FINISHED PLAN

DE014

COSFLYING LAKE

MAIN DIESEL ENGINE (4/5)

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DWG. NO. M-11(4/5)

MANAGER	Qu Rongze
CHIEF	Wu Guangming
CHECKED	Liu Juntao
DRAWN	Qu Yonghua
DATE	

SCALE: ----

JOB NO. : -----

DESIGN DEPARTMENT
DALIAN COSCO KHI
SHIP ENGINEERING CO., LTD.

DALIAN CHINA

SHEETS (INCL. COVER)

	Drawing No. 图号或型号	DESCRIPTION 名称
➢	D6515623-2.0	DIAGRAM OF MANOEUVERING SYSTEM 柴油机操纵系统原理图
➢	4H-13985 3H-14838 3H-15042 4H-14213	JUNCTION BOX ON M.E.CONNECTING DRAWING & ARR.OF M/E.ELECT.EQUIPMENT 主机接线图和电气设备布置图
➢	4H-12760	WIRING DIAGRAM FOR ENGINE CONTROL SYSTEM 主机控制系统原理图
➢	BOND	STARTER PANEL FOR AUX.BLOWER 辅助风机起动器说明书
➢	BOND	STARTER PANEL FOR TURNING GEAR 盘车机起动器说明书
➢	BOND	STARTER PANEL FOR START-UP PUMP 起动泵起动器说明书
➢	5570701-9 5557496-3	LDCL WIRING DIAGRAM LDCL 系统接线图

CONTENTS

文 件 说 明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W 7S80ME-C MK9.2
	台 份 Set No.	3#
	工程编号 Engine No.	CE0290T
	船 厂 Shipyard	DACKS
	船 号 Hull No.	DE014
	船级社 Classification Society	LR+CCS

MANOEUVR. AIR SYSTEM

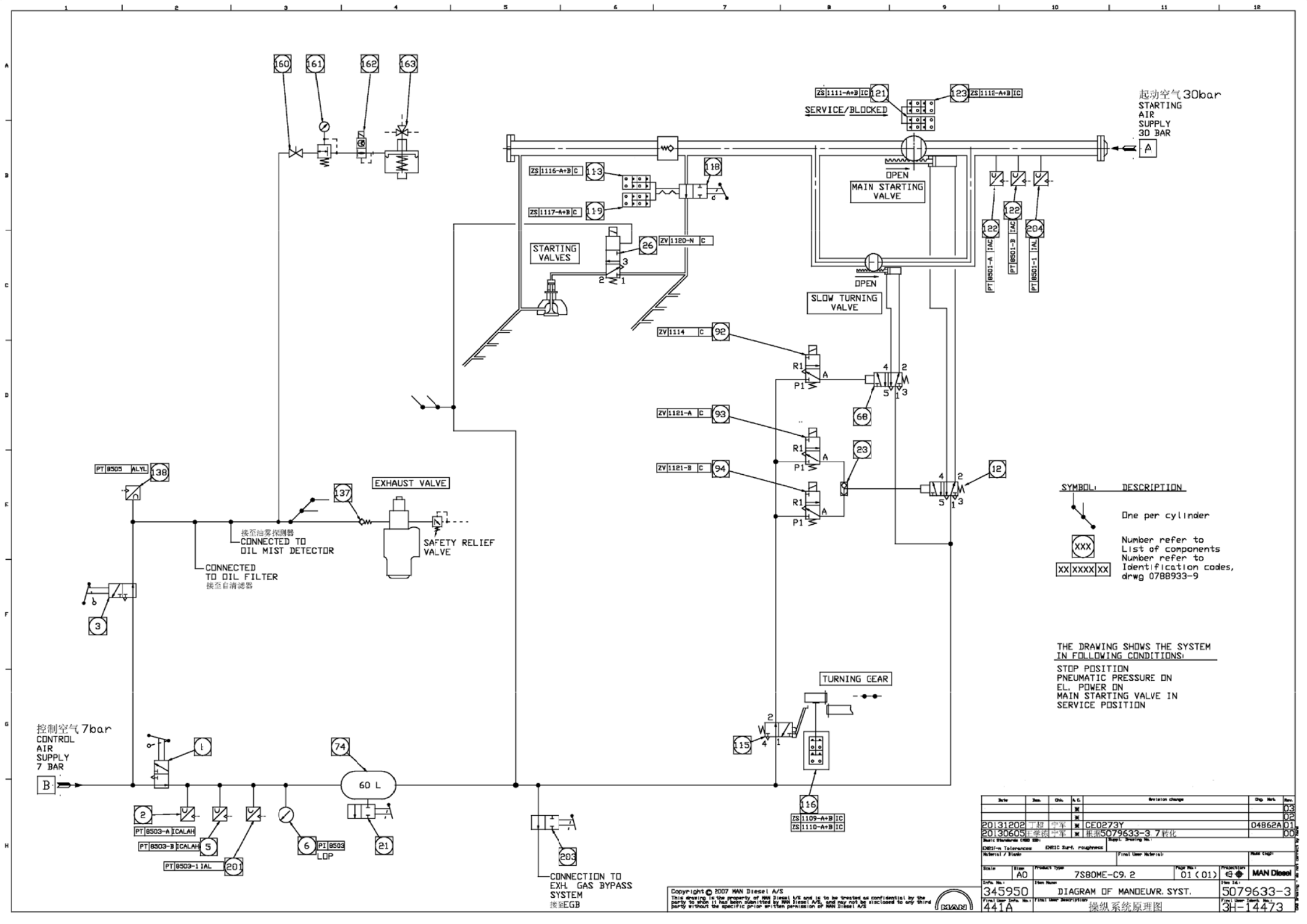
操纵系统

	5
	4
	3
	2
	1

修 改 说 明
Corrected Description

						5
						4
						3
						2
						1
杨钟伟2014-05-15	刘欣2014-05-15	焦雷2014-05-15				0
编 制 Compiled	校 对 Checked	审 核 Confirmed	审 定 Approved	会 签 Countersigned	批 准 Authorized	版本号 C.No.
被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页数 Pages 1	总页数 Total Pages	22

上海中船三井造船柴油机有限公司 CSSC-MES Diesel Co., Ltd.	文件编号 Document No.	D6515623-2.


起动空气30bar
STARTING AIR SUPPLY 30 BAR
SERVICE/BLOCKED
MAIN STARTING VALVE
OPEN
STARTING VALVES
SLOW TURNING VALVE
EXHAUST VALVE
SAFETY RELIEF VALVE
CONNECTED TO OIL MIST DETECTOR
接至油雾探测器
CONNECTED TO OIL FILTER
接至自清滤器
控制空气7bar
CONTROL AIR SUPPLY 7 BAR
60 L
TURNING GEAR
CONNECTION TO EXH. GAS BYPASS SYSTEM
接至EGB
SYMBOL: DESCRIPTION
One per cylinder
Number refer to List of components
Number refer to Identification codes, drwg 0788933-9
THE DRAWING SHOWS THE SYSTEM IN FOLLOWING CONDITIONS:
STOP POSITION
PNEUMATIC PRESSURE ON
EL. POWER ON
MAIN STARTING VALVE IN SERVICE POSITION
Copyright © 2007 MAN Diesel A/S
MAN Diesel
7S80ME-C9.2
DIAGRAM OF MANOEUVR. SYST.
操纵系统原理图
345950
5079633-3
3H-14473
441A
CE0273Y
04862A
01
02
03
00

Info. No.:	Description:	Ident. No.:
345955	DESCRIPTION OF ENGINE MAN.SYSTEM	5064123-3
Final User Info. No.:	Final User Description: 操纵系统说明	Final User Ident. No.: 4H-13996
Scale: / Size: A4	Type: 7S80ME-C9.2	Page No.: 01 (05)

CSSC-MES

Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
20130605	王学栋	宁军		*	根据5064123-3.1转化	0
20131202	丁超	宁军		*	CE0273Y	1
				*		2
				*		3
				*	Replaced by Ident. No.:	4

SYMBOL DESCRIPTION

气动阀件符号说明

The symbols consist of one or more square fields.The number of fields corresponds to the number of valve positions.The connecting lines are connected to the field which represents the valve position at a given moment of the process.

气动阀件符号包括一个或多个方框，方框的数量对应阀件的未知数，与连接线相连的方框表示在一定时刻下此阀件的位置。

The change of position is conceived to take place by the fields being displaced at right angles to the connecting lines,which are assumed to have a stationary position on the paper.A short cross line on a broken line indicates a closed path.

阀件的位置切换可想象为假定连接线位置固定而方框相对连接线移动，T表示此通路关闭。

Example of pressre controlled two-position valve with spring return:

下图为带弹簧复位的压力控制二位阀的示例:

1=Initial position初始位置（弹簧复位）

2=Changed position切换之后的位置（有控制空气）

POS.1:BALL VALVE 球阀

For manual cutting-off of control air supply.

手动切断控制空气气源。

CAD Drawing - do not correct by hand

POS.2:PRESSURE TRANSMITTER 压力传感器

For alarm if control air supply pressure is too low.
Alarm point 5.5bar.控制空气低压报警，设定值5.5bar.
For alarm if control air pressure is not vented during FINISHED WITH ENGINE.
Alarm point 0.5bar.控制空气完成未放大气报警，设定值0.5bar.

POS.3:BALL VALVE 球阀

For manual cutting-off of air to exhaust valve.
手动切断排气阀空气弹簧进气。

POS.5:PRESSURE TRANSMITTER 压力传感器

For alarm if control air supply pressure is too low.
Alarm point 5.5bar.控制空气低压报警，设定值5.5bar.
For alarm if control air pressure is not vented during FINISHED WITH ENGINE.
Alarm point 0.5bar.控制空气完成未放大气报警，设定值0.5bar.

POS.6:PRESSURE GAUGE 压力表

Indicates control air supply pressure.
控制空气压力指示。

POS.12:TWO-POSITION,FIVE-WAY VALVE 二位五通阀

Controls main starting valve(open or closed).
控制主起动阀打开或关闭。

POS.21:BALL VALVE 球阀

For draining water from manoeuvring system.
空气瓶内冷凝水泄放。

POS.23:DOUBLE NON-RETURN VALVE(CHANGE OVER VALVE(OR)) 双向止回阀

POS.26:TWO-POSITION,THREE-WAY VALVE 二位三通阀

Prevents air inlet to starting air distributor in the event of leaking main starting valve.
Allows air to enter during start.
主起动阀泄露时防止空气进入起动空气分配器，而在起动时允许空气进入。

CAD Drawing - do not correct by hand

POS.68:TWO-POSITION,FIVE-WAY VALVE 二位五通阀

Controls slow-turning valve(open or closed).

控制慢转阀打开或关闭。

POS.74:AIR RECEIVER 60L 60L空气瓶

Reduces time lags in the manoeuvring system.

减少操纵系统延时。

POS.92:TWO-POSITION,THREE-WAY SOLENOID VALVE 二位三通电磁阀

Control pilot signal to two-position,five-way valve(68).Slow-turning.

送控制空气至二位五通阀(68)，实现慢转。

POS.93:TWO-POSITION,THREE-WAY SOLENOID VALVE 二位三通电磁阀

Control pilot signal to two-position,five-way valve(12).Main starting valve.

送控制空气至二位五通阀(12)，实现主起动阀打开或关闭。

POS.94:TWO-POSITION,THREE-WAY SOLENOID VALVE 二位三通电磁阀

Control pilot signal to two-position,five-way valve(12).Main starting valve.

送控制空气至二位五通阀(12)，实现主起动阀打开或关闭。

POS.113:SWITCH 限位开关

Gives signal to Main Operating Panel when shut-off valve(118)is in service position.

当球阀(118)处于打开位置时送信号至MOP。

POS.115:TWO-POSITION,THREE-WAY VALVE 二位三通阀

Blocks start possibility when turning gear is engaged.

盘车机啮合时起动联锁。

POS.116:SWITCH 限位开关

Gives indication on bridge if turning gear is engaged.

盘车机啮合时送出信号，用于桥楼显示。

POS.118:SHUT-OFF VALVE 球阀

For manual cutting-off of control air to starting air distributor.

手动切断起动电磁阀进气。

POS.119:SWITCH 限位开关

Gives indication on bridge when starting air distributor is blocked.

当球阀(118)处于关闭位置时送出信号，用于桥楼显示。

POS.121:SWITCH 限位开关

Gives signal to telegraph system/communication system when main starting valve is blocked.

主起动阀处于闭锁位置时送信号至车钟系统或通信系统。

CAD Drawing - do not correct by hand

POS.122:SENSOR FOR STARTING AIR PRESSURE 压力开关

Blocks start possibility from bridge if starting air pressure is too low.Switch point 15 bar.

起动空气低压时桥楼起动联锁，设定值15bar。

POS.123:SWITCH 限位开关

Gives signal to Main Operating Panel to indicate whether main sarting valve is in service position or blocked position.

送信号至MOP显示主起动阀处于闭锁位置或工作位置。

POS.137:NON-RETURN VALVE 止回阀

Prevents back-flow of air from exhaust valve.

防止排气阀空气弹簧空气回流。

POS.138:PRESSURE SWITCH/TRANSIMITTER 压力开关或压力传感器

For alarm if pressure is too low.Set point 5.5bar.

排气阀空气弹簧进气压力低报警，设定值5.5bar。

POS.160:BALL VALVE 球阀

For manual cutting-off control air supply to the LDCL system.

手动切断LDCL系统控制空气进气。

POS.161:FILETER REGULATOR 减压阀

Reduces control air pressure to 4bar.

将控制空气压力减至4bar。

POS.162:I/P CONVERTOR I/P转换器

Control pilot pressure to 3-way control valve.

控制进入三通控制阀的空气压力。

POS.163:3-WAY CONTROL VALVE 3通控制阀

Control the cooling water temperature with variable set point,depending on engine load.

根据主机负荷控制冷却水温度。

POS.201:PRESSURE TRANSMITTER 压力传感器

For alarm if pressure is too low.Set point 5.5bar.

控制空气进气压力低报警，设定值5.5bar。

CAD Drawing - do not correct by hand

POS.203:SHUT-OFF VALVE 球阀

For manual cutting-off of control air to EGB.

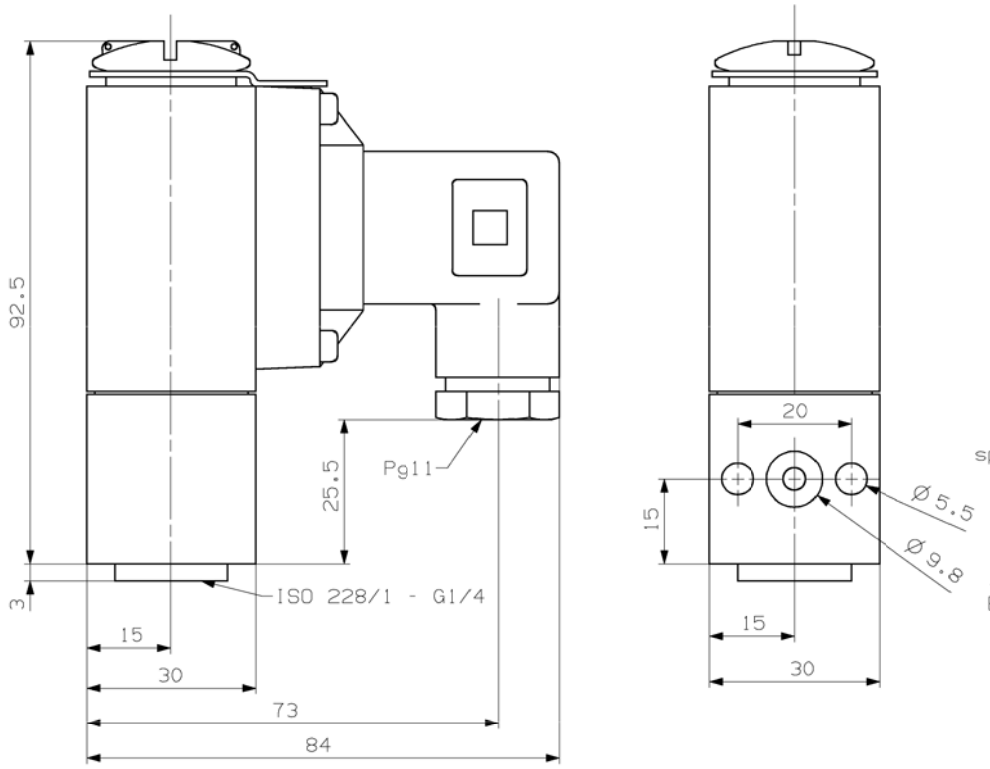
手动切断EGB进气。

POS.204:SENSOR FOR STARTING AIR PRESSURE 压力传感器

For alarm if pressure is too low.Set point 15bar.

控制空气进气压力低报警，设定值15bar。

CAD Drawing - do not correct by hand



POS	Range (bar)	Type no.	Order no.	Part no.
1	0 - 4	MBS5100-1611-1DB04-0	060N1034	1164519-5
2	0 - 6	MBS5100-1811-1DB04-0	060N1035	1164520-5
3	0 - 10	MBS5100-2011-1DB04-0	060N1036	1164521-7
4	0 - 16	MBS5100-2211-1DB04-0	060N1037	1164522-9
5	0 - 40	MBS5100-2611-1DB04-0	060N1039	1164523-0

性能
Performance

Hysteresis and repeatability		< 0.1% FS
Max. overload pressure	Press. range FS≤ 300 bar	min. 2 x FS
	Press. range FS> 300 bar	min. 1.5 x FS

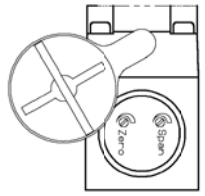
电气特性
Electrical specifications

Output signal		4 - 20 mA
Supply voltage		10 to 30V d.c.
Current limitation (Linear output sign. up to 1.5xnom.range)		28 mA

环境条件
Environmental conditions

EMC	Emission	EN 50081-1
Temperature	Operation	-40 TO 85° C
Enclosure		IP 65
Vibration stability	Sinusoidal 20g/ 20Hz-2kHz	IEC 68-2-6
Shock resistance	Shock 500g/ 1ms, 100g/ 6ms	IEC 68-2-27
	Free fall	IEC 68-2-32

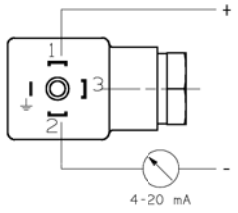
Adjustment 调整

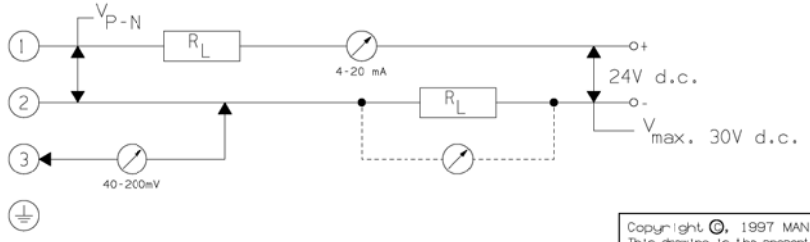


Span: -5...+ 5% FS
Zero: -5...+20% FS

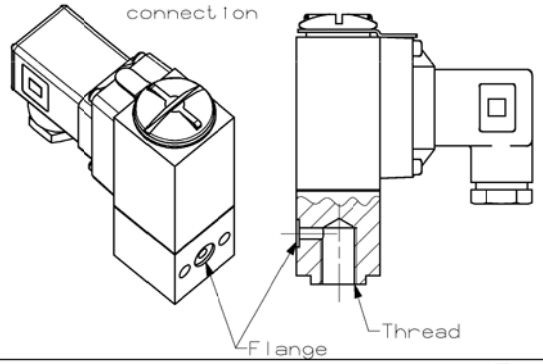
电路连接
Electrical connection

1: Supply +
2: Supply -
3: Function test
⏚ Screen: connected to enclosure



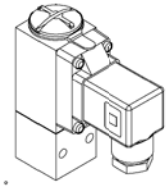


机械连接
Mechanical connection



制造商或类似厂商
126 Make or similar: 1022

认可:
APPROVAL: LRS, DnV, GL, RINA, ABS, BV, NKK, Polski Register, USSR Register, KRS.



Basic Standards (MBD SB) & Suppl. Drawing No.:	EN21C Surf. roughness	Projection:	Material / Blank:
	EN21F-m Tolerances	Mass (kg):	Final User Material: 制造商

Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
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				-		8
				-		7
				-		6
				-		5
				-		4
				-		3
				-		2
				-		1
20100930	王永	宁军		-	根据1161866-4.2转化	0

Similar Drawing No.: | Replacement for Ident. No.:

Scale:	Size:	Type:	Page No.:	
1.5:1	A2		01 (01)	MAN B&W Diesel A/S

Info. No.:	Description:	Ident. No.:
796131	PRESSURE TRANSDUCER	1161866-4
Final User Info. No.: 441H	Final User Description: 压力传感器	Final User Ident. No.: 2H-03883

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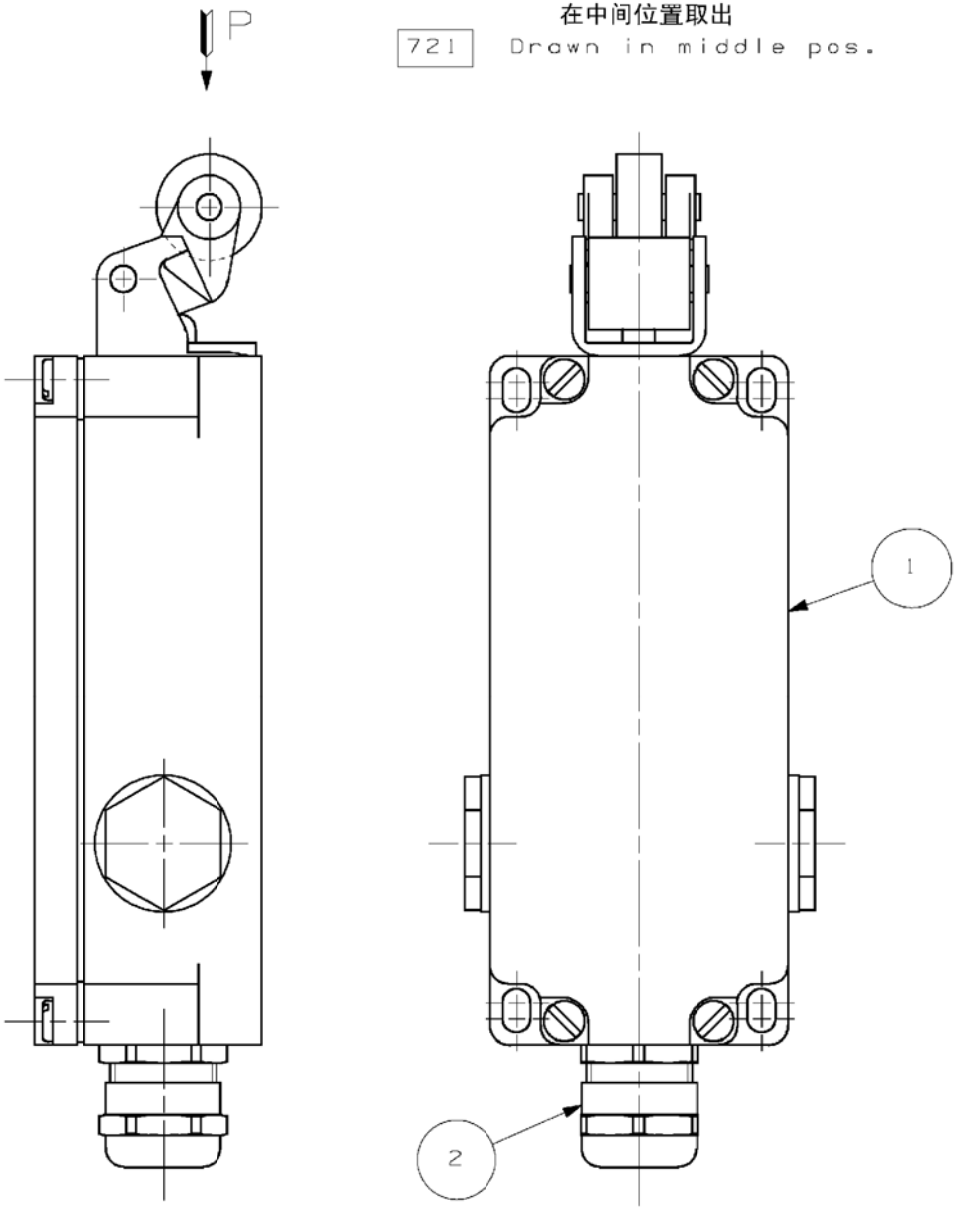
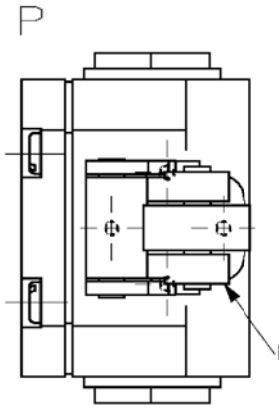
CAD Drawing - do not correct by hand - UG Drawing

9707A2/1



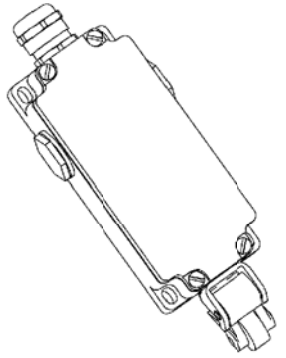
721 在中间位置取出 Drawn in middle pos.



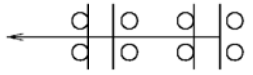
可调范围
Lever adjustable 4x90°

接触器安装方向见布置图
For fitting of lever direction: See arrangement drawing

制造厂或类似厂商
126 Make or similar: 1100
455 Type 型号 : MK 017-22Y



接线柱
TERMINALS



10A, 380V

Basic Standards (MBD SB) & Suppl. Drawing No.:				EN21C Surf. roughness	Projection:	Material / Blank:
				EN21F-m Tolerances	Mass (kg): 0.440	Final User Material:

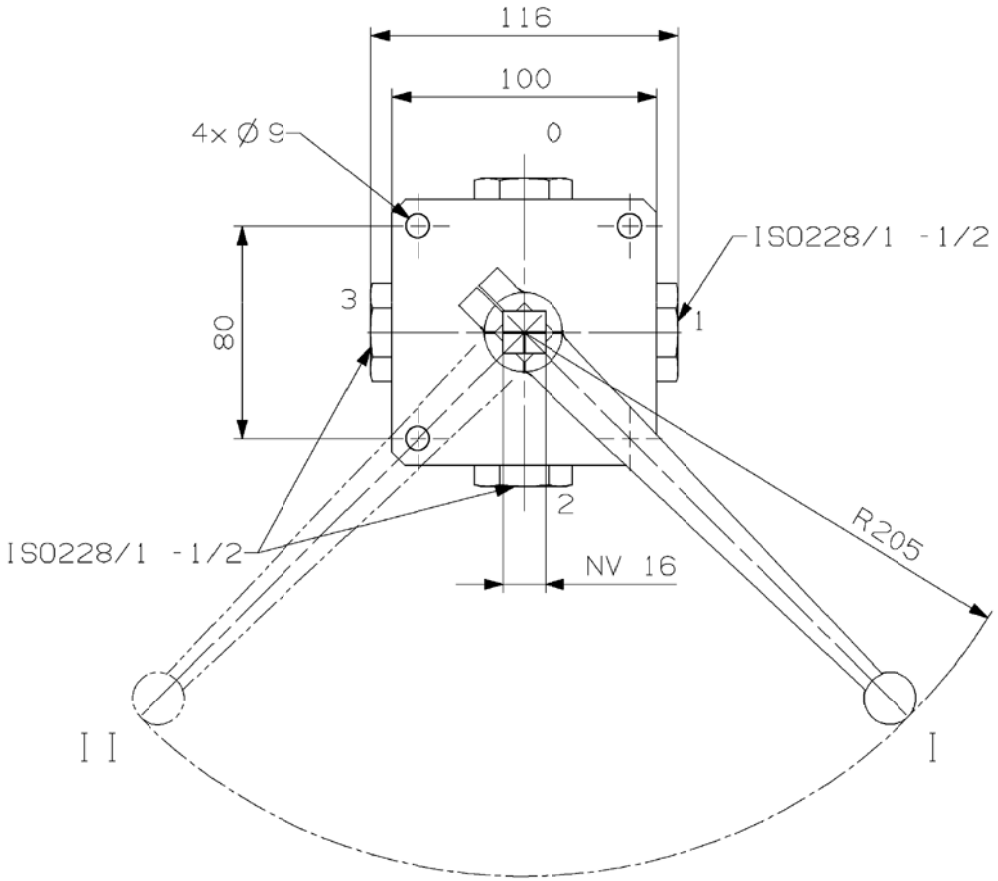
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
				-	Replaced by Ident. No.:	9
				-		8
				-		7
				Z3		6
				Z4		5
				Z3		4
				Z3		3
				Z4		2
				Z4		1
2007-7-24	周幸义	费菲		-		0

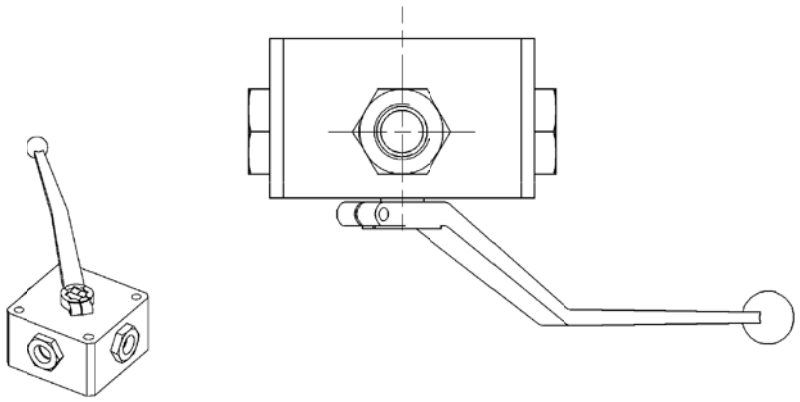
Similar Drawing No.: 0459195-2 Replacement for Ident. No.:

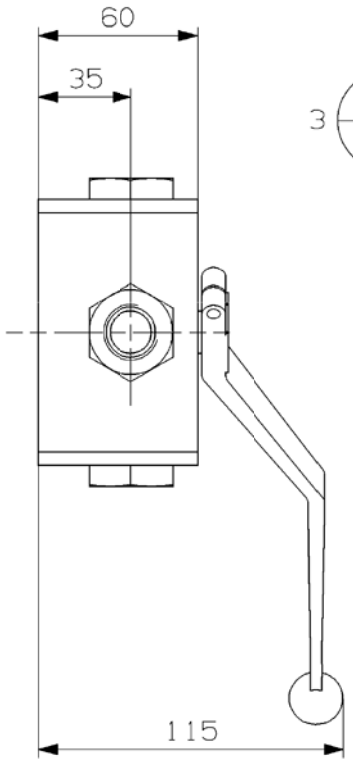
Scale: 1:1	Size: A3	Type:	Page No.: 01 (01)	CSSC-MES
Info. No.: 698013	Description: SWITCH 111-...VOLTS			Ident. No.: 0547439-8
Final User Info. No.: 445A	Final User Description: 接触器			Final User Ident. No.: 3H-00003

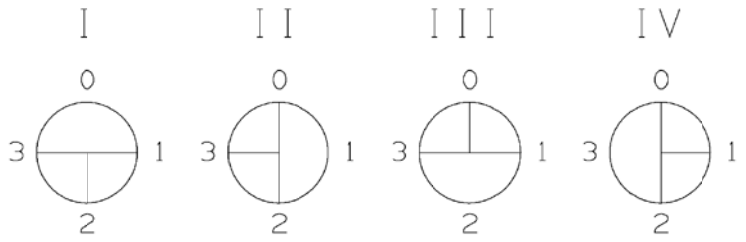
CAD Drawing - Do not correct by hand - Original Drawing

9707A3/1









126 制造厂或类似厂商
Make or similar: 1212

455 型号
Type: DHG-T 200.716

326 额定压力
Nominal pressure: 200 bar

通经
Free passage: 16 mm

Basic Standards (MBD SB) & Suppl. Drawing No.:	EN21C Surf. roughness	Projection:	Material / Blank:
	EN21F-m Tolerances	Mass (kg): 4.500	Final User Material: 制造商

Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
				-	Replaced by Ident. No.:	9
				-		8
				-		7
				-		6
				-		5
				-		4
				-		3
				-		2
				-		1
20090113	丁超	宁军		-	根据1300631-4.3转化	0

Similar Drawing No.: | Replacement for Ident. No.:

Scale: 1:2	Size: A3	Type:	Page No.: 01 (01)	MAN B&W Diesel A/S
Info. No.: 677204		Description: BALL VALVE-SCREWED CONN.		Ident. No.: 1300631-4
Final User Info. No.: 441H		Final User Description: 球阀		Final User Ident. No.: 3H-03456

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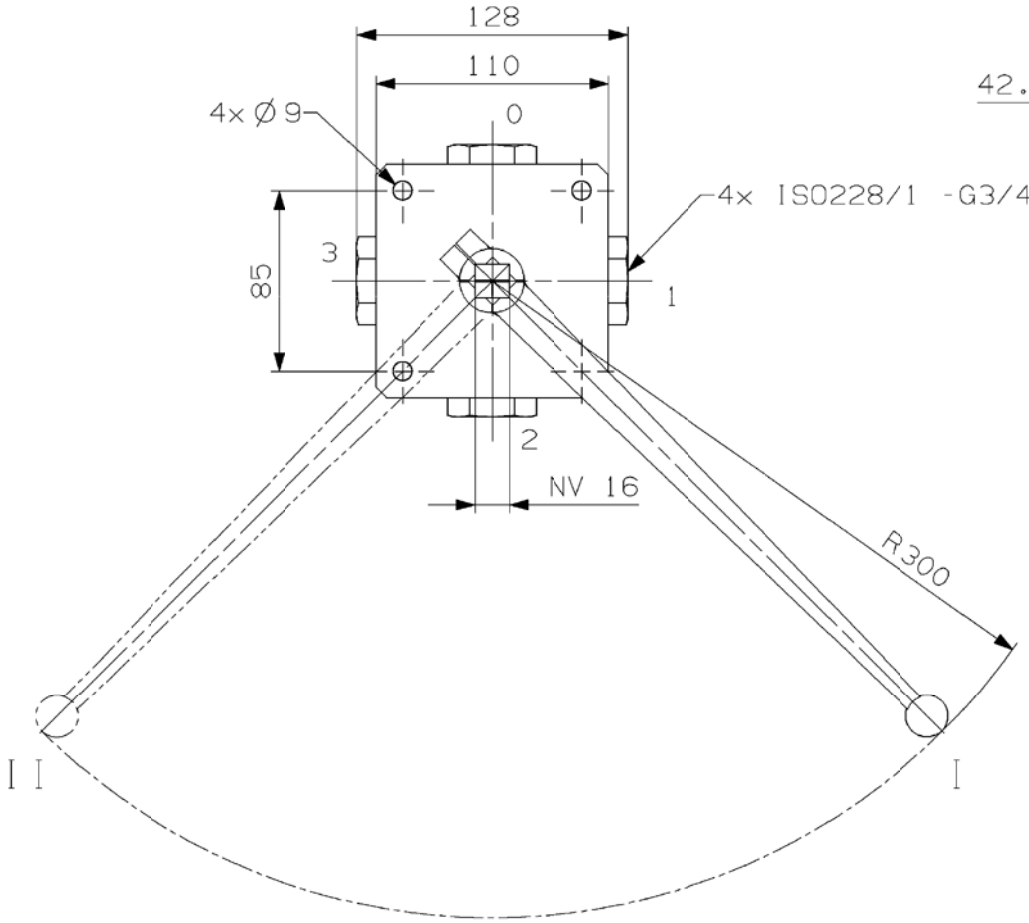
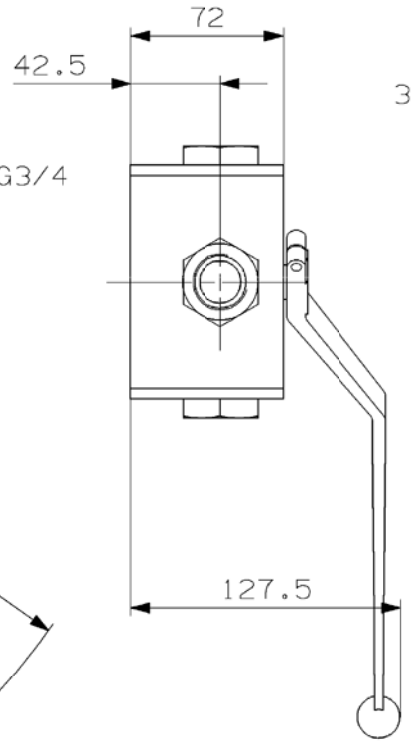
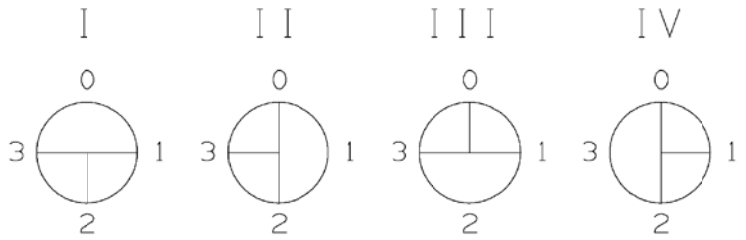
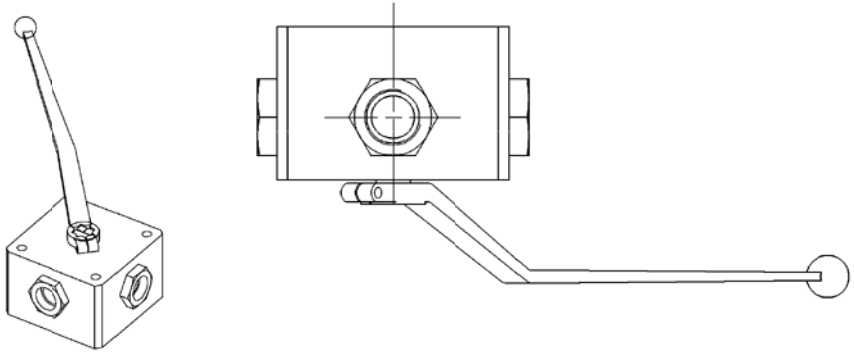
CAD Drawing - Data Kept by Contact - do not Hand Drawing







126	制造厂或类似厂商 Make or similar: 1212
455	型号 Type: DHG-T 200.720
326	额定压力 Nominal pressure: 200 bar
	通径 Free passage: 20 mm



Basic Standards (MBD SB) & Suppl. Drawing No.:	EN21C Surf. roughness	Projection:	Material / Blank:
	EN21F-m Tolerances	Mass (kg): 7.000	Final User Material: 制造商

Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
				-	Replaced by Ident. No.:	9
				-		8
				-		7
				-		6
				-		5
				-		4
				-		3
				-		2
				-		1
20100930	王永	宁军		-	根据1473842-5.3转化	0

Similar Drawing No.: 1300631-4.		Replacement for Ident. No.:		
Scale: 1:2.5	Size: A3	Type:	Page No.: 01 (01)	MAN B&W Diesel A/S
Info. No.: 677204		Description: BALL VALVE-SCREWED CONN.		Ident. No.: 1473842-5
Final User Info. No.: 441H		Final User Description: 球阀		Final User Ident. No.: 3H-06537

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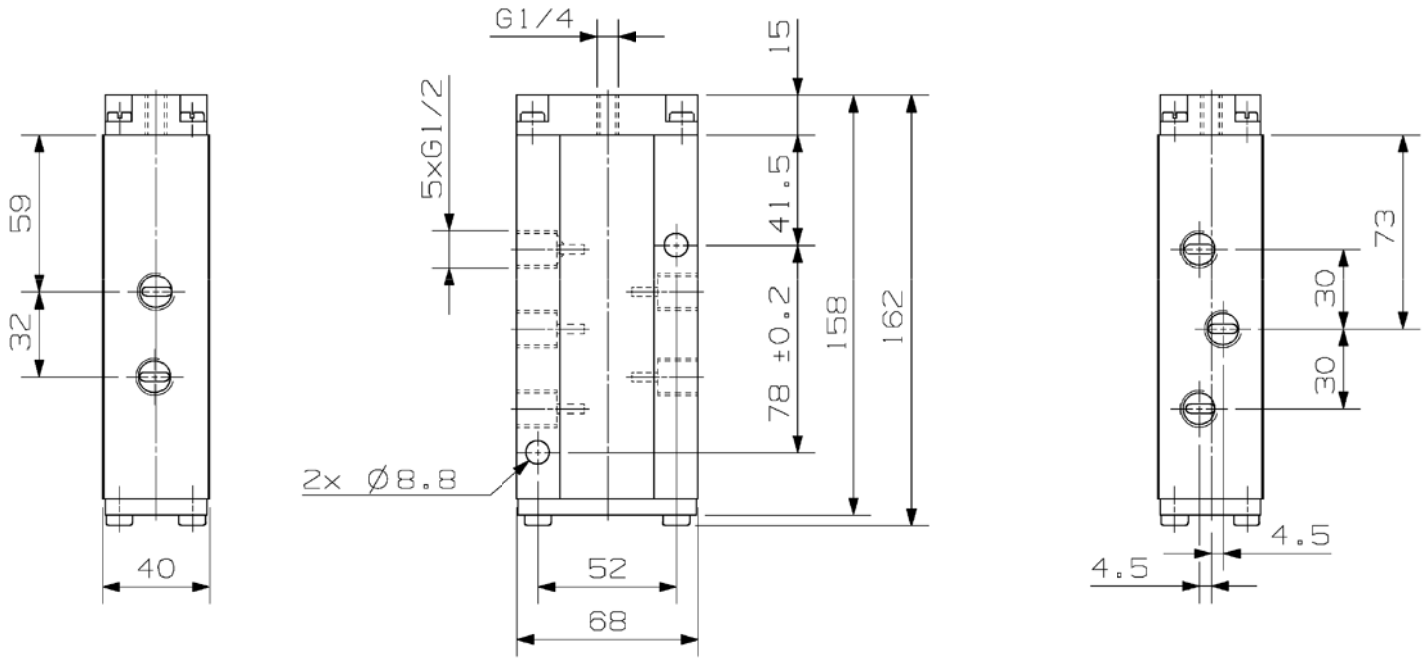
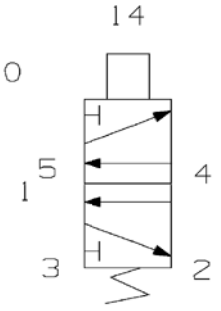
CAD Drawing - Use Drawing by hand - do not control



125	制造商 Make: 1125
455	型号 Type: ~~571 100 030 0~~ 371 075 010 0
002	工作压力 Working pressure: max. 10 bar min. 2 bar
454	温度 Temperature: -25 - +70° C
619	介质 Medium: Air
	接口 Connection: ISO228/1

△1



Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
20110706	王学栋	宁军			MAN图号:1210299-6-->1241867-1,阀件型号改正	03166	01
20101009	王学栋	宁军					00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness

similar. Drawing No.: 1390841-4

Material / Blank:

Final User Material: 制造商

Mass (kg): 3.173

Scale: 1:2 | Size: A3 | Product Type: TYPE | Page No.: 01 (01) | Projection:

Info. No.: 677086

Item Name: 5/2-WAY VALVE △1

Item Id.: 1241867-1

Final User Info. No.: 441M

Final User Description: 二位五通阀

Final User Ident. No.: 3H-06594

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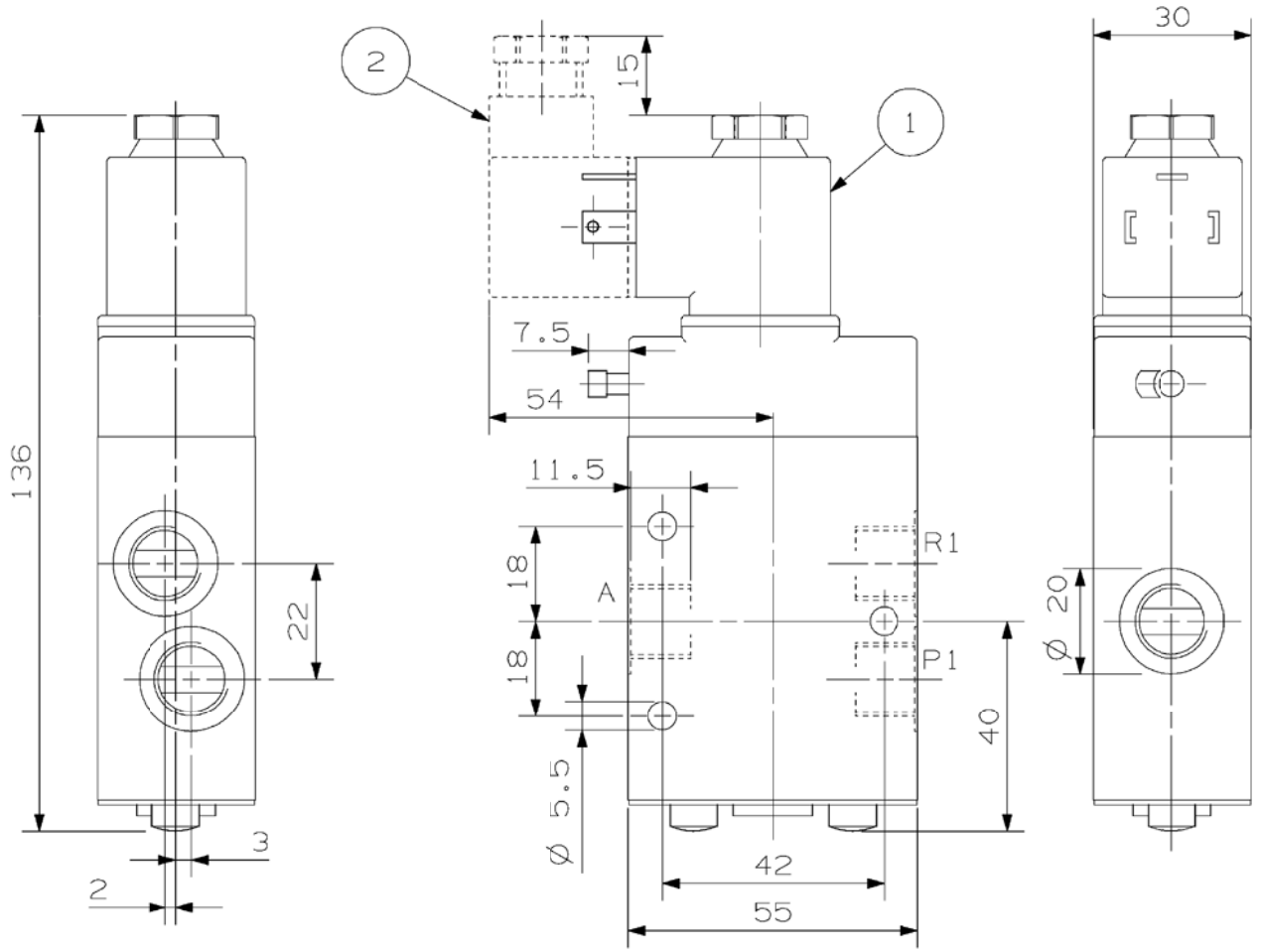
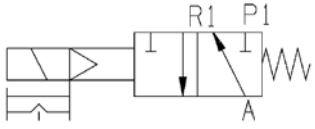
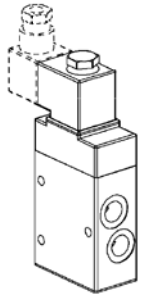
MAN

CAD Drawing - do not correct by hand - Drawing CAD



1	125	制造商 Make: 1125
	455	型号 Type: 372 352 222 0
	002	工作压力 Working pressure: Max. 10 bar min. 3 bar
	331	公称直径 Nominal diameter: ND 7
	454	温度 Temperature: -25°C to +80°C
	619	介质 Medium: Air
		接口 Connection: M14x1.5
		电压 Voltage: 24V DC
		额定电流 Nominel current: 0.190 A
		防护等级 Protection: IP65
2	455	直角连接 Angel connection: 型号 Type: 894 101 610 2





Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
20101009	王学栋	宁军					00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness

similar. Drawing No.:

Material / Blank:

Final User Material: 制造商

Mass (kg): 0.744

Scale:	Size:	Product Type:	Page No.:	Projection:
1:1	A3	S60MEC	01 (01)	

Info. No.:	Item Name:	Item Id.:
677051	3/2-WAY SOLENOID VALVE	0557611-5

Final User Info. No.:	Final User Description:	Final User Ident. No.:
441M	二位三通电磁阀	3H-06595

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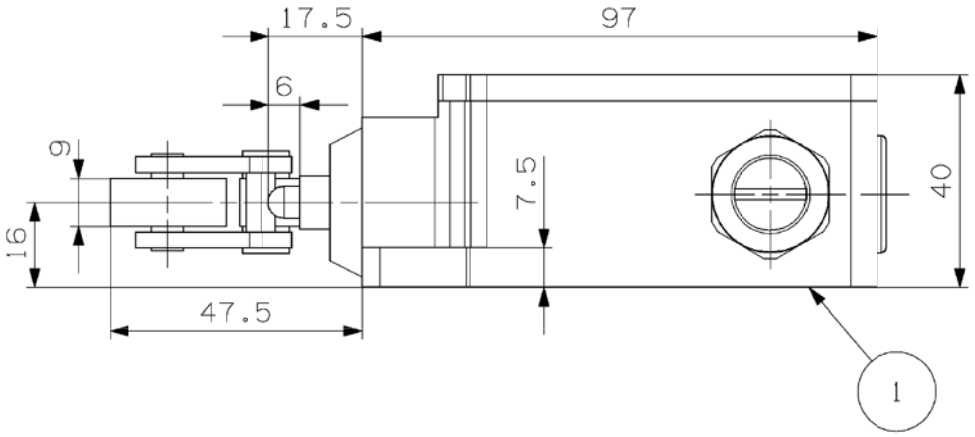
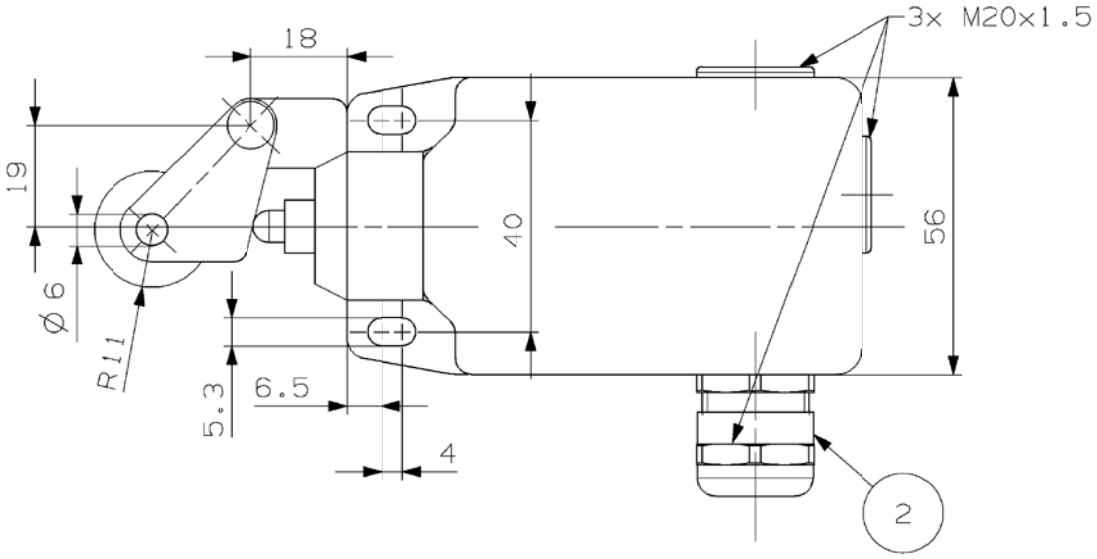
MAN

CAD Drawing - do not correct by hand - UG Drawing

A3p10703





制造厂或类似厂商
126 Make or similar: 1104

Pos. no. 1

型号
455 Type: 3SE2303-1E

温度
454 Temperature: -40° - +85°

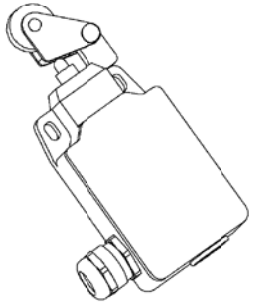
防护等级 Way of protection: IP54

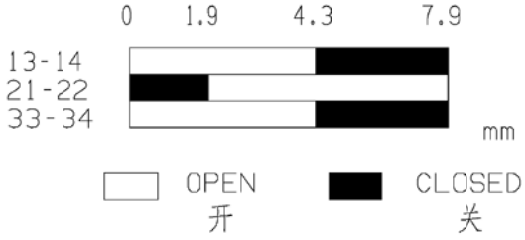
最大直流电压 Max. DC: 600V

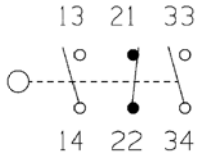
最大交流电压 Max. AC: 500V

Pos. no. 2

电缆填料函规格 Cable glands M20x1.5







Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
							03
							02
							01
20101010	王学栋	宁军					00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness

similar. Drawing No.:

Material / Blank:

Final User Material: 制造商

Mass (kg): 0.379

Scale: 1:1 | Size: A3 | Product Type: ME | Page No.: 01 (01) | Projection:

Info. No.: 698003 | Item Name: SWITCH 0-110 VOLTS | Item Id.: 1360036-2

Final User Info. No.: 441M | Final User Description: 限位开关 | Final User Ident. No.: 3H-06640

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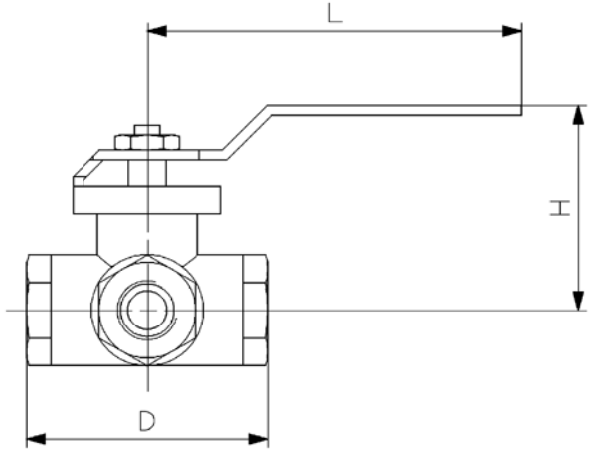
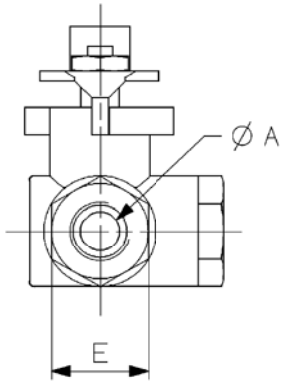
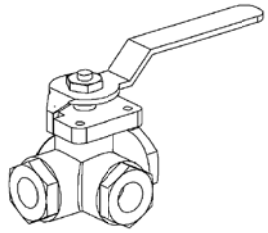
CAD Drawing - do not correct by hand - plan by MAN Diesel

POS	Part. No.:	Size	A	B	C	D	E	H	L	M	N
1	5042558-7	1/4"	11	19.7	35	68.5	27.2	58	106	42	M5x0.8
2	5042559-9	3/8"	11	19.7	35	68.5	27.2	58	106	42	M5x0.8
3	5042560-9	1/2"	12.7	22.9	40	75	26.2	61	138	42	M5x0.8
4	5042561-0	3/4"	16	28.5	46	86.5	33	74	138	50	M6x1.0
5	5042562-2	1"	20	32.9	53	103	39.2	81	162	50	M6x1.0
6	5042563-4	1-1/4"	25	37.7	58	115	53	88	162	50	M6x1.0
7	5042564-6	1-1/2"	32	42.2	64	125	56	104	220	70	M8x1.25
8	5042565-8	2"	38.1	50.6	75	146	70	110	220	70	M8x1.25





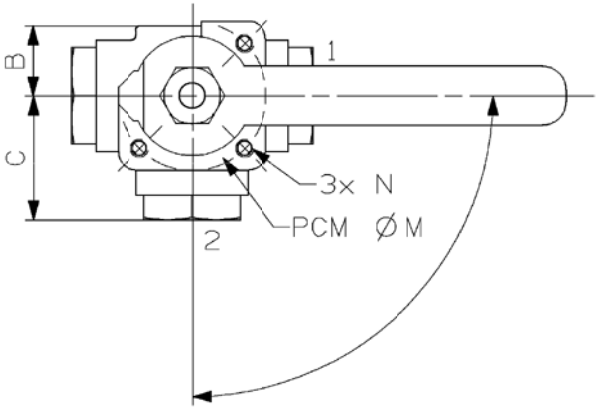


126 制造厂或类似厂商
Make or similar. 1230

455 型号
Type: Serie 9241 with L port.

744 最大压力
Max. pressure: 50 bar.

081 工作温度
Working temperature: -30° C...max +200° C



Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
20101010	王学栋	宁军					00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness
similar. Drawing No.:
Material / Blank:
Final User Material: 制造商
Mass (kg): 0.320
Scale: ~ Size: A3 Product Type: ME Page No.: 01 (01) Projection:
Info. No.: 777204 Item Name: Ball valve, screwed connection Item Id.: 5042567-1
Final User Info. No.: 441M Final User Description: 球阀 Final User Ident. No.: 3H-06641

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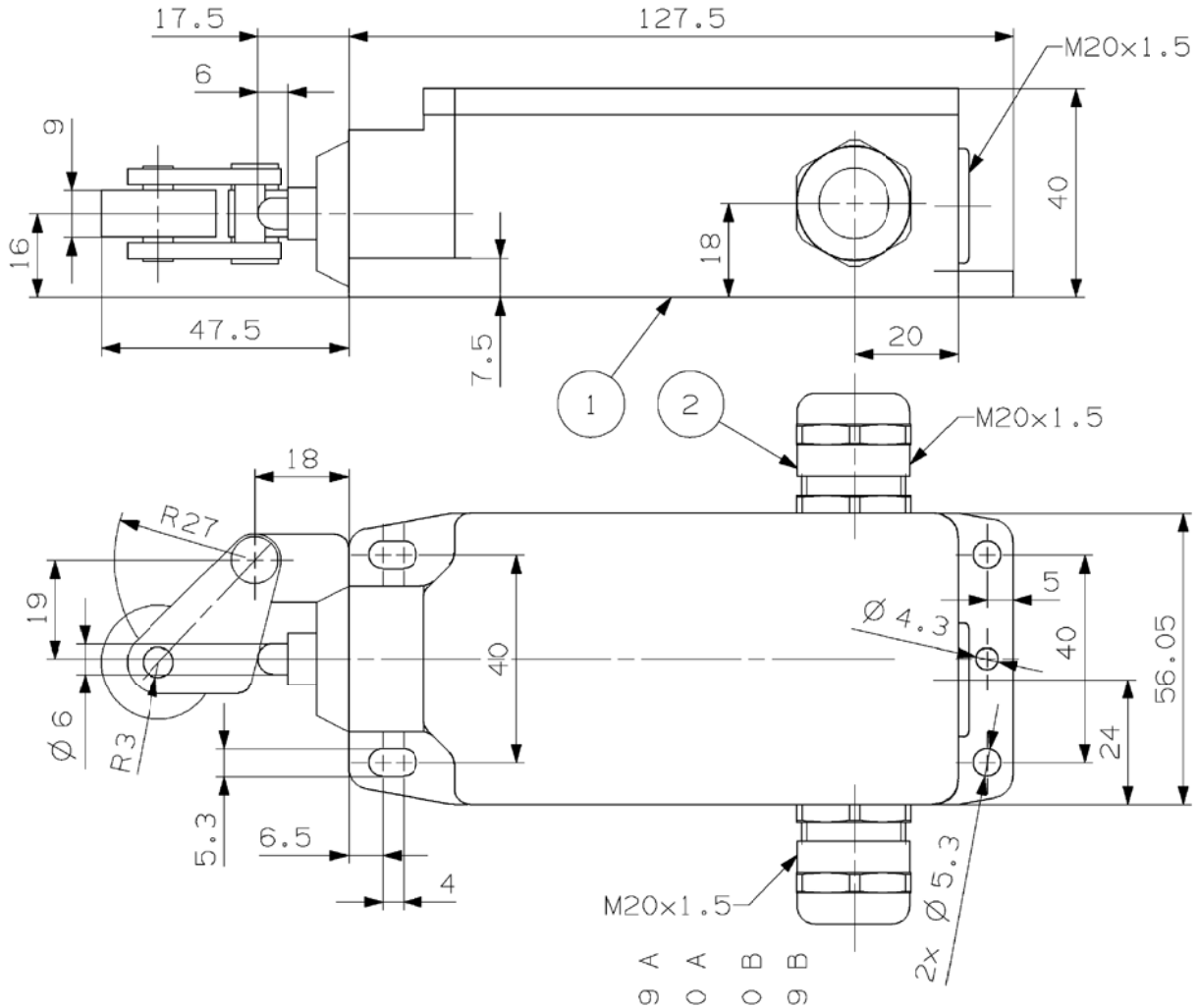
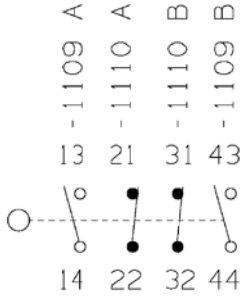
MAN

CAD Drawing - do not correct by hand - UG Drawing

A3p10703





OPEN 开 CLOSED 关

制造商或类似厂商

126 Make or similar: 1104

Pos. no. 1

型号

455 Type: box 外壳 3SE2 404-0A

wheel 滚轮 3SX3 275

454 Temperature: 温度 -40° - +85°

防护等级 Way of protection: P54

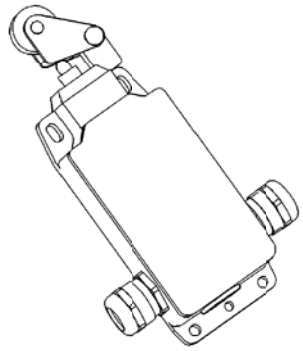
最大直流电压 Max. DC: 600V

最大交流电压 Max. AC: 500V

Pos. no. 2

Cable glands M20x1.5

电缆填料函型号



Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
						03
						02
						01
20101025	贺文彬	陆海刚		1747151-7		00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness

Suppl. Drawing No.:

Material / Blank:

Final User Material:

Mass (kg):

Scale:	Size:	Product Type:	Page No.:	Projection:
1:1	A3	6S60ME-C	01 (01)	MAN Diesel

Info. No.:	Item Name:	Item Id.:
698003	SWITCH 0-110 VOLTS	1747151-7

Final User Info. No.:	Final User Description:	Final User Ident. No.:
132A	开关	3H-06779

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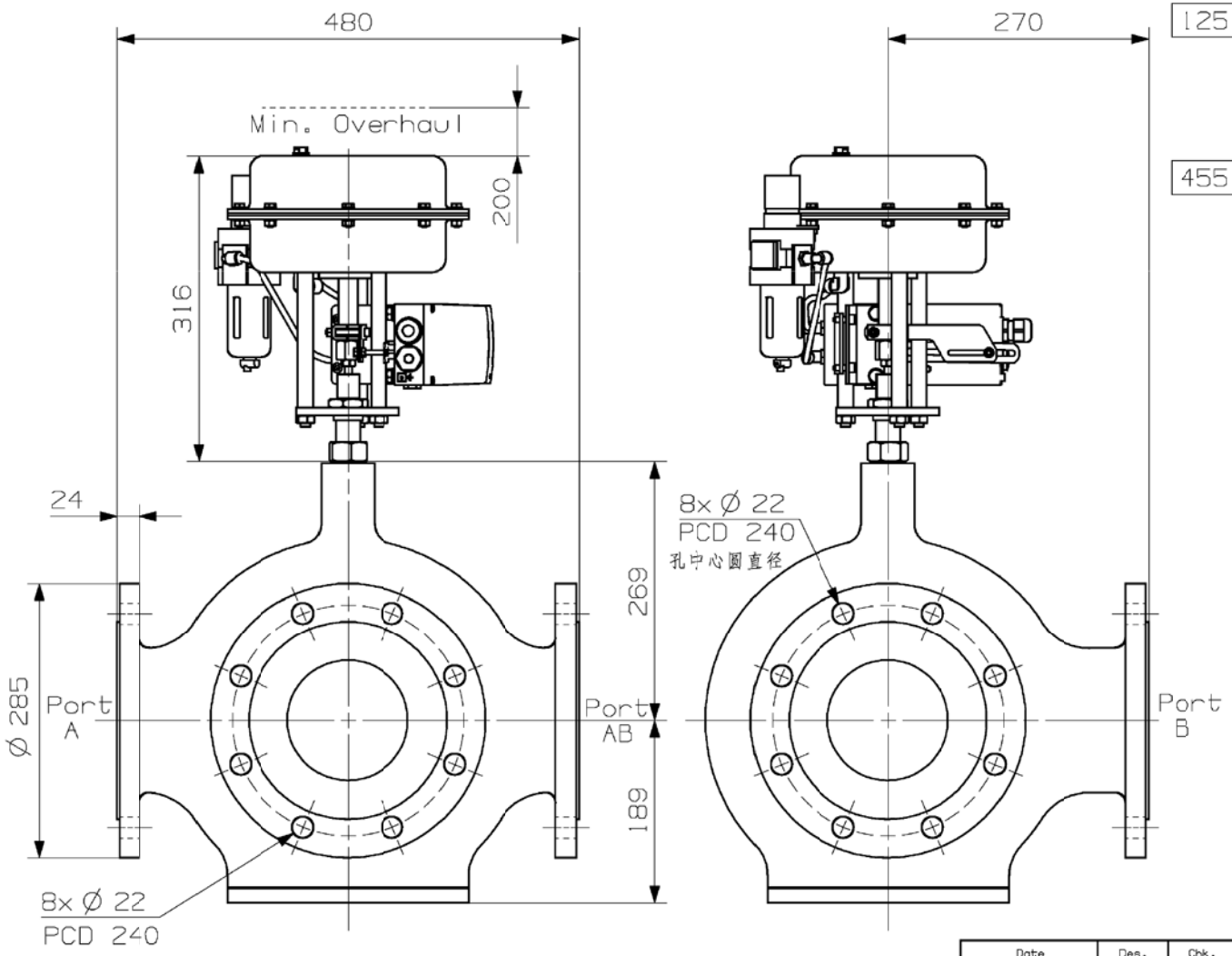
CAD Drawing - plan på treccc nur do - Drawing US



制造商

125 Make: 1736
Clorius Controls A/S
Tempovej 27
DK-2750 Ballerup
Denmark

型号

455 Type G3F,PN16,DN150

Valve Body	:	Nodular Cast Iron EN-GJS-400-15
Seats & Cone	:	Gun Metal RG 5 CuSn5Zn5Pb5-C
Spindle	:	Stainless Steel (W.no. 1.4436)
Nominal Pressure	:	PN16
Seating	:	Two Balanced single seat
Valve Char.	:	Almost Linear
Temp. Range	:	Max.120° C
Flanges Drilled According to	:	EN 1092-2 PN 16
Counter Flanges	:	DIN 2633
Actuator	:	S25SC+H
Air Supply	:	Max.6bar,Min.3.2bar
Air Supply Conn.	:	1/8" RG Female
Dry Filtrated Air Positioner	:	Siemens

Spring close configuration
Air loss: Port A closes, Port B opens

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
				-			01
20131108	刘啸阳	周幸义		-	CE0273		00

Basic Standards (MBD SB): - EN21F-m Tolerances - EN21C Surf. roughness
similar. Drawing No.:
Material / Blank: Purchased
Final User Material:
Mass [kg]: 50.0
Scale: 1:5
Size: A3
Product Type: G3F DN150
Page No.: 01 (01)
Projection:
Info. No.: 577013
Item Name: VALVE WITH ACTUATOR
Item Id.: 5373793-8
Final User Info. No.: 538Z20
Final User Description: 阀
Final User Ident. No.: 3H-16146

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CAD Drawing - do not correct by hand - CAD Drawing

A3p10703

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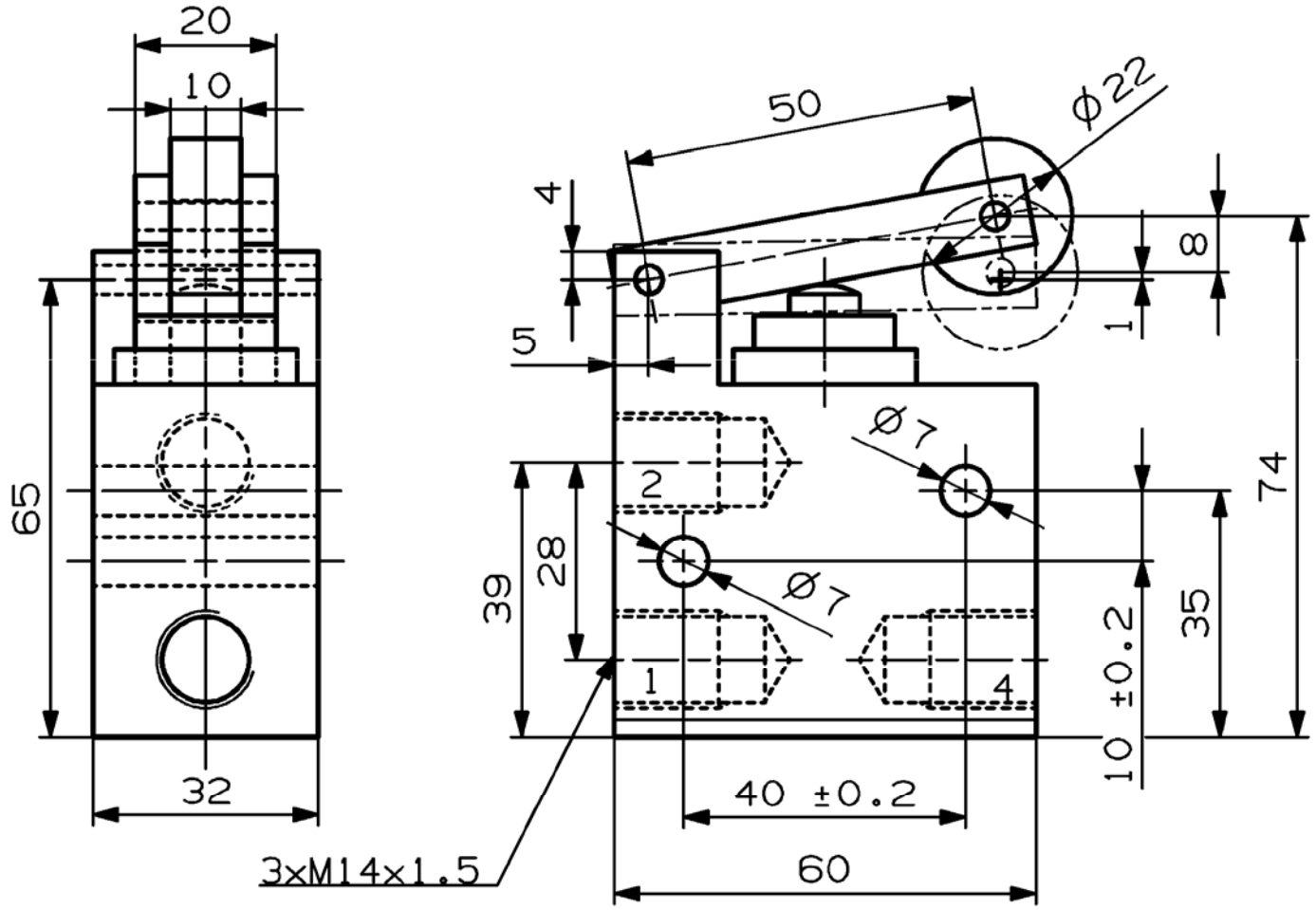
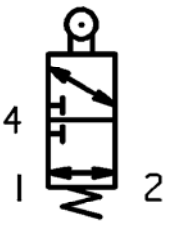


126	制造商或类似厂商 Make or similar: 1125
455	型号 Type: 363 007 000 0
002	工作压力 Working pressure: max. 10 bar
454	温度 Temperature: -20 - +70° C
455	介质 Medium: Air



Basic Standards (MBD SB) & Suppl. Drawing No.:	EN21C Surf. roughness	Projection:	Material / Blank:
	EN21F-m Tolerances		*
		Mass (kg): 0.2	Final User Material:

Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	C.No
				-	Replaced by Ident. No.:	5
						4
						3
						2
						1
20070828	丁超	焦雷			MBD 〉 CMD	0

Similar Drawing No.: ~~0426445-2~~ Replacement for Ident. No.:

Scale:	Size:	Type:	Page No.:	
1:1	A4		01 (01)	MAN B&W Diesel A/S

Info. No.:	Description:	Ident. No.:
677063	3/2-WAY VALVE, PNEUMATIC	047727-2

Final User Info. No.:	Final User Description:	Final User Ident. No.:
132A	二位三通阀	4H-00307

CAD Drawing - do not correct by hand - UG Drawing

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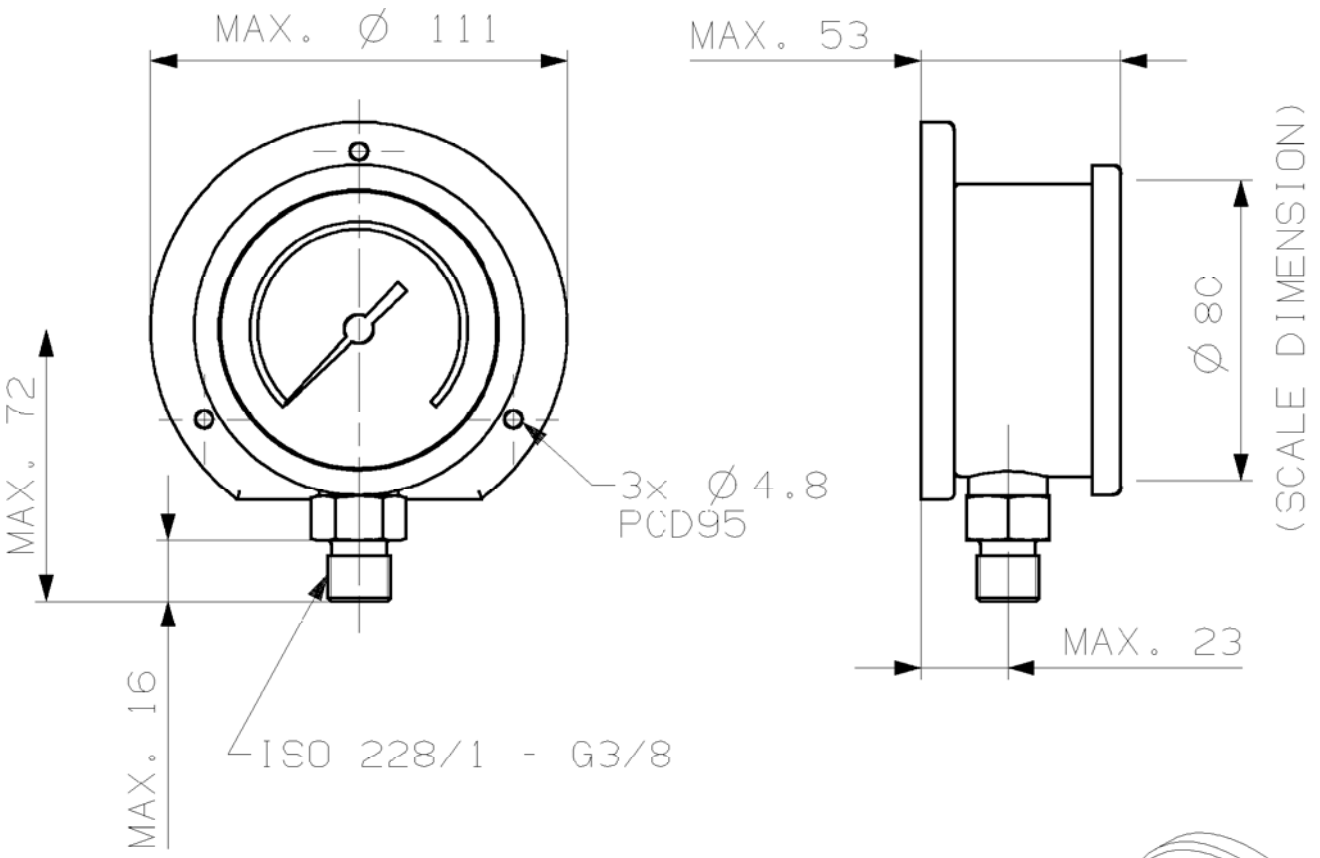

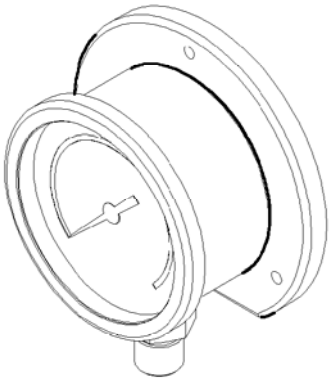

制造商或类似厂商

126 Make or similar: 1115

型号 充液式

455 Type: 80M10-1, D1 (Liquid filled)

刻度

151 Graduation: -1 - 0 - 15 bar

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
				-			01
20100920	颜文昊	宁军		-			00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness	similar. Drawing No.:
Material / Blank:	Final User Material:
Mass (kg): 0.600	
Scale: 1:2	Size: A4
Product Type: 6S60MEC	Page No.: 01 (01)
Projection:	
Info. No.: 681000	Item Name: PRESSURE GAUGE DIAL TYPE
Item Id.: 1213720-6	
Final User Info. No.: 442CA	Final User Description: 压力表
Final User Ident. No.: 4H-09093	

CAD Drawing - do not correct by hand - UG Drawing

A4p10703

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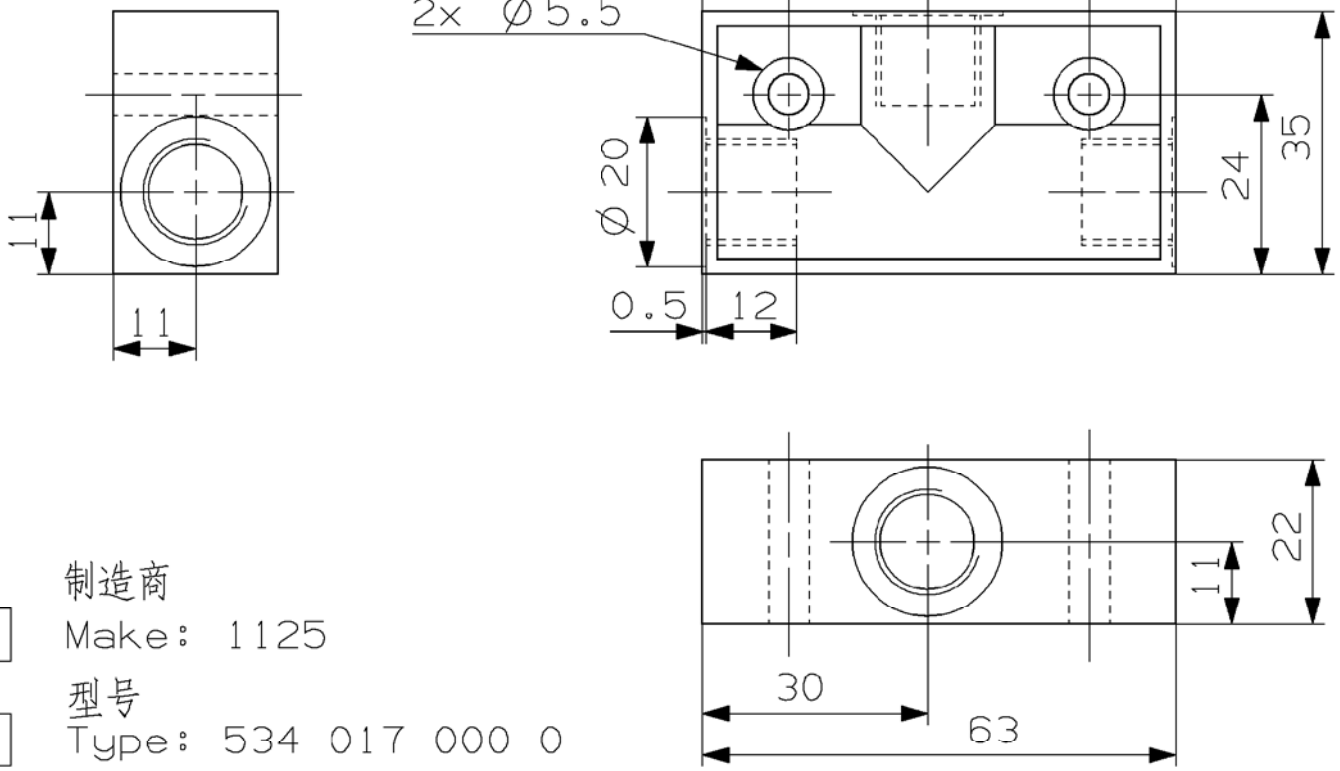


制造商
125 Make: 1125

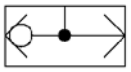
型号
455 Type: 534 017 000 0

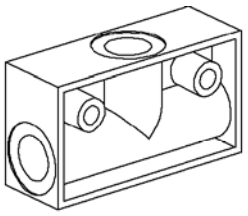
工作压力
002 Working pressure: Max. 10 bar
Min. 0.3 bar

温度
454 Temperature: -20 - +60° C

介质
619 Medium: Air

接口
Connection: M14x1.5

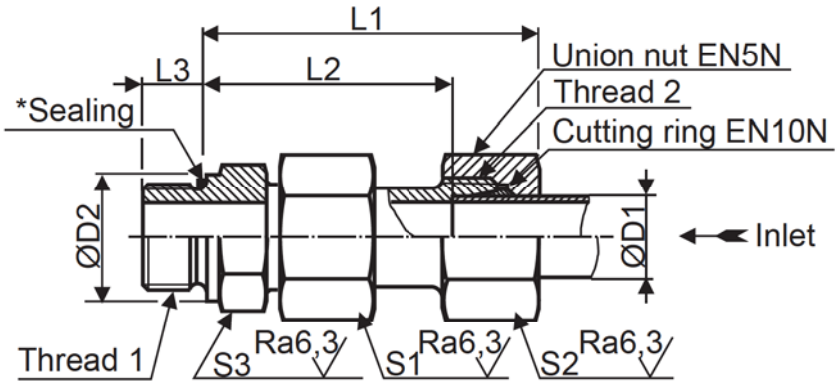




Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
20101009	王学栋	宁军					00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness	similar. Drawing No.:	
Material / Blank:	Final User Material: 制造商	Mass (kg): 0.080
Scale: 1:1 / Size: A4	Product Type: S60MEC	Page No.: 01 (01) / Projection:
Info. No.: 677039	Item Name: NON-RETURN VALVE	Item Id.: 1815699-7
Final User Info. No.: 441M	Final User Description: 止回阀	Final User Ident. No.: 4H-09343

CAD Drawing - do not correct by hand - UG Drawing



Dimensions in mm

Designation	Pipe D1	Thread 1. ISO 228-1-	Thread 2.	S1	S2	S3	L1 ≈	L2	L3	D2	Work. pressure bar	Open. Pressure bar	Union nut EN5N	Cut. ring EN10N	Sealing matr.*
6.210	6	G1/8A	M12x1,5	17	14	17	41	26.5	8	14	100	1.0	6.2	3	4710
12.110	12	G3/8A	M18x1,5	27	22	30	55	40.5	12	22	100	1.0	12.1	7	
22.210	22	G3/4A	M30x2	41	36	46	72	56	16	32	100	1.0	22.2	10.5	
6.310	6	G1/4A	M14x1,5	19	17	19	46	31.5	12	19	400	1.0	6.3	3	5560
8.210	8	G1/4A	M14x1,5	19	17	19	43	28.5	12	19	100	1.0	8.2	5	
10.105	10	G1/4A	M16x1,5	22	19	24	53	38.5	12	19	100	0.5	10.1	6	
25.105	25	G1A	M36x2	46	46	50	78.5	54.5	18	40	250	0.5	25.1	11	
25.110	25	G1A	M36x2	46	46	50	78.5	54.5	18	40	250	1.0	25.1	11	
30.110	30	G1 1/4A	M42x2	60	50	60	90.5	64	20	50	250	1.0	30.1	13	
30.115	30	G1 1/4A	M42x2	60	50	60	90.5	64	20	50	250	1.5	30.1	13	
10.202	10	G3/8A	M18x1,5	22	22	24	54	38	12	22	400	0.2	10.2	6	
16.105	16	G1/2A	M24x1,5	32	30	36	64	46	14	27	400	0.5	16.1	9	
16.110	16	G1/2A	M24x1,5	32	30	36	64	46	14	27	400	1.0	16.1	9	
20.105	20	G3/4A	M30x2	41	36	46	71.5	50	16	32	400	0.5	20.1	10	
20.110	20	G3/4A	M30x2	41	36	46	71.5	50	16	32	400	1.0	20.1	10	

References: EN4V, EN48D and EN48H (SB-standards).

Material: S14A.

*Sealing materials: 4710 (~ Perbunan N) for variants acc. to the table.
5560 (~ Viton) for variants acc. to the table.

Surface treatment: Cadmium plated.

Execution: With sealing, union nut and cutting ring.

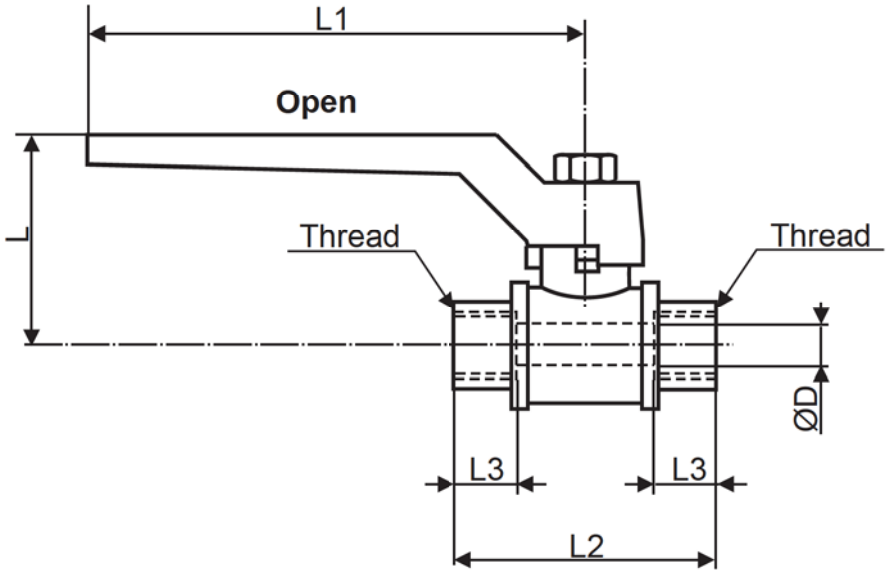
Media: Fuel oil and lubricating oil.

Temperature: Max. 75°C for valves with sealing material 4710 (~ Perbunan N).
Max. 150°C for valves with sealing material 5560 (~ Viton).

Tolerances: Thread 1 ~ EN48D page 2 (~ ISO 228-1-class A, 1982).
Thread 2 ~ EN48H pages 21.-22. (6H) an d21.2-22.2 (6g).
S1, S2 and S3 ~ EN4V.

Designation: A non-return valve with ISO 228-1-G1/8A thread for pipes D1 = 6 mm, sealing material 4710 (~ Perbunan), opening pressure = 1 bar and working pressure 100 bar, is specified:

EN206A6.210



Dimensions in mm

Designation	Thread ISO 228-1-	ØD	L max.	L1 max.	L2 ≈	L3
13	G1/4	10	38	90	47	13
17	G3/8	10	38	90	49	13
21	G1/2	15	42	90	65	16
26	G3/4	20	50	105	73	18
33	G1	25	54	105	86	21
42	G1 1/4	32	64	120	101	23
48	G1 1/2	40	75	140	111	24
60	G2	50	86	170	132	28

Field of application: General purpose.
Material: xxx (EDP abbreviation).
Sealing material: 5430 (PTFE).
Working pressure: Max. 6 bar.
Temperature: Max. 150°C.

Designation: A ball valve with ISO 228-1-G1/4 is specified:
EN233F13

Plan History 文件说明	Engine Type 机型	7S80ME-C9.2
	Engine No 工程编号	CE0290
	Yard/Hull NO 船厂/船号	DACKS DE014
	Classification 船级社	LR+CCS

CMD-MAN 7S80ME-C9.2
WIRING OF ELECTRIC PARTS
主机电气接线图

				5
				4
				3
				2
				1
Data 日期	Correct 修改	Check 校对	Description 修改说明	Rev. 版本

Design 编制	丁超 20140102	Drawing NO 图号	4H-14996		
Check 校对	宁军 20140102				
Examine 审核		Replaced 被替代图号		Total 总页数(含封面)	16
Verify 审定		Reference 设计参考图号			
Countersign 会签		CSSC-MES Diesel Co.,Ltd 上海中船三井造船柴油机有限公司			
Approved 批准					

Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	02 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	✳	CE0290		00

JME-1 1/3

3×1.0

B.F145C-FLEX

AJB-HF1

TICI-24*1

1 2 3 4

101 PG13.5

TE 8702-1

Exh. gas after exh valves Cyl. 1

(For alarm + slow down)

1#气缸废气出口温度(用于报警+降速)

5 6 7 8

102 PG13.5

TE 8702-2

Exh. gas after exh valves Cyl. 2

(For alarm + slow down)

2#气缸废气出口温度(用于报警+降速)

9 10 11 12

103 PG13.5

TE 8702-3

Exh. gas after exh valves Cyl. 3

(For alarm + slow down)

3#气缸废气出口温度(用于报警+降速)

13 14 15 16

104 PG13.5

TE 8702-4

Exh. gas after exh valves Cyl. 4

(For alarm + slow down)

4#气缸废气出口温度(用于报警+降速)

17 18 19 20

105 PG13.5

TE 8702-5

Exh. gas after exh valves Cyl. 5

(For alarm + slow down)

5#气缸废气出口温度(用于报警+降速)

21 22 23 24

106 PG13.5

TE 8702-6

Exh. gas after exh valves Cyl. 6

(For alarm + slow down)

6#气缸废气出口温度(用于报警+降速)

25 26 27 28

107 PG13.5

TE 8702-7

Exh. gas after exh valves Cyl. 7

(For alarm + slow down)

7#气缸废气出口温度(用于报警+降速)

AJB-HF2(1/2)

TICI-37*1

29 30 31 32

108 PG13.5

TE 8707-1

Exh. gas outlet turbochanger NO. 1

(For alarm)

1#增压器废气出口温度(用于报警)

33 34 35 36

109 PG13.5

TE 8707-2

Exh. gas outlet turbochanger NO. 2

(For alarm)

2#增压器废气出口温度(用于报警)

37 38 39 40

110 PG13.5

TE 8701-1

Exh. gas inlet turbochanger NO. 1

(For alarm + slow down)

1#增压器废气进口温度(用于报警)

41 42 43 44

111 PG13.5

TE 8701-2

Exh. gas inlet turbochanger NO. 2

(For alarm + slow down)

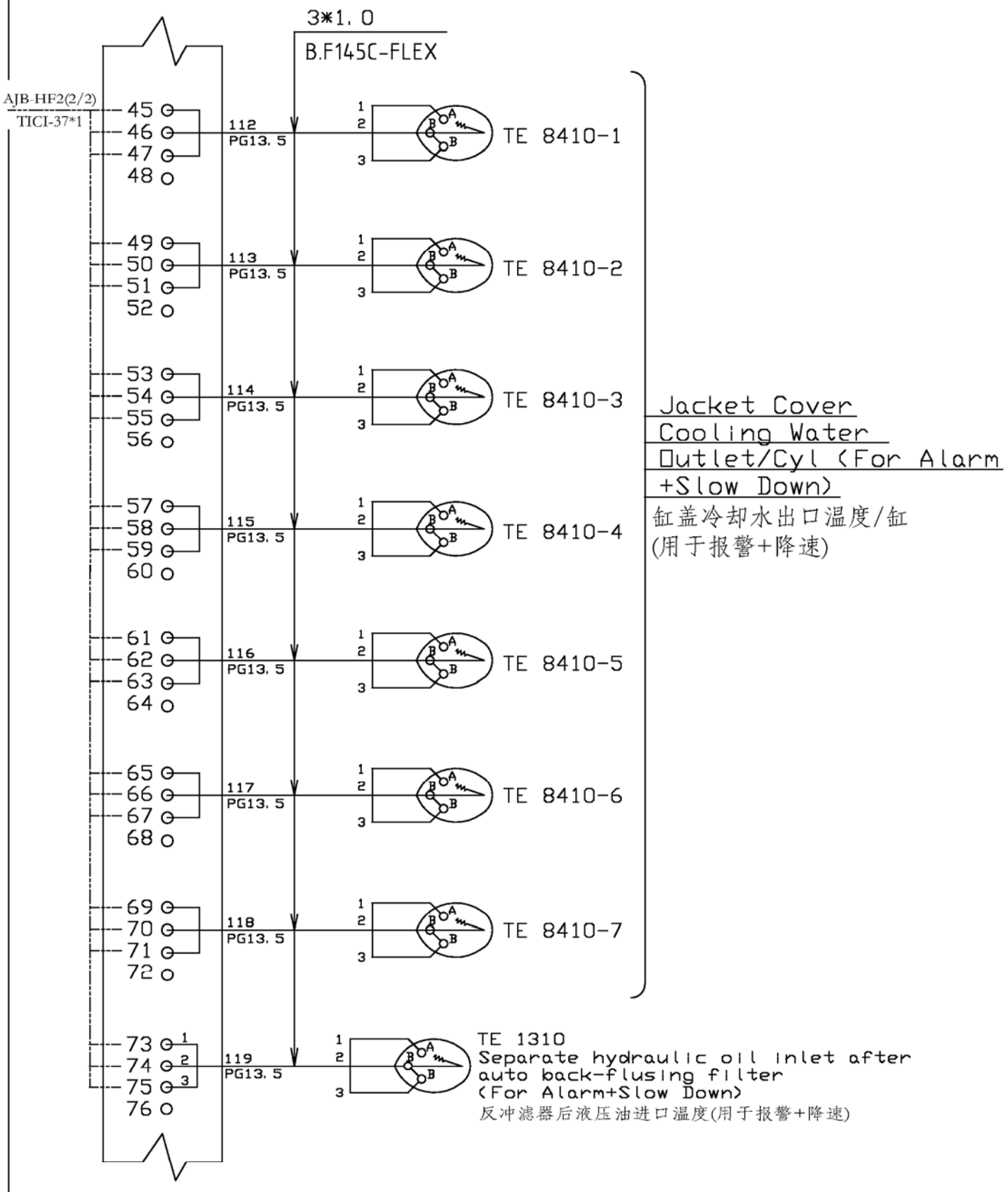
2#增压器废气进口温度(用于报警)

Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	03 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-1 2/3

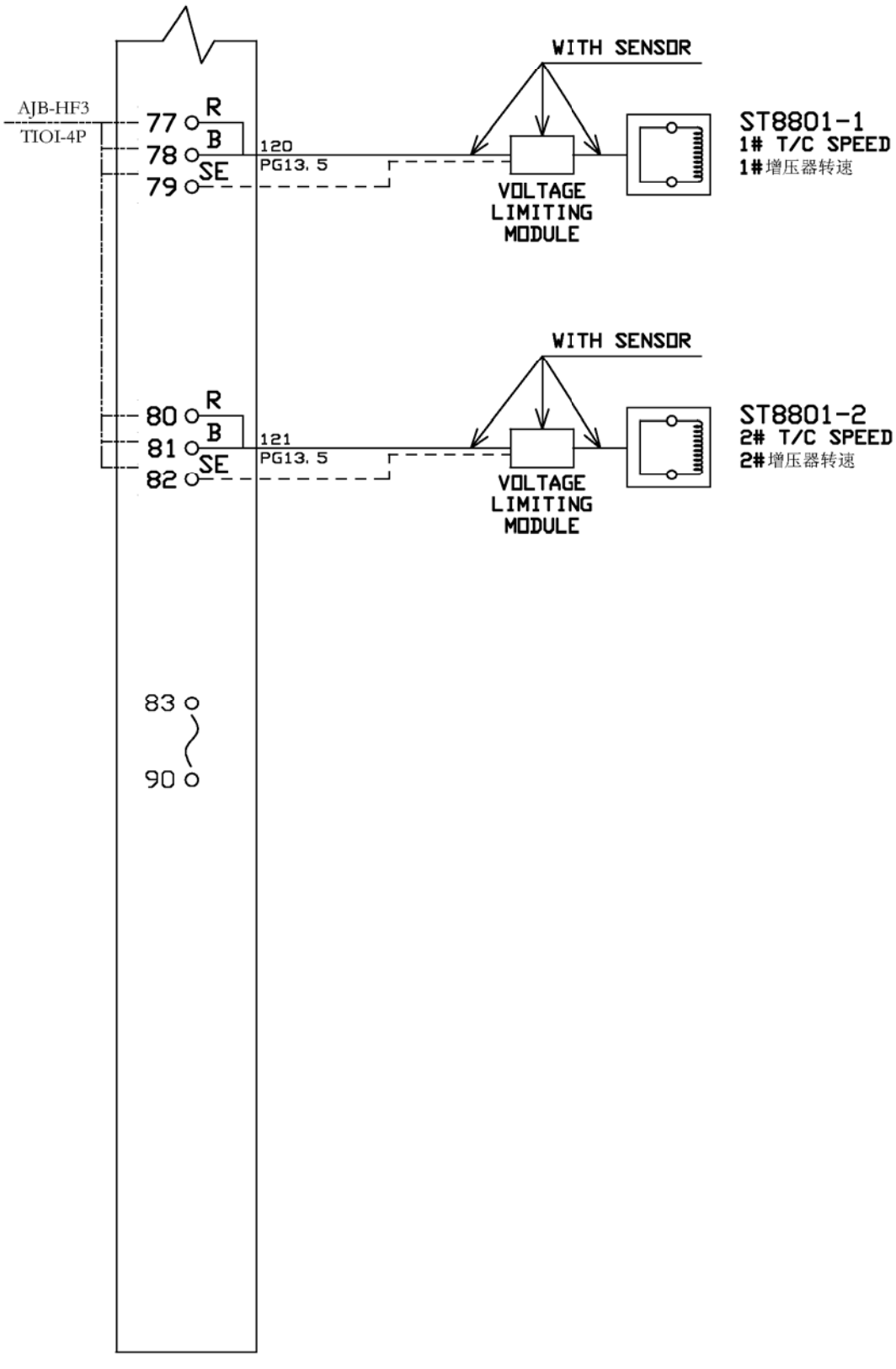


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	04 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-1 3/3

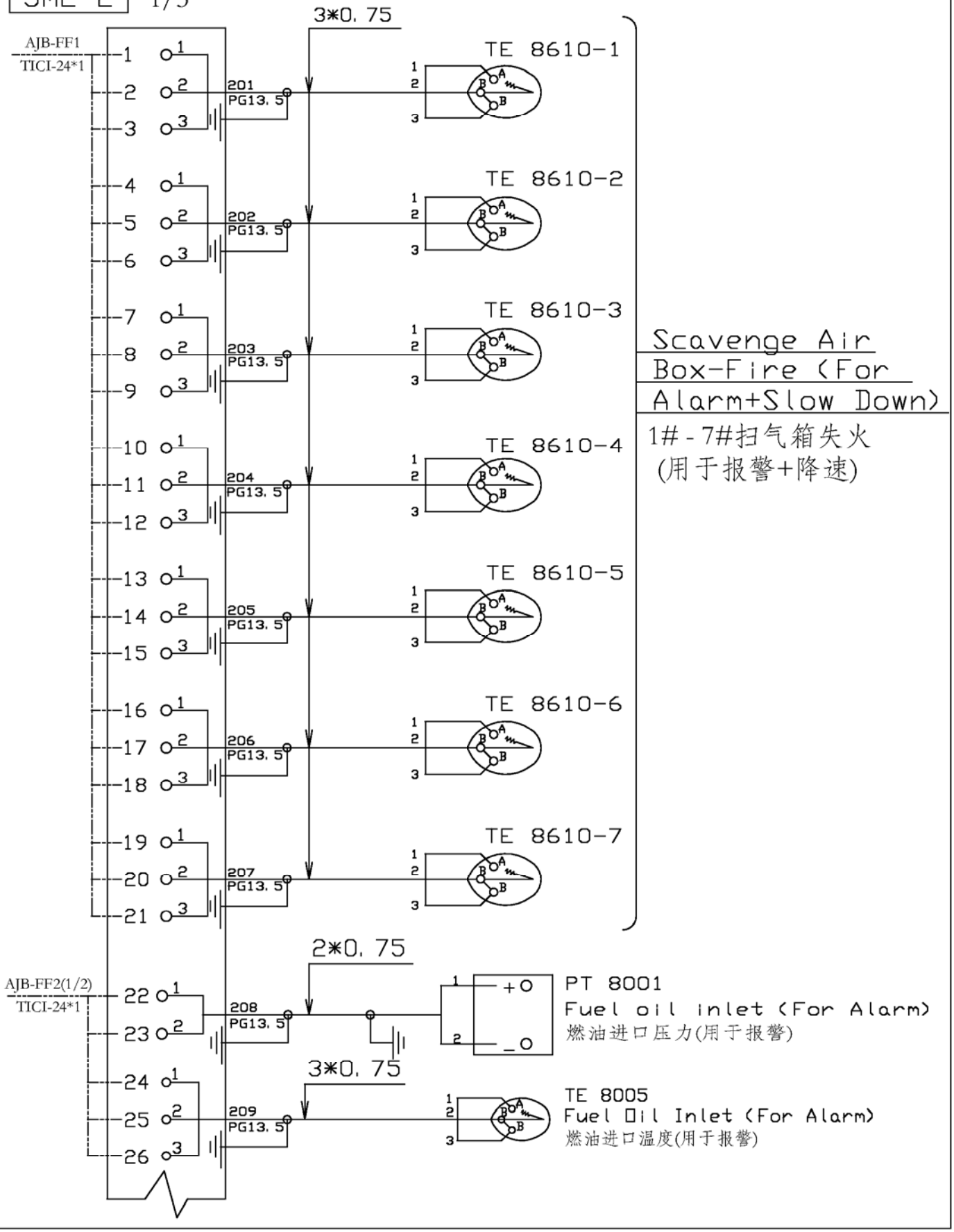


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	05 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-2 1/3

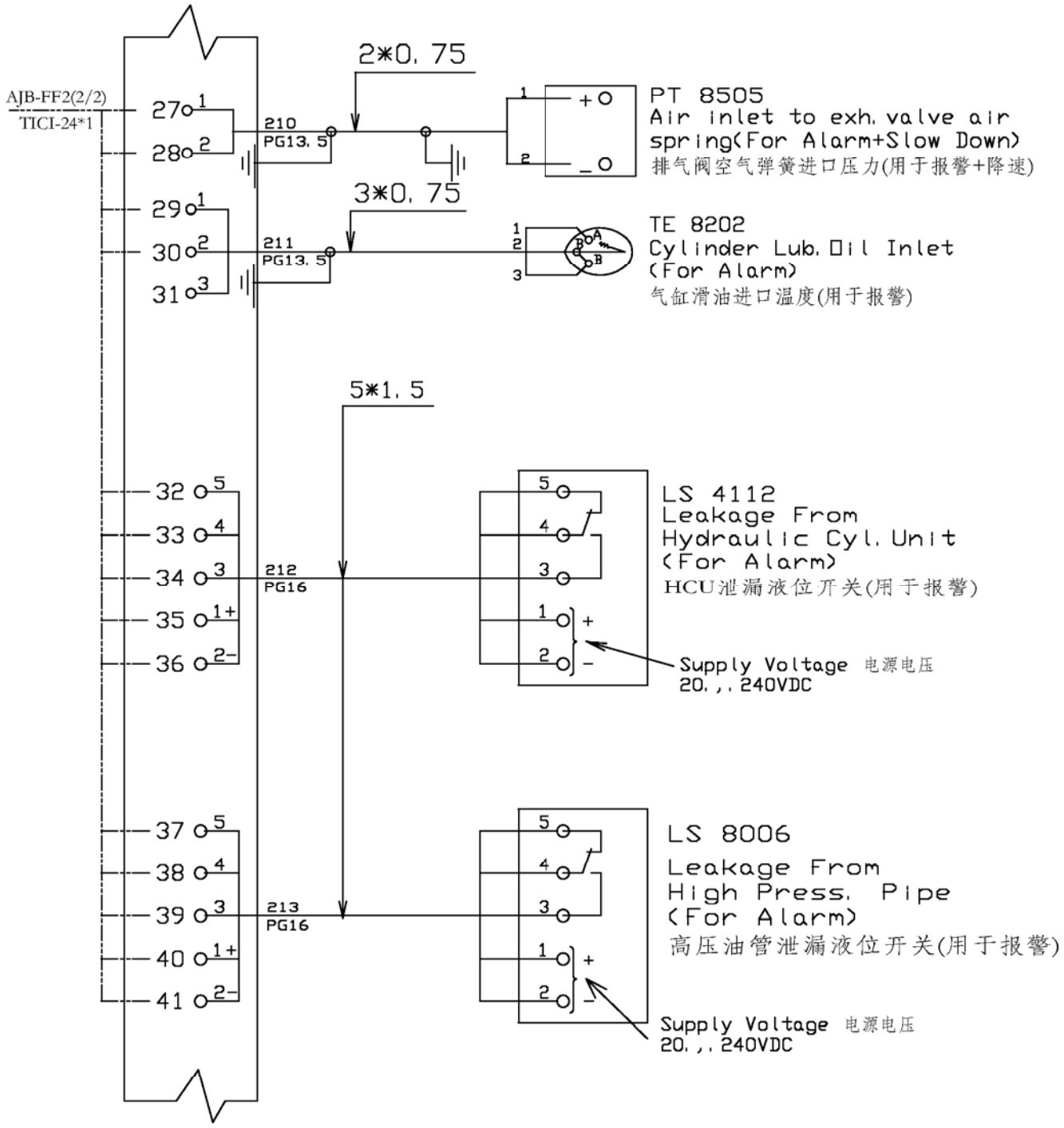


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	06 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-2 2/3

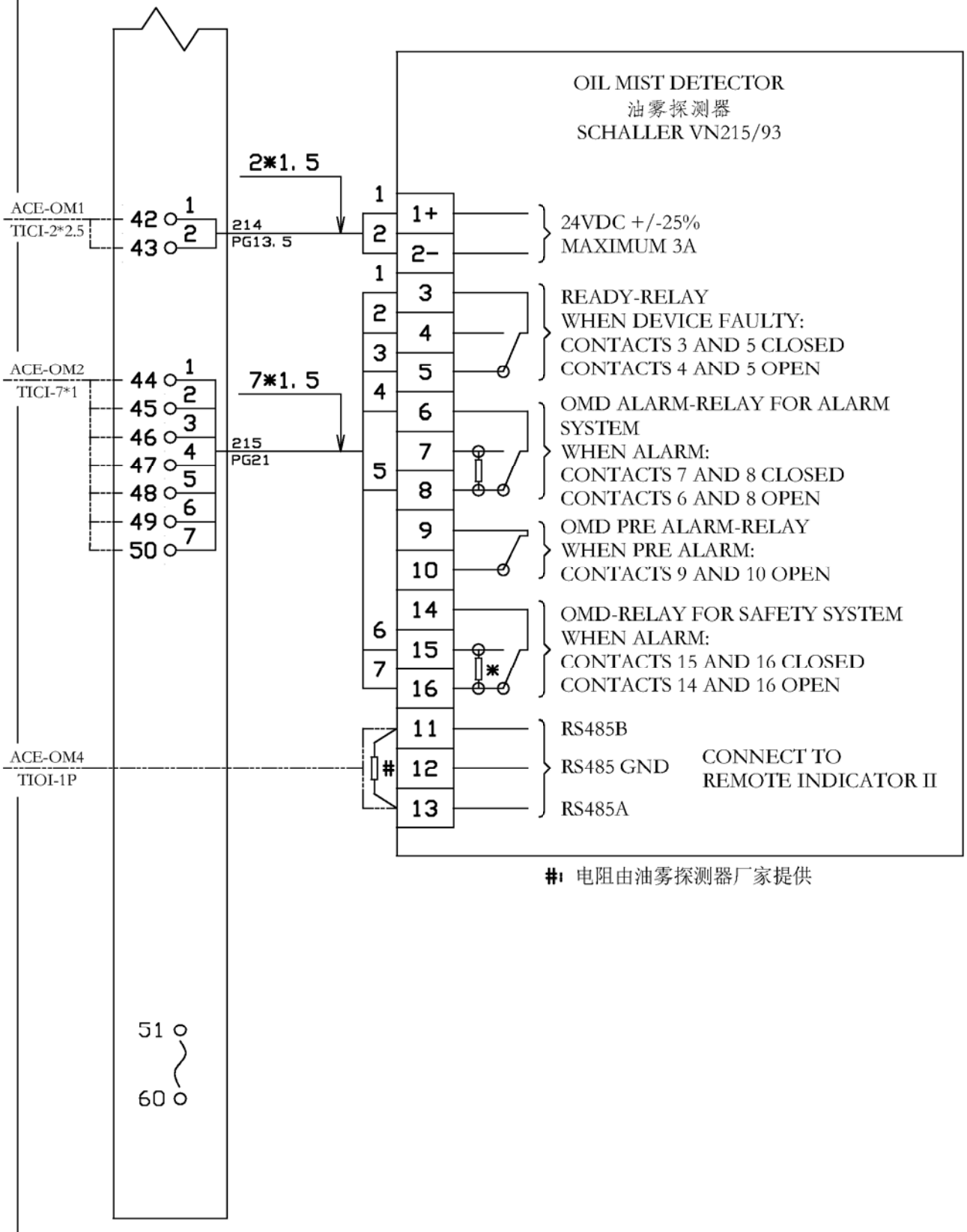


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	07 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-2 3/3



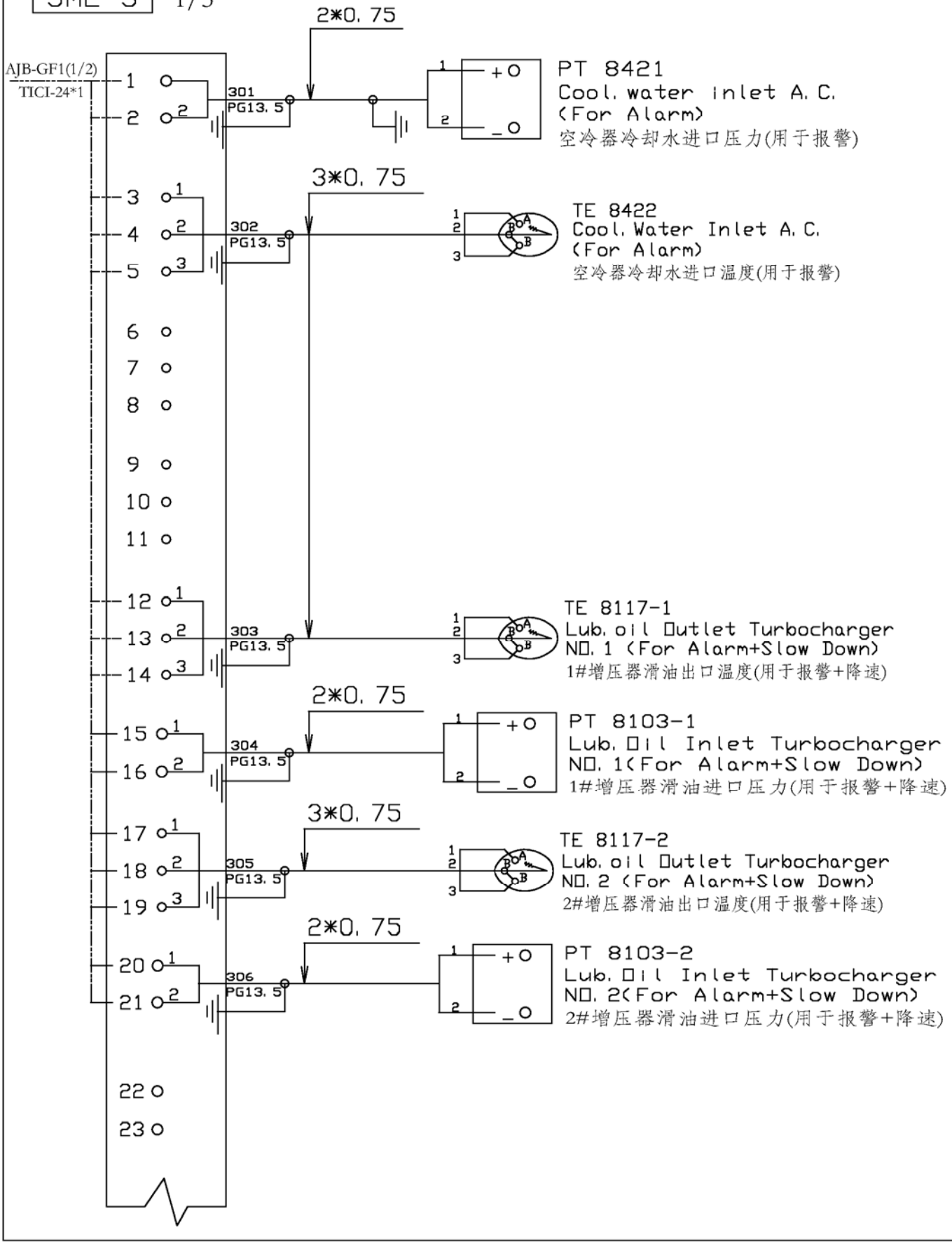
#: 电阻由油雾探测器厂家提供

Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	08 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-3 1/5

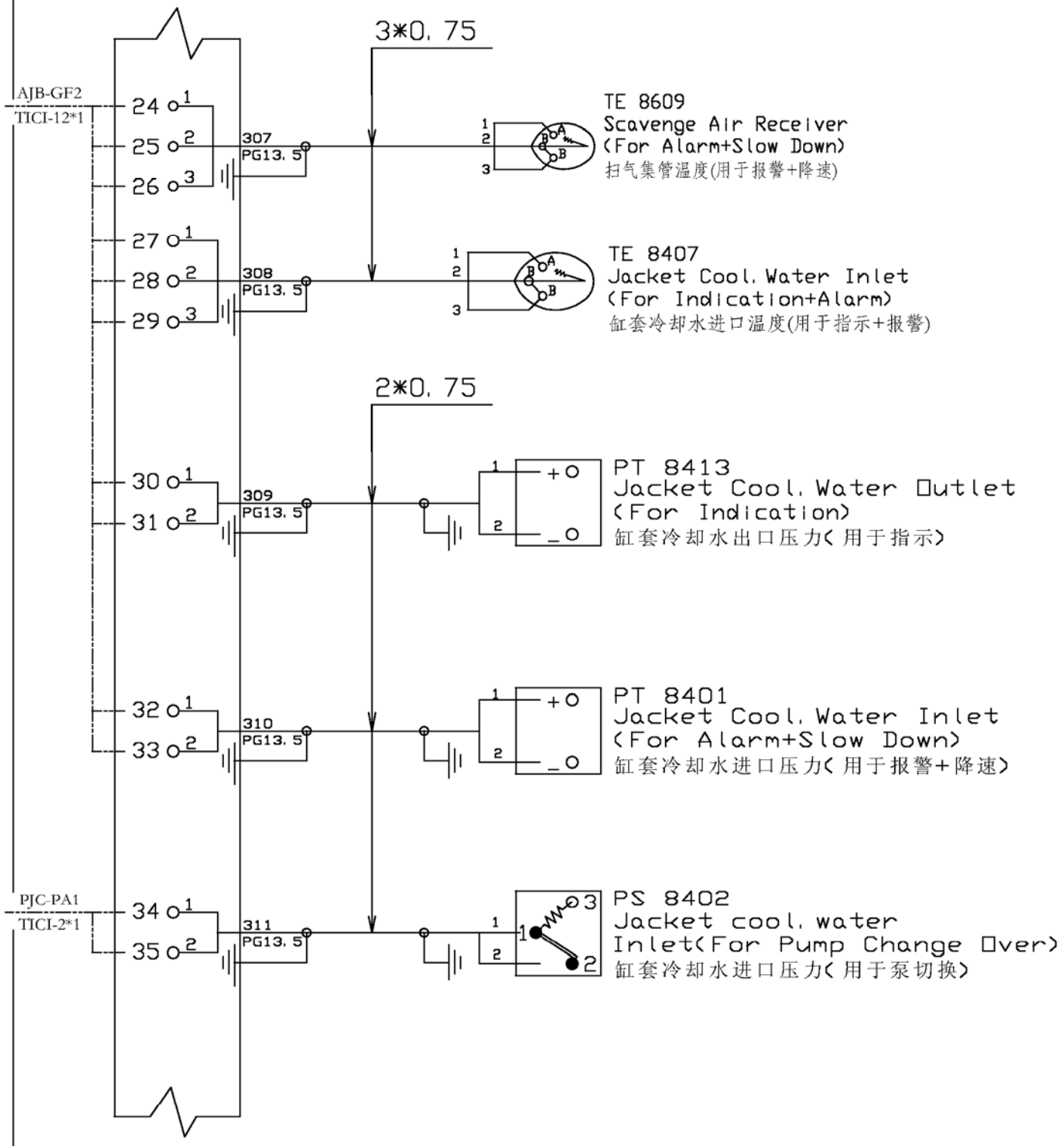


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	09 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-3 2/5

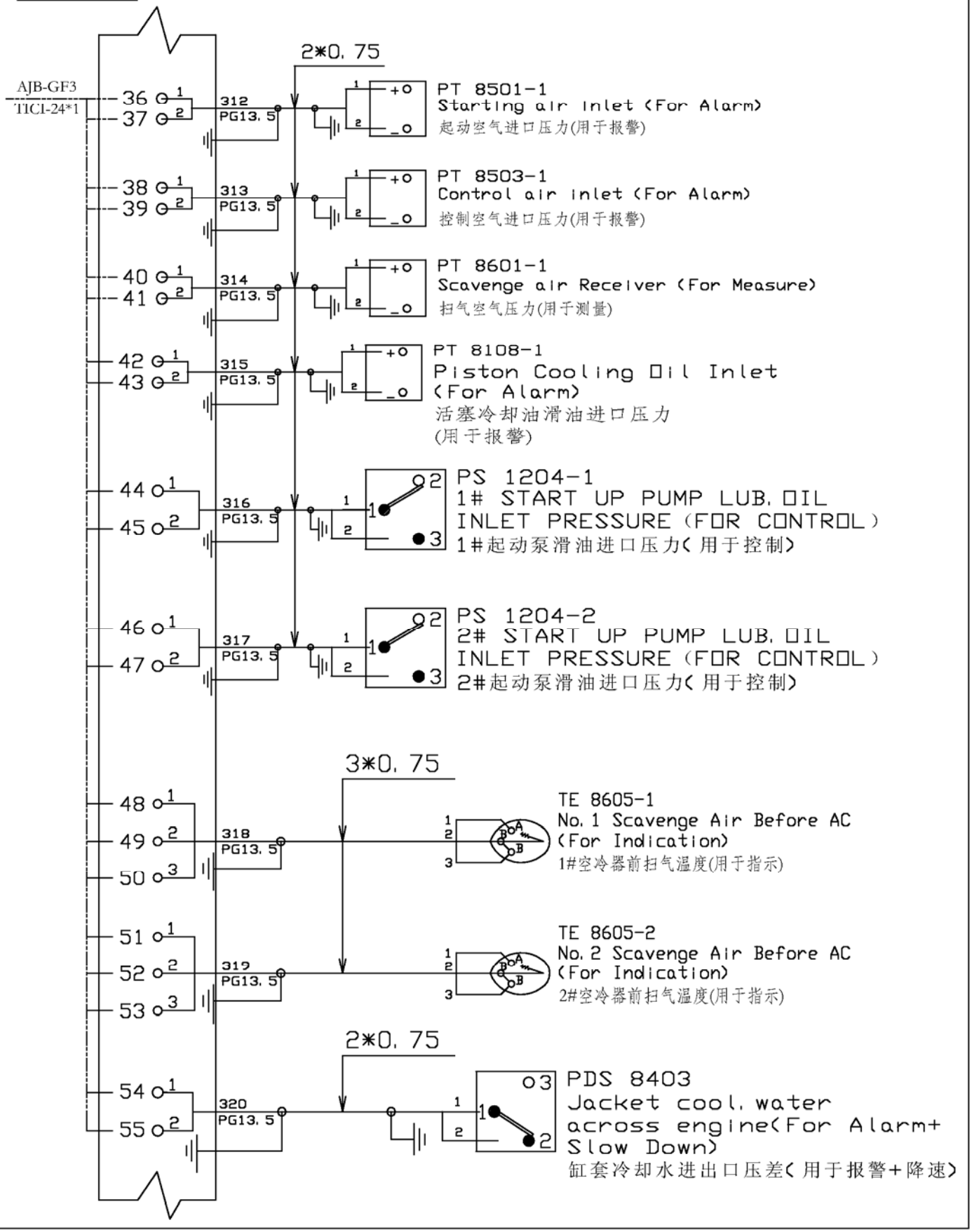


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	10 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-3 3/5

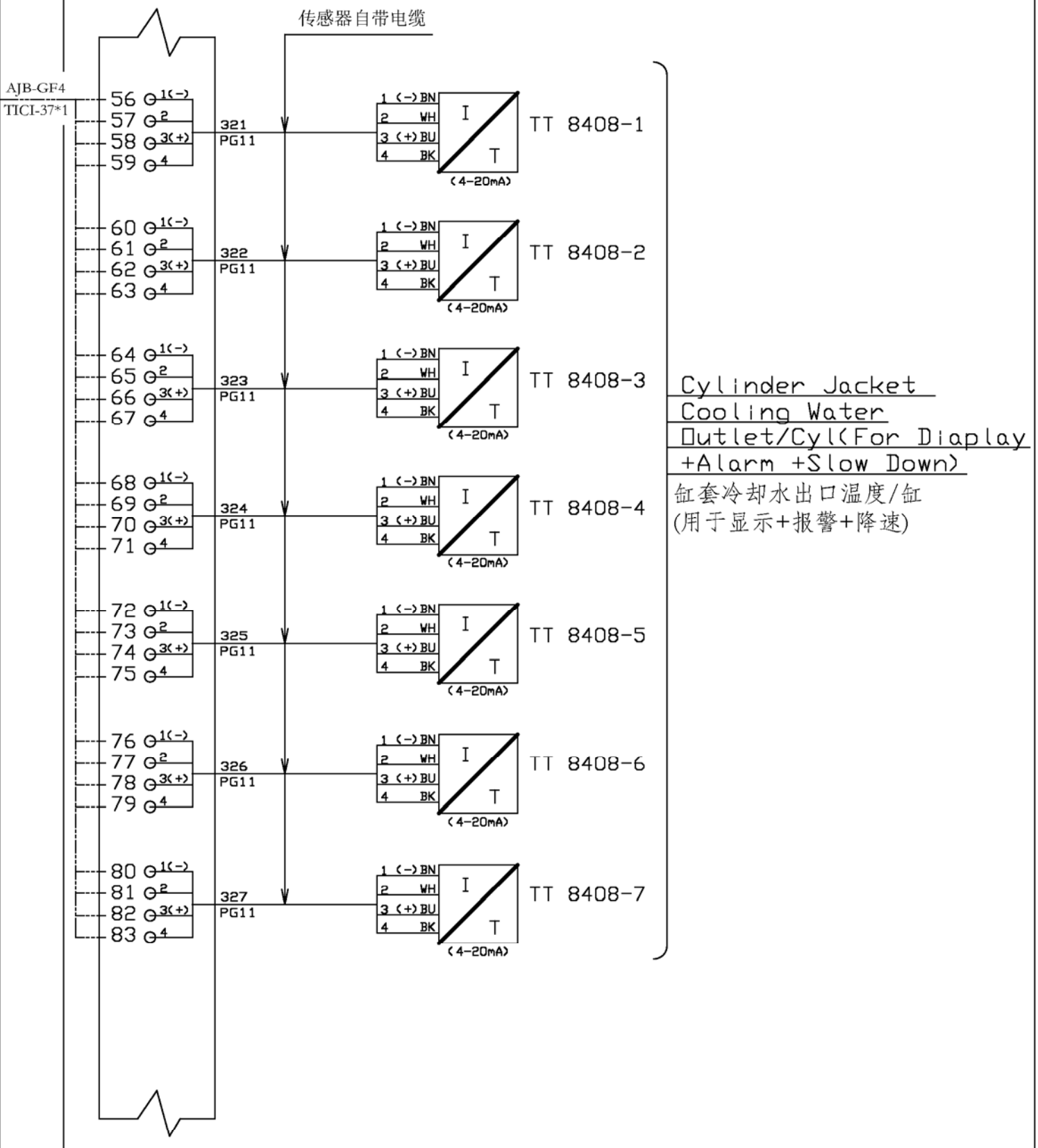


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	11 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-3 4/5

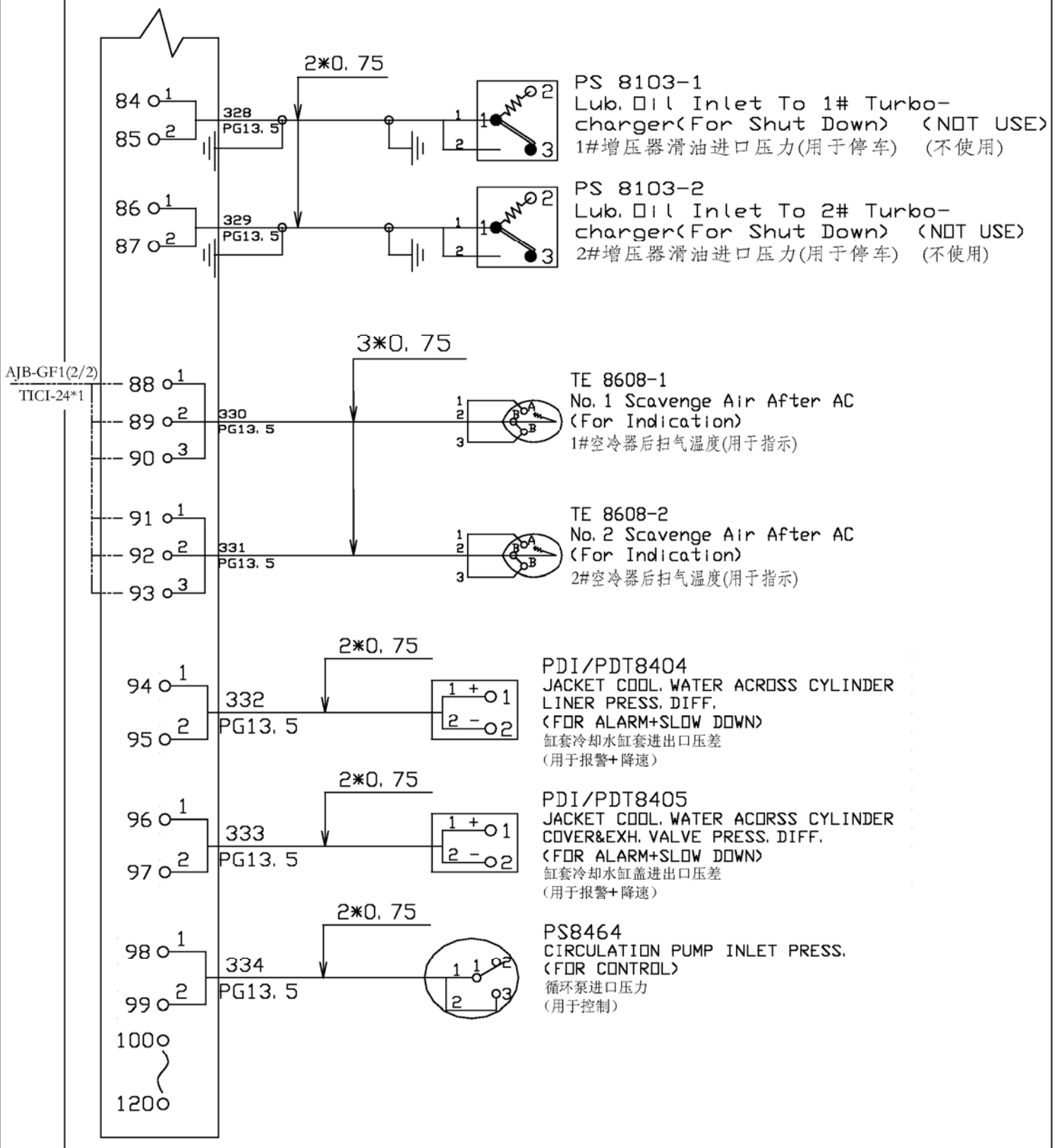


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	12 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-3 5/5

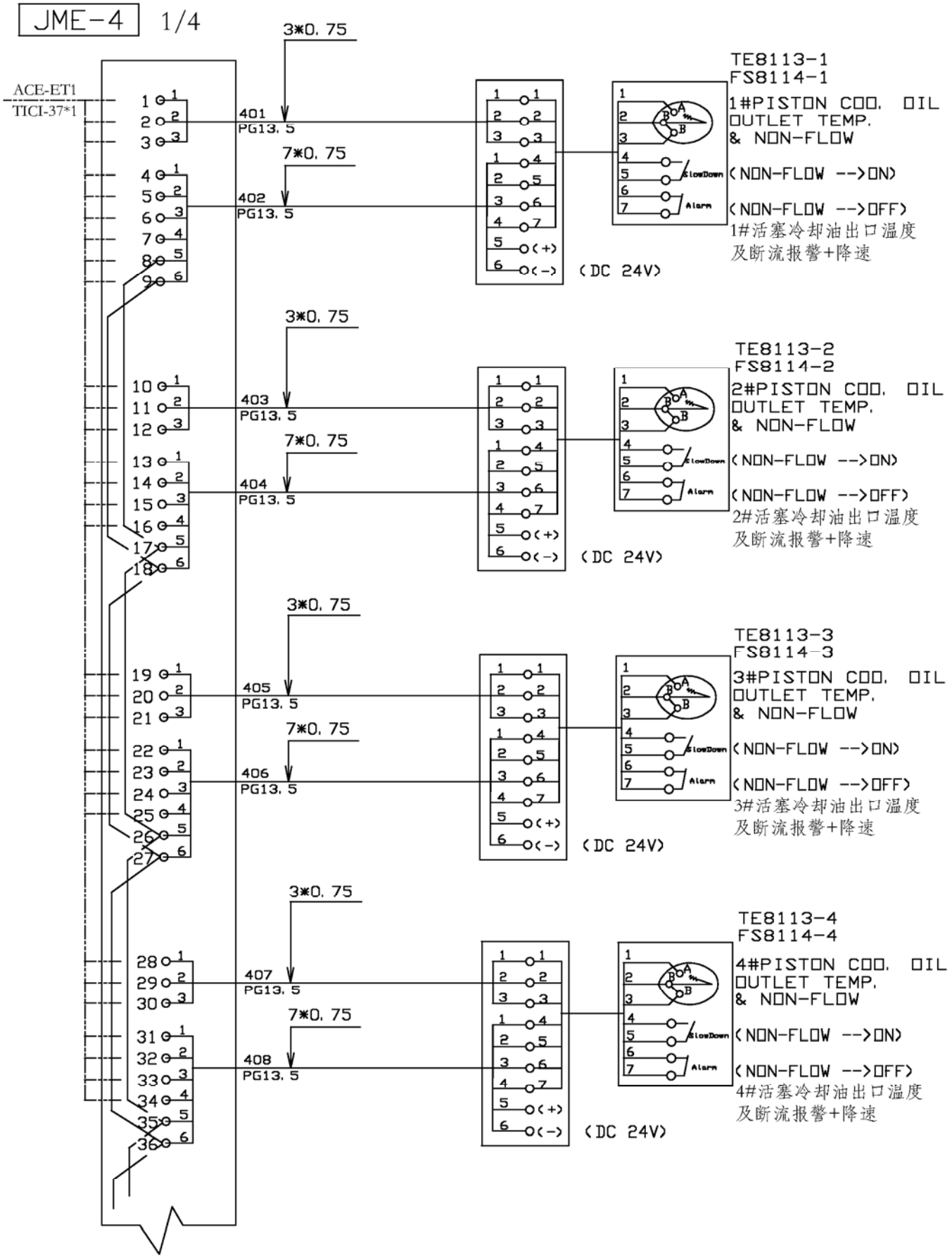


Info. No.:	Item Name:		Item Id.:
	主机电气接线图		4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	13 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-4 1/4



Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	14 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-4 2/4

ACE-ET2
TICI-37*1

3*0.75
409
PG13.5

7*0.75
410
PG13.5

TE8113-5
FS8114-5
5#PISTON COO. OIL OUTLET TEMP. & NON-FLOW
(NON-FLOW -->ON)
(NON-FLOW -->OFF)
5#活塞冷却油出口温度及断流报警+降速
(DC 24V)

3*0.75
411
PG13.5

7*0.75
412
PG13.5

TE8113-6
FS8114-6
6#PISTON COO. OIL OUTLET TEMP. & NON-FLOW
(NON-FLOW -->ON)
(NON-FLOW -->OFF)
6#活塞冷却油出口温度及断流报警+降速
(DC 24V)

3*0.75
413
PG13.5

7*0.75
414
PG13.5

TE8113-7
FS8114-7
7#PISTON COO. OIL OUTLET TEMP. & NON-FLOW
(NON-FLOW -->ON)
(NON-FLOW -->OFF)
7#活塞冷却油出口温度及断流报警+降速
(DC 24V)

ACE-ET3(1/2)
TICI-24*1

3*0.75
415
PG13.5

TE 8106
Thrust Bearing segment
(For Alarm+Slow Down)
推力块温度(用于报警+降速)

2*0.75
416
PG13.5

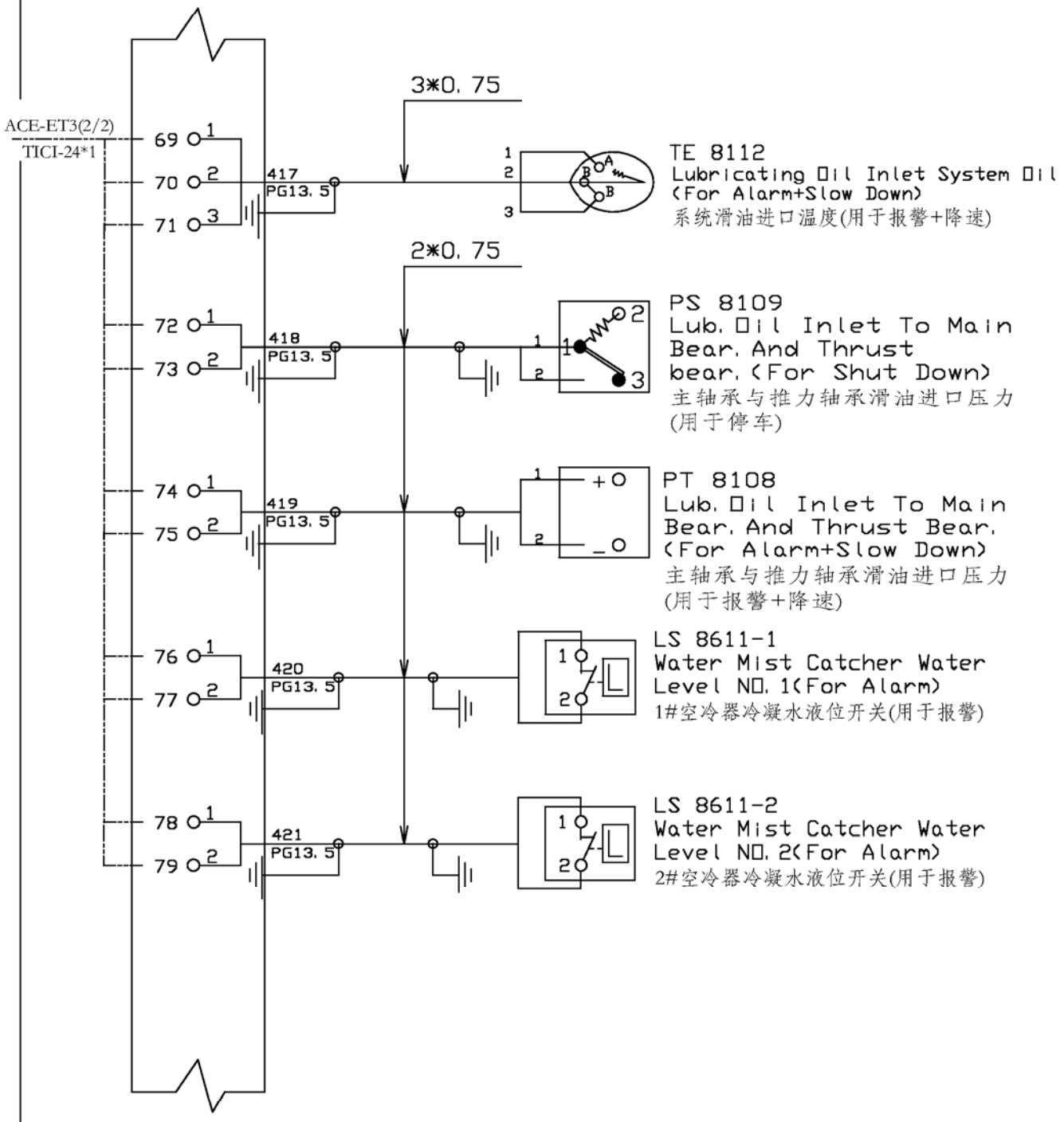
TS 8107
Thrust Bearing Segment
(For Shut Down)
推力块温度(用于停车)

Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	15 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

