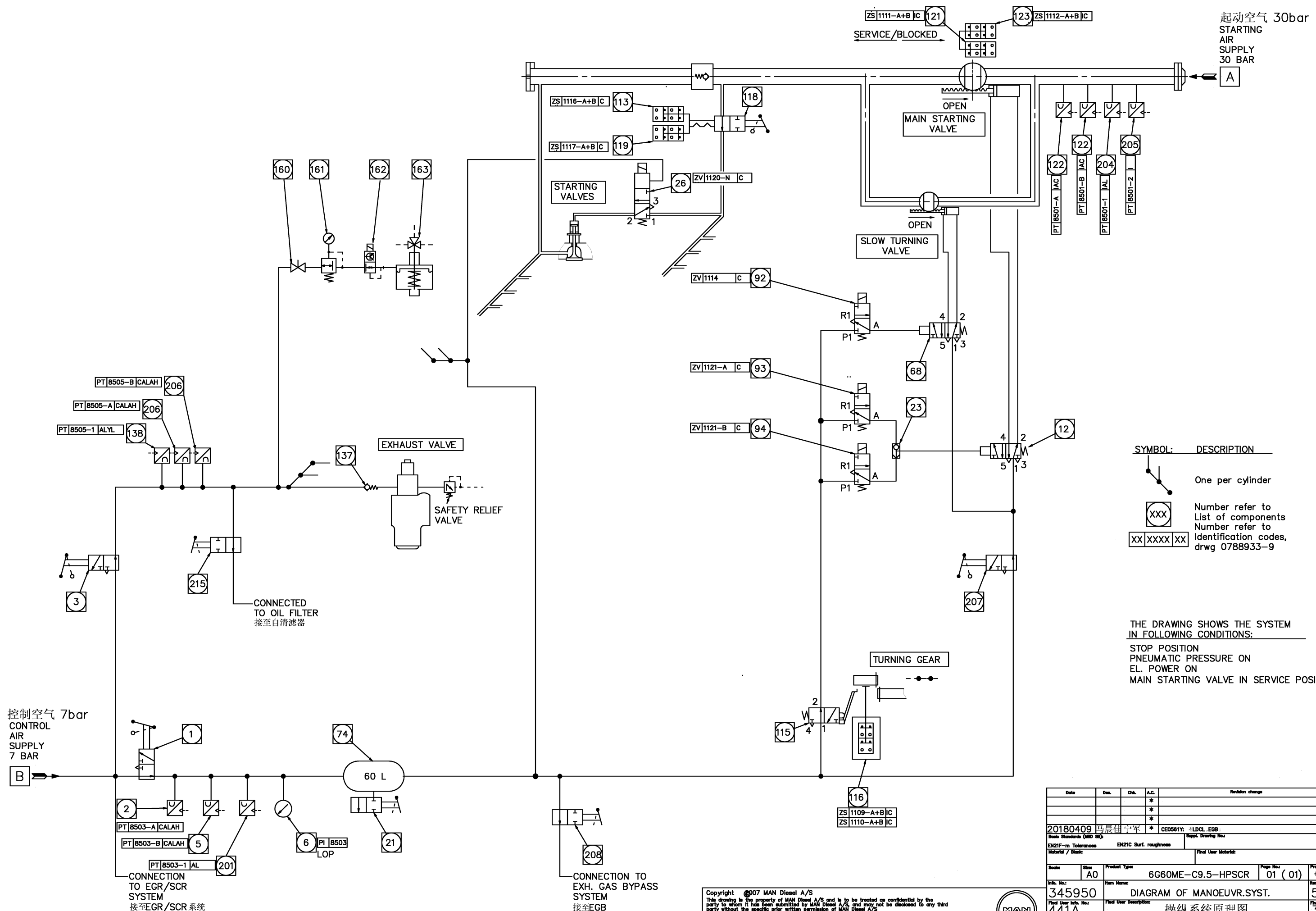


文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5		
HPSCR		台 份 Set No.				
		工程编号 Engine No.				
		船 厂 Shipyard		NTS		
		船 号 Hull No.		0311117/18/19/20		
		船级社 Classification Society		ABS		
CMD-MAN B&W 6G60ME-C MK9.5 MANEUV. AIR SYSTEM 1 控制空气原理图						
						5
						4
						3
						2
						1
修 改 说 明 Corrected Description						
						5
						4
						3
						2
						1
易志银 20170308	王勇 20170308	杜清 20170308				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
 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.	D6521508-9.	



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

Date	Des.	Chk.	A.C.	Revision change	Chg. No.	Rev.
			*			03
			*			02
			*			01
			*			00
20180409 马晨佳 宁军 * CE0561Y: 14DCL.EGB:						
Basic Standards (MBO SS): Suppl. Drawing No.:						
EN21F-m Tolerances EN21C Surf. roughness						
Material / Blank: Final User Material: Mass (kg):						
Scale:	Size:	Product Type:	Page No.:	Projection:	MAN Diesel	
	A0	6G60ME-C9.5-HPSCR	01 (01)			
Info. No.:	Item Name:	Diagram of MANOEVR.SYST.			Item No.:	5079633-3
345950					Final User Ident. No.:	3H-29640
441A	Final User Description:	操纵系统原理图				

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Info. No.1 345956		Description1 LIST OF COMPONENTS					Ident. No.1 5064063-3	
Final User Info. No.1		Final User Description1 操纵系统部件清单					Final User Ident. No.1 4H-19752	
Scale1 A4		Type1 6G60ME-C9.5			Page No.1 01 (04)		 CSSC-MES	
Date		Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20170925		马晨佳	宁军		✱	CE0561Y: 有LDCL, EGB:		0
20171101		马晨佳	宁军		✱	件号21放入441N, CSD07154A.		1
					✱			2
					✱			3
					✱	Replaced by Ident. No.1		4
QTY.	DESCRIPTION		POS.	DRAWING NO.		REMARKS		M.F.
#	=ONE PER ENGINE CYLINDER每缸一个					^:N REFERS TO CYLINDER NO ^:N对应气缸号		
1	BALL VALVE 球阀		1	1473842-5				441M
1	PRESSURE TRANSDUCER 压力传感器		2	2H-03883-3		PT8503-A/I C AH AL		441M
1	BALL VALVE 球阀		3	1300631-4				441M
1	PRESSURE TRANSDUCER 压力传感器		5	2H-03883-3		PT8503-B/I C AH AL		441M
1	PRESSURE GAUGE 压力表		6	3H-26438-103		PI8503		442C
1	5/2-WAY VALVE 二位五通阀		12	1241867-1				441M
1	BALL VALVE 球阀		21	4H-01270				441N
1	DOUBLE NON-RETURN VALVE 双向止回阀		23	1815699-7				441M
1#	3/2-WAY VALVE 二位三通阀		26	5158228-5		ZV1120-N^/C		531L

Info. No.1 345956		Description1 LIST OF COMPONENTS					Ident. No.1 5064063-3	
Final User Info. No.1		Final User Description1 操纵系统部件清单					Final User Ident. No.1 4H-19752	
Scale1	Size1 A4	Type1 6G60ME-C9.5				Page No.1 02 (04)	 CSSC-MES	
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement			C.No
20171101	马晨佳	宁军		米	件号21放入441N，CSD07154A.			1
QTY.	DESCRIPTION		POS.	DRAWING NO.		REMARKS		M.F.
1	5/2-WAY VALVE 二位五通阀		68	1241867-1		OPTION 4 50 140		441M
1	AIR RECEIVER 60L 60L空气瓶		74	3H-01375				441M
1	3/2-WAY SOLENOID VALVE 二位三通电磁阀		92	0557611-5		ZV1114-/I C OPTION 4 50 140		441M
1	3/2-WAY SOLENOID VALVE 二位三通电磁阀		93	0557611-5		ZV1121-A/I C		441M
1	3/2-WAY SOLENOID VALVE 二位三通电磁阀		94	0557611-5		ZV1121-B/I C		441M
1	SWITCH 限位开关		113	1360036-2		ZS1116-A+B/I C		531K
1	3/2-WAY VALVE 二位三通阀		115	0477727-2				132A
1	SWITCH 限位开关		116	1747151-7		ZS1109-A+B/I C		132A
1	SHUT-OFF VAVLE 球阀		118	5042563-4				531K
1	SWITCH 限位开关		119	1360036-2		ZS1117-A+B/C		531K
1	SWITCH 限位开关		121	0547439-8		ZS1111-A+B/I C		445A

CAD Drawing - do not correct by hand

Info. No.1 345956		Description1 LIST OF COMPONENTS				Ident. No.1 5064063-3	
Final User Info. No.1		Final User Description1 操纵系统部件清单				Final User Ident. No.1 4H-19752	
Scale1	Size1 A4	Type1 6G60ME-C9.5			Page No.1 03 (04)		 CSSC-MES
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20171101	马晨佳	宁军		米	件号21放入441N,CSD07154A:		1

QTY.	DESCRIPTION	POS.	DRAWING NO.	REMARKS	M.F.
2	PRESSURE TRANSMITTER 压力传感器	122	2H-03883-5	PT8501-A+B/I AL	441M
1	SWITCH 限位开关	123	0547439-8	ZS1112-A+B/I C	445A
1#	NON-RETURN VALVE 止回阀	137	EN206A10,105		343A
1	PRESSURE TRANSMITTER 压力传感器	138	2H-03883-3	PT8505/I AL YL	441M
1	BALL VALVE 球阀	160	EN233F13	LDCL	538Z
1	FILTER REGULATOR 减压阀	161	SEE 538Z	LDCL	538Z
1	I/P CONVETER I/P转换器	162	SEE 538Z	LDCL	538Z
1	3-WAY CONTROL VALVE 3通控制阀	163	SEE 538Z	LDCL	538Z
1	PRESSURE TRANSMITTER 压力传感器	201	2H-03883-3	PT8503-1/I AL	441M
1	PRESSURE TRANSMITTER 压力传感器	204	2H-03883-5	PT8501-1/I AL	442J
1	PRESSURE TRANSMITTER 压力传感器	205	2H-03883-5	PT8501-2/I	442J

CAD Drawing - do not correct by hand

Info. No.1 345956		Description1 LIST OF COMPONENTS					Ident. No.1 5064063-3	
Final User Info. No.1		Final User Description1 操纵系统部件清单					Final User Ident. No.1 4H-19752	
Scale1	Size1 A4	Type1 6G60ME-C9.5				Page No.1 04 (04)	 CSSC-MES	
Date		Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20171101		马晨佳	宁军		米	件号21放入441N,CSD07154A		1
QTY.	DESCRIPTION		POS.	DRAWING NO.		REMARKS		M.F.
2	PRESSURE TRANSMITTER 压力传感器		206	2H-03883-3		PT8501-A+B/I C AL AH		441M
1	BALL VALVE 球阀		207	3H-23971-T33				441N
1	BALL VALVE 球阀		208	4H-01270				441N
1	BALL VALVE 球阀		215	4H-01270				441N

Info. No.:		Description:			Ident. No.:	
345955		DESCRIPTION OF ENGINE MAN.SYSTEM			5064123-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	
		操纵系统说明			4H-16794	
Scale:	Size:	Type:			Page No.:	
	A4	6G60ME-C9.5			01 (05)	 CSSC-MES
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement	
20150925	丁超	宁军		*	工程编号 暂无 有LDCL, EGB:	
				*		
				*		
				*		
				*	Replaced by Ident. No.:	
				*		

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.

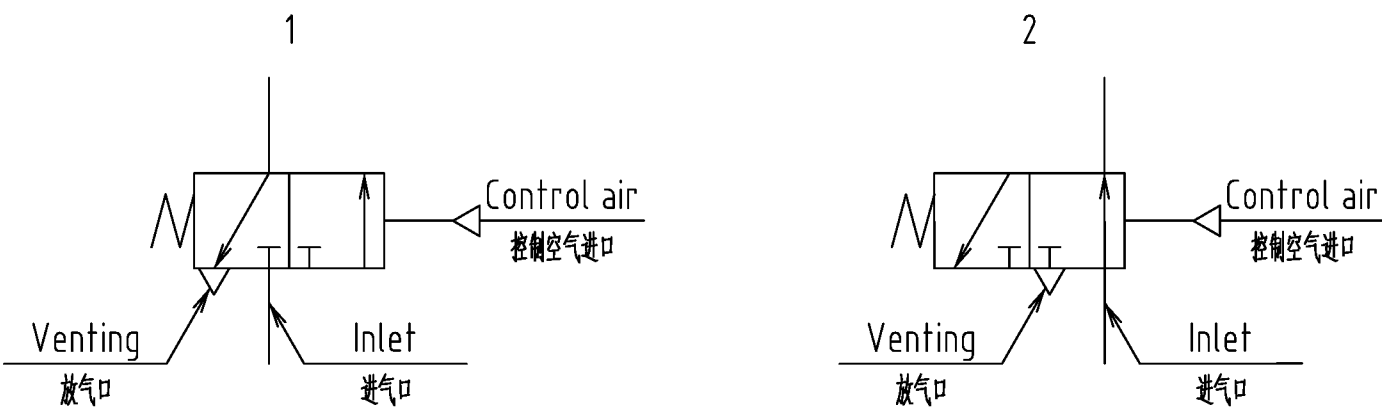
气动阀件符号包括一个或多个方框，方框的数量对应阀件的位置数，与连接线相连的方框表示在一定时刻下此阀件的位置。

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 pressure 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。

Info. No.:		Description:				Ident. No.:	
345955		DESCRIPTION OF ENGINE MAN.SYSTEM				5064123-3	
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
		操纵系统说明				4H-16794	
Scale:	Size:	Type:			Page No.:		 CSSC-MES
	A4	6G60ME-C9.5			02 (05)		
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20150925	丁超	宁军		米	工程编号 暂无 有LDCL, EGB:		0

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。

Info. No.:		Description:				Ident. No.:	
345955		DESCRIPTION OF ENGINE MAN.SYSTEM				5064123-3	
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
		操纵系统说明				4H-16794	
Scale:	Size:	Type:			Page No.:		 CSSC-MES
	A4	6G60ME-C9.5			03 (05)		
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20150925	丁超	宁军		米	工程编号 暂无 有LDCL, EGB:		0

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。

Info. No.:		Description:				Ident. No.:	
345955		DESCRIPTION OF ENGINE MAN.SYSTEM				5064123-3	
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
		操纵系统说明				4H-16794	
Scale:	Size:	Type:			Page No.:		 CSSC-MES
	A4	6G60ME-C9.5			04 (05)		
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20150925	丁超	宁军		米	工程编号 暂无 有LDCL, EGB:		0

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.
启动空气低压时桥楼启动联锁, 设定值15bar。

POS.123:SWITCH 限位开关

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

送信号至MOP显示主启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/TRANSMITTER 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。

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。

Info. No.:		Description:				Ident. No.:	
345955		DESCRIPTION OF ENGINE MAN.SYSTEM				5064123-3	
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
		操纵系统说明				4H-16794	
Scale:	Size:	Type:			Page No.:		 CSSC-MES
	A4	6G60ME-C9.5			05 (05)		
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement		C.No
20150925	丁超	宁军		米	工程编号 暂无 有LDCL, EGB:		0

POS.205:SENSOR FOR STARTING AIR PRESSURE 压力传感器

For indication.

用于压力指示。

POS.206:SENSOR FOR EXHAUST VALVE AIR SPRING 压力传感器

Give signals to ECS for indication,alarm and control.

送信号至ECS用于压力指示,报警及控制。

POS.207:BALL VALVE 球阀

For manual cutting-off of control air supply to main starting valve.

手动切断主起动机控制空气气源。

POS.208:SHUT-OFF VALVE 球阀

For manual cutting-off of control air to EGB.

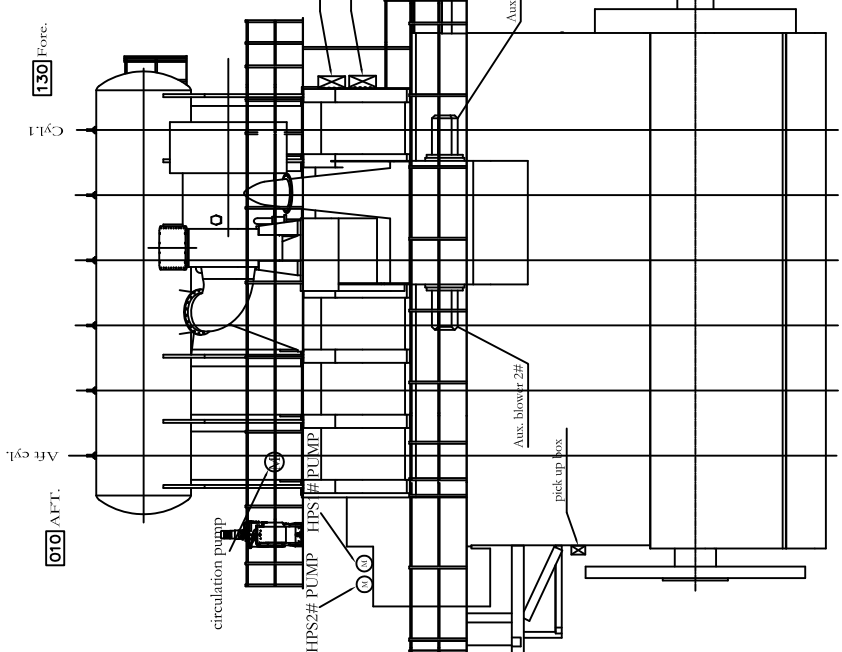
手动切断EGB进气。

POS.215:SHUT-OFF VALVE 球阀

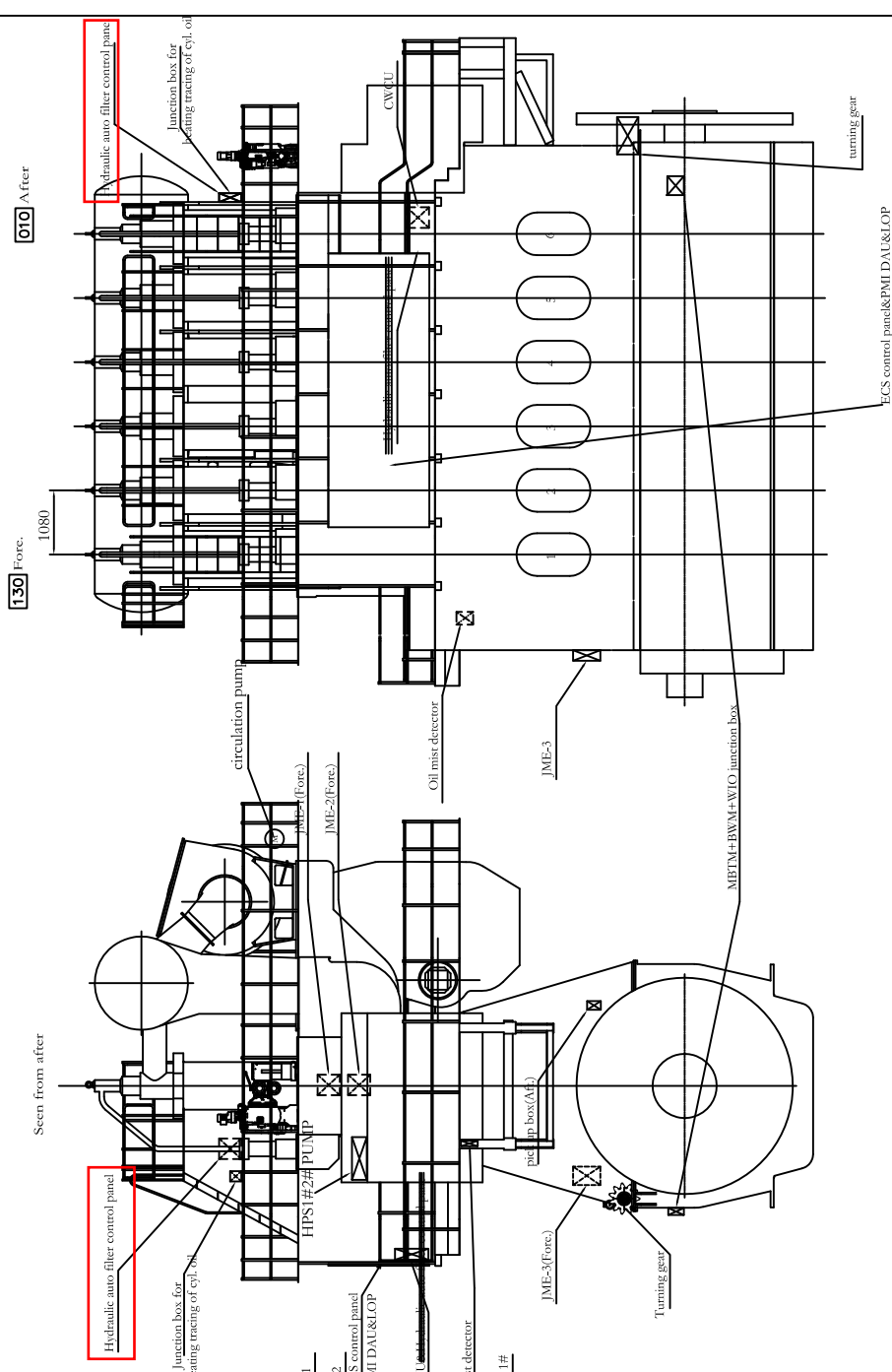
For manual cutting-off of control air to filter.

手动切断自清滤器进气。

文件说明 Document Remarks	机 型 Eng. Type	CMD-MAN-B&W 6G60ME-C9.5				
109,999 DWT OIL TANKER-HPSCR	台 份 Set No.	44#45#46#47#				
	工程编号 Engine No.					
	船 厂 Shipyard	NTS				
	船 号 Hull No.	0311117/18/19/20				
	船级社 Classification Society	ABS				
CMD-MAN B&W 6G60ME-C MK9.5 JUNCTION BOX COONECTION EL. DIAGRAM 2. 接线箱接线图						
						5
						4
						3
Page 2:The positon of Hydraulic auto filter control panel is changed according to owner's requirement.						2
Page14:Delete TE8605, TE8608.						1
修 改 说 明 Corrected Description						
						5
						4
						3
王勇 20180206	侯冻 20180206	刘闯 20180206				2
王勇 20171106	魏守刚 20171106	刘闯 20171106				1
王勇 20171016	魏守刚 20171016	刘闯 20171016				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	总页数 Total Pages	19
 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.	D6520568-2.	



- The junction box for yard's connection:
1. JME-1, JME-2, JME-3.
 2. Oil mist detector.
 3. Junction box for heating tracing of cyl. oil.
 4. ECS control panel&PMI DAU&LOP.
 5. BWMT&WIO junction box.
 6. pick up box.
 7. Hydraulic auto filter control panel.
 8. HPS_1#motor+2#motor; Aux. blower_1#motor+2#motor;
 9. turning gear, circulation pump.



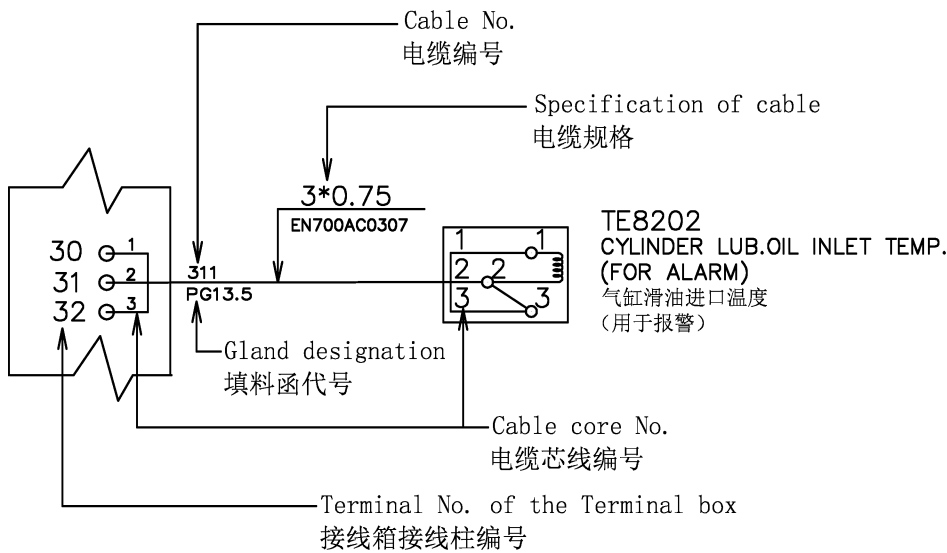
Date	Des.	Chk.	APRD.	A.C.	Revision change		CSD No.	Rev.
20180206	王勇	候冻			The position of Hydraulic auto filter control panel is changed.			
20170713	王勇	候冻			6G60MEC-NTS-N8.			
Basic Standards (M&B SB):			similar. Drawing No.:					00
EN21F-m Tolerances			EN21C Surf. roughness					
Material / Blank:			Final User Material:			Mass (kg):		
Scale:	Size:	Product Type:	Page No.:		Projection:			
1:50	A3	6G60ME-C	01 (01)					
Info. No.:	Item Name:		ARRANGEMENT OF JUNCTION BOX			Item Id.:		
Final User Info. No.:			Final User Description:			Final User Ident. No.:		
442M			主机接线箱布置					



Plan History 文件说明		Engine Type 机型	6G60ME-C9.5		
1.图中所示电气元件均为自由状态; 2.*: 根据安保系统而定, 由船厂提供并安装; 3.HT-HIGH TEMP. HL-HIGH LEVEL LP-LOW PRESS. NF-NON.FLOW LDP-LOW DIFF.PRESS.;		Engine No 工程编号	CE0561Y		
		Yard/Hull NO 船厂/船号	江苏新时代造船有限公司 0311117~0311120		
		Classification 船级社	ABS		
CMD-MAN 6G60ME-C9.5 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	马晨佳 20171016		Drawing NO 图号	4H-19831	
Check 校对	宁军 20171016				
Examine 审核			Replaced 被替代图号		Total 总页数(含封面) 17
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					

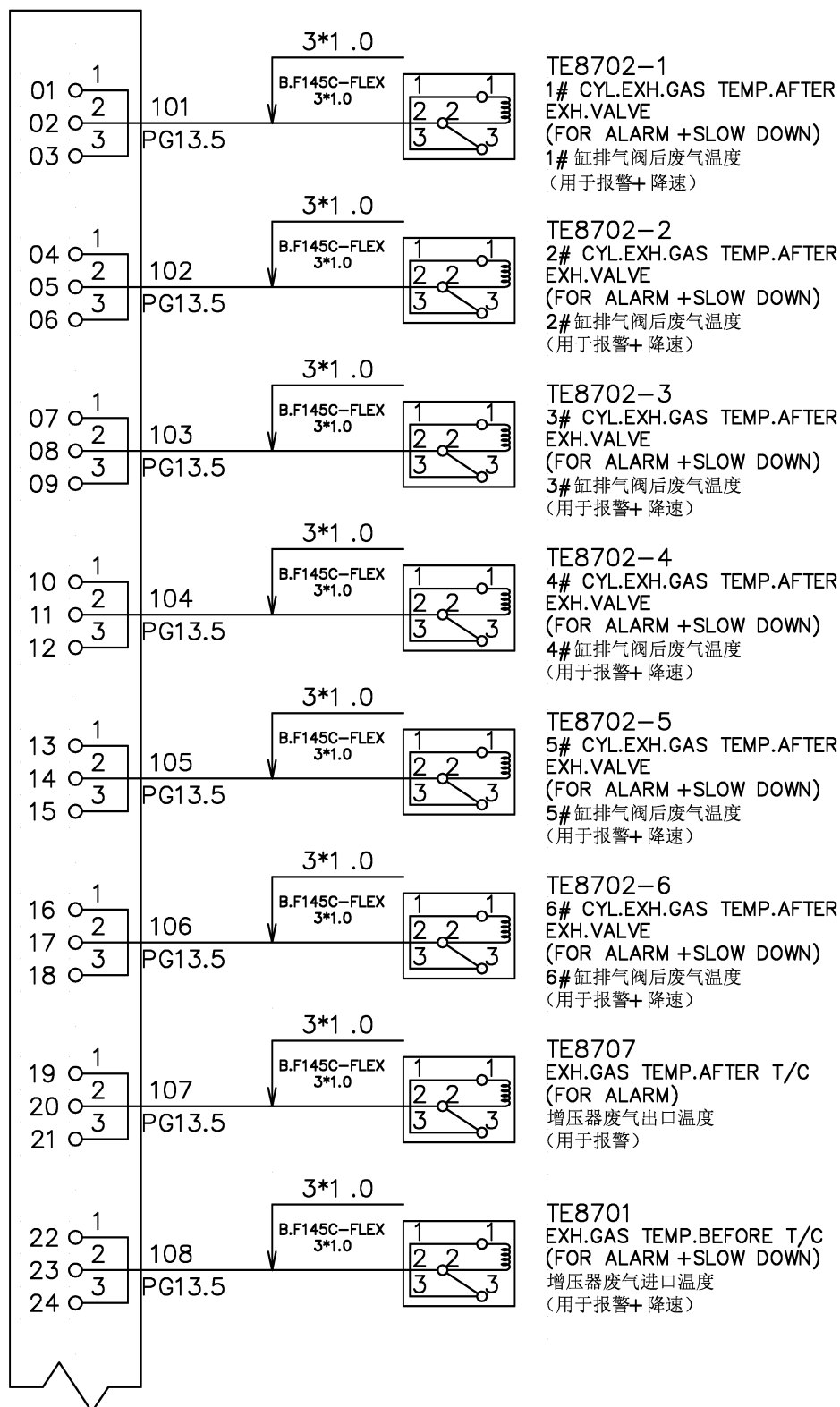
Info. No.:		Item Name: 主机电气接线图			Item Id.: 4H-19831	
Scale:	Size: A4	6G60ME-C9.5		Page No.: 02 (17)	Projection: 	MAN Diesel
Date 20171016	Des. 马晨佳	Chk. 宁军	A.C. *	Revision change CE0561Y		CSD. No. Rev. 00

Description of the junction box drawing
接线箱接线图说明



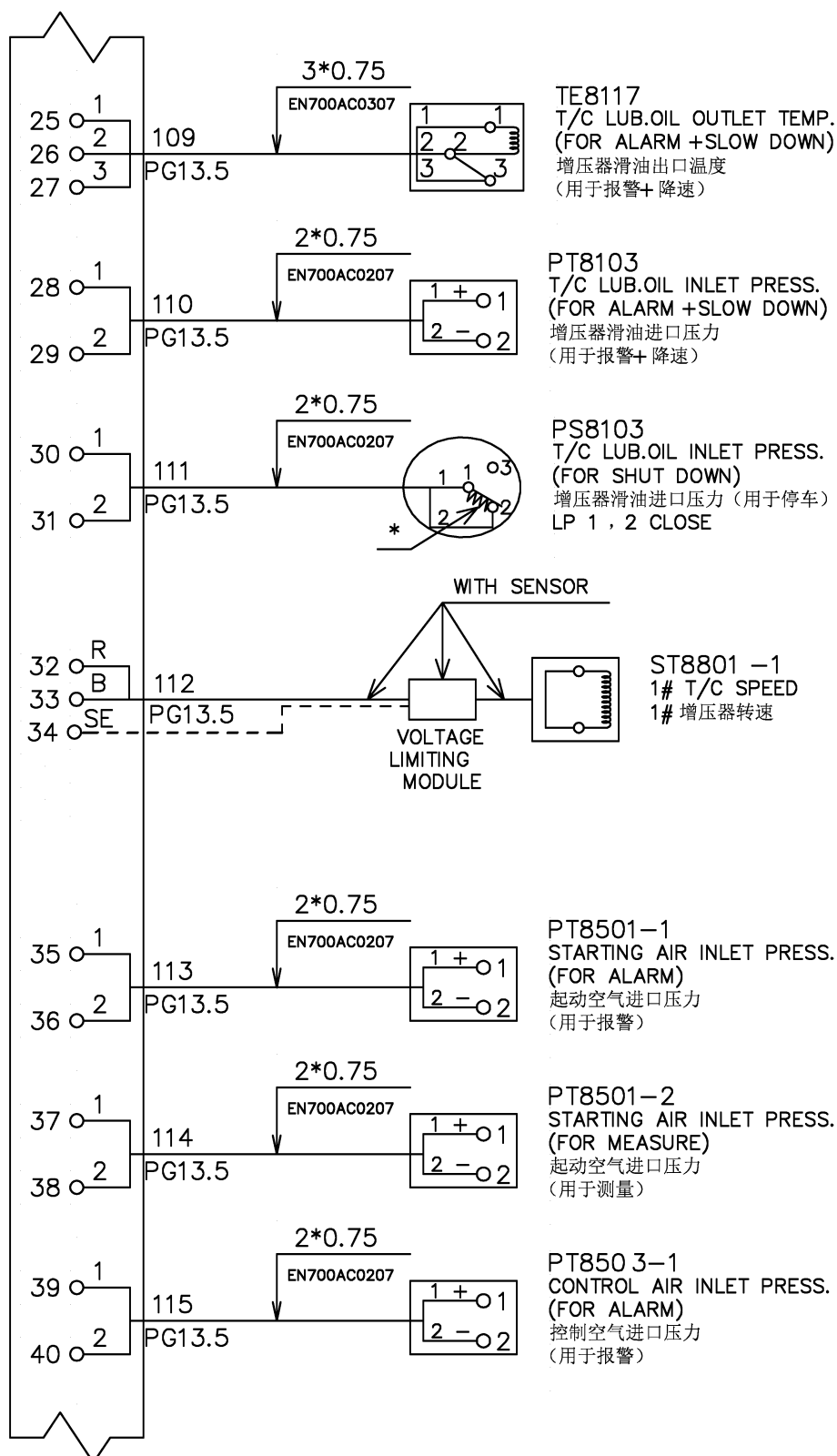
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Scale:	Size: A4	6G60ME-C9.5		Page No.: 03 (17)	Projection: 	CMD-MAN
Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-1 1/6



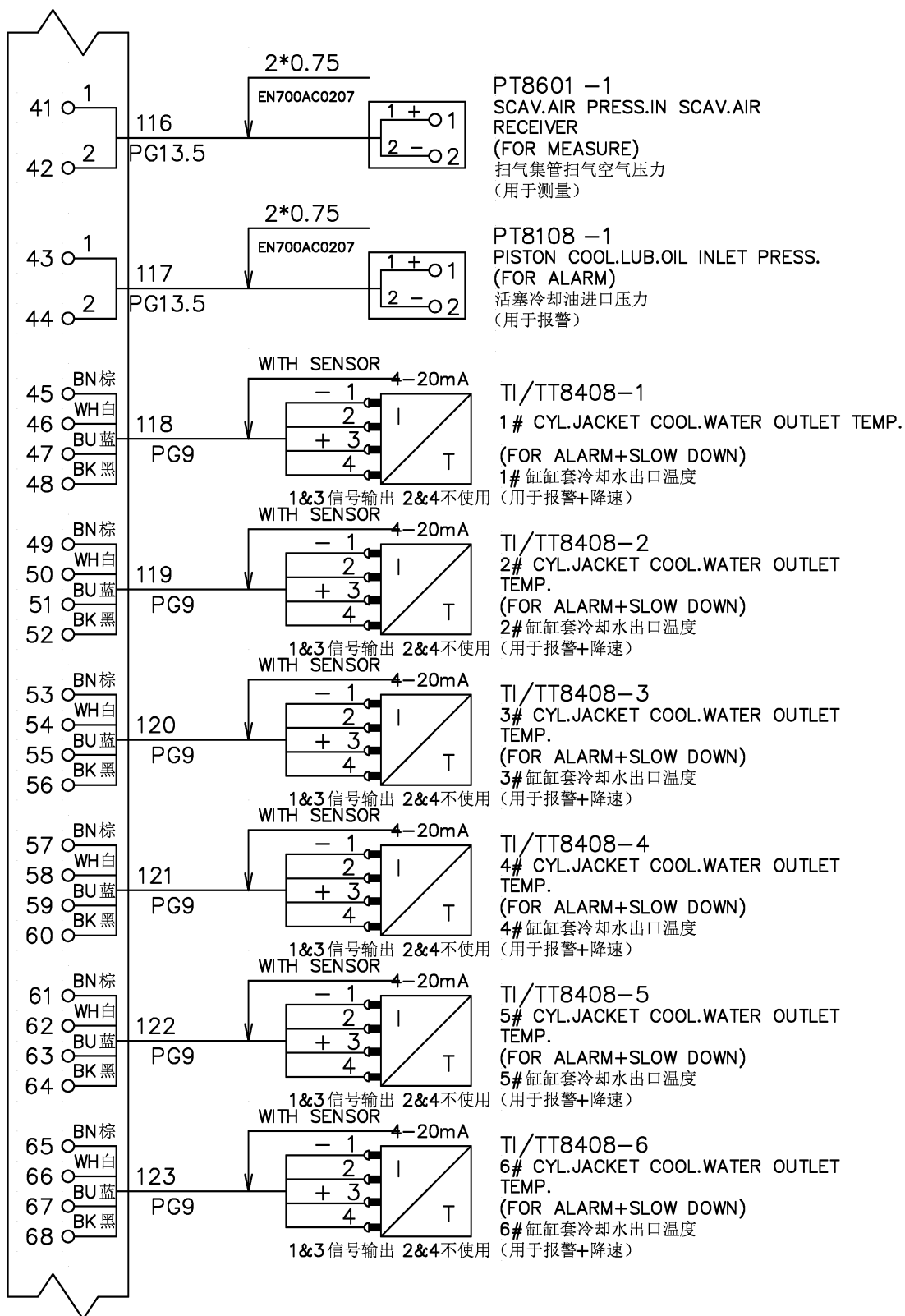
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-1 2/6



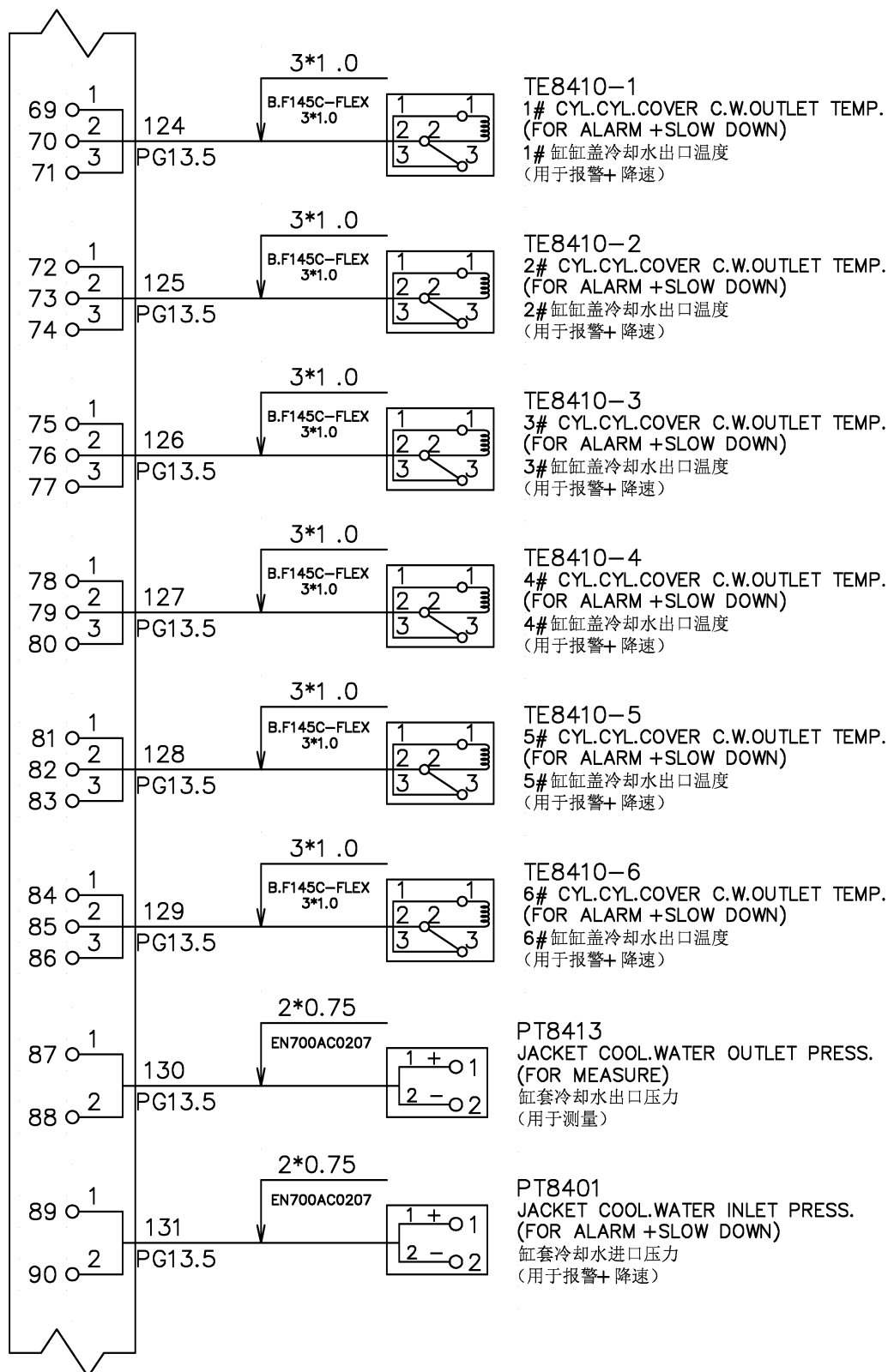
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-1 3/6



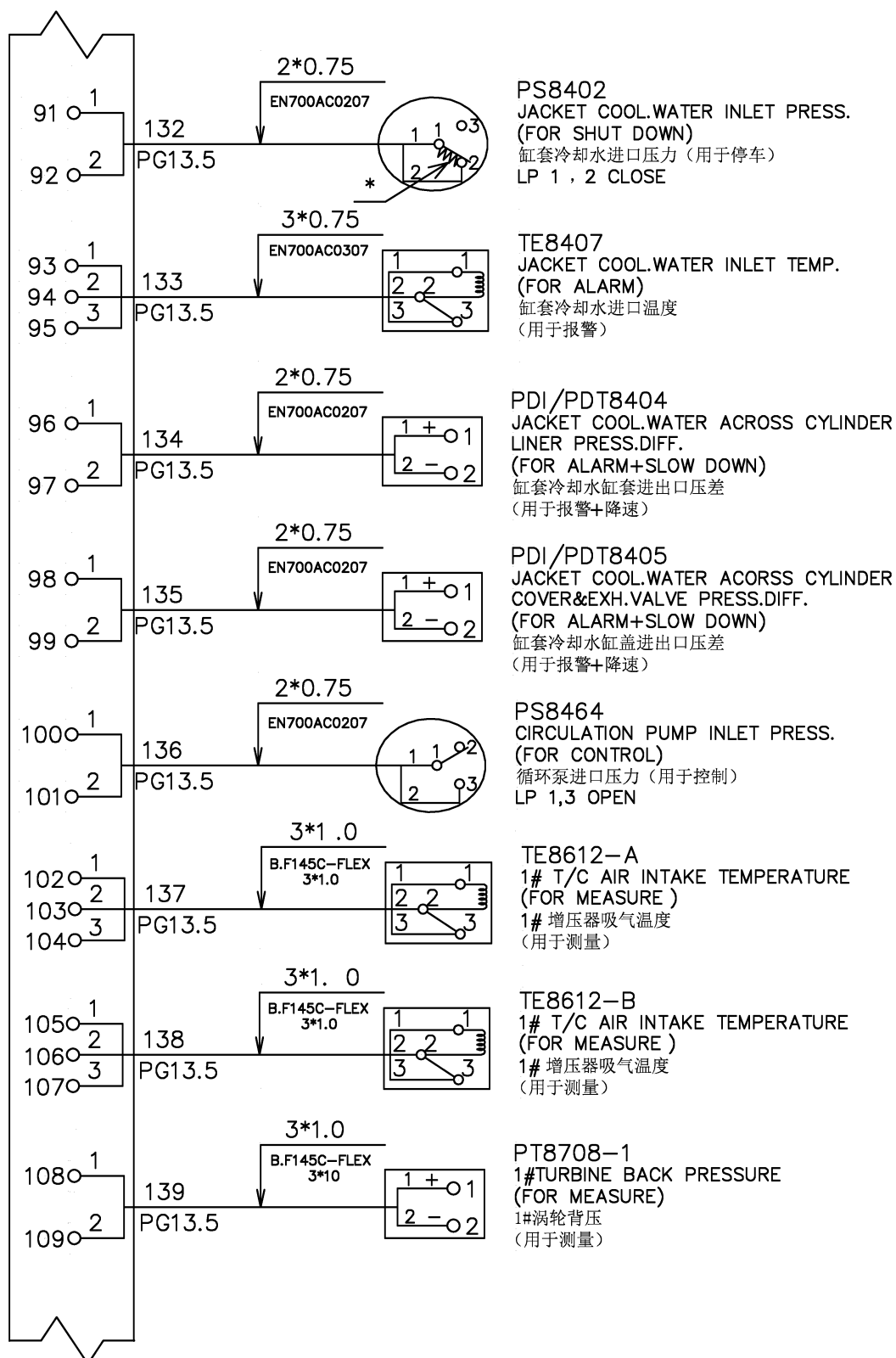
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		Rev. 00

JME-1 4/6



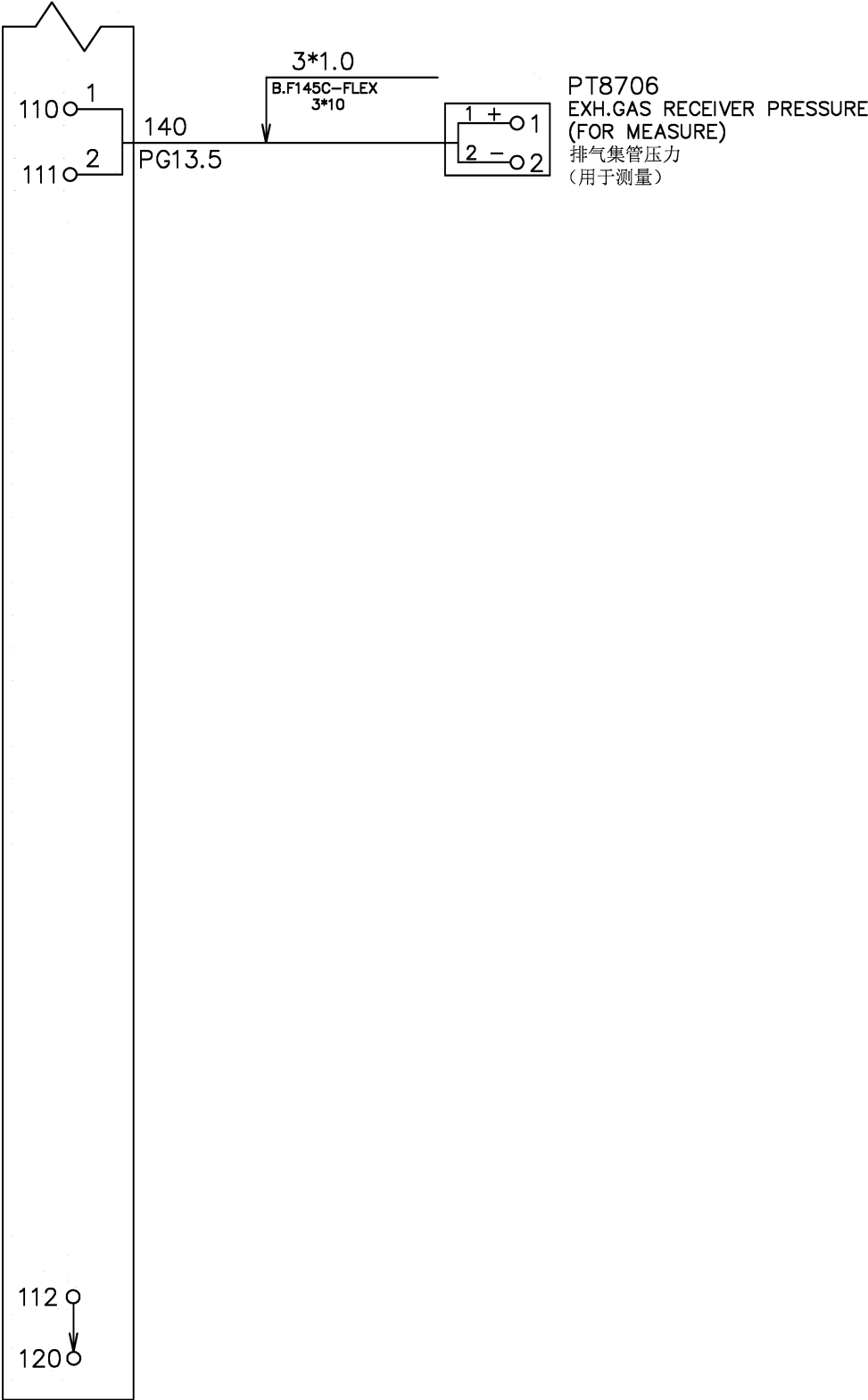
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Scale:	Size: A4	6G60ME-C9.5			Page No.: 07 (17)	Projection: 
Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-1 5/6



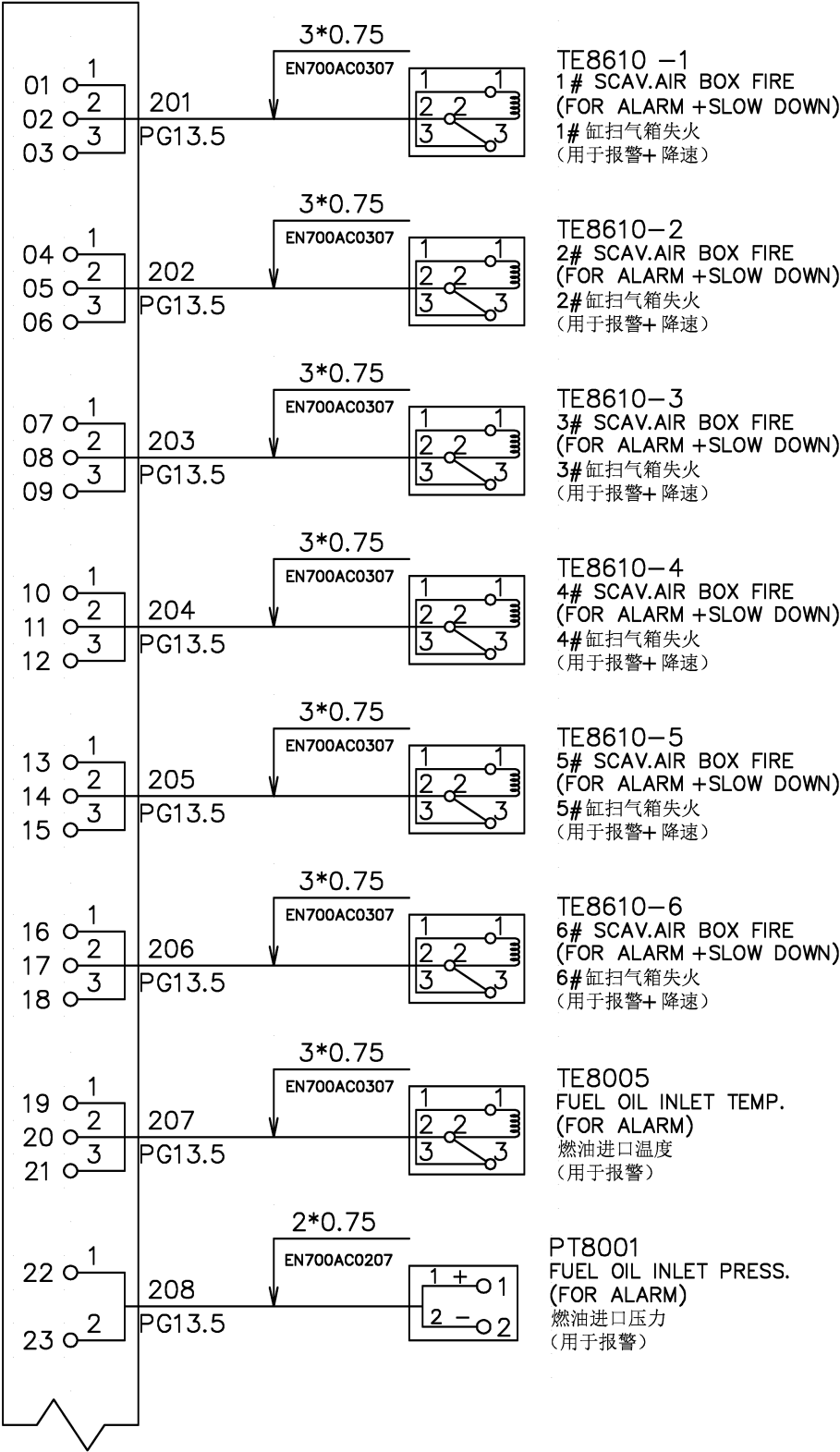
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Scale:	Size: A4	6G60ME-C9.5		Page No.: 08 (17)	Projection: 第一角投影	CMD-MAN
Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-1 6/6



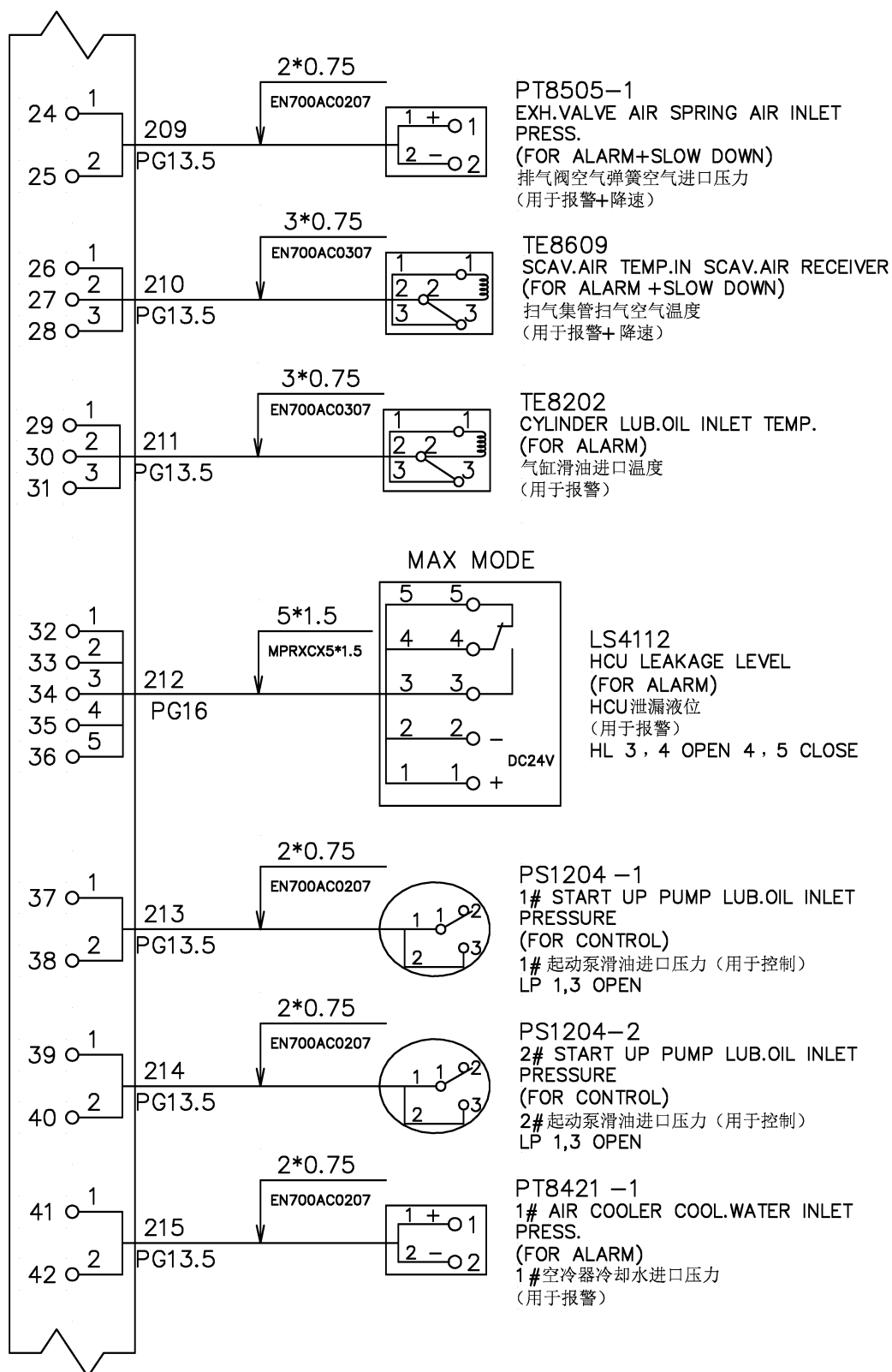
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Scale:	Size: A4	6G60ME-C9.5			Page No.: 09 (17)	Projection:
Date 20171016		Des. 马晨佳	Chk. 宁军	A.C. *	Revision change CE0561Y	CMD-MAN
					Chg. Not.	Rev. 00

JME-2 1/5



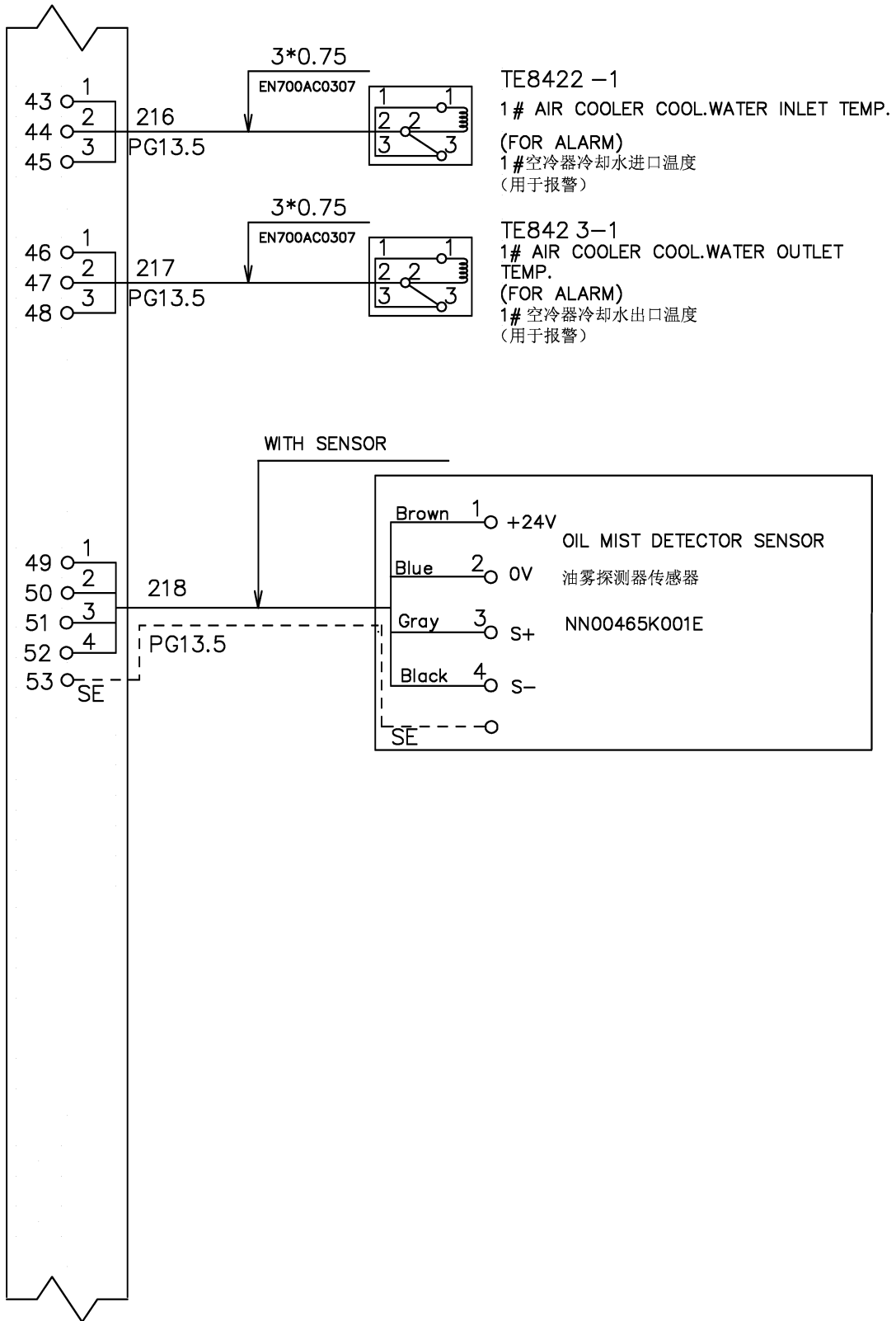
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-2 2/5



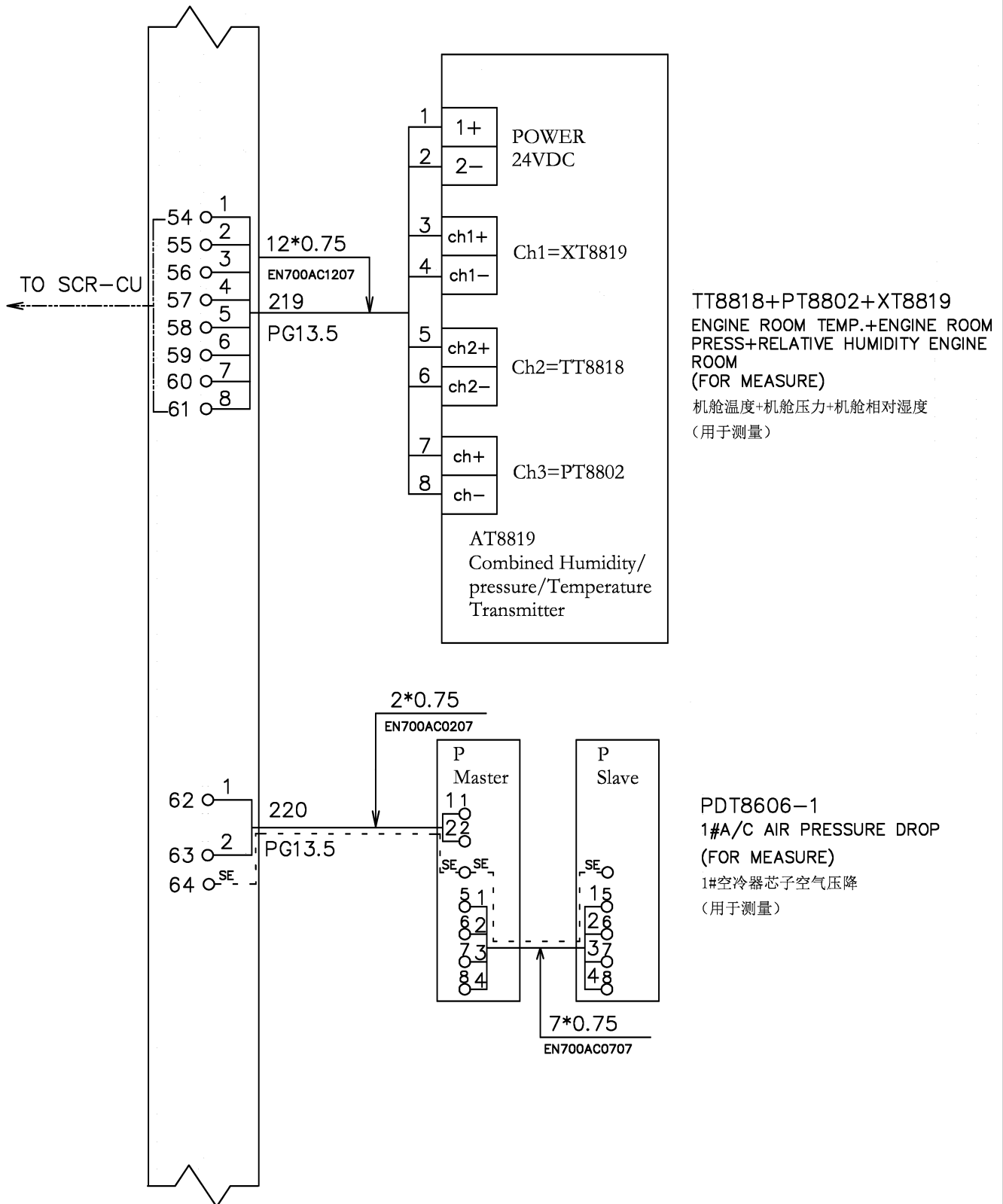
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Scale:	Size: A4	6G60ME-C9.5			Page No.: 11 (17)	Projection: 
Date: 20171016		Des.: 马晨佳	Chk.: 宁军	A.C.: *	Revision change: CE0561Y	CMD-MAN
					Chg. Not.	Rev. 00

JME-2 3/5



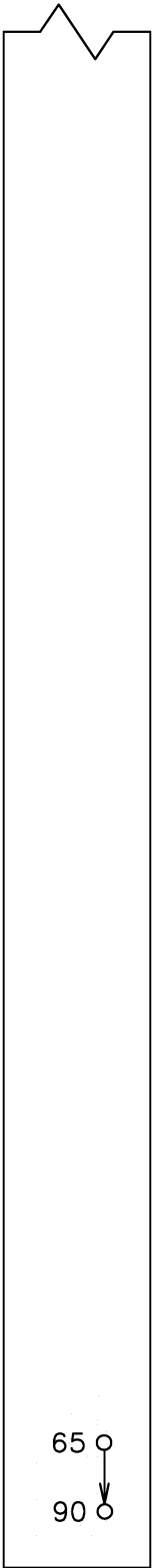
Info. No.:		Item Name: 主机电气接线图			Item Id.: 4H-19831	
Scale:	Size: A4	6G60ME-C9.5		Page No.: 12 (17)	Projection: 	CMD-MAN
Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-2 4/5