JME-4 3/4

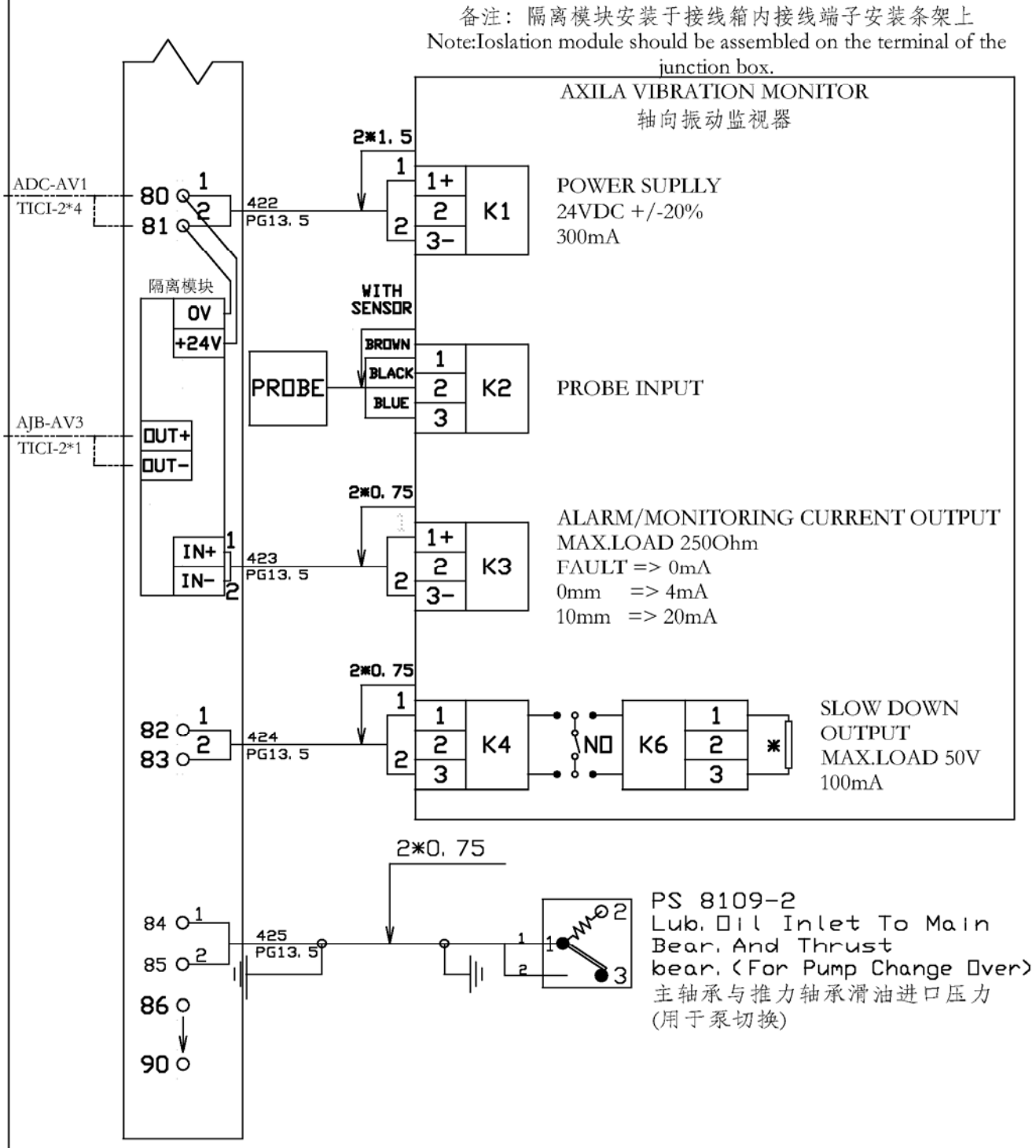


Info. No.:	Item Name:	Item Id.:
	主机电气接线图	4H-14996

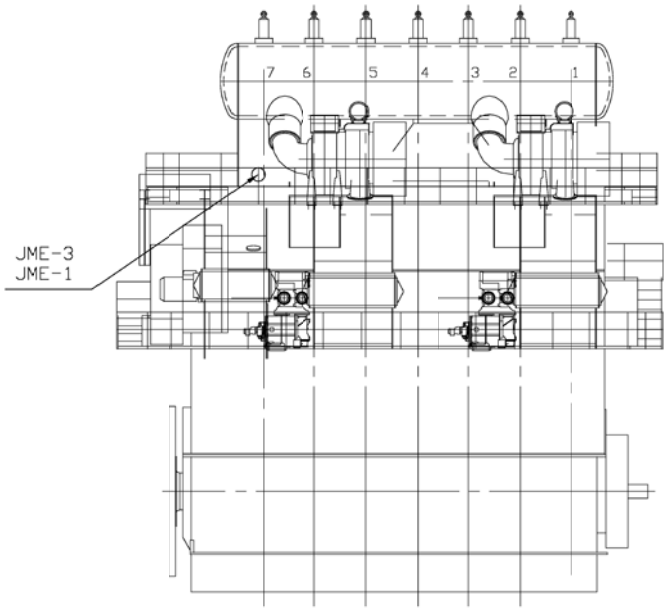
Scale:	Size:		Page No.:	Projection:	
	A4	7S80ME-C9.2	16 (16)		MAN Diesel

Date	Des.	Chk.	A.C.	Revision change	CSD. No.	Rev.
20140102	丁超	宁军	*	CE0290		00

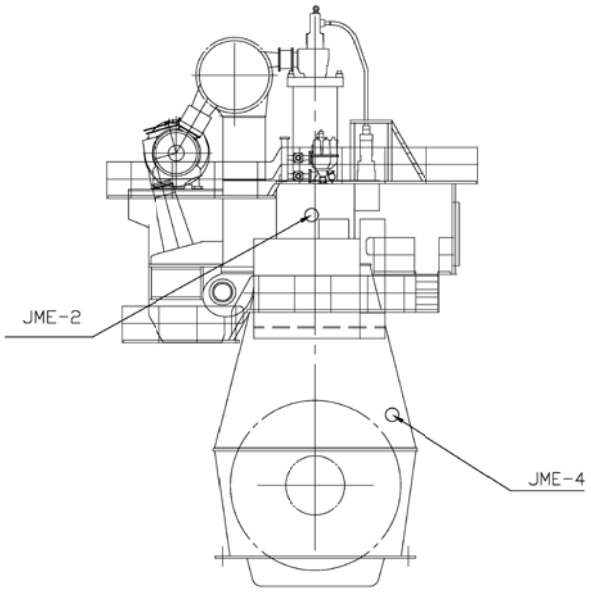
JME-4 4/4



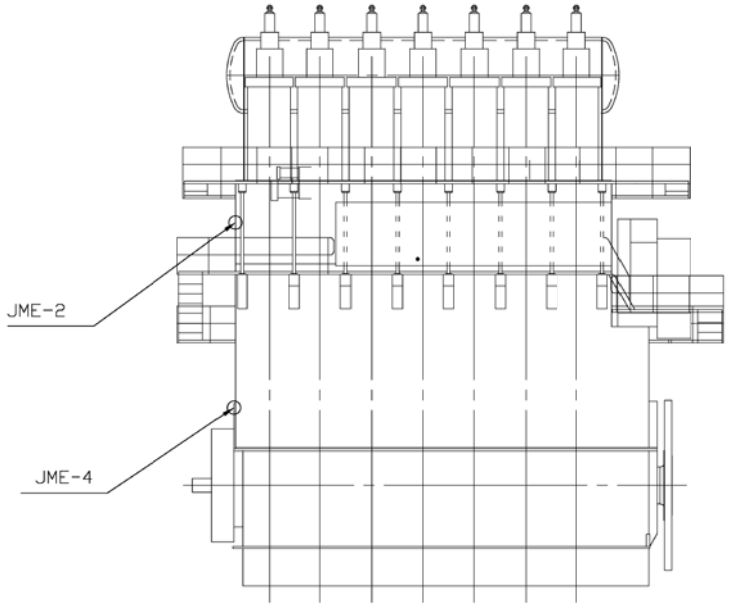
从排气侧看



从自由端看



从操纵侧看



注意：本布置图仅为示意图，其体安装位置根据实际情况确定

Basic Standards CMBD SID & Suppl. Drawing No.:					EN21C Surf. roughness	Projection	Material / Blank:
					EN21F-m Tolerances	Mass (kg):	Final User Material:
Date	Des.	Chk.	Appr.	A. C.	Change / Replacement		C. No
				✱	Replaced by Ident. No.:		5
				✱			4
				✱			3
				✱			2
				✱			1
20140102	丁超	宁军		✱	CE0290		0
Similar Drawing No.:					Replacement for Ident. No.:		
Scale: ~	Size: A1	Type: 7S80ME-C9.2			Page No.: 01 (01)	CSSC-MES	
Info. No.:		Description:				Ident. No.:	
Final User Info. No.: 442W		Final User Description: 接线箱布置				Fina. User Ident. No.: 3H-16860	

CAD Drawing - do not correct by hand

Engine Control System

MPC-10 FPP
2 ~~1=5~~ auxiliary blowers
2 start up pumps
3~~=5~~ engine driven HPS pumps
MBD Fiva

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added		04
20120706	CAHV	CAHV	Z3	EC-MOP add.+General updated	00633	03
20120228	JARY	JYA	Z3	Drawing updated	-	02
20110502	JARY	JYA	-			00

Basic Standards (MBD SB):
EN21F-m Tolerances EN21C Surf. roughness

Suppl. Drawing No.:

Title page

Material / Blank:

Final User Material:

Mass (kg):

Scale:

Size: A3

Product Type: ~~ME ECS 5 12 CYL~~

Projection:

Page No.: 1 (225)

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Info. No.: 7B4200

Item Name: ENGINE CONTROL

Item Id.: 5260077-4

Final User Info. No.:

Final User Description: ME ECS 7 CYL

Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Reference Designations	Description
-ACU-1	Auxiliary Control Unit 1
-ACU-2	Auxiliary Control Unit 2
-ACU-3	Auxiliary Control Unit 3
-CCU-1	Cylinder Control Unit 1
-CCU-2	Cylinder Control Unit 2
-CCU-3	Cylinder Control Unit 3
-CCU-4	Cylinder Control Unit 4
-CCU-5	Cylinder Control Unit 5
-CCU-6	Cylinder Control Unit 6
-CCU-7	Cylinder Control Unit 7
~~-CCU-8~~	~~Cylinder Control Unit 8~~
~~-CCU-9~~	~~Cylinder Control Unit 9~~
~~-CCU-10~~	~~Cylinder Control Unit 10~~
~~-CCU-11~~	~~Cylinder Control Unit 11~~
~~-CCU-12~~	~~Cylinder Control Unit 12~~
-CCU-n	Cylinder Control Unit n
-EC-MOP-A	Engine Control Main Operator Panel A
-EC-MOP-B	Engine Control Main Operator Panel B
-ECU-A	Engine Control Unit A
-ECU-B	Engine Control Unit B
-EICU-A	Engine Interface Control Unit A
-EICU-A --> B	Engine Interface Control Unit A --> B
-EICU-B	Engine Interface Control Unit B
-EICU-B --> A	Engine Interface Control Unit B --> A
-LT	Local telegraph
-LUB-n	Lubricator Harting Plug Cylinder n
~~-MOP-A~~	~~Main Operating Panel A~~
~~-MOP-B~~	~~Main Operating Panel B~~
-MSA	Marker Slave, Pick-up sensor
-PMI	PMI System
-SCU	Scavange air Control Unit
-TSA-A	Tacho System Amplifier A
-TSA-B	Tacho System Amplifier B
AMS	Alarm and monitoring system
AUXB-1	Auxiliary blower 1 Starter Cabinet
AUXB-2	Auxiliary blower 2 Starter Cabinet
~~AUXB-3~~	~~Auxiliary blower 3 Starter Cabinet~~
~~AUXB-4~~	~~Auxiliary blower 4 Starter Cabinet~~
~~AUXB-5~~	~~Auxiliary blower 5 Starter Cabinet~~
ECC-1	Engine Control Cabinet 1
ECC-2	Engine Control Cabinet 2
ECC-3	Engine Control Cabinet 3
ECC-n	Engine Control Cabinet n
ECR	Engine Control Room
EGB	Exhaust Gas By-pass JB
EICC	Engine Interface Control Cabinet
HCC-n	Hydraulic Cylinder Control junction box n
HCU-n	Hydraulic Cylinder Unit Junction Box Cylinder n
HPS	Hydraulic Power Supply JB
JB MOP-A	Junction box MOP-A

Reference Designations	Description
JB MOP-B	Junction box MOP-B
~~JB TC CUT OUT~~	~~TC Cut out junction box~~
LOP	Local Operating Panel
PMS	Power Management System
RCS	Remote control system
SS	Safety system
STS-1	Start up pump 1 Starter Cabinet
STS-2	Start up pump 2 Starter Cabinet
UPS-A	Uninterrupted power supply A
UPS-B	Uninterrupted power supply B
~~WHR~~	~~Waste Heat Recovery System~~

Reference list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		2 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7CYL	4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Engine Control System

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2 COMMON CONTROL SIGNALS

3 HYDRAULIC POWER SUPPLY

~~4 LOCAL OPERATING PANEL~~

(See Manoev. System Drawing)

5 START-UP PUMPS & AUXILIARY BLOWERS

6 CYLINDER CONTROL

7 NETWORK A & NETWORK B

8 TACHO

9 POWER

10 ECS INTERFACE TO ALARM SYSTEM AND ECR

11 OPTIONAL SYSTEMS

12 I/O LIST

13 ENGINE BUILDER CABLE LIST

14 YARD SUPPLY CABLE LIST

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale: Size: **A3**

Product Type: ~~ME ECS 5-12 CYL~~

Item Name: ENGINE CONTROL

Projection:

Page No.: 3 (225)

Info. No.: 7B4200

Item Id.: 5260077-4

Final User Info. No.:

Final User Description: ME ECS 7 CYL

Final User Ident No.: 4H-12760

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	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 4 (225)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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2	Reference list
3	Index
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5	Table of contents
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10	I/O list
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24	Common Control Signals cable overview
25	Common Control Signals cable overview
26	Stop signal from Local Telegraph
27	Turning Gear engaged signals
28	Turning Gear disengaged signals
29	Start Air Distribution system blocked signals
30	Start Air Distribution system blocked signals
31	Main starting air valve in service signals
32	Main starting valve blocked signals
33	Slowturn valve signal
34	Main starting valve control signals
35	Lubricator activation back up signals
36	Speed signal from Local Telegraph
37	Scavenge air pressure signals
38	Control air pressure signals
39	Starting air pressure signals
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44	Pump 2 control circuit
45	Pump 3 control circuit
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47	Pump 4 and 5 astern signals
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53	Local Operating Panel interface
54	Local Operating Panel interface
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58	Local Operating Panel interface
59	Local Operating Panel interface

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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Iten Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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66	Auxiliary blower 2
67	Auxiliary blower 3
68	Auxiliary blower 4
69	Auxiliary blower 5
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91	ME ECS ECC-1, Network A - ACU-1, ECU-A, ECU-B
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93	ME ECS ECC-3, Network A - CCU-7, CCU-9, CCU-11
94	ME ECS ECC-3, Network A - CCU-12, CCU-10, CCU-8
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96	ME ECS ECC-2, Network A - CCU-6, CCU-4, CCU-2
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99	ME ECS ECC-2, Network B - ACU-1, ECU-A, ECU-B
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Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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108	ME ECS - Layout of Cables to/from Tacho A & Tacho B - 10 Cylinder
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110	ME ECS - Layout of Cables to/from Tacho A & Tacho B - 9 Cylinder (4 + 5 Configuration)
111	ME ECS - Layout of Cables to/from Tacho A & Tacho B - 8 Cylinder
112	ME ECS - Layout of Cables to/from Tacho A & Tacho B - 7 Cylinder
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116	ME ECS ECC-1, Tacho A - ECU-A, ECU-B
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118	ME ECS ECC-3, Tacho A - CCU-7, CCU-9
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121	ME ECS ECC-3, Tacho A - X3TSA-A & ECC2 Tacho A - X2TSA-A
122	ME ECS ECC-2, Tacho A - CCU-1, CCU-3
123	ME ECS ECC-2, Tacho A - CCU-5, CCU-6
124	ME ECS ECC-2, Tacho A - CCU-4, CCU-2
125	ME ECS ECC-1, Tacho B Encoder Box connections
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127	ME ECS ECC-1, Tacho B - X3TSA-A & ECC3 Tacho A - X2TSA-A
128	ME ECS ECC-3, Tacho B - CCU-7, CCU-9
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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Iten Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O LIST

I/O LIST	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
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	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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CAD Drawing - do not correct by hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ACU-1	J01		Power supply A Power supply B	Power	UPS-B-X1	137/5
-ACU-1	J03		Power out 2A	Power	-ZV1202-A	48/1
-ACU-1	J06		Power out 2A	Power	LOP-X	58/2
-ACU-1	J07		Power out 2A	Power	LOP-X	57/3
-ACU-1	J08		Power out 2A	Power	LOP-X	57/6
-ACU-1	J09		Supply for prop-valve control amplifier out 10A	Power	-XC 1240-1	43/1
-ACU-1	J21	ID 1111-A	Main starting Valve Blocked input	DI		32/2
-ACU-1	J22	ID 1110-A	Turning Gear engaged input (indication)	DI		27/2
-ACU-1	J23	ID 1109-A	Turning Gear disengaged input	DI		28/2
-ACU-1	J24	ID 1112-A	Main starting Valve "In Service" input	DI		31/2
-ACU-1	J25	ID 1116-A	Start Air Distribution System in Service	DI		30/2
-ACU-1	J26	ID 2158-A	Lamp Test	DI		60/3
-ACU-1	J27	ID 1236	Leakage from hydraulic unit - leak shutdown level (NO)	DI	-LS 1236	49/2
-ACU-1	J31	ID 1201-1	Hydraulic pressure after non-return valve	AI		43/6
-ACU-1	J32	ID 1204-1	Lube oil pressure at pump inlet after filter	AI		43/7
-ACU-1	J34	ID 1222-1	Swash-plate position feedback	AI	-ZT 1222-1	43/4
-ACU-1	J36	ID 8503-A	Control air pressure	AI		38/2
-ACU-1	J37	ID 8501-A	Starting air pressure	AI		39/2
-ACU-1	J40	ID 8621-1	Blower 1 remote/local-fail	DI		65/1
-ACU-1	J41	ID 8623-1	Blower 1 running	DI		65/3
~~-ACU-1~~	~~J42~~	~~ID 8621-4~~	~~Blower 4 remote/local-fail~~	~~DI~~		~~68/1~~
~~-ACU-1~~	~~J43~~	~~ID 8623-4~~	~~Blower 4 running~~	~~DI~~		~~68/3~~
-ACU-1	J44	ID 1212-A	Start up pump 1 remote/local-fail	DI		63/1
-ACU-1	J45	ID 1213-A	Start up pump 1 running	DI		63/3
-ACU-1	J47	ID 1202-A	System by-pass 1202-A supervision	Power		48/3
-ACU-1	J49	ID 2106-A	Load Limitation - local indication	DO	LOP-X	58/7
-ACU-1	J50	ID 2107-A	Start Failure	DO	LOP-X	60/1
-ACU-1	J51	ID 1264-A	Aux. Blowers Warning	DO	LOP-X	58/5
-ACU-1	J52	ID 1263-A	Aux. Blowers Running	DO	LOP-X	58/4
-ACU-1	J53	ID 2181-A	Turning Gear Disengaged	DO	LOP-X	57/2
-ACU-1	J60	ID 2108	Start blocked (for LOP indication)	DO		56/2
-ACU-1	J61	ID 1210-1	Start up pump 1 start/stop	DO		63/4
-ACU-1	J65	Line A	Network line A	Line A	ECC-2-R.A	91/3
-ACU-1	J66	Line B	Network line B	Line B	ECC-1-XNET-B	99/3
-ACU-1	J70	ID 1240-1	Swash-plate command (set point)	AO		43/2
-ACU-1	J80	ID 1202-A	System by-pass valve solenoid A	DO		48/2
~~-ACU-1~~	~~J81~~	~~ID 8620-4~~	~~Blower 4 start/stop~~	~~DO~~	~~AUXB-4-X2~~	~~68/4~~
-ACU-1	J82	ID 8620-1	Blower 1 start/stop	DO	AUXB-1-X2	65/4
-ACU-1	J83	ID 2210-A	Engine not Ready Output for the LOP	DO		58/3
-ACU-1	J84	ID 1116-A	Start air distribution system in service	DO		57/4
-ACU-1	J85	ID 1112-A	Main Starting Valve in service position	DO		57/7

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 10 (225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ACU-2	J01		Power supply A Power supply B	Power	UPS-B-X1	137/7
-ACU-2	J09		Supply for prop-valve control amplifier out 10A	Power	-XC 1240-2	44/1
-ACU-2	J21	ID 1111-B	Main starting Valve Blocked input	DI		32/6
-ACU-2	J22	ID 1110-B	Turning Gear engaged input (indication)	DI		27/6
-ACU-2	J23	ID 1109-B	Turning Gear disengaged input	DI		28/6
-ACU-2	J24	ID 1112-B	Main starting Valve "In Service" input	DI		31/6
-ACU-2	J25	ID 1116-B	Start Air Distribution System in Service	DI		30/6
-ACU-2	J27	ID 1235	Leakage from hydraulic unit - leak alarm level (NO)	DI	-LS 1235	49/7
-ACU-2	J31	ID 1201-2	Hydraulic pressure after non-return valve	AI		44/6
-ACU-2	J32	ID 1204-2	Lube oil pressure at pump inlet after filter	AI		44/7
~~-ACU-2~~	~~J33~~	~~ID 1204-4~~	~~Lube oil pressure at pump inlet after inlet~~	~~AI~~		46/1
-ACU-2	J34	ID 1222-2	Swash-plate position feedback	AI	-ZT 1222-2	44/4
-ACU-2	J36	ID 8503-B	Control air pressure	AI		38/6
-ACU-2	J37	ID 8501-B	Starting air pressure	AI		39/6
-ACU-2	J40	ID 8621-2	Blower 2 remote/local-fail	DI		66/1
-ACU-2	J41	ID 8623-2	Blower 2 running	DI		66/3
~~-ACU-2~~	~~J42~~	~~ID 8621-5~~	~~Blower 5 remote/local-fail~~	~~DI~~		69/1
~~-ACU-2~~	~~J43~~	~~ID 8623-5~~	~~Blower 5 running~~	~~DI~~		69/3
-ACU-2	J44	ID 1212-B	Start up pump 2 remote/local-fail	DI		64/1
-ACU-2	J45	ID 1213-B	Start up pump 2 running	DI		64/3
-ACU-2	J61	ID 1210-2	Start up pump 2 start/stop	DO		64/4
-ACU-2	J65	Line A	Network line A	Line A	ECC-2-R.A	92/4
-ACU-2	J66	Line B	Network line B	Line B	ECC-1-R.A	100/4
-ACU-2	J70	ID 1240-2	Swash-plate command (set point)	AO		44/2
~~-ACU-2~~	~~J81~~	~~ID 8620-5~~	~~Blower 5 start/stop~~	~~DO~~	~~AUXB-5-X2~~	69/4
-ACU-2	J82	ID 8620-2	Blower 2 start/stop	DO	AUXB-2-X2	66/4

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 11 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by Hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ACU-3	J01		Power supply A Power supply B	Power	UPS-B-X1	138/1
-ACU-3	J03		Power out 2A	Power	-ZV1202-B	48/6
-ACU-3	J09		Supply for prop-valve control amplifier out 10A	Power	-XC 1240-3	45/1
~~-ACU-3~~	~~J27~~	~~ID 8775~~	~~TC cut out - Compressor valve open~~	~~DI~~		175/2
-ACU-3	J31	ID 1201-3	Hydraulic pressure after non-return valve	AI		45/6
-ACU-3	J32	ID 1204-3	Lube oil pressure at pump inlet after filter	AI		45/7
~~-ACU-3~~	~~J33~~	~~ID 1204-5~~	~~Lube oil pressure at pump inlet after inlet~~	~~AI~~		46/6
-ACU-3	J34	ID 1222-3	Swash-plate position feedback	AI	-ZT 1222-3	45/4
~~-ACU-3~~	~~J35~~	~~ID 8776~~	~~TC cut out - Compressor valve closed~~	~~DI~~		175/3
~~-ACU-3~~	~~J36~~	~~ID 8777~~	~~TC cut out - Turbine valve open~~	~~DI~~		175/5
~~-ACU-3~~	~~J37~~	~~ID 8778~~	~~TC cut out - Turbine valve closed~~	~~DI~~	~~JB-TC-CUT-OUT-X1~~	175/6
~~-ACU-3~~	~~J40~~	~~ID 8621-3~~	~~Blower 3 remote/local fail~~	~~DI~~		67/1
~~-ACU-3~~	~~J41~~	~~ID 8623-3~~	~~Blower 3 running~~	~~DI~~		67/3
-ACU-3	J47	ID 1202-B	System by-pass 1202-B supervision	DI		48/8
-ACU-3	J65	Line A	Network line A	Line A	ECC-2-R.A	92/6
-ACU-3	J66	Line B	Network line B	Line B	ECC-1-R.A	100/6
-ACU-3	J70	ID 1240-3	Swash-plate command (set point)	AO		45/2
-ACU-3	J80	ID 1202-B	System by-pass valve solenoid B	DO		48/7
~~-ACU-3~~	~~J82~~	~~ID 8620-3~~	~~Blower 3 start/stop~~	~~DO~~	~~AUXB-3-X2~~	67/4
-CCU-1	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	140/1
-CCU-1	J32	ID 2002	Shut Down from Safety system	DI		162/1
-CCU-1	J40	ID 4001-A	Marker master - Tacho set A	DI		122/1
-CCU-1	J41	ID 4002-A	Marker Slave - Tacho set A	DI		122/2
-CCU-1	J42	ID 4003-A	Quadrature 1 - Tacho set A	DI		122/3
-CCU-1	J43	ID 4004-A	Quadrature 2 - Tacho set A	DI		122/4
-CCU-1	J44	ID 4001-B	Marker master - Tacho set B	DI	ECC-3-X3TSA-B	132/1
-CCU-1	J45	ID 4002-B	Marker Slave - Tacho set B	DI	ECC-3-X3TSA-B	132/2
-CCU-1	J46	ID 4003-B	Quadrature 1 - Tacho set B	DI	ECC-3-X3TSA-B	132/3
-CCU-1	J47	ID 4004-B	Quadrature 2 - Tacho set B	DI	ECC-3-X3TSA-B	132/4
-CCU-1	J65	Line A	Network line A	Line A	ECC-2-XNET-A	95/3
-CCU-1	J66	Line B	Network line B	Line B	ECC-1-XNET-B	103/3

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 12 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CCU-2	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	140/3
-CCU-2	J40	ID 4001-A	Marker master - Tacho set A	Power		124/5
-CCU-2	J41	ID 4002-A	Marker Slave - Tacho set A	Power		124/6
-CCU-2	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		124/7
-CCU-2	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		124/7
-CCU-2	J44	ID 4001-B	Marker master - Tacho set B	Power		134/5
-CCU-2	J45	ID 4002-B	Marker Slave - Tacho set B	Power		134/6
-CCU-2	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		134/7
-CCU-2	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		134/7
-CCU-2	J65	Line A	Network line A	Line A	ECC-2-XNET-A	96/6
-CCU-2	J66	Line B	Network line B	Line B	-EICU-B-XNET-B	104/6
-CCU-3	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	140/5
-CCU-3	J40	ID 4001-A	Marker master - Tacho set A	Power		122/5
-CCU-3	J41	ID 4002-A	Marker Slave - Tacho set A	Power		122/6
-CCU-3	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		122/7
-CCU-3	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		122/7
-CCU-3	J44	ID 4001-B	Marker master - Tacho set B	Power	ECC-3-X3TSA-B	132/5
-CCU-3	J45	ID 4002-B	Marker Slave - Tacho set B	Power	ECC-3-X3TSA-B	132/6
-CCU-3	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power	ECC-3-X3TSA-B	132/7
-CCU-3	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power	ECC-3-X3TSA-B	132/7
-CCU-3	J65	Line A	Network line A	Line A	ECC-2-XNET-A	95/4
-CCU-3	J66	Line B	Network line B	Line B	ECC-1-XNET-B	103/4
-CCU-4	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	140/7
-CCU-4	J40	ID 4001-A	Marker master - Tacho set A	Power		124/1
-CCU-4	J41	ID 4002-A	Marker Slave - Tacho set A	Power		124/2
-CCU-4	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		124/3
-CCU-4	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		124/4
-CCU-4	J44	ID 4001-B	Marker master - Tacho set B	Power		134/1
-CCU-4	J45	ID 4002-B	Marker Slave - Tacho set B	Power		134/2
-CCU-4	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		134/3
-CCU-4	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		134/4
-CCU-4	J65	Line A	Network line A	Line A	ECC-2-XNET-A	96/4
-CCU-4	J66	Line B	Network line B	Line B	-EICU-B-XNET-B	104/4

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 13 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CCU-5	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	141/1
-CCU-5	J40	ID 4001-A	Marker master - Tacho set A	Power		123/1
-CCU-5	J41	ID 4002-A	Marker Slave - Tacho set A	Power		123/2
-CCU-5	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		123/3
-CCU-5	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		123/4
-CCU-5	J44	ID 4001-B	Marker master - Tacho set B	Power		133/1
-CCU-5	J45	ID 4002-B	Marker Slave - Tacho set B	Power		133/2
-CCU-5	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		133/3
-CCU-5	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		133/4
-CCU-5	J65	Line A	Network line A	Line A	ECC-2-XNET-A	95/6
-CCU-5	J66	Line B	Network line B	Line B	ECC-1-XNET-B	103/6
-CCU-6	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	141/3
-CCU-6	J40	ID 4001-A	Marker master - Tacho set A	Power		123/5
-CCU-6	J41	ID 4002-A	Marker Slave - Tacho set A	Power		123/6
-CCU-6	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		123/7
-CCU-6	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		123/7
-CCU-6	J44	ID 4001-B	Marker master - Tacho set B	Power		133/5
-CCU-6	J45	ID 4002-B	Marker Slave - Tacho set B	Power		133/6
-CCU-6	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		133/7
-CCU-6	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		133/7
-CCU-6	J65	Line A	Network line A	Line A	ECC-2-XNET-A	96/3
-CCU-6	J66	Line B	Network line B	Line B	-EICU-B-XNET-B	104/3
-CCU-7	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	141/5
-CCU-7	J40	ID 4001-A	Marker master - Tacho set A	Power		118/1
-CCU-7	J41	ID 4002-A	Marker Slave - Tacho set A	Power		118/2
-CCU-7	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		118/3
-CCU-7	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		118/4
-CCU-7	J44	ID 4001-B	Marker master - Tacho set B	Power	ECC-1-X3TSA-B	128/1
-CCU-7	J45	ID 4002-B	Marker Slave - Tacho set B	Power	ECC-1-X3TSA-B	128/2
-CCU-7	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power	ECC-1-X3TSA-B	128/3
-CCU-7	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power	ECC-1-X3TSA-B	128/4
-CCU-7	J65	Line A	Network line A	Line A	ECC-2-R.A	93/3
-CCU-7	J66	Line B	Network line B	Line B	ECC-1-R.A	101/3

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 14 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CCU-8	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	141/7
-CCU-8	J40	ID 4001-A	Marker master - Tacho set A	Power	ECC-2-X2TSA-A	120/5
-CCU-8	J41	ID 4002-A	Marker Slave - Tacho set A	Power	ECC-2-X2TSA-A	120/6
-CCU-8	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power	ECC-2-X2TSA-A	120/7
-CCU-8	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power	ECC-2-X2TSA-A	120/7
-CCU-8	J44	ID 4001-B	Marker master - Tacho set B	Power	ECC-2-X2TSA-B	130/5
-CCU-8	J45	ID 4002-B	Marker Slave - Tacho set B	Power	ECC-2-X2TSA-B	130/6
-CCU-8	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power	ECC-2-X2TSA-B	130/7
-CCU-8	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power	ECC-2-X2TSA-B	130/7
-CCU-8	J65	Line A	Network line A	Line A	ECC-2-R.A	94/6
-CCU-8	J66	Line B	Network line B	Line B	ECC-1-R.A	102/6
-CCU-9	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	142/1
-CCU-9	J40	ID 4001-A	Marker master - Tacho set A	Power		118/5
-CCU-9	J41	ID 4002-A	Marker Slave - Tacho set A	Power		118/6
-CCU-9	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		118/7
-CCU-9	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		118/7
-CCU-9	J44	ID 4001-B	Marker master - Tacho set B	Power	ECC-1-X3TSA-B	128/5
-CCU-9	J45	ID 4002-B	Marker Slave - Tacho set B	Power	ECC-1-X3TSA-B	128/6
-CCU-9	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power	ECC-1-X3TSA-B	128/7
-CCU-9	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power	ECC-1-X3TSA-B	128/7
-CCU-9	J65	Line A	Network line A	Line A	ECC-2-XNET-A	93/4
-CCU-9	J66	Line B	Network line B	Line B	ECC-1-XNET-B	101/4
-CCU-10	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	142/3
-CCU-10	J40	ID 4001-A	Marker master - Tacho set A	Power	ECC-2-X2TSA-A	120/1
-CCU-10	J41	ID 4002-A	Marker Slave - Tacho set A	Power	ECC-2-X2TSA-A	120/2
-CCU-10	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power	ECC-2-X2TSA-A	120/3
-CCU-10	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power	ECC-2-X2TSA-A	120/4
-CCU-10	J44	ID 4001-B	Marker master - Tacho set B	Power		130/1
-CCU-10	J45	ID 4002-B	Marker Slave - Tacho set B	Power		130/2
-CCU-10	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		130/3
-CCU-10	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		130/4
-CCU-10	J65	Line A	Network line A	Line A	ECC-2-R.A	94/4
-CCU-10	J66	Line B	Network line B	Line B	ECC-1-R.A	102/4

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 15 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CCU-11	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	142/5
-CCU-11	J40	ID 4001-A	Marker master - Tacho set A	Power		119/1
-CCU-11	J41	ID 4002-A	Marker Slave - Tacho set A	Power		119/2
-CCU-11	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		119/3
-CCU-11	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		119/4
-CCU-11	J44	ID 4001-B	Marker master - Tacho set B	Power		129/1
-CCU-11	J45	ID 4002-B	Marker Slave - Tacho set B	Power		129/2
-CCU-11	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		129/3
-CCU-11	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		129/4
-CCU-11	J65	Line A	Network line A	Line A	ECC-2-XNET-A	93/6
-CCU-11	J66	Line B	Network line B	Line B	ECC-1-XNET-B	101/6
-CCU-12	J01		Power Supply A - Power Supply B	Power	UPS-B-X1	142/7
-CCU-12	J40	ID 4001-A	Marker master - Tacho set A	Power		119/5
-CCU-12	J41	ID 4002-A	Marker Slave - Tacho set A	Power		119/6
-CCU-12	J42	ID 4003-A	Quadrature 1 - Tacho set A	Power		119/7
-CCU-12	J43	ID 4004-A	Quadrature 2 - Tacho set A	Power		119/7
-CCU-12	J44	ID 4001-B	Marker master - Tacho set B	Power		129/5
-CCU-12	J45	ID 4002-B	Marker Slave - Tacho set B	Power		129/6
-CCU-12	J46	ID 4003-B	Quadrature 1 - Tacho set B	Power		129/7
-CCU-12	J47	ID 4004-B	Quadrature 2 - Tacho set B	Power		129/7
-CCU-12	J65	Line A	Network line A	Line A	ECC-2-R.A	94/3
-CCU-12	J66	Line B	Network line B	Line B	ECC-1-R.A	102/3
-CCU-n	J09		Power out	DI	-XC 4107-n	74/1
-CCU-n	J21	ID 8285-n	Cyl. Lube Oil Supply Fail (level/flow)	DI	-LS 8285-n	77/4
-CCU-n	J30	ID 4102-n	ELFI/FIVA Position Feedback	AI	-ZT 4102-n	74/5
-CCU-n	J31	ID 4114-n	Fuel Pump Plunger Position	AI	-ZT 4114-n	76/3
-CCU-n	J32	ID 2002	Shut Down from Safety system	DI		162/6
-CCU-n	J33	ID 4112 / 8712	H.P. Fuel Pipe Leakage (NO) (option) Relief disc	AI	-XS 8712-n	74/8
-CCU-n	J34	ID 4111 / 4117	Exhaust Valve Position / Exhaust Valve Air Spring Pressure	AI	-ZT 4111-n	76/6
-CCU-n	J35	ID 3030	Noise detection	AI		78/6
-CCU-n	J48	ID	Spare			78/1
-CCU-n	J50	ID 1120-n	Start Air Pilot Valve	DO	-ZV 1120-n	77/7
-CCU-n	J51	ID 8281-n	Lubricator activation		-ZV 8281-n	77/2
-CCU-n	J52	ID 8282-n	Lubricator Feedback		-ZT 8282-n	77/3
-CCU-n	J53	ID	Spare			78/2
-CCU-n	J70	ID 4107-n	ELFI Pilot Valve Set Point	DI	-XC 4107-n	74/2
-CCU-n	J71	ID	Spare			78/3
-CCU-n	J103			DI		74/3

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 16 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-EC-MOP-A	EC-MOP-A	Power	24VDC Power Supply		UPS-A-X1	143/2
-EC-MOP-A	Network A	Line A	Network line A			89/6
-EC-MOP-A	Network B	Line B	Network line B			97/3
-EC-MOP-B	EC-MOP-B	Power	24VDC Power Supply		UPS-B-X1	143/7
-EC-MOP-B	Network A	Line A	Network line A			89/3
-EC-MOP-B	Network B	Line B	Network line B			97/6

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 17 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ECU-A	J01		Power supply A Power supply B	Power	UPS-B-X1	137/1
-ECU-A	J03		Power out 2A	Power	-ZV 1114	33/2
-ECU-A	J04		Power out 2A	Power	-ZV 1121-A	34/2
-ECU-A	J05		Power out 2A	Power	LOP-X	52/2
-ECU-A	J06		Power out 2A	Power	LOP-X	52/4
-ECU-A	J07		Power out 2A	Power	LOP-X	59/1
~~-ECU-A~~	~~J08~~		~~Power out 2A~~	~~Power~~	~~-ZV 1243-A~~	47/1
-ECU-A	J21	ID 2152-A	Increase limitation - Local Control Panel	DI		59/3
-ECU-A	J22	ID 2151-A	Stop - Local control Panel	DI		26/2
-ECU-A	J23	ID 2114-A	Air Run - Local Control Panel	DI		54/1
-ECU-A	J24	ID 2115-A	Slow Turning - Local Control Panel	DI		55/1
-ECU-A	J25	ID 2153-A	Take Command - Local Control Panel	DI		52/6
-ECU-A	J26	ID 2150-A	Speed Set from Local Control Panel	AI	-LT-XC 2150-A	36/2
-ECU-A	J32	ID 1117-A	Start Air Distribution System Blocked	DI		29/2
-ECU-A	J34	ID 2001-A	Shut Down from Safety system	DI		160/1
-ECU-A	J35	ID 8601-A	Scavenge air pressure	AI		37/2
-ECU-A	J40	ID 4001-A	Marker master - Tacho set A	DO	-TSA-A	116/1
-ECU-A	J41	ID 4002-A	Marker Slave - Tacho set A	DO		116/2
-ECU-A	J42	ID 4003-A	Quadrature 1 - Tacho set A	DO		116/3
-ECU-A	J43	ID 4004-A	Quadrature 2 - Tacho set A	DO		116/4
-ECU-A	J44	ID 4001-B	Marker master - Tacho set B	DO		126/5
-ECU-A	J45	ID 4002-B	Marker Slave - Tacho set B	DO		126/6
-ECU-A	J46	ID 4003-B	Quadrature 1 - Tacho set B	DO		126/7
-ECU-A	J47	ID 4004-B	Quadrature 2 - Tacho set B	DO		126/7
-ECU-A	J52	ID 8287-A	Lubricator activation back up	DO	-ZV 8287-A	35/2
-ECU-A	J61	ID 2005-A	Reset shut down - from ECS	DO		161/2
-ECU-A	J65	Line A	Network line A	Line A	ECC-2-XNET-A	91/4
-ECU-A	J66	Line B	Network line B	Line B	-EICU-B-XNET-B	99/4
-ECU-A	J71	ID 8501	Starting Air Pressure for LOP indication	AO		53/6
-ECU-A	J80	ID 1114	Slowturning valve	DO		33/3
~~-ECU-A~~	~~J81~~	~~ID 1243-A~~	~~Force driven pump astern pump no.4~~	~~DO~~		47/3
-ECU-A	J82	ID 1121-A	Output for Main Starting Valve control	DO		34/3
-ECU-A	J83	ID 2206-A	Manual Slow Down Request, at local	DO		52/3
-ECU-A	J84	ID 2154-A	Forced Command Take over - LOP	DO		52/5
-ECU-A	J85	ID 2159-A	Increase limitation - for LOP indication	DO		59/2

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 18 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ECU-B	J01		Power supply A Power supply B	Power	UPS-B-X1	137/3
-ECU-B	J04		Power out 2A	Power	-ZV 1121-B	34/6
~~-ECU-B~~	~~J08~~		~~Power out 2A~~	~~Power~~	~~-ZV 1243-B~~	47/6
-ECU-B	J21	ID 2152-B	Increase limitation - Local Control Panel	DI		59/7
-ECU-B	J22	ID 2151-B	Stop - Local control Panel	DI		26/6
-ECU-B	J23	ID 2114-B	Air Run - Local Control Panel	DI		54/6
-ECU-B	J24	ID 2115-B	Slow Turning - Local Control Panel	DI		55/6
-ECU-B	J25	ID 2153-B	Take Command - Local Control Panel	DI		53/1
-ECU-B	J26	ID 2150-B	Speed Set from Local Control Panel	AI	-LT-XC 2150-B	36/6
-ECU-B	J32	ID 1117-B	Start Air Distribution System Blocked	DI		29/6
-ECU-B	J34	ID 2001-B	Shut Down from Safety system	DI		160/6
-ECU-B	J35	ID 8601-B	Scavenge air pressure	AI		37/6
-ECU-B	J40	ID 4001-A	Marker master - Tacho set A	DO		116/5
-ECU-B	J41	ID 4002-A	Marker Slave - Tacho set A	DO		116/6
-ECU-B	J42	ID 4003-A	Quadrature 1 - Tacho set A	DO		116/7
-ECU-B	J43	ID 4004-A	Quadrature 2 - Tacho set A	DO		116/7
-ECU-B	J44	ID 4001-B	Marker master - Tacho set B	DO	-TSA-B	126/1
-ECU-B	J45	ID 4002-B	Marker Slave - Tacho set B	DO		126/2
-ECU-B	J46	ID 4003-B	Quadrature 1 - Tacho set B	DO		126/3
-ECU-B	J47	ID 4004-B	Quadrature 2 - Tacho set B	DO		126/4
-ECU-B	J52	ID 8287-B	Lubricator activation back up	DO	-ZV 8287-B	35/6
-ECU-B	J61	ID 2005-B	Reset shut down - from ECS	DO		161/7
-ECU-B	J65	Line A	Network line A	Line A	ECC-2-XNET-A	91/6
-ECU-B	J66	Line B	Network line B	Line B	-EICU-B-XNET-B	99/6
-ECU-B	J71	ID 1250	Hydraulic Pressure for LOP indication	AO		56/6
~~-ECU-B~~	~~J81~~	~~ID 1243-B~~	~~Force driven pump astern pump no.5~~	~~DO~~		47/7
-ECU-B	J82	ID 1121-B	Output for Main Starting Valve control	DO		34/8

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 19 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-EICU-A	J01		Power supply A Power supply B	Power	UPS-B-X1	139/1
-EICU-A	J02	ID 2201-A	Power failure signal (NC)	Power	AMS	150/2
-EICU-A	J23	ID 2142-A	Increase limitation - ECR	DI		164/1
-EICU-A	J24	ID 2205-A	Slow Down request (pre-warning)	DI		151/1
-EICU-A	J25	ID 2010-A	Slow down command	DI		152/1
-EICU-A	J27	ID 2140-A	Speed set from ECR	DI	ECR	165/2
-EICU-A	J32	ID 2141-A	Stop - ECR	DI		166/1
-EICU-A	J34	ID 2143-A	Take command - ECR	DI		167/1
~~-EICU-A~~	~~J35~~	~~ID 3040~~	~~Min. engine speed for SG~~	~~AI~~		177/1
~~-EICU-A~~	~~J40~~	~~ID 1190-A~~	~~Shaft Generator Request~~	~~DI~~		177/2
~~-EICU-A~~	~~J49~~	~~ID 1180-A~~	~~Shaft generator allowed~~	~~DO~~	~~PMS-XPMS~~	177/3
-EICU-A	J52	ID 2210-A	Engine stopped	DO		153/1
-EICU-A	J53	ID 2180-A	Load Limitation - indication ECR	DO	ECR	168/2
-EICU-A	J60	ID 2021-A	Cancellable Shut Down	DO		154/2
-EICU-A	J61	ID 2202-A	ME Common Alarm	DO		155/2
-EICU-A	J65	Line A	Network line A	Line A	ECC-2-R.A	90/3
-EICU-A	J66	Line B	Network line B	Line B	ECC-1-R.A	98/6
-EICU-A	J68	RS422	Serial Communication Signals	AI	RCS	163/2
~~-EICU-A~~	~~J80~~	~~ID 1181-A~~	~~Shaft Generator Permission~~	~~DO~~	~~PMS-XPMS~~	177/4
-EICU-A	J81	ID 2020-A	Non-cancelable shut Down	DO	SS	156/2
-EICU-A	J82	ID 2207-A	Slow down request	DO	SS	157/2
-EICU-A	J83	ID 2130-A	Ahead command (commanded running direction)	DO	AMS	158/2
-EICU-A	J84	ID 2131-A	Astern command (commanded running direction)	DO	AMS	159/2

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 20 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-EICU-B	J01		Power supply A Power supply B	Power	UPS-B-X1	139/3
-EICU-B	J02	ID 2201-B	Power failure signal (NC)	Power	AMS	150/7
-EICU-B	J23	ID 2142-B	Increase limitation - ECR	DI		164/6
-EICU-B	J24	ID 2205-B	Slow Down request (pre-warning)	DI		151/6
-EICU-B	J25	ID 2010-B	Slow down command	DI		152/6
-EICU-B	J27	ID 2140-B	Speed set from ECR	DI	ECR	165/7
-EICU-B	J32	ID 2141-B	Stop - ECR	DI		166/6
-EICU-B	J34	ID 2143-B	Take command - ECR	DI		167/6
-EICU-B	J37	ID 2904	ECS isolation level	AI	UPS-A-X4	145/1
~~-EICU-B~~	~~J49~~	~~ID 1103-B~~	~~WHR Request~~	~~DI~~		173/6
~~-EICU-B~~	~~J50~~	~~ID 1102-B~~	~~WHR Allowed~~	~~DO~~	~~PMS-XPMS~~	173/7
-EICU-B	J52	ID 2210-B	Engine stopped	DO		153/6
-EICU-B	J53	ID 2180-B	Load Limitation - indication ECR	DO	ECR	168/7
-EICU-B	J60	ID 2021-B	Cancellable Shut Down	DO		154/7
-EICU-B	J61	ID 2202-B	ME Common Alarm	DO		155/7
-EICU-B	J65	Line A	Network line A	Line A	ECC-2-R.A	90/6
-EICU-B	J66	Line B	Network line B	Line B	ECC-1-R.A	98/3
-EICU-B	J68	RS422	Serial Communication Signals	DO	RCS	163/7
~~-EICU-B~~	~~J80~~	~~ID 1104-B~~	~~WHR Permission~~	~~DO~~	~~PMS-XPMS~~	173/8
-EICU-B	J81	ID 2020-B	Non-cancelable shut Down	DO	SS	156/7
-EICU-B	J82	ID 2207-B	Slow down request	DO	SS	157/7
-EICU-B	J83	ID 2130-B	Ahead command (commanded running direction)	DO	AMS	158/7
-EICU-B	J84	ID 2131-B	Astern command (commanded running direction)	DO	AMS	159/7
~~-MOP-A~~	Network A	Line A	Network line A			~~89/6~~
-MOP-A	Network B	Line B	Network line B			97/3
-MOP-A PC	MOP-A Computer	Power	24VDC Power Supply		JB MOP-A-X	144/1
-MOP-A Screen	MOP-A Screen	Power	24VDC Power Supply		JB MOP-A-X	144/2
-MOP-B	Network A	Line A	Network line A			89/3
-MOP-B	Network B	Line B	Network line B			97/6
-MOP-B PC	MOP-B Computer	Power	24VDC Power Supply		JB MOP-B-X	144/6
~~-MOP-B Screen~~	MOP-B Screen	Power	24VDC Power Supply		JB MOP-B-X	~~144/7~~
-PMI	J01		Power supply A Power supply B	Power	UPS-B-X1	138/8

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 21 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-SCU	J01		Power supply A Power supply B	Power	UPS-B-X1	130/3
-SCU	J20	ID 8750	Var. Bypass Amp. OK	DI		171/6
-SCU	J21	ID 8751	Var. Bypass Position	AI		171/4
-SCU	J26	ID 8772	Increase Exhaust Energy	AI	WHR-XWHR	173/3
-SCU	J35	ID 8801-1	TC speed #1	AI	-XC 8801-1	171/1
-SCU	J43	ID 8770	Power Turbine Trip	DI		173/1
-SCU	J65	Line A	Network line A	Line A	ECC-2-R.A	92/3
-SCU	J66	Line B	Network line B	Line B	ECC-1-R.A	100/3
-SCU	J70	ID 8755	Var. Bypass Setpoint	AO		171/5
-SCU	J71	ID 8771	Available Exhaust Energy	AO		173/2

I/O list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 22 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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COMMON CONTROL SIGNALS

COMMON CONTROL SIGNALS	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 23 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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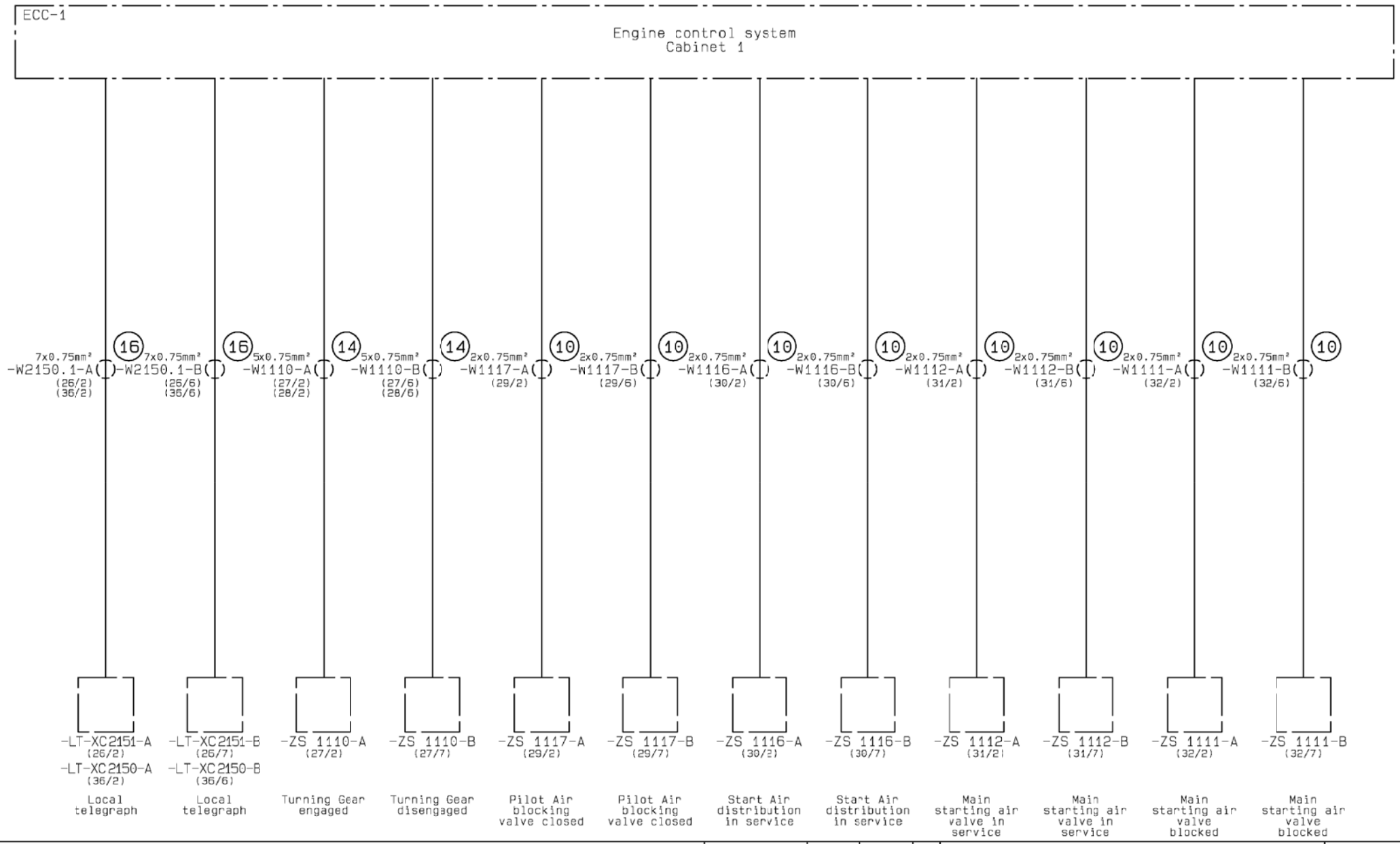

Common Control Signals cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 24 (225)

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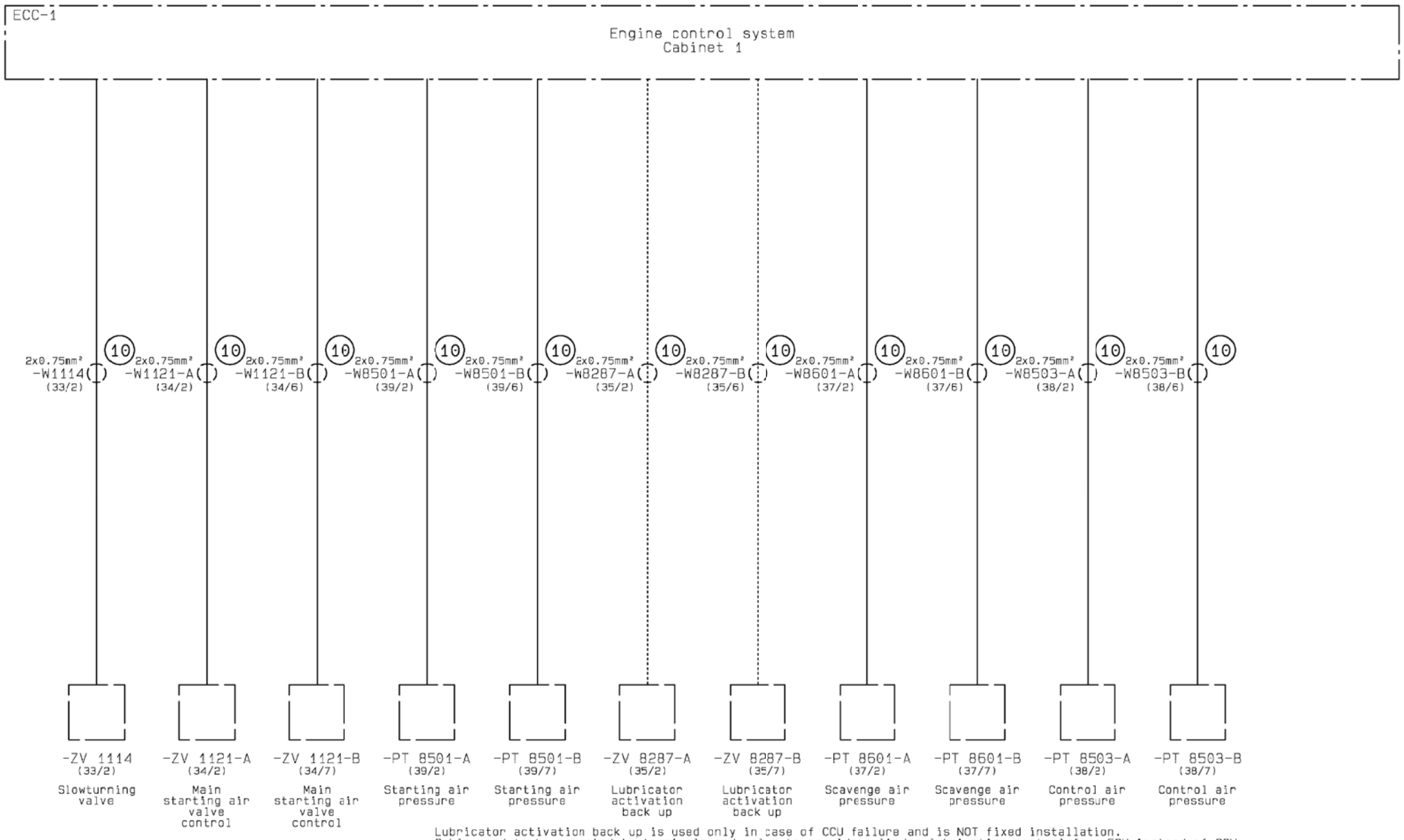
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing



Lubricator activation back up is used only in case of CCU failure and is NOT fixed installation.
Cable need to be conected to terminals and valve to provide cylinder lubrication control from ECU instead of CCU.

Common Control Signals cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 25 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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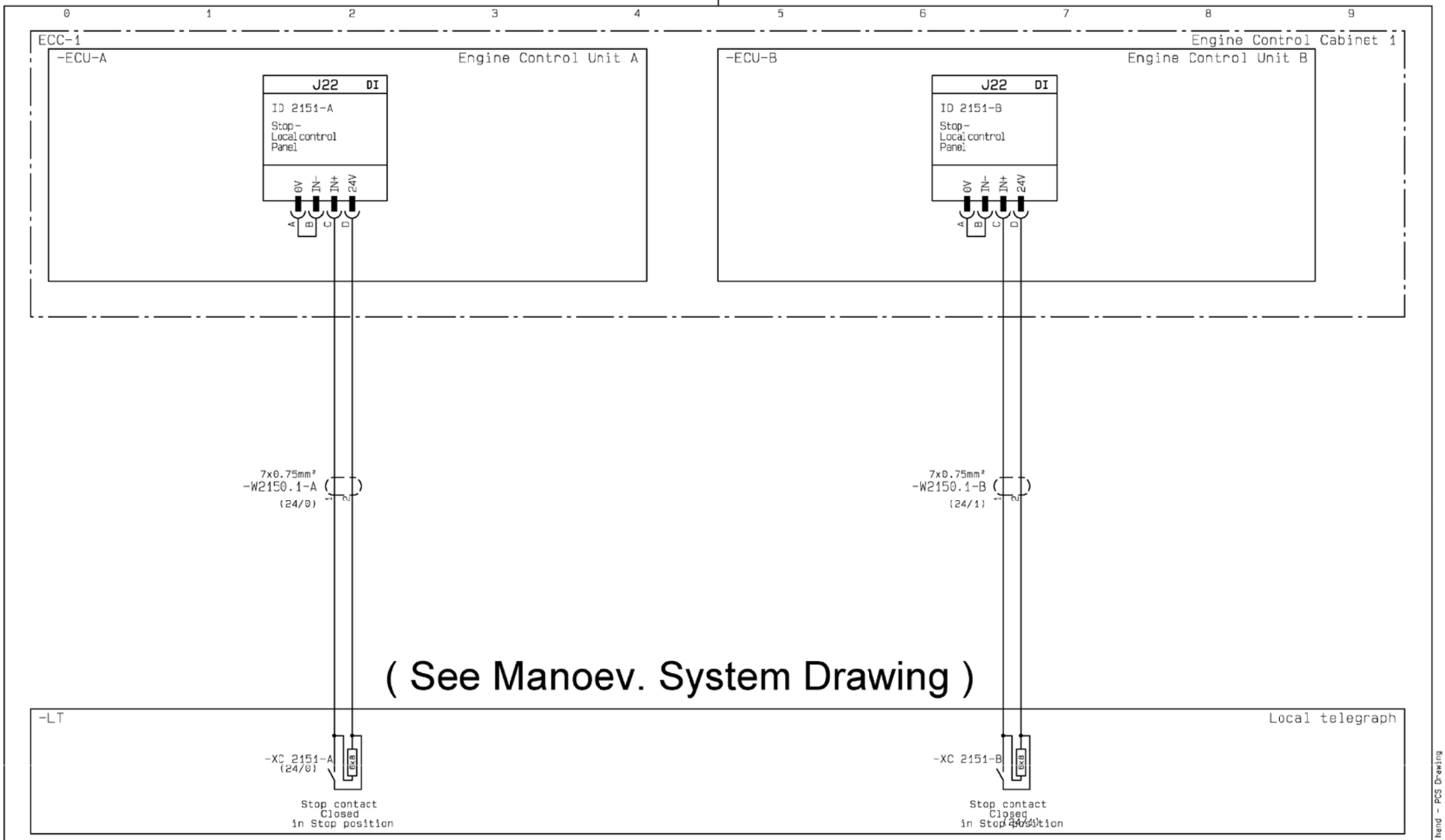
CAD Drawing - do not correct by Hand - PCS Drawing



Stop signal from Local Telegraph

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		26 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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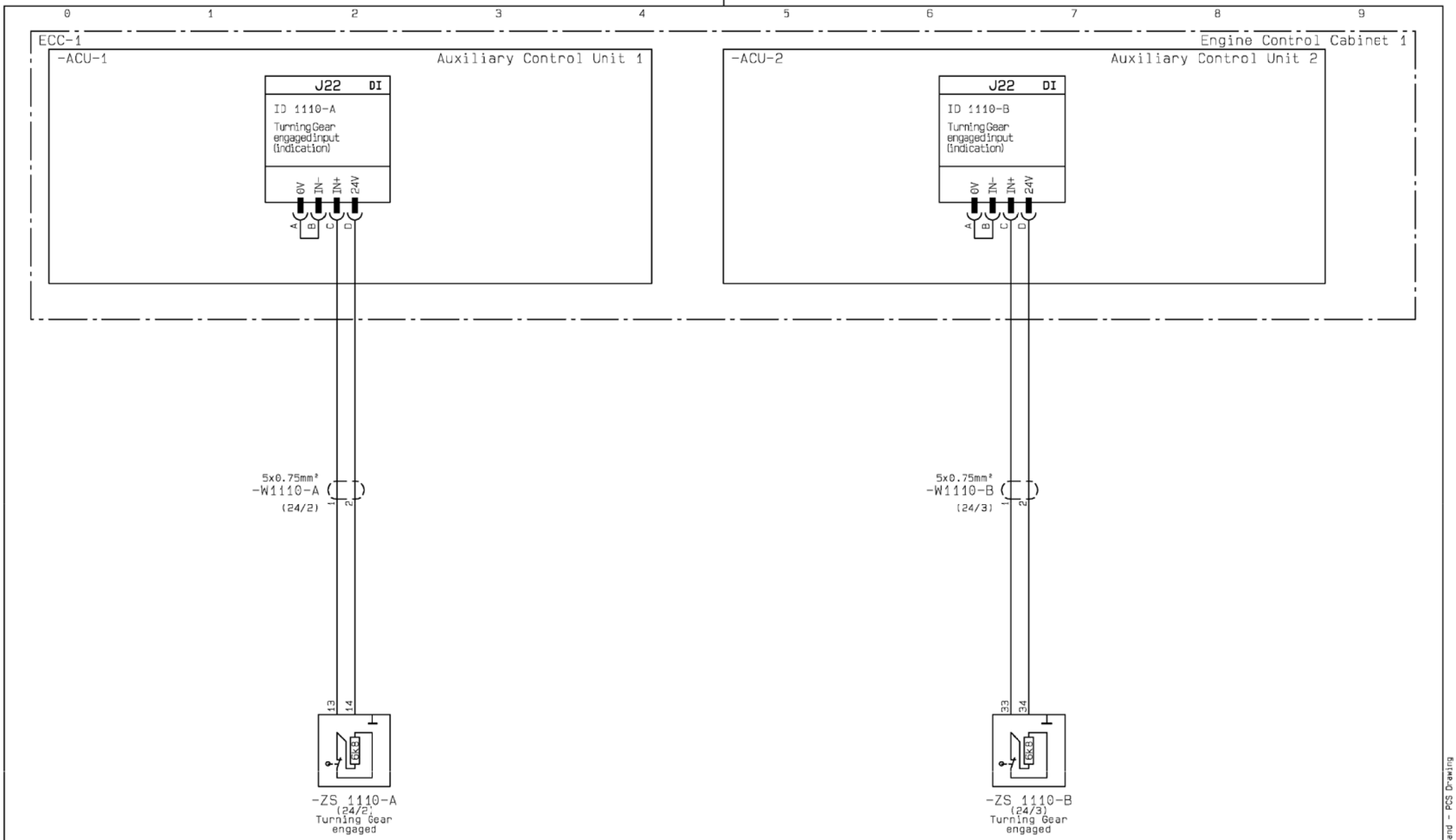
CAD Drawing - do not correct by hand - PCS Drawing



Turning Gear engaged signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		27 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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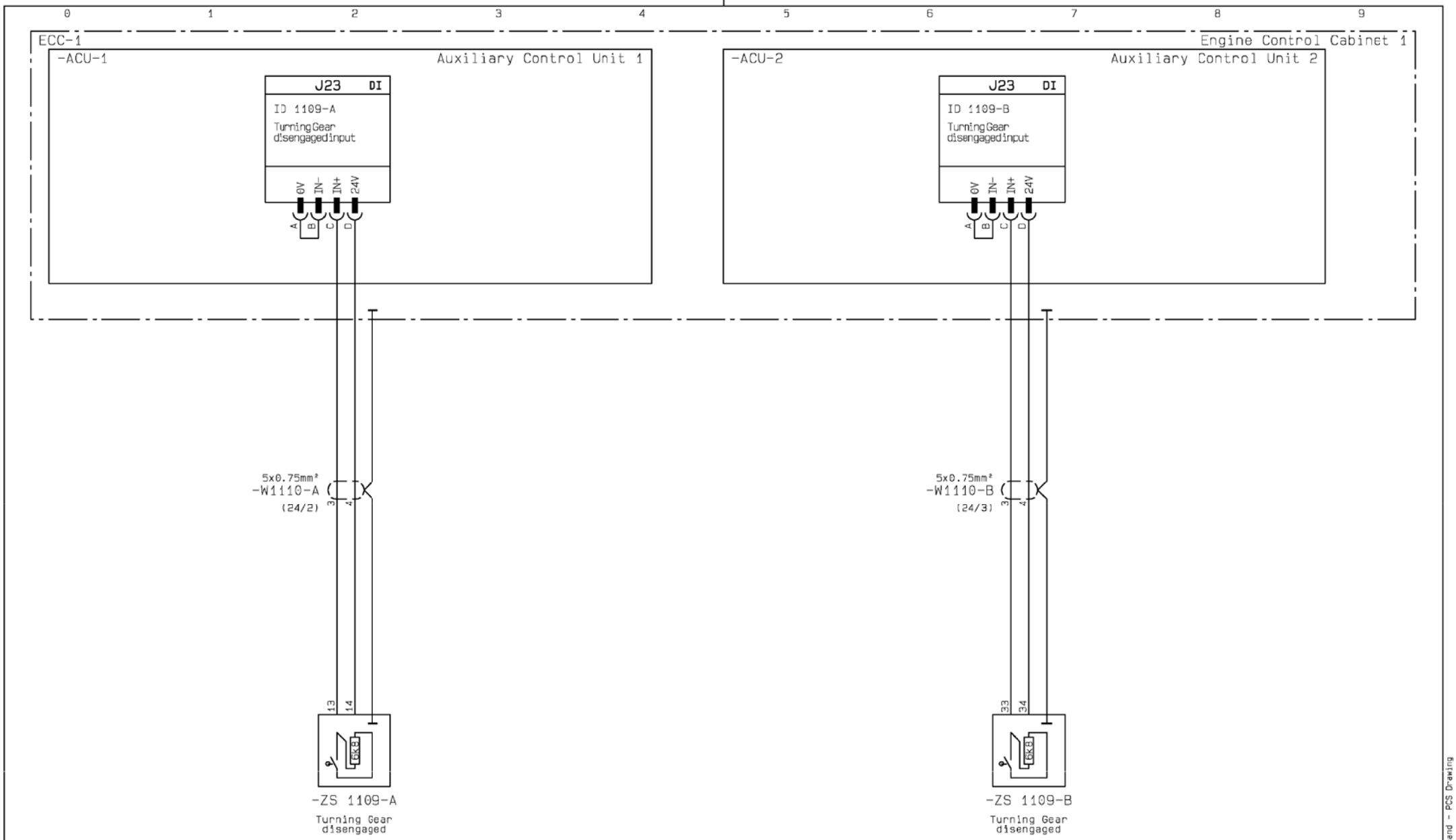
CAD Drawing - do not correct by hand - PCS Drawing



Turning Gear disengaged signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		28 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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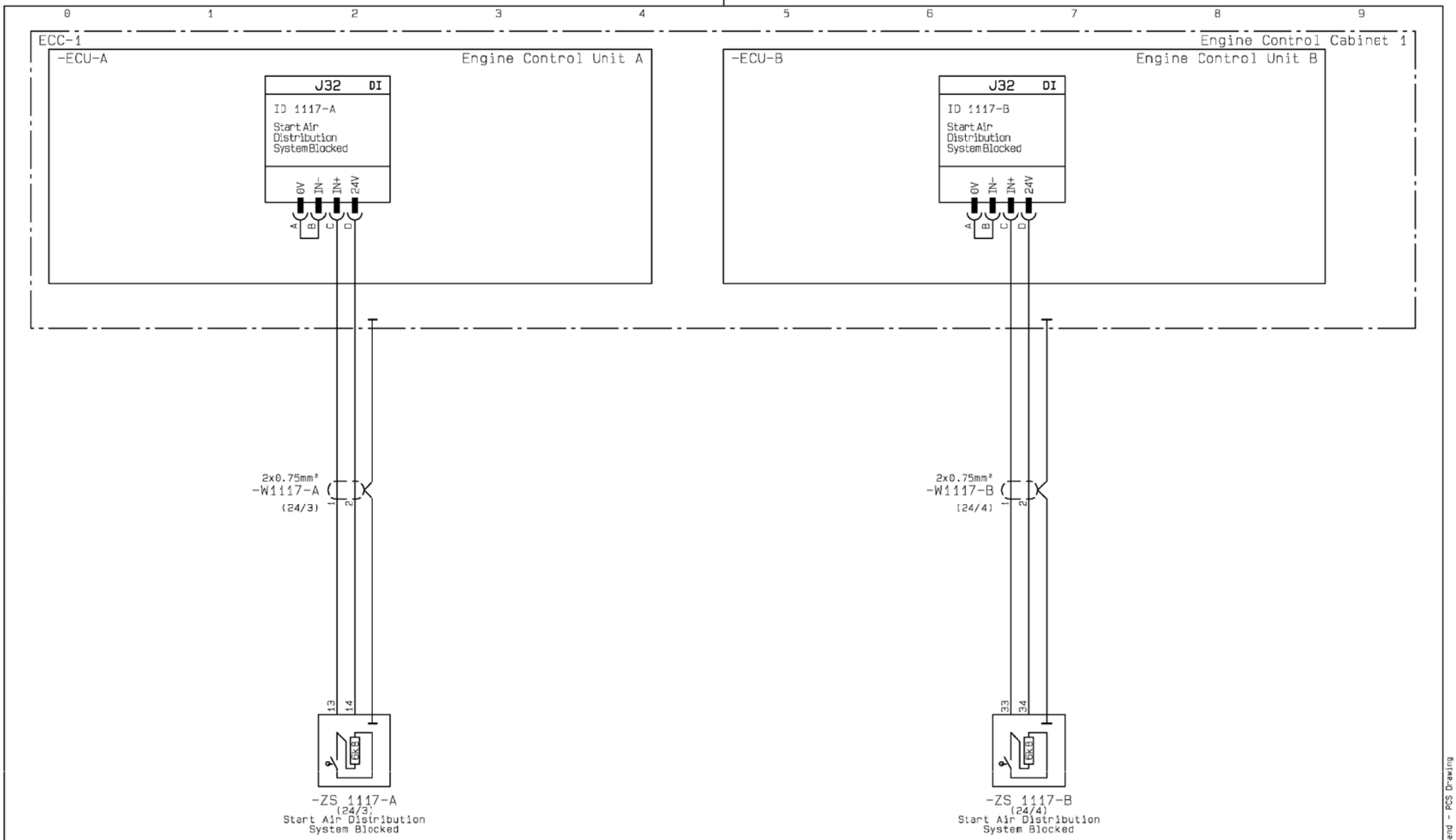
CAD Drawing - do not correct by hand - PCS Drawing



Start Air Distribution system blocked signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		29 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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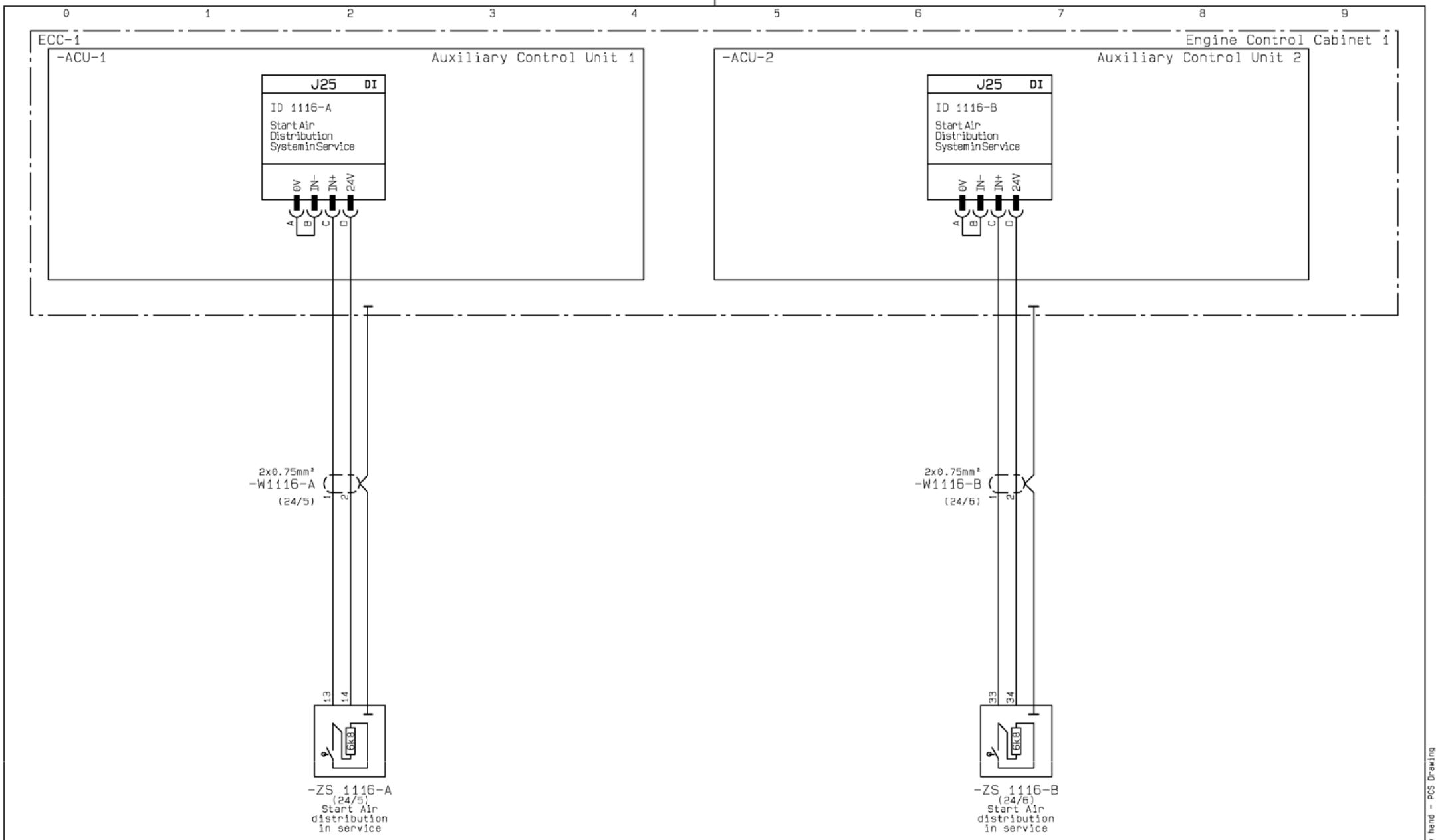
CAD Drawing - do not correct by Hand - PCS Drawing



Start Air Distribution system blocked signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		30 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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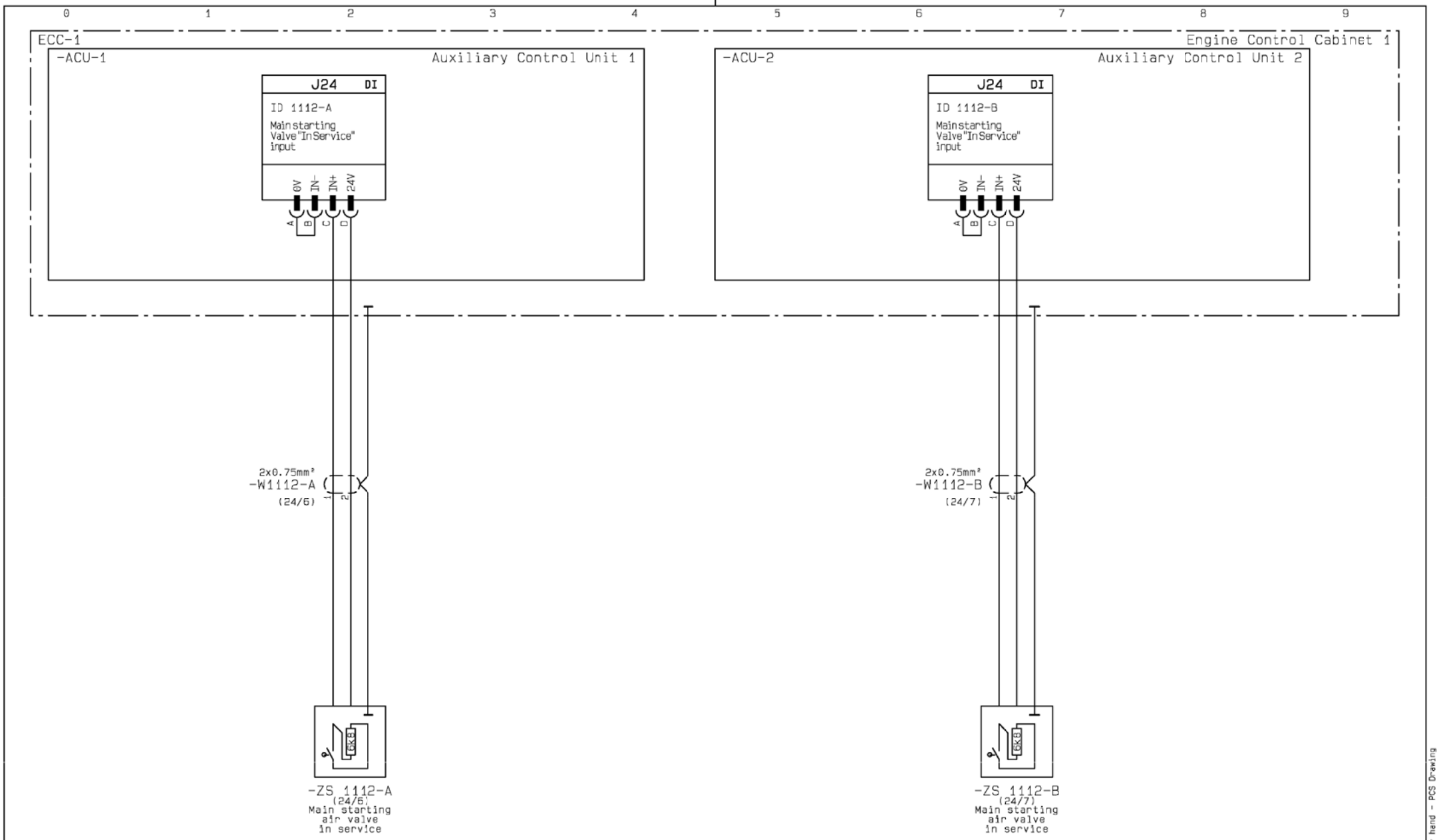

Main starting air valve in service signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		31 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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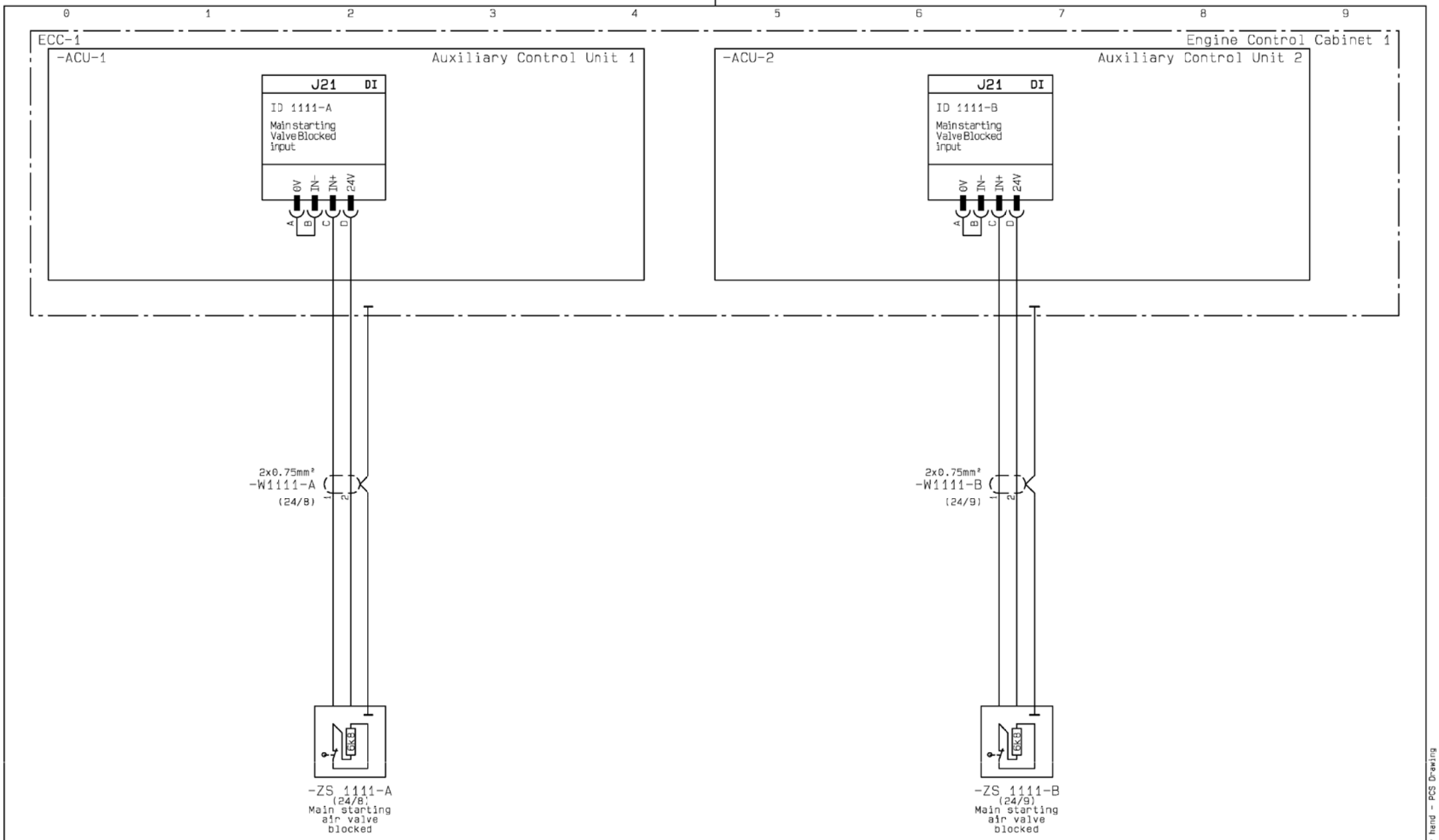

Main starting valve blocked signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		32 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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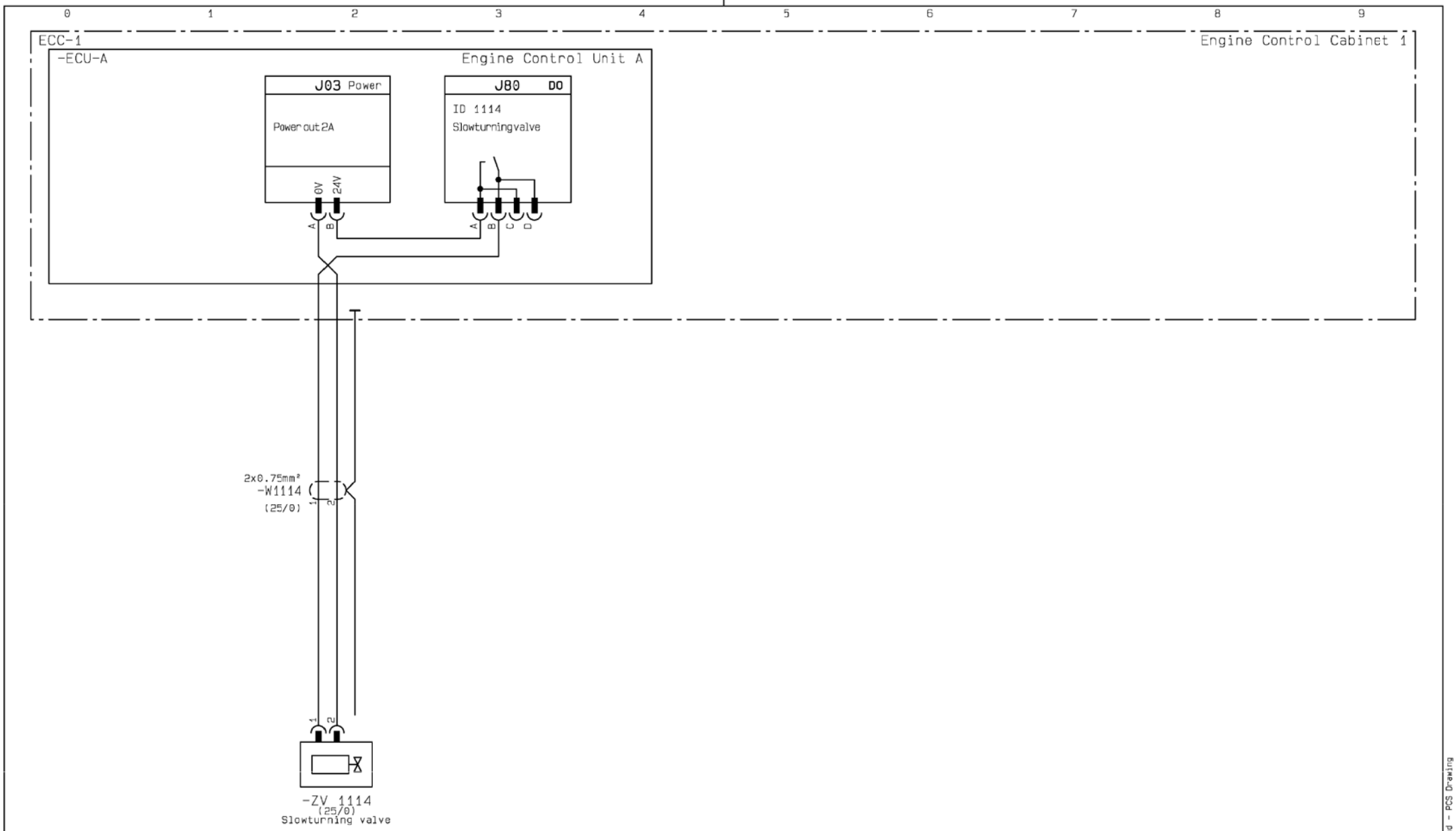

Slowturn valve signal

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		33 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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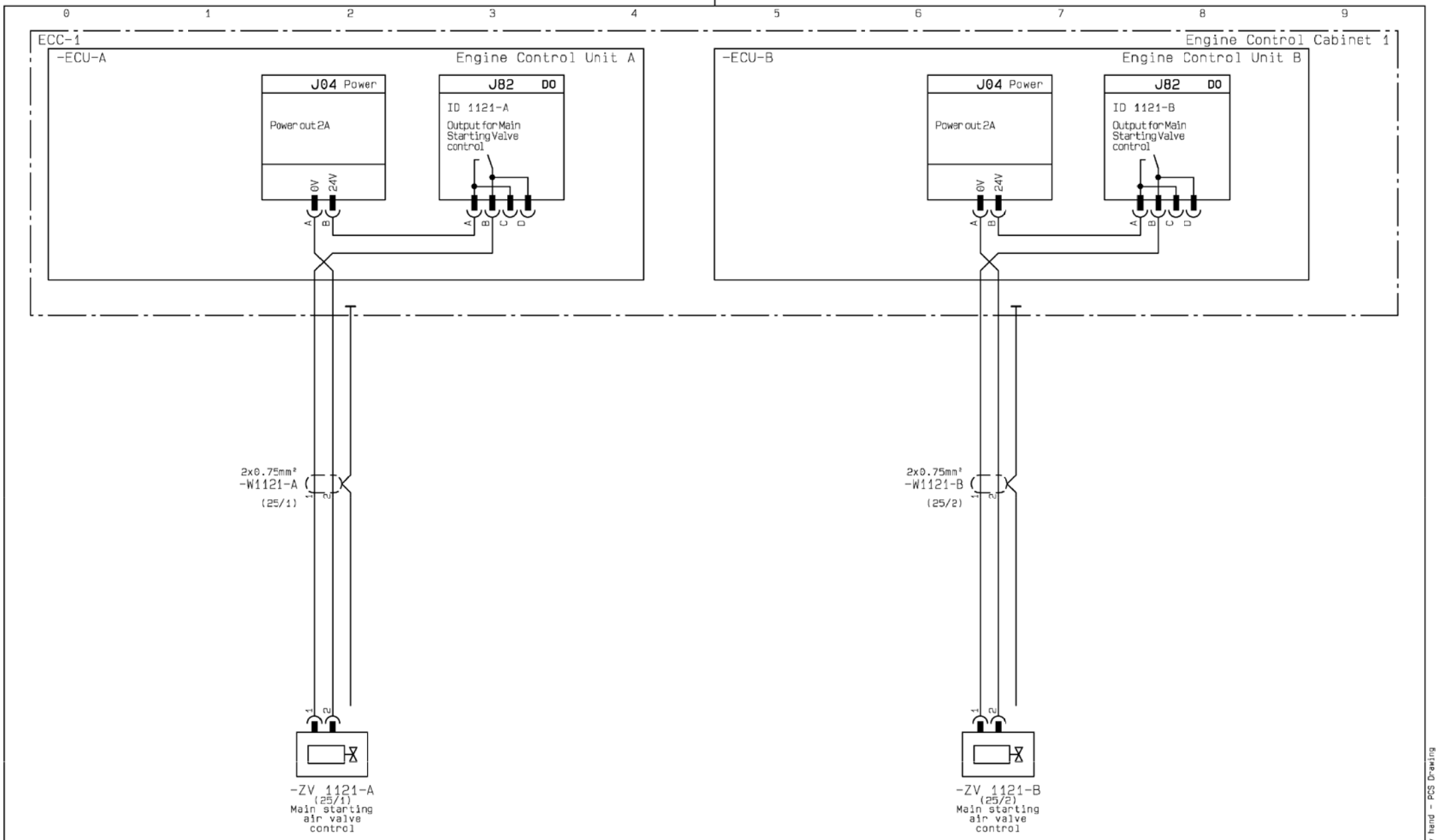

Main starting valve control signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		34 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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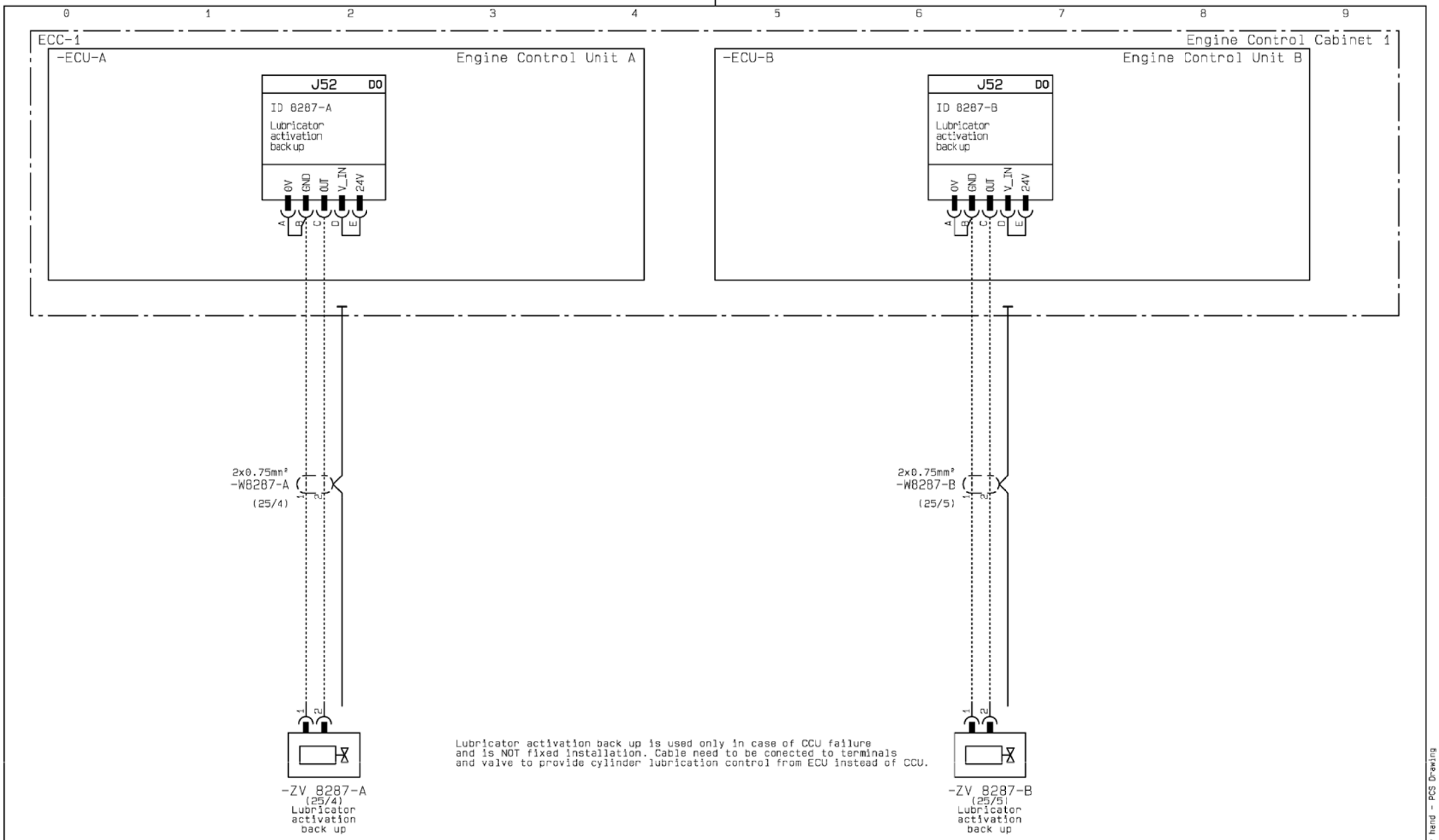

Lubricator activation back up signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		35 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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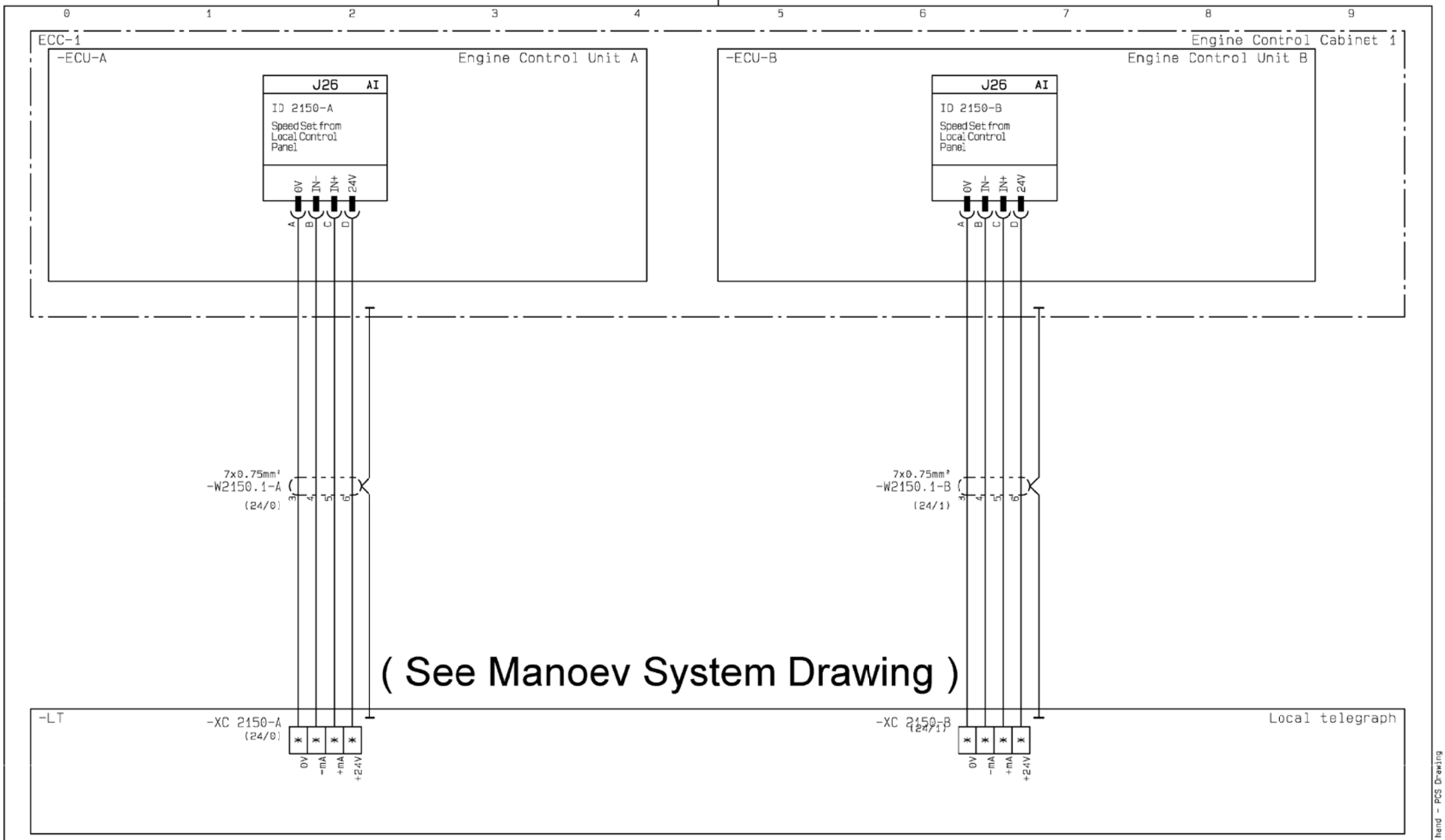

Speed signal from Local Telegraph

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		36 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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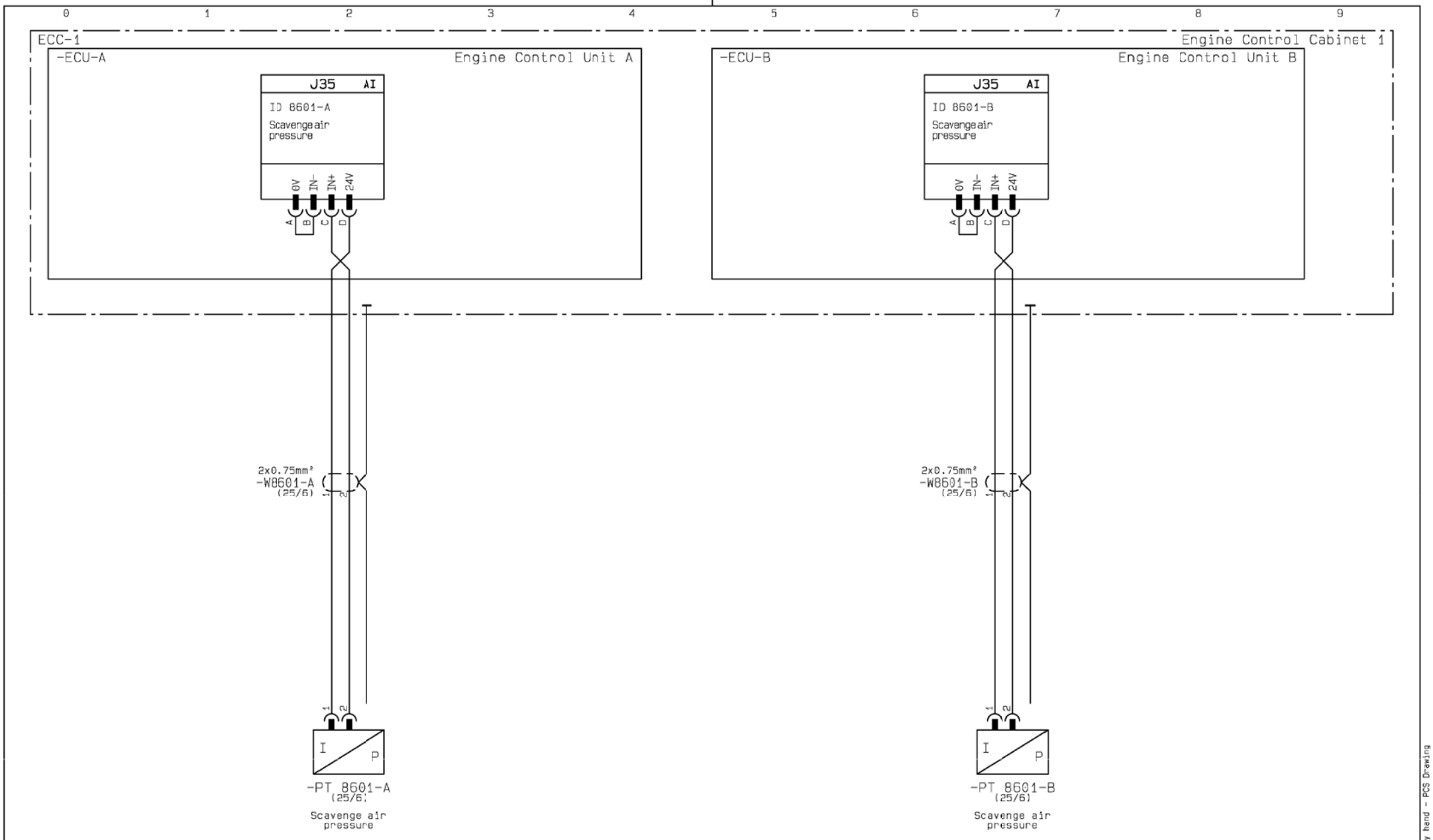
CAD Drawing - do not correct by hand - PCS Drawing



Scavenge air pressure signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		37 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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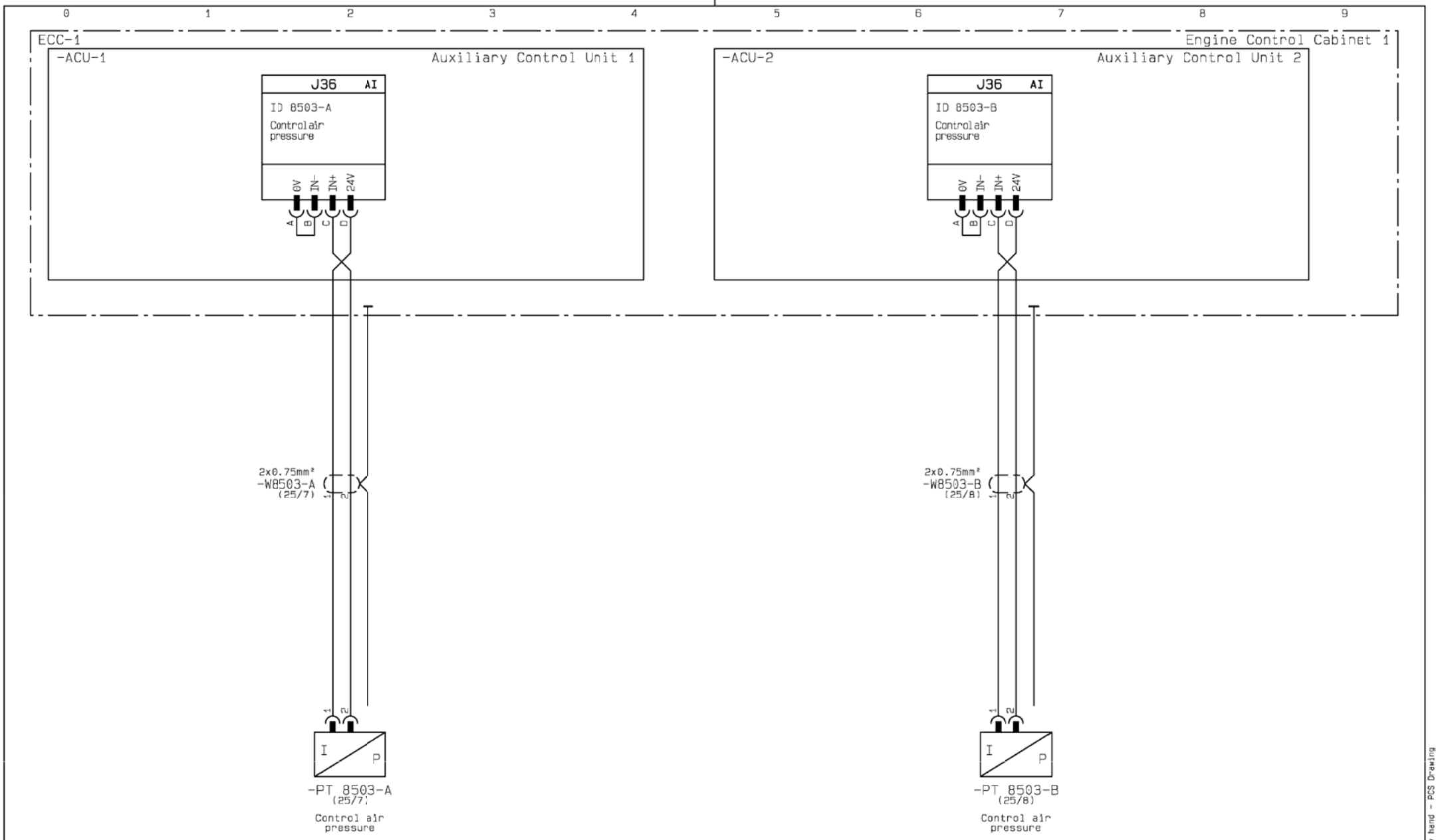
CAD Drawing - do not correct by hand - PCS Drawing



Control air pressure signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		38 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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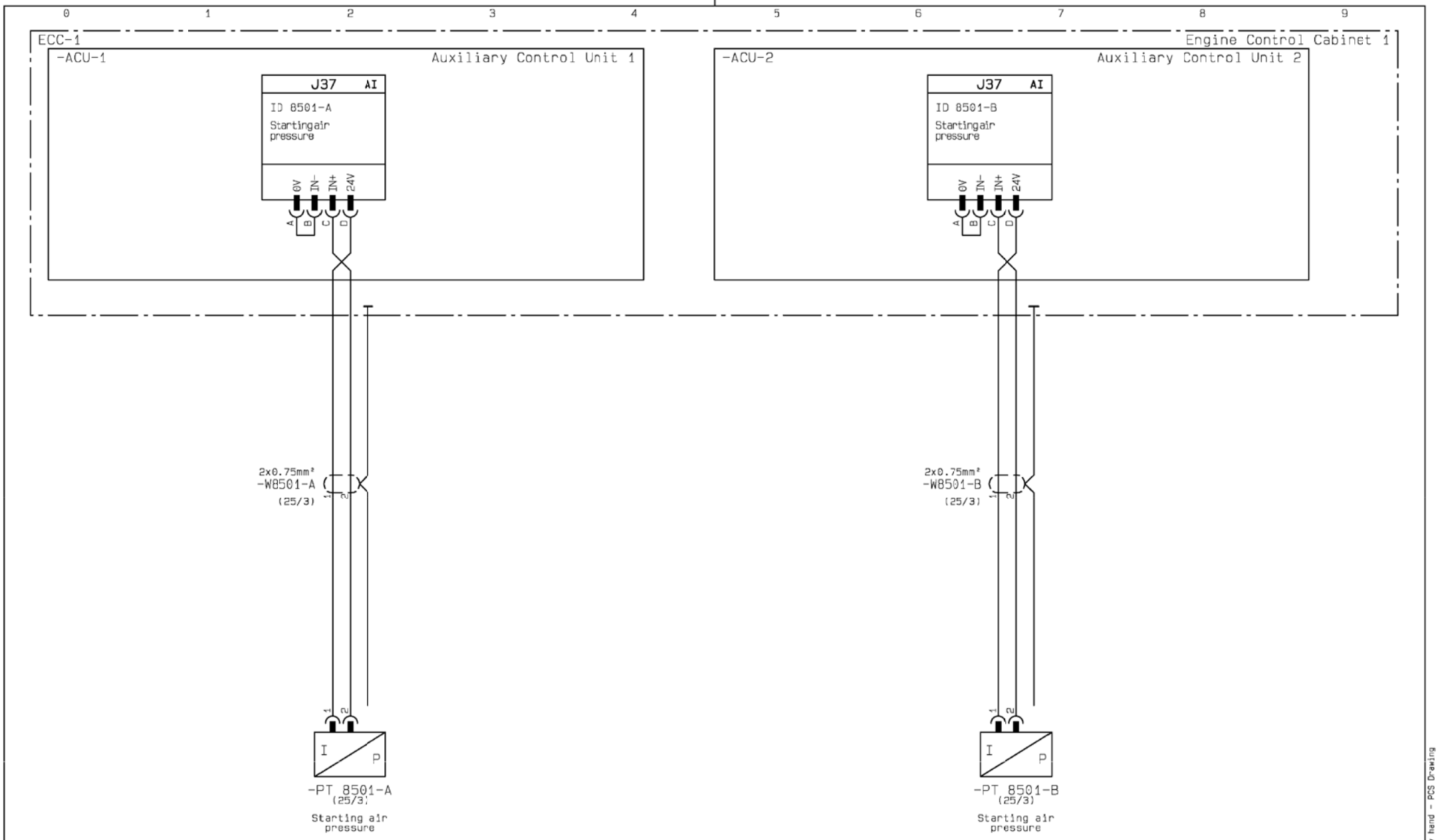

Starting air pressure signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		39 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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HYDRAULIC POWER SUPPLY

HYDRAULIC POWER SUPPLY	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 40 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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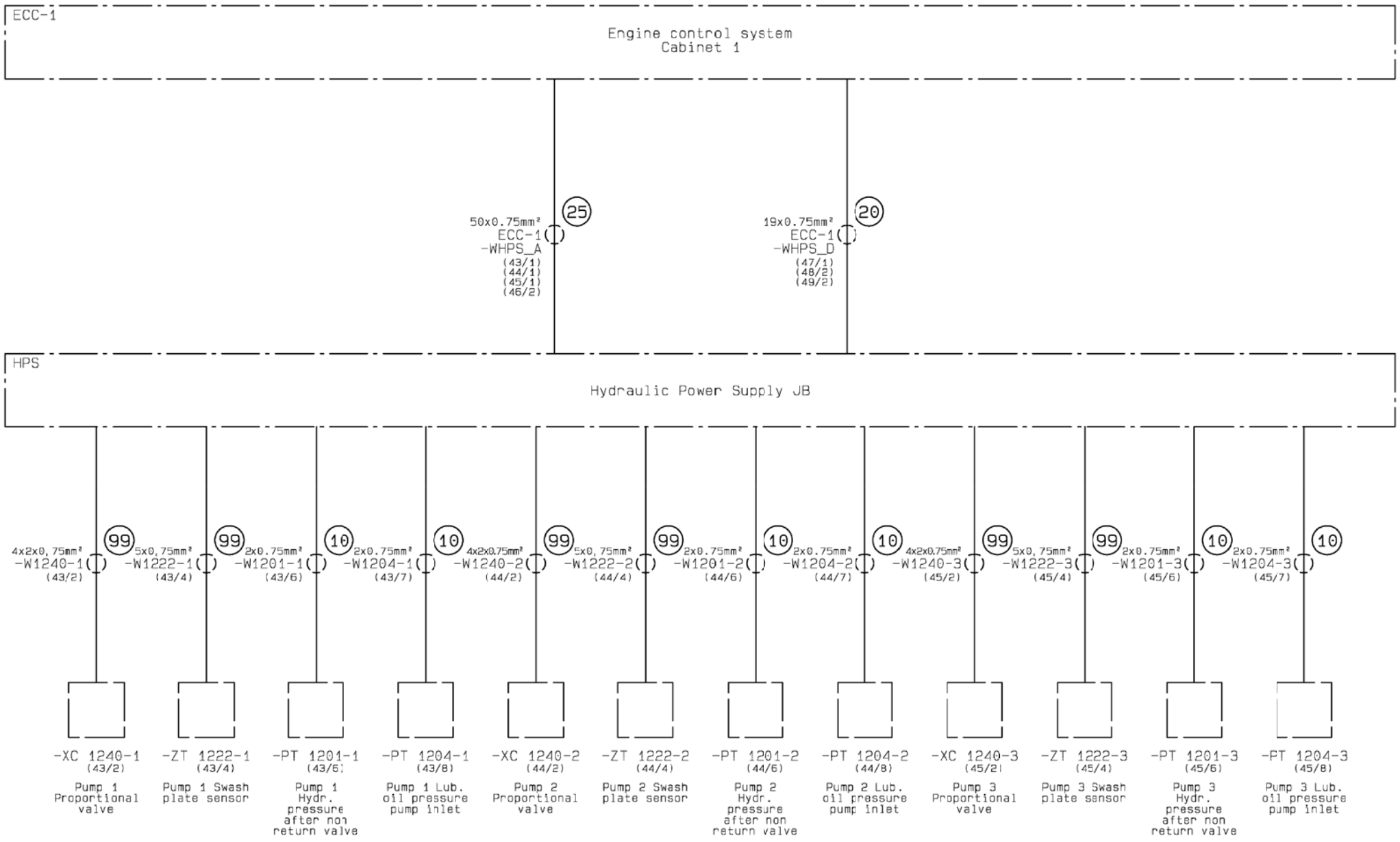

Hydraulic Power Supply cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		41 (225)

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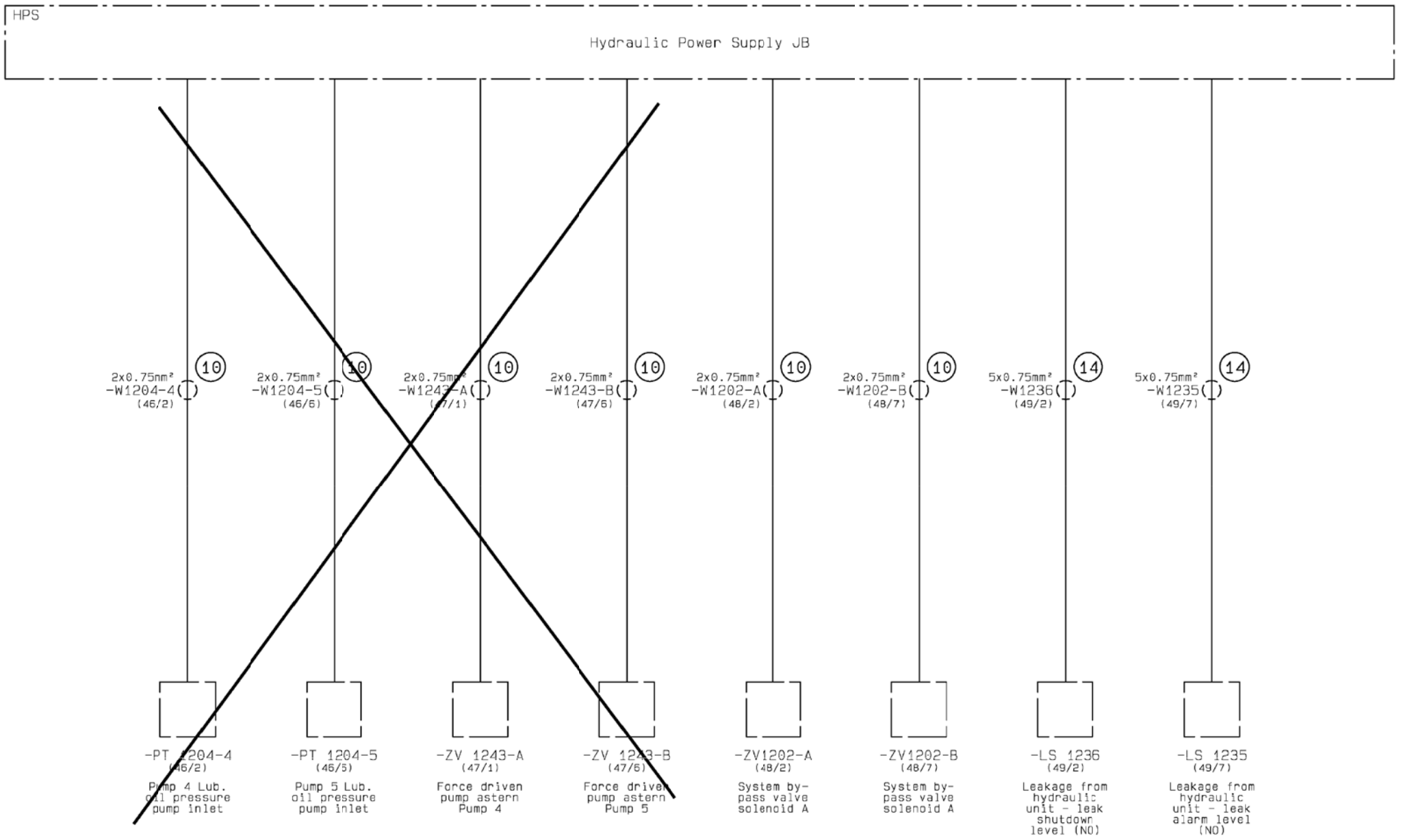
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing



Hydraulic Power Supply cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 42 (225)

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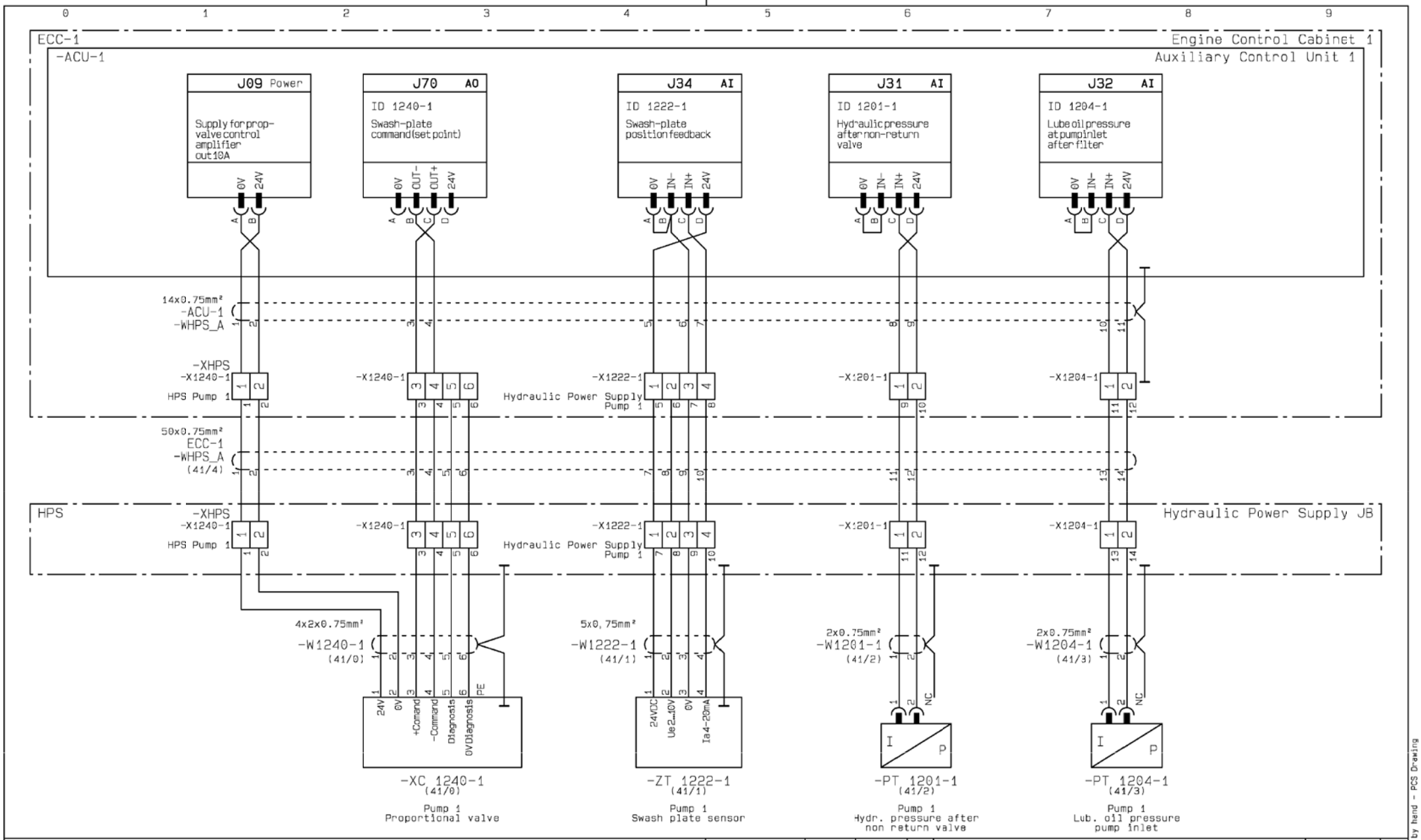
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Pump 1 control circuit

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		43 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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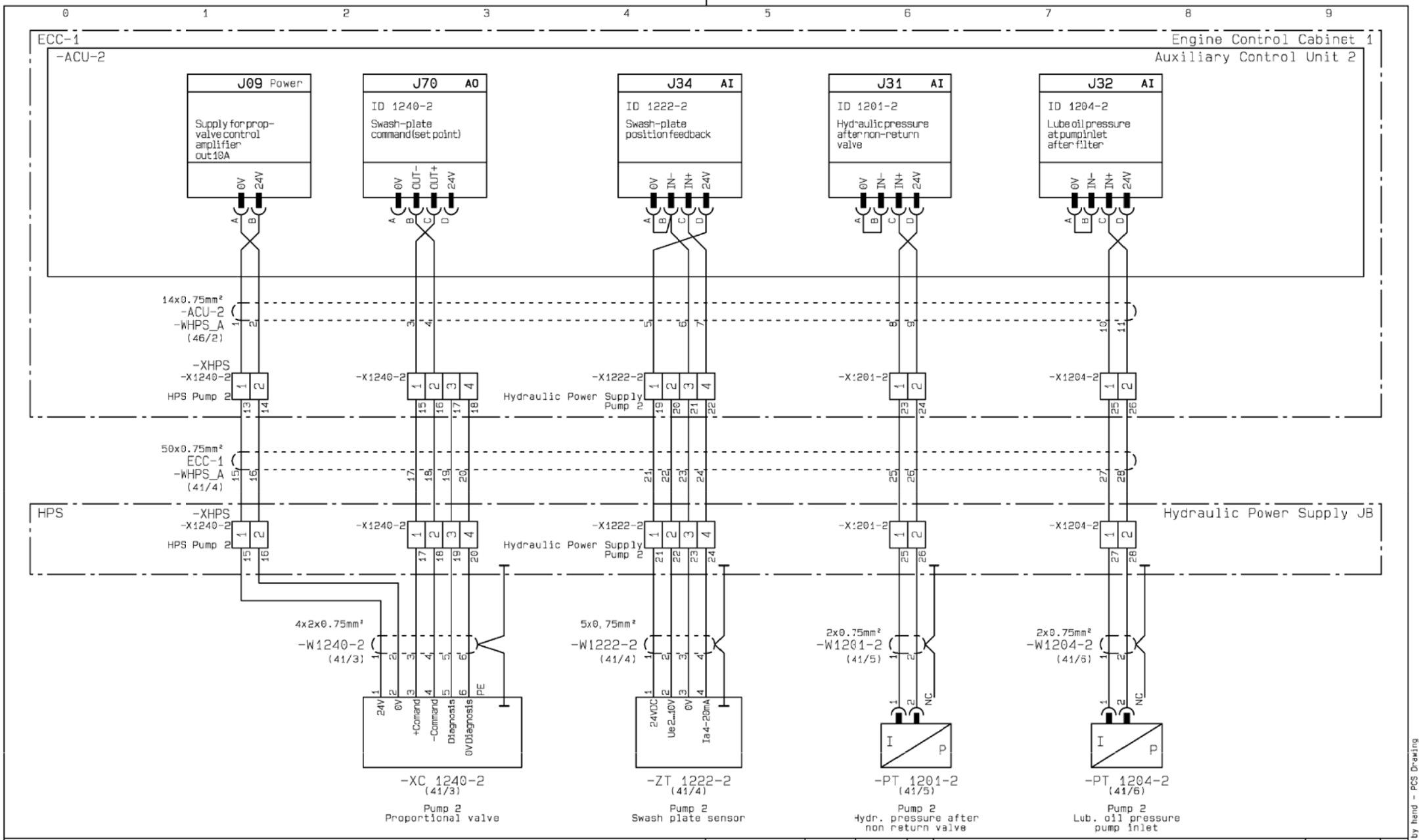
CAD Drawing - do not correct by hand - PCS Drawing



Pump 2 control circuit

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		44 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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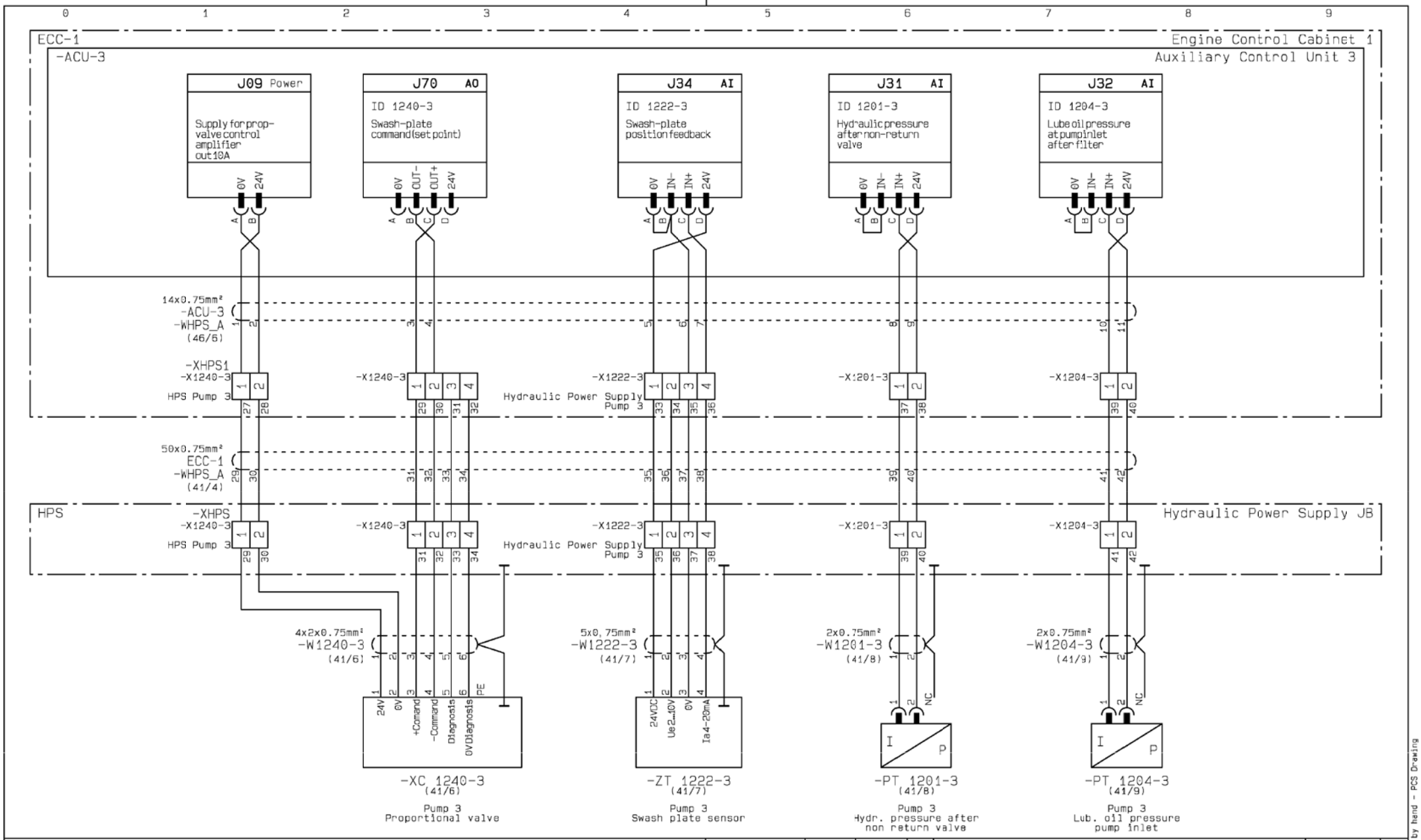
CAD Drawing - do not correct by hand - PCS Drawing



Pump 3 control circuit

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		45 (225)

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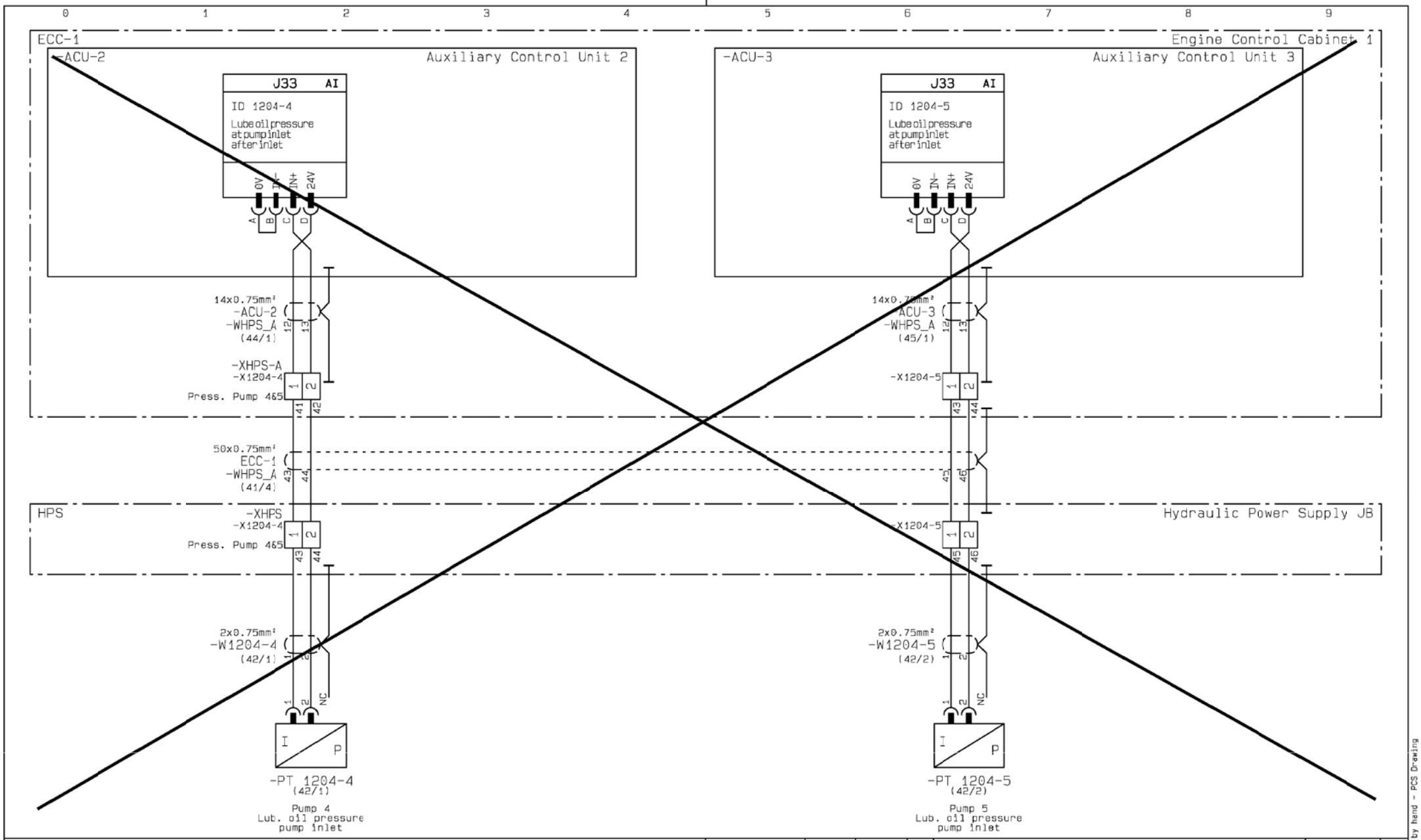
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Pump 4 and 5 pressure sensors

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		46 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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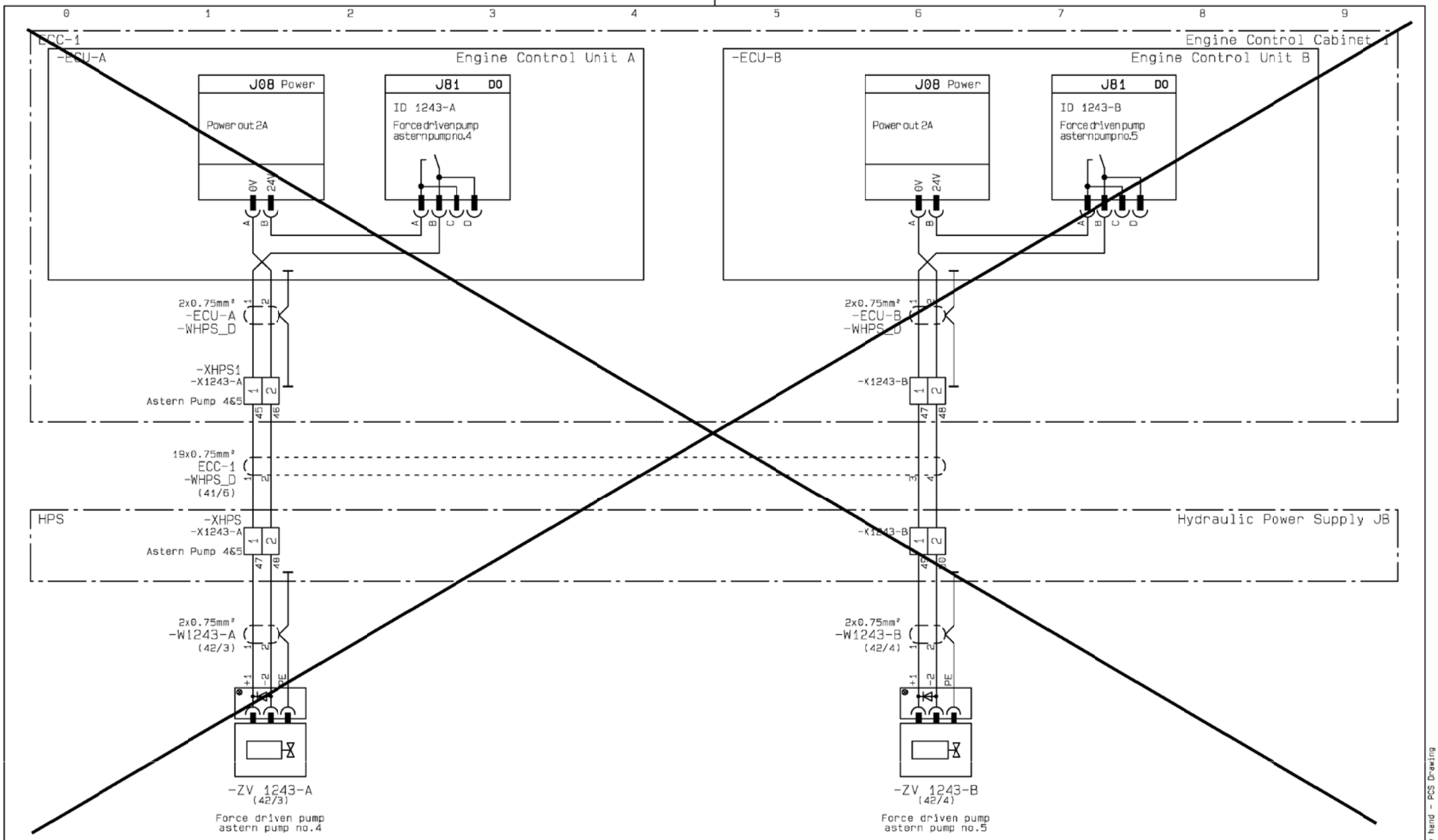
CAD Drawing - do not correct by hand - PCS Drawing



Pump 4 and 5 astern signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		47 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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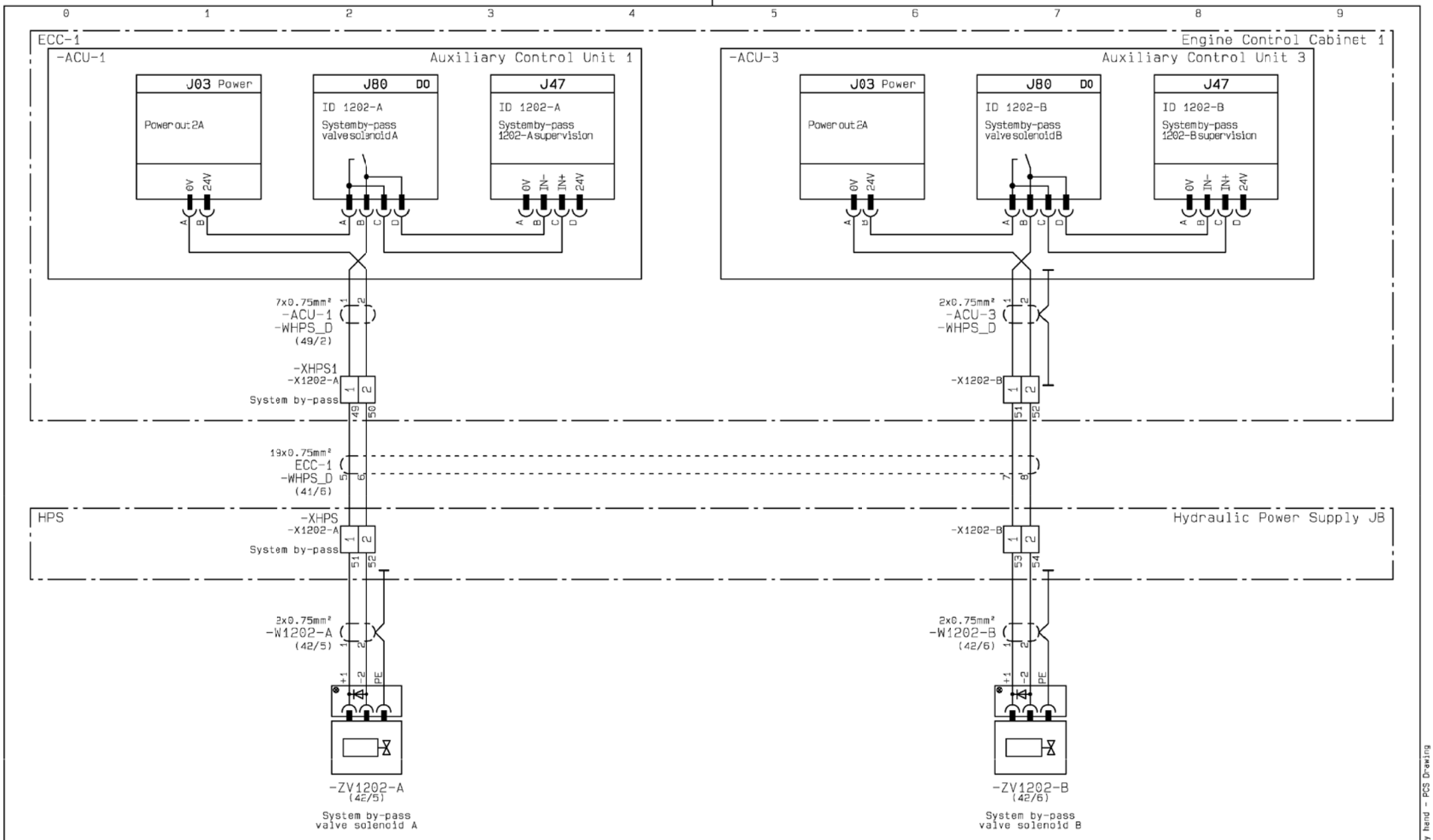
CAD Drawing - do not correct by hand - PCS Drawing



System by-pass solenoid valves A and B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		48 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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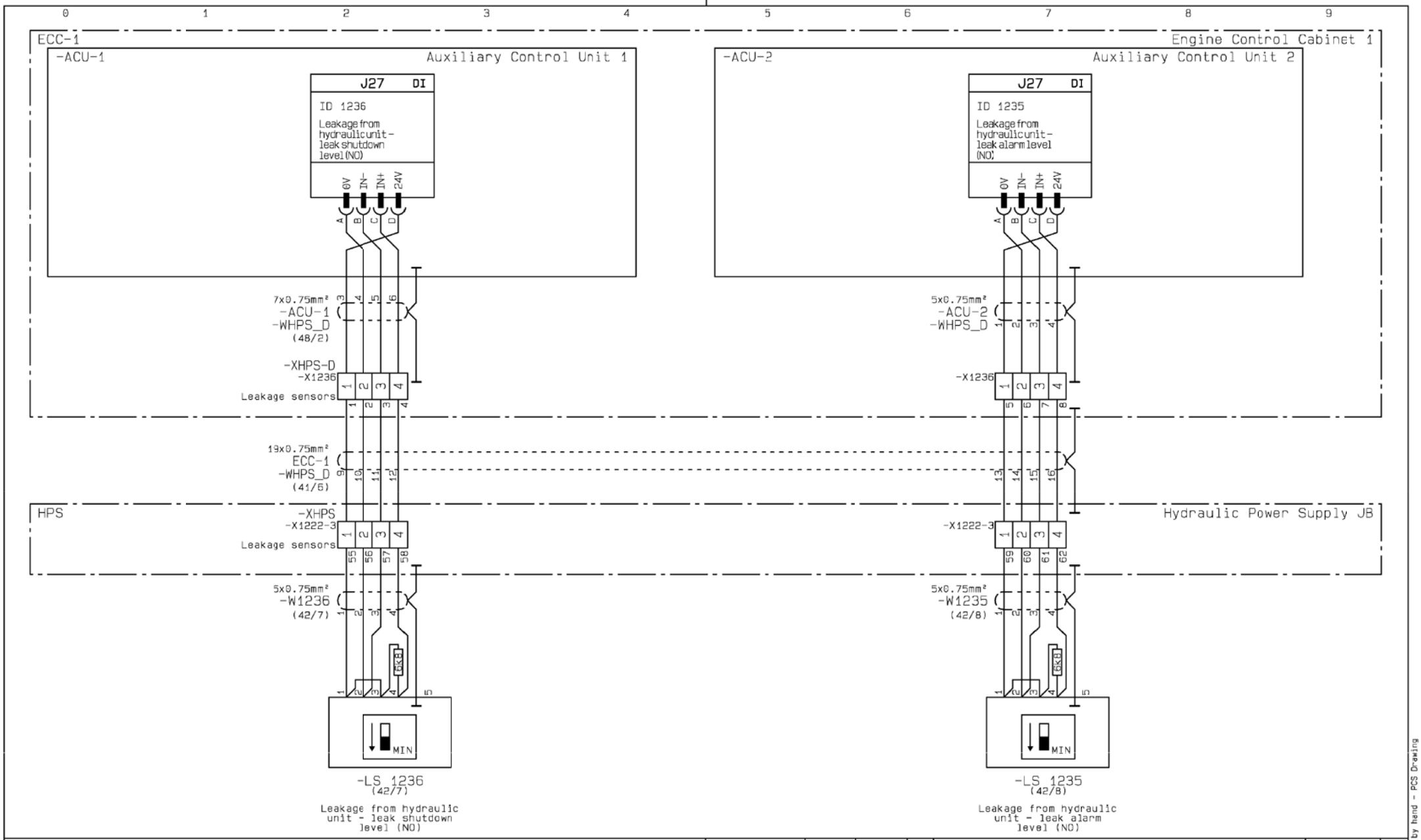
CAD Drawing - do not correct by Hand - PCS Drawing



Leakage sensors

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		49 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

(See Manoev System Drawing)

LOCAL OPERATING PANEL

LOCAL OPERATING PANEL	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 50 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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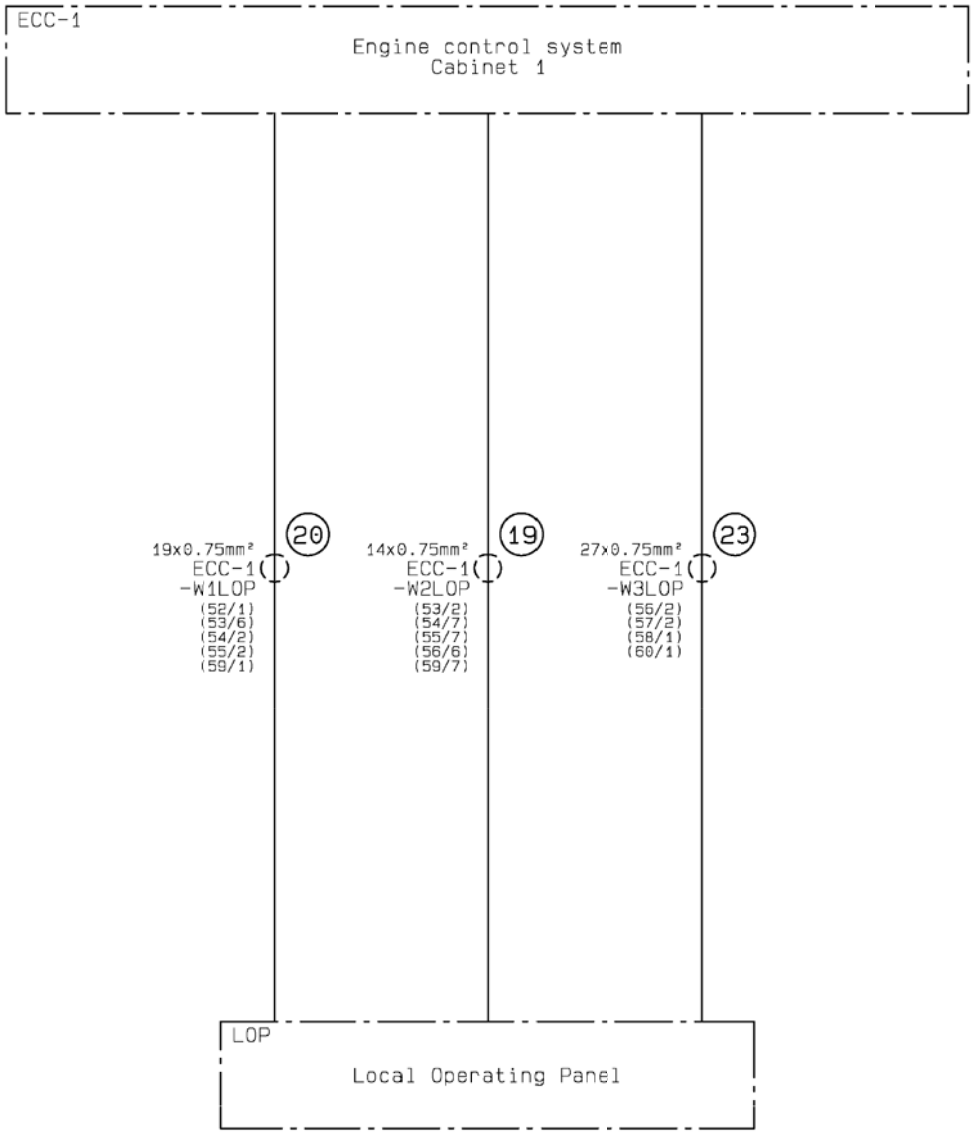

Interface to Local Operating Panel cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		51 (225)

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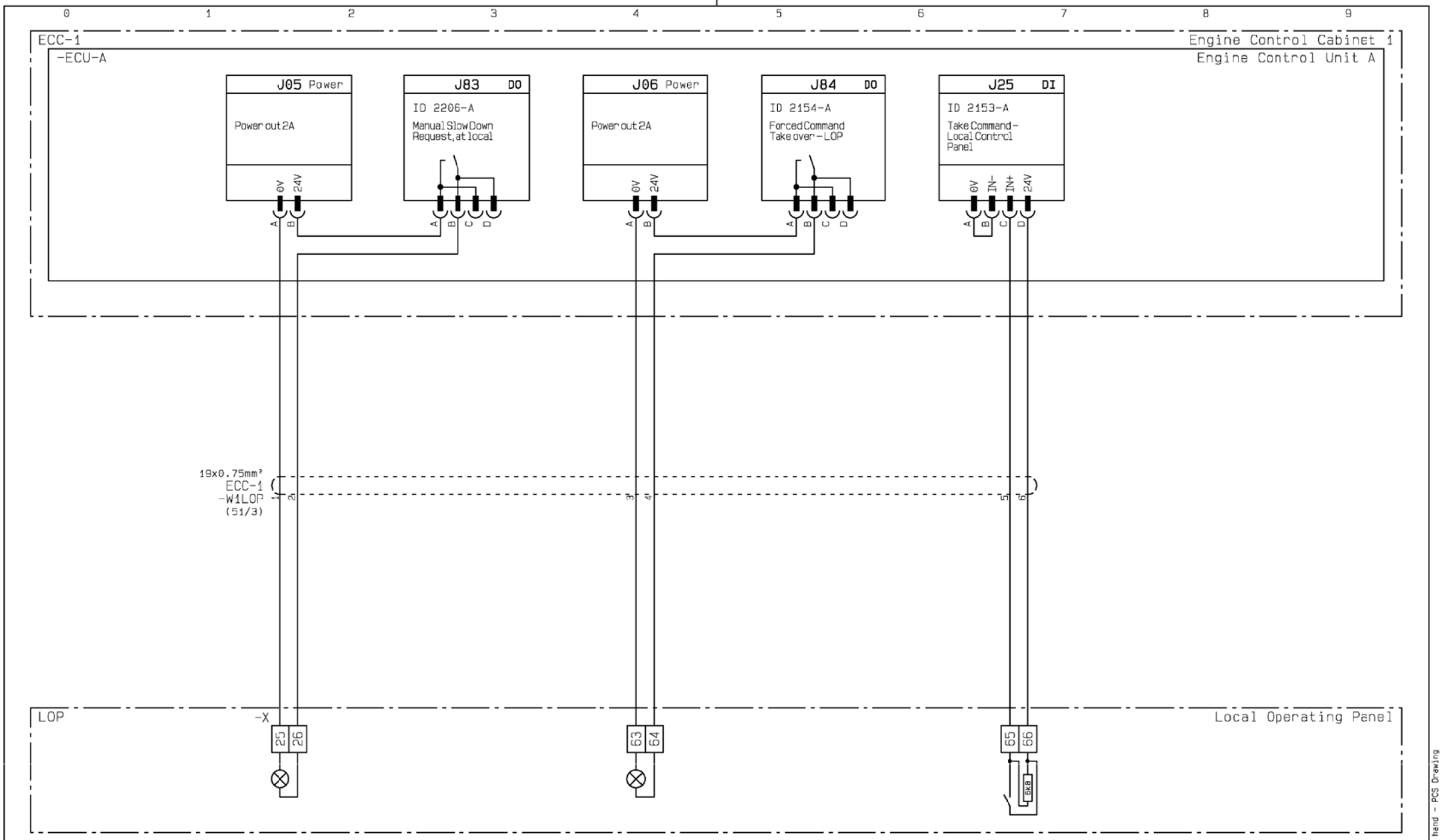
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		52 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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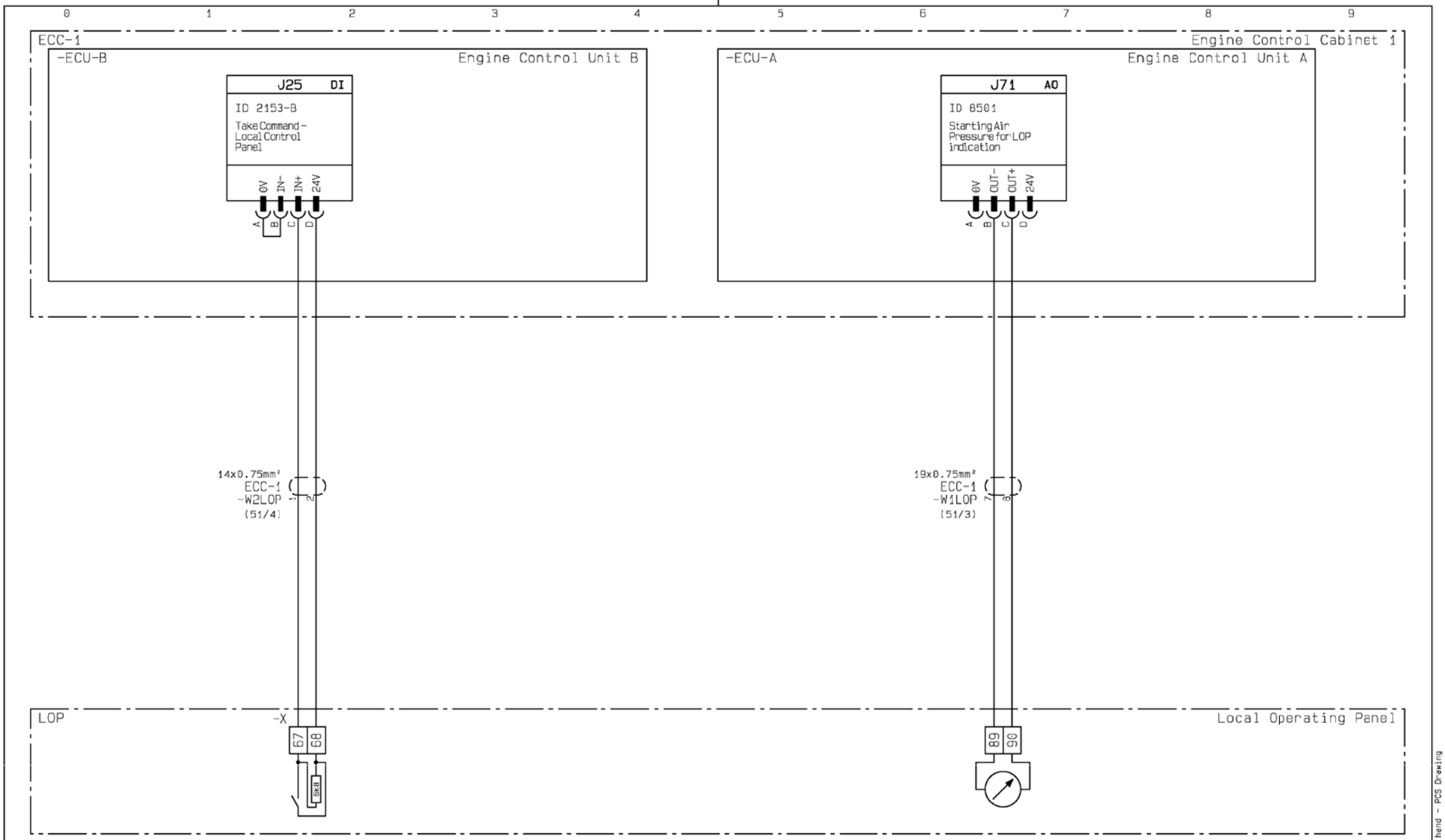
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		53 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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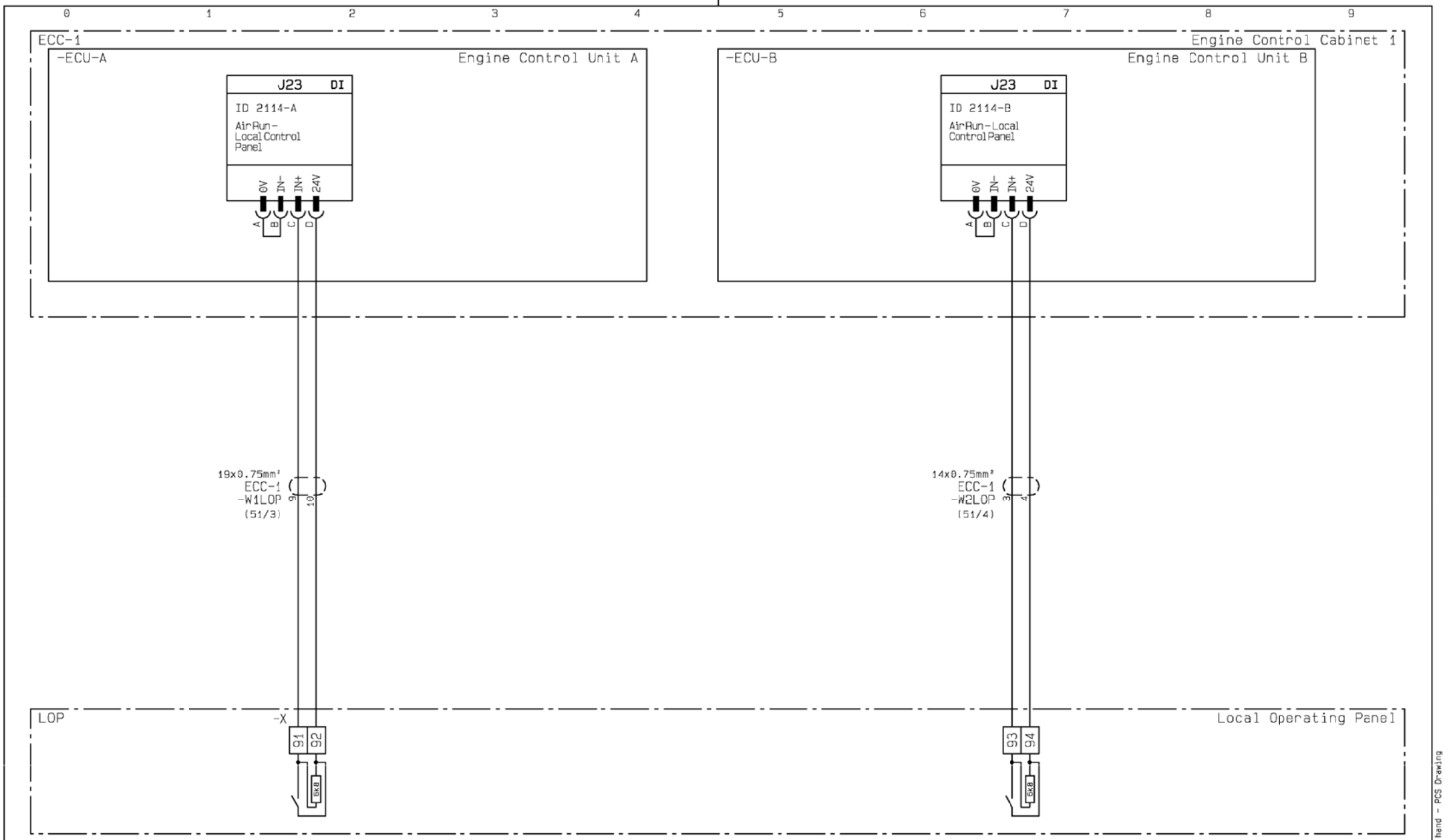

Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		54 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
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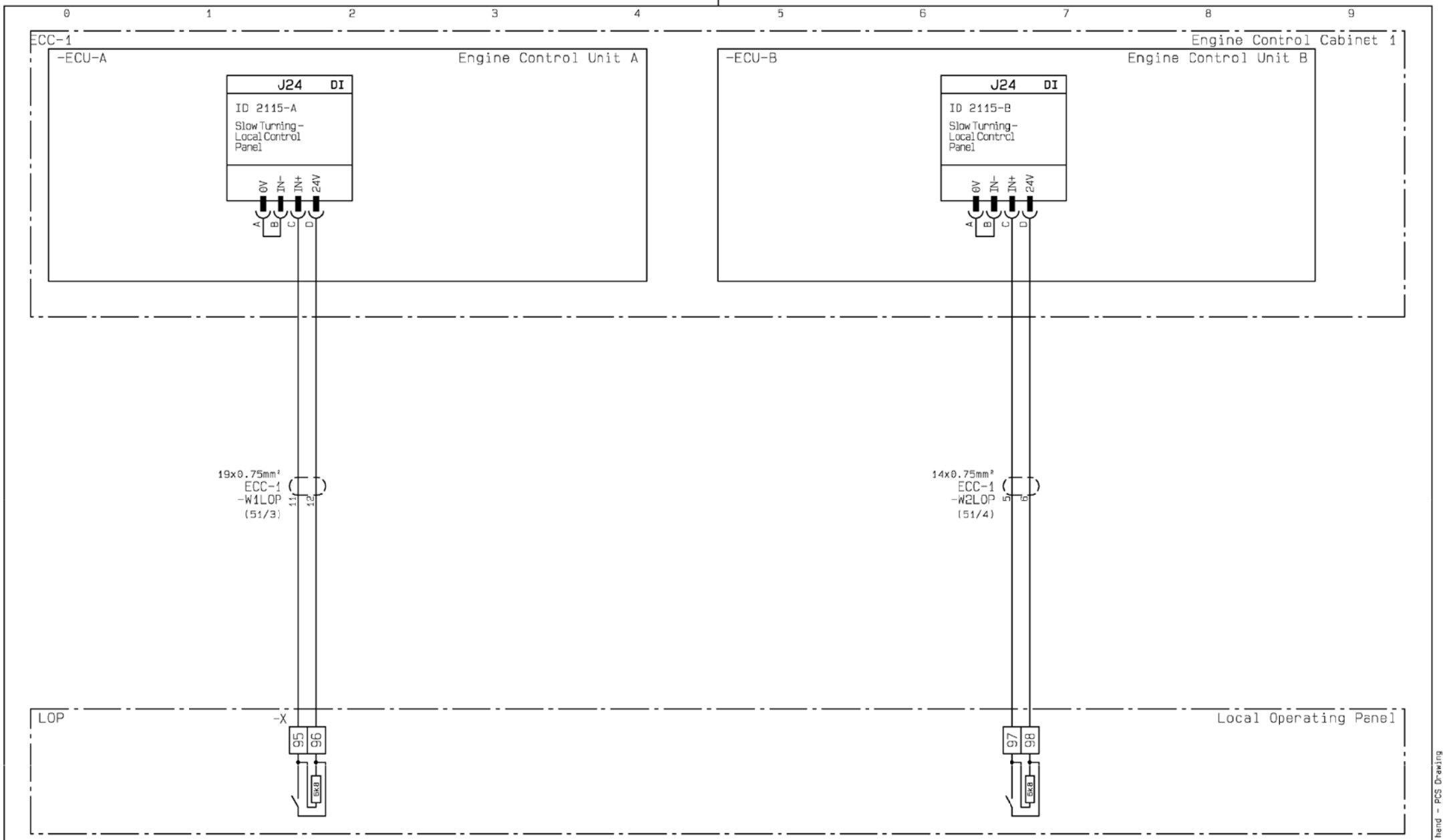
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		55 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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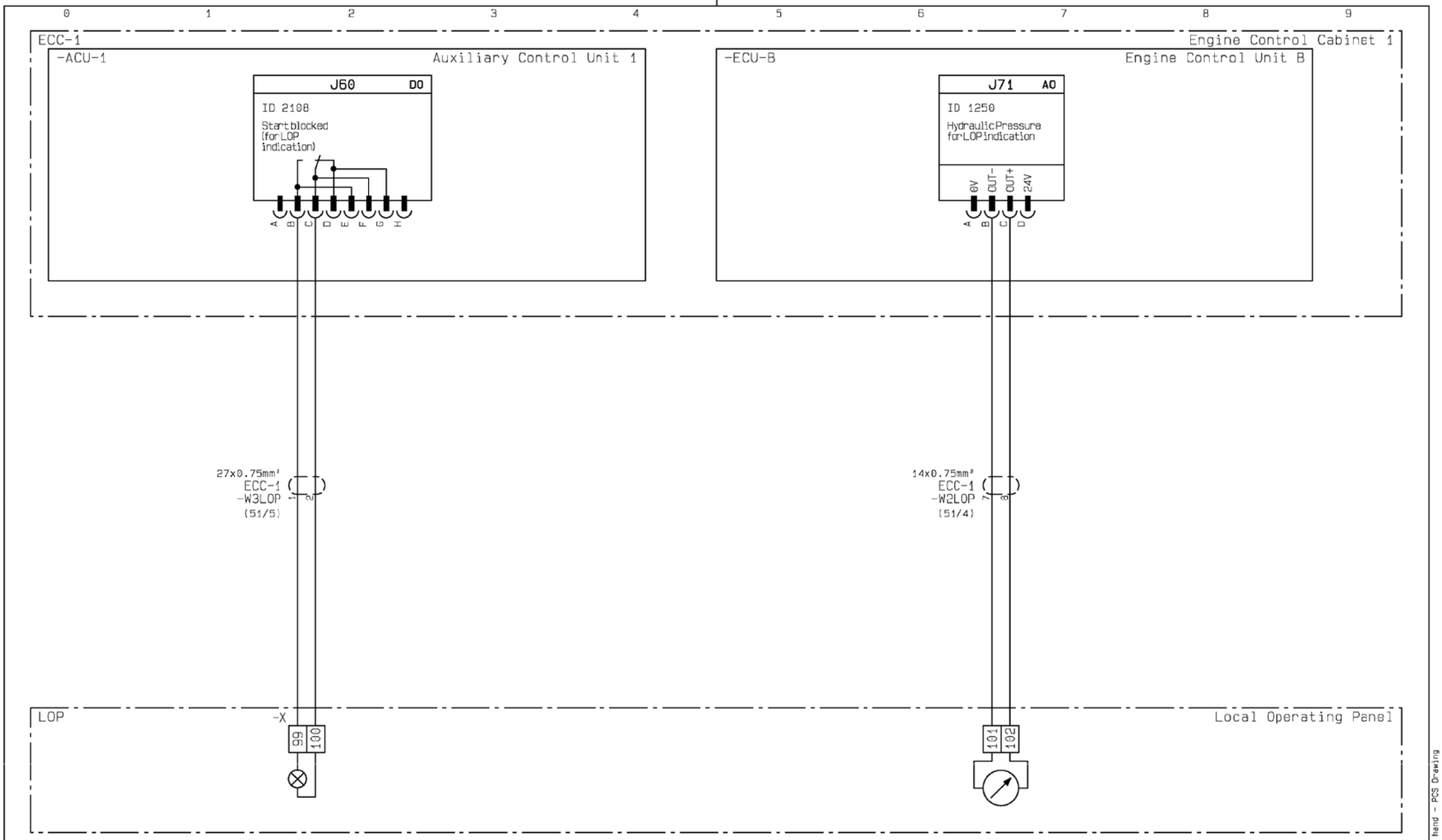
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		56 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
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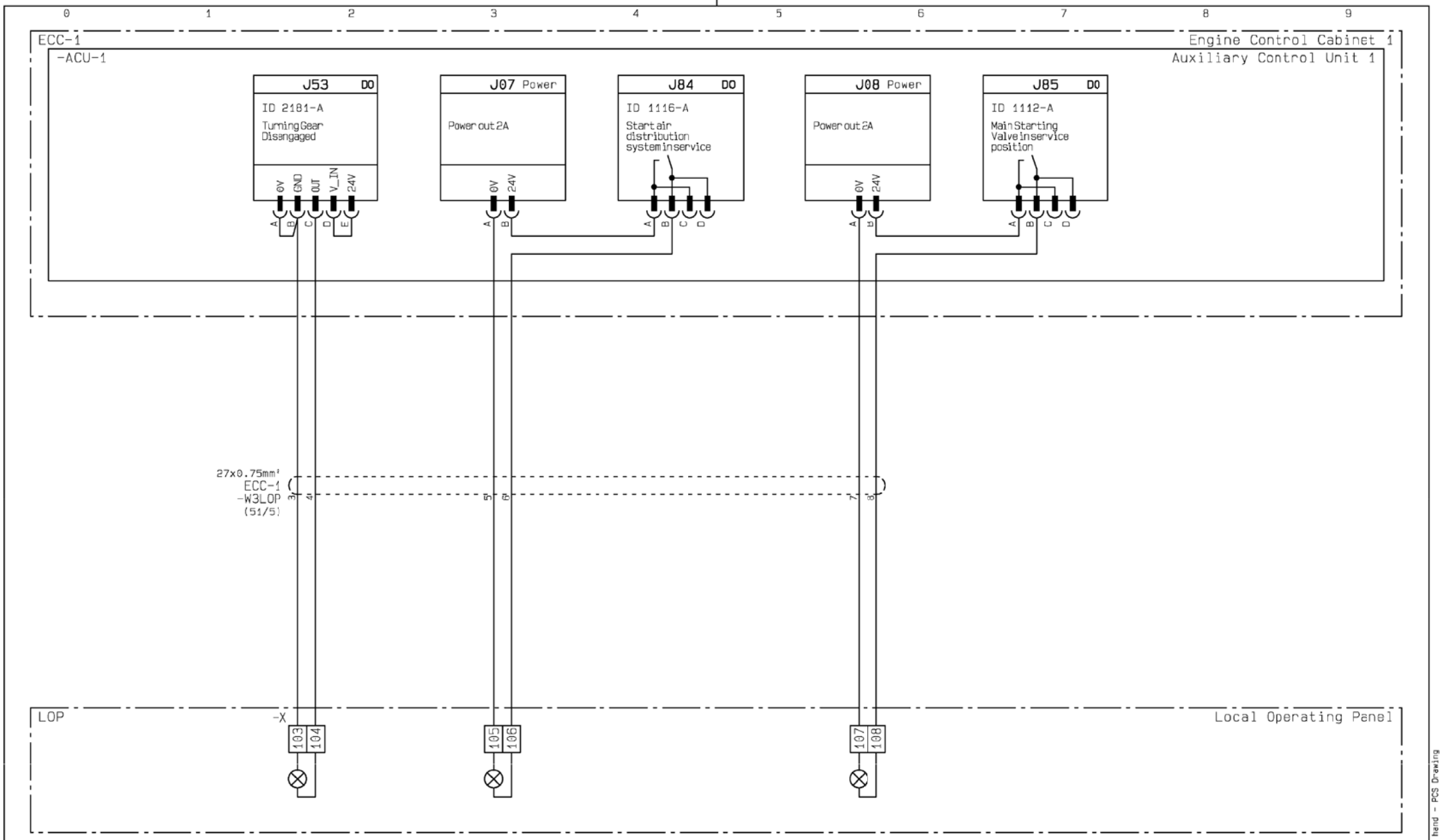
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		57 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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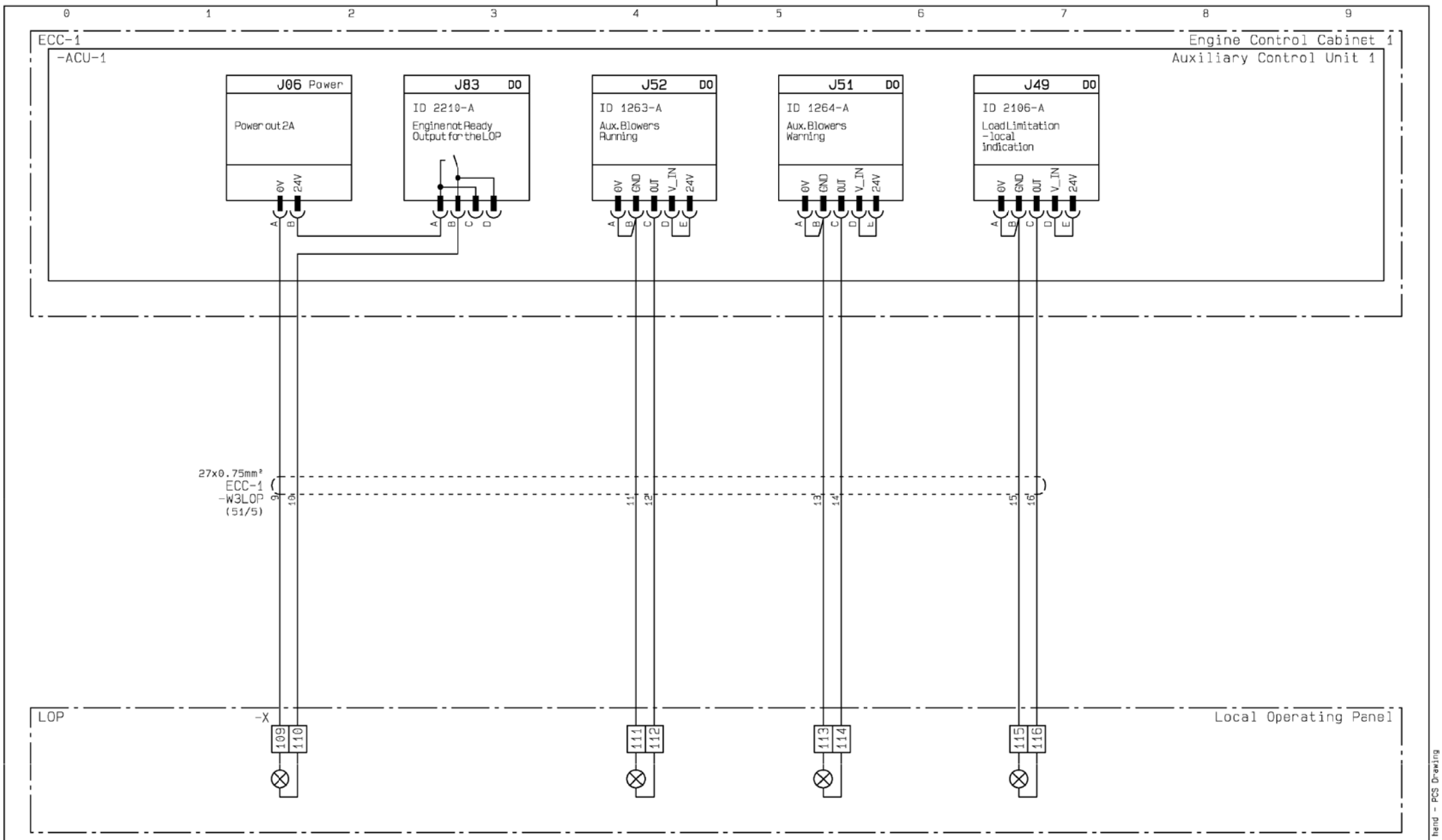
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		58 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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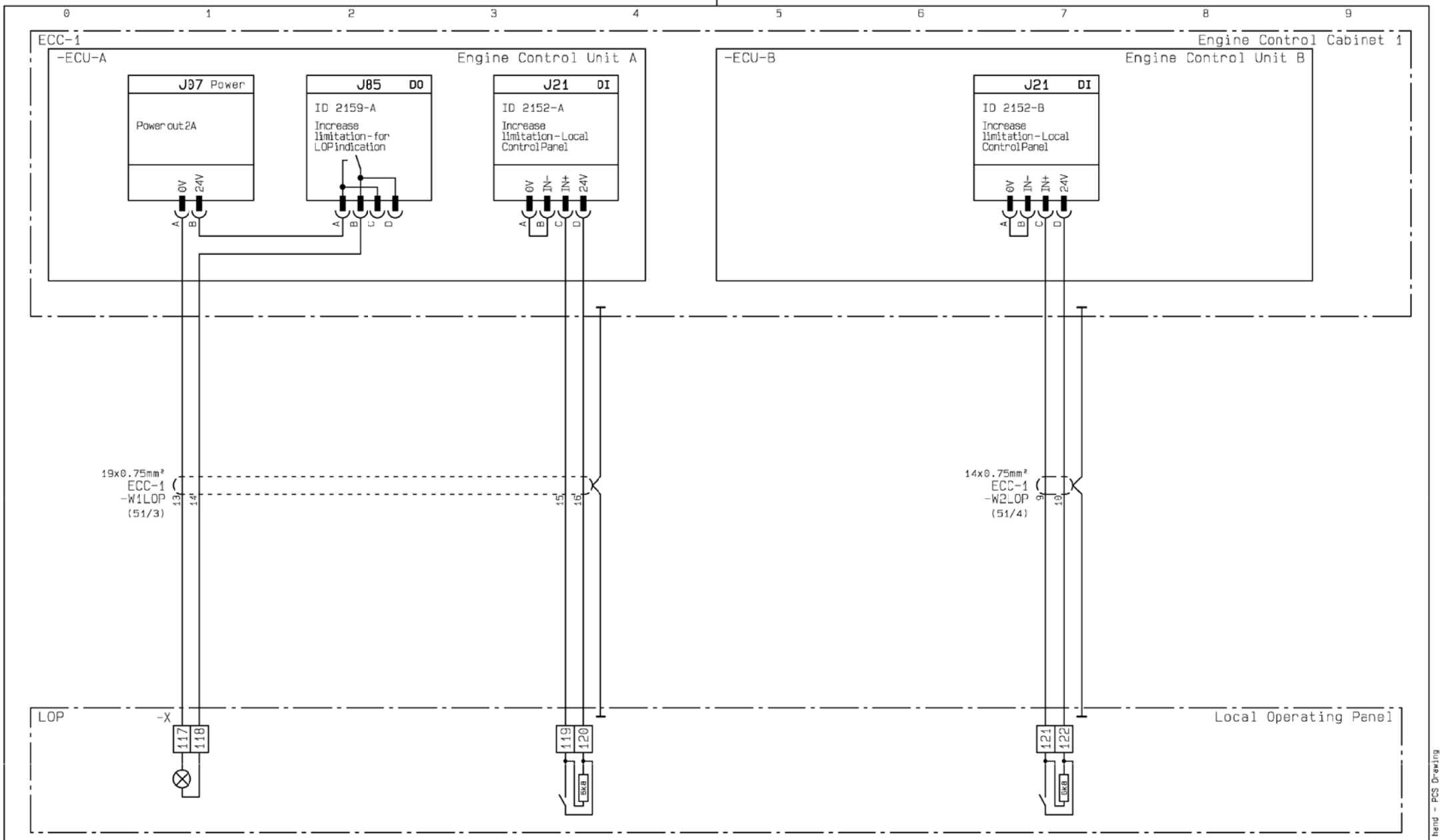
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		59 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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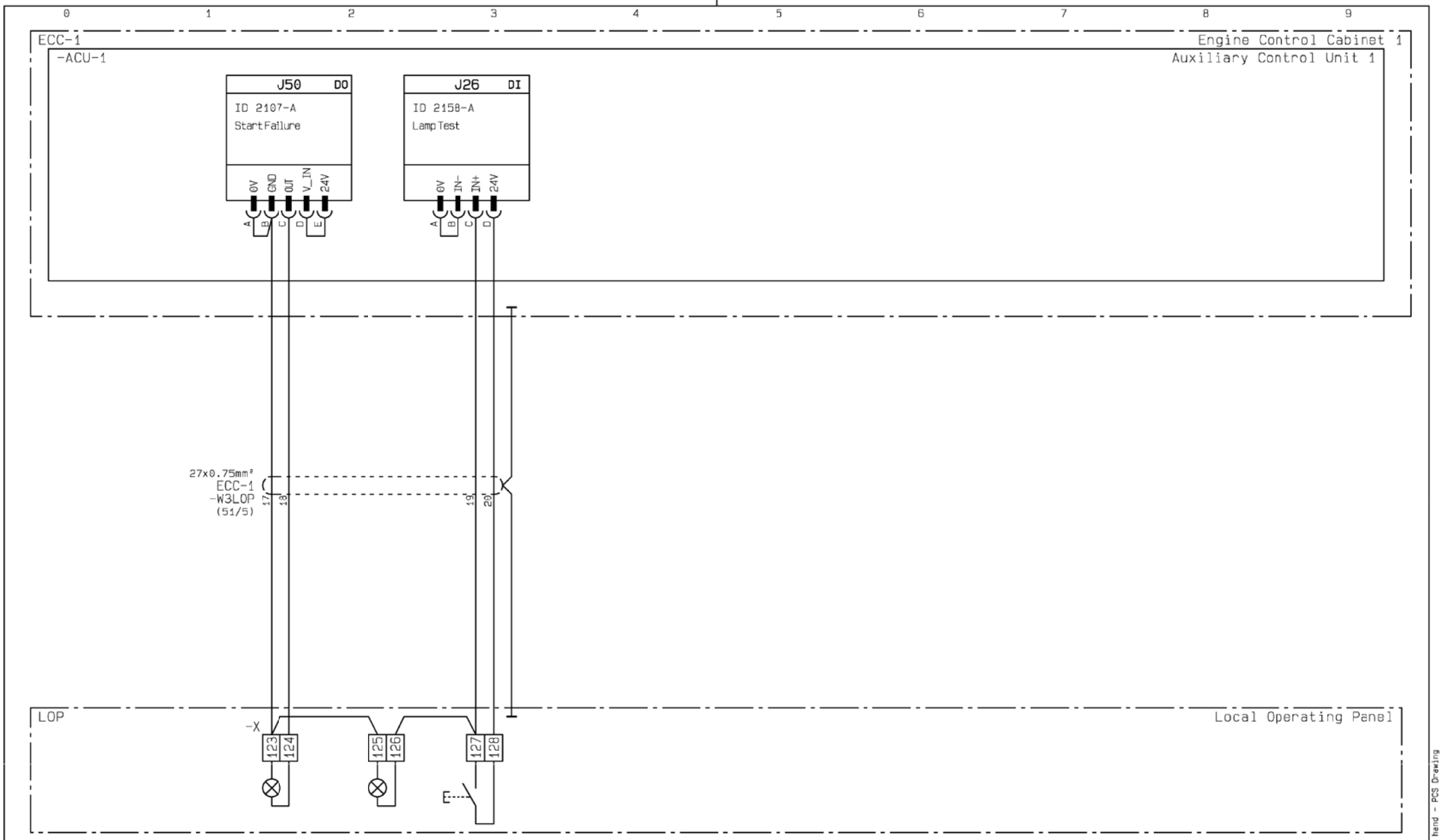
CAD Drawing - do not correct by hand - PCS Drawing



Local Operating Panel interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		60 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

START-UP PUMPS & AUXILIARY BLOWERS

START-UP PUMPS & AUXILIARY BLOWERS	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 61 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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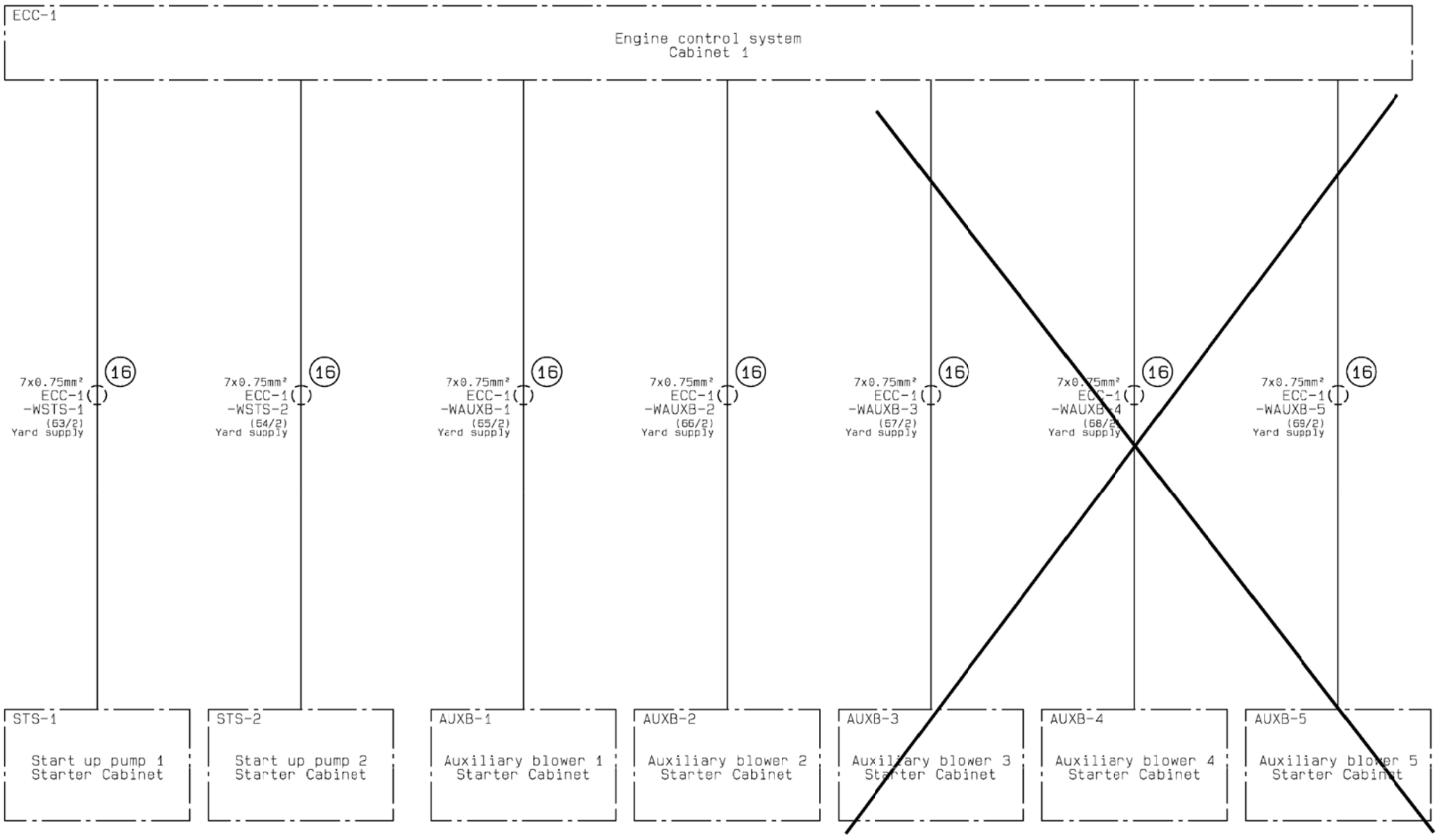
CAD Drawing - do not correct by hand - PCS Drawing



Start-up pumps amd auxiliary blowers cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		62 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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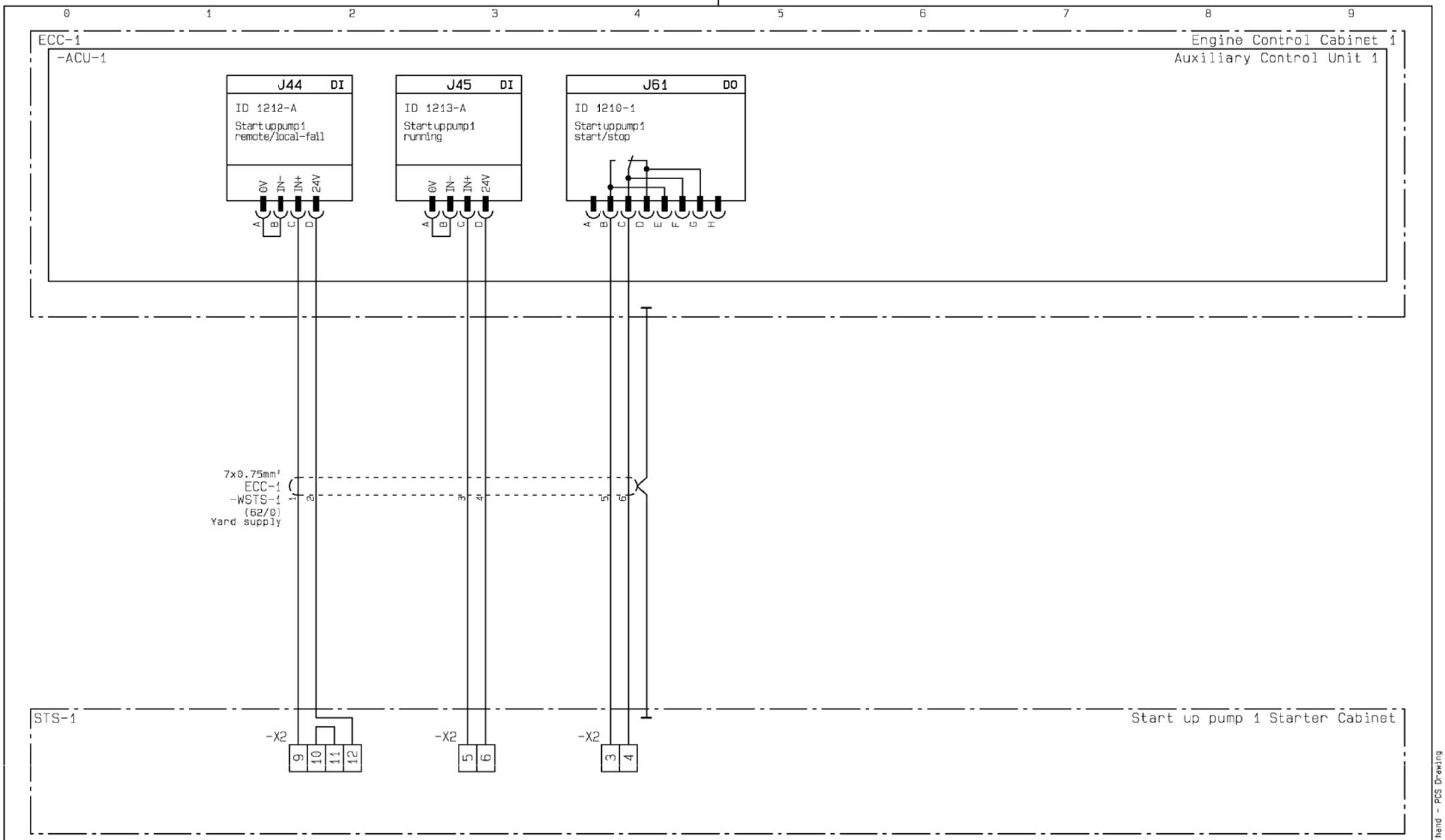
CAD Drawing - do not correct by hand - PCS Drawing



Start up pump 1

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		63 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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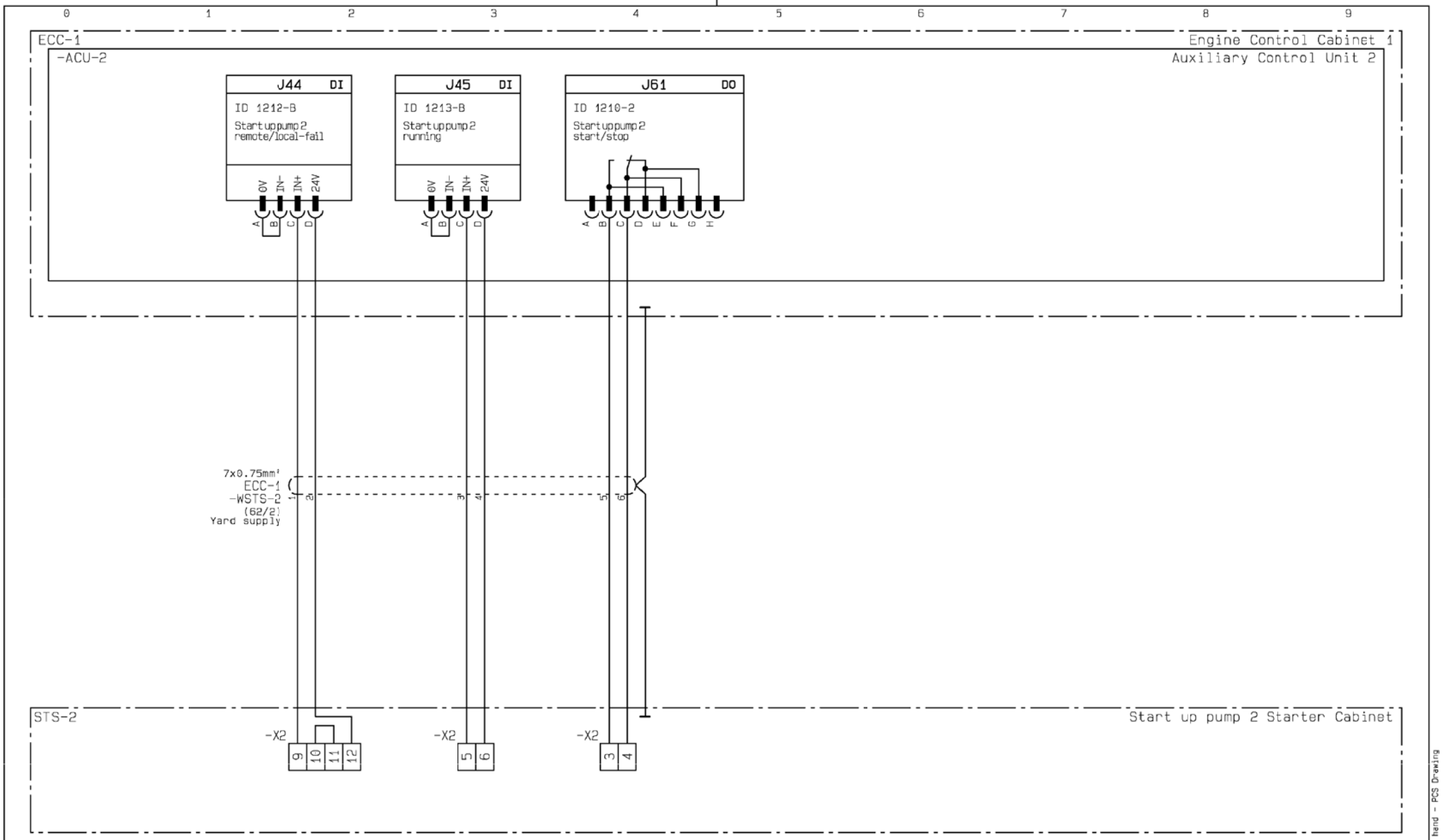
CAD Drawing - do not correct by hand - PCS Drawing



Start up pump 2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		64 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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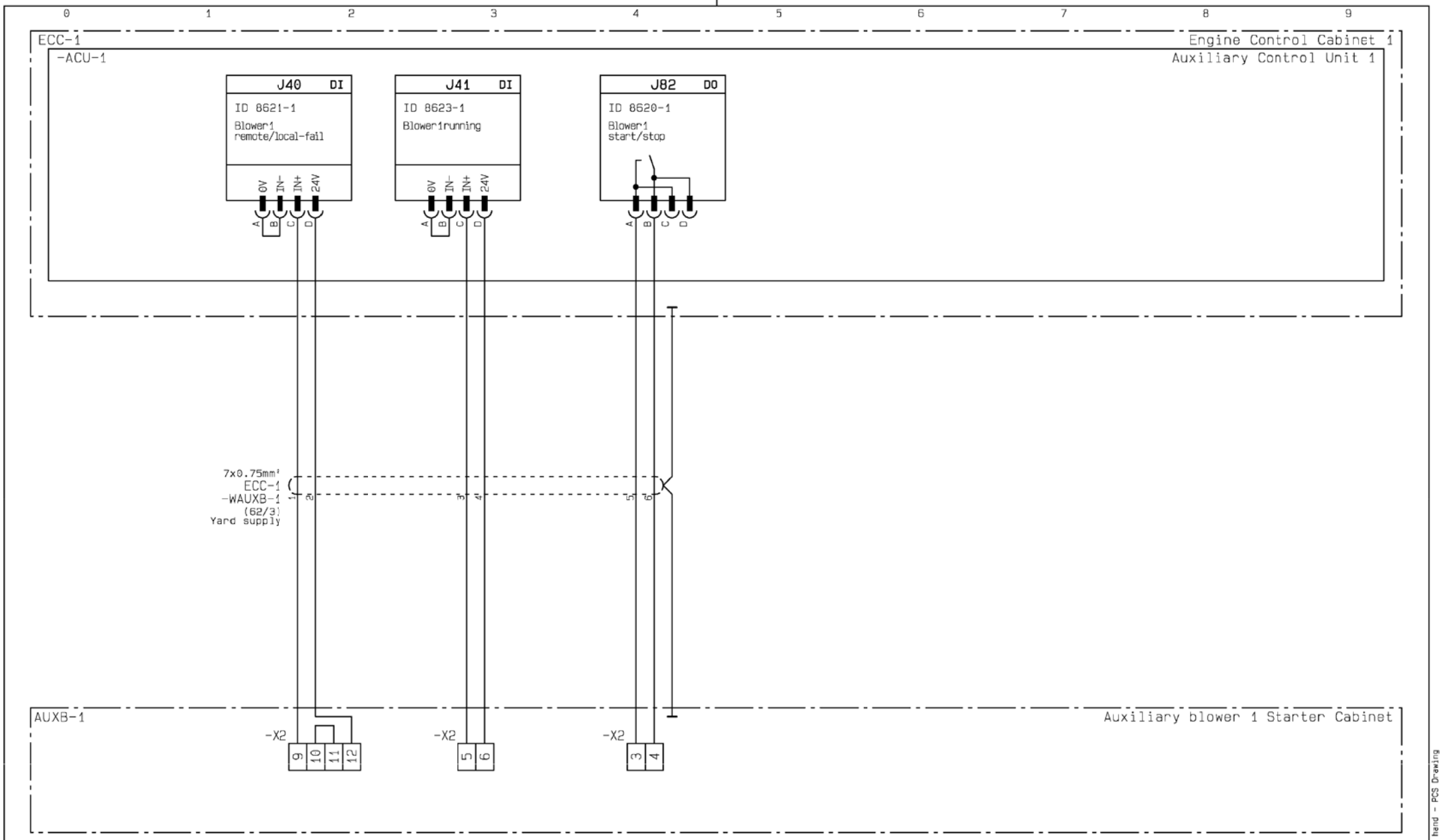
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary blower 1

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		65 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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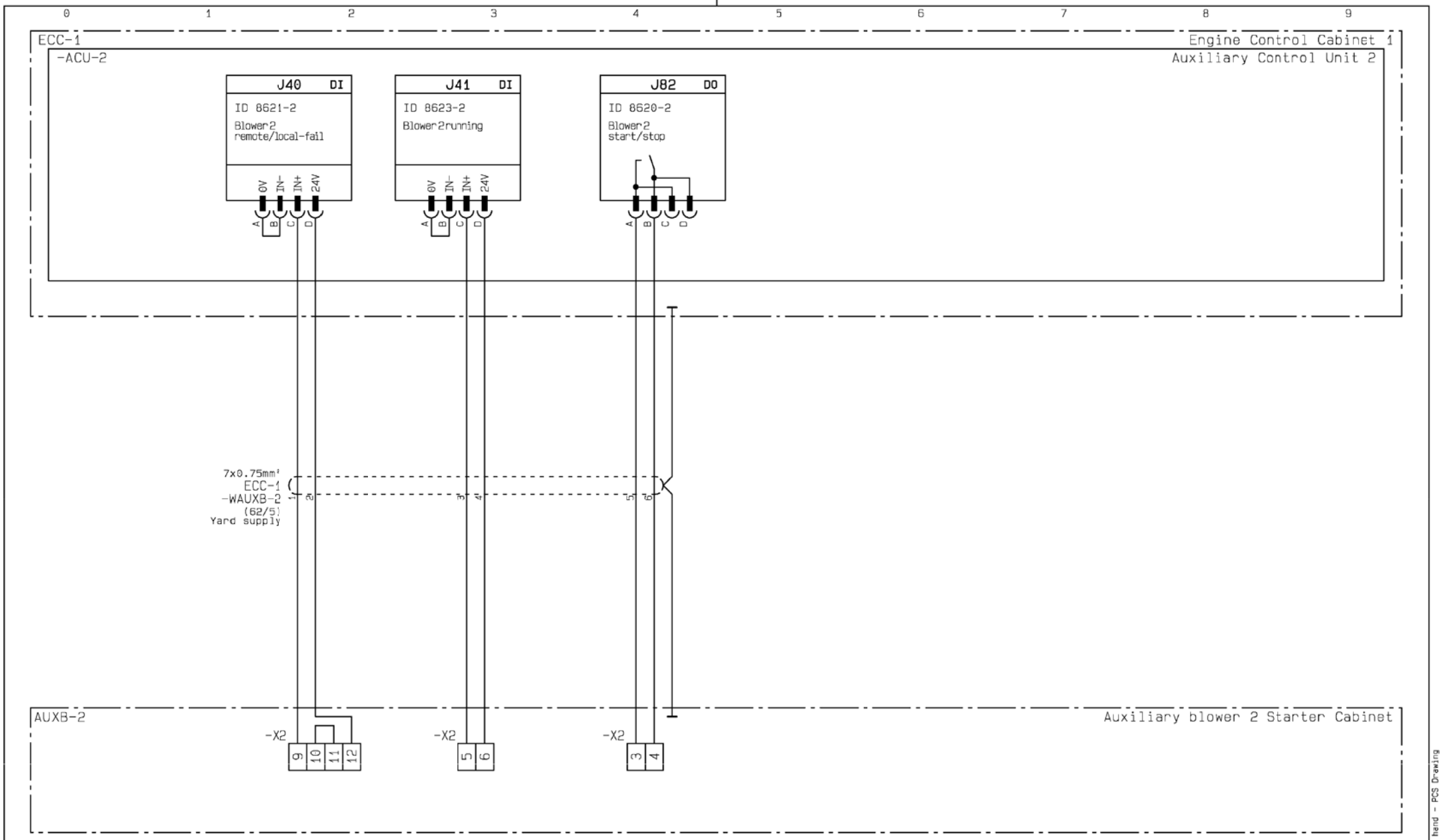
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary blower 2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		66 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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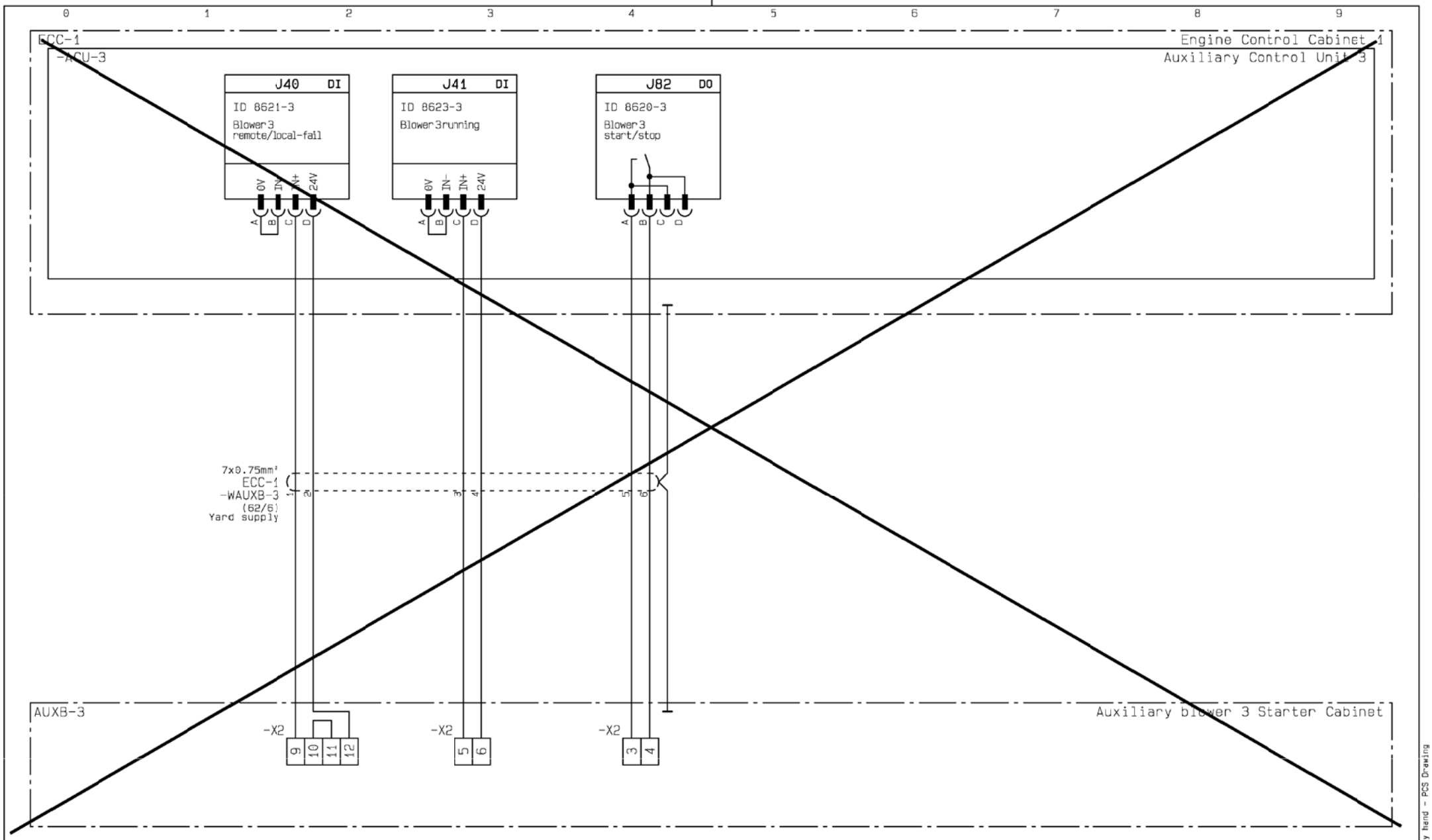
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary blower 3

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		67 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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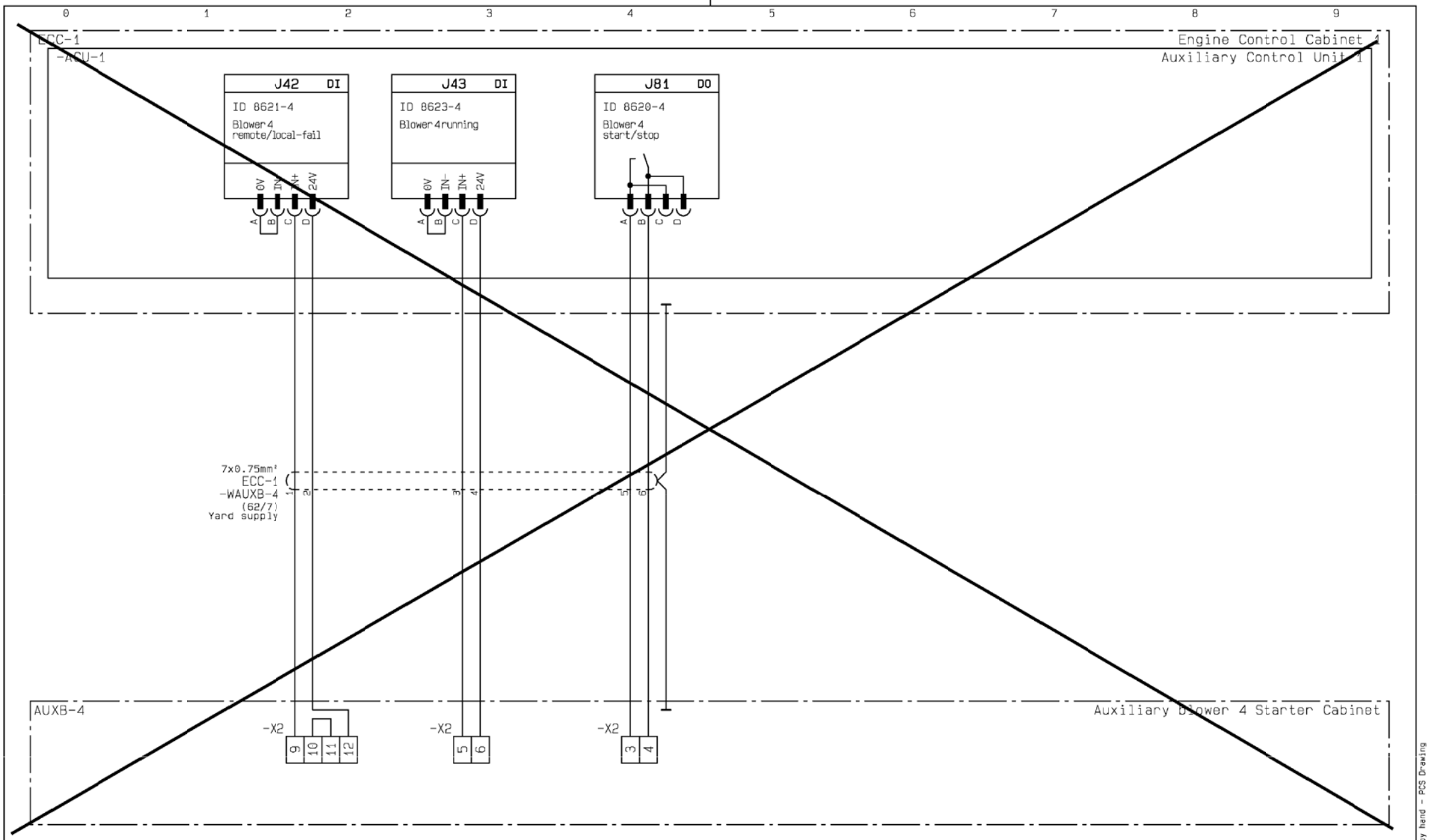
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary blower 4

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		68 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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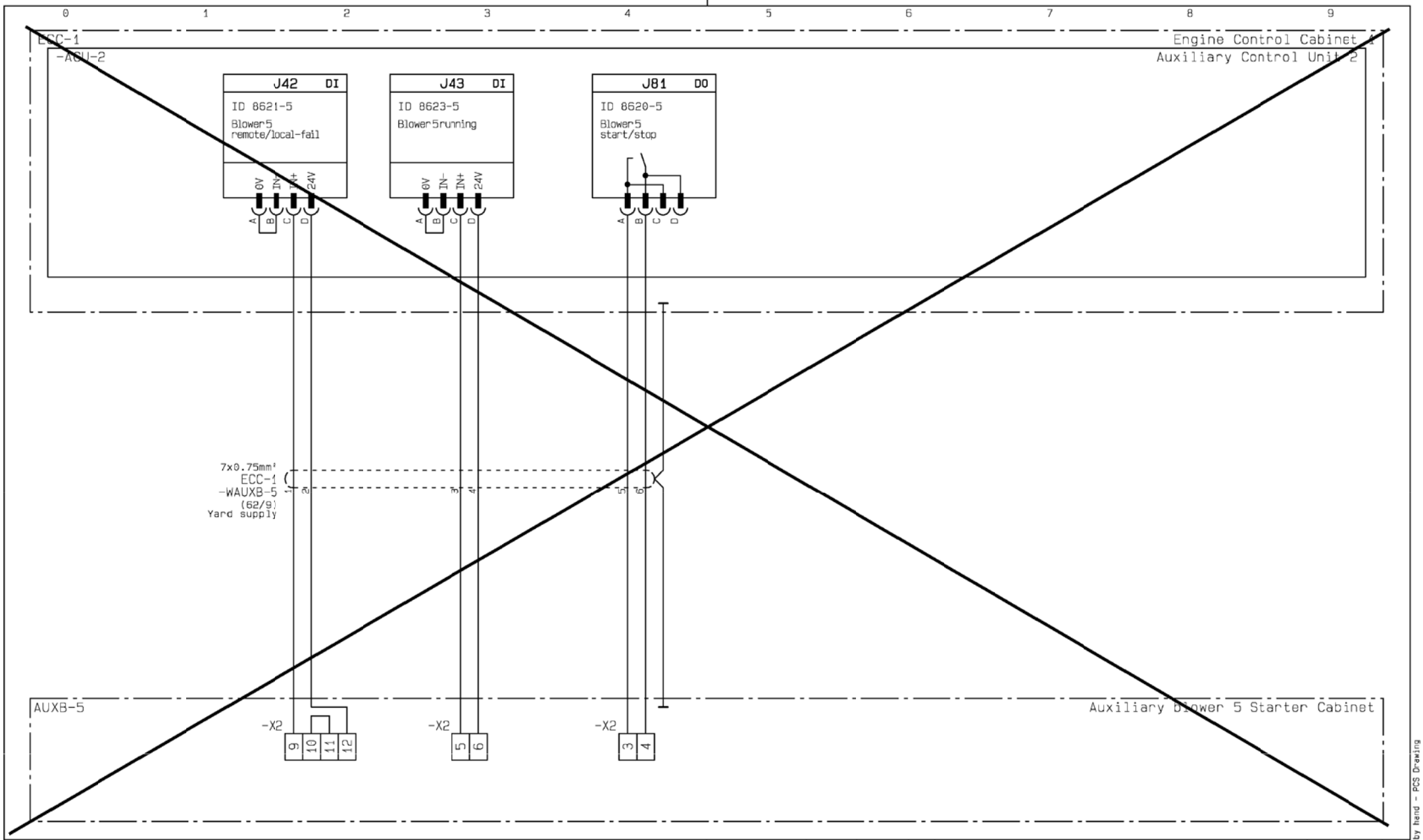
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary blower 5

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		69 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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CYLINDER CONTROL

CYLINDER CONTROL	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 70 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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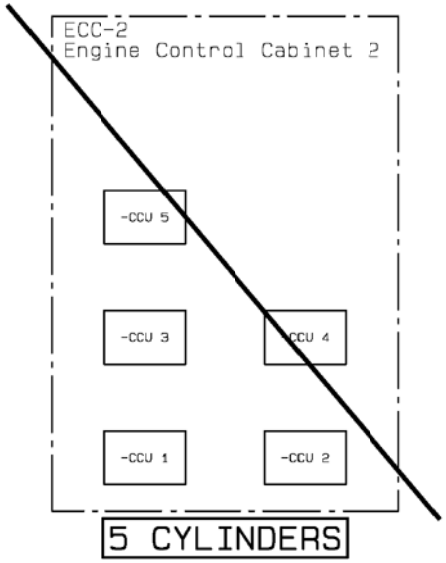
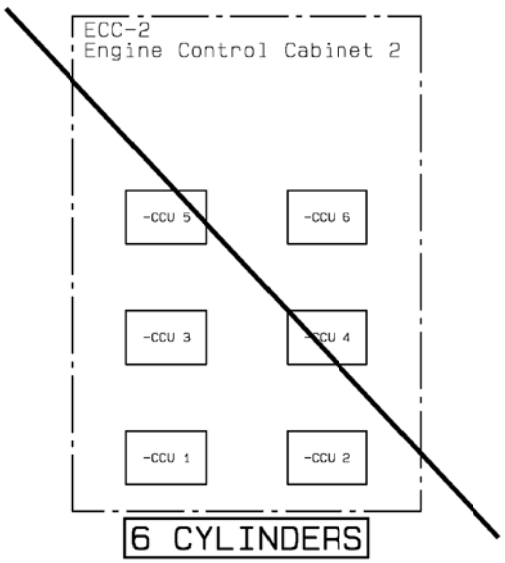
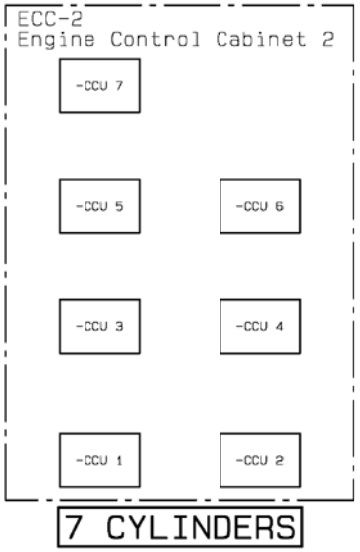


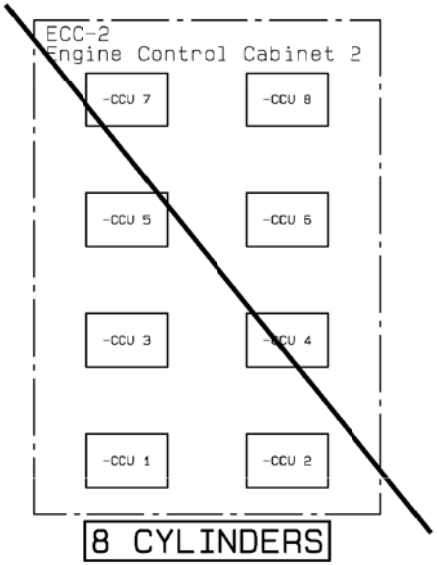
5 CYLINDERS



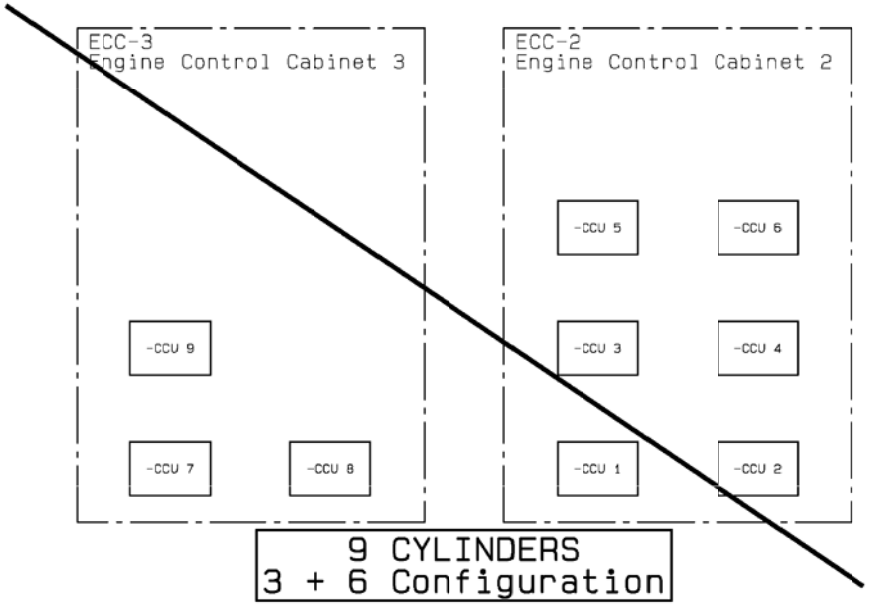
6 CYLINDERS



7 CYLINDERS



8 CYLINDERS



9 CYLINDERS
3 + 6 Configuration

Location of CCU's according to number of cylinders 4-8

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		71 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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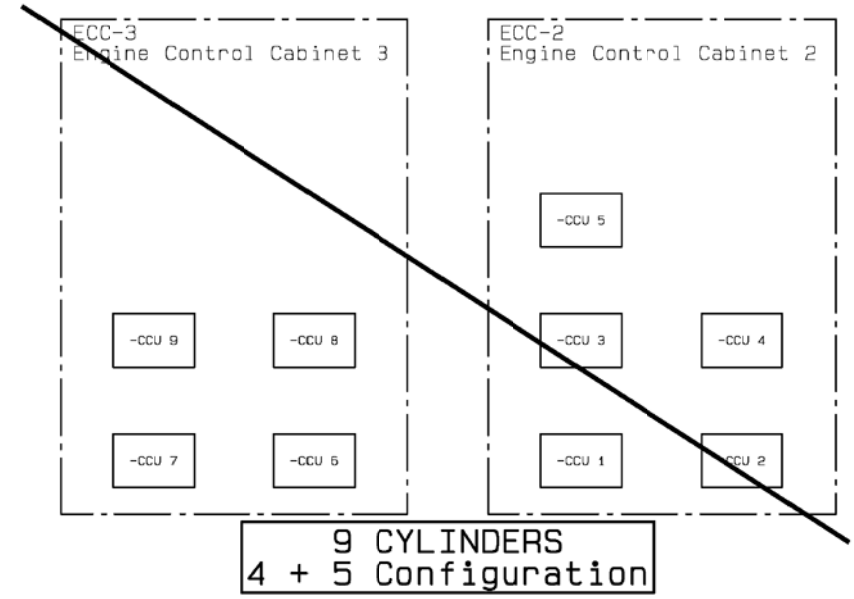
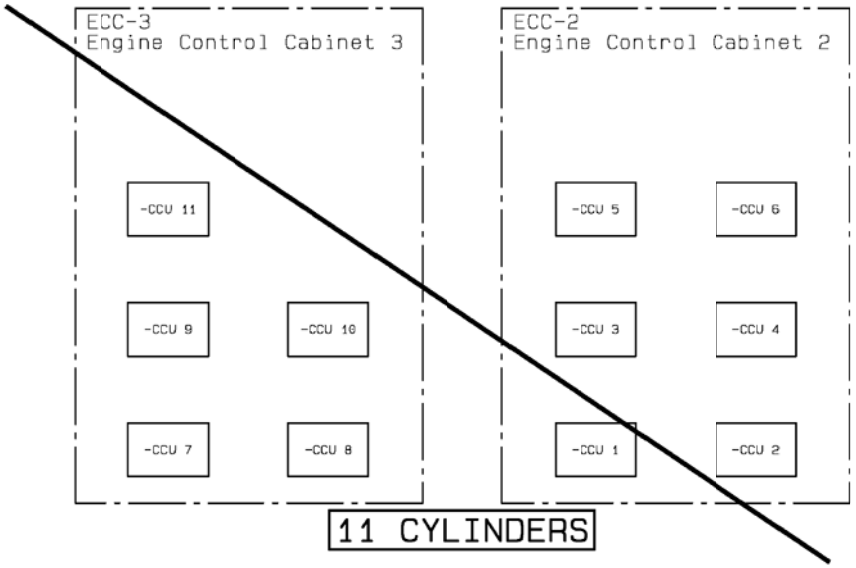
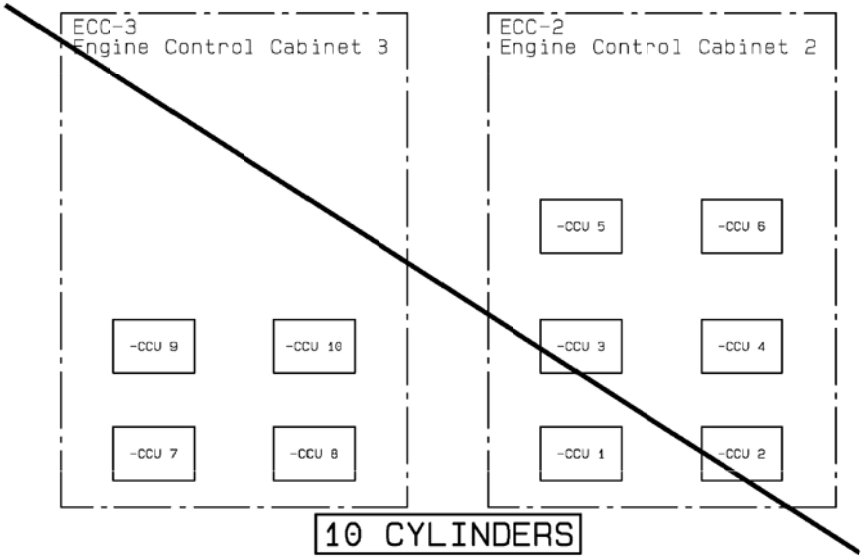


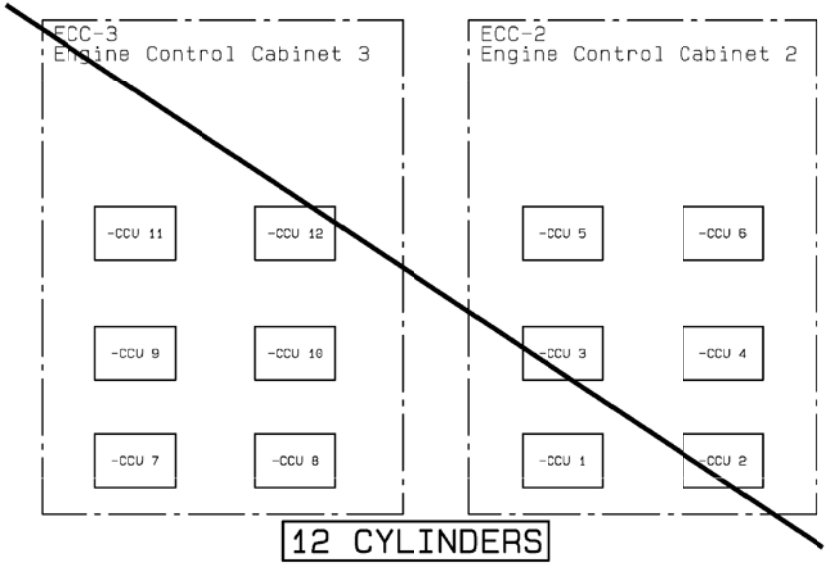
9 CYLINDERS
4 + 5 Configuration



11 CYLINDERS



10 CYLINDERS



12 CYLINDERS

Location of CCU's according to number of cylinders 9-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		72 (225)

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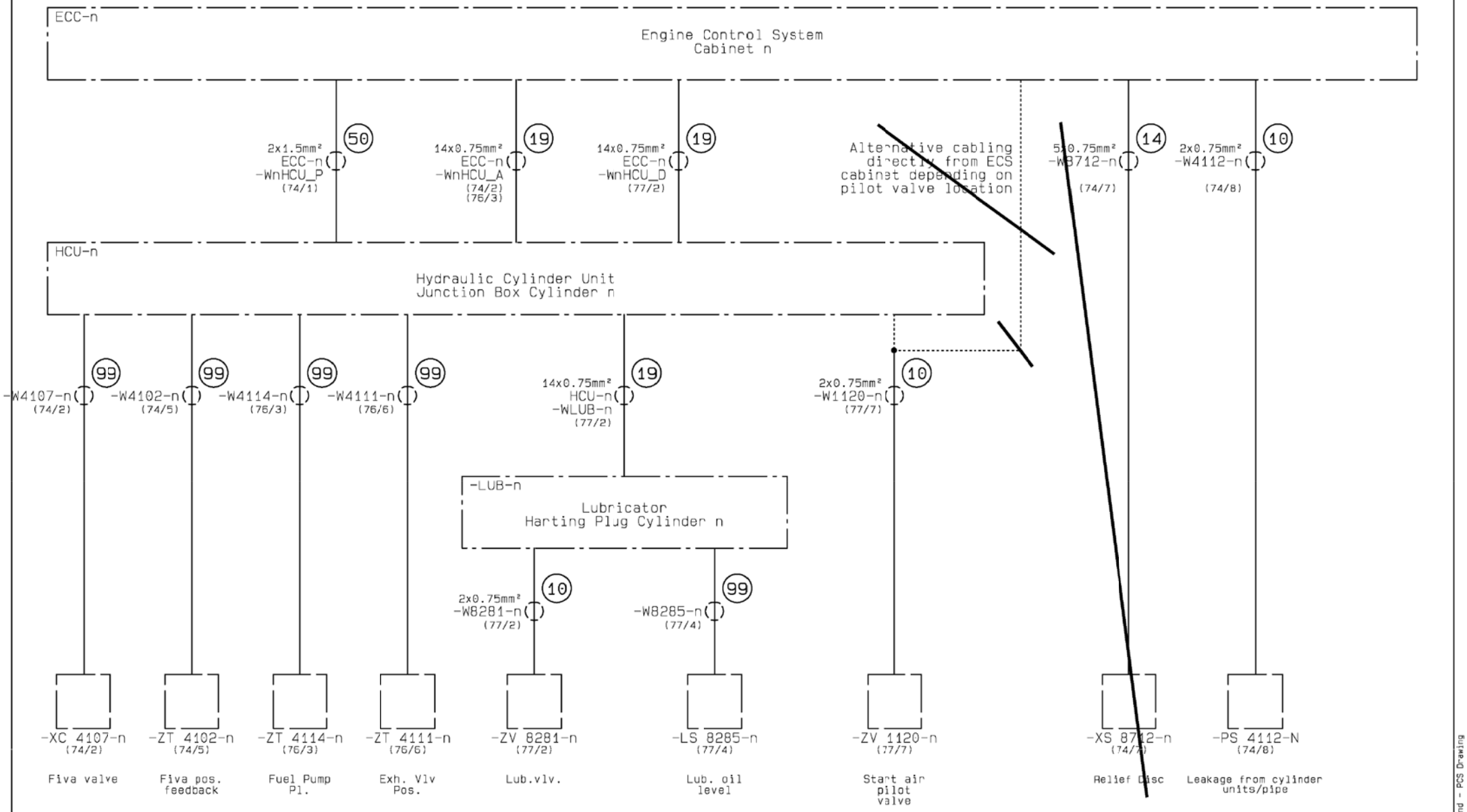
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Hydraulic Cylinder Unit cable overview for each cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		73 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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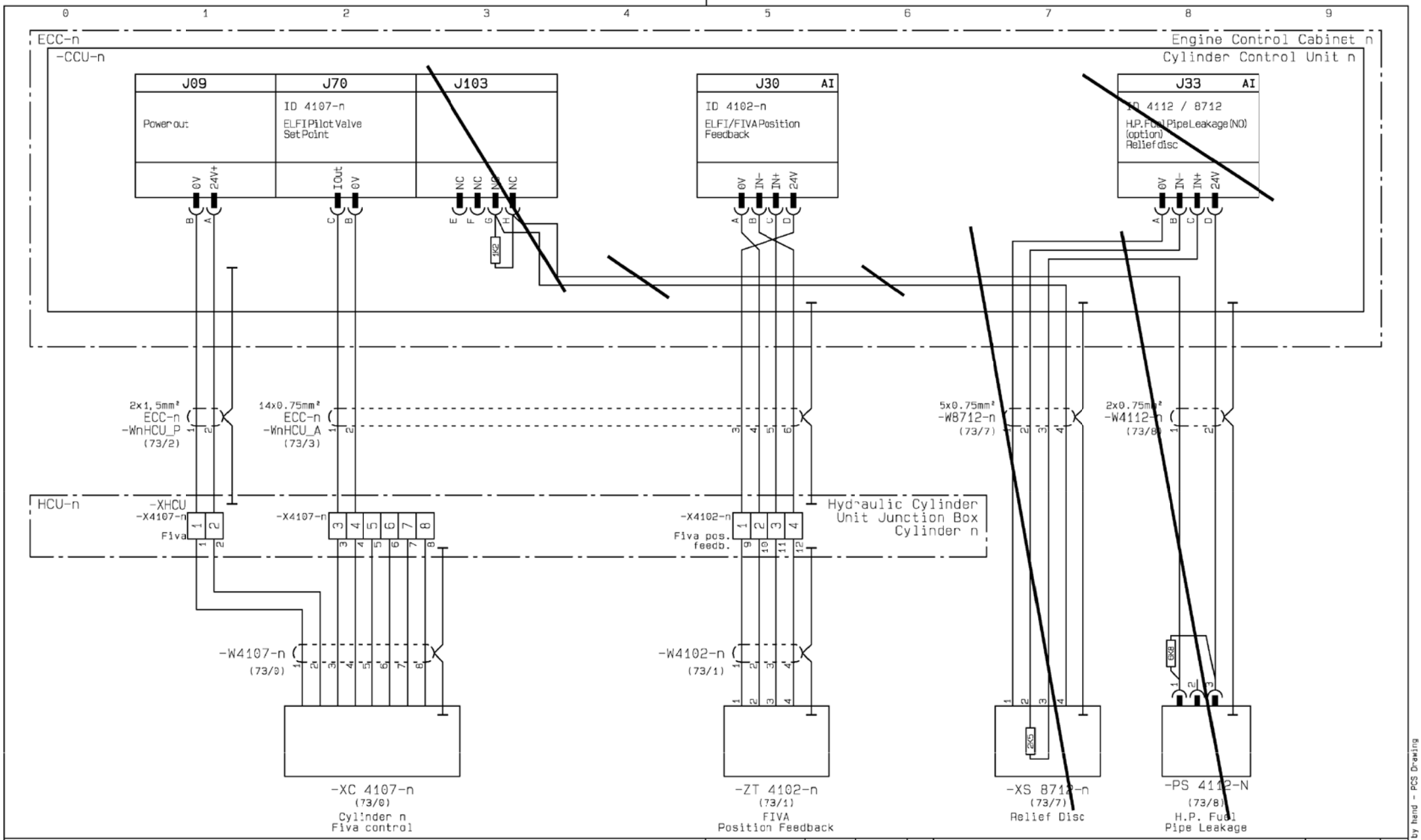
CAD Drawing - do not correct by hand - PCS Drawing



Cylinder n FIVA control and feedback

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		74 (225)

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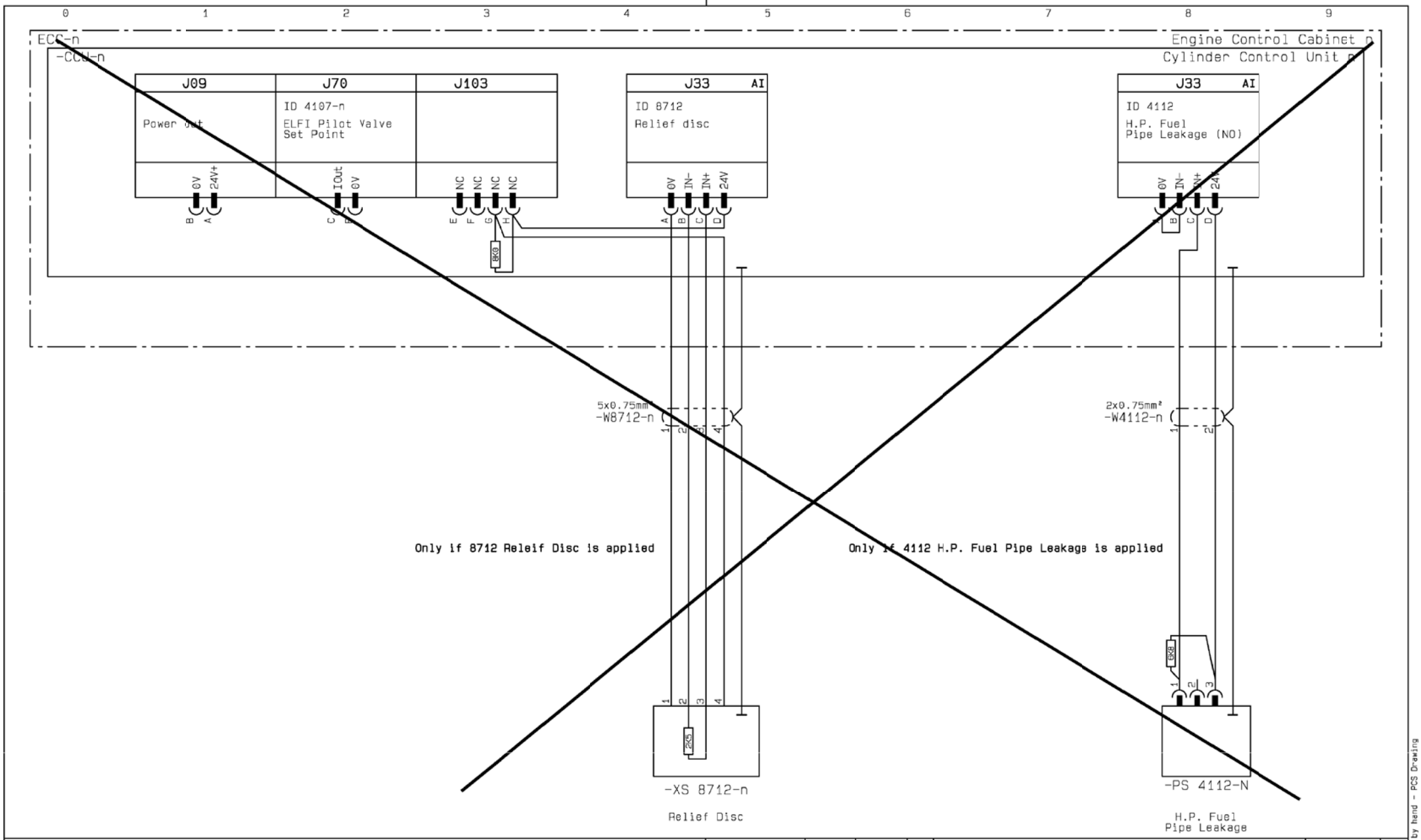
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Cylinder n Relief Disc or H.P. Fuel Pipe Leakage	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 75 (225)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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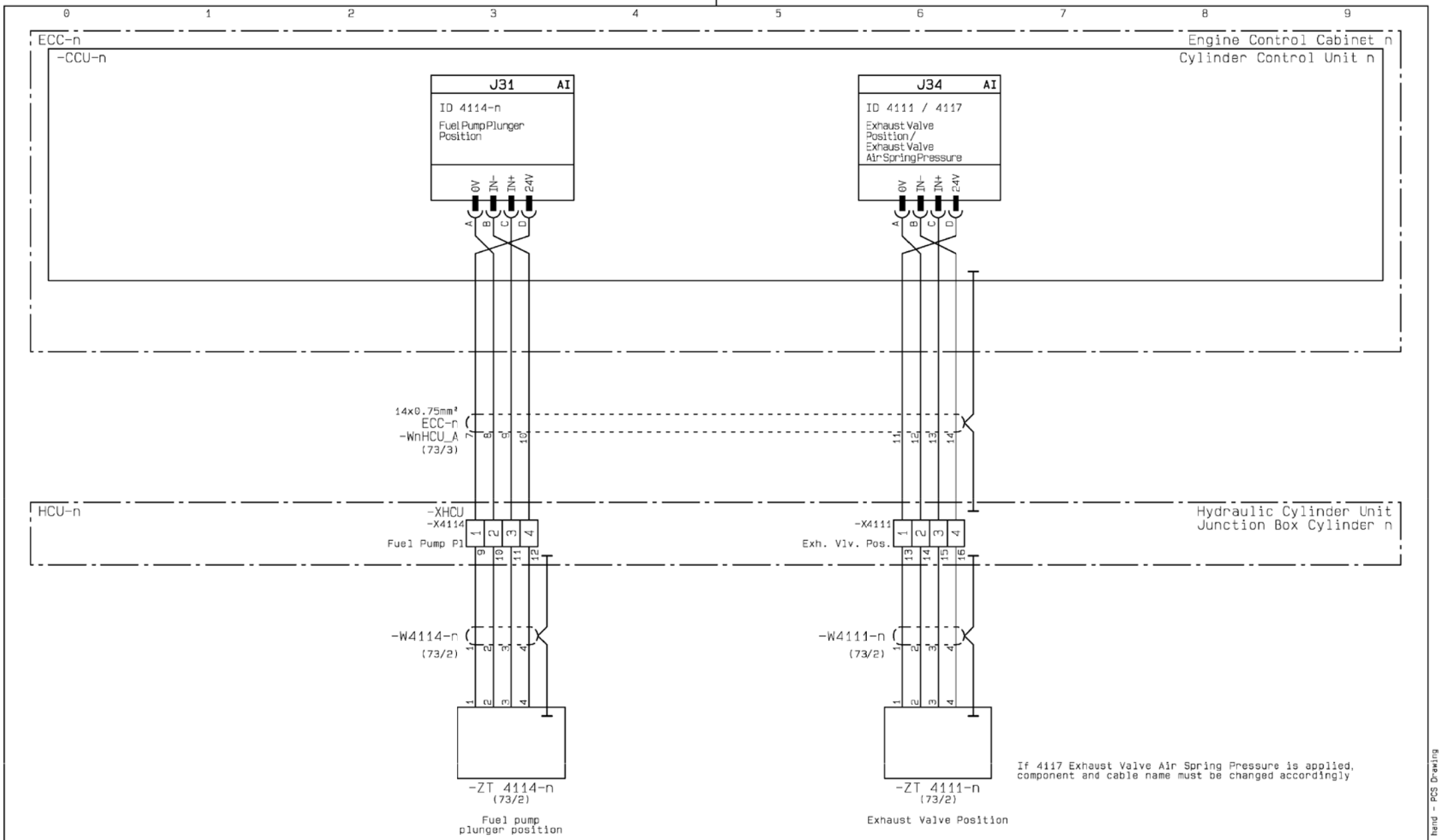
CAD Drawing - do not correct by hand - PCS Drawing



Cylinder n Fuel pump plunger and exhaust valve position

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		76 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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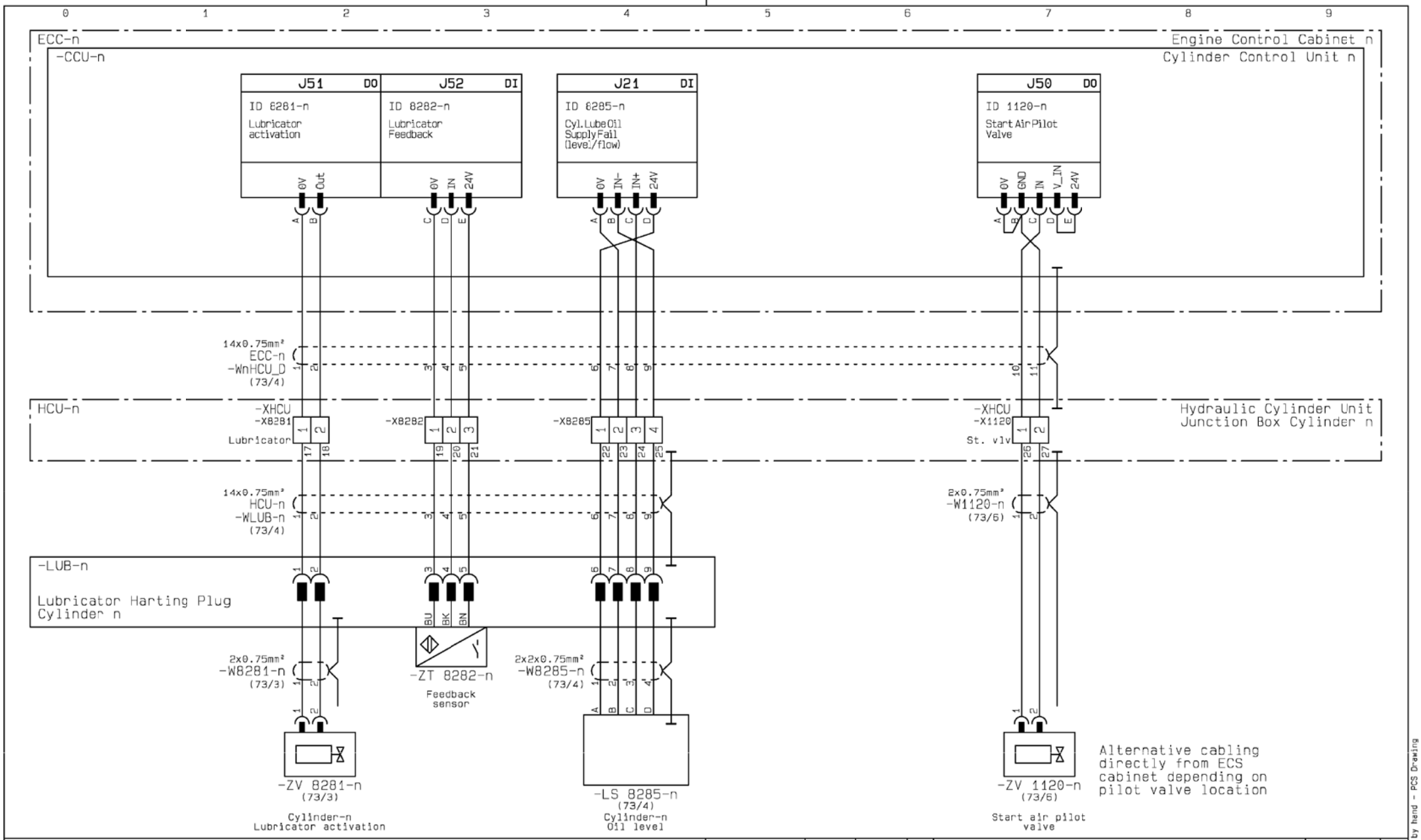
CAD Drawing - do not correct by hand - PCS Drawing



Lubricator and start air pilot valve signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		77 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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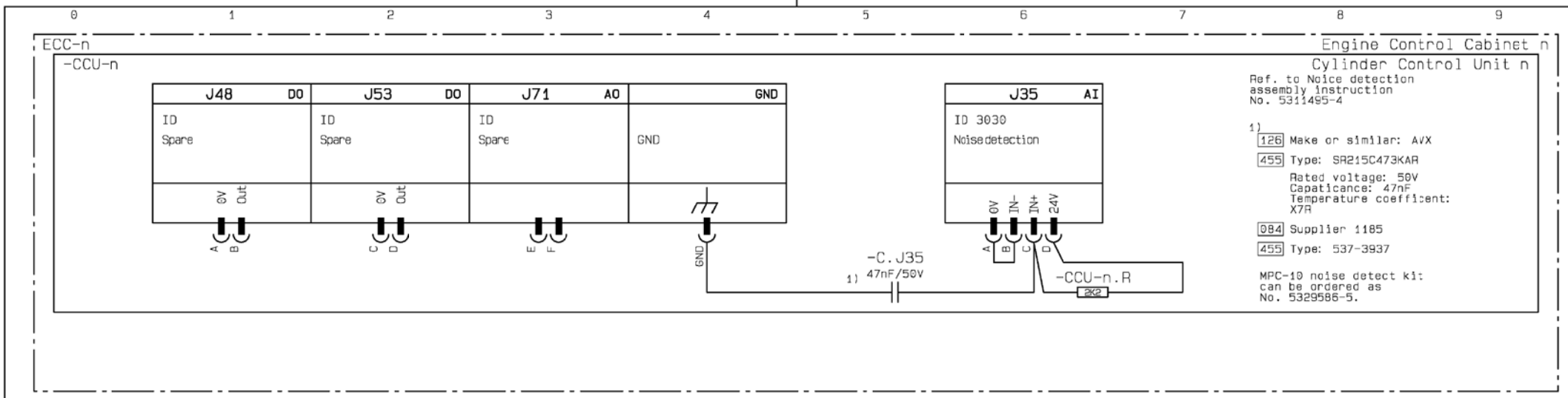

Noise detection	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		78 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

NETWORK A & NETWORK B

NETWORK A & NETWORK B	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5 12 CYL~~		Projection:	Page No.: 79 (225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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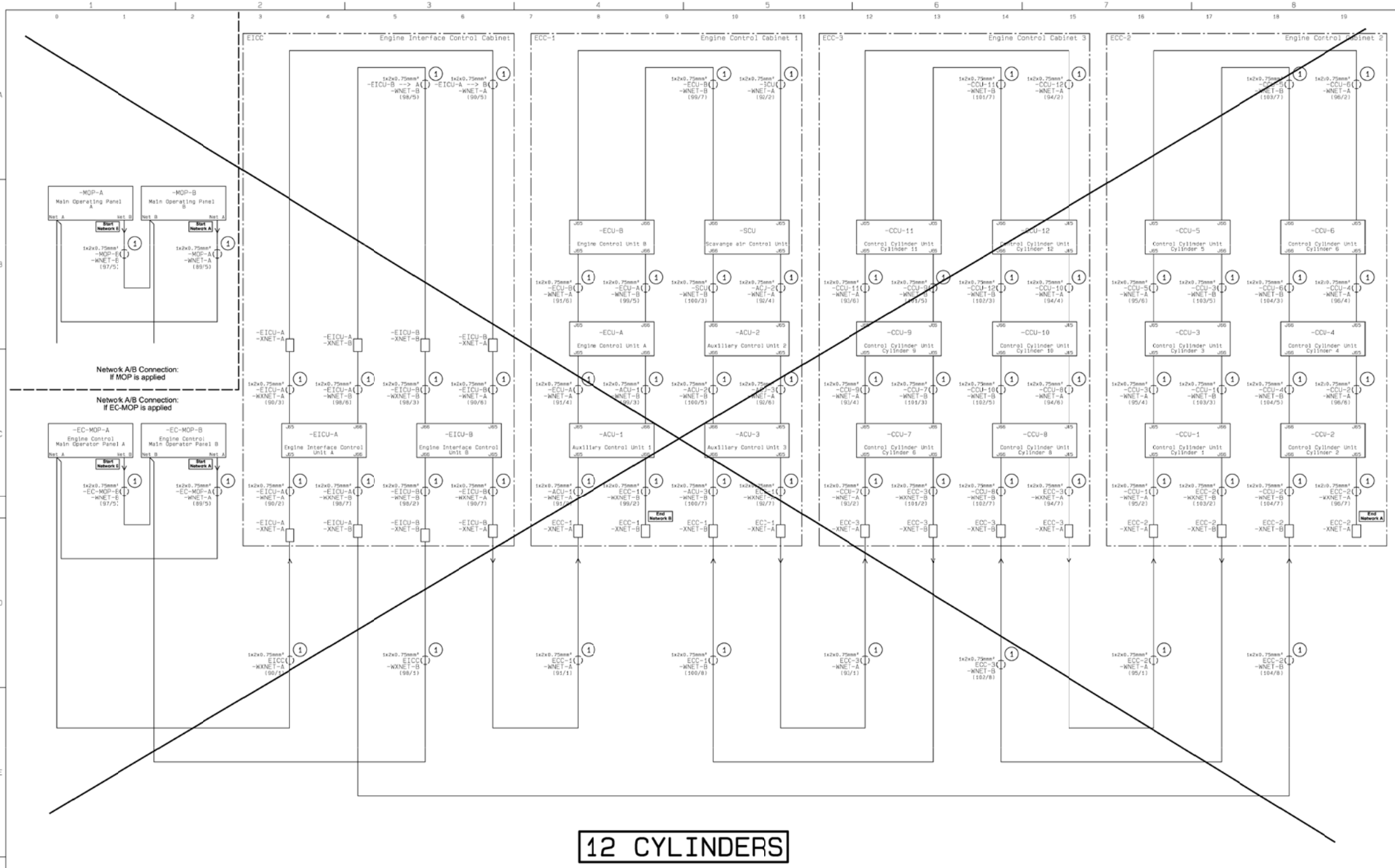
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 12 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		80 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Icont. No.:
	ME ECS 7 CYL	4H-12760

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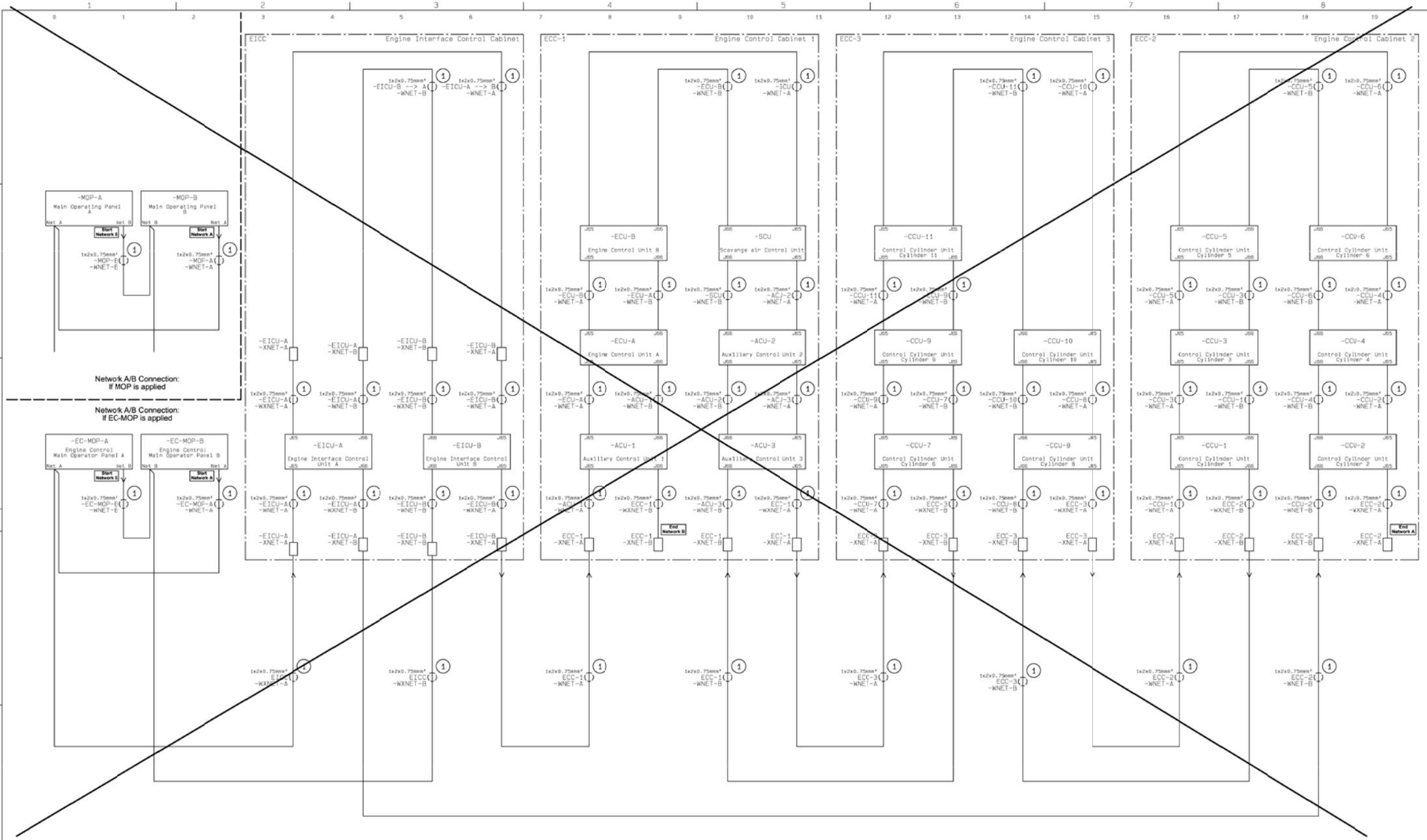
CAD Drawing - do not correct by hand - PCS Drawing



11 CYLINDERS

ME ECS - Layout of Cables to/from Network A & Network B - 11 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	ME ECS 5-12 CYL		81 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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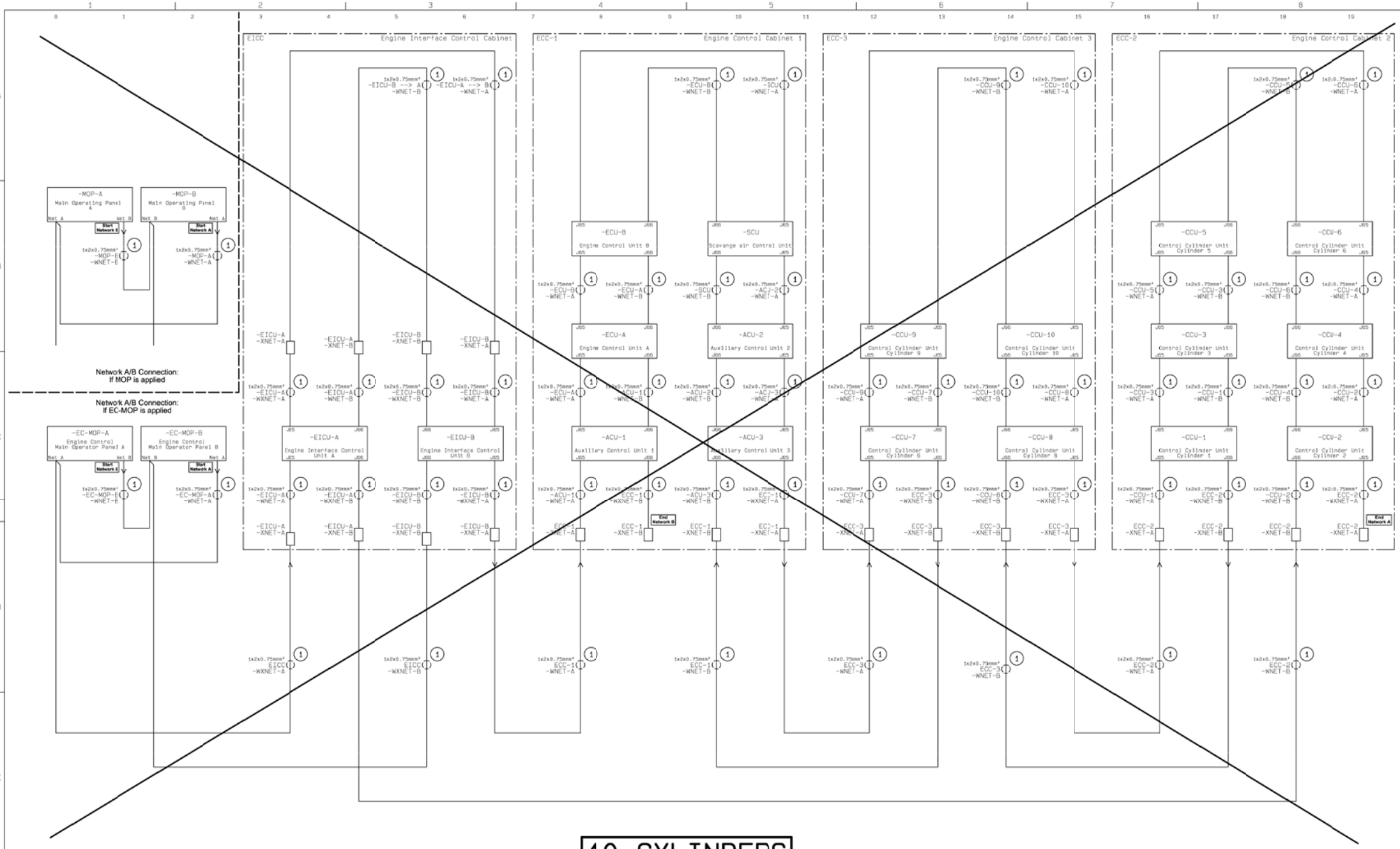
CAD Drawing - do not correct by hand - PCS Drawing



10 CYLINDERS

ME ECS - Layout of Cables to/from Network A & Network B - 10 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		82 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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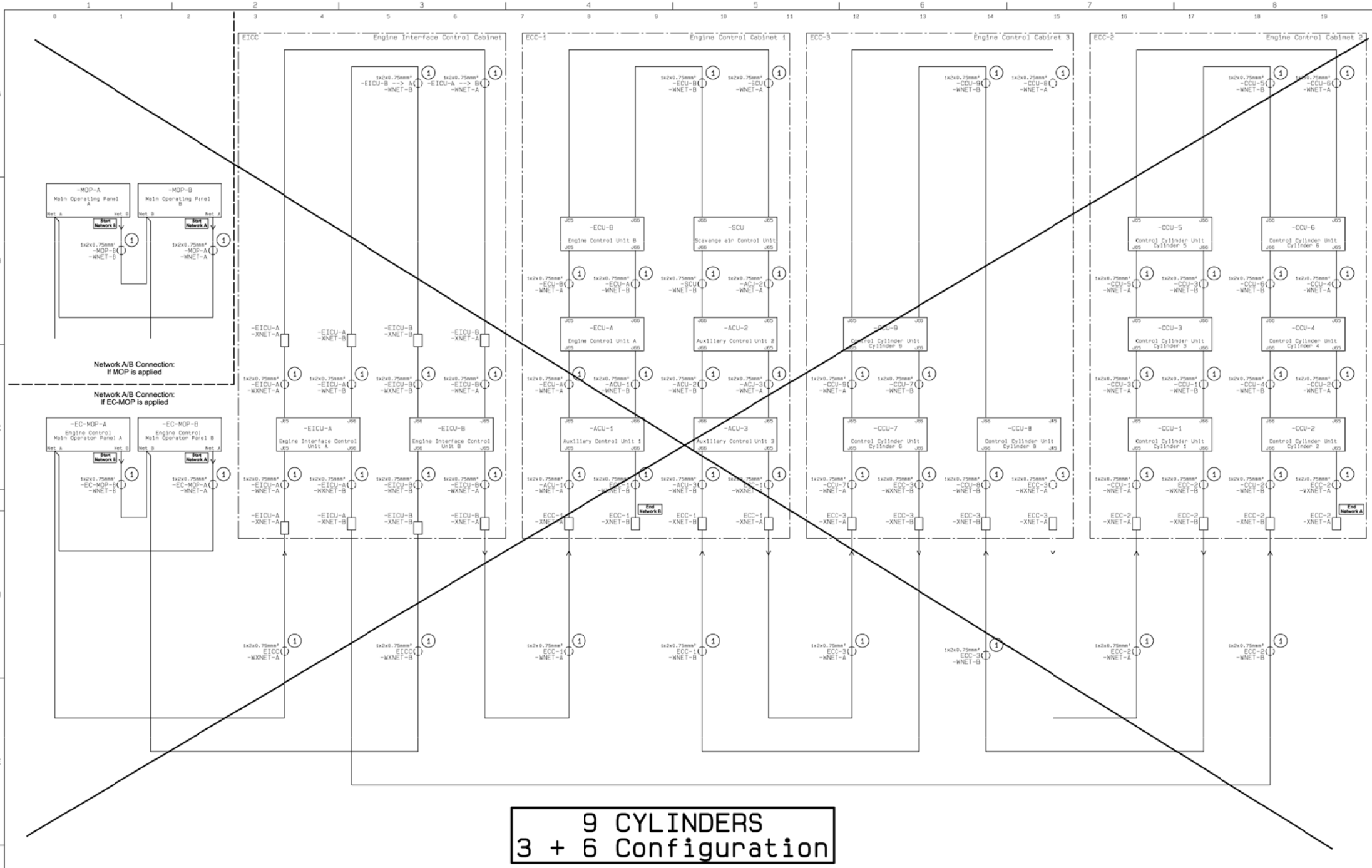
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 9 Cylinder (3 + 6 Configuration)

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		83 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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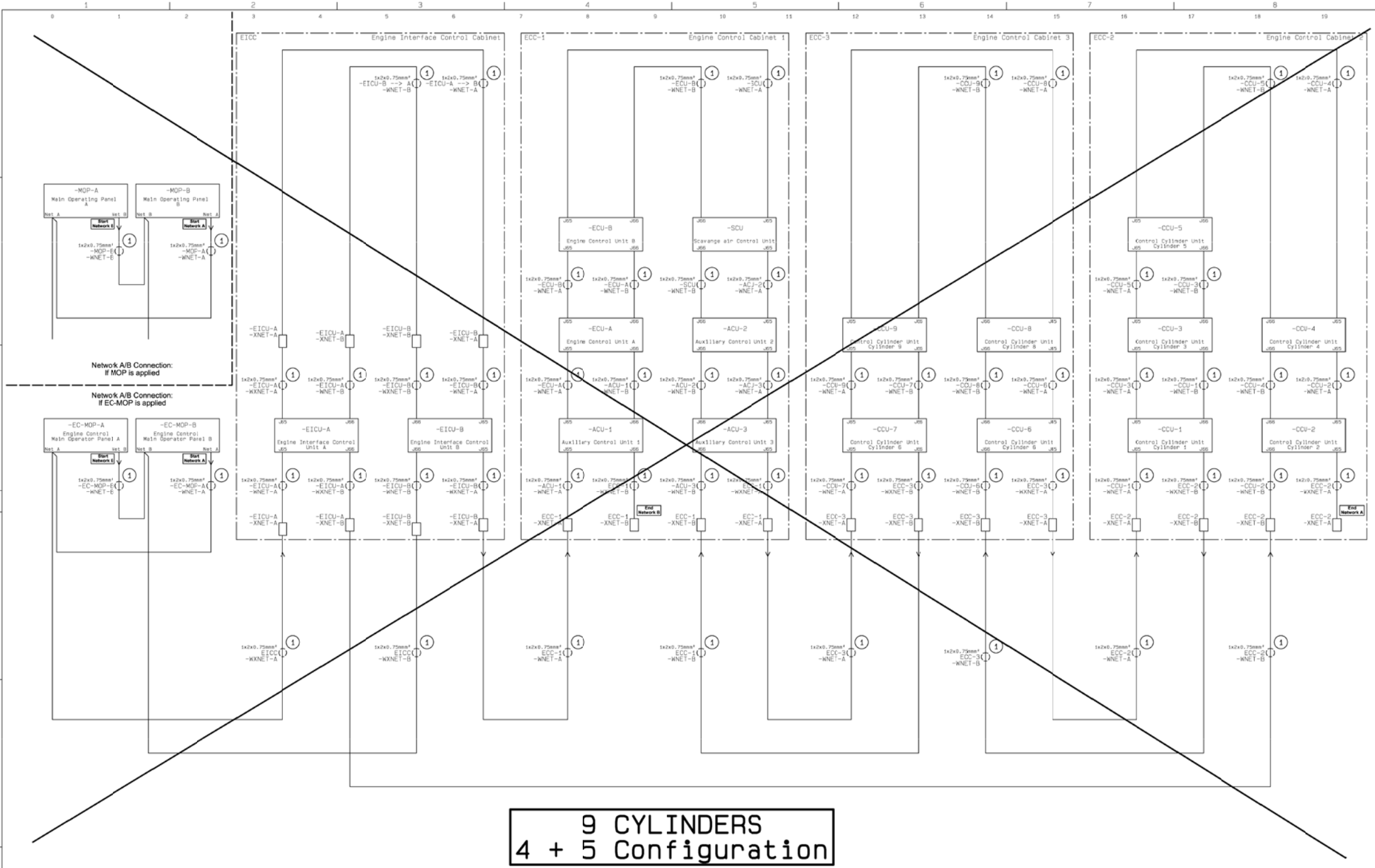
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 9 Cylinder (4 + 5 Configuration)

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		84 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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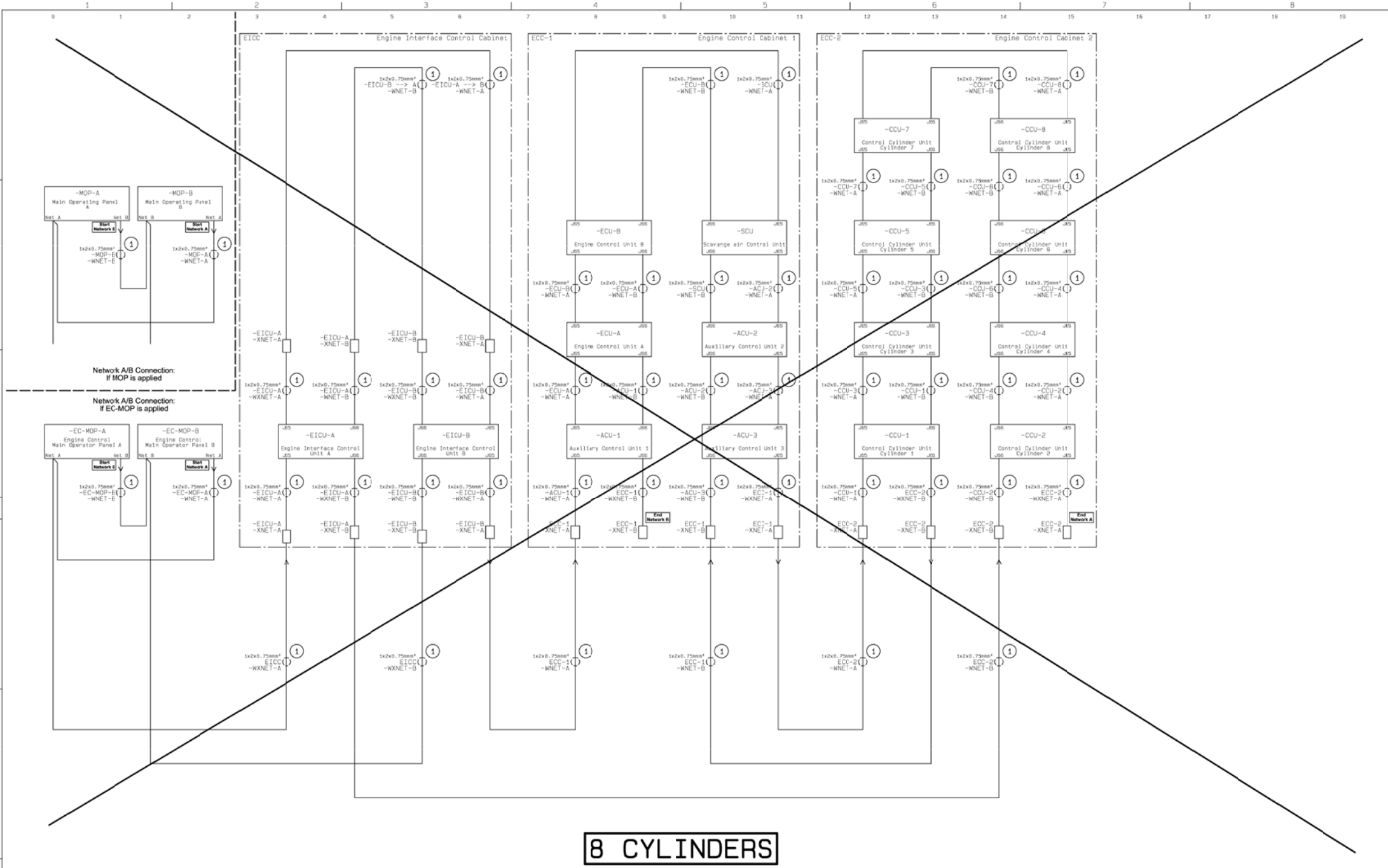
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 8 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		85 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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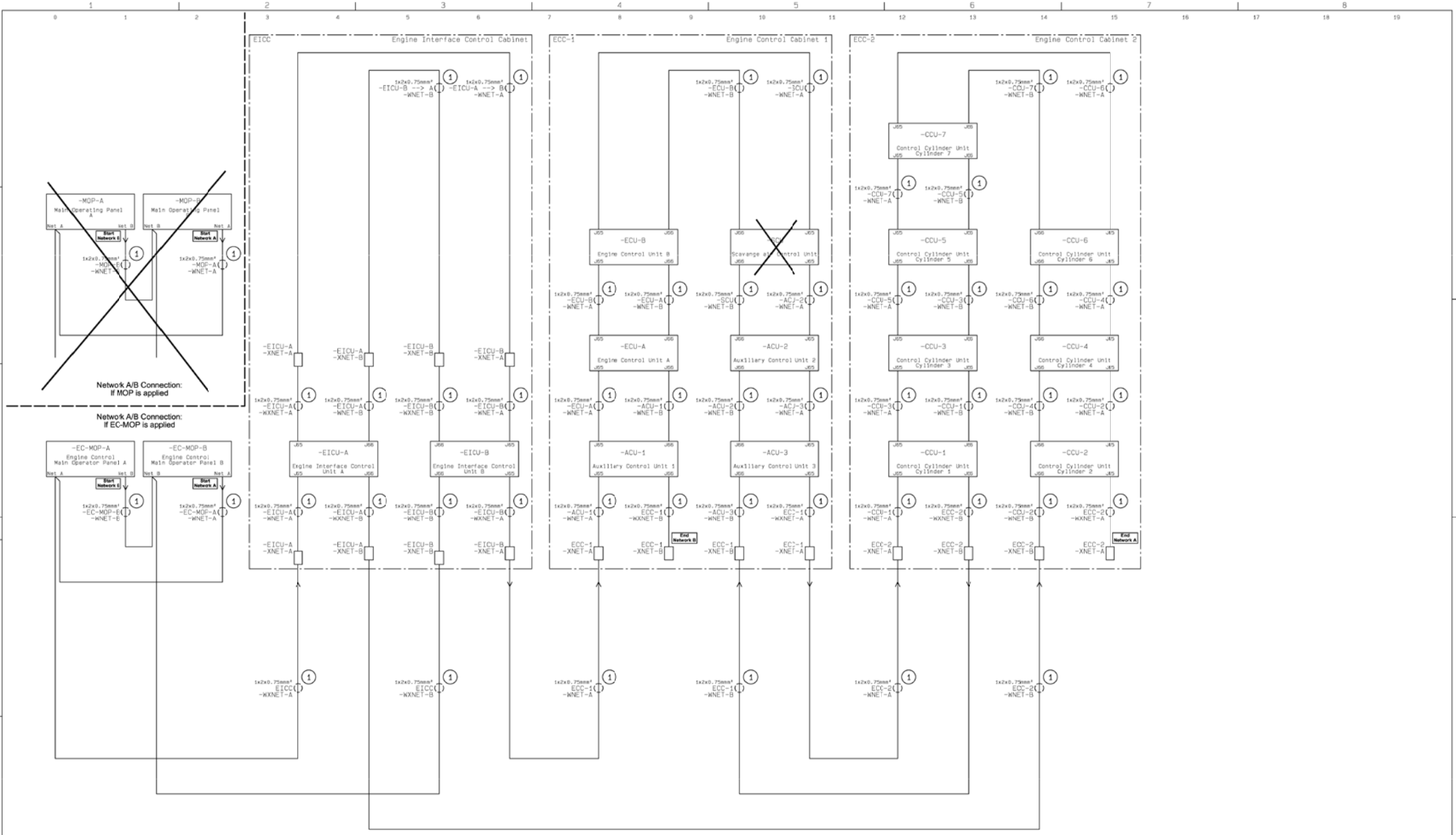
CAD Drawing - do not correct by hand - PCS Drawing



7 CYLINDERS

ME ECS - Layout of Cables to/from Network A & Network B - 7 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		86 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Icont. No.:
	ME ECS 7 CYL	4H-12760

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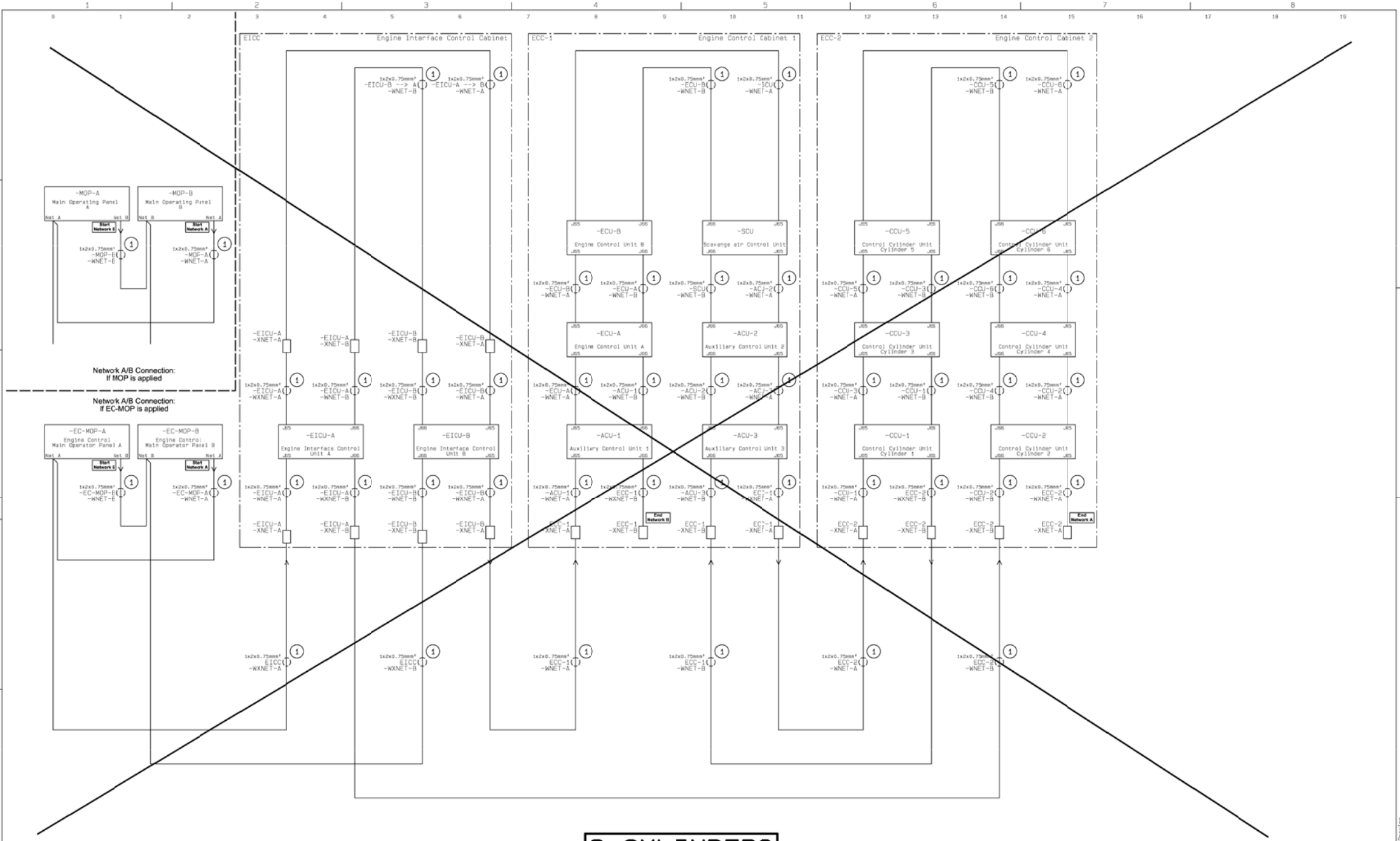
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 6 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		87 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Icont No.:
	ME ECS 7 CYL	4H-12760