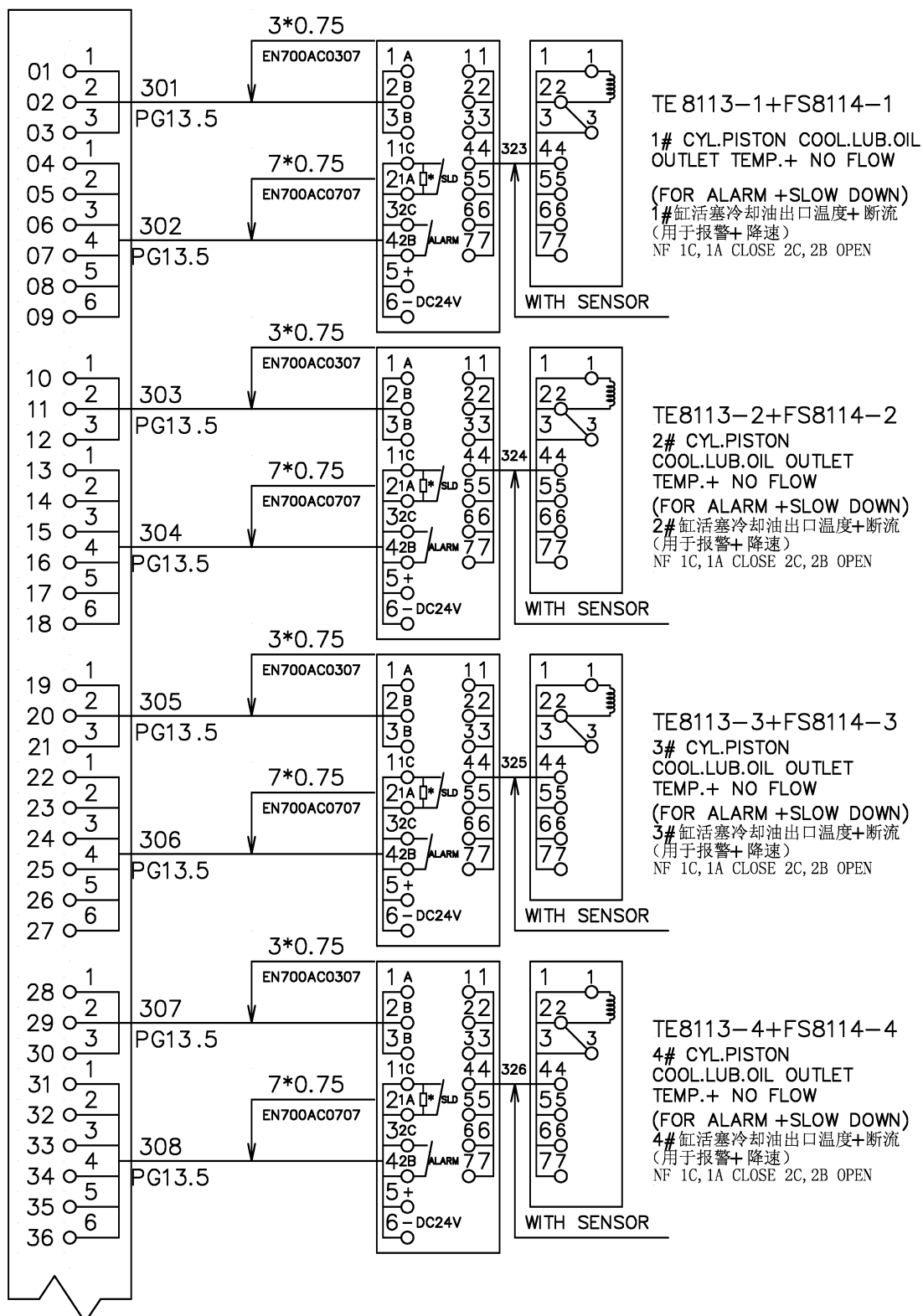
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Date		Des.	Chk.	A.C.	Revision change	
20171016		马晨佳	宁军	*	CE0561Y	
					Chg. Not.	Rev.
						00

JME-2 5/5



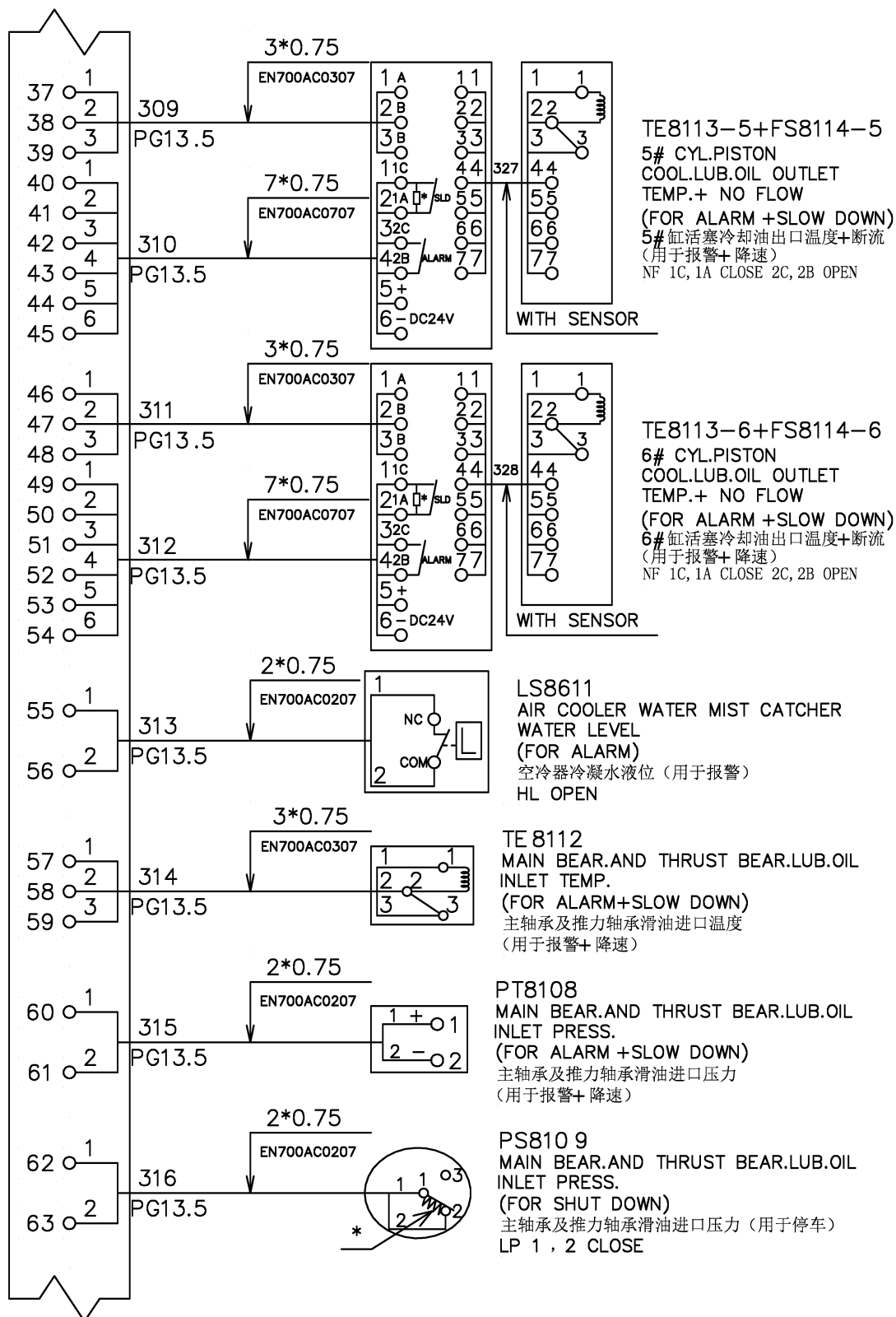
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-3 1/4



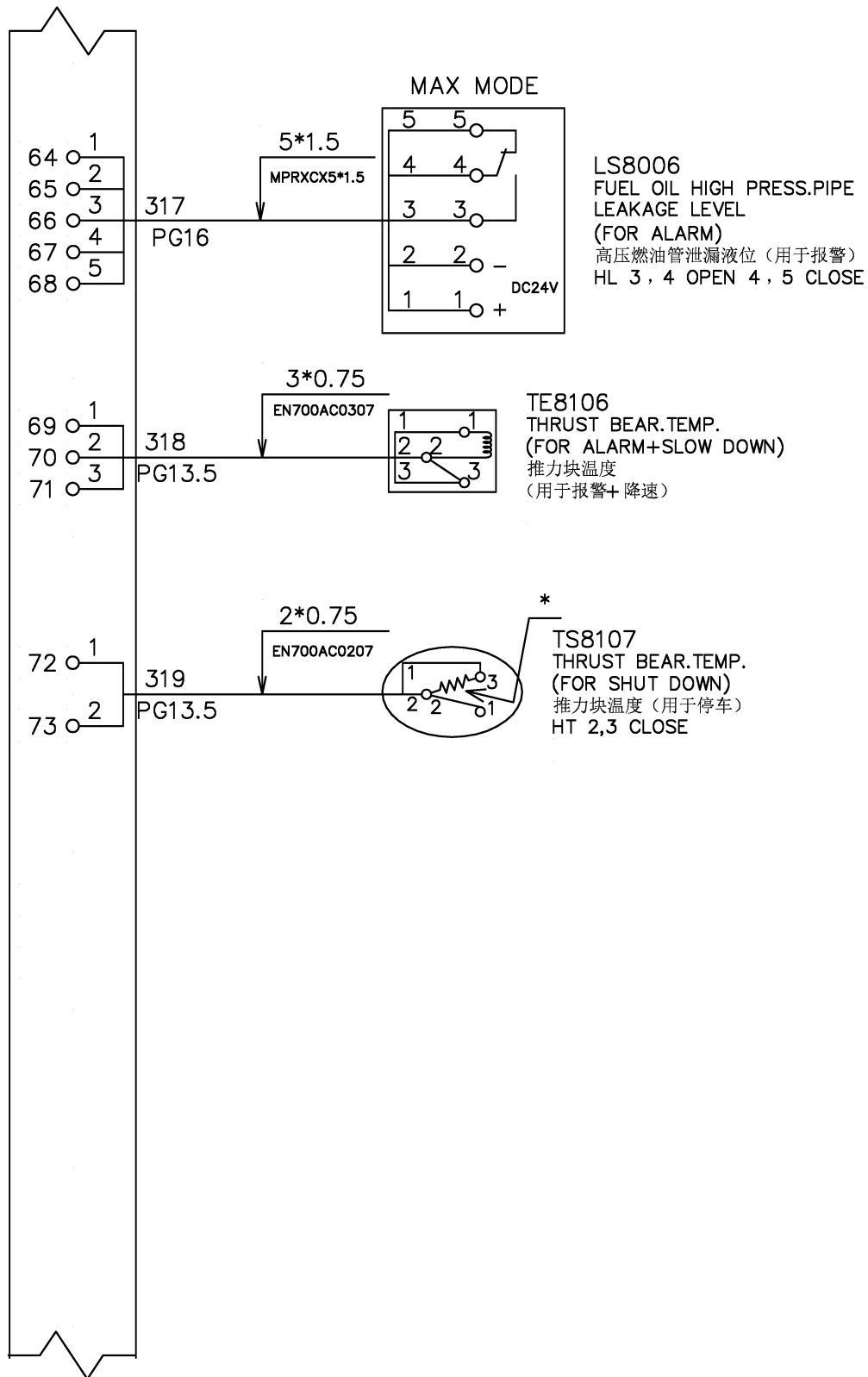
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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-3 2/4



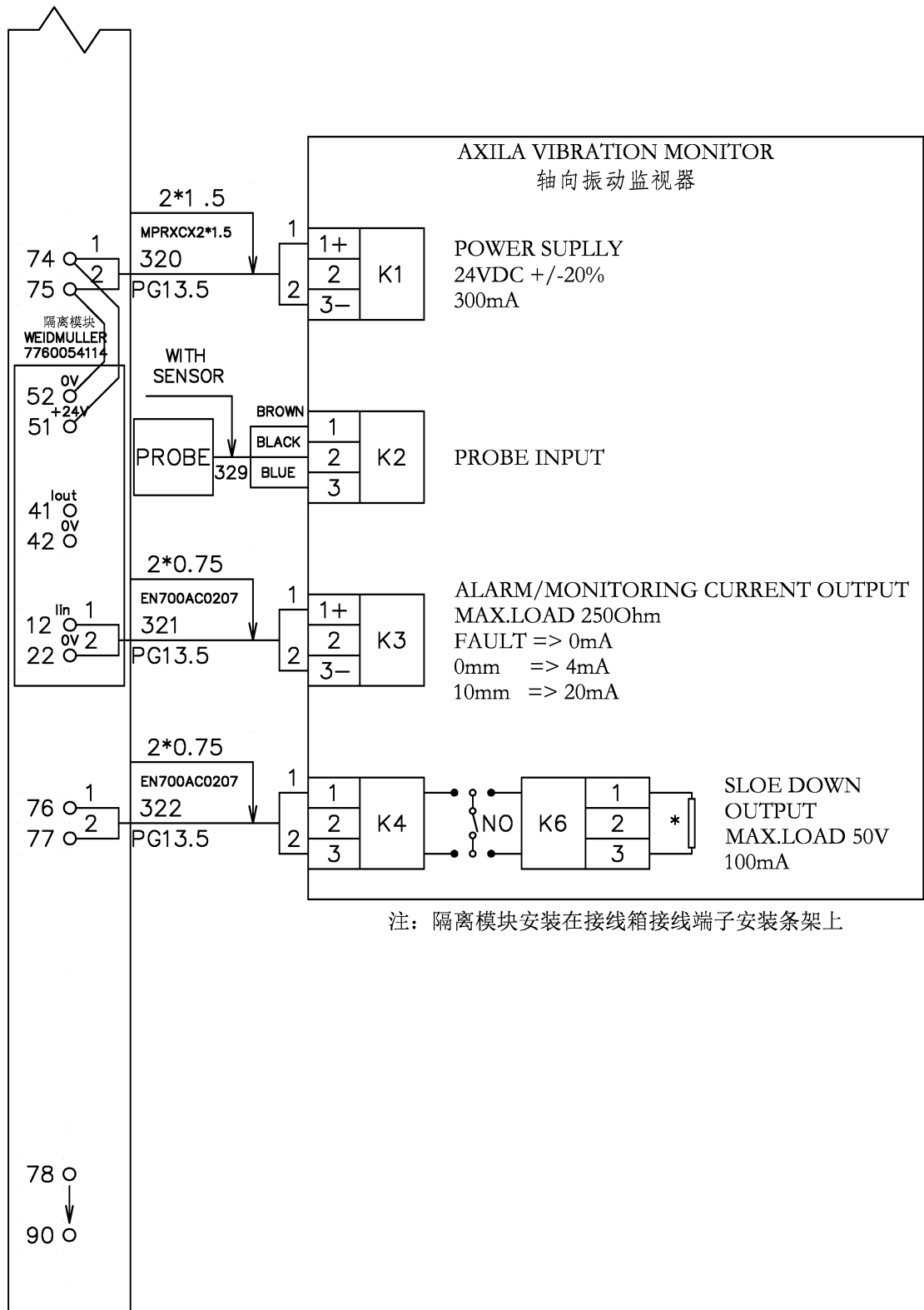
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Scale:	Size: A4	6G60ME-C9.5		Page No.: 16 (17)	Projection: 	CMD-MAN
Date	Des.	Chk.	A.C.	Revision change		Chg. Not.
20171016	马晨佳	宁军	*	CE0561Y		00

JME-3 3/4



Info. No.:		Item Name: 主机电气接线图			Item Id.: 4H-19831	
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Date 20171016		Des. 马晨佳	Chk. 宁军	A.C. *	Revision change CE0561Y	Chg. Not. Rev. 00

JME-3 4/4



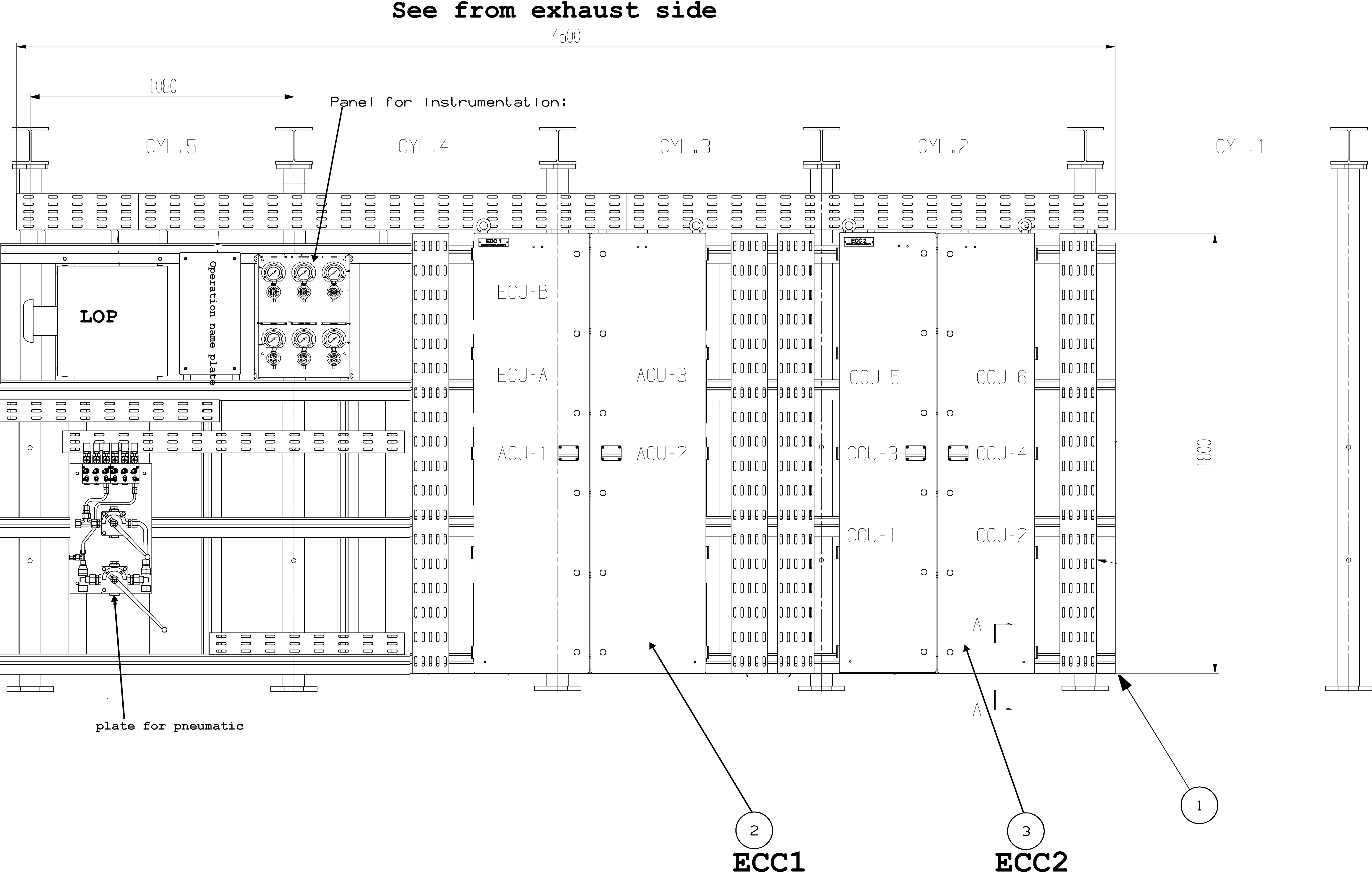
注：隔离模块安装在接线箱接线端子安装条架上

文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5		
HPSCR		台 份 Set No.				
		工程编号 Engine No.				
		船 厂 Shipyard		NTS		
		船 号 Hull No.		0311113/14/15/16/17/18/19/20		
		船级社 Classification Society		ABS		
CMD-MAN B&W 6G60ME-C MK9.5 ECS WIRING 3. 控制系统接线图						
						5
						4
						3
						2
						1
修 改 说 明 Corrected Description						
						5
						4
						3
						2
						1
易志银 20170308	王勇 20170308	杜清 20170308				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
 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.	D6519800-3.	

ECS SYS. LIST

NO.	DESCRIPTION	DRG. NO	REMARK
1	ENGINE CONTROL SYSTEM	5259872-6.1	install plan
2	NETWORK	5633649-5.3 0787478-1.5	connection drawing
3	ENGINE CONTROL	5561674-4.7	connection drawing
4	ENGINE CONTROL-EICU A&B	5260735-3.2	POS101 of chapter E-1
5	CABLES, MOUNTING INSTR.	0788967-5.3	Instruction doc.

5259872-6.1
install plan



- ① : Steel frame for cabinets.
- ② : Cabinet for ECU/ACU.
- ③ : Cabinet for CCU, up to 8 pcs MPC 10 each.
- ④ : Amplifier for tacho (~~see part list~~).

drawing No.1881316-1

Managed switch with connections to:
Firewall/VPN router
EMS-MOP, MOP-B, PMI DAU, ERCS-MOP and AMS.

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20150929	JYA	CAHV	X2	Ethernet switch -P2 replaced	122528	03
20150617	CAAB	CLN	Z3	ERCS-MOP added, printer remove		02
20141210	CAAB	JYA	Z3	Supply power for EMS-MOP added		01
20140702	CAAB	CLN				00
Basic Standards (MBD SB):				Suppl. Drawing No.:		
EN21F-m Tolerances EN21C Surf. roughness						
Material / Blank:				Final User Material:		Mass (kg):
Scale:	Size: A3	Product Type: ECR ETHERNET			Projection: 	Page No.: 1 (9)
Info. No.: 7B4230		Item Name: NETWORK			Item Id.: 5633649-5	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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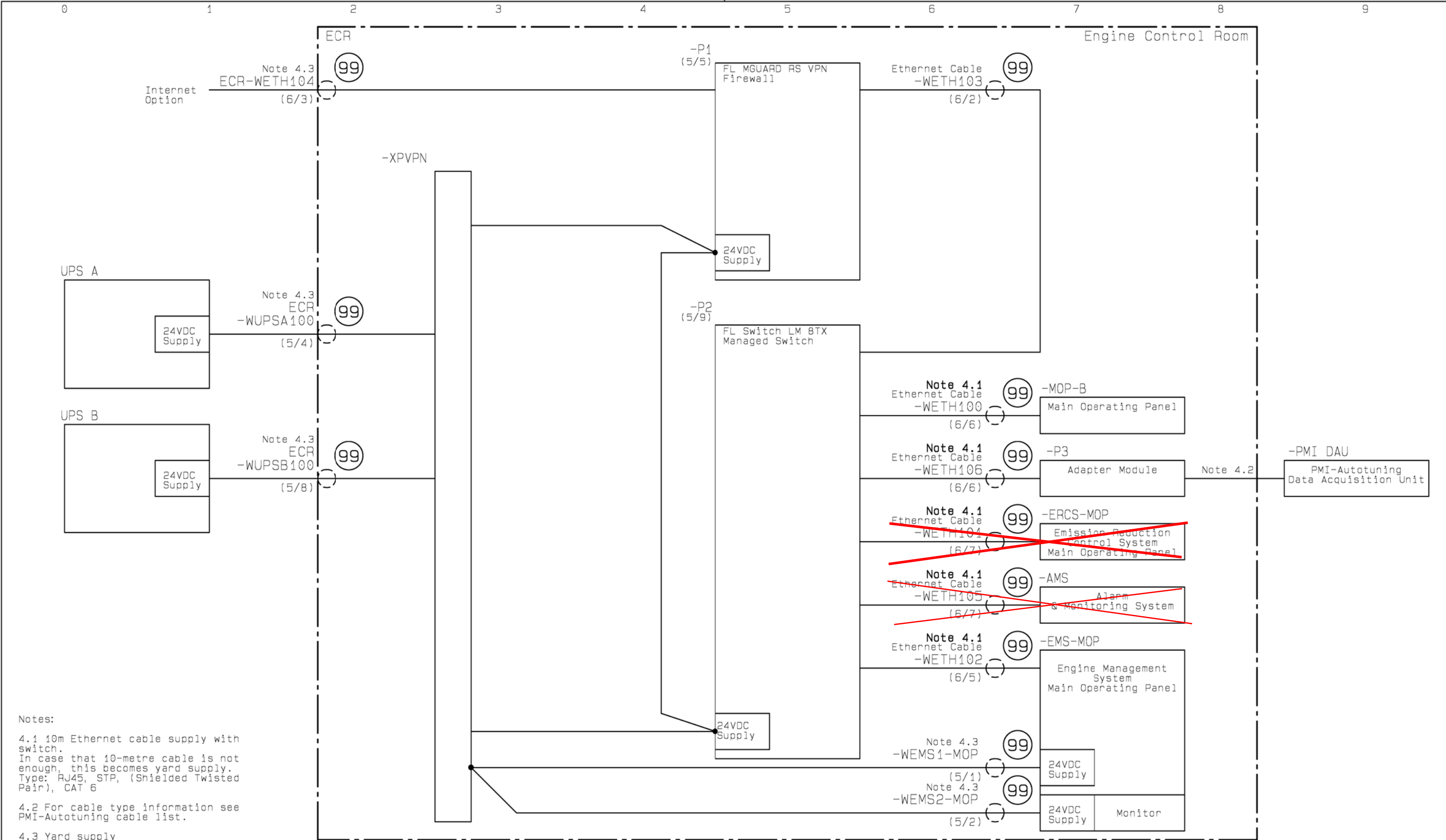
CAD Drawing - do not correct by hand - PCS Drawing

Reference Designations				Description				Reference Designations				Description			
UPS B				Uninterrupted Power Supply B											
UPS A				Uninterrupted Power Supply A											
ECR				Engine Control Room											
Reference Designations								Revision change							
20150929								JYA CAHVX2 Ethernet switch -P2 replaced							
Scale: 1: 1								Size: A3							
Product Type: ECR ETHERNET								Projection: 3 (9)							
Info. No.: 7B4230								Item Name: NETWORK							
Final User Info. No.:								Final User Description:							
Item Id.: 5633649-5								Final User Ident. No.:							

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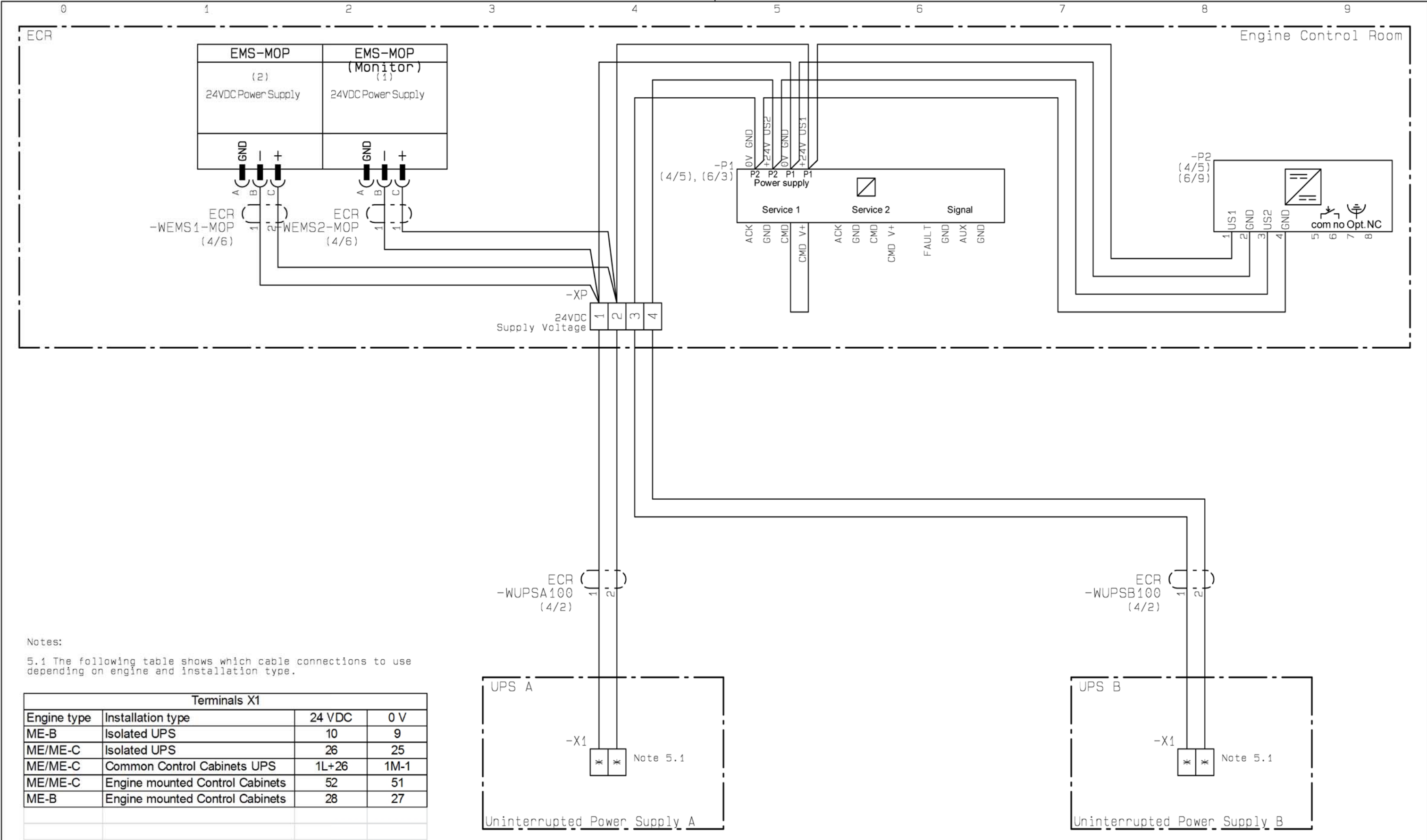
CAD Drawing - do not correct by hand - PCS Drawing



Network Topology	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20150929		JYA	CAHV	X2	Ethernet switch -P2 replaced	122528	03
	Scale: 1: 1	Size: A3	Product Type: ECR ETHERNET				Projection: 	Page No.: 4 (9)
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:	

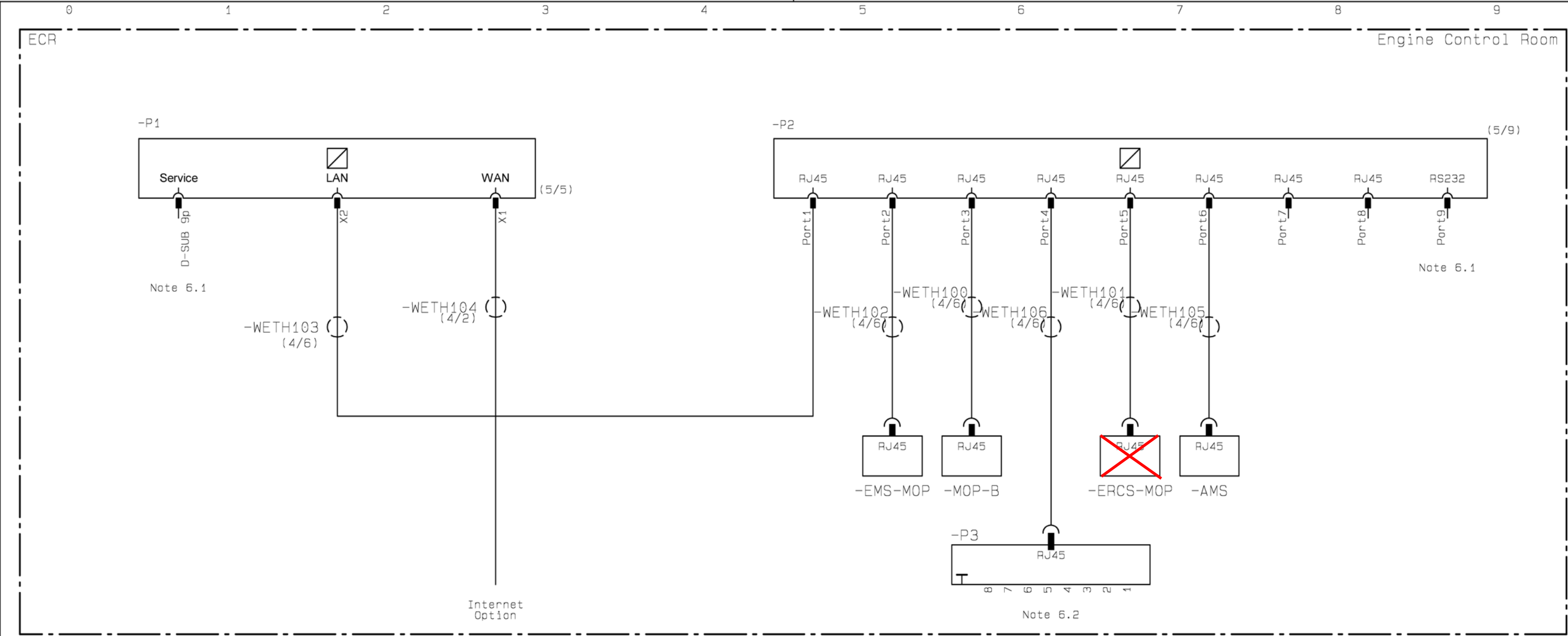


CAD Drawing - do not correct by hand - PCS Drawing



Power Connections	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20150929	JYA	CAHVX2		Ethernet switch -P2 replaced	122528	03
	Scale: 1: 1	Size: A3	Product Type: ECR ETHERNET			Projection:	Page No.: 5 (9)
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				Final User Info. No.:	Final User Description:	Final User Ident. No.:	





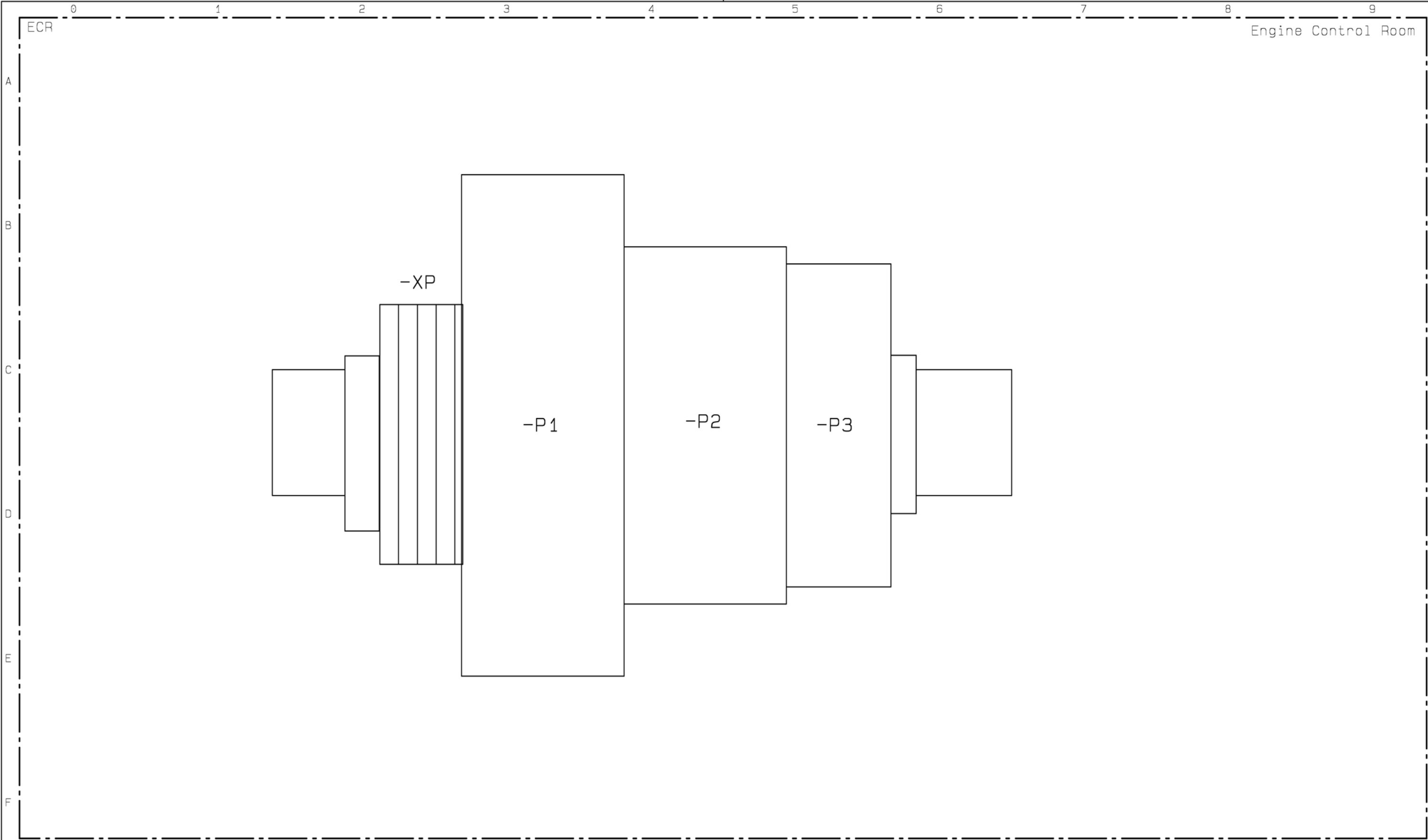
Notes:

6.1 RS-232 and D-SUB 9P plugs are for service use only.

6.2 For connection informations see PMI-Autotuning connection diagram.

Ethernet Connections	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20150929	JYA	CAHV	X2	Ethernet switch -P2 replaced	122528	03
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	Info. No.: 7B4230	Item Name: NETWORK			Item Id.: 5633649-5		
Final User Info. No.:		Final User Description:				Final User Ident. No.:	





Layout	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20150929	JYA	CAHVX2		Ethernet switch -P2 replaced	122528	03
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	Info. No.: 7B4230	Item Name: NETWORK			Item Id.: 5633649-5		
Final User Info. No.:		Final User Description:				Final User Ident. No.:	



[illegible]

Component List

[illegible]

Components List	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev
	20150929		JYA	CAHV	X2	Ethernet switch -P2 replaced		122528	03
	Scale:	Size:	Product Type:				Projection:	Page No.:	
	1: 1	A3	ECR ETHERNET					9 (9	
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	7B4230		NETWORK				5633649-5		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

Engine Control System

FPP
MPC-10
Isolated UPS & IRM modules
2 Auxiliary Blowers
2 Start up Pumps
3 Engine Driven HPS Pumps
MBD FIVA or Bosch Rexroth FIVA
~~LDCL/LDHT~~

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
20140729	LKOL	JYA	Z3	CCU-n connections updated	-	06
20140721	LKOL	JYA	Z3	LDCL added	120624	05
20130513	CAHV	JYA				00
Basic Standards (MBD SB):				Suppl. Drawing No.:		
EN21F-m Tolerances				EN21C Surf. roughness		
Material / Blank:				Final User Material:		Mass (kg):
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 1 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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CAD Drawing - do not correct by hand - PCS Drawing

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Engine Control System

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Date	20141009	Des.	CHK.	A.C.	Revision change		Chg. Not.	Rev.
Scale:	1:1	Size:	A3	Product Type:	ME ECS 5-12 CYL		Projection:	12105907
Info. No.:	7B4200	Item Name:	ENGINE CONTROL		Item Id.:	5561674-4	Page No.:	3 (241)
Final User Info. No.:		Final User Description:			Final User Ident. No.:			

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	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 4 (241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		



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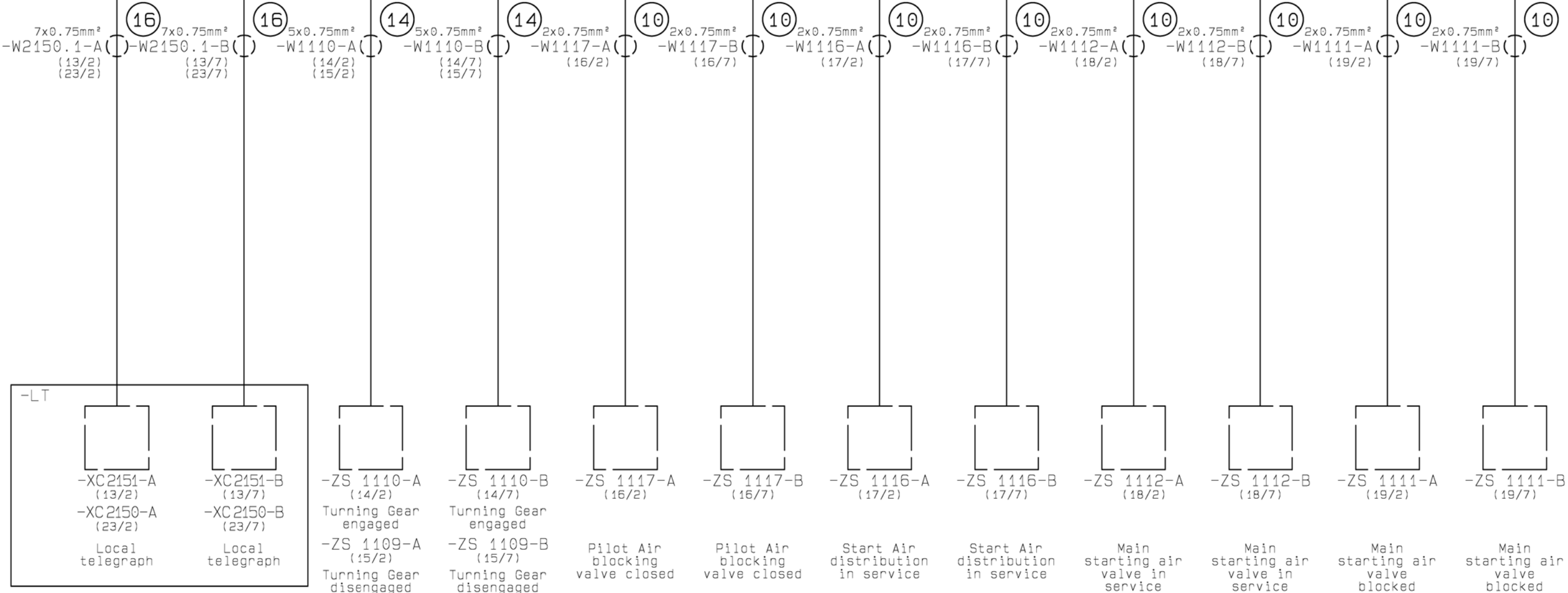
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ECC-1

Engine control system
Cabinet 1

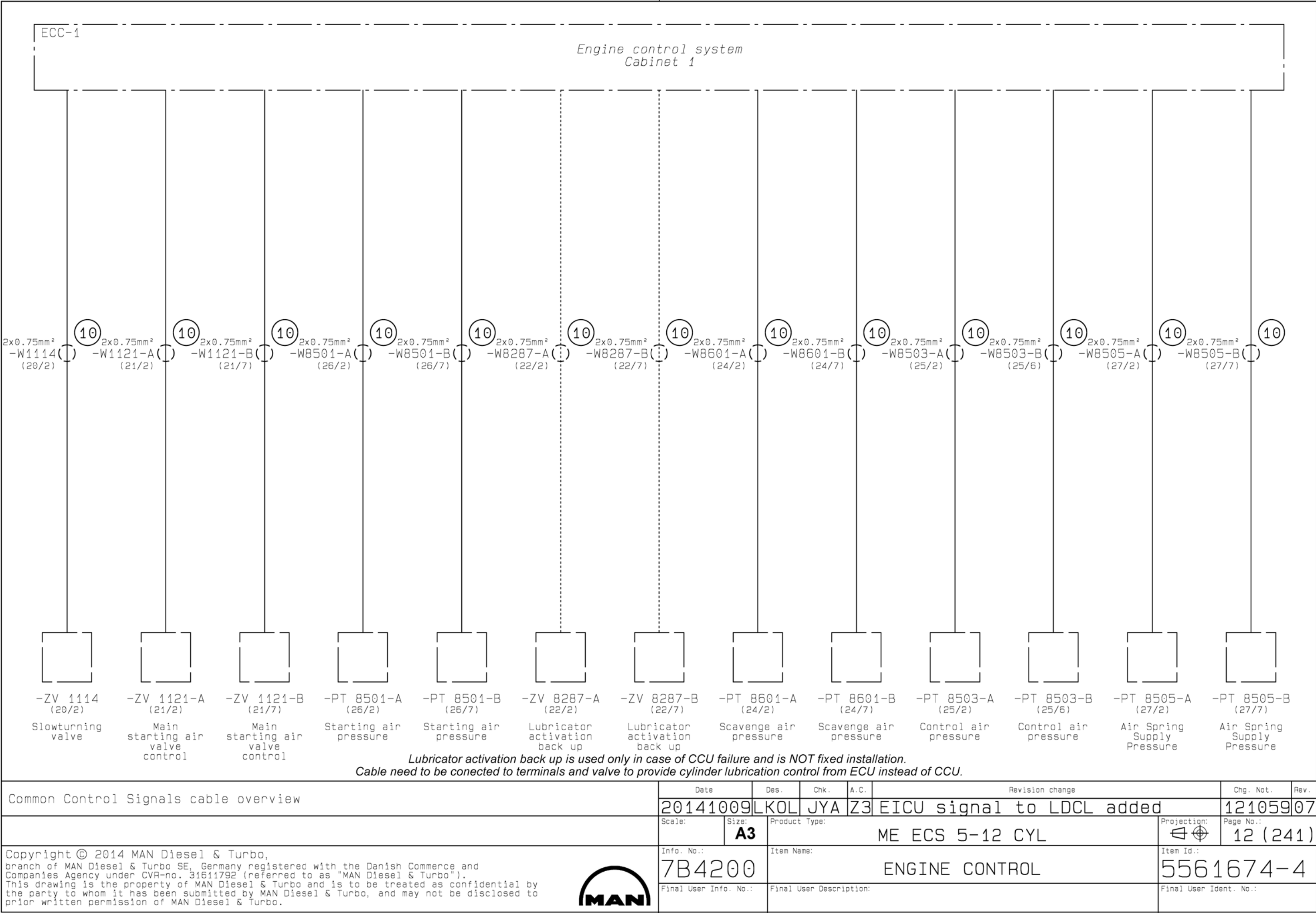


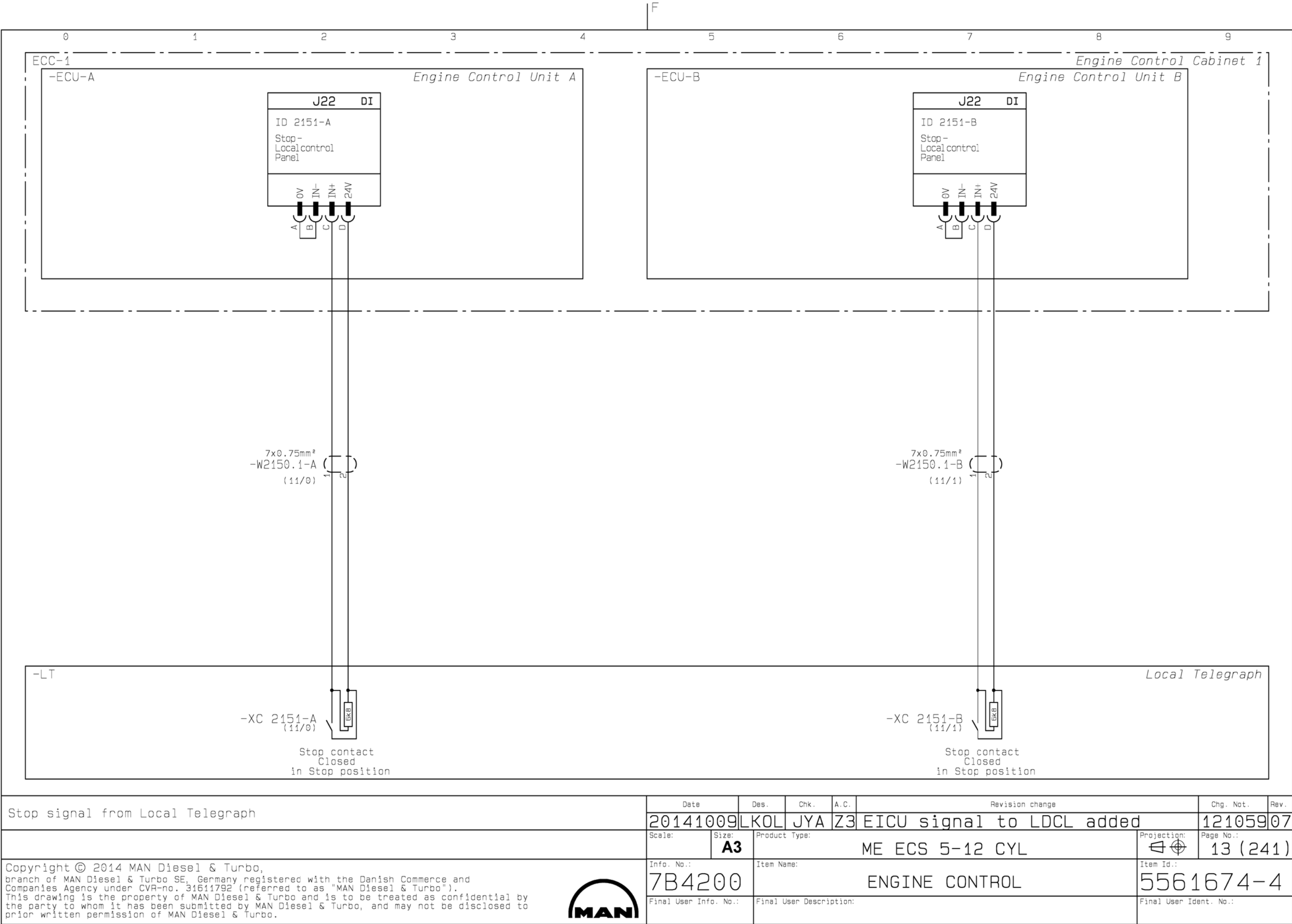
Common Control Signals cable overview

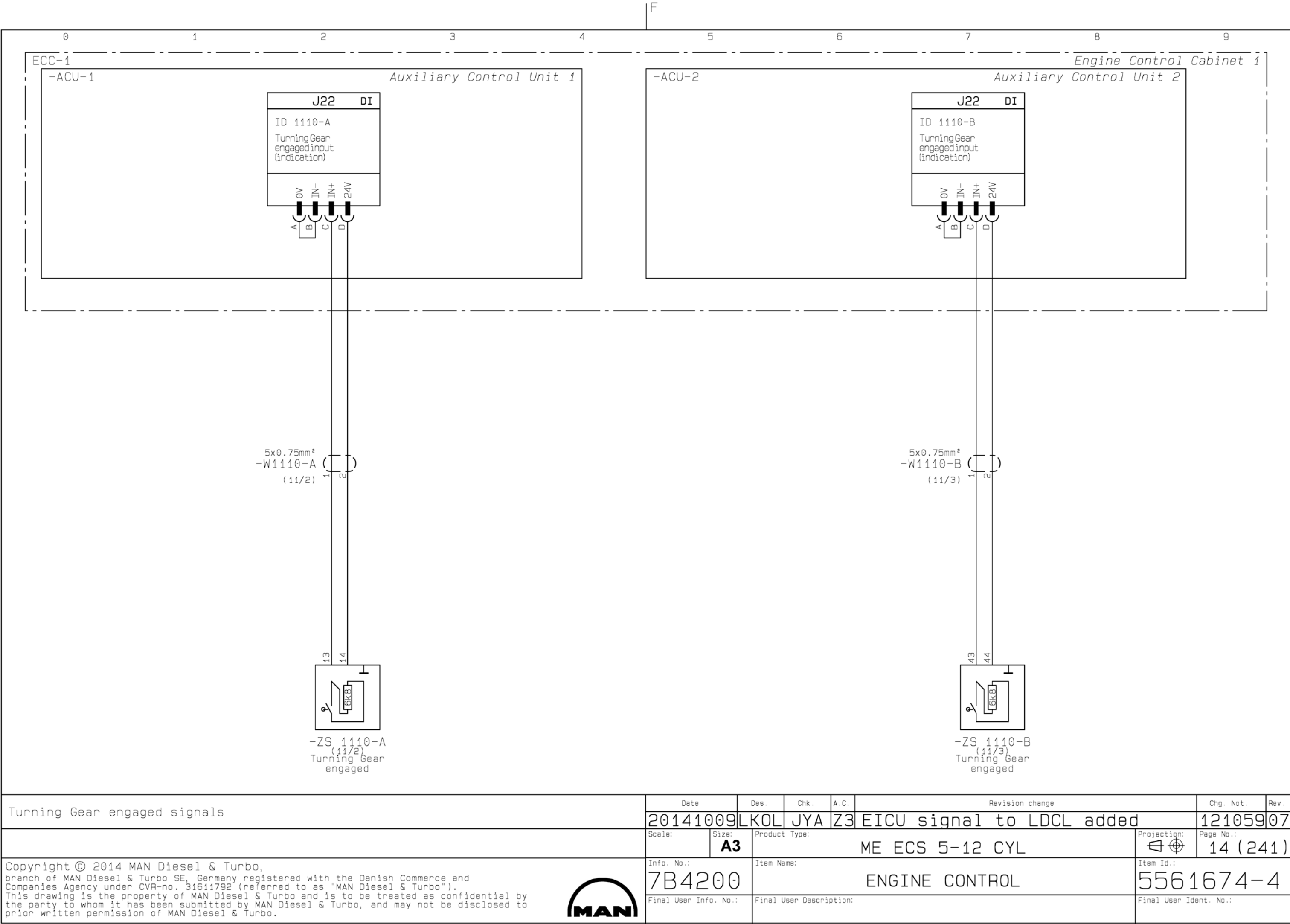
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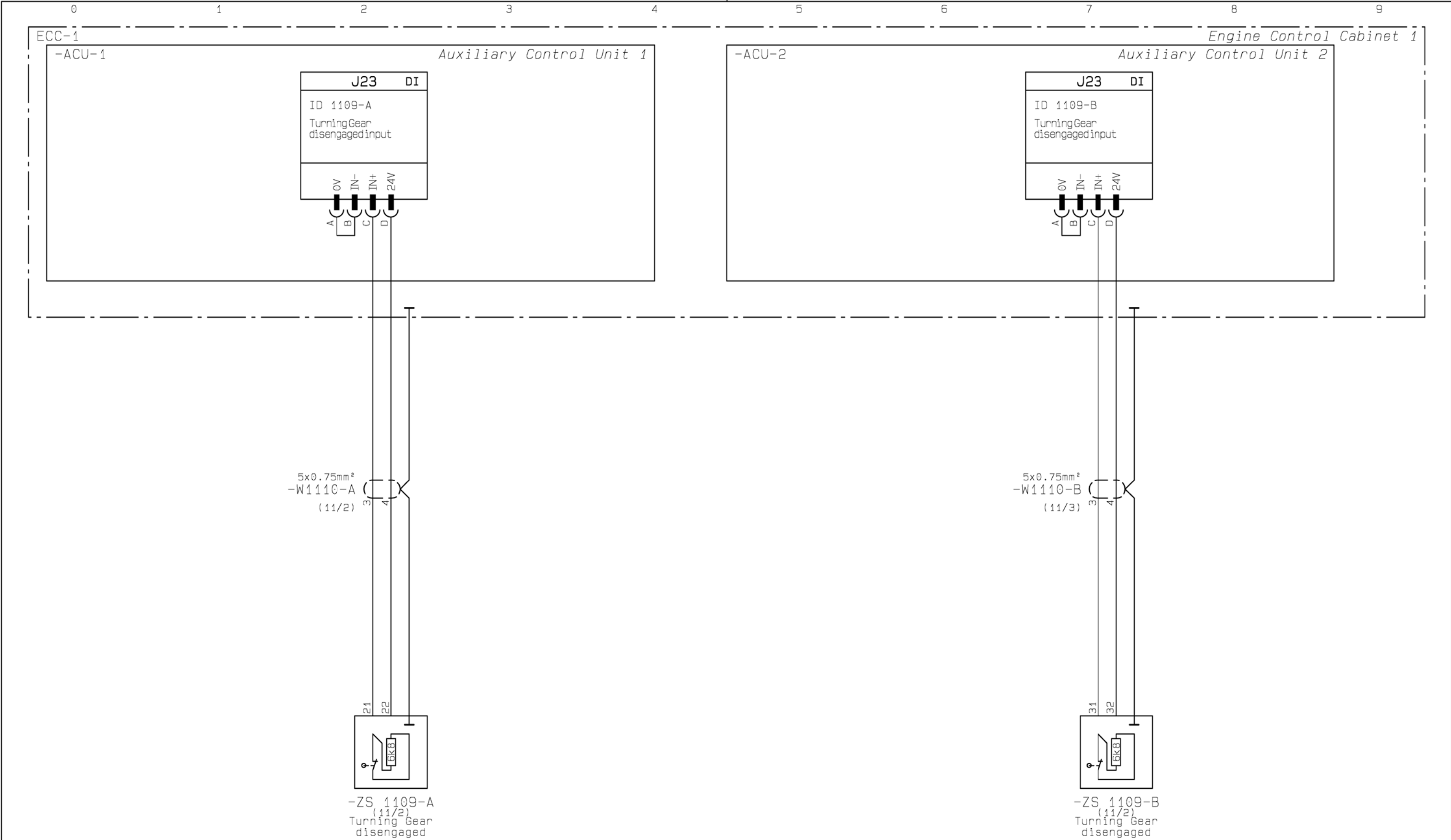
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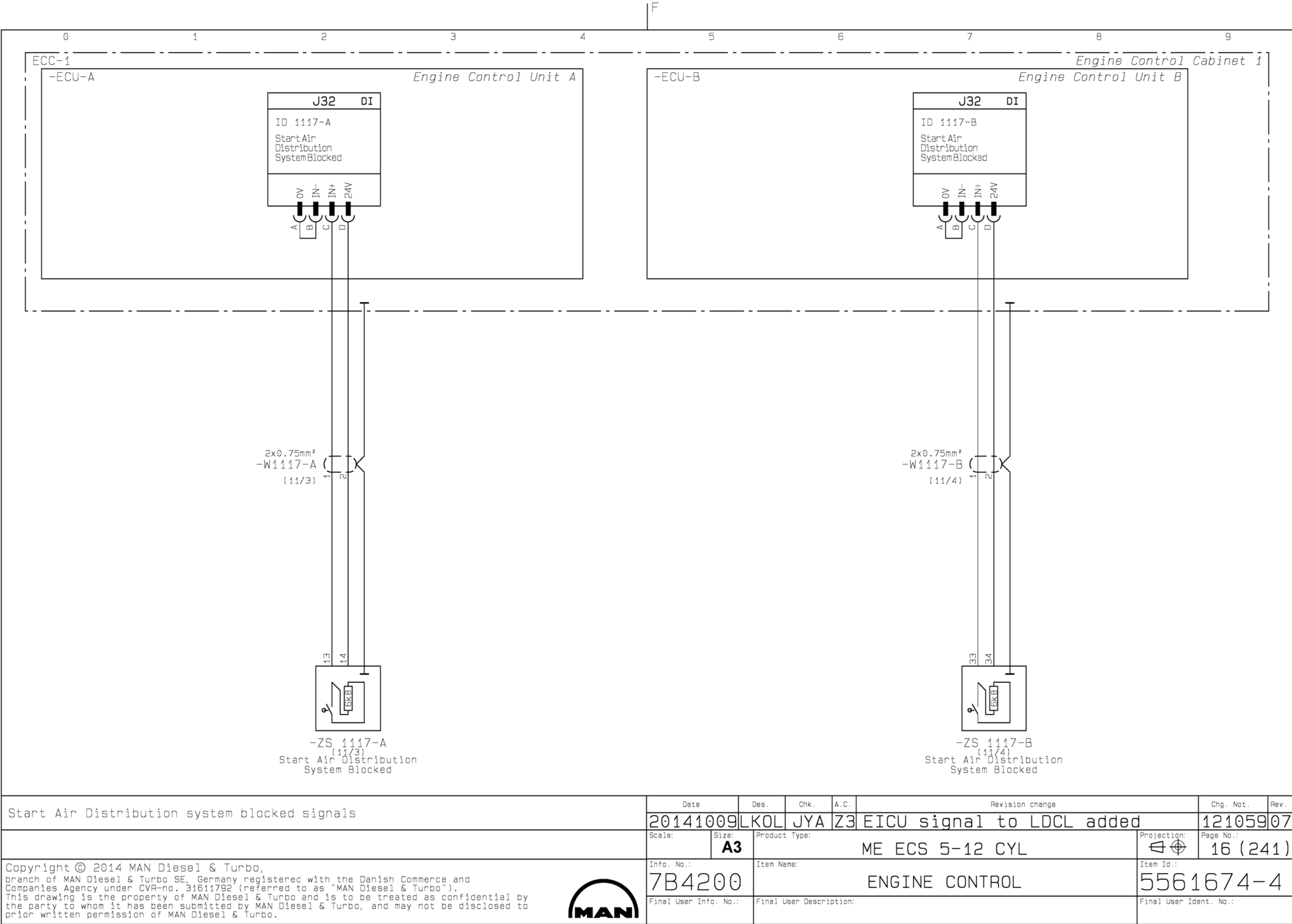


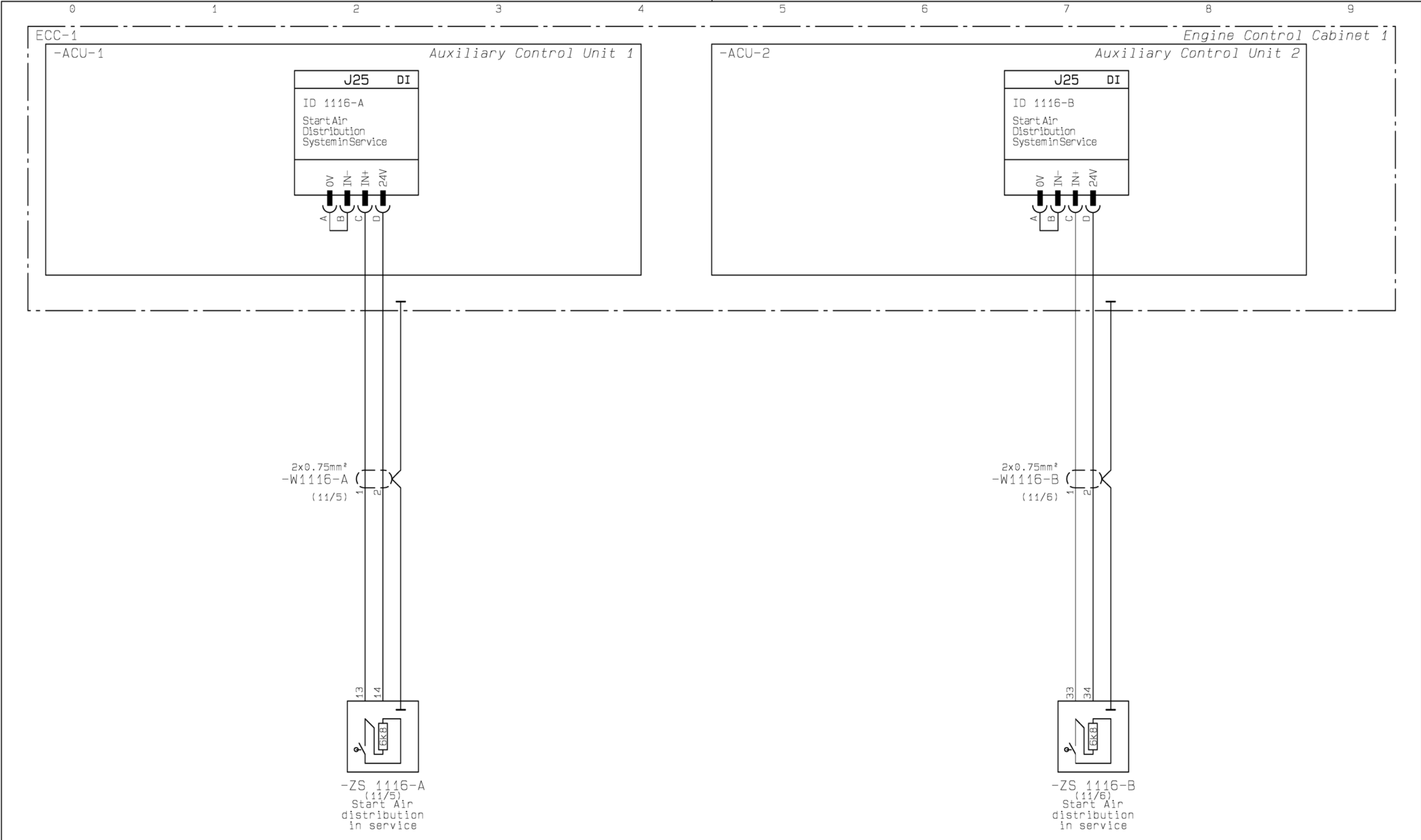




Turning Gear disengaged signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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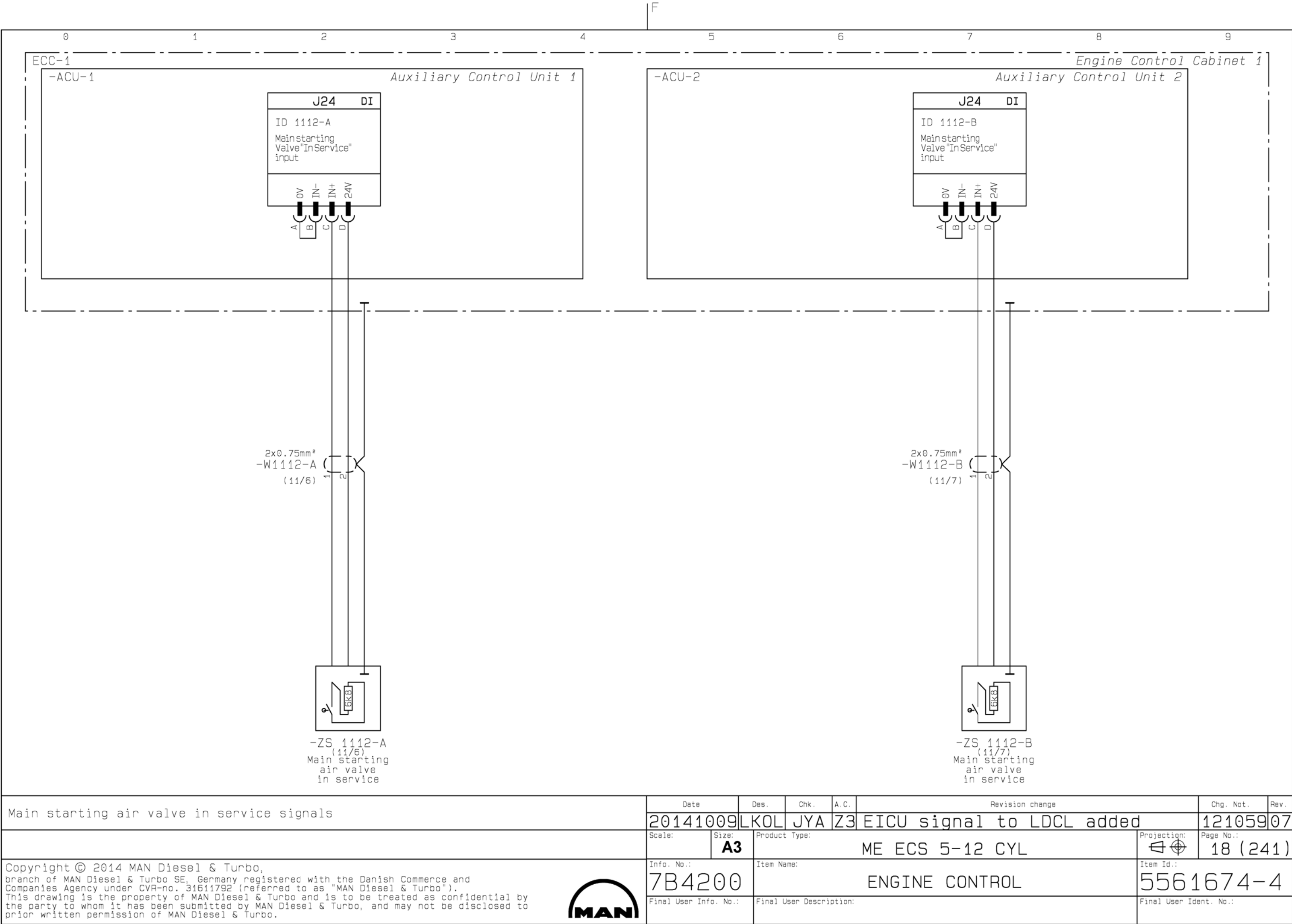