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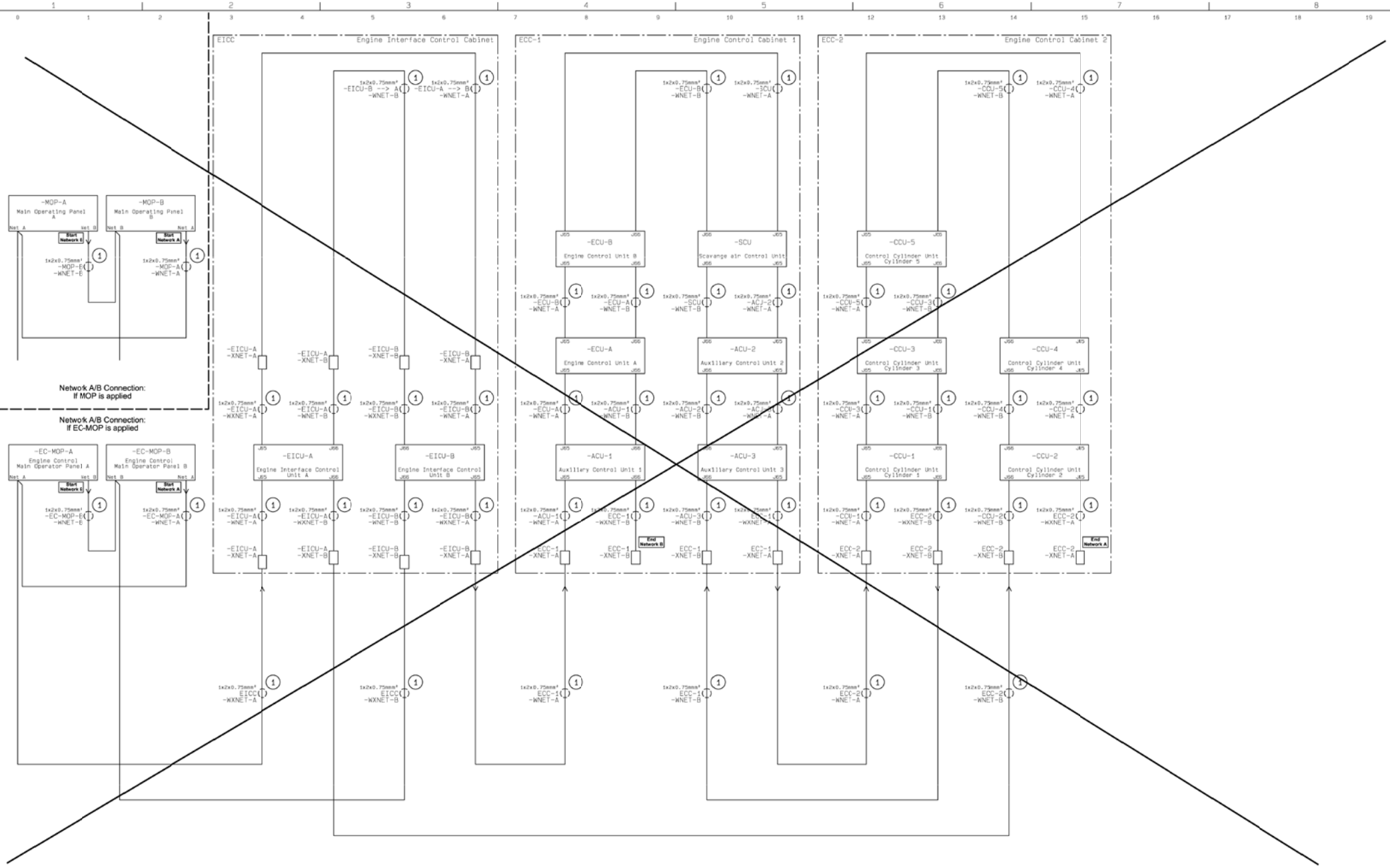
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 5 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		88 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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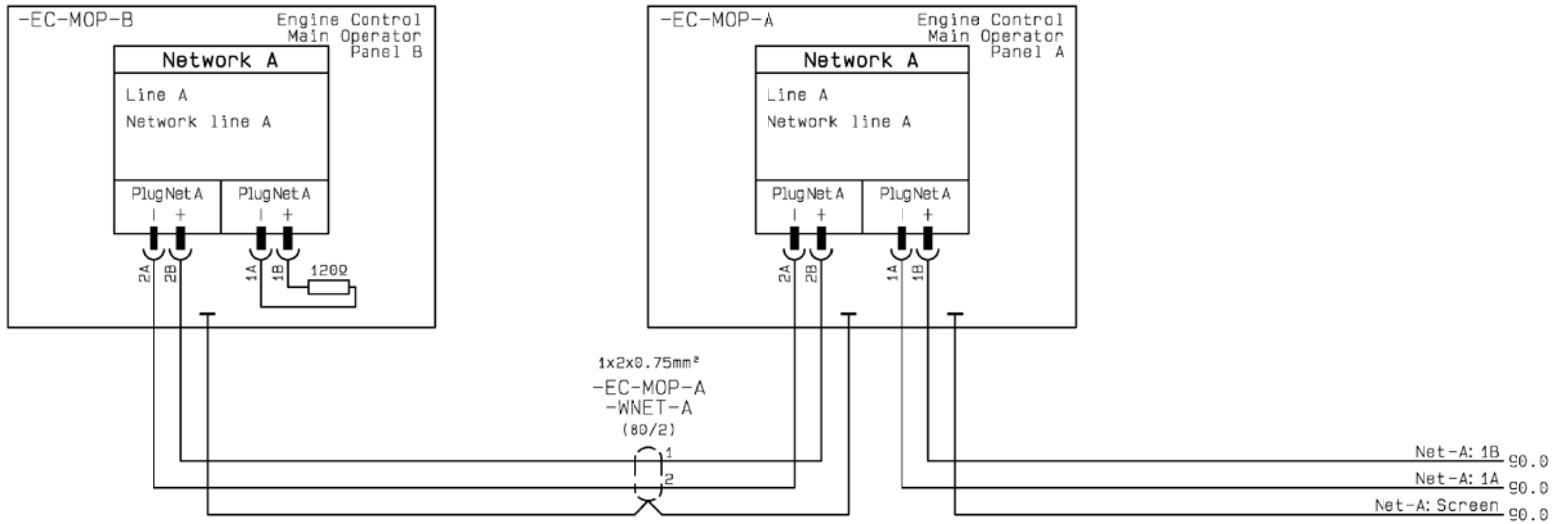
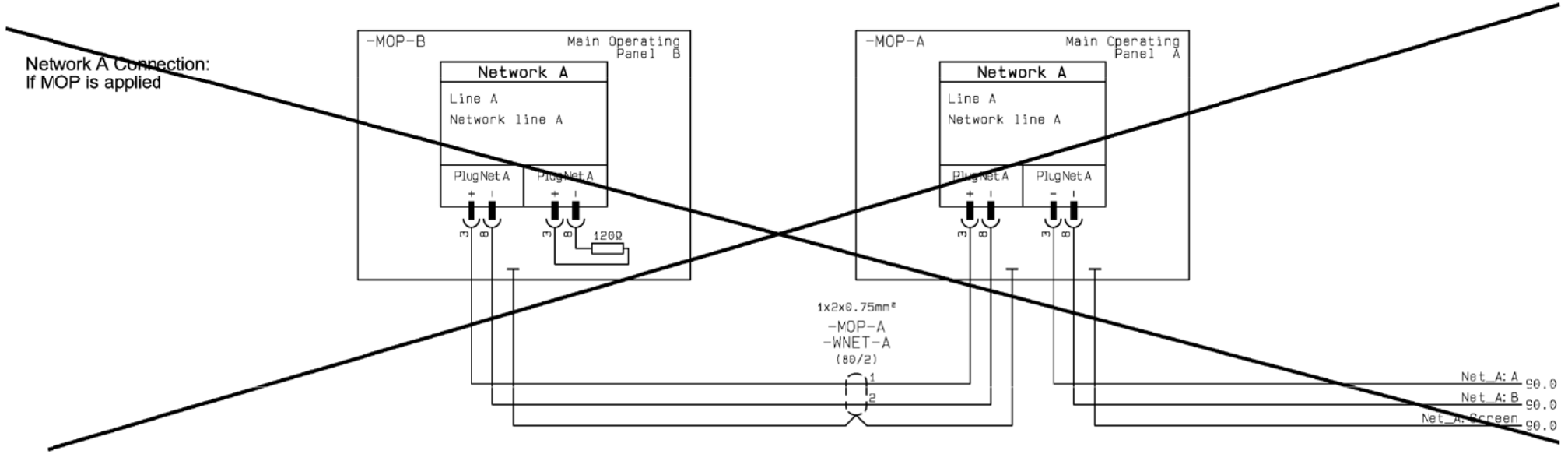
CAD Drawing - do not correct by hand - PCS Drawing

Network A Connection:
If EC-MOP is applied



Network A Connection:
If MOP is applied



ME ECS, Network A - EC-MOP-B, EC-MOP-A or MOP-B, MOP-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		89 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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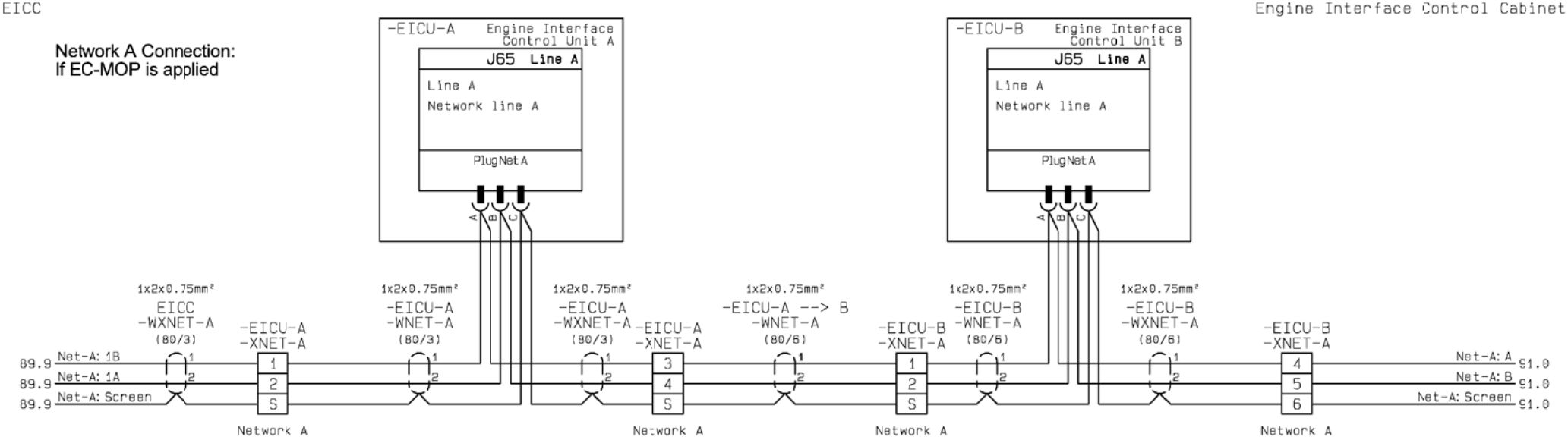
CAD Drawing - do not correct by hand - PCS Drawing

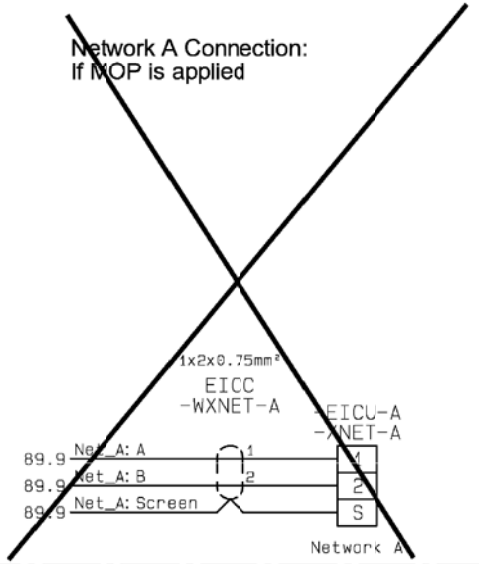
EICC

Engine Interface Control Cabinet

Network A Connection:
If EC-MOP is applied



Network A Connection:
If MOP is applied



ME ECS EICC, Network A - EICU-A, EICU-B	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 90 (225)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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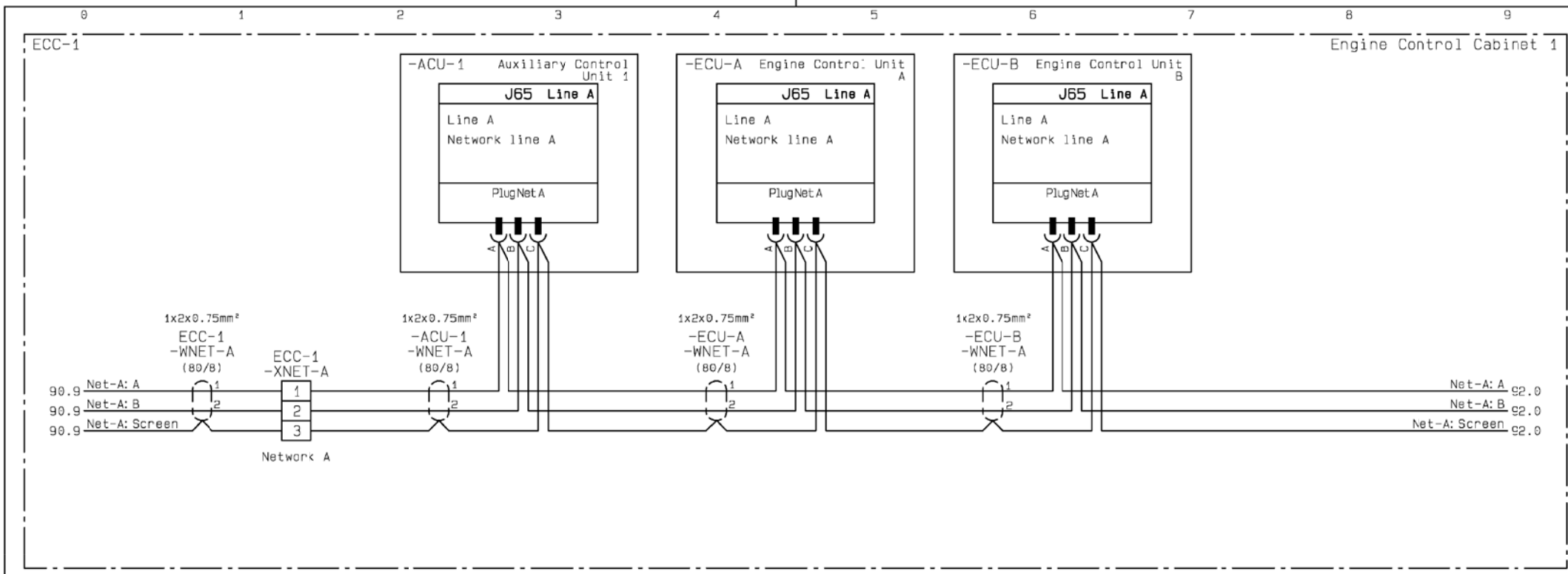
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Network A - ACU-1, ECU-A, ECU-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 91 (225)

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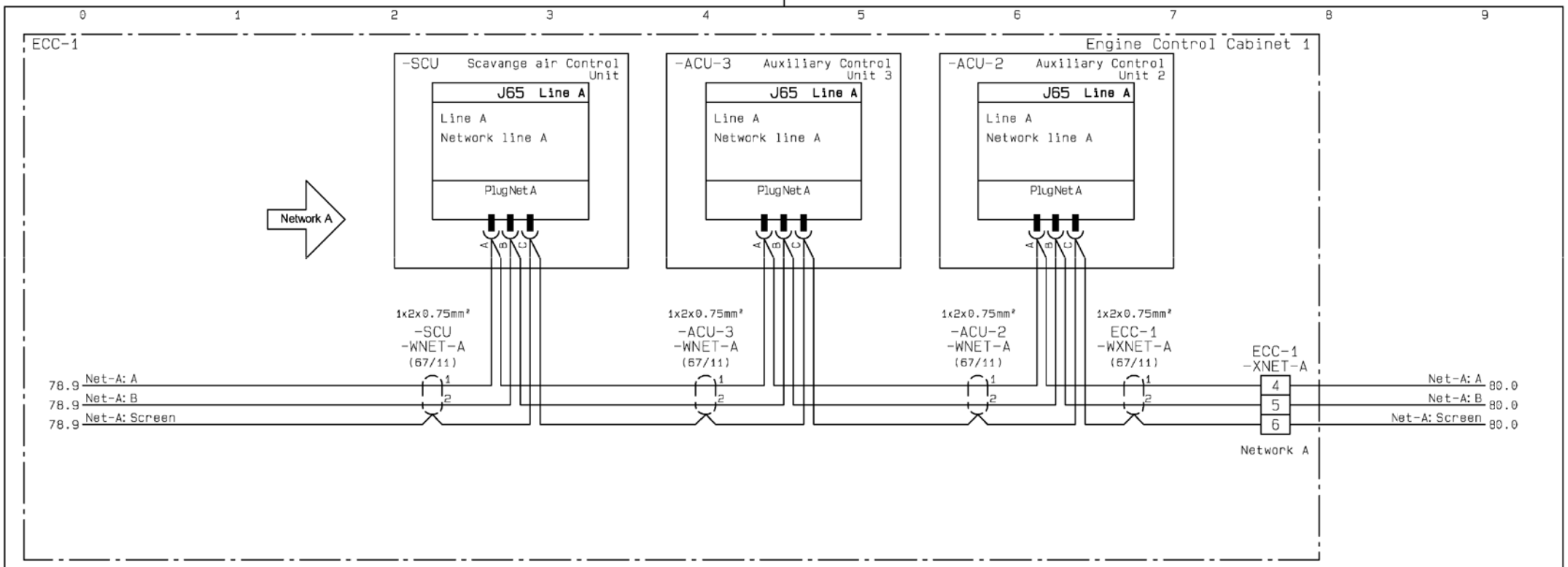
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Network A - SCU, ACU-2, ACU-3

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		92(225)

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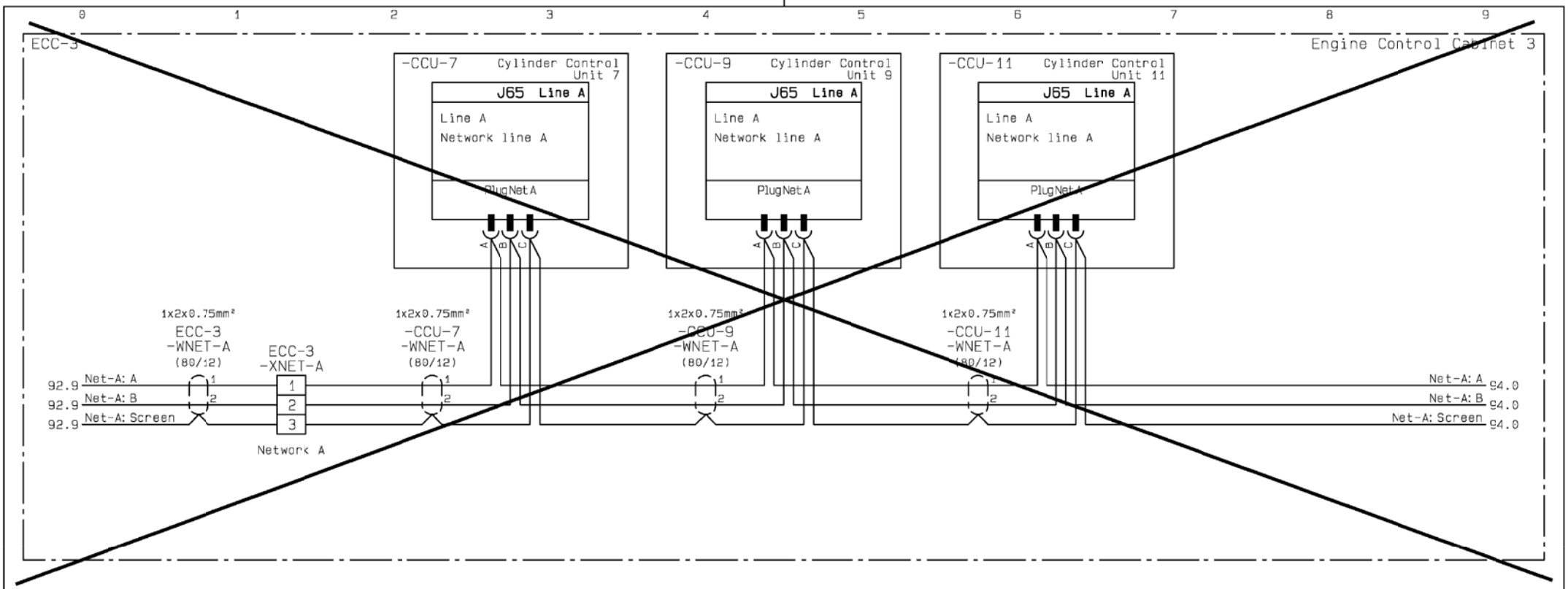
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Network A - CCU-7, CCU-9, CCU-11

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		93 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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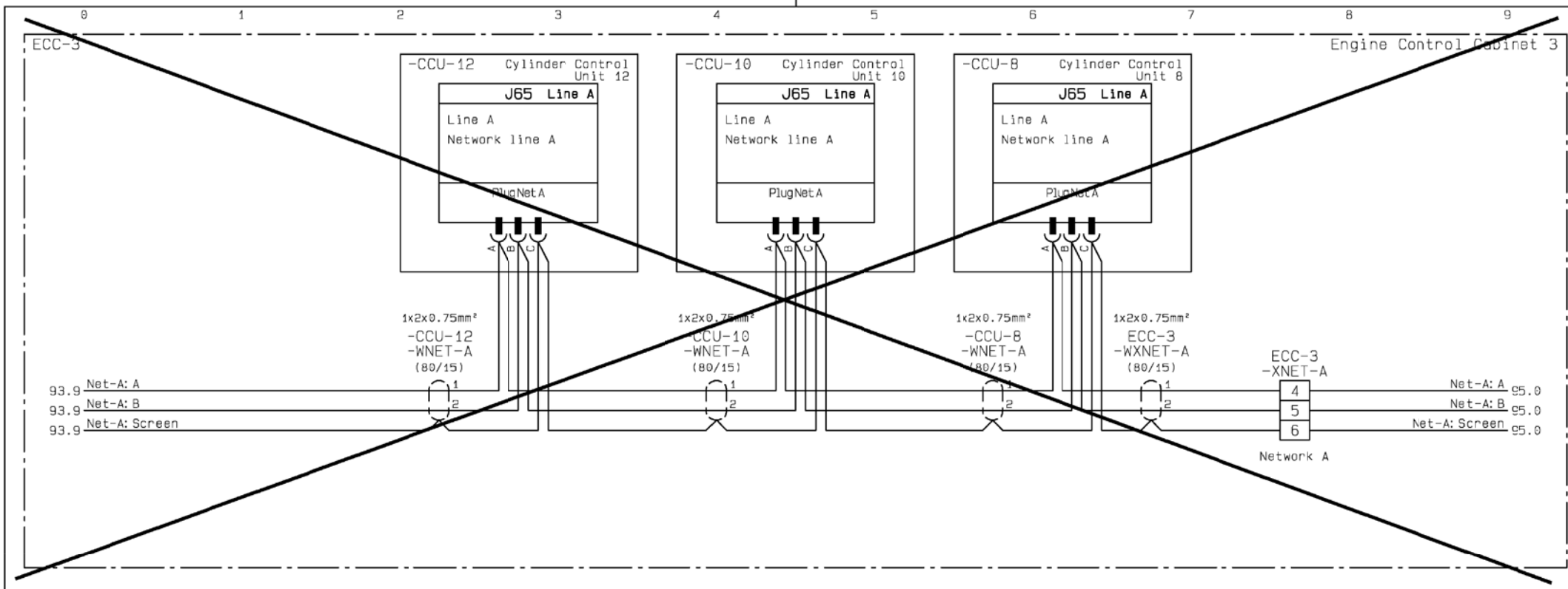
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Network A - CCU-12, CCU-10, CCU-8

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		94 (225)

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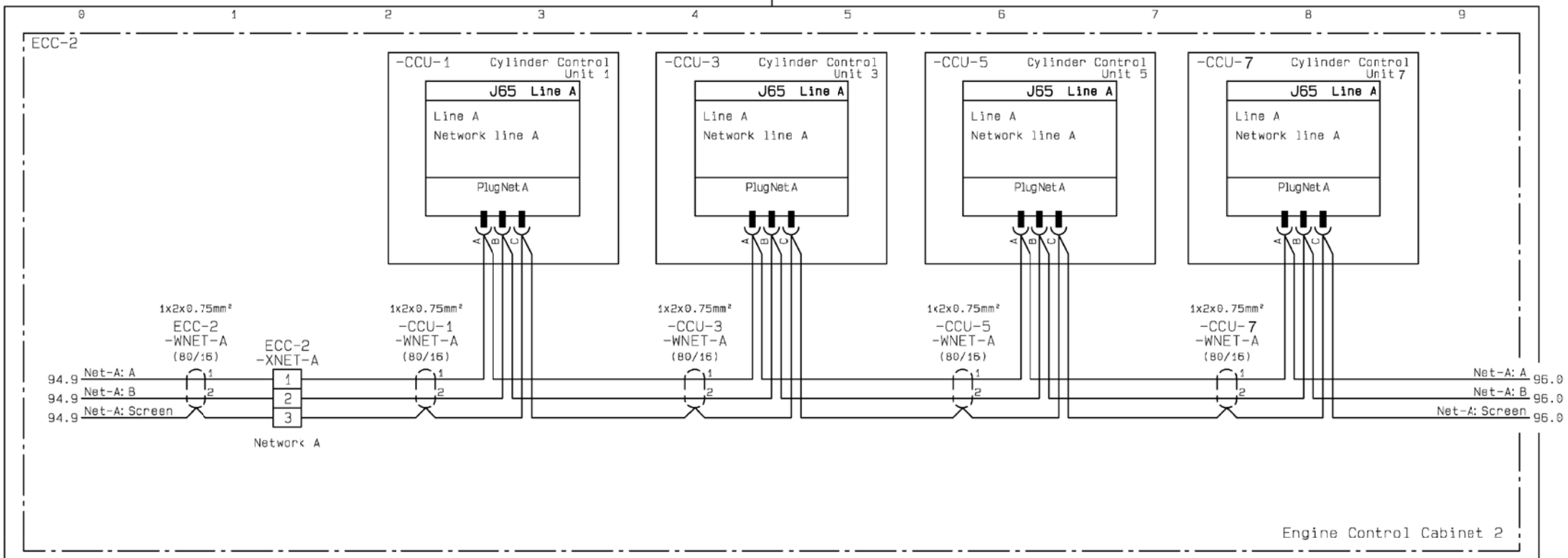
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-2, Network A - CCU-1, CCU-3, CCU-5

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 95 (225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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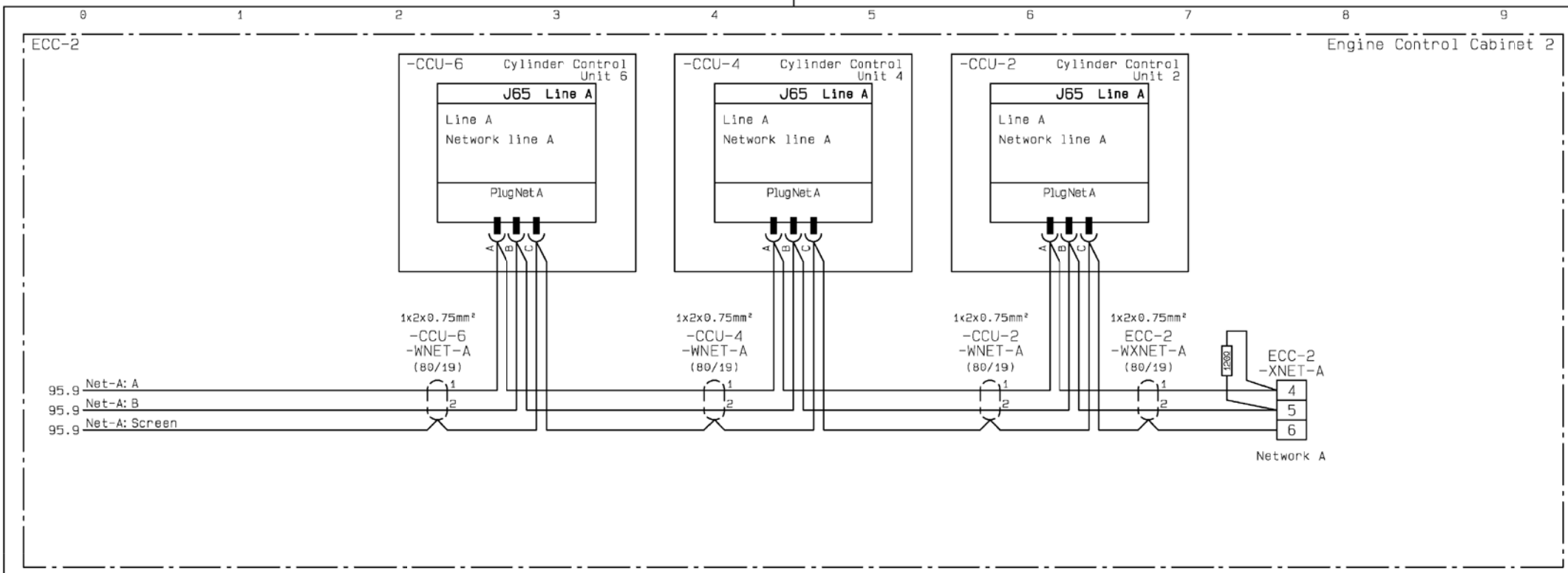
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-2, Network A - CCU-6, CCU-4, CCU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		96 (225)

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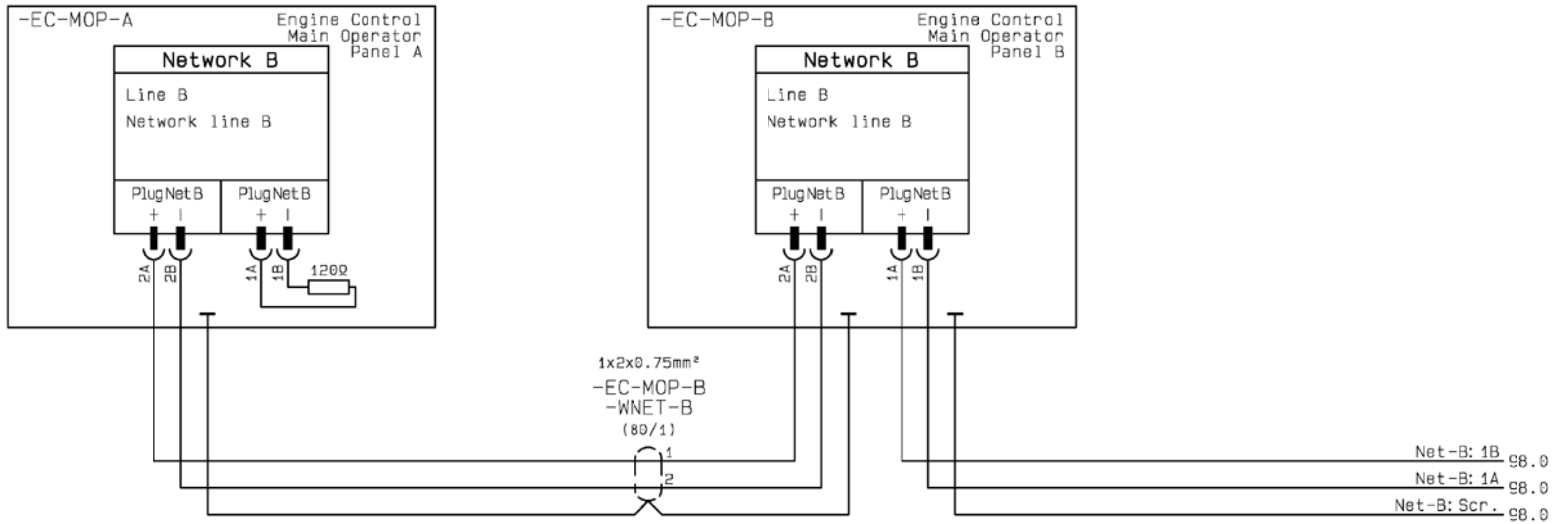
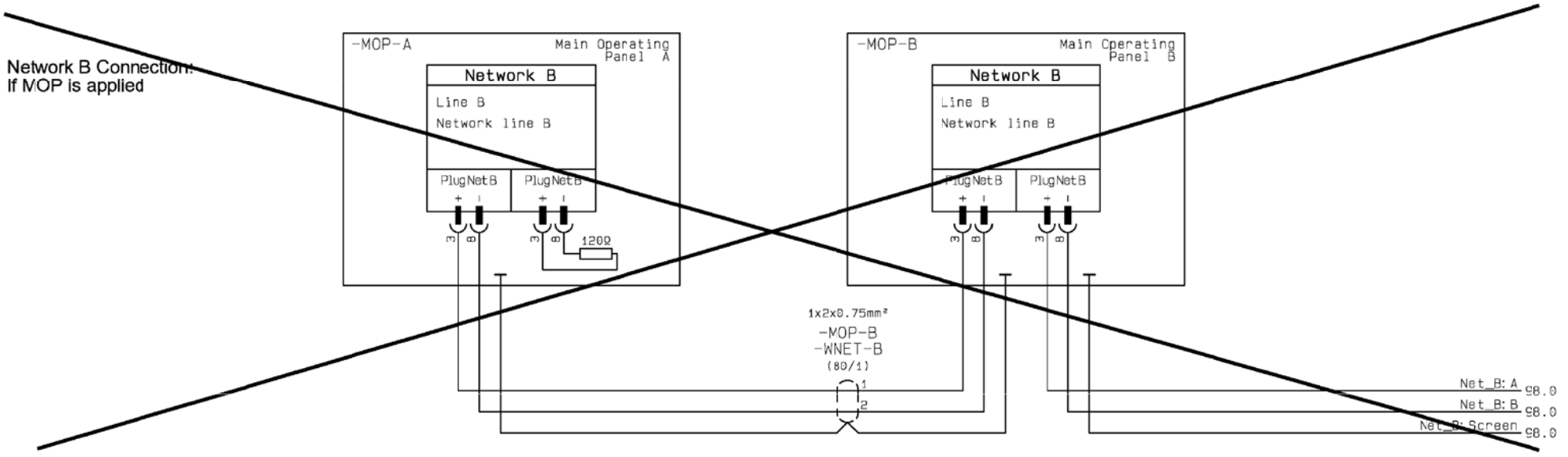
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Network B Connection:
If EC-MOP is applied



Network B Connection:
If MOP is applied



ME ECS, Network B - EC-MOP-A, EC-MOP-B or MOP-B, MOP-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		97 (225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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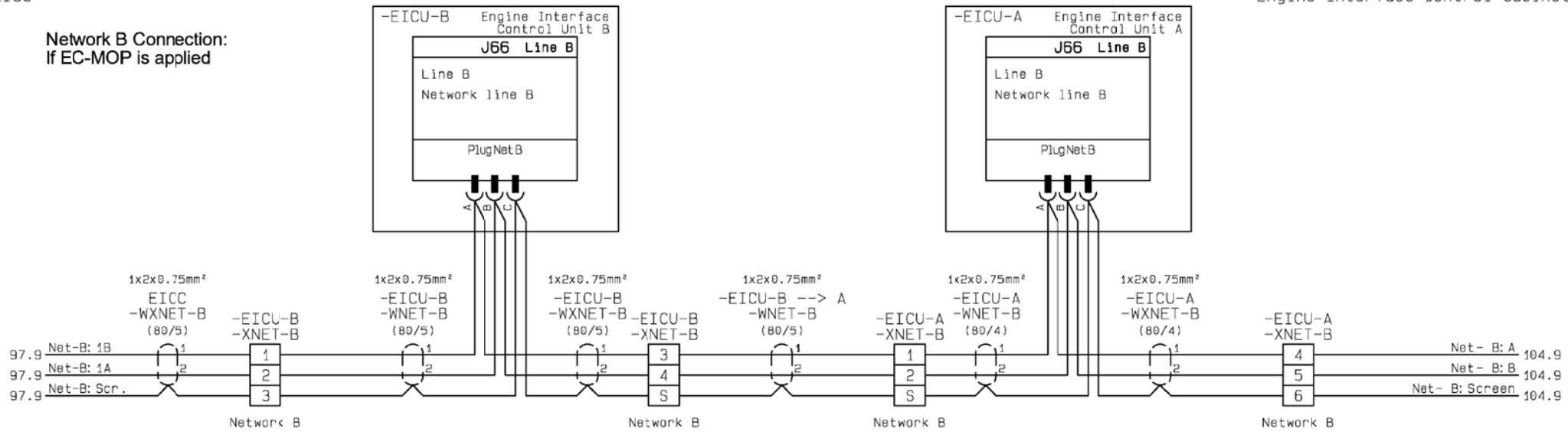
CAD Drawing - do not correct by hand - PCS Drawing

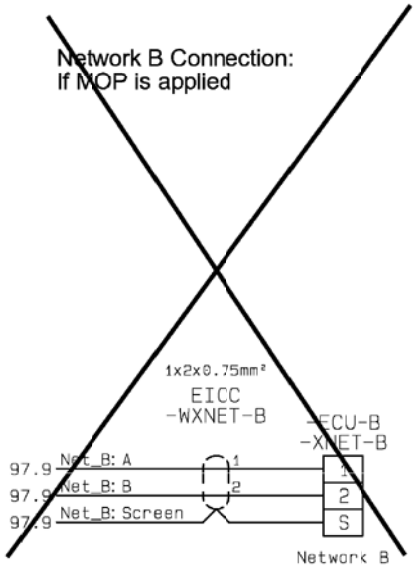
EICC

Engine Interface Control Cabinet

Network B Connection:
If EC-MOP is applied



Network B Connection:
If MOP is applied



ME ECS EICC, Network B - EICU-B, EICU-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		98 (225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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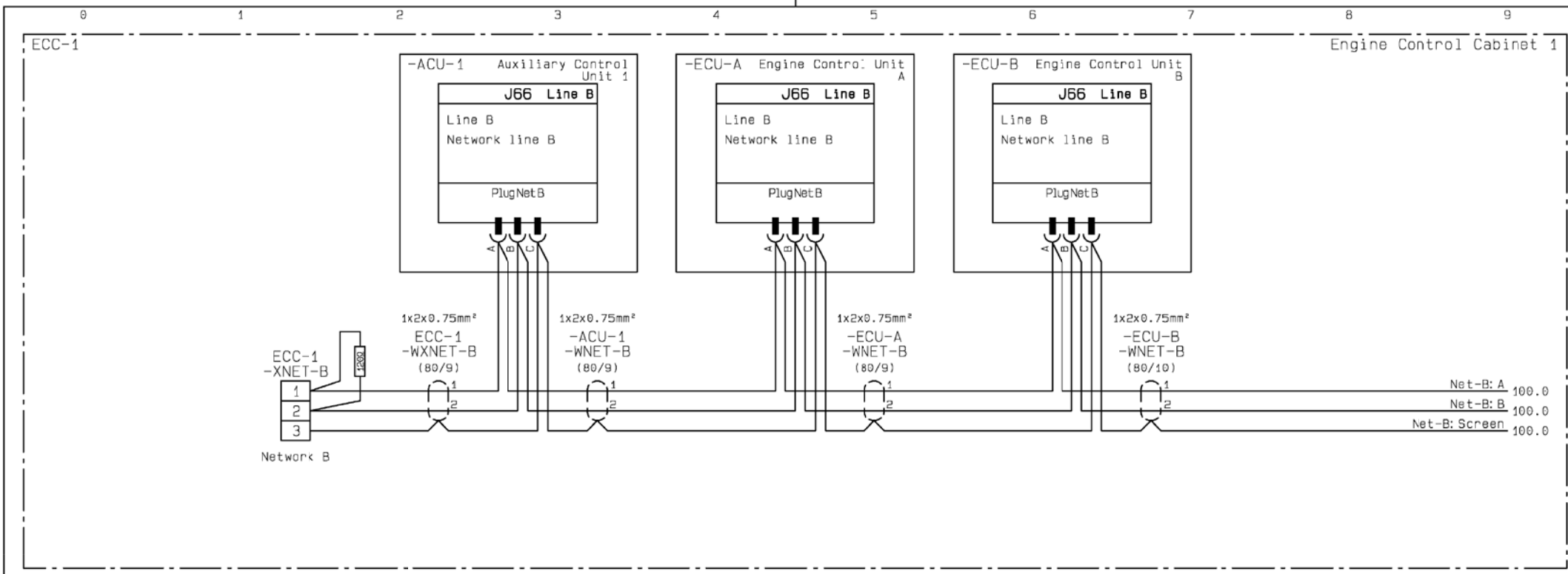
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-2, Network B - ACU-1, ECU-A, ECU-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		99 (225)

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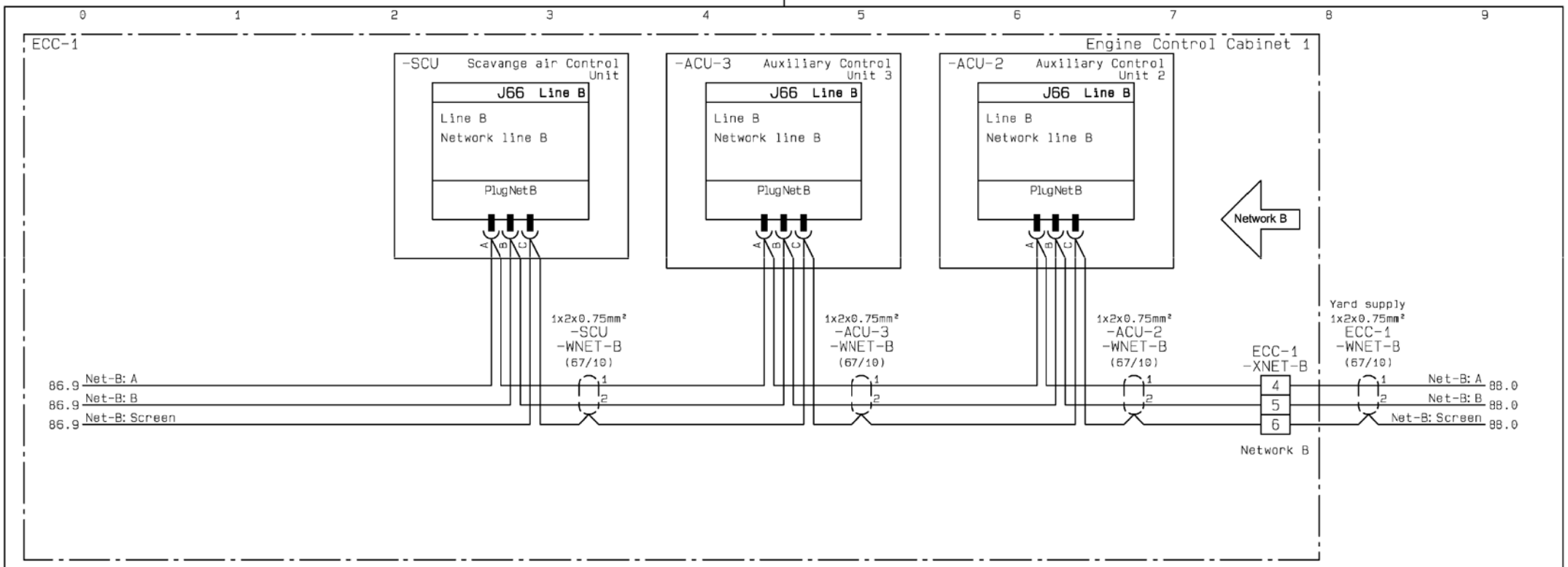
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Network B - SCU, ACU-2, ACU-3

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	ME ECS 5-12 CYL		100(225)

Info. No.:	Item Name:	Item Id.:
7B4200	~~ENGINE CONTROL~~	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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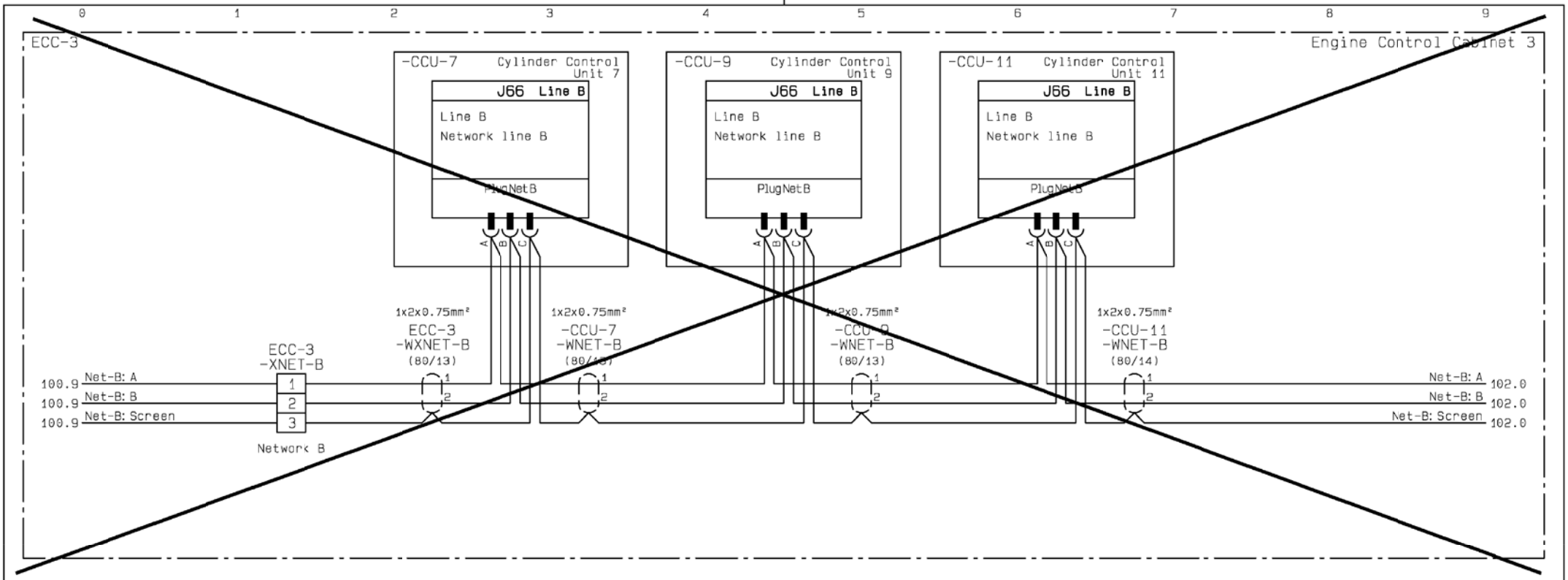
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Network B - CCU-7, CCU-9, CCU-11	Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added		006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 101(225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL				Final User Ident. No.: 4H-12760	

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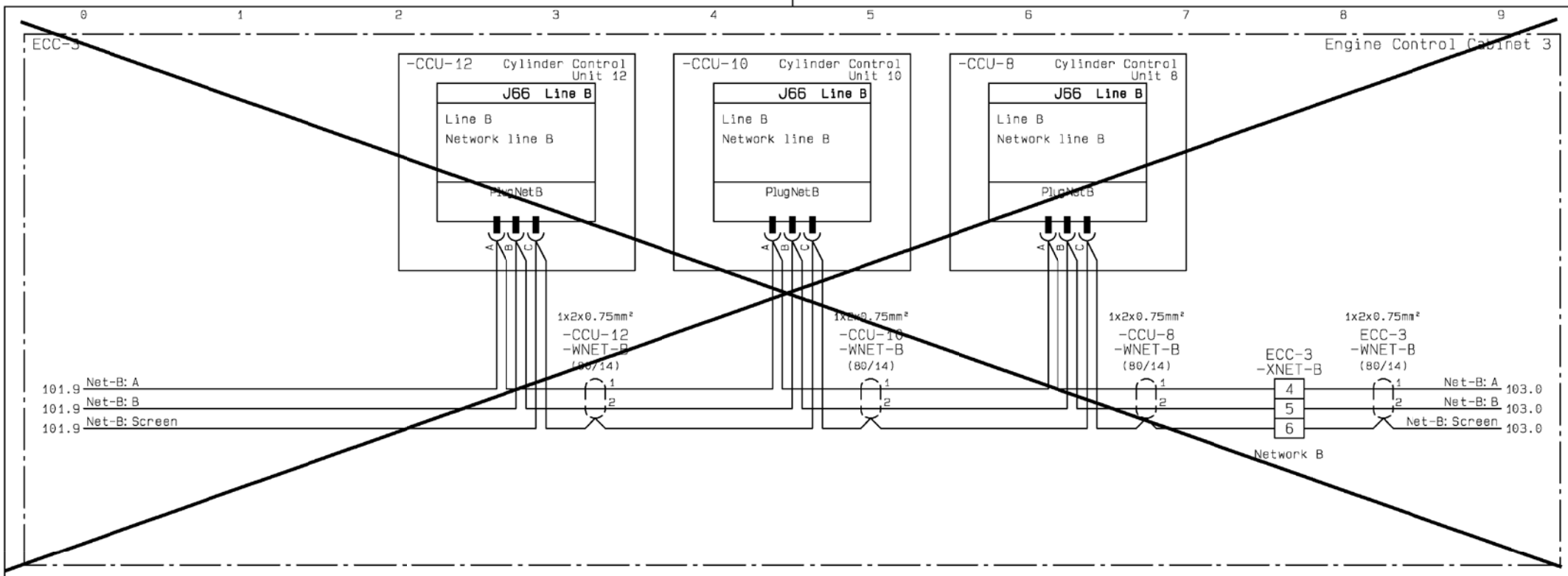
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Network B - CCU-12, CCU-10, CCU-8

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		102(225)

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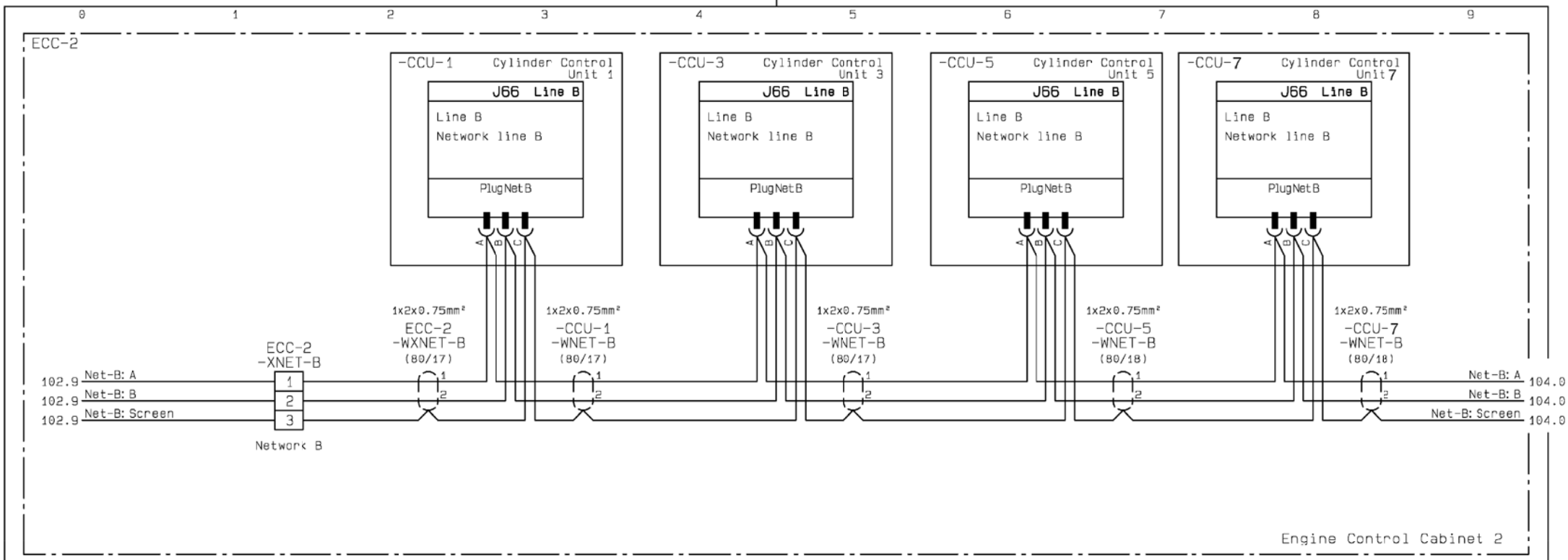
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-2, Network B - CCU-1, CCU-3, CCU-5

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 103(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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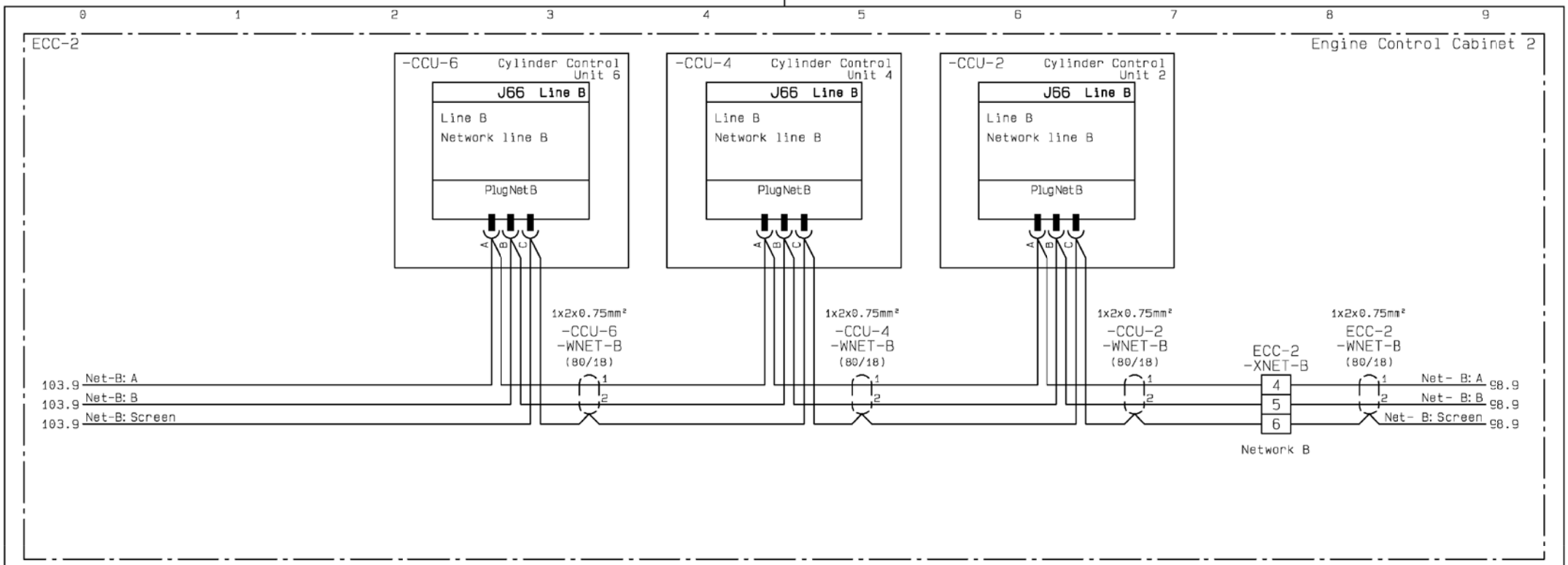
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-2, Network B - CCU-6, CCU-4, CCU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		104(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

TACHO

TACHO

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		105(225)

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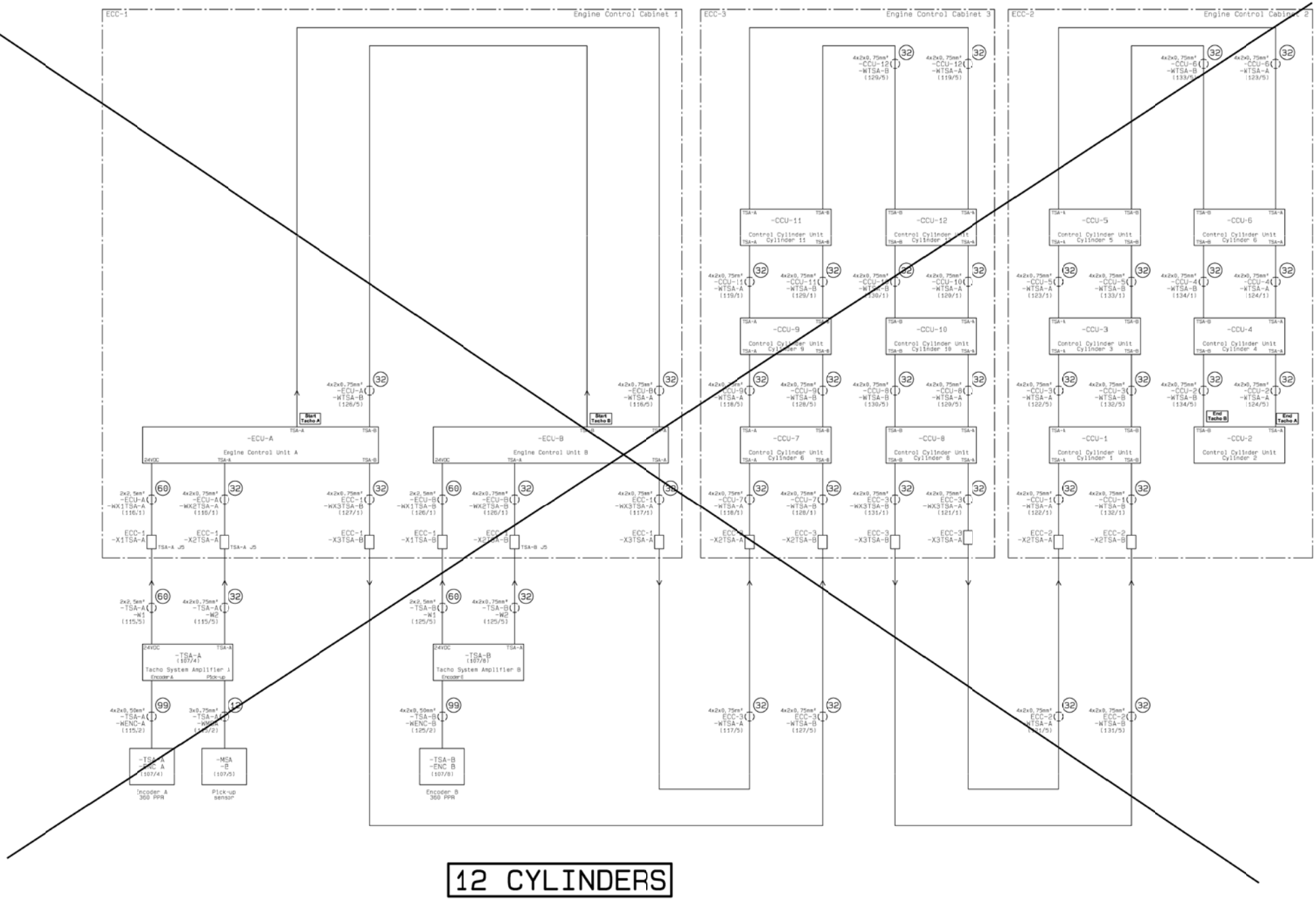
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



12 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 12 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	ME ECS 5-12 CYL		106(225)
Info. No.:		Item Name:		Item Id.:
7B4200		ENGINE CONTROL		5260077-4
Final User Info. No.:		Final User Description:		Final User Icent. No.:
		ME ECS 7 CYL		4H-12760

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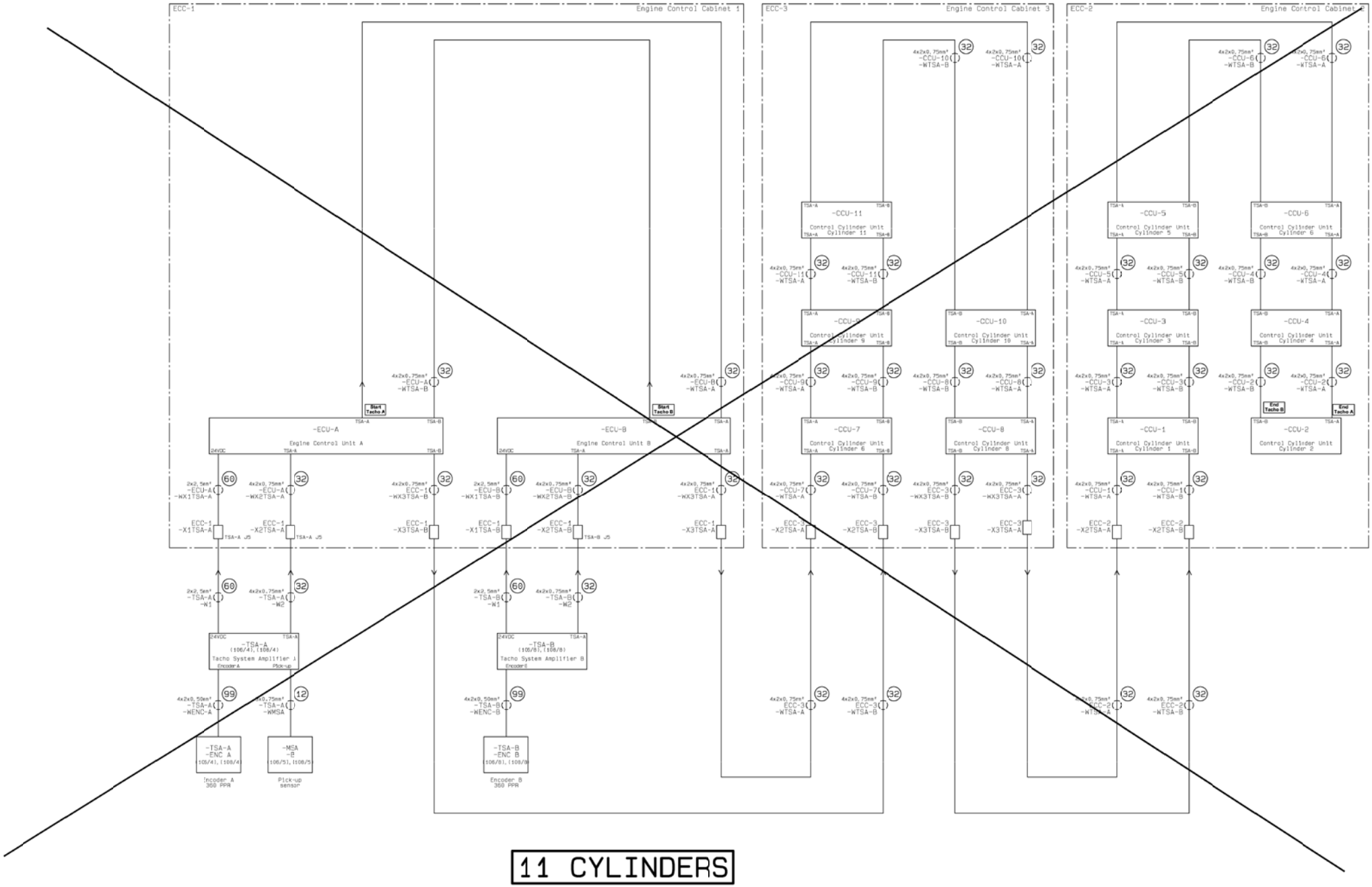
CAD Drawing - do not correct by hand - PCS Drawing



11 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 11 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	ME ECS 5-12 CYL		107(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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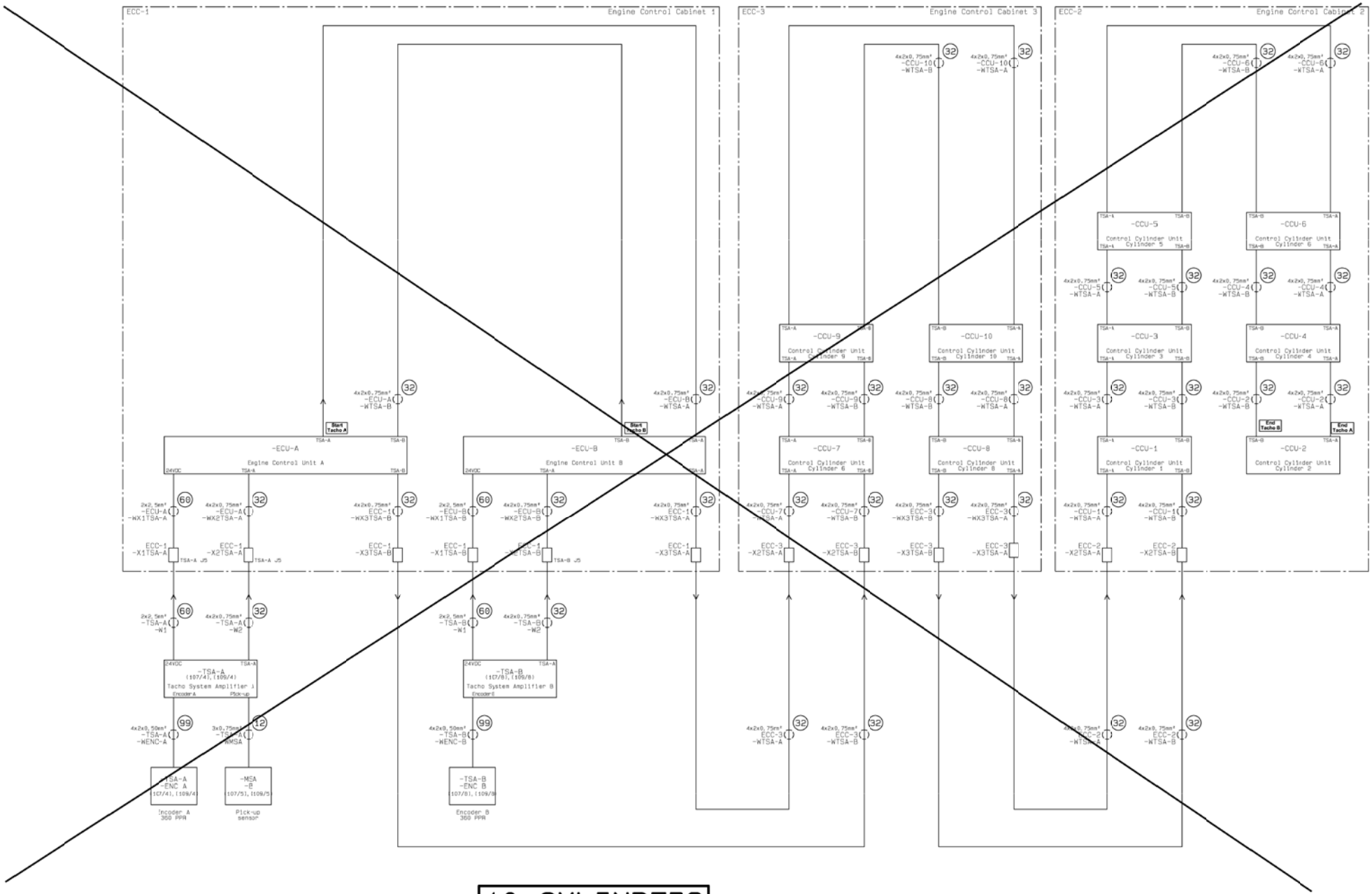
CAD Drawing - do not correct by hand - PCS Drawing



10 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 10 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		108(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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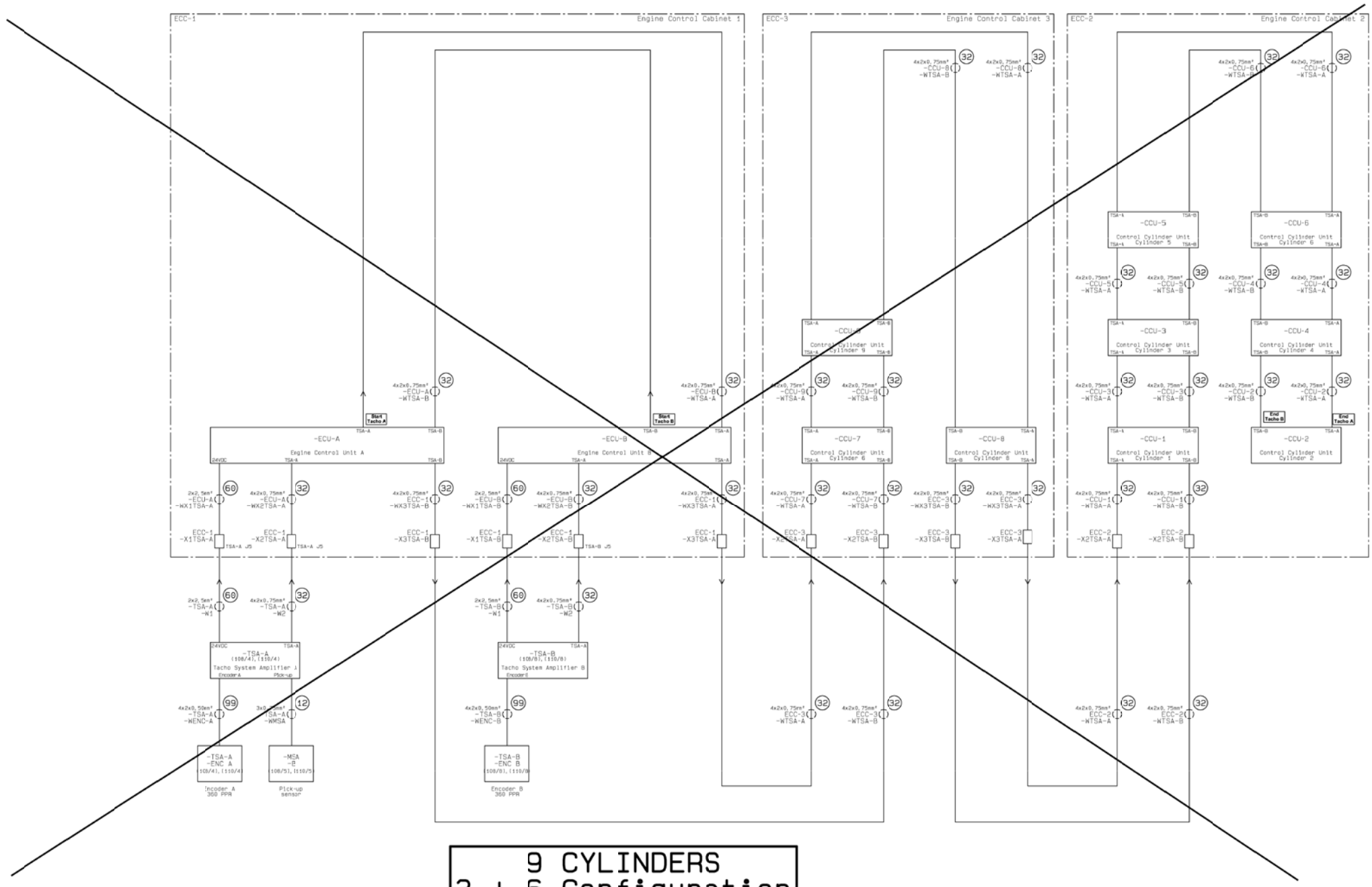
CAD Drawing - do not correct by hand - PCS Drawing



9 CYLINDERS
3 + 6 Configuration

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 9 Cylinder (3 + 6 Configuration)

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	00633104	

Scale: Size: A1 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 109(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Icont No.: 4H-12760

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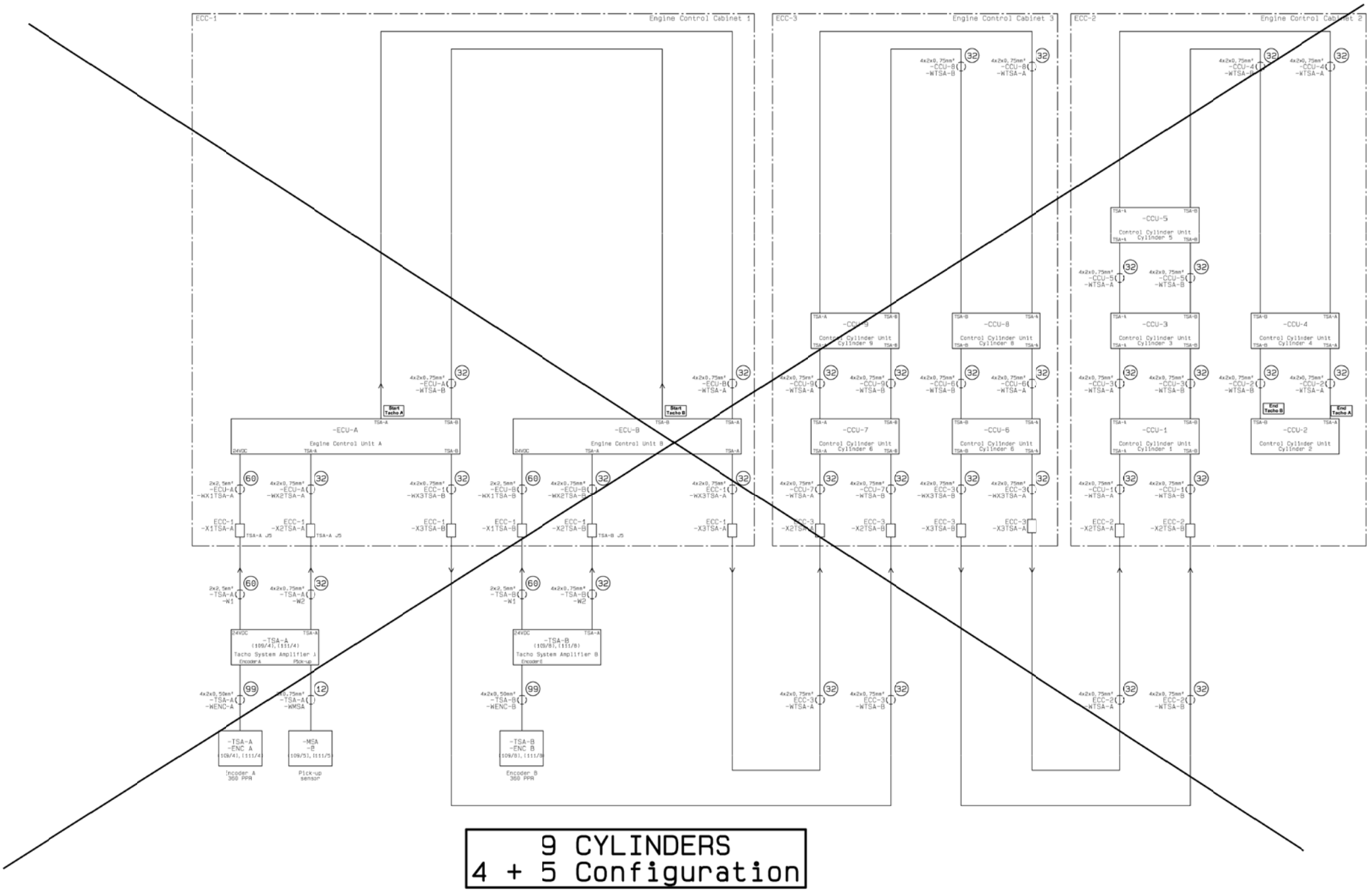
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Tacho A & Tacho B - 9 Cylinder (4 + 5 Configuration)

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		110(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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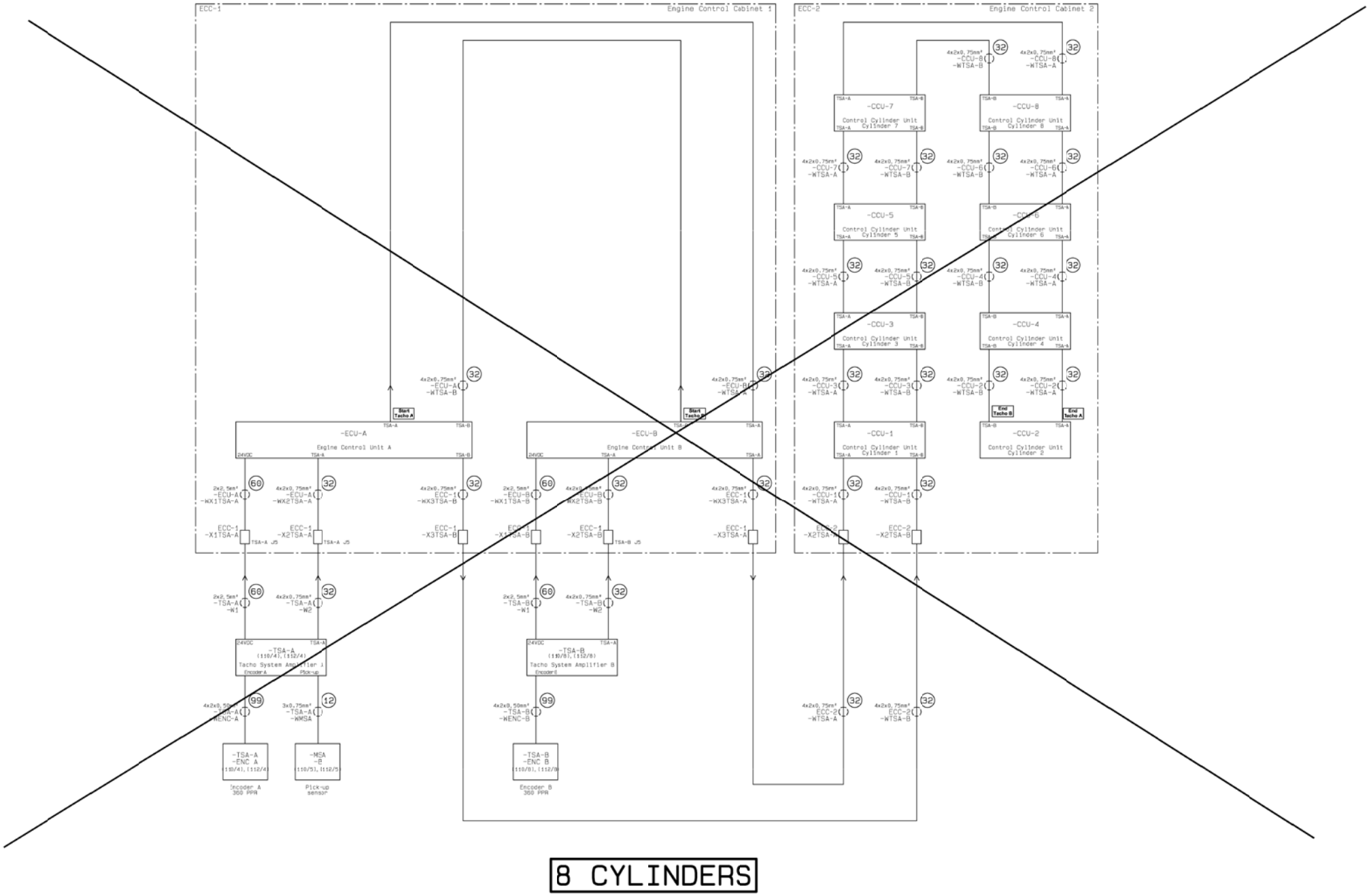
CAD Drawing - do not correct by hand - PCS Drawing



8 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 8 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		111(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4

Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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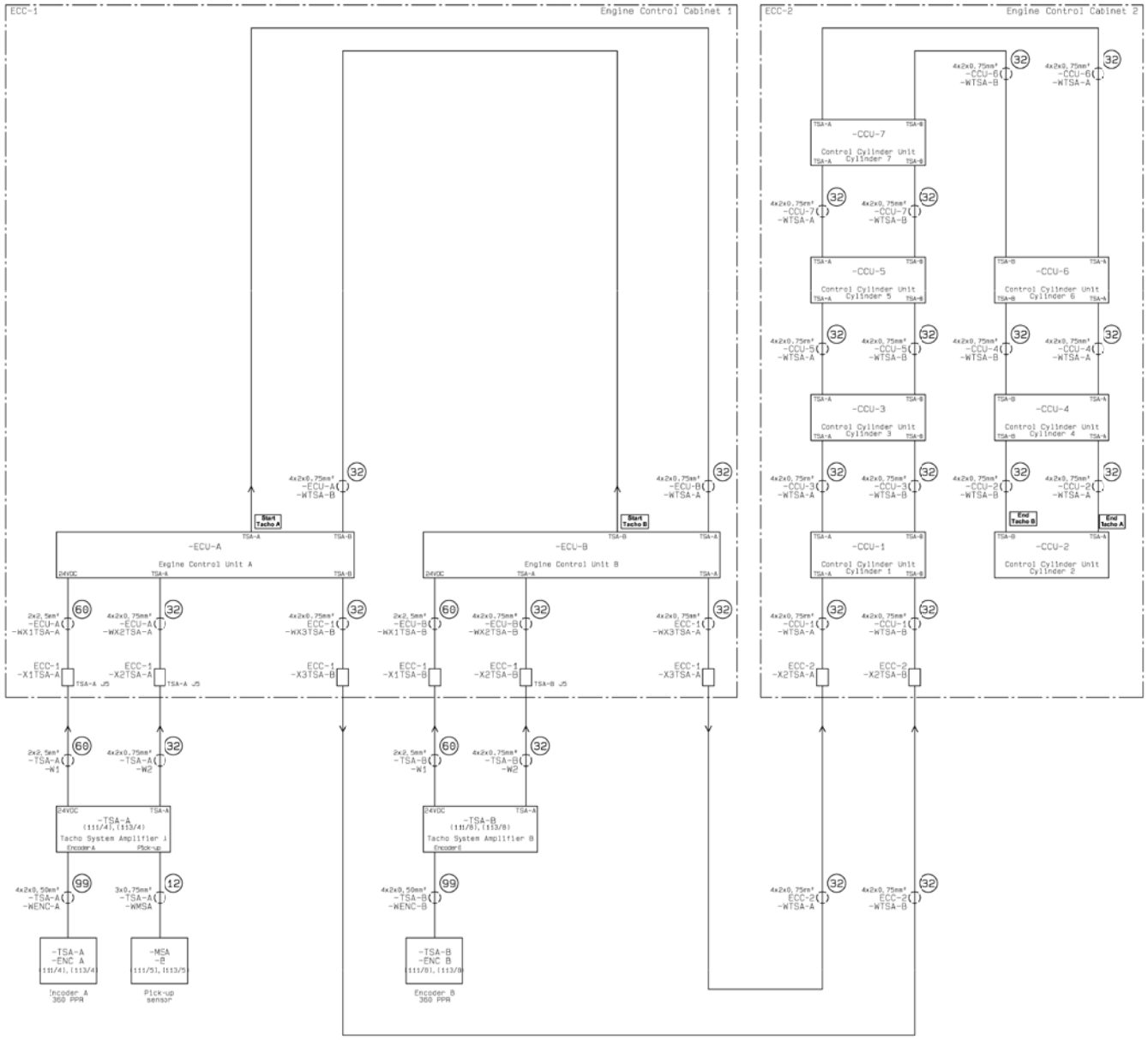
CAD Drawing - do not correct by hand - PCS Drawing



7 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 7 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		112(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Cont. No.:
	ME ECS 7 CYL	4H-12760

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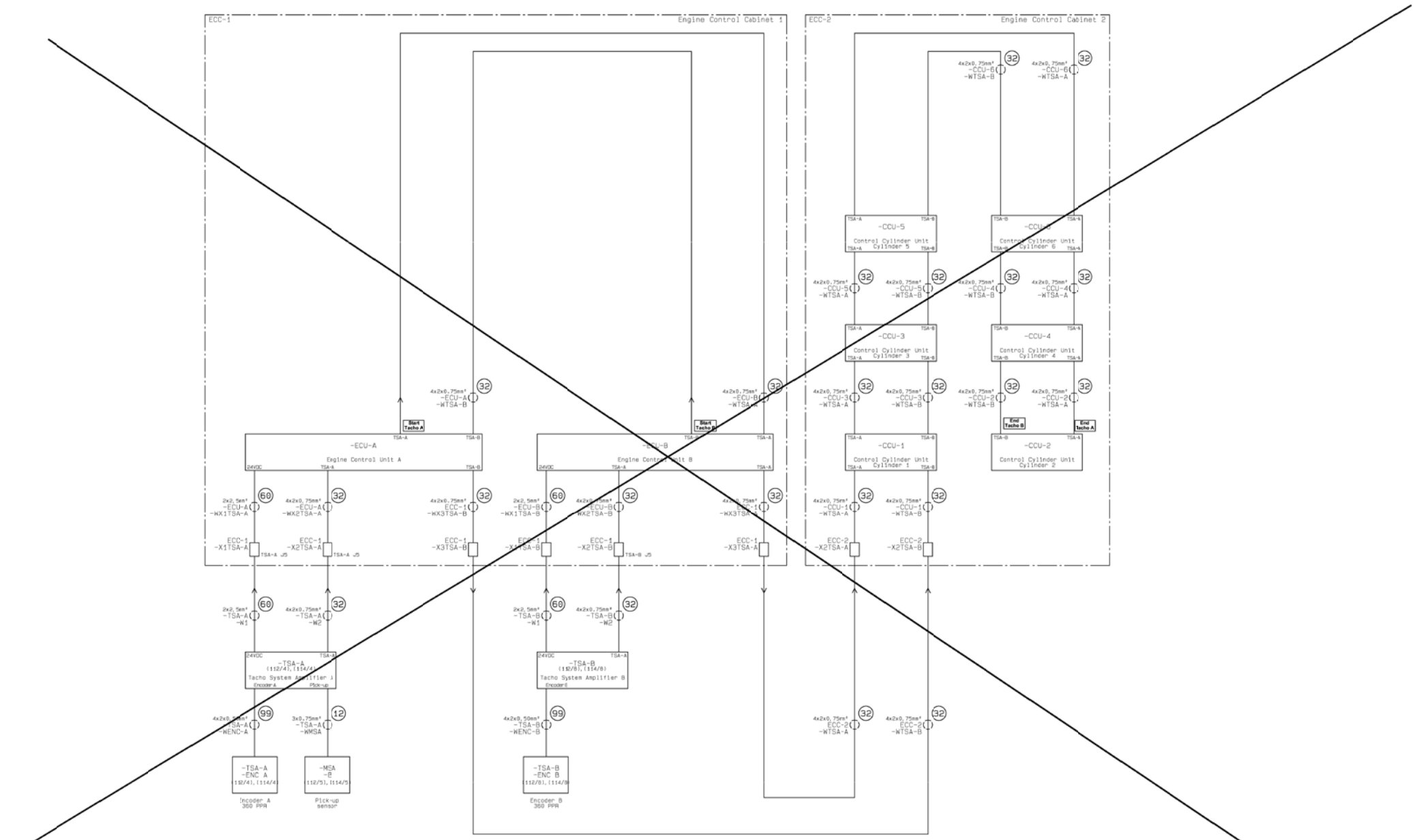
CAD Drawing - do not correct by hand - PCS Drawing



6 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 6 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		113(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Icont. No.:
	ME ECS 7 CYL	4H-12760

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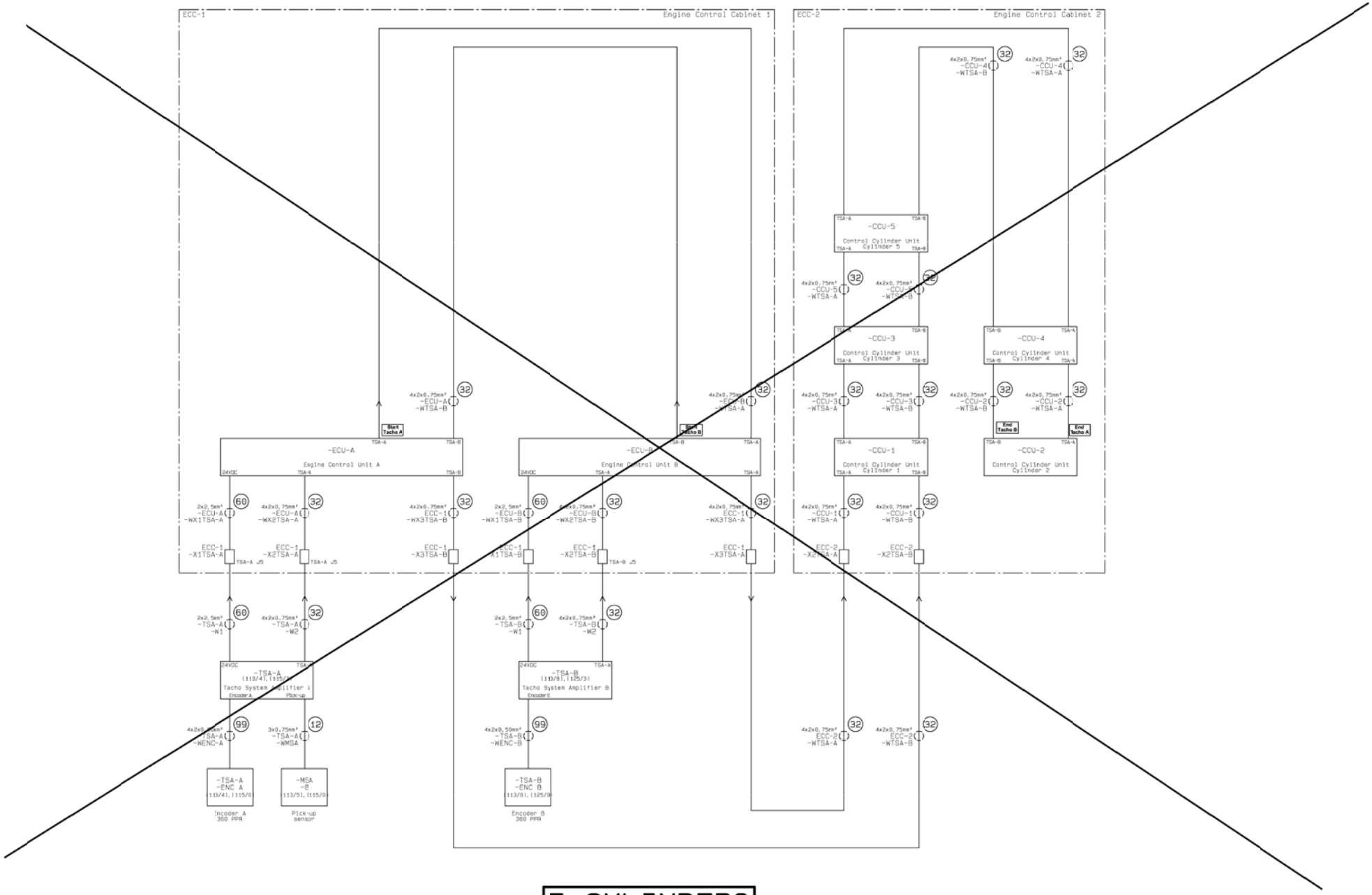
CAD Drawing - do not correct by hand - PCS Drawing



5 CYLINDERS

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 5 Cylinder

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A1	~~ME ECS 5-12 CYL~~		114(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Icont. No.:
	ME ECS 7 CYL	4H-12760

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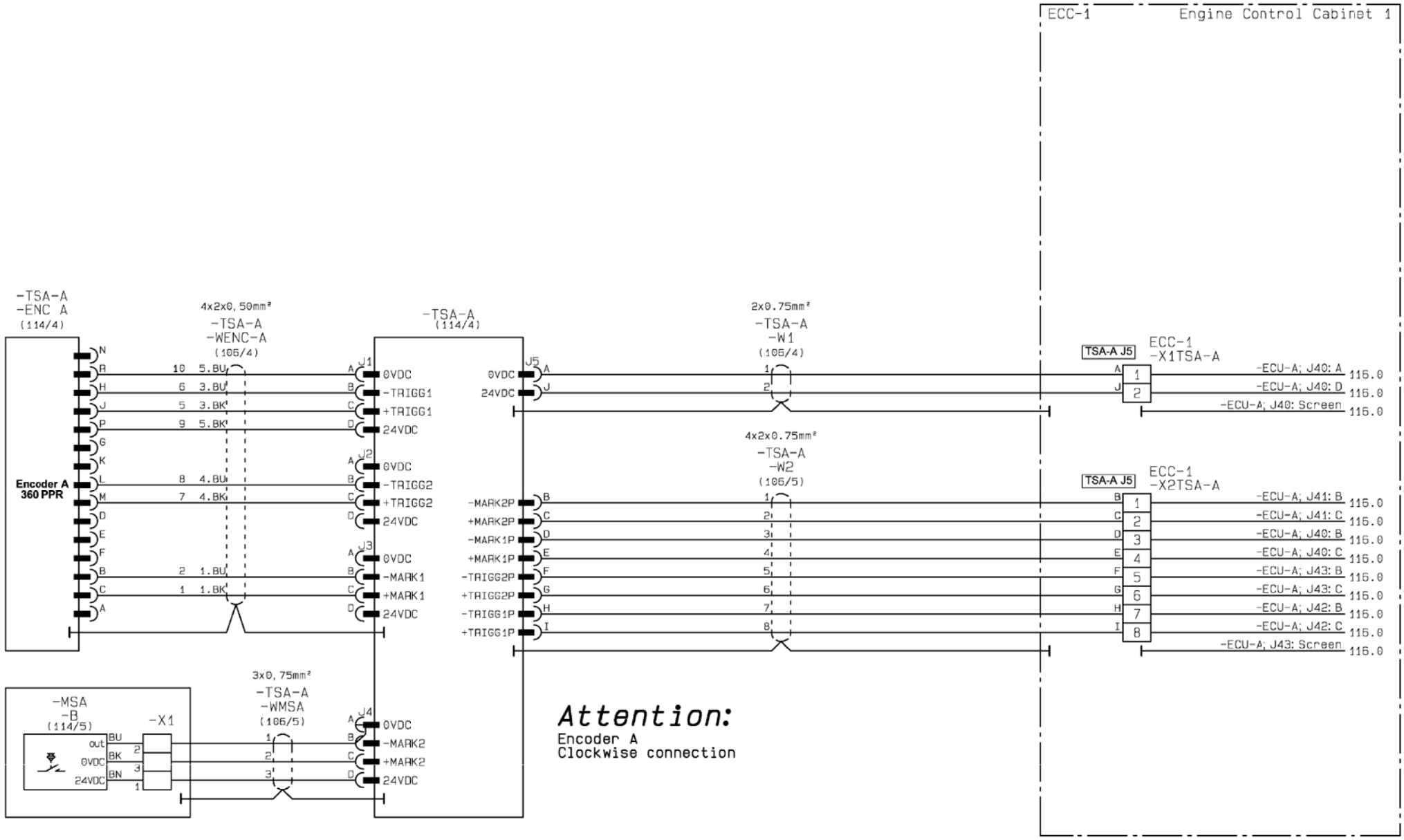
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho A Encoder Box connections

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		115(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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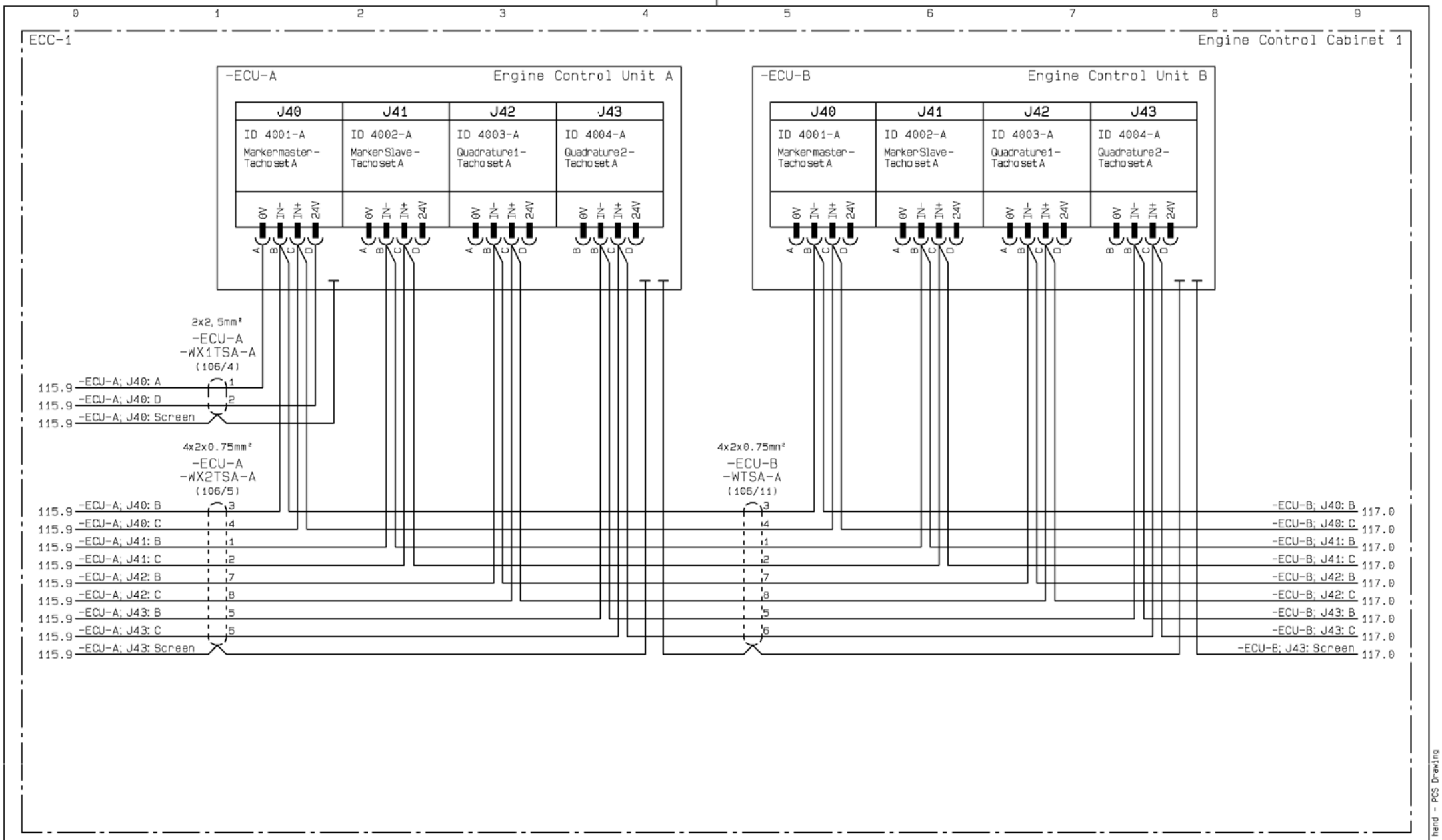
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho A - ECU-A, ECU-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 116(225)

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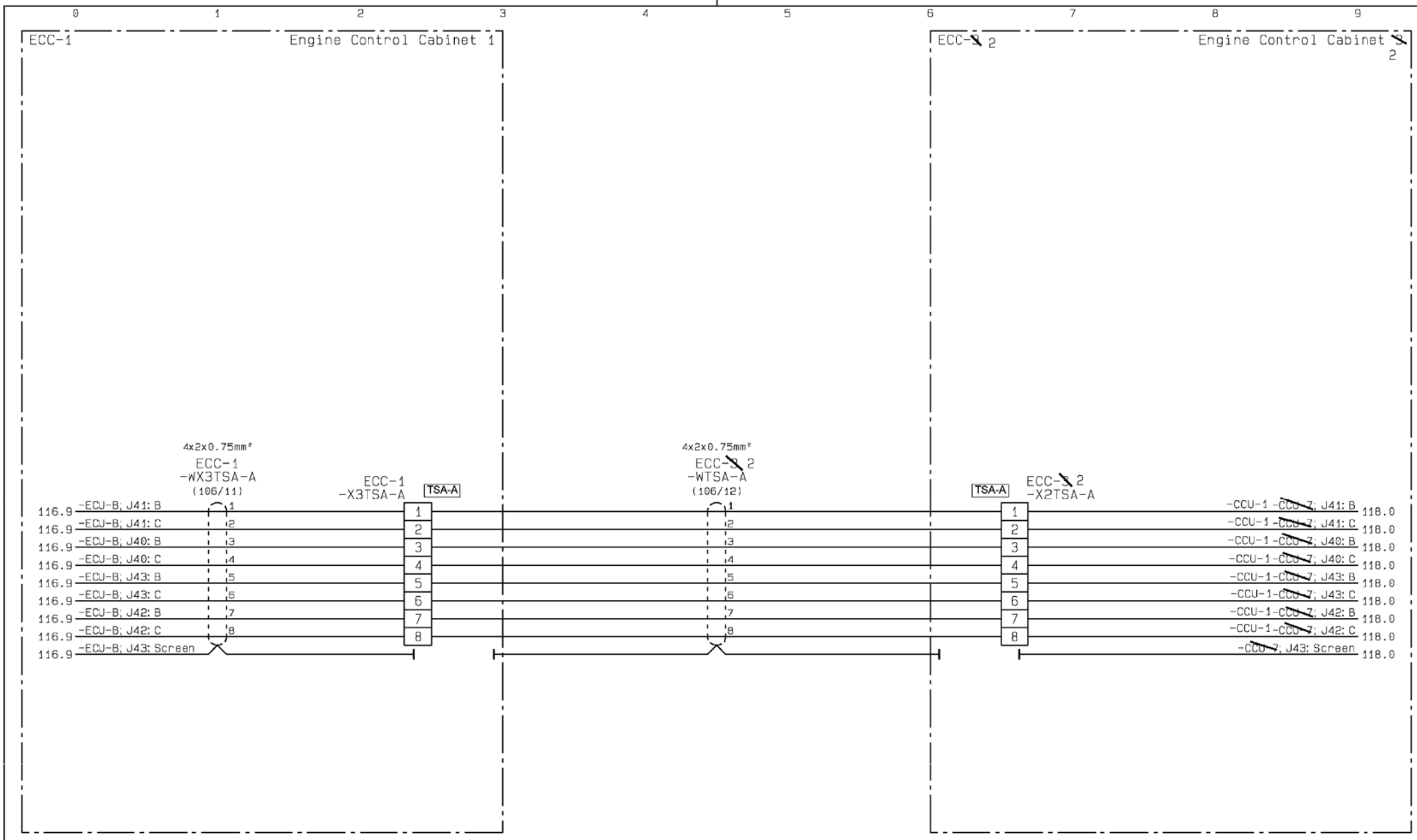
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho A - X3TSA-A & ECC3 Tacho A - X2TSA-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		117(225)

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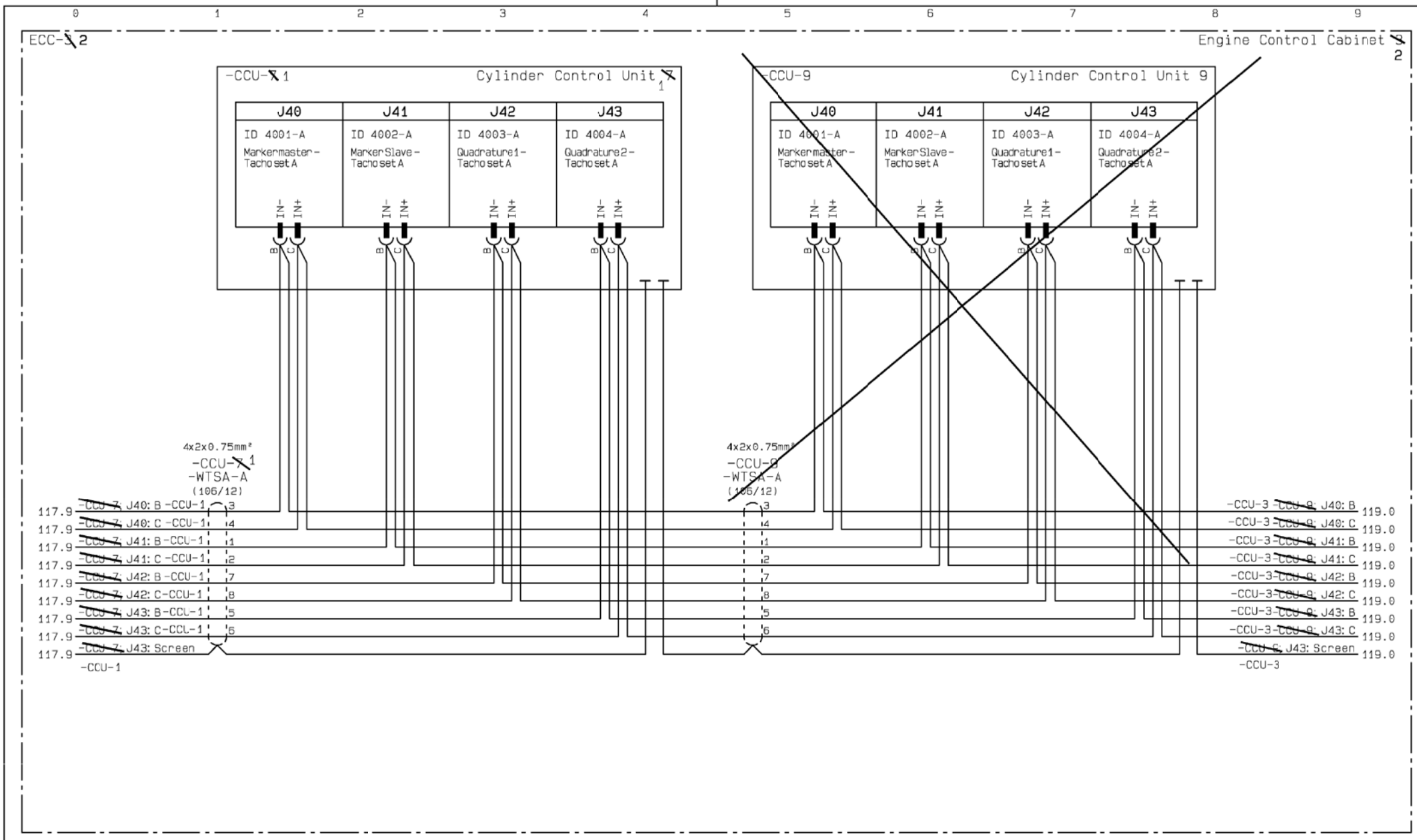
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



~~ME ECS ECC 3, Tacho A -CCU-7, CCU-9~~

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		118(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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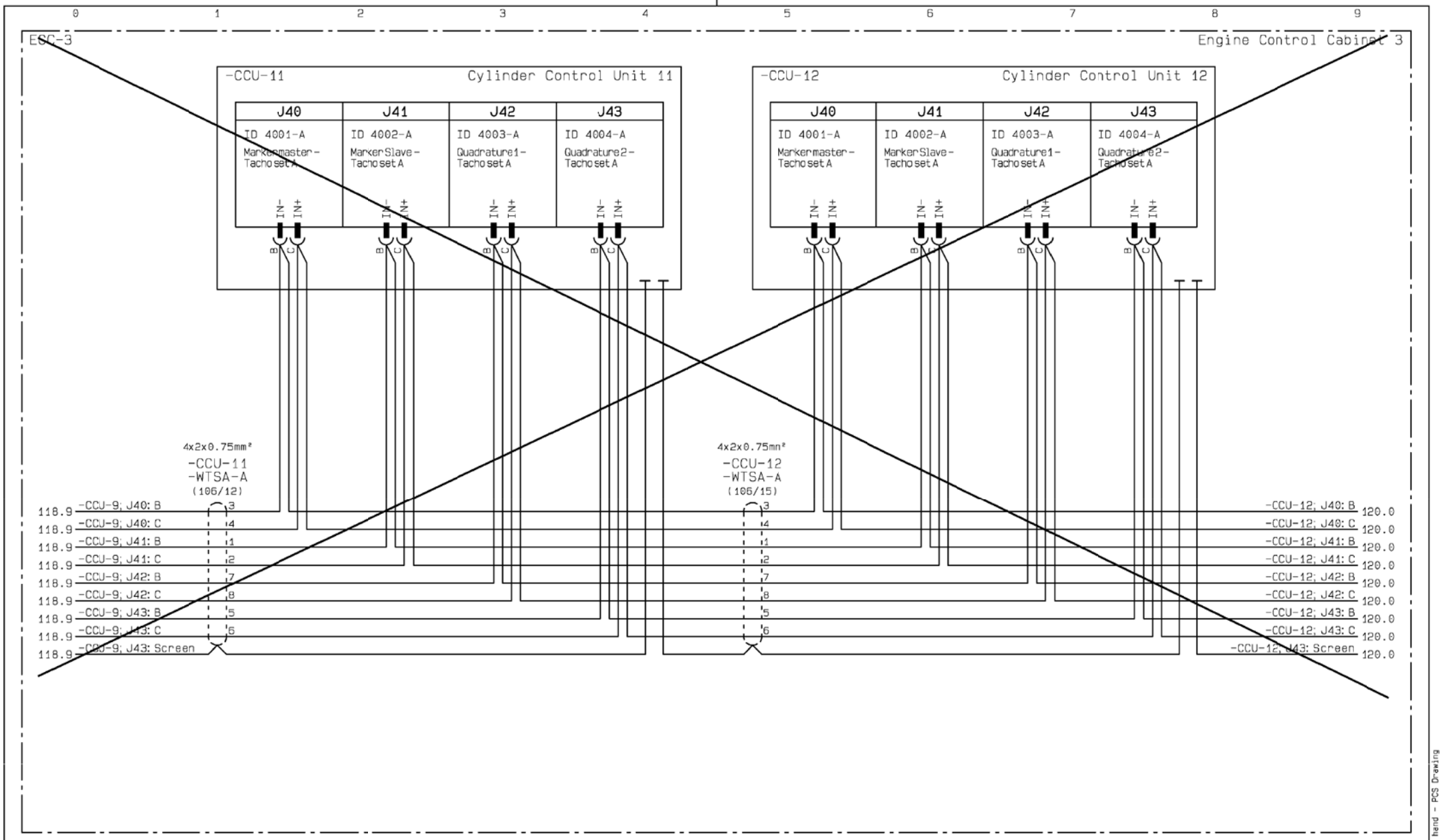
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho A - CCU-11, CCU-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: Size: **A3**
Product Type: ~~ME ECS 5-12 CYL~~
Projection:
Page No.: 119(225)

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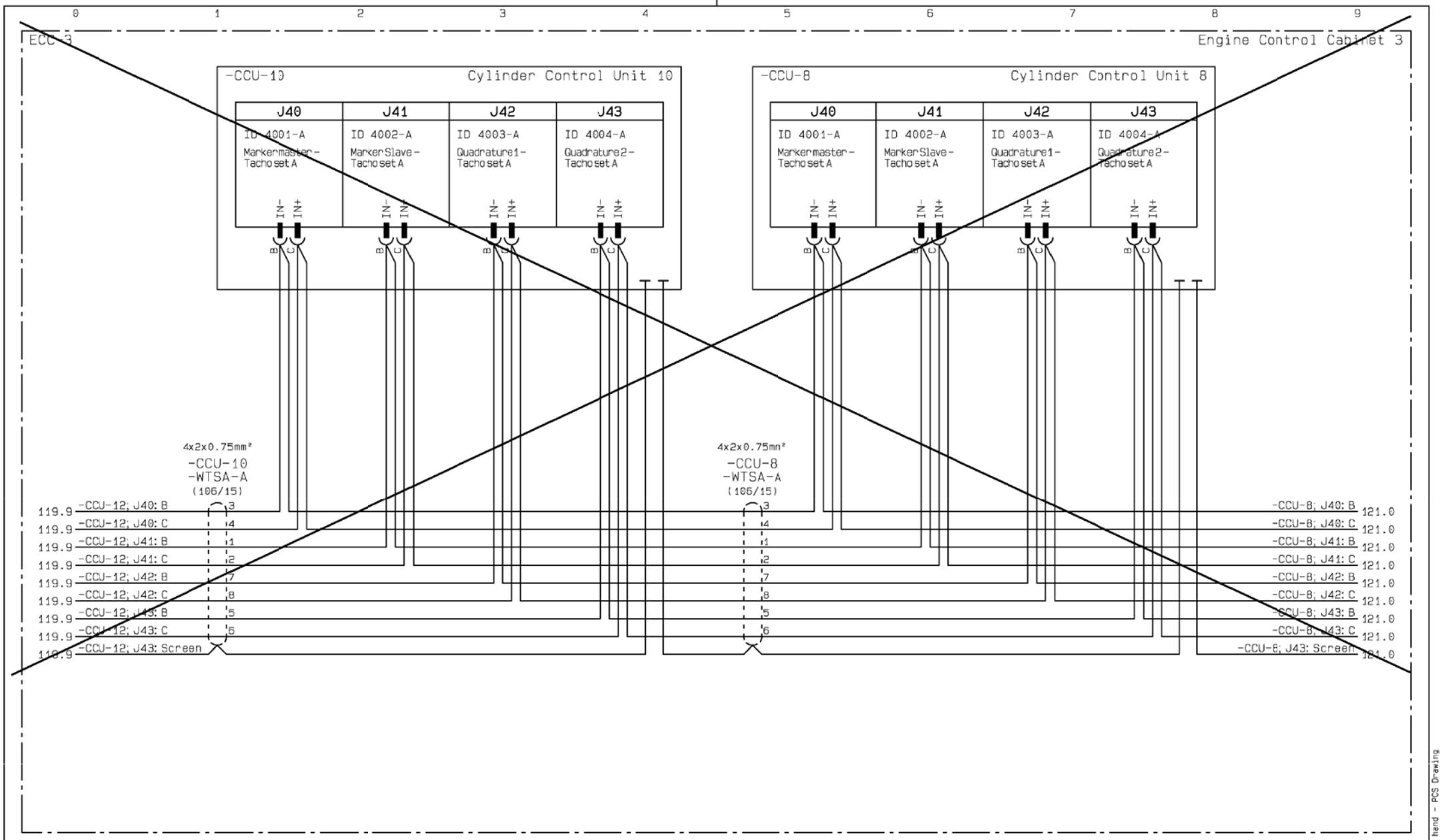
Info. No.: 7B4200
Item Name: ENGINE CONTROL
Item Id.: 5260077-4
Final User Info. No.:
Final User Description: ME ECS 7 CYL
Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho A - CCU-10, CCU-8

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		120(225)

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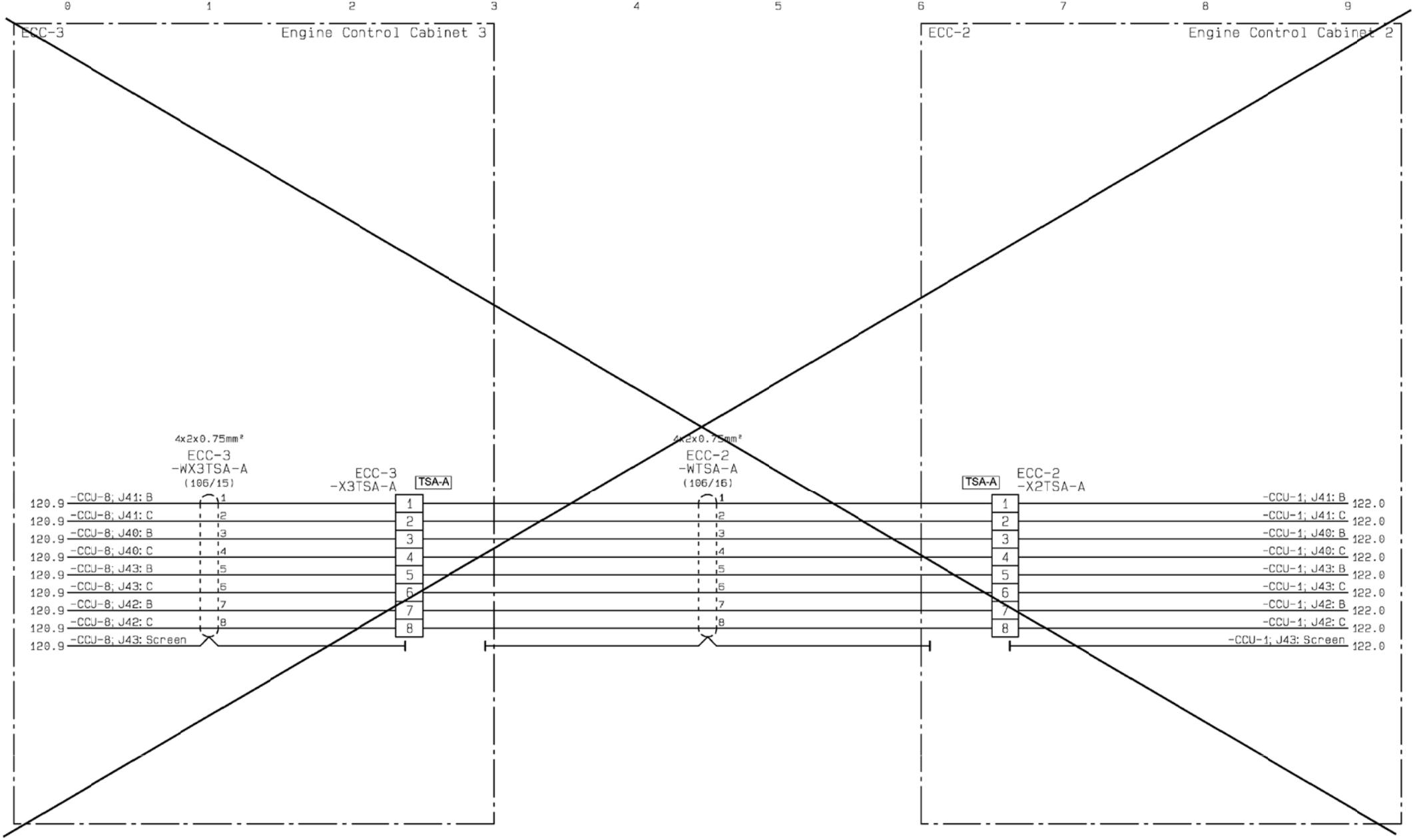
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho A - X3TSA-A & ECC2 Tacho A - X2TSA-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		121(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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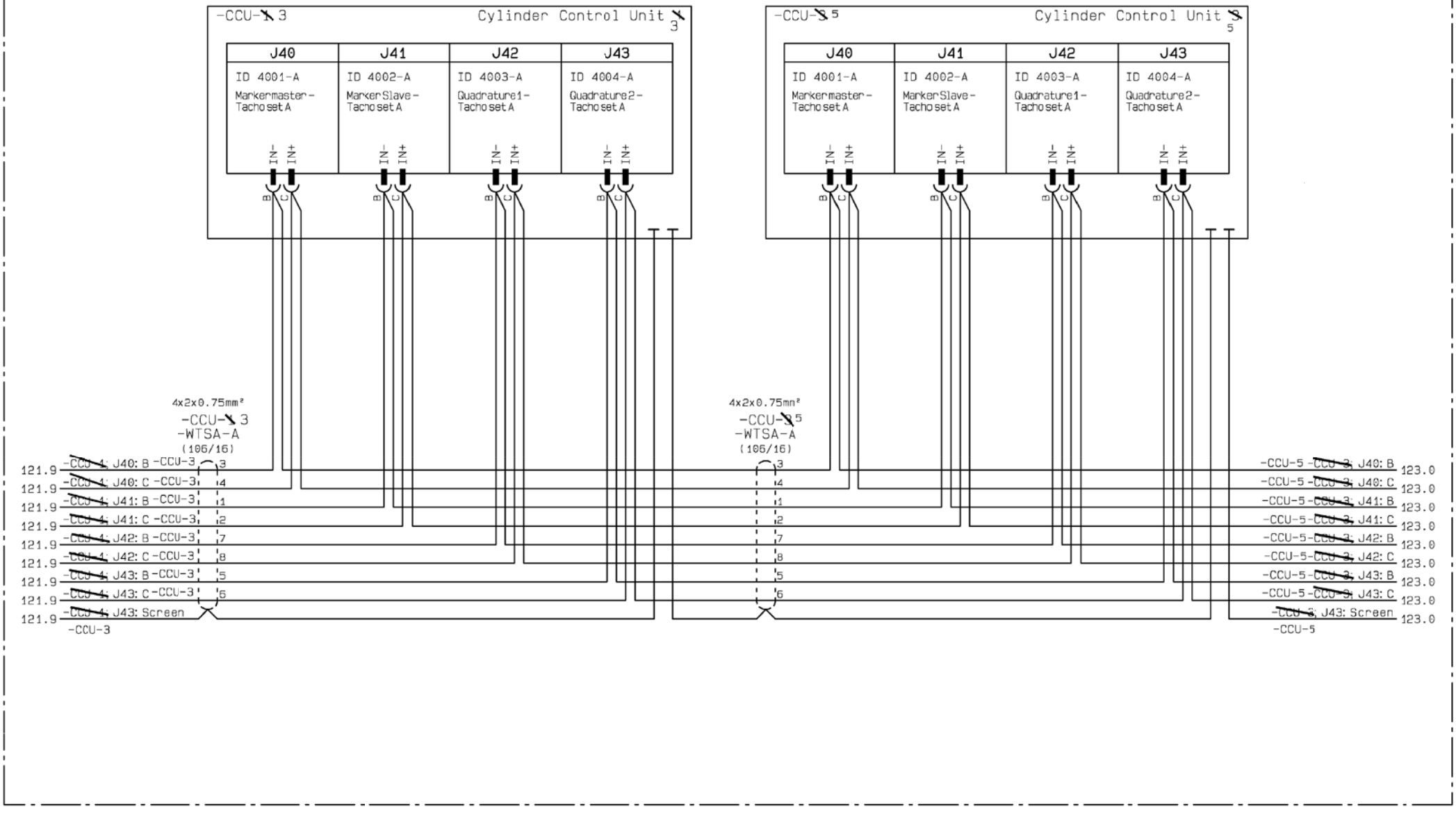
CAD Drawing - do not correct by hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho A - CCU-1, CCU-3

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		122(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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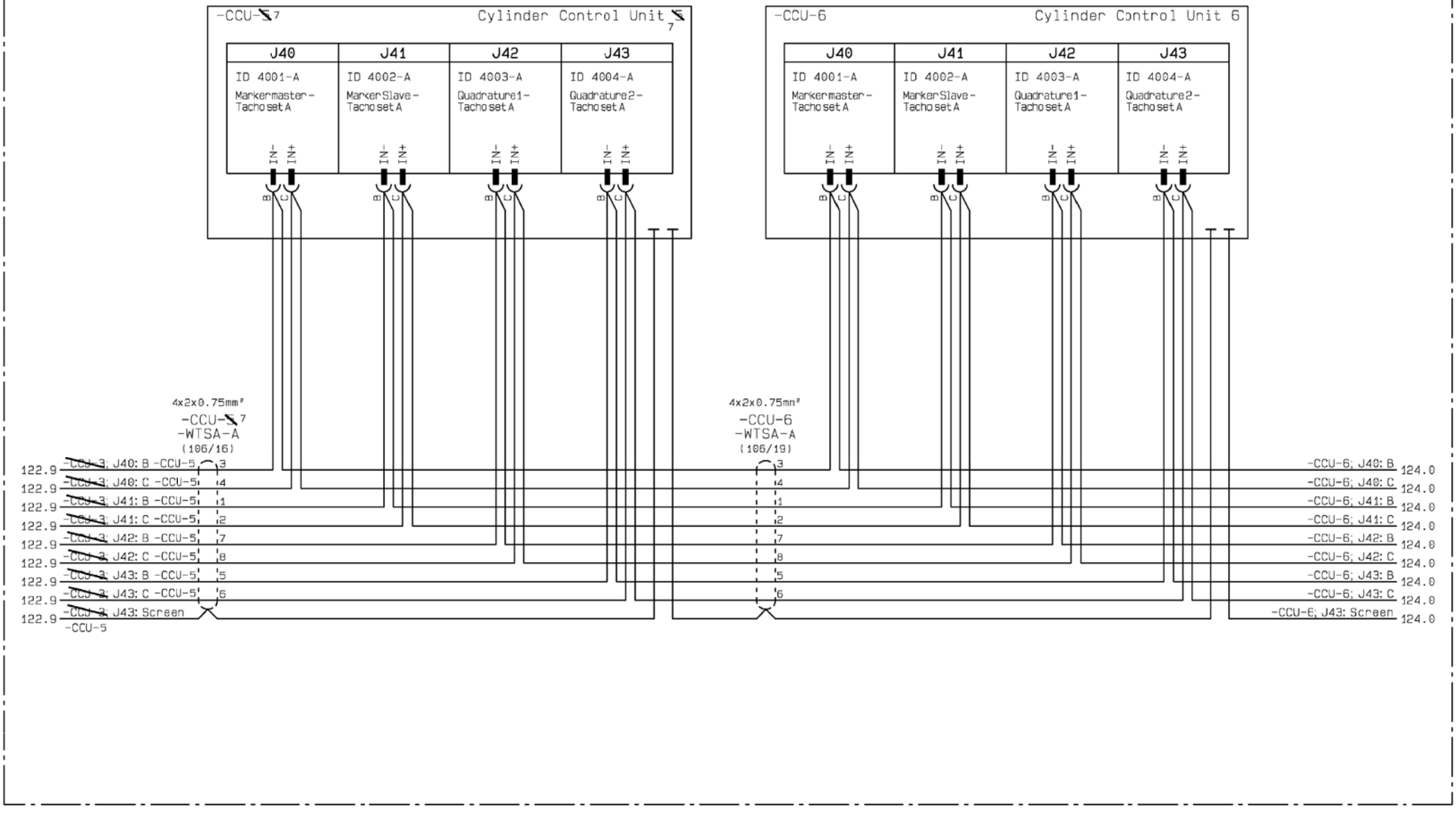
CAD Drawing - do not correct by Hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho A - CCU-5, CCU-6

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		123(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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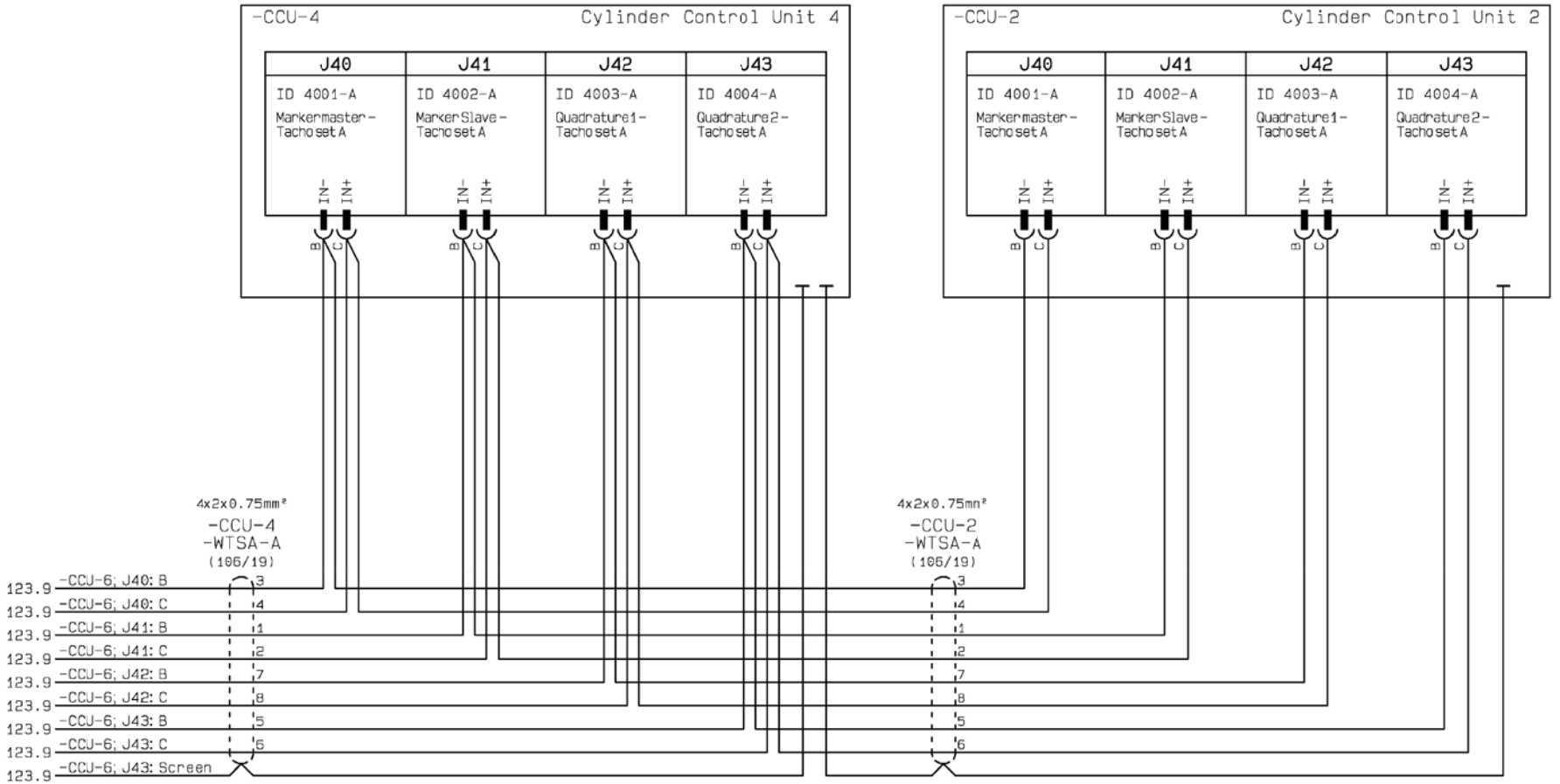
CAD Drawing - do not correct by hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho A - CCU-4, CCU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		124(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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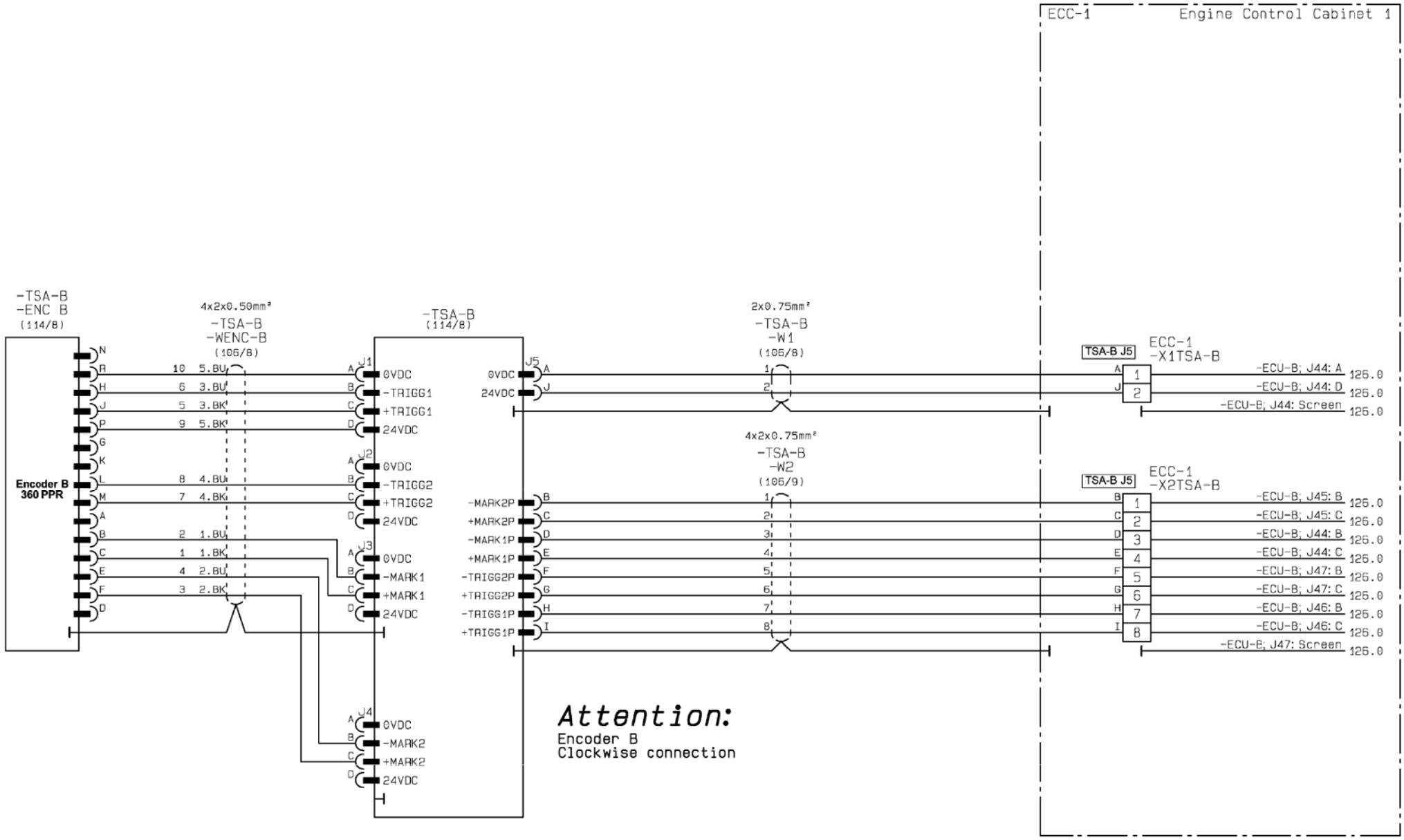
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho B Encoder Box connections

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		125(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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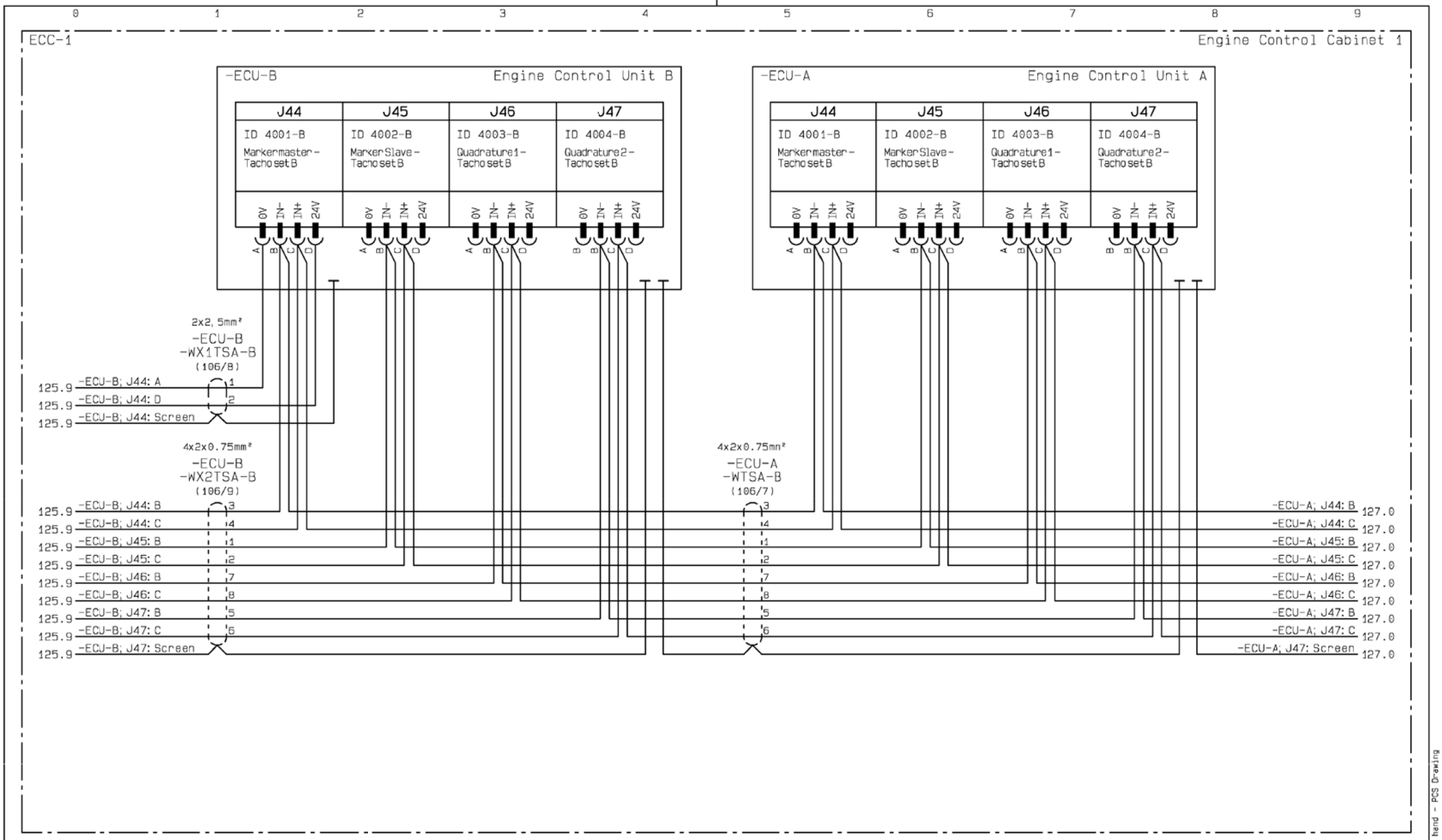
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho B - ECU-B, ECU-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		126(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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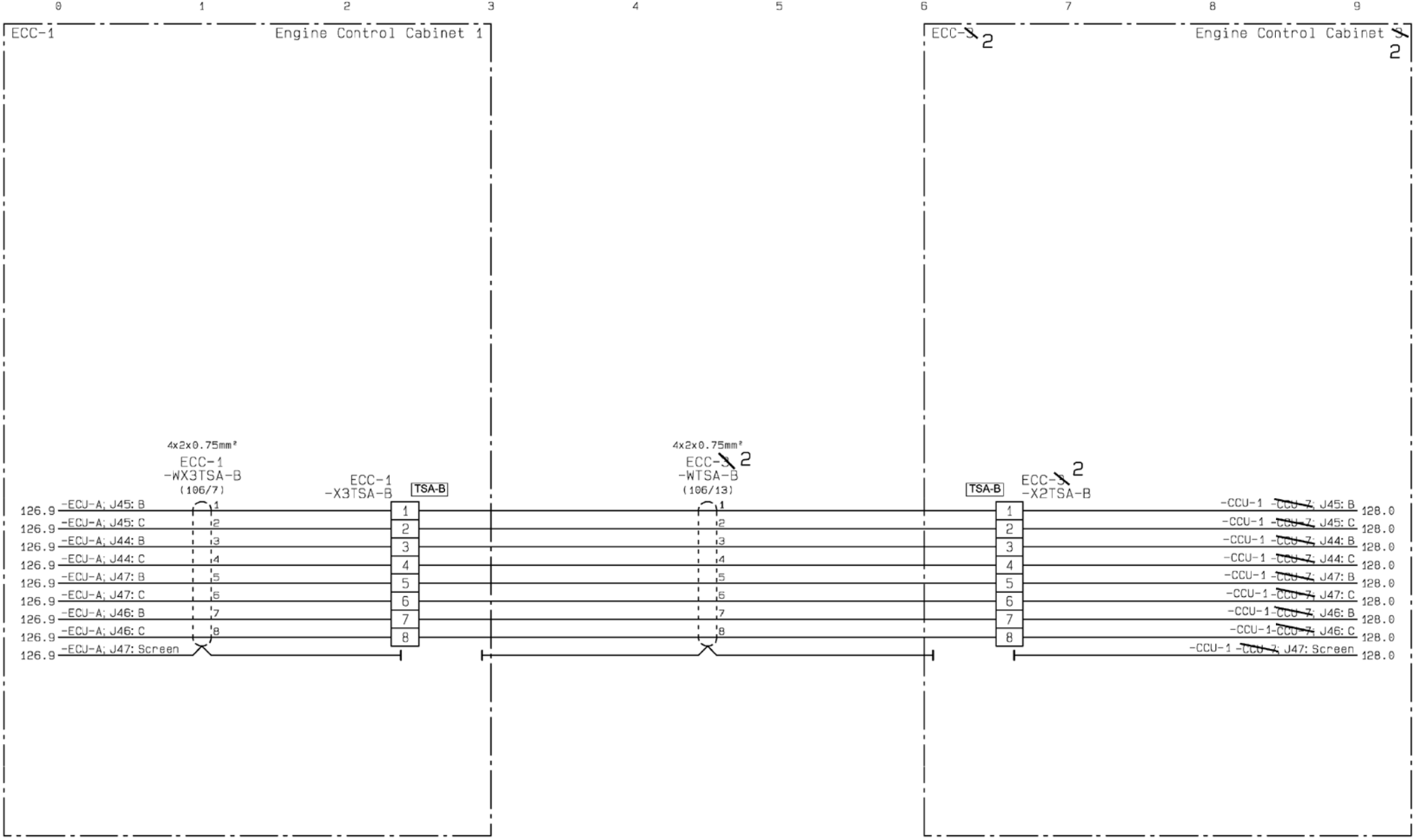
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-1, Tacho B - X3TSA-A & ECC3 Tacho A - X2TSA-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		127(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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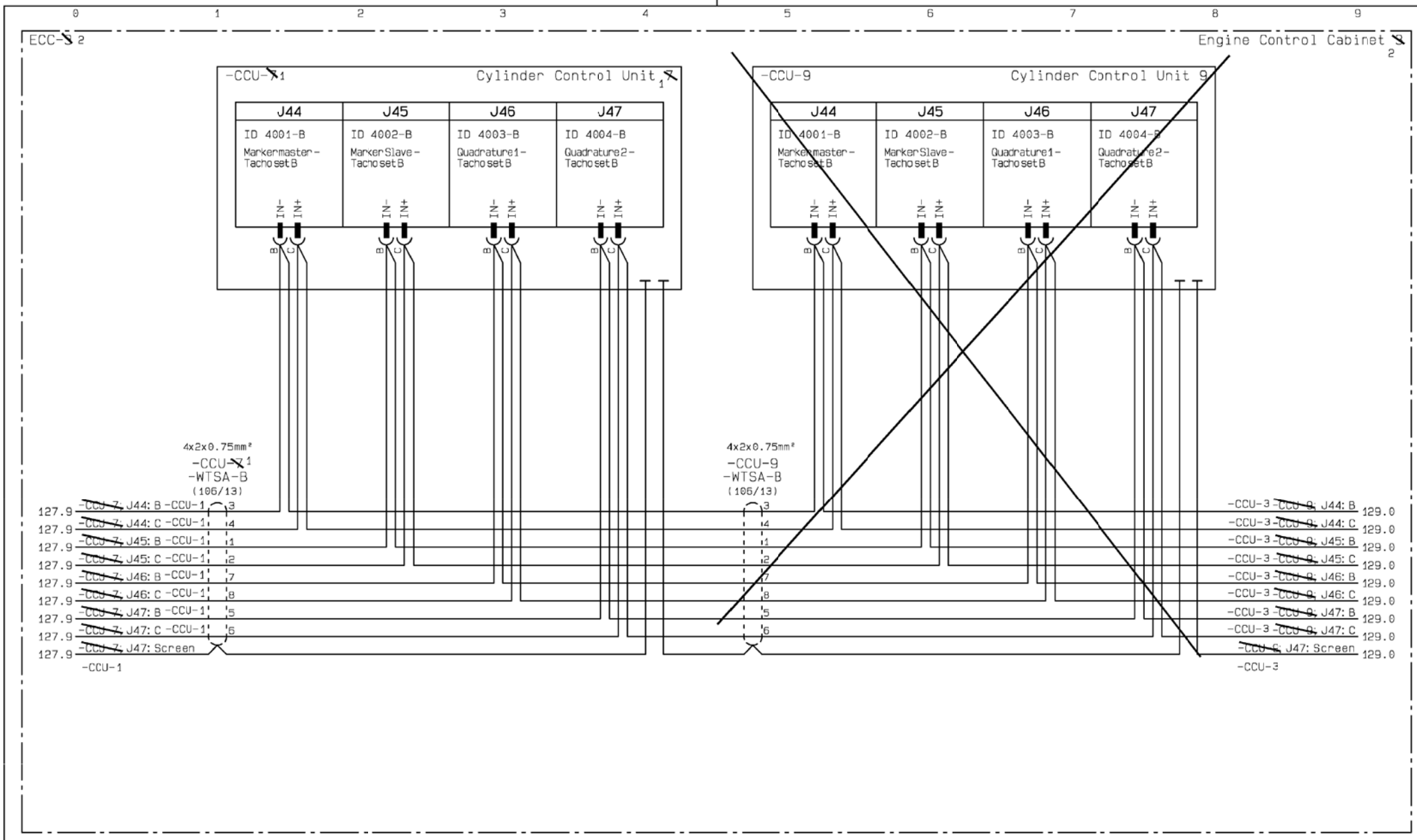
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho B - CCU-7, CCU-9