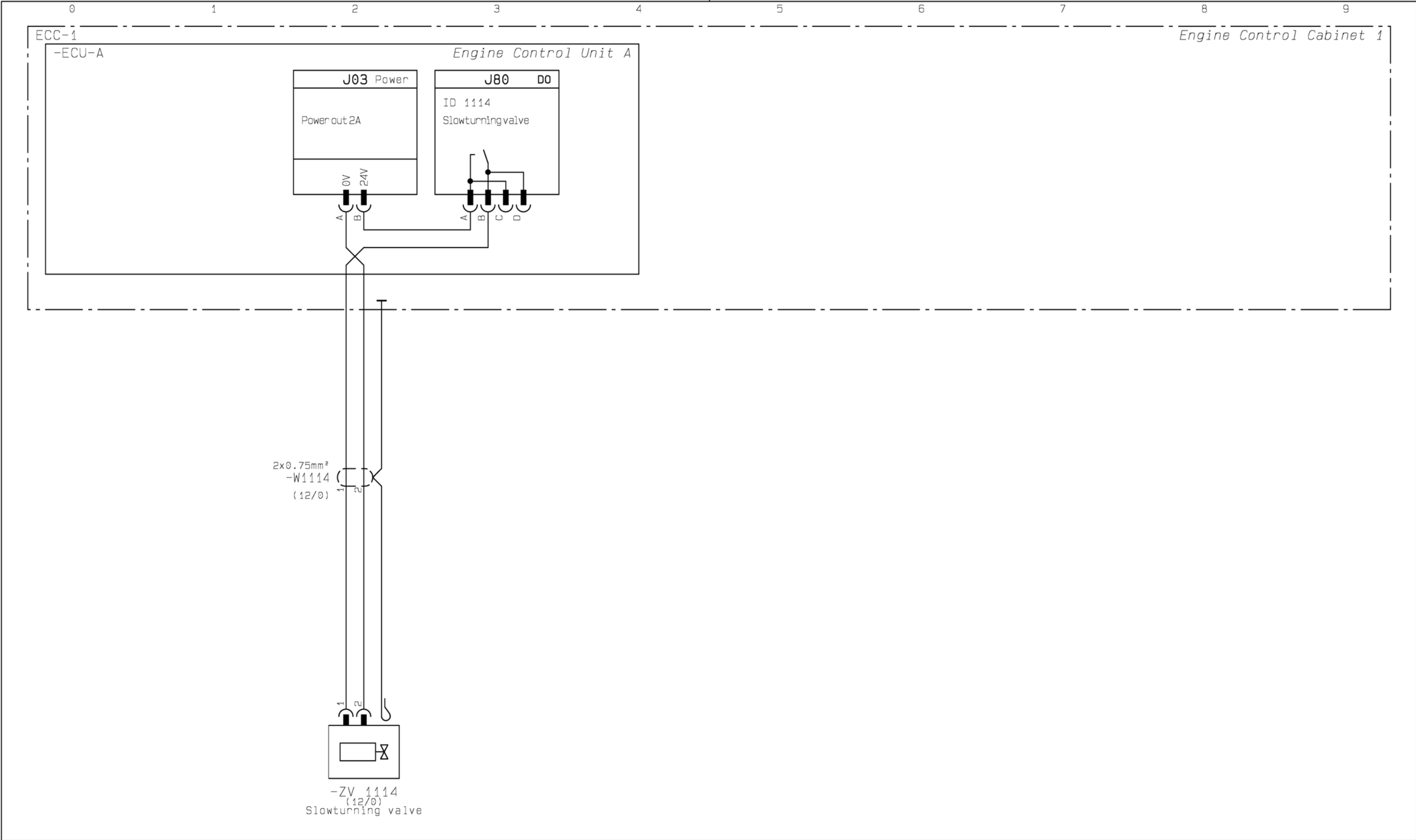
Start Air Distribution system blocked signals

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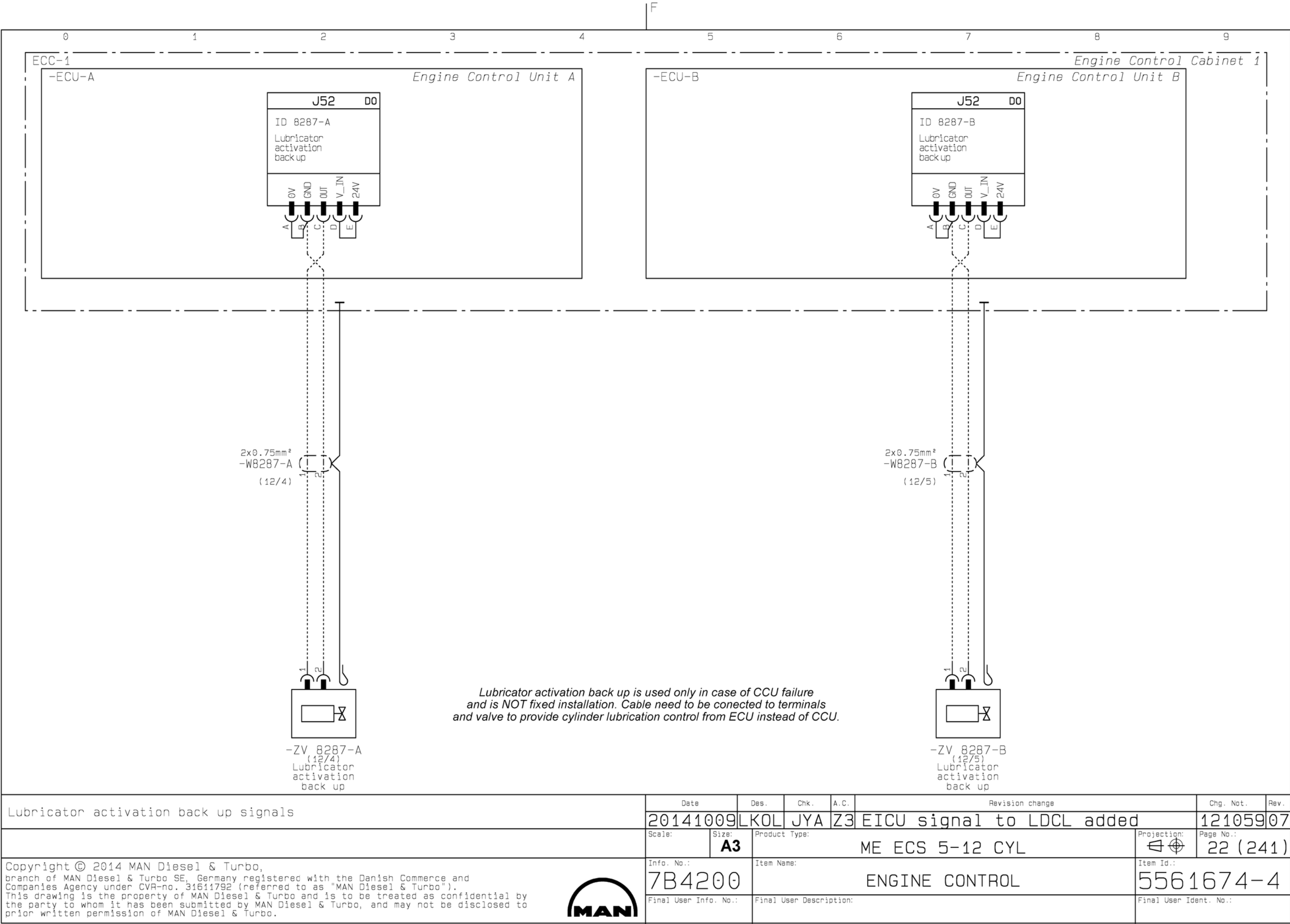


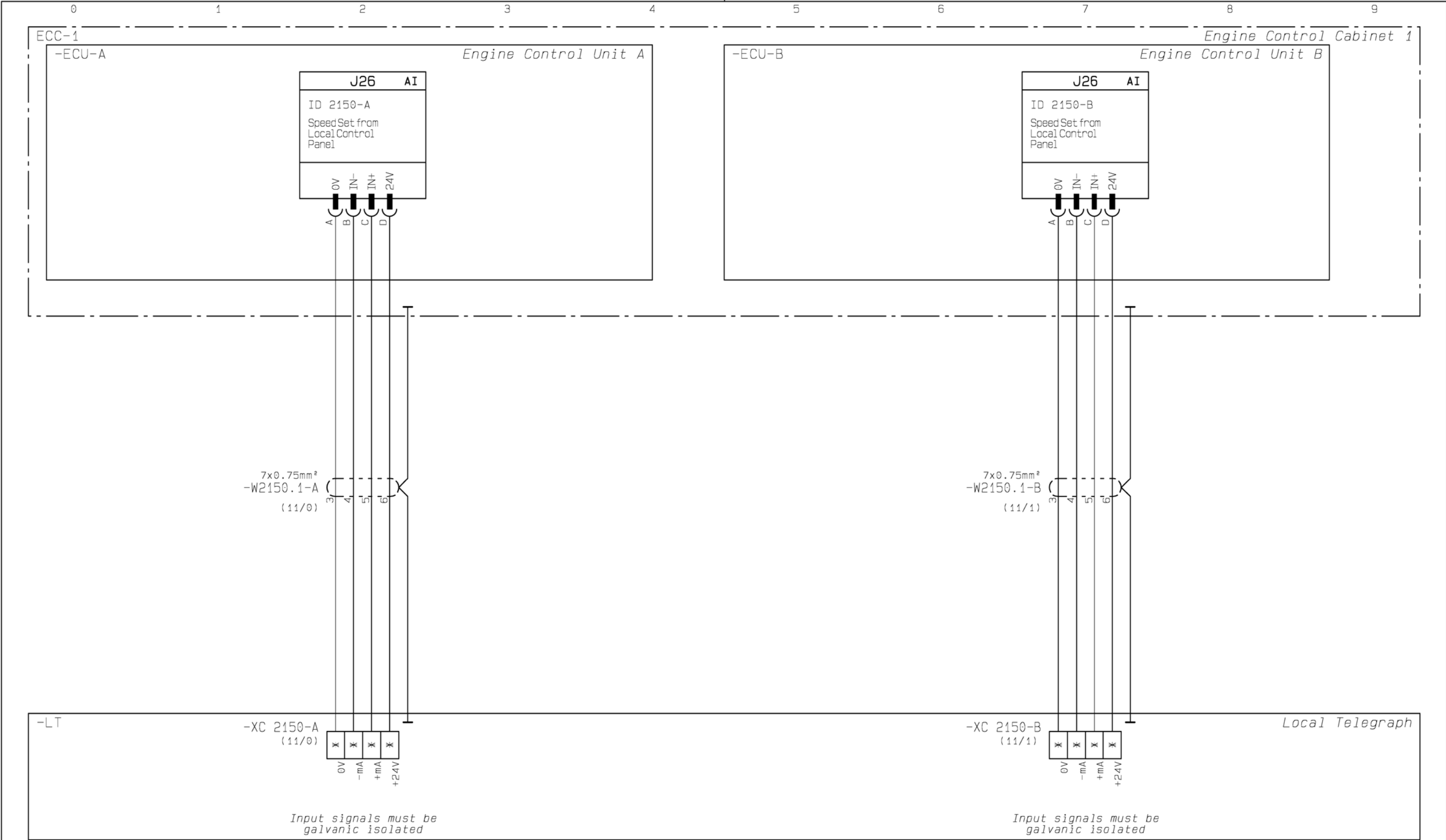
Slowturn valve signal

Slowturn valve signal	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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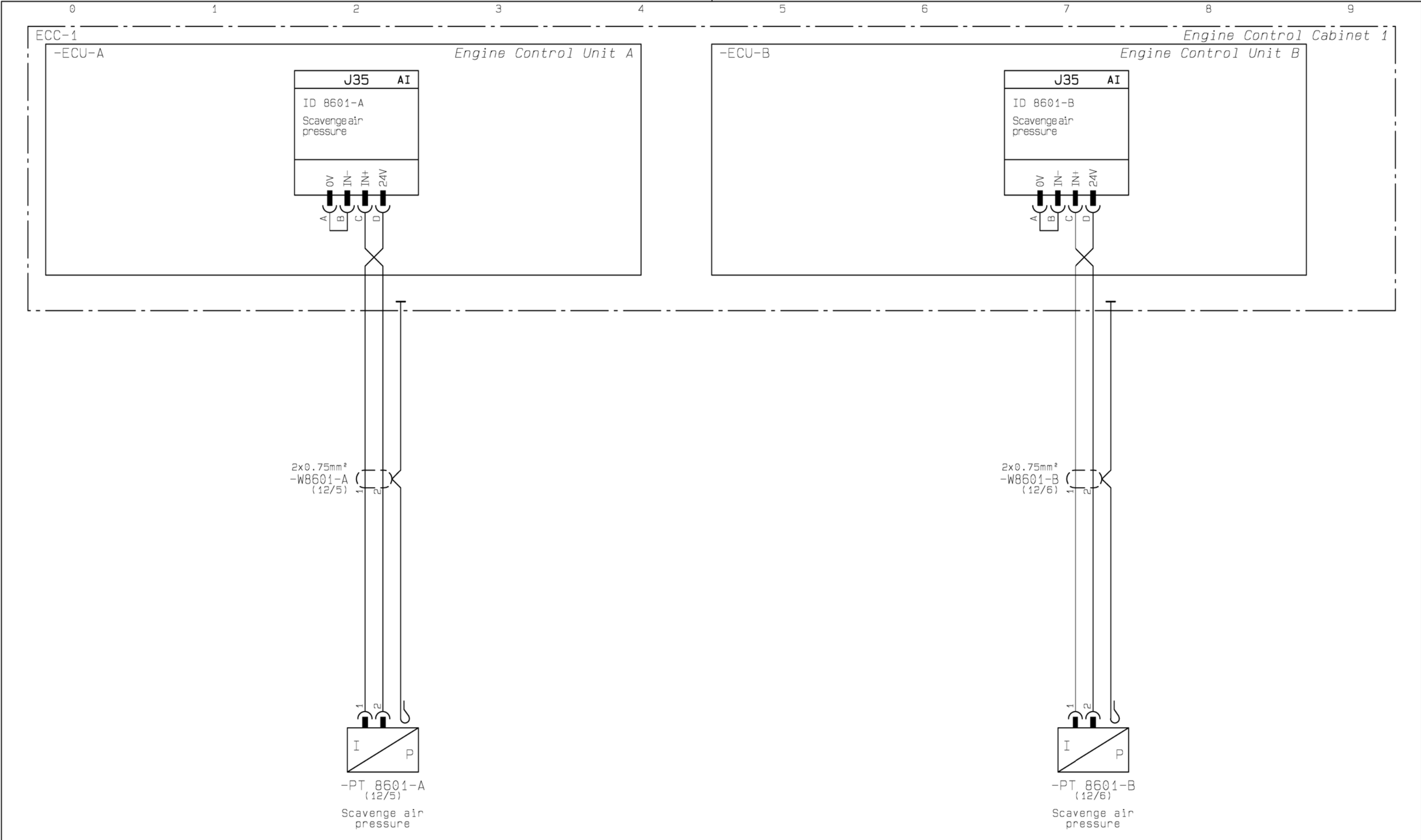






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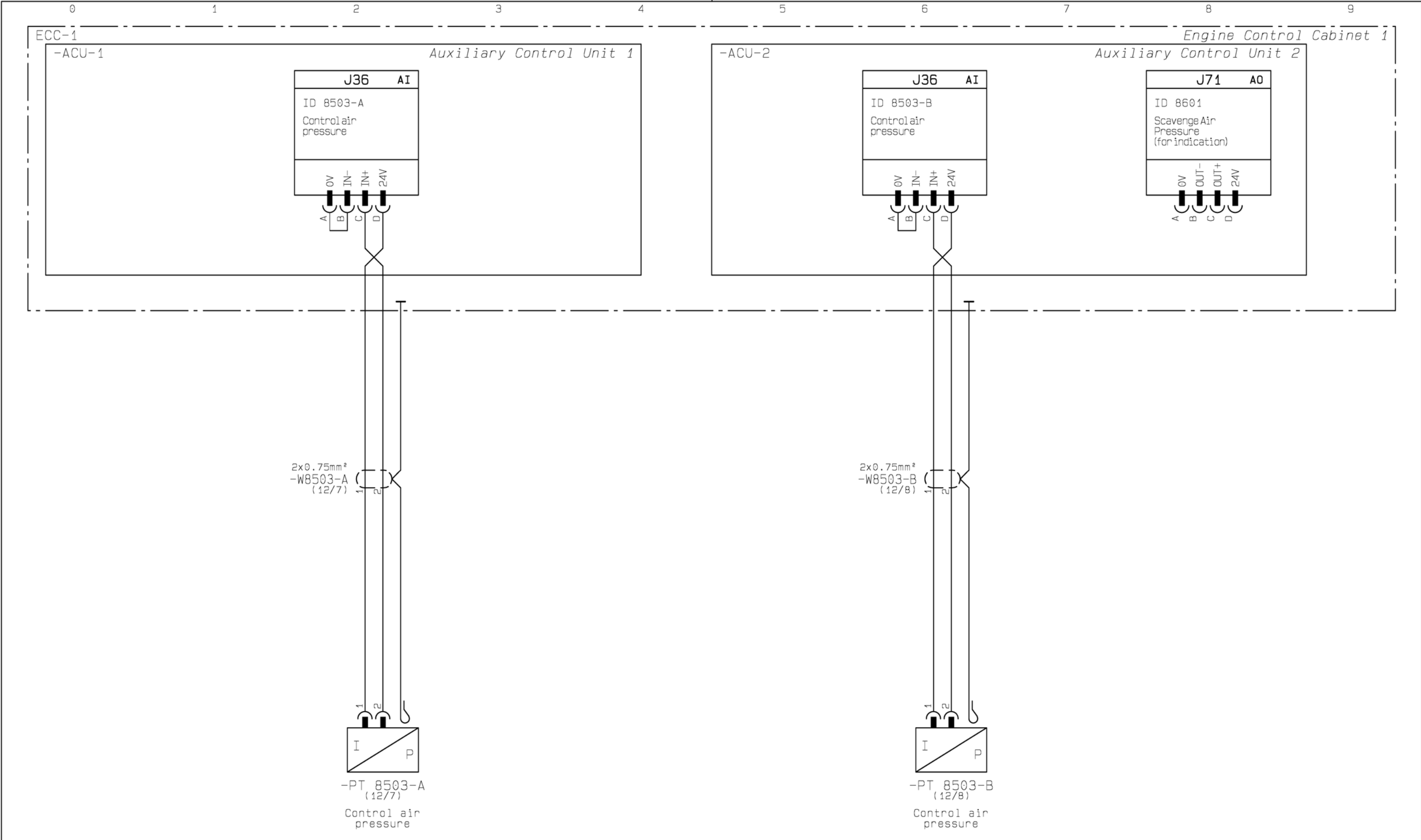


Scavenge air pressure signals

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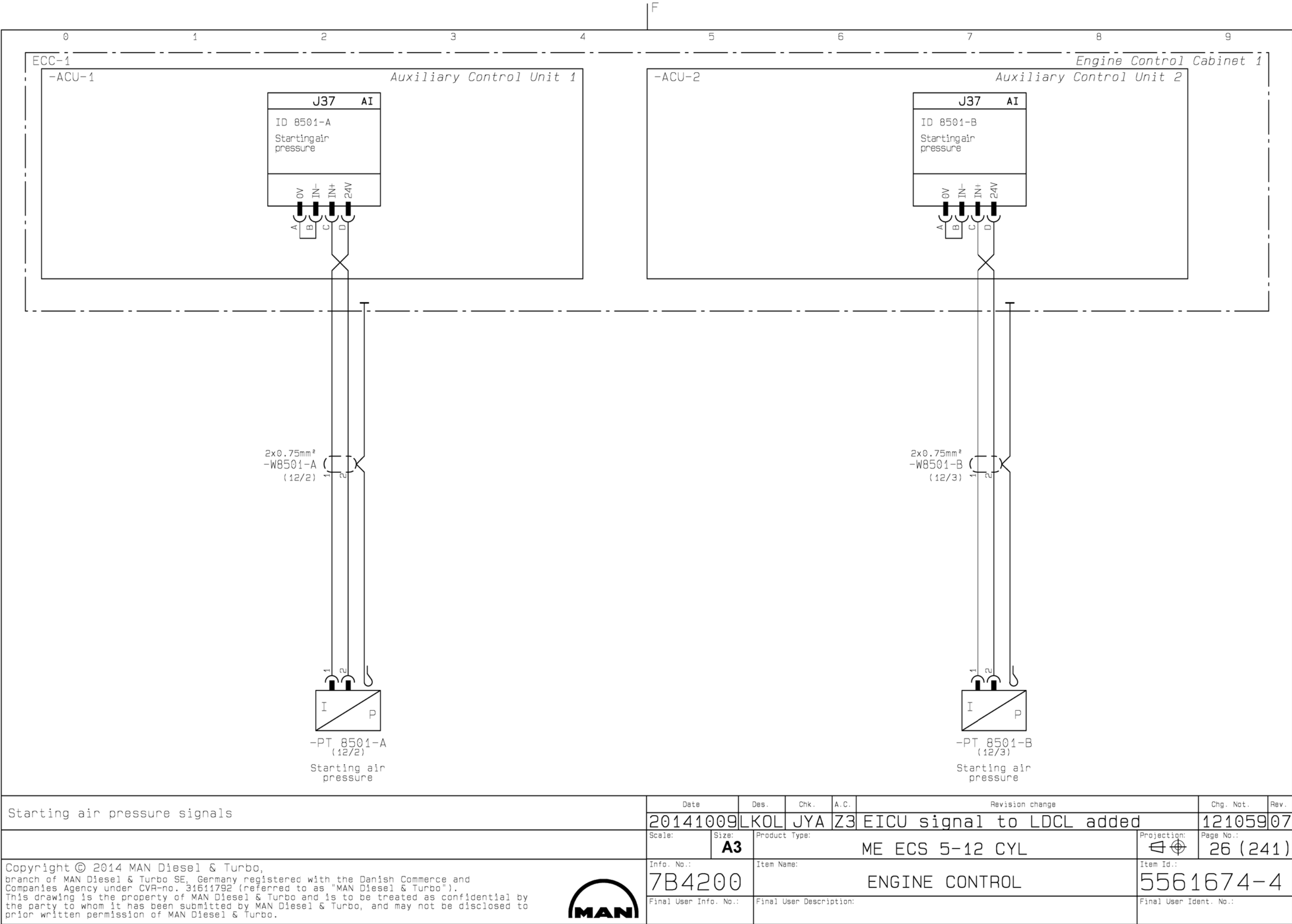
Control air pressure signals

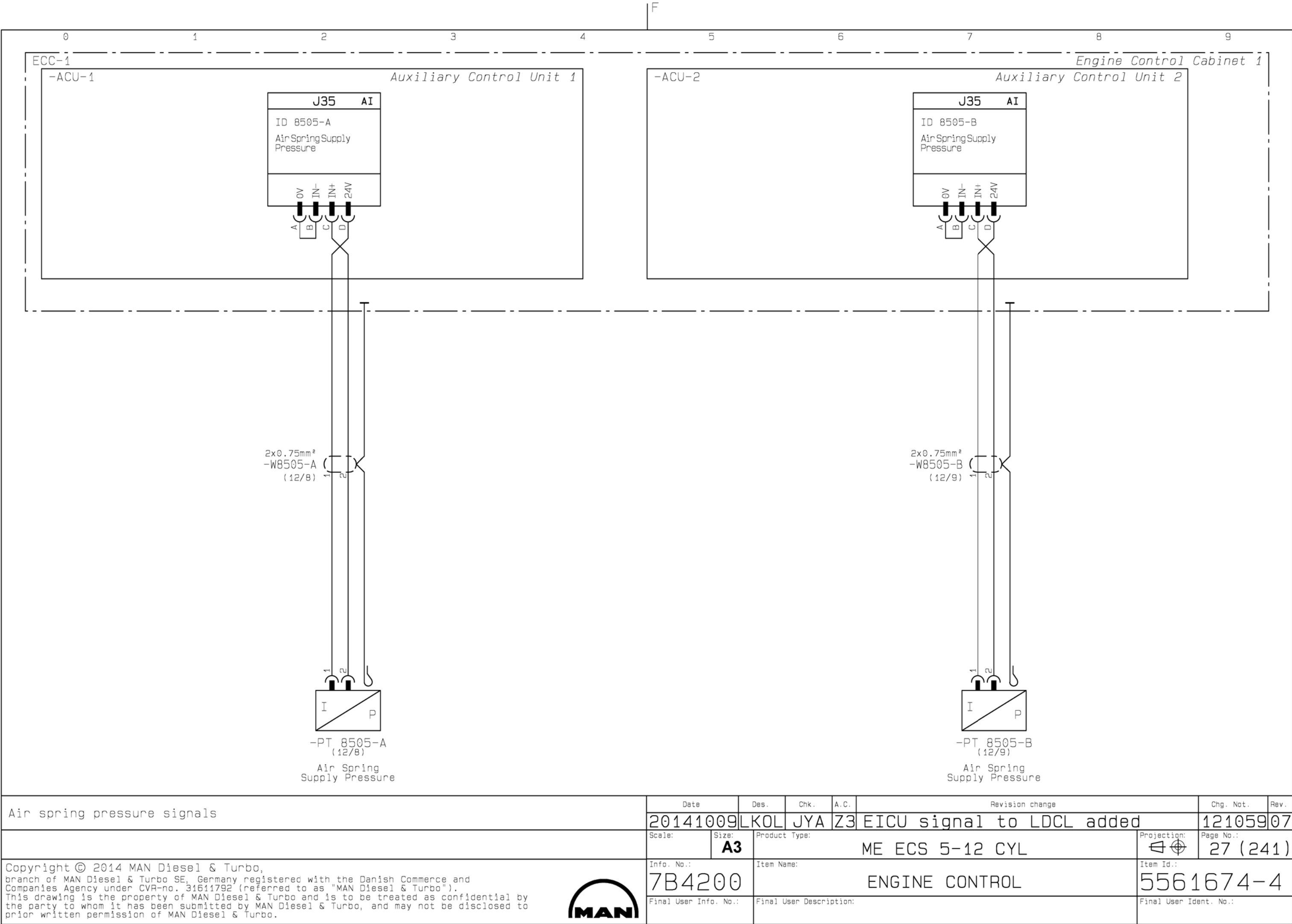
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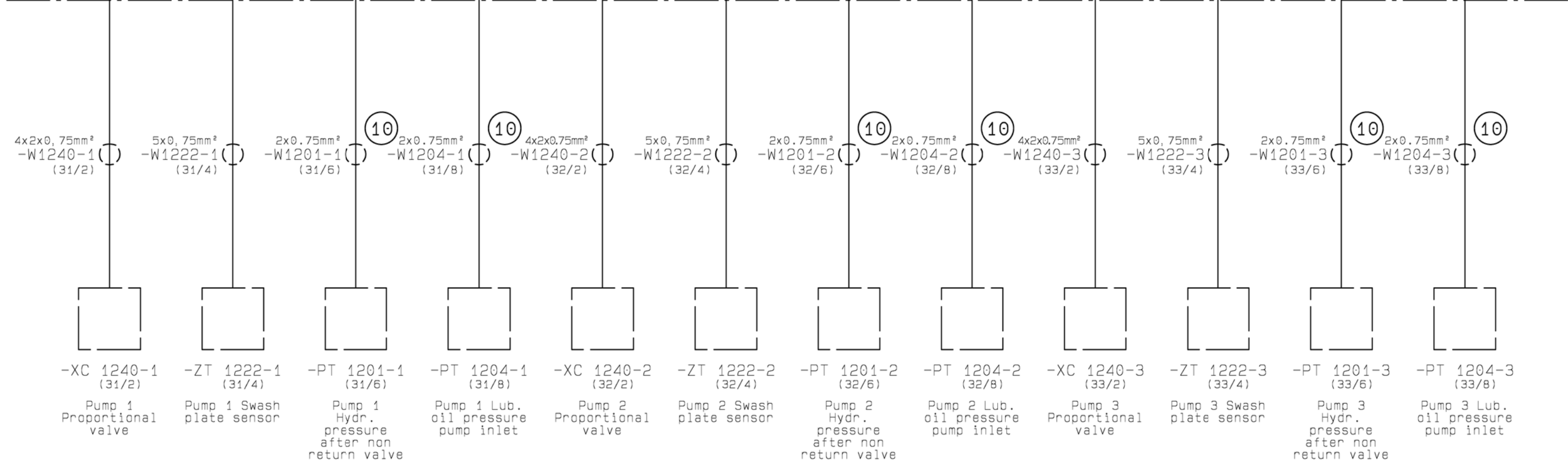
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HYDRAULIC POWER SUPPLY	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					28 (241)	
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	7B4200		ENGINE CONTROL				5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

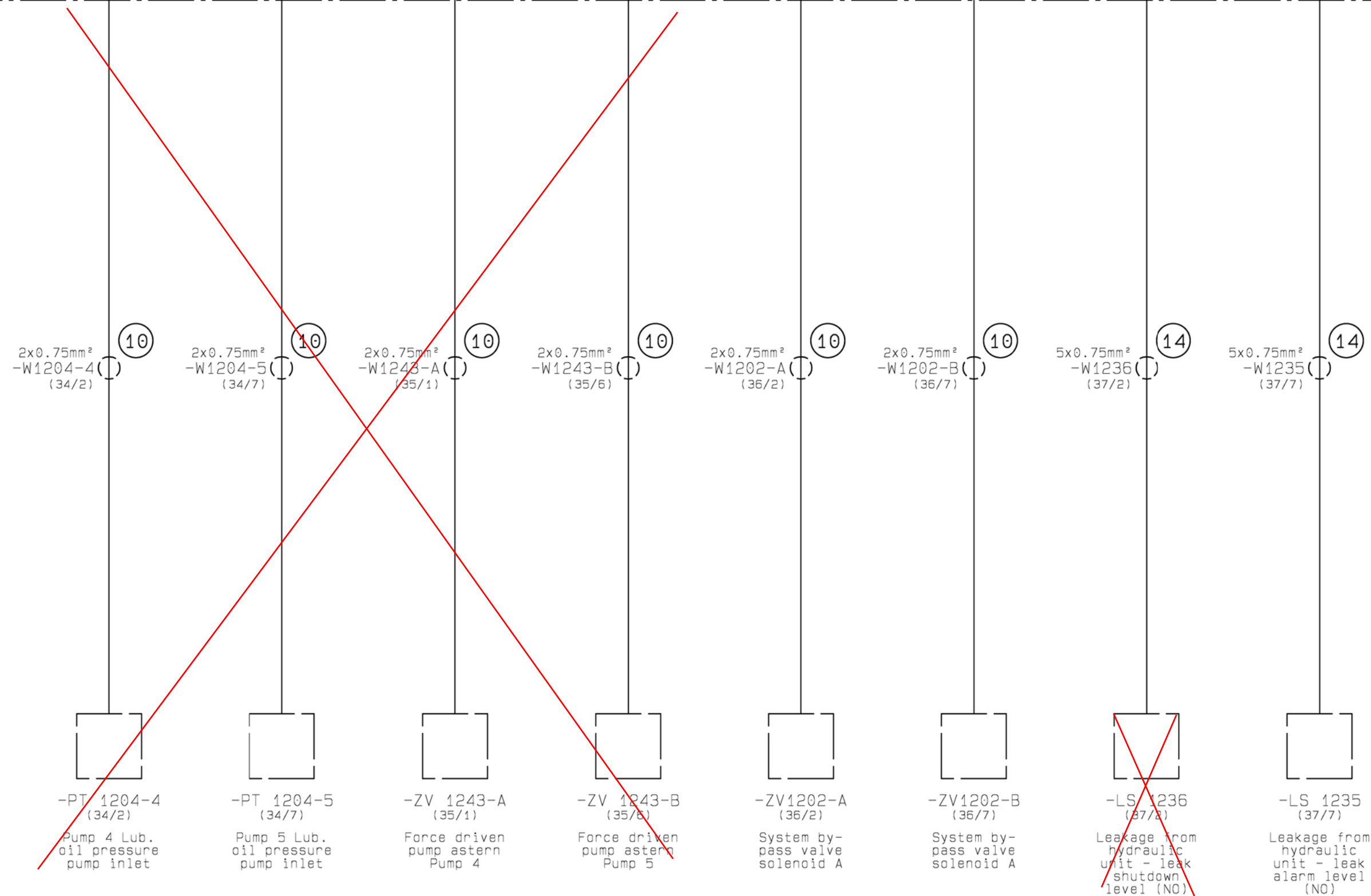






Hydraulic Power Supply cable overview	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 29 (241)
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			7B4200		ENGINE CONTROL		5561674-4	
			Final User Info. No.:		Final User Description:		Final User Ident. No.:	

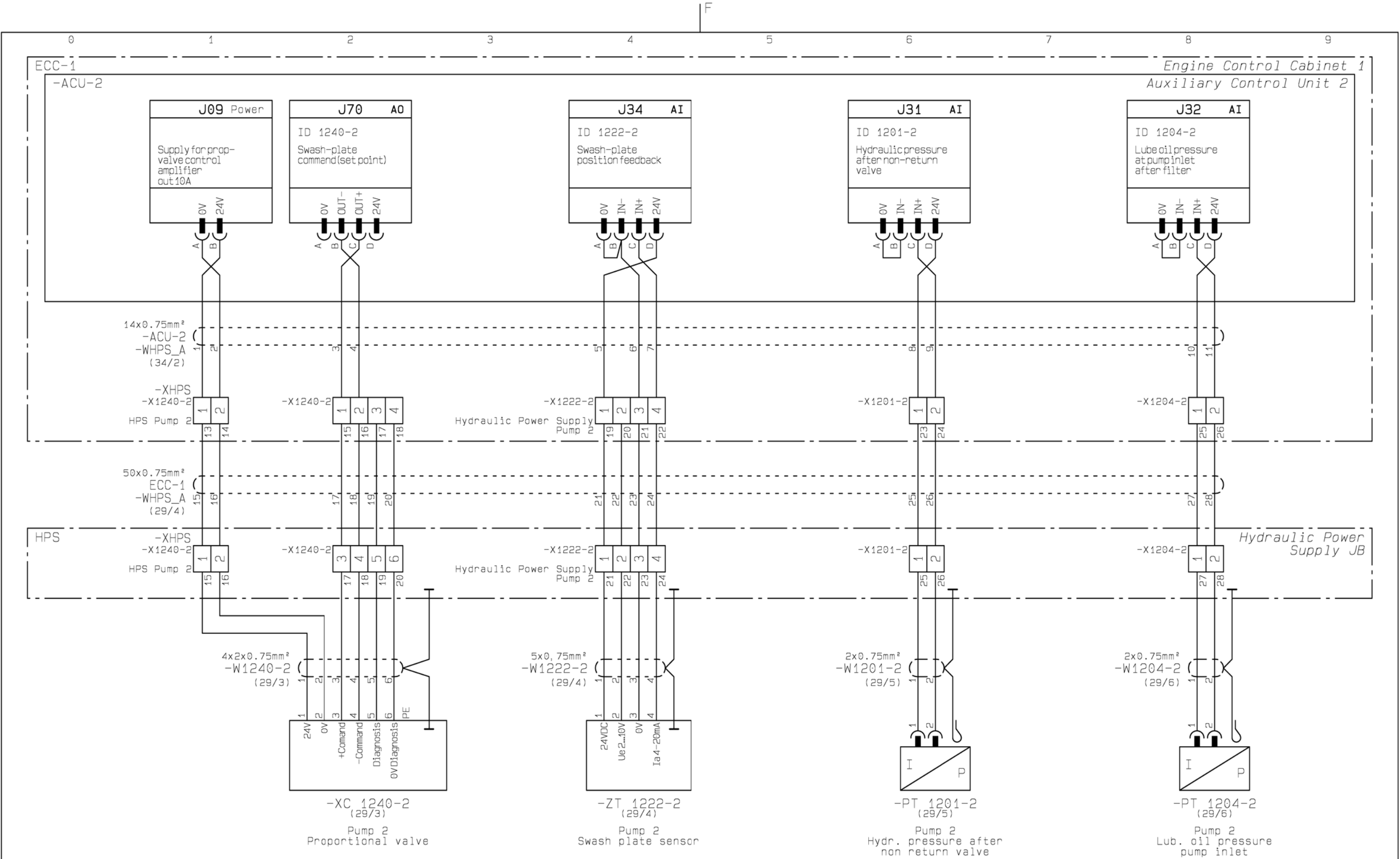




Hydraulic Power Supply cable overview	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 30 (241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





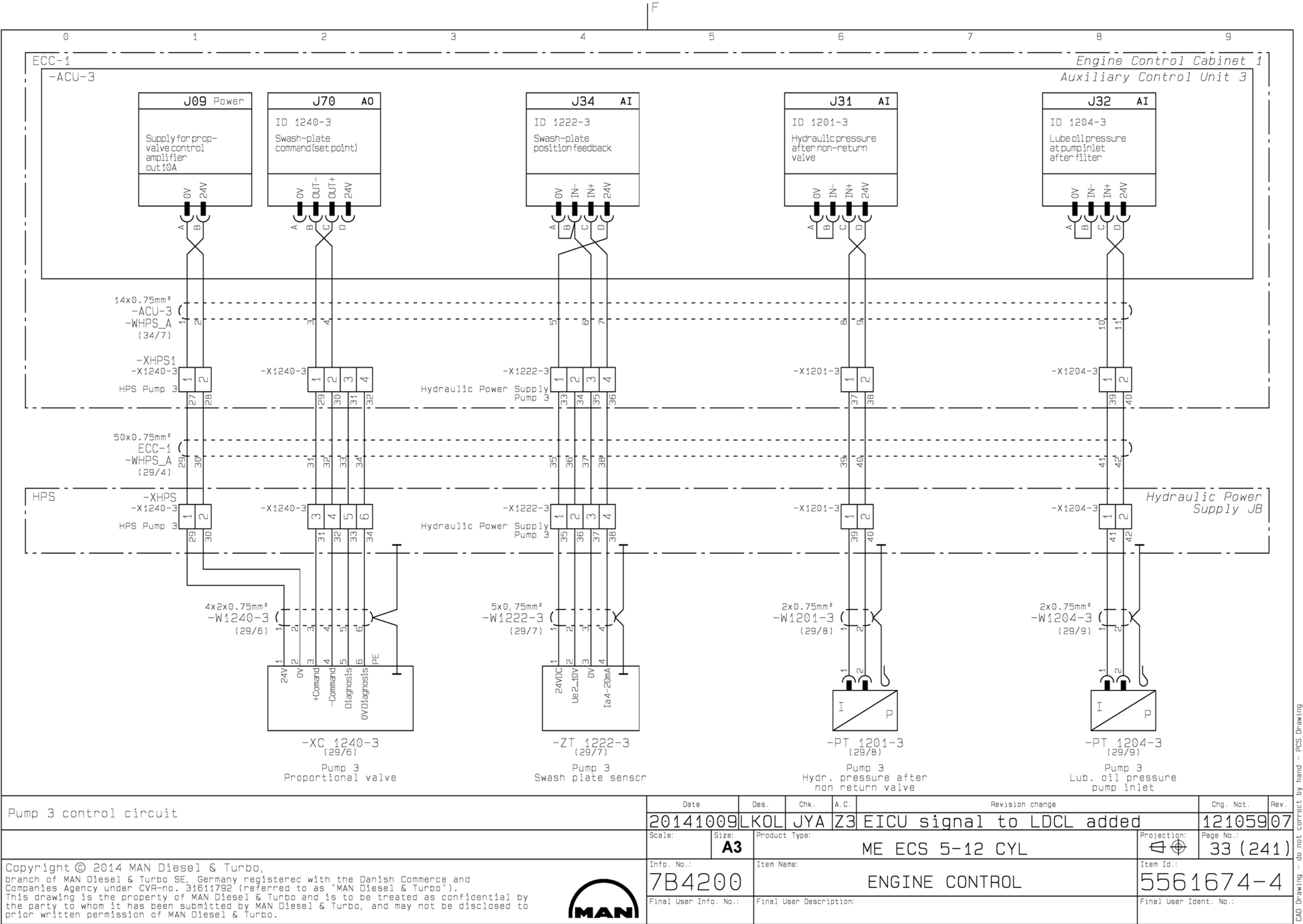


Pump 2 control circuit

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 32 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

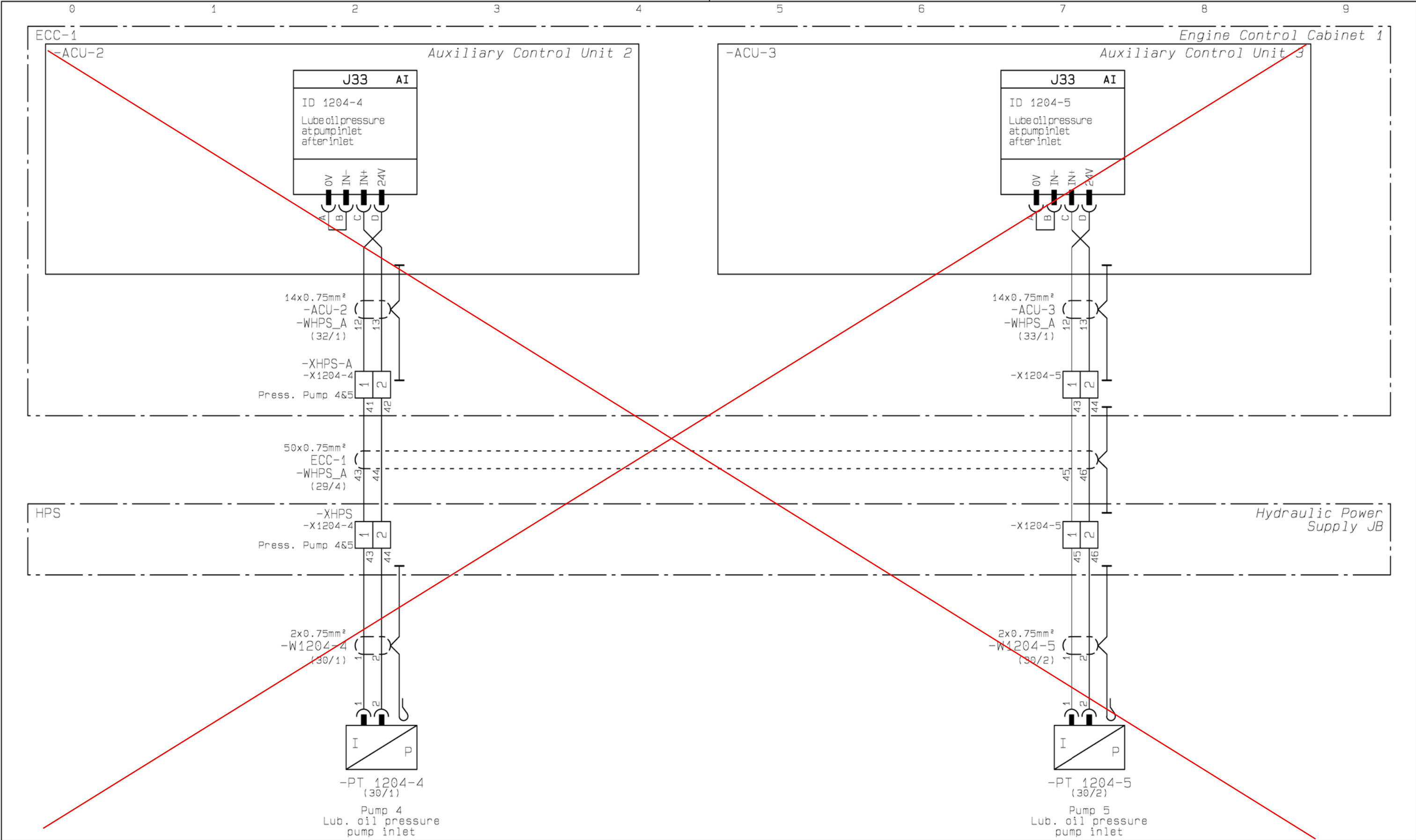


Pump 3 control circuit

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 33 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

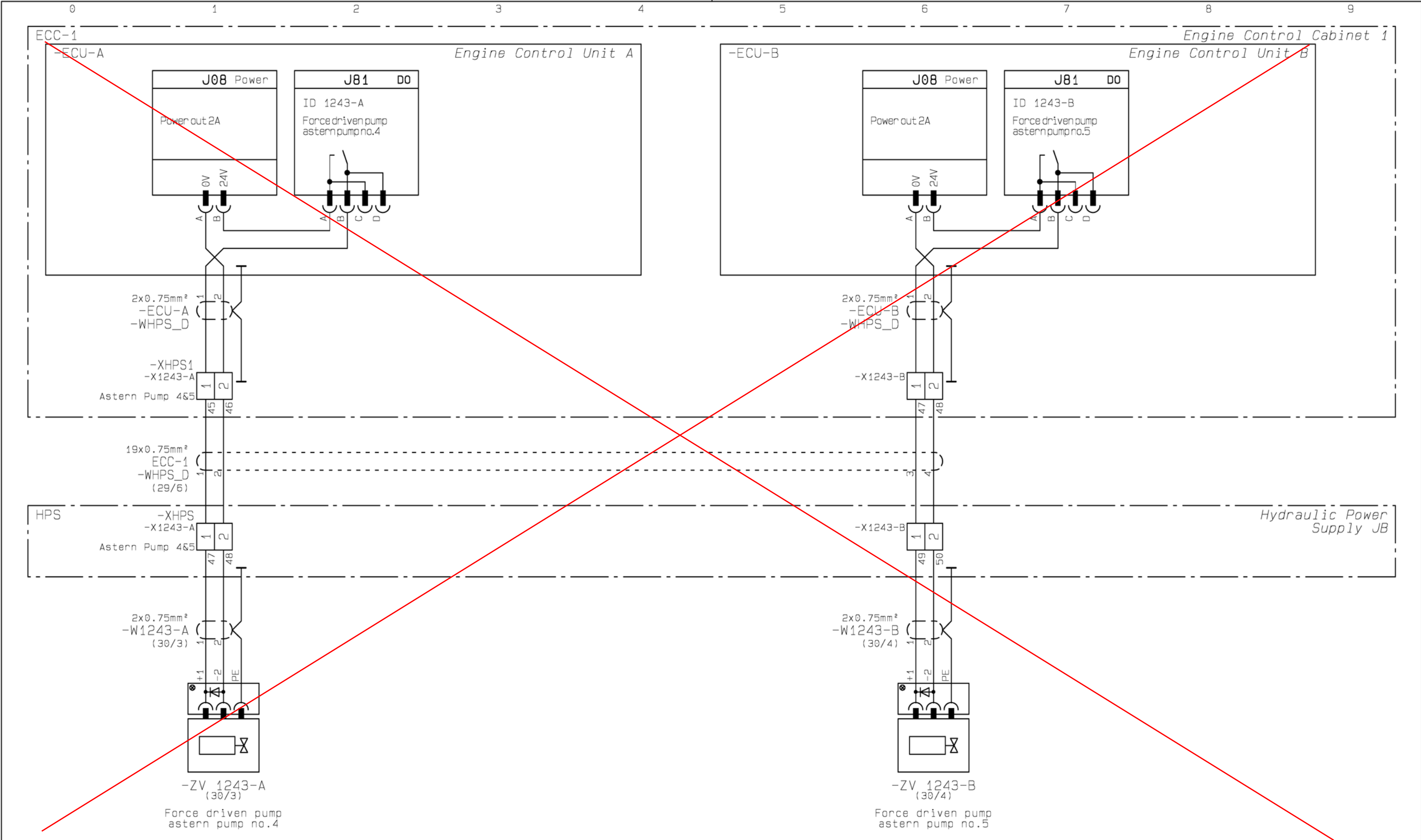


Pump 4 and 5 pressure sensors

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 34 (241)
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Final User Info. No.:		Final User Description:			Final User Ident. No.:	

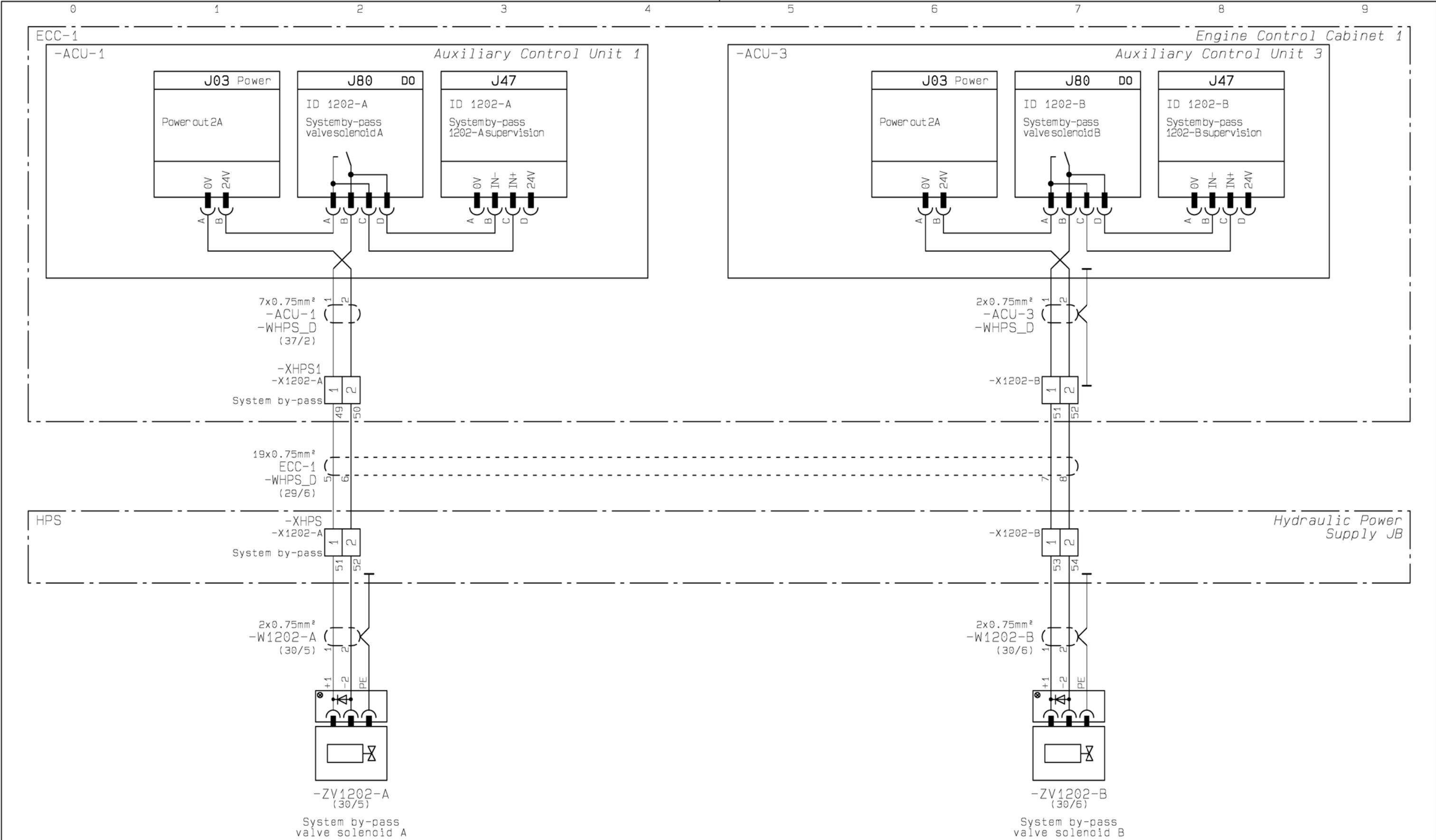


Pump 4 and 5 astern signals

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 35 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

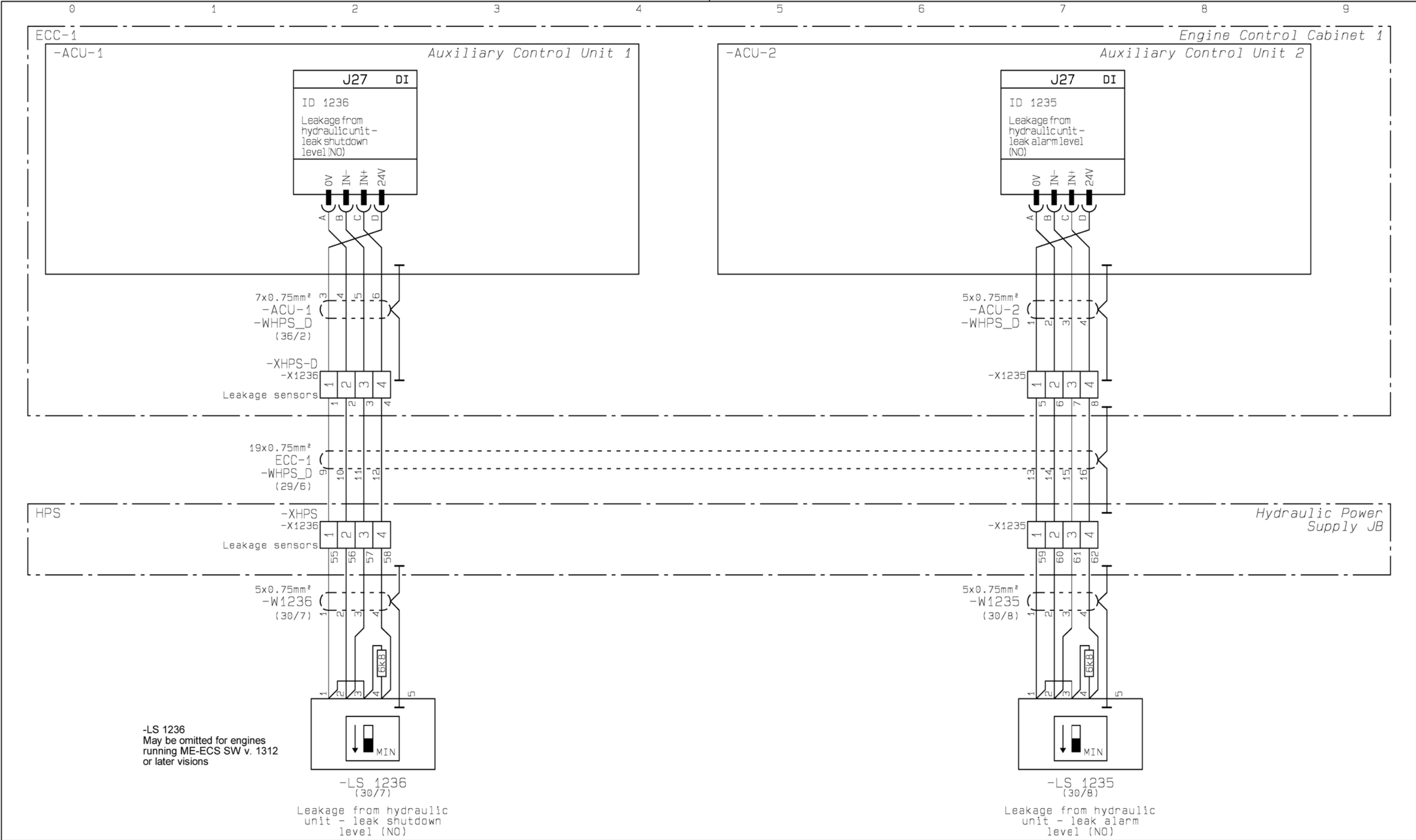


System by-pass solenoid valves A and B

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 36 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



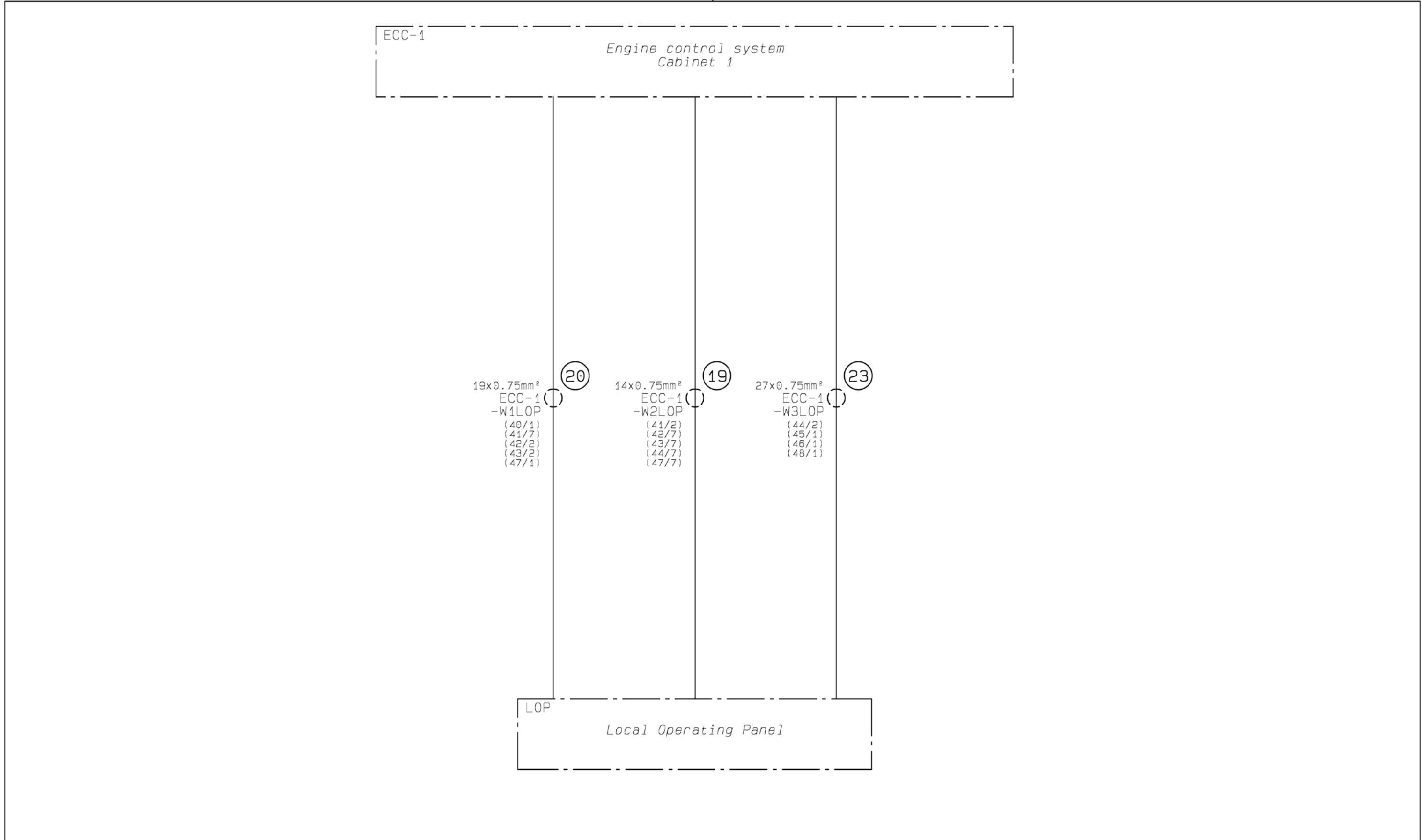
Leakage sensors	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 37 (241)	
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		Final User Info. No.:		Final User Description:				Final User Ident. No.:	

4 LOCAL OPERATING PANEL

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LOCAL OPERATING PANEL	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 38 (241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		



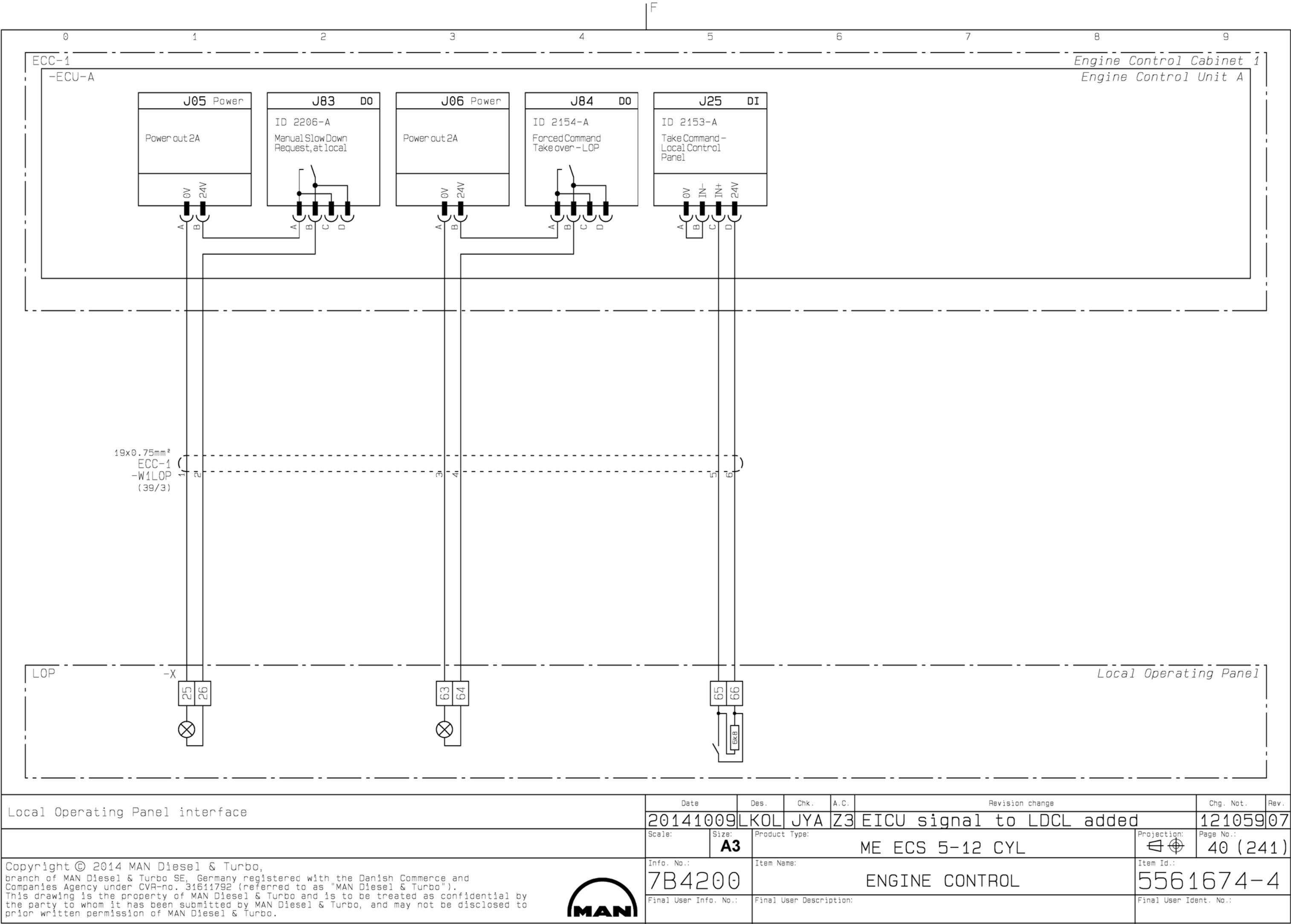


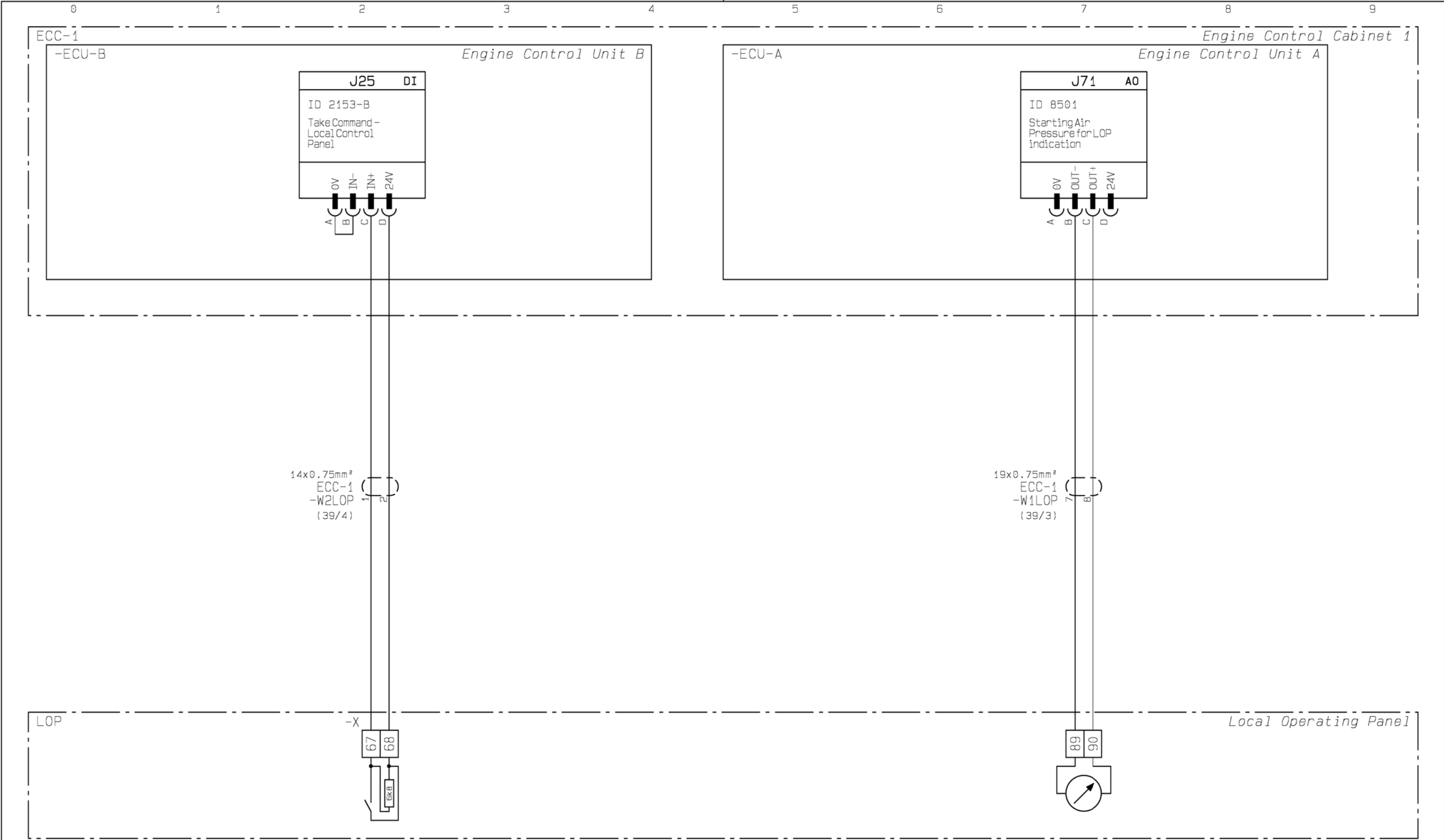
Interface to Local Operating Panel cable overview