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		128(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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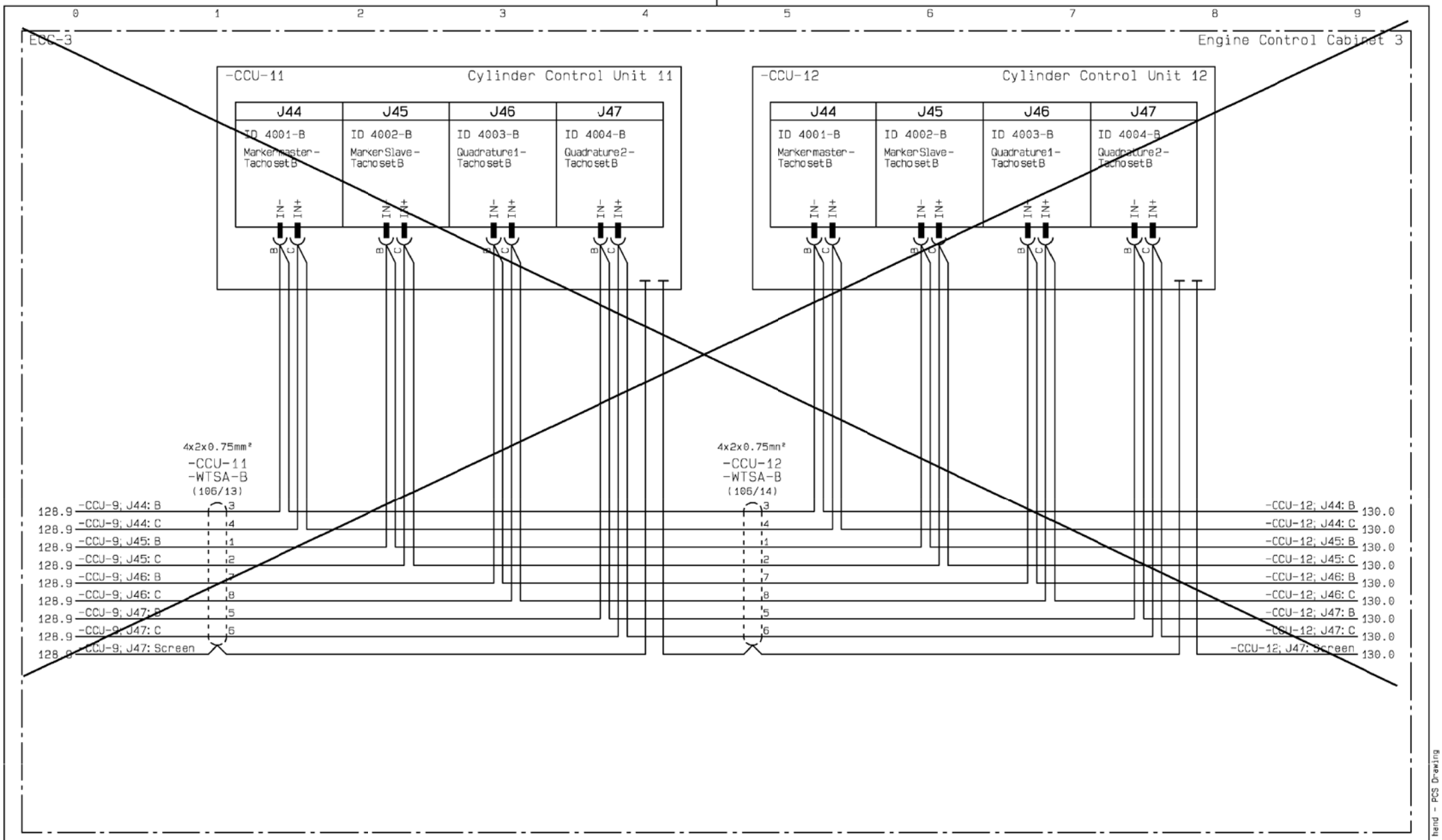
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho B - CCU-11, CCU-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 129(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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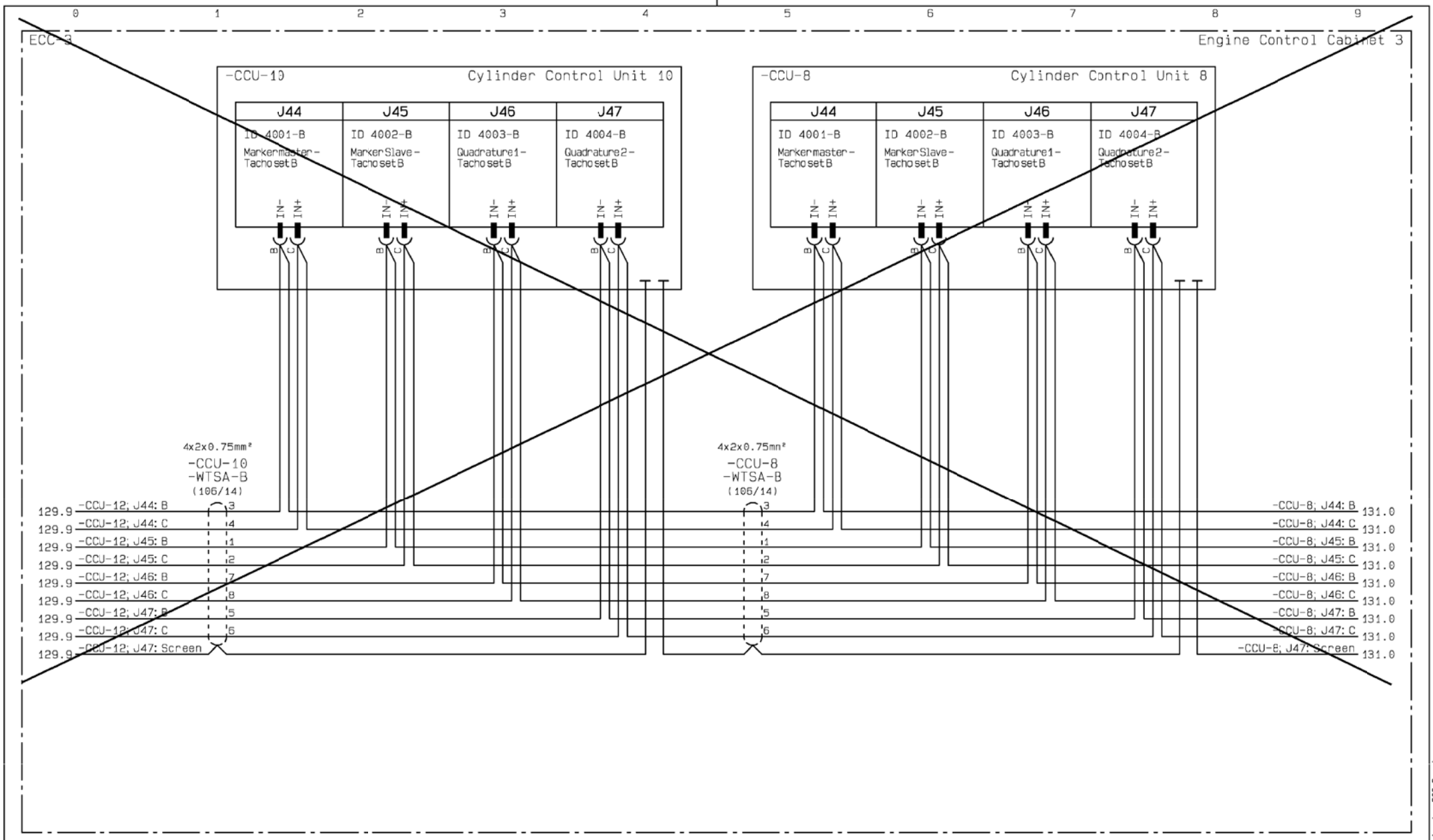
CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho B - CCU-10, CCU-8

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		130(225)

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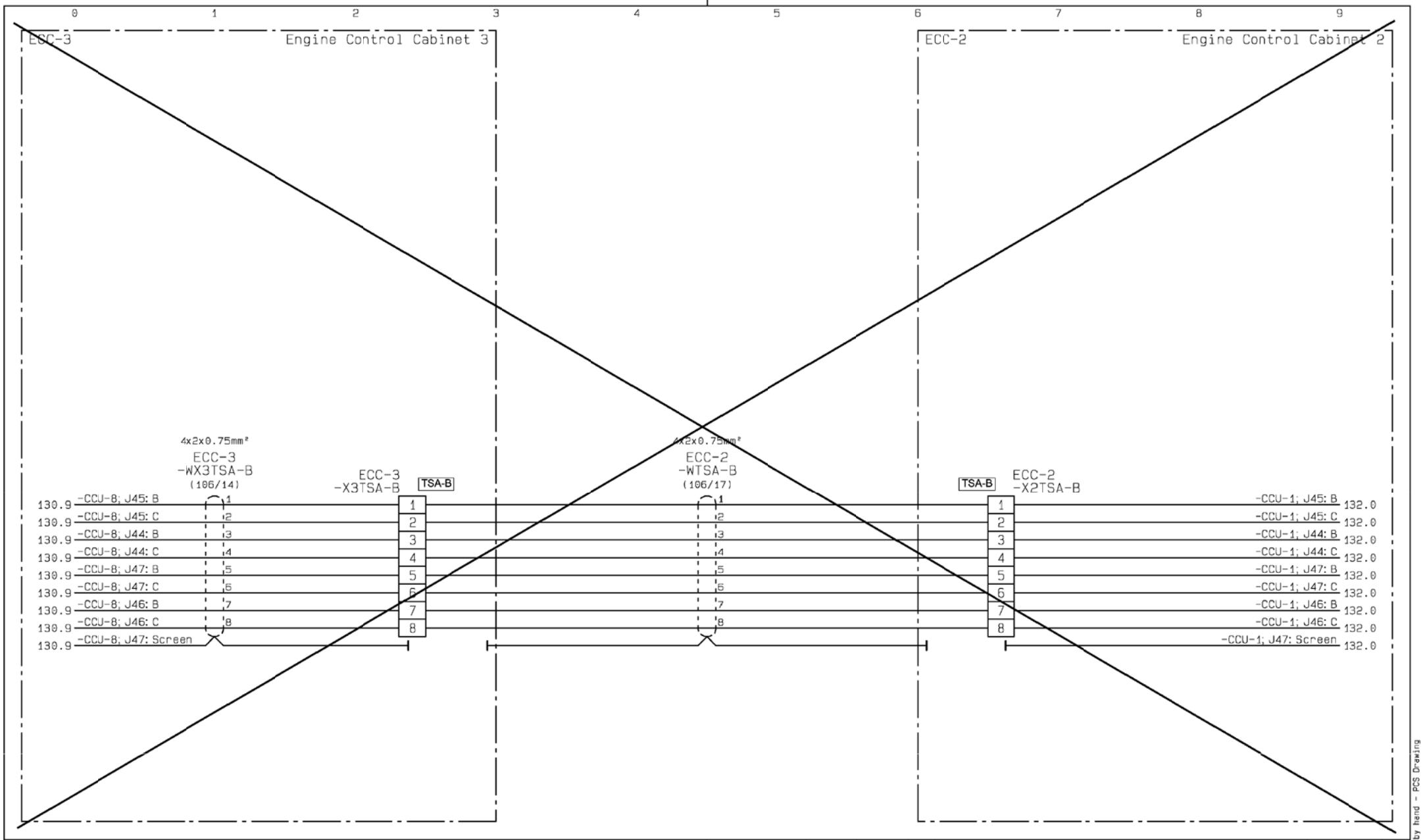
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ME ECS ECC-3, Tacho B - X3TSA-A & ECC2 Tacho A - X2TSA-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	ME ECS 5-12 CYL		131(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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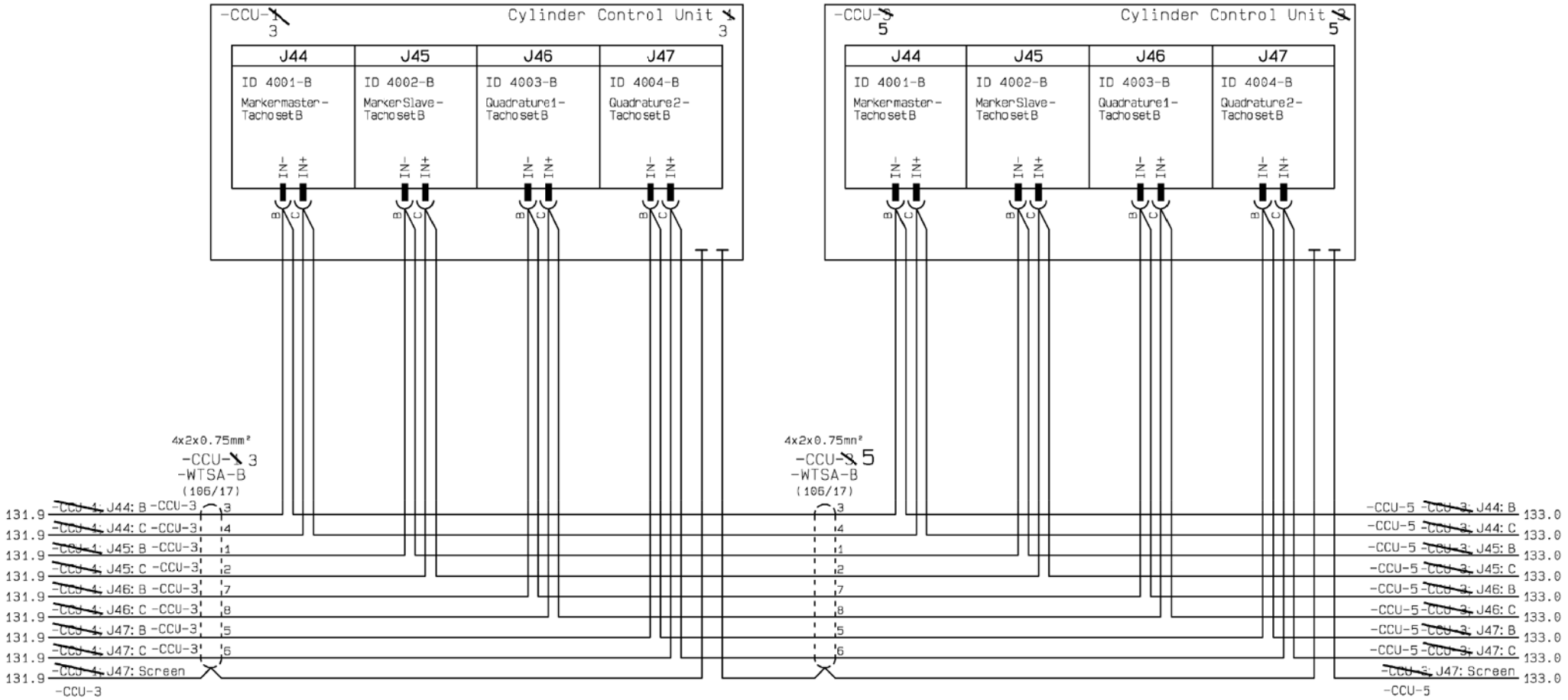
CAD Drawing - do not correct by hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho B - CCU-1, CCU-3

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		132(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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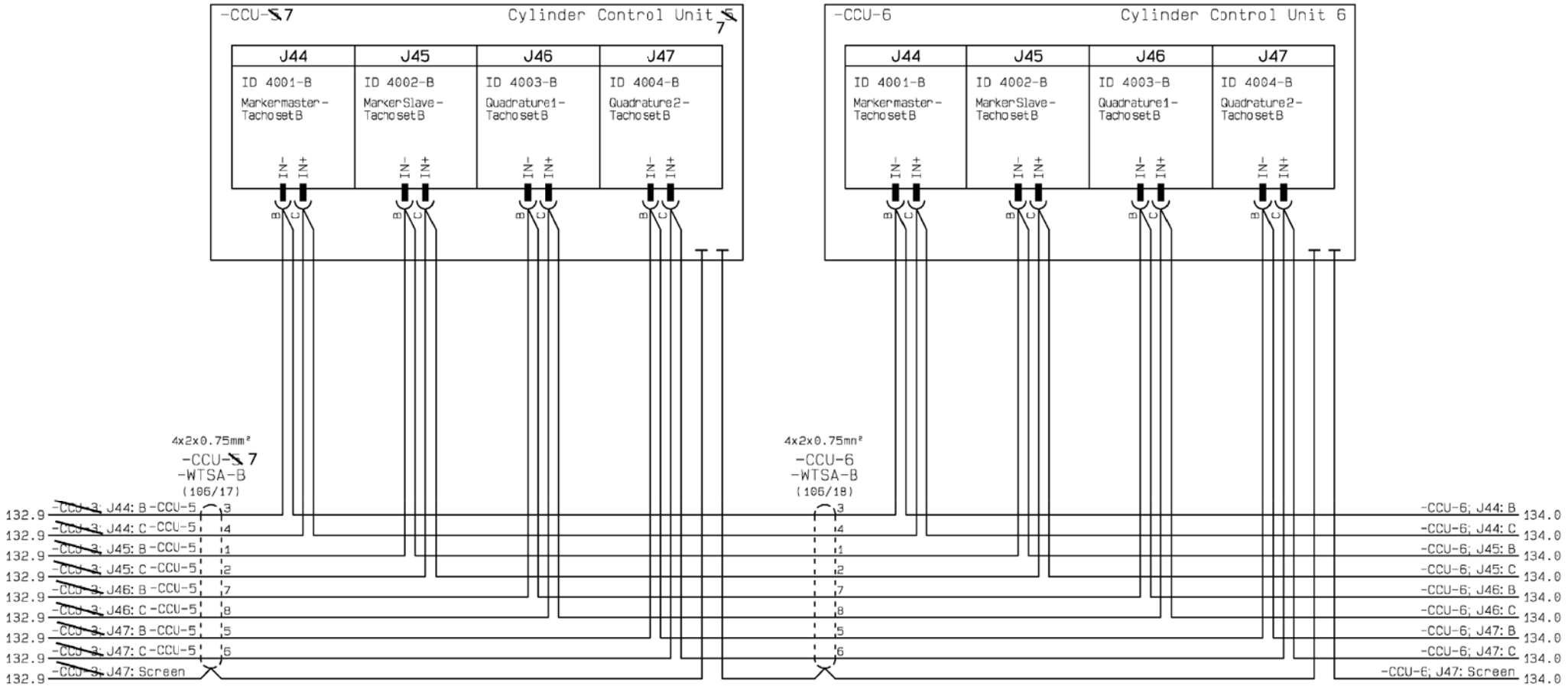
CAD Drawing - do not correct by Hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho B - CCU-5, CCU-6

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		133(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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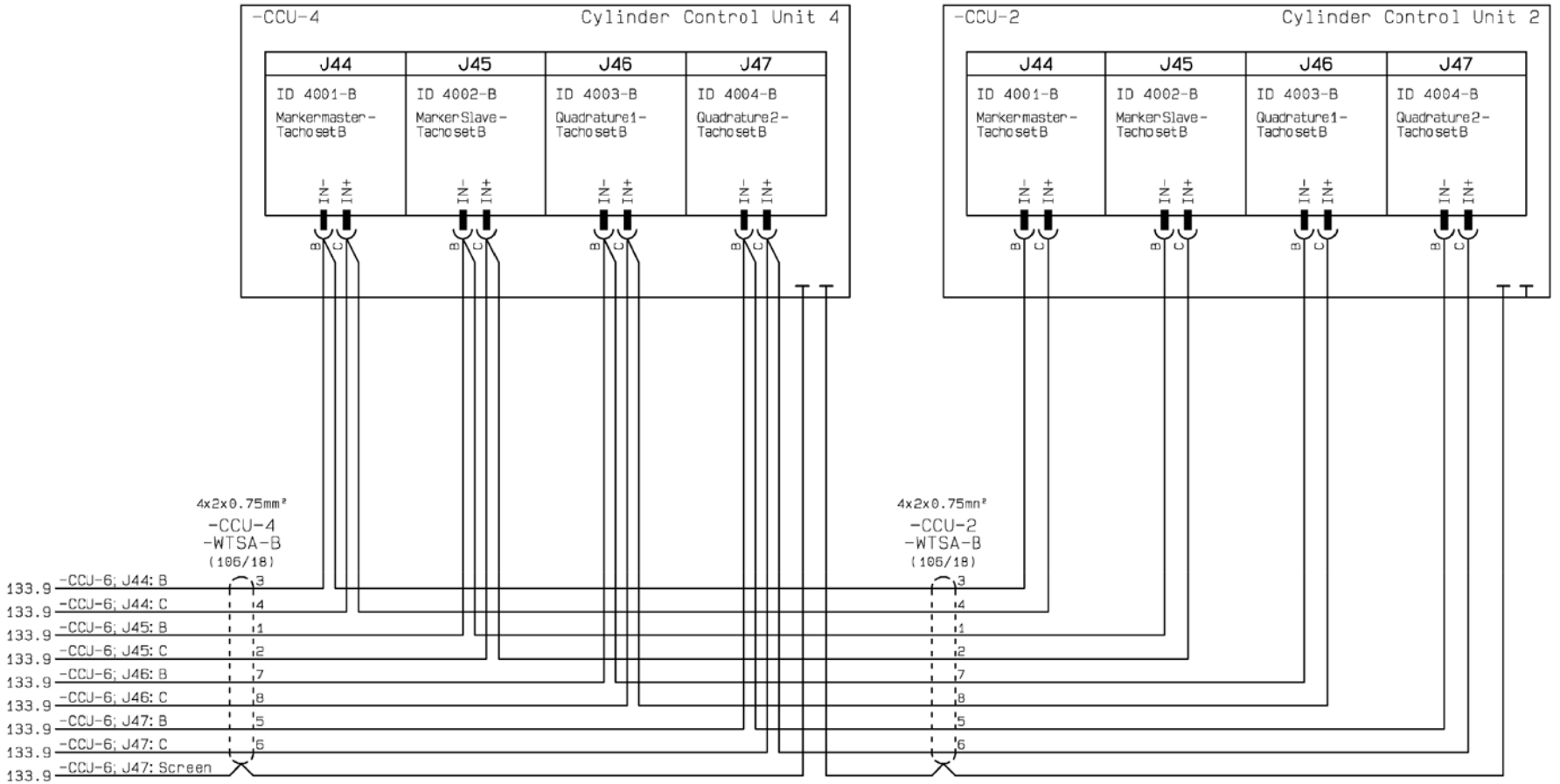
CAD Drawing - do not correct by Hand - PCS Drawing

ECC-2

Engine Control Cabinet 2



ME ECS ECC-2, Tacho B - CCU-4, CCU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		134(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

9 POWER & INSULATION RESISTANCE MONITORING

Page ...

POWER & INSULATION RESISTANCE MONITORING	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 121(228)
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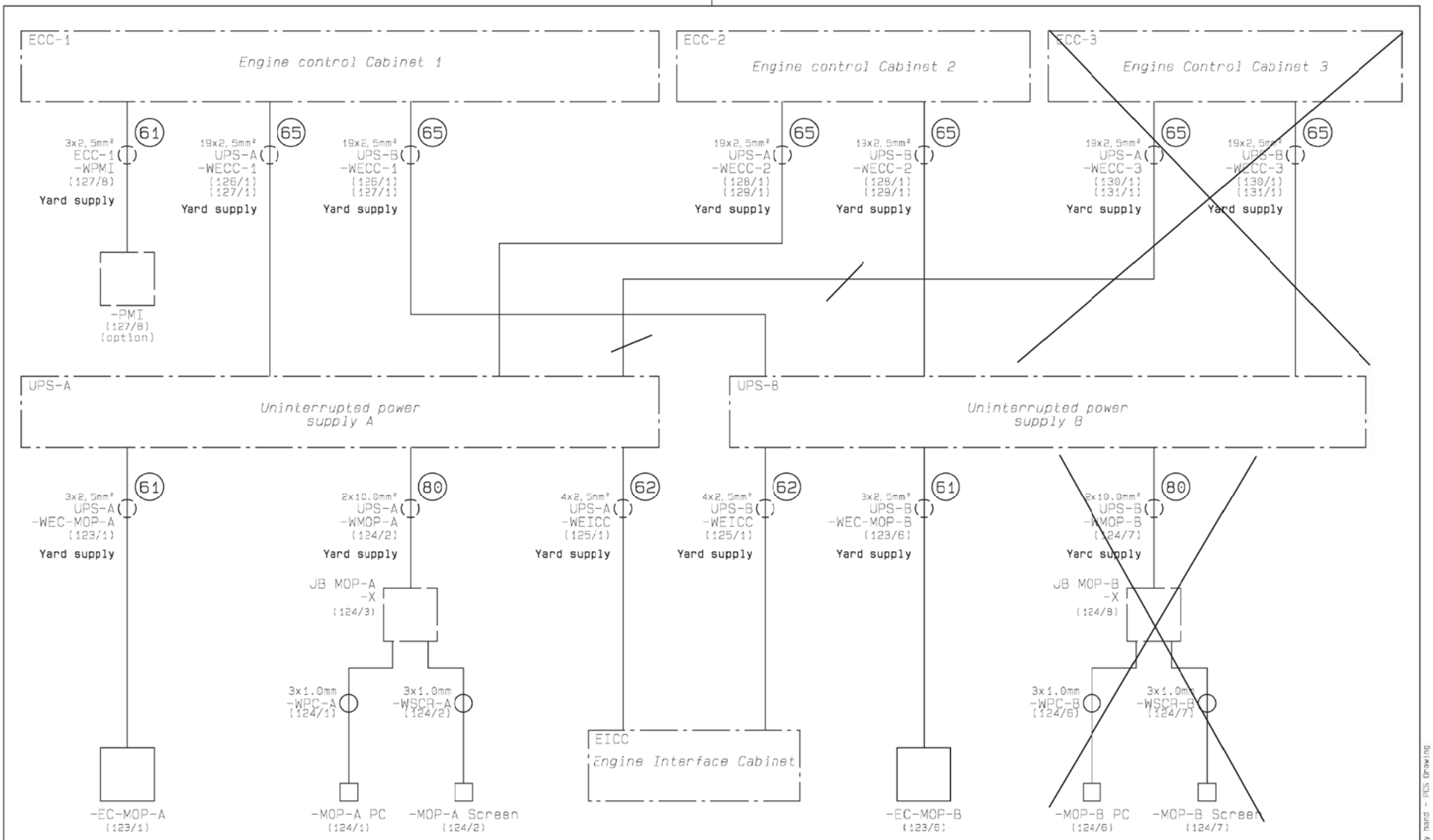
	Final User Info. No.:	Final User Description: ME ECS 7 CYL					Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by hand - PES Drawing



24VDC Power, Layout / Overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		122(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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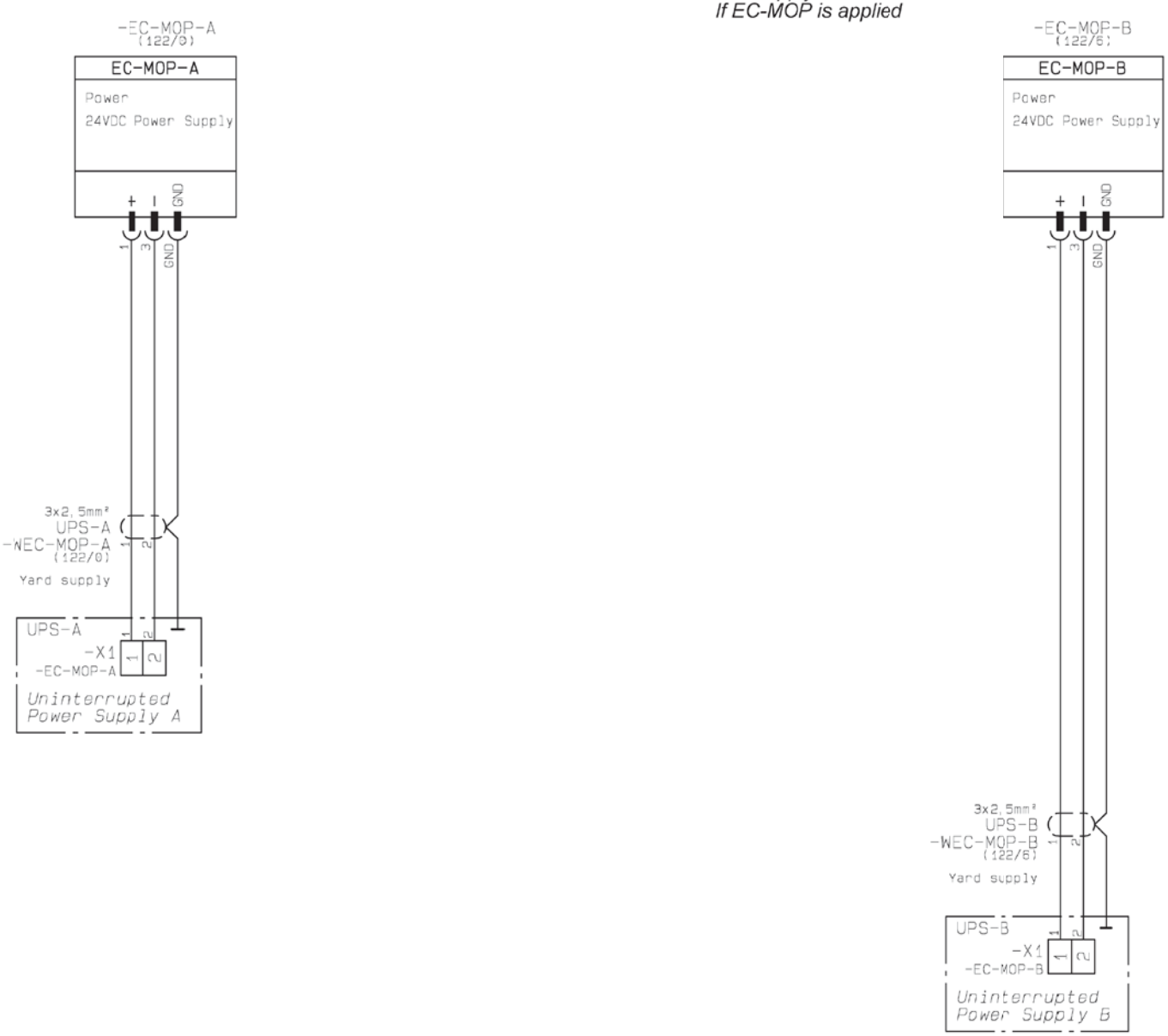
CAD Drawing - do not correct by hand - PES Drawing

Power Supply Connection:
If EC-MOP is applied



24VDC Power, EC-MOP-A + EC-MOP-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		123(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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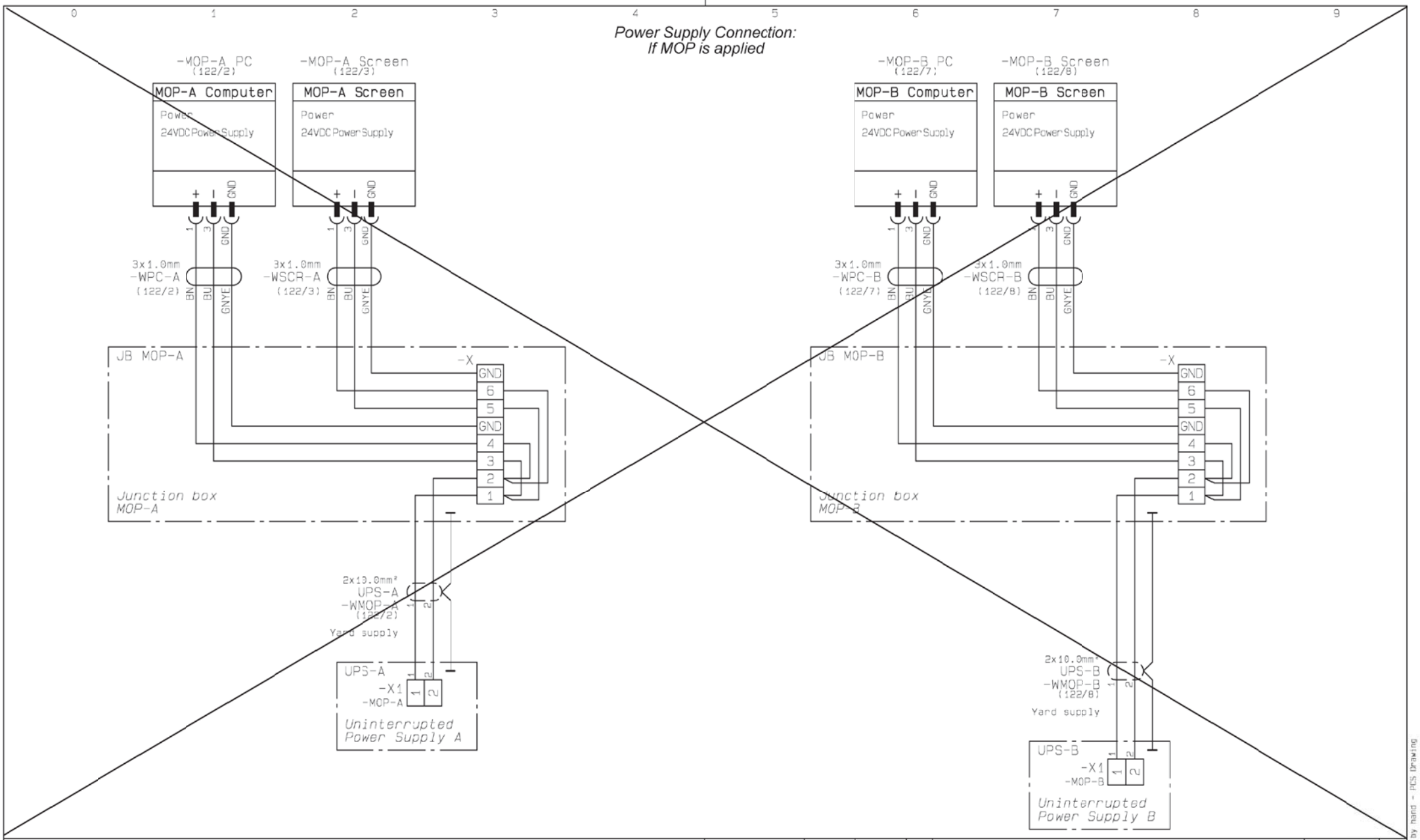
CAD Drawing - do not correct by hand - PES Drawing



24VDC Power, MOP-A + MOP-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		124(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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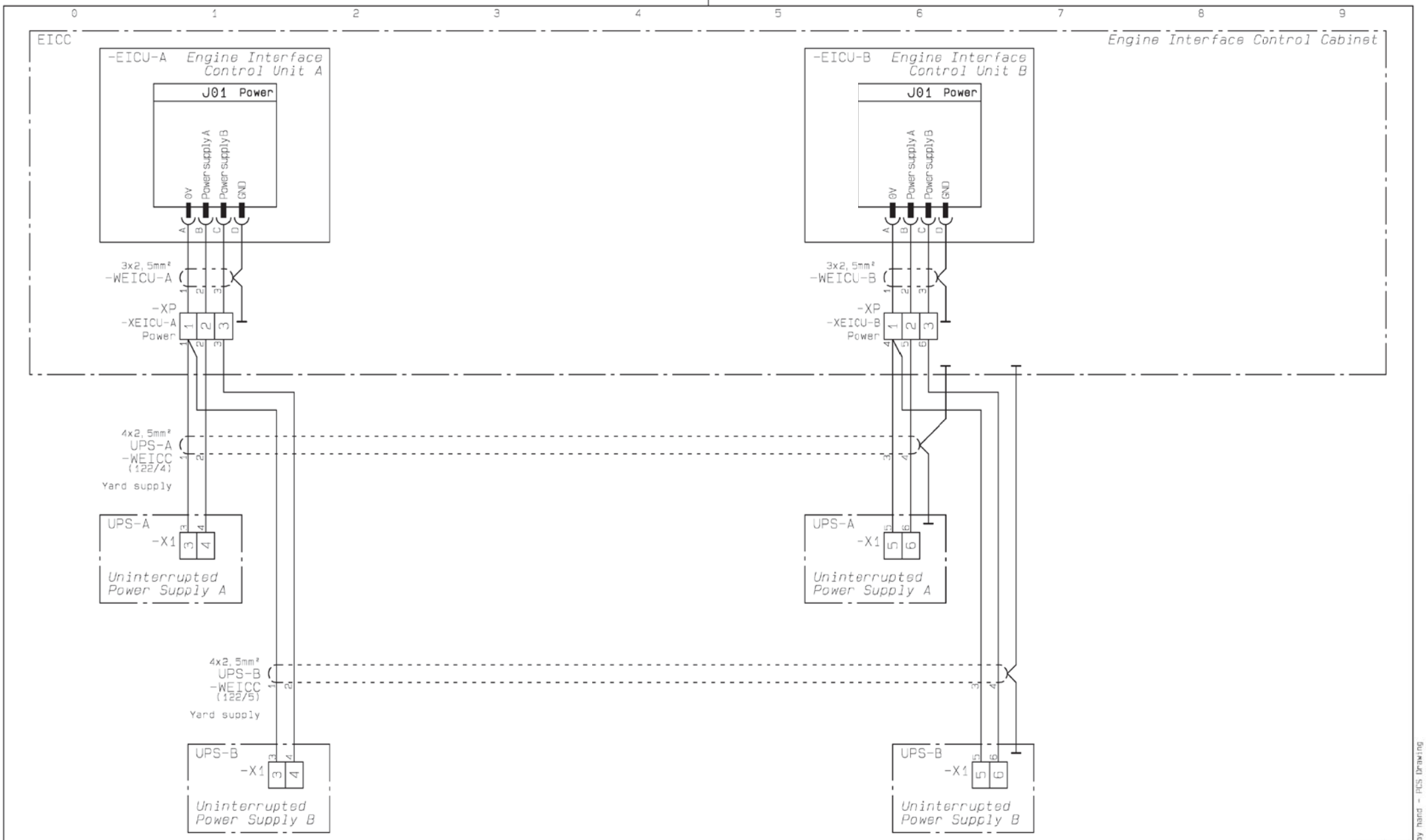
CAD Drawing - do not correct by hand - PCS Drawing



EICC - 24VDC Power, EICU-A + EICU-B

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME-ECS-5-12-CYL~~		125(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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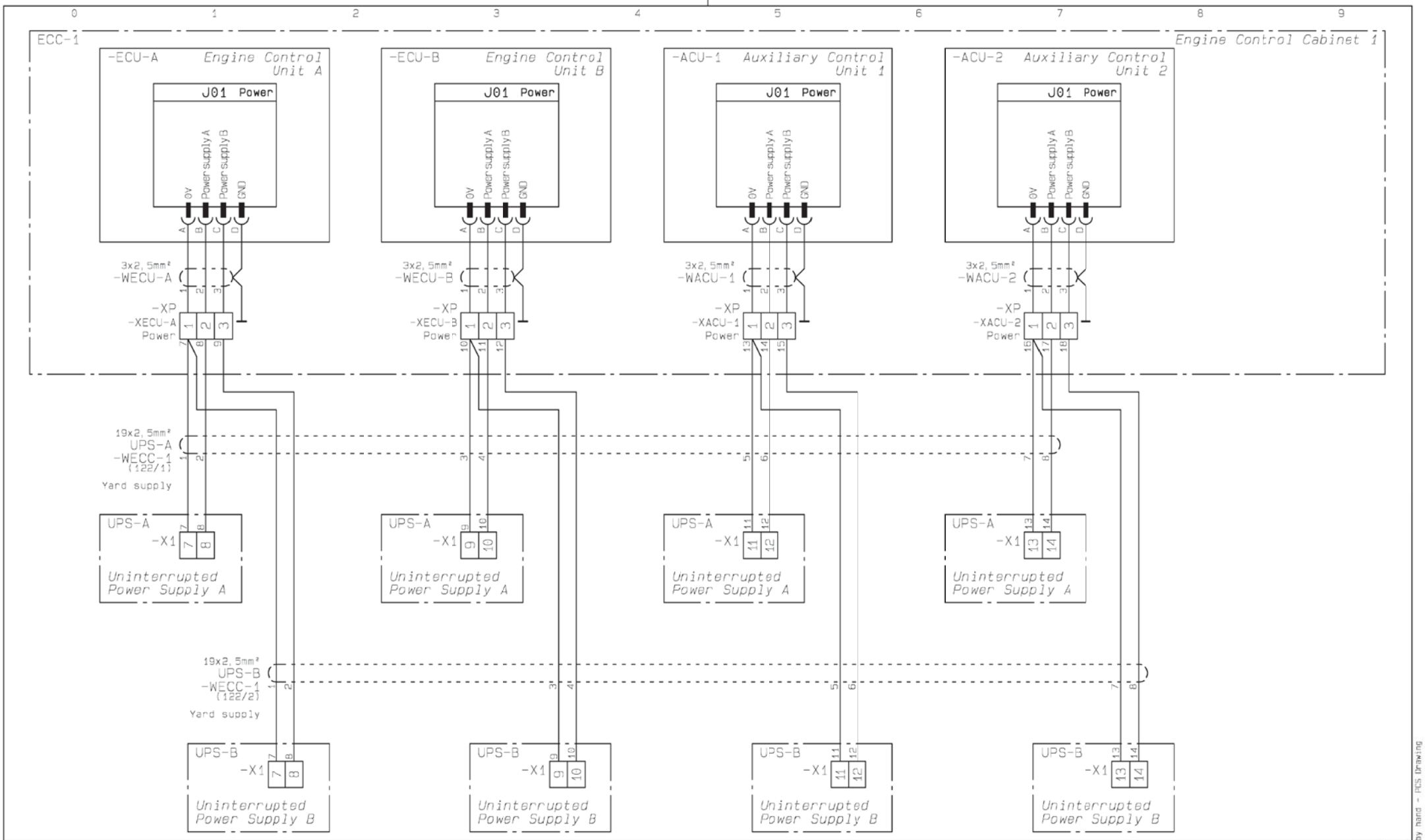
CAD Drawing - do not correct by hand - PES Drawing



ECC-1 - 24VDC Power, ECU-A + ECU-B + ACU-1 + ACU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		126(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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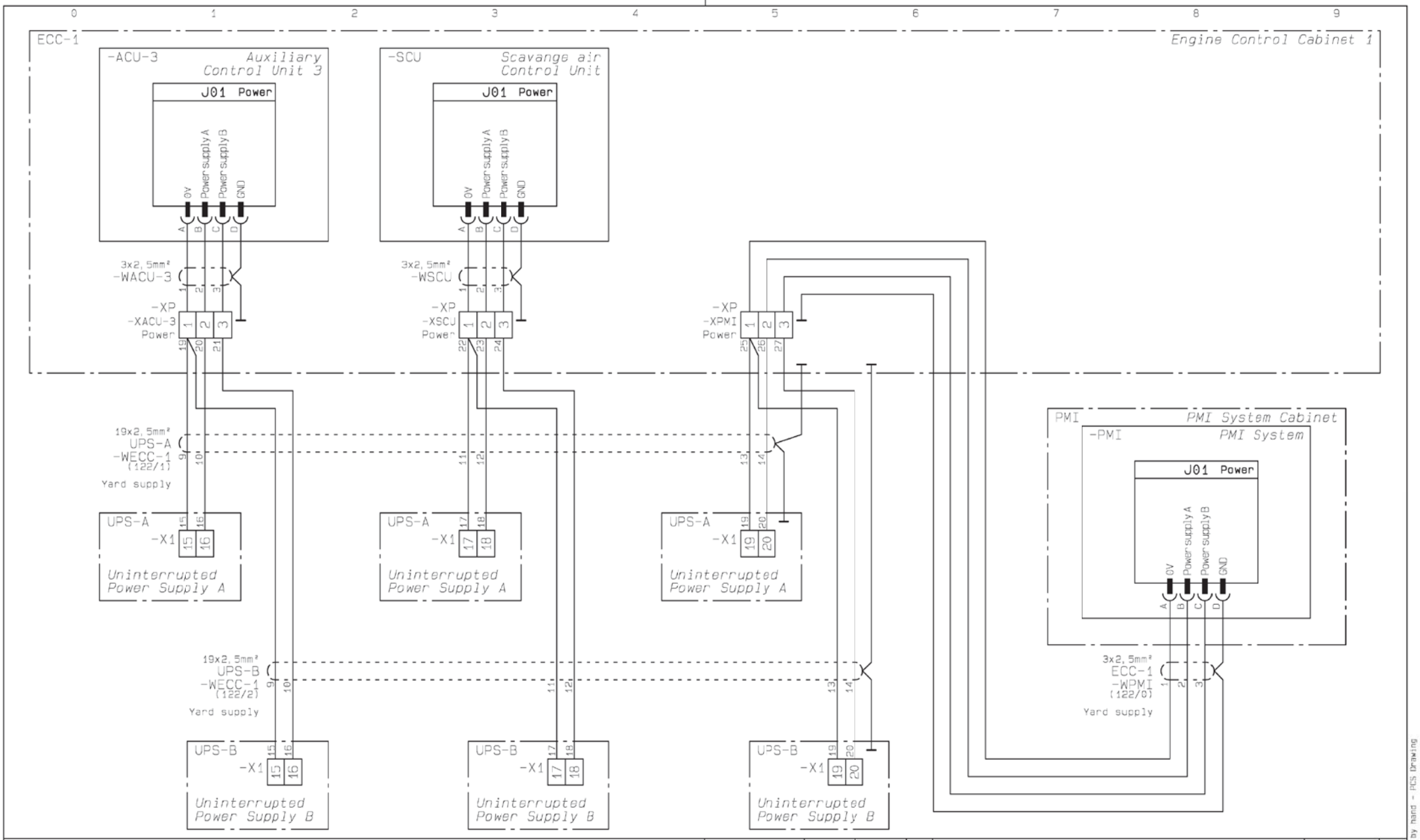
CAD Drawing - do not correct by hand - PCS Drawing



ECC-1 - 24VDC Power, ACU-3 + SCU + PMI

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		127(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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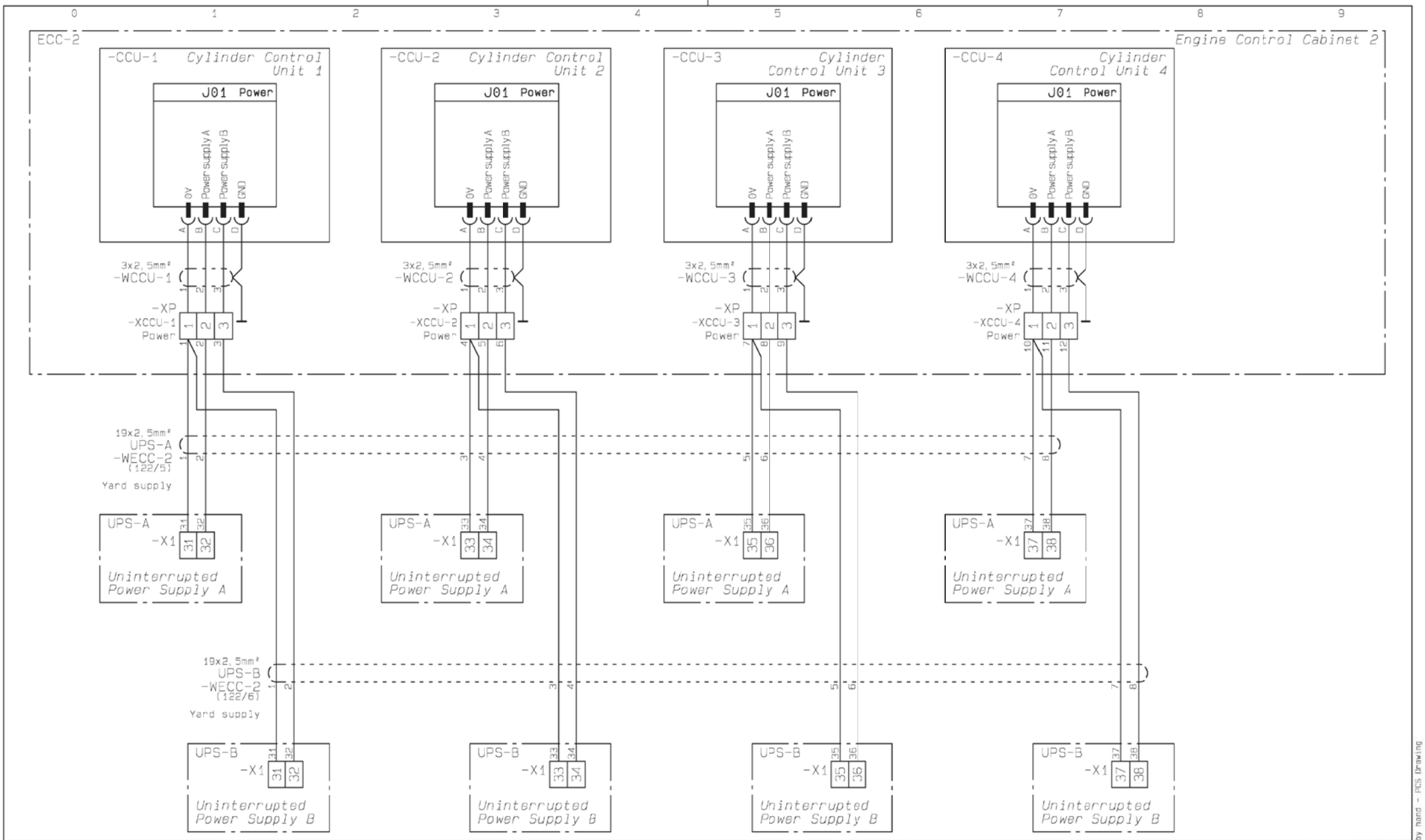
CAD Drawing - do not correct by hand - PES Drawing



ECC-2 - 24VDC Power, CCU-1 + CCU-2 + CCU-3 + CCU-4

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		128(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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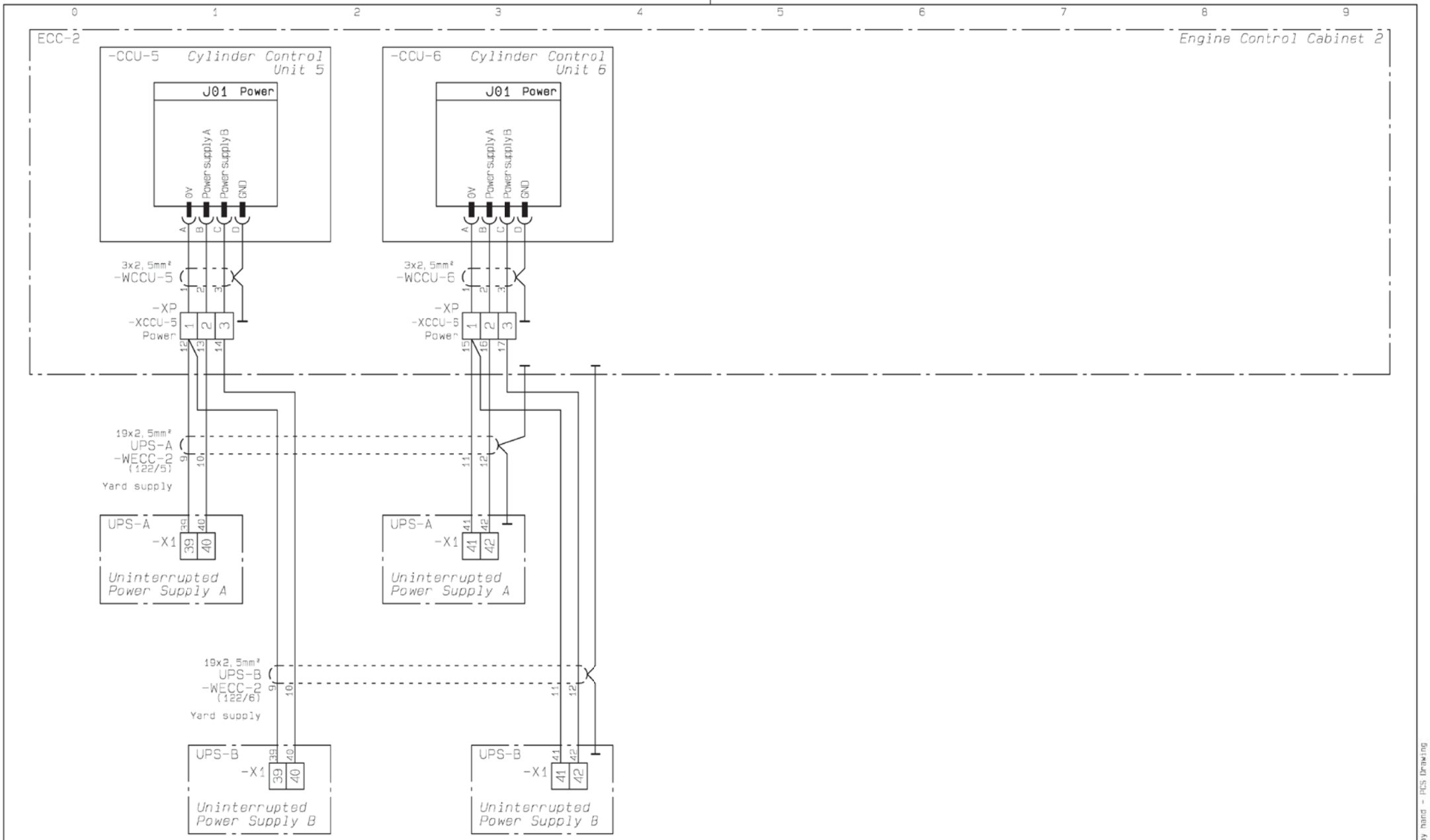
CAD Drawing - do not correct by hand - PCS Drawing



ECC-2 - 24VDC Power, CCU-5 + CCU-6

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		129(228)

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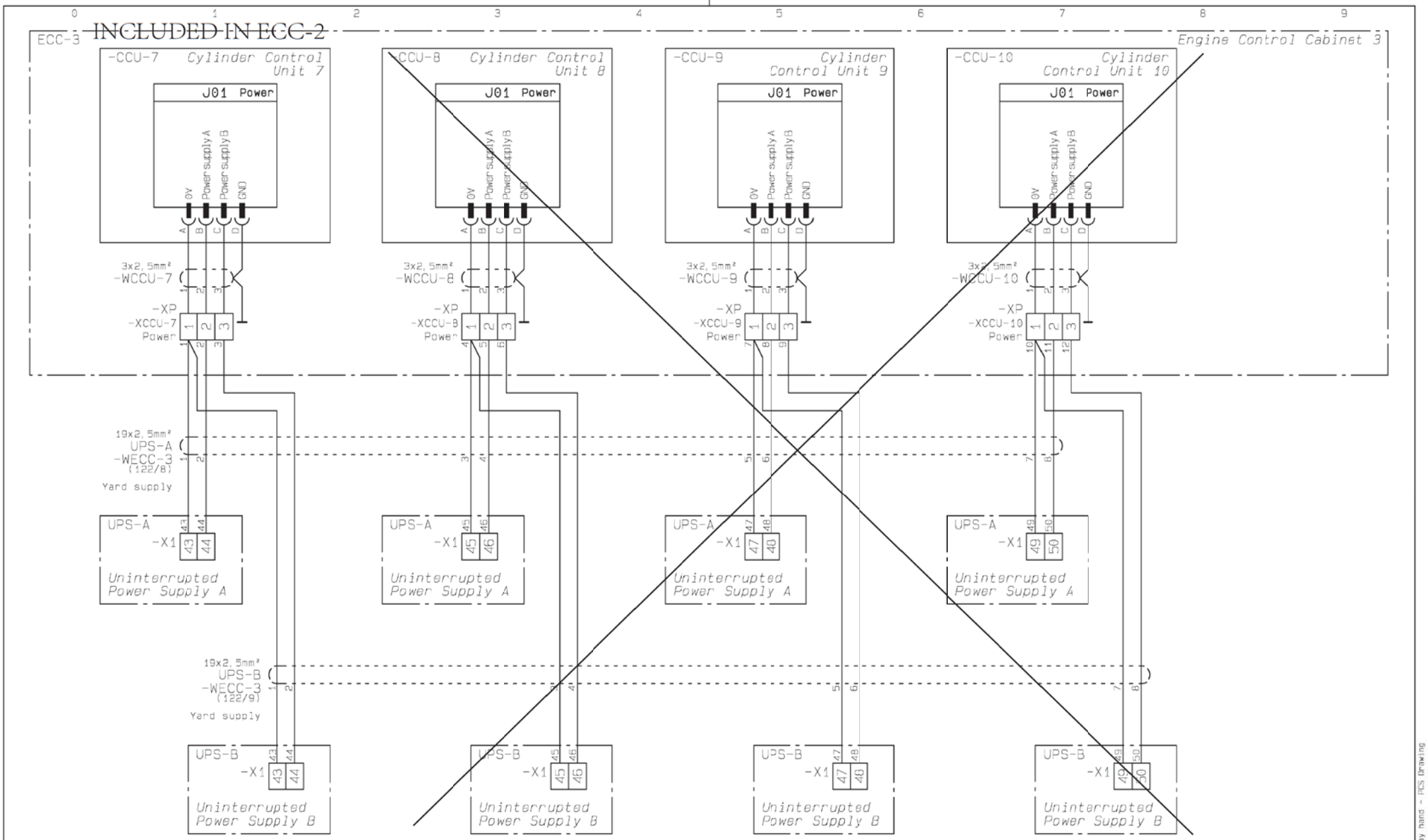
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PES Drawing



ECC-3 - 24VDC Power, CCU-7 + CCU-8 + CCU-9 + CCU-10

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		130(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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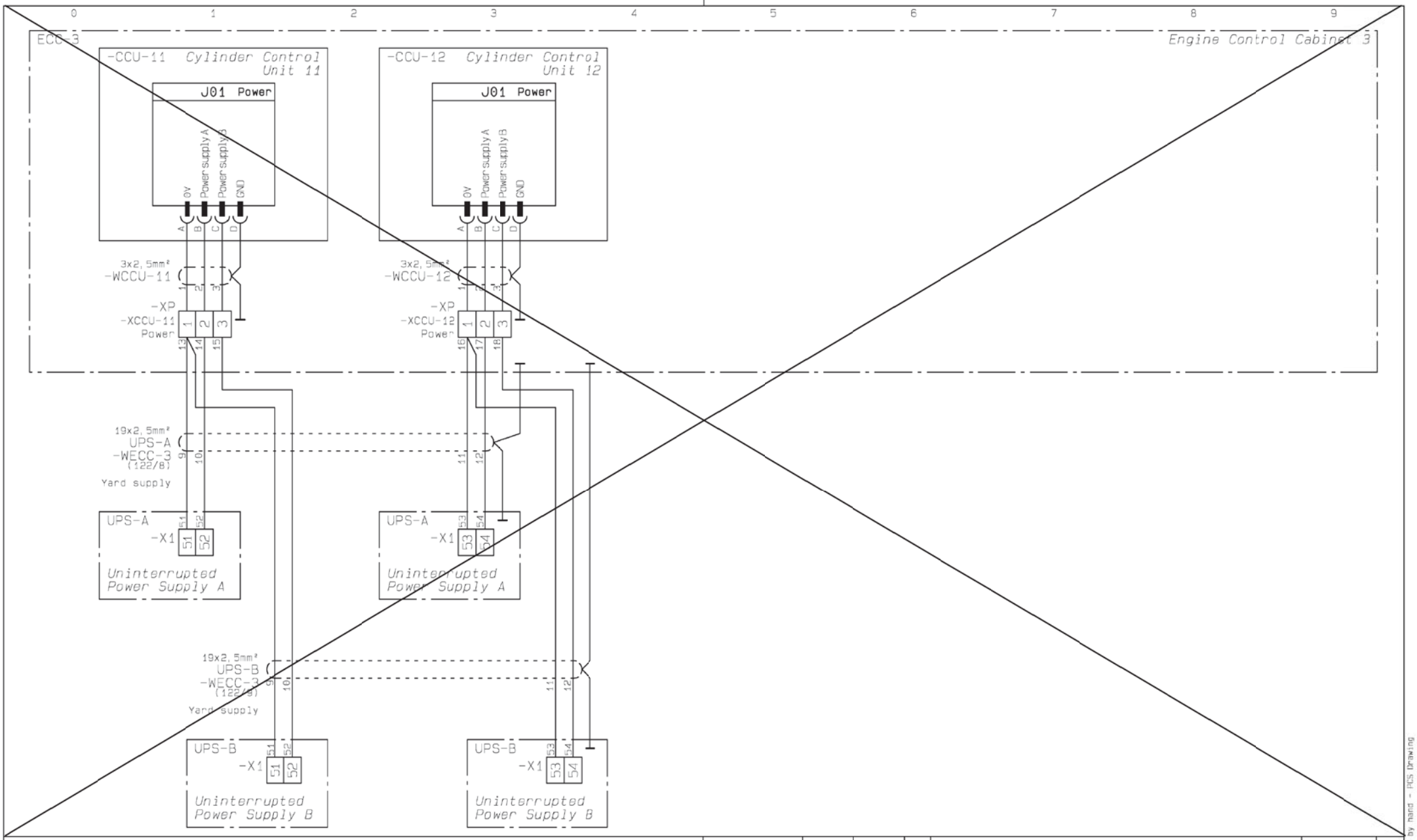
CAD Drawing - do not correct by hand - PCS Drawing



ECC-3 - 24VDC Power, CCU-11 + CCU-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME-ECS-5-12-CYL~~		131(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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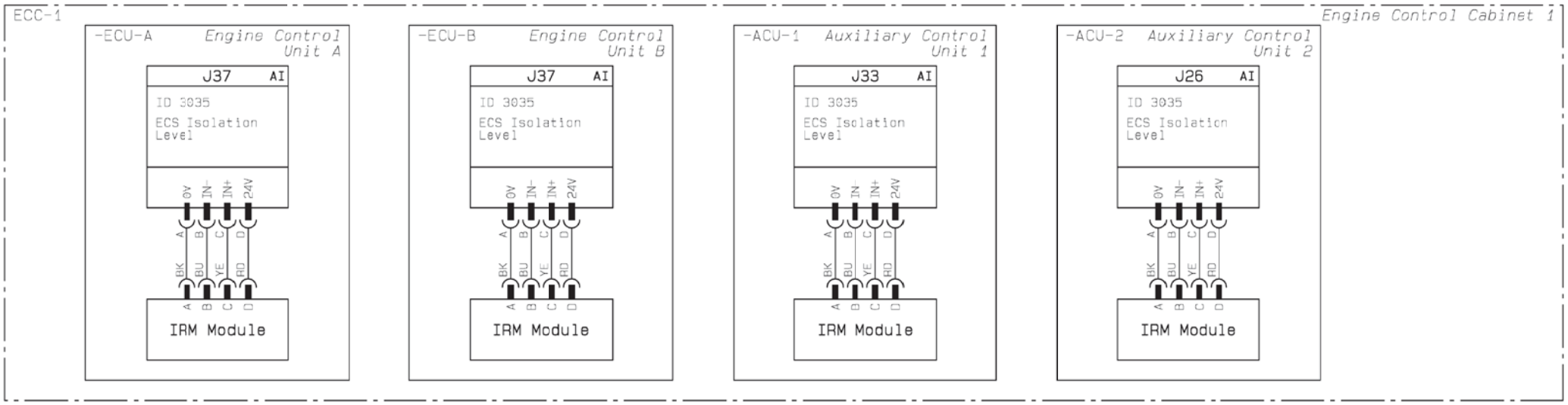
CAD Drawing - do not correct by hand - PES Drawing



ECC-1 - ID 3035 IRM Module, ECU-A + ECU-B + ACU-1 + ACU-2

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale: | Size: A3 | Product Type: ~~ME-ECS-5-12-CYL~~ | Projection: | Page No.: 132(228)

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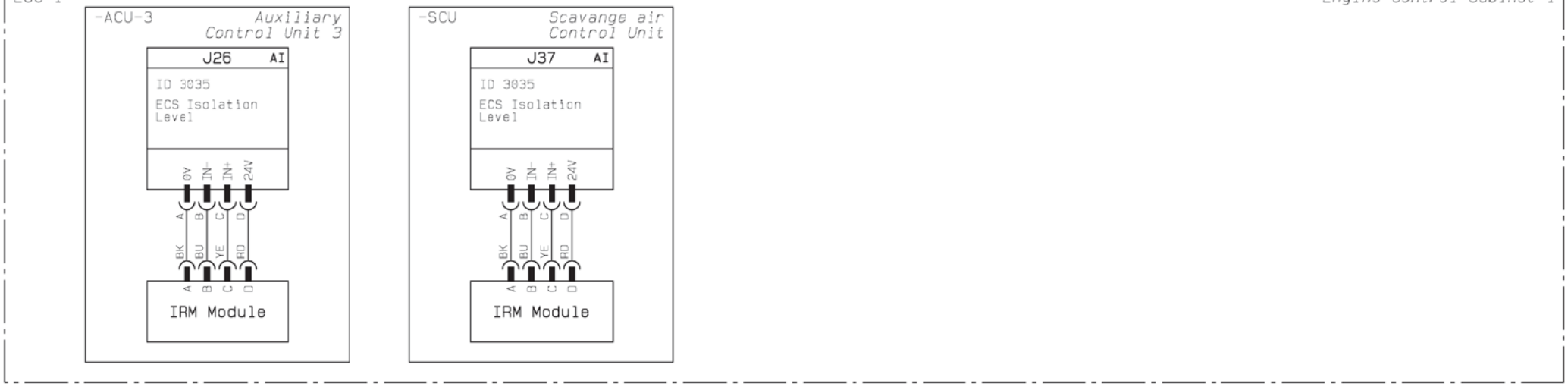
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PES Drawing



ECC-1 - ID 3035 IRM Module, ACU-3 + SCU

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		133(228)

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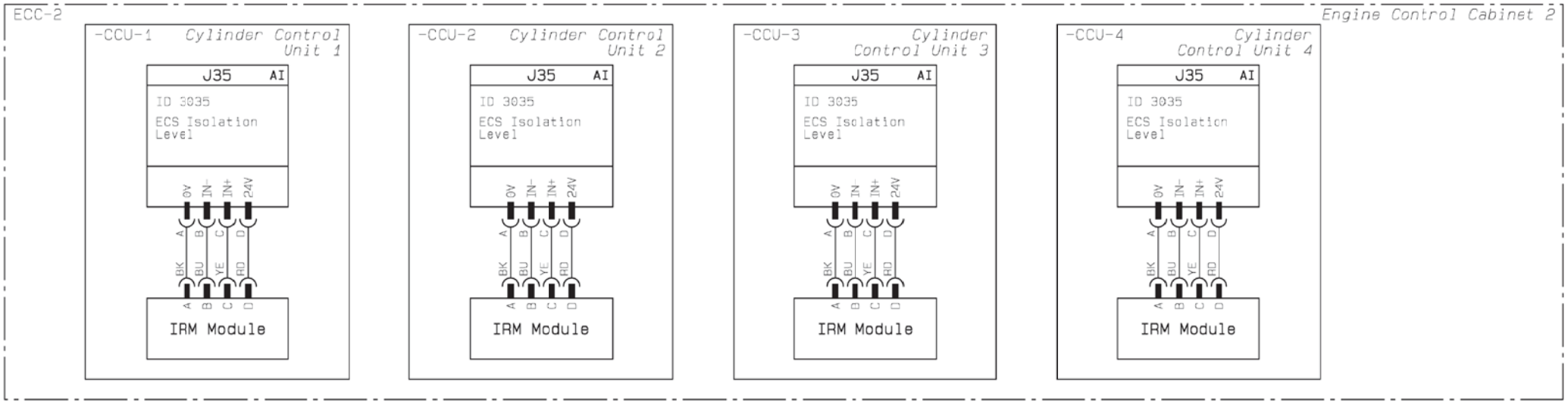
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ECC-2 - ID 3035 IRM Module, CCU-1 + CCU-2 + CCU-3 + CCU-4

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		134(228)

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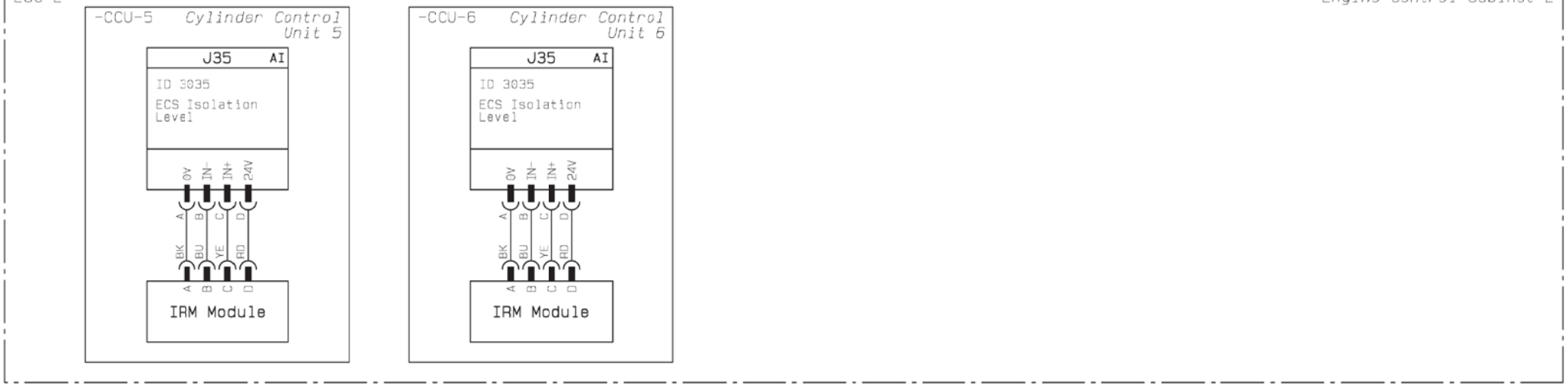
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ECC-2 - ID 3035 IRM Module, CCU-5 + CCU-6

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME EGS 5-12 CYL~~		135(228)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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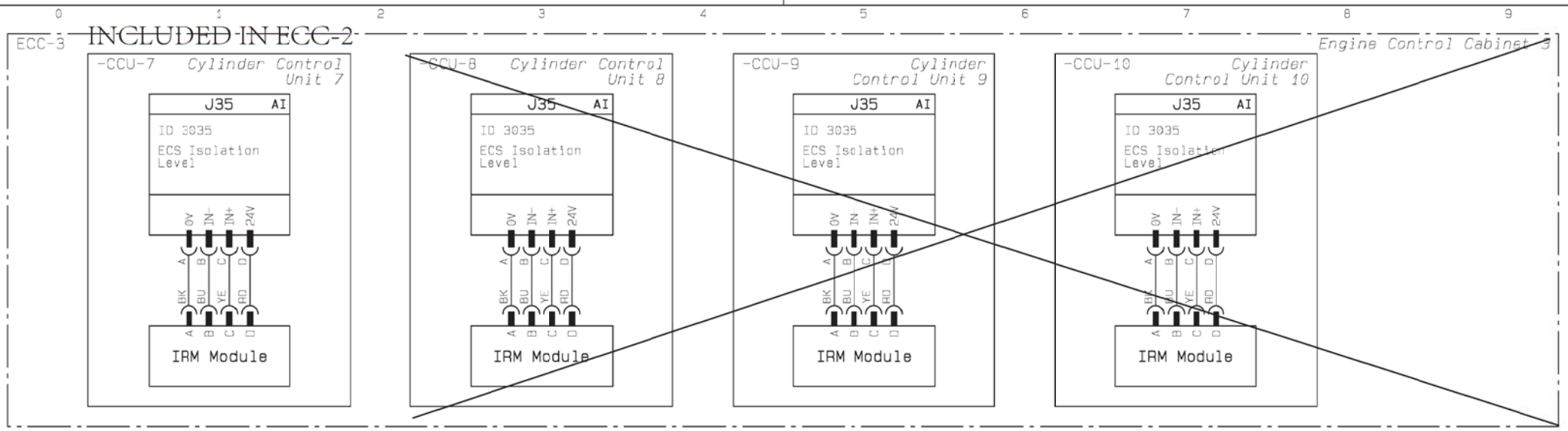
CAD Drawing - do not correct by hand - PCS Drawing



ECC-3 - ID 3035 IRM Module, CCU-7 + CCU-8 + CCU-9 + CCU-10

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	[redacted]		136(228)

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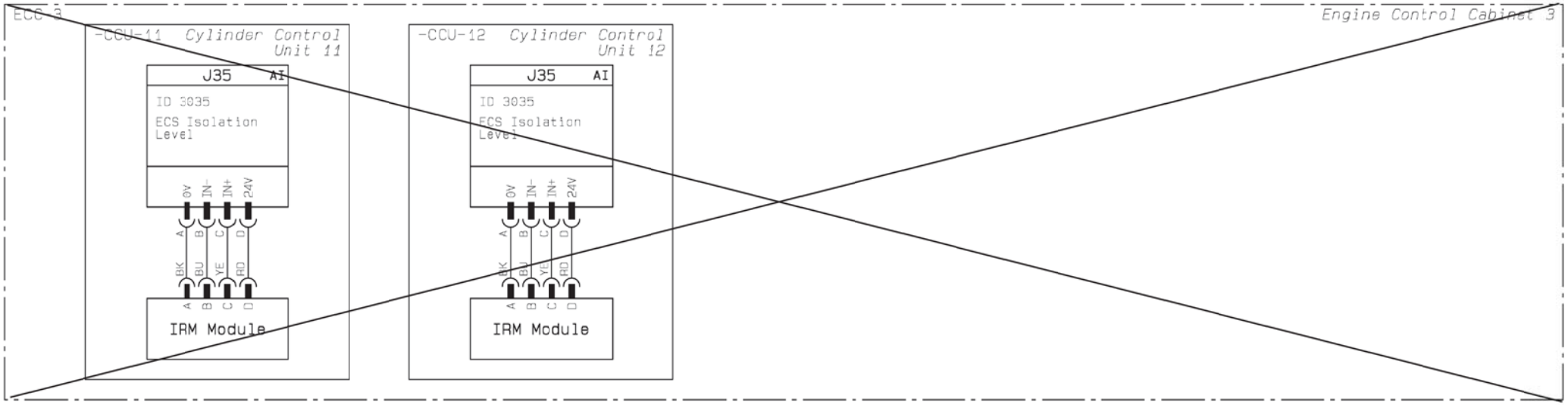
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



ECC-3 - ID 3035 IRM Module, CCU-11 + CCU-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130827	CAHV	JYA	Z3	8712 removed, Network corrected		03

Scale:	Size:	Product Type:	Projection:	Page No.
	A3	~~ME ECS 5-12 CYL~~		137(228)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

ECS INTERFACE TO ALARM SYSTEM AND ECR

ECS INTERFACE TO ALARM SYSTEM AND ECR	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 146(225)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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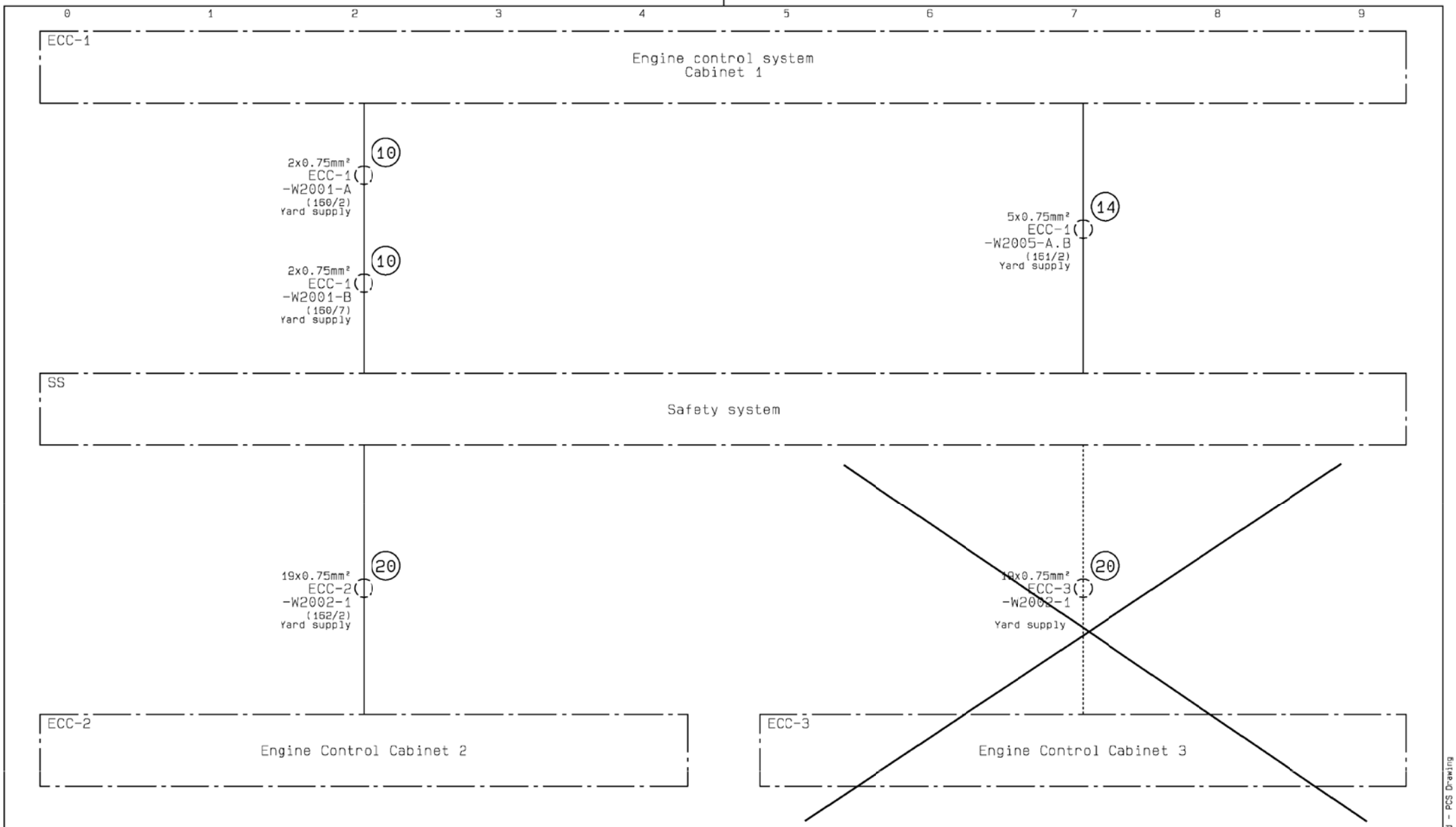
CAD Drawing - do not correct by hand - PCS Drawing



Interface to Alarm and Safety System cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		147(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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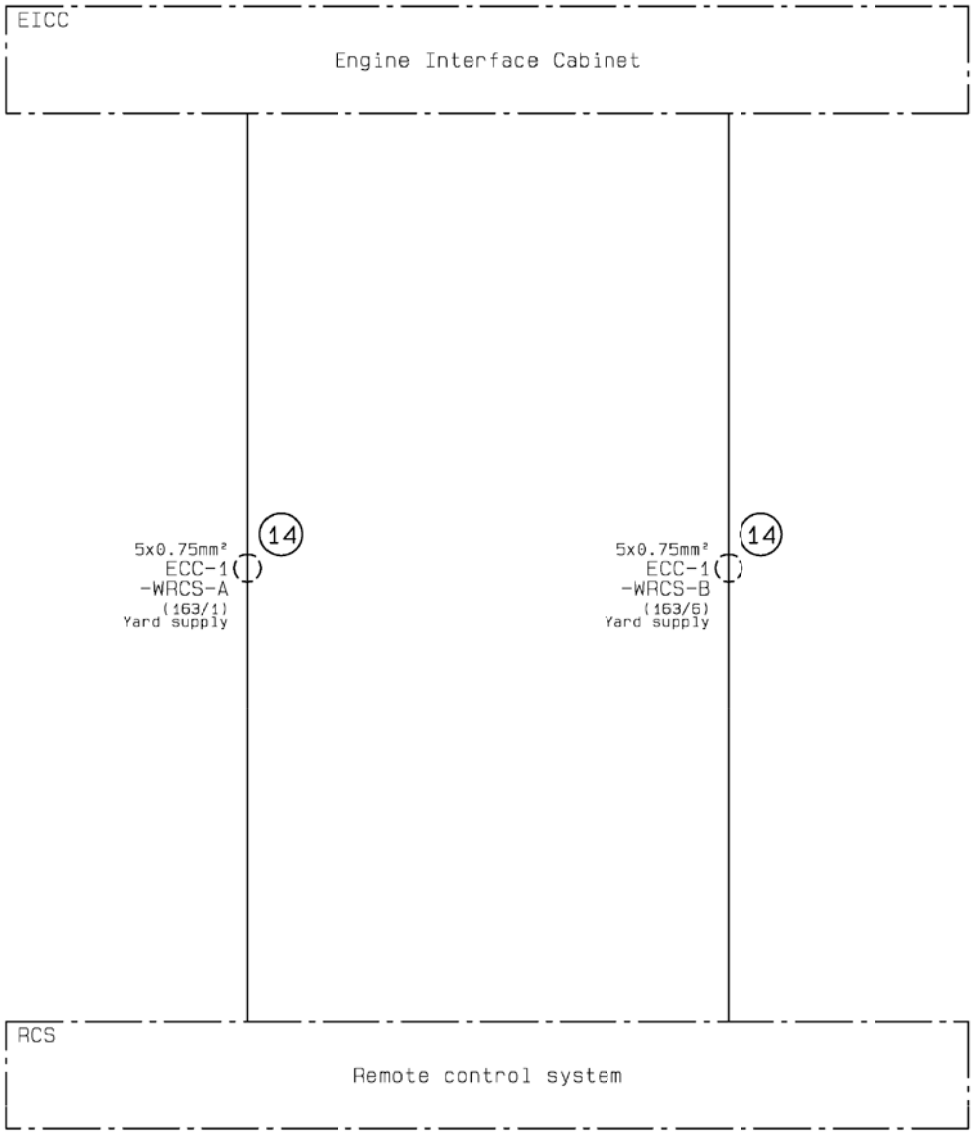
CAD Drawing - do not correct by hand - PCS Drawing



Interface to Remote Control System cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		148(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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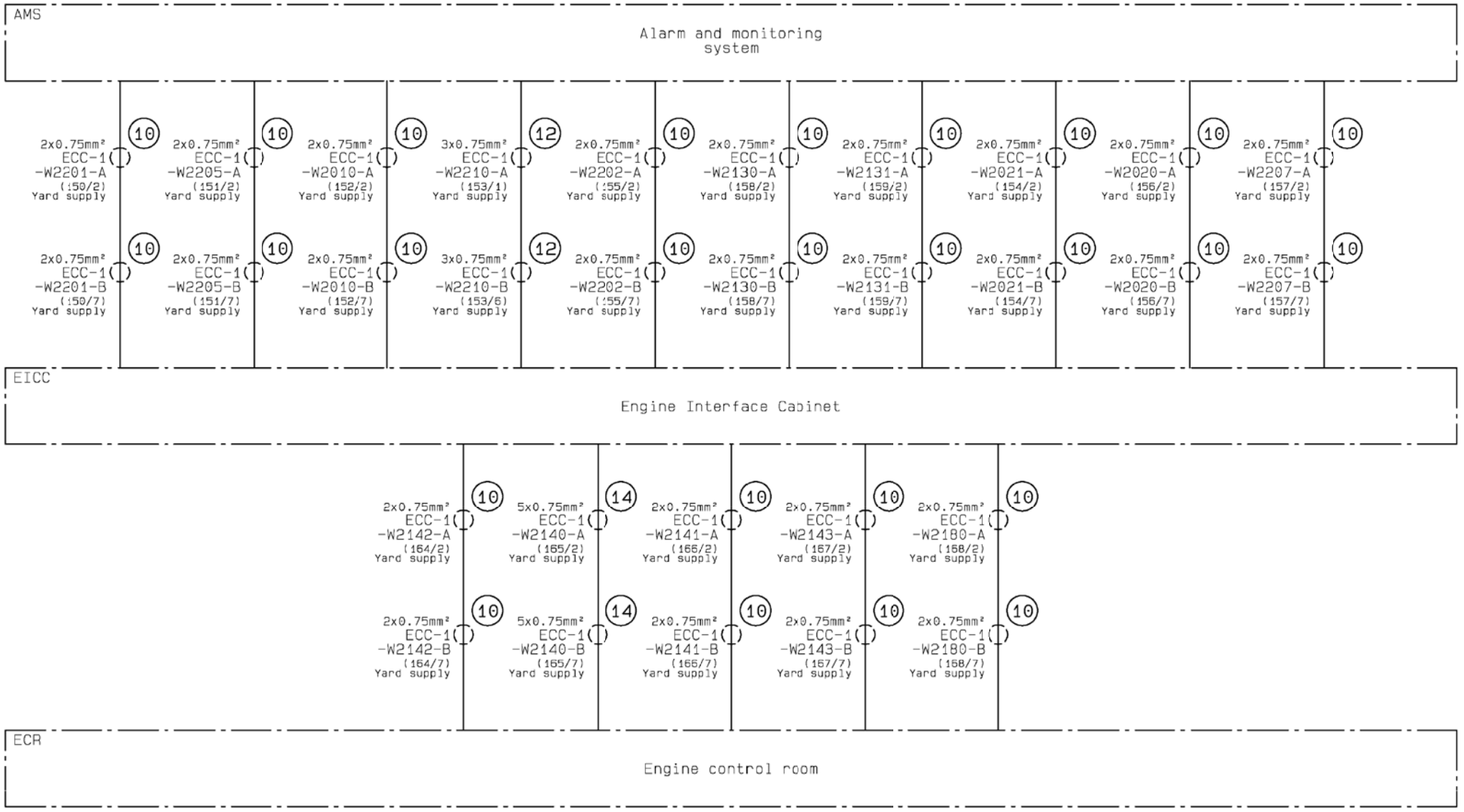
CAD Drawing - do not correct by hand - PCS Drawing



Interface to Engine Control Room cable overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		149(225)

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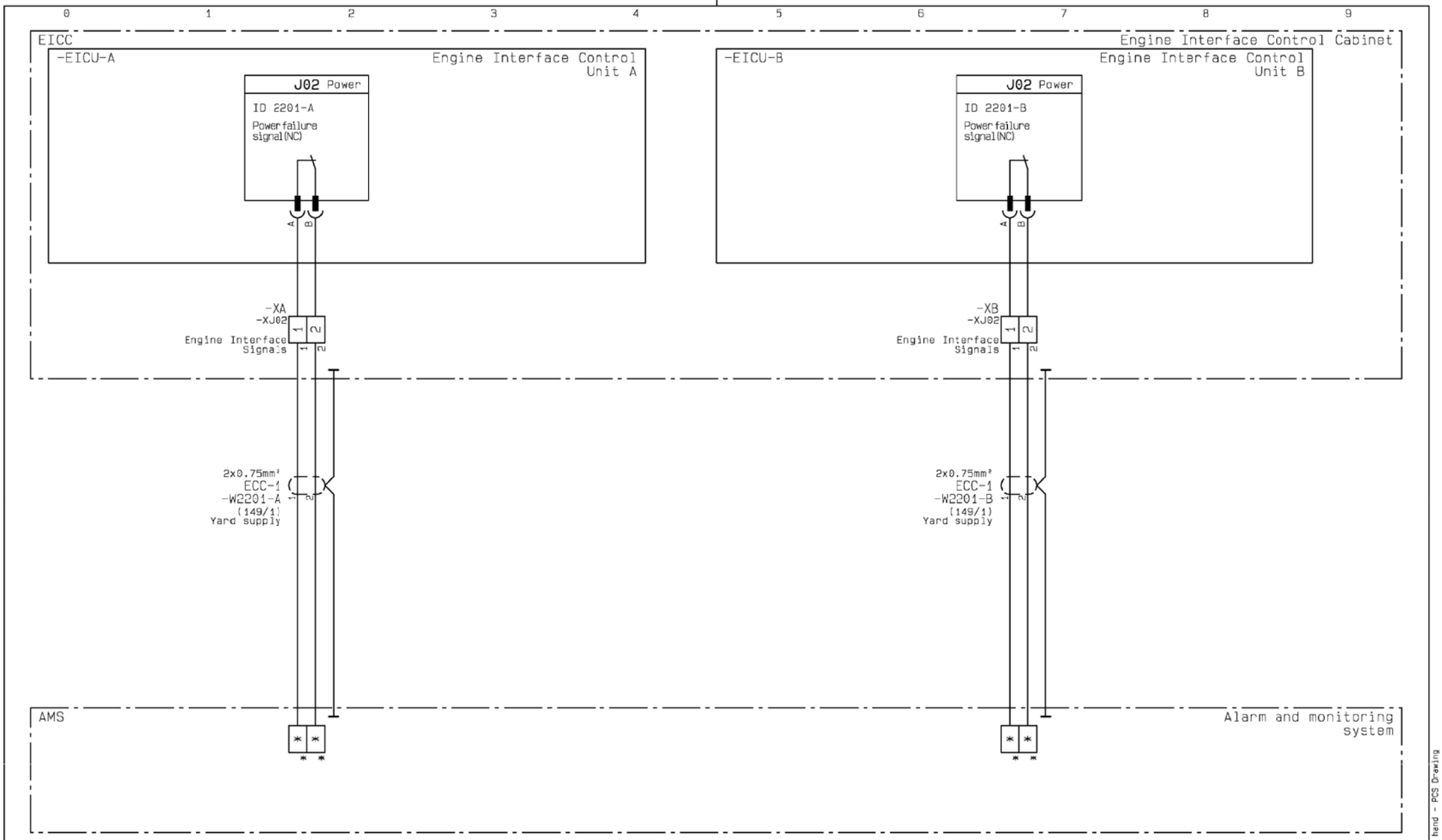
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



Power failure signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		150(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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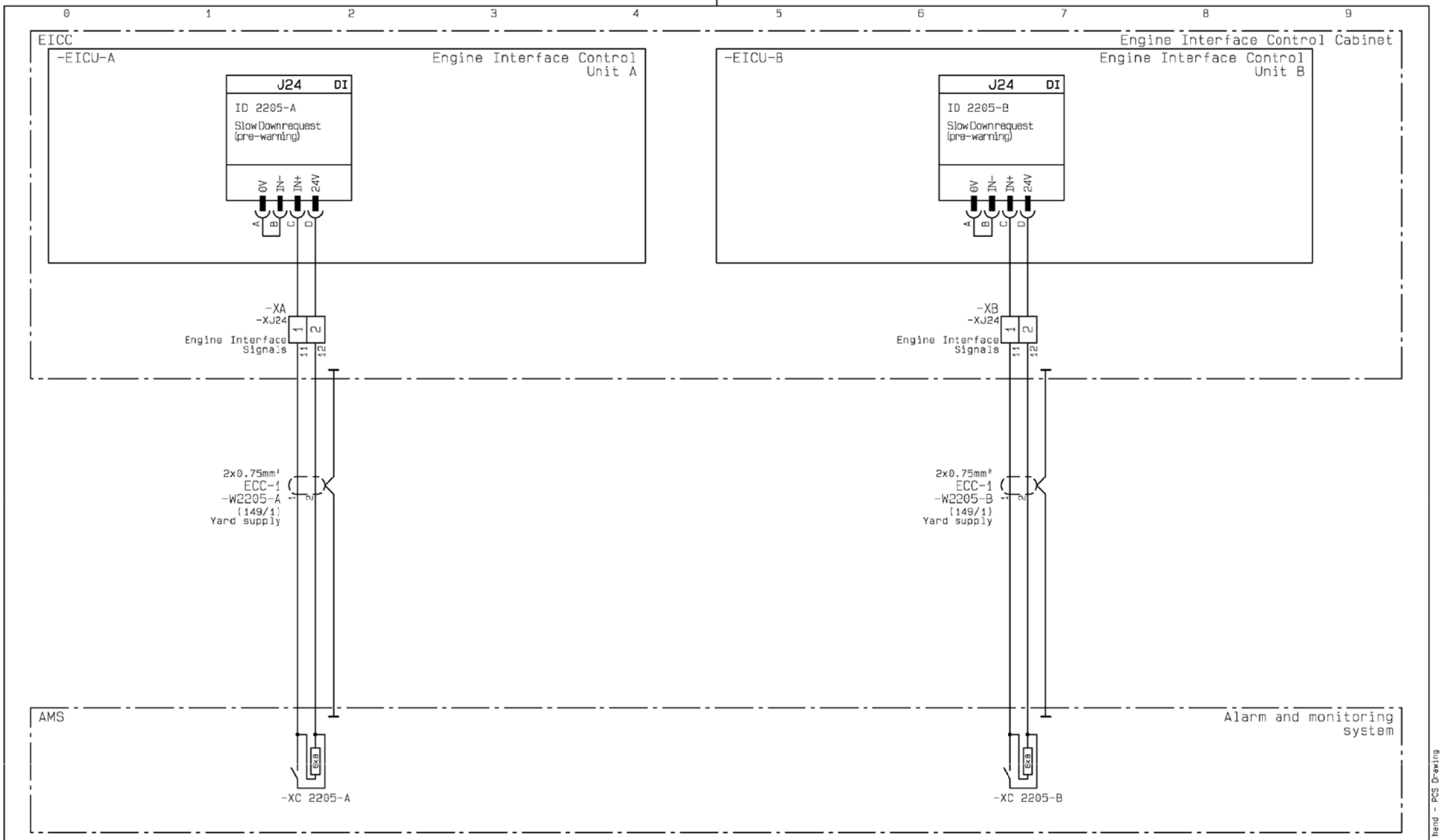
CAD Drawing - do not correct by hand - PCS Drawing



Slow down request (pre-warning) signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		151(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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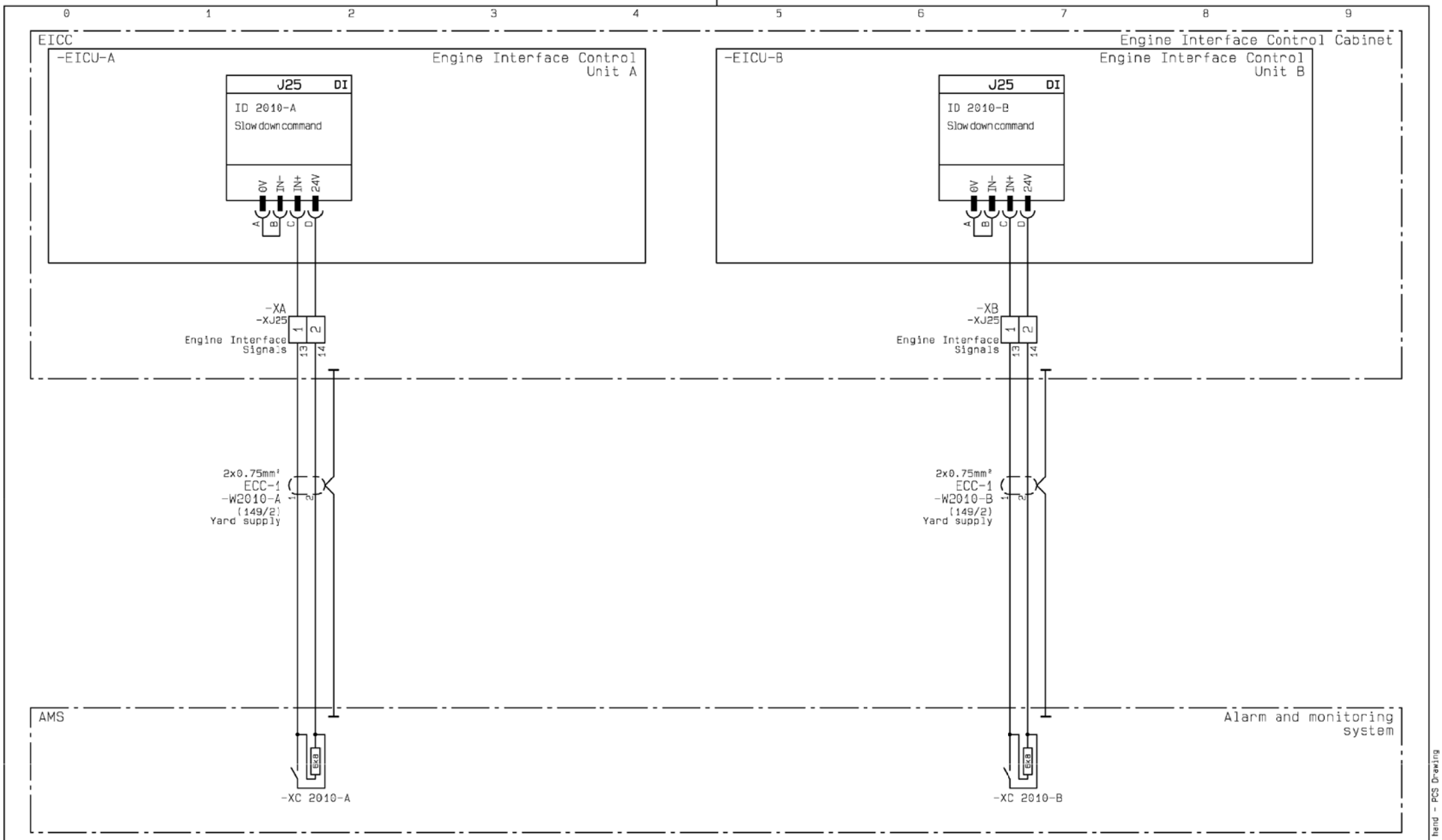
CAD Drawing - do not correct by hand - PCS Drawing



Slow down command signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		152(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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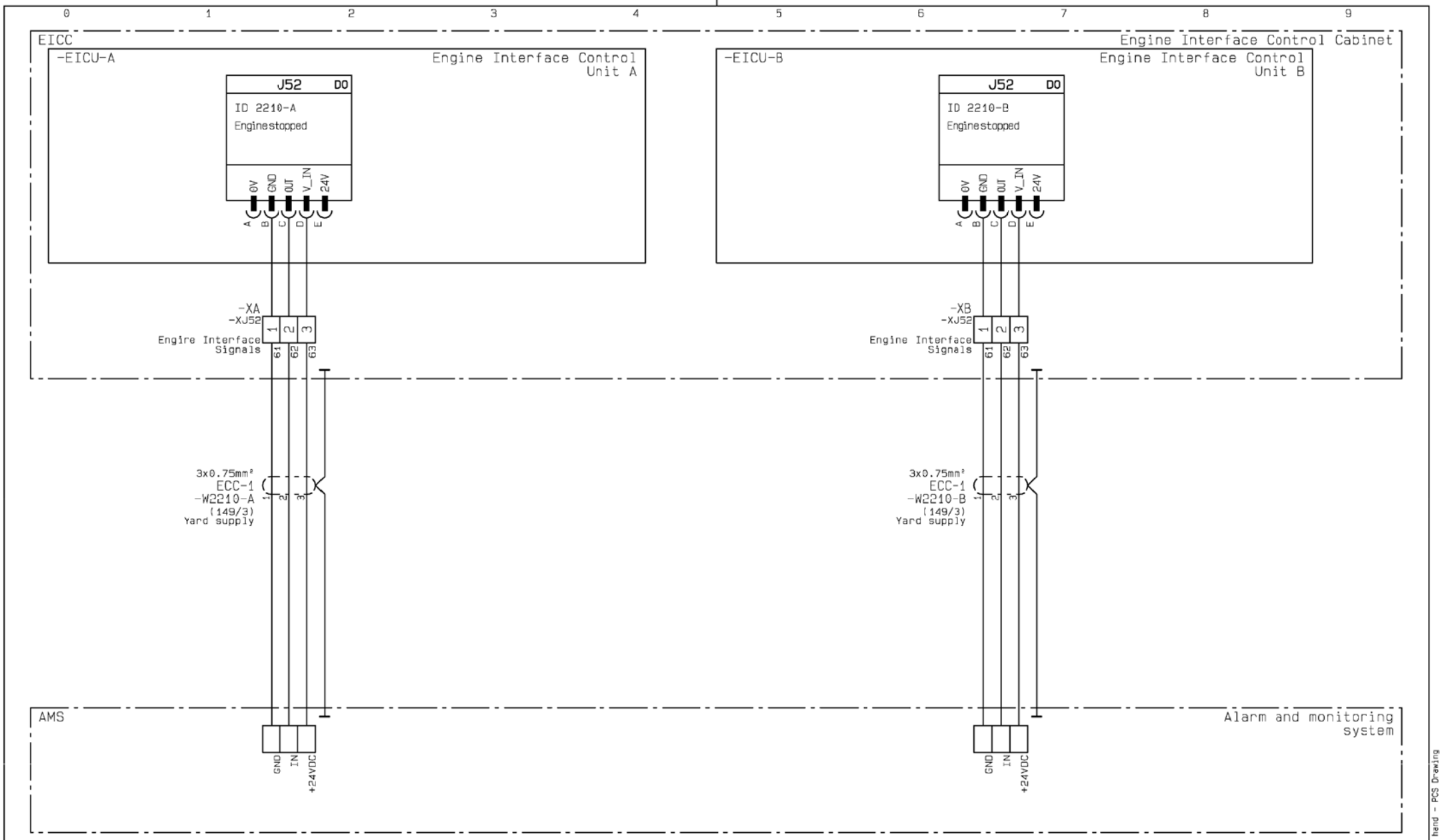
CAD Drawing - do not correct by hand - PCS Drawing



Engine stopped signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		153(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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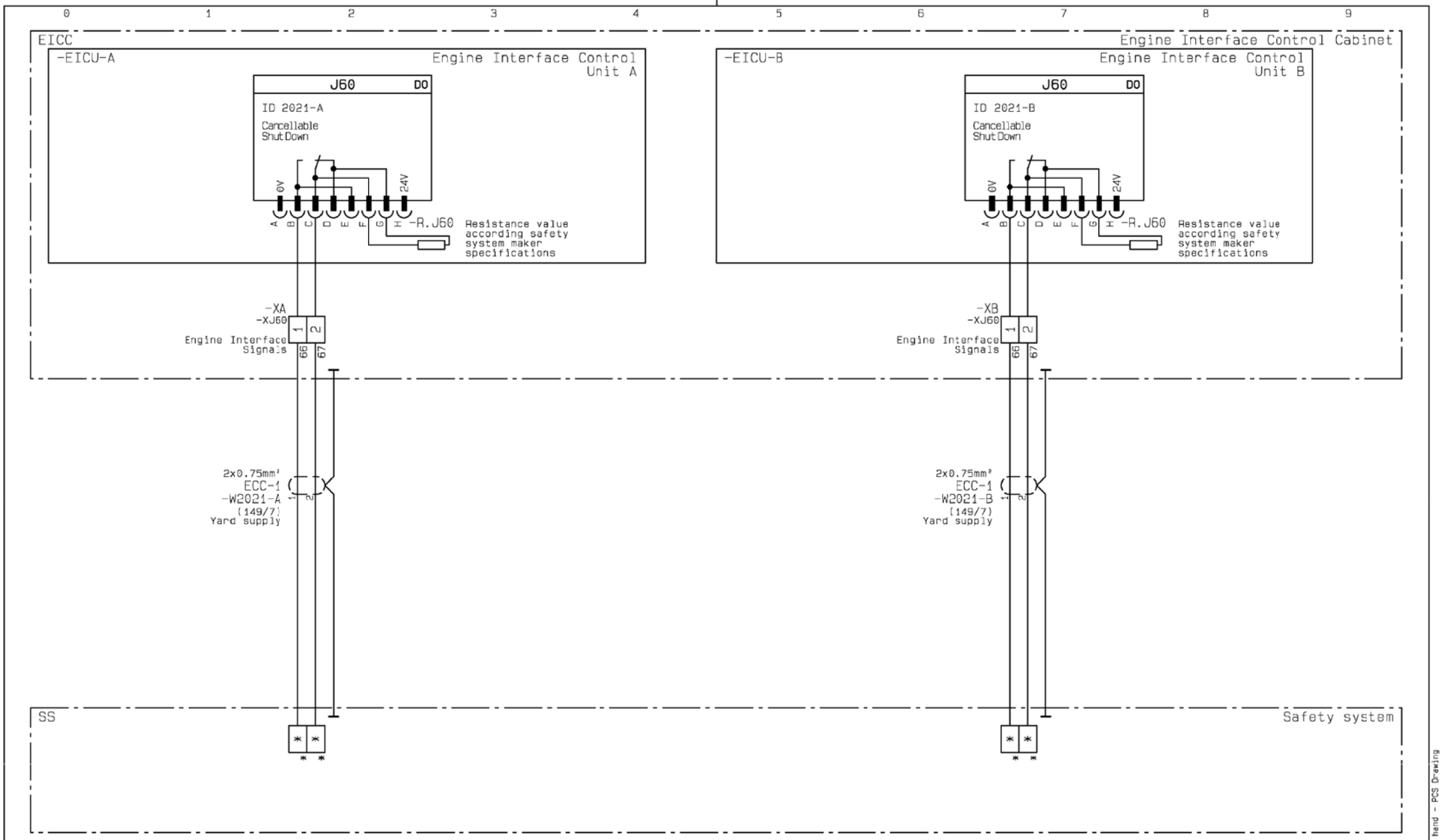
CAD Drawing - do not correct by hand - PCS Drawing



Cancellable shut down signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		154(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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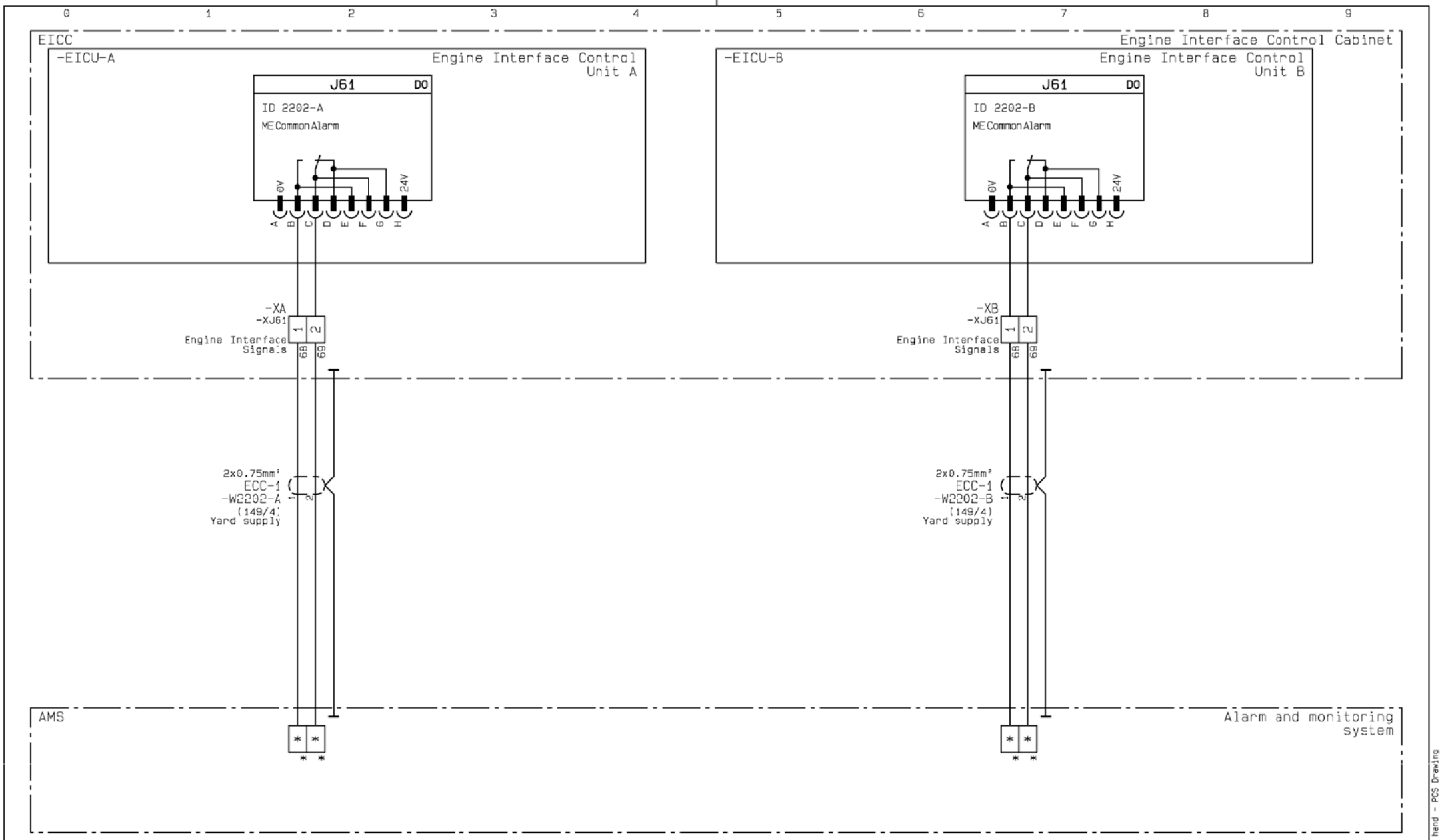
CAD Drawing - do not correct by hand - PCS Drawing



ME common alarm signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		155(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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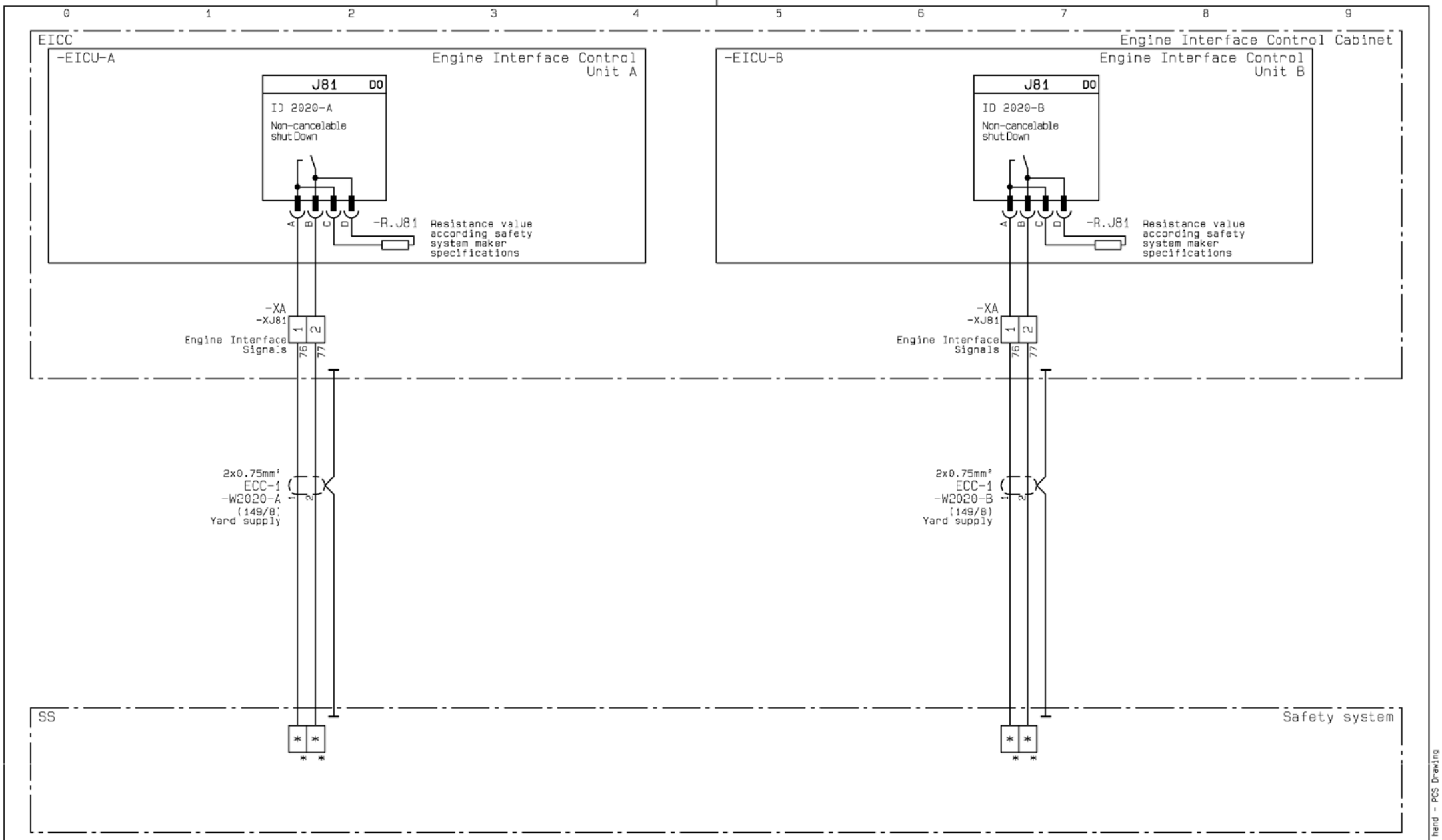
CAD Drawing - do not correct by hand - PCS Drawing



Non-cancelable shut down signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		156(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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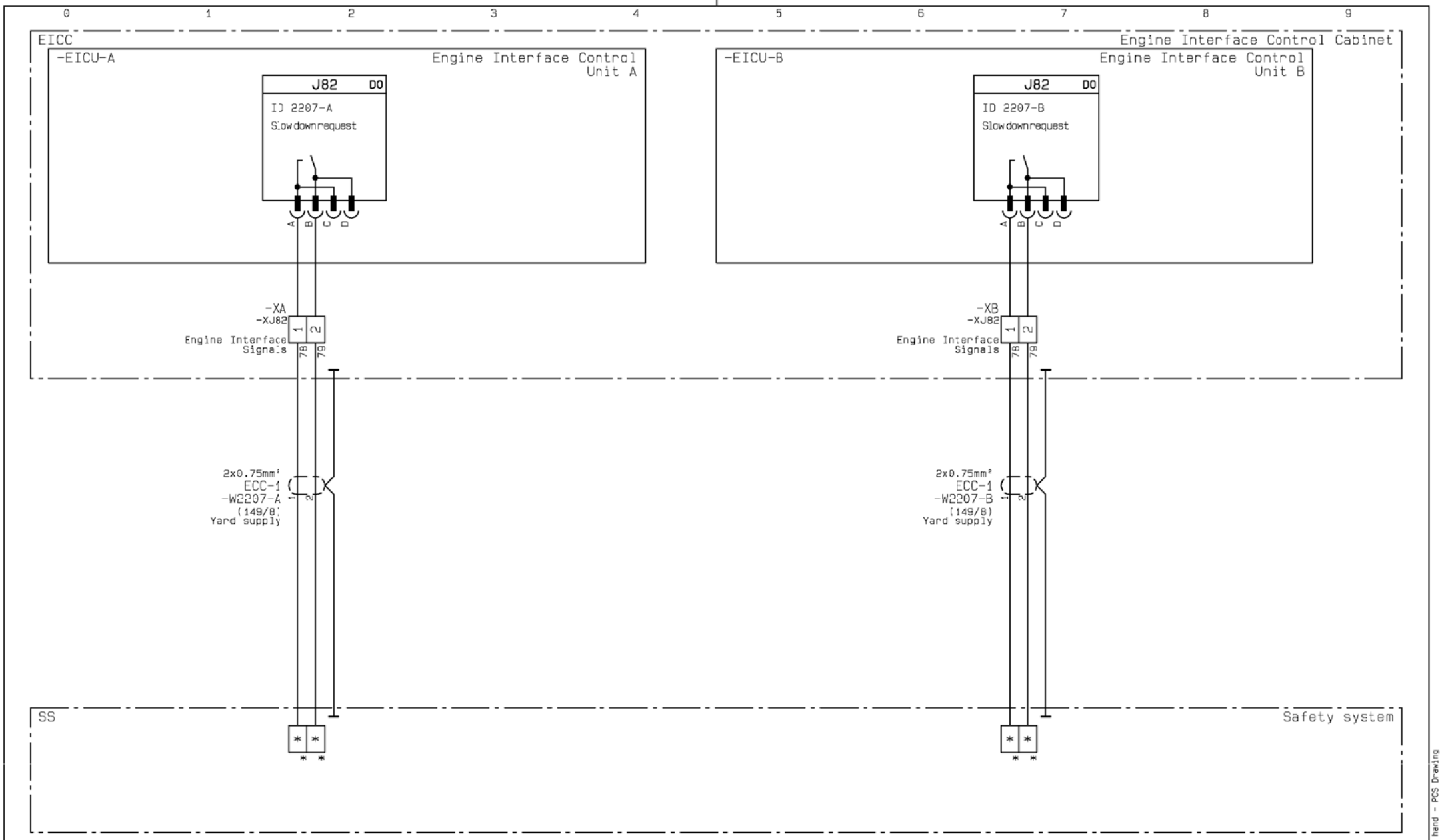
CAD Drawing - do not correct by hand - PCS Drawing



Slow down request signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		157(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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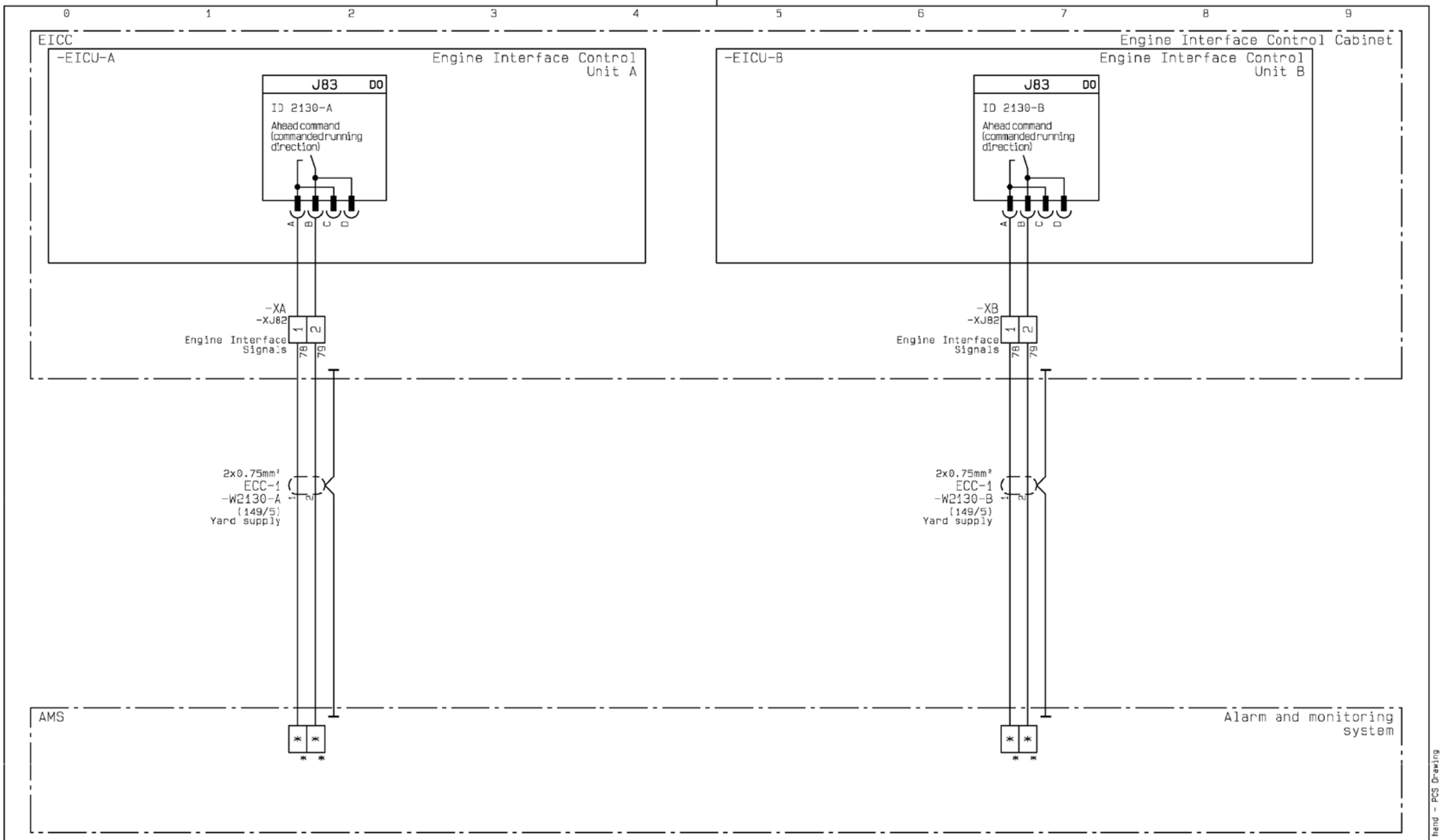
CAD Drawing - do not correct by hand - PCS Drawing



Ahead command signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		158(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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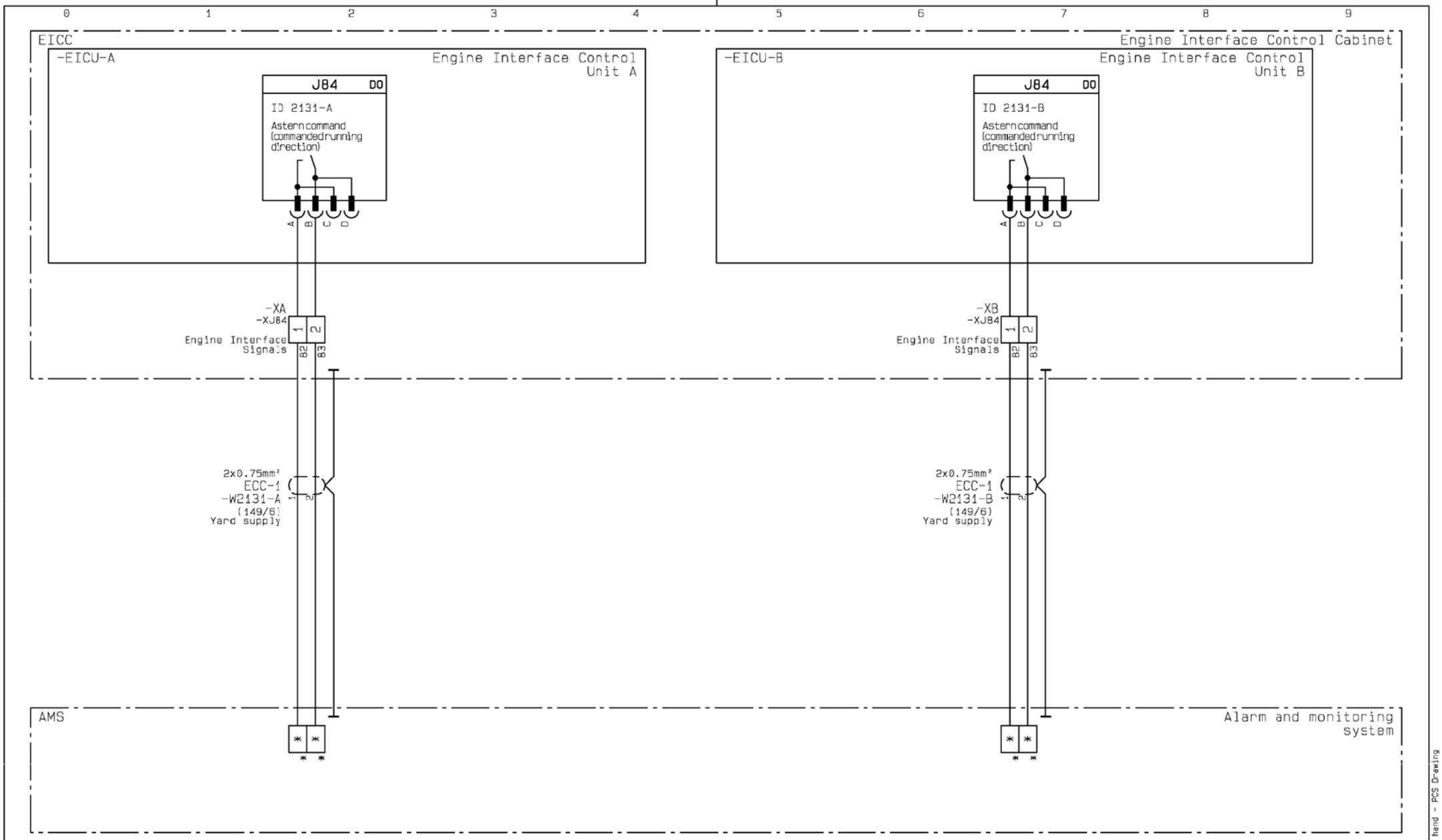
CAD Drawing - do not correct by hand - PCS Drawing



Astern command signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		159(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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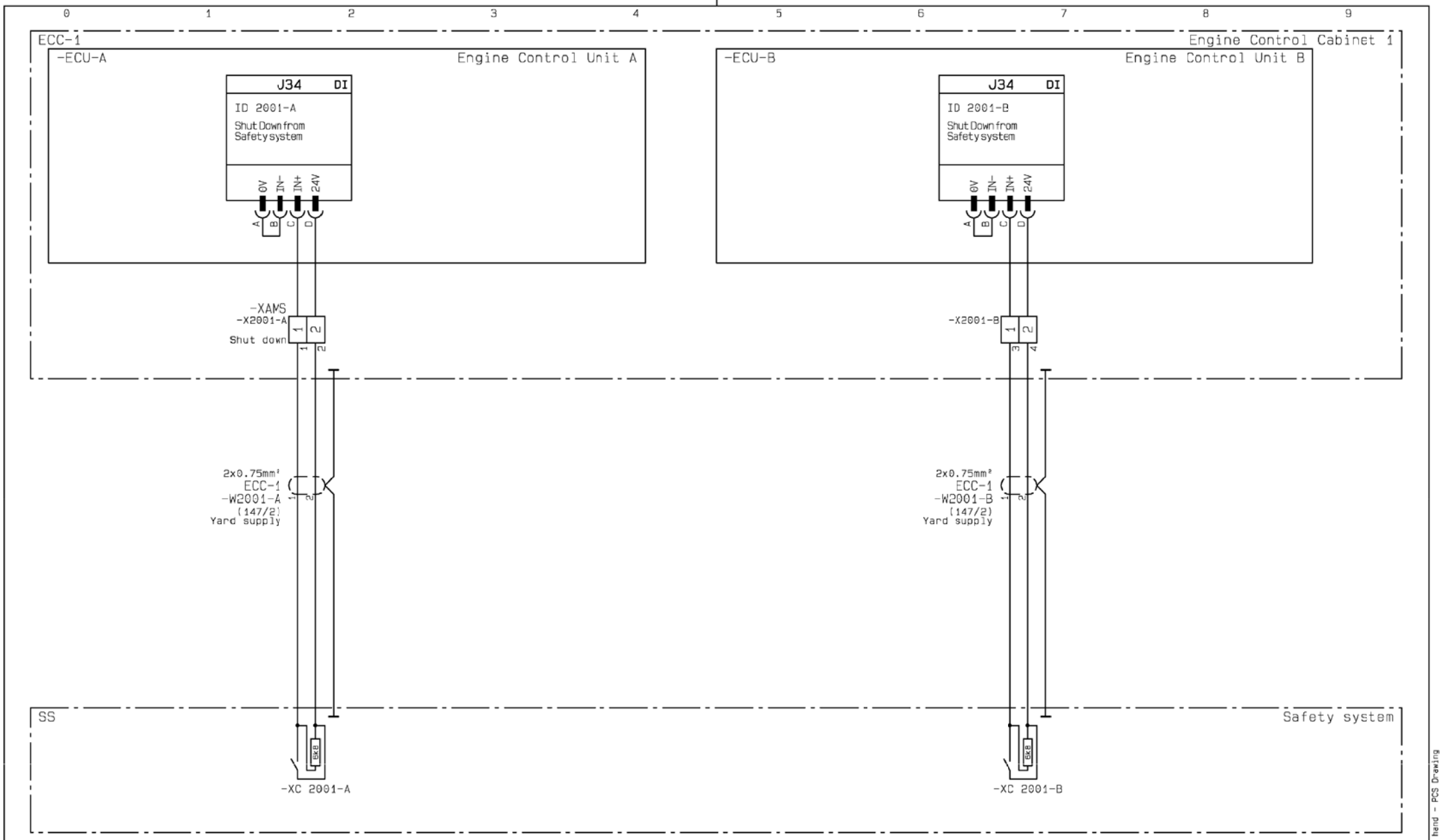
CAD Drawing - do not correct by hand - PCS Drawing



Shut down from safety system signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		160(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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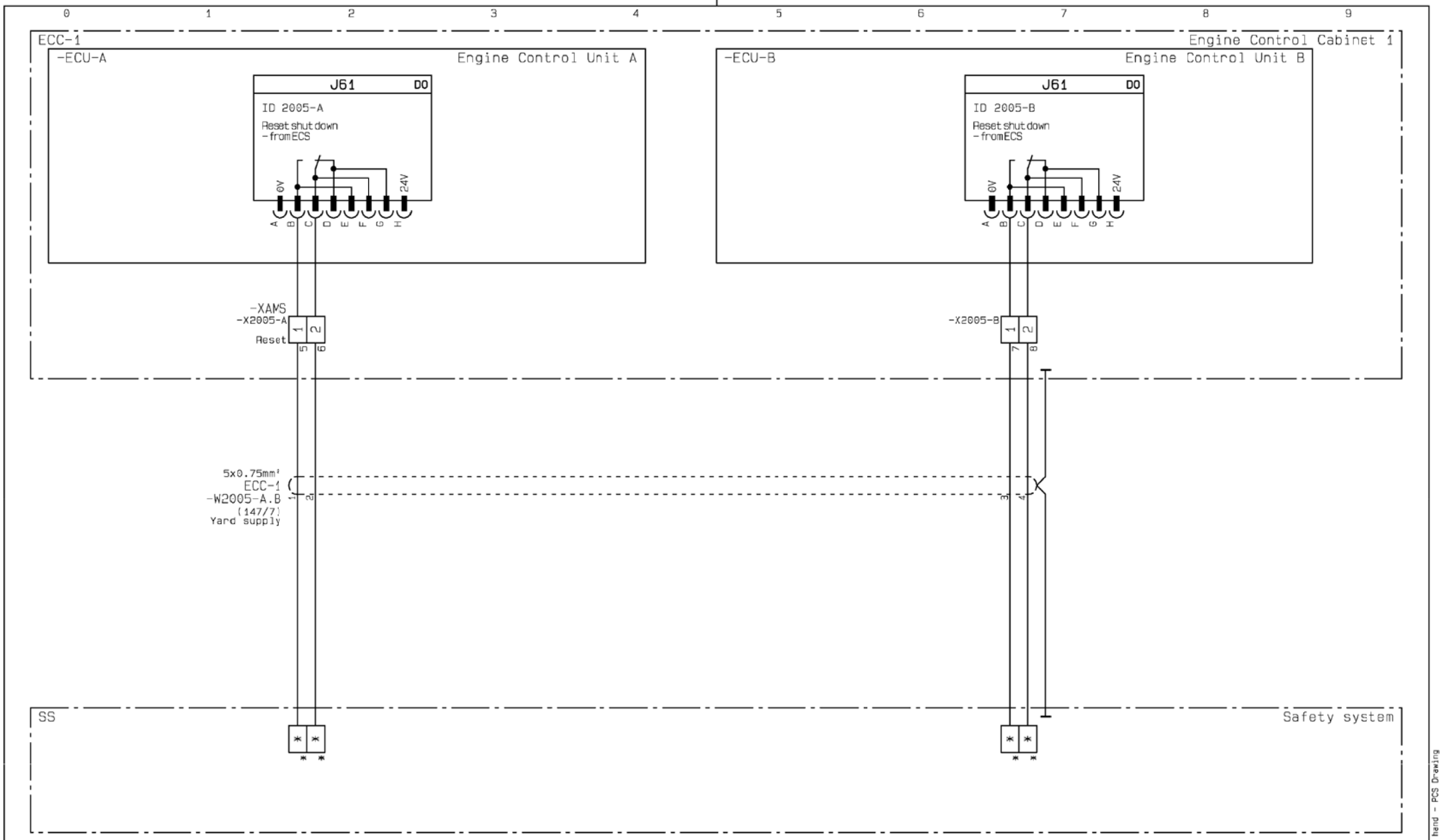
CAD Drawing - do not correct by hand - PCS Drawing



Reset shut down from ECS signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		161(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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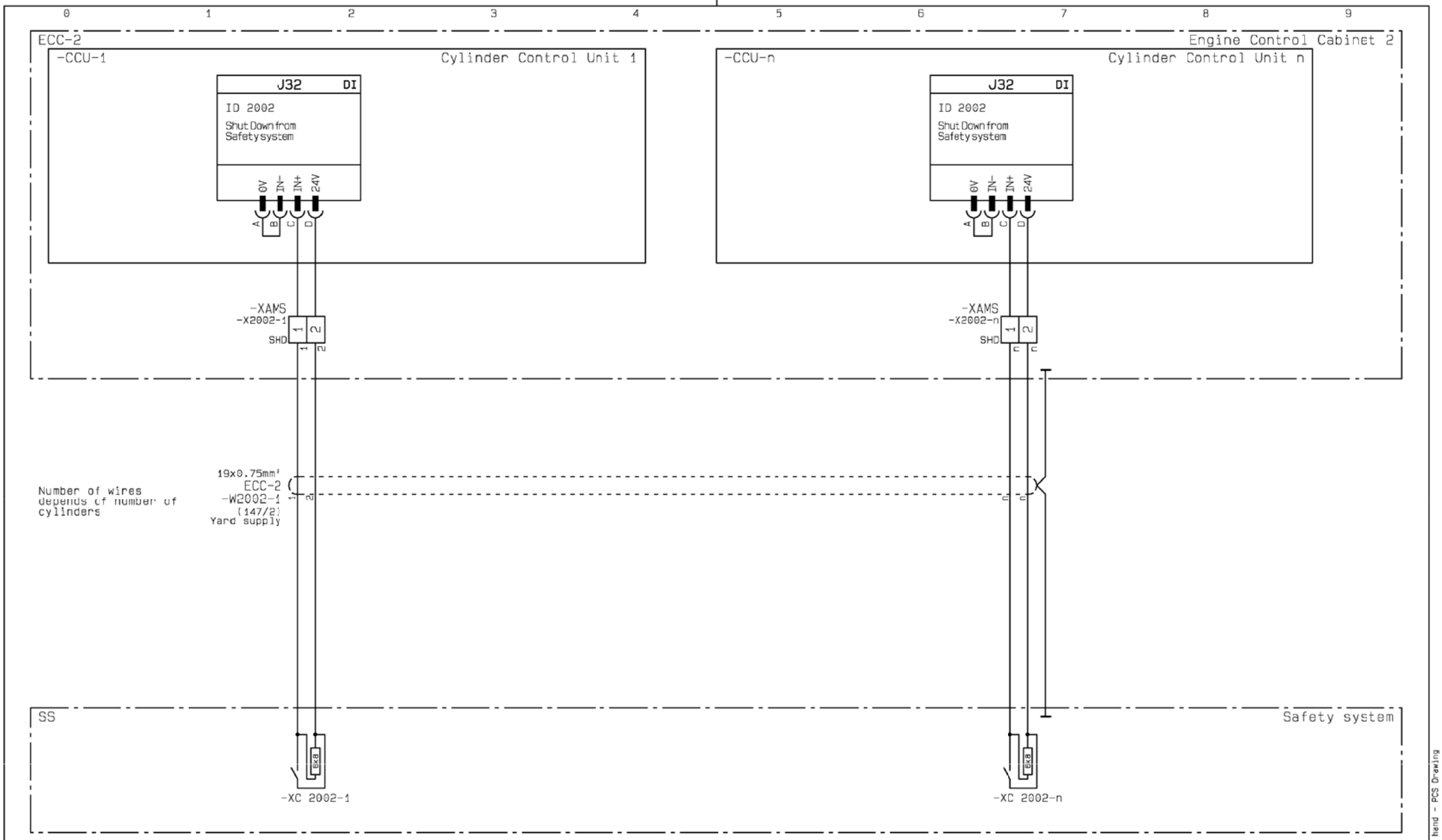
CAD Drawing - do not correct by hand - PCS Drawing



Shut down from safety system to cylinder control signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		162(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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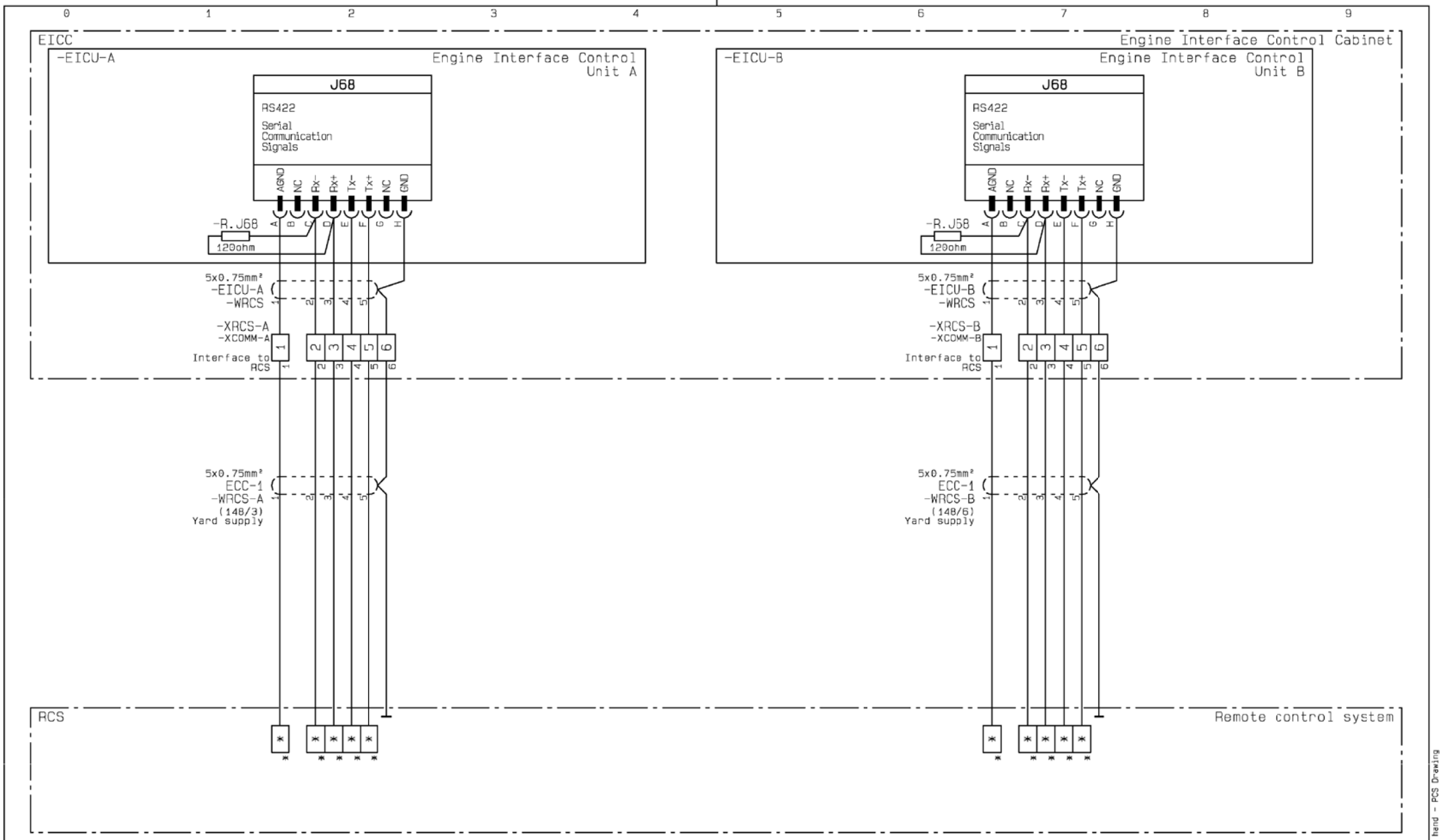
CAD Drawing - do not correct by hand - PCS Drawing