Date					Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009					LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:					Size:	Product Type:			Projection:	Page No.:
					A3	ME ECS 5-12 CYL				39 (241)
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					7B4200		ENGINE CONTROL		5561674-4	
					Final User Info. No.:		Final User Description:		Final User Ident. No.:	



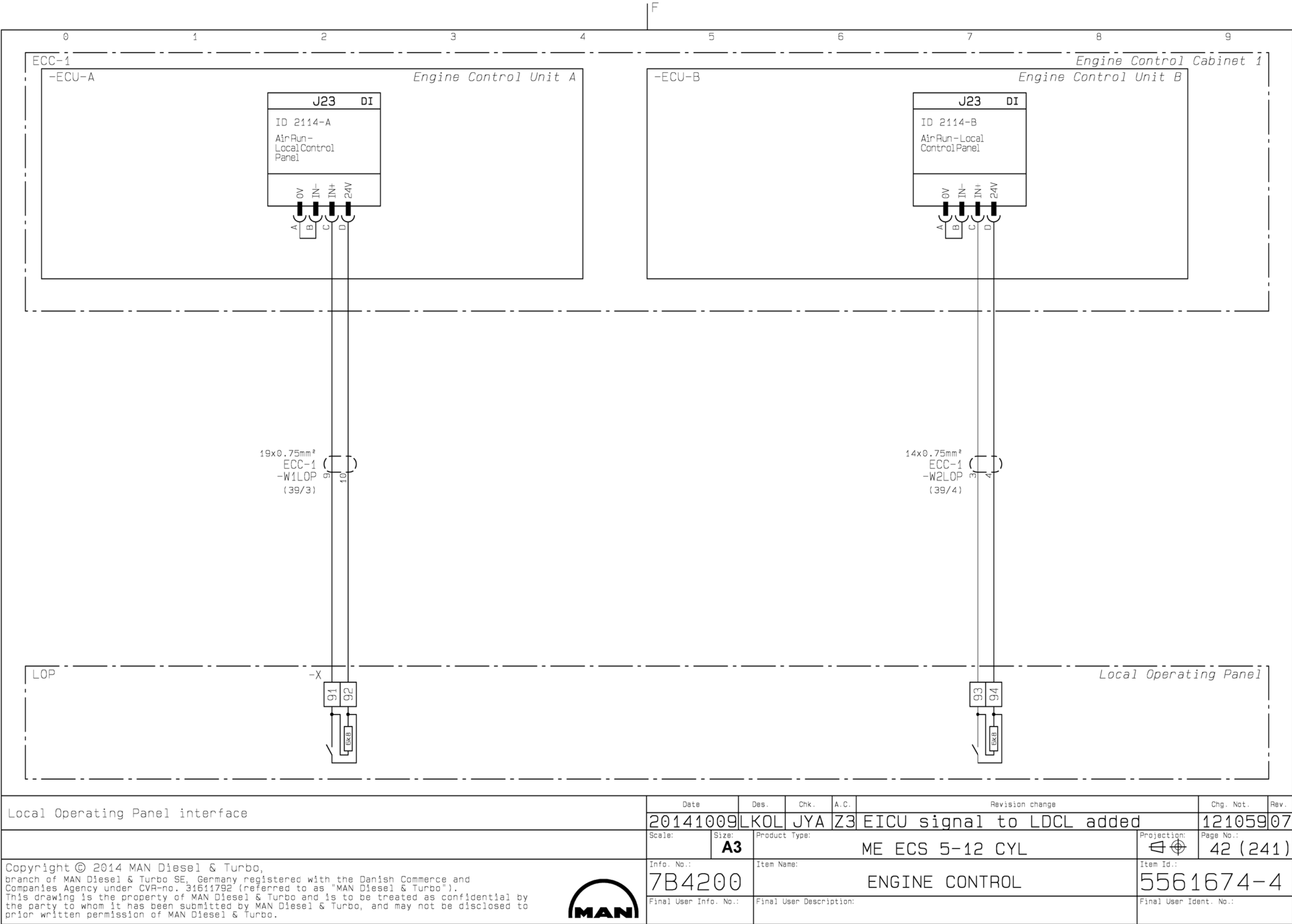
CAD Drawing - do not correct by hand - PCS Drawing

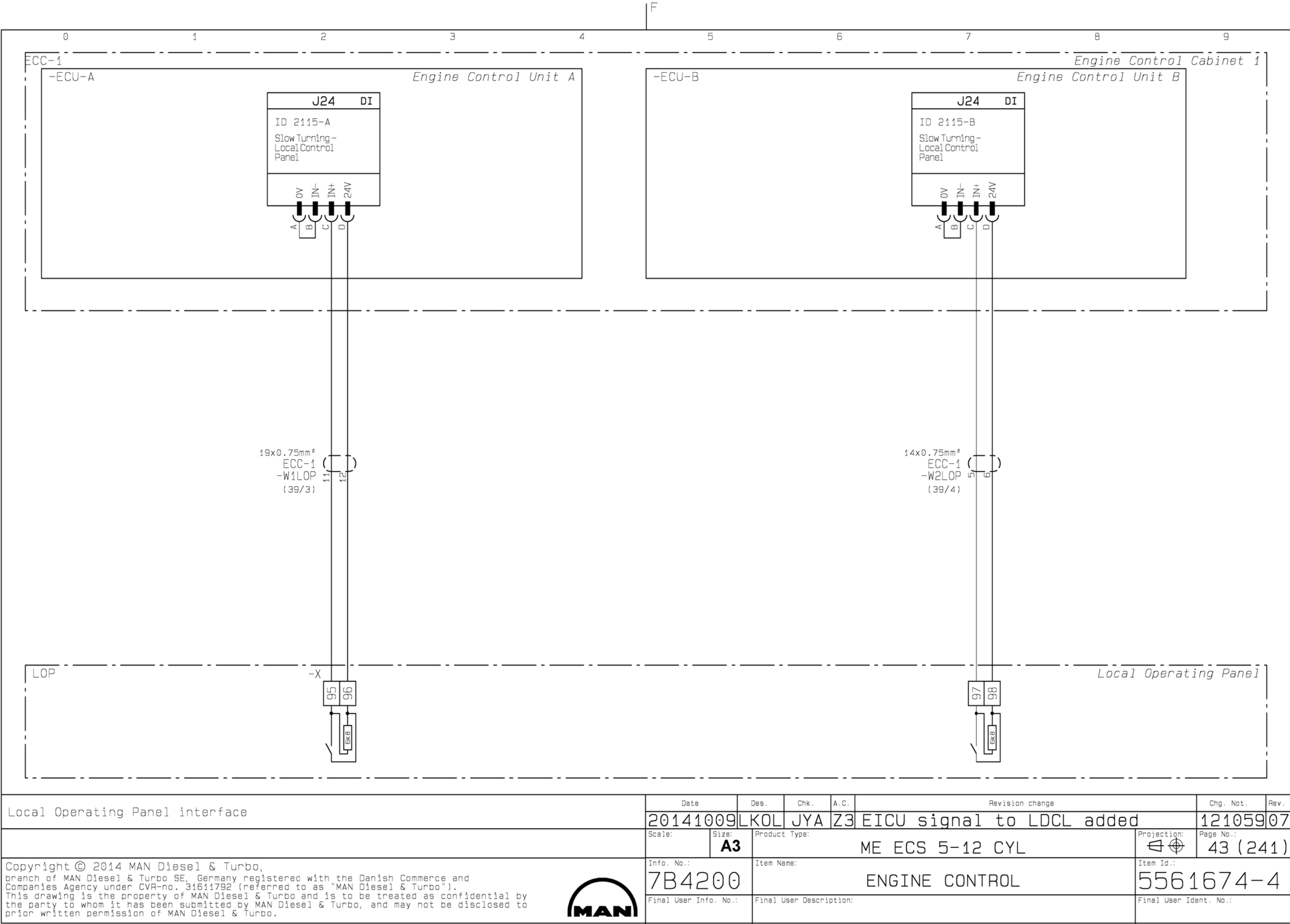




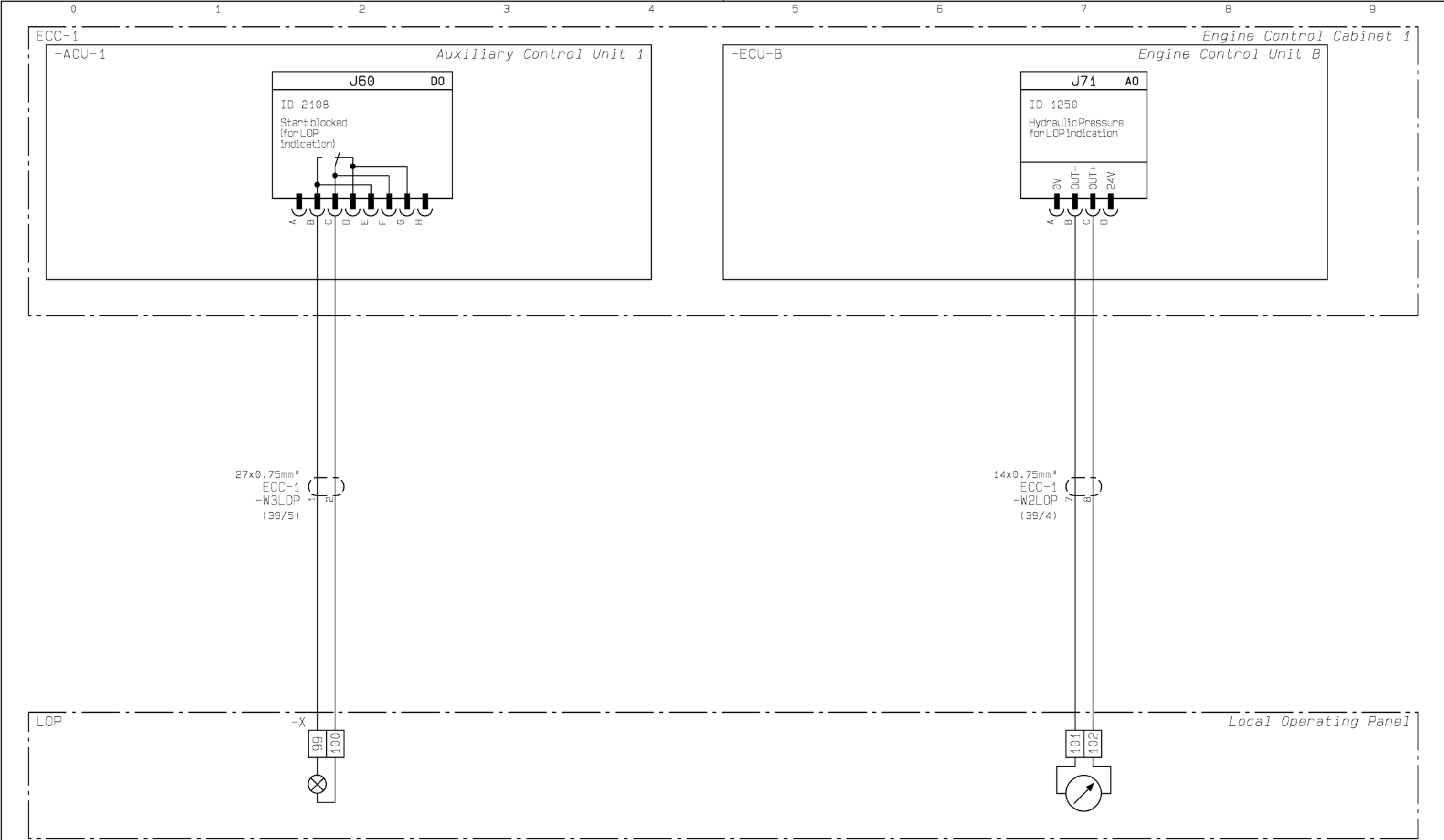
Local Operating Panel interface	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:				Final User Ident. No.:	





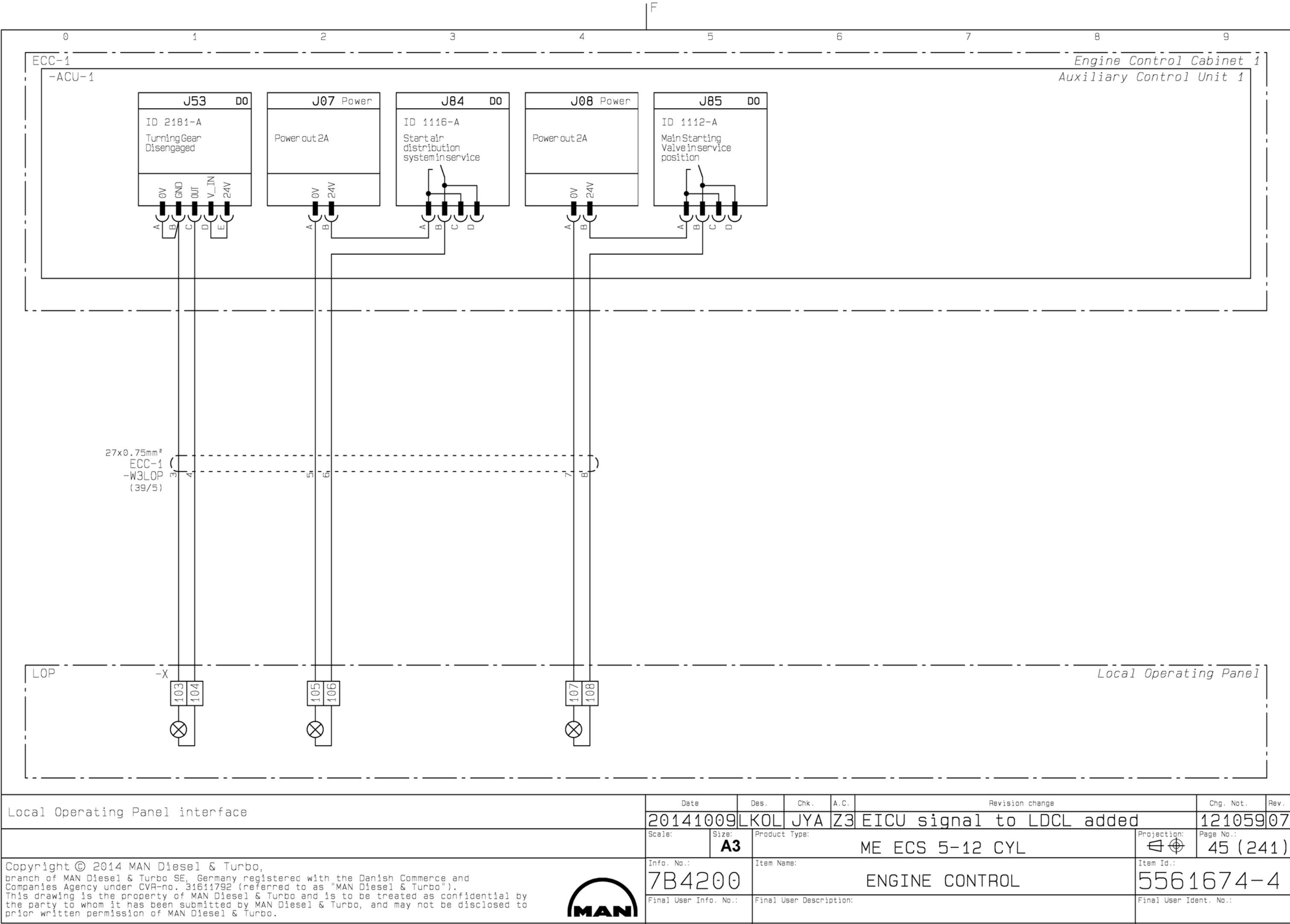


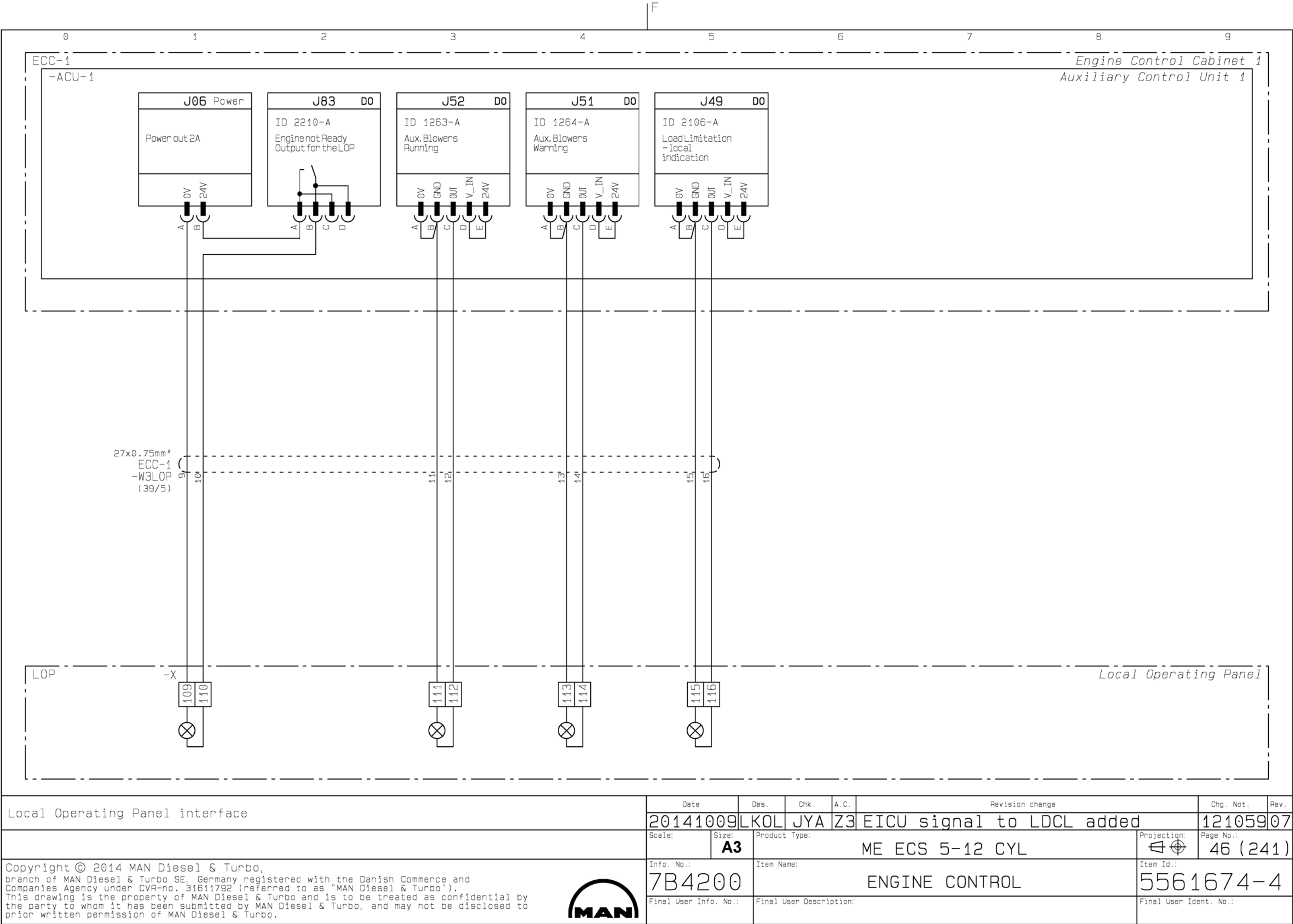
CAD Drawing - do not correct by hand - PCS Drawing

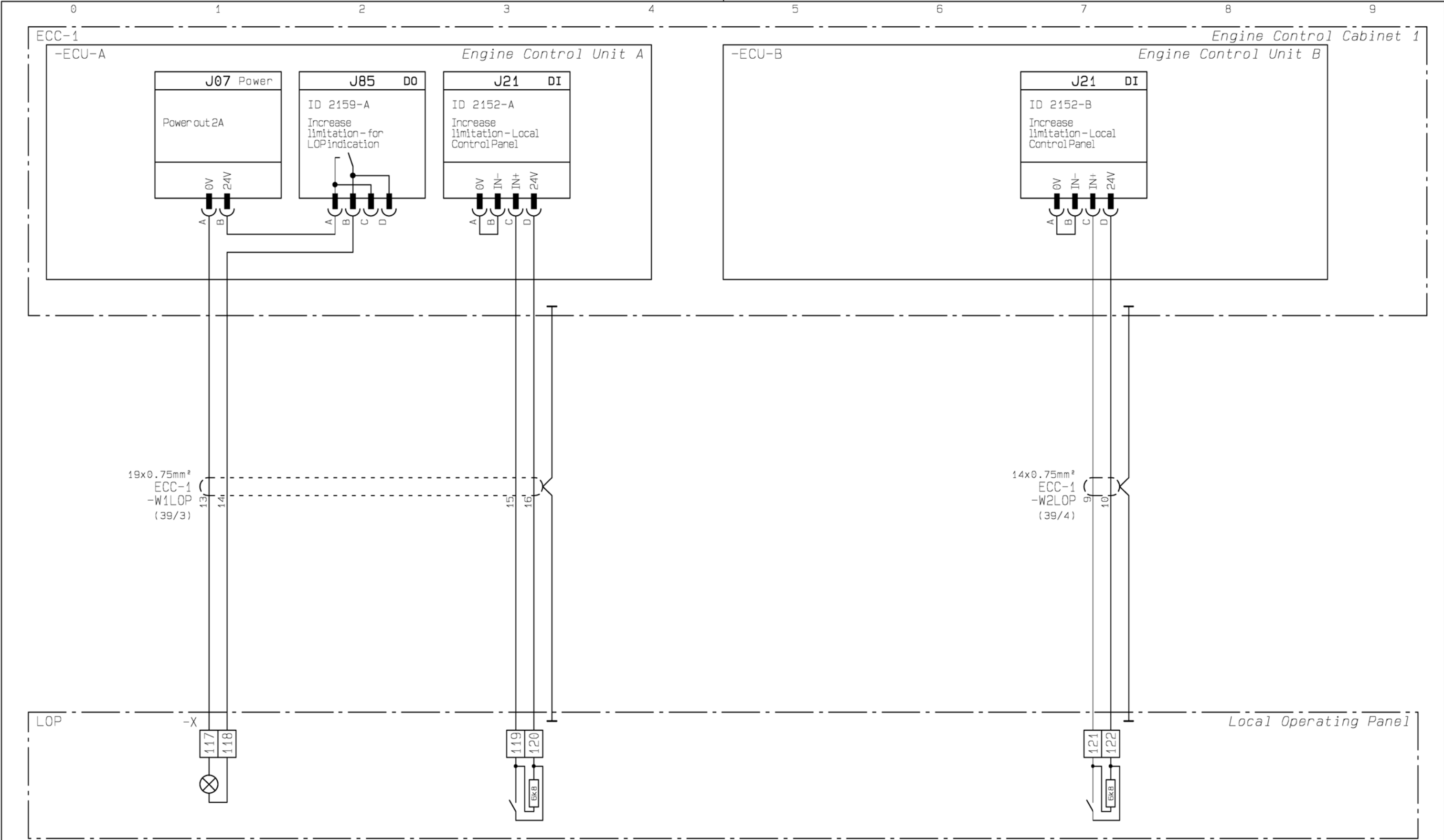


Local Operating Panel interface	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



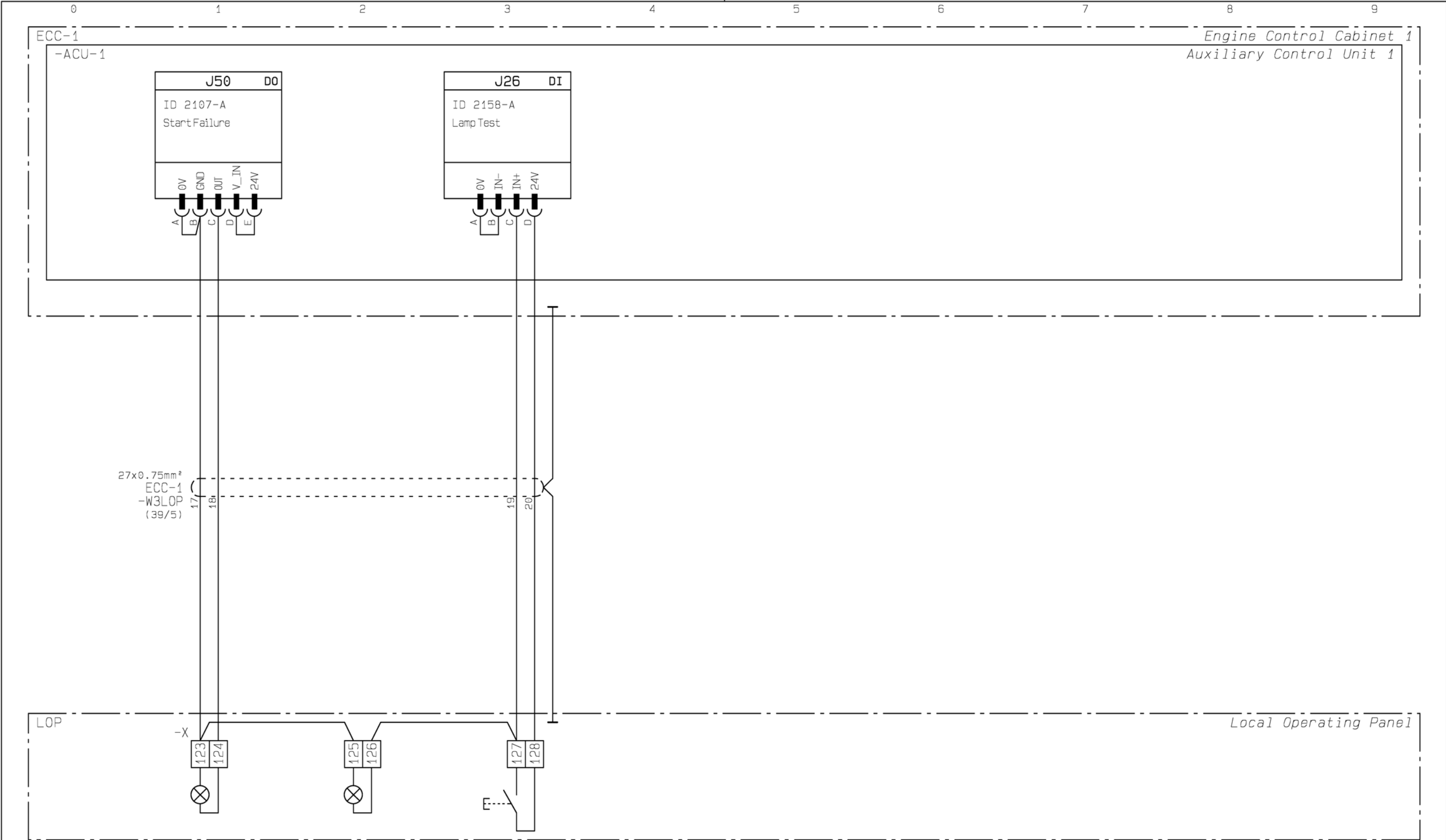






Local Operating Panel interface	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





Local Operating Panel interface

Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:				Projection:	Page No.:
	A3	ME ECS 5-12 CYL					48 (241)
Info. No.:		Item Name:				Item Id.:	
7B4200		ENGINE CONTROL				5561674-4	
Final User Info. No.:		Final User Description:				Final User Ident. No.:	

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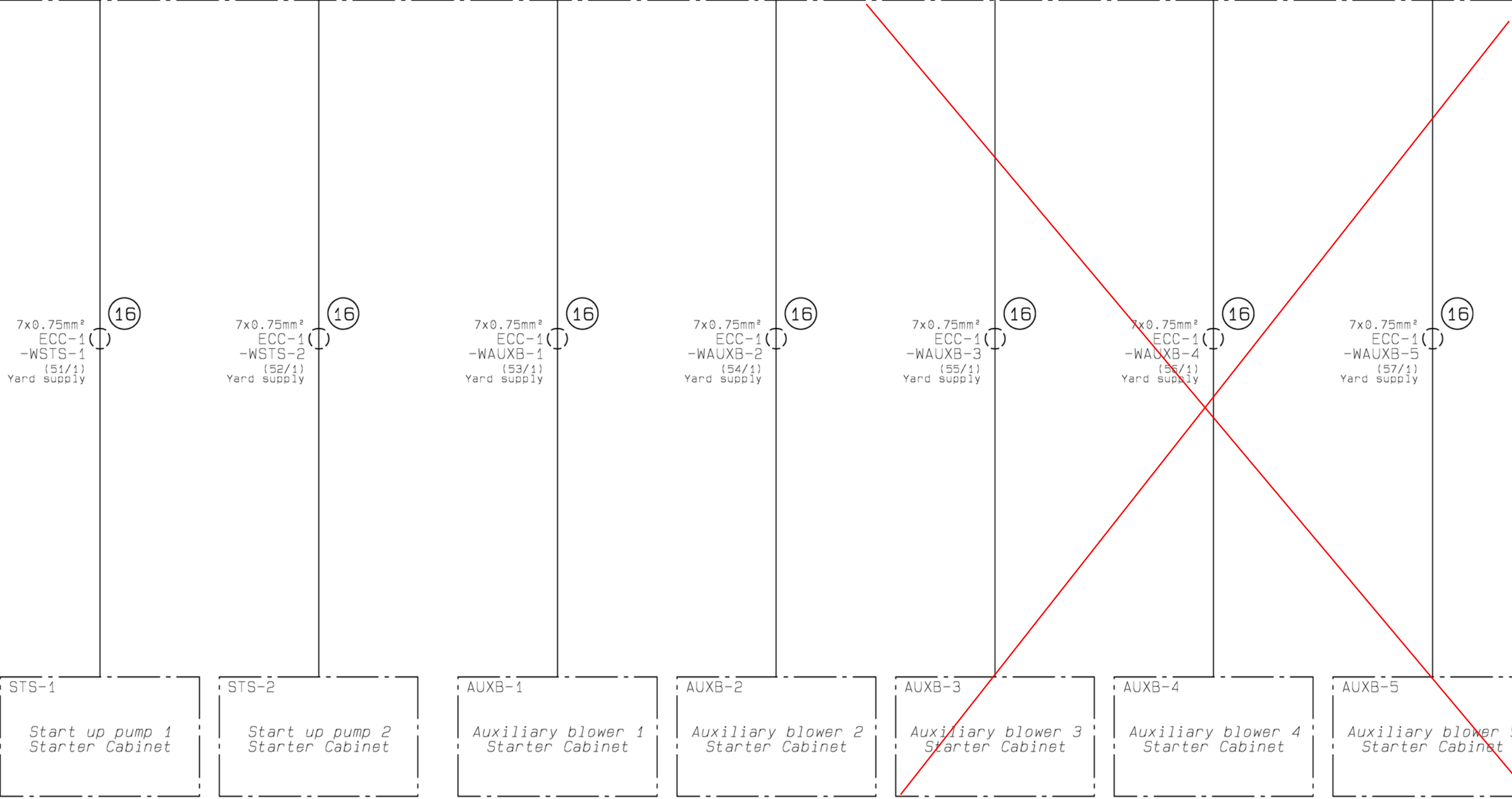


CAD Drawing - do not correct by hand - PCS Drawing

5 START-UP PUMPS & AUXILIARY BLOWERS

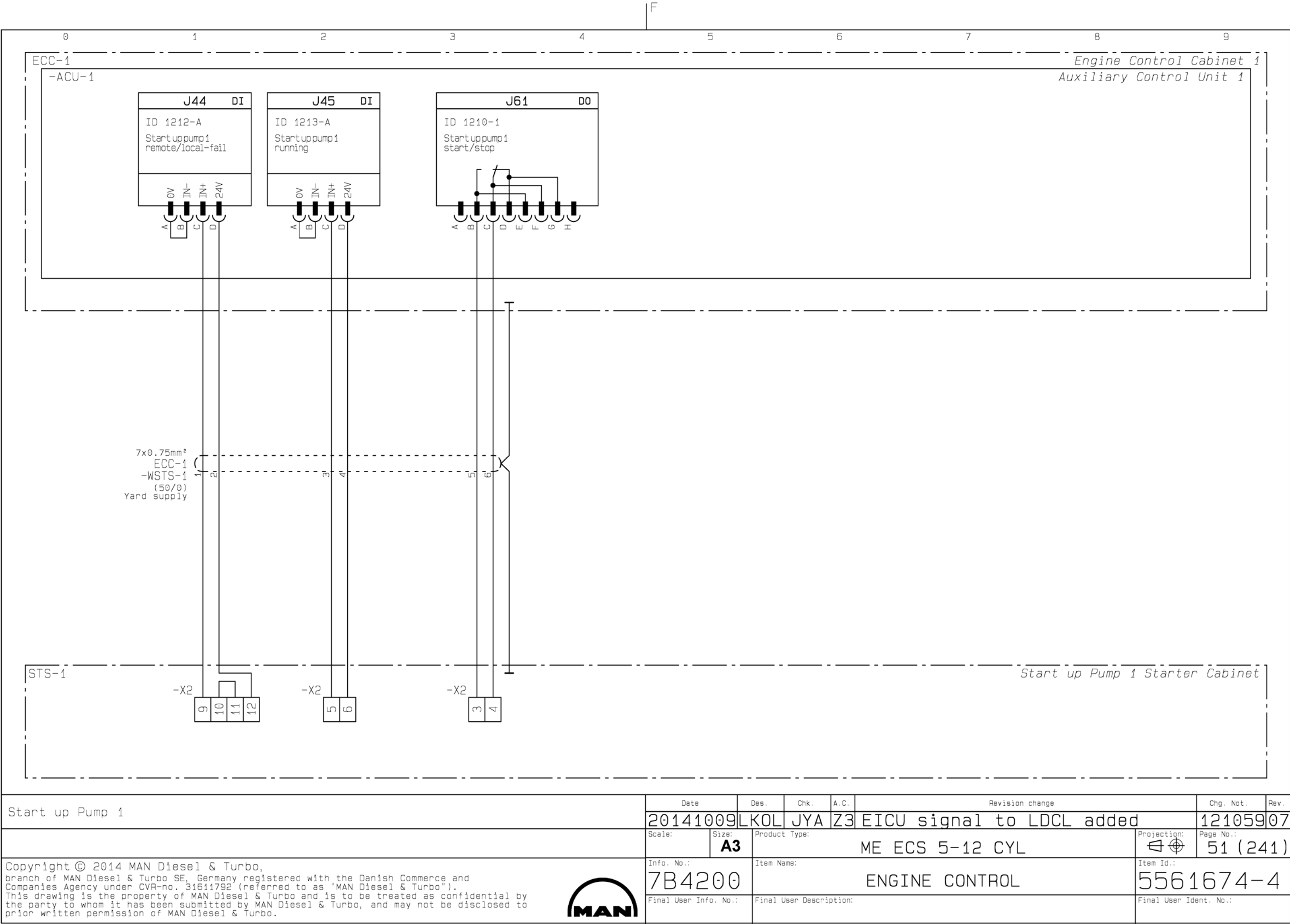
Page 50...57

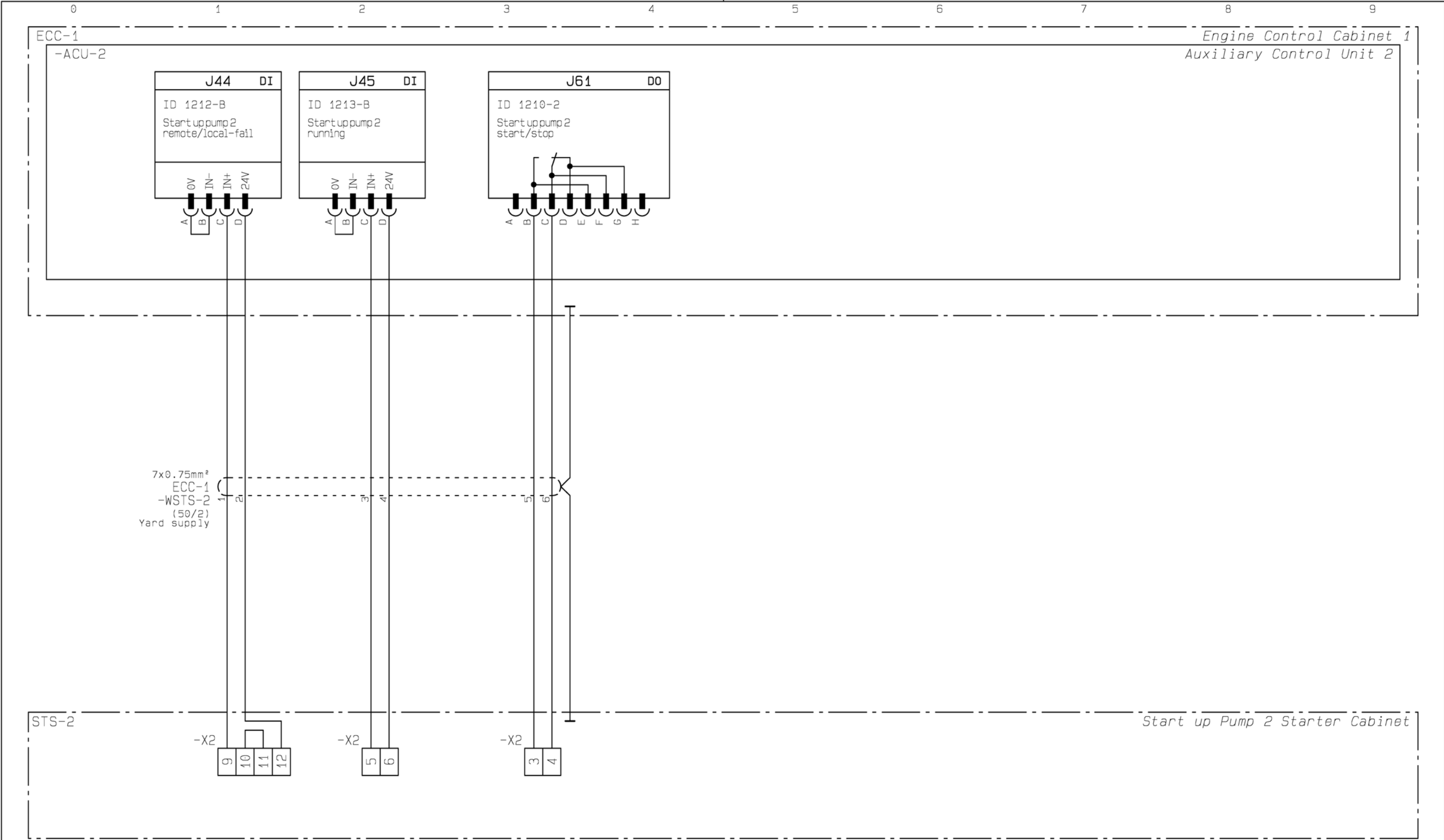
START-UP PUMPS & AUXILIARY BLOWERS	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 49 (241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		



Start-up Pumps and Auxiliary Blowers cable overview	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		







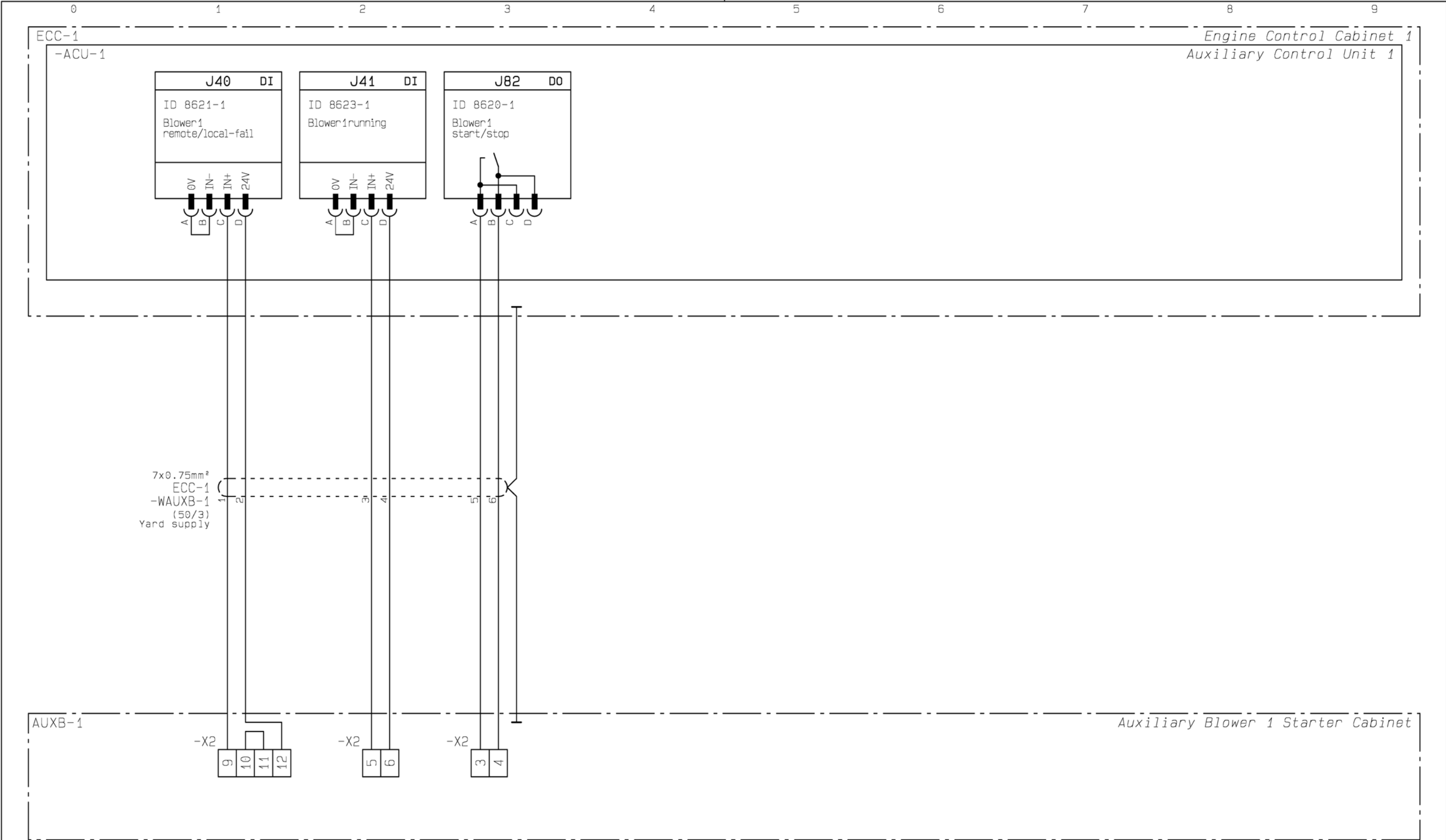
Start up Pump 2

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 52 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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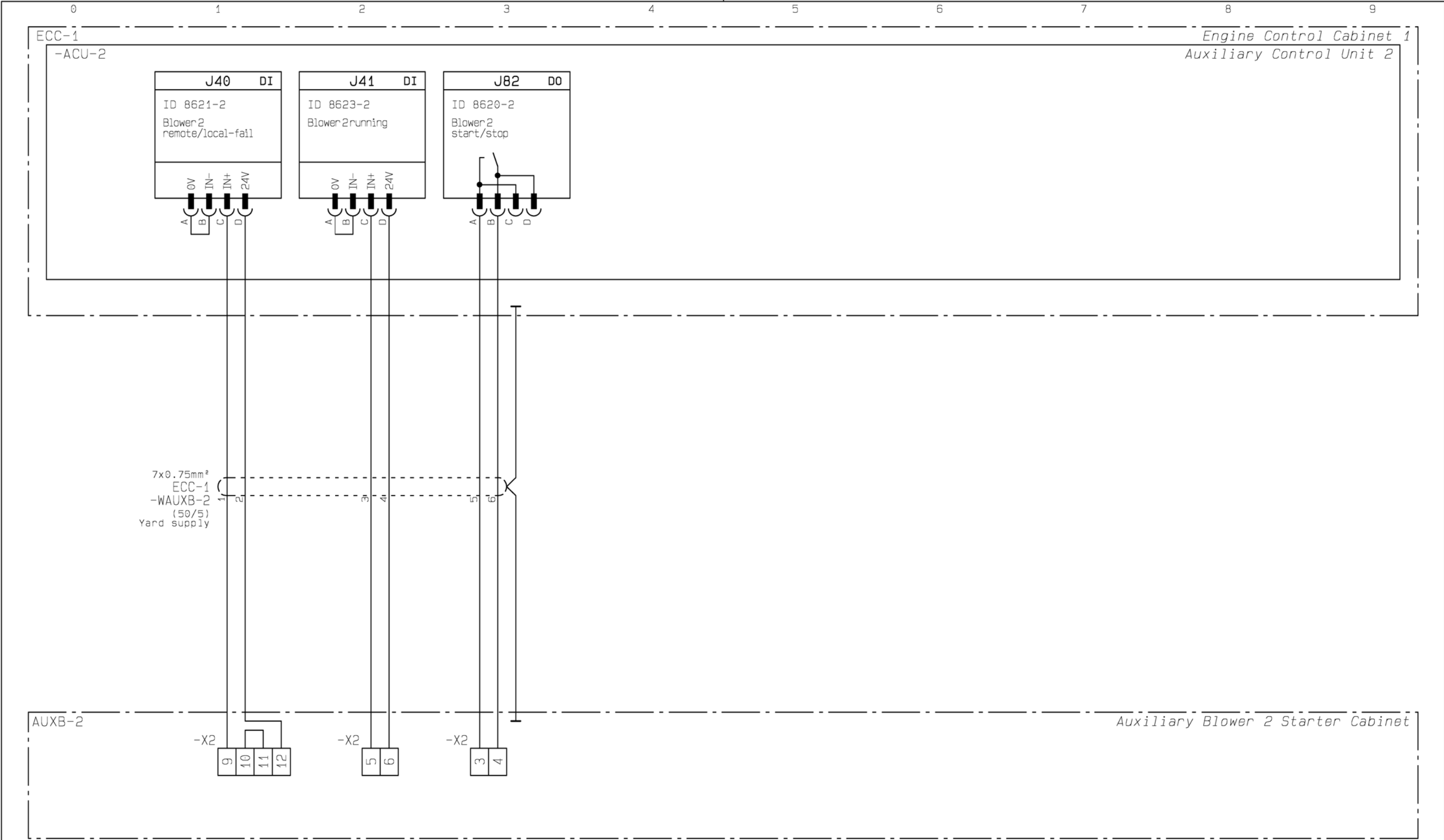
Auxiliary Blower 1

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 53 (241)
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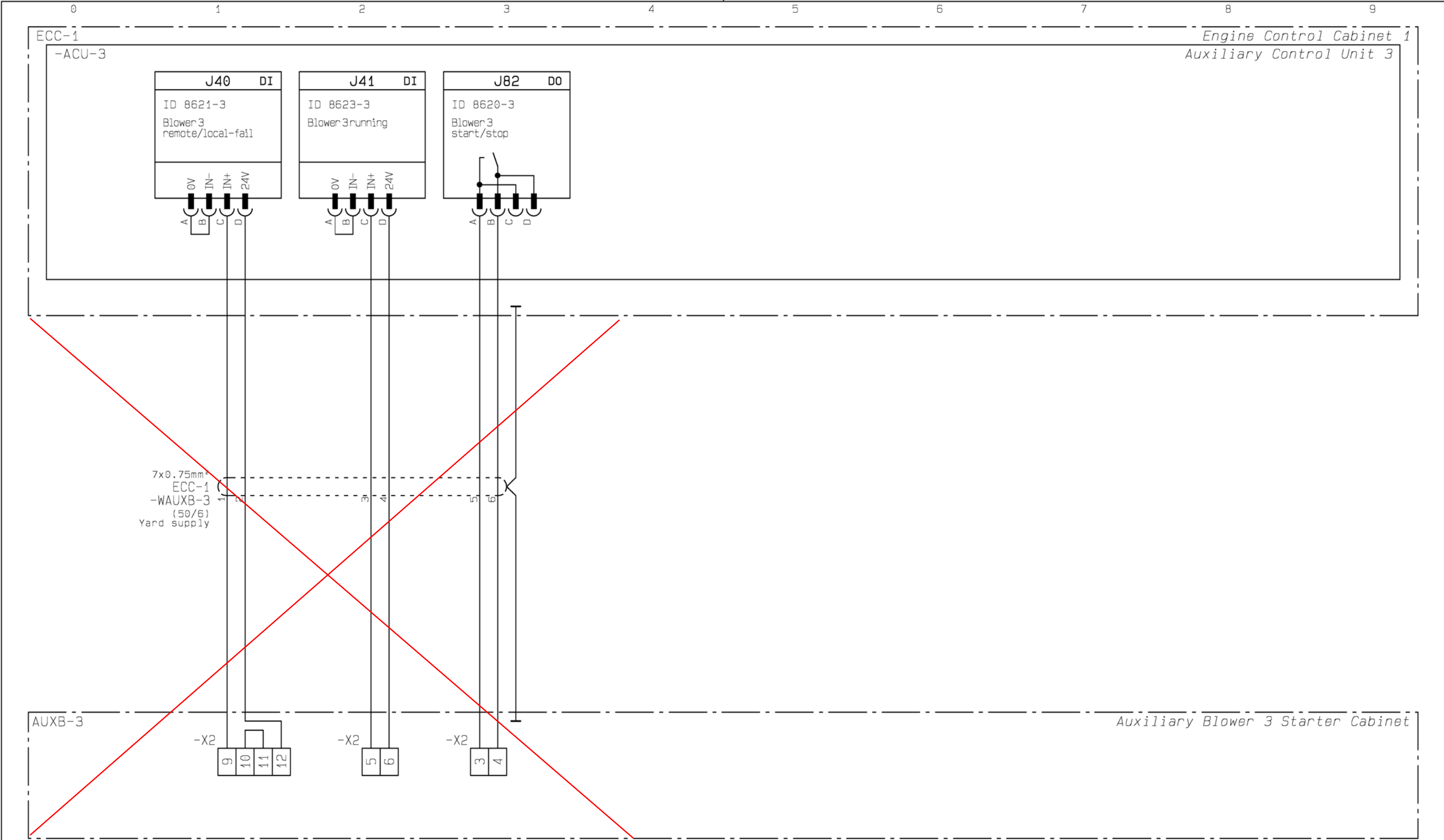
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary Blower 2

Auxiliary Blower 2	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.	
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07	
		Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 54 (241)		
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		Final User Info. No.:		Final User Description:			Final User Ident. No.:			

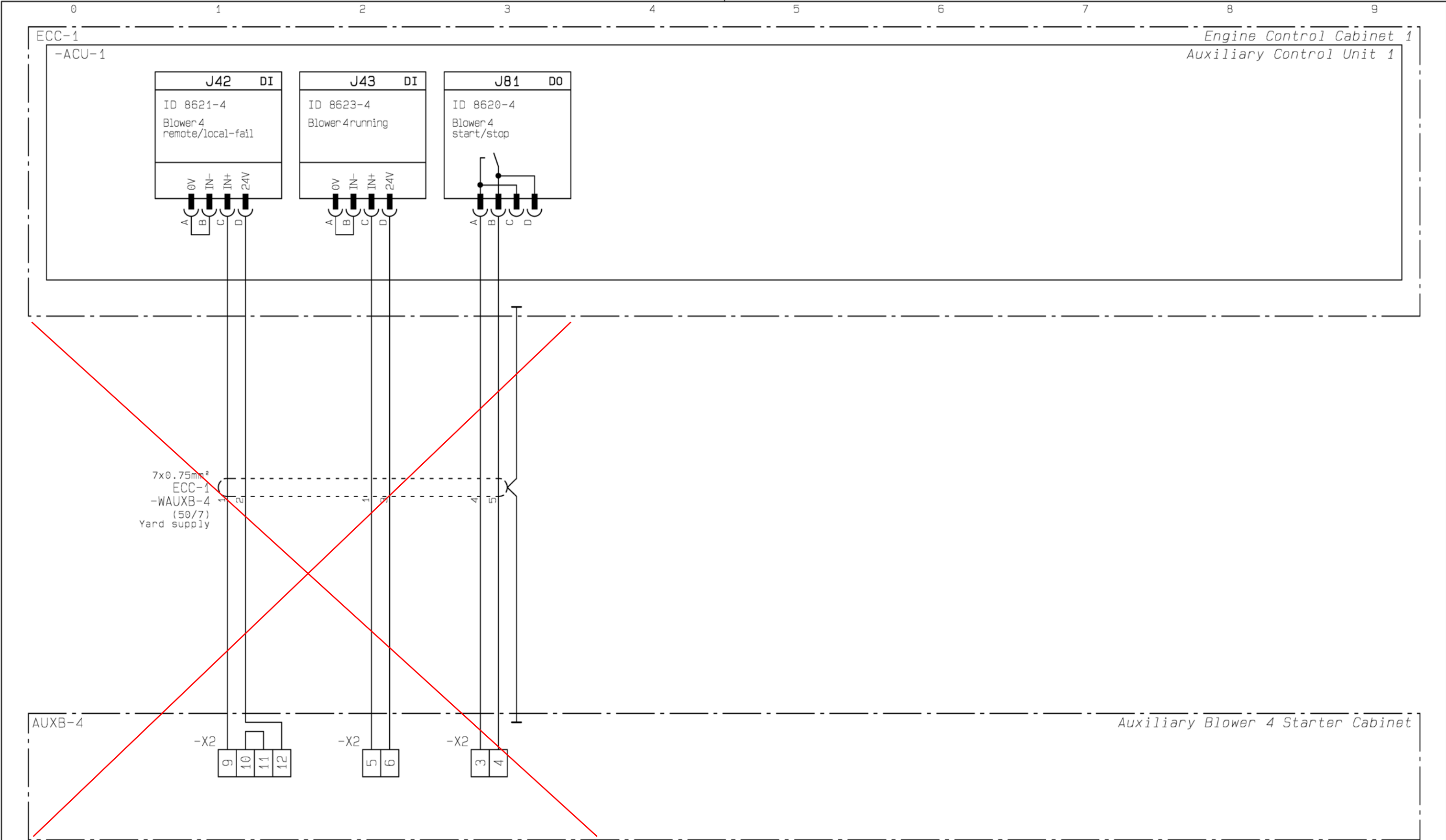
CAD Drawing - do not correct by hand - PCS Drawing



Auxiliary Blower 3

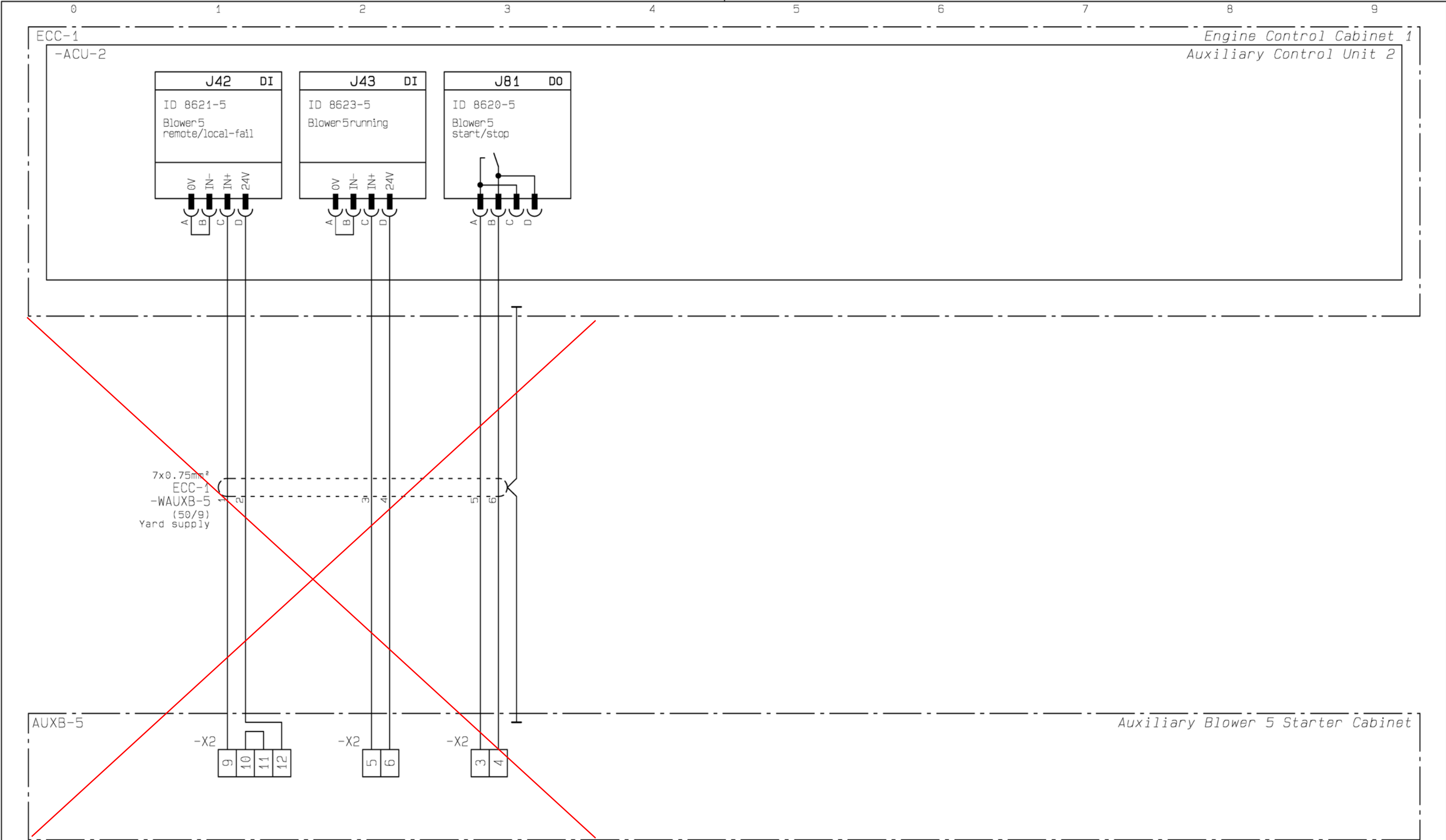
Auxiliary Blower 3	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				55 (241)
	Info. No.:			Item Name:			Item Id.:
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	Final User Info. No.:			Final User Description:			Final User Ident. No.:





Auxiliary Blower 4	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 56 (241)
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			7B4200		ENGINE CONTROL		5561674-4	
			Final User Info. No.:		Final User Description:		Final User Ident. No.:	





Auxiliary Blower 5	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 57 (241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

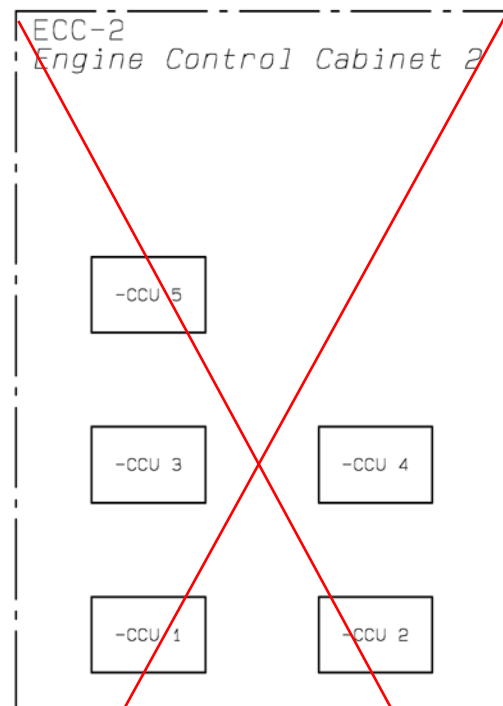




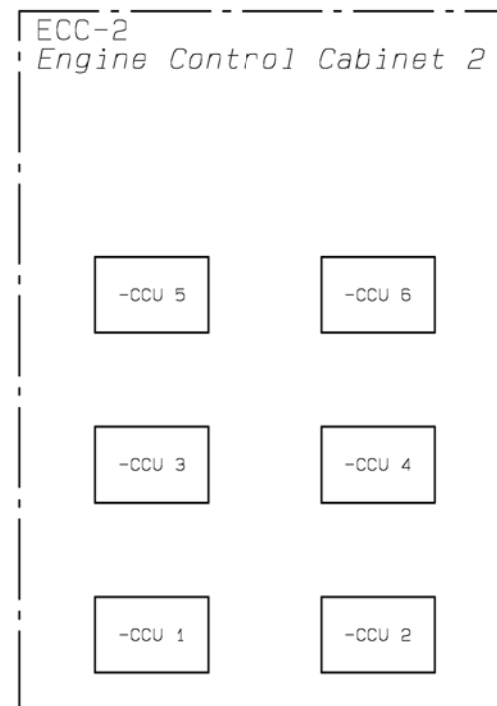
6 CYLINDER CONTROL

Page 59...65

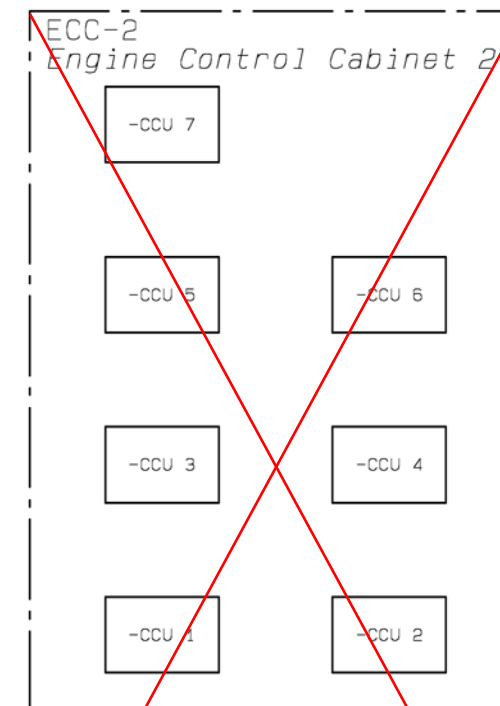
CYLINDER CONTROL	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 58 (241)
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:	
								



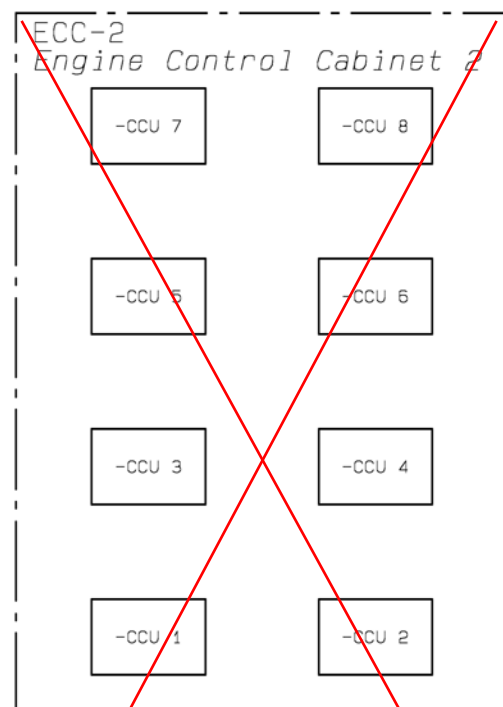
5 CYLINDERS
Configuration



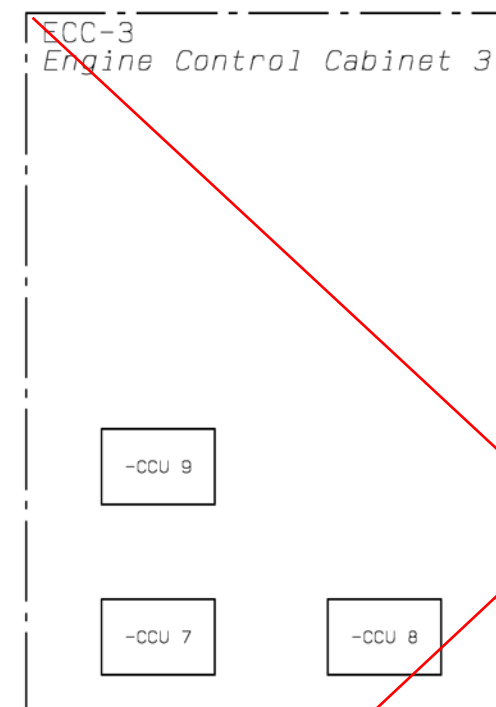
6 CYLINDERS
Configuration



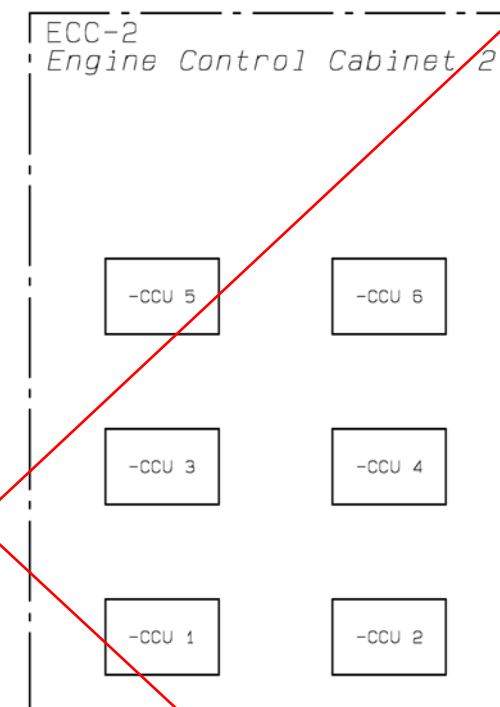
7 CYLINDERS
Configuration



8 CYLINDERS
Configuration



9 CYLINDERS
(3 + 6) Configuration

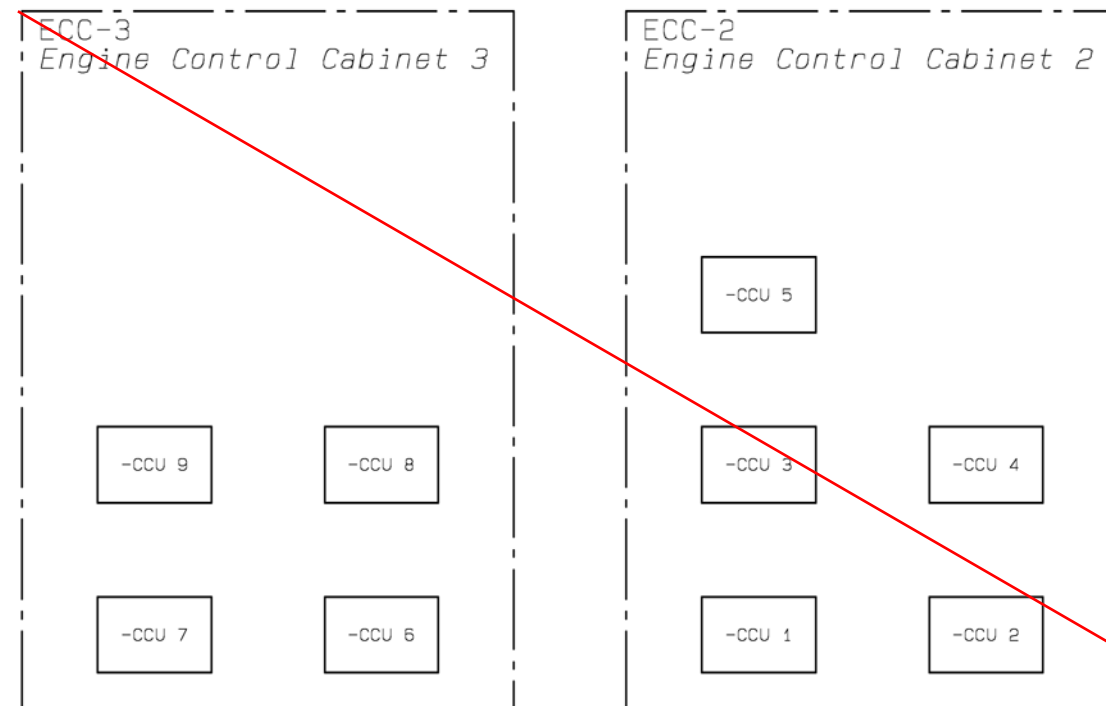


Location of CCU's according to number of cylinders 5-9

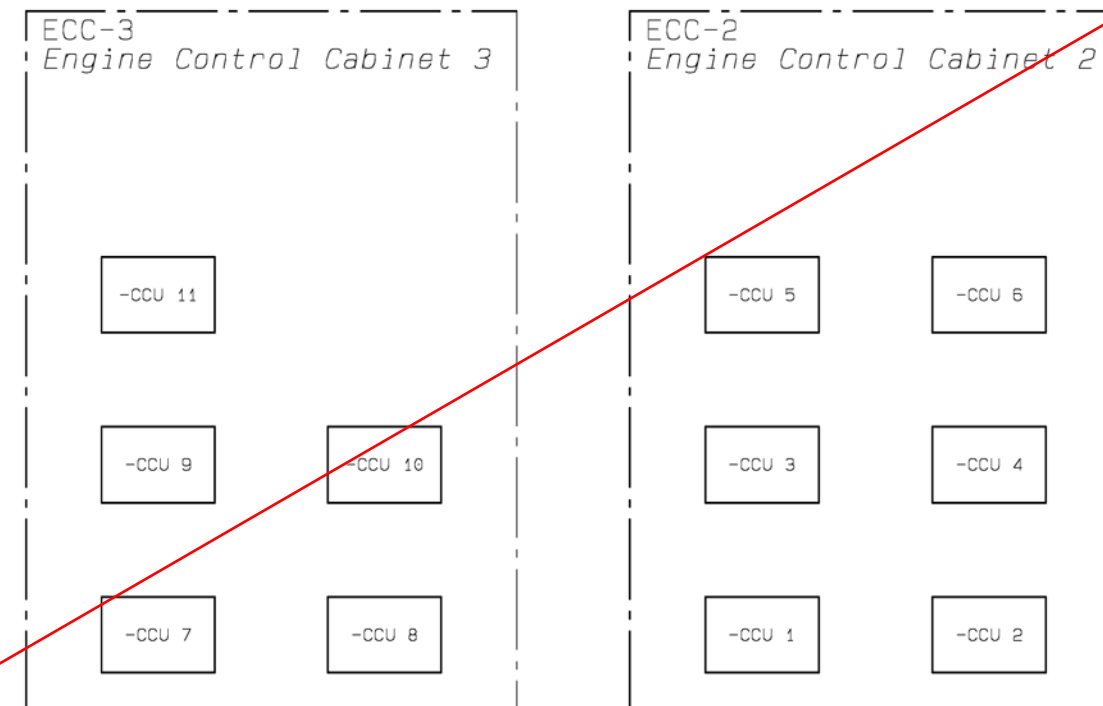
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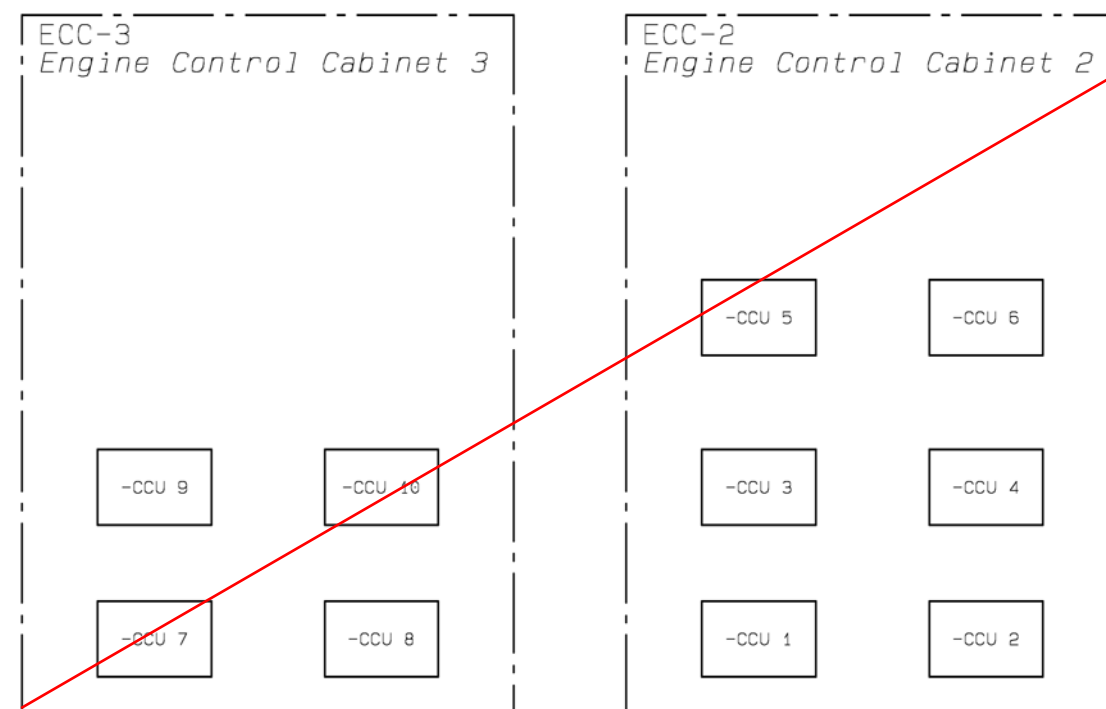
Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				59 (241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



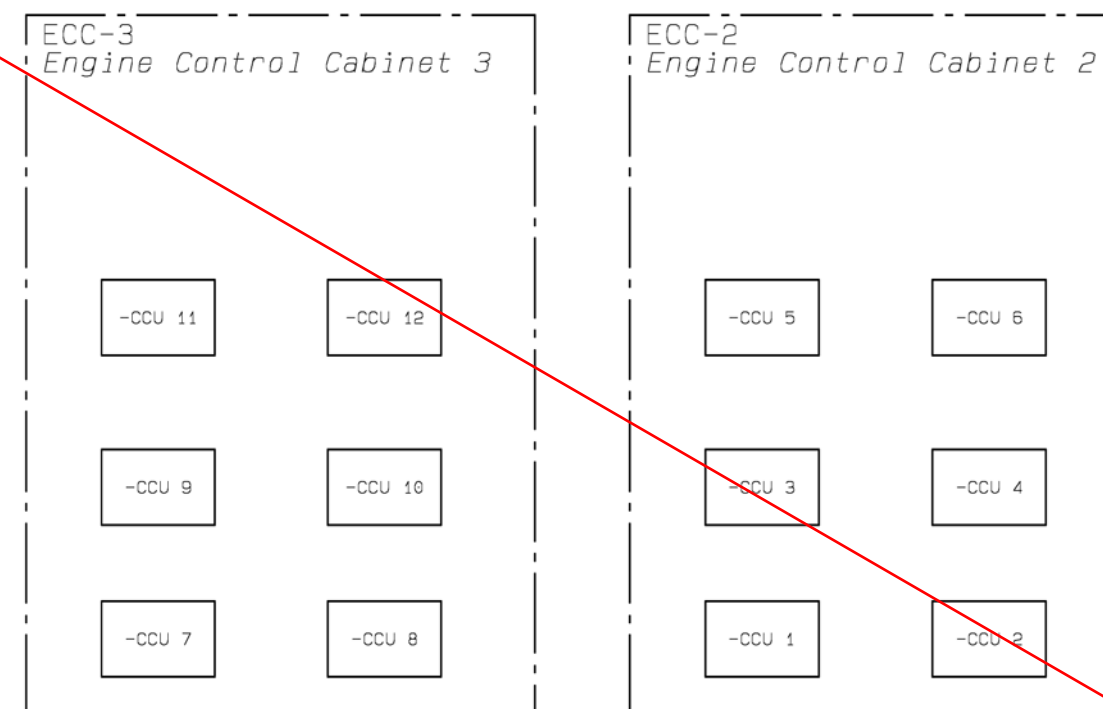
9 CYLINDERS
(4 + 5) Configuration



11 CYLINDERS
Configuration



10 CYLINDERS
Configuration



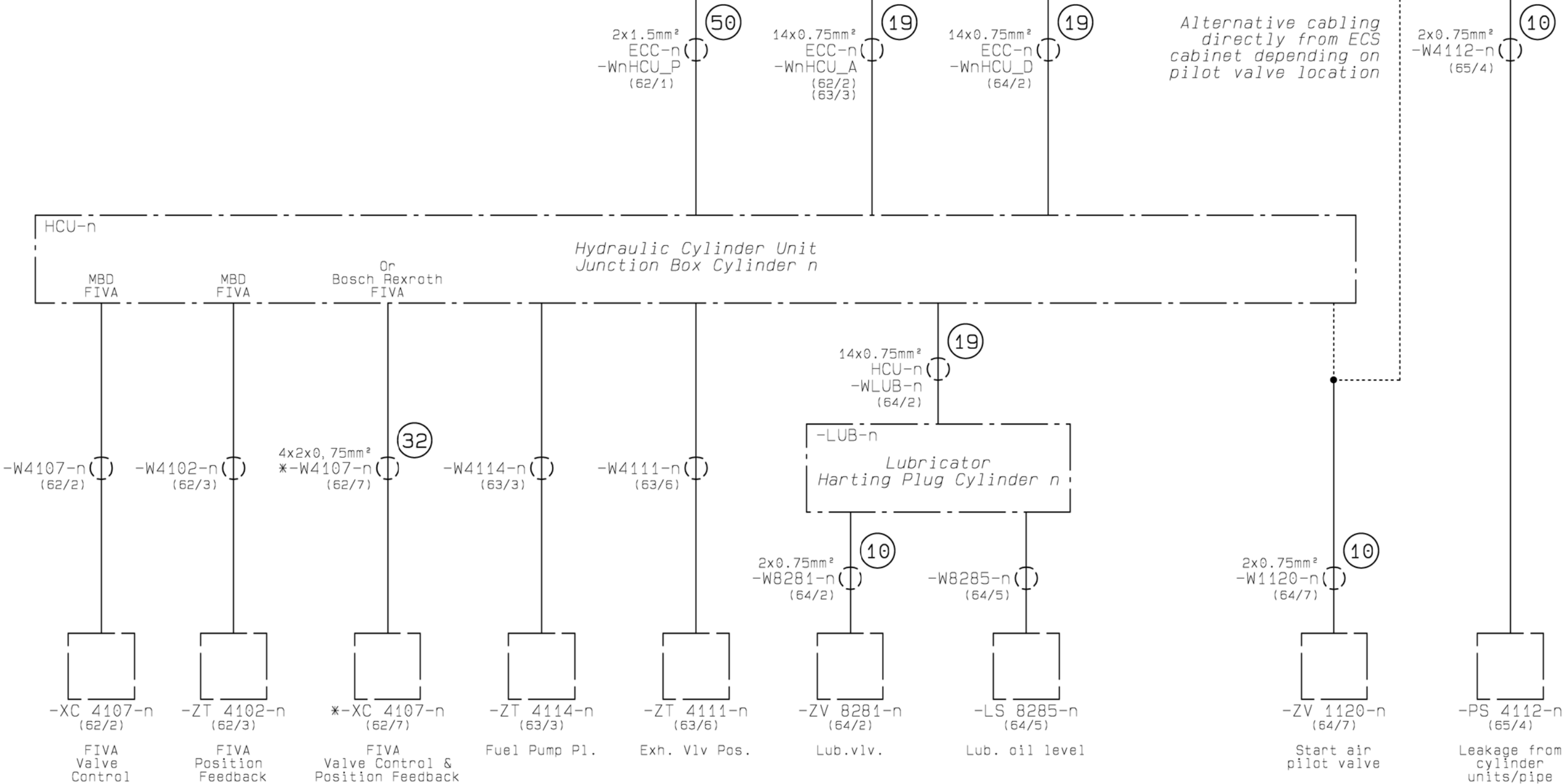
12 CYLINDERS
Configuration

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

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				60 (241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

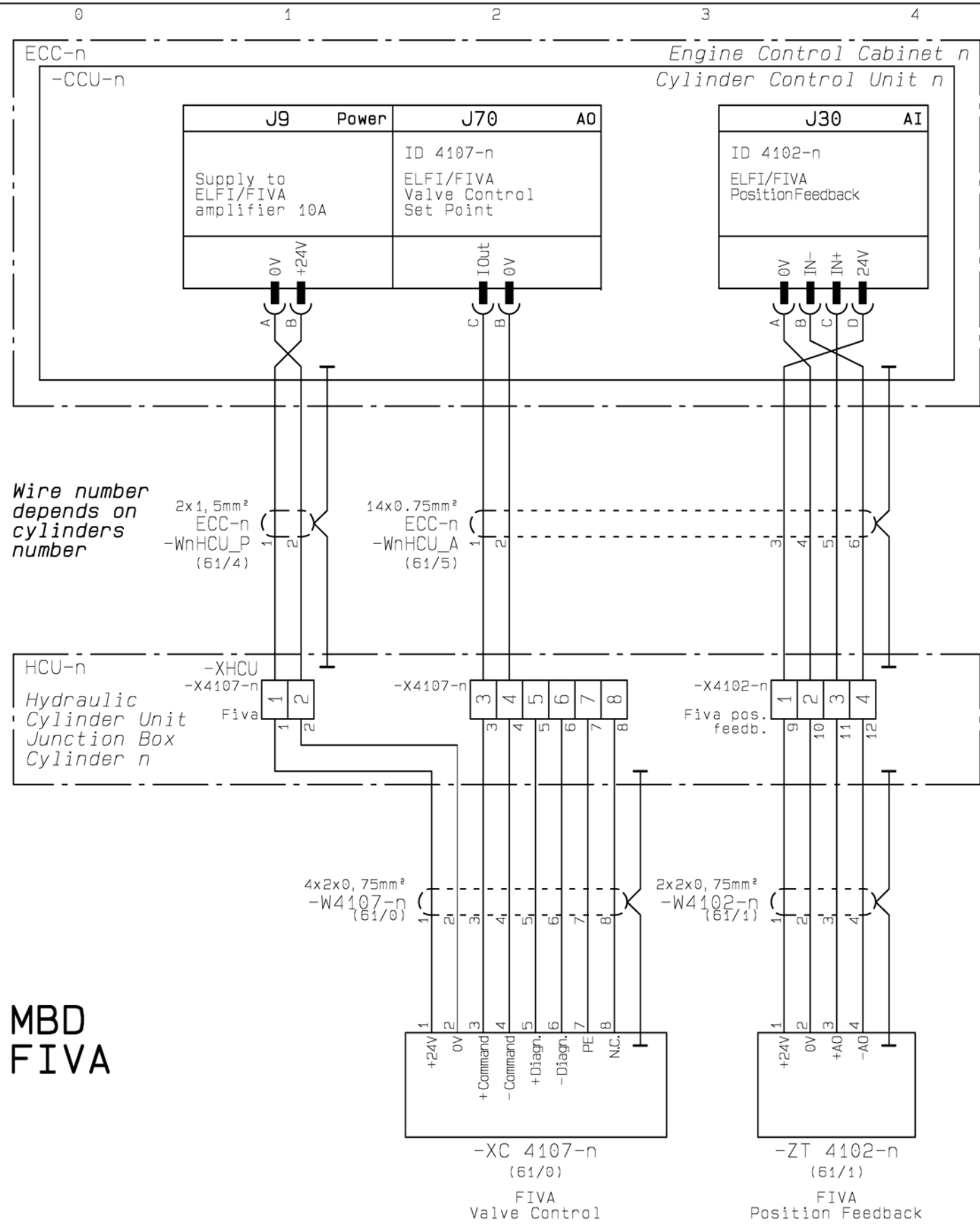


Hydraulic Cylinder Unit cable overview for each cylinder

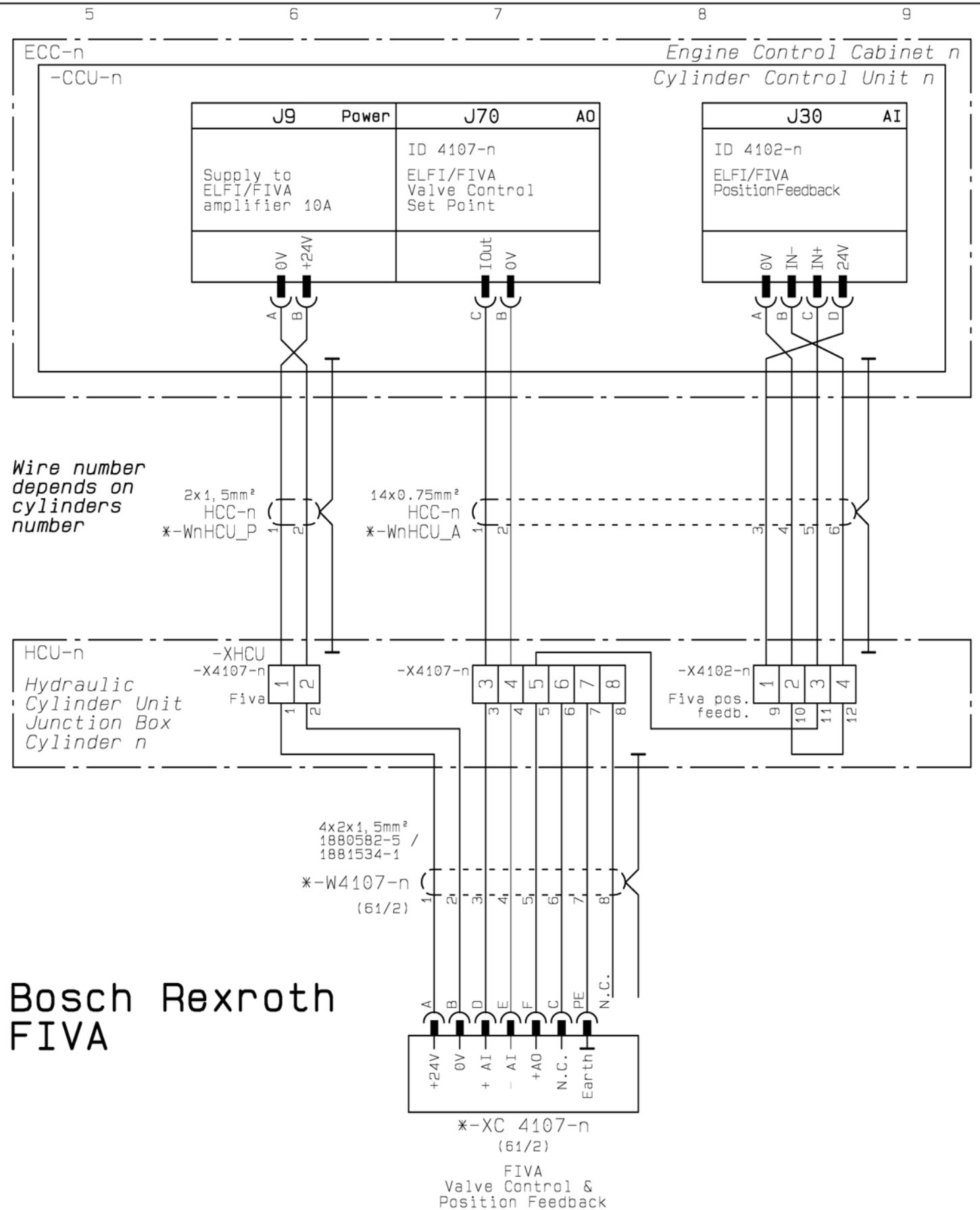
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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 61 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



MBD
FIVA



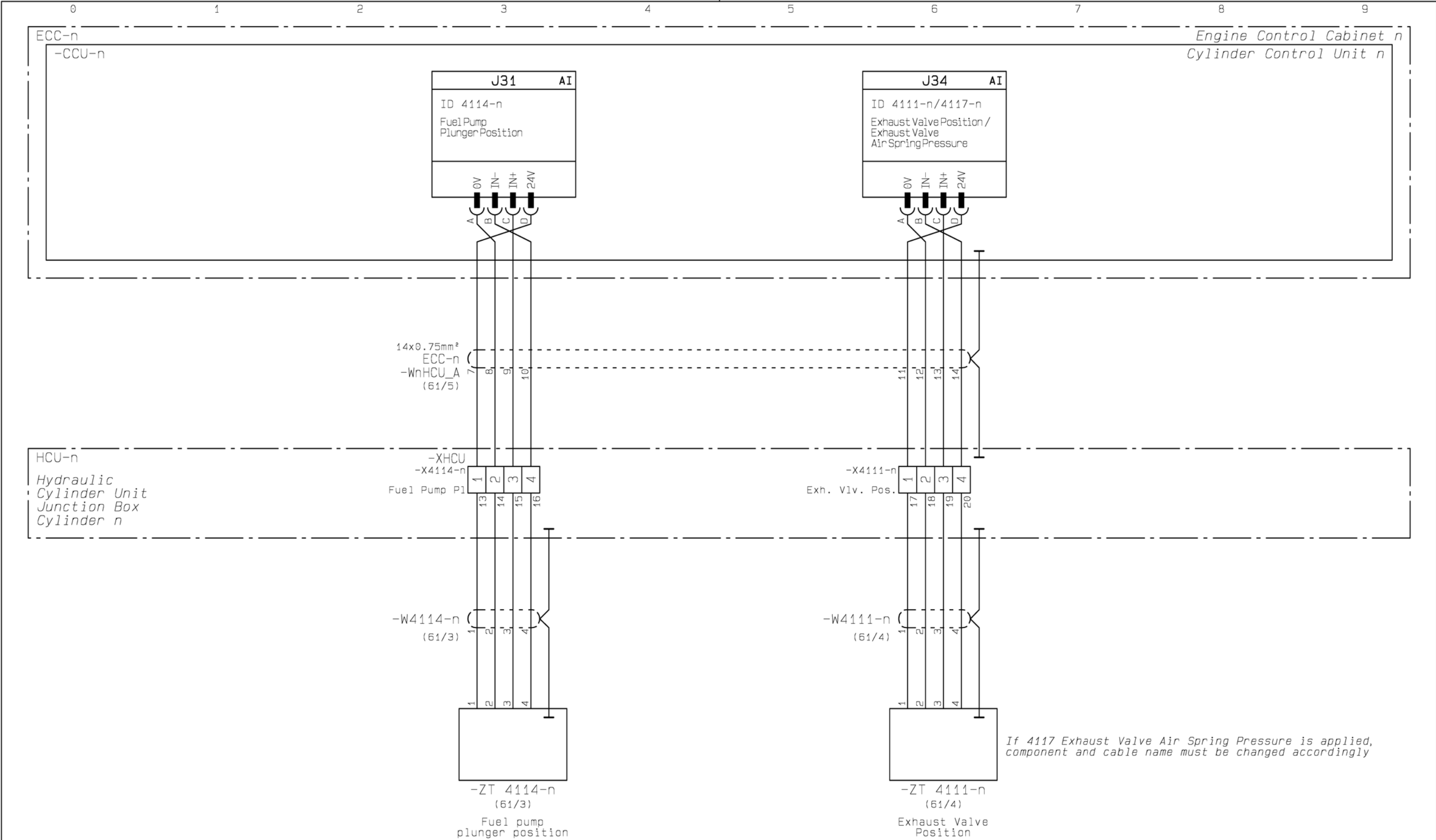
Bosch Rexroth
FIVA

Cylinder n - MBD FIVA or Bosch Rexroth FIVA, control and feedback

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type:	ME ECS 5-12 CYL			Projection: 
Info. No.:	Item Name:			Item Id.:		
7B4200	ENGINE CONTROL			5561674-4		
Final User Info. No.:	Final User Description:			Final User Ident. No.:		

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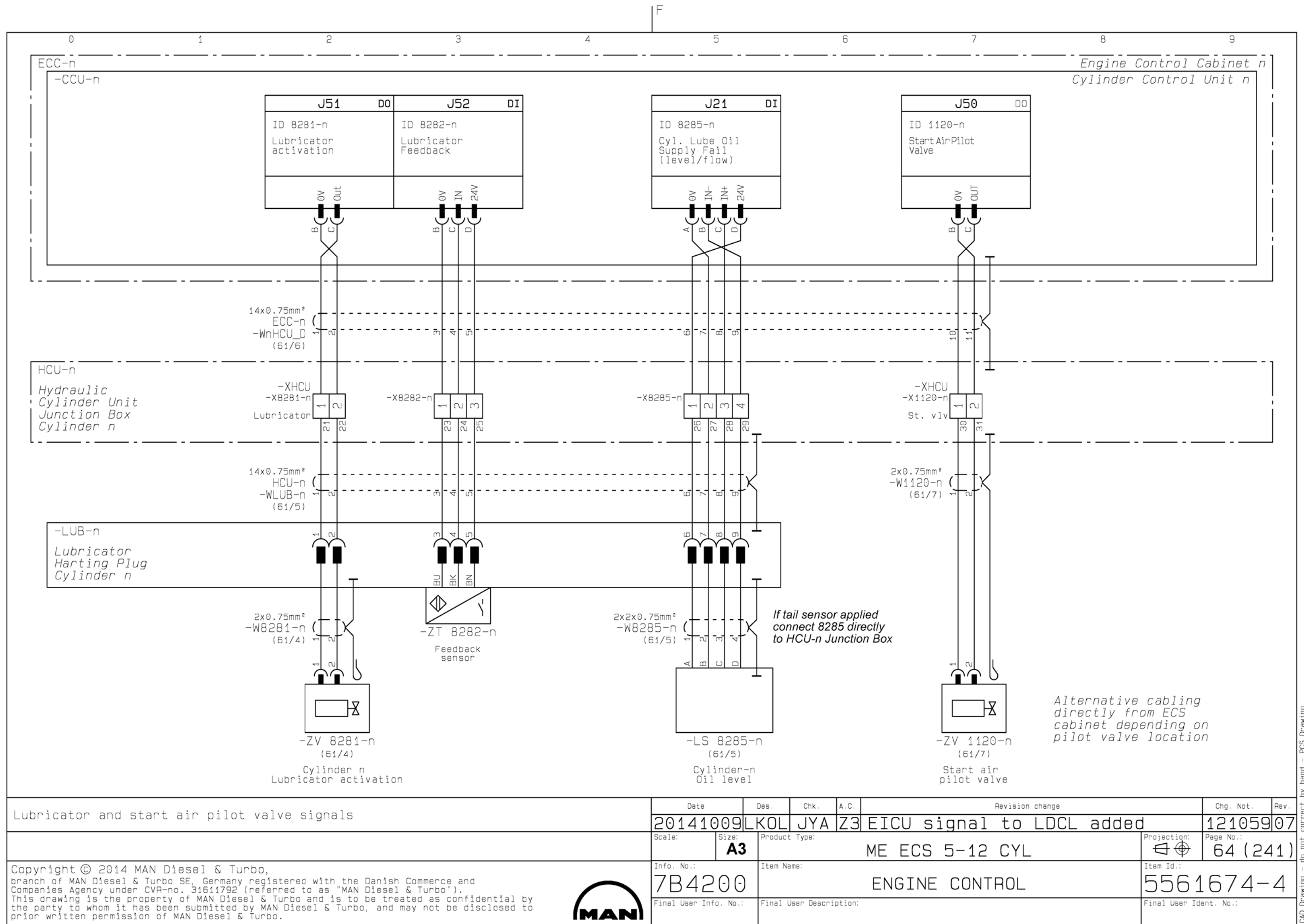


Cylinder n Fuel pump plunger and exhaust valve position

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 63 (241)
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Final User Info. No.:		Final User Description:			Final User Ident. No.:	

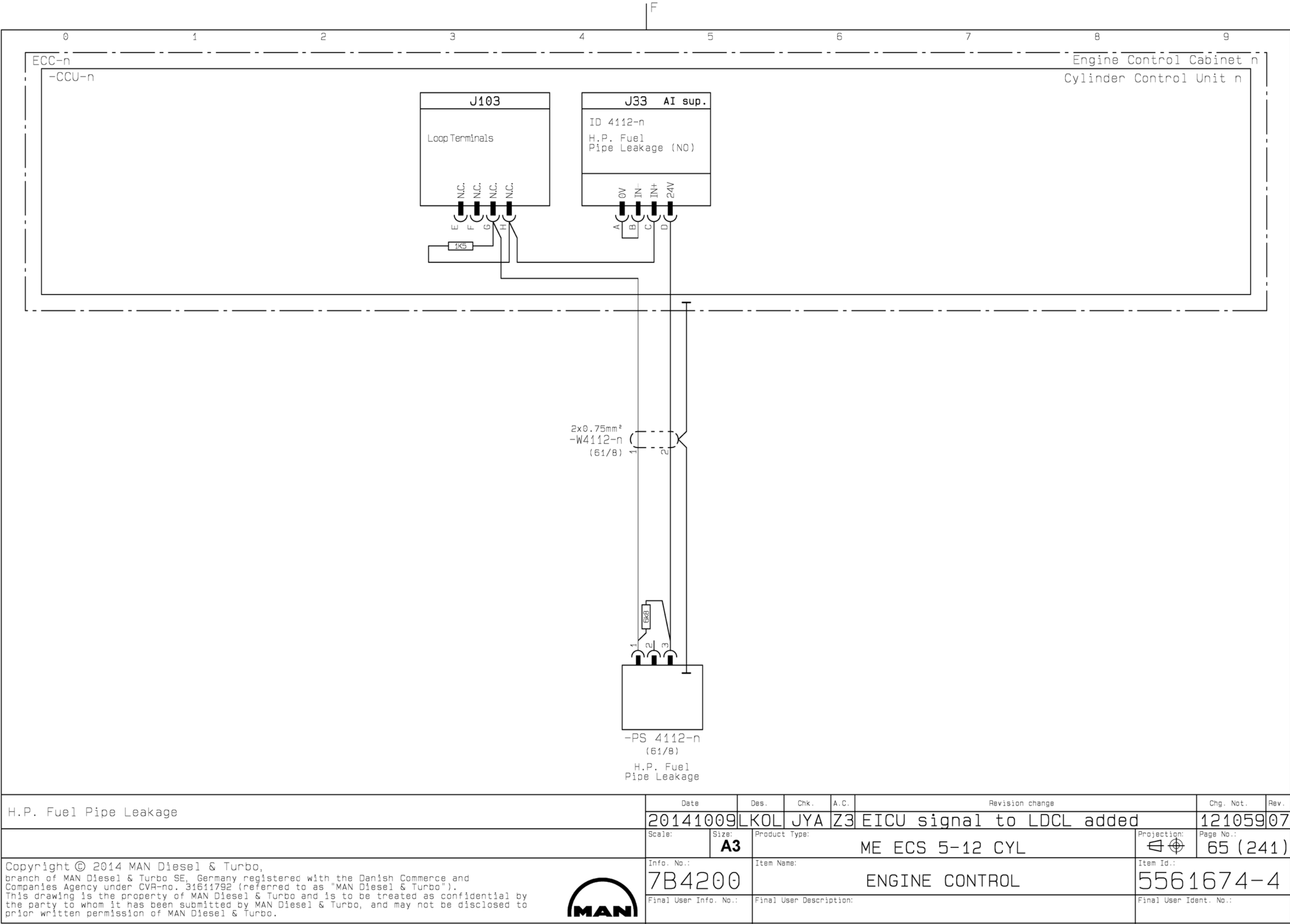


Lubricator and start air pilot valve signals

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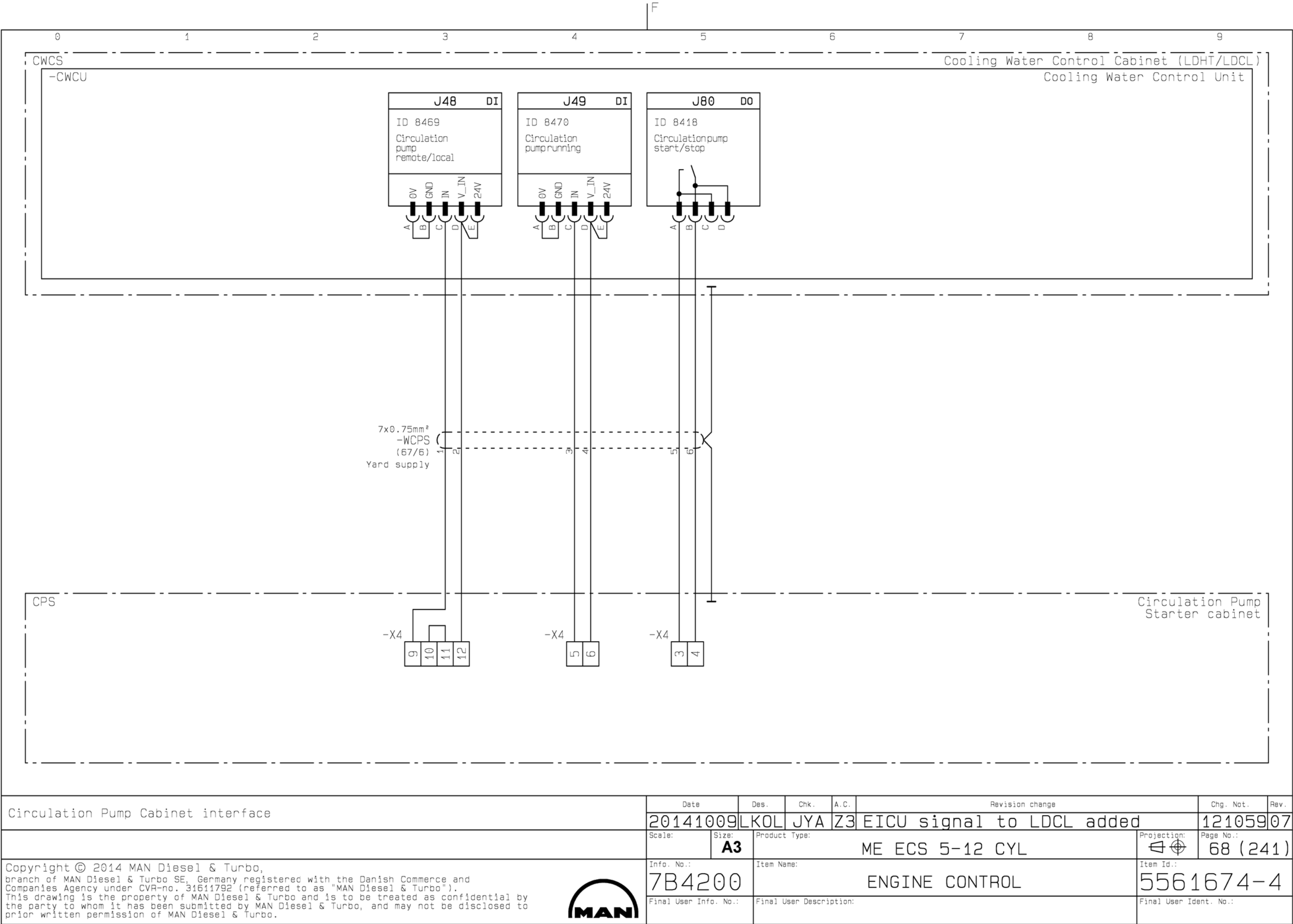
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Info. No.: 7B4200	Item Name:	ENGINE CONTROL			Item Id.: 5561674-4	Page No.: 64 (241)
Final User Info. No.:	Final User Description:				Final User Ident. No.:	



7 LDCL / LDHT

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LDCL / LDHT	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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		A3	ME ECS 5-12 CYL					66 (241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

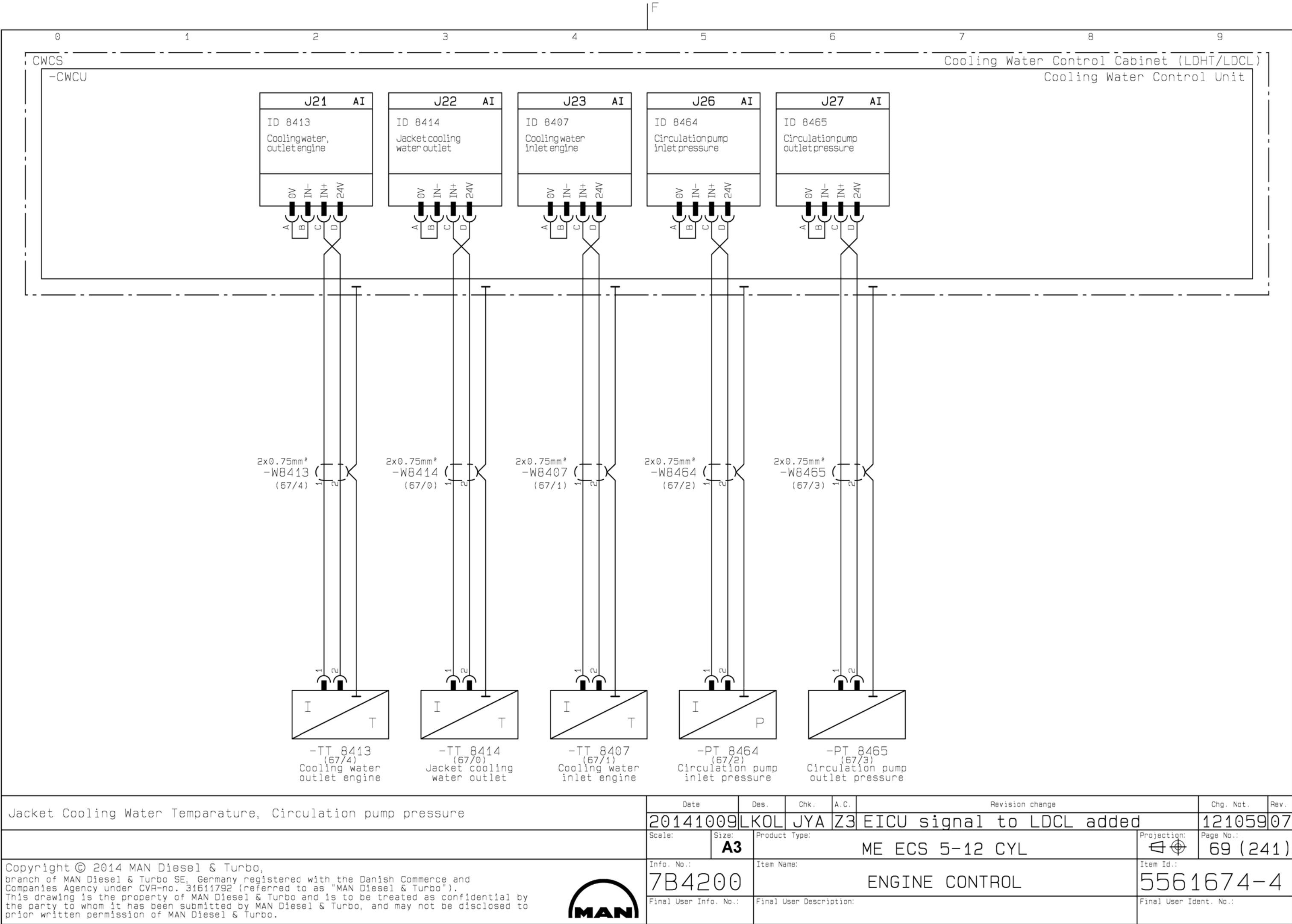


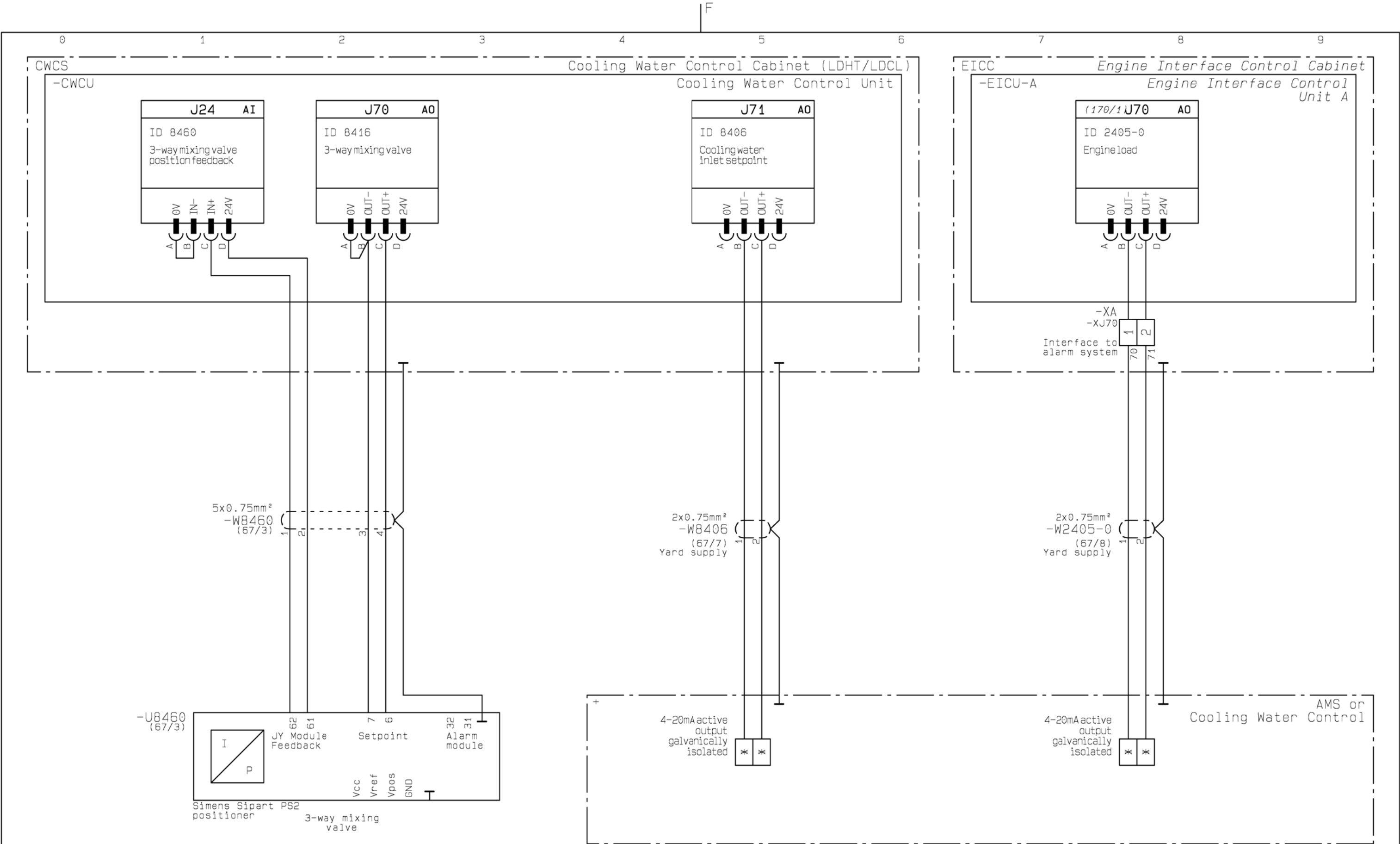
Circulation Pump Cabinet interface

Circulation Pump Cabinet interface				Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.	
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907		
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				Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4		
				Final User Info. No.:		Final User Description:			Final User Ident. No.:		

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3-way valves and AMS	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 70 (241)	
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			Final User Info. No.:		Final User Description:			Final User Ident. No.:	

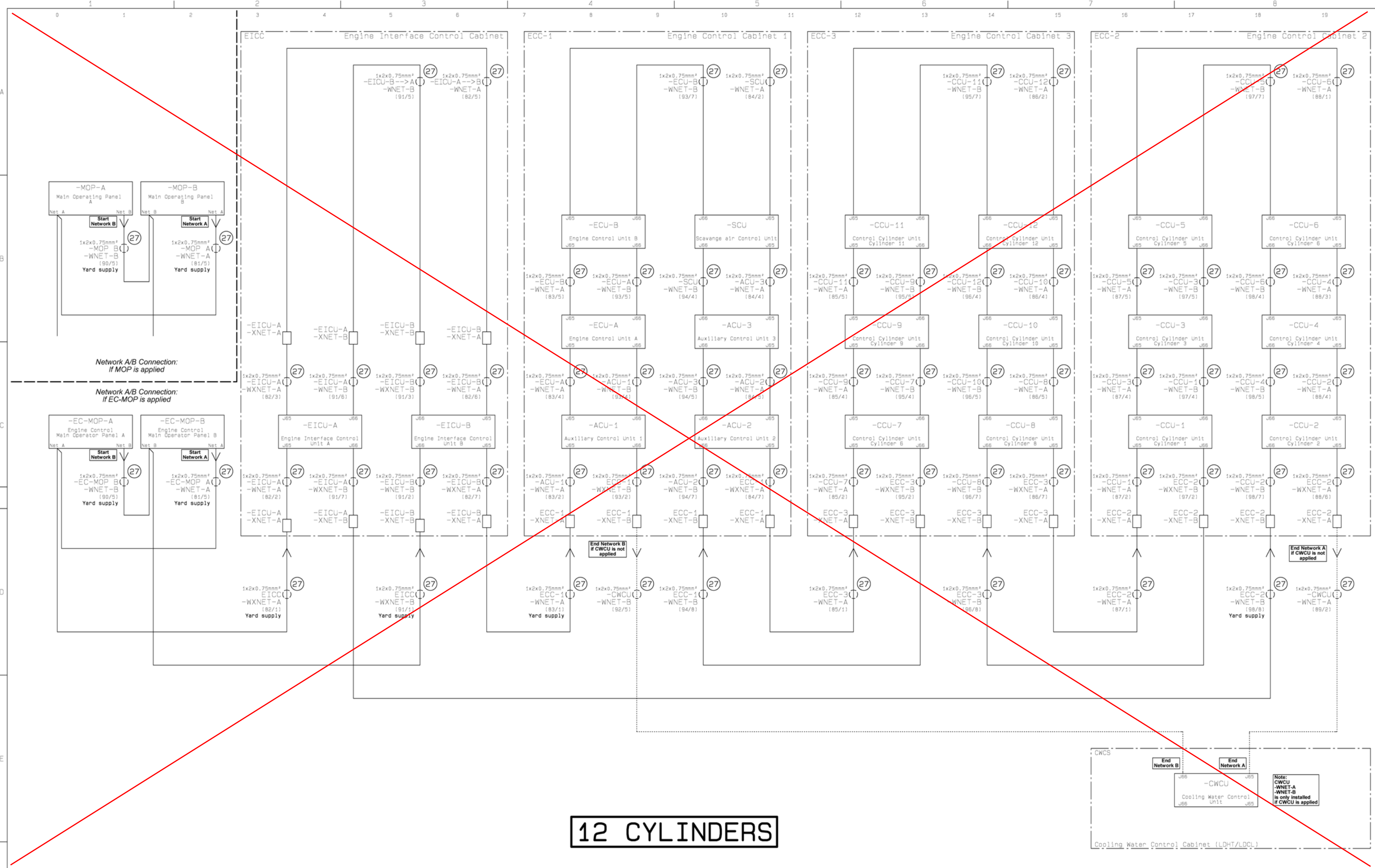


8 NETWORK A & NETWORK B

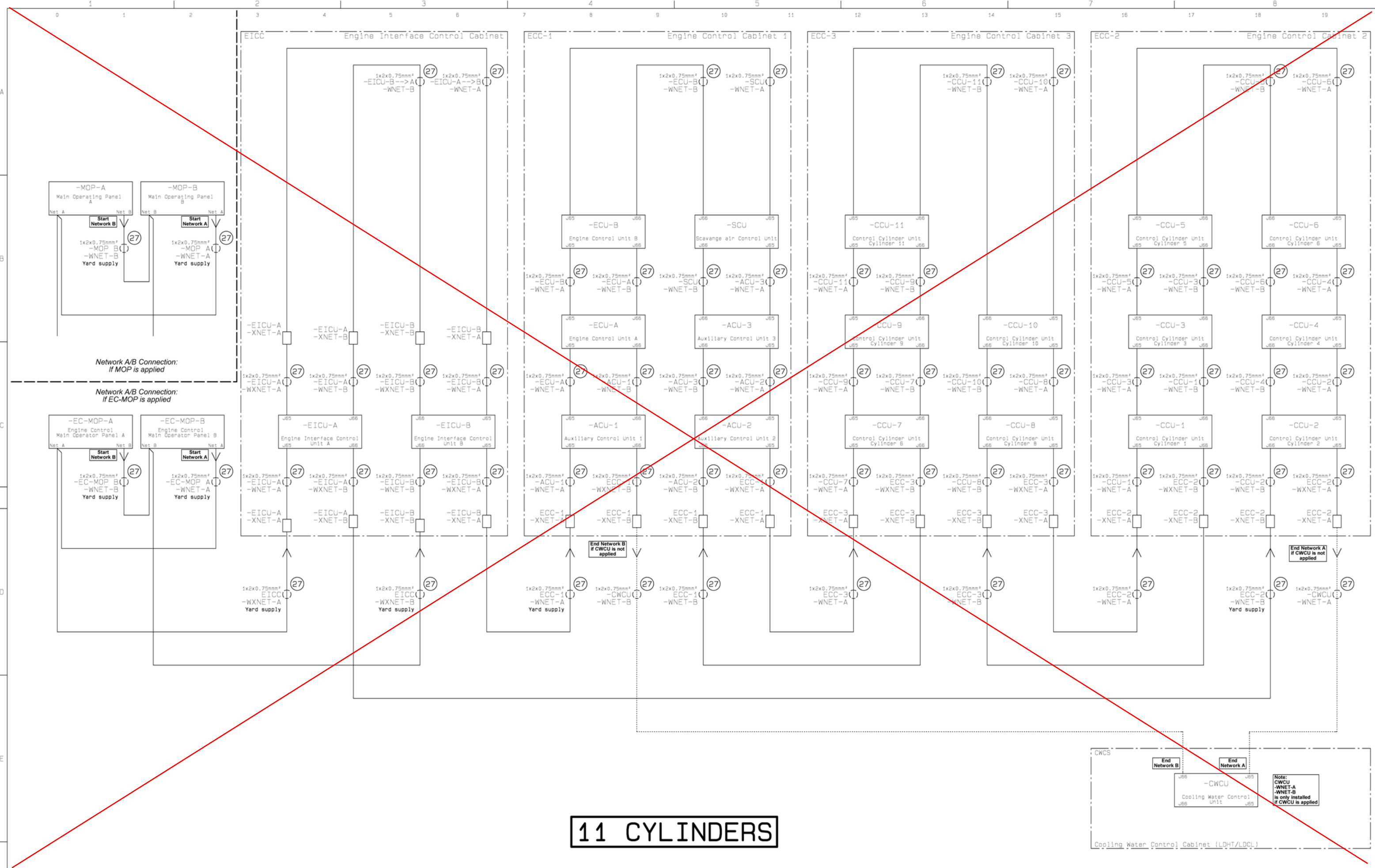
Page 72...98

NETWORK A & NETWORK B	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





ME ECS - Layout of Cables to/from Network A & Network B - 12 Cylinder	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
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		A1	ME ECS 5-12 CYL				72 (241)
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7B4200				ENGINE CONTROL	5561674-4		
Final User Info. No.:				Final User Description:	Final User Ident. No.:		

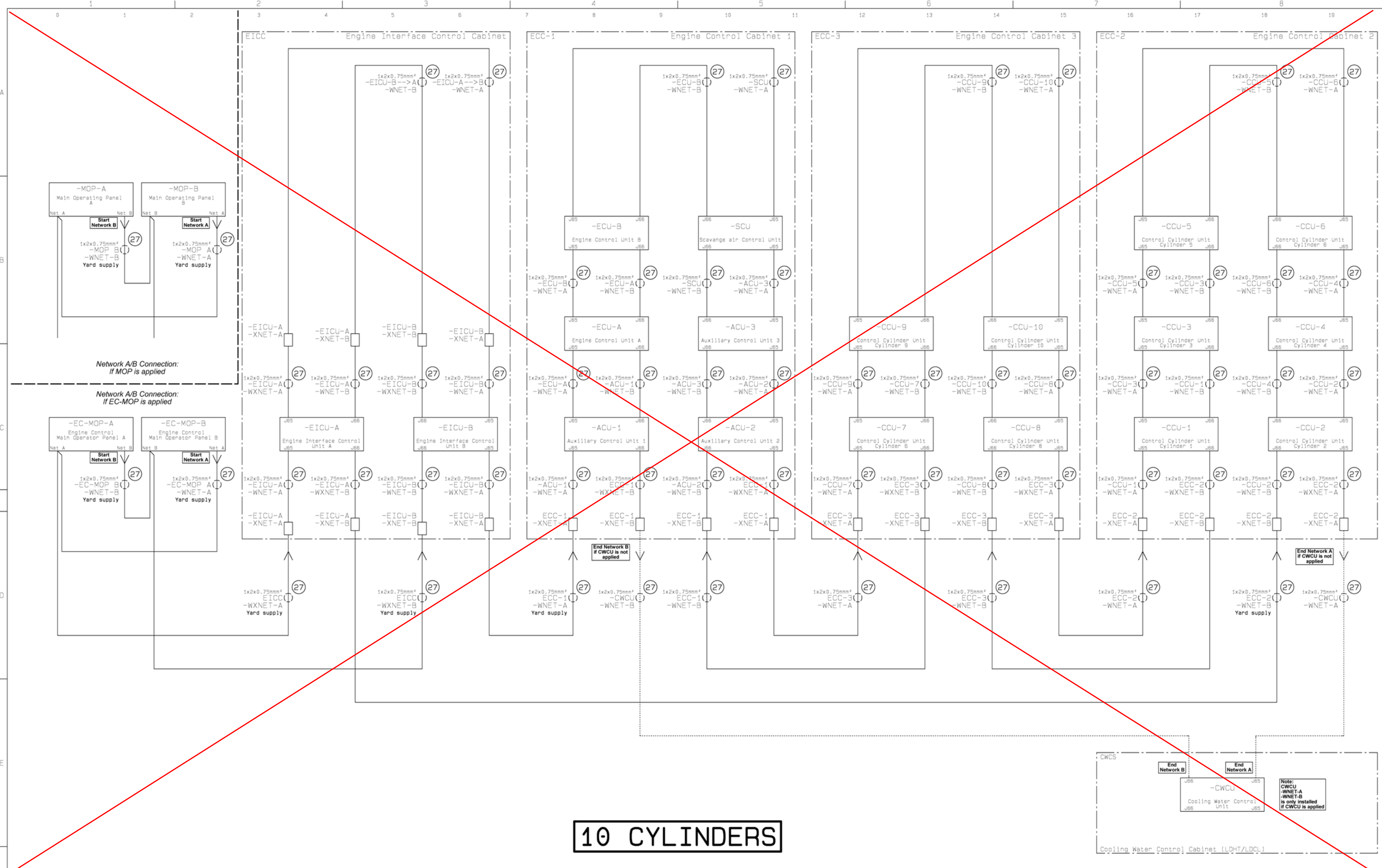


ME ECS - Layout of Cables to/from Network A & Network B - 11 Cylinder						Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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						Info. No.: 7B4200		Item Name: ENGINE CONTROL		Item Id.: 5561674-4			
						Final User Info. No.:		Final User Description:		Final User Ident. No.:			

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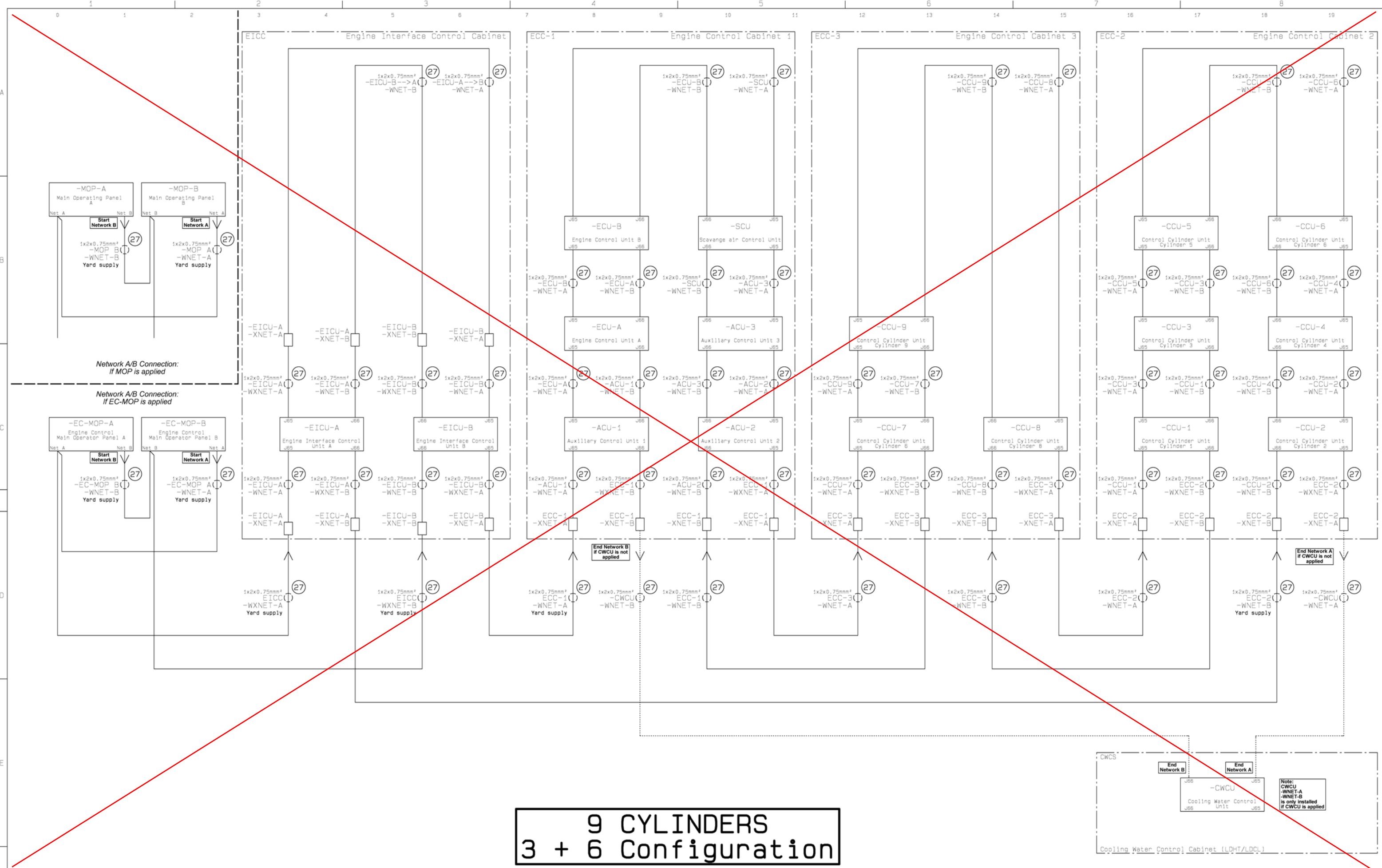


ME ECS - Layout of Cables to/from Network A & Network B - 10 Cylinder				Date	Des.	Chk.	A.C.	Revision change		Chg. Net.	Rev.
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				Scale:	Size:	Product Type:		Projection:		Page No.:	
					A1	ME ECS 5-12 CYL		74 (241)			
				Info. No.:		Item Name:		Item Id.:			
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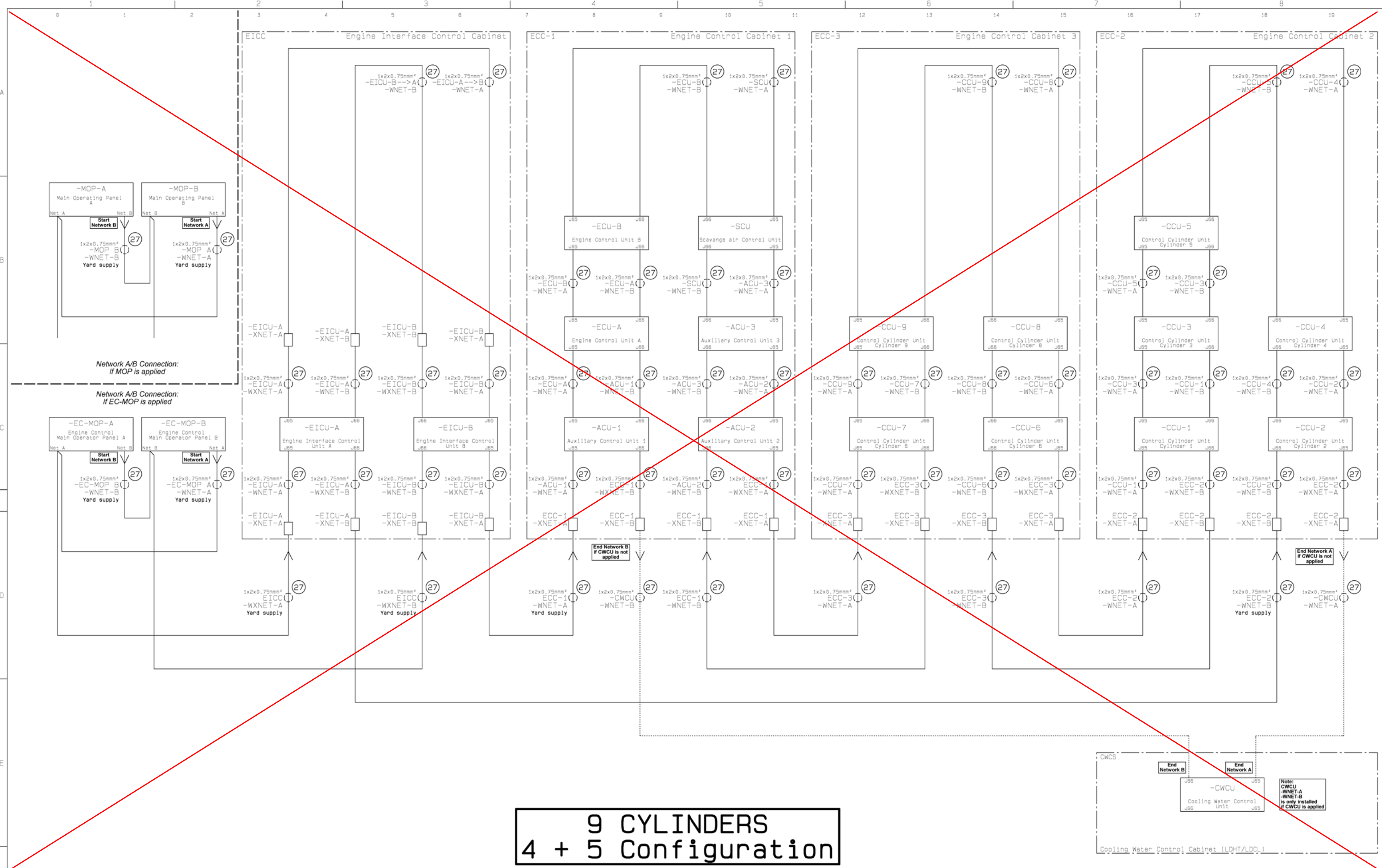
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CAD Drawing - do not correct by hand - PCS Drawing