Serial communication signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		163(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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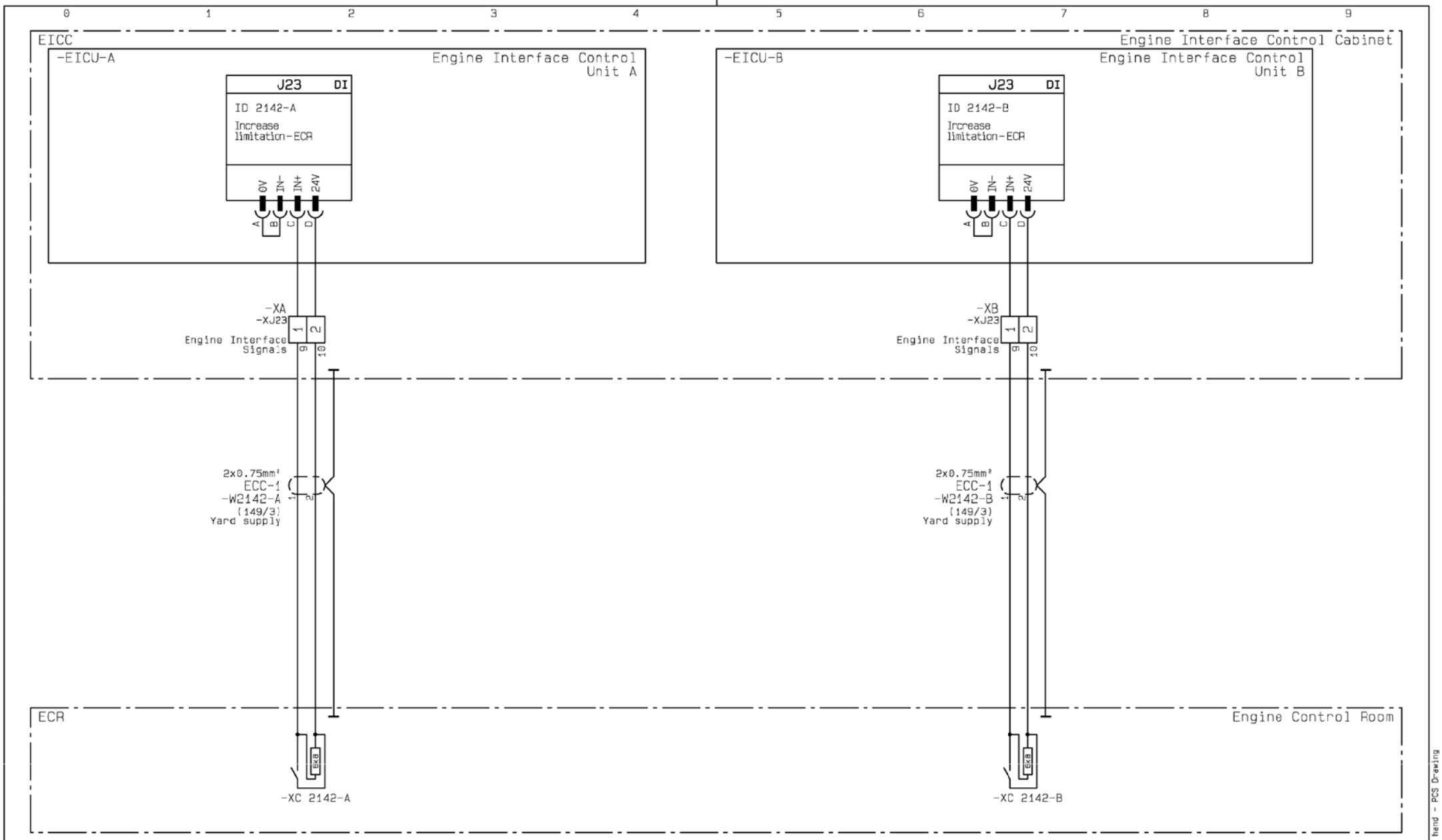
CAD Drawing - do not correct by hand - PCS Drawing



Increase limitation signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		164(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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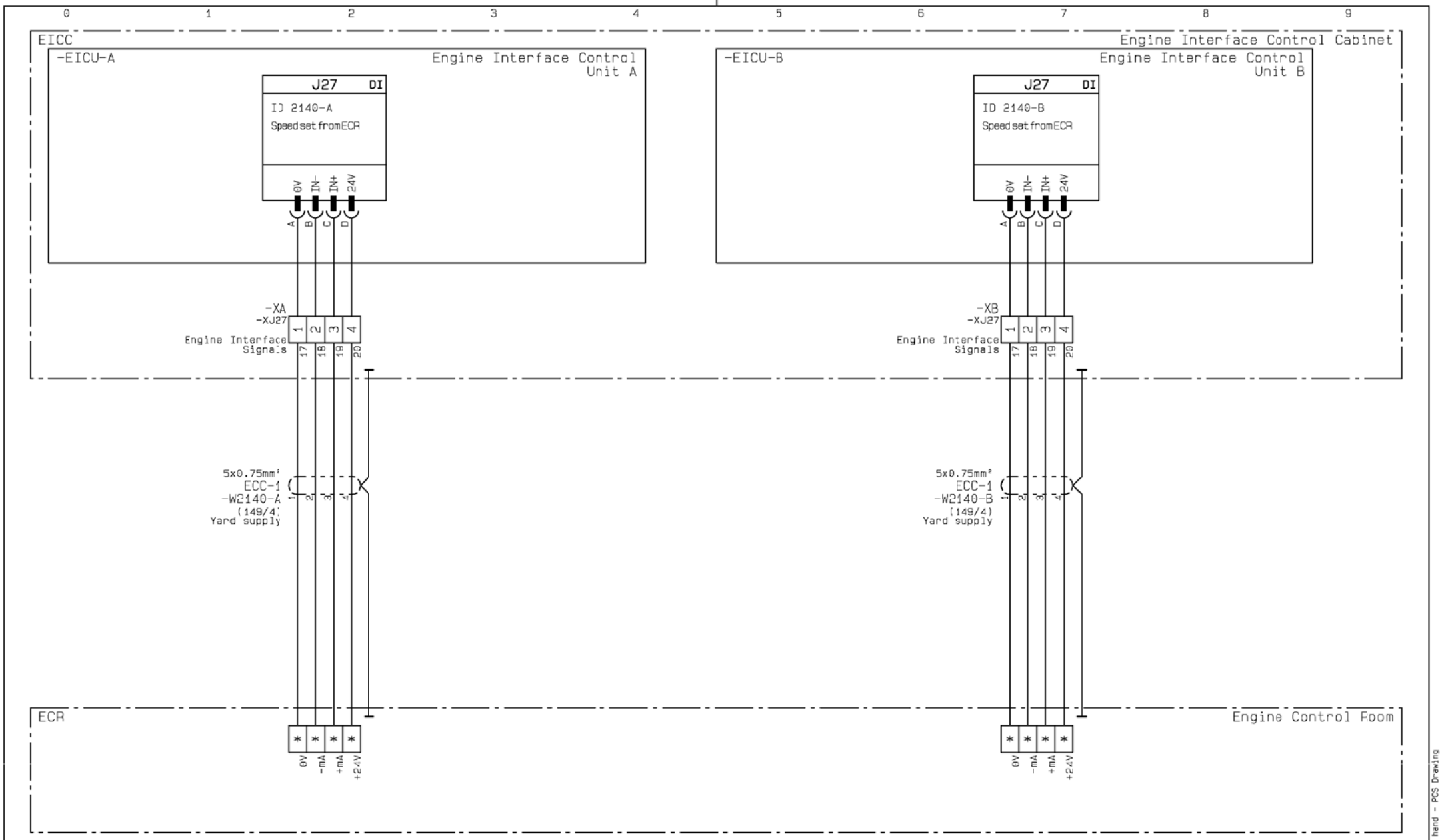

Speed set from ECR signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		165(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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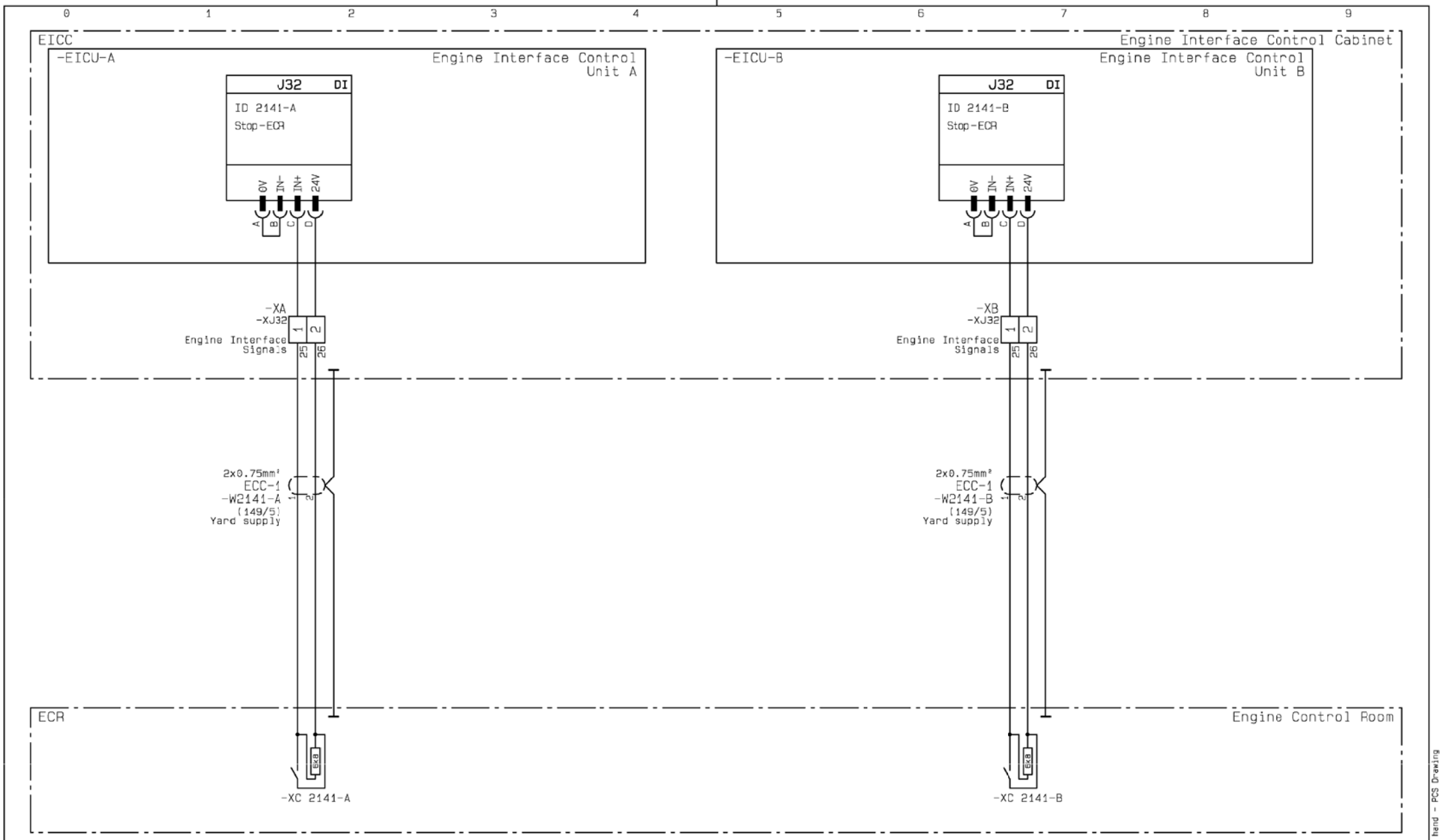
CAD Drawing - do not correct by hand - PCS Drawing



Stop from ECR signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		166(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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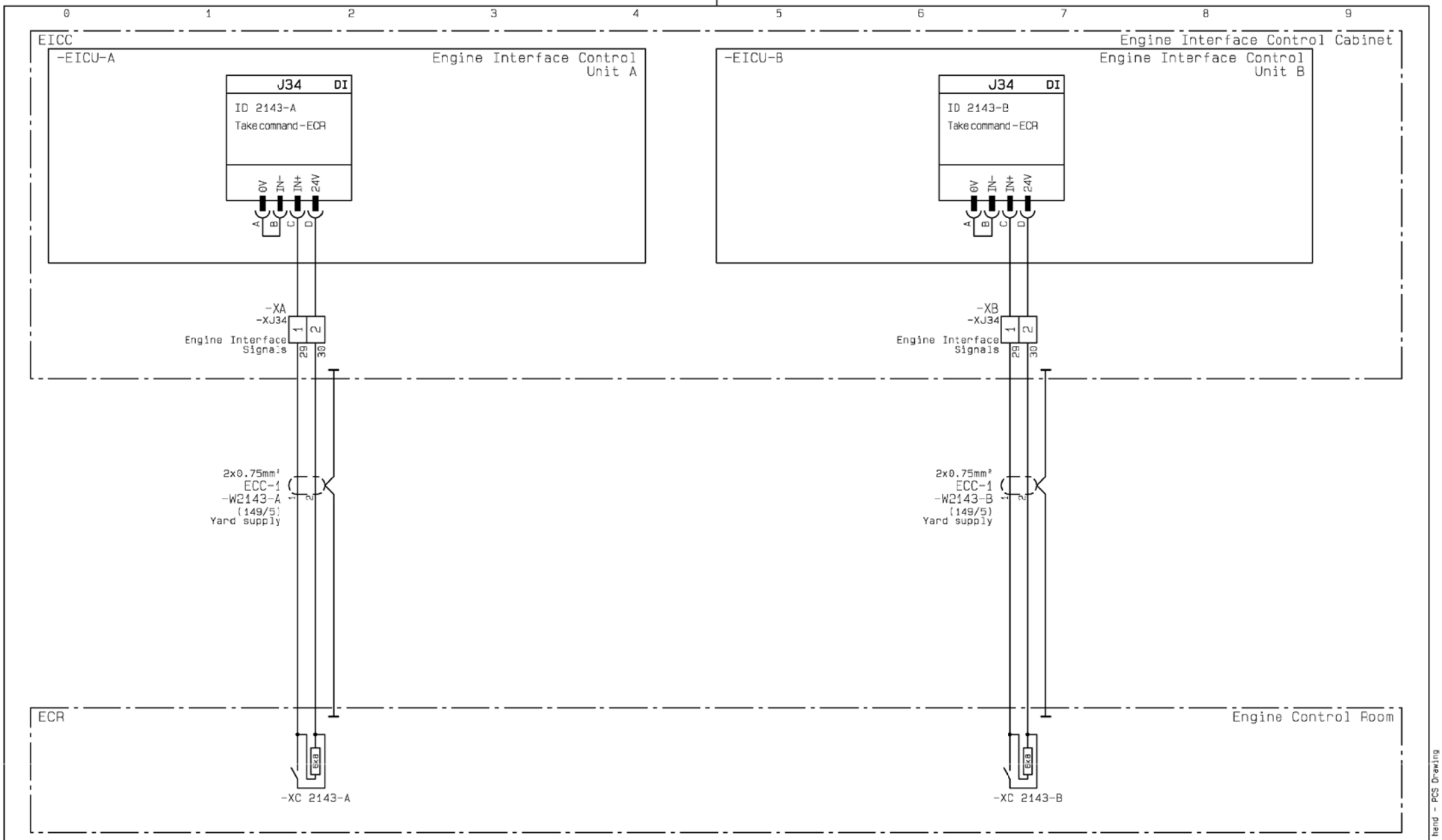
CAD Drawing - do not correct by hand - PCS Drawing



Take command signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		167(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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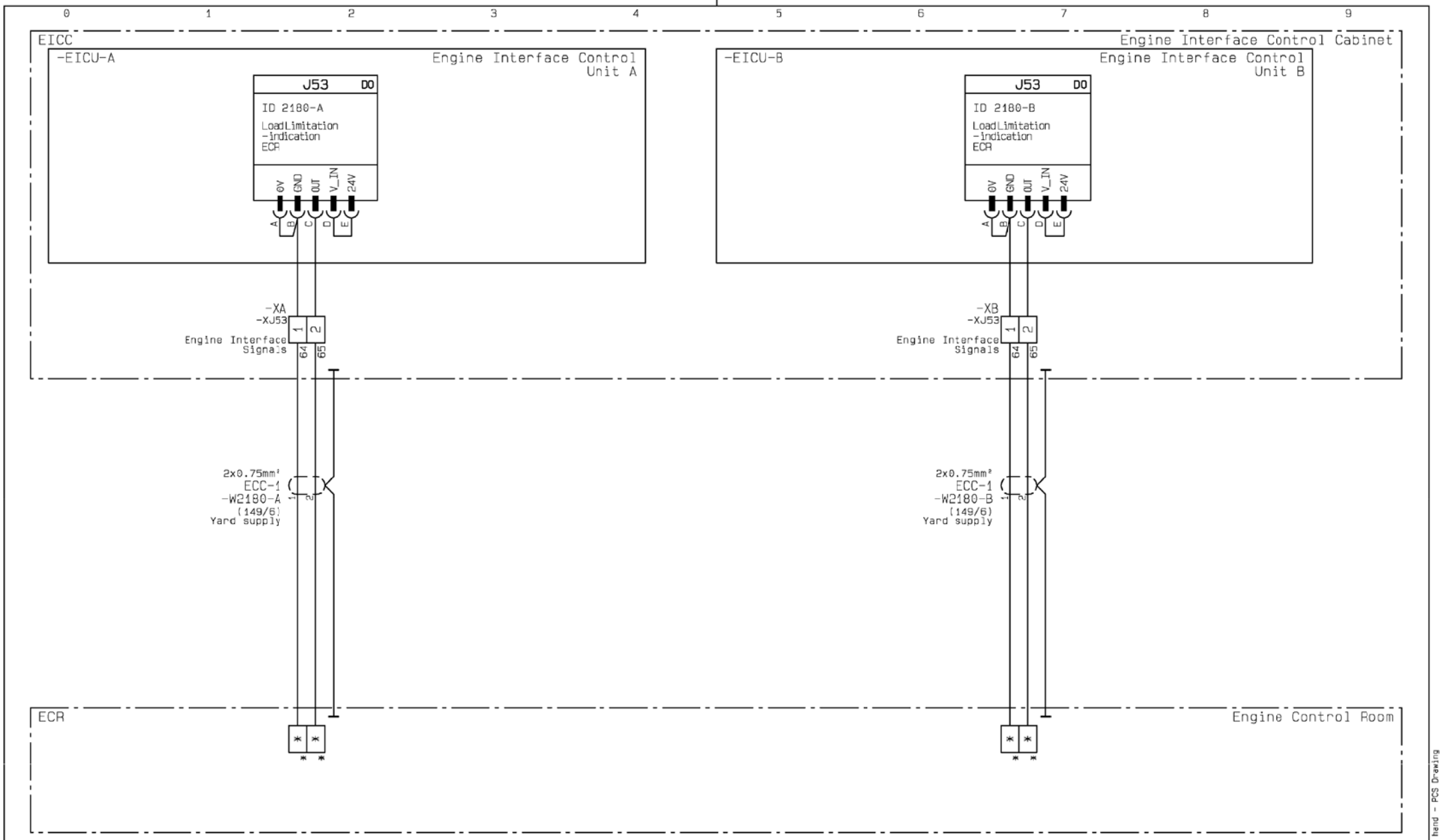
CAD Drawing - do not correct by hand - PCS Drawing



Load limitation indication for ECR signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		168(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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OPTIONAL SYSTEMS

OPTIONAL SYSTEMS	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~			Projection:	Page No.: 169(225)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7CYL			Final User Ident. No.: 4H-12760	

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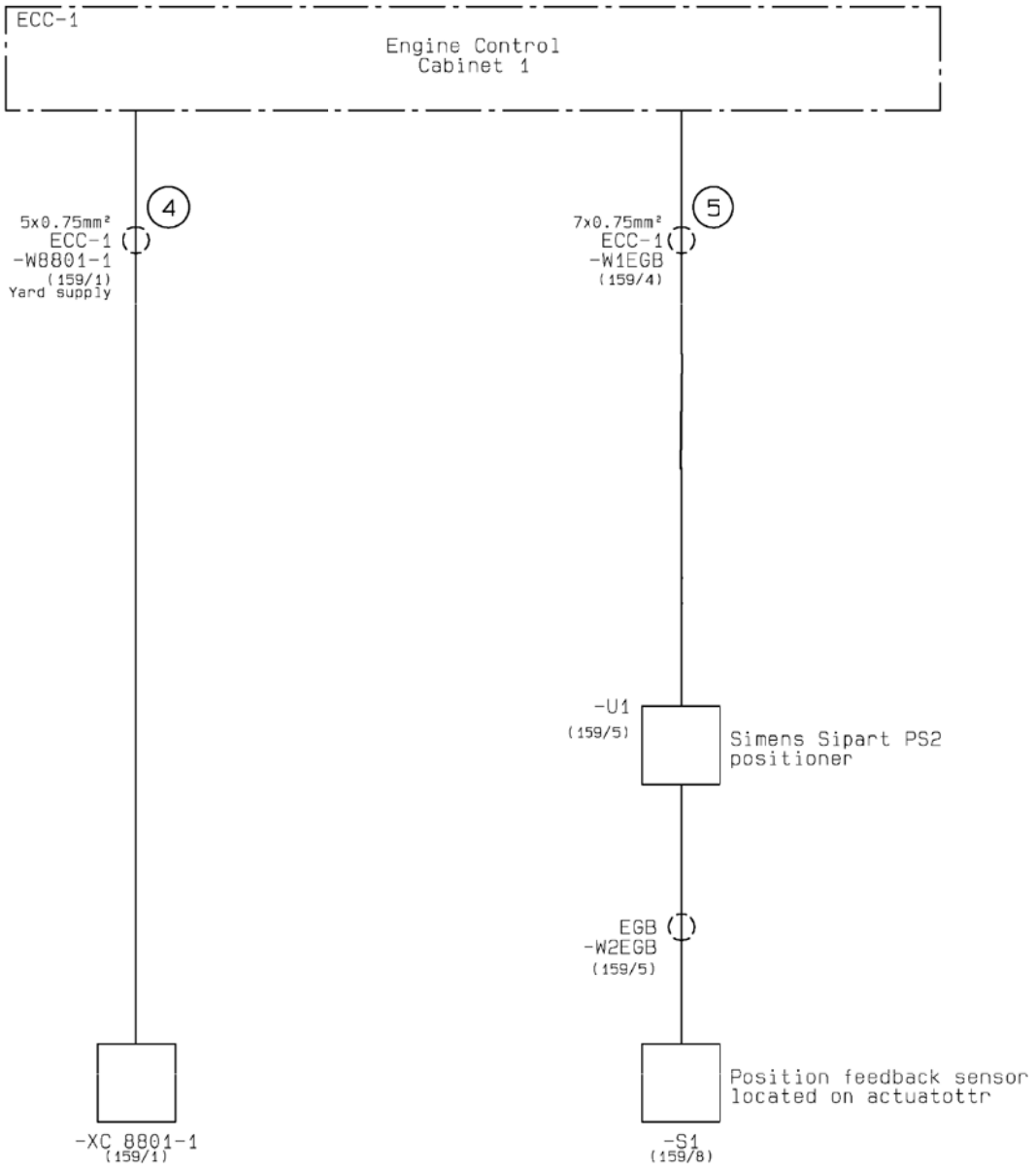

Interface to Exhaust Gas By-pass Cable Overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5-12 CYL~~		170(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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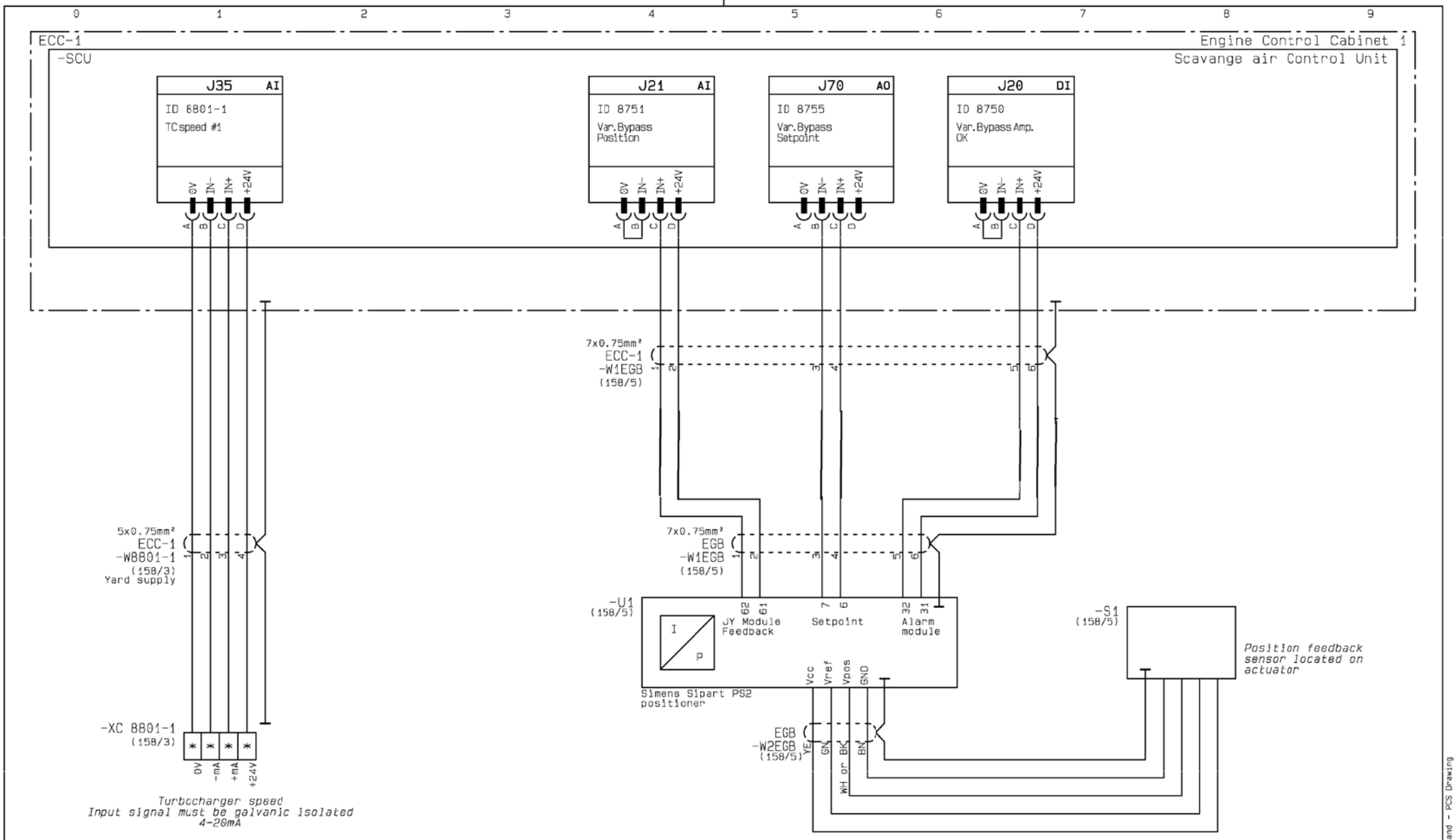

Exhaust Gas By-pass I/O

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20121127	CAHV	JYA	Z3	ACW TSA-A & TSA-B added		08

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		172(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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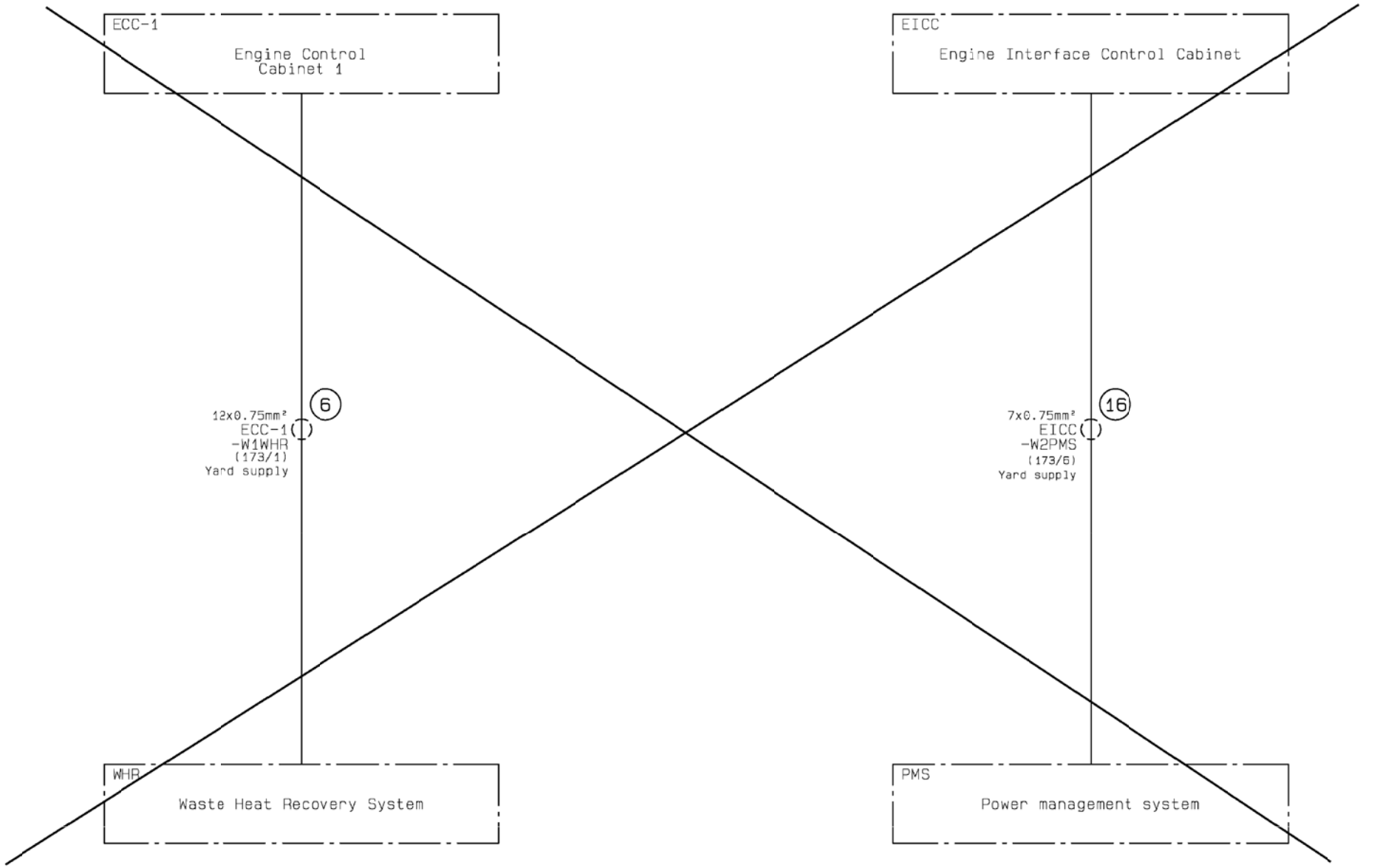
CAD Drawing - do not correct by hand - PCS Drawing



Interface to Waste Heat Recovery Cable Overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		172(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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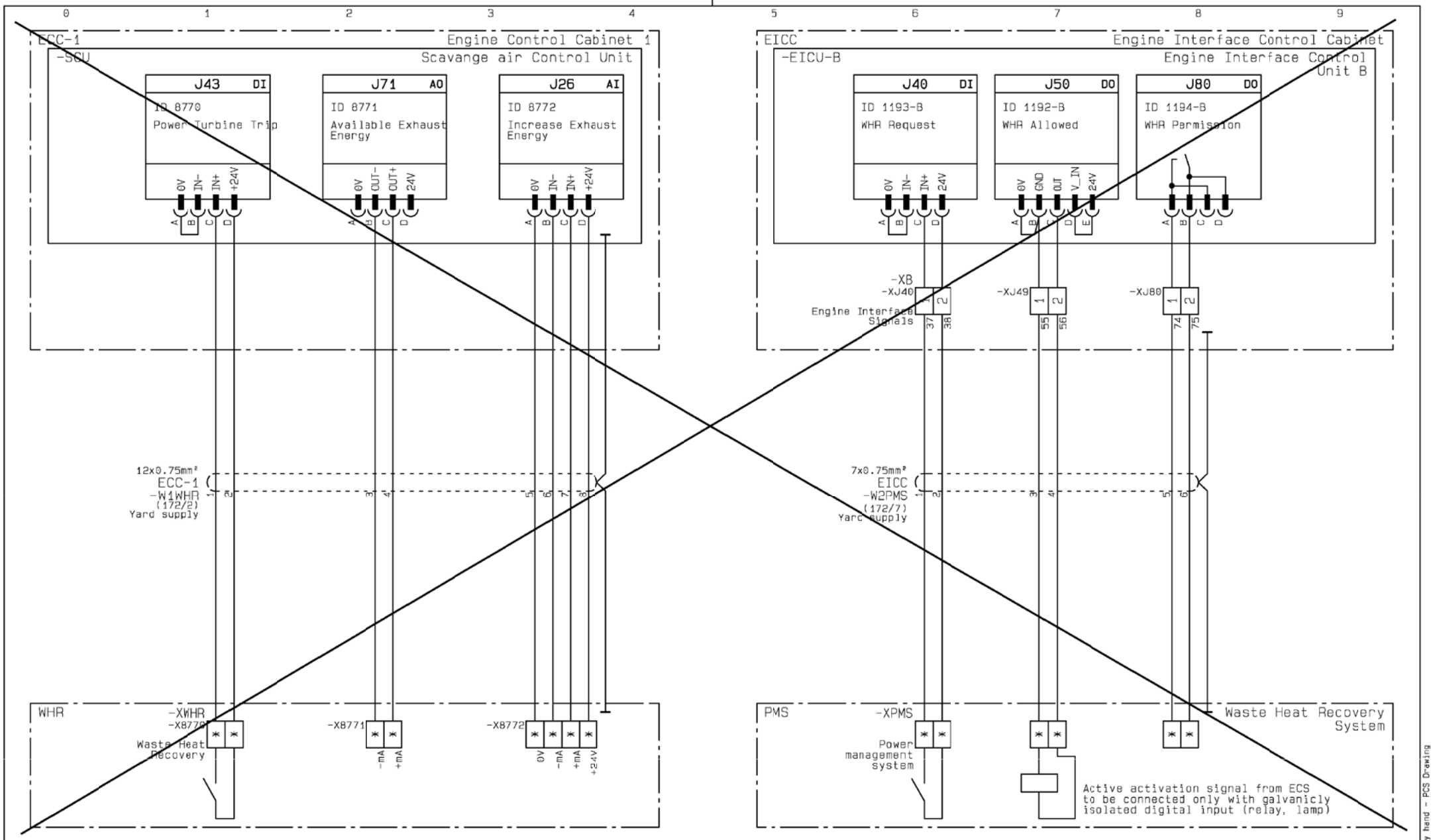
CAD Drawing - do not correct by hand - PCS Drawing



Waste Heat Recovery I/O

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		173(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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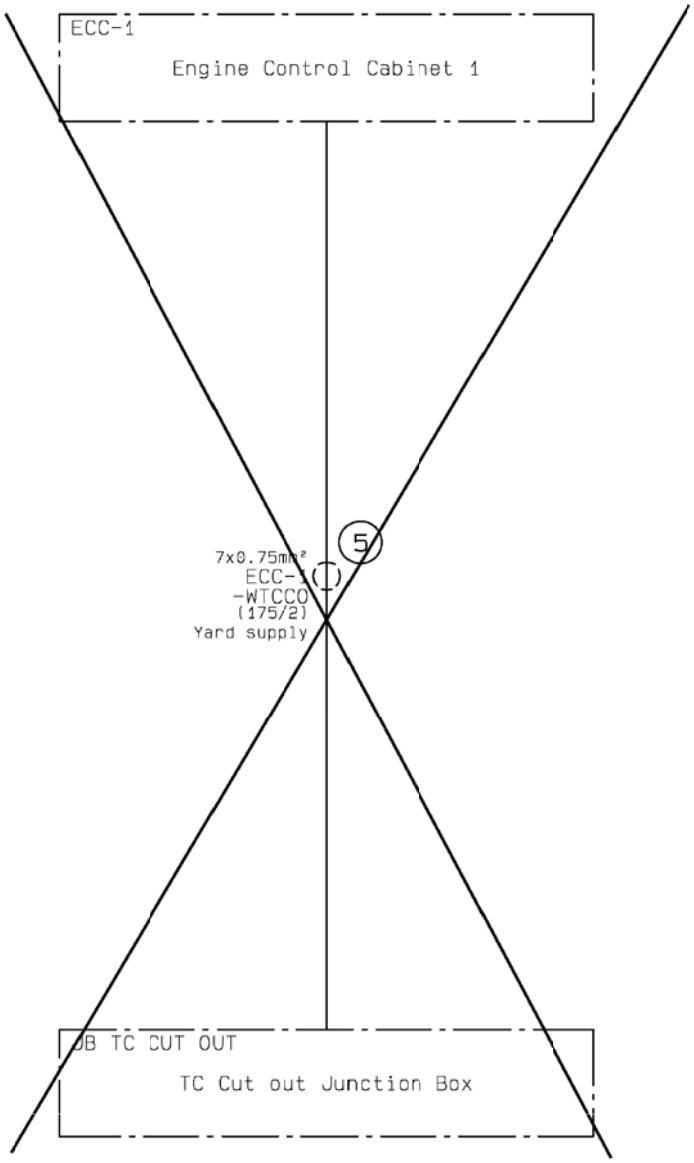
CAD Drawing - do not correct by hand - PCS Drawing



TC-Cut Out Cable Overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		174(225)

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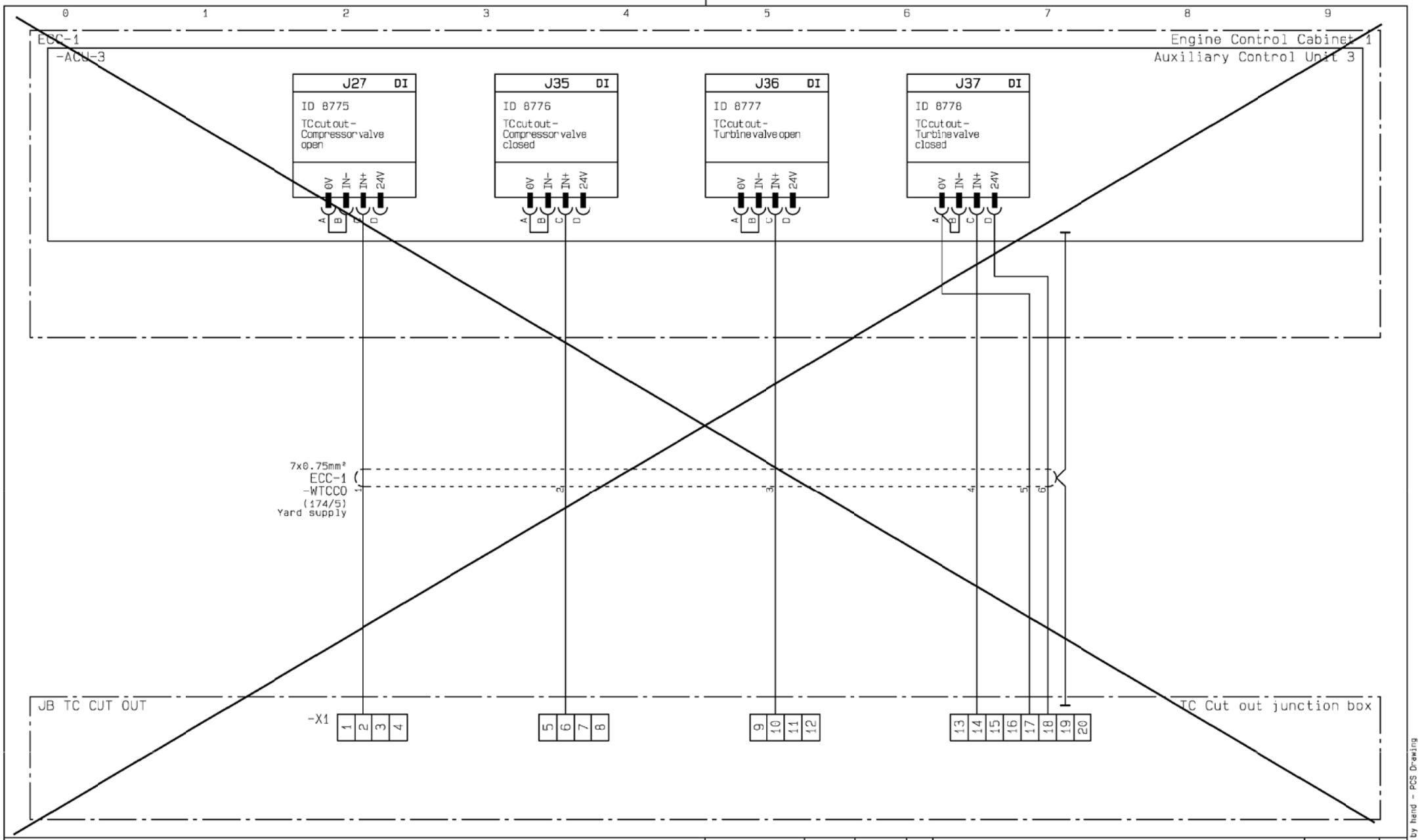
Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing



TC-Cut Out interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		175(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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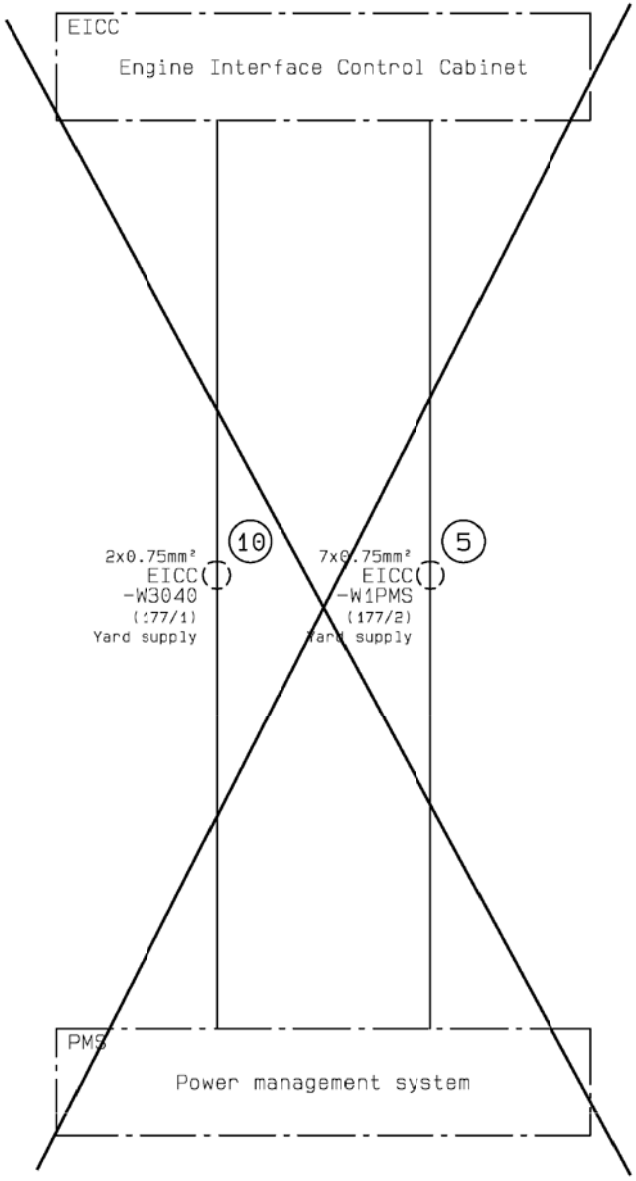

Shaft generator Cable Overview

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		176(225)

Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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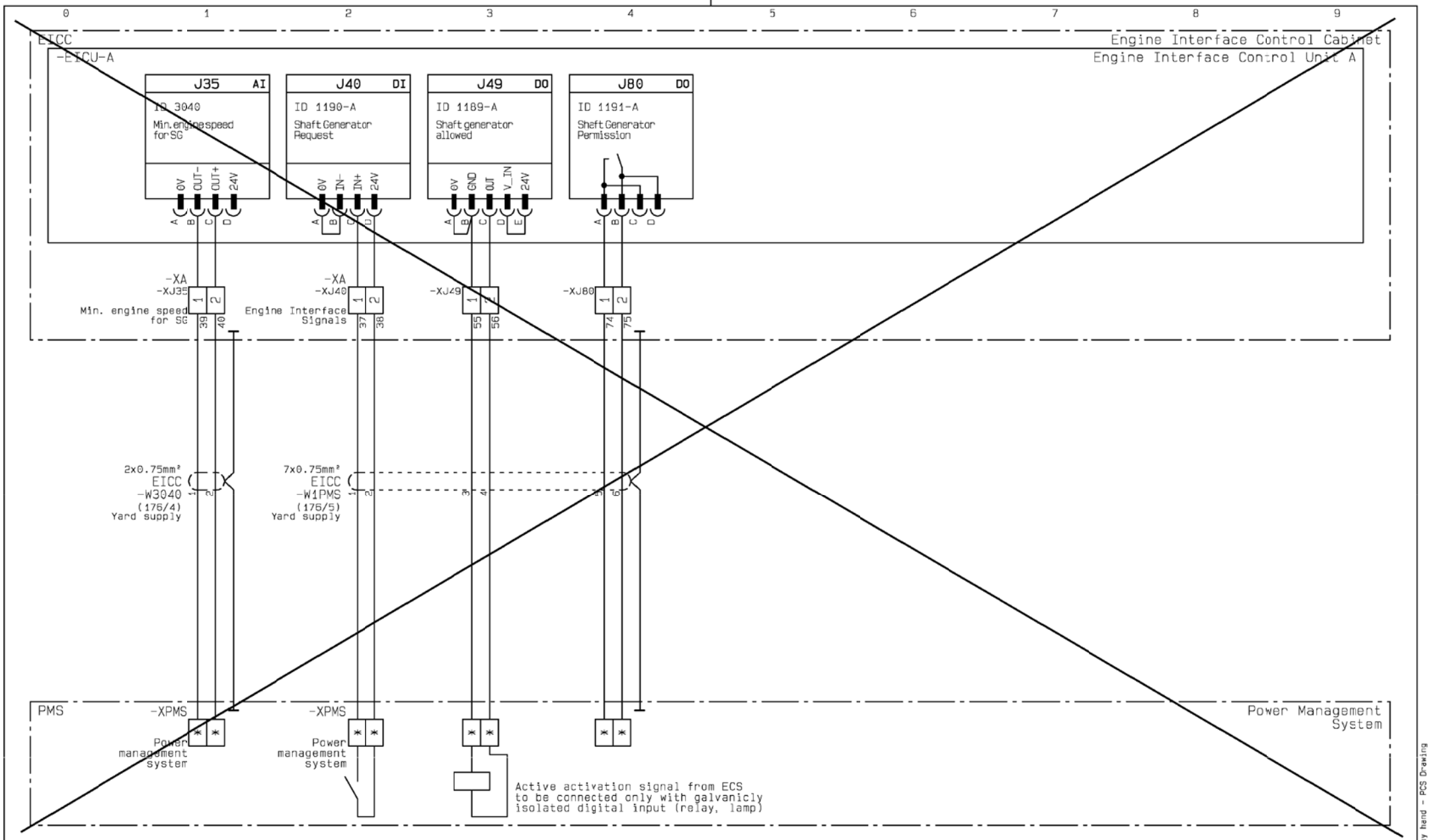
CAD Drawing - do not correct by hand - PCS Drawing



Shaft generator interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	~~ME ECS 5 12 CYL~~		177(225)

Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

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ENGINE BUILDER CABLE LIST

ENGINE BUILDER CABLE LIST	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 178(225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-ACU-1-WHPS_A	1	43/1	-ACU-1.J05	: B		43/1	ECC-1-XHPS	: 1		43/1	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	2	43/1	-ACU-1.J05	: A		43/1	ECC-1-XHPS	: 2		43/1	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	3	43/3	-ACU-1.J70	: C		43/3	ECC-1-XHPS	: 3		43/3	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	4	43/3	-ACU-1.J70	: B		43/3	ECC-1-XHPS	: 4		43/3	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	5	43/4	-ACU-1.J34	: D		43/5	ECC-1-XHPS	: 5		43/4	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	6	43/4	-ACU-1.J34	: B		43/4	ECC-1-XHPS	: 7		43/4	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	7	43/5	-ACU-1.J34	: C		43/4	ECC-1-XHPS	: 8		43/5	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	8	43/6	-ACU-1.J31	: D		43/6	ECC-1-XHPS	: 9		43/6	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	9	43/6	-ACU-1.J31	: C		43/6	ECC-1-XHPS	: 10		43/6	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	10	43/7	-ACU-1.J32	: D		43/8	ECC-1-XHPS	: 11		43/7	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	11	43/8	-ACU-1.J32	: C		43/7	ECC-1-XHPS	: 12		43/8	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	Screen	43/8	-ACU-1	: EMC Bus bar		43/8	ECC-1	: EMC Bus bar		43/8	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_D	1	48/2	ECC-1-XHPS1	: 49		48/2	-ACU-1.J80	: B		48/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	2	48/2	ECC-1-XHPS1	: 50		48/2	-ACU-1.J03	: A		48/1	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	3	49/2	ECC-1-XHPS-D	: 1		49/2	-ACU-1.J27	: D		49/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	4	49/2	ECC-1-XHPS-D	: 2		49/2	-ACU-1.J27	: A	ID 1236	49/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	5	49/2	ECC-1-XHPS-D	: 3		49/2	-ACU-1.J27	: B		49/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	6	49/2	ECC-1-XHPS-D	: 4		49/2	-ACU-1.J27	: C		49/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	Screen	49/2	ECC-1	: EMC Bus bar		49/3	-ACU-1	: EMC Bus bar		49/3	7x0.75mm²	EN700AC 0707
-ACU-1-WNET-A	1	91/2	ECC-1-XNET-A	: 1		91/1	-ACU-1.J65	: A	Line A	91/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-A	2	91/2	ECC-1-XNET-A	: 2		91/1	-ACU-1.J65	: B		91/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-A	Screen	91/2	ECC-1-XNET-A	: 3		91/1	-ACU-1.J65	: C		91/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	1	99/3	-ECU-A.J65	: A	Line B	99/4	-ACU-1.J65	: A	Line B	99/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	2	99/3	-ECU-A.J65	: B		99/5	-ACU-1.J65	: B		99/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	Screen	99/3	-ECU-A.J65	: C		99/5	-ACU-1.J65	: C		99/3	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 179(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-ACU-2-WHPS_A	1	44/1	-ACU-2.J05	: B		44/1	ECC-1-XHPS	: 13		44/1	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	2	44/1	-ACU-2.J05	: A		44/1	ECC-1-XHPS	: 14		44/1	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	3	44/3	-ACU-2.J70	: C		44/3	ECC-1-XHPS	: 15		44/3	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	4	44/3	-ACU-2.J70	: B		44/3	ECC-1-XHPS	: 16		44/3	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	5	44/4	-ACU-2.J34	: D		44/5	ECC-1-XHPS	: 19		44/4	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	6	44/4	-ACU-2.J34	: B		44/4	ECC-1-XHPS	: 21		44/4	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	7	44/5	-ACU-2.J34	: C		44/4	ECC-1-XHPS	: 22		44/5	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	8	44/6	-ACU-2.J31	: D		44/6	ECC-1-XHPS	: 23		44/6	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	9	44/6	-ACU-2.J31	: C		44/6	ECC-1-XHPS	: 24		44/6	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	10	44/7	-ACU-2.J32	: D		44/8	ECC-1-XHPS	: 25		44/7	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	11	44/8	-ACU-2.J32	: C		44/7	ECC-1-XHPS	: 26		44/8	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	12	46/2	-ACU-2.J33	: D		46/2	ECC-1-XHPS-A	: 41		46/2	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	13	46/2	-ACU-2.J33	: C		46/2	ECC-1-XHPS-A	: 42		46/2	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_A	Screen	46/2	-ACU-2	: EMC Bus bar		46/2	ECC-1	: EMC Bus bar		46/2	14x0.75mm²	EN700AC 1407
-ACU-2-WHPS_D	1	49/7	-ACU-2.J27	: D		49/7	ECC-1-XHPS-D	: 5		49/7	5x0.75mm²	EN700AC 0507
-ACU-2-WHPS_D	2	49/7	-ACU-2.J27	: A	ID 1235	49/7	ECC-1-XHPS-D	: 6		49/7	5x0.75mm²	EN700AC 0507
-ACU-2-WHPS_D	3	49/7	-ACU-2.J27	: B		49/7	ECC-1-XHPS-D	: 7		49/7	5x0.75mm²	EN700AC 0507
-ACU-2-WHPS_D	4	49/7	-ACU-2.J27	: C		49/7	ECC-1-XHPS-D	: 8		49/7	5x0.75mm²	EN700AC 0507
-ACU-2-WHPS_D	Screen	49/7	-ACU-2	: EMC Bus bar		49/7	ECC-1	: EMC Bus bar		49/7	5x0.75mm²	EN700AC 0507
-ACU-2-WNET-A	1	92/4	-SCU.J65	: A	Line A	92/3	-ACU-2.J65	: A	Line A	92/4	1x2x0.75mm²	EN700AF 0107
-ACU-2-WNET-A	2	92/4	-SCU.J65	: B		92/3	-ACU-2.J65	: B		92/5	1x2x0.75mm²	EN700AF 0107
-ACU-2-WNET-A	Screen	92/4	-SCU.J65	: C		92/3	-ACU-2.J65	: C		92/5	1x2x0.75mm²	EN700AF 0107
-ACU-2-WNET-B	1	100/5	-ACU-3.J65	: A	Line B	100/6	-ACU-2.J65	: A	Line B	100/4	1x2x0.75mm²	EN700AF 0107
-ACU-2-WNET-B	2	100/5	-ACU-3.J65	: B		100/6	-ACU-2.J65	: B		100/5	1x2x0.75mm²	EN700AF 0107
-ACU-2-WNET-B	Screen	100/5	-ACU-3.J65	: C		100/6	-ACU-2.J65	: C		100/5	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 180(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-ACU-3-WHPS_A	1	45/1	-ACU-3.J05	: B		45/1	ECC-1-XHPS1	: 27		45/1	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	2	45/1	-ACU-3.J05	: A		45/1	ECC-1-XHPS1	: 28		45/1	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	3	45/3	-ACU-3.J70	: C		45/3	ECC-1-XHPS1	: 29		45/3	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	4	45/3	-ACU-3.J70	: B		45/3	ECC-1-XHPS1	: 30		45/3	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	5	45/4	-ACU-3.J34	: D		45/5	ECC-1-XHPS1	: 33		45/4	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	6	45/4	-ACU-3.J34	: B		45/4	ECC-1-XHPS1	: 35		45/4	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	7	45/5	-ACU-3.J34	: C		45/4	ECC-1-XHPS1	: 36		45/5	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	8	45/6	-ACU-3.J31	: D		45/6	ECC-1-XHPS1	: 37		45/6	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	9	45/6	-ACU-3.J31	: C		45/6	ECC-1-XHPS1	: 38		45/6	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	10	45/7	-ACU-3.J32	: D		45/8	ECC-1-XHPS1	: 39		45/7	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	11	45/8	-ACU-3.J32	: C		45/7	ECC-1-XHPS1	: 40		45/8	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	12	46/6	-ACU-3.J33	: D		46/6	ECC-1-XHPS-A	: 43		46/6	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	13	46/6	-ACU-3.J33	: C		46/6	ECC-1-XHPS-A	: 44		46/6	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_A	Screen	46/7	-ACU-3	: EMC Bus bar		46/7	ECC-1	: EMC Bus bar		46/7	14x0.75mm²	EN700AC 1407
-ACU-3-WHPS_D	1	48/7	ECC-1-XHPS1	: 51		48/7	-ACU-3.J80	: B		48/7	2x0.75mm²	EN700AC 0207
-ACU-3-WHPS_D	2	48/7	ECC-1-XHPS1	: 52		48/7	-ACU-3.J03	: A		48/6	2x0.75mm²	EN700AC 0207
-ACU-3-WHPS_D	Screen	48/7	ECC-1	: EMC Bus bar		48/7	-ACU-3	: EMC Bus bar		48/7	2x0.75mm²	EN700AC 0207
-ACU-3-WNET-A	1	92/6	-ACU-2.J65	: A	Line A	92/4	-ACU-3.J65	: A	Line A	92/6	1x2x0.75mm²	EN700AF 0107
-ACU-3-WNET-A	2	92/6	-ACU-2.J65	: B		92/5	-ACU-3.J65	: B		92/6	1x2x0.75mm²	EN700AF 0107
-ACU-3-WNET-A	Screen	92/6	-ACU-2.J65	: C		92/5	-ACU-3.J65	: C		92/6	1x2x0.75mm²	EN700AF 0107
-ACU-3-WNET-B	1	100/7	ECC-1-XNET-B	: 4		100/8	-ACU-3.J65	: A	Line B	100/6	1x2x0.75mm²	EN700AF 0107
-ACU-3-WNET-B	2	100/7	ECC-1-XNET-B	: 5		100/8	-ACU-3.J65	: B		100/6	1x2x0.75mm²	EN700AF 0107
-ACU-3-WNET-B	Screen	100/7	ECC-1-XNET-B	: 6		100/8	-ACU-3.J65	: C		100/6	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-A	1	95/2	ECC-2-XNET-A	: 1		95/1	-CCU-1.J65	: A	Line A	95/3	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-A	2	95/2	ECC-2-XNET-A	: 2		95/1	-CCU-1.J65	: B		95/3	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-A	Screen	95/2	ECC-2-XNET-A	: 3		95/1	-CCU-1.J65	: C		95/3	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-B	1	103/3	-CCU-3.J65	: A	Line B	103/4	-CCU-1.J65	: A	Line B	103/3	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-B	2	103/3	-CCU-3.J65	: B		103/5	-CCU-1.J65	: B		103/3	1x2x0.75mm²	EN700AF 0107
-CCU-1-WNET-B	Screen	103/3	-CCU-3.J65	: C		103/5	-CCU-1.J65	: C		103/3	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 181(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-1-WTSA-A	1	122/1	ECC-2-X2TSA-A	: 1		121/7	-CCU-1.J40...J43	: B	ID 4002-A	122/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	2	122/1	ECC-2-X2TSA-A	: 2		121/7	-CCU-1.J40...J43	: C		122/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	3	122/1	ECC-2-X2TSA-A	: 3		121/7	-CCU-1.J40...J43	: B	ID 4001-A	122/1	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	4	122/1	ECC-2-X2TSA-A	: 4		121/7	-CCU-1.J40...J43	: C		122/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	5	122/1	ECC-2-X2TSA-A	: 5		121/7	-CCU-1.J40...J43	: B	ID 4004-A	122/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	6	122/1	ECC-2-X2TSA-A	: 6		121/7	-CCU-1.J40...J43	: C		122/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	7	122/1	ECC-2-X2TSA-A	: 7		121/7	-CCU-1.J40...J43	: B	ID 4003-A	122/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	8	122/1	ECC-2-X2TSA-A	: 8		121/7	-CCU-1.J40...J43	: C		122/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	Screen	122/1	ECC-2	: Screen to FE-Busbar		121/7	-CCU-1	: Screen to Frame		122/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	1	132/1	ECC-2-X2TSA-B	: 1		131/7	-CCU-1.J44....J47	: B	ID 4002-B	132/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	2	132/1	ECC-2-X2TSA-B	: 2		131/7	-CCU-1.J44....J47	: C		132/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	3	132/1	ECC-2-X2TSA-B	: 3		131/7	-CCU-1.J44....J47	: B	ID 4001-B	132/1	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	4	132/1	ECC-2-X2TSA-B	: 4		131/7	-CCU-1.J44....J47	: C		132/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	5	132/1	ECC-2-X2TSA-B	: 5		131/7	-CCU-1.J44....J47	: B	ID 4004-B	132/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	6	132/1	ECC-2-X2TSA-B	: 6		131/7	-CCU-1.J44....J47	: C		132/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	7	132/1	ECC-2-X2TSA-B	: 7		131/7	-CCU-1.J44....J47	: B	ID 4003-B	132/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	8	132/1	ECC-2-X2TSA-B	: 8		131/7	-CCU-1.J44....J47	: C		132/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	Screen	132/1	ECC-2	: Screen to FE-Busbar		131/7	-CCU-1	: Screen to Frame		132/4	4x2x0.75mm²	EN700AA 0407
-CCU-2-WNET-A	1	96/6	-CCU-4.J65	: A	Line A	96/4	-CCU-2.J65	: A	Line A	96/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-A	2	96/6	-CCU-4.J65	: B		96/5	-CCU-2.J65	: B		96/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-A	Screen	96/6	-CCU-4.J65	: C		96/5	-CCU-2.J65	: C		96/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	1	104/7	ECC-2-XNET-B	: 4		104/8	-CCU-2.J65	: A	Line B	104/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	2	104/7	ECC-2-XNET-B	: 5		104/8	-CCU-2.J65	: B		104/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	Screen	104/7	ECC-2-XNET-B	: 6		104/8	-CCU-2.J65	: C		104/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WTSA-A	1	124/5	-CCU-4.J40...J43	: B	ID 4002-A	124/2	-CCU-2.J40...J43	: B	ID 4002-A	124/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	2	124/5	-CCU-4.J40...J43	: C		124/2	-CCU-2.J40...J43	: C		124/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	3	124/5	-CCU-4.J40...J43	: B	ID 4001-A	124/1	-CCU-2.J40...J43	: B	ID 4001-A	124/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	4	124/5	-CCU-4.J40...J43	: C		124/2	-CCU-2.J40...J43	: C		124/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	5	124/5	-CCU-4.J40...J43	: B	ID 4004-A	124/4	-CCU-2.J40...J43	: B	ID 4004-A	124/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	6	124/5	-CCU-4.J40...J43	: C		124/4	-CCU-2.J40...J43	: C		124/8	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	7	124/5	-CCU-4.J40...J43	: B	ID 4003-A	124/3	-CCU-2.J40...J43	: B	ID 4003-A	124/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	8	124/5	-CCU-4.J40...J43	: C		124/3	-CCU-2.J40...J43	: C		124/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	Screen	124/5	-CCU-4	: Screen to Frame		124/4	-CCU-2	: Screen to Frame		124/8	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 182(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-2-WTSA-B	1	134/5	-CCU-4.J44....J47	: B	ID 4002-B	134/2	-CCU-2.J44...J47	: B	ID 4002-B	134/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	2	134/5	-CCU-4.J44....J47	: C		134/2	-CCU-2.J44...J47	: C		134/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	3	134/5	-CCU-4.J44....J47	: B	ID 4001-B	134/1	-CCU-2.J44...J47	: B	ID 4001-B	134/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	4	134/5	-CCU-4.J44....J47	: C		134/2	-CCU-2.J44...J47	: C		134/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	5	134/5	-CCU-4.J44....J47	: B	ID 4004-B	134/4	-CCU-2.J44...J47	: B	ID 4004-B	134/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	6	134/5	-CCU-4.J44....J47	: C		134/4	-CCU-2.J44...J47	: C		134/8	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	7	134/5	-CCU-4.J44....J47	: B	ID 4003-B	134/3	-CCU-2.J44...J47	: B	ID 4003-B	134/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	8	134/5	-CCU-4.J44....J47	: C		134/3	-CCU-2.J44...J47	: C		134/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	Screen	134/5	-CCU-4	: Screen to Frame		134/4	-CCU-2	: Screen to Frame		134/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WNET-A	1	95/4	-CCU-1.J65	: A	Line A	95/3	-CCU-3.J65	: A	Line A	95/4	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-A	2	95/4	-CCU-1.J65	: B		95/3	-CCU-3.J65	: B		95/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-A	Screen	95/4	-CCU-1.J65	: C		95/3	-CCU-3.J65	: C		95/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	1	103/5	-CCU-5.J65	: A	Line B	103/6	-CCU-3.J65	: A	Line B	103/4	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	2	103/5	-CCU-5.J65	: B		103/6	-CCU-3.J65	: B		103/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	Screen	103/5	-CCU-5.J65	: C		103/6	-CCU-3.J65	: C		103/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WTSA-A	1	122/5	-CCU-1.J40...J43	: B	ID 4002-A	122/2	-CCU-3.J40...J43	: B	ID 4002-A	122/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	2	122/5	-CCU-1.J40...J43	: C		122/2	-CCU-3.J40...J43	: C		122/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	3	122/5	-CCU-1.J40...J43	: B	ID 4001-A	122/1	-CCU-3.J40...J43	: B	ID 4001-A	122/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	4	122/5	-CCU-1.J40...J43	: C		122/2	-CCU-3.J40...J43	: C		122/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	5	122/5	-CCU-1.J40...J43	: B	ID 4004-A	122/4	-CCU-3.J40...J43	: B	ID 4004-A	122/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	6	122/5	-CCU-1.J40...J43	: C		122/4	-CCU-3.J40...J43	: C		122/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	7	122/5	-CCU-1.J40...J43	: B	ID 4003-A	122/3	-CCU-3.J40...J43	: B	ID 4003-A	122/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	8	122/5	-CCU-1.J40...J43	: C		122/3	-CCU-3.J40...J43	: C		122/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	Screen	122/5	-CCU-1	: Screen to Frame		122/4	-CCU-3	: Screen to Frame		122/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	1	132/5	-CCU-1.J44....J47	: B	ID 4002-B	132/2	-CCU-3.J44...J47	: B	ID 4002-B	132/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	2	132/5	-CCU-1.J44....J47	: C		132/2	-CCU-3.J44...J47	: C		132/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	3	132/5	-CCU-1.J44....J47	: B	ID 4001-B	132/1	-CCU-3.J44...J47	: B	ID 4001-B	132/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	4	132/5	-CCU-1.J44....J47	: C		132/2	-CCU-3.J44...J47	: C		132/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	5	132/5	-CCU-1.J44....J47	: B	ID 4004-B	132/4	-CCU-3.J44...J47	: B	ID 4004-B	132/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	6	132/5	-CCU-1.J44....J47	: C		132/4	-CCU-3.J44...J47	: C		132/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	7	132/5	-CCU-1.J44....J47	: B	ID 4003-B	132/3	-CCU-3.J44...J47	: B	ID 4003-B	132/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	8	132/5	-CCU-1.J44....J47	: C		132/3	-CCU-3.J44...J47	: C		132/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	Screen	132/5	-CCU-1	: Screen to Frame		132/4	-CCU-3	: Screen to Frame		132/8	4x2x0.75mm²	EN700AA 0407
-CCU-4-WNET-A	1	96/4	-CCU-6.J65	: A	Line A	96/3	-CCU-4.J65	: A	Line A	96/4	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-A	2	96/4	-CCU-6.J65	: B		96/3	-CCU-4.J65	: B		96/5	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-A	Screen	96/4	-CCU-6.J65	: C		96/3	-CCU-4.J65	: C		96/5	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 183(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-4-WNET-B	1	104/5	-CCU-2.J65	: A	Line B	104/6	-CCU-4.J65	: A	Line B	104/4	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-B	2	104/5	-CCU-2.J65	: B		104/6	-CCU-4.J65	: B		104/5	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-B	Screen	104/5	-CCU-2.J65	: C		104/6	-CCU-4.J65	: C		104/5	1x2x0.75mm²	EN700AF 0107
-CCU-4-WTSA-A	1	124/1	-CCU-6.J40...J43	: B	ID 4002-A	123/6	-CCU-4.J40...J43	: B	ID 4002-A	124/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	2	124/1	-CCU-6.J40...J43	: C		123/6	-CCU-4.J40...J43	: C		124/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	3	124/1	-CCU-6.J40...J43	: B	ID 4001-A	123/5	-CCU-4.J40...J43	: B	ID 4001-A	124/1	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	4	124/1	-CCU-6.J40...J43	: C		123/5	-CCU-4.J40...J43	: C		124/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	5	124/1	-CCU-6.J40...J43	: B	ID 4004-A	123/7	-CCU-4.J40...J43	: B	ID 4004-A	124/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	6	124/1	-CCU-6.J40...J43	: C		123/8	-CCU-4.J40...J43	: C		124/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	7	124/1	-CCU-6.J40...J43	: B	ID 4003-A	123/7	-CCU-4.J40...J43	: B	ID 4003-A	124/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	8	124/1	-CCU-6.J40...J43	: C		123/7	-CCU-4.J40...J43	: C		124/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	Screen	124/1	-CCU-6	: Screen to Frame		123/8	-CCU-4	: Screen to Frame		124/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	1	134/1	-CCU-6.J44...J47	: B	ID 4002-B	133/6	-CCU-4.J44....J47	: B	ID 4002-B	134/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	2	134/1	-CCU-6.J44...J47	: C		133/6	-CCU-4.J44....J47	: C		134/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	3	134/1	-CCU-6.J44...J47	: B	ID 4001-B	133/5	-CCU-4.J44....J47	: B	ID 4001-B	134/1	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	4	134/1	-CCU-6.J44...J47	: C		133/5	-CCU-4.J44....J47	: C		134/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	5	134/1	-CCU-6.J44...J47	: B	ID 4004-B	133/7	-CCU-4.J44....J47	: B	ID 4004-B	134/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	6	134/1	-CCU-6.J44...J47	: C		133/8	-CCU-4.J44....J47	: C		134/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	7	134/1	-CCU-6.J44...J47	: B	ID 4003-B	133/7	-CCU-4.J44....J47	: B	ID 4003-B	134/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	8	134/1	-CCU-6.J44...J47	: C		133/7	-CCU-4.J44....J47	: C		134/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	Screen	134/1	-CCU-6	: Screen to Frame		133/8	-CCU-4	: Screen to Frame		134/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WNET-A	1	95/6	-CCU-3.J65	: A	Line A	95/4	-CCU-5.J65	: A	Line A	95/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-A	2	95/6	-CCU-3.J65	: B		95/5	-CCU-5.J65	: B		95/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-A	Screen	95/6	-CCU-3.J65	: C		95/5	-CCU-5.J65	: C		95/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	1	103/7	-ECU-B.J65	: A	Line B	99/6	-CCU-5.J65	: A	Line B	103/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	2	103/7	-ECU-B.J65	: B		99/6	-CCU-5.J65	: B		103/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	Screen	103/7	-ECU-B.J65	: C		99/6	-CCU-5.J65	: C		103/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WTSA-A	1	123/1	-CCU-3.J40...J43	: B	ID 4002-A	122/6	-CCU-5.J40...J43	: B	ID 4002-A	123/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	2	123/1	-CCU-3.J40...J43	: C		122/6	-CCU-5.J40...J43	: C		123/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	3	123/1	-CCU-3.J40...J43	: B	ID 4001-A	122/5	-CCU-5.J40...J43	: B	ID 4001-A	123/1	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	4	123/1	-CCU-3.J40...J43	: C		122/5	-CCU-5.J40...J43	: C		123/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	5	123/1	-CCU-3.J40...J43	: B	ID 4004-A	122/7	-CCU-5.J40...J43	: B	ID 4004-A	123/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	6	123/1	-CCU-3.J40...J43	: C		122/8	-CCU-5.J40...J43	: C		123/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	7	123/1	-CCU-3.J40...J43	: B	ID 4003-A	122/7	-CCU-5.J40...J43	: B	ID 4003-A	123/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	8	123/1	-CCU-3.J40...J43	: C		122/7	-CCU-5.J40...J43	: C		123/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	Screen	123/1	-CCU-3	: Screen to Frame		122/8	-CCU-5	: Screen to Frame		123/4	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 184(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-5-WTSA-B	1	133/1	-CCU-3.J44...J47	: B	ID 4002-B	132/6	-CCU-5.J44....J47	: B	ID 4002-B	133/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	2	133/1	-CCU-3.J44...J47	: C		132/6	-CCU-5.J44....J47	: C		133/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	3	133/1	-CCU-3.J44...J47	: B	ID 4001-B	132/5	-CCU-5.J44....J47	: B	ID 4001-B	133/1	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	4	133/1	-CCU-3.J44...J47	: C		132/5	-CCU-5.J44....J47	: C		133/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	5	133/1	-CCU-3.J44...J47	: B	ID 4004-B	132/7	-CCU-5.J44....J47	: B	ID 4004-B	133/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	6	133/1	-CCU-3.J44...J47	: C		132/8	-CCU-5.J44....J47	: C		133/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	7	133/1	-CCU-3.J44...J47	: B	ID 4003-B	132/7	-CCU-5.J44....J47	: B	ID 4003-B	133/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	8	133/1	-CCU-3.J44...J47	: C		132/7	-CCU-5.J44....J47	: C		133/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-B	Screen	133/1	-CCU-3	: Screen to Frame		132/8	-CCU-5	: Screen to Frame		133/4	4x2x0.75mm²	EN700AA 0407
-CCU-6-WNET-A	1	96/2	-EICU-B-XNET-A	: 4		90/8	-CCU-6.J65	: A	Line A	96/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WNET-A	2	96/2	-EICU-B-XNET-A	: 5		90/8	-CCU-6.J65	: B		96/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WNET-A	Screen	96/2	-EC-MOP-A	: Screen in Frame		89/6	-CCU-6.J65	: C		96/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WNET-B	1	104/3	-CCU-4.J65	: A	Line B	104/4	-CCU-6.J65	: A	Line B	104/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WNET-B	2	104/3	-CCU-4.J65	: B		104/5	-CCU-6.J65	: B		104/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WNET-B	Screen	104/3	-CCU-4.J65	: C		104/5	-CCU-6.J65	: C		104/3	1x2x0.75mm²	EN700AF 0107
-CCU-6-WTSA-A	1	123/5	-CCU-5.J40...J43	: B	ID 4002-A	123/2	-CCU-6.J40...J43	: B	ID 4002-A	123/6	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	2	123/5	-CCU-5.J40...J43	: C		123/2	-CCU-6.J40...J43	: C		123/6	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	3	123/5	-CCU-5.J40...J43	: B	ID 4001-A	123/1	-CCU-6.J40...J43	: B	ID 4001-A	123/5	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	4	123/5	-CCU-5.J40...J43	: C		123/2	-CCU-6.J40...J43	: C		123/5	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	5	123/5	-CCU-5.J40...J43	: B	ID 4004-A	123/4	-CCU-6.J40...J43	: B	ID 4004-A	123/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	6	123/5	-CCU-5.J40...J43	: C		123/4	-CCU-6.J40...J43	: C		123/8	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	7	123/5	-CCU-5.J40...J43	: B	ID 4003-A	123/3	-CCU-6.J40...J43	: B	ID 4003-A	123/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	8	123/5	-CCU-5.J40...J43	: C		123/3	-CCU-6.J40...J43	: C		123/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-A	Screen	123/5	-CCU-5	: Screen to Frame		123/4	-CCU-6	: Screen to Frame		123/8	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	1	133/5	-CCU-5.J44....J47	: B	ID 4002-B	133/2	-CCU-6.J44...J47	: B	ID 4002-B	133/6	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	2	133/5	-CCU-5.J44....J47	: C		133/2	-CCU-6.J44...J47	: C		133/6	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	3	133/5	-CCU-5.J44....J47	: B	ID 4001-B	133/1	-CCU-6.J44...J47	: B	ID 4001-B	133/5	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	4	133/5	-CCU-5.J44....J47	: C		133/2	-CCU-6.J44...J47	: C		133/5	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	5	133/5	-CCU-5.J44....J47	: B	ID 4004-B	133/4	-CCU-6.J44...J47	: B	ID 4004-B	133/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	6	133/5	-CCU-5.J44....J47	: C		133/4	-CCU-6.J44...J47	: C		133/8	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	7	133/5	-CCU-5.J44....J47	: B	ID 4003-B	133/3	-CCU-6.J44...J47	: B	ID 4003-B	133/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	8	133/5	-CCU-5.J44....J47	: C		133/3	-CCU-6.J44...J47	: C		133/7	4x2x0.75mm²	EN700AA 0407
-CCU-6-WTSA-B	Screen	133/5	-CCU-5	: Screen to Frame		133/4	-CCU-6	: Screen to Frame		133/8	4x2x0.75mm²	EN700AA 0407
-CCU-7-WNET-A	1	93/2	ECC-3-XNET-A	: 1		93/1	-CCU-7.J65	: A	Line A	93/3	1x2x0.75mm²	EN700AF 0107
-CCU-7-WNET-A	2	93/2	ECC-3-XNET-A	: 2		93/1	-CCU-7.J65	: B		93/3	1x2x0.75mm²	EN700AF 0107
-CCU-7-WNET-A	Screen	93/2	ECC-3-XNET-A	: 3		93/1	-CCU-7.J65	: C		93/3	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 185(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-7-WNET-B	1	101/3	-CCU-9.J65	: A	Line B	101/4	-CCU-7.J65	: A	Line B	101/3	1x2x0.75mm²	EN700AF 0107
-CCU-7-WNET-B	2	101/3	-CCU-9.J65	: B		101/5	-CCU-7.J65	: B		101/3	1x2x0.75mm²	EN700AF 0107
-CCU-7-WNET-B	Screen	101/3	-CCU-9.J65	: C		101/5	-CCU-7.J65	: C		101/3	1x2x0.75mm²	EN700AF 0107
-CCU-7-WTSA-A	1	118/1	ECC-3-X2TSA-A	: 1		117/7	-CCU-7.J40...J43	: B	ID 4002-A	118/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	2	118/1	ECC-3-X2TSA-A	: 2		117/7	-CCU-7.J40...J43	: C		118/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	3	118/1	ECC-3-X2TSA-A	: 3		117/7	-CCU-7.J40...J43	: B	ID 4001-A	118/1	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	4	118/1	ECC-3-X2TSA-A	: 4		117/7	-CCU-7.J40...J43	: C		118/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	5	118/1	ECC-3-X2TSA-A	: 5		117/7	-CCU-7.J40...J43	: B	ID 4004-A	118/4	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	6	118/1	ECC-3-X2TSA-A	: 6		117/7	-CCU-7.J40...J43	: C		118/4	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	7	118/1	ECC-3-X2TSA-A	: 7		117/7	-CCU-7.J40...J43	: B	ID 4003-A	118/3	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	8	118/1	ECC-3-X2TSA-A	: 8		117/7	-CCU-7.J40...J43	: C		118/3	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-A	Screen	118/1	ECC-3	: Screen to FE-Busbar		117/7	-CCU-7	: Screen to Frame		118/4	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	1	128/1	ECC-3-X2TSA-B	: 1		127/7	-CCU-7.J44....J47	: B	ID 4002-B	128/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	2	128/1	ECC-3-X2TSA-B	: 2		127/7	-CCU-7.J44....J47	: C		128/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	3	128/1	ECC-3-X2TSA-B	: 3		127/7	-CCU-7.J44....J47	: B	ID 4001-B	128/1	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	4	128/1	ECC-3-X2TSA-B	: 4		127/7	-CCU-7.J44....J47	: C		128/2	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	5	128/1	ECC-3-X2TSA-B	: 5		127/7	-CCU-7.J44....J47	: B	ID 4004-B	128/4	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	6	128/1	ECC-3-X2TSA-B	: 6		127/7	-CCU-7.J44....J47	: C		128/4	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	7	128/1	ECC-3-X2TSA-B	: 7		127/7	-CCU-7.J44....J47	: B	ID 4003-B	128/3	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	8	128/1	ECC-3-X2TSA-B	: 8		127/7	-CCU-7.J44....J47	: C		128/3	4x2x0.75mm²	EN700AA 0407
-CCU-7-WTSA-B	Screen	128/1	ECC-3	: Screen to FE-Busbar		127/7	-CCU-7	: Screen to Frame		128/4	4x2x0.75mm²	EN700AA 0407
-CCU-8-WNET-A	1	94/6	-CCU-10.J65	: A	Line A	94/4	-CCU-8.J65	: A	Line A	94/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WNET-A	2	94/6	-CCU-10.J65	: B		94/5	-CCU-8.J65	: B		94/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WNET-A	Screen	94/6	-CCU-10.J65	: C		94/5	-CCU-8.J65	: C		94/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WNET-B	1	102/7	ECC-3-XNET-B	: 4		102/8	-CCU-8.J65	: A	Line B	102/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WNET-B	2	102/7	ECC-3-XNET-B	: 5		102/8	-CCU-8.J65	: B		102/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WNET-B	Screen	102/7	ECC-3-XNET-B	: 6		102/8	-CCU-8.J65	: C		102/6	1x2x0.75mm²	EN700AF 0107
-CCU-8-WTSA-A	1	120/5	-CCU-10.J40...J43	: B	ID 4002-A	120/2	-CCU-8.J40...J43	: B	ID 4002-A	120/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	2	120/5	-CCU-10.J40...J43	: C		120/2	-CCU-8.J40...J43	: C		120/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	3	120/5	-CCU-10.J40...J43	: B	ID 4001-A	120/1	-CCU-8.J40...J43	: B	ID 4001-A	120/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	4	120/5	-CCU-10.J40...J43	: C		120/2	-CCU-8.J40...J43	: C		120/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	5	120/5	-CCU-10.J40...J43	: B	ID 4004-A	120/4	-CCU-8.J40...J43	: B	ID 4004-A	120/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	6	120/5	-CCU-10.J40...J43	: C		120/4	-CCU-8.J40...J43	: C		120/8	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	7	120/5	-CCU-10.J40...J43	: B	ID 4003-A	120/3	-CCU-8.J40...J43	: B	ID 4003-A	120/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	8	120/5	-CCU-10.J40...J43	: C		120/3	-CCU-8.J40...J43	: C		120/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-A	Screen	120/5	-CCU-10	: Screen to Frame		120/4	-CCU-8	: Screen to Frame		120/8	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 186(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-8-WTSA-B	1	130/5	-CCU-10.J44....J47	: B	ID 4002-B	130/2	-CCU-8.J44...J47	: B	ID 4002-B	130/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	2	130/5	-CCU-10.J44....J47	: C		130/2	-CCU-8.J44...J47	: C		130/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	3	130/5	-CCU-10.J44....J47	: B	ID 4001-B	130/1	-CCU-8.J44...J47	: B	ID 4001-B	130/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	4	130/5	-CCU-10.J44....J47	: C		130/2	-CCU-8.J44...J47	: C		130/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	5	130/5	-CCU-10.J44....J47	: B	ID 4004-B	130/4	-CCU-8.J44...J47	: B	ID 4004-B	130/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	6	130/5	-CCU-10.J44....J47	: C		130/4	-CCU-8.J44...J47	: C		130/8	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	7	130/5	-CCU-10.J44....J47	: B	ID 4003-B	130/3	-CCU-8.J44...J47	: B	ID 4003-B	130/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	8	130/5	-CCU-10.J44....J47	: C		130/3	-CCU-8.J44...J47	: C		130/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	Screen	130/5	-CCU-10	: Screen to Frame		130/4	-CCU-8	: Screen to Frame		130/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WNET-A	1	93/4	-CCU-7.J65	: A	Line A	93/3	-CCU-9.J65	: A	Line A	93/4	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-A	2	93/4	-CCU-7.J65	: B		93/3	-CCU-9.J65	: B		93/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-A	Screen	93/4	-CCU-7.J65	: C		93/3	-CCU-9.J65	: C		93/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	1	101/5	-CCU-11.J65	: A	Line B	101/6	-CCU-9.J65	: A	Line B	101/4	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	2	101/5	-CCU-11.J65	: B		101/6	-CCU-9.J65	: B		101/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	Screen	101/5	-CCU-11.J65	: C		101/6	-CCU-9.J65	: C		101/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WTSA-A	1	118/5	-CCU-7.J40...J43	: B	ID 4002-A	118/2	-CCU-9.J40...J43	: B	ID 4002-A	118/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	2	118/5	-CCU-7.J40...J43	: C		118/2	-CCU-9.J40...J43	: C		118/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	3	118/5	-CCU-7.J40...J43	: B	ID 4001-A	118/1	-CCU-9.J40...J43	: B	ID 4001-A	118/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	4	118/5	-CCU-7.J40...J43	: C		118/2	-CCU-9.J40...J43	: C		118/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	5	118/5	-CCU-7.J40...J43	: B	ID 4004-A	118/4	-CCU-9.J40...J43	: B	ID 4004-A	118/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	6	118/5	-CCU-7.J40...J43	: C		118/4	-CCU-9.J40...J43	: C		118/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	7	118/5	-CCU-7.J40...J43	: B	ID 4003-A	118/3	-CCU-9.J40...J43	: B	ID 4003-A	118/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	8	118/5	-CCU-7.J40...J43	: C		118/3	-CCU-9.J40...J43	: C		118/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	Screen	118/5	-CCU-7	: Screen to Frame		118/4	-CCU-9	: Screen to Frame		118/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	1	128/5	-CCU-7.J44....J47	: B	ID 4002-B	128/2	-CCU-9.J44...J47	: B	ID 4002-B	128/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	2	128/5	-CCU-7.J44....J47	: C		128/2	-CCU-9.J44...J47	: C		128/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	3	128/5	-CCU-7.J44....J47	: B	ID 4001-B	128/1	-CCU-9.J44...J47	: B	ID 4001-B	128/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	4	128/5	-CCU-7.J44....J47	: C		128/2	-CCU-9.J44...J47	: C		128/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	5	128/5	-CCU-7.J44....J47	: B	ID 4004-B	128/4	-CCU-9.J44...J47	: B	ID 4004-B	128/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	6	128/5	-CCU-7.J44....J47	: C		128/4	-CCU-9.J44...J47	: C		128/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	7	128/5	-CCU-7.J44....J47	: B	ID 4003-B	128/3	-CCU-9.J44...J47	: B	ID 4003-B	128/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	8	128/5	-CCU-7.J44....J47	: C		128/3	-CCU-9.J44...J47	: C		128/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	Screen	128/5	-CCU-7	: Screen to Frame		128/4	-CCU-9	: Screen to Frame		128/8	4x2x0.75mm²	EN700AA 0407
-CCU-10-WNET-A	1	94/4	-CCU-12.J65	: A	Line A	94/3	-CCU-10.J65	: A	Line A	94/4	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-A	2	94/4	-CCU-12.J65	: B		94/3	-CCU-10.J65	: B		94/5	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-A	Screen	94/4	-CCU-12.J65	: C		94/3	-CCU-10.J65	: C		94/5	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 187(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-10-WNET-B	1	102/5	-CCU-8.J65	: A	Line B	102/6	-CCU-10.J65	: A	Line B	102/4	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-B	2	102/5	-CCU-8.J65	: B		102/6	-CCU-10.J65	: B		102/5	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-B	Screen	102/5	-CCU-8.J65	: C		102/6	-CCU-10.J65	: C		102/5	1x2x0.75mm²	EN700AF 0107
-CCU-10-WTSA-A	1	120/1	-CCU-12.J40...J43	: B	ID 4002-A	119/6	-CCU-10.J40...J43	: B	ID 4002-A	120/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	2	120/1	-CCU-12.J40...J43	: C		119/6	-CCU-10.J40...J43	: C		120/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	3	120/1	-CCU-12.J40...J43	: B	ID 4001-A	119/5	-CCU-10.J40...J43	: B	ID 4001-A	120/1	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	4	120/1	-CCU-12.J40...J43	: C		119/5	-CCU-10.J40...J43	: C		120/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	5	120/1	-CCU-12.J40...J43	: B	ID 4004-A	119/7	-CCU-10.J40...J43	: B	ID 4004-A	120/4	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	6	120/1	-CCU-12.J40...J43	: C		119/8	-CCU-10.J40...J43	: C		120/4	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	7	120/1	-CCU-12.J40...J43	: B	ID 4003-A	119/7	-CCU-10.J40...J43	: B	ID 4003-A	120/3	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	8	120/1	-CCU-12.J40...J43	: C		119/7	-CCU-10.J40...J43	: C		120/3	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-A	Screen	120/1	-CCU-12	: Screen to Frame		119/8	-CCU-10	: Screen to Frame		120/4	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	1	130/1	-CCU-12.J44...J47	: B	ID 4002-B	129/6	-CCU-10.J44....J47	: B	ID 4002-B	130/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	2	130/1	-CCU-12.J44...J47	: C		129/6	-CCU-10.J44....J47	: C		130/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	3	130/1	-CCU-12.J44...J47	: B	ID 4001-B	129/5	-CCU-10.J44....J47	: B	ID 4001-B	130/1	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	4	130/1	-CCU-12.J44...J47	: C		129/5	-CCU-10.J44....J47	: C		130/2	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	5	130/1	-CCU-12.J44...J47	: B	ID 4004-B	129/7	-CCU-10.J44....J47	: B	ID 4004-B	130/4	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	6	130/1	-CCU-12.J44...J47	: C		129/8	-CCU-10.J44....J47	: C		130/4	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	7	130/1	-CCU-12.J44...J47	: B	ID 4003-B	129/7	-CCU-10.J44....J47	: B	ID 4003-B	130/3	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	8	130/1	-CCU-12.J44...J47	: C		129/7	-CCU-10.J44....J47	: C		130/3	4x2x0.75mm²	EN700AA 0407
-CCU-10-WTSA-B	Screen	130/1	-CCU-12	: Screen to Frame		129/8	-CCU-10	: Screen to Frame		130/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WNET-A	1	93/6	-CCU-9.J65	: A	Line A	93/4	-CCU-11.J65	: A	Line A	93/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WNET-A	2	93/6	-CCU-9.J65	: B		93/5	-CCU-11.J65	: B		93/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WNET-A	Screen	93/6	-CCU-9.J65	: C		93/5	-CCU-11.J65	: C		93/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WNET-B	1	101/7	-ECU-B.J65	: A	Line B	99/6	-CCU-11.J65	: A	Line B	101/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WNET-B	2	101/7	-ECU-B.J65	: B		99/6	-CCU-11.J65	: B		101/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WNET-B	Screen	101/7	-ECU-B.J65	: C		99/6	-CCU-11.J65	: C		101/6	1x2x0.75mm²	EN700AF 0107
-CCU-11-WTSA-A	1	119/1	-CCU-9.J40...J43	: B	ID 4002-A	118/6	-CCU-11.J40...J43	: B	ID 4002-A	119/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	2	119/1	-CCU-9.J40...J43	: C		118/6	-CCU-11.J40...J43	: C		119/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	3	119/1	-CCU-9.J40...J43	: B	ID 4001-A	118/5	-CCU-11.J40...J43	: B	ID 4001-A	119/1	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	4	119/1	-CCU-9.J40...J43	: C		118/5	-CCU-11.J40...J43	: C		119/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	5	119/1	-CCU-9.J40...J43	: B	ID 4004-A	118/7	-CCU-11.J40...J43	: B	ID 4004-A	119/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	6	119/1	-CCU-9.J40...J43	: C		118/8	-CCU-11.J40...J43	: C		119/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	7	119/1	-CCU-9.J40...J43	: B	ID 4003-A	118/7	-CCU-11.J40...J43	: B	ID 4003-A	119/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	8	119/1	-CCU-9.J40...J43	: C		118/7	-CCU-11.J40...J43	: C		119/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-A	Screen	119/1	-CCU-9	: Screen to Frame		118/8	-CCU-11	: Screen to Frame		119/4	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 188(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-CCU-11-WTSA-B	1	129/1	-CCU-9.J44...J47	: B	ID 4002-B	128/6	-CCU-11.J44....J47	: B	ID 4002-B	129/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	2	129/1	-CCU-9.J44...J47	: C		128/6	-CCU-11.J44....J47	: C		129/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	3	129/1	-CCU-9.J44...J47	: B	ID 4001-B	128/5	-CCU-11.J44....J47	: B	ID 4001-B	129/1	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	4	129/1	-CCU-9.J44...J47	: C		128/5	-CCU-11.J44....J47	: C		129/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	5	129/1	-CCU-9.J44...J47	: B	ID 4004-B	128/7	-CCU-11.J44....J47	: B	ID 4004-B	129/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	6	129/1	-CCU-9.J44...J47	: C		128/8	-CCU-11.J44....J47	: C		129/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	7	129/1	-CCU-9.J44...J47	: B	ID 4003-B	128/7	-CCU-11.J44....J47	: B	ID 4003-B	129/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	8	129/1	-CCU-9.J44...J47	: C		128/7	-CCU-11.J44....J47	: C		129/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	Screen	129/1	-CCU-9	: Screen to Frame		128/8	-CCU-11	: Screen to Frame		129/4	4x2x0.75mm²	EN700AA 0407
-CCU-12-WNET-A	1	94/2	-EICU-B-XNET-A	: 4		90/8	-CCU-12.J65	: A	Line A	94/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-A	2	94/2	-EICU-B-XNET-A	: 5		90/8	-CCU-12.J65	: B		94/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-A	Screen	94/2	-EC-MOP-A	: Screen in Frame		89/6	-CCU-12.J65	: C		94/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	1	102/3	-CCU-10.J65	: A	Line B	102/4	-CCU-12.J65	: A	Line B	102/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	2	102/3	-CCU-10.J65	: B		102/5	-CCU-12.J65	: B		102/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	Screen	102/3	-CCU-10.J65	: C		102/5	-CCU-12.J65	: C		102/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WTSA-A	1	119/5	-CCU-11.J40...J43	: B	ID 4002-A	119/2	-CCU-12.J40...J43	: B	ID 4002-A	119/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	2	119/5	-CCU-11.J40...J43	: C		119/2	-CCU-12.J40...J43	: C		119/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	3	119/5	-CCU-11.J40...J43	: B	ID 4001-A	119/1	-CCU-12.J40...J43	: B	ID 4001-A	119/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	4	119/5	-CCU-11.J40...J43	: C		119/2	-CCU-12.J40...J43	: C		119/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	5	119/5	-CCU-11.J40...J43	: B	ID 4004-A	119/4	-CCU-12.J40...J43	: B	ID 4004-A	119/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	6	119/5	-CCU-11.J40...J43	: C		119/4	-CCU-12.J40...J43	: C		119/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	7	119/5	-CCU-11.J40...J43	: B	ID 4003-A	119/3	-CCU-12.J40...J43	: B	ID 4003-A	119/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	8	119/5	-CCU-11.J40...J43	: C		119/3	-CCU-12.J40...J43	: C		119/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	Screen	119/5	-CCU-11	: Screen to Frame		119/4	-CCU-12	: Screen to Frame		119/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	1	129/5	-CCU-11.J44....J47	: B	ID 4002-B	129/2	-CCU-12.J44...J47	: B	ID 4002-B	129/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	2	129/5	-CCU-11.J44....J47	: C		129/2	-CCU-12.J44...J47	: C		129/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	3	129/5	-CCU-11.J44....J47	: B	ID 4001-B	129/1	-CCU-12.J44...J47	: B	ID 4001-B	129/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	4	129/5	-CCU-11.J44....J47	: C		129/2	-CCU-12.J44...J47	: C		129/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	5	129/5	-CCU-11.J44....J47	: B	ID 4004-B	129/4	-CCU-12.J44...J47	: B	ID 4004-B	129/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	6	129/5	-CCU-11.J44....J47	: C		129/4	-CCU-12.J44...J47	: C		129/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	7	129/5	-CCU-11.J44....J47	: B	ID 4003-B	129/3	-CCU-12.J44...J47	: B	ID 4003-B	129/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	8	129/5	-CCU-11.J44....J47	: C		129/3	-CCU-12.J44...J47	: C		129/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	Screen	129/5	-CCU-11	: Screen to Frame		129/4	-CCU-12	: Screen to Frame		129/8	4x2x0.75mm²	EN700AA 0407
-EC-MOP-A-WNET-A	1	89/5	-EC-MOP-B	: 2B		89/3	-EC-MOP-A	: 2B		89/6	1x2x0.75mm²	EN700AF 0107
-EC-MOP-A-WNET-A	2	89/5	-EC-MOP-B	: 2A	Line A	89/3	-EC-MOP-A	: 2A	Line A	89/6	1x2x0.75mm²	EN700AF 0107
-EC-MOP-A-WNET-A	Screen	89/5	-EC-MOP-B	: Screen in Frame		89/3	-EC-MOP-A	: Screen in Frame		89/6	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 189(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-EC-MOP-B-WNET-B	1	97/5	-EC-MOP-A	: 2A	Line B	97/3	-EC-MOP-B	: 2A	Line B	97/6	1x2x0.75mm²	EN700AF 0107
-EC-MOP-B-WNET-B	2	97/5	-EC-MOP-A	: 2B		97/3	-EC-MOP-B	: 2B		97/6	1x2x0.75mm²	EN700AF 0107
-EC-MOP-B-WNET-B	Screen	97/5	-EC-MOP-A	: Screen in Frame		97/3	-EC-MOP-B	: Screen in Frame		97/6	1x2x0.75mm²	EN700AF 0107
-ECU-A-WHPS_D	1	47/1	ECC-1-XHPS1	: 45		47/1	-ECU-A.J81	: B		47/3	2x0.75mm²	EN700AC 0207
-ECU-A-WHPS_D	2	47/1	ECC-1-XHPS1	: 46		47/1	-ECU-A.J08	: A		47/1	2x0.75mm²	EN700AC 0207
-ECU-A-WHPS_D	Screen	47/2	ECC-1	: EMC Bus bar		47/2	-ECU-A	: EMC Bus bar		47/2	2x0.75mm²	EN700AC 0207
-ECU-A-WNET-A	1	91/4	-ACU-1.J65	: A	Line A	91/3	-ECU-A.J65	: A	Line A	91/4	1x2x0.75mm²	EN700AF 0107
-ECU-A-WNET-A	2	91/4	-ACU-1.J65	: B		91/3	-ECU-A.J65	: B		91/5	1x2x0.75mm²	EN700AF 0107
-ECU-A-WNET-A	Screen	91/4	-ACU-1.J65	: C		91/3	-ECU-A.J65	: C		91/5	1x2x0.75mm²	EN700AF 0107
-ECU-A-WNET-B	1	99/5	-ECU-B.J65	: A	Line B	99/6	-ECU-A.J65	: A	Line B	99/4	1x2x0.75mm²	EN700AF 0107
-ECU-A-WNET-B	2	99/5	-ECU-B.J65	: B		99/6	-ECU-A.J65	: B		99/5	1x2x0.75mm²	EN700AF 0107
-ECU-A-WNET-B	Screen	99/5	-ECU-B.J65	: C		99/6	-ECU-A.J65	: C		99/5	1x2x0.75mm²	EN700AF 0107
-ECU-A-WTSA-B	1	126/5	-ECU-B.J45	: B		126/2	-ECU-A.J45	: B		126/6	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	2	126/5	-ECU-B.J45	: C		126/2	-ECU-A.J45	: C		126/6	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	3	126/5	-ECU-B.J44	: B		126/1	-ECU-A.J44	: B		126/5	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	4	126/5	-ECU-B.J44	: C		126/2	-ECU-A.J44	: C		126/5	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	5	126/5	-ECU-B.J47	: B		126/4	-ECU-A.J47	: B		126/7	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	6	126/5	-ECU-B.J47	: C		126/4	-ECU-A.J47	: C		126/8	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	7	126/5	-ECU-B.J46	: B		126/3	-ECU-A.J46	: B		126/7	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	8	126/5	-ECU-B.J46	: C		126/3	-ECU-A.J46	: C		126/7	4x2x0.75mm²	EN700AA 0407
-ECU-A-WTSA-B	Screen	126/5	-ECU-B	: Screen to Frame		126/4	-ECU-A	: Screen to Frame		126/8	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX1TSA-A	1	116/1	ECC-1-X1TSA-A	: 1		115/8	-ECU-A.J40	: A	ID 4001-A	116/1	2x2,5mm²	EN700AC 0225
-ECU-A-WX1TSA-A	2	116/1	ECC-1-X1TSA-A	: 2		115/8	-ECU-A.J40	: D		116/2	2x2,5mm²	EN700AC 0225
-ECU-A-WX1TSA-A	Screen	116/1	ECC-1	: Screen to FE-Busbar		115/8	-ECU-A	: Screen to Frame		116/2	2x2,5mm²	EN700AC 0225
-ECU-A-WX2TSA-A	1	116/1	ECC-1-X2TSA-A	: 1		115/8	-ECU-A.J41	: B		116/2	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	2	116/1	ECC-1-X2TSA-A	: 2		115/8	-ECU-A.J41	: C		116/2	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	3	116/1	ECC-1-X2TSA-A	: 3		115/8	-ECU-A.J40	: B		116/1	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	4	116/1	ECC-1-X2TSA-A	: 4		115/8	-ECU-A.J40	: C		116/2	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	5	116/1	ECC-1-X2TSA-A	: 5		115/8	-ECU-A.J43	: B		116/4	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	6	116/1	ECC-1-X2TSA-A	: 6		115/8	-ECU-A.J43	: C		116/4	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	7	116/1	ECC-1-X2TSA-A	: 7		115/8	-ECU-A.J42	: B		116/3	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	8	116/1	ECC-1-X2TSA-A	: 8		115/8	-ECU-A.J42	: C		116/3	4x2x0.75mm²	EN700AA 0407
-ECU-A-WX2TSA-A	Screen	116/1	ECC-1	: Screen to FE-Busbar		115/8	-ECU-A	: Screen to Frame		116/4	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 190(225)

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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-ECU-B-WHPS_D	1	47/6	ECC-1-XHPS1	: 47		47/6	-ECU-B.J81	: B		47/7	2x0.75mm²	EN700AC 0207
-ECU-B-WHPS_D	2	47/6	ECC-1-XHPS1	: 48		47/6	-ECU-B.J08	: A		47/6	2x0.75mm²	EN700AC 0207
-ECU-B-WHPS_D	Screen	47/6	ECC-1	: EMC Bus bar		47/6	-ECU-B	: EMC Bus bar		47/6	2x0.75mm²	EN700AC 0207
-ECU-B-WNET-A	1	91/6	-ECU-A.J65	: A	Line A	91/4	-ECU-B.J65	: A	Line A	91/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-A	2	91/6	-ECU-A.J65	: B		91/5	-ECU-B.J65	: B		91/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-A	Screen	91/6	-ECU-A.J65	: C		91/5	-ECU-B.J65	: C		91/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-B	1	99/7	-SCU.J65	: A	Line B	100/3	-ECU-B.J65	: A	Line B	99/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-B	2	99/7	-SCU.J65	: B		100/3	-ECU-B.J65	: B		99/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-B	Screen	99/7	-SCU.J65	: C		100/3	-ECU-B.J65	: C		99/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WTSA-A	1	116/5	-ECU-A.J41	: B		116/2	-ECU-B.J41	: B		116/6	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	2	116/5	-ECU-A.J41	: C		116/2	-ECU-B.J41	: C		116/6	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	3	116/5	-ECU-A.J40	: B		116/1	-ECU-B.J40	: B		116/5	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	4	116/5	-ECU-A.J40	: C		116/2	-ECU-B.J40	: C		116/5	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	5	116/5	-ECU-A.J43	: B		116/4	-ECU-B.J43	: B		116/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	6	116/5	-ECU-A.J43	: C		116/4	-ECU-B.J43	: C		116/8	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	7	116/5	-ECU-A.J42	: B		116/3	-ECU-B.J42	: B		116/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	8	116/5	-ECU-A.J42	: C		116/3	-ECU-B.J42	: C		116/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	Screen	116/5	-ECU-A	: Screen to Frame		116/4	-ECU-B	: Screen to Frame		116/8	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX1TSA-B	1	126/1	ECC-1-X1TSA-B	: 1		125/8	-ECU-B.J44	: A	ID 4001-B	126/1	2x2,5mm²	EN700AC 0225
-ECU-B-WX1TSA-B	2	126/1	ECC-1-X1TSA-B	: 2		125/8	-ECU-B.J44	: D		126/2	2x2,5mm²	EN700AC 0225
-ECU-B-WX1TSA-B	Screen	126/1	ECC-1	: Screen to FE-Busbar		125/8	-ECU-B	: Screen to Frame		126/2	2x2,5mm²	EN700AC 0225
-ECU-B-WX2TSA-B	1	126/1	ECC-1-X2TSA-B	: 1		125/8	-ECU-B.J45	: B		126/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	2	126/1	ECC-1-X2TSA-B	: 2		125/8	-ECU-B.J45	: C		126/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	3	126/1	ECC-1-X2TSA-B	: 3		125/8	-ECU-B.J44	: B		126/1	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	4	126/1	ECC-1-X2TSA-B	: 4		125/8	-ECU-B.J44	: C		126/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	5	126/1	ECC-1-X2TSA-B	: 5		125/8	-ECU-B.J47	: B		126/4	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	6	126/1	ECC-1-X2TSA-B	: 6		125/8	-ECU-B.J47	: C		126/4	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	7	126/1	ECC-1-X2TSA-B	: 7		125/8	-ECU-B.J46	: B		126/3	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	8	126/1	ECC-1-X2TSA-B	: 8		125/8	-ECU-B.J46	: C		126/3	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	Screen	126/1	ECC-1	: Screen to FE-Busbar		125/8	-ECU-B	: Screen to Frame		126/4	4x2x0.75mm²	EN700AA 0407
-EICU-A --> B-WNET-A	1	90/5	-EICU-A-XNET-A	: 3		90/4	-EICU-B-XNET-A	: 1		90/5	1x2x0.75mm²	EN700AF 0107
-EICU-A --> B-WNET-A	2	90/5	-EICU-A-XNET-A	: 4		90/4	-EICU-B-XNET-A	: 2		90/5	1x2x0.75mm²	EN700AF 0107
-EICU-A --> B-WNET-A	Screen	90/5	-EICU-A-XNET-A	: S		90/4	-EICU-B-XNET-A	: S		90/5	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 191(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-EICU-A-WNET-A	1	90/2	-EICU-A-XNET-A : 1		90/1	-EICU-A.J65 : A	Line A	90/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-A	2	90/2	-EICU-A-XNET-A : 2		90/1	-EICU-A.J65 : B		90/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-A	Screen	90/2	-EICU-A-XNET-A : S		90/1	-EICU-A.J65 : C		90/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	1	98/6	-EICU-A-XNET-B : 1		98/5	-EICU-A.J65 : A	Line B	98/6	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	2	98/6	-EICU-A-XNET-B : 2		98/5	-EICU-A.J65 : B		98/6	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	Screen	98/6	-EICU-A-XNET-B : S		98/5	-EICU-A.J65 : C		98/6	1x2x0.75mm²	EN700AF 0107
-EICU-A-WRCS	1	163/2	-EICU-A.RS422 : A	RS422	163/2	EICC-XRCS-A : 1		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WRCS	2	163/2	-EICU-A.RS422 : C		163/2	EICC-XRCS-A : 2		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WRCS	3	163/2	-EICU-A.RS422 : D		163/2	EICC-XRCS-A : 3		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WRCS	4	163/2	-EICU-A.RS422 : E		163/2	EICC-XRCS-A : 4		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WRCS	5	163/2	-EICU-A.RS422 : F		163/2	EICC-XRCS-A : 5		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WRCS	Screen	163/2	-EICU-A.RS422 : H		163/2	EICC-XRCS-A : 6		163/2	5x0.75mm²	EN700AC 0507
-EICU-A-WXNET-A	1	90/3	-EICU-A.J65 : A	Line A	90/3	-EICU-A-XNET-A : 3		90/4	1x2x0.75mm²	EN700AF 0107
-EICU-A-WXNET-A	2	90/3	-EICU-A.J65 : B		90/3	-EICU-A-XNET-A : 4		90/4	1x2x0.75mm²	EN700AF 0107
-EICU-A-WXNET-A	Screen	90/3	-EICU-A.J65 : C		90/3	-EICU-A-XNET-A : S		90/4	1x2x0.75mm²	EN700AF 0107
-EICU-A-WXNET-B	1	98/7	-EICU-A.J65 : A	Line B	98/6	-EICU-A-XNET-B : 4		98/8	1x2x0.75mm²	EN700AF 0107
-EICU-A-WXNET-B	2	98/7	-EICU-A.J65 : B		98/6	-EICU-A-XNET-B : 5		98/8	1x2x0.75mm²	EN700AF 0107
-EICU-A-WXNET-B	Screen	98/7	-EICU-A.J65 : C		98/6	-EICU-A-XNET-B : 6		98/8	1x2x0.75mm²	EN700AF 0107
-EICU-B --> A-WNET-B	1	98/5	-EICU-B-XNET-B : 3		98/4	-EICU-A-XNET-B : 1		98/5	1x2x0.75mm²	EN700AF 0107
-EICU-B --> A-WNET-B	2	98/5	-EICU-B-XNET-B : 4		98/4	-EICU-A-XNET-B : 2		98/5	1x2x0.75mm²	EN700AF 0107
-EICU-B --> A-WNET-B	Screen	98/5	-EICU-B-XNET-B : S		98/4	-EICU-A-XNET-B : S		98/5	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-A	1	90/6	-EICU-B-XNET-A : 1		90/5	-EICU-B.J65 : A	Line A	90/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-A	2	90/6	-EICU-B-XNET-A : 2		90/5	-EICU-B.J65 : B		90/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-A	Screen	90/6	-EICU-B-XNET-A : S		90/5	-EICU-B.J65 : C		90/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	1	98/2	-EICU-B-XNET-B : 1		98/1	-EICU-B.J65 : A	Line B	98/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	2	98/2	-EICU-B-XNET-B : 2		98/1	-EICU-B.J65 : B		98/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	Screen	98/2	-EICU-B-XNET-B : 3		98/1	-EICU-B.J65 : C		98/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WRCS	1	163/7	-EICU-B.RS422 : A	RS422	163/7	EICC-XRCS-B : 1		163/7	5x0.75mm²	EN700AC 0507
-EICU-B-WRCS	2	163/7	-EICU-B.RS422 : C		163/7	EICC-XRCS-B : 2		163/7	5x0.75mm²	EN700AC 0507
-EICU-B-WRCS	3	163/7	-EICU-B.RS422 : D		163/7	EICC-XRCS-B : 3		163/7	5x0.75mm²	EN700AC 0507
-EICU-B-WRCS	4	163/7	-EICU-B.RS422 : E		163/7	EICC-XRCS-B : 4		163/7	5x0.75mm²	EN700AC 0507
-EICU-B-WRCS	5	163/7	-EICU-B.RS422 : F		163/7	EICC-XRCS-B : 5		163/7	5x0.75mm²	EN700AC 0507
-EICU-B-WRCS	Screen	163/7	-EICU-B.RS422 : H		163/7	EICC-XRCS-B : 6		163/7	5x0.75mm²	EN700AC 0507

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 192(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-EICU-B-WXNET-A	1	90/7	-EICU-B.J65	: A	Line A	90/6	-EICU-B-XNET-A	: 4		90/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-A	2	90/7	-EICU-B.J65	: B		90/6	-EICU-B-XNET-A	: 5		90/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-A	Screen	90/7	-EICU-B.J65	: C		90/6	-EICU-B-XNET-A	: 6		90/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	1	98/3	-EICU-B.J65	: A	Line B	98/3	-EICU-B-XNET-B	: 3		98/4	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	2	98/3	-EICU-B.J65	: B		98/3	-EICU-B-XNET-B	: 4		98/4	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	Screen	98/3	-EICU-B.J65	: C		98/3	-EICU-B-XNET-B	: S		98/4	1x2x0.75mm²	EN700AF 0107
-MOP-A-WNET-A	1	89/5	-MOP-B	: 3	Line A	89/3	-MOP-A	: 3	Line A	89/6	1x2x0.75mm²	EN700AF 0107
-MOP-A-WNET-A	2	89/5	-MOP-B	: 8		89/3	-MOP-A	: 8		89/6	1x2x0.75mm²	EN700AF 0107
-MOP-A-WNET-A	Screen	89/5	-MOP-B	: Screen in Frame		89/3	-MOP-A	: Screen in Frame		89/6	1x2x0.75mm²	EN700AF 0107
-MOP-B-WNET-B	1	97/5	-MOP-A	: 3	Line B	97/3	-MOP-B	: 3	Line B	97/6	1x2x0.75mm²	EN700AF 0107
-MOP-B-WNET-B	2	97/5	-MOP-A	: 8		97/3	-MOP-B	: 8		97/6	1x2x0.75mm²	EN700AF 0107
-MOP-B-WNET-B	Screen	97/5	-MOP-A	: Screen in Frame		97/3	-MOP-B	: Screen in Frame		97/6	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	1	92/2	-EICU-B-XNET-A	: 4		90/8	-SCU.J65	: A	Line A	92/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	2	92/2	-EICU-B-XNET-A	: 5		90/8	-SCU.J65	: B		92/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	Screen	92/2	-EC-MOP-A	: Screen in Frame		89/6	-SCU.J65	: C		92/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	1	100/3	-ACU-2.J65	: A	Line B	100/4	-SCU.J65	: A	Line B	100/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	2	100/3	-ACU-2.J65	: B		100/5	-SCU.J65	: B		100/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	Screen	100/3	-ACU-2.J65	: C		100/5	-SCU.J65	: C		100/3	1x2x0.75mm²	EN700AF 0107
-TSA-A-W1	1	115/5	ECC-1-X1TSA-A	: 1		115/8	-TSA-A	: A	J5	115/4	2x0.75mm²	EN700AC 0207
-TSA-A-W1	2	115/5	ECC-1-X1TSA-A	: 2		115/8	-TSA-A	: J	J5	115/4	2x0.75mm²	EN700AC 0207
-TSA-A-W1	Screen	115/5	ECC-1	: Screen to FE-Busbar		115/7	-TSA-A	: Screen in gland		115/3	2x0.75mm²	EN700AC 0207
-TSA-A-W2	1	115/5	ECC-1-X2TSA-A	: 1		115/8	-TSA-A	: B	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	2	115/5	ECC-1-X2TSA-A	: 2		115/8	-TSA-A	: C	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	3	115/5	ECC-1-X2TSA-A	: 3		115/8	-TSA-A	: D	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	4	115/5	ECC-1-X2TSA-A	: 4		115/8	-TSA-A	: E	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	5	115/5	ECC-1-X2TSA-A	: 5		115/8	-TSA-A	: F	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	6	115/5	ECC-1-X2TSA-A	: 6		115/8	-TSA-A	: G	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	7	115/5	ECC-1-X2TSA-A	: 7		115/8	-TSA-A	: H	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	8	115/5	ECC-1-X2TSA-A	: 8		115/8	-TSA-A	: I	J5	115/4	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	Screen	115/5	ECC-1	: Screen to FE-Busbar		115/7	-TSA-A	: Screen in gland		115/3	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 193(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal		Page/Grid	Type	Part no.
-TSA-A-WENC-A	1 1.BK	115/2	-TSA-A	: C	J3	115/2	-TSA-A-ENC A	: C		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	2 1.BU	115/2	-TSA-A	: B	J3	115/2	-TSA-A-ENC A	: B		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	5 3.BK	115/2	-TSA-A	: C	J1	115/2	-TSA-A-ENC A	: J		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	6 3.BU	115/2	-TSA-A	: B	J1	115/2	-TSA-A-ENC A	: H		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	7 4.BK	115/2	-TSA-A	: C	J2	115/2	-TSA-A-ENC A	: M		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	8 4.BU	115/2	-TSA-A	: B	J2	115/2	-TSA-A-ENC A	: L		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	9 5.BK	115/2	-TSA-A	: D	J1	115/2	-TSA-A-ENC A	: P		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	10 5.BU	115/2	-TSA-A	: A	J1	115/2	-TSA-A-ENC A	: R		115/1	4x2x0,50mm²	Encoder cable
-TSA-A-WENC-A	Screen	115/2	-TSA-A	: Screen in gland		115/2	-TSA-A-ENC A	: Screen in gland		115/0	4x2x0,50mm²	Encoder cable
-TSA-A-WMSA	1	115/2	-TSA-A	: B	J4	115/2	-MSA-X1	: 2		115/1	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	2	115/2	-TSA-A	: C	J4	115/2	-MSA-X1	: 3		115/1	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	3	115/2	-TSA-A	: D	J4	115/2	-MSA-X1	: 1		115/1	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	Screen	115/2	-TSA-A	: Screen in gland		115/2	-MSA	: Screen in gland		115/1	3x0,75mm²	EN700AC 0307
-TSA-B-W1	1	125/5	ECC-1-X1TSA-B	: 1		125/8	-TSA-B	: A	J5	125/4	2x0.75mm²	EN700AC 0207
-TSA-B-W1	2	125/5	ECC-1-X1TSA-B	: 2		125/8	-TSA-B	: J	J5	125/4	2x0.75mm²	EN700AC 0207
-TSA-B-W1	Screen	125/5	ECC-1	: Screen to FE-Busbar		125/7	-TSA-B	: Screen in gland		125/3	2x0.75mm²	EN700AC 0207
-TSA-B-W2	1	125/5	ECC-1-X2TSA-B	: 1		125/8	-TSA-B	: B	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	2	125/5	ECC-1-X2TSA-B	: 2		125/8	-TSA-B	: C	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	3	125/5	ECC-1-X2TSA-B	: 3		125/8	-TSA-B	: D	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	4	125/5	ECC-1-X2TSA-B	: 4		125/8	-TSA-B	: E	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	5	125/5	ECC-1-X2TSA-B	: 5		125/8	-TSA-B	: F	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	6	125/5	ECC-1-X2TSA-B	: 6		125/8	-TSA-B	: G	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	7	125/5	ECC-1-X2TSA-B	: 7		125/8	-TSA-B	: H	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	8	125/5	ECC-1-X2TSA-B	: 8		125/8	-TSA-B	: I	J5	125/4	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	Screen	125/5	ECC-1	: Screen to FE-Busbar		125/7	-TSA-B	: Screen in gland		125/3	4x2x0.75mm²	EN700AA 0407
-TSA-B-WENC-B	1 1.BK	125/2	-TSA-B	: C	J3	125/2	-TSA-B-ENC B	: C		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	2 1.BU	125/2	-TSA-B	: B	J3	125/2	-TSA-B-ENC B	: B		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	3 2.BK	125/2	-TSA-B	: C	J4	125/2	-TSA-B-ENC B	: F		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	4 2.BU	125/2	-TSA-B	: B	J4	125/2	-TSA-B-ENC B	: E		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	5 3.BK	125/2	-TSA-B	: C	J1	125/2	-TSA-B-ENC B	: J		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	6 3.BU	125/2	-TSA-B	: B	J1	125/2	-TSA-B-ENC B	: H		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	7 4.BK	125/2	-TSA-B	: C	J2	125/2	-TSA-B-ENC B	: M		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	8 4.BU	125/2	-TSA-B	: B	J2	125/2	-TSA-B-ENC B	: L		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	9 5.BK	125/2	-TSA-B	: D	J1	125/2	-TSA-B-ENC B	: P		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	10 5.BU	125/2	-TSA-B	: A	J1	125/2	-TSA-B-ENC B	: R		125/1	4x2x0.50mm²	Encoder cable
-TSA-B-WENC-B	Screen	125/2	-TSA-B	: Screen in gland		125/2	-TSA-B-ENC B	: Screen in gland		125/0	4x2x0.50mm²	Encoder cable

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 194(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-W1110-A	1	27/2	-ACU-1.J22 : C	27/2	-ZS 1110-A : 13	27/2	5x0.75mm²	EN700AC 0507
-W1110-A	2	27/2	-ACU-1.J22 : D	27/2	-ZS 1110-A : 14	27/2	5x0.75mm²	EN700AC 0507
-W1110-A	3	28/2	-ACU-1.J23 : C	28/2	-ZS 1109-A : 13	28/2	5x0.75mm²	EN700AC 0507
-W1110-A	4	28/2	-ACU-1.J23 : D	28/2	-ZS 1109-A : 14	28/2	5x0.75mm²	EN700AC 0507
-W1110-A	Screen	28/2	ECC-1 : EMC Bus bar	28/2	-ZS 1109-A : Sceen	28/2	5x0.75mm²	EN700AC 0507
-W1110-B	1	27/7	-ACU-2.J22 : C	27/7	-ZS 1110-B : 33	27/7	5x0.75mm²	EN700AC 0507
-W1110-B	2	27/7	-ACU-2.J22 : D	27/7	-ZS 1110-B : 34	27/7	5x0.75mm²	EN700AC 0507
-W1110-B	3	28/7	-ACU-2.J23 : C	28/7	-ZS 1109-B : 33	28/7	5x0.75mm²	EN700AC 0507
-W1110-B	4	28/7	-ACU-2.J23 : D	28/7	-ZS 1109-B : 34	28/7	5x0.75mm²	EN700AC 0507
-W1110-B	Screen	28/7	ECC-1 : EMC Bus bar	28/7	-ZS 1109-B : Sceen	28/7	5x0.75mm²	EN700AC 0507
-W1111-A	1	32/2	-ACU-1.J21 : C	32/2	-ZS 1111-A : NC	32/2	2x0.75mm²	EN700AC 0207
-W1111-A	2	32/2	-ACU-1.J21 : D	32/2	-ZS 1111-A : NC	32/2	2x0.75mm²	EN700AC 0207
-W1111-A	Screen	32/2	ECC-1 : EMC Bus bar	32/2	-ZS 1111-A : Sceen	32/2	2x0.75mm²	EN700AC 0207
-W1111-B	1	32/7	-ACU-2.J21 : C	32/7	-ZS 1111-B : NC	32/7	2x0.75mm²	EN700AC 0207
-W1111-B	2	32/7	-ACU-2.J21 : D	32/7	-ZS 1111-B : NC	32/7	2x0.75mm²	EN700AC 0207
-W1111-B	Screen	32/7	ECC-1 : EMC Bus bar	32/7	-ZS 1111-B : Sceen	32/7	2x0.75mm²	EN700AC 0207
-W1112-A	1	31/2	-ACU-1.J24 : C	31/2	-ZS 1112-A : NO	31/2	2x0.75mm²	EN700AC 0207
-W1112-A	2	31/2	-ACU-1.J24 : D	31/2	-ZS 1112-A : NO	31/2	2x0.75mm²	EN700AC 0207
-W1112-A	Screen	31/2	ECC-1 : EMC Bus bar	31/2	-ZS 1112-A : Sceen	31/2	2x0.75mm²	EN700AC 0207
-W1112-B	1	31/7	-ACU-2.J24 : C	31/7	-ZS 1112-B : NO	31/7	2x0.75mm²	EN700AC 0207
-W1112-B	2	31/7	-ACU-2.J24 : D	31/7	-ZS 1112-B : NO	31/7	2x0.75mm²	EN700AC 0207
-W1112-B	Screen	31/7	ECC-1 : EMC Bus bar	31/7	-ZS 1112-B : Sceen	31/7	2x0.75mm²	EN700AC 0207
-W1114	1	33/2	-ECU-A.J80 : B	33/3	-ZV 1114 : 1	33/2	2x0.75mm²	EN700AC 0207
-W1114	2	33/2	-ECU-A.J03 : A	33/2	-ZV 1114 : 2	33/2	2x0.75mm²	EN700AC 0207
-W1114	Screen	33/2	ECC-1 : EMC Bus bar	33/2	-ZV 1114 : NC	33/2	2x0.75mm²	EN700AC 0207
-W1116-A	1	30/2	-ACU-1.J25 : C	30/2	-ZS 1116-A : 13	30/2	2x0.75mm²	EN700AC 0207
-W1116-A	2	30/2	-ACU-1.J25 : D	30/2	-ZS 1116-A : 14	30/2	2x0.75mm²	EN700AC 0207
-W1116-A	Screen	30/2	ECC-1 : EMC Bus bar	30/2	-ZS 1116-A : Sceen	30/2	2x0.75mm²	EN700AC 0207
-W1116-B	1	30/7	-ACU-2.J25 : C	30/7	-ZS 1116-B : 33	30/7	2x0.75mm²	EN700AC 0207
-W1116-B	2	30/7	-ACU-2.J25 : D	30/7	-ZS 1116-B : 34	30/7	2x0.75mm²	EN700AC 0207
-W1116-B	Screen	30/7	ECC-1 : EMC Bus bar	30/7	-ZS 1116-B : Sceen	30/7	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 195(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W1117-A	1	29/2	-ECU-A.J32	: C		29/2	-ZS 1117-A	: 13	29/2	2x0.75mm²	EN700AC 0207
-W1117-A	2	29/2	-ECU-A.J32	: D		29/2	-ZS 1117-A	: 14	29/2	2x0.75mm²	EN700AC 0207
-W1117-A	Screen	29/2	ECC-1	: EMC Bus bar		29/2	-ZS 1117-A	: Sceen	29/2	2x0.75mm²	EN700AC 0207
-W1117-B	1	29/7	-ECU-B.J32	: C		29/7	-ZS 1117-B	: 33	29/7	2x0.75mm²	EN700AC 0207
-W1117-B	2	29/7	-ECU-B.J32	: D		29/7	-ZS 1117-B	: 34	29/7	2x0.75mm²	EN700AC 0207
-W1117-B	Screen	29/7	ECC-1	: EMC Bus bar		29/7	-ZS 1117-B	: Sceen	29/7	2x0.75mm²	EN700AC 0207
-W1120-n	1	77/7	HCU-n-XHCU	: 26	1	77/7	-ZV 1120-n	: 1	77/7	2x0.75mm²	EN700AC 0207
-W1120-n	2	77/7	HCU-n-XHCU	: 27	2	77/7	-ZV 1120-n	: 2	77/7	2x0.75mm²	EN700AC 0207
-W1120-n	Screen	77/7	HCU-n	: Screen in gland		77/7	-ZV 1120-n	: NC	77/7	2x0.75mm²	EN700AC 0207
-W1121-A	1	34/2	-ECU-A.J82	: B		34/3	-ZV 1121-A	: 1	34/2	2x0.75mm²	EN700AC 0207
-W1121-A	2	34/2	-ECU-A.J04	: A		34/2	-ZV 1121-A	: 2	34/2	2x0.75mm²	EN700AC 0207
-W1121-A	Screen	34/2	ECC-1	: EMC Bus bar		34/2	-ZV 1121-A	: NC	34/2	2x0.75mm²	EN700AC 0207
-W1121-B	1	34/6	-ECU-B.J82	: B		34/8	-ZV 1121-B	: 1	34/6	2x0.75mm²	EN700AC 0207
-W1121-B	2	34/7	-ECU-B.J04	: A		34/6	-ZV 1121-B	: 2	34/7	2x0.75mm²	EN700AC 0207
-W1121-B	Screen	34/7	ECC-1	: EMC Bus bar		34/7	-ZV 1121-B	: NC	34/7	2x0.75mm²	EN700AC 0207
-W1201-1	1	43/6	HPS-XHPS	: 11	1	43/6	-PT 1201-1	: 1	43/6	2x0.75mm²	EN700AC 0207
-W1201-1	2	43/6	HPS-XHPS	: 12	2	43/6	-PT 1201-1	: 2	43/6	2x0.75mm²	EN700AC 0207
-W1201-1	Screen	43/6	HPS	: Screen in gland		43/6	-PT 1201-1	: NC	43/6	2x0.75mm²	EN700AC 0207
-W1201-2	1	44/6	HPS-XHPS	: 25	1	44/6	-PT 1201-2	: 1	44/6	2x0.75mm²	EN700AC 0207
-W1201-2	2	44/6	HPS-XHPS	: 26	2	44/6	-PT 1201-2	: 2	44/6	2x0.75mm²	EN700AC 0207
-W1201-2	Screen	44/6	HPS	: Screen in gland		44/6	-PT 1201-2	: NC	44/6	2x0.75mm²	EN700AC 0207
-W1201-3	1	45/6	HPS-XHPS	: 39	1	45/6	-PT 1201-3	: 1	45/6	2x0.75mm²	EN700AC 0207
-W1201-3	2	45/6	HPS-XHPS	: 40	2	45/6	-PT 1201-3	: 2	45/6	2x0.75mm²	EN700AC 0207
-W1201-3	Screen	45/6	HPS	: Screen in gland		45/6	-PT 1201-3	: NC	45/6	2x0.75mm²	EN700AC 0207
-W1202-A	1	48/2	HPS-XHPS	: 51	1	48/2	-ZV1202-A	: +1	48/2	2x0.75mm²	EN700AC 0207
-W1202-A	2	48/2	HPS-XHPS	: 52	2	48/2	-ZV1202-A	: -2	48/2	2x0.75mm²	EN700AC 0207
-W1202-A	Screen	48/2	HPS	: Screen in gland		48/2	-ZV1202-A	: PE	48/2	2x0.75mm²	EN700AC 0207
-W1202-B	1	48/7	HPS-XHPS	: 53	1	48/7	-ZV1202-B	: +1	48/7	2x0.75mm²	EN700AC 0207
-W1202-B	2	48/7	HPS-XHPS	: 54	2	48/7	-ZV1202-B	: -2	48/7	2x0.75mm²	EN700AC 0207
-W1202-B	Screen	48/7	HPS	: Screen in gland		48/7	-ZV1202-B	: PE	48/7	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 196(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W1204-1	1	43/7	HPS-XHPS	: 13	1	43/7	-PT 1204-1	: 1	43/7	2x0.75mm²	EN700AC 0207
-W1204-1	2	43/8	HPS-XHPS	: 14	2	43/8	-PT 1204-1	: 2	43/8	2x0.75mm²	EN700AC 0207
-W1204-1	Screen	43/8	HPS	: Screen in gland		43/8	-PT 1204-1	: NC	43/8	2x0.75mm²	EN700AC 0207
-W1204-2	1	44/7	HPS-XHPS	: 27	1	44/7	-PT 1204-2	: 1	44/7	2x0.75mm²	EN700AC 0207
-W1204-2	2	44/8	HPS-XHPS	: 28	2	44/8	-PT 1204-2	: 2	44/8	2x0.75mm²	EN700AC 0207
-W1204-2	Screen	44/8	HPS	: Screen in gland		44/8	-PT 1204-2	: NC	44/8	2x0.75mm²	EN700AC 0207
-W1204-3	1	45/7	HPS-XHPS	: 41	1	45/7	-PT 1204-3	: 1	45/7	2x0.75mm²	EN700AC 0207
-W1204-3	2	45/8	HPS-XHPS	: 42	2	45/8	-PT 1204-3	: 2	45/8	2x0.75mm²	EN700AC 0207
-W1204-3	Screen	45/8	HPS	: Screen in gland		45/8	-PT 1204-3	: NC	45/8	2x0.75mm²	EN700AC 0207
-W1204-4	1	46/2	HPS-XHPS	: 43	1	46/2	-PT 1204-4	: 1	46/2	2x0.75mm²	EN700AC 0207
-W1204-4	2	46/2	HPS-XHPS	: 44	2	46/2	-PT 1204-4	: 2	46/2	2x0.75mm²	EN700AC 0207
-W1204-4	Screen	46/2	HPS	: Screen in gland		46/2	-PT 1204-4	: NC	46/2	2x0.75mm²	EN700AC 0207
-W1204-5	1	46/6	HPS-XHPS	: 45	1	46/6	-PT 1204-5	: 1	46/6	2x0.75mm²	EN700AC 0207
-W1204-5	2	46/6	HPS-XHPS	: 46	2	46/6	-PT 1204-5	: 2	46/6	2x0.75mm²	EN700AC 0207
-W1204-5	Screen	46/7	HPS	: Screen in gland		46/7	-PT 1204-5	: NC	46/7	2x0.75mm²	EN700AC 0207
-W1222-1	1	43/4	HPS-XHPS	: 7	1	43/4	-ZT 1222-1	: 1	43/4	5x0,75mm²	Sensor cable tail
-W1222-1	2	43/4	HPS-XHPS	: 8	2	43/4	-ZT 1222-1	: 2	43/4	5x0,75mm²	Sensor cable tail
-W1222-1	3	43/4	HPS-XHPS	: 9	3	43/4	-ZT 1222-1	: 3	43/4	5x0,75mm²	Sensor cable tail
-W1222-1	4	43/5	HPS-XHPS	: 10	4	43/5	-ZT 1222-1	: 4	43/5	5x0,75mm²	Sensor cable tail
-W1222-1	Screen	43/5	HPS	: Screen in gland		43/5	-ZT 1222-1	: Screen	43/5	5x0,75mm²	Sensor cable tail
-W1222-2	1	44/4	HPS-XHPS	: 21	1	44/4	-ZT 1222-2	: 1	44/4	5x0,75mm²	Sensor cable tail
-W1222-2	2	44/4	HPS-XHPS	: 22	2	44/4	-ZT 1222-2	: 2	44/4	5x0,75mm²	Sensor cable tail
-W1222-2	3	44/4	HPS-XHPS	: 23	3	44/4	-ZT 1222-2	: 3	44/4	5x0,75mm²	Sensor cable tail
-W1222-2	4	44/5	HPS-XHPS	: 24	4	44/5	-ZT 1222-2	: 4	44/5	5x0,75mm²	Sensor cable tail
-W1222-2	Screen	44/5	HPS	: Screen in gland		44/5	-ZT 1222-2	: Screen	44/5	5x0,75mm²	Sensor cable tail
-W1222-3	1	45/4	HPS-XHPS	: 35	1	45/4	-ZT 1222-3	: 1	45/4	5x0,75mm²	Sensor cable tail
-W1222-3	2	45/4	HPS-XHPS	: 36	2	45/4	-ZT 1222-3	: 2	45/4	5x0,75mm²	Sensor cable tail
-W1222-3	3	45/4	HPS-XHPS	: 37	3	45/4	-ZT 1222-3	: 3	45/4	5x0,75mm²	Sensor cable tail
-W1222-3	4	45/5	HPS-XHPS	: 38	4	45/5	-ZT 1222-3	: 4	45/5	5x0,75mm²	Sensor cable tail
-W1222-3	Screen	45/5	HPS	: Screen in gland		45/5	-ZT 1222-3	: Screen	45/5	5x0,75mm²	Sensor cable tail