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.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A1	ME ECS 5-12 CYL					75 (241)	
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Final User Info. No.:					Final User Description:		Final User Ident. No.:		



9 CYLINDERS
4 + 5 Configuration

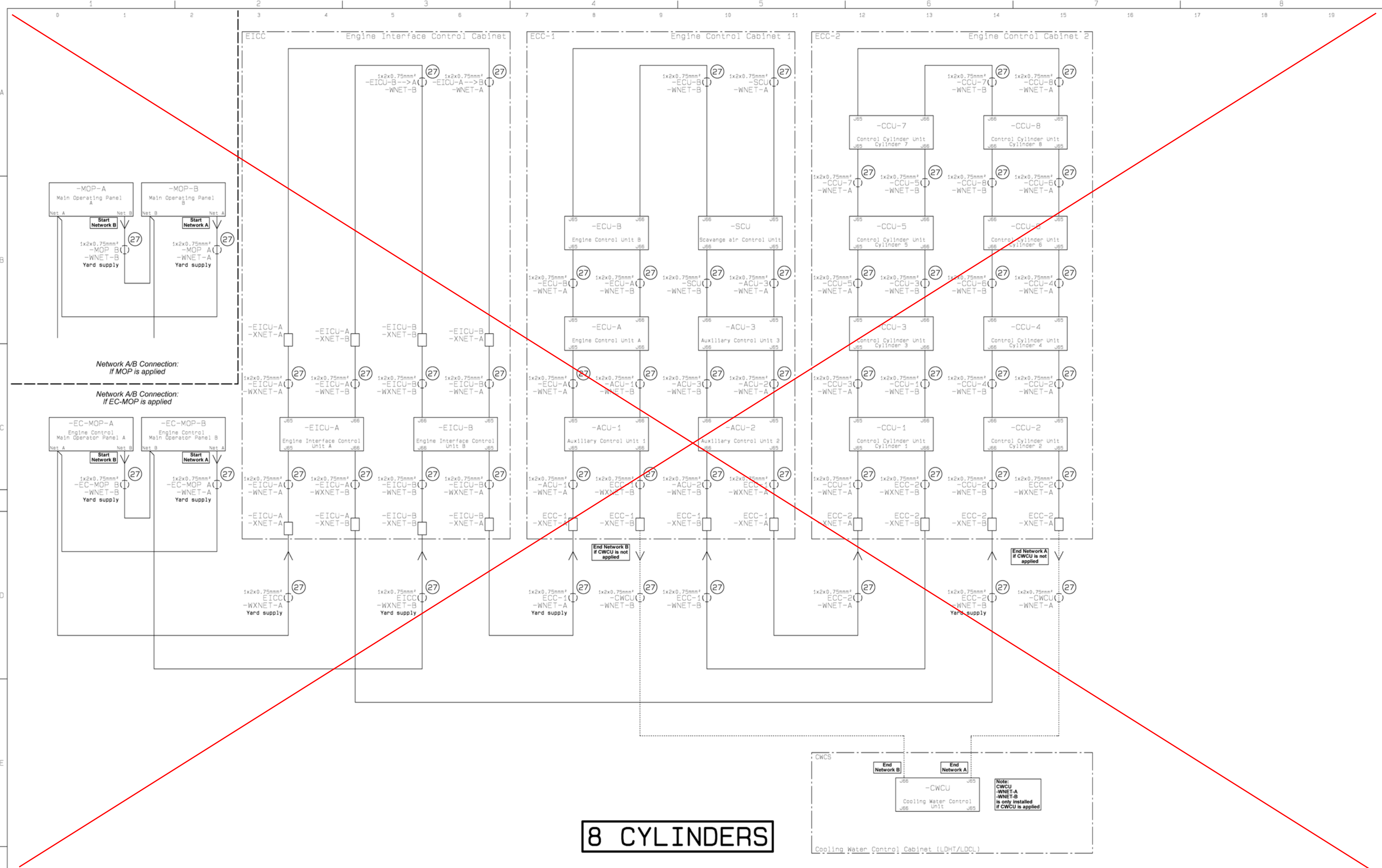
ME ECS - Layout of Cables to/from Network A & Network B - 9 Cylinder (4 + 5 Configuration)

				Scale:	Size:	Product Type:	Projection:	Page No.:
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				7B4200	ENGINE CONTROL		5561674-4	
				Final User Info. No.:	Final User Description:		Final User Ident. No.:	

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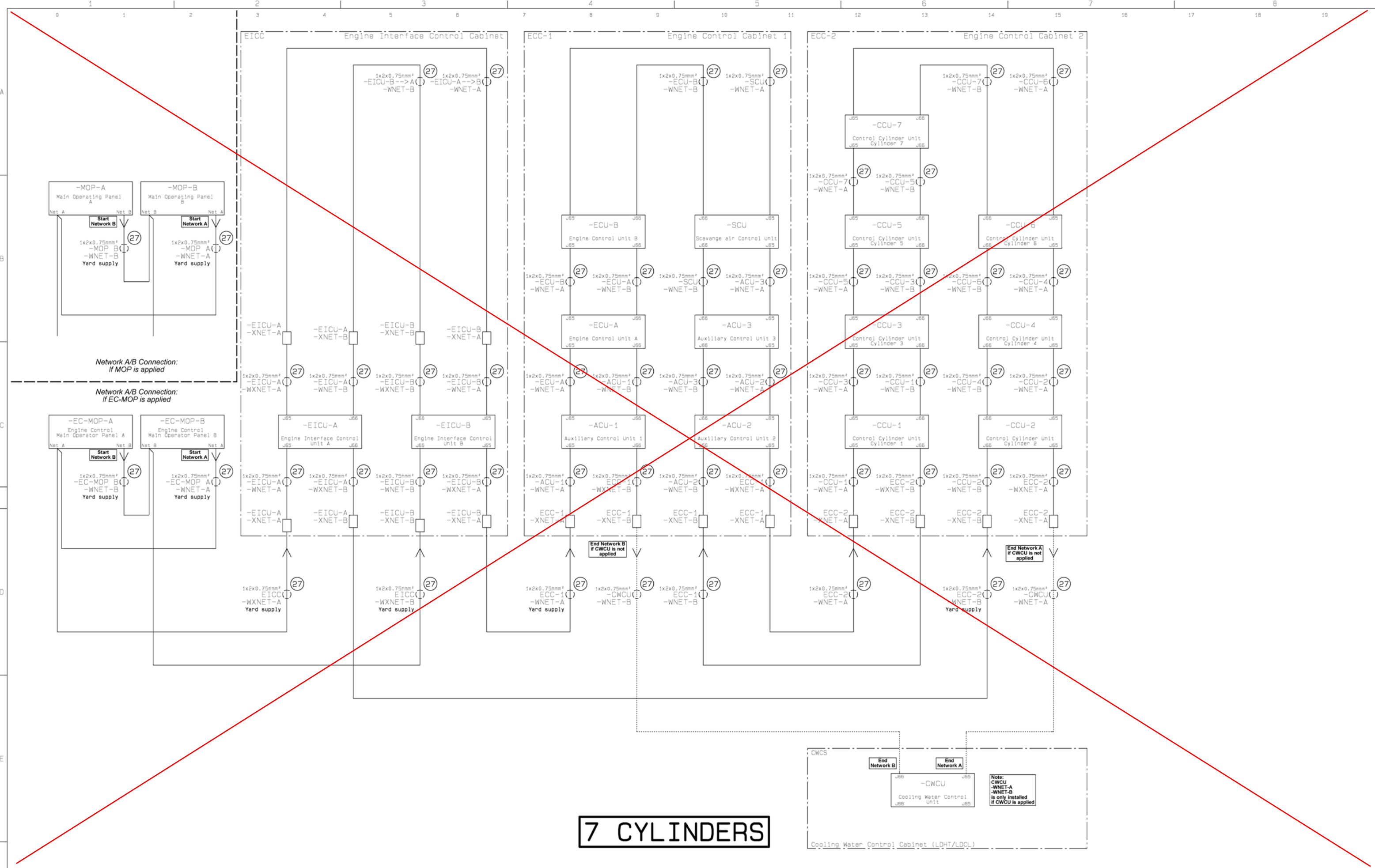


ME ECS - Layout of Cables to/from Network A & Network B - 8 Cylinder	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A1	ME ECS 5-12 CYL					77 (241)	
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7B4200					ENGINE CONTROL		5561674-4		
Final User Info. No.:					Final User Description:		Final User Ident. No.:		

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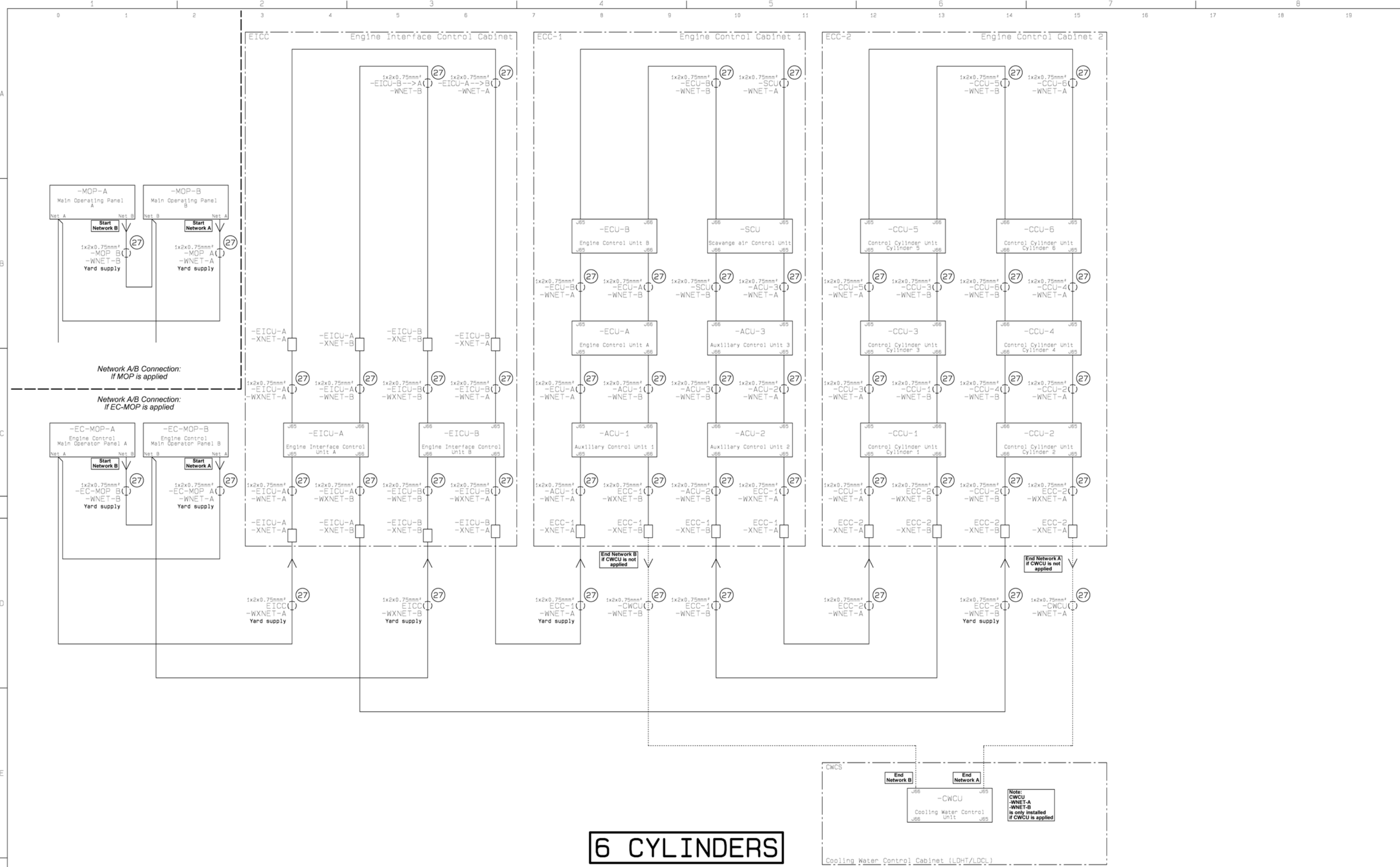


CAD Drawing - do not correct by hand - PCS Drawing



ME ECS - Layout of Cables to/from Network A & Network B - 7 Cylinder	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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	Scale:	Size:	Product Type:			Projection:	Page No.:
		A1	ME ECS 5-12 CYL				78 (241)
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7B4200				ENGINE CONTROL	5561674-4		
Final User Info. No.:				Final User Description:	Final User Ident. No.:		

CAD Drawing - do not correct by hand - PCS Drawing



6 CYLINDERS

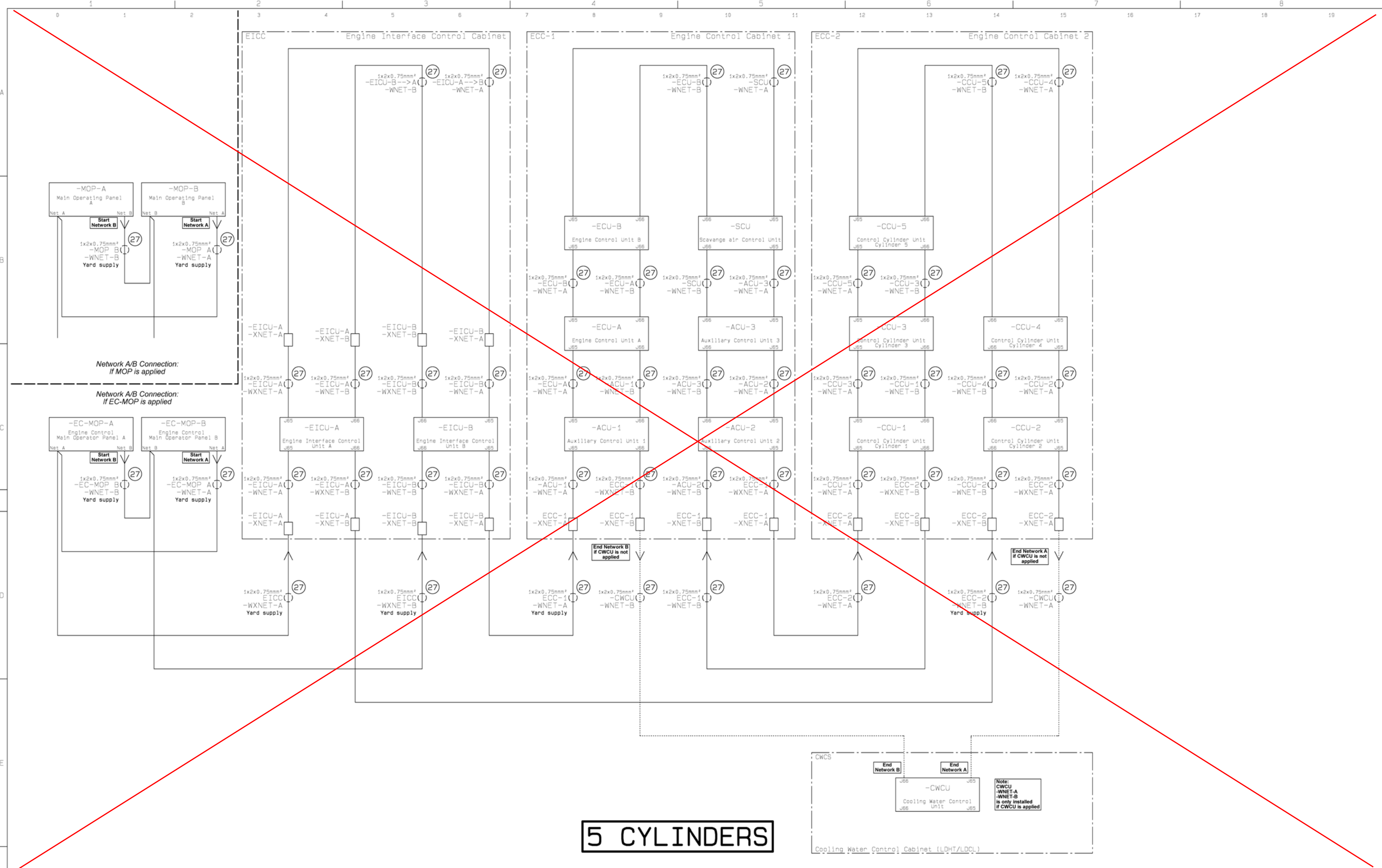
ME ECS - Layout of Cables to/from Network A & Network B - 6 Cylinder				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
				Scale:	Size:	Product Type:		Projection:	Page No.:		
					A1	ME ECS 5-12 CYL			79 (241)		
				Info. No.:	Item Name:		Item Id.:				
				7B4200	ENGINE CONTROL		5561674-4				
				Final User Info. No.:	Final User Description:		Final User Ident. No.:				

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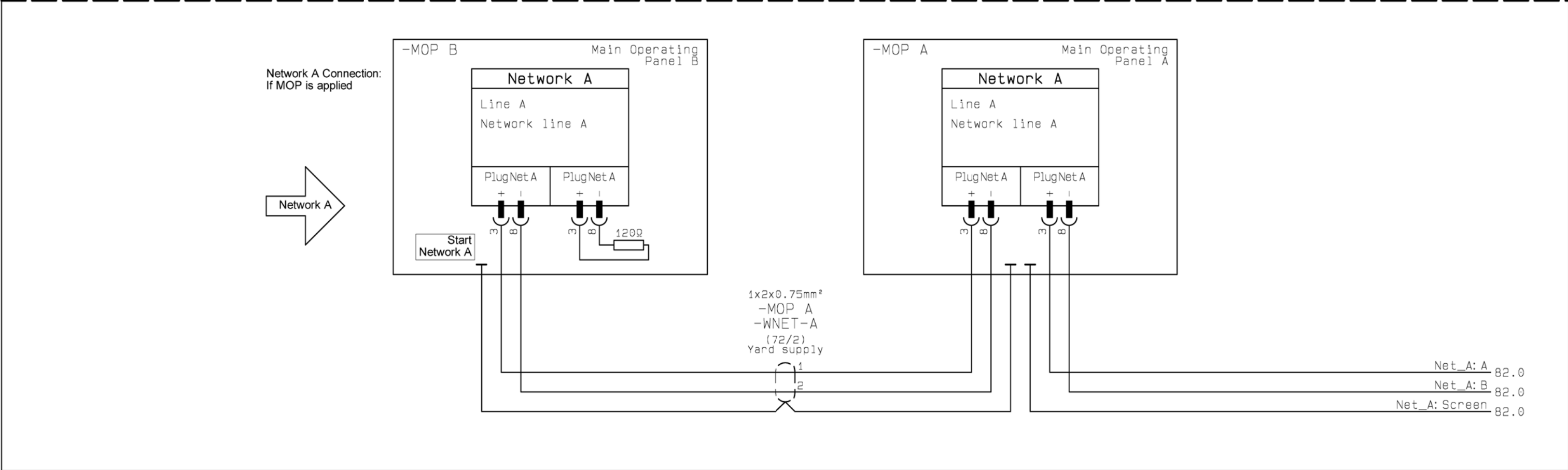
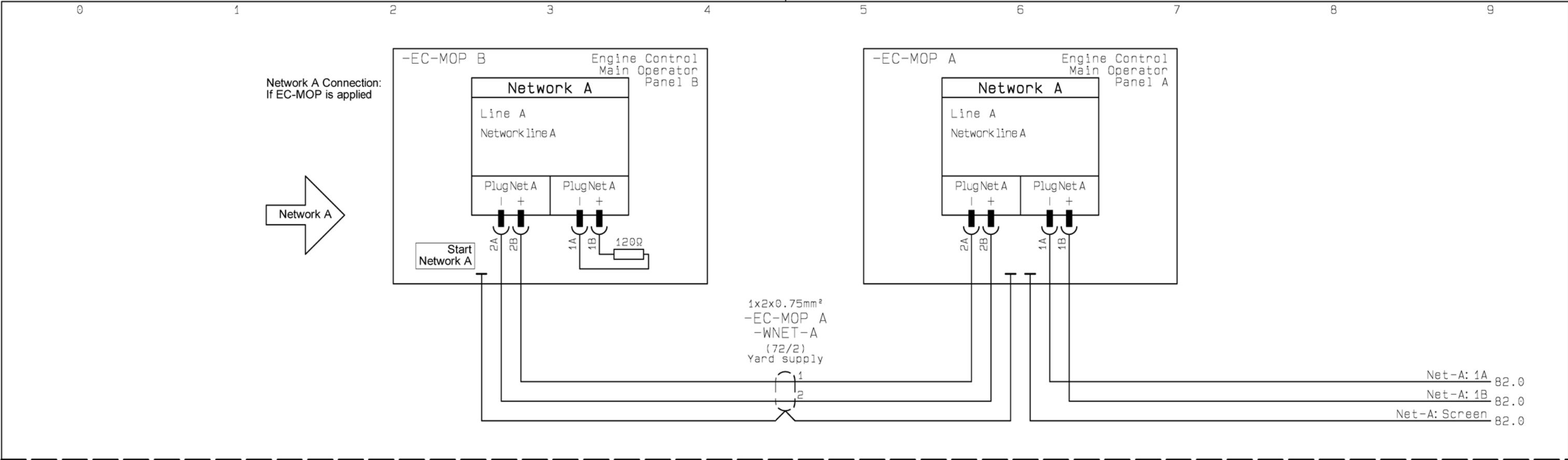


ME ECS - Layout of Cables to/from Network A & Network B - 5 Cylinder				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.	
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				Scale:	Size:	Product Type:			Projection:	Page No.:		
					A1	ME ECS 5-12 CYL				80 (241)		
				Info. No.:				Item Name:			Item Id.:	
				7B4200				ENGINE CONTROL			5561674-4	
				Final User Info. No.:		Final User Description:			Final User Ident. No.:			
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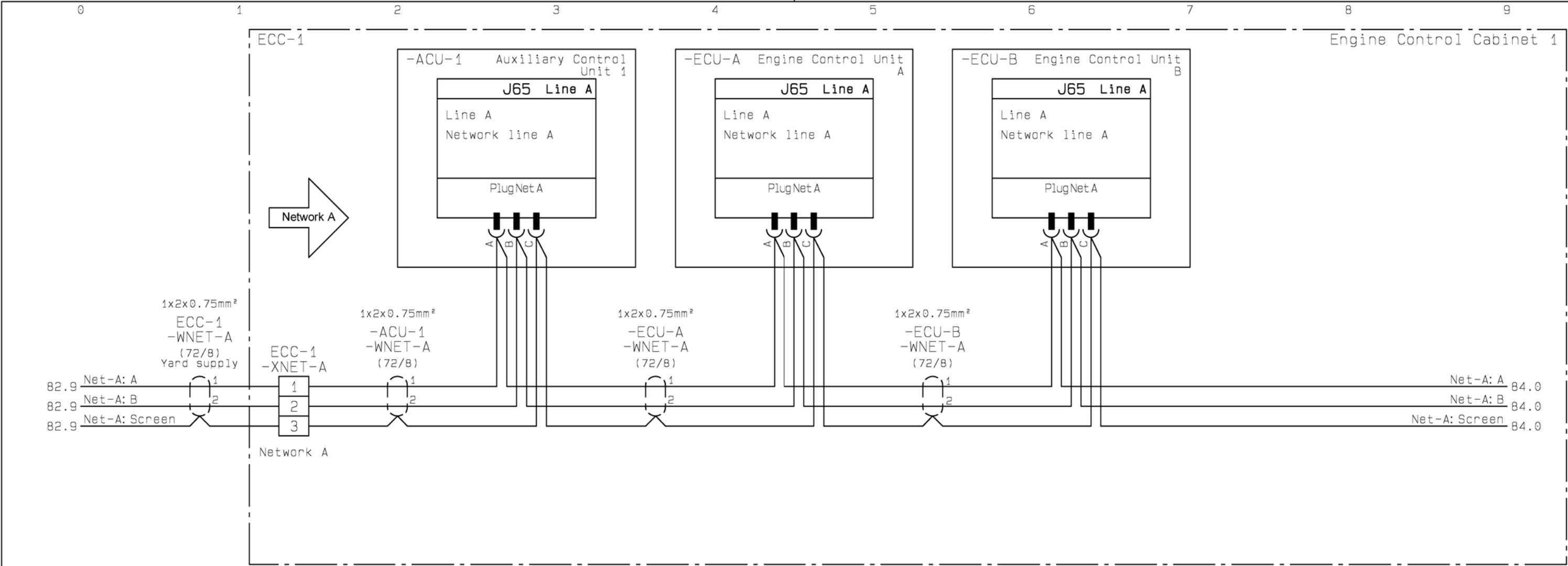
ME ECS, Network A - EC-MOP-B, EC-MOP-A or MOP-B, MOP-A

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				81 (241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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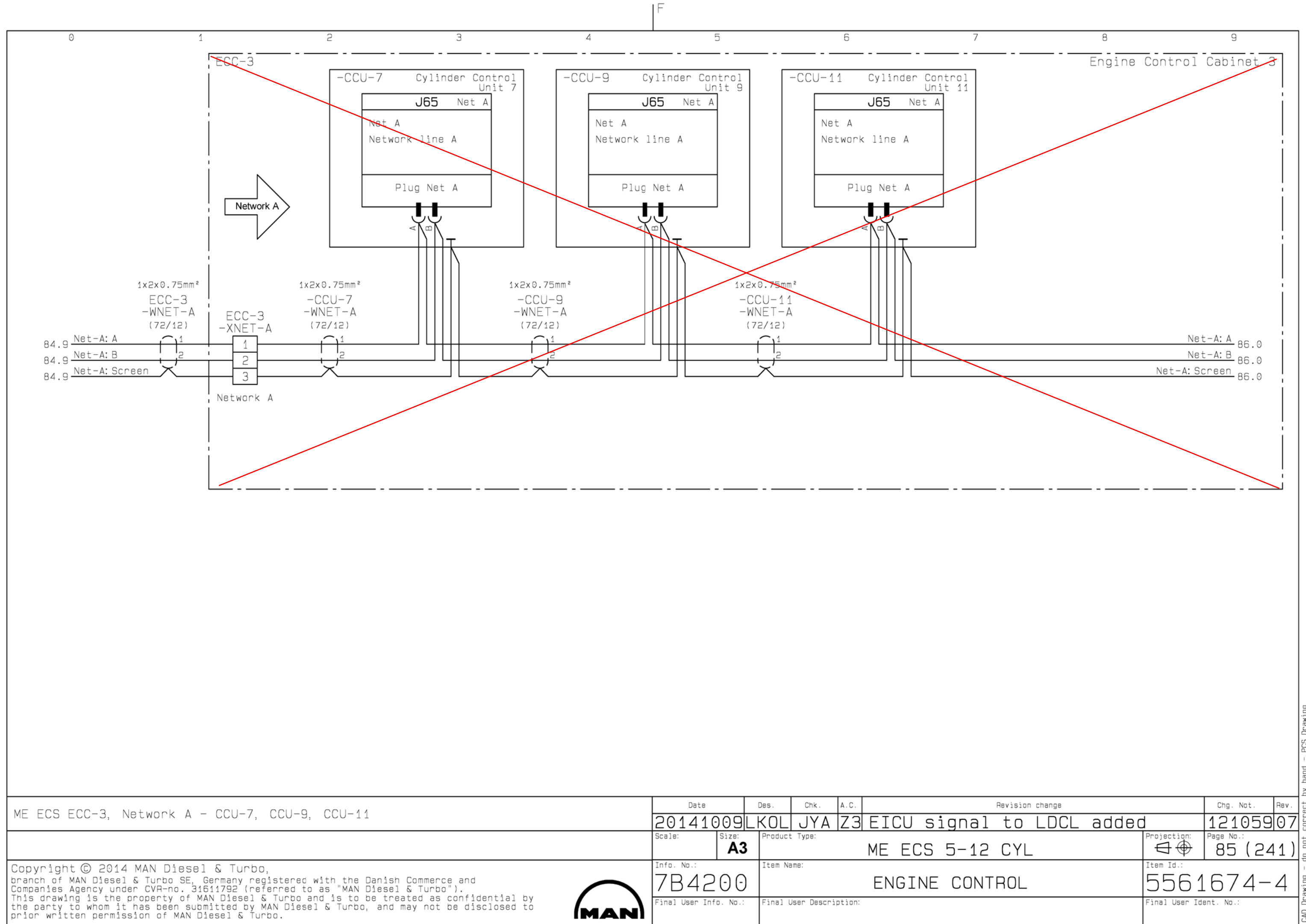


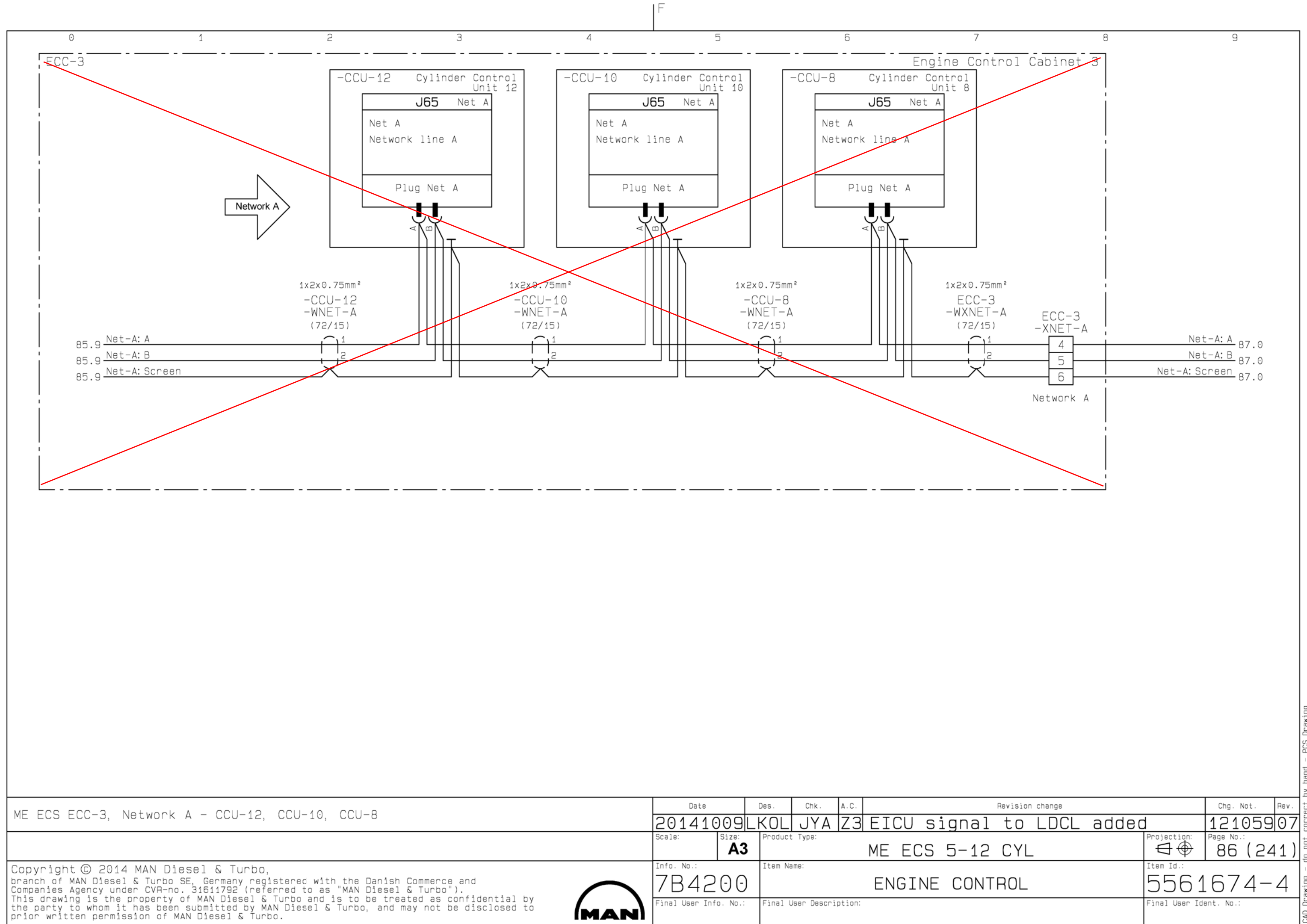
CAD Drawing - do not correct by hand - PCS Drawing

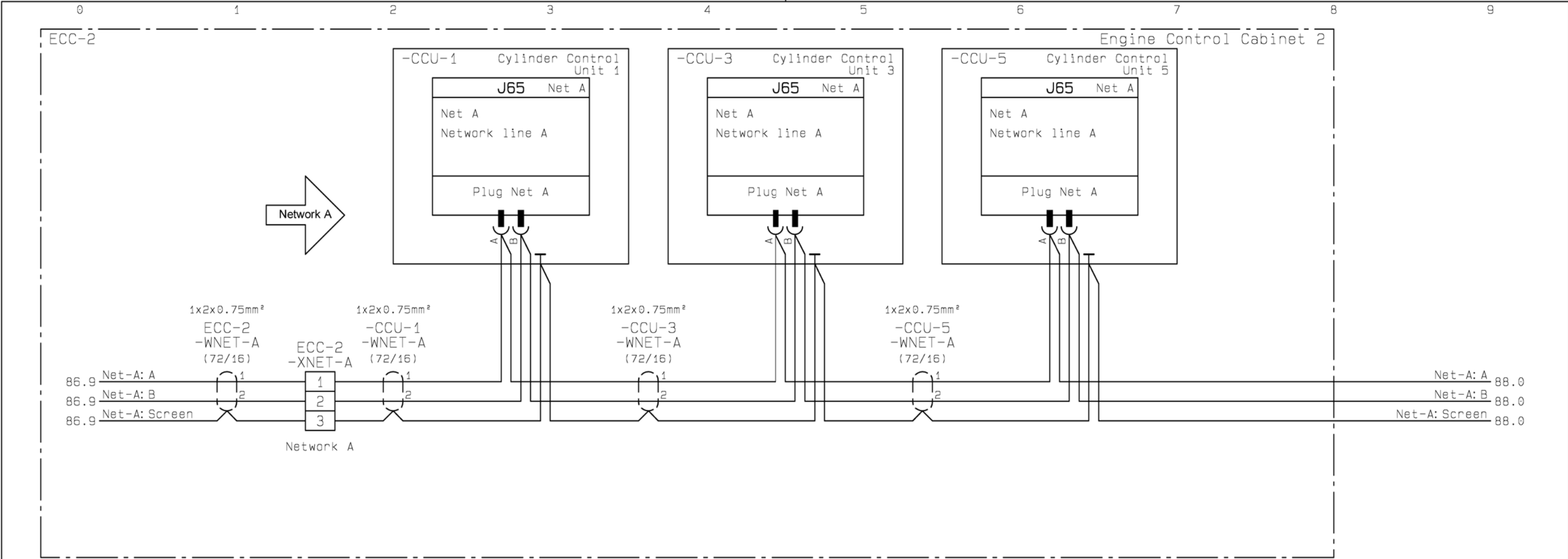


ME ECS ECC-1, Network A - ACU-1, ECU-A, ECU-B	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200	Item Name: ENGINE CONTROL			Item Id.: 5561674-4		
Final User Info. No.:		Final User Description:				Final User Ident. No.:	







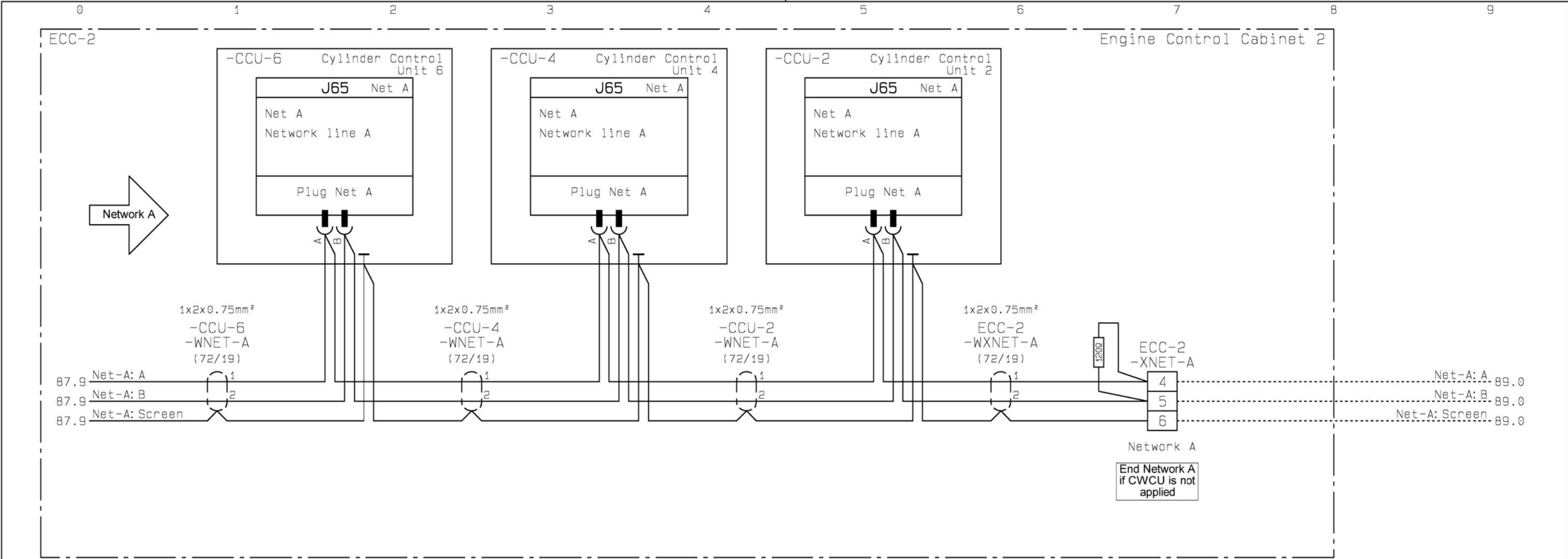


ME ECS ECC-2, Network A - CCU-1, CCU-3, CCU-5

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				87 (241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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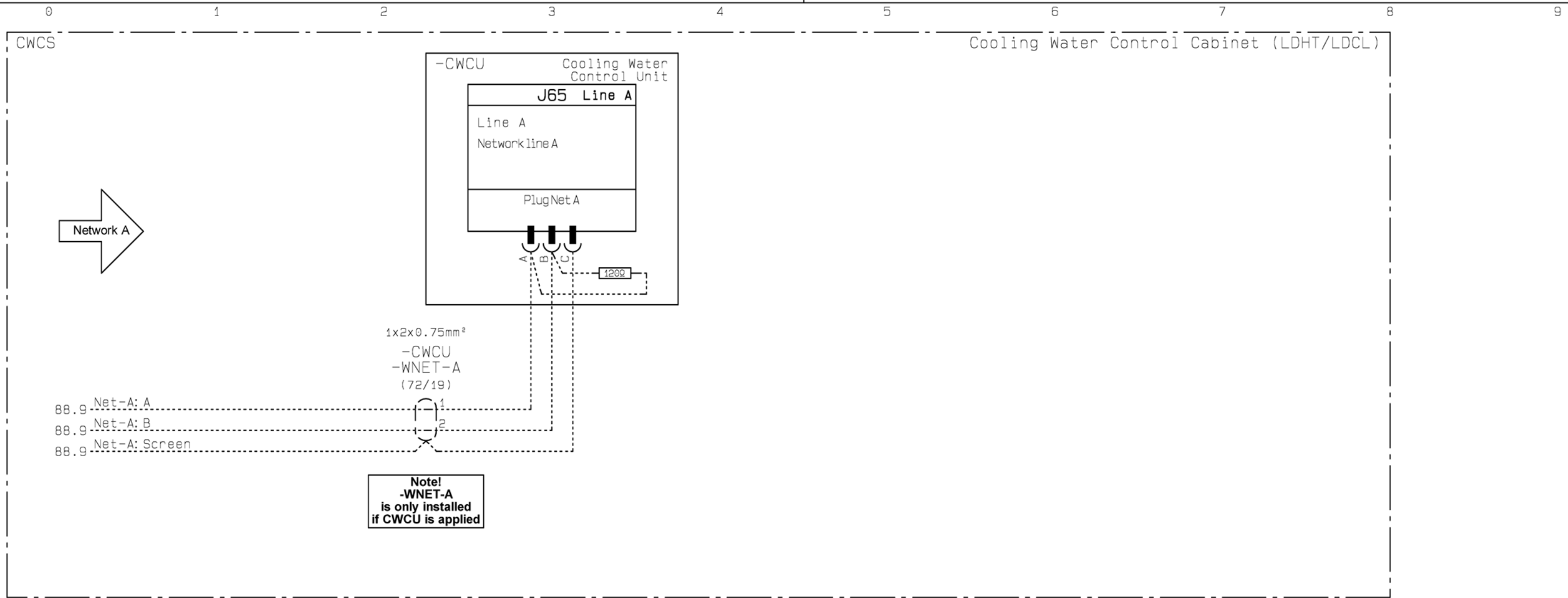


ME ECS ECC-2, Network A - CCU-6, CCU-4, CCU-2

ME ECS ECC-2, Network A - CCU-6, CCU-4, CCU-2	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:	
		A3	ME ECS 5-12 CYL				88 (241)	
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	7B4200		ENGINE CONTROL			5561674-4		
	Final User Info. No.:		Final User Description:			Final User Ident. No.:		

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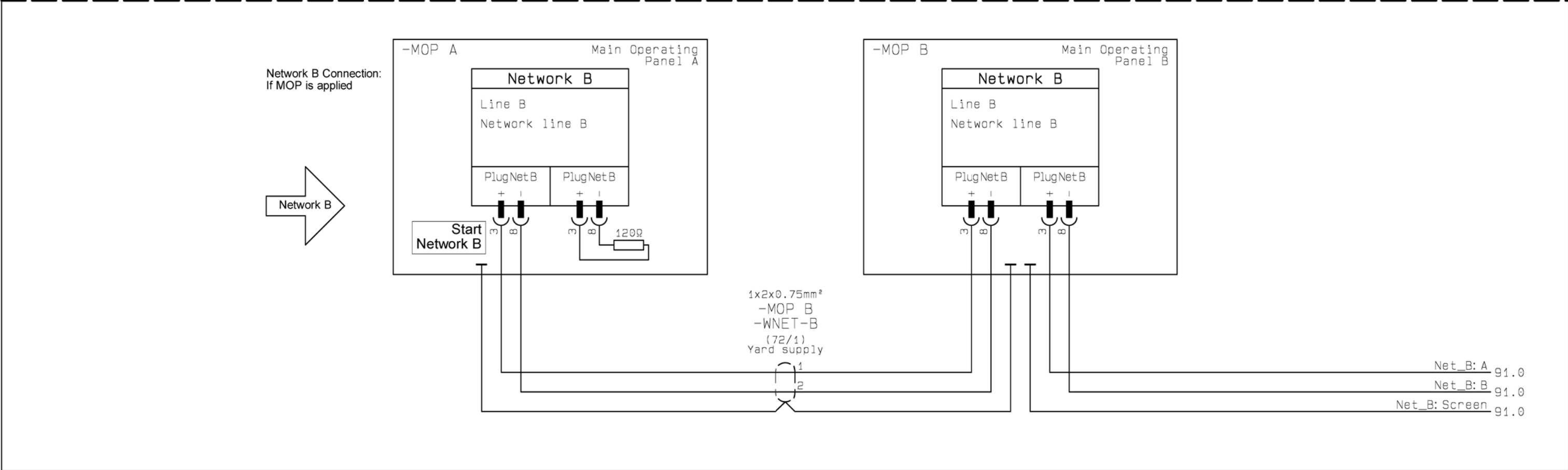
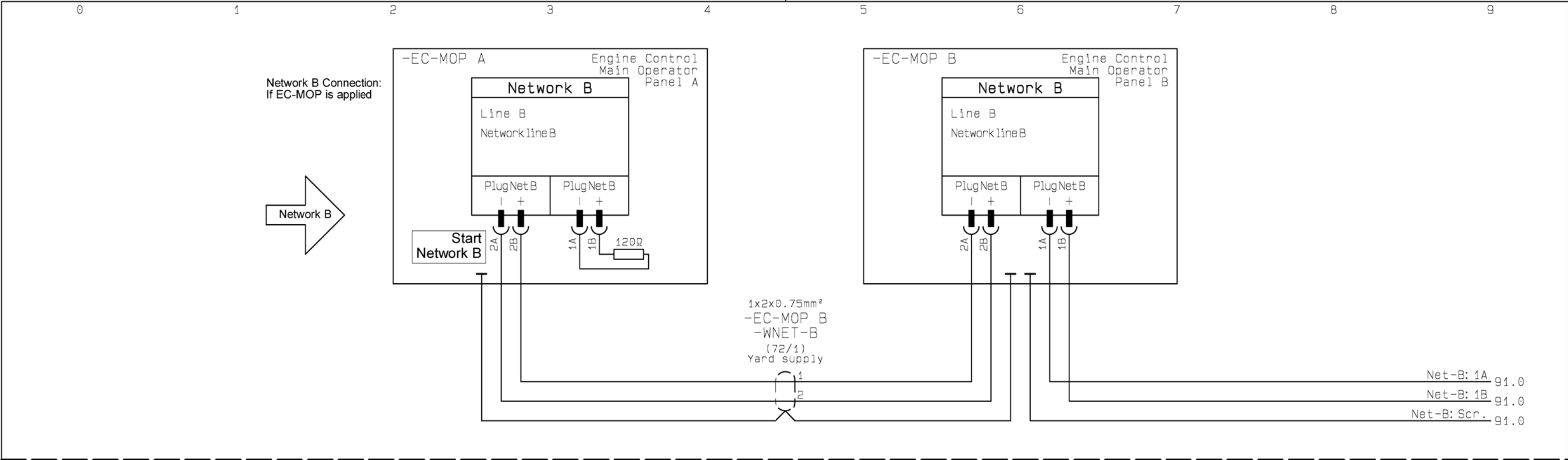


CWCS, Network A - CWCU

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: ⊟	Page No.: 89 (241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

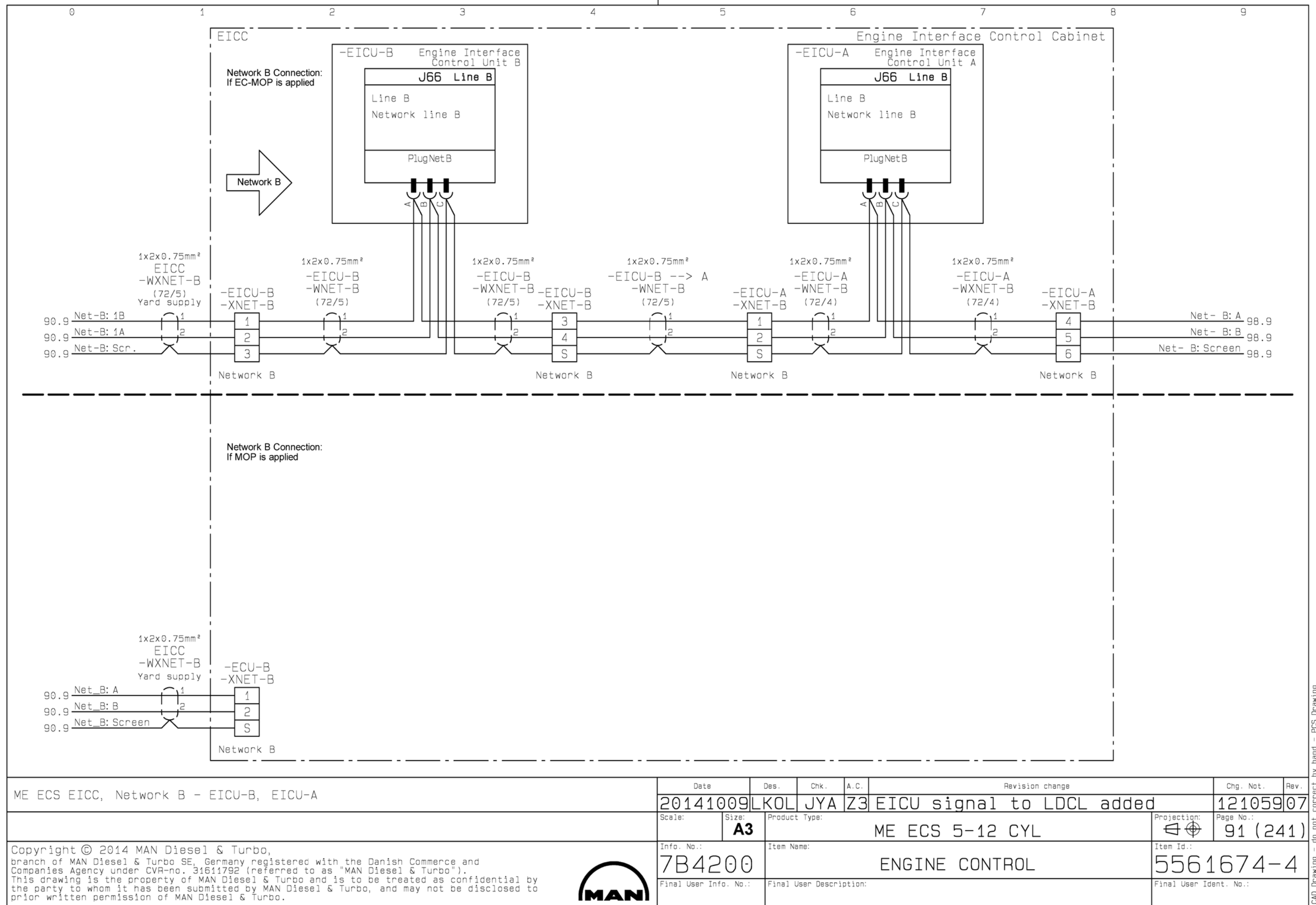
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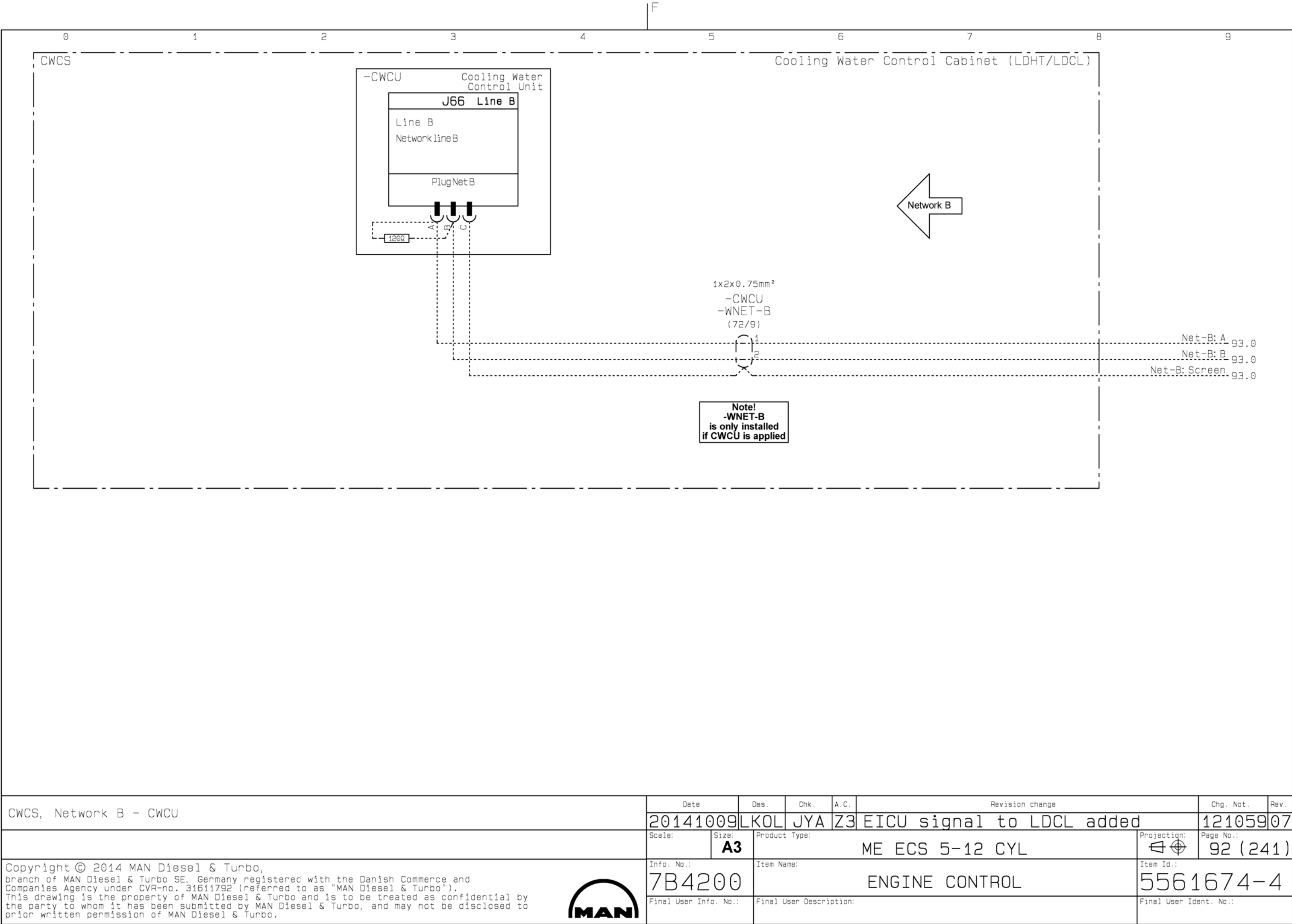


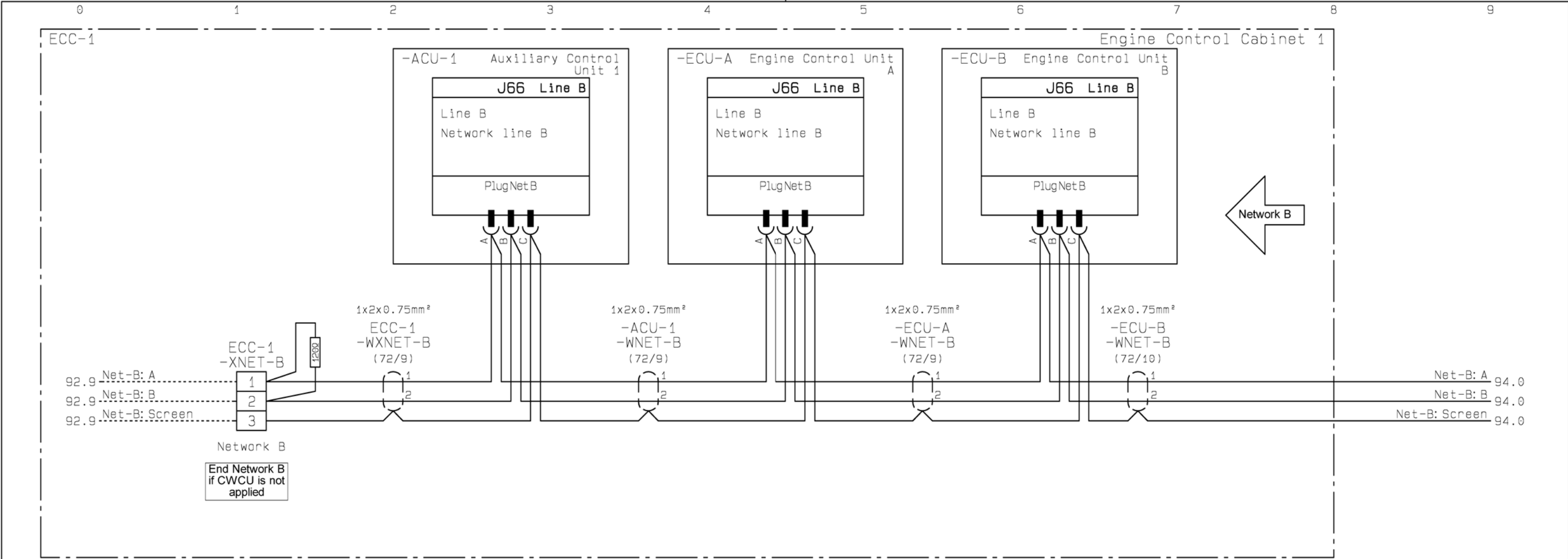


ME ECS, Network B - EC-MOP-A, EC-MOP-B or MOP-B, MOP-A	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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Final User Info. No.:		Final User Description:				Final User Ident. No.:	



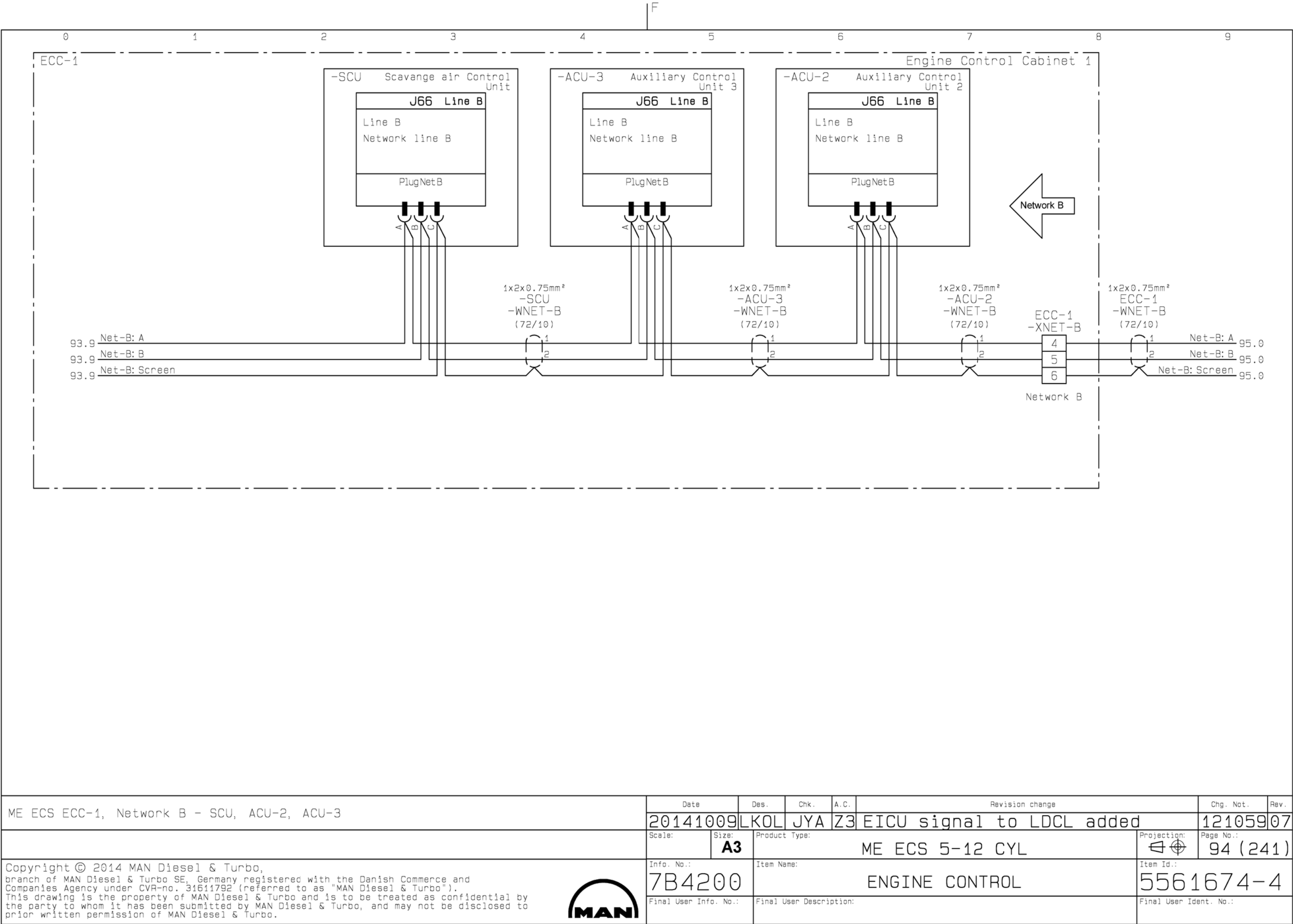


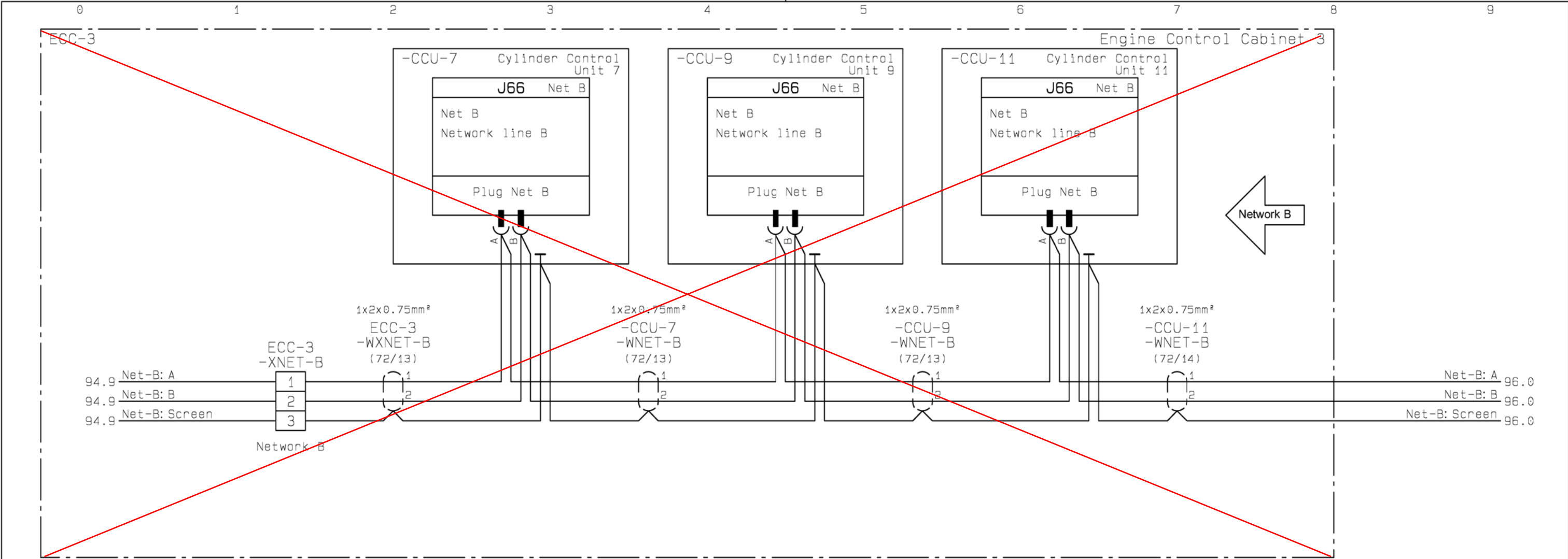




ME ECS ECC-2, Network B - ACU-1, ECU-A, ECU-B	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:	

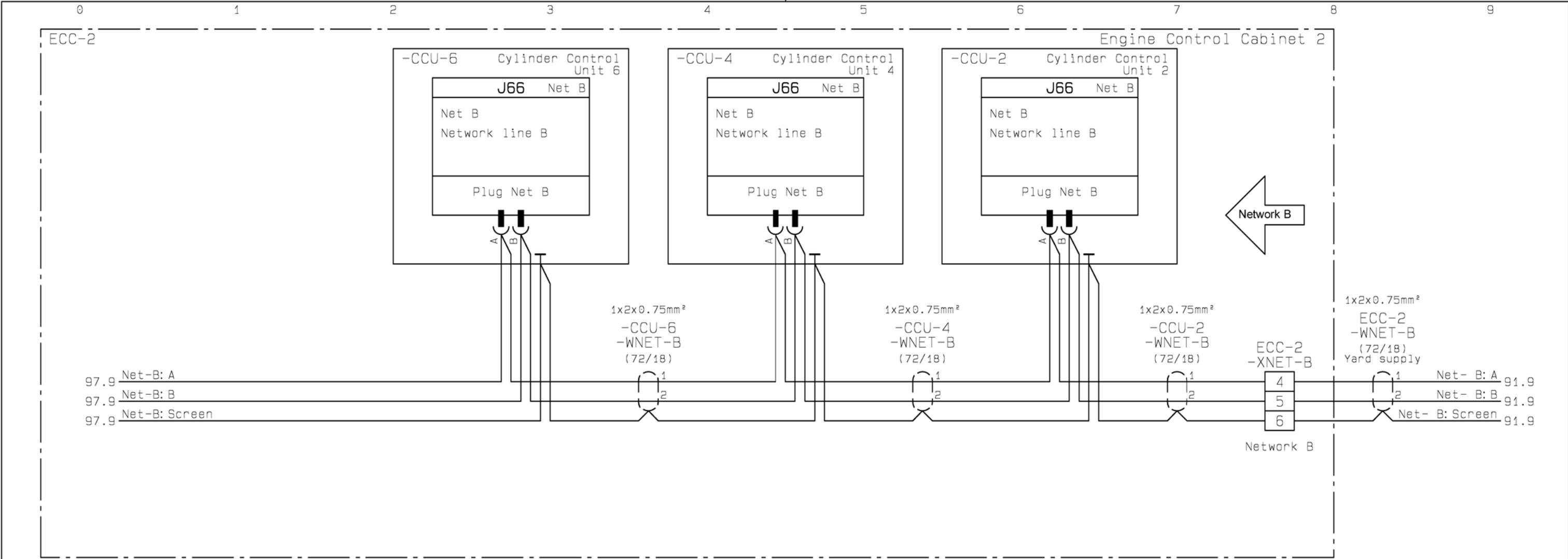






ME ECS ECC-3, Network B - CCU-7, CCU-9, CCU-11	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200	Item Name: ENGINE CONTROL			Item Id.: 5561674-4		
Final User Info. No.:		Final User Description:				Final User Ident. No.:	





ME ECS ECC-2, Network B - CCU-6, CCU-4, CCU-2	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:				Final User Ident. No.:	



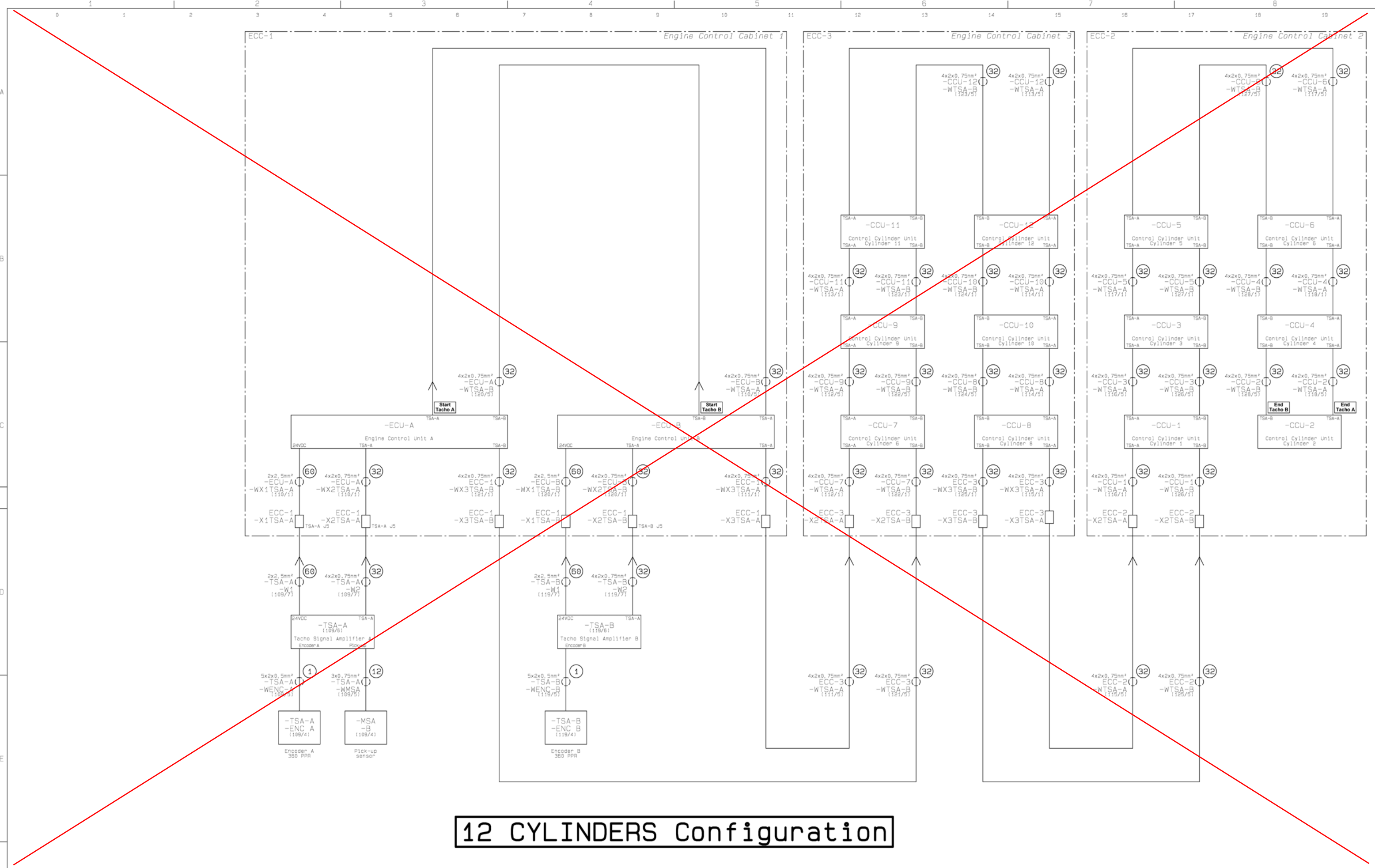
9 TACHO

Page 100...128

TACHO	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					99 (241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



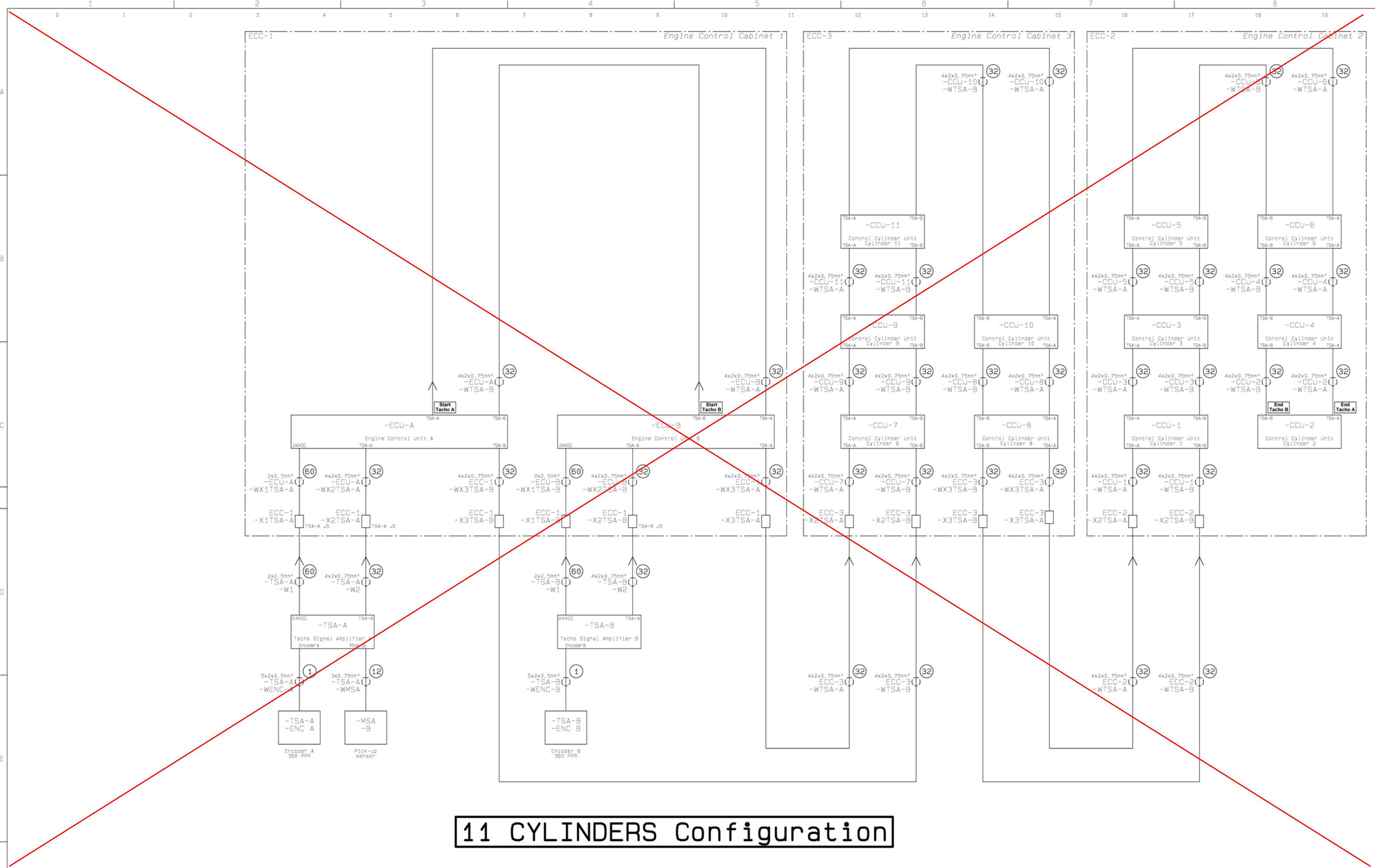




12 CYLINDERS Configuration

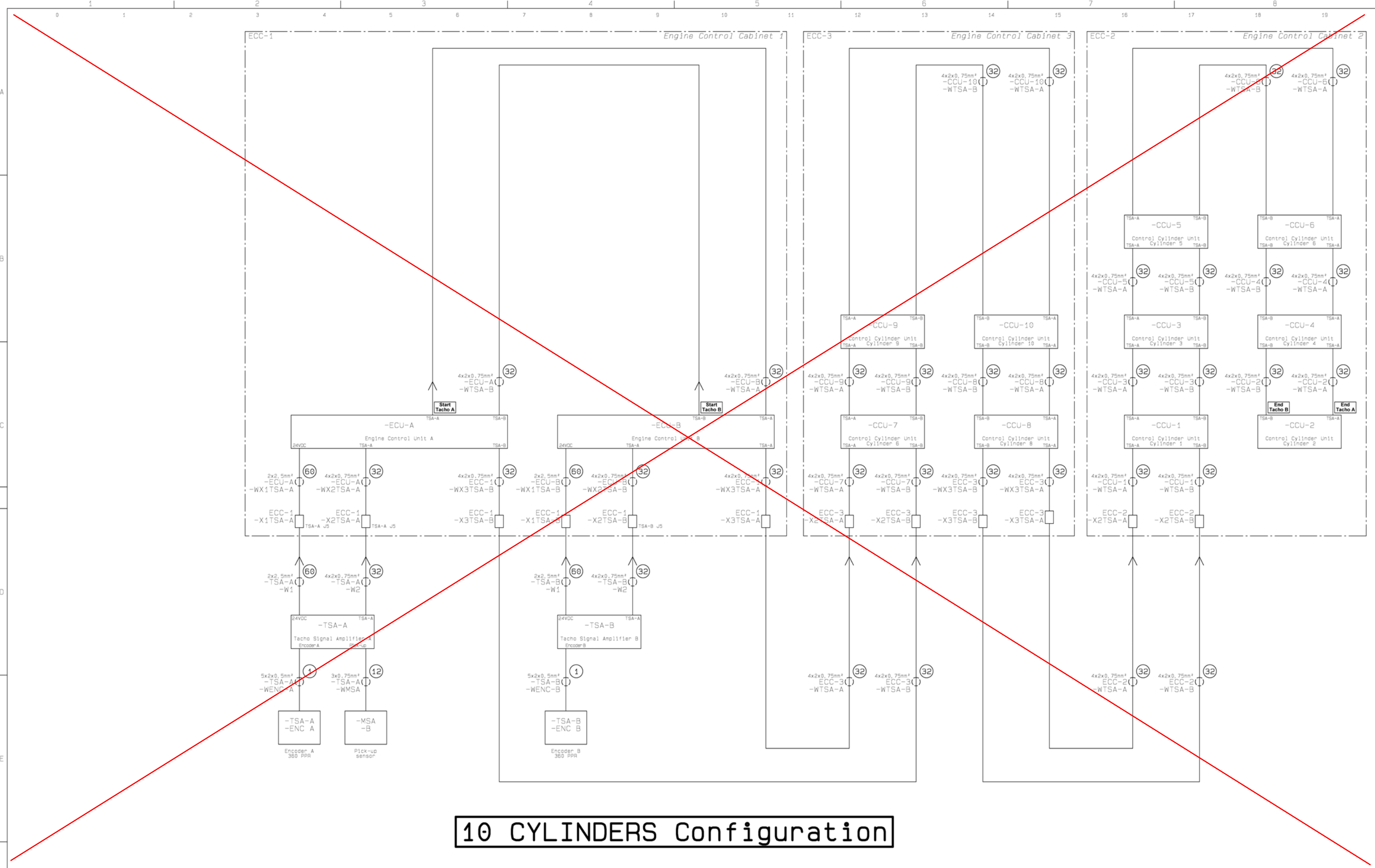
ME ECS - Layout of Cables to/from Tacho A & Tacho B - 12 Cylinder Configuration	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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		A1	ME ECS 5-12 CYL				100 (241)
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7B4200				ENGINE CONTROL	5561674-4		
Final User Info. No.:				Final User Description:	Final User Ident. No.:		

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11 CYLINDERS Configuration

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 11 Cylinder Configuration				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
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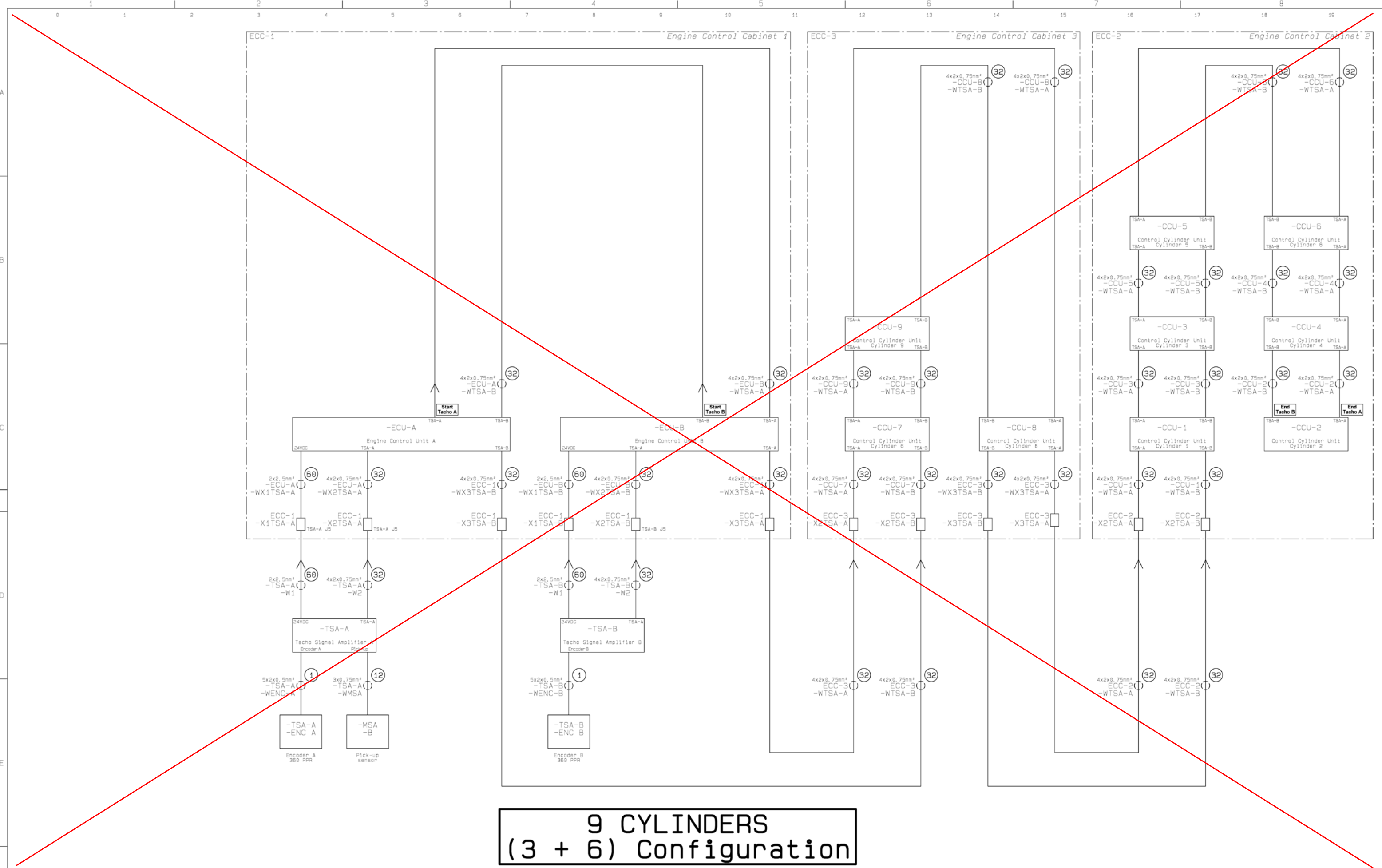


ME ECS - Layout of Cables to/from Tacho A & Tacho B - 10 Cylinder Configuration					Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
					20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
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					Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4		
					Final User Info. No.:		Final User Description:			Final User Ident. No.:		

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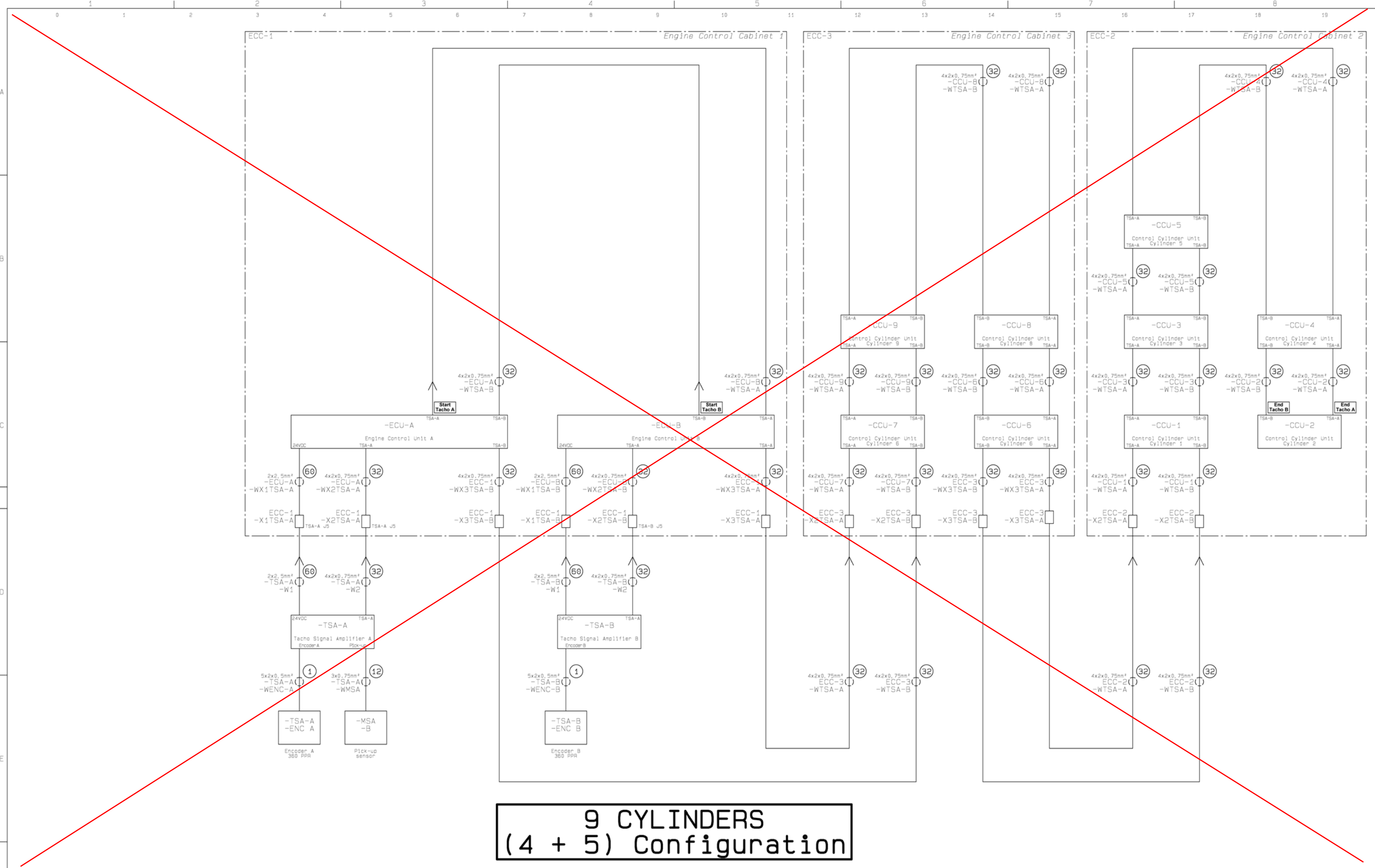


9 CYLINDERS
(3 + 6) Configuration

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.
					20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
					Scale:	Size: A1	Product Type: ME ECS 5-12 CYL			Projection:	Page No.: 103 (241)	
					Info. No.: 7B4200	Item Name: ENGINE CONTROL			Item Id.: 5561674-4			
					Final User Info. No.:	Final User Description:			Final User Ident. No.:			

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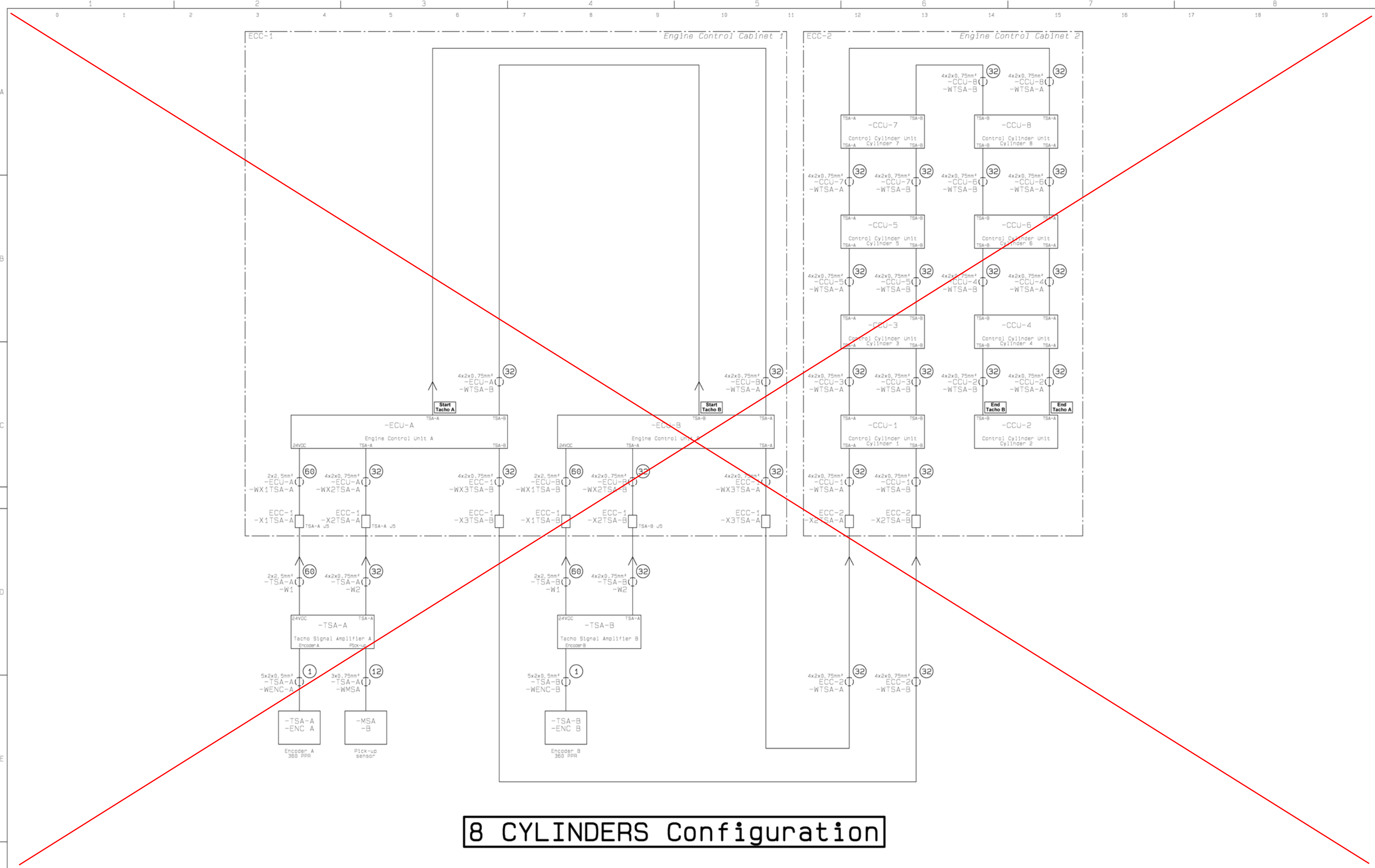


9 CYLINDERS
(4 + 5) Configuration

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.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
	Scale:	Size: A1	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 104(241)
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Final User Info. No.:				Final User Description:	Final User Ident. No.:		

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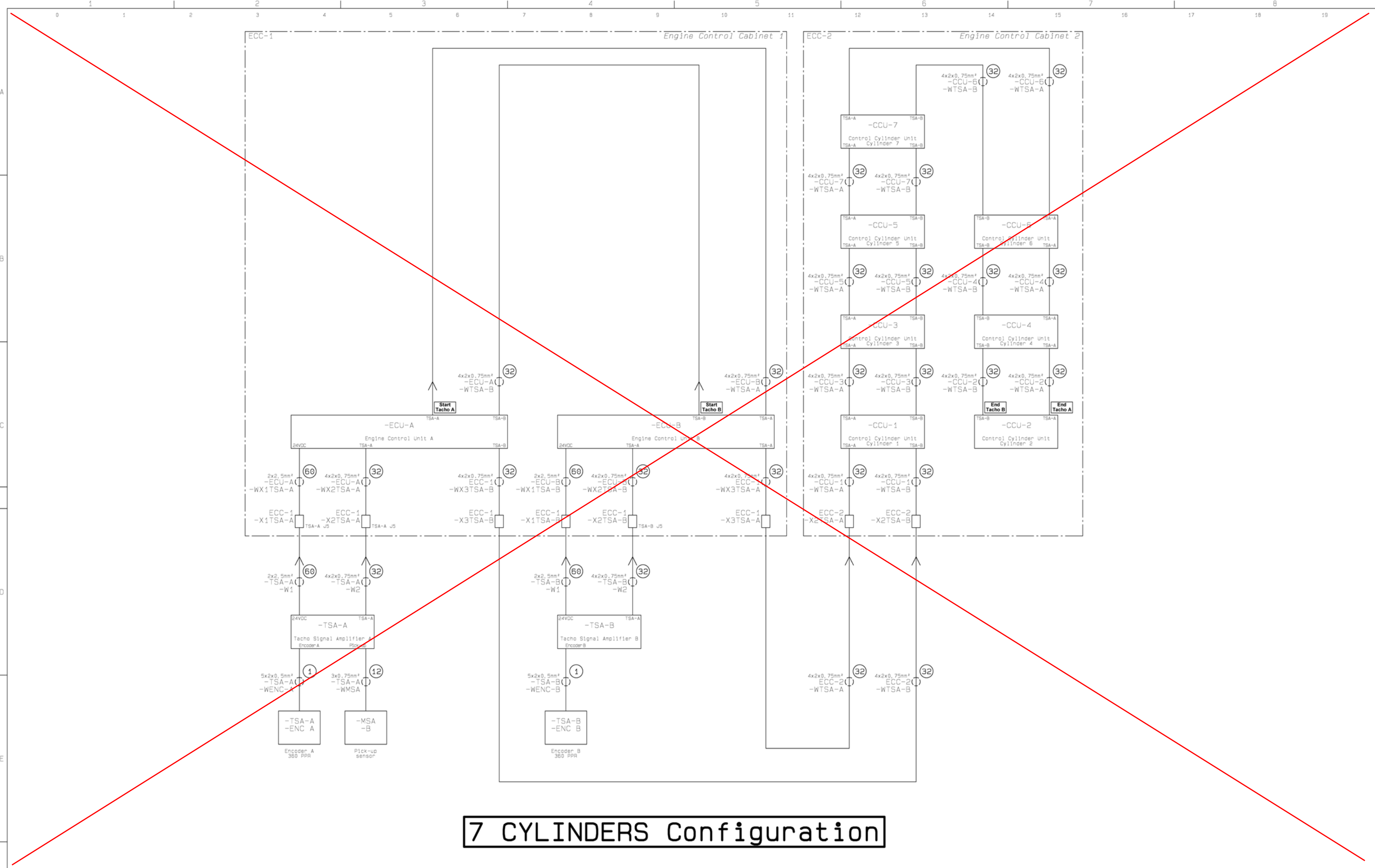


8 CYLINDERS Configuration

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 8 Cylinder Configuration				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
				Scale:	Size:	Product Type:		Projection:	Page No.:		
					A1	ME ECS 5-12 CYL		105	105 (241)		
				Info. No.:		Item Name:		Item Id.:			
				7B4200		ENGINE CONTROL		5561674-4			
				Final User Info. No.:		Final User Description:		Final User Ident. No.:			

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CAD Drawing - do not correct by hand - PCS Drawing

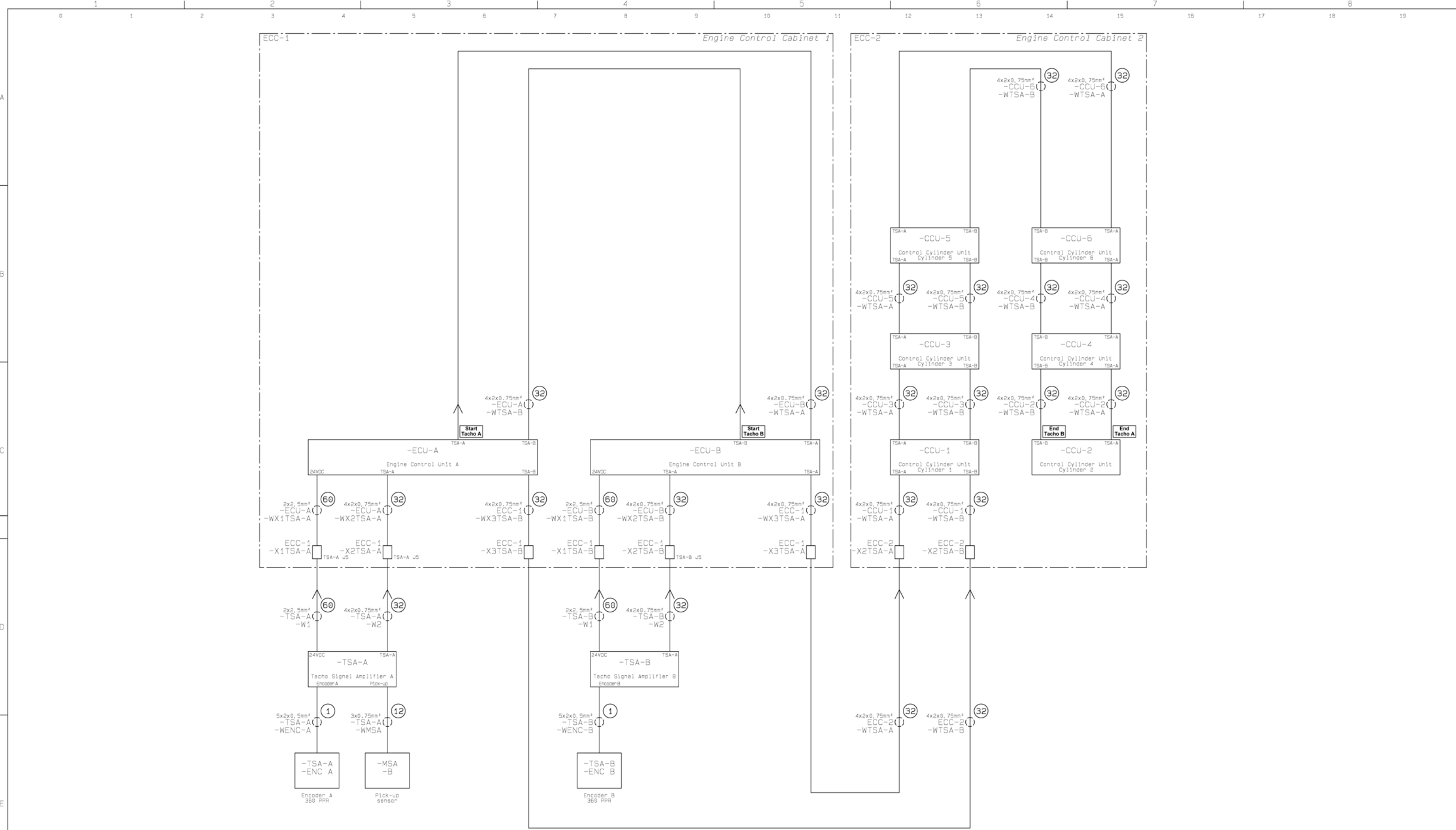


7 CYLINDERS Configuration

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 7 Cylinder Configuration				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
				Scale:	Size:	Product Type:		Projection:	Page No.:		
					A1	ME ECS 5-12 CYL		106	106 (241)		
				Info. No.:		Item Name:		Item Id.:			
				7B4200		ENGINE CONTROL		5561674-4			
				Final User Info. No.:		Final User Description:		Final User Ident. No.:			

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CAD Drawing - do not correct by hand - PCS Drawing

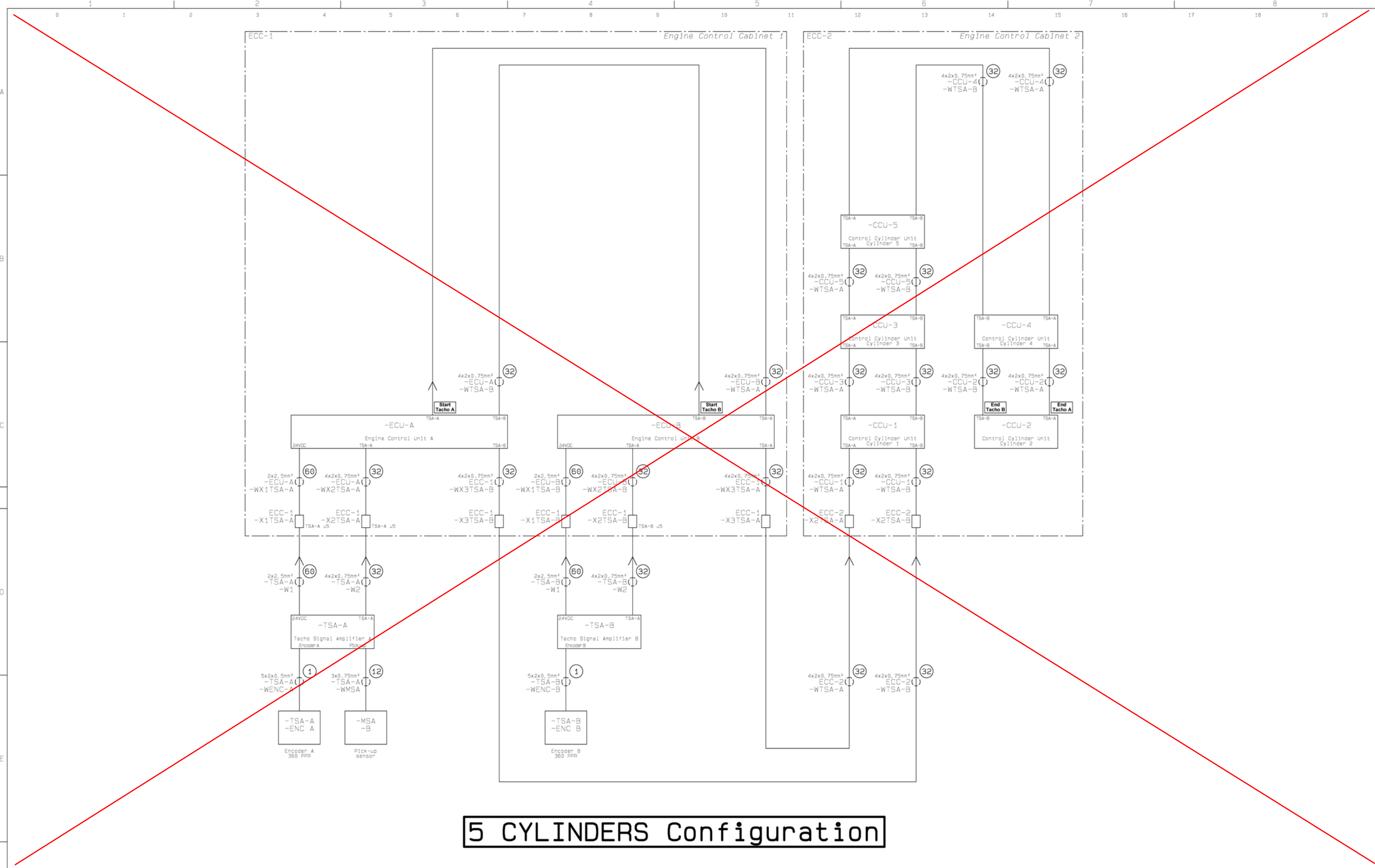


6 CYLINDERS Configuration

ME ECS - Layout of Cables to/from Tacho A & Tacho B - 6 Cylinder Configuration				Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
				20141009	LKOL	JYA	Z3	EICU signal to LDCL added		12105907	
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				Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
				Final User Info. No.:		Final User Description:				Final User Ident. No.:	

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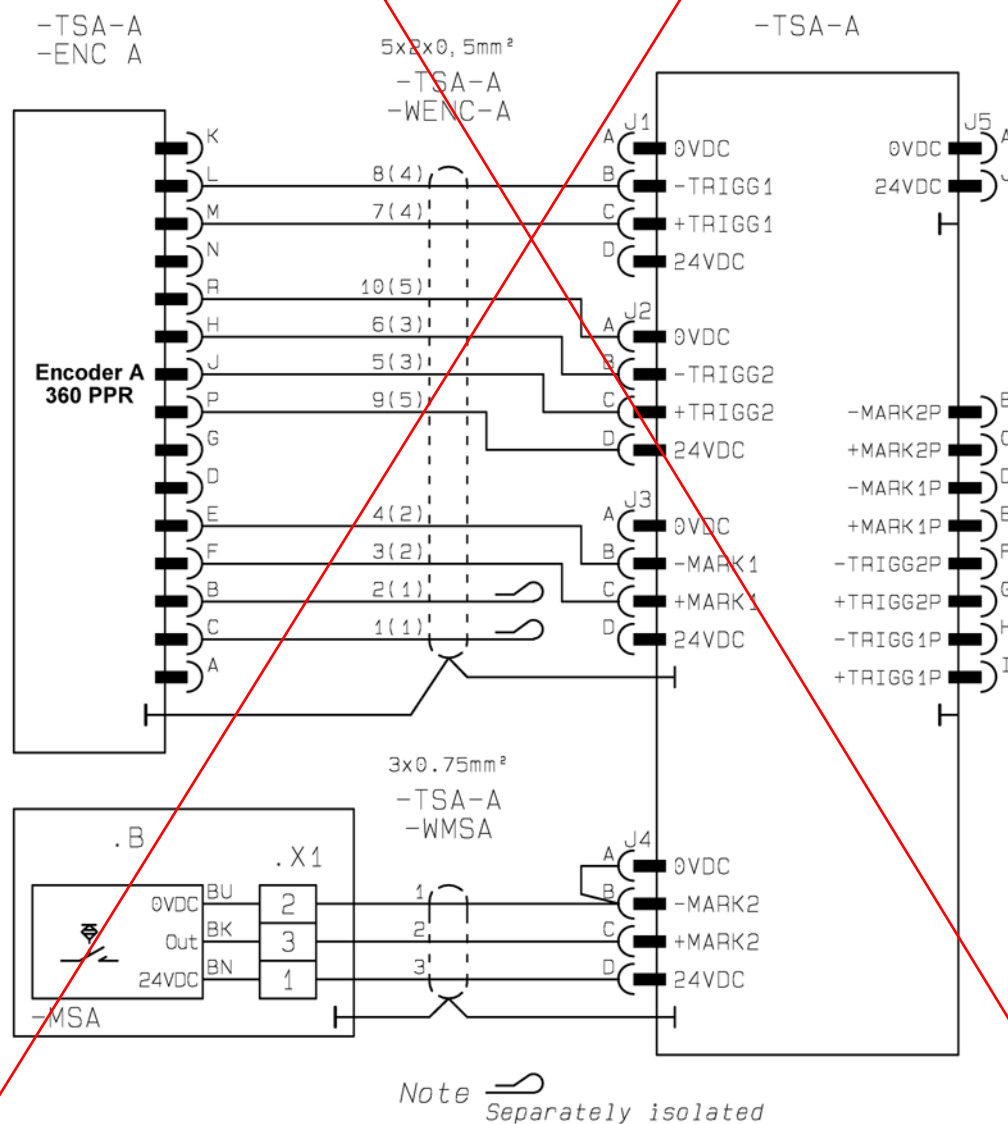


5 CYLINDERS Configuration

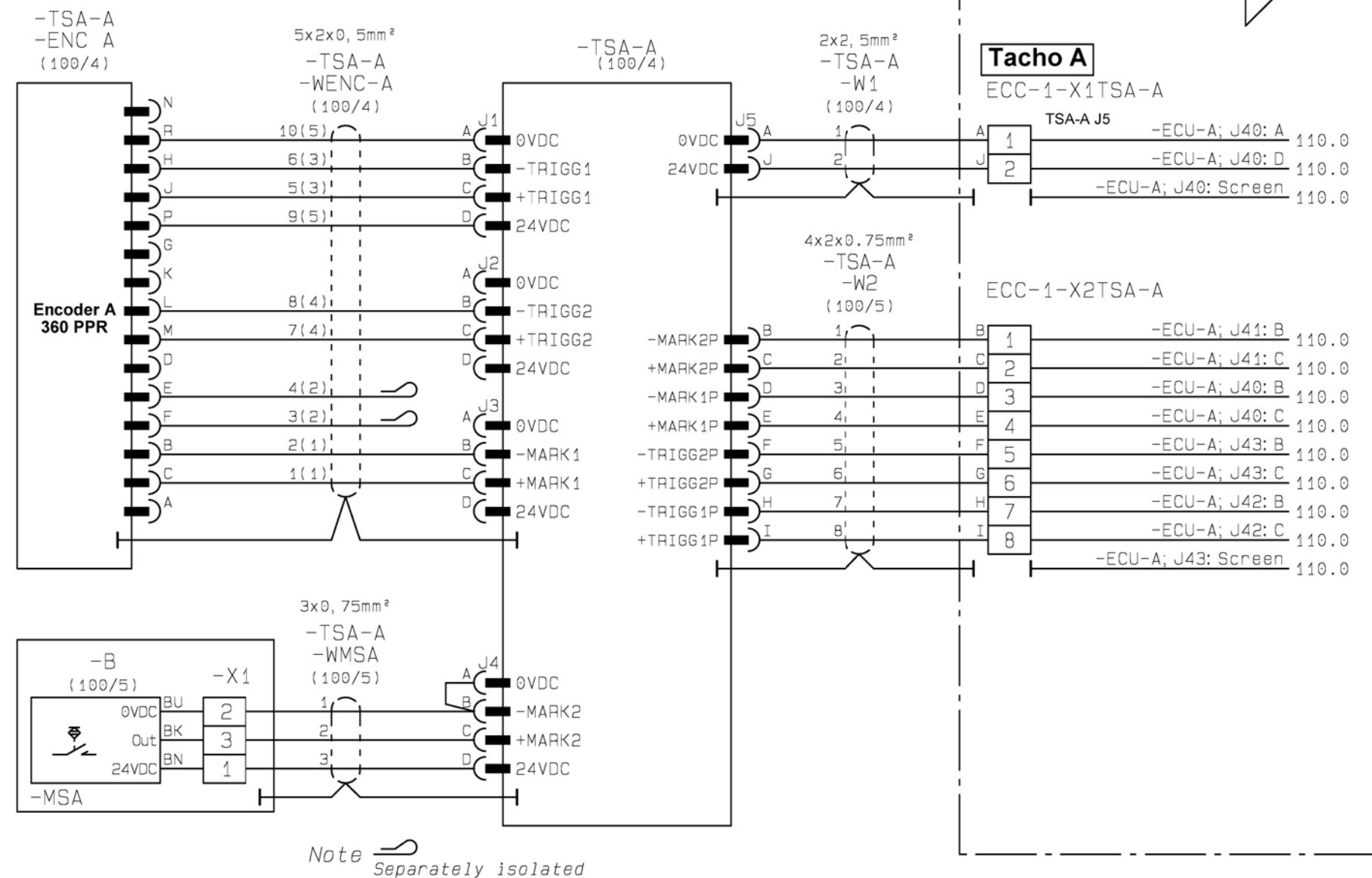
ME ECS - Layout of Cables to/from Tacho A & Tacho B - 5 Cylinder Configuration	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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	Scale:	Size:	Product Type:			Projection:	Page No.:
		A1	ME ECS 5-12 CYL				108 (241)
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7B4200				ENGINE CONTROL	5561674-4		
Final User Info. No.:				Final User Description:	Final User Ident. No.:		

CAD Drawing - do not correct by hand - PCS Drawing

Encoder A
Anti-clockwise connection



Encoder A
Clockwise connection

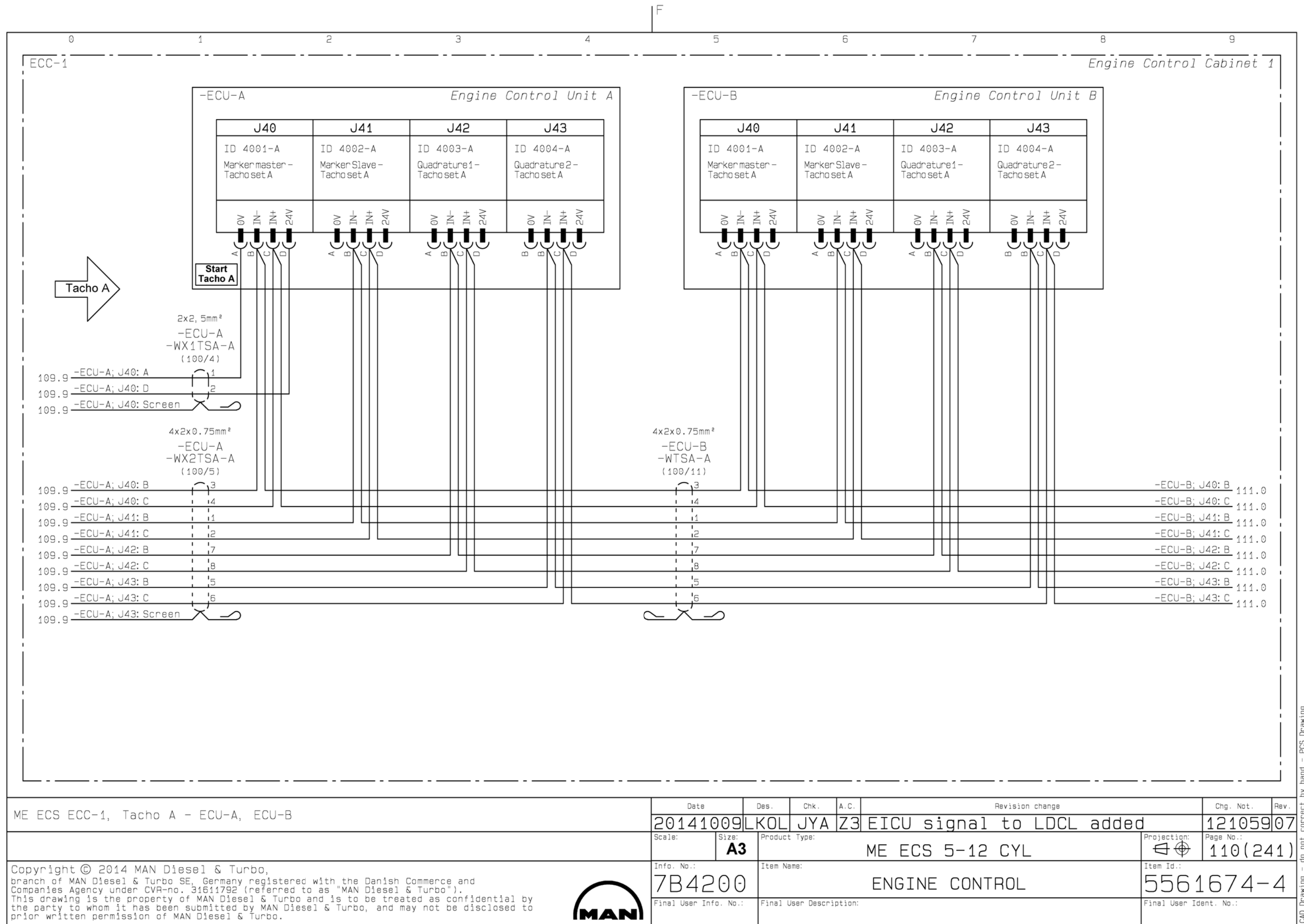


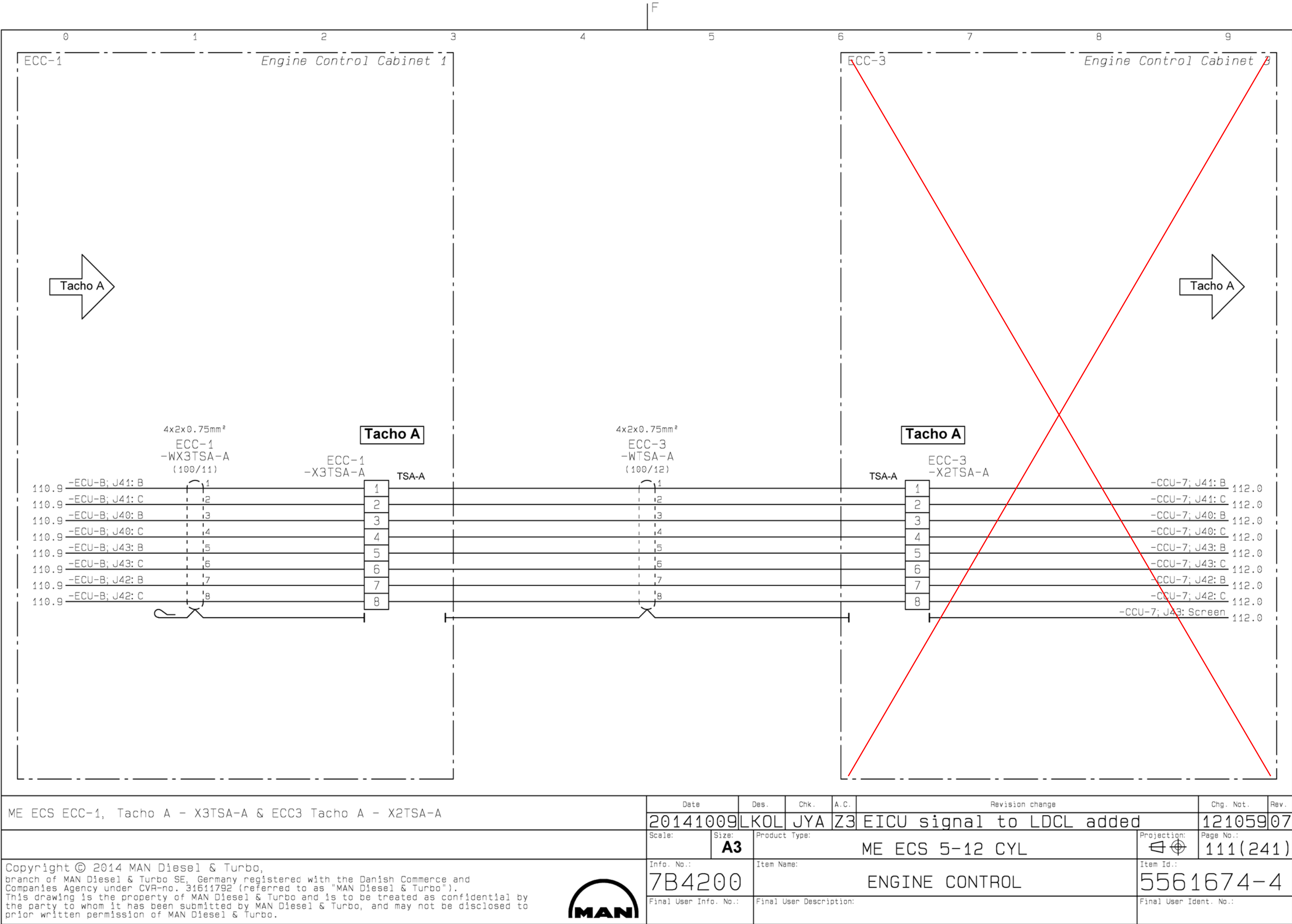
ME ECS ECC-1, Tacho A Encoder Box connections

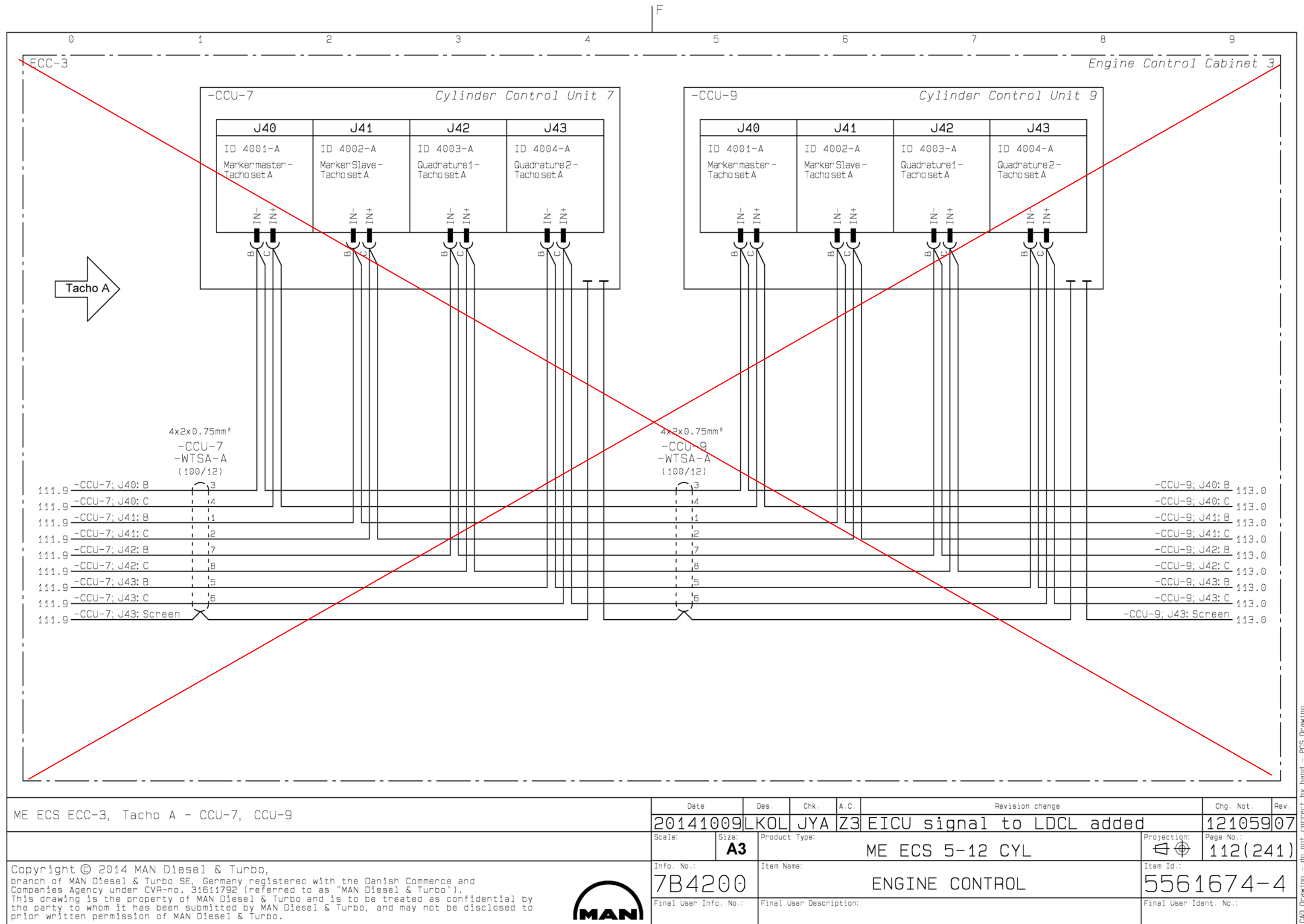
Date	Des.	Chk.	A.C.	Revision change			Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added			121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 109(241)	
Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
Final User Info. No.:		Final User Description:				Final User Ident. No.:		

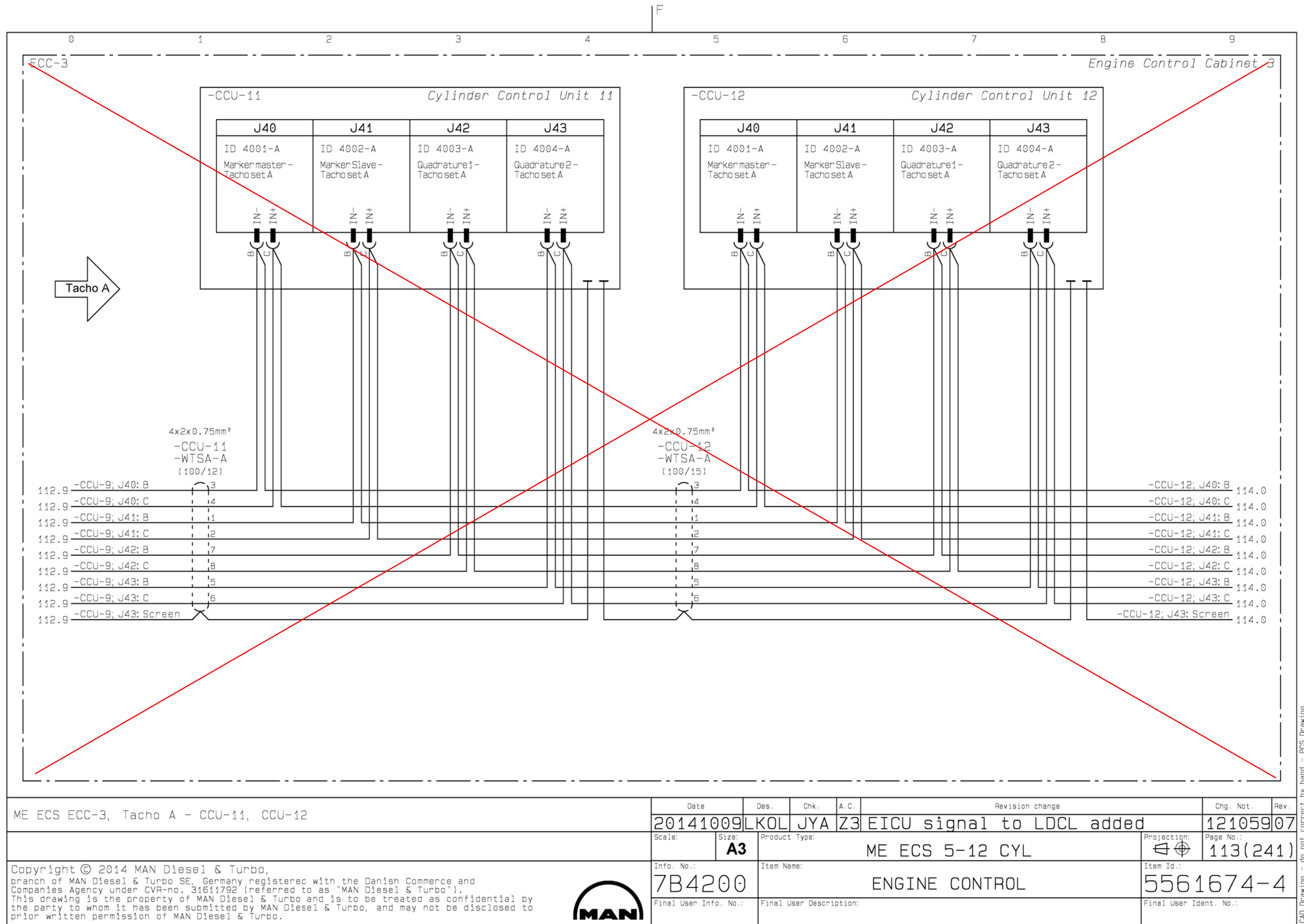
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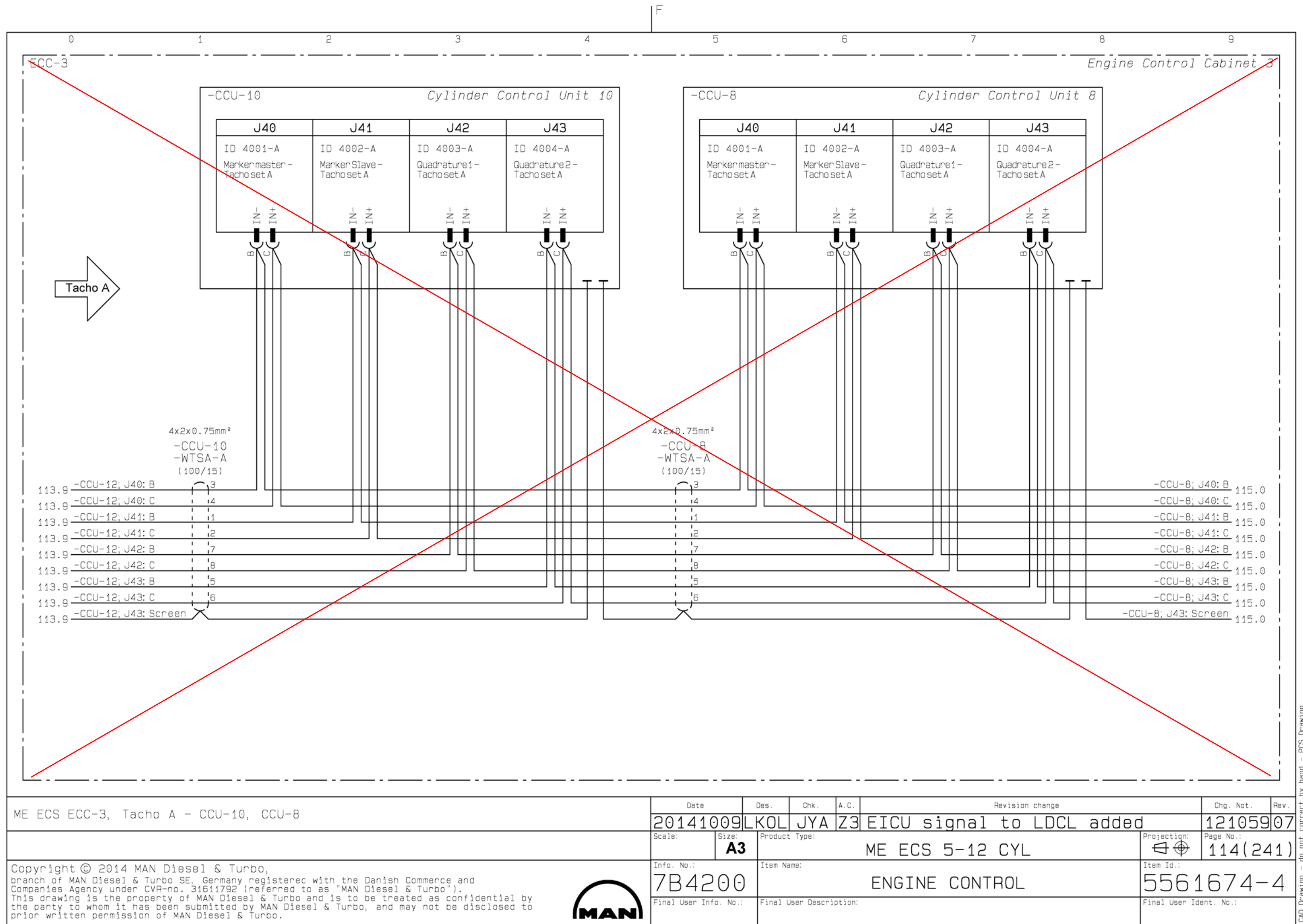


ME ECS ECC-3, Tacho A - CCU-11, CCU-12

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 113(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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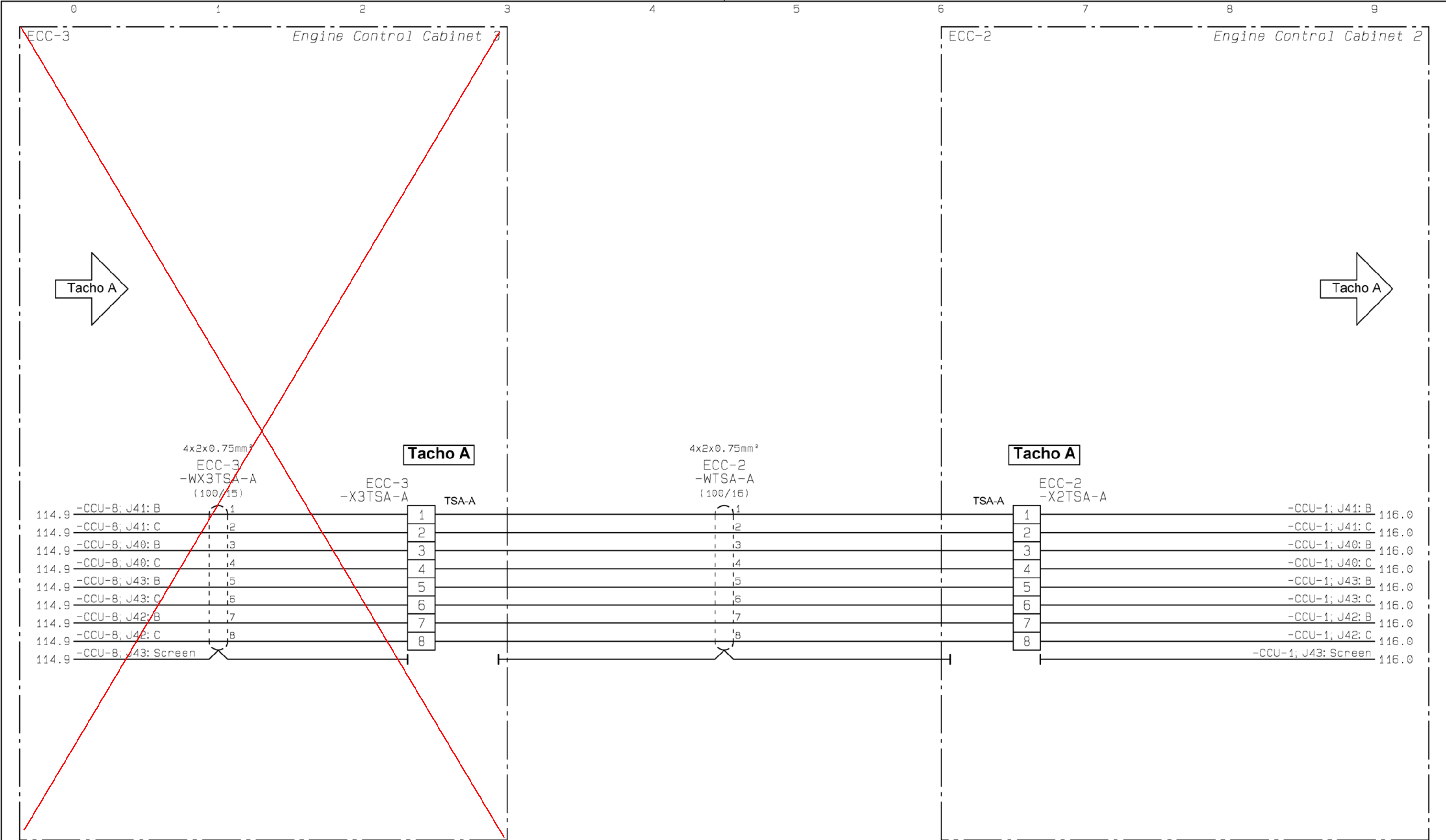
ME ECS ECC-3, Tacho A - CCU-10, CCU-8