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 197(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W1235	1	49/7	HPS-XHPS	: 59	1	49/7	-LS 1235	: 1	49/7	5x0.75mm²	EN700AC 0507
-W1235	2	49/7	HPS-XHPS	: 60	2	49/7	-LS 1235	: 2	49/7	5x0.75mm²	EN700AC 0507
-W1235	3	49/7	HPS-XHPS	: 61	3	49/7	-LS 1235	: 2	49/7	5x0.75mm²	EN700AC 0507
-W1235	4	49/7	HPS-XHPS	: 62	4	49/7	-LS 1235	: 4	49/7	5x0.75mm²	EN700AC 0507
-W1235	Screen	49/7	HPS	: Screen in gland		49/7	-LS 1235	: Screen	49/7	5x0.75mm²	EN700AC 0507
-W1236	1	49/2	HPS-XHPS	: 55	1	49/2	-LS 1236	: 1	49/2	5x0.75mm²	EN700AC 0507
-W1236	2	49/2	HPS-XHPS	: 56	2	49/2	-LS 1236	: 2	49/2	5x0.75mm²	EN700AC 0507
-W1236	3	49/2	HPS-XHPS	: 57	3	49/2	-LS 1236	: 2	49/2	5x0.75mm²	EN700AC 0507
-W1236	4	49/2	HPS-XHPS	: 58	4	49/2	-LS 1236	: 4	49/2	5x0.75mm²	EN700AC 0507
-W1236	Screen	49/2	HPS	: Screen in gland		49/3	-LS 1236	: Screen	49/3	5x0.75mm²	EN700AC 0507
-W1240-1	1	43/2	HPS-XHPS	: 1	1	43/1	-XC 1240-1	: 1	43/2	4x2x0.75mm²	Valve cable tail
-W1240-1	2	43/2	HPS-XHPS	: 2	2	43/1	-XC 1240-1	: 2	43/2	4x2x0.75mm²	Valve cable tail
-W1240-1	3	43/3	HPS-XHPS	: 3	3	43/3	-XC 1240-1	: 3	43/3	4x2x0.75mm²	Valve cable tail
-W1240-1	4	43/3	HPS-XHPS	: 4	4	43/3	-XC 1240-1	: 4	43/3	4x2x0.75mm²	Valve cable tail
-W1240-1	5	43/3	HPS-XHPS	: 5	5	43/3	-XC 1240-1	: 5	43/3	4x2x0.75mm²	Valve cable tail
-W1240-1	6	43/3	HPS-XHPS	: 6	6	43/3	-XC 1240-1	: 6	43/3	4x2x0.75mm²	Valve cable tail
-W1240-1	Screen	43/3	HPS	: Screen in gland		43/3	-XC 1240-1	: Screen	43/3	4x2x0.75mm²	Valve cable tail
-W1240-2	1	44/2	HPS-XHPS	: 15	1	44/1	-XC 1240-2	: 1	44/2	4x2x0.75mm²	Valve cable tail
-W1240-2	2	44/2	HPS-XHPS	: 16	2	44/1	-XC 1240-2	: 2	44/2	4x2x0.75mm²	Valve cable tail
-W1240-2	3	44/3	HPS-XHPS	: 17	1	44/3	-XC 1240-2	: 3	44/3	4x2x0.75mm²	Valve cable tail
-W1240-2	4	44/3	HPS-XHPS	: 18	2	44/3	-XC 1240-2	: 4	44/3	4x2x0.75mm²	Valve cable tail
-W1240-2	5	44/3	HPS-XHPS	: 19	3	44/3	-XC 1240-2	: 5	44/3	4x2x0.75mm²	Valve cable tail
-W1240-2	6	44/3	HPS-XHPS	: 20	4	44/3	-XC 1240-2	: 6	44/3	4x2x0.75mm²	Valve cable tail
-W1240-2	Screen	44/3	HPS	: Screen in gland		44/3	-XC 1240-2	: Screen	44/3	4x2x0.75mm²	Valve cable tail
-W1240-3	1	45/2	HPS-XHPS	: 29	1	45/1	-XC 1240-3	: 1	45/2	4x2x0.75mm²	Valve cable tail
-W1240-3	2	45/2	HPS-XHPS	: 30	2	45/1	-XC 1240-3	: 2	45/2	4x2x0.75mm²	Valve cable tail
-W1240-3	3	45/3	HPS-XHPS	: 31	1	45/3	-XC 1240-3	: 3	45/3	4x2x0.75mm²	Valve cable tail
-W1240-3	4	45/3	HPS-XHPS	: 32	2	45/3	-XC 1240-3	: 4	45/3	4x2x0.75mm²	Valve cable tail
-W1240-3	5	45/3	HPS-XHPS	: 33	3	45/3	-XC 1240-3	: 5	45/3	4x2x0.75mm²	Valve cable tail
-W1240-3	6	45/3	HPS-XHPS	: 34	4	45/3	-XC 1240-3	: 6	45/3	4x2x0.75mm²	Valve cable tail
-W1240-3	Screen	45/3	HPS	: Screen in gland		45/3	-XC 1240-3	: Screen	45/3	4x2x0.75mm²	Valve cable tail
-W1243-A	1	47/1	HPS-XHPS	: 47	1	47/1	-ZV 1243-A	: +1	47/1	2x0.75mm²	EN700AC 0207
-W1243-A	2	47/1	HPS-XHPS	: 48	2	47/1	-ZV 1243-A	: -2	47/1	2x0.75mm²	EN700AC 0207
-W1243-A	Screen	47/2	HPS	: Screen in gland		47/2	-ZV 1243-A	: PE	47/2	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 198(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W1243-B	1	47/6	HPS-XHPS	: 49	1	47/6	-ZV 1243-B	: +1	47/6	2x0.75mm²	EN700AC 0207
-W1243-B	2	47/6	HPS-XHPS	: 50	2	47/6	-ZV 1243-B	: -2	47/6	2x0.75mm²	EN700AC 0207
-W1243-B	Screen	47/6	HPS	: Screen in gland		47/6	-ZV 1243-B	: PE	47/6	2x0.75mm²	EN700AC 0207
-W2150.1-A	1	26/2	-ECU-A.J22	: C		26/2	-LT-XC 2151-A	: 1	26/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	2	26/2	-ECU-A.J22	: D		26/2	-LT-XC 2151-A	: 2	26/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	3	36/2	-ECU-A.J26	: A	ID 2150-A	36/2	-LT-XC 2150-A	: 0V	36/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	4	36/2	-ECU-A.J26	: B		36/2	-LT-XC 2150-A	: -mA	36/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	5	36/2	-ECU-A.J26	: C		36/2	-LT-XC 2150-A	: +mA	36/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	6	36/2	-ECU-A.J26	: D		36/2	-LT-XC 2150-A	: +24V	36/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	Screen	36/2	ECC-1	: EMC Bus bar		36/2	-LT	: Screen in gland	36/2	7x0.75mm²	EN700AC 0707
-W2150.1-B	1	26/7	-ECU-B.J22	: C		26/7	-LT-XC 2151-B	: 1	26/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	2	26/7	-ECU-B.J22	: D		26/7	-LT-XC 2151-B	: 2	26/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	3	36/6	-ECU-B.J26	: A	ID 2150-B	36/6	-LT-XC 2150-B	: 0V	36/6	7x0.75mm²	EN700AC 0707
-W2150.1-B	4	36/6	-ECU-B.J26	: B		36/6	-LT-XC 2150-B	: -mA	36/6	7x0.75mm²	EN700AC 0707
-W2150.1-B	5	36/7	-ECU-B.J26	: C		36/7	-LT-XC 2150-B	: +mA	36/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	6	36/7	-ECU-B.J26	: D		36/7	-LT-XC 2150-B	: +24V	36/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	Screen	36/7	ECC-1	: EMC Bus bar		36/7	-LT	: Screen in gland	36/7	7x0.75mm²	EN700AC 0707
-W4102-n	1	74/5	HCU-n-XHCU	: 9	1	74/5	-ZT 4102-n	: 1	74/5		Sensor cable tail
-W4102-n	2	74/5	HCU-n-XHCU	: 10	2	74/5	-ZT 4102-n	: 2	74/5		Sensor cable tail
-W4102-n	3	74/5	HCU-n-XHCU	: 11	3	74/5	-ZT 4102-n	: 3	74/5		Sensor cable tail
-W4102-n	4	74/5	HCU-n-XHCU	: 12	4	74/5	-ZT 4102-n	: 4	74/5		Sensor cable tail
-W4102-n	Screen	74/5	HCU-n	: Screen in gland		74/5	-ZT 4102-n	: Screen	74/5		Sensor cable tail
-W4107-n	1	74/2	HCU-n-XHCU	: 1	1	74/1	-XC 4107-n	: 1	74/2		Valve cable tail
-W4107-n	2	74/2	HCU-n-XHCU	: 2	2	74/1	-XC 4107-n	: 2	74/2		Valve cable tail
-W4107-n	3	74/2	HCU-n-XHCU	: 3	3	74/2	-XC 4107-n	: 3	74/2		Valve cable tail
-W4107-n	4	74/2	HCU-n-XHCU	: 4	4	74/2	-XC 4107-n	: 4	74/2		Valve cable tail
-W4107-n	5	74/2	HCU-n-XHCU	: 5	5	74/2	-XC 4107-n	: 5	74/2		Valve cable tail
-W4107-n	6	74/2	HCU-n-XHCU	: 6	6	74/2	-XC 4107-n	: 6	74/2		Valve cable tail
-W4107-n	7	74/2	HCU-n-XHCU	: 7	7	74/2	-XC 4107-n	: 7	74/2		Valve cable tail
-W4107-n	8	74/3	HCU-n-XHCU	: 8	8	74/3	-XC 4107-n	: 8	74/3		Valve cable tail
-W4107-n	Sceen	74/3	HCU-n	: Screen in gland		74/3	-XC 4107-n	: Screen	74/3		Valve cable tail
-W4111-n	1	76/6	HCU-n-XHCU	: 13	1	76/6	-ZT 4111-n	: 1	76/6		Sensor cable tail
-W4111-n	2	76/6	HCU-n-XHCU	: 14	2	76/6	-ZT 4111-n	: 2	76/6		Sensor cable tail
-W4111-n	3	76/6	HCU-n-XHCU	: 15	3	76/6	-ZT 4111-n	: 3	76/6		Sensor cable tail
-W4111-n	4	76/6	HCU-n-XHCU	: 16	4	76/6	-ZT 4111-n	: 4	76/6		Sensor cable tail
-W4111-n	Screen	76/6	HCU-n	: Screen in gland		76/6	-ZT 4111-n	: Screen	76/6		Sensor cable tail

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 199(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal	Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W4112-n	1	74/8	-CCU-n	: H	74/3	-PS 4112-N	: 1	74/8	2x0.75mm²	EN700AC 0207
-W4112-n	2	74/8	-CCU-n.J33	: D	74/8	-PS 4112-N	: 3	74/8	2x0.75mm²	EN700AC 0207
-W4112-n	SCREEN	74/8	-CCU-n	: EMC bus bar	74/8	-PS 4112-N	: Screen	74/8	2x0.75mm²	EN700AC 0207
-W4114-n	1	76/3	HCU-n-XHCU	: 9 1	76/3	-ZT 4114-n	: 1	76/3		Sensor cable tail
-W4114-n	2	76/3	HCU-n-XHCU	: 10 2	76/3	-ZT 4114-n	: 2	76/3		Sensor cable tail
-W4114-n	3	76/3	HCU-n-XHCU	: 11 3	76/3	-ZT 4114-n	: 3	76/3		Sensor cable tail
-W4114-n	4	76/3	HCU-n-XHCU	: 12 4	76/3	-ZT 4114-n	: 4	76/3		Sensor cable tail
-W4114-n	Screen	76/3	HCU-n	: Screen in gland	76/3	-ZT 4114-n	: Screen	76/3		Sensor cable tail
-W8281-n	1	77/2	-LUB-n	: 1	77/2	-ZV 8281-n	: 1	77/2	2x0.75mm²	EN700AC 0207
-W8281-n	2	77/2	-LUB-n	: 2	77/2	-ZV 8281-n	: 2	77/2	2x0.75mm²	EN700AC 0207
-W8281-n	Screen	77/2	-LUB-n	: Screen in gland	77/2	-ZV 8281-n	: NC	77/2	2x0.75mm²	EN700AC 0207
-W8285-n	1	77/4	-LUB-n	: 6	77/4	-LS 8285-n	: A	77/4	2x2x0.75mm²	Cable with plug
-W8285-n	2	77/4	-LUB-n	: 7	77/4	-LS 8285-n	: B	77/4	2x2x0.75mm²	Cable with plug
-W8285-n	3	77/4	-LUB-n	: 8	77/4	-LS 8285-n	: C	77/4	2x2x0.75mm²	Cable with plug
-W8285-n	4	77/4	-LUB-n	: 9	77/4	-LS 8285-n	: D	77/4	2x2x0.75mm²	Cable with plug
-W8285-n	Screen	77/4	-LUB-n	: Screen in gland	77/4	-LS 8285-n	: Screen	77/4	2x2x0.75mm²	Cable with plug
-W8287-A	1	35/2	-ECU-A.J52	: B	35/2	-ZV 8287-A	: 1	35/2	2x0.75mm²	Cable with valve plug
-W8287-A	2	35/2	-ECU-A.J52	: C	35/2	-ZV 8287-A	: 2	35/2	2x0.75mm²	Cable with valve plug
-W8287-A	Screen	35/2	ECC-1	: EMC Bus bar	35/2	-ZV 8287-A	: NC	35/2	2x0.75mm²	Cable with valve plug
-W8287-B	1	35/6	-ECU-B.J52	: B	35/6	-ZV 8287-B	: 1	35/6	2x0.75mm²	Cable with valve plug
-W8287-B	2	35/7	-ECU-B.J52	: C	35/7	-ZV 8287-B	: 2	35/7	2x0.75mm²	Cable with valve plug
-W8287-B	Screen	35/7	ECC-1	: EMC Bus bar	35/7	-ZV 8287-B	: NC	35/7	2x0.75mm²	Cable with valve plug
-W8501-A	1	39/2	-ACU-1.J37	: D	39/2	-PT 8501-A	: 1	39/2	2x0.75mm²	EN700AC 0207
-W8501-A	2	39/2	-ACU-1.J37	: C	39/2	-PT 8501-A	: 2	39/2	2x0.75mm²	EN700AC 0207
-W8501-A	Screen	39/2	ECC-1	: EMC Bus bar	39/2	-PT 8501-A	: NC	39/2	2x0.75mm²	EN700AC 0207
-W8501-B	1	39/7	-ACU-2.J37	: D	39/7	-PT 8501-B	: 1	39/7	2x0.75mm²	EN700AC 0207
-W8501-B	2	39/7	-ACU-2.J37	: C	39/7	-PT 8501-B	: 2	39/7	2x0.75mm²	EN700AC 0207
-W8501-B	Screen	39/7	ECC-1	: EMC Bus bar	39/7	-PT 8501-B	: NC	39/7	2x0.75mm²	EN700AC 0207
-W8503-A	1	38/2	-ACU-1.J36	: D	38/2	-PT 8503-A	: 1	38/2	2x0.75mm²	EN700AC 0207
-W8503-A	2	38/2	-ACU-1.J36	: C	38/2	-PT 8503-A	: 2	38/2	2x0.75mm²	EN700AC 0207
-W8503-A	Screen	38/2	ECC-1	: EMC Bus bar	38/2	-PT 8503-A	: NC	38/2	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 200(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
-W8503-B	1	38/7	-ACU-2.J36	: D		38/7	-PT 8503-B	: 1	38/7	2x0.75mm²	EN700AC 0207
-W8503-B	2	38/7	-ACU-2.J36	: C		38/7	-PT 8503-B	: 2	38/7	2x0.75mm²	EN700AC 0207
-W8503-B	Screen	38/7	ECC-1	: EMC Bus bar		38/7	-PT 8503-B	: NC	38/7	2x0.75mm²	EN700AC 0207
-W8601-A	1	37/2	-ECU-A.J35	: D		37/2	-PT 8601-A	: 1	37/2	2x0.75mm²	EN700AC 0207
-W8601-A	2	37/2	-ECU-A.J35	: C		37/2	-PT 8601-A	: 2	37/2	2x0.75mm²	EN700AC 0207
-W8601-A	Screen	37/2	ECC-1	: EMC Bus bar		37/2	-PT 8601-A	: NC	37/2	2x0.75mm²	EN700AC 0207
-W8601-B	1	37/7	-ECU-B.J35	: D		37/7	-PT 8601-B	: 1	37/7	2x0.75mm²	EN700AC 0207
-W8601-B	2	37/7	-ECU-B.J35	: C		37/7	-PT 8601-B	: 2	37/7	2x0.75mm²	EN700AC 0207
-W8601-B	Screen	37/7	ECC-1	: EMC Bus bar		37/7	-PT 8601-B	: NC	37/7	2x0.75mm²	EN700AC 0207
-W8712-n	1	74/7	-CCU-n.J33	: A	ID 4112 / 8712	74/8	-XS 8712-n	: 1	74/7	5x0.75mm²	EN700AC 0507
-W8712-n	2	74/7	-CCU-n.J33	: B		74/8	-XS 8712-n	: 2	74/7	5x0.75mm²	EN700AC 0507
-W8712-n	3	74/7	-CCU-n.J33	: C		74/8	-XS 8712-n	: 3	74/7	5x0.75mm²	EN700AC 0507
-W8712-n	4	74/7	-CCU-n	: G		74/3	-XS 8712-n	: 4	74/7	5x0.75mm²	EN700AC 0507
-W8712-n	SCREEN	74/7	-CCU-n	: EMC bus bar		74/7	-XS 8712-n	: Screen	74/7	5x0.75mm²	EN700AC 0507
-WPC-A	BN	144/1	-MOP-A PC	: 1	Power	144/1	JB MOP-A-X	: 4	144/3	3x1.0mm	Part of MOP-PC
-WPC-A	BU	144/1	-MOP-A PC	: 3		144/1	JB MOP-A-X	: 3	144/3	3x1.0mm	Part of MOP-PC
-WPC-A	GNYE	144/2	-MOP-A PC	: GND		144/2	JB MOP-A-X	: GND	144/3	3x1.0mm	Part of MOP-PC
-WPC-B	BN	144/6	-MOP-B PC	: 1	Power	144/6	JB MOP-B-X	: 4	144/8	3x1.0mm	Part of MOP-PC
-WPC-B	BU	144/6	-MOP-B PC	: 3		144/6	JB MOP-B-X	: 3	144/8	3x1.0mm	Part of MOP-PC
-WPC-B	GNYE	144/7	-MOP-B PC	: GND		144/7	JB MOP-B-X	: GND	144/8	3x1.0mm	Part of MOP-PC
-WSCR-A	BN	144/2	-MOP-A Screen	: 1	Power	144/2	JB MOP-A-X	: 6	144/3	3x1.0mm	Part of screen delivery
-WSCR-A	BU	144/2	-MOP-A Screen	: 3		144/2	JB MOP-A-X	: 5	144/3	3x1.0mm	Part of screen delivery
-WSCR-A	GNYE	144/3	-MOP-A Screen	: GND		144/3	JB MOP-A-X	: GND	144/3	3x1.0mm	Part of screen delivery
-WSCR-B	BN	144/7	-MOP-B Screen	: 1	Power	144/7	JB MOP-B-X	: 6	144/8	3x1.0mm	Part of screen delivery
-WSCR-B	BU	144/7	-MOP-B Screen	: 3		144/7	JB MOP-B-X	: 5	144/8	3x1.0mm	Part of screen delivery
-WSCR-B	GNYE	144/8	-MOP-B Screen	: GND		144/8	JB MOP-B-X	: GND	144/8	3x1.0mm	Part of screen delivery

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 201(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal	Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W1LOP	1	52/2	-ECU-A.J05	: A	52/2	LOP-X	: 25	52/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	2	52/2	-ECU-A.J83	: B	52/3	LOP-X	: 26	52/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	3	52/4	-ECU-A.J06	: A	52/4	LOP-X	: 63	52/4	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	4	52/4	-ECU-A.J84	: B	52/5	LOP-X	: 64	52/4	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	5	52/7	-ECU-A.J25	: C	52/7	LOP-X	: 65	52/7	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	6	52/7	-ECU-A.J25	: D	52/7	LOP-X	: 66	52/7	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	7	53/7	-ECU-A.J71	: B	53/7	LOP-X	: 89	53/7	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	8	53/7	-ECU-A.J71	: C	53/7	LOP-X	: 90	53/7	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	9	54/2	-ECU-A.J23	: C	54/2	LOP-X	: 91	54/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	10	54/2	-ECU-A.J23	: D	54/2	LOP-X	: 92	54/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	11	55/2	-ECU-A.J24	: C	55/2	LOP-X	: 95	55/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	12	55/2	-ECU-A.J24	: D	55/2	LOP-X	: 96	55/2	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	13	59/1	-ECU-A.J07	: A	59/1	LOP-X	: 117	59/1	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	14	59/1	-ECU-A.J85	: B	59/2	LOP-X	: 118	59/1	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	15	59/4	-ECU-A.J21	: C	59/4	LOP-X	: 119	59/4	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	16	59/4	-ECU-A.J21	: D	59/4	LOP-X	: 120	59/4	19x0.75mm²	EN700AC 1907
ECC-1-W1LOP	Screen	59/4	ECC-1	: EMC bus bar	59/4	LOP	: Screen in gland	59/4	19x0.75mm²	EN700AC 1907
ECC-1-W2LOP	1	53/2	-ECU-B.J25	: C	53/2	LOP-X	: 67	53/2	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	2	53/2	-ECU-B.J25	: D	53/2	LOP-X	: 68	53/2	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	3	54/7	-ECU-B.J23	: C	54/7	LOP-X	: 93	54/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	4	54/7	-ECU-B.J23	: D	54/7	LOP-X	: 94	54/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	5	55/7	-ECU-B.J24	: C	55/7	LOP-X	: 97	55/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	6	55/7	-ECU-B.J24	: D	55/7	LOP-X	: 98	55/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	7	56/7	-ECU-B.J71	: B	56/7	LOP-X	: 101	56/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	8	56/7	-ECU-B.J71	: C	56/7	LOP-X	: 102	56/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	9	59/7	-ECU-B.J21	: C	59/7	LOP-X	: 121	59/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	10	59/7	-ECU-B.J21	: D	59/7	LOP-X	: 122	59/7	14x0.75mm²	EN700AC 1407
ECC-1-W2LOP	Screen	59/7	ECC-1	: EMC bus bar	59/7	LOP	: Screen in gland	59/7	14x0.75mm²	EN700AC 1407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 202(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal	Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W3LOP	1	56/2	-ACU-1.J60	: B	56/2	LOP-X	: 99	56/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	2	56/2	-ACU-1.J60	: C	56/2	LOP-X	: 100	56/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	3	57/2	-ACU-1.J53	: B	57/2	LOP-X	: 103	57/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	4	57/2	-ACU-1.J53	: C	57/2	LOP-X	: 104	57/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	5	57/3	-ACU-1.J07	: A	57/3	LOP-X	: 105	57/3	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	6	57/3	-ACU-1.J84	: B	57/4	LOP-X	: 106	57/3	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	7	57/6	-ACU-1.J08	: A	57/6	LOP-X	: 107	57/6	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	8	57/6	-ACU-1.J85	: B	57/7	LOP-X	: 108	57/6	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	9	58/2	-ACU-1.J06	: A	58/2	LOP-X	: 109	58/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	10	58/2	-ACU-1.J83	: B	58/3	LOP-X	: 110	58/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	11	58/4	-ACU-1.J52	: B	58/4	LOP-X	: 111	58/4	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	12	58/4	-ACU-1.J52	: C	58/4	LOP-X	: 112	58/4	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	13	58/5	-ACU-1.J51	: B	58/5	LOP-X	: 113	58/5	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	14	58/5	-ACU-1.J51	: C	58/5	LOP-X	: 114	58/5	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	15	58/7	-ACU-1.J49	: B	58/7	LOP-X	: 115	58/7	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	16	58/7	-ACU-1.J49	: C	58/7	LOP-X	: 116	58/7	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	17	60/1	-ACU-1.J50	: B	60/1	LOP-X	: 123	60/1	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	18	60/2	-ACU-1.J50	: C	60/2	LOP-X	: 124	60/2	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	19	60/3	-ACU-1.J26	: C	60/3	LOP-X	: 127	60/3	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	20	60/3	-ACU-1.J26	: D	60/3	LOP-X	: 128	60/3	27x0.75mm²	EN700AC 2707
ECC-1-W3LOP	Screen	60/3	ECC-1	: EMC bus bar	60/3	LOP	: Screen in gland	60/3	27x0.75mm²	EN700AC 2707

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 203(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
ECC-1-WHPS_A	1	43/1	ECC-1-XHPS : 1	1	43/1	HPS-XHPS : 1		43/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	2	43/1	ECC-1-XHPS : 2	2	43/1	HPS-XHPS : 2		43/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	3	43/3	ECC-1-XHPS : 3	3	43/3	HPS-XHPS : 3		43/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	4	43/3	ECC-1-XHPS : 4	4	43/3	HPS-XHPS : 4		43/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	5	43/3	ECC-1-XHPS : 5	5	43/3	HPS-XHPS : 5		43/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	6	43/3	ECC-1-XHPS : 6	6	43/3	HPS-XHPS : 6		43/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	7	43/4	ECC-1-XHPS : 5	1	43/4	HPS-XHPS : 7		43/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	8	43/4	ECC-1-XHPS : 6	2	43/4	HPS-XHPS : 8		43/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	9	43/4	ECC-1-XHPS : 7	3	43/4	HPS-XHPS : 9		43/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	10	43/5	ECC-1-XHPS : 8	4	43/5	HPS-XHPS : 10		43/5	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	11	43/6	ECC-1-XHPS : 9	1	43/6	HPS-XHPS : 11		43/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	12	43/6	ECC-1-XHPS : 10	2	43/6	HPS-XHPS : 12		43/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	13	43/7	ECC-1-XHPS : 11	1	43/7	HPS-XHPS : 13		43/7	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	14	43/8	ECC-1-XHPS : 12	2	43/8	HPS-XHPS : 14		43/8	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	15	44/1	ECC-1-XHPS : 13	1	44/1	HPS-XHPS : 15		44/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	16	44/1	ECC-1-XHPS : 14	2	44/1	HPS-XHPS : 16		44/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	17	44/3	ECC-1-XHPS : 15	1	44/3	HPS-XHPS : 17		44/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	18	44/3	ECC-1-XHPS : 16	2	44/3	HPS-XHPS : 18		44/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	19	44/3	ECC-1-XHPS : 17	3	44/3	HPS-XHPS : 19		44/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	20	44/3	ECC-1-XHPS : 18	4	44/3	HPS-XHPS : 20		44/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	21	44/4	ECC-1-XHPS : 19	1	44/4	HPS-XHPS : 21		44/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	22	44/4	ECC-1-XHPS : 20	2	44/4	HPS-XHPS : 22		44/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	23	44/4	ECC-1-XHPS : 21	3	44/4	HPS-XHPS : 23		44/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	24	44/5	ECC-1-XHPS : 22	4	44/5	HPS-XHPS : 24		44/5	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	25	44/6	ECC-1-XHPS : 23	1	44/6	HPS-XHPS : 25		44/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	26	44/6	ECC-1-XHPS : 24	2	44/6	HPS-XHPS : 26		44/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	27	44/7	ECC-1-XHPS : 25	1	44/7	HPS-XHPS : 27		44/7	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	28	44/8	ECC-1-XHPS : 26	2	44/8	HPS-XHPS : 28		44/8	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	29	45/1	ECC-1-XHPS1 : 27	1	45/1	HPS-XHPS : 29		45/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	30	45/1	ECC-1-XHPS1 : 28	2	45/1	HPS-XHPS : 30		45/1	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	31	45/3	ECC-1-XHPS1 : 29	1	45/3	HPS-XHPS : 31		45/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	32	45/3	ECC-1-XHPS1 : 30	2	45/3	HPS-XHPS : 32		45/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	33	45/3	ECC-1-XHPS1 : 31	3	45/3	HPS-XHPS : 33		45/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	34	45/3	ECC-1-XHPS1 : 32	4	45/3	HPS-XHPS : 34		45/3	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	35	45/4	ECC-1-XHPS1 : 33	1	45/4	HPS-XHPS : 35		45/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	36	45/4	ECC-1-XHPS1 : 34	2	45/4	HPS-XHPS : 36		45/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	37	45/4	ECC-1-XHPS1 : 35	3	45/4	HPS-XHPS : 37		45/4	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	38	45/5	ECC-1-XHPS1 : 36	4	45/5	HPS-XHPS : 38		45/5	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	39	45/6	ECC-1-XHPS1 : 37	1	45/6	HPS-XHPS : 39		45/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	40	45/6	ECC-1-XHPS1 : 38	2	45/6	HPS-XHPS : 40		45/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	41	45/7	ECC-1-XHPS1 : 39	1	45/7	HPS-XHPS : 41		45/7	50x0.75mm²	EN700AC 5007

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 204(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-WHPS_A	42	45/8	ECC-1-XHPS1	: 40	2	45/8	HPS-XHPS	: 42	45/8	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	43	46/2	ECC-1-XHPS-A	: 41	1	46/2	HPS-XHPS	: 43	46/2	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	44	46/2	ECC-1-XHPS-A	: 42	2	46/2	HPS-XHPS	: 44	46/2	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	45	46/6	ECC-1-XHPS-A	: 43	1	46/6	HPS-XHPS	: 45	46/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	46	46/6	ECC-1-XHPS-A	: 44	2	46/6	HPS-XHPS	: 46	46/6	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_A	Screen	46/7	ECC-1	: EMC bus bar		46/7	HPS	: Screen in gland	46/7	50x0.75mm²	EN700AC 5007
ECC-1-WHPS_D	1	47/1	ECC-1-XHPS1	: 45	1	47/1	HPS-XHPS	: 47	47/1	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	2	47/1	ECC-1-XHPS1	: 46	2	47/1	HPS-XHPS	: 48	47/1	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	3	47/6	ECC-1-XHPS1	: 47	1	47/6	HPS-XHPS	: 49	47/6	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	4	47/6	ECC-1-XHPS1	: 48	2	47/6	HPS-XHPS	: 50	47/6	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	5	48/2	ECC-1-XHPS1	: 49	1	48/2	HPS-XHPS	: 51	48/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	6	48/2	ECC-1-XHPS1	: 50	2	48/2	HPS-XHPS	: 52	48/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	7	48/7	ECC-1-XHPS1	: 51	1	48/7	HPS-XHPS	: 53	48/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	8	48/7	ECC-1-XHPS1	: 52	2	48/7	HPS-XHPS	: 54	48/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	9	49/2	ECC-1-XHPS-D	: 1	1	49/2	HPS-XHPS	: 55	49/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	10	49/2	ECC-1-XHPS-D	: 2	2	49/2	HPS-XHPS	: 56	49/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	11	49/2	ECC-1-XHPS-D	: 3	3	49/2	HPS-XHPS	: 57	49/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	12	49/2	ECC-1-XHPS-D	: 4	4	49/2	HPS-XHPS	: 58	49/2	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	13	49/7	ECC-1-XHPS-D	: 5	1	49/7	HPS-XHPS	: 59	49/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	14	49/7	ECC-1-XHPS-D	: 6	2	49/7	HPS-XHPS	: 60	49/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	15	49/7	ECC-1-XHPS-D	: 7	3	49/7	HPS-XHPS	: 61	49/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	16	49/7	ECC-1-XHPS-D	: 8	4	49/7	HPS-XHPS	: 62	49/7	19x0.75mm²	EN700AC 1907
ECC-1-WHPS_D	S	49/7	ECC-1	: EMC bus bar		49/7	HPS	: Screen in gland	49/7	19x0.75mm²	EN700AC 1907
ECC-1-WNET-A	1	91/1	-EICU-B-XNET-A	: 4		90/8	ECC-1-XNET-A	: 1	91/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-A	2	91/1	-EICU-B-XNET-A	: 5		90/8	ECC-1-XNET-A	: 2	91/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-A	Screen	91/1	-EC-MOP-A	: Screen in Frame		89/6	ECC-1-XNET-A	: 3	91/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-B	1	100/8	-ECU-B.J65	: A	Line B	99/6	ECC-1-XNET-B	: 4	100/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-B	2	100/8	-ECU-B.J65	: B		99/6	ECC-1-XNET-B	: 5	100/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-B	Screen	100/8	-ECU-B.J65	: C		99/6	ECC-1-XNET-B	: 6	100/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WPACU-1	1	137/5	-ACU-1.J01	: A		137/5	ECC-1-XP	: 9	137/5	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-1	2	137/5	-ACU-1.J01	: B		137/5	ECC-1-XP	: 10	137/5	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-1	3	137/5	-ACU-1.J01	: C		137/5	ECC-1-XP	: 11	137/5	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-1	Screen	137/5	-ACU-1.J01	: D		137/6	ECC-1	: EMC bus bar	137/6	3x2,5mm²	EN700AC 0325

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 205(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal	Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-WPACU-2	1	137/7	-ACU-2.J01	: A	137/7	ECC-1-XP	: 13	137/7	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-2	2	137/7	-ACU-2.J01	: B	137/7	ECC-1-XP	: 14	137/7	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-2	3	137/7	-ACU-2.J01	: C	137/7	ECC-1-XP	: 15	137/7	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-2	Screen	137/7	-ACU-2.J01	: D	137/7	ECC-1	: EMC bus bar	137/7	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-3	1	138/1	-ACU-3.J01	: A	138/1	ECC-1-XP	: 17	138/1	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-3	2	138/2	-ACU-3.J01	: B	138/2	ECC-1-XP	: 18	138/2	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-3	3	138/2	-ACU-3.J01	: C	138/2	ECC-1-XP	: 19	138/2	3x2,5mm²	EN700AC 0325
ECC-1-WPACU-3	Screen	138/2	-ACU-3.J01	: D	138/2	ECC-1	: EMC bus bar	138/2	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-A	1	137/1	-ECU-A.J01	: A	137/1	ECC-1-XP	: 1	137/1	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-A	2	137/2	-ECU-A.J01	: B	137/2	ECC-1-XP	: 2	137/2	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-A	3	137/2	-ECU-A.J01	: C	137/2	ECC-1-XP	: 3	137/2	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-A	Screen	137/2	-ECU-A.J01	: D	137/2	ECC-1	: EMC bus bar	137/2	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-B	1	137/3	-ECU-B.J01	: A	137/3	ECC-1-XP	: 5	137/3	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-B	2	137/3	-ECU-B.J01	: B	137/3	ECC-1-XP	: 6	137/3	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-B	3	137/4	-ECU-B.J01	: C	137/4	ECC-1-XP	: 7	137/4	3x2,5mm²	EN700AC 0325
ECC-1-WPECU-B	Screen	137/4	-ECU-B.J01	: D	137/4	ECC-1	: EMC bus bar	137/4	3x2,5mm²	EN700AC 0325
ECC-1-WPPMI	1	138/8	-PMI.J01	: A	138/8	ECC-1-XP	: 24	138/5	3x2,5mm²	EN700AC 0325
ECC-1-WPPMI	2	138/8	-PMI.J01	: B	138/8	ECC-1-XP	: 25	138/5	3x2,5mm²	EN700AC 0325
ECC-1-WPPMI	3	138/8	-PMI.J01	: C	138/8	ECC-1-XP	: 26	138/5	3x2,5mm²	EN700AC 0325
ECC-1-WPPMI	Screen	138/8	-PMI.J01	: D	138/8	ECC-1	: EMC bus bar	138/6	3x2,5mm²	EN700AC 0325
ECC-1-WPSCU	1	138/3	-SCU.J01	: A	138/3	ECC-1-XP	: 21	138/3	3x2,5mm²	EN700AC 0325
ECC-1-WPSCU	2	138/3	-SCU.J01	: B	138/3	ECC-1-XP	: 22	138/3	3x2,5mm²	EN700AC 0325
ECC-1-WPSCU	3	138/4	-SCU.J01	: C	138/4	ECC-1-XP	: 23	138/4	3x2,5mm²	EN700AC 0325
ECC-1-WPSCU	Screen	138/4	-SCU.J01	: D	138/4	ECC-1	: EMC bus bar	138/4	3x2,5mm²	EN700AC 0325
ECC-1-WX3TSA-A	1	117/1	-ECU-B.J41	: B	116/6	ECC-1-X3TSA-A	: 1	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	2	117/1	-ECU-B.J41	: C	116/6	ECC-1-X3TSA-A	: 2	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	3	117/1	-ECU-B.J40	: B	116/5	ECC-1-X3TSA-A	: 3	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	4	117/1	-ECU-B.J40	: C	116/5	ECC-1-X3TSA-A	: 4	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	5	117/1	-ECU-B.J43	: B	116/7	ECC-1-X3TSA-A	: 5	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	6	117/1	-ECU-B.J43	: C	116/8	ECC-1-X3TSA-A	: 6	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	7	117/1	-ECU-B.J42	: B	116/7	ECC-1-X3TSA-A	: 7	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	8	117/1	-ECU-B.J42	: C	116/7	ECC-1-X3TSA-A	: 8	117/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-A	Screen	117/1	-ECU-B	: Screen to Frame	116/8	ECC-1	: Screen to FE-Busbar	117/2	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 206(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-WX3TSA-B	1	127/1	-ECU-A.J45	: B		126/6	ECC-1-X3TSA-B	: 1	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	2	127/1	-ECU-A.J45	: C		126/6	ECC-1-X3TSA-B	: 2	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	3	127/1	-ECU-A.J44	: B		126/5	ECC-1-X3TSA-B	: 3	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	4	127/1	-ECU-A.J44	: C		126/5	ECC-1-X3TSA-B	: 4	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	5	127/1	-ECU-A.J47	: B		126/7	ECC-1-X3TSA-B	: 5	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	6	127/1	-ECU-A.J47	: C		126/8	ECC-1-X3TSA-B	: 6	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	7	127/1	-ECU-A.J46	: B		126/7	ECC-1-X3TSA-B	: 7	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	8	127/1	-ECU-A.J46	: C		126/7	ECC-1-X3TSA-B	: 8	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	Screen	127/1	-ECU-A	: Screen to Frame		126/8	ECC-1	: Screen to FE-Busbar	127/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WXNET-A	1	92/7	-ACU-3.J65	: A	Line A	92/6	ECC-1-XNET-A	: 4	92/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WXNET-A	2	92/7	-ACU-3.J65	: B		92/6	ECC-1-XNET-A	: 5	92/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WXNET-A	Screen	92/7	-ACU-3.J65	: C		92/6	ECC-1-XNET-A	: 6	92/8	1x2x0.75mm²	EN700AF 0107
ECC-1-WXNET-B	1	99/2	-ACU-1.J65	: A	Line B	99/3	ECC-1-XNET-B	: 1	99/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WXNET-B	2	99/2	-ACU-1.J65	: B		99/3	ECC-1-XNET-B	: 2	99/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WXNET-B	Screen	99/2	-ACU-1.J65	: C		99/3	ECC-1-XNET-B	: 3	99/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-A	1	95/1	-EICU-B-XNET-A	: 4		90/8	ECC-2-XNET-A	: 1	95/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-A	2	95/1	-EICU-B-XNET-A	: 5		90/8	ECC-2-XNET-A	: 2	95/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-A	Screen	95/1	-EC-MOP-A	: Screen in Frame		89/6	ECC-2-XNET-A	: 3	95/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-B	1	104/8	-EICU-A-XNET-B	: 4		98/8	ECC-2-XNET-B	: 4	104/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-B	2	104/8	-EICU-A-XNET-B	: 5		98/8	ECC-2-XNET-B	: 5	104/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-B	Screen	104/8	-EICU-A-XNET-B	: 6		98/8	ECC-2-XNET-B	: 6	104/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WPCCU-1	1	140/1	-CCU-1.J01	: A		140/1	ECC-2-XP	: 1	140/1	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-1	2	140/2	-CCU-1.J01	: B		140/2	ECC-2-XP	: 2	140/2	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-1	3	140/2	-CCU-1.J01	: C		140/2	ECC-2-XP	: 3	140/2	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-1	Screen	140/2	-CCU-1	: EMC bus bar		140/2	ECC-2	: EMC bus bar	140/2	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-2	1	140/3	-CCU-2.J01	: A		140/3	ECC-2-XP	: 5	140/3	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-2	2	140/3	-CCU-2.J01	: B		140/3	ECC-2-XP	: 6	140/3	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-2	3	140/4	-CCU-2.J01	: C		140/4	ECC-2-XP	: 7	140/4	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-2	Screen	140/4	-CCU-2	: EMC bus bar		140/4	ECC-2	: EMC bus bar	140/4	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-3	1	140/5	-CCU-3.J01	: A		140/5	ECC-2-XP	: 9	140/5	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-3	2	140/5	-CCU-3.J01	: B		140/5	ECC-2-XP	: 10	140/5	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-3	3	140/5	-CCU-3.J01	: C		140/5	ECC-2-XP	: 11	140/5	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-3	Screen	140/5	-CCU-3	: EMC bus bar		140/6	ECC-2	: EMC bus bar	140/6	3x1,5mm²	EN700AC 0315

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 207(225)

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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-2-WPCCU-4	1	140/7	-CCU-4.J01	: A		140/7	ECC-2-XP	: 13	140/7	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-4	2	140/7	-CCU-4.J01	: B		140/7	ECC-2-XP	: 14	140/7	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-4	3	140/7	-CCU-4.J01	: C		140/7	ECC-2-XP	: 15	140/7	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-4	Screen	140/7	-CCU-4	: EMC bus bar		140/7	ECC-2	: EMC bus bar	140/7	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-5	1	141/1	-CCU-5.J01	: A		141/1	ECC-2-XP	: 17	141/1	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-5	2	141/2	-CCU-5.J01	: B		141/2	ECC-2-XP	: 18	141/2	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-5	3	141/2	-CCU-5.J01	: C		141/2	ECC-2-XP	: 19	141/2	3x1,5mm²	EN700AC 0315
ECC-2-WPCCU-5	Screen	141/2	-CCU-5	: EMC bus bar		141/2	ECC-2	: EMC bus bar	141/2	3x1,5mm²	EN700AC 0315
ECC-2-WTSA-A	1	121/5	ECC-3-X3TSA-A	: 1		121/3	ECC-2-X2TSA-A	: 1	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	2	121/5	ECC-3-X3TSA-A	: 2		121/3	ECC-2-X2TSA-A	: 2	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	3	121/5	ECC-3-X3TSA-A	: 3		121/3	ECC-2-X2TSA-A	: 3	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	4	121/5	ECC-3-X3TSA-A	: 4		121/3	ECC-2-X2TSA-A	: 4	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	5	121/5	ECC-3-X3TSA-A	: 5		121/3	ECC-2-X2TSA-A	: 5	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	6	121/5	ECC-3-X3TSA-A	: 6		121/3	ECC-2-X2TSA-A	: 6	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	7	121/5	ECC-3-X3TSA-A	: 7		121/3	ECC-2-X2TSA-A	: 7	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	8	121/5	ECC-3-X3TSA-A	: 8		121/3	ECC-2-X2TSA-A	: 8	121/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-A	Screen	121/5	ECC-3	: Screen to FE-Busbar		121/3	ECC-2	: Screen to FE-Busbar	121/6	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	1	131/5	ECC-3-X3TSA-B	: 1		131/3	ECC-2-X2TSA-B	: 1	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	2	131/5	ECC-3-X3TSA-B	: 2		131/3	ECC-2-X2TSA-B	: 2	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	3	131/5	ECC-3-X3TSA-B	: 3		131/3	ECC-2-X2TSA-B	: 3	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	4	131/5	ECC-3-X3TSA-B	: 4		131/3	ECC-2-X2TSA-B	: 4	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	5	131/5	ECC-3-X3TSA-B	: 5		131/3	ECC-2-X2TSA-B	: 5	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	6	131/5	ECC-3-X3TSA-B	: 6		131/3	ECC-2-X2TSA-B	: 6	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	7	131/5	ECC-3-X3TSA-B	: 7		131/3	ECC-2-X2TSA-B	: 7	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	8	131/5	ECC-3-X3TSA-B	: 8		131/3	ECC-2-X2TSA-B	: 8	131/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	Screen	131/5	ECC-3	: Screen to FE-Busbar		131/3	ECC-2	: Screen to FE-Busbar	131/6	4x2x0.75mm²	EN700AA 0407
ECC-2-WXNET-A	1	96/7	-CCU-2.J65	: A	Line A	96/6	ECC-2-XNET-A	: 4	96/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-A	2	96/7	-CCU-2.J65	: B		96/6	ECC-2-XNET-A	: 5	96/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-A	Screen	96/7	-CCU-2.J65	: C		96/6	ECC-2-XNET-A	: 6	96/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	1	103/2	-CCU-1.J65	: A	Line B	103/3	ECC-2-XNET-B	: 1	103/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	2	103/2	-CCU-1.J65	: B		103/3	ECC-2-XNET-B	: 2	103/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	Screen	103/2	-CCU-1.J65	: C		103/3	ECC-2-XNET-B	: 3	103/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	1	93/1	-EICU-B-XNET-A	: 4		90/8	ECC-3-XNET-A	: 1	93/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	2	93/1	-EICU-B-XNET-A	: 5		90/8	ECC-3-XNET-A	: 2	93/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	Screen	93/1	-EC-MOP-A	: Screen in Frame		89/6	ECC-3-XNET-A	: 3	93/1	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 208(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-3-WNET-B	1	102/8	-ECU-B.J65	: A	Line B	99/6	ECC-3-XNET-B	: 4	102/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-B	2	102/8	-ECU-B.J65	: B		99/6	ECC-3-XNET-B	: 5	102/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-B	Screen	102/8	-ECU-B.J65	: C		99/6	ECC-3-XNET-B	: 6	102/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WPCCU-6	1	141/3	-CCU-6.J01	: A		141/3	ECC-3-XP	: 1	141/3	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-6	2	141/3	-CCU-6.J01	: B		141/3	ECC-3-XP	: 2	141/3	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-6	3	141/4	-CCU-6.J01	: C		141/4	ECC-3-XP	: 3	141/4	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-6	Screen	141/4	-CCU-6	: EMC bus bar		141/4	ECC-3	: EMC bus bar	141/4	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-7	1	141/5	-CCU-7.J01	: A		141/5	ECC-3-XP	: 1	141/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-7	2	141/5	-CCU-7.J01	: B		141/5	ECC-3-XP	: 2	141/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-7	3	141/5	-CCU-7.J01	: C		141/5	ECC-3-XP	: 3	141/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-7	Screen	141/5	-CCU-7	: EMC bus bar		141/6	ECC-3	: EMC bus bar	141/6	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-8	1	141/7	-CCU-8.J01	: A		141/7	ECC-3-XP	: 1	141/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-8	2	141/7	-CCU-8.J01	: B		141/7	ECC-3-XP	: 2	141/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-8	3	141/7	-CCU-8.J01	: C		141/7	ECC-3-XP	: 3	141/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-8	Screen	141/7	-CCU-8	: EMC bus bar		141/7	ECC-3	: EMC bus bar	141/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-9	1	142/1	-CCU-9.J01	: A		142/1	ECC-3-XP	: 1	142/1	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-9	2	142/2	-CCU-9.J01	: B		142/2	ECC-3-XP	: 2	142/2	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-9	3	142/2	-CCU-9.J01	: C		142/2	ECC-3-XP	: 3	142/2	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-9	Screen	142/2	-CCU-9	: EMC bus bar		142/2	ECC-3	: EMC bus bar	142/2	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-10	1	142/3	-CCU-10.J01	: A		142/3	ECC-3-XP	: 1	142/3	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-10	2	142/3	-CCU-10.J01	: B		142/3	ECC-3-XP	: 2	142/3	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-10	3	142/4	-CCU-10.J01	: C		142/4	ECC-3-XP	: 3	142/4	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-10	Screen	142/4	-CCU-10	: EMC bus bar		142/4	ECC-3	: EMC bus bar	142/4	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-11	1	142/5	-CCU-11.J01	: A		142/5	ECC-3-XP	: 1	142/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-11	2	142/5	-CCU-11.J01	: B		142/5	ECC-3-XP	: 2	142/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-11	3	142/5	-CCU-11.J01	: C		142/5	ECC-3-XP	: 3	142/5	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-11	Screen	142/5	-CCU-11	: EMC bus bar		142/6	ECC-3	: EMC bus bar	142/6	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-12	1	142/7	-CCU-12.J01	: A		142/7	ECC-3-XP	: 1	142/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-12	2	142/7	-CCU-12.J01	: B		142/7	ECC-3-XP	: 2	142/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-12	3	142/7	-CCU-12.J01	: C		142/7	ECC-3-XP	: 3	142/7	3x1,5mm²	EN700AC 0315
ECC-3-WPCCU-12	Screen	142/7	-CCU-12	: EMC bus bar		142/7	ECC-3	: EMC bus bar	142/7	3x1,5mm²	EN700AC 0315

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5 12 CYL~~ | Projection: | Page No.: 209(225)

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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-3-WTSA-A	1	117/5	ECC-1-X3TSA-A	: 1		117/3	ECC-3-X2TSA-A	: 1	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	2	117/5	ECC-1-X3TSA-A	: 2		117/3	ECC-3-X2TSA-A	: 2	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	3	117/5	ECC-1-X3TSA-A	: 3		117/3	ECC-3-X2TSA-A	: 3	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	4	117/5	ECC-1-X3TSA-A	: 4		117/3	ECC-3-X2TSA-A	: 4	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	5	117/5	ECC-1-X3TSA-A	: 5		117/3	ECC-3-X2TSA-A	: 5	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	6	117/5	ECC-1-X3TSA-A	: 6		117/3	ECC-3-X2TSA-A	: 6	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	7	117/5	ECC-1-X3TSA-A	: 7		117/3	ECC-3-X2TSA-A	: 7	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	8	117/5	ECC-1-X3TSA-A	: 8		117/3	ECC-3-X2TSA-A	: 8	117/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	Screen	117/5	ECC-1	: Screen to FE-Busbar		117/3	ECC-3	: Screen to FE-Busbar	117/6	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	1	127/5	ECC-1-X3TSA-B	: 1		127/3	ECC-3-X2TSA-B	: 1	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	2	127/5	ECC-1-X3TSA-B	: 2		127/3	ECC-3-X2TSA-B	: 2	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	3	127/5	ECC-1-X3TSA-B	: 3		127/3	ECC-3-X2TSA-B	: 3	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	4	127/5	ECC-1-X3TSA-B	: 4		127/3	ECC-3-X2TSA-B	: 4	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	5	127/5	ECC-1-X3TSA-B	: 5		127/3	ECC-3-X2TSA-B	: 5	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	6	127/5	ECC-1-X3TSA-B	: 6		127/3	ECC-3-X2TSA-B	: 6	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	7	127/5	ECC-1-X3TSA-B	: 7		127/3	ECC-3-X2TSA-B	: 7	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	8	127/5	ECC-1-X3TSA-B	: 8		127/3	ECC-3-X2TSA-B	: 8	127/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	Screen	127/5	ECC-1	: Screen to FE-Busbar		127/3	ECC-3	: Screen to FE-Busbar	127/6	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	1	121/1	-CCU-8.J40...J43	: B	ID 4002-A	120/6	ECC-3-X3TSA-A	: 1	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	2	121/1	-CCU-8.J40...J43	: C		120/6	ECC-3-X3TSA-A	: 2	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	3	121/1	-CCU-8.J40...J43	: B	ID 4001-A	120/5	ECC-3-X3TSA-A	: 3	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	4	121/1	-CCU-8.J40...J43	: C		120/5	ECC-3-X3TSA-A	: 4	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	5	121/1	-CCU-8.J40...J43	: B	ID 4004-A	120/7	ECC-3-X3TSA-A	: 5	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	6	121/1	-CCU-8.J40...J43	: C		120/8	ECC-3-X3TSA-A	: 6	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	7	121/1	-CCU-8.J40...J43	: B	ID 4003-A	120/7	ECC-3-X3TSA-A	: 7	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	8	121/1	-CCU-8.J40...J43	: C		120/7	ECC-3-X3TSA-A	: 8	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	Screen	121/1	-CCU-8	: Screen to Frame		120/8	ECC-3	: Screen to FE-Busbar	121/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	1	131/1	-CCU-8.J44...J47	: B	ID 4002-B	130/6	ECC-3-X3TSA-B	: 1	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	2	131/1	-CCU-8.J44...J47	: C		130/6	ECC-3-X3TSA-B	: 2	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	3	131/1	-CCU-8.J44...J47	: B	ID 4001-B	130/5	ECC-3-X3TSA-B	: 3	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	4	131/1	-CCU-8.J44...J47	: C		130/5	ECC-3-X3TSA-B	: 4	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	5	131/1	-CCU-8.J44...J47	: B	ID 4004-B	130/7	ECC-3-X3TSA-B	: 5	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	6	131/1	-CCU-8.J44...J47	: C		130/8	ECC-3-X3TSA-B	: 6	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	7	131/1	-CCU-8.J44...J47	: B	ID 4003-B	130/7	ECC-3-X3TSA-B	: 7	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	8	131/1	-CCU-8.J44...J47	: C		130/7	ECC-3-X3TSA-B	: 8	131/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	Screen	131/1	-CCU-8	: Screen to Frame		130/8	ECC-3	: Screen to FE-Busbar	131/2	4x2x0.75mm²	EN700AA 0407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 210(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-3-WXNET-A	1	94/7	-CCU-8.J65	: A	Line A	94/6	ECC-3-XNET-A	: 4	94/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-A	2	94/7	-CCU-8.J65	: B		94/6	ECC-3-XNET-A	: 5	94/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-A	Screen	94/7	-CCU-8.J65	: C		94/6	ECC-3-XNET-A	: 6	94/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	1	101/2	-CCU-7.J65	: A	Line B	101/3	ECC-3-XNET-B	: 1	101/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	2	101/2	-CCU-7.J65	: B		101/3	ECC-3-XNET-B	: 2	101/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	Screen	101/2	-CCU-7.J65	: C		101/3	ECC-3-XNET-B	: 3	101/1	1x2x0.75mm²	EN700AF 0107
ECC-n-WnHCU_A	1	74/2	-CCU-n	: C	ID 4107-n	74/2	HCU-n-XHCU	: 3	74/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	2	74/2	-CCU-n	: B		74/2	HCU-n-XHCU	: 4	74/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	3	74/5	-CCU-n.J30	: D		74/5	HCU-n-XHCU	: 9	74/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	4	74/5	-CCU-n.J30	: A	ID 4102-n	74/5	HCU-n-XHCU	: 10	74/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	5	74/5	-CCU-n.J30	: C		74/5	HCU-n-XHCU	: 11	74/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	6	74/5	-CCU-n.J30	: B		74/5	HCU-n-XHCU	: 12	74/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	Screen	74/5	-CCU-n	: EMC bus bar		74/5	HCU-n	: Screen in gland	74/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	7	76/3	-CCU-n.J31	: D		76/3	HCU-n-XHCU	: 9	76/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	8	76/3	-CCU-n.J31	: A	ID 4114-n	76/3	HCU-n-XHCU	: 10	76/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	9	76/3	-CCU-n.J31	: C		76/3	HCU-n-XHCU	: 11	76/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	10	76/3	-CCU-n.J31	: B		76/3	HCU-n-XHCU	: 12	76/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	11	76/6	-CCU-n.J34	: D		76/6	HCU-n-XHCU	: 13	76/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	12	76/6	-CCU-n.J34	: A	ID 4111 / 4117	76/6	HCU-n-XHCU	: 14	76/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	13	76/6	-CCU-n.J34	: C		76/6	HCU-n-XHCU	: 15	76/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	14	76/6	-CCU-n.J34	: B		76/6	HCU-n-XHCU	: 16	76/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	Screen	76/6	-CCU-n	: EMC bus bar		76/6	HCU-n	: Screen in gland	76/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	1	77/2	-CCU-n	: A	ID 8281-n	77/2	HCU-n-XHCU	: 17	77/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	2	77/2	-CCU-n	: B		77/2	HCU-n-XHCU	: 18	77/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	3	77/3	-CCU-n	: C	ID 8282-n	77/3	HCU-n-XHCU	: 19	77/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	4	77/3	-CCU-n	: D		77/3	HCU-n-XHCU	: 20	77/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	5	77/3	-CCU-n	: E		77/3	HCU-n-XHCU	: 21	77/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	6	77/4	-CCU-n.J21	: D		77/4	HCU-n-XHCU	: 22	77/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	7	77/4	-CCU-n.J21	: A	ID 8285-n	77/4	HCU-n-XHCU	: 23	77/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	8	77/4	-CCU-n.J21	: C		77/4	HCU-n-XHCU	: 24	77/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	9	77/4	-CCU-n.J21	: B		77/4	HCU-n-XHCU	: 25	77/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	10	77/7	-CCU-n.J50	: C		77/7	HCU-n-XHCU	: 26	77/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	11	77/7	-CCU-n.J50	: B		77/7	HCU-n-XHCU	: 27	77/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	Screen	77/7	-CCU-n	: EMC bus bar		77/7	HCU-n	: Screen in gland	77/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_P	1	74/1	-CCU-n	: B		74/1	HCU-n-XHCU	: 1	74/1	2x1,5mm²	EN700AC 0215
ECC-n-WnHCU_P	2	74/1	-CCU-n	: A		74/1	HCU-n-XHCU	: 2	74/1	2x1,5mm²	EN700AC 0215
ECC-n-WnHCU_P	Sreen	74/1	-CCU-n	: EMC bus bar		74/1	HCU-n	: Screen in gland	74/1	2x1,5mm²	EN700AC 0215

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 211(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
EGB-W1EGB	1	171/5	EGB-X1	: 1	1	171/4	-U1	: 62	171/5	7x0.75mm²	EN700AC 0707
EGB-W1EGB	2	171/5	EGB-X1	: 2	2	171/4	-U1	: 61	171/5	7x0.75mm²	EN700AC 0707
EGB-W1EGB	3	171/5	EGB-X1	: 3	1	171/5	-U1	: 7	171/5	7x0.75mm²	EN700AC 0707
EGB-W1EGB	4	171/5	EGB-X1	: 4	2	171/5	-U1	: 6	171/5	7x0.75mm²	EN700AC 0707
EGB-W1EGB	5	171/6	EGB-X1	: 5	1	171/7	-U1	: 32	171/6	7x0.75mm²	EN700AC 0707
EGB-W1EGB	6	171/6	EGB-X1	: 6	2	171/7	-U1	: 31	171/6	7x0.75mm²	EN700AC 0707
EGB-W1EGB	Screen	171/6	EGB	: Screen in gland		171/7	-U1	: Screen	171/6	7x0.75mm²	EN700AC 0707
EGB-W2EGB	BN	171/6	-U1	: GND		171/6	-S1	: BN	171/8		Sensor tail
EGB-W2EGB	GN	171/5	-U1	: Vref		171/5	-S1	: GN	171/8		Sensor tail
EGB-W2EGB	WH or BK	171/5	-U1	: Vpos		171/5	-S1	: WH or BK	171/8		Sensor tail
EGB-W2EGB	YE	171/5	-U1	: Vcc		171/5	-S1	: YE	171/8		Sensor tail
EGB-W2EGB	Screen	171/6	-U1	: Screen		171/6	-S1	: Sceen	171/8		Sensor tail
EICC-WPEICU-A	1	139/1	-EICU-A.J01	: A		139/1	EICC-XP	: 1	139/1	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	2	139/2	-EICU-A.J01	: B		139/2	EICC-XP	: 2	139/2	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	3	139/2	-EICU-A.J01	: C		139/2	EICC-XP	: 3	139/2	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	Screen	139/2	-EICU-A.J01	: D		139/2	EICC-XP	: 4	139/2	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	1	139/3	-EICU-B.J01	: A		139/3	EICC-XP	: 5	139/3	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	2	139/3	-EICU-B.J01	: B		139/3	EICC-XP	: 6	139/3	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	3	139/4	-EICU-B.J01	: C		139/4	EICC-XP	: 7	139/4	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	Screen	139/4	-EICU-B.J01	: D		139/4	EICC-XP	: 8	139/4	3x2,5mm²	EN700AC 0325
EICC-WXNET-A	1	90/1	-MOP-A	: 3		89/6	-EICU-A-XNET-A	: 1	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	2	90/1	-MOP-A	: 8		89/6	-EICU-A-XNET-A	: 2	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	Screen	90/1	-MOP-A	: Screen in Frame		89/6	-EICU-A-XNET-A	: S	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	1	90/1	-EC-MOP-A	: 1B		89/6	-EICU-A-XNET-A	: 1	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	2	90/1	-EC-MOP-A	: 1A		89/6	-EICU-A-XNET-A	: 2	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	Screen	90/1	-EC-MOP-A	: Screen in Frame		89/6	-EICU-A-XNET-A	: S	90/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	1	98/1	-MOP-B	: 3		97/6	-ECU-B-XNET-B	: 1	98/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	2	98/1	-MOP-B	: 8		97/6	-ECU-B-XNET-B	: 2	98/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	Screen	98/1	-MOP-B	: Screen in Frame		97/6	-ECU-B-XNET-B	: S	98/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	1	98/1	-EC-MOP-B	: 1A		97/6	-EICU-B-XNET-B	: 1	98/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	2	98/1	-EC-MOP-B	: 1B		97/6	-EICU-B-XNET-B	: 2	98/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	Screen	98/1	-EC-MOP-B	: Screen in Frame		97/6	-EICU-B-XNET-B	: 3	98/1	1x2x0.75mm²	EN700AF 0107

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 212(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
HCU-n-WLUB-n	1	77/2	HCU-n-XHCU	: 17	1	77/2	-LUB-n	: 1	77/2	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	2	77/2	HCU-n-XHCU	: 18	2	77/2	-LUB-n	: 2	77/2	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	3	77/3	HCU-n-XHCU	: 19	1	77/3	-LUB-n	: 3	77/3	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	4	77/3	HCU-n-XHCU	: 20	2	77/3	-LUB-n	: 4	77/3	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	5	77/3	HCU-n-XHCU	: 21	3	77/3	-LUB-n	: 5	77/3	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	6	77/4	HCU-n-XHCU	: 22	1	77/4	-LUB-n	: 6	77/4	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	7	77/4	HCU-n-XHCU	: 23	2	77/4	-LUB-n	: 7	77/4	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	8	77/4	HCU-n-XHCU	: 24	3	77/4	-LUB-n	: 8	77/4	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	9	77/4	HCU-n-XHCU	: 25	4	77/4	-LUB-n	: 9	77/4	14x0.75mm²	EN700AC 1407
HCU-n-WLUB-n	Screen	77/4	HCU-n	: Screen in gland		77/4	-LUB-n	: Screen in gland	77/4	14x0.75mm²	EN700AC 1407

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 213(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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YARD SUPPLY CABLE LIST

YARD SUPPLY CABLE LIST	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04
	Scale:	Size: A3	Product Type: ~~ME ECS 5-12 CYL~~		Projection:	Page No.: 214(225)	
	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260077-4	
	Final User Info. No.:		Final User Description: ME ECS 7 CYL			Final User Ident. No.: 4H-12760	

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W1EGB	1	171/4	-SCU.J21	: C		171/4	EGB-X1	: 1	171/4	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	2	171/4	-SCU.J21	: D		171/4	EGB-X1	: 2	171/4	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	3	171/5	-SCU.J70	: B		171/5	EGB-X1	: 3	171/5	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	4	171/5	-SCU.J70	: C		171/5	EGB-X1	: 4	171/5	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	5	171/7	-SCU.J20	: C		171/7	EGB-X1	: 5	171/7	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	6	171/7	-SCU.J20	: D		171/7	EGB-X1	: 6	171/7	7x0.75mm²	EN700AC 0707
ECC-1-W1EGB	Screen	171/7	-SCU	: EMC bus bar		171/7	EGB	: Screen in gland	171/7	7x0.75mm²	EN700AC 0707
ECC-1-W1WHR	1	173/1	-SCU.J43	: C		173/1	WHR-XWHR	: *	173/1	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	2	173/1	-SCU.J43	: D		173/1	WHR-XWHR	: *	173/1	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	3	173/2	-SCU.J71	: B		173/2	WHR-XWHR	: -mA	173/2	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	4	173/2	-SCU.J71	: C		173/2	WHR-XWHR	: +mA	173/2	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	5	173/3	-SCU.J26	: A	ID 8772	173/3	WHR-XWHR	: 0V	173/3	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	6	173/3	-SCU.J26	: B		173/3	WHR-XWHR	: -mA	173/3	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	7	173/4	-SCU.J26	: C		173/4	WHR-XWHR	: +mA	173/4	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	8	173/4	-SCU.J26	: D		173/4	WHR-XWHR	: +24V	173/4	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	Screen	173/4	-SCU	: EMC bus bar		173/4	WHR	: Screen in gland	173/4	12x0.75mm²	EN700AC 1207
ECC-1-W2001-A	1	160/2	ECC-1-XAMS	: 1	1	160/2	SS-XC 2001-A	: 1	160/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-A	2	160/2	ECC-1-XAMS	: 2	2	160/2	SS-XC 2001-A	: 2	160/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-A	Screen	160/2	ECC-1	: EMC bus bar		160/2	SS	: Screen	160/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	1	160/7	ECC-1-XAMS	: 3	1	160/7	SS-XC 2001-B	: 1	160/7	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	2	160/7	ECC-1-XAMS	: 4	2	160/7	SS-XC 2001-B	: 2	160/7	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	Screen	160/7	ECC-1	: EMC bus bar		160/7	SS	: Screen	160/7	2x0.75mm²	EN700AC 0207
ECC-1-W2005-A.B	1	161/2	ECC-1-XAMS	: 5	1	161/2	SS	: *	161/2	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	2	161/2	ECC-1-XAMS	: 6	2	161/2	SS	: *	161/2	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	3	161/7	ECC-1-XAMS	: 7	1	161/7	SS	: *	161/7	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	4	161/7	ECC-1-XAMS	: 8	2	161/7	SS	: *	161/7	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	Screen	161/7	ECC-1	: EMC bus bar		161/7	SS	: Screen	161/7	5x0.75mm²	EN700AC 0507
ECC-1-W2010-A	1	152/2	EICC-XA	: 13	1	152/2	AMS-XC 2010-A	: 1	152/2	2x0.75mm²	EN700AC 0207
ECC-1-W2010-A	2	152/2	EICC-XA	: 14	2	152/2	AMS-XC 2010-A	: 2	152/2	2x0.75mm²	EN700AC 0207
ECC-1-W2010-A	Screen	152/2	EICC	: EMC bus bar		152/2	AMS	: Screen	152/2	2x0.75mm²	EN700AC 0207
ECC-1-W2010-B	1	152/7	EICC-XB	: 13	1	152/7	AMS-XC 2010-B	: 1	152/7	2x0.75mm²	EN700AC 0207
ECC-1-W2010-B	2	152/7	EICC-XB	: 14	2	152/7	AMS-XC 2010-B	: 2	152/7	2x0.75mm²	EN700AC 0207
ECC-1-W2010-B	Screen	152/7	EICC	: EMC bus bar		152/7	AMS	: Screen	152/7	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 215(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal	Page/Grid	Type	Part no.
ECC-1-W2020-A	1	156/2	EICC-XA : 76	1	156/2	SS : *	156/2	2x0.75mm²	EN700AC 0207
ECC-1-W2020-A	2	156/2	EICC-XA : 77	2	156/2	SS : *	156/2	2x0.75mm²	EN700AC 0207
ECC-1-W2020-A	Screen	156/2	EICC : EMC bus bar		156/2	SS : Screen	156/2	2x0.75mm²	EN700AC 0207
ECC-1-W2020-B	1	156/7	EICC-XA : 76	1	156/7	SS : *	156/7	2x0.75mm²	EN700AC 0207
ECC-1-W2020-B	2	156/7	EICC-XA : 77	2	156/7	SS : *	156/7	2x0.75mm²	EN700AC 0207
ECC-1-W2020-B	Screen	156/7	EICC : EMC bus bar		156/7	SS : Screen	156/7	2x0.75mm²	EN700AC 0207
ECC-1-W2021-A	1	154/2	EICC-XA : 66	1	154/2	SS : *	154/2	2x0.75mm²	EN700AC 0207
ECC-1-W2021-A	2	154/2	EICC-XA : 67	2	154/2	SS : *	154/2	2x0.75mm²	EN700AC 0207
ECC-1-W2021-A	Screen	154/2	EICC : EMC bus bar		154/2	SS : Screen	154/2	2x0.75mm²	EN700AC 0207
ECC-1-W2021-B	1	154/7	EICC-XB : 66	1	154/7	SS : *	154/7	2x0.75mm²	EN700AC 0207
ECC-1-W2021-B	2	154/7	EICC-XB : 67	2	154/7	SS : *	154/7	2x0.75mm²	EN700AC 0207
ECC-1-W2021-B	Screen	154/7	EICC : EMC bus bar		154/7	SS : Screen	154/7	2x0.75mm²	EN700AC 0207
ECC-1-W2130-A	1	158/2	EICC-XA : 78	1	158/2	AMS : *	158/2	2x0.75mm²	EN700AC 0207
ECC-1-W2130-A	2	158/2	EICC-XA : 79	2	158/2	AMS : *	158/2	2x0.75mm²	EN700AC 0207
ECC-1-W2130-A	Screen	158/2	EICC : EMC bus bar		158/2	AMS : Screen	158/2	2x0.75mm²	EN700AC 0207
ECC-1-W2130-B	1	158/7	EICC-XB : 78	1	158/7	AMS : *	158/7	2x0.75mm²	EN700AC 0207
ECC-1-W2130-B	2	158/7	EICC-XB : 79	2	158/7	AMS : *	158/7	2x0.75mm²	EN700AC 0207
ECC-1-W2130-B	Screen	158/7	EICC : EMC bus bar		158/7	AMS : Screen	158/7	2x0.75mm²	EN700AC 0207
ECC-1-W2131-A	1	159/2	EICC-XA : 82	1	159/2	AMS : *	159/2	2x0.75mm²	EN700AC 0207
ECC-1-W2131-A	2	159/2	EICC-XA : 83	2	159/2	AMS : *	159/2	2x0.75mm²	EN700AC 0207
ECC-1-W2131-A	Screen	159/2	EICC : EMC bus bar		159/2	AMS : Screen	159/2	2x0.75mm²	EN700AC 0207
ECC-1-W2131-B	1	159/7	EICC-XB : 82	1	159/7	AMS : *	159/7	2x0.75mm²	EN700AC 0207
ECC-1-W2131-B	2	159/7	EICC-XB : 83	2	159/7	AMS : *	159/7	2x0.75mm²	EN700AC 0207
ECC-1-W2131-B	Screen	159/7	EICC : EMC bus bar		159/7	AMS : Screen	159/7	2x0.75mm²	EN700AC 0207
ECC-1-W2140-A	1	165/2	EICC-XA : 17	1	165/2	ECR : 0V	165/2	5x0.75mm²	EN700AC 0507
ECC-1-W2140-A	2	165/2	EICC-XA : 18	2	165/2	ECR : -mA	165/2	5x0.75mm²	EN700AC 0507
ECC-1-W2140-A	3	165/2	EICC-XA : 19	3	165/2	ECR : +mA	165/2	5x0.75mm²	EN700AC 0507
ECC-1-W2140-A	4	165/2	EICC-XA : 20	4	165/2	ECR : +24V	165/2	5x0.75mm²	EN700AC 0507
ECC-1-W2140-A	Screen	165/2	EICC : EMC bus bar		165/2	ECR : Screen	165/2	5x0.75mm²	EN700AC 0507

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 216(225)

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Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W2140-B	1	165/7	EICC-XB	: 17	1	165/7	ECR	: 0V	165/7	5x0.75mm²	EN700AC 0507
ECC-1-W2140-B	2	165/7	EICC-XB	: 18	2	165/7	ECR	: -mA	165/7	5x0.75mm²	EN700AC 0507
ECC-1-W2140-B	3	165/7	EICC-XB	: 19	3	165/7	ECR	: +mA	165/7	5x0.75mm²	EN700AC 0507
ECC-1-W2140-B	4	165/7	EICC-XB	: 20	4	165/7	ECR	: +24V	165/7	5x0.75mm²	EN700AC 0507
ECC-1-W2140-B	Screen	165/7	EICC	: EMC bus bar		165/7	ECR	: Screen	165/7	5x0.75mm²	EN700AC 0507
ECC-1-W2141-A	1	166/2	EICC-XA	: 25	1	166/2	ECR-XC 2141-A	: 1	166/2	2x0.75mm²	EN700AC 0207
ECC-1-W2141-A	2	166/2	EICC-XA	: 26	2	166/2	ECR-XC 2141-A	: 2	166/2	2x0.75mm²	EN700AC 0207
ECC-1-W2141-A	Screen	166/2	EICC	: EMC bus bar		166/2	ECR	: Screen	166/2	2x0.75mm²	EN700AC 0207
ECC-1-W2141-B	1	166/7	EICC-XB	: 25	1	166/7	ECR-XC 2141-B	: 1	166/7	2x0.75mm²	EN700AC 0207
ECC-1-W2141-B	2	166/7	EICC-XB	: 26	2	166/7	ECR-XC 2141-B	: 2	166/7	2x0.75mm²	EN700AC 0207
ECC-1-W2141-B	Screen	166/7	EICC	: EMC bus bar		166/7	ECR	: Screen	166/7	2x0.75mm²	EN700AC 0207
ECC-1-W2142-A	1	164/2	EICC-XA	: 9	1	164/2	ECR-XC 2142-A	: 1	164/2	2x0.75mm²	EN700AC 0207
ECC-1-W2142-A	2	164/2	EICC-XA	: 10	2	164/2	ECR-XC 2142-A	: 2	164/2	2x0.75mm²	EN700AC 0207
ECC-1-W2142-A	Screen	164/2	EICC	: EMC bus bar		164/2	ECR	: Screen	164/2	2x0.75mm²	EN700AC 0207
ECC-1-W2142-B	1	164/7	EICC-XB	: 9	1	164/7	ECR-XC 2142-B	: 1	164/7	2x0.75mm²	EN700AC 0207
ECC-1-W2142-B	2	164/7	EICC-XB	: 10	2	164/7	ECR-XC 2142-B	: 2	164/7	2x0.75mm²	EN700AC 0207
ECC-1-W2142-B	Screen	164/7	EICC	: EMC bus bar		164/7	ECR	: Screen	164/7	2x0.75mm²	EN700AC 0207
ECC-1-W2143-A	1	167/2	EICC-XA	: 29	1	167/2	ECR-XC 2143-A	: 1	167/2	2x0.75mm²	EN700AC 0207
ECC-1-W2143-A	2	167/2	EICC-XA	: 30	2	167/2	ECR-XC 2143-A	: 2	167/2	2x0.75mm²	EN700AC 0207
ECC-1-W2143-A	Screen	167/2	EICC	: EMC bus bar		167/2	ECR	: Screen	167/2	2x0.75mm²	EN700AC 0207
ECC-1-W2143-B	1	167/7	EICC-XB	: 29	1	167/7	ECR-XC 2143-B	: 1	167/7	2x0.75mm²	EN700AC 0207
ECC-1-W2143-B	2	167/7	EICC-XB	: 30	2	167/7	ECR-XC 2143-B	: 2	167/7	2x0.75mm²	EN700AC 0207
ECC-1-W2143-B	Screen	167/7	EICC	: EMC bus bar		167/7	ECR	: Screen	167/7	2x0.75mm²	EN700AC 0207
ECC-1-W2180-A	1	168/2	EICC-XA	: 64	1	168/2	ECR	: *	168/2	2x0.75mm²	EN700AC 0207
ECC-1-W2180-A	2	168/2	EICC-XA	: 65	2	168/2	ECR	: *	168/2	2x0.75mm²	EN700AC 0207
ECC-1-W2180-A	Screen	168/2	EICC	: EMC bus bar		168/2	ECR	: Screen	168/2	2x0.75mm²	EN700AC 0207
ECC-1-W2180-B	1	168/7	EICC-XB	: 64	1	168/7	ECR	: *	168/7	2x0.75mm²	EN700AC 0207
ECC-1-W2180-B	2	168/7	EICC-XB	: 65	2	168/7	ECR	: *	168/7	2x0.75mm²	EN700AC 0207
ECC-1-W2180-B	Screen	168/7	EICC	: EMC bus bar		168/7	ECR	: Screen	168/7	2x0.75mm²	EN700AC 0207
ECC-1-W2201-A	1	150/2	EICC-XA	: 1	1	150/2	AMS	: *	150/2	2x0.75mm²	EN700AC 0207
ECC-1-W2201-A	2	150/2	EICC-XA	: 2	2	150/2	AMS	: *	150/2	2x0.75mm²	EN700AC 0207
ECC-1-W2201-A	Screen	150/2	EICC	: EMC bus bar		150/2	AMS	: Screen	150/2	2x0.75mm²	EN700AC 0207

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 217(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by Hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W2201-B	1	150/7	EICC-XB	: 1	1	150/7	AMS	: *	150/7	2x0.75mm²	EN700AC 0207
ECC-1-W2201-B	2	150/7	EICC-XB	: 2	2	150/7	AMS	: *	150/7	2x0.75mm²	EN700AC 0207
ECC-1-W2201-B	Screen	150/7	EICC	: EMC bus bar		150/7	AMS	: Screen	150/7	2x0.75mm²	EN700AC 0207
ECC-1-W2202-A	1	155/2	EICC-XA	: 68	1	155/2	AMS	: *	155/2	2x0.75mm²	EN700AC 0207
ECC-1-W2202-A	2	155/2	EICC-XA	: 69	2	155/2	AMS	: *	155/2	2x0.75mm²	EN700AC 0207
ECC-1-W2202-A	Screen	155/2	EICC	: EMC bus bar		155/2	AMS	: Screen	155/2	2x0.75mm²	EN700AC 0207
ECC-1-W2202-B	1	155/7	EICC-XB	: 68	1	155/7	AMS	: *	155/7	2x0.75mm²	EN700AC 0207
ECC-1-W2202-B	2	155/7	EICC-XB	: 69	2	155/7	AMS	: *	155/7	2x0.75mm²	EN700AC 0207
ECC-1-W2202-B	Screen	155/7	EICC	: EMC bus bar		155/7	AMS	: Screen	155/7	2x0.75mm²	EN700AC 0207
ECC-1-W2205-A	1	151/2	EICC-XA	: 11	1	151/2	AMS-XC 2205-A	: 1	151/2	2x0.75mm²	EN700AC 0207
ECC-1-W2205-A	2	151/2	EICC-XA	: 12	2	151/2	AMS-XC 2205-A	: 2	151/2	2x0.75mm²	EN700AC 0207
ECC-1-W2205-A	Screen	151/2	EICC	: EMC bus bar		151/2	AMS	: Screen	151/2	2x0.75mm²	EN700AC 0207
ECC-1-W2205-B	1	151/7	EICC-XB	: 11	1	151/7	AMS-XC 2205-B	: 1	151/7	2x0.75mm²	EN700AC 0207
ECC-1-W2205-B	2	151/7	EICC-XB	: 12	2	151/7	AMS-XC 2205-B	: 2	151/7	2x0.75mm²	EN700AC 0207
ECC-1-W2205-B	Screen	151/7	EICC	: EMC bus bar		151/7	AMS	: Screen	151/7	2x0.75mm²	EN700AC 0207
ECC-1-W2207-A	1	157/2	EICC-XA	: 78	1	157/2	SS	: *	157/2	2x0.75mm²	EN700AC 0207
ECC-1-W2207-A	2	157/2	EICC-XA	: 79	2	157/2	SS	: *	157/2	2x0.75mm²	EN700AC 0207
ECC-1-W2207-A	Screen	157/2	EICC	: EMC bus bar		157/2	SS	: Screen	157/2	2x0.75mm²	EN700AC 0207
ECC-1-W2207-B	1	157/7	EICC-XB	: 78	1	157/7	SS	: *	157/7	2x0.75mm²	EN700AC 0207
ECC-1-W2207-B	2	157/7	EICC-XB	: 79	2	157/7	SS	: *	157/7	2x0.75mm²	EN700AC 0207
ECC-1-W2207-B	Screen	157/7	EICC	: EMC bus bar		157/7	SS	: Screen	157/7	2x0.75mm²	EN700AC 0207
ECC-1-W2210-A	1	153/1	EICC-XA	: 61	1	153/1	AMS	: GND	153/1	3x0.75mm²	EN700AC 0307
ECC-1-W2210-A	2	153/2	EICC-XA	: 62	2	153/2	AMS	: IN	153/2	3x0.75mm²	EN700AC 0307
ECC-1-W2210-A	3	153/2	EICC-XA	: 63	3	153/2	AMS	: +24VDC	153/2	3x0.75mm²	EN700AC 0307
ECC-1-W2210-A	Screen	153/2	EICC	: EMC bus bar		153/2	AMS	: Screen	153/2	3x0.75mm²	EN700AC 0307
ECC-1-W2210-B	1	153/6	EICC-XB	: 61	1	153/6	AMS	: GND	153/6	3x0.75mm²	EN700AC 0307
ECC-1-W2210-B	2	153/7	EICC-XB	: 62	2	153/7	AMS	: IN	153/7	3x0.75mm²	EN700AC 0307
ECC-1-W2210-B	3	153/7	EICC-XB	: 63	3	153/7	AMS	: +24VDC	153/7	3x0.75mm²	EN700AC 0307
ECC-1-W2210-B	Screen	153/7	EICC	: EMC bus bar		153/7	AMS	: Screen	153/7	3x0.75mm²	EN700AC 0307

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 218(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-W8801-1	1	171/1	-SCU.J35	: A	ID 8801-1	171/1	-XC 8801-1	: 0V	171/1	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	2	171/2	-SCU.J35	: B		171/2	-XC 8801-1	: -mA	171/2	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	3	171/2	-SCU.J35	: C		171/2	-XC 8801-1	: +mA	171/2	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	4	171/2	-SCU.J35	: D		171/2	-XC 8801-1	: +24V	171/2	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	Screen	171/2	-SCU	: EMC bus bar		171/2	-XC 8801-1	: Screen in gland	171/2	5x0.75mm²	EN700AC 0507
ECC-1-WAUXB-1	1	65/2	-ACU-1.J40	: C		65/2	AUXB-1-X2	: 9	65/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	2	65/2	-ACU-1.J40	: D		65/2	AUXB-1-X2	: 12	65/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	3	65/3	-ACU-1.J41	: C		65/3	AUXB-1-X2	: 5	65/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	4	65/3	-ACU-1.J41	: D		65/3	AUXB-1-X2	: 6	65/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	5	65/4	-ACU-1.J82	: A	ID 8820-1	65/4	AUXB-1-X2	: 3	65/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	6	65/4	-ACU-1.J82	: B		65/4	AUXB-1-X2	: 4	65/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	Screen	65/4	ECC-1	: Screen in gland		65/4	AUXB-1	: Screen in gland	65/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	1	66/2	-ACU-2.J40	: C		66/2	AUXB-2-X2	: 9	66/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	2	66/2	-ACU-2.J40	: D		66/2	AUXB-2-X2	: 12	66/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	3	66/3	-ACU-2.J41	: C		66/3	AUXB-2-X2	: 5	66/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	4	66/3	-ACU-2.J41	: D		66/3	AUXB-2-X2	: 6	66/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	5	66/4	-ACU-2.J82	: A	ID 8820-2	66/4	AUXB-2-X2	: 3	66/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	6	66/4	-ACU-2.J82	: B		66/4	AUXB-2-X2	: 4	66/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	Screen	66/4	ECC-1	: EMC bus bar		66/4	AUXB-2	: Screen in gland	66/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	1	67/2	-ACU-3.J40	: C		67/2	AUXB-3-X2	: 9	67/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	2	67/2	-ACU-3.J40	: D		67/2	AUXB-3-X2	: 12	67/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	3	67/3	-ACU-3.J41	: C		67/3	AUXB-3-X2	: 5	67/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	4	67/3	-ACU-3.J41	: D		67/3	AUXB-3-X2	: 6	67/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	5	67/4	-ACU-3.J82	: A	ID 8820-3	67/4	AUXB-3-X2	: 3	67/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	6	67/4	-ACU-3.J82	: B		67/4	AUXB-3-X2	: 4	67/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	Screen	67/4	ECC-1	: EMC bus bar		67/4	AUXB-3	: Screen in gland	67/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	1	68/2	-ACU-1.J42	: C		68/2	AUXB-4-X2	: 9	68/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	2	68/2	-ACU-1.J42	: D		68/2	AUXB-4-X2	: 12	68/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	3	68/3	-ACU-1.J43	: C		68/3	AUXB-4-X2	: 5	68/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	4	68/3	-ACU-1.J43	: D		68/3	AUXB-4-X2	: 6	68/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	5	68/4	-ACU-1.J81	: A	ID 8820-4	68/4	AUXB-4-X2	: 3	68/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	6	68/4	-ACU-1.J81	: B		68/4	AUXB-4-X2	: 4	68/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	Screen	68/4	ECC-1	: EMC bus bar		68/4	AUXB-4	: Screen in gland	68/4	7x0.75mm²	EN700AC 0707

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 219(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
~~ECC-1-WAUXB-5~~	1	69/2	-ACU-2.J42	: C		69/2	AUXB-5-X2	: 9	69/2	7x0.75mm²	~~EN700AC 0707~~
ECC-1-WAUXB-5	2	69/2	-ACU-2.J42	: D		69/2	AUXB-5-X2	: 12	69/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	3	69/3	-ACU-2.J43	: C		69/3	AUXB-5-X2	: 5	69/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	4	69/3	-ACU-2.J43	: D		69/3	AUXB-5-X2	: 6	69/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	5	69/4	-ACU-2.J81	: A	ID 8620-5	69/4	AUXB-5-X2	: 3	69/4	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	6	69/4	-ACU-2.J81	: B		69/4	AUXB-5-X2	: 4	69/4	7x0.75mm²	EN700AC 0707
~~ECC-1-WAUXB-5~~	Screen	69/4	ECC-1	: EMC bus bar		69/4	AUXB-5	: Screen in gland	69/4	7x0.75mm²	~~EN700AC 0707~~
ECC-1-WRCS-A	1	163/2	EICC-XRCS-A	: 1	1	163/2	RCS	: *	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-A	2	163/2	EICC-XRCS-A	: 2	2	163/2	RCS	: *	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-A	3	163/2	EICC-XRCS-A	: 3	3	163/2	RCS	: *	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-A	4	163/2	EICC-XRCS-A	: 4	4	163/2	RCS	: *	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-A	5	163/2	EICC-XRCS-A	: 5	5	163/2	RCS	: *	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-A	Screen	163/2	EICC-XRCS-A	: 6	6	163/2	RCS	: Screen	163/2	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	1	163/7	EICC-XRCS-B	: 1	1	163/7	RCS	: *	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	2	163/7	EICC-XRCS-B	: 2	2	163/7	RCS	: *	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	3	163/7	EICC-XRCS-B	: 3	3	163/7	RCS	: *	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	4	163/7	EICC-XRCS-B	: 4	4	163/7	RCS	: *	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	5	163/7	EICC-XRCS-B	: 5	5	163/7	RCS	: *	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WRCS-B	Screen	163/7	EICC-XRCS-B	: 6	6	163/7	RCS	: Screen	163/7	5x0.75mm²	EN700AC 0507
ECC-1-WSTS-1	1	63/2	-ACU-1.J44	: C		63/2	STS-1-X2	: 9	63/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	2	63/2	-ACU-1.J44	: D		63/2	STS-1-X2	: 12	63/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	3	63/3	-ACU-1.J44	: C		63/3	STS-1-X2	: 5	63/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	4	63/3	-ACU-1.J44	: D		63/3	STS-1-X2	: 6	63/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	5	63/4	-ACU-1.J61	: B		63/4	STS-1-X2	: 3	63/4	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	6	63/4	-ACU-1.J61	: C		63/4	STS-1-X2	: 4	63/4	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	Screen	63/4	ECC-1	: EMC bus bar		63/4	STS-1	: Screen in gland	63/4	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	1	64/2	-ACU-2.J44	: C		64/2	STS-2-X2	: 9	64/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	2	64/2	-ACU-2.J44	: D		64/2	STS-2-X2	: 12	64/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	3	64/3	-ACU-2.J44	: C		64/3	STS-2-X2	: 5	64/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	4	64/3	-ACU-2.J44	: D		64/3	STS-2-X2	: 6	64/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	5	64/4	-ACU-2.J61	: B		64/4	STS-2-X2	: 3	64/4	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	6	64/4	-ACU-2.J61	: C		64/4	STS-2-X2	: 4	64/4	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	Screen	64/4	ECC-1	: EMC bus bar		64/4	STS-2	: Screen in gland	64/4	7x0.75mm²	EN700AC 0707

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 220(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
ECC-1-WTCCO	1	175/2	-ACU-3.J27	: C		175/2	JB TC CUT OUT-X1	: 2	175/2	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	2	175/4	-ACU-3.J35	: C		175/4	JB TC CUT OUT-X1	: 6	175/4	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	3	175/5	-ACU-3.J36	: C		175/5	JB TC CUT OUT-X1	: 10	175/5	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	4	175/7	-ACU-3.J37	: C		175/7	JB TC CUT OUT-X1	: 14	175/7	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	5	175/7	-ACU-3.J37	: A	ID 8778	175/6	JB TC CUT OUT-X1	: 17	175/7	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	6	175/7	-ACU-3.J37	: D		175/7	JB TC CUT OUT-X1	: 18	175/7	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	Screen	175/7	ACU-3	: SCREEN IN GLAND		175/7	JB TC CUT OUT	: SCREEN IN GLAND	175/7	7x0.75mm²	EN700AC 0707
ECC-2-W2002-1	1	162/2	ECC-2-XAMS	: 1	1	162/2	SS-XC 2002-1	: 1	162/2	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	2	162/2	ECC-2-XAMS	: 2	2	162/2	SS-XC 2002-1	: 2	162/2	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	n	162/7	ECC-2-XAMS	: n	1	162/7	SS-XC 2002-n	: 1	162/7	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	n	162/7	ECC-2-XAMS	: n	2	162/7	SS-XC 2002-n	: 2	162/7	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	Screen	162/7	ECC-2	: EMC bus bar		162/7	SS	: Screen	162/7	19x0.75mm²	EN700AC 1907
EICC-W1PMS	1	177/2	EICC-XA	: 37	1	177/2	PMS-XPMS	: *	177/2	7x0.75mm²	EN700AC 0707
EICC-W1PMS	2	177/2	EICC-XA	: 38	2	177/2	PMS-XPMS	: *	177/2	7x0.75mm²	EN700AC 0707
EICC-W1PMS	3	177/3	EICC-XA	: 55	1	177/3	PMS-XPMS	: *	177/3	7x0.75mm²	EN700AC 0707
EICC-W1PMS	4	177/3	EICC-XA	: 56	2	177/3	PMS-XPMS	: *	177/3	7x0.75mm²	EN700AC 0707
EICC-W1PMS	5	177/4	EICC-XA	: 74	1	177/4	PMS-XPMS	: *	177/4	7x0.75mm²	EN700AC 0707
EICC-W1PMS	6	177/4	EICC-XA	: 75	2	177/4	PMS-XPMS	: *	177/4	7x0.75mm²	EN700AC 0707
EICC-W1PMS	Screen	177/4	EICC	: EMC bus bar		177/4	PMS	: Screen in gland	177/4	7x0.75mm²	EN700AC 0707
EICC-W2PMS	1	173/6	EICC-XB	: 37	1	173/6	PMS-XPMS	: *	173/6	7x0.75mm²	EN700AC 0707
EICC-W2PMS	2	173/6	EICC-XB	: 38	2	173/6	PMS-XPMS	: *	173/6	7x0.75mm²	EN700AC 0707
EICC-W2PMS	3	173/7	EICC-XB	: 55	1	173/7	PMS-XPMS	: *	173/7	7x0.75mm²	EN700AC 0707
EICC-W2PMS	4	173/7	EICC-XB	: 56	2	173/7	PMS-XPMS	: *	173/7	7x0.75mm²	EN700AC 0707
EICC-W2PMS	5	173/8	EICC-XB	: 74	1	173/8	PMS-XPMS	: *	173/8	7x0.75mm²	EN700AC 0707
EICC-W2PMS	6	173/8	EICC-XB	: 75	2	173/8	PMS-XPMS	: *	173/8	7x0.75mm²	EN700AC 0707
EICC-W2PMS	Screen	173/8	EICC	: EMC bus bar		173/8	PMS	: Screen in gland	173/8	7x0.75mm²	EN700AC 0707
EICC-W3040	1	177/1	EICC-XA	: 39	1	177/1	PMS-XPMS	: *	177/1	2x0.75mm²	EN700AC 0207
EICC-W3040	2	177/1	EICC-XA	: 40	2	177/1	PMS-XPMS	: *	177/1	2x0.75mm²	EN700AC 0207
EICC-W3040	Screen	177/1	EICC	: EMC bus bar		177/1	PMS	: Screen in gland	177/1	2x0.75mm²	EN700AC 0207
UPS-A-W2904	1	145/2	EICC-XP	: 9	1	145/2	UPS-A-X4	: 1	145/2	2x0.75mm²	EN700AC 0207
UPS-A-W2904	2	145/2	EICC-XP	: 10	2	145/2	UPS-A-X4	: 2	145/2	2x0.75mm²	EN700AC 0207
UPS-A-W2904	Screen	145/2	EICC	: EMC bus bar		145/2	UPS-A	: EMC bus bar	145/2	2x0.75mm²	EN700AC 0207
UPS-A-WEC-MOP-A	1	143/2	-EC-MOP-A	: 1	Power	143/2	UPS-A-X1	: 53	143/2	3x2,5mm²	EN700AC 0325
UPS-A-WEC-MOP-A	2	143/2	-EC-MOP-A	: 3		143/2	UPS-A-X1	: 54A	143/2	3x2,5mm²	EN700AC 0325
UPS-A-WEC-MOP-A	Screen	143/2	-EC-MOP-A	: GND		143/2	UPS-A	: EMC bus bar	143/2	3x2,5mm²	EN700AC 0325

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 221(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
UPS-A-WECC-1	1	137/1	ECC-1-XP	: 1	1	137/1	UPS-A-X1	: 1	137/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	2	137/2	ECC-1-XP	: 2	2	137/2	UPS-A-X1	: 2A	137/2	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	3	137/3	ECC-1-XP	: 5	1	137/3	UPS-A-X1	: 3	137/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	4	137/3	ECC-1-XP	: 6	2	137/3	UPS-A-X1	: 4A	137/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	5	137/5	ECC-1-XP	: 9	1	137/5	UPS-A-X1	: 5	137/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	6	137/5	ECC-1-XP	: 10	2	137/5	UPS-A-X1	: 6A	137/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	7	137/7	ECC-1-XP	: 13	1	137/7	UPS-A-X1	: 7	137/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	8	137/7	ECC-1-XP	: 14	2	137/7	UPS-A-X1	: 8A	137/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	9	138/1	ECC-1-XP	: 17	1	138/1	UPS-A-X1	: 9	138/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	10	138/2	ECC-1-XP	: 18	2	138/2	UPS-A-X1	: 10A	138/2	19x2,5mm²	EN700AC 1925
~~UPS-A-WECC-1~~	~~11~~	~~138/3~~	~~ECC-1-XP~~	~~: 21~~	~~1~~	~~138/3~~	~~UPS-A-X1~~	~~: 11~~	~~138/3~~	~~19x2,5mm²~~	~~EN700AC 1925~~
~~UPS-A-WECC-1~~	~~12~~	~~138/3~~	~~ECC-1-XP~~	~~: 22~~	~~2~~	~~138/3~~	~~UPS-A-X1~~	~~: 12A~~	~~138/3~~	~~19x2,5mm²~~	~~EN700AC 1925~~
UPS-A-WECC-1	13	138/5	ECC-1-XP	: 24	1	138/5	UPS-A-X1	: 13	138/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	14	138/5	ECC-1-XP	: 25	2	138/5	UPS-A-X1	: 14A	138/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	Screen	138/5	ECC-1	: EMC bus bar		138/6	UPS-A	: EMC bus bar	138/6	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	1	140/1	ECC-2-XP	: 1	1	140/1	UPS-A-X1	: 19	140/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	2	140/2	ECC-2-XP	: 2	2	140/2	UPS-A-X1	: 20B	140/2	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	3	140/3	ECC-2-XP	: 5	1	140/3	UPS-A-X1	: 21	140/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	4	140/3	ECC-2-XP	: 6	2	140/3	UPS-A-X1	: 22B	140/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	5	140/5	ECC-2-XP	: 9	1	140/5	UPS-A-X1	: 23	140/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	6	140/5	ECC-2-XP	: 10	2	140/5	UPS-A-X1	: 24B	140/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	7	140/7	ECC-2-XP	: 13	1	140/7	UPS-A-X1	: 25	140/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	8	140/7	ECC-2-XP	: 14	2	140/7	UPS-A-X1	: 26B	140/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	9	141/1	ECC-2-XP	: 17	1	141/1	UPS-A-X1	: 27	141/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	10	141/2	ECC-2-XP	: 18	2	141/2	UPS-A-X1	: 28B	141/2	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	Screen	141/2	ECC-2	: EMC bus bar		141/2	UPS-A	: EMC bus bar	141/2	19x2,5mm²	EN700AC 1925

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 222(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
UPS-A-WECC-3	1	141/3	ECC-3-XP	: 1	1	141/3	UPS-A-X1	: 29	141/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	2	141/3	ECC-3-XP	: 2	2	141/3	UPS-A-X1	: 30B	141/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	3	141/5	ECC-3-XP	: 1	1	141/5	UPS-A-X1	: 31	141/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	4	141/5	ECC-3-XP	: 2	2	141/5	UPS-A-X1	: 32B	141/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	5	141/7	ECC-3-XP	: 1	1	141/7	UPS-A-X1	: 33	141/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	6	141/7	ECC-3-XP	: 2	2	141/7	UPS-A-X1	: 34B	141/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	7	142/1	ECC-3-XP	: 1	1	142/1	UPS-A-X1	: 35	142/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	8	142/2	ECC-3-XP	: 2	2	142/2	UPS-A-X1	: 36B	142/2	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	9	142/3	ECC-3-XP	: 1	1	142/3	UPS-A-X1	: 37	142/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	10	142/3	ECC-3-XP	: 2	2	142/3	UPS-A-X1	: 38B	142/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	11	142/5	ECC-3-XP	: 1	1	142/5	UPS-A-X1	: 39	142/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	12	142/5	ECC-3-XP	: 2	2	142/5	UPS-A-X1	: 40B	142/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	13	142/7	ECC-3-XP	: 1	1	142/7	UPS-A-X1	: 41	142/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	14	142/7	ECC-3-XP	: 2	2	142/7	UPS-A-X1	: 42B	142/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-3	Screen	142/7	ECC-3	: EMC bus bar		142/8	UPS-A	: EMC bus bar	142/8	19x2,5mm²	EN700AC 1925
UPS-A-WEICC	1	139/1	EICC-XP	: 1	1	139/1	UPS-A-X1	: 15	139/1	4x2,5mm²	EN700AC 0425
UPS-A-WEICC	2	139/2	EICC-XP	: 2	2	139/2	UPS-A-X1	: 16A	139/2	4x2,5mm²	EN700AC 0425
UPS-A-WEICC	3	139/3	EICC-XP	: 5	1	139/3	UPS-A-X1	: 17	139/3	4x2,5mm²	EN700AC 0425
UPS-A-WEICC	4	139/3	EICC-XP	: 6	2	139/3	UPS-A-X1	: 18A	139/3	4x2,5mm²	EN700AC 0425
UPS-A-WEICC	Screen	139/3	EICC-XP	: 4	S	139/2	UPS-A	: EMC bus bar	139/4	4x2,5mm²	EN700AC 0425
UPS-A-WMOP-A	1	144/2	JB MOP-A-X	: 1		144/3	UPS-A-X1	: 53	144/2	2x10.0mm²	EN700AC 0299
UPS-A-WMOP-A	2	144/2	JB MOP-A-X	: 2		144/3	UPS-A-X1	: 54A	144/2	2x10.0mm²	EN700AC 0299
UPS-A-WMOP-A	Screen	144/2	JB MOP-A	: EMC bus bar		144/2	UPS-A	: EMC bus bar	144/2	2x10.0mm²	EN700AC 0299
UPS-B-WEC-MOP-B	1	143/7	-EC-MOP-B	: 1	Power	143/7	UPS-B-X1	: 53	143/7	2x2,5mm²	EN700AC 0225
UPS-B-WEC-MOP-B	2	143/7	-EC-MOP-B	: 3		143/7	UPS-B-X1	: 54B	143/7	2x2,5mm²	EN700AC 0225
UPS-B-WEC-MOP-B	Screen	143/7	-EC-MOP-B	: GND		143/7	UPS-B	: EMC bus bar	143/7	2x2,5mm²	EN700AC 0225

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 223(225)

Info. No.: 7B4200 | Item Name: ENGINE CONTROL | Item Id.: 5260077-4

Final User Info. No.: | Final User Description: ME ECS 7 CYL | Final User Ident. No.: 4H-12760

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CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
UPS-B-WECC-1	1	137/2	ECC-1-XP	: 1	1	137/1	UPS-B-X1	: 1	137/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	2	137/2	ECC-1-XP	: 3	3	137/2	UPS-B-X1	: 2B	137/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	3	137/4	ECC-1-XP	: 5	1	137/3	UPS-B-X1	: 3	137/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	4	137/4	ECC-1-XP	: 7	3	137/4	UPS-B-X1	: 4B	137/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	5	137/6	ECC-1-XP	: 9	1	137/5	UPS-B-X1	: 5	137/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	6	137/6	ECC-1-XP	: 11	3	137/5	UPS-B-X1	: 6B	137/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	7	137/7	ECC-1-XP	: 13	1	137/7	UPS-B-X1	: 7	137/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	8	137/8	ECC-1-XP	: 15	3	137/7	UPS-B-X1	: 8B	137/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	9	138/2	ECC-1-XP	: 17	1	138/1	UPS-B-X1	: 9	138/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	10	138/2	ECC-1-XP	: 19	3	138/2	UPS-B-X1	: 10B	138/2	19x2,5mm²	EN700AC 1925
~~UPS-B-WECC-1~~	~~11~~	~~138/4~~	~~ECC-1-XP~~	~~: 21~~	~~1~~	~~138/3~~	~~UPS-B-X1~~	~~: 11~~	~~138/4~~	~~19x2,5mm²~~	~~EN700AC 1925~~
~~UPS-B-WECC-1~~	~~12~~	~~138/4~~	~~ECC-1-XP~~	~~: 23~~	~~3~~	~~138/4~~	~~UPS-B-X1~~	~~: 12B~~	~~138/4~~	~~19x2,5mm²~~	~~EN700AC 1925~~
UPS-B-WECC-1	13	138/6	ECC-1-XP	: 24	1	138/5	UPS-B-X1	: 13	138/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	14	138/6	ECC-1-XP	: 26	3	138/5	UPS-B-X1	: 14B	138/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	Screen	138/6	ECC-1	: EMC bus bar		138/6	UPS-B	: EMC bus bar	138/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	1	140/2	ECC-2-XP	: 1	1	140/1	UPS-B-X1	: 19	140/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	2	140/2	ECC-2-XP	: 3	3	140/2	UPS-B-X1	: 20B	140/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	3	140/4	ECC-2-XP	: 5	1	140/3	UPS-B-X1	: 21	140/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	4	140/4	ECC-2-XP	: 7	3	140/4	UPS-B-X1	: 22B	140/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	5	140/6	ECC-2-XP	: 9	1	140/5	UPS-B-X1	: 23	140/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	6	140/6	ECC-2-XP	: 11	3	140/5	UPS-B-X1	: 24B	140/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	7	140/7	ECC-2-XP	: 13	1	140/7	UPS-B-X1	: 25	140/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	8	140/8	ECC-2-XP	: 15	3	140/7	UPS-B-X1	: 26B	140/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	9	141/2	ECC-2-XP	: 17	1	141/1	UPS-B-X1	: 27	141/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	10	141/2	ECC-2-XP	: 19	3	141/2	UPS-B-X1	: 28B	141/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	Screen	141/2	ECC-2	: EMC bus bar		141/2	UPS-B	: EMC bus bar	141/2	19x2,5mm²	EN700AC 1925

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ~~ME ECS 5-12 CYL~~ | Projection: | Page No.: 224(225)

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Info. No.:	Item Name:	Iten Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

Cable Connection Lists

Cable	Wire	Page/Grid	From	: Terminal		Page/Grid	To	: Terminal	Page/Grid	Type	Part no.
UPS-B-WECC-3	1	141/4	ECC-3-XP	: 1	1	141/3	UPS-B-X1	: 29	141/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	2	141/4	ECC-3-XP	: 3	3	141/4	UPS-B-X1	: 30B	141/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	3	141/6	ECC-3-XP	: 1	1	141/5	UPS-B-X1	: 31	141/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	4	141/6	ECC-3-XP	: 3	3	141/5	UPS-B-X1	: 32B	141/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	5	141/7	ECC-3-XP	: 1	1	141/7	UPS-B-X1	: 33	141/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	6	141/8	ECC-3-XP	: 3	3	141/7	UPS-B-X1	: 34B	141/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	7	142/2	ECC-3-XP	: 1	1	142/1	UPS-B-X1	: 35	142/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	8	142/2	ECC-3-XP	: 3	3	142/2	UPS-B-X1	: 36B	142/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	9	142/4	ECC-3-XP	: 1	1	142/3	UPS-B-X1	: 37	142/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	10	142/4	ECC-3-XP	: 3	3	142/4	UPS-B-X1	: 38B	142/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	11	142/6	ECC-3-XP	: 1	1	142/5	UPS-B-X1	: 39	142/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	12	142/6	ECC-3-XP	: 3	3	142/5	UPS-B-X1	: 40B	142/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	13	142/7	ECC-3-XP	: 1	1	142/7	UPS-B-X1	: 41	142/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	14	142/8	ECC-3-XP	: 3	3	142/7	UPS-B-X1	: 42B	142/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	Screen	142/8	ECC-3	: EMC bus bar		142/8	UPS-B	: EMC bus bar	142/8	19x2,5mm²	EN700AC 1925
UPS-B-WEICC	1	139/2	EICC-XP	: 1	1	139/1	UPS-B-X1	: 15	139/2	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	2	139/2	EICC-XP	: 3	3	139/2	UPS-B-X1	: 16B	139/2	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	3	139/4	EICC-XP	: 5	1	139/3	UPS-B-X1	: 17	139/4	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	4	139/4	EICC-XP	: 7	3	139/4	UPS-B-X1	: 18B	139/4	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	Screen	139/4	EICC-XP	: 8	S	139/4	UPS-B	: EMC bus bar	139/4	4x2,5mm²	EN700AC 0425
UPS-B-WMOP-B	1	144/7	JB MOP-B-X	: 1		144/8	UPS-B-X1	: 53	144/7	2x10.0mm²	EN700AC 0299
UPS-B-WMOP-B	2	144/7	JB MOP-B-X	: 2		144/8	UPS-B-X1	: 54B	144/7	2x10.0mm²	EN700AC 0299
UPS-B-WMOP-B	Screen	144/7	JB MOP-B	: EMC bus bar		144/7	UPS-B	: EMC bus bar	144/7	2x10.0mm²	EN700AC 0299

Cable list

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20120807	CAHV	CAHV	Z4	ZV1202 inverted, EC-MOP added	006331	04

Scale: | Size: A3 | Product Type: ME ECS 5-12 CYL | Projection: | Page No.: 225(225)

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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5260077-4
Final User Info. No.:	**Final User Description:**	**Final User Ident. No.:**
	ME ECS 7 CYL	4H-12760

CAD Drawing - do not correct by hand - PCS Drawing

文 件 说 明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W 7S80ME-C MK9.2
31-106: STARTER FOR AUX.BLOWER	台 份 Set No.	3#
	工程编号 Engine No.	CE0290T
	船 厂 Shipyard	DACKS
	船 号 Hull No.	DE014
	船级社 Classification Society	LR

STARTER FOR AUX. BLOWER

辅助风机起动器

Page 12(maker) updated	5
Drawing updated	4
Pages 3-10 updated acc.to yard request	3
Drawing updated,motor changed to 104kW, add weight of control box, LED lighting	2
Drawing updated	1

修 改 说 明
Corrected Description

杨钟伟2014-01-07	刘欣2014-01-07	焦雷2014-01-07				5
杨钟伟2013-10-11	刘欣2013-10-11	焦雷2013-10-11				4
杨钟伟2013-07-16	刘欣2013-07-16	焦雷2013-07-16				3
杨钟伟2013-07-10	刘欣2013-07-10	焦雷2013-07-10				2
杨钟伟2013-06-07	刘欣2013-06-07	焦雷2013-06-07				1
杨钟伟2012-12-07	刘欣2012-12-07	焦雷2012-12-07				0
编 制 Compiled	校 对 Checked	审 核 Confirmed	审 定 Approved	会 签 Countersigned	批 准 Authorized	版本号 C.No.
被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页数 Pages 1	总页数 Total Pages	12

上海中船三井造船柴油机有限公司 CSSC-MES Diesel Co., Ltd.	文件编号 Document No.	D6513374-0.

OWNER	:	-
CUSTOMER	:	CSSC-MES DIESEL CO., LTD
SHIPYARD	:	DACKS
PROJECT	:	MAN B&W 7S80ME-C ENGINE AUX.-BLOWER MOTER STARTER PANEL
HULL No.	:	DE014
ENGINE No.	:	CE0290(#3)
CLASS	:	LR
MFG No.	:	-
DRAW. No.		B-121104-00 REV 2

BOND Instrumentation(S) Pte Ltd

No.	DRAWING No.	P. No.	DRAWING TITLE	REV.
1	B-121104-00	01	B-COVER	0
2	B-121104-01	01	DRAWING LIST	2
3	B-121104-02-01	01	PANEL LAYOUT DRAWING	2
4	B-121104-02-02	01	PANEL LAYOUT DRAWING	1
5	B-121104-02-03	01	NAME & WARNING PLATE	2
6	B-121104-03-01	01	STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.1)	1
7	B-121104-03-02	01	STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.1)	1
8	B-121104-03-03	01	STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.2)	1
9	B-121104-03-04	01	STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.2)	1
10	B-121104-03-05	01	TERMINAL ARRANGEMENT	2
11	B-121104-04	01	MATERIAL LIST	0
12	B-121104-05	01	SPARE LIST	2

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.:

DRAWING TITLE: DRAWING LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: B-121104-01

REV.: 2

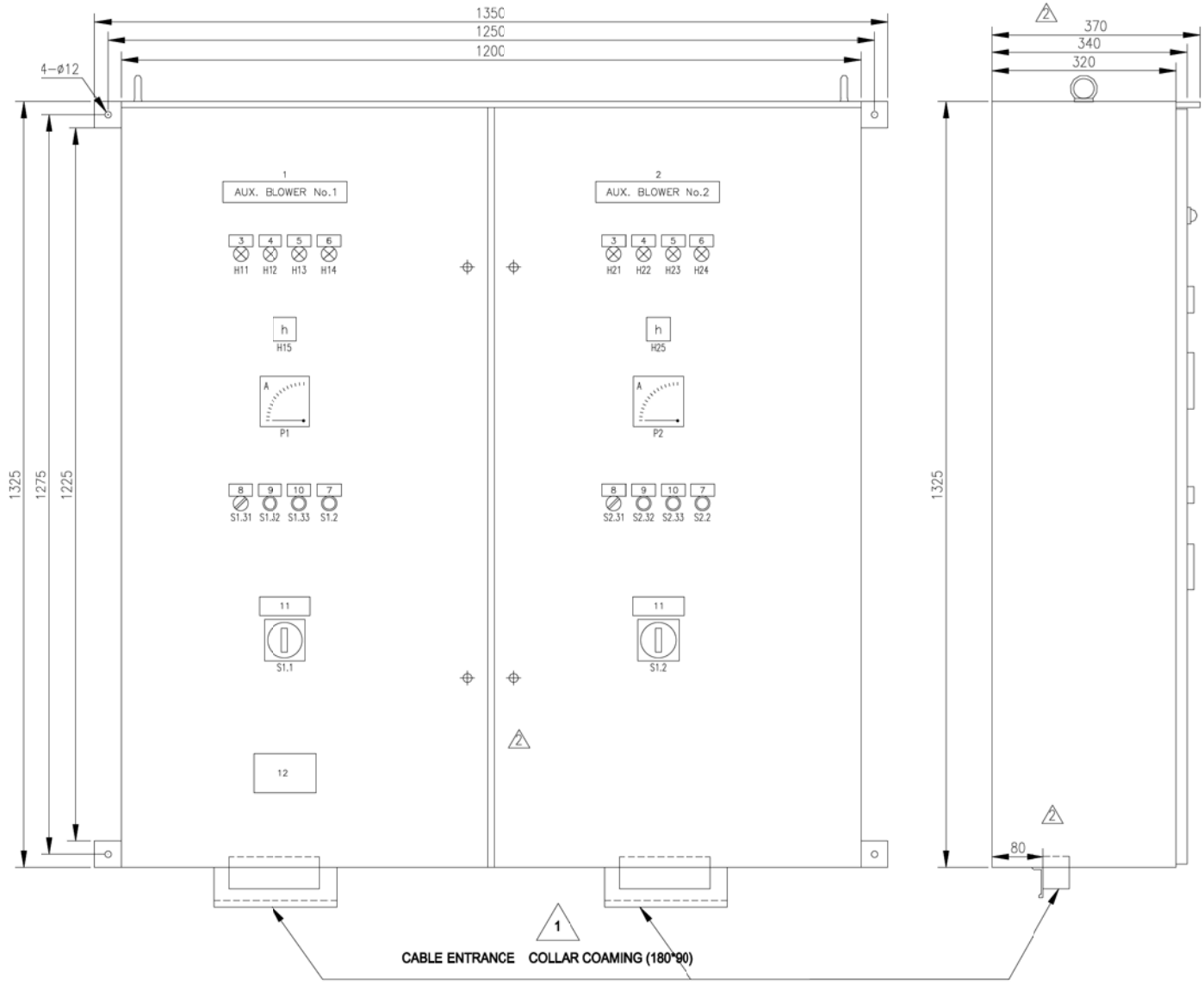
SCALE: NTS

SIZE: A4

01 OF 01

BOND INSTRUMENTATION

BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



COLOUR	: MUNZELL 7.5 BG 7/2
THICKNESS	: 2 mm
PROTECTION	: IP 44
PAINT	: SPRAY PAINT
SUPPLY VOLTAGE	: 3 X 440 V/60Hz
MOTOR	: P=104KW, I=160A
WEIGHT	: 160KG

NP	DESCRIPTION	Qty.
1	**AUX.BLOWER No.1 1#鼓风机起动器**	**1**
2	**AUX.BLOWER No.2 2#鼓风机起动器**	**1**
3	**POWER ON 电源**	**2**
4	**HEATER ON 加热**	**2**
5	**RUN 运行**	**2**
6	**OVERLOAD 超负荷**	**2**
7	**LAMP TEST 试灯**	**2**
8	**LOCAL-REMOTE 本地 遥控**	**2**
9	**STOP 停止**	**2**
10	**START 起动**	**2**
11	**(WARNING PLATE) 警示牌**	**2**
12	**(BOND) 厂牌**	**1**

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: –

DRAWING TITLE: PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: B-121104-02-01

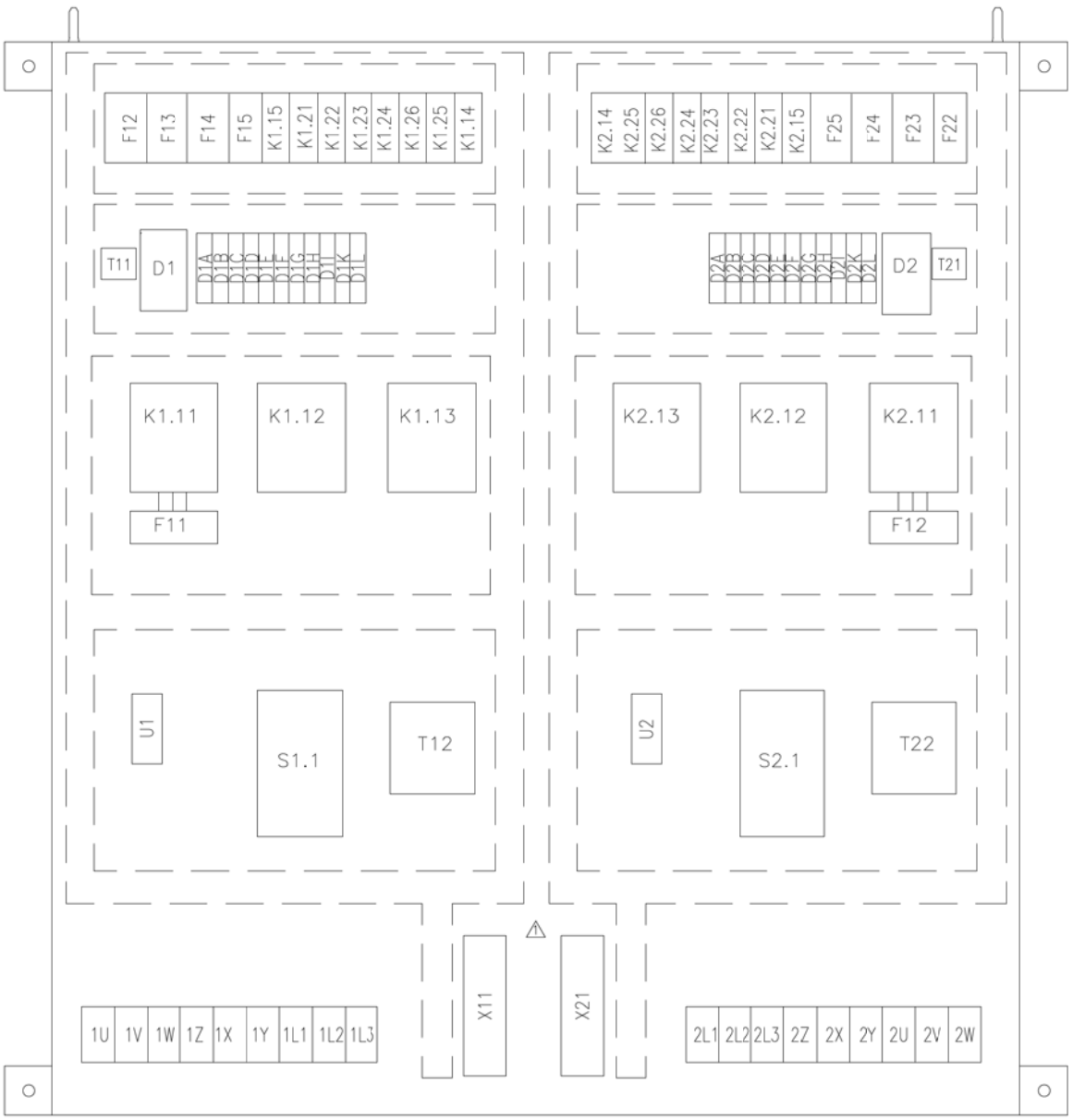
REV.: 2

SCALE: NTS

SIZE: A4

01 OF 01

BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



REV.	DATE	DESCRIPTION	BY	APPROVED BY
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: -

DRAWING TITLE: PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: B-121104-02-02

REV.: 1

SCALE: NTS

SIZE: A4

01 OF 01

BOND INSTRUMENTATION

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8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

FIG. 1(A)

FIG. 1(B)

FIG. 2

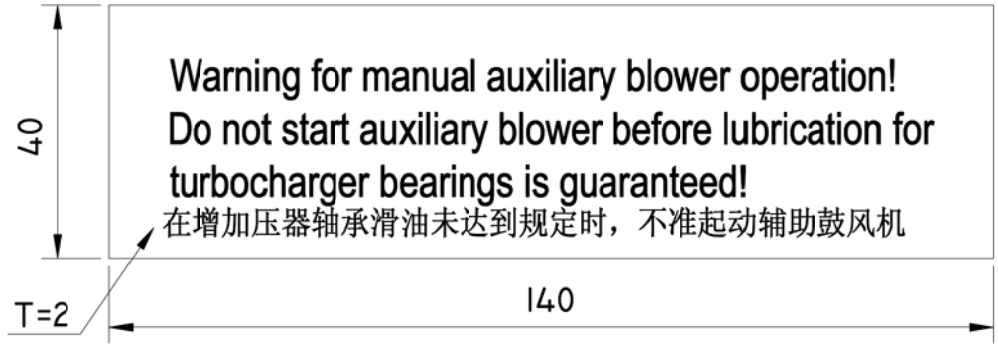
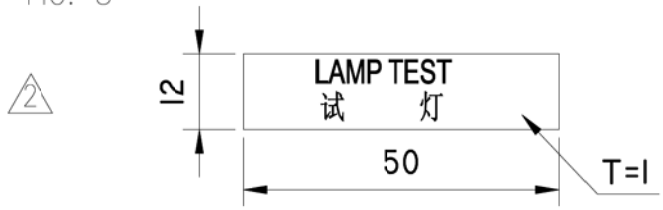


FIG. 3



WARNING & NAME PLATE LIST

NP	DESCRIPTION	LETTERING COLOR	OUTLINE (FIG.)	REMARKE
1	AUX.BLOWER No.1 1#鼓风机起动器	BLACK	1(A)	
2	AUX.BLOWER No.2 2#鼓风机起动器	BLACK	1(B)	
3	POWER ON 电源	BLACK	3	
4	HEATER ON 加热	BLACK	3	
5	RUN 运行	BLACK	3	
6	OVERLOAD 超负荷	BLACK	3	
7	LAMP TEST 试灯	BLACK	3	
8	LOCAL-REMOTE 本地 遥控	BLACK	3	
9	STOP 停止	BLACK	3	
10	START 起动	BLACK	3	
11	(WARNING PLATE)	RED	2	
12	(BOND)	BLACK	(as factory standard)	

Material: brass

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: -

DRAWING TITLE: NAME & WARNING PLATE

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

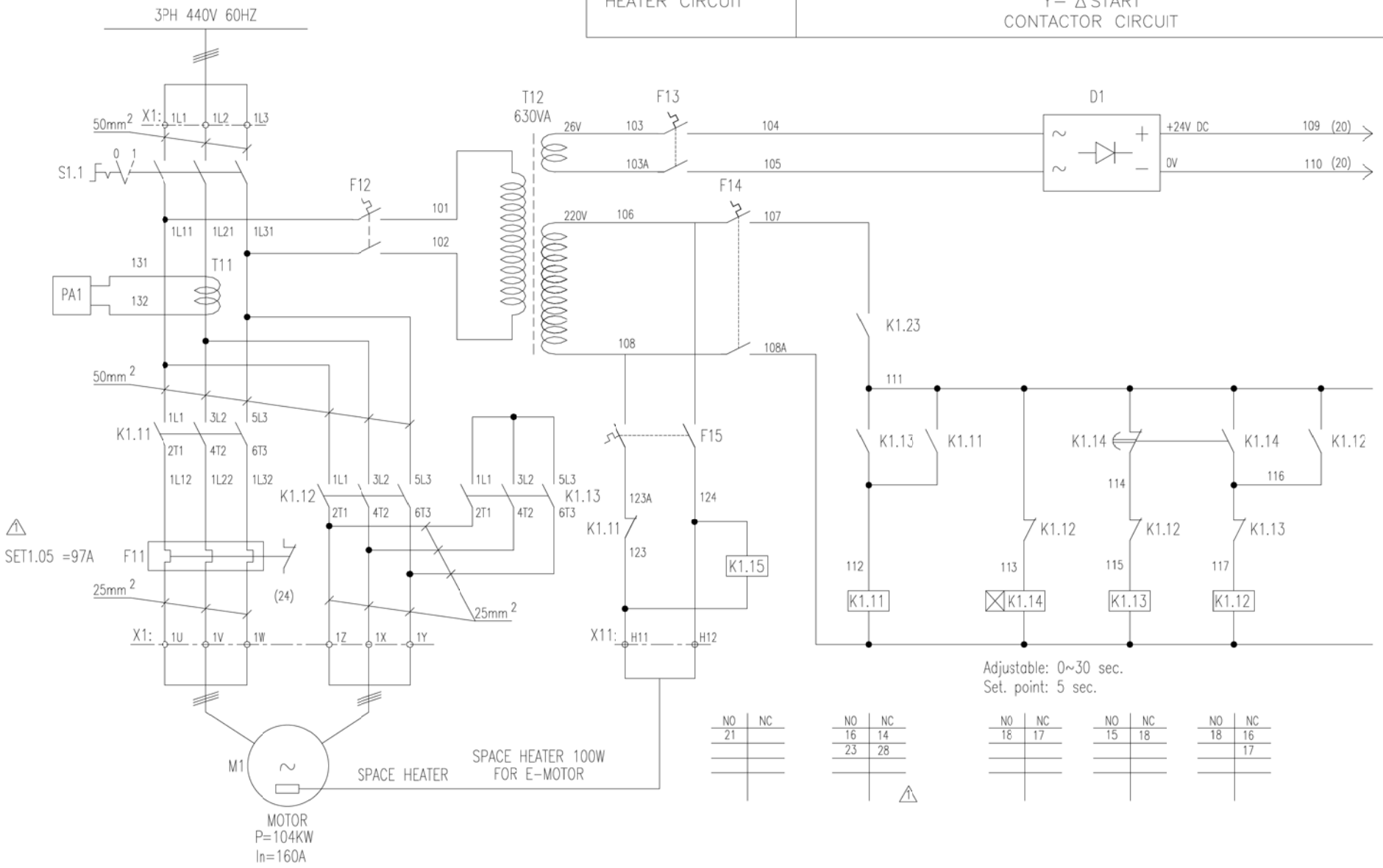
DRAWING NO.: B-121104-02-03 REV.: 2

SCALE: NTS SIZE: A4 01 OF 01

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

HEATER CIRCUIT

Y– Δ START
CONTACTOR CIRCUIT



NO	NC
21	

NO	NC
16	14
23	28

NO	NC
18	17

NO	NC
15	18

NO	NC
18	16
	17

REV.	DATE	DESCRIPTION	BY	APPROVED BY
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CND

JOB NO.: CE0290

HULL NO.: DEC14

MFG NO.:

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.1)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: B-121104-03-01

REV.: 1

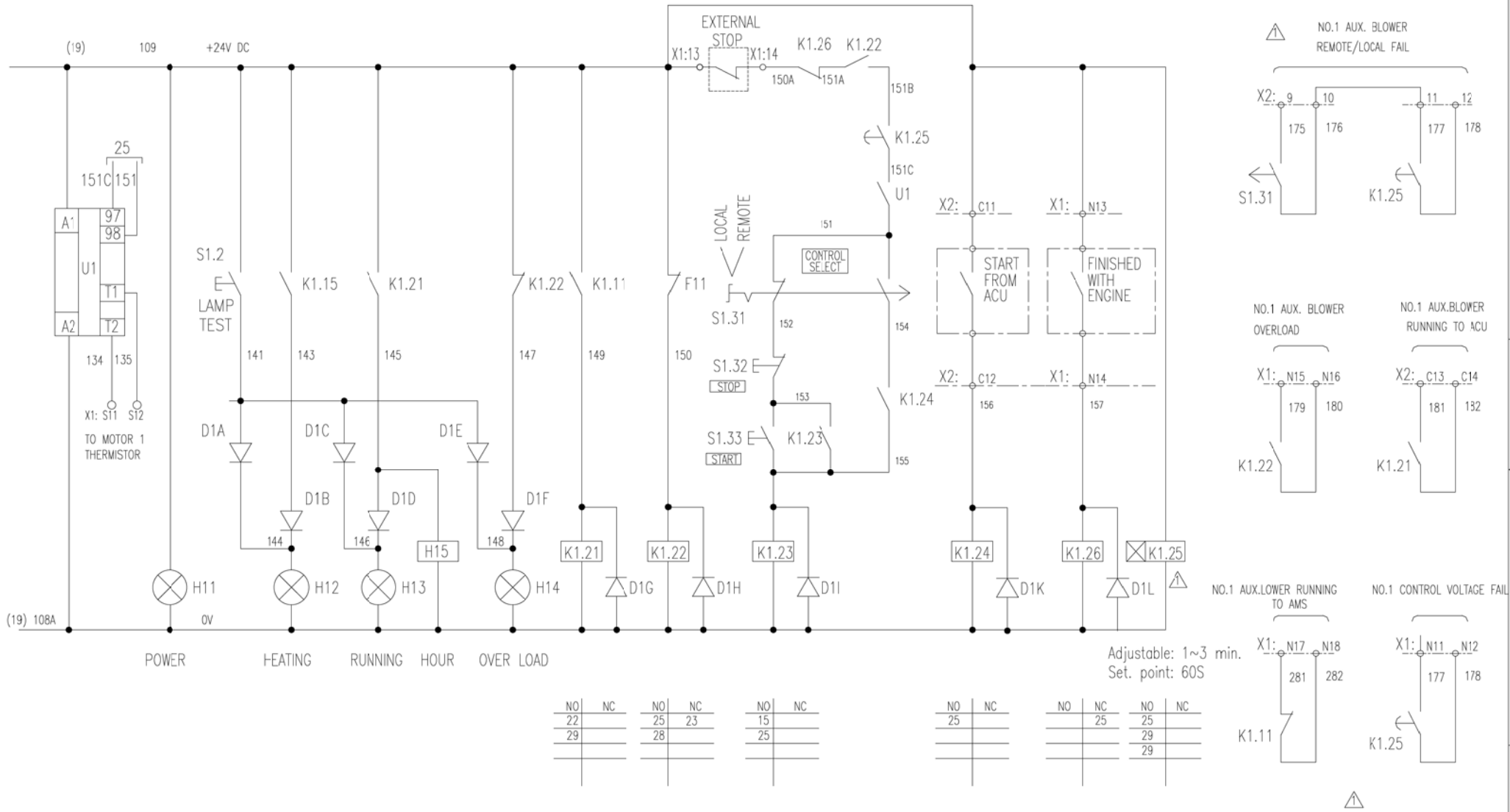
SCALE: NTS

SIZE: A4

01 OF 05

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

INDICATOR LAMP	RUNNING	OVER LOAD	LOCAL–REMOTE SELECT	REMOTE	FINISHED WITH ENGINE	SOURCE	OUTPUT



REV.	DATE	DESCRIPTION	BY	APPROVED BY
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.:

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.1)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: B-121104-03-02

REV.: 1

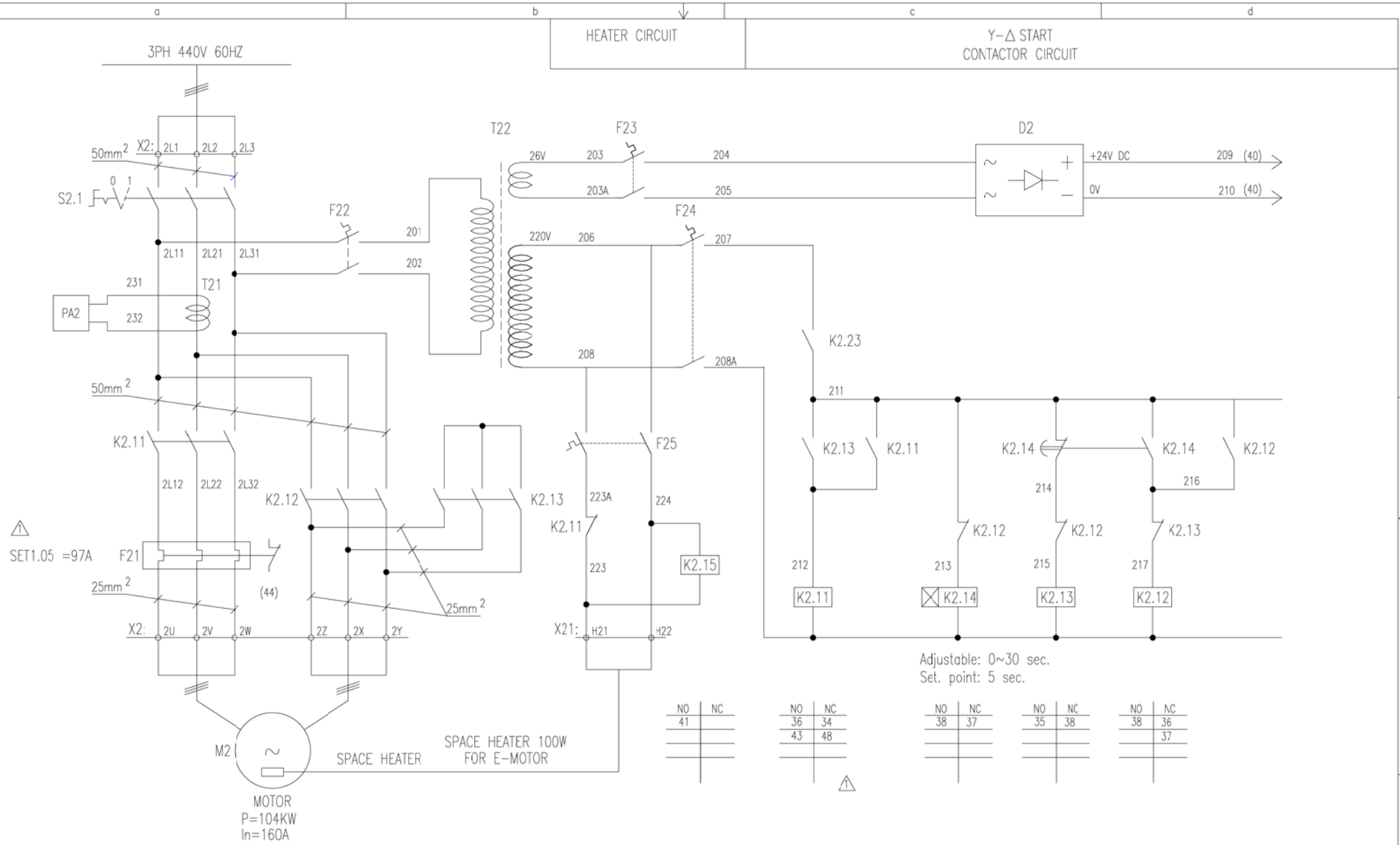
SCALE: NTS

SIZE: A4

02 OF 05

BOND INSTRUMENTATION

BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



REV.	DATE	DESCRIPTION	BY	APPRCVED BY
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.:

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.2)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: B-121104-03-03

REV.: 1

SCALE: NTS

SIZE: A4

03 OF 05

BOND INSTRUMENTATION
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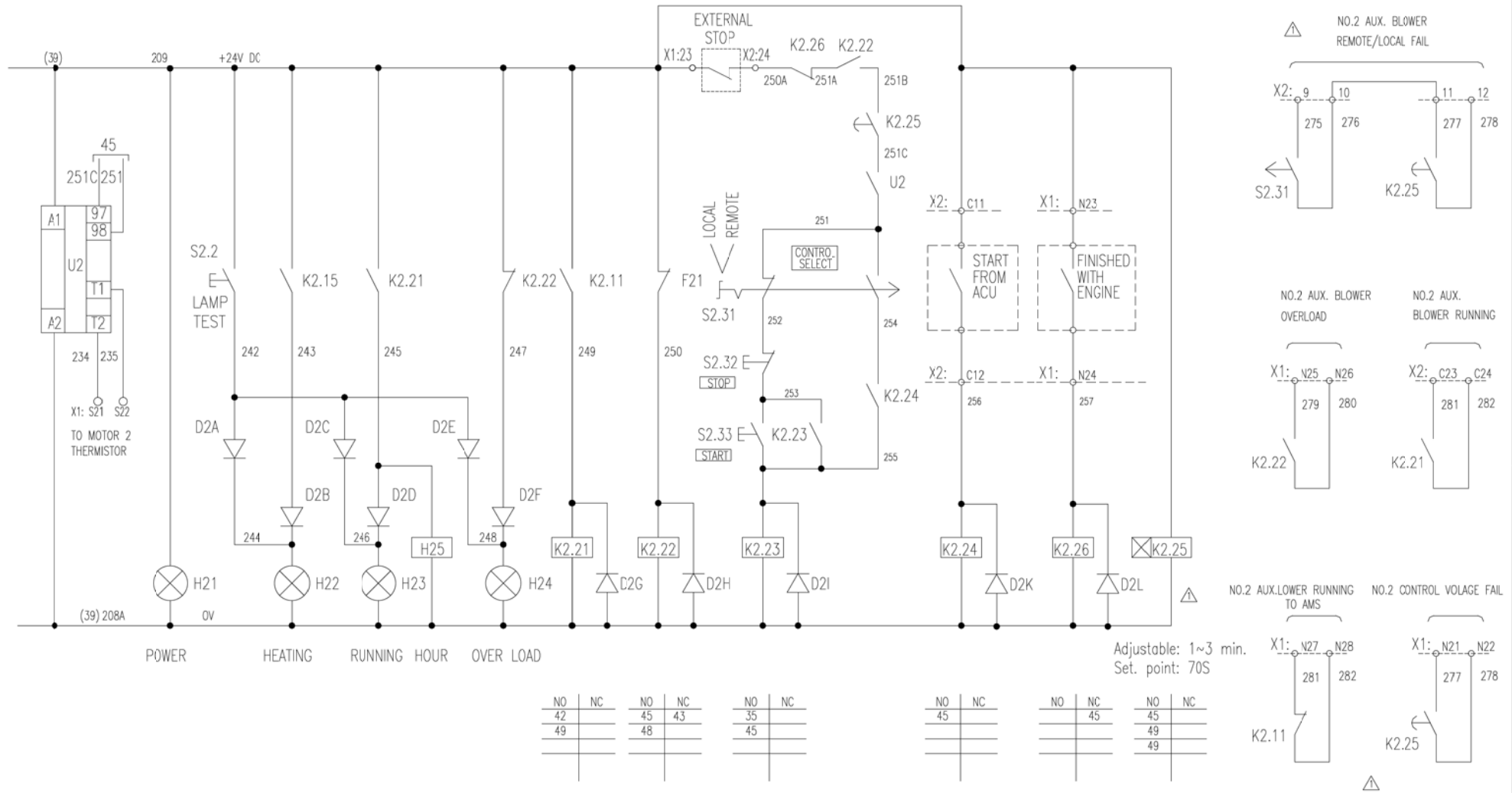
E-mail: bondwu@china.com

INDICATOR LAMP	RUNNING	OVER LOAD	LOCAL–REMOTE SELECT	REMOTE	FINISHED WITH ENGINE	SOURCE	OUTPUT



REV.	DATE	DESCRIPTION	BY	APPROVED BY
1	23 Apr 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.:

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (AUX. BLOWER NO.2)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

		DATE
DESIGNED BY	GOH	02 Nov. 2012
DRAWN BY	GOH	04 Nov. 2012
CHECKED BY	JAMES	06 Nov. 2012
APPROVED BY	LIM	08 Nov. 2012

DRAWING NO.: B-121104-03-04

REV.: 1

SCALE: NTS

SIZE: A4

04 OF 05

BOND INSTRUMENTATION

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Tel: 65-8614279 Fax: 65-8624062
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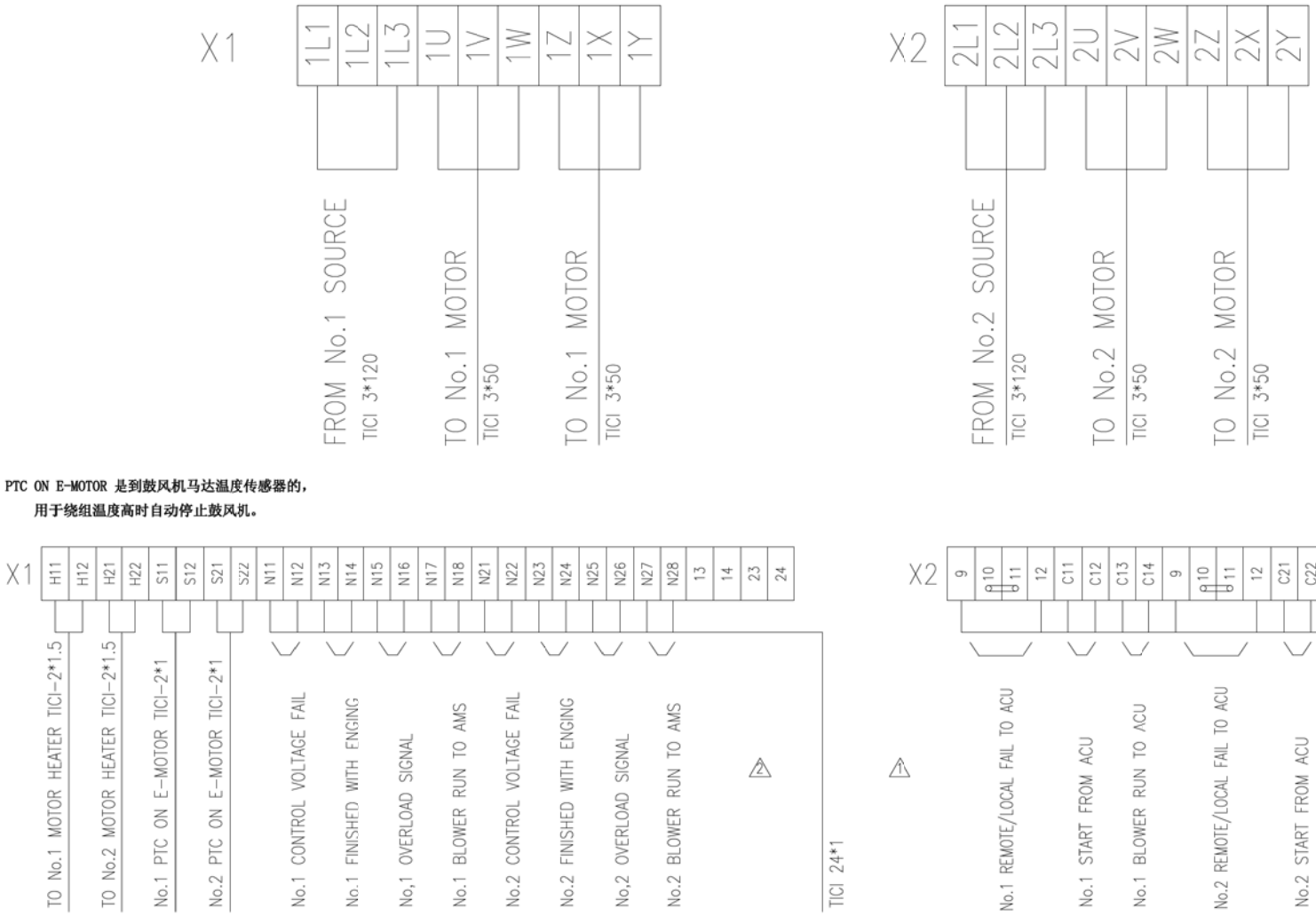

PTC ON E-MOTOR 是到鼓风机马达温度传感器的，
用于绕组温度高时自动停止鼓风机。

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
1	15 July 2013	FOR APPROVAL		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.:

DRAWING TITLE: TERMINAL ARRANGEMENT

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 AUX.-BLOWER STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: B-121104-03-05 REV.: 2

SCALE: NTS SIZE: A4 05 OF 05

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

文 件 说 明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W 7S80ME-C MK9.2
31-109: STARTER FOR TURNING GEAR	台 份 Set No.	3#
	工程编号 Engine No.	CE0290T
	船 厂 Shipyard	DACKS
	船 号 Hull No.	DE014
	船级社 Classification Society	LR+CCS

STARTER FOR TURNING GEAR

盘车机起动器

	5
Page 3 & Page 9(maker) updated	4
Drawing updated	3
Drawing updated, motor changed to 11kW, add weight of control box, and LED lightling	2
Drawing updated	1

修 改 说 明
Corrected Description

						5
杨钟伟2014-01-07	刘欣2014-01-07	焦雷2014-01-07				4
杨钟伟2013-10-12	刘欣2013-10-12	焦雷2013-10-12				3
杨钟伟2013-07-10	刘欣2013-07-10	焦雷2013-07-10				2
杨钟伟2013-06-07	刘欣2013-06-07	焦雷2013-06-07				1
杨钟伟2012-11-16	刘欣2012-11-16	焦雷2012-11-16				0
编 制 Compiled	校 对 Checked	审 核 Confirmed	审 定 Approved	会 签 Countersigned	批 准 Authorized	版本号 C.No.
被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页数 Pages 1	总页数 Total Pages	9

上海中船三井造船柴油机有限公司 CSSC-MES Diesel Co., Ltd.	文件编号 Document No.	D6513372-7.

OWNER	:	-
CUSTOMER	:	CSSC-MES DIESEL CO., LTD
SHIPYARD	:	DACKS
PROJECT	:	MAN B&W 7S80ME-C ENGINE TURNING GEAR STARTER PANEL
HULL No.	:	DE014
ENGINE No.	:	CE0290(#3)
CLASS	:	
MFG No.	:	-
DRAW. No.		T-121104-00 REV 2

BOND Instrumentation(S) Pte Ltd

No.	DRAWING No.	P. No.	DRAWING TITLE	REV.
1	T-121104-00	01	T-COVER	0
2	T-121104-01	01	DRAWING LIST	2
3	T-121104-02	01	PANEL LAYOUT DRAWING	0
4	T-121104-02	02	MOUNTING PANEL LAYOUT DRAWING	0
5	T-121104-02	03	SOCKET 2 LAYOUT DRAWING	0
6	T-121104-03	01	STARTER CIRCUIT DIAGRAM (TURNNING GEAR)	0
7	T-121104-04	01	TERMINAL ARRANGEMENT	0
8	T-121104-05	01	MATERIAL LIST	0
9	T-121104-05	02	SPARE LIST	2

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: –

DRAWING TITLE: DRAWING LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: T-121104-01

REV.: 2

SCALE: NTS

SIZE: A4

01 OF 01

BOND INSTRUMENTATION

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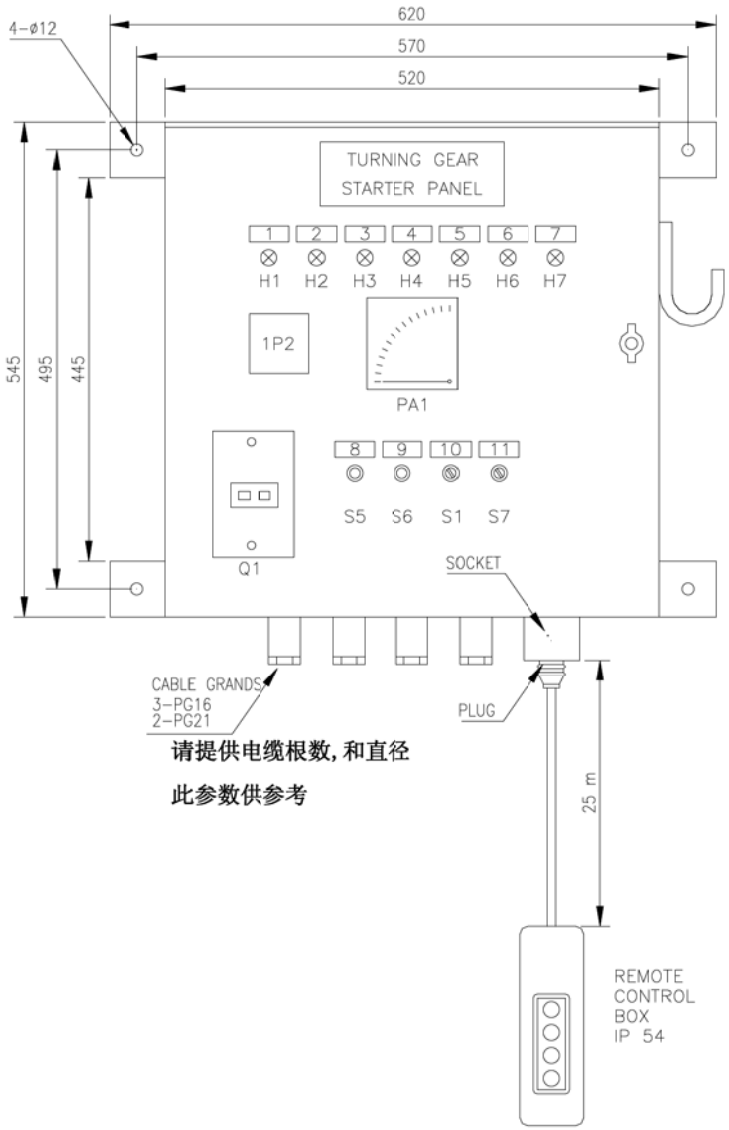
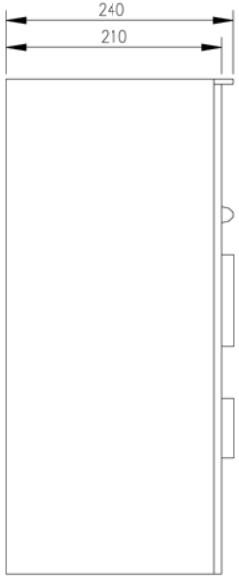
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com





CABINET	
PROTECTION	IP 44
COLOUR	MUNSELL 7.5BG7/2
WEIGHT	21 KG
SUPPLY VOLTAGE	3 X 440 V/60 HZ PILOTVOLTAGE 24 VAC
MOTOR	11 KW I =19A
SPACE HEATER	50W AC220V 60HZ
WEIGHT	30KG

NP	DESCRIPTION
1	OVER-LOAD 超负荷
2	POWER 电源
3	AHEAD 正转
4	ASTERN 反转
5	LOCAL BOX CTRL 本地控制
6	REMOTE BOX CTRL 遥控控制
7	HEAING 加热
8	AHEAD 正转
9	ASTERN 反转
10	LOCAL-REMOTE 本地 遥控
11	OFF HEATER ON 断 加热 通

REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: -

DRAWING TITLE: PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: T-121104-02 REV.: 0

SCALE: NTS SIZE: A4 01 OF 03

BOND INSTRUMENTATION

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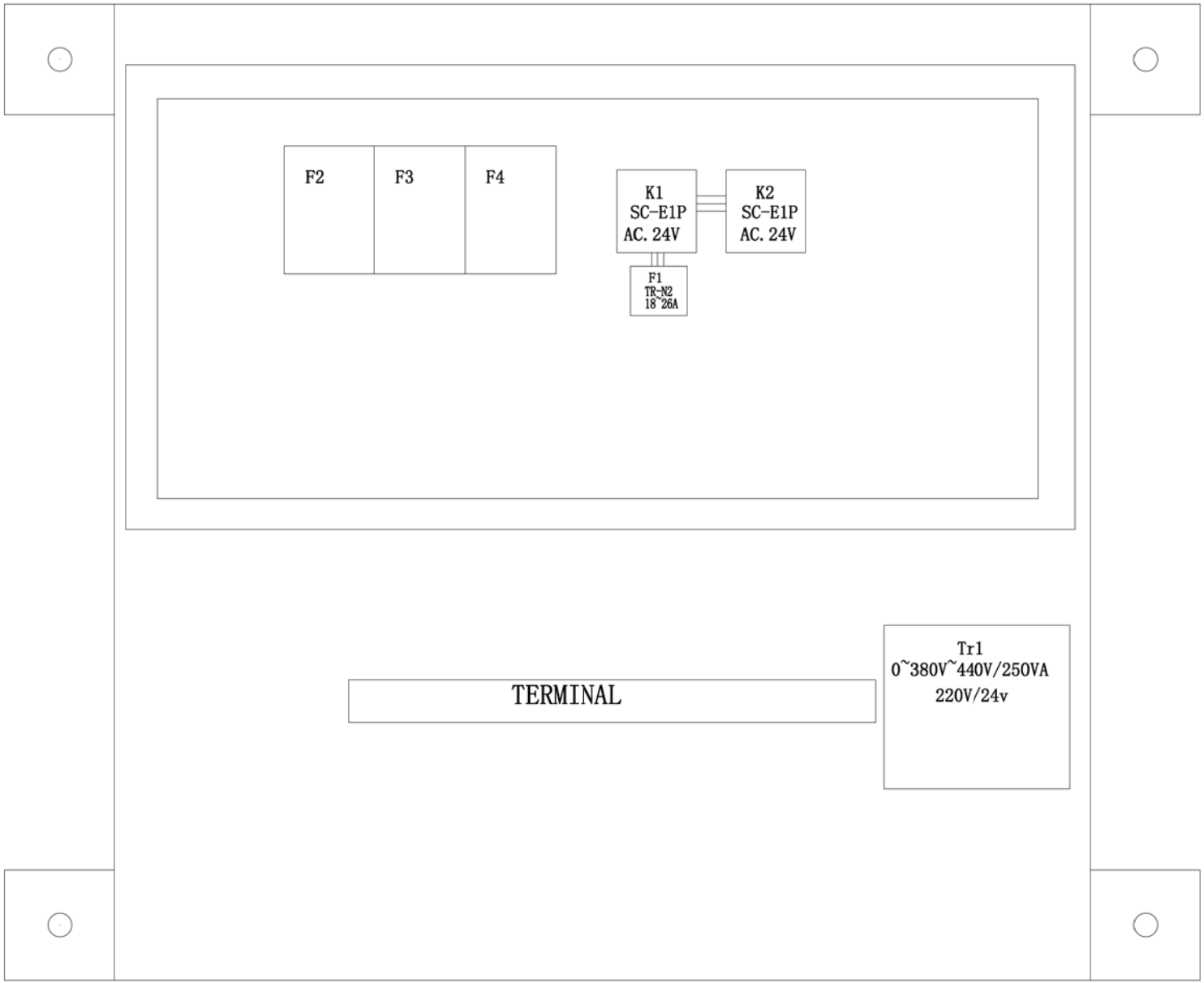
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: –

DRAWING TITLE: MOUNTING PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: T-121104-02

REV.: 0

SCALE: NTS

SIZE: A4

02 OF 03

BOND INSTRUMENTATION

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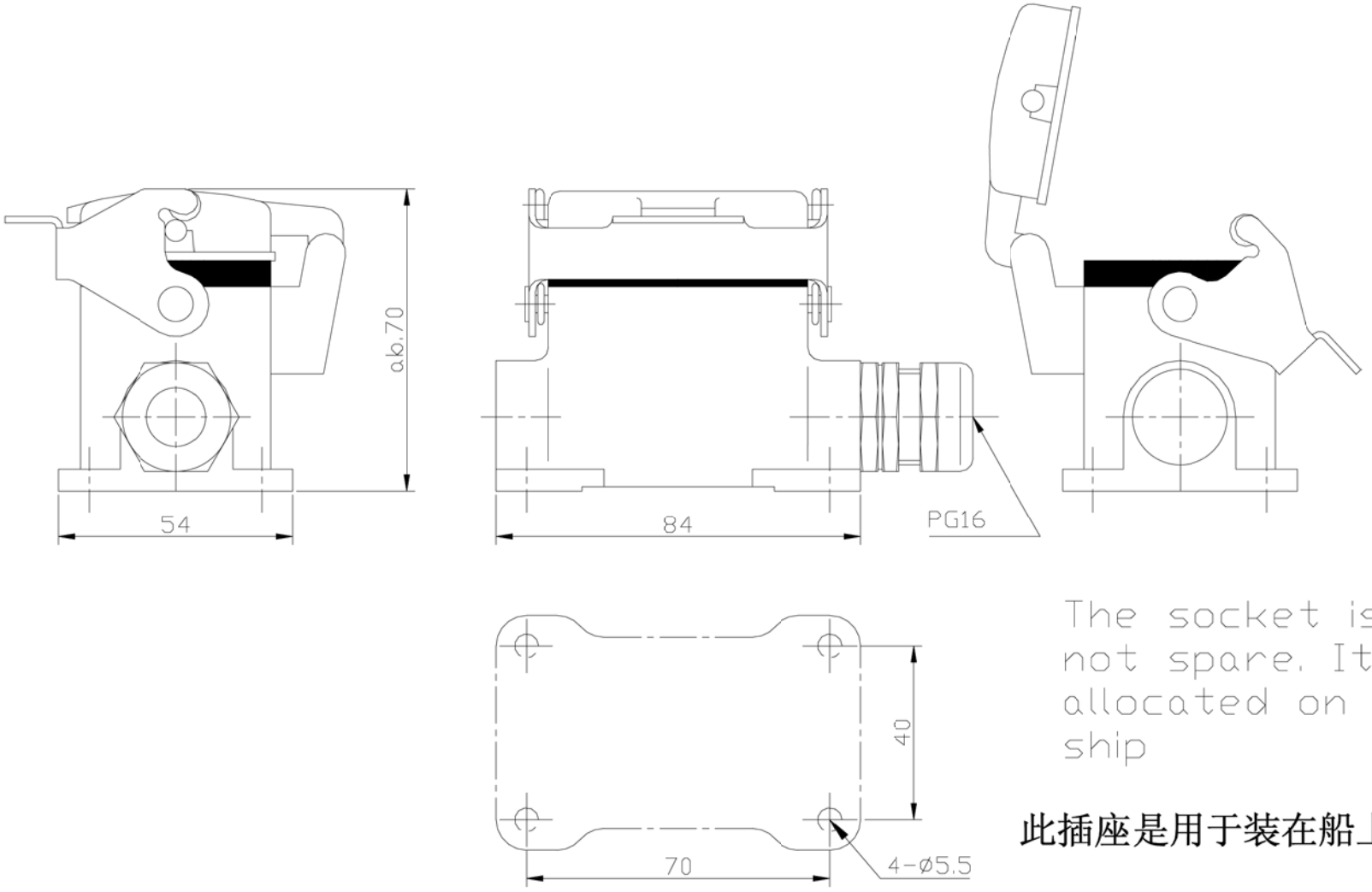
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



The socket is not spare. It is allocated on the ship

此插座是用于装在船上，不是备品！

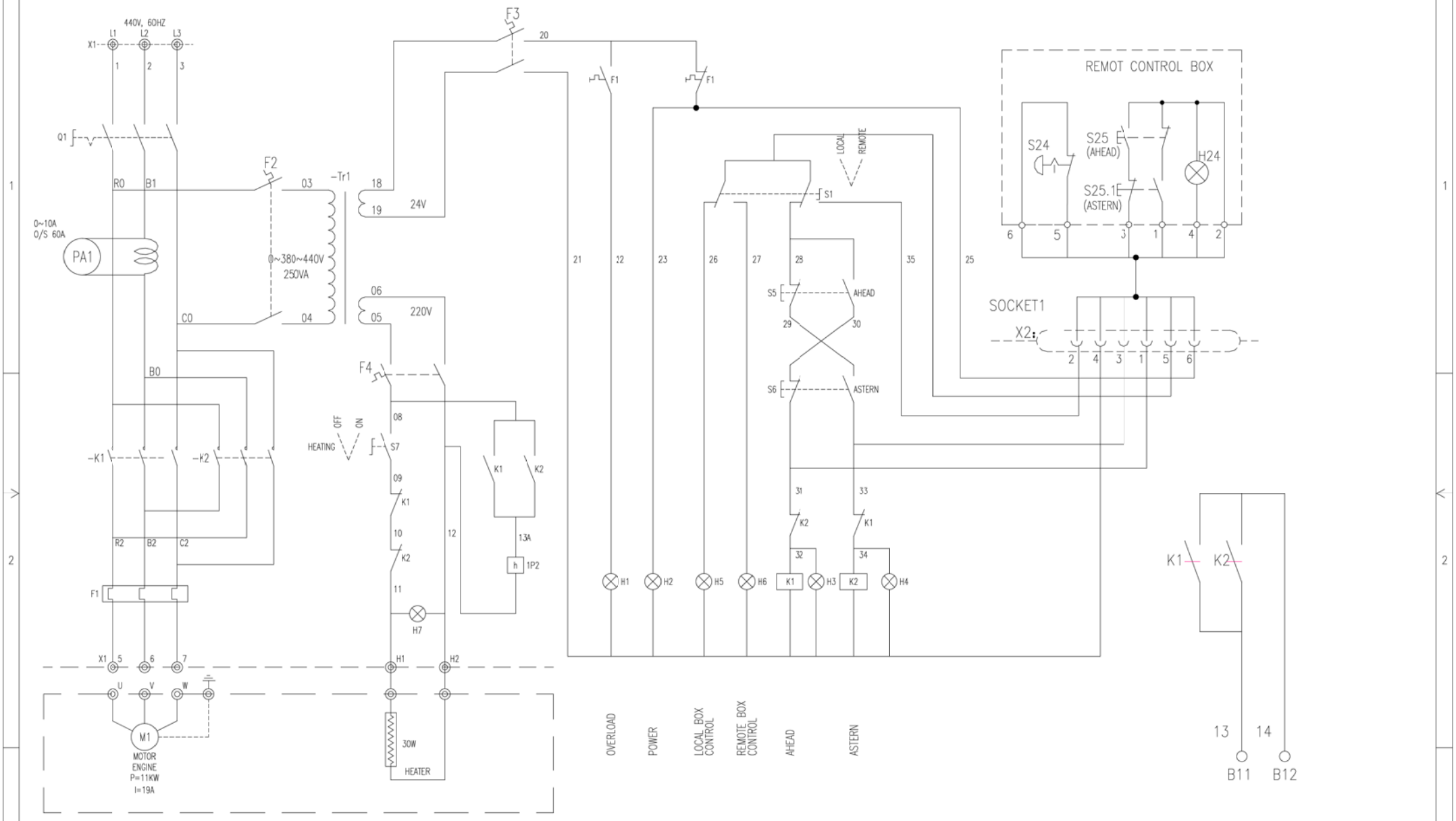
REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER	
CUSTOMER	CMD
JOB NO.	CE0290
HULL NO.	)E014
MFG NO.	-

DRAWING TITLE	SOCKET 2 LAYOUT DRAWING		
PROJECT NAME	MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL		
DESIGNED BY	GOH	DATE	02 Nov. 2012
DRAWN BY	GOH	DATE	04 Nov. 2012
CHECKED BY	JAMES	DATE	06 Nov. 2012
APPROVED BY	LIM	DATE	08 Nov. 2012
DRAWING NO.	T-121104-02	REV.	0
SCALE	NTS	SIZE	A4
			03 OF 03

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



ISSUE HISTORY				
REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

OWNER			
CUSTOMER	CMD	JOB NO.	CE0290
HULL NO.	DE014	MFG NO.	-

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (TURNNING GEAR)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY	GOH	DATE	02 Nov. 2012
DRAWN BY	GOH	DATE	04 Nov. 2012
CHECKED BY	JAMES	DATE	06 Nov. 2012
APPROVED BY	LIM	DATE	08 Nov. 2012

DRAWING NO.	T-121104-03	REV.	0
SCALE	NTS	SIZE	A4
			01 OF 0'

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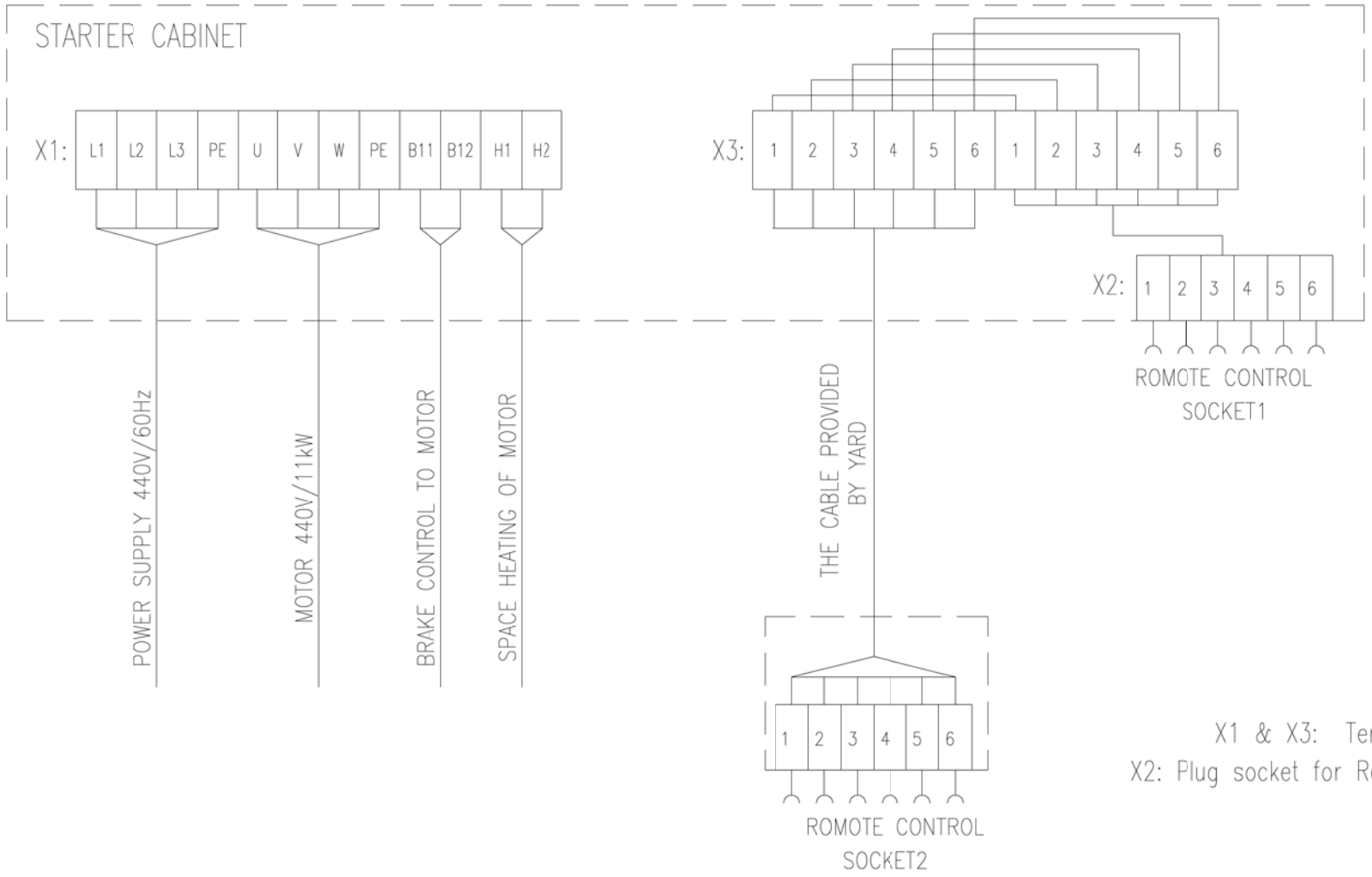
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER	
CUSTOMER: CMD	JOB NO.: CE0290
HULL NO.: DE014	MFG NO.: –

DRAWING TITLE	TERMINAL ARRANGEMENT
PROJECT NAME	MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: T-121104-04		REV.: 0
SCALE: NTS	SIZE: A4	01 OF 01

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

MATERIAL LIST

No.	POS. NR	PCS	DESCRIPTION	PART NR	MAKER
01	F2	1	BREAKER	C60N-2P D4	Schneider
02	F3	1	BREAKER	C60N-2P C4	Schneider
03	F4	1	BREAKER	C60N-2P C4	Schneider
04	H1	1	INDICATING LIGHT	XB2-BVB4LC LED AC24V RED	Schneider
05	H2	1	INDICATING LIGHT	XB2-BVB1LC LED AC24V CLEAR	Schneider
06	H3	1	INDICATING LIGHT	XB2-BVB3LC LED AC24V GREEN	Schneider
07	H4	1	INDICATING LIGHT	XB2-BVB3LC LED AC24V GREEN	Schneider
08	H5	1	INDICATING LIGHT	XB2-BVB5LC LED AC24V YELLOW	Schneider
09	H6	1	INDICATING LIGHT	XB2-BVB5LC LED AC24V YELLOW	Schneider
10	H7	1	INDICATING LIGHT	XB2-BVM6LC LED AC220V BLUE	Schneider
11	S5	1	PUSH BUTTON	ZB2-BA3C ø22mm GREEN	Schneider
12	S5	1	CONTACT ELEMENT	ZB2-BZ105C 1NO+1NC	Schneider
13	S6	1	PUSH BUTTON	ZB2-BA3C ø22mm GREEN	Schneider
14	S6	1	CONTACT ELEMENT	ZB2-BZ105C 1NO+1NC	Schneider
15	S1	1	SWITCH HEAD 1-2	XB2 BD24C ø22mm 2NO	Schneider
16	S1	1	CONTACT ELEMENT	ZB2-BE101C 1NO	Schneider
17	S1	1	CONTACT ELEMENT	ZB2-BE102C 1NC	Schneider
18	S7	1	SWITCH ELEMENT	ZB2 BD25C ø22mm 1NO+1NC	Schneider
19	Q1	1	HAND OPERATED MOTOR STARTER	GV2-ME22C 22~25A	Schneider
20	Q1	1	ROTARY HANDLE	GV2-AP02	Schneider
21	K1,K2	2	CONTACTOR	SC-E1P/3 AC24V	FUJI
22	K1,K2	2	AUX. CONTACT	SZ-A22	FUJI
23	F1	1	THERMAC RELAY	TR-N2/3 18~26A	FUJI
24	Tr1	1	TRANSFORMER	JBK3-250TH 0~380~440V/220V (150VA) 24V (100VA)	RED FLAG
25	1P2	1	HOUR RUN METER	891-206 AC 220V 60Hz	HENGSTLER
26	X1 X2 X4	19	TERMINAL BLOCK	DTB-R15-600V	DAE YANG
27	1P1	1	SPRING CLAMPING PIECE	F96-A 0~25A O/S 150A	YITAI
28		2	SOCKET	C146 10F C060031	AMPHENOL
29		2	CABLE GLAND	PG 21	
30		2	CABLE GLAND	PG 16	
31	T2	1	CURRENT TRANSFORMER	ALH-0.66 25/5A 30 II	SIEMENS
32					
33					
34					

MATERIAL LIST FOR REMOTE CONTROL

No.	POS. NR	PCS	DESCRIPTION	PART NR	MAKER
01		1	LABEL	MERGENEY STOP	Schneider
02		1	LABEL	AHEAD	Schneider
03		1	LABEL	ASTERN	Schneider
04		1	LABEL	POWER	Schneider
05		1	REMOTE CONTROL BOX	XAC-A04	Schneider
06		1	BLIND FITTING	ZB2-SZ3(FOR ø22mm HOLE)	Schneider
07		1	CABLE 25 METERS	CEFR/DA 7*1	TENG CANG
08	S24	1	BUTTON 0-1	ZB2-BS54C	Schneider
09	S24	1	CONTACT ELEMENT	ZB2-BE101C 1NC	Schneider
10	S25	1	PUSH BOTTON	ZA2-BA2 ø22mm	Schneider
11	S25	1	CONTACT ELEMENT	ZB2-BE101C 1NC	Schneider
12	S25	1	CONTACT ELEMENT	ZB2-BE102C 1NC	Schneider
13	S26	1	PUSH BUTTON	ZA2-BA2 ø22mm	Schneider
14	S26	1	CONTACT ELEMENT	ZB2-BE101C 1NC	Schneider
15	S26	1	CONTACT ELEMENT	ZB2-BE102C 1NC	Schneider
16	H24	1	BULB	DLICE024 AC24V	

REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290

HULL NO.: DE014

MFG NO.: -

DRAWING TITLE: MATERIAL LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: T-121104-05

REV.: 0

SCALE: NTS

SIZE: A4

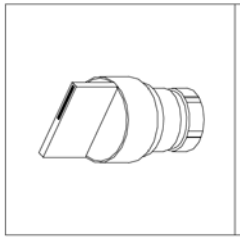
01 OF 02

BOND INSTRUMENTATION

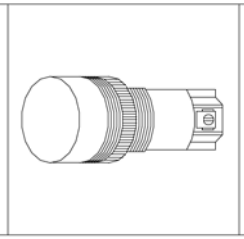
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

SPARE LIST

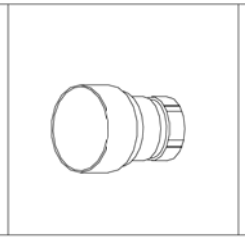
No.	POS. NR	PCS	DESCRIPTION	PART NR	MAKER
01	SPARE	1	SWITCH HEAD 1-2 转换开关	ZB2 BD2C ø22mm	Schneder
02	SPARE	1	INDICATING LIGHT 指示灯 绿	XB2 BVB3LC LED AC24V GREEN	Schneder
03	SPARE	1	INDICATING LIGHT 指示灯 红	XB2 BVB4LC LED AC24V RED	Schneder
04	SPARE	1	INDICATING LIGHT 指示灯 黄	XB2 BVB5LC LED AC24V YELLOW	Schneder
05	SPARE	1	INDICATING LIGHT 指示灯 兰	XB2 BVM6LC LED AC220V BLUE	Schneder
06	SPARE	1	INDICATING LIGHT 按纽头 绿	ZB2 BA3C ø22mm GREEN	Schneder
07	SPARE	1	CONTACT ELEMENT 辅触点 常开	ZB2 BE101C 1NO	Schneder
08	SPARE	1	CONTACT ELEMENT 辅触点 常闭	ZB2 BE102C 1NC	Schneder
09	SPARE	1	THERMAL RELAY 热继电器	TR-N2/3 18~26A	FUJI
10	SPARE	1	BREAKER 小型断路器	C60N-2P D4	Schneder
11	SPARE	1	BUTTON 0-1 转换开关	ZA2 BD2 ø22mm	Schneder
12	SPARE	1	PUSH BUTTON 按纽头 黑	ZA2 BA2 ø22mm	Schneder
13	SPARE	1	TRANSFORMER	JBK3-250TH 0~380~440V/220V (150VA) 24V (100VA)	RED FLAG



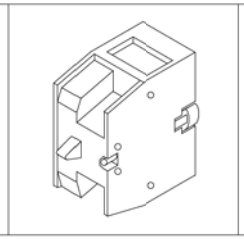
No.1,11 SWITCH HEAD 1-2
ZB2 BD2C ø22mm



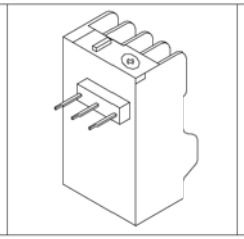
No.2~5 INDICATING LIGHT
XB2 BVB*C LED



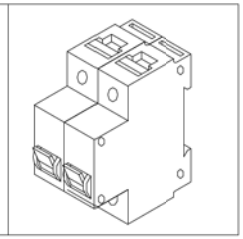
No.6,12 PUSH BUTTON
ZB2 BA*C ø22mm



No.7~8 CONTACT ELEMENT
ZB2 BE10*C



No.9 THERMAL RELAY
TR-N2/3 18~26A



No.10 BREAKER
C60N-2P D4

REV.	DATE	DESCRIPTION	BY	APPROVED BY
2	16 Aug 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER		DRAWING TITLE: SPARE LIST	DESIGNED BY: GOH — DATE: 02 Nov. 2012
CUSTOMER: CMD	JOB NO.: CE0290		DRAWN BY: GOH — DATE: 04 Nov. 2012
HULL NO.: CE014	MFG NO.: -	PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 TURNING GEAR STARTER PANEL	CHECKED BY: JAMES — DATE: 06 Nov. 2012
			APPROVED BY: LIM — DATE: 08 Nov. 2012

DRAWING NO.: T-121104-05 — REV.: 2
SCALE: NTS — SIZE: A4 — 02 OF 02

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

OWNER	:	-
CUSTOMER	:	CSSC-MES DIESEL CO., LTD
SHIPYARD	:	DACKS
PROJECT	:	MAN B&W 7S80ME-C ENGINE HPS-START UP PUMPS
HULL No.	:	DE014
ENGINE No.	:	CE0290T(#3)
CLASS	:	-
MFG No.	:	S14-004
DRAW. No.		H-121104-00 REV 5

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No.	DRAWING No.	P. No.	DRAWING TITLE	REV.
1	H-121104-00-0	01	P-COVER	0
2	H-121104-01-0	01	DRAWING LIST	5
3	H-121104-02-0	01	PANEL LAYOUT DRAWING	0
4	H-121104-02-1	01	PANEL LAYOUT DRAWING	0
5	H-121104-03-0	01	NAME & WARNING PLATE	0
6	H-121104-04-0	01	CABLE DRAWING	0
7	H-121104-05-0	01	STARTER CIRCUIT DIAGRAM	5
8	H-121104-05-1	01	STARTER CIRCUIT DIAGRAM	5
9	H-121104-06-0	01	TERMINAL ARRANGEMENT	5
10	H-121104-06-1	01	TERMINAL ARRANGEMENT	5
11	H-121104-07-0	01	MATERIAL LIST	5
12	H-121104-08-0	01	SPARE LIST	4

REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
4	22 Jan 2014	FOR WORKING		
3	18 Nov. 2013	FOR WORKING		
2	16 Aug 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: DRAWING LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: H-121104-01-0

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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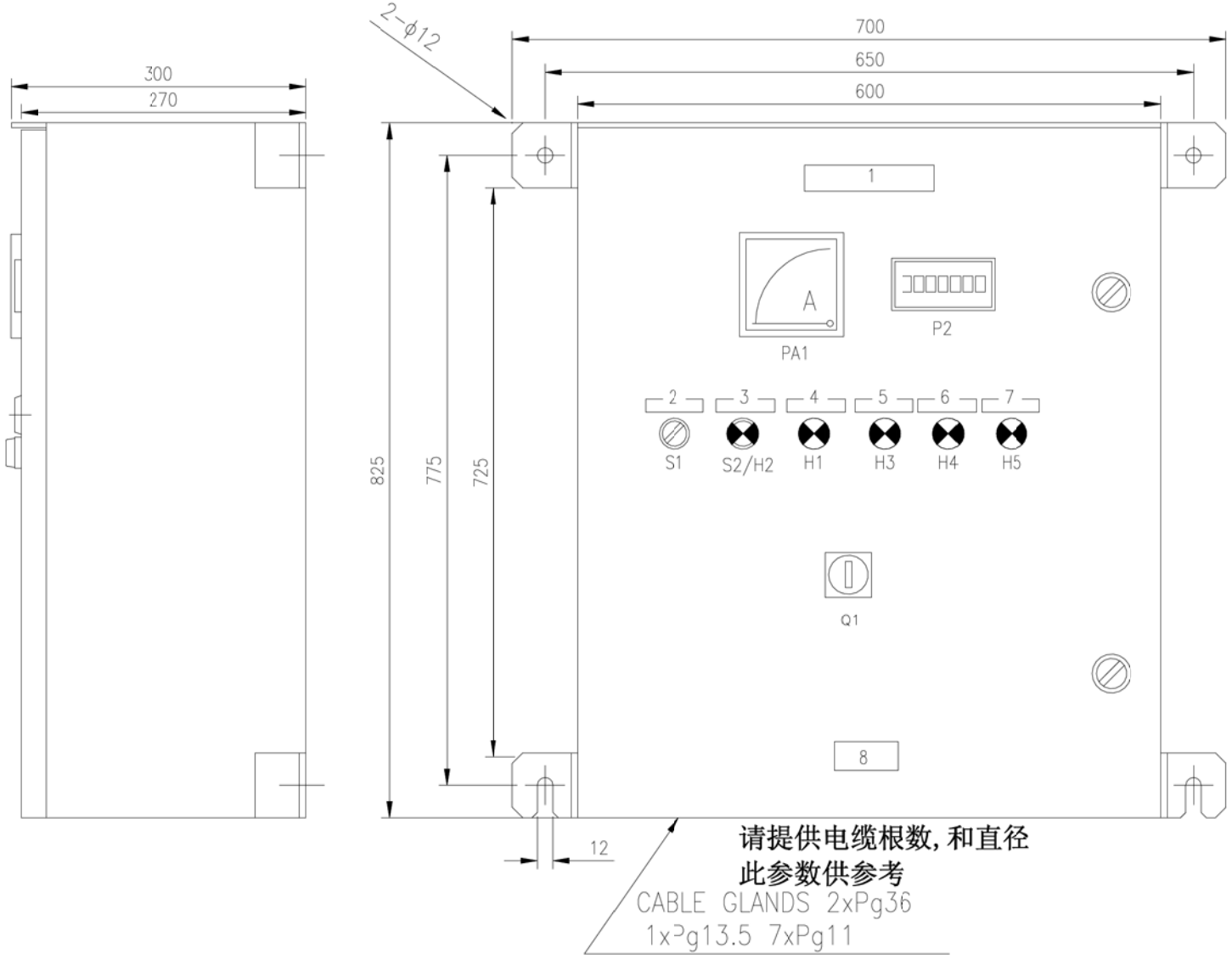

COLOUR	: MUNZELL 7.5 BG 7/2
THICKNESS	: 1.6~2.5 mm
PROTECTION	: IP 44
PAINT	: SPRAY PAINT
SUPPLY VOLTAGE	: 3 X 440 V/60Hz
	: PILOTVOLTAGE AC 24V
MOTOR	: P=25.6KW, I=42.9A
WEIGHT:	: 45KG

NAME PLATE

NP	DESCRIPTIONNP
1	HPS-START UP PUMP 1/2#
2	LOACK O REMOTE 本地 停止 遥控
3	START/RUN 起动 运行
4	POWER 电源
5	INLET PRESSURE 进口压力
6	OVER LOAD 超负荷
7	HEATING 加热
8	(BOND) 厂牌

REV.	DATE	DESCRIPTION	BY	APPROVED BY
3	18 Nov. 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-02-0

REV.: 3

SCALE: NTS

SIZE: A4

01 OF 01

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Tel: 65-8614279 Fax: 65-8624062
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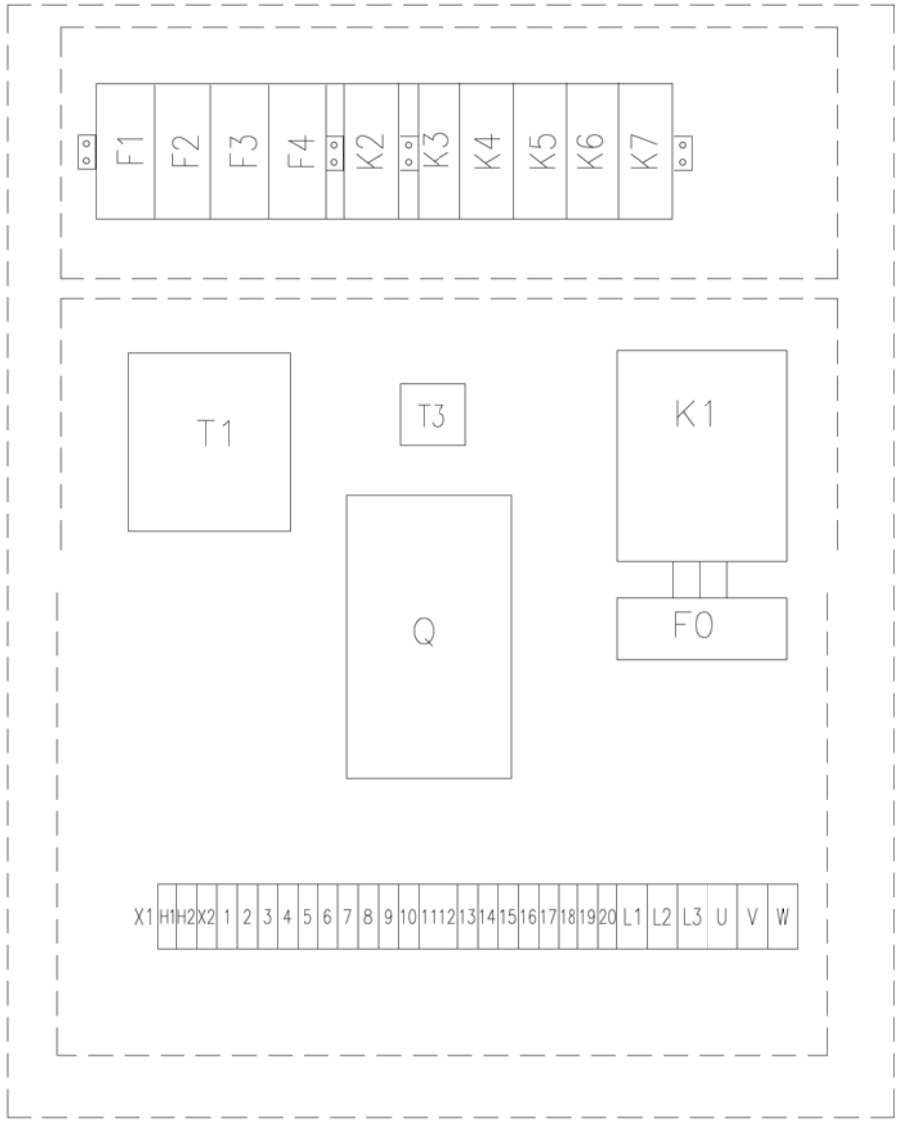

REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: PANEL LAYOUT DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-02-1

REV.: 0

SCALE: NTS

SIZE: A4

01 OF 01

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Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

NAME PLATE LIST

NP	DESCRIPTION	LETTERING COLOR	OUTLINE (FIG.)	REMARKE
1	HPS-START UP PUMP 1/2#	BLACK	2	
2	LOACK O REMOTE 本地 停止 遥控	BLACK	1	
3	START/RUN 起动 运行	BLACK	1	
4	POWER 电源	BLACK	1	
5	INLET PRESSURE 进口压力	BLACK	1	
6	OVER LOAD 超负荷	BLACK	1	
7	HEATING 加热	BLACK	1	
8	(EOND) 厂牌	BLACK	(as factory standard)	

FIG. 1

FIG. 2

Material: brass

REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD
JOB NO.: CE0290T
HULL NO.: DE014
MFG NO.: S14-004

DRAWING TITLE: NAME & WARNING PLATE
PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-03-0
REV.: 0
SCALE: NTS
SIZE: A4
01 OF 01

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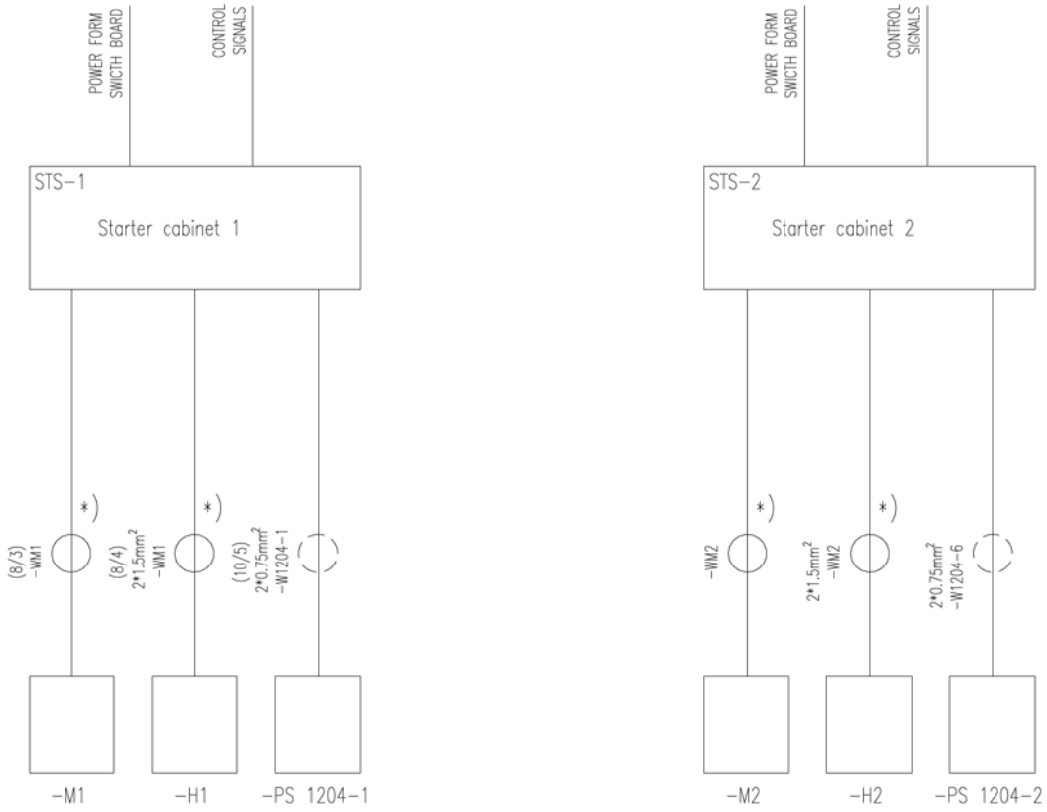
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



*) YARD SUPPLY

REV.	DATE	DESCRIPTION	BY	APPROVED BY
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: CABLE DRAWING

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-04-0

REV.: 0

SCALE: NTS

SIZE: A4

01 OF 01

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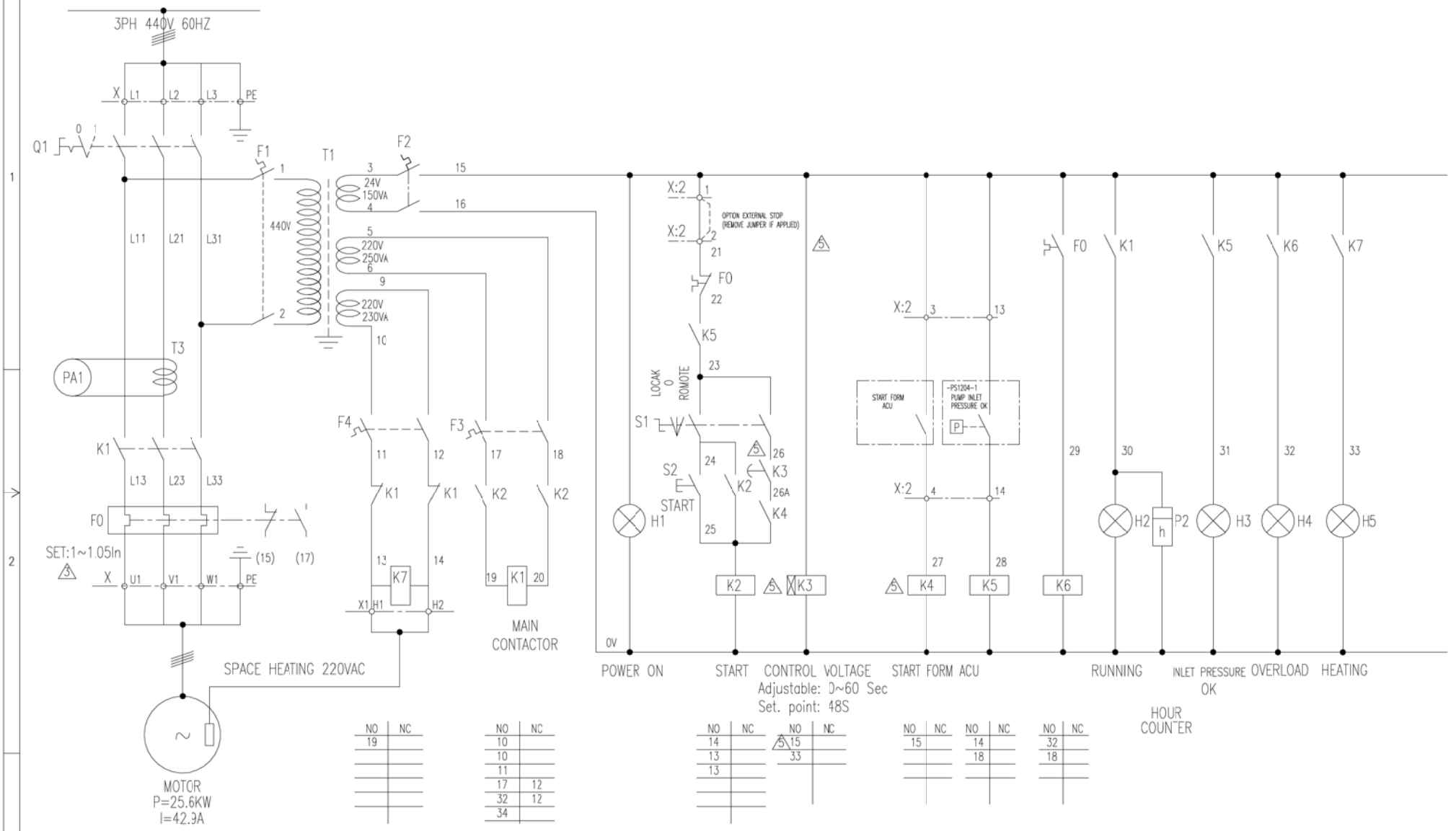

REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
3	18 Nov. 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

WFC NO.: S14-004

DRAWING TITLE: STARTER CIRCUIT DIGRAM (HPS-START UP PUMPS No.1)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-05-0

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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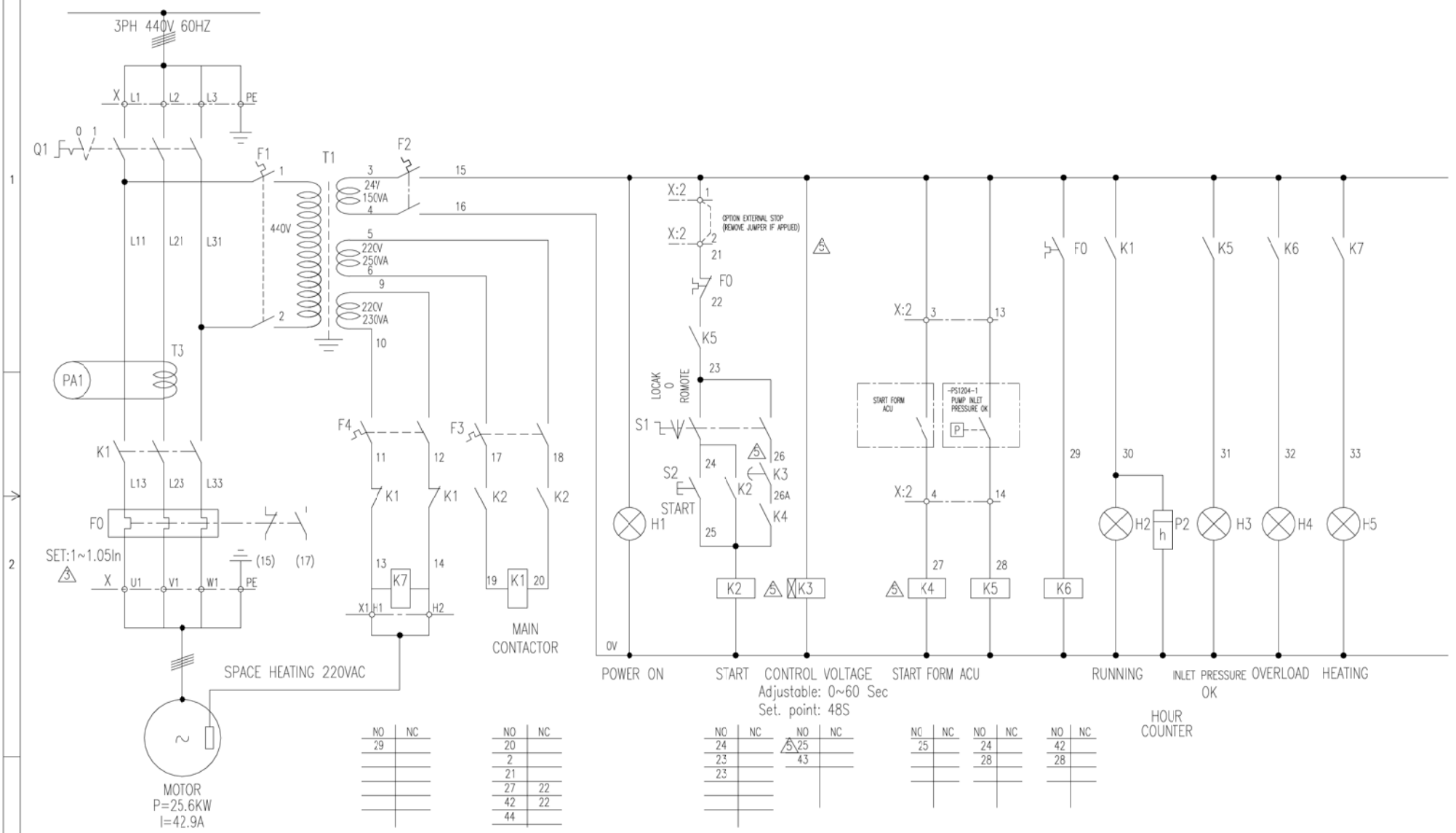

ISSUE HISTORY				
REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
4	18 Nov. 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: STARTER CIRCUIT DIAGRAM (HPS-START UP PUMPS No.2)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-05-1

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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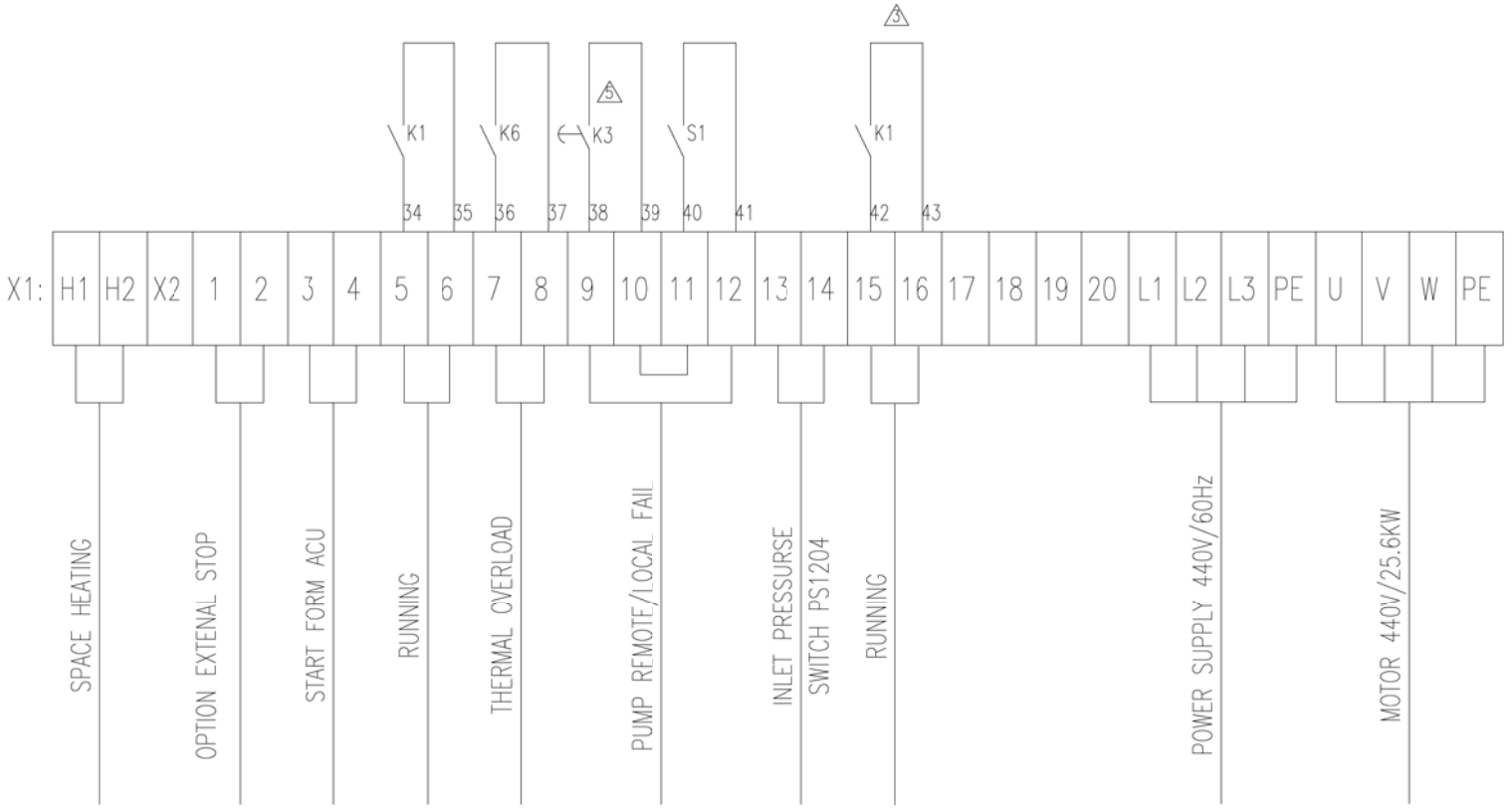

All of cables outside are supplied by Shipyard

REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
3	18 Nov. 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE029OT

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: TERMINAL ARRANGEMENT (HPS-START UP PUMPS No.1)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-06-0

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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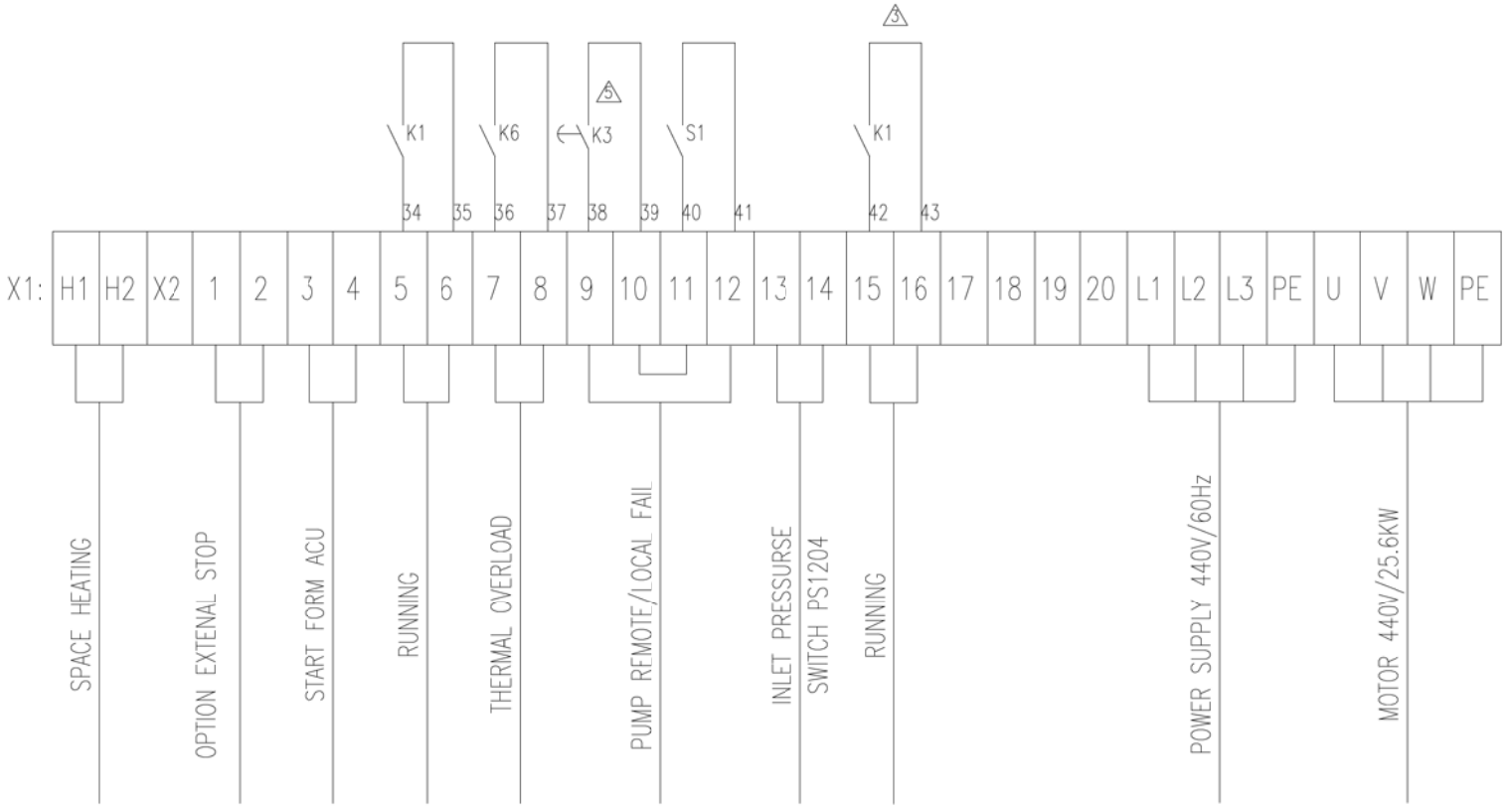
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com



All of cables outside are supplied by Shipyard

REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
3	18 Nov. 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE029OT

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: TERMINAL ARRANGEMENT (HPS-START UP PUMPS No.2)

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-06-1

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

MATERIAL LIST FOR STARTER PANEL

No.	POS. NR	PCS	DESCRIPTION	PART NR	MAKER
01	Q1	1	CIRCUIT BREAKER	NSX100N/3P+MA80	Schneider
02	Q1	1	ROTARY HANDCE	COMPACT FORNS100N 29338	Schneider
03	K1	1	CONTACTOR	SC-E3P AC220V	FUJI
04	F0	1	THERMAL RELAY	TR-N3/3 34~50A	FUJI
4	05 F1	1	BREAKER	C65N-2P D4	Schneider
4	06 F2,F3,F4	3	BREAKER	C65N-2P C4	Schneider
07	K2	1	RELAY	SH-4 AC24V	FUJI
5	08 K4,K5,K6	3	RELAY	MY2NJ AC24V	OMRON
5	09 K4,K5,K6	3	SOCKET	PYF08A-E	OMRON
5	10 K4,K5,K6	6	SPRING CLAMPING PIECE	PYC-A1	OMRON
5	11 K3	1	ON-DELAY TIMER	MT7P-2 0~60S AC24V	MIND
12	K7	1	RELAY	MY2NJ AC220V	OMRON
13	K7	1	SOCKET	PYF08A-E	OMRON
14	K7	1	SPRING CLAMPING PIECE	PYC-A1	OMRON
15	H1	1	INDICATING LIGHT	XB2-BVB1LC LED AC24V WHITE	Schneider
16	H3	1	INDICATING LIGHT	XB2-BVB3LC LED AC24V GREEN	Schneider
17	H4	1	INDICATING LIGHT	XB2-BVB4LC LED AC24V RED	Schneider
18	H5	1	INDICATING LIGHT	XB2-BVB6LC LED AC24V BLUE	Schneider
19	S1	1	SWITCH HEAD	ZB2-BD2C ø22mm	Schneider
20	S1	1	CONTACT ELEMENT	ZB2-BZ104C 2NO	Schneider
21	S2 H2	1	PUSH-BUTTON WITH LIGHT	XB2-BW33B1C 1NO AC24V	Schneider
22	P2	1	HOUR RUN METER	891-202 AC24V	HENGSTLER
23	PA1	1	AMMTER	F96 0~75A 0/S 450A	YITAI
24	T1	1	TRANSFORMER	JBK3-630VA 0~380~440/220V/250VA 220V/230VA/24V/150VA	RED FLAG
25	T3	1	CURRENT TRANSFORMER	ALH-0.66 75/5A	SIEMENS
26	X	8	TERMINAL BLOCK	100A 600V	TEND
27	X1 X2	28	TERMINAL BLOCK	DRB-R15 15A 600V	DAE YANG
28		1	PANEL	600 X 825 X 280mm (W X H X D)	
29		2	CABLE GLAND	PG36	
30		1	CABLE GLAND	PG13.5	
31		7	CABLE GLAND	PG11	
32					
33					
34					

REV.	DATE	DESCRIPTION	BY	APPROVED BY
5	14 May. 2014	FOR WORKING		
4	22 Jan 2014	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: CE014

MFG NO.: S14-004

DRAWING TITLE: MATERIAL LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY: GOH	DATE: 02 Nov. 2012	
DRAWN BY: GOH	DATE: 04 Nov. 2012	
CHECKED BY: JAMES	DATE: 06 Nov. 2012	
APPROVED BY: LIM	DATE: 08 Nov. 2012	

DRAWING NO.: H-121104-07-0

REV.: 5

SCALE: NTS

SIZE: A4

01 OF 01

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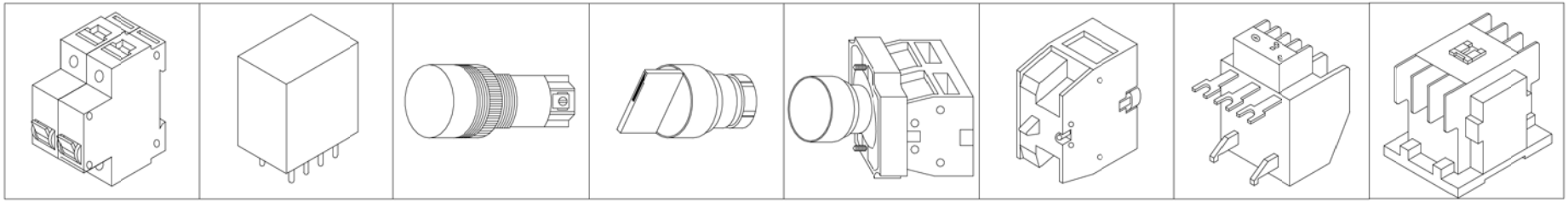
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

SPARES LIST

No.	POS. NR	PCS	DESCRIPTION	PART NR	MAKER
4 01	F1	1	BREAKER	C65N-2P D4	Schneider
02	K3,K5,K6	1	RELAY	MY2NJ AC24V	OMRON
03	K7	1	RELAY	MY2NJ AC220V	OMRON
04	H1	1	INDICATING LIGHT	XB2-BVB1LC LED AC24V WHITE	Schneider
05	H3	1	INDICATING LIGHT	XB2-BVB3LC LED AC24V GREEN	Schneider
06	H4	1	INDICATING LIGHT	XB2-BVB4LC LED AC24V RED	Schneider
07	H5	1	INDICATING LIGHT	XB2-BVB6LC LED AC24V BLUE	Schneider
08	S1	1	SWITCH HEAD 1-2	ZB2-BD2C	Schneider
09	S2 H2	1	PUSH-BUTTON WITH LIGHT	XB2-BW33B1C 1NO AC24V GREEN	Schneider
10	S1,S2	1	CONTACT	ZB2-BE101C	Schneider
11	F0	1	THERMAL RELAY	TR-N3/3 34~50A	FUJI
2 12	K1	1	CONTACTOR	SC-E3P AC220V	FUJI
2 13	T1	1	TRANSFORMER	JBK3-630VA 0~380~440/220V/250VA 220V/230VA/24V/150VA	RED FLAG



No.1 BREAKER
C65N-2P D4

No.2 ,3 RELAY
MY2NJ AC24V,AC220V

No.4~7 INDICATING LIGHT
XB2-BVB*C LED

No.8 SWTCH HEAD 1-2
ZB2 BD2C ø22mm

No.9 PUSH-BUTTON LIGHT
XB2-BW33B1C AC24V

No.10 CONTACT ELEMENT
ZB2 BE10*C

No.11 THERMAY RELAY
TR-N3/3 34~50A

No.12 CONTACTOR
SC-E3P AC220V

REV.	DATE	DESCRIPTION	BY	APPROVED BY
4	22 Jan 2014	FOR WORKING		
2	16 Aug 2013	FOR WORKING		
0	08 Nov. 2012	FOR APPROVAL		

ISSUE HISTORY

OWNER

CUSTOMER: CMD

JOB NO.: CE0290T

HULL NO.: DE014

MFG NO.: S14-004

DRAWING TITLE: SPARE LIST

PROJECT NAME: MAN B&W 7S80ME-C ENGINE #3 HPS-START UP PUMPS

DESIGNED BY	GOH	DATE 02 Nov. 2012
DRAWN BY	GOH	DATE 04 Nov. 2012
CHECKED BY	JAMES	DATE 06 Nov. 2012
APPROVED BY	LIM	DATE 08 Nov. 2012

DRAWING NO.: H-121104-08-0

REV.: 4

SCALE: NTS

SIZE: A4

01 OF 01

BOND INSTRUMENTATION
BOND Instrumentation Pte Ltd
8 Gul Street 3 SINGARORE 629265
Tel: 65-8614279 Fax: 65-8624062
E-mail: bondwu@china.com

LDCL - Starter Cabinet

Load Dependent Cylinder Liner LDCL
Cooling Water System

Circuit breaker adjustment
_1-16A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01
00010101	LKOL	JARY				00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness		Suppl. Drawing No.:		
Material / Blank:		Final User Material:		Mass (kg):
Scale:	Size: A3	Product Type: LDCL UNIT	Projection:	Page No.: 1 (13)
Info. No.: 7B4250		Item Name: STARTER CABINET		Item Id.: 5570701-9
Final User Info. No.:		Final User Description:		Final User Ident. No.:

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CAD Drawing - do not correct by hand - PDS Drawing

1 Layout

2 Main / Control Voltage

3 Component list

4

5

6

7

8

9

10

LDHT/LDCL - Starter Cabinet

Index 1-10

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale: Size: A3

Product type: LDCL UNIT

Projection: Page No.: 2 (13)

Info. No.: 7B4250

Item Id.: 5570701-9

Item Name: STARTER CABINET

Final User Info. No.:

Final User Description:

Final User Ident. No.:

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CAD Drawing - do not correct by hand - PCS Drawing

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20130701	LKOL	JYA	Z3	Component K1 updated		01

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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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Layout

Layout

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

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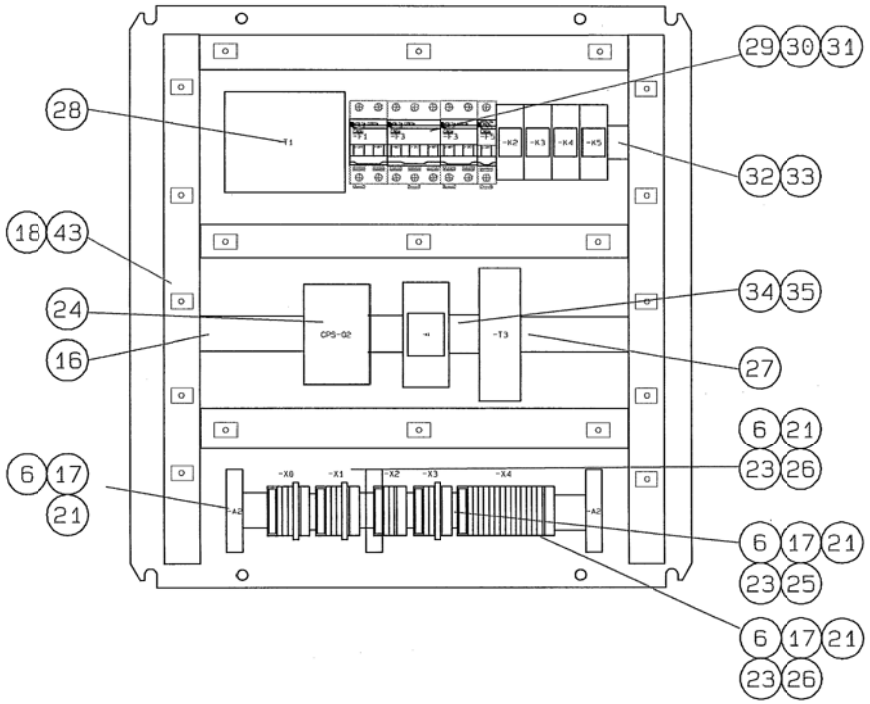

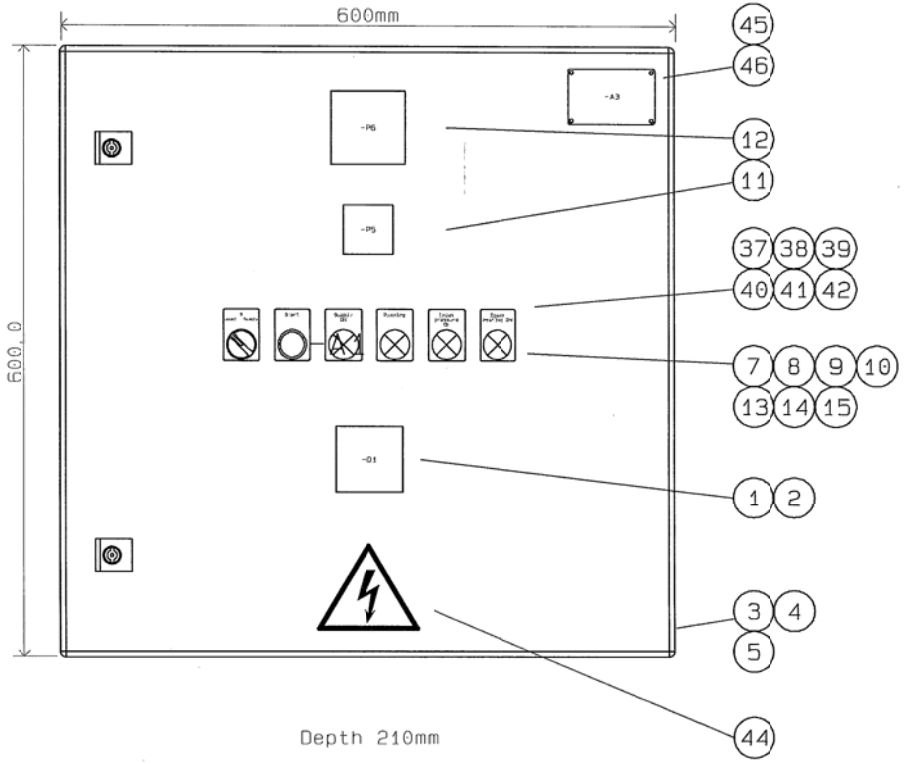

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

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Main / Control Voltage

Main / Control Voltage	Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20130701	LKOL	JYA	Z3	Component K1 updated			01
	Scale:	Size: A3	Product Type: LDCL UNIT			Projection:	Page No.: 6 (13)	
	Info. No.: 7B4250		Item Name: STARTER CABINET				Item Id.: 5570701-9	
	Final User Info. No.:		Final User Description:				Final User Ident. No.:	

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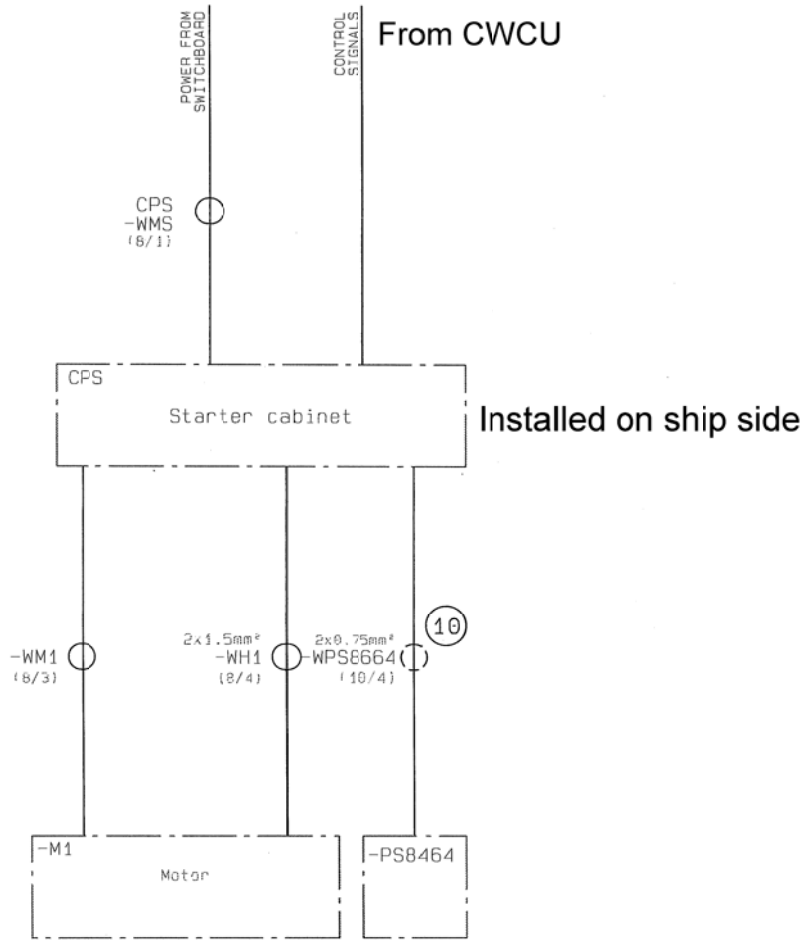
CAD Drawing - do not correct by hand - PCS Drawing



Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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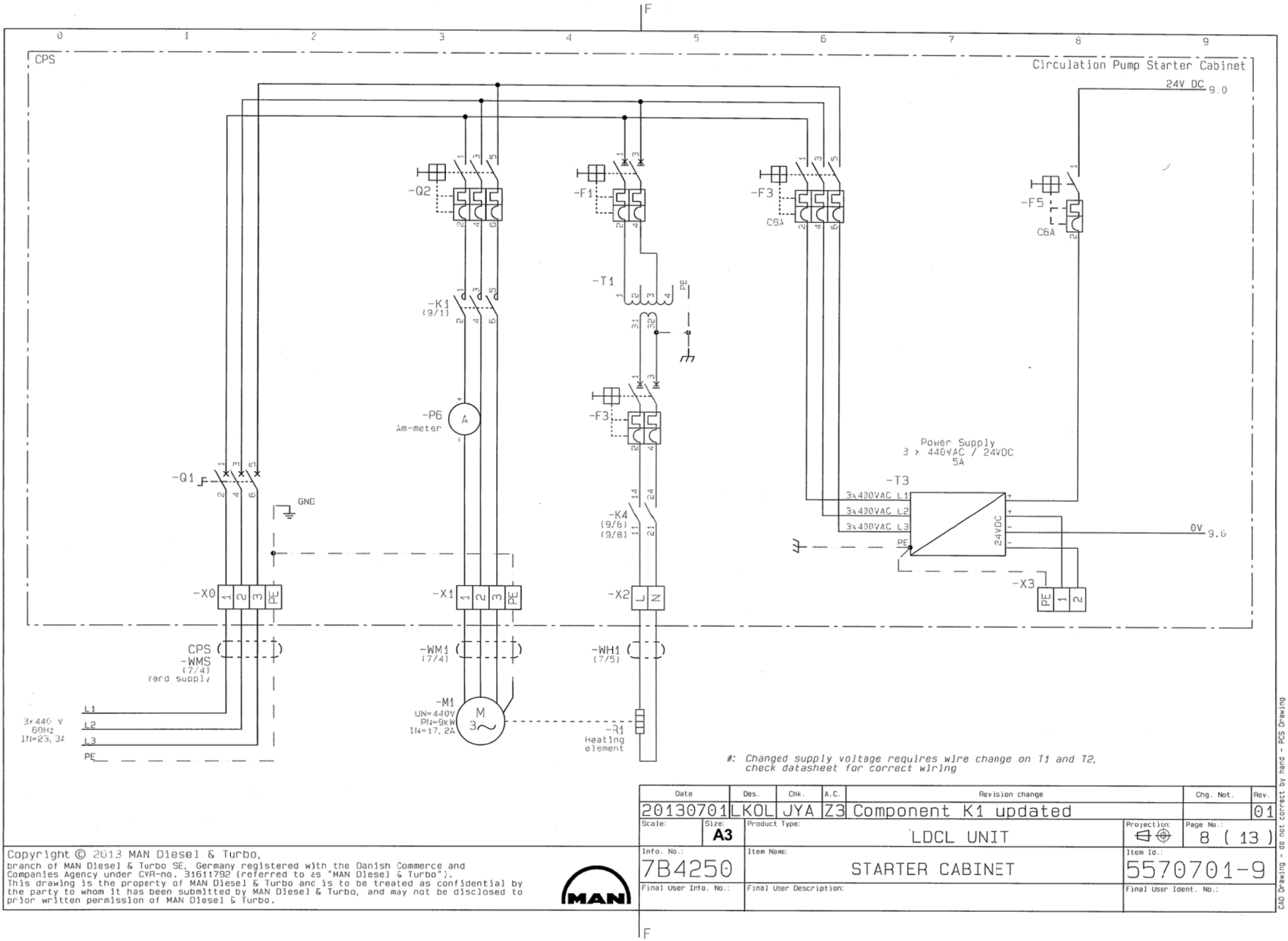
CAD Drawing - do not correct by hand - PCS Drawing



#: Changed supply voltage requires wire change on T1 and T2, check datasheet for correct wiring

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	LDCL UNIT		8 (13)

Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

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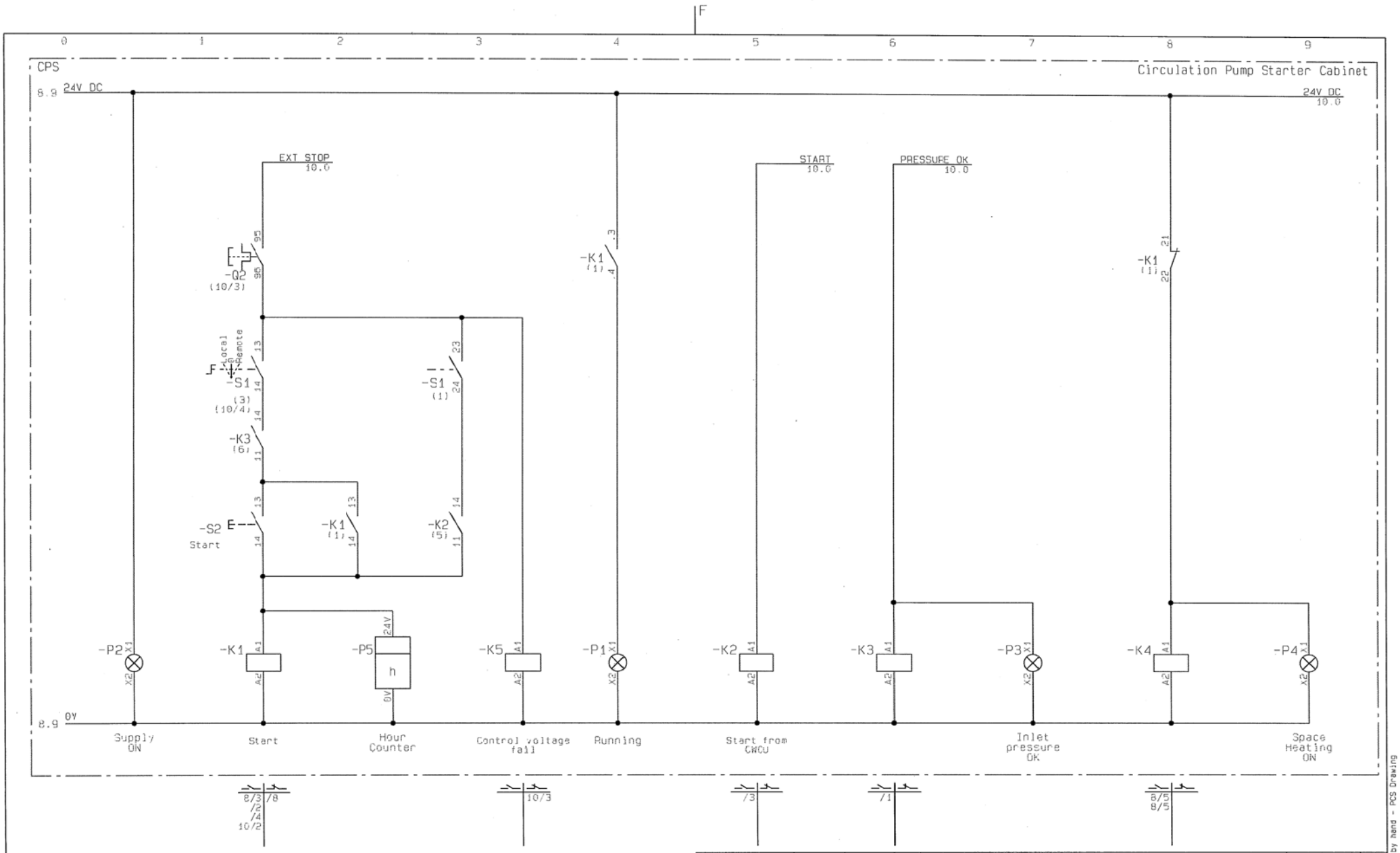
CAD Drawing - do not correct by hand - PDS Drawing



Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

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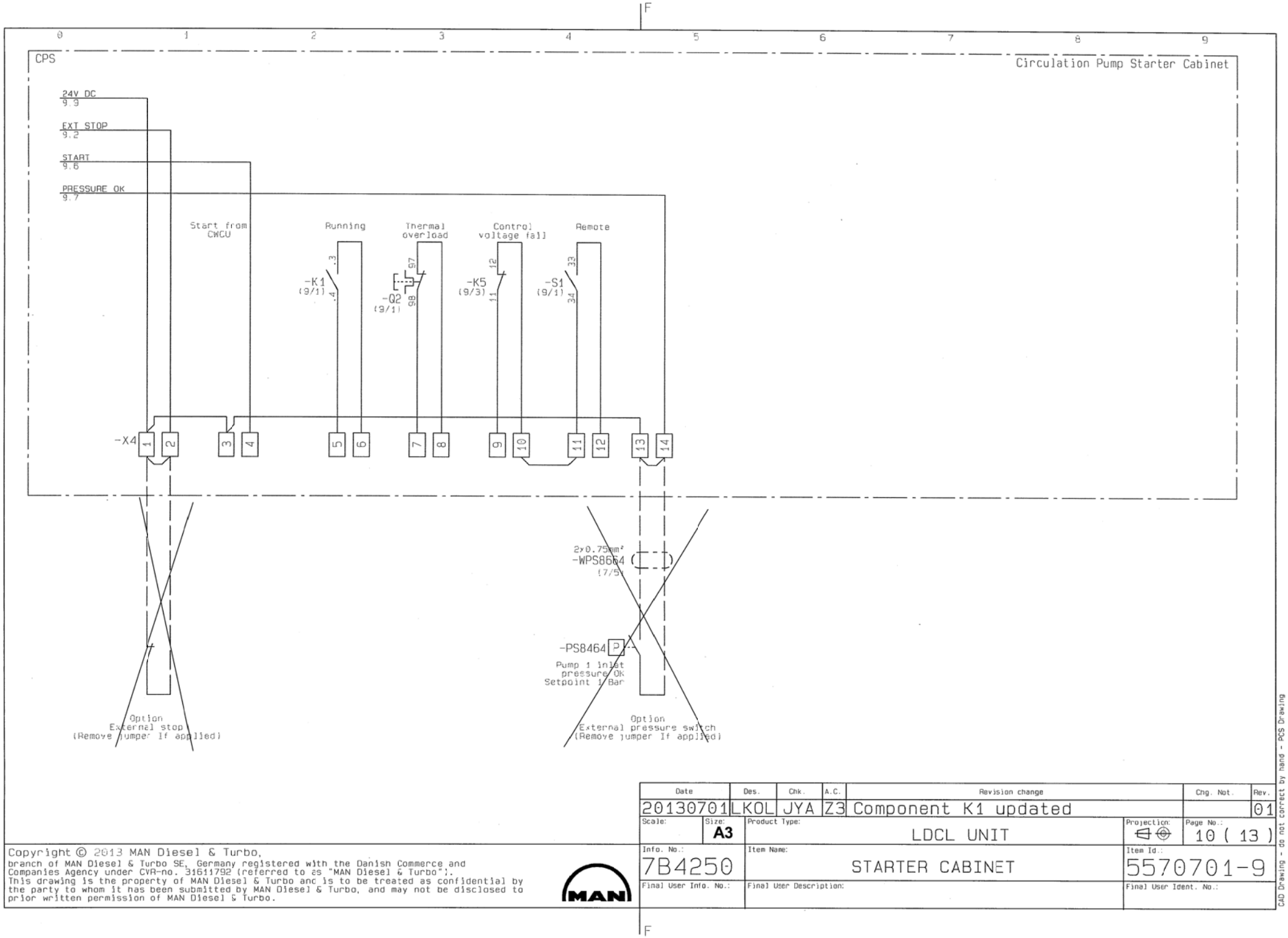

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

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CAD Drawing - do not correct by hand - PDS Drawing

Component list

Component list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130701	LKOL	JYA	Z3	Component K1 updated		01
	Scale:	Size: A3	Product Type: LDHT/LDCL UNIT			Projection:	Page No.: 11 (13)
	Info. No.: 7B4250		Item Name: STARTER CABINET				Item Id.: 5570701-9
	Final User Info. No.:		Final User Description:				Final User Ident. No.:

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CAD Drawing - do not correct by hand - PCS Drawing

Component List

Pos No.	Ref.	ID Name	Item ID	Type	Description	Maker	Page / Grid
		-A1					5/3
43	CPS	-A1	5117679-1	KR6/8-G5	Holder for Cable Tie, 22.4 x 14.7 x 11.2 mm	Solar	5/1
3	CPS	-A1	5175079-1	AE 1060.500	Enclosure Steel, 600 x 600 x 210mm IP 66 RAL 7035	Rittal	8/0
43	CPS	-A2	5117679-1	KR6/8-G5	Holder for Cable Tie, 22.4 x 14.7 x 11.2 mm	Solar	8/0
17	CPS	-A2	0795265-3	SZ 2366	Rail mounting bracket	Rittal	8/0
45	CPS	-A3	5385072-8	CC-M 85/54 4x3 ST	Sign, Nameplate, 85 x 54 x 0,5 Ø4x3.3 mm Stainless Steel	Weidmüller	8/0
44	CPS	-D1	ISO 7010-W012	EN690A30121001	Safety signs * Electricity * EN690A = Aluminium - 100 mm(w)	MAN Diesel SE	5/7
29	CPS	-F1	0979912-0	24332	Mcb C60N 2P C2	Merlin Gerin	8/5
31	CPS	-F3	0979916-8	24348	Mcb C60N 3P C6	Merlin Gerin	8/6
29	CPS	-F3	0979912-0	24332	Mcb C60N 2P C2	Merlin Gerin	8/5
30	CPS	-F5	0979909-7	24309	Mcb C60N 1P C6	Merlin Gerin	8/8
34	CPS	-K1		3RT2026-2BB40	Contactor, AC-3, 11KW/400V, 1NO+1NC, DC 24V, 3-pole, S0 spring	SIEMENS	9/1
35	CPS	-K1		3RH2911-2HA31	Aux. switch block, 3NO+1NC cond, path: 1NC, 1NO, 1NO, 1NO, spring	SIEMENS	9/4
32	CPS	-K2	0791655-0	PT570L24	RELAY 4C/O LED 6A 24VDC PT570L24	Schrack	9/5
33	CPS	-K2	0795264-1	PT78740	Schrack relay socket	Schrack	9/5
32	CPS	-K3	0791655-0	PT570L24	RELAY 4C/O LED 6A 24VDC PT570L24	Schrack	9/6
33	CPS	-K3	0795264-1	PT78740	Schrack relay socket	Schrack	9/6
32	CPS	-K4	0791655-0	PT570L24	RELAY 4C/O LED 6A 24VDC PT570L24	Schrack	9/8
33	CPS	-K4	0795264-1	PT78740	Schrack relay socket	Schrack	9/8
32	CPS	-K5	0791655-0	PT570L24	RELAY 4C/O LED 6A 24VDC PT570L24	Schrack	9/3
33	CPS	-K5	0795264-1	PT78740	Schrack relay socket	Schrack	9/4
38	CPS	-P1	5568149-9	Name Plate	Name Plate, "RUNNING"	MAN Diesel & Turbo	9/4
14	CPS	-P1	0795144-3	XB4BVB3	Pilot light GN(Green) 24V AC/DC	Telemecanique	9/4
37	CPS	-P2	5568148-7	Name Plate	Name Plate, "SUPPLY ON"	MAN Diesel & Turbo	9/1
13	CPS	-P2	0789391-5	XB4BVB1	Pilot light WH(White) 24V AC/DC	Telemecanique	9/1
40	CPS	-P3	5568150-9	Name Plate	Name Plate, "INLET PRESSURE OK"	MAN Diesel & Turbo	9/7
14	CPS	-P3	0795144-3	XB4BVB3	Pilot light GN(Green) 24V AC/DC	Telemecanique	9/7
41	CPS	-P4	5568151-0	Name Plate	Name Plate, "SPACE HEATING ON"	MAN Diesel & Turbo	9/9
15	CPS	-P4	0795270-0	XB4BVB6	Pilot light blue 24VAC/DC	Telemecanique	9/9
11	CPS	-P5	5318268-1	HC48	Time counter 24VDC 48x48mm	Deif A/S	9/2
12	CPS	-P6	0791665-7	EQ72-x 0-40A	Analog ammeter scale 0-40A	Deif A/S	8/3
2	CPS	-Q1	5274157-9	OT25FT3	SWITCH-DISCONNECTOR 3-polet 25A, Frontmontage,	ABB	8/1
1	CPS	-Q1	5273385-0	OHBS2RJ	Black HANDLE, 1-0-2, 65x65mm, lockable	ABB	8/1
24	CPS	-Q2	5570328-2	3RV2111-4AA10	Circuit-breaker S00, cl.10, A-udl. 11-16A, N-udl. 208Ascrew	SIEMENS	8/3
42	CPS	-S1	5568146-3	Name Plate	Name Plate, "LOCAL / 0 / REMOTE"	MAN Diesel & Turbo	9/1
10	CPS	-S1	0795259-4	ZBE101	Contact, 1NO	Telemecarique	10/4
9	CPS	-S1	0789343-7	XB4BD33	Selector switch 3 pos., short handle, 2NO	Telemecarique	9/1
39	CPS	-S2	5568147-5	Name Plate	Name Plate, "START"	MAN Diesel & Turbo	9/2
7	CPS	-S2	5145340-1	ZB4BA1	Pushbutton flush white	Telemecarique	9/2
8	CPS	-S2	0795272-4	ZB4BZ101	Switch body with 1NO	Telemecarique	9/1
28	CPS	-T1	0791662-1	4AM4042-5CT10-0FA0	TRANSFORMER SITAS; PHASES:1; PN/PN(S6)(kVA):0,25 /	Siemens	8/5

Components List

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	LDHT/LDCL UNIT		12 (13)

Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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Component List

Pos No.	Ref. ID Name	Item ID	Type	Description	Maker	Page / Grid
27	CPS -T3	5264840-4	QUINT-PS/ 3AC/24DC/ 5	Power Supply Unit 24VDC/5 A, Primary Switched-mode, 3-phase	Phoenix Contact	8/7
23	CPS -X0	5196151-1	PT 2,5	Feed-through modular terminal block, 2,5mm² GY	Phoenix Contact	8/1
25	CPS -X0	5196870-0	PT 2,5-PE	Ground Feed-through Ground terminal block, 2,5mm² GNYE	Phoenix Contact	8/2
26	CPS -X0	5207882-5	D-ST 2,5	End cover for modular terminal blocks GY	PHOENIX CONTACT GmbH & Co.KG	8/2
6	CPS -X0	0788942-3	KLM-A	Terminal strip marker	Phoenix Contact	8/2
21	CPS -X0	0788923-2	E/NS 35 N	End bracket	PHOENIX CONTACT GmbH & Co.KG	8/2
23	CPS -X1	5196151-1	PT 2,5	Feed-through modular terminal block, 2,5mm² GY	Phoenix Contact	8/3
25	CPS -X1	5196870-0	PT 2,5-PE	Ground Feed-through Ground terminal block, 2,5mm² GNYE	Phoenix Contact	8/4
26	CPS -X1	5207882-5	D-ST 2,5	End cover for modular terminal blocks GY	PHOENIX CONTACT GmbH & Co.KG	8/4
6	CPS -X1	0788942-3	KLM-A	Terminal strip marker	Phoenix Contact	8/4
21	CPS -X1	0788923-2	E/NS 35 N	End bracket	PHOENIX CONTACT GmbH & Co.KG	8/4
23	CPS -X2	5196151-1	PT 2,5	Feed-through modular terminal block, 2,5mm² GY	Phoenix Contact	8/5
26	CPS -X2	5207882-5	D-ST 2,5	End cover for modular terminal blocks GY	PHOENIX CONTACT GmbH & Co.KG	8/5
6	CPS -X2	0788942-3	KLM-A	Terminal strip marker	Phoenix Contact	8/5
21	CPS -X2	0788923-2	E/NS 35 N	End bracket	PHOENIX CONTACT GmbH & Co.KG	8/5
23	CPS -X3	5196151-1	PT 2,5	Feed-through modular terminal block, 2,5mm² GY	Phoenix Contact	8/8
25	CPS -X3	5196870-0	PT 2,5-PE	Ground Feed-through Ground terminal block, 2,5mm² GNYE	Phoenix Contact	8/8
26	CPS -X3	5207882-5	D-ST 2,5	End cover for modular terminal blocks GY	PHOENIX CONTACT GmbH & Co.KG	8/8
6	CPS -X3	0788942-3	KLM-A	Terminal strip marker	Phoenix Contact	8/8
21	CPS -X3	0788923-2	E/NS 35 N	End bracket	PHOENIX CONTACT GmbH & Co.KG	8/8
23	CPS -X4	5196151-1	PT 2,5	Feed-through modular terminal block, 2,5mm² GY	Phoenix Contact	10/1
26	CPS -X4	5207882-5	D-ST 2,5	End cover for modular terminal blocks GY	PHOENIX CONTACT GmbH & Co.KG	10/0
6	CPS -X4	0788942-3	KLM-A	Terminal strip marker	Phoenix Contact	10/0
21	CPS -X4	0788923-2	E/NS 35 N	End bracket	PHOENIX CONTACT GmbH & Co.KG	10/0

Components List

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130701	LKOL	JYA	Z3	Component K1 updated		01

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	A3	LDHT/LDCL UNIT		13 (13)

Info. No.:	Item Name:	Item Id.:
7B4250	STARTER CABINET	5570701-9

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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Cooling Water Control System

Load Dependent Cylinder Liner LDCL Cooling Water System

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07
20130814	LKOL	JYA	X3	SCU option added		06
20130802	LKOL	JYA	X3	Lamp test added		05
20130412	JARY	JARY				00

Basic Standards (MBD SB): EN21F-m Tolerances EN21C Surf. roughness		Suppl. Drawing No.:		
Material / Blank:		Final User Material:		Mass (kg):
Scale:	Size: A3	Product Type: LDCL UNIT	Projection:	Page No.: 1 (21)
Info. No.: 7B4253		Item Name: COOLING WATER CONTROL		Item Id.: 5557496-3
Final User Info. No.:		Final User Description:		Final User Ident. No.:

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CAD Drawing - do not correct by hand - PLS Drawing

1 I/O

2 Layout

3 Main / Control Voltage

4 Component List

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Cooling Water Control System

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20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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10	Cable plan, cabling on unit
11	Cable plan, yard cabling
12	Power, Circulation Pump Cabinet interface
13	Jacket Cooling Water Temparature, Circulation pump pressure
14	3-way valves
15	Interface to engine & AMS
16	Alarm indication
17	Network A/B connections ME / ME-C Engine mounted control cabinets
18	Network A/B connections ME / ME-C Common control cabinets
19	Network A/B connections ME-B
20	Component List
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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	LDCL UNIT		3 (21)

Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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Reference Designations	Description
ECS-1	Engine Control System Cabinet 1
+	AMS or
ECS-n	Cooling Water Control
ECC	Engine Control System Cabinet n
CWCS	Engine Control Cabinet
-CWCU	Cooling Water Control Cabinet (LDHT/LDCL)
CPS	Cooling Water Control Unit
-EICU-A/B Or	Circulation Pump Starter cabinet
-SCU	Engine Interface Control Unit A/B
AMS	Scavenging air Control Unit
ECC-1	Alarm and monitoring system
ECC-2	Engine Control Cabinet 1
	Engine Control Cabinet 2

Reference Designations	Description

Reference Designation

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	LDCL UNIT		4 (21)

Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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1 I/O

I/O	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07
	Scale:	Size: A3	Product Type: LDCL UNIT			Projection:	Page No.: 5 (21)
	Info. No.: 7B4253		Item Name: COOLING WATER CONTROL				Item Id.: 5557496-3
	Final User Info. No.:		Final User Description:				Final User Ident. No.:

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I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CWCU	J01		Power supply A Power supply B	Power		12.1
-CWCU	J04		Power out 2A	Power	CWCS-P8471	16.1
-CWCU	J20	ID 2405	Engine load	AI		15.7
-CWCU	J21	ID 8413	Cooling water, outlet engine	AI		13.2
-CWCU	J22	ID 8414	Jacket cooling water outlet	AI		13.3
-CWCU	J23	ID 8407	Cooling water inlet engine	AI		13.4
-CWCU	J24	ID 8460	3-way mixing valve position feedback	AI		14.1
-CWCU	J26	ID 8464	Circulation pump inlet pressure	AI		13.6
-CWCU	J27	ID 8465	Circulation pump outlet pressure	AI		13.7
-CWCU	J48	ID 8469	Circulation pump remote/local	DI		12.3
-CWCU	J49	ID 8470	Circulation pump running	DI		12.4
-CWCU	J50	ID 8474	Reset Alarm	DI		16.6
-CWCU	J60	ID 8419	Alarm	DO		15.3
-CWCU	J65		Network line A	Line A		17.3
-CWCU	J66		Network line B	Line B		17.6
-CWCU	J70	ID 8416	3-way mixing valve	AO		14.2
-CWCU	J71	ID 8406	Cooling water inlet setpoint	AO		15.1
-CWCU	J80	ID 8418	Circulation pump start/stop	DO		12.5
-CWCU	J81	ID 8471	Alarm indication GREEN	DO		16.2
-CWCU	J82	ID 8472	Alarm indication YELLOW	DO		16.3
-CWCU	J83	ID 8473	Alarm indication RED	DO		16.4

I/O (DI/DO/AI/AO) Lists

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

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2 Layout

Layout	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07
	Scale:	Size: A3	Product Type: LDCL UNIT			Projection:	Page No.: 7 (21)
	Info. No.: 7B4253		Item Name: COOLING WATER CONTROL				Item Id.: 5557496-3
	Final User Info. No.:		Final User Description:				Final User Ident. No.:

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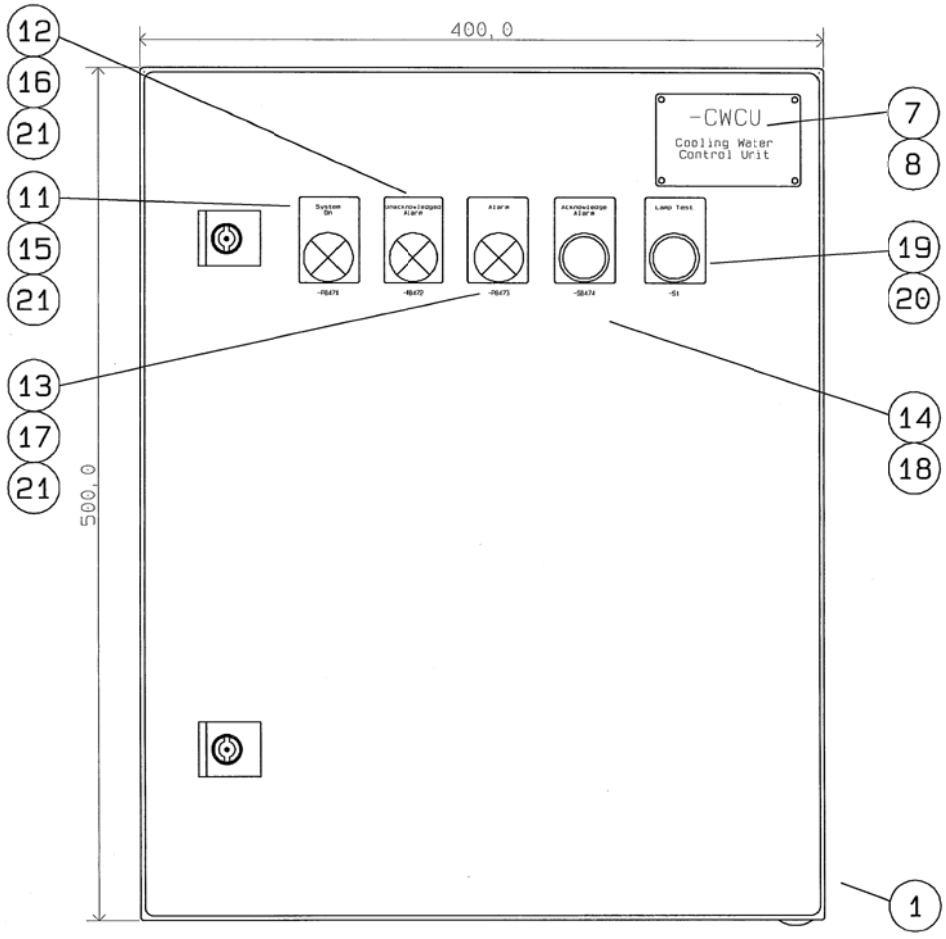
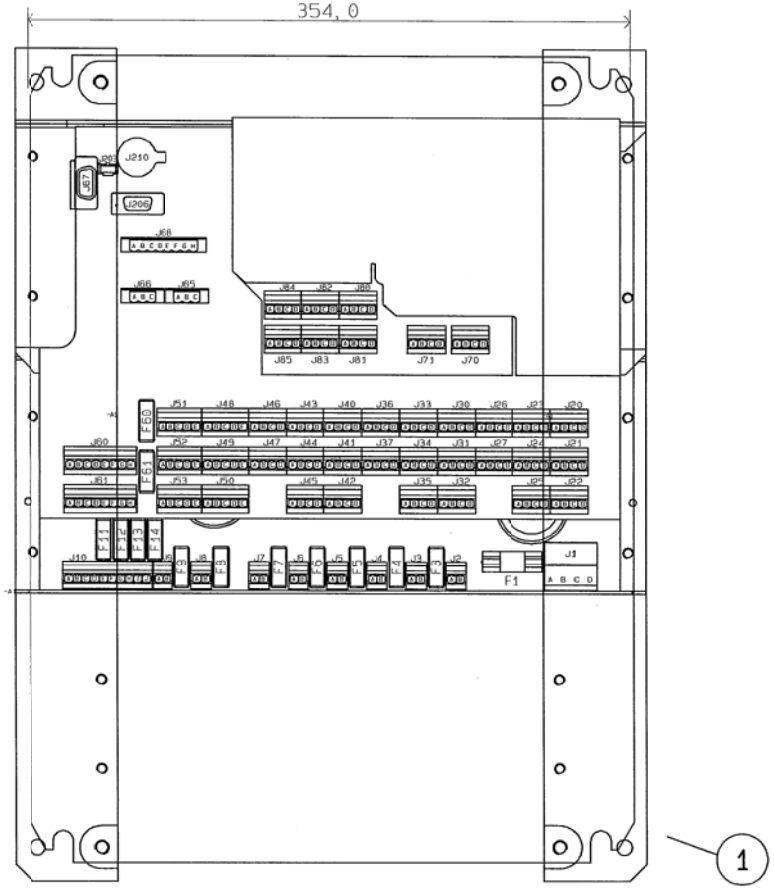
CWCS

Cooling Water Control Cabinet (LDHT/LDCL)





Layout Scale Factor 1:5

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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	A3	LDCL UNIT		8 (21)

Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

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3 Main / Control Voltage

Page

Main / Control Voltage	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07
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	Info. No.: 7B4253		Item Name: COOLING WATER CONTROL				Item Id.: 5557496-3
	Final User Info. No.:		Final User Description:				Final User Ident. No.:

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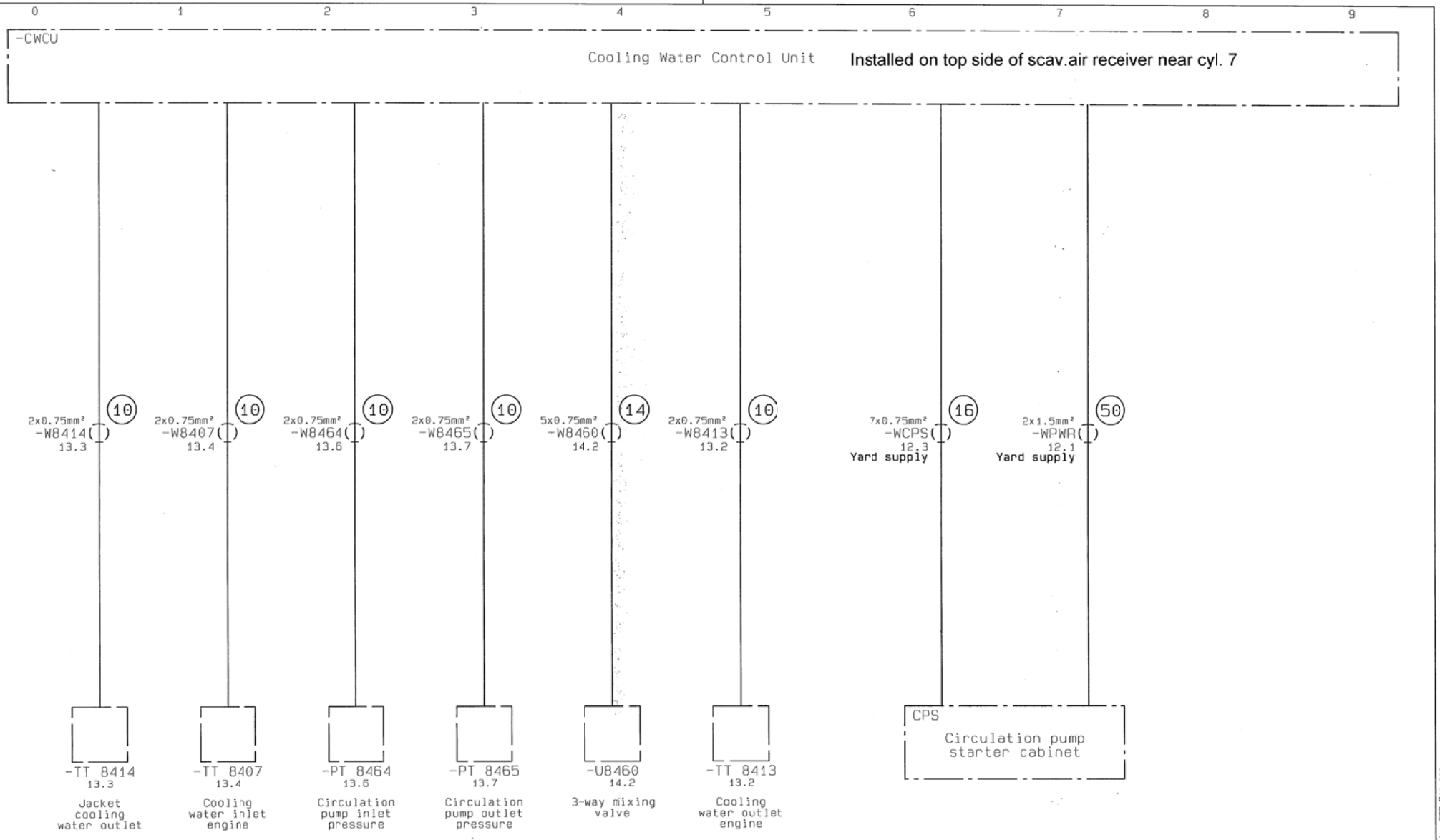

Cable plan, cabling on unit

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

Final User Info. No.:	Final User Description:	Final User Ident. No.:

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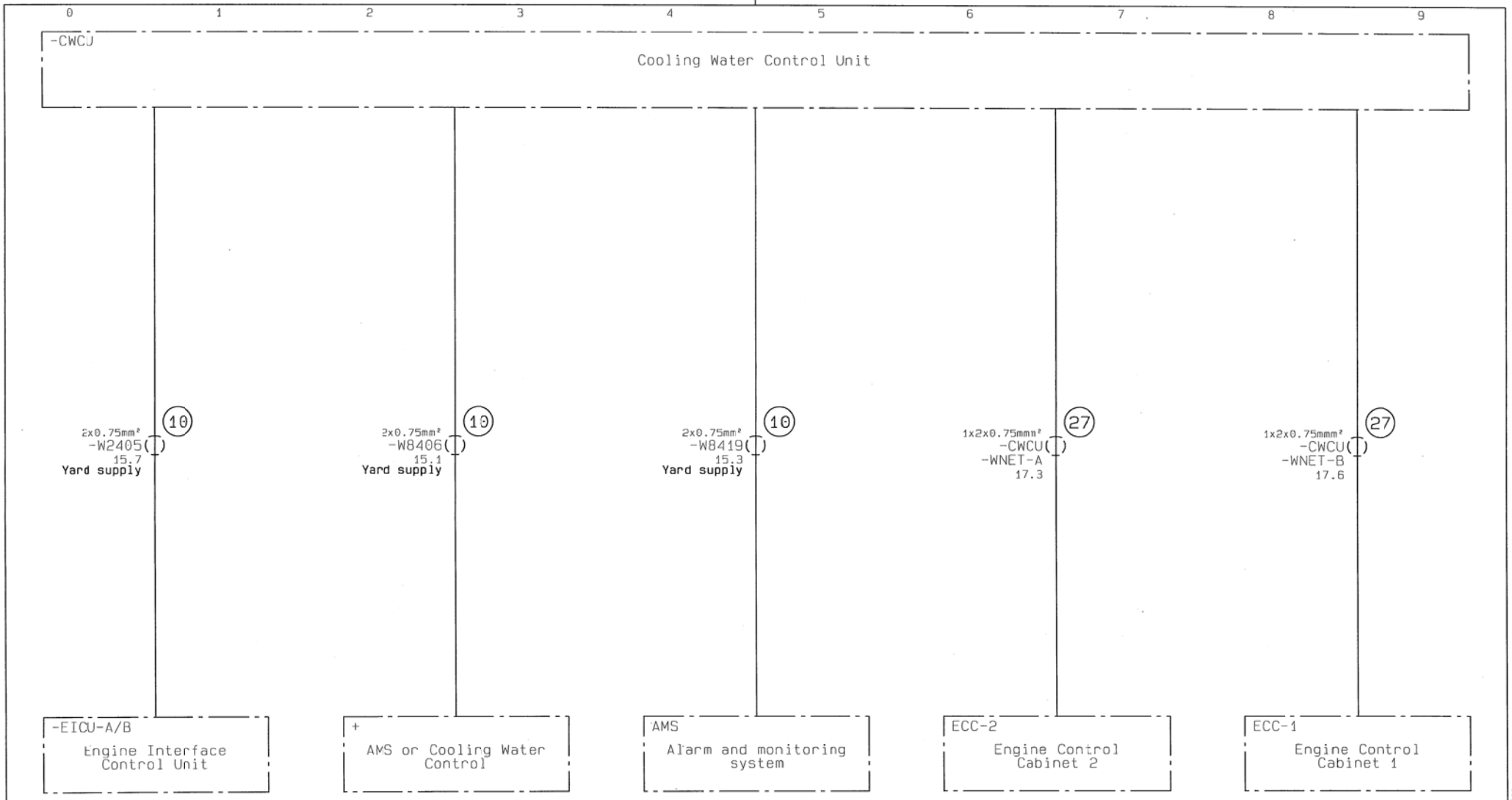

Cable plan, yard cabling

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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7B4253	COOLING WATER CONTROL	5557496-3
Final User Info. No.:	Final User Description:	Final User Ident. No.:

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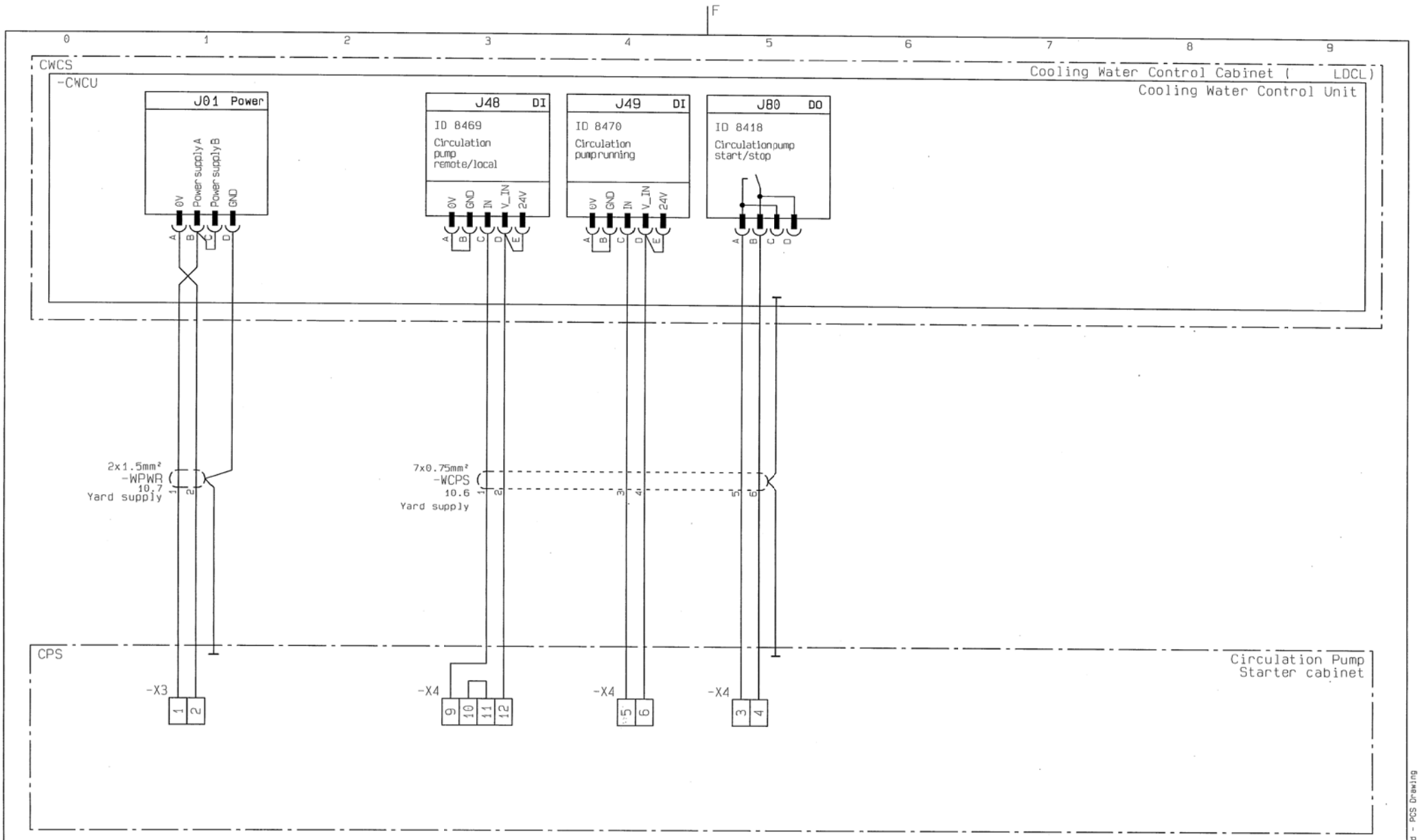

Power, Circulation Pump Cabinet interface

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

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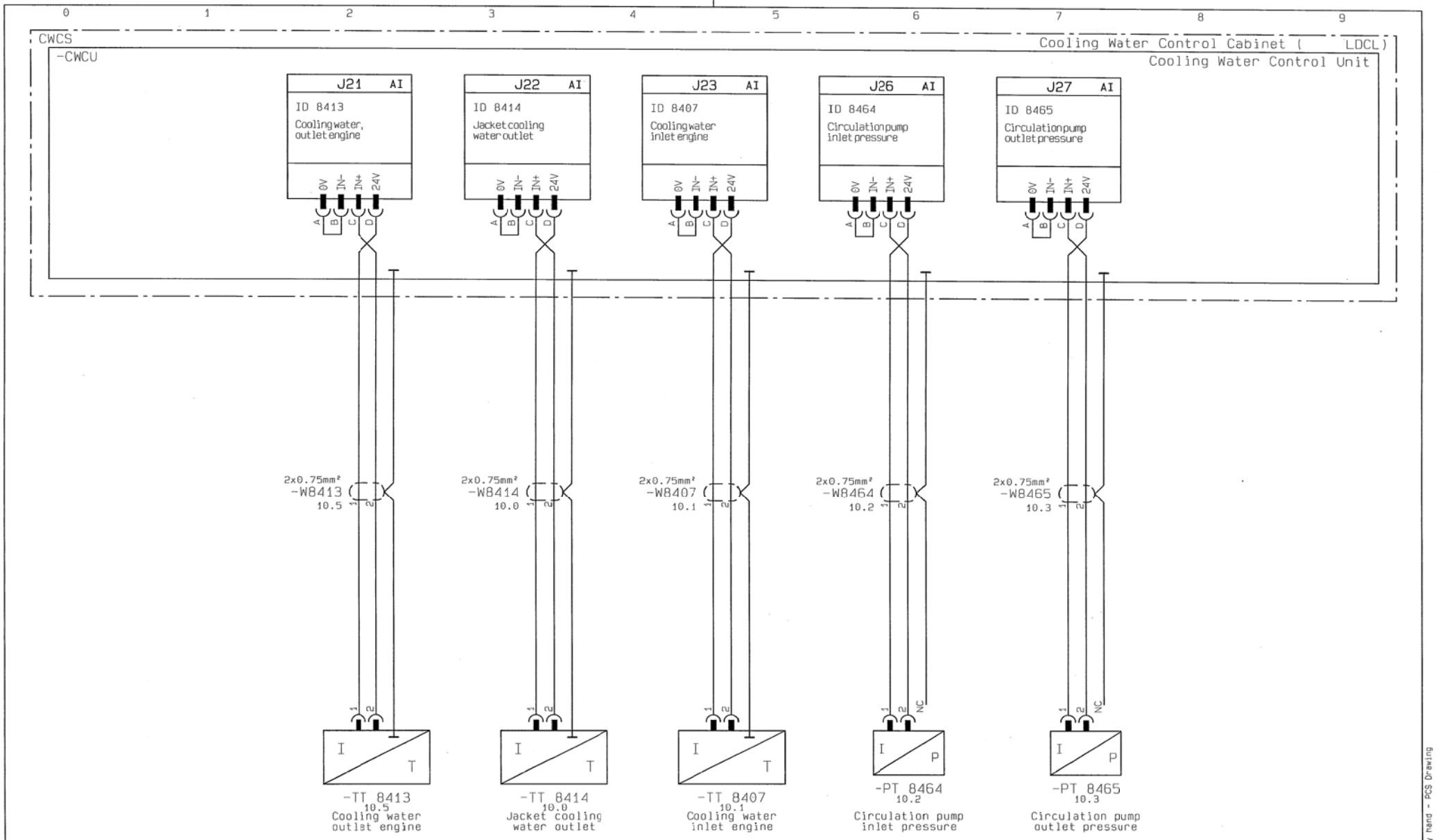

Jacket Cooling Water Temparature, Circulation pump pressure

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

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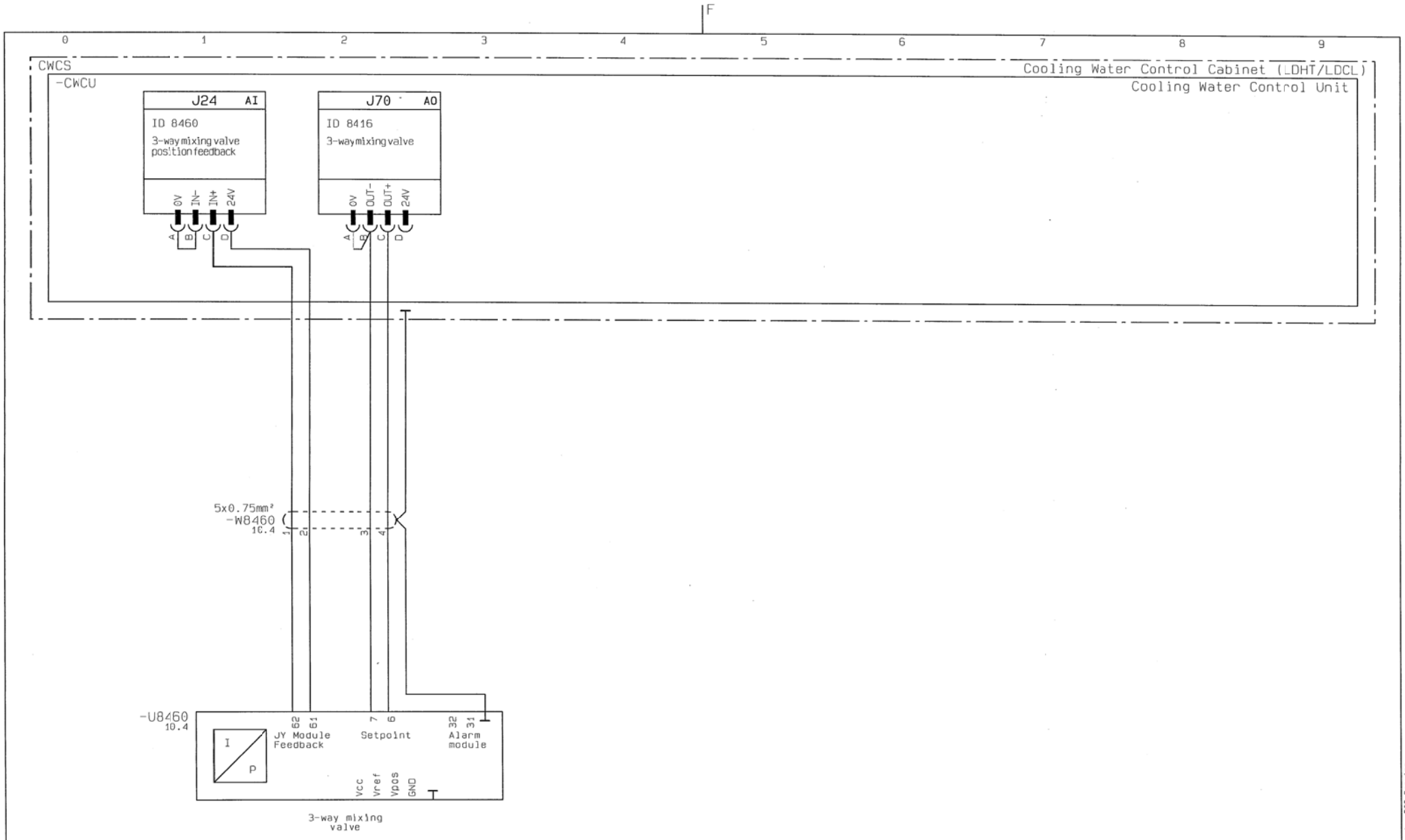

3-way valves

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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7B4253	COOLING WATER CONTROL	5557496-3

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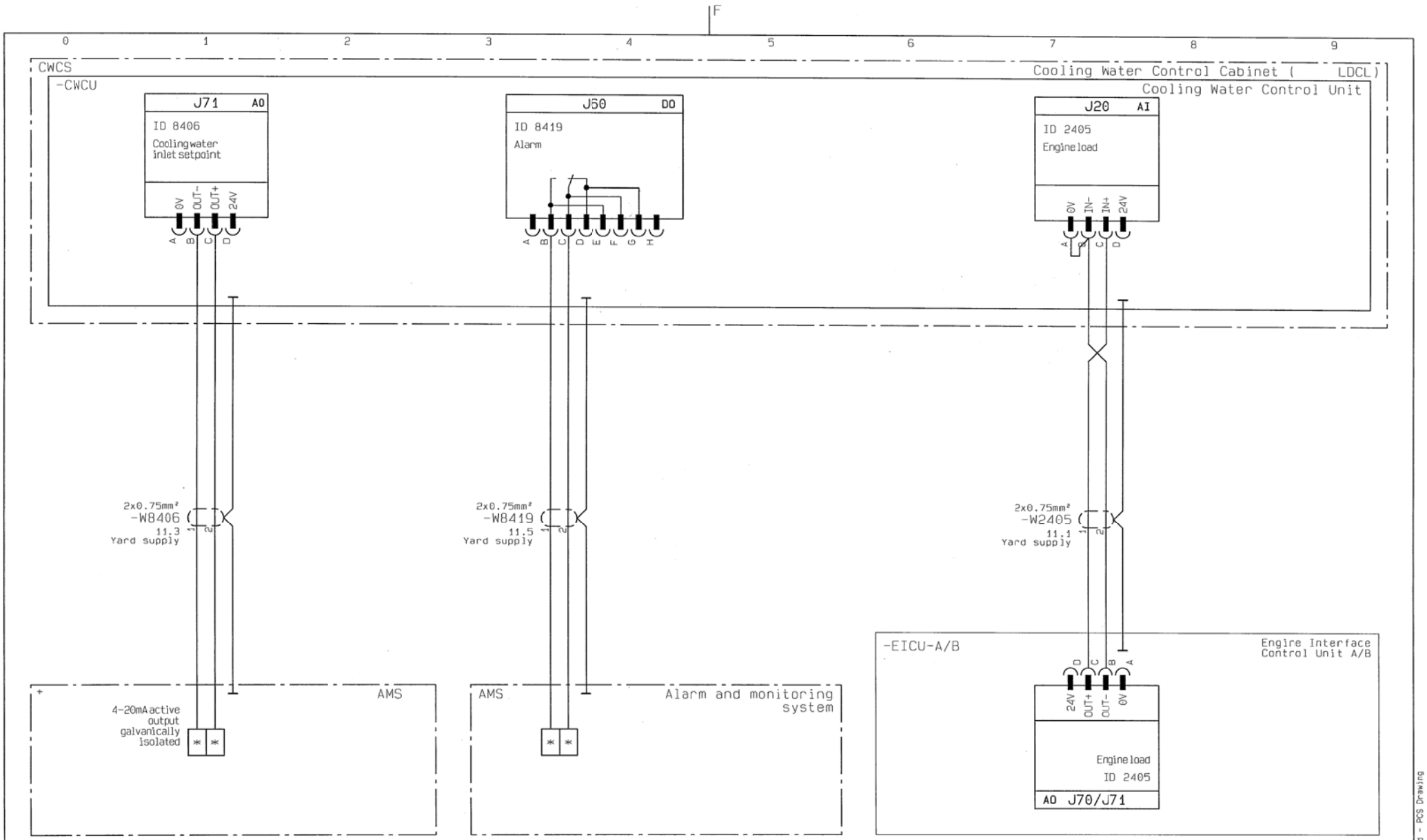

Interface to engine & AMS

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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Info. No.:	Item Name:	Item Id.:
7B4253	COOLING WATER CONTROL	5557496-3

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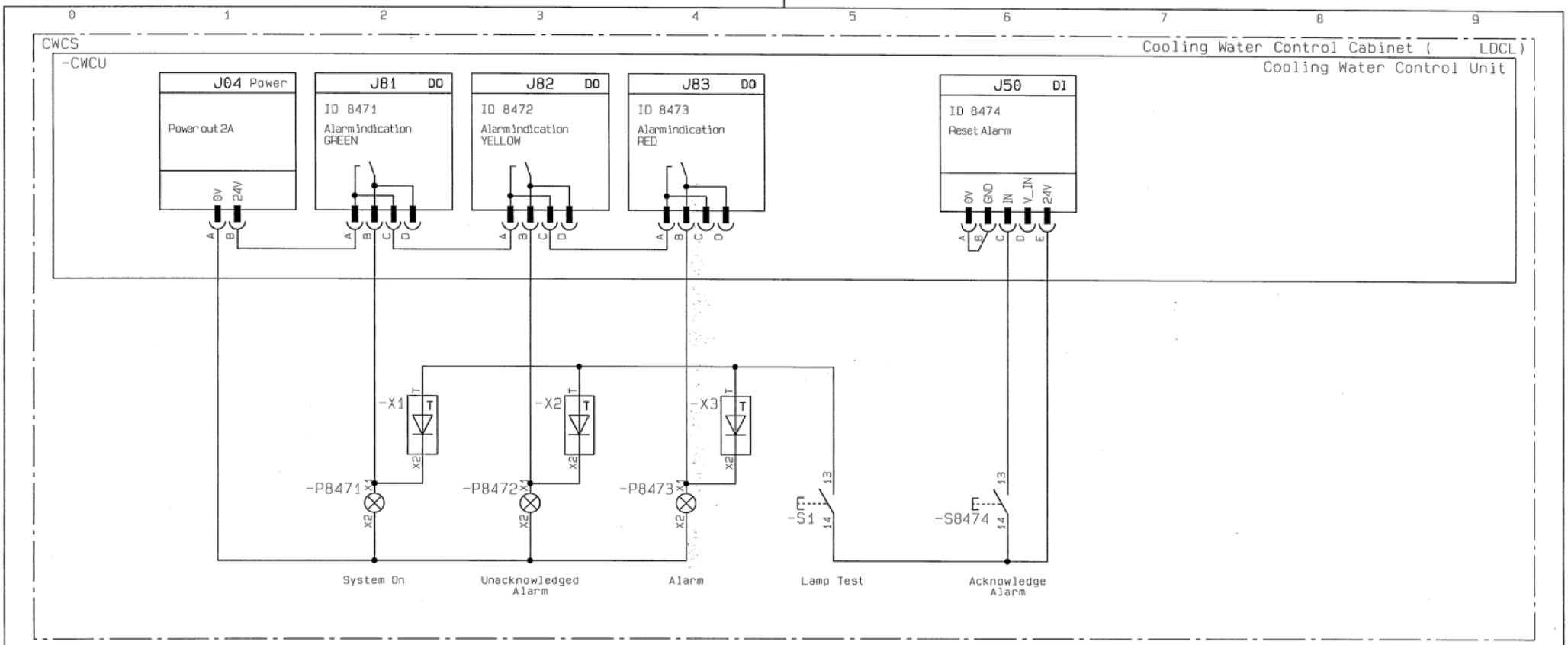

Alarm indication

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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7B4253	COOLING WATER CONTROL	5557496-3

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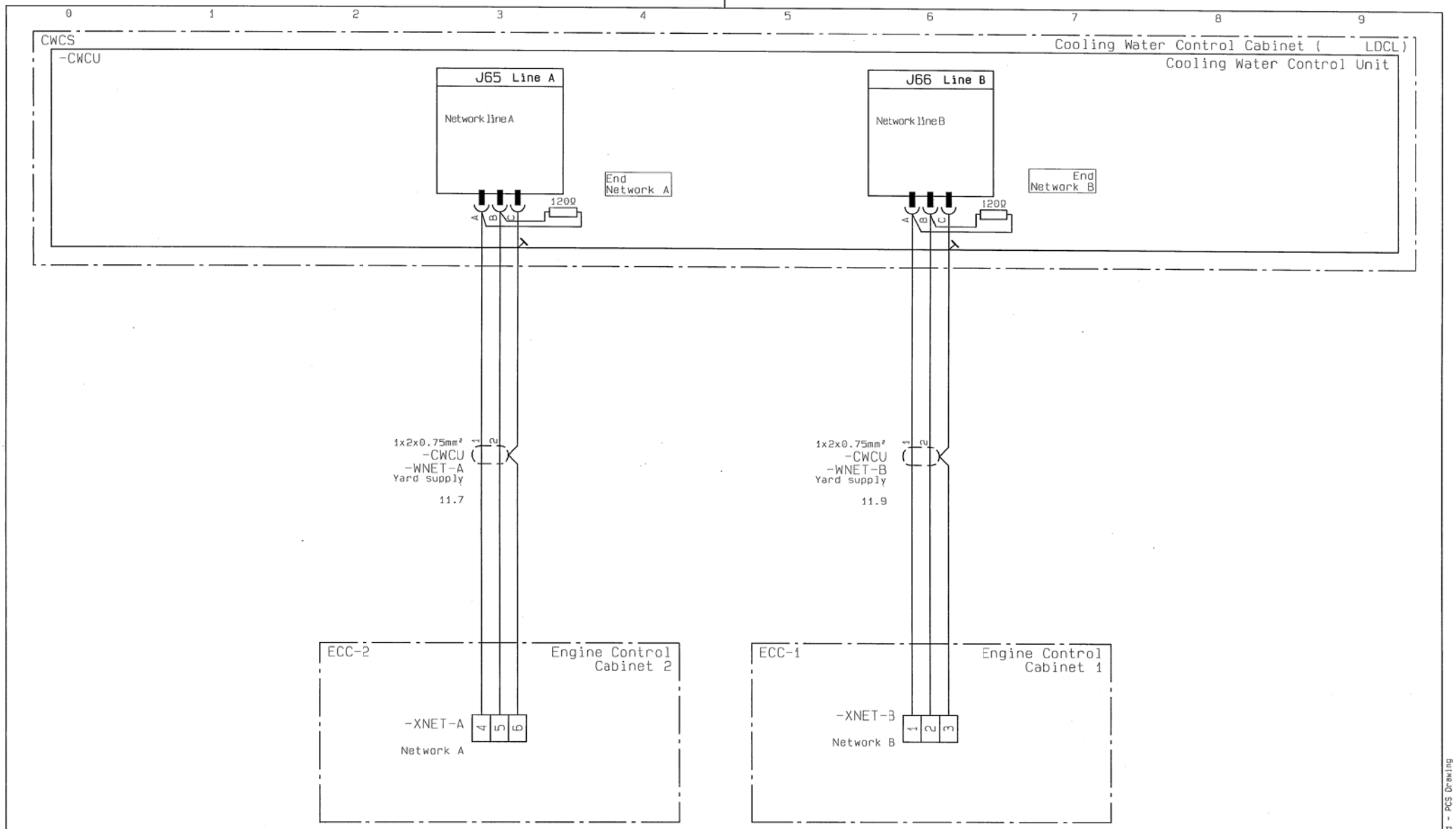

Network A/B connections ME / ME-C Engine mounted control cabinets

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

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4 Component List

Page

Component List	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

Scale:	Size:	Product Type:	Projection:	Page No.:
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Info. No.:	Item Name:	Item Id.:
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Component List

Pos No.	Ref.	ID Name	Item ID	Type	Description	Maker	Page / Grid
1	CWCS	-A1	1142075-2	MPC	MPC, Multi Purpose Controller	MAN Diesel & Turbo	12.0
1	CWCS	-A1	1142099-2	1142099-2	Bracket for MPC, 490 x 60 x 20 mm	MAN Diesel & Turbo	12.0
1	CWCS	-A1	1880491-4	AE 1045.500	Enclosure Steel, 400 x 500 x 210mm IP 66 RAL 7035	Rittal	12.0
20	CWCS	-A1	5568764-5	Name Plate	Name Plate, Text 1 "CWCU" Text 2 "Cooling Waster Control Unit"	MAN Diesel & Turbo	12.0
15	CWCS	-A2	5568142-6	Name Plate	Name Plate, "System On"	MAN Diesel & Turbo	16.0
16	CWCS	-A3	5568145-1	Name Plate	Name Plate, "Unacknowledged Alarm"	MAN Diesel & Turbo	16.0
17	CWCS	-A4	5568141-4	Name Plate	Name Plate, "Alarm"	MAN Diesel & Turbo	16.0
18	CWCS	-A5	5568143-8	Name Plate	Name Plate, "Acknowledge Alarm"	MAN Diesel & Turbo	16.0
19	CWCS	-A6	5575698-6	Name Plate	Name Plate, "Lamp test"	MAN Diesel & Turbo	16.0
11	CWCS	-P8471	0795144-3	XB5AVB3	Pilot light GN(Green) 24V AC/DC	Telemecanique	16.2
12	CWCS	-P8472	0789342-5	XB4BVB5	Pilot light YE(Yellow) 24V AC/DC	Telemecanique	16.3
13	CWCS	-P8473	0795145-5	XB4BVB4	Pilot light RD(Red) 24V AC/DC	Telemecanique	16.4
20	CWCS	-S1	5575776-5	XB4BA21	Push buttom complete, flush black, 1NO	Telemecanique	16.5
14	CWCS	-S8474	5563281-2	XB4BA61	Push buttom complete, flush BU(Blue), 1No	Telemecanique	16.6
21	CWCS	-X1	5576092-7	ZBZG156	Lamp test diode block, Harmony XB4	Schneider Electric	16.2
21	CWCS	-X2	5576092-7	ZBZG156	Lamp test diode block, Harmony XB4	Schneider Electric	16.3
21	CWCS	-X3	5576092-7	ZBZG156	Lamp test diode block, Harmony XB4	Schneider Electric	16.4

Components List

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130815	LKOL	JYA	X3	Ch. 61 changed to ch. 60		07

Scale:	Size:	Product Type:	Projection:	Page No.:
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