Date	Des.	Chk.	A.C.	Revision change			Chg. Not.	Rev.
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Scale:	Size:	Product Type:				Projection:	Page No.:	
	A3	ME ECS 5-12 CYL					114(241)	
Info. No.:		Item Name:				Item Id.:		
7B4200		ENGINE CONTROL				5561674-4		
Final User Info. No.:		Final User Description:				Final User Ident. No.:		

3D Drawing - do not correct

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

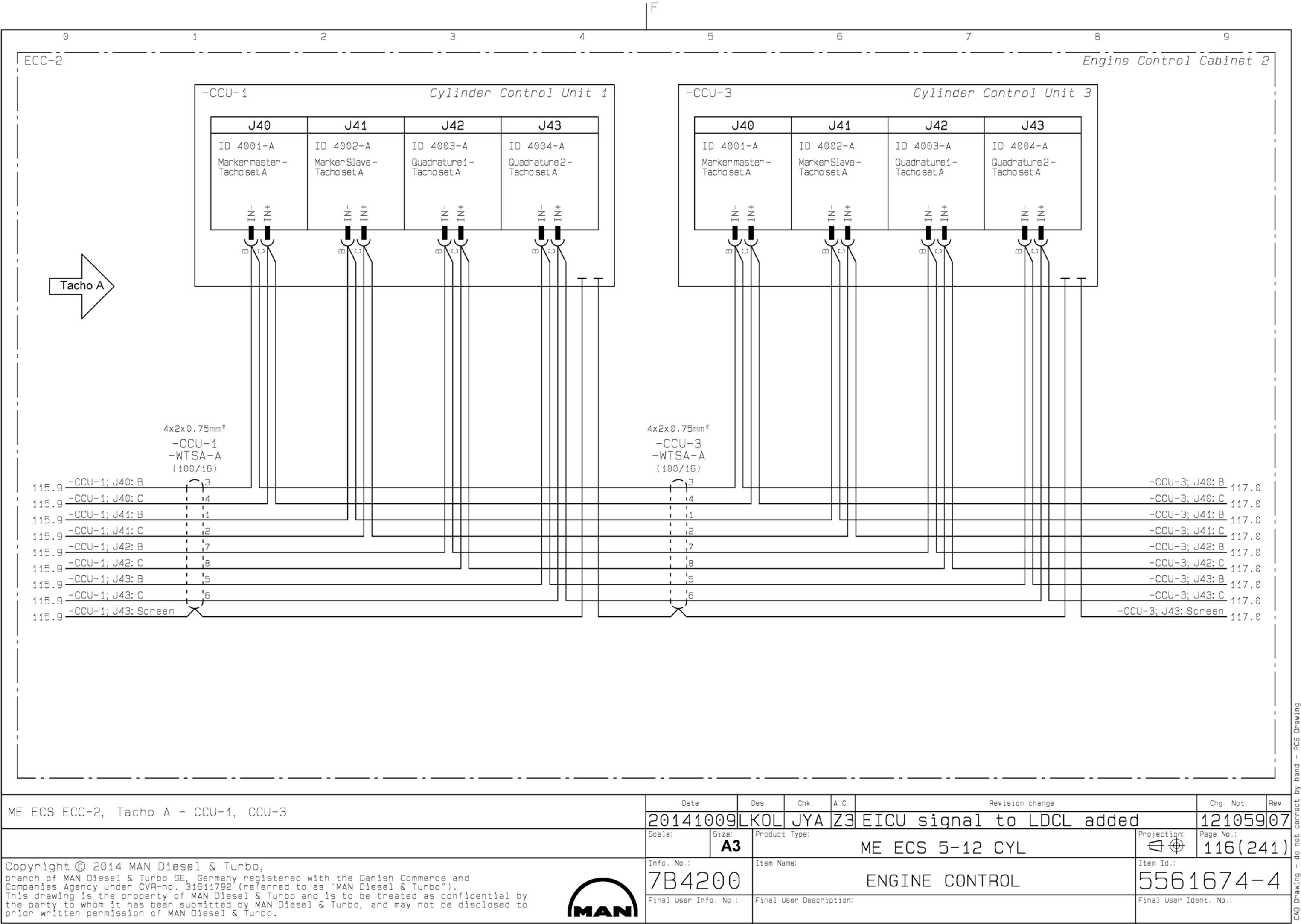
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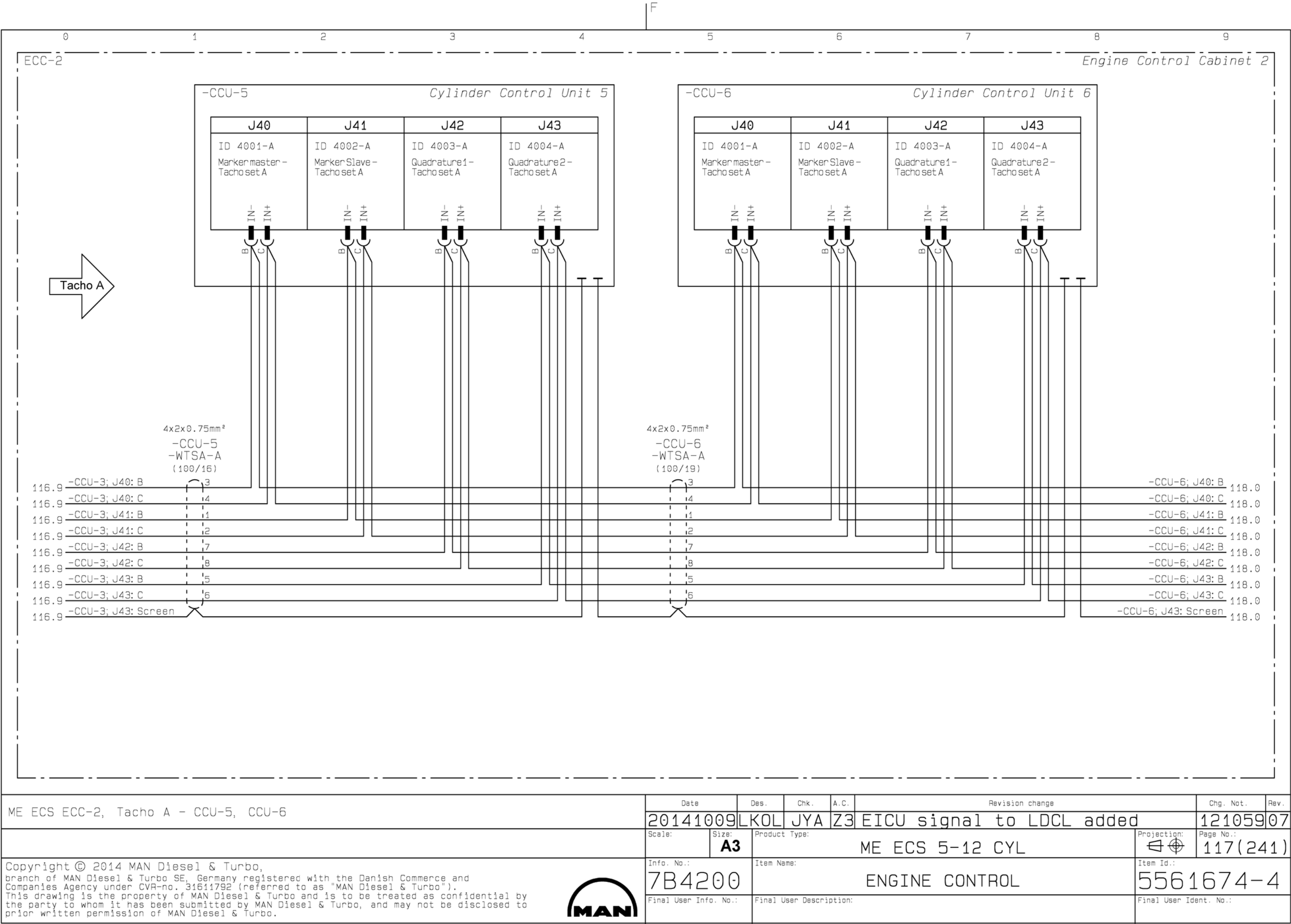
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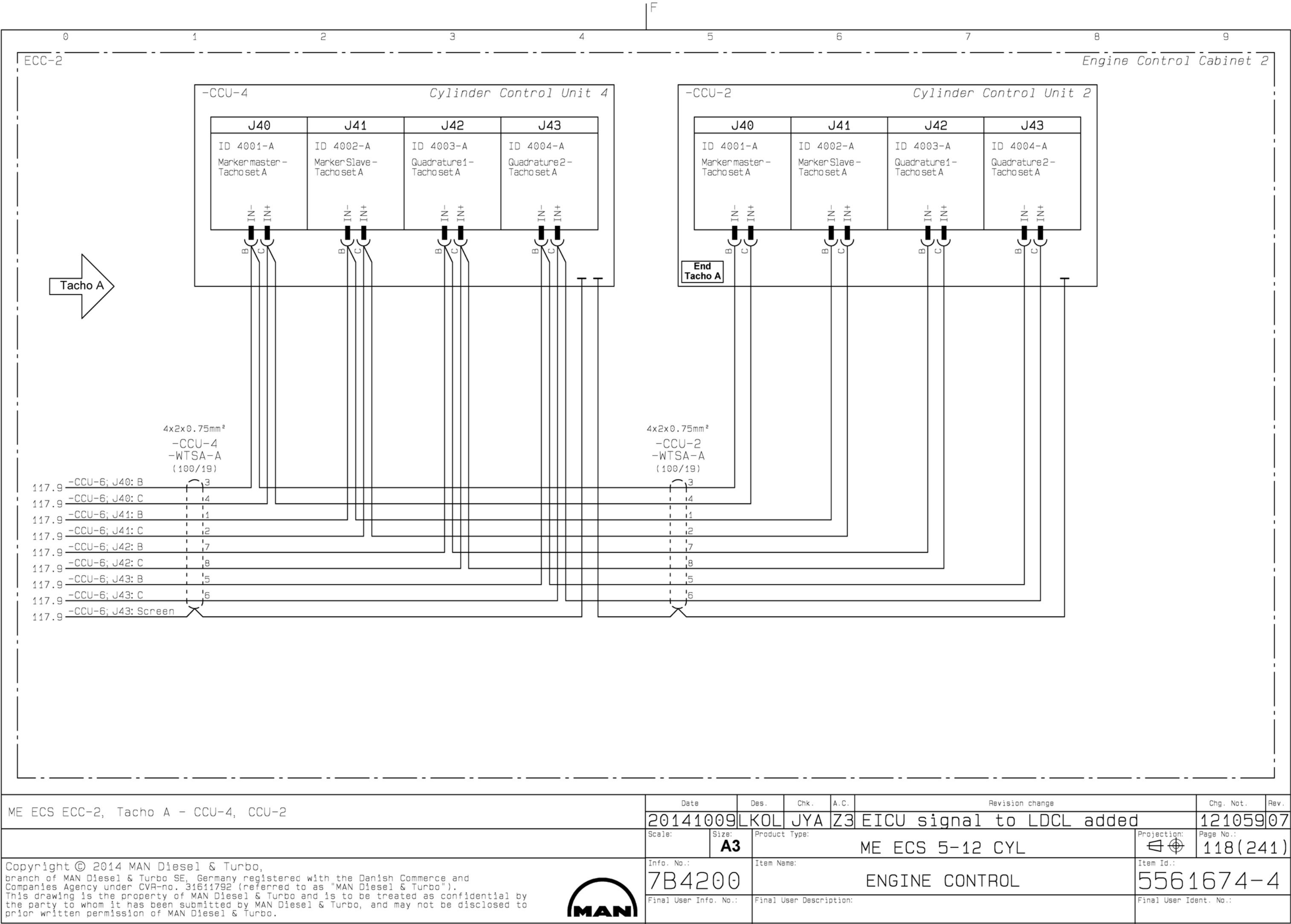
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Info. No.:	Item Name:	Item Id.:
7B4200	ENGINE CONTROL	5561674-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:

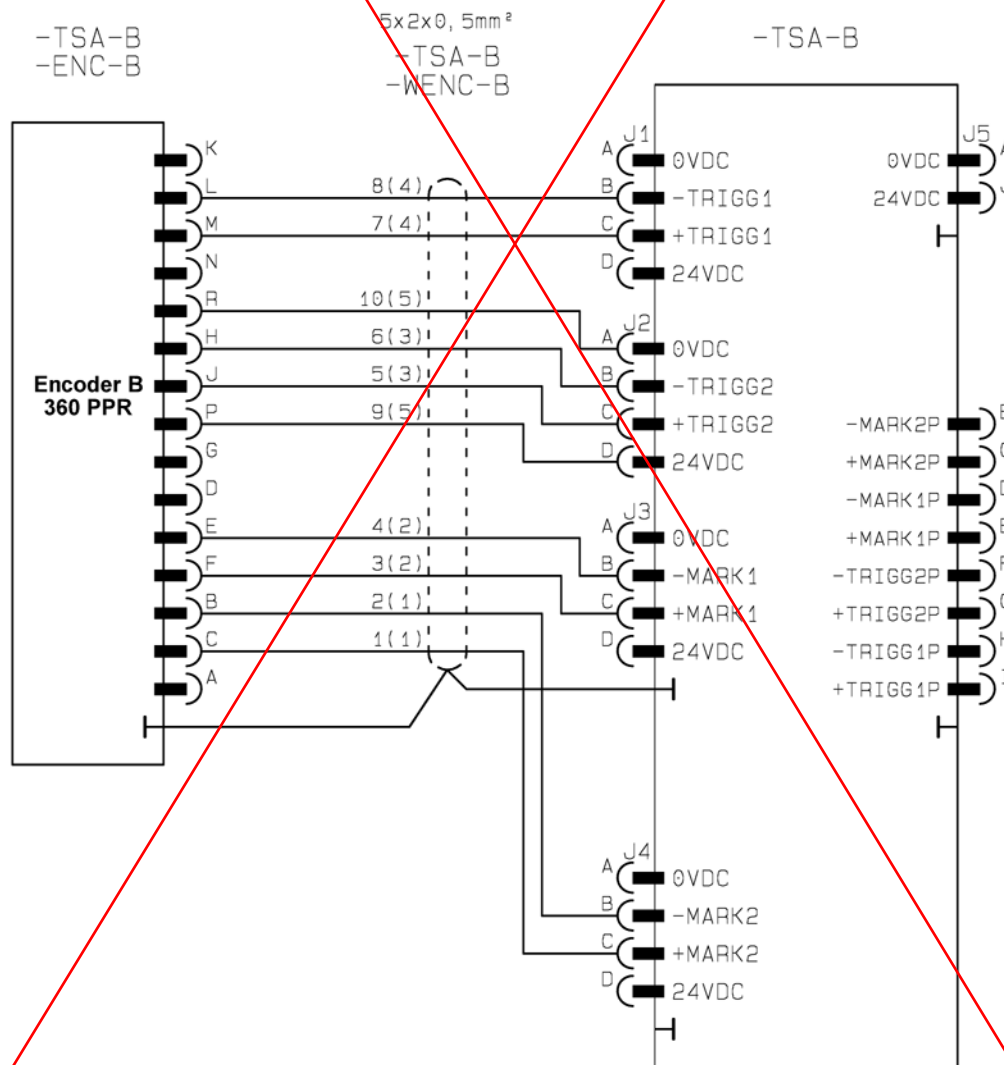






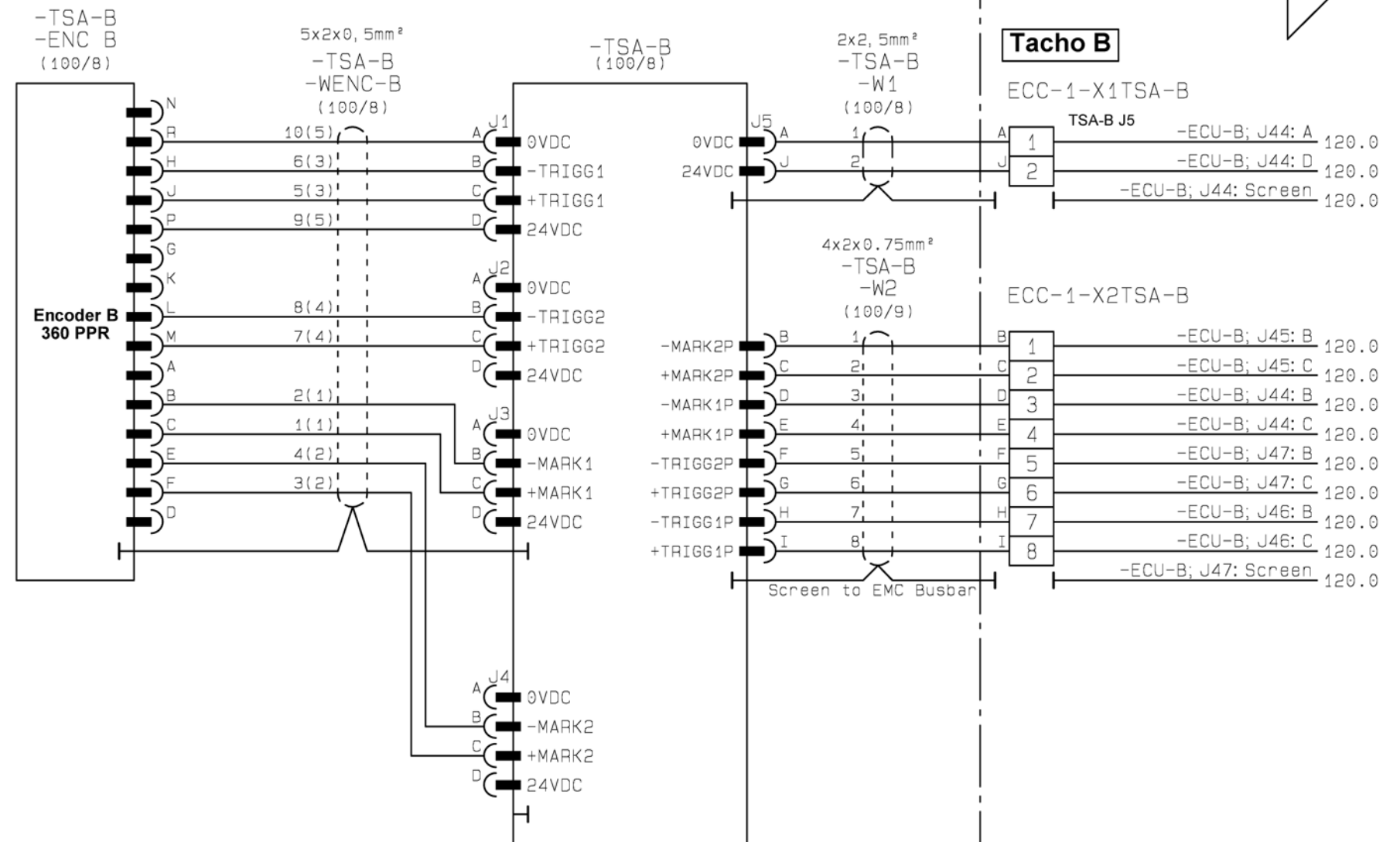
Attention:

Encoder B
Anti-Clockwise connection



Attention:

Encoder B
Clockwise connection



ECC-1
Engine Control Cabinet 1

Tacho B

Tacho B

ECC-1-X1TSA-B
TSA-B J5
1 -ECU-B; J44: A 120.0
2 -ECU-B; J44: D 120.0
-ECU-B; J44: Screen 120.0

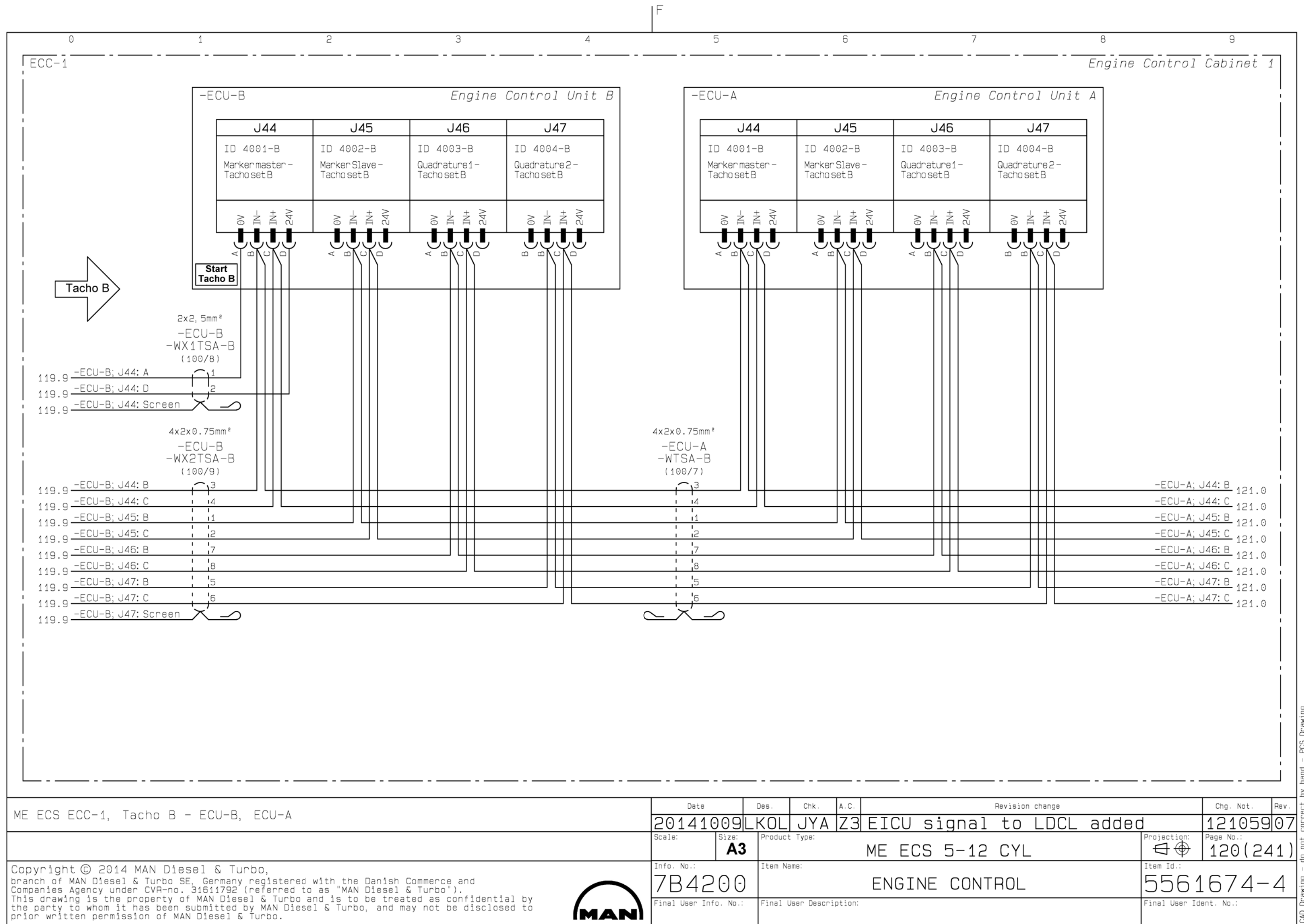
ECC-1-X2TSA-B
1 -ECU-B; J45: B 120.0
2 -ECU-B; J45: C 120.0
3 -ECU-B; J44: B 120.0
4 -ECU-B; J44: C 120.0
5 -ECU-B; J47: B 120.0
6 -ECU-B; J47: C 120.0
7 -ECU-B; J46: B 120.0
8 -ECU-B; J46: C 120.0
-ECU-B; J47: Screen 120.0

ME ECS ECC-1, Tacho B Encoder Box connections

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Date	Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 119(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
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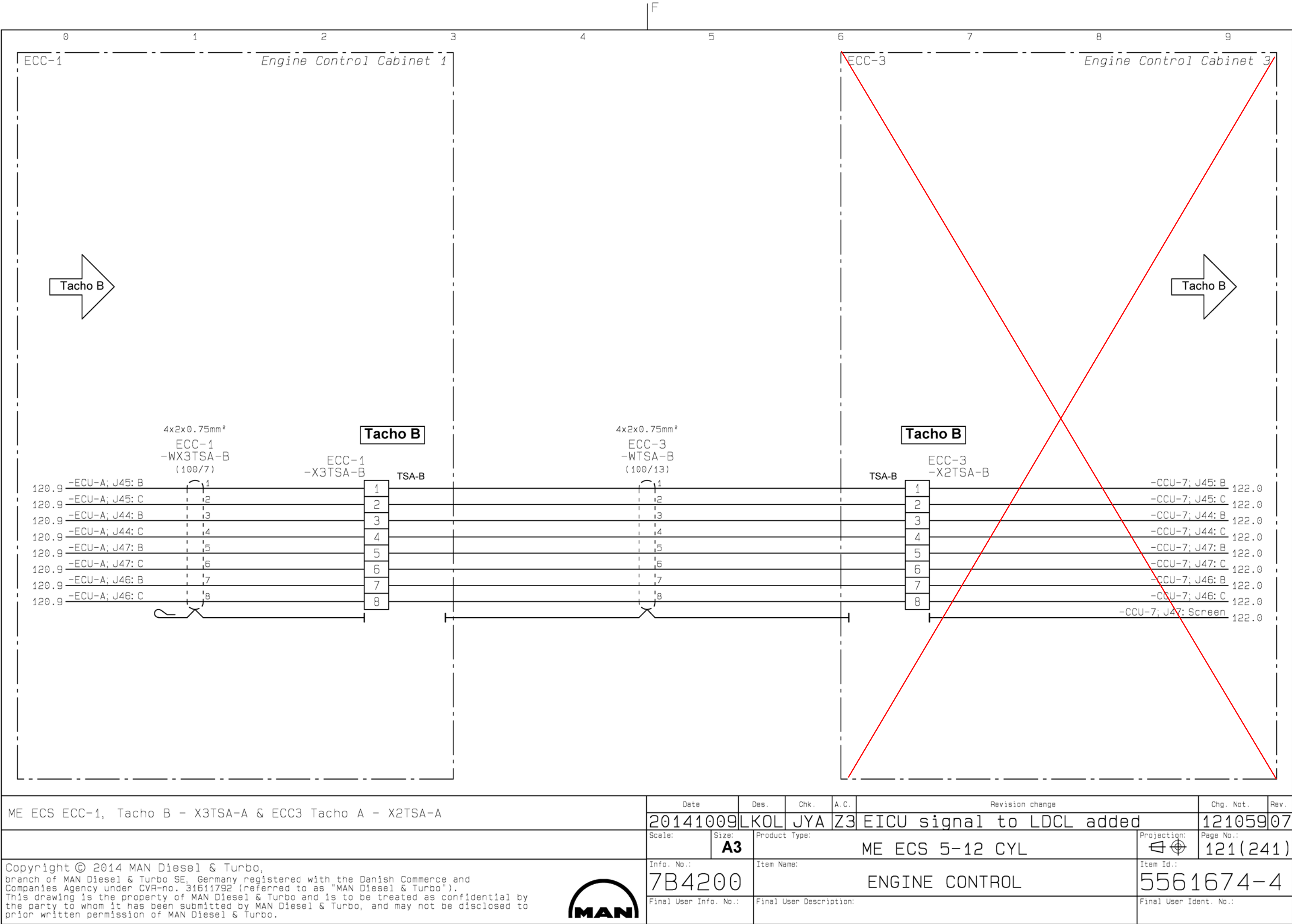


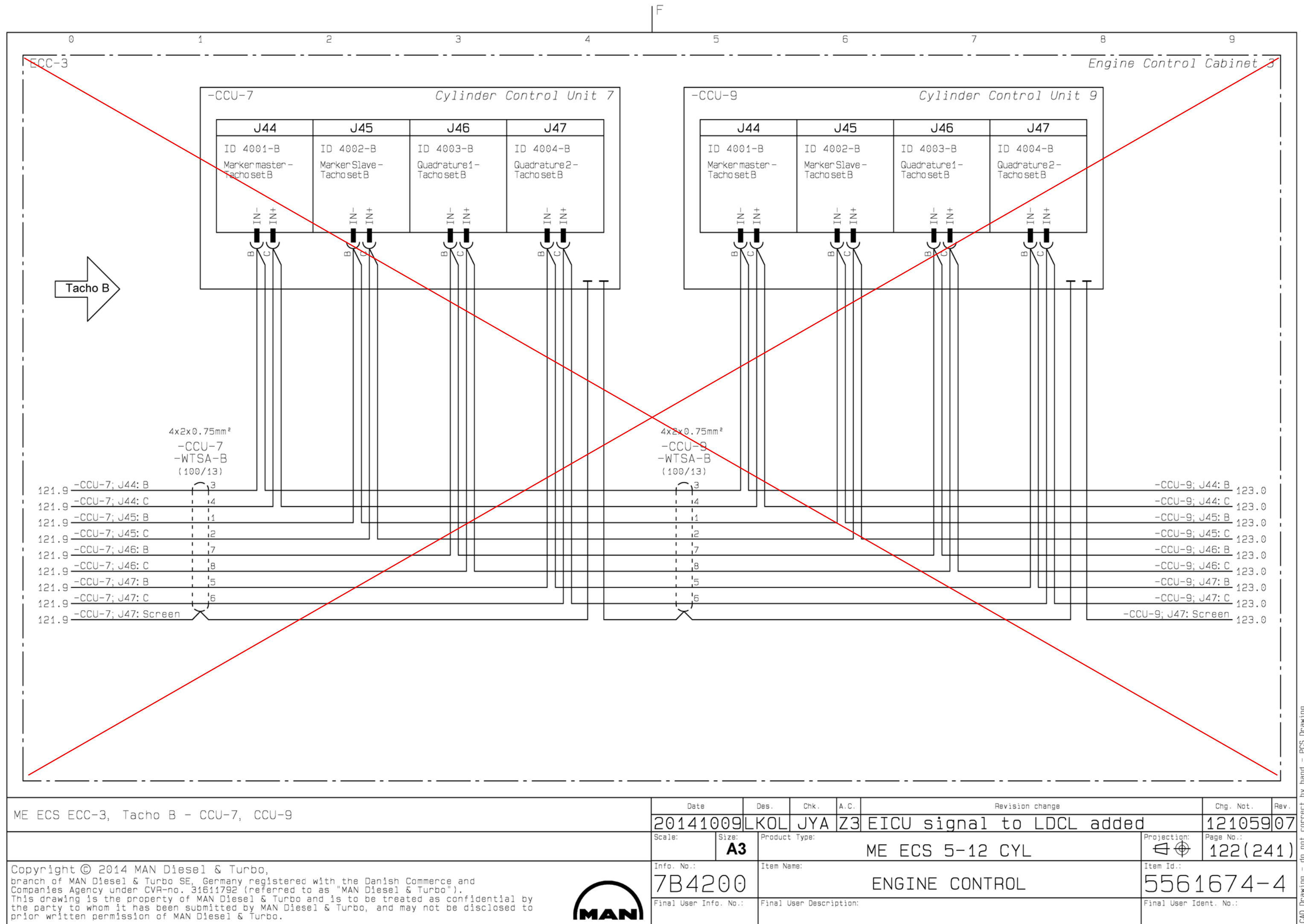
ME ECS ECC-1, Tacho B - ECU-B, ECU-A

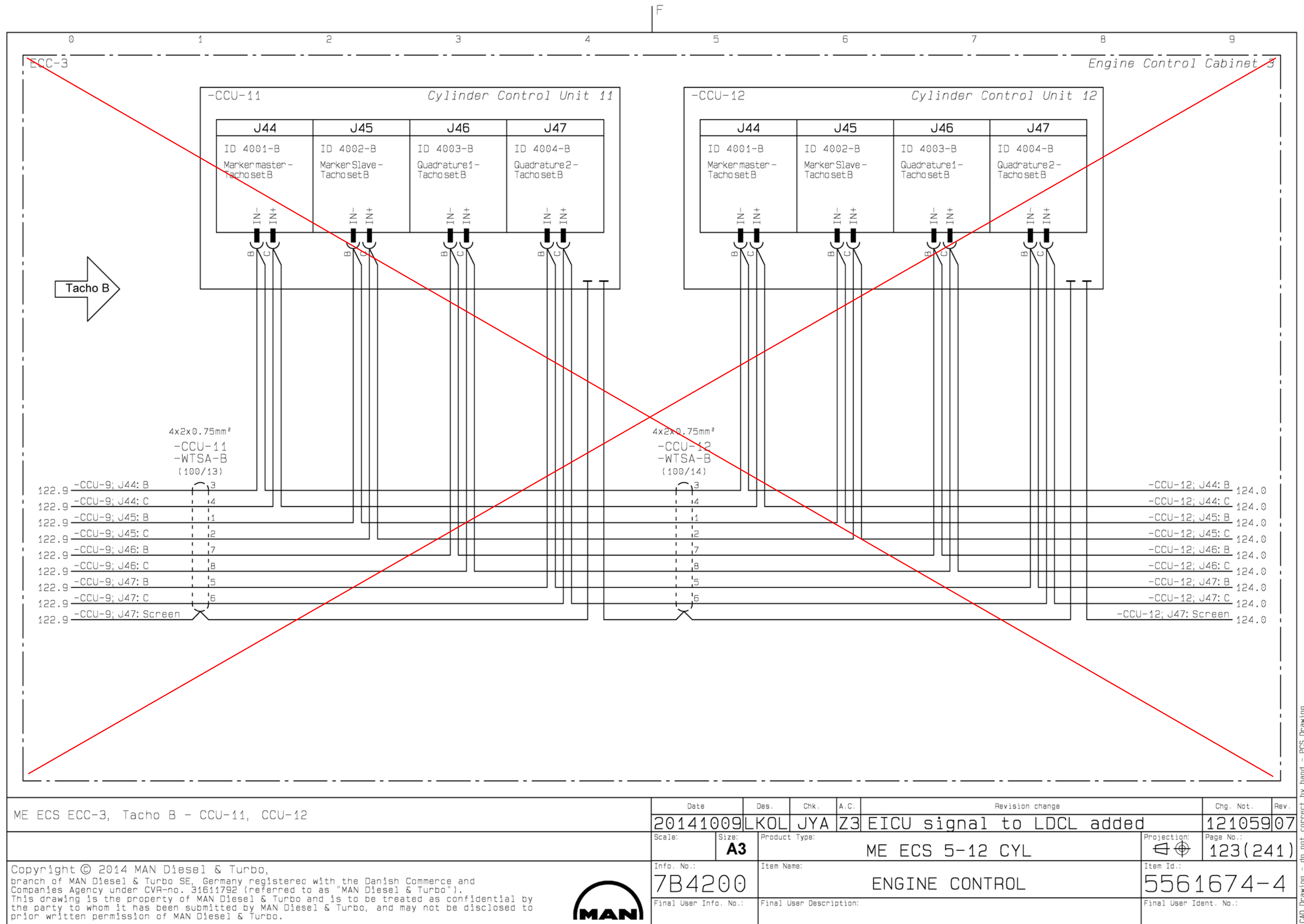
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Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				120(241)
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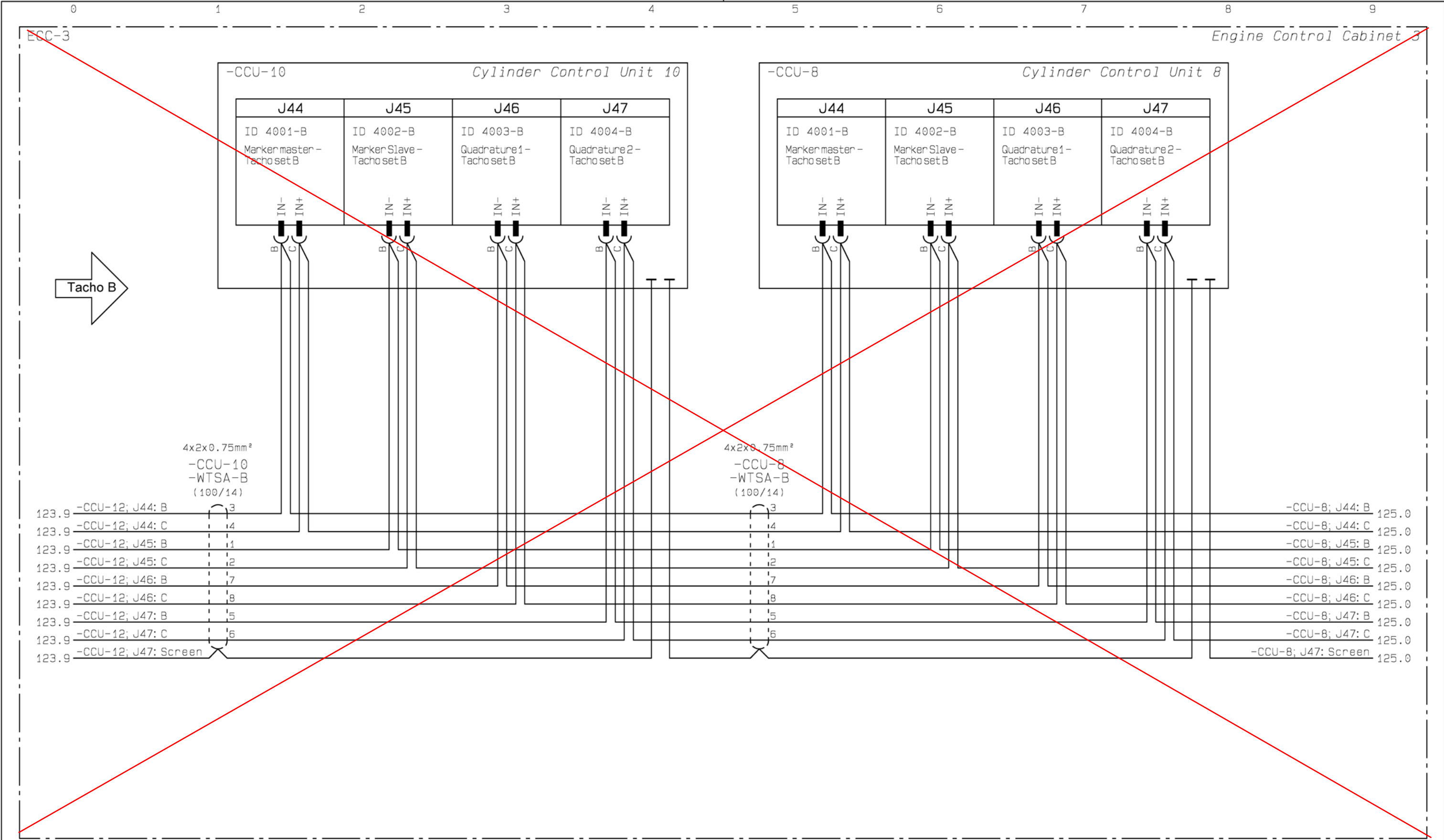
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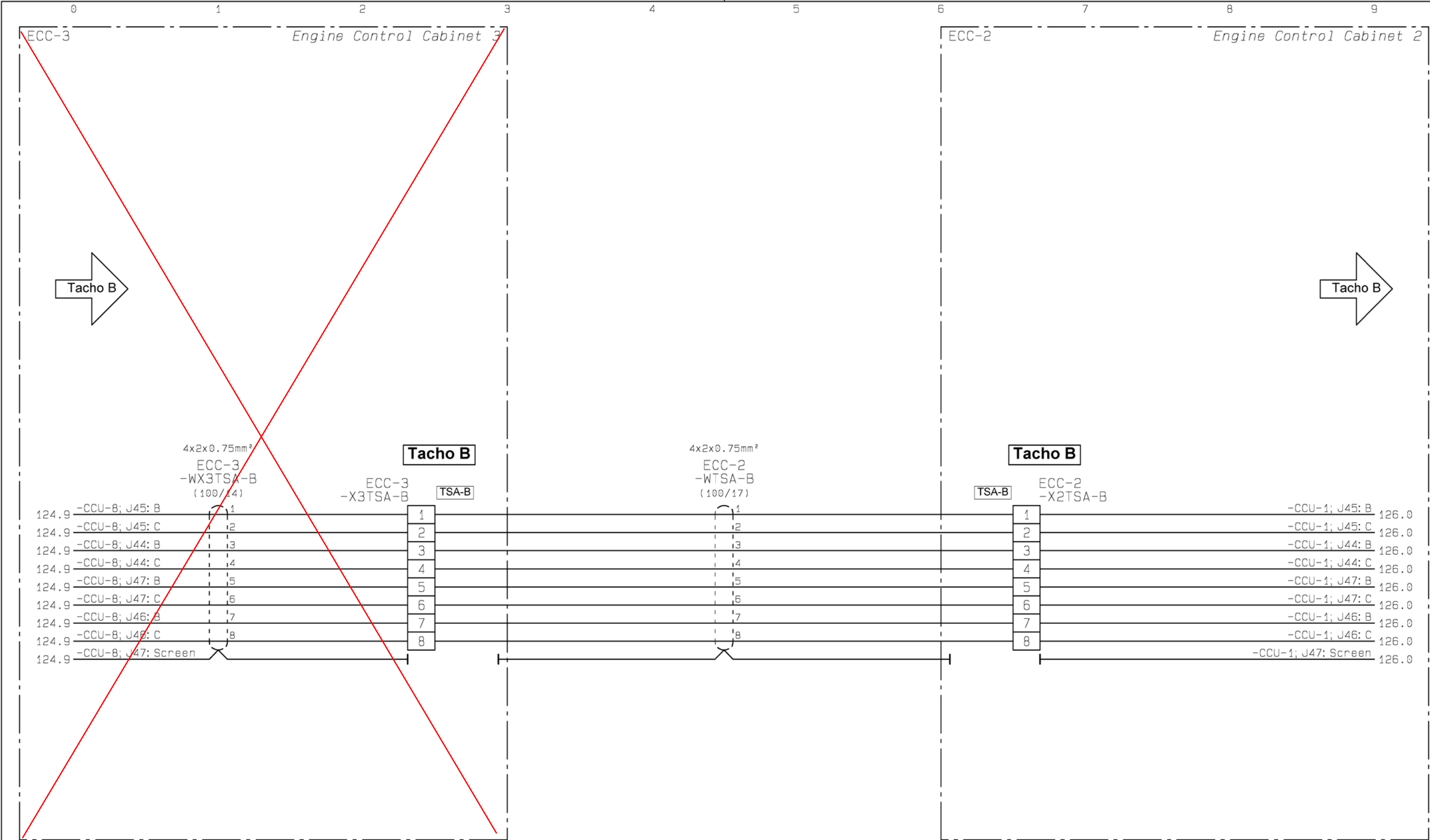






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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





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

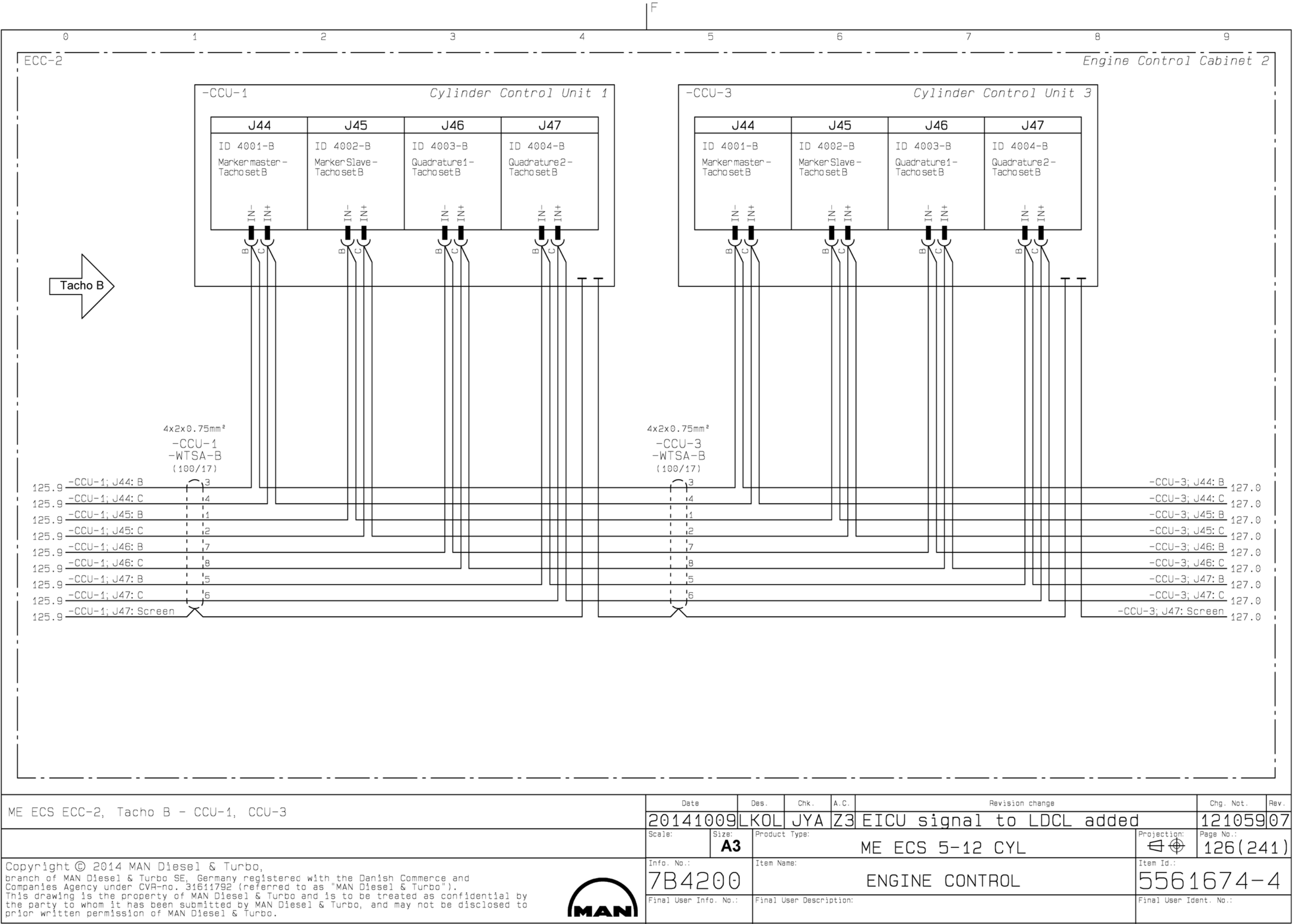
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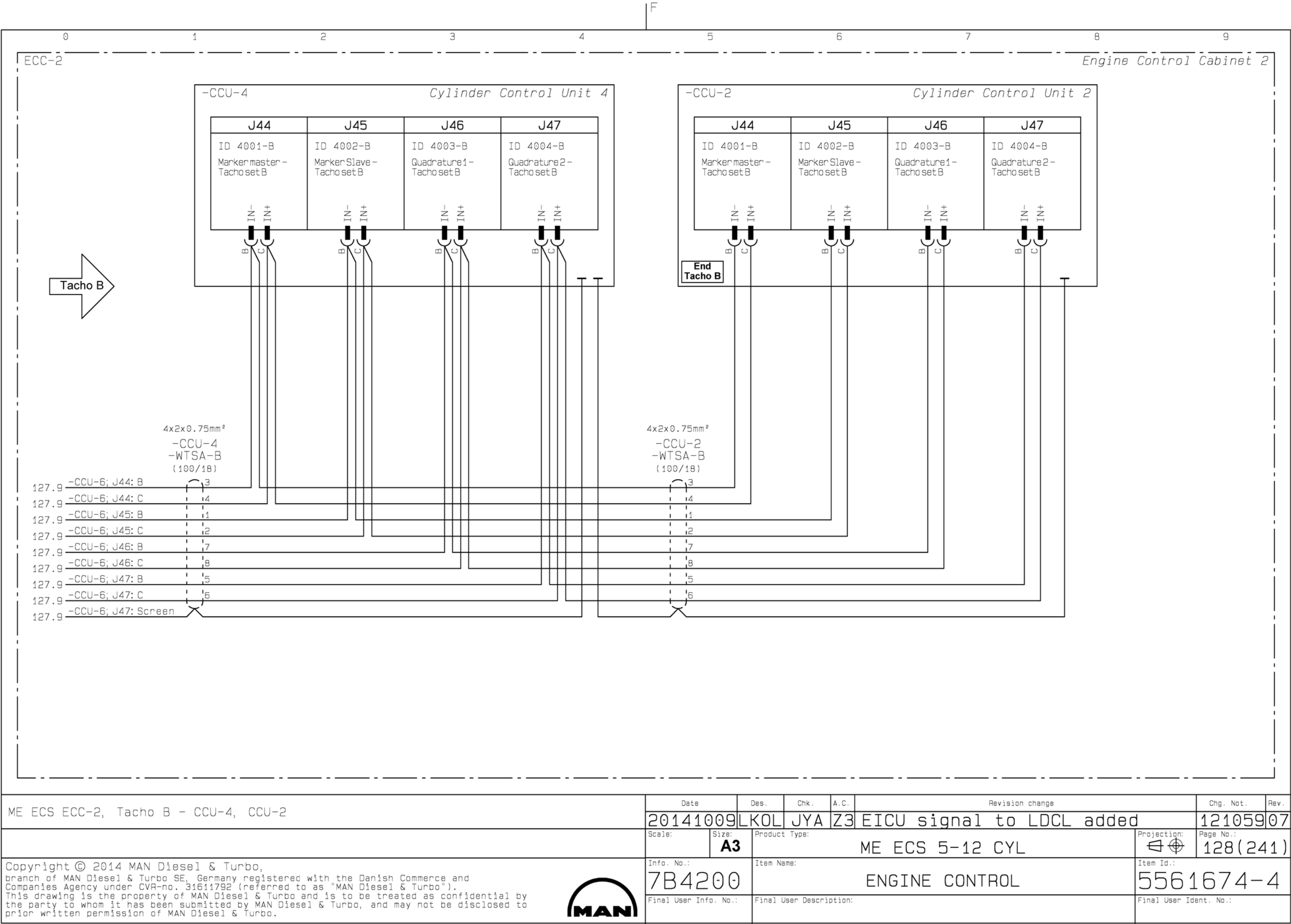
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Info. No.: 7B4200	Item Name: ENGINE CONTROL	Item Id.: 5561674-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:





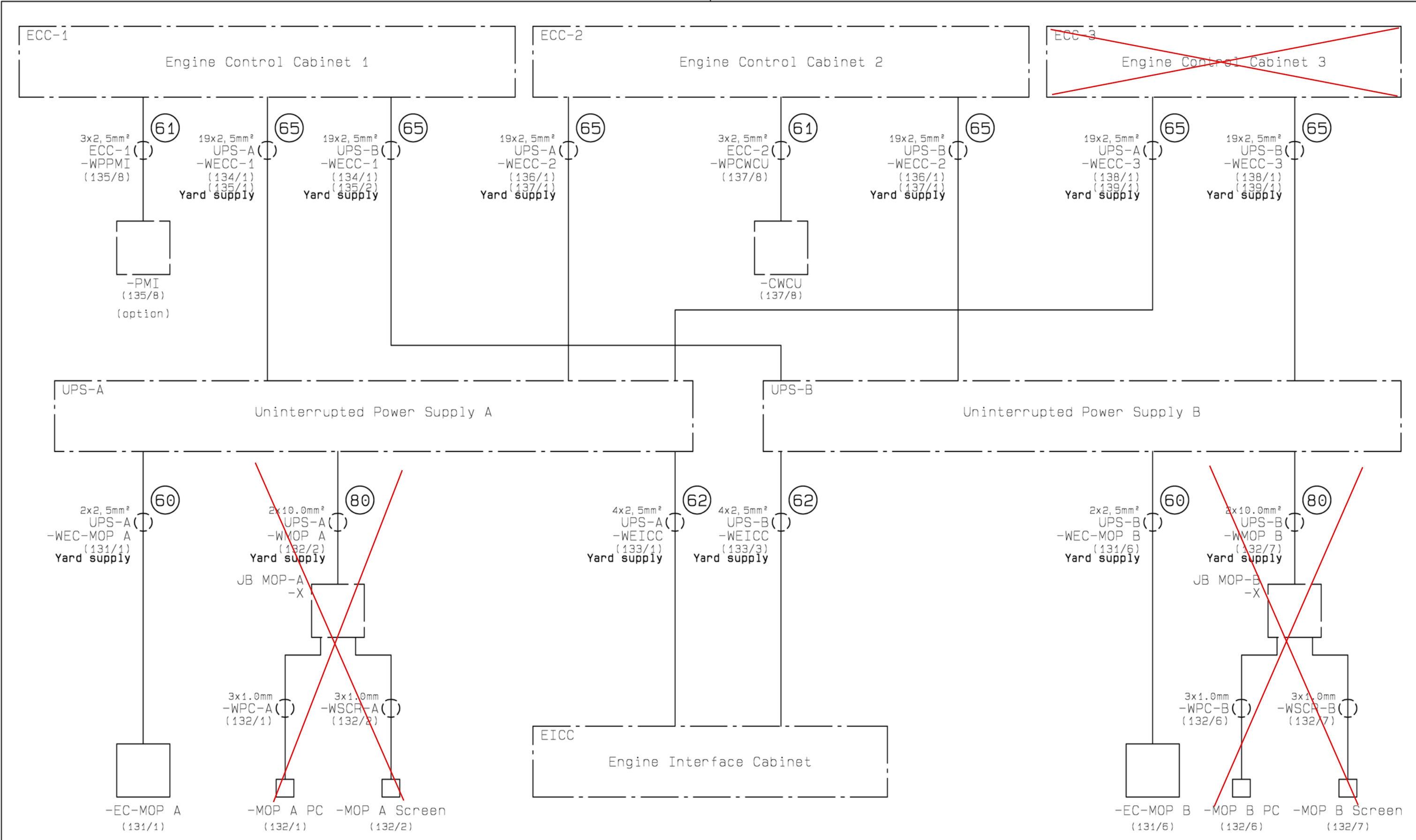
10 POWER & INSULATION RESISTANCE MONITORING

Page 130...146

POWER & INSULATION RESISTANCE MONITORING	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					129(241)	
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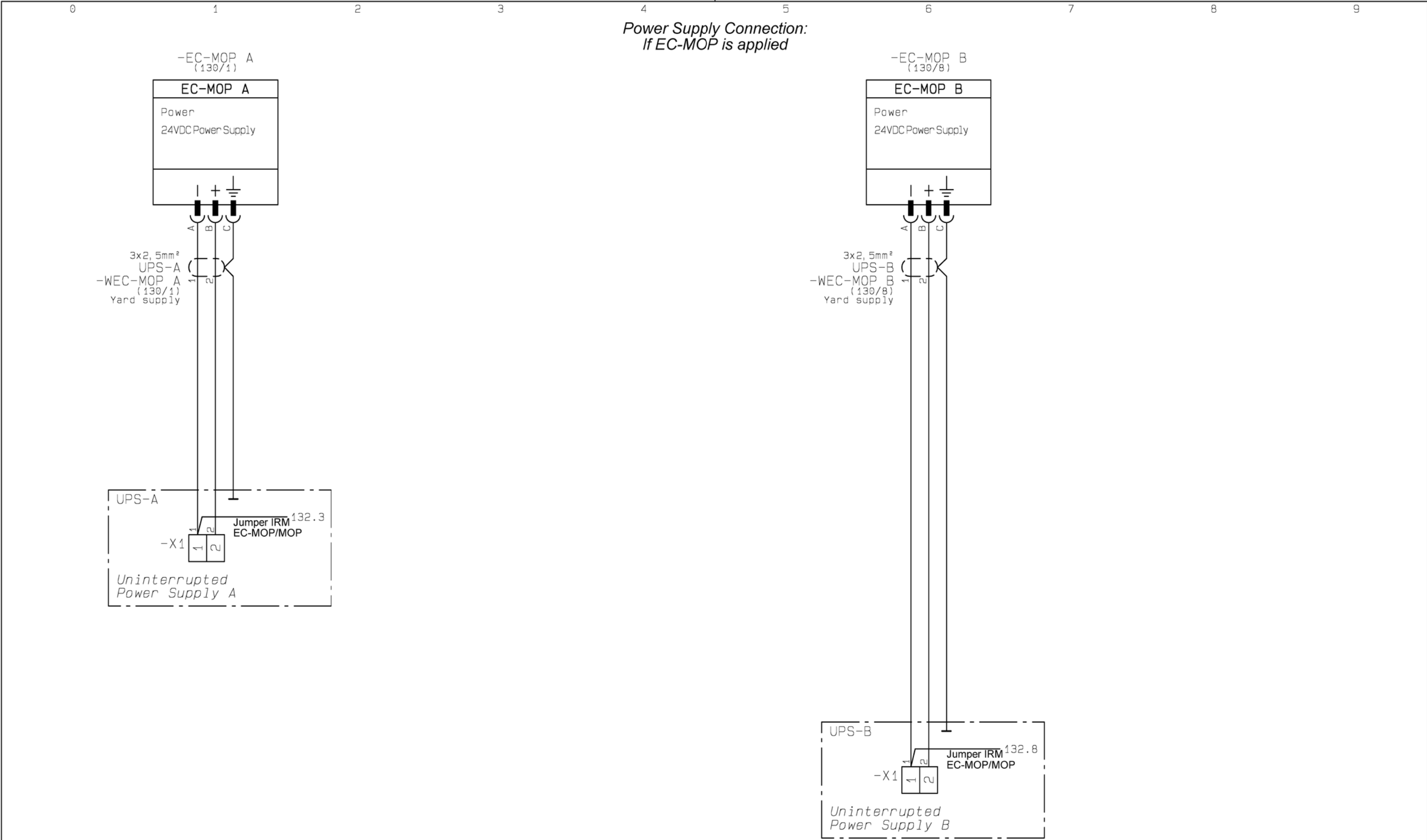
CAD Drawing - do not correct by hand - PCS Drawing



24VDC Power, Layout / Overview	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
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	Scale:	Size:	Product Type:				Projection:	Page No.:
		A3	ME ECS 5-12 CYL					130(241)
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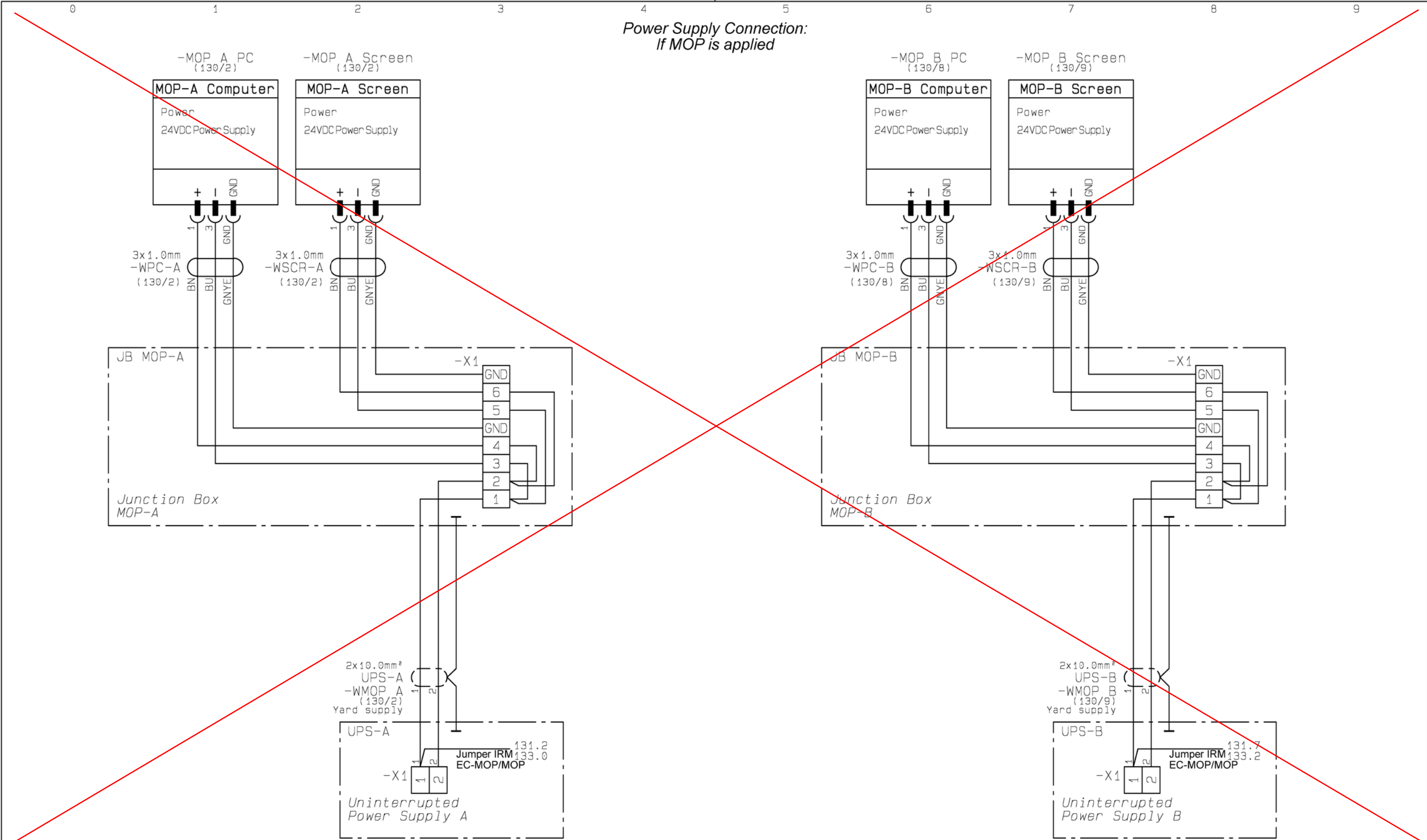






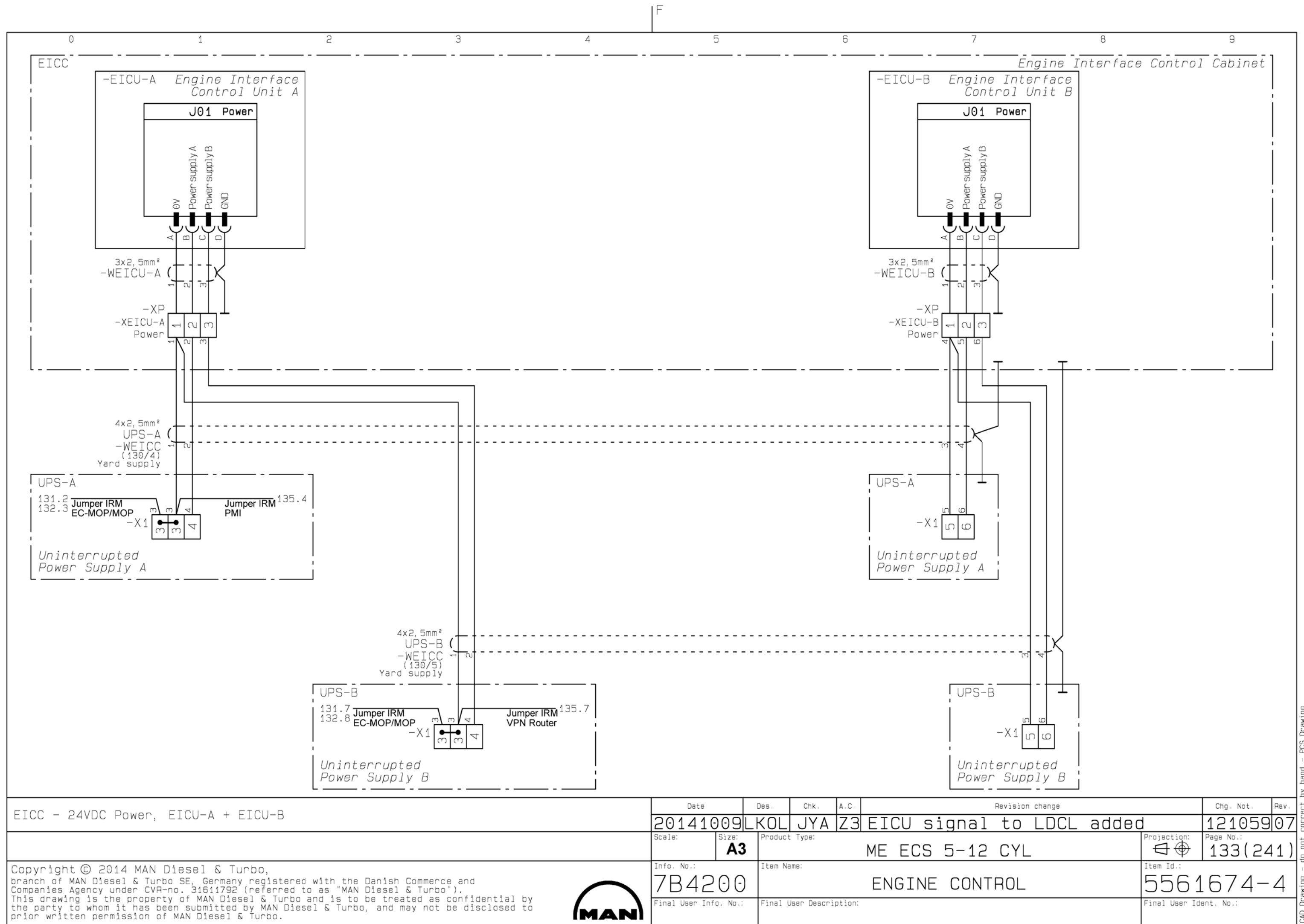
24VDC Power, EC-MOP A + EC-MOP B	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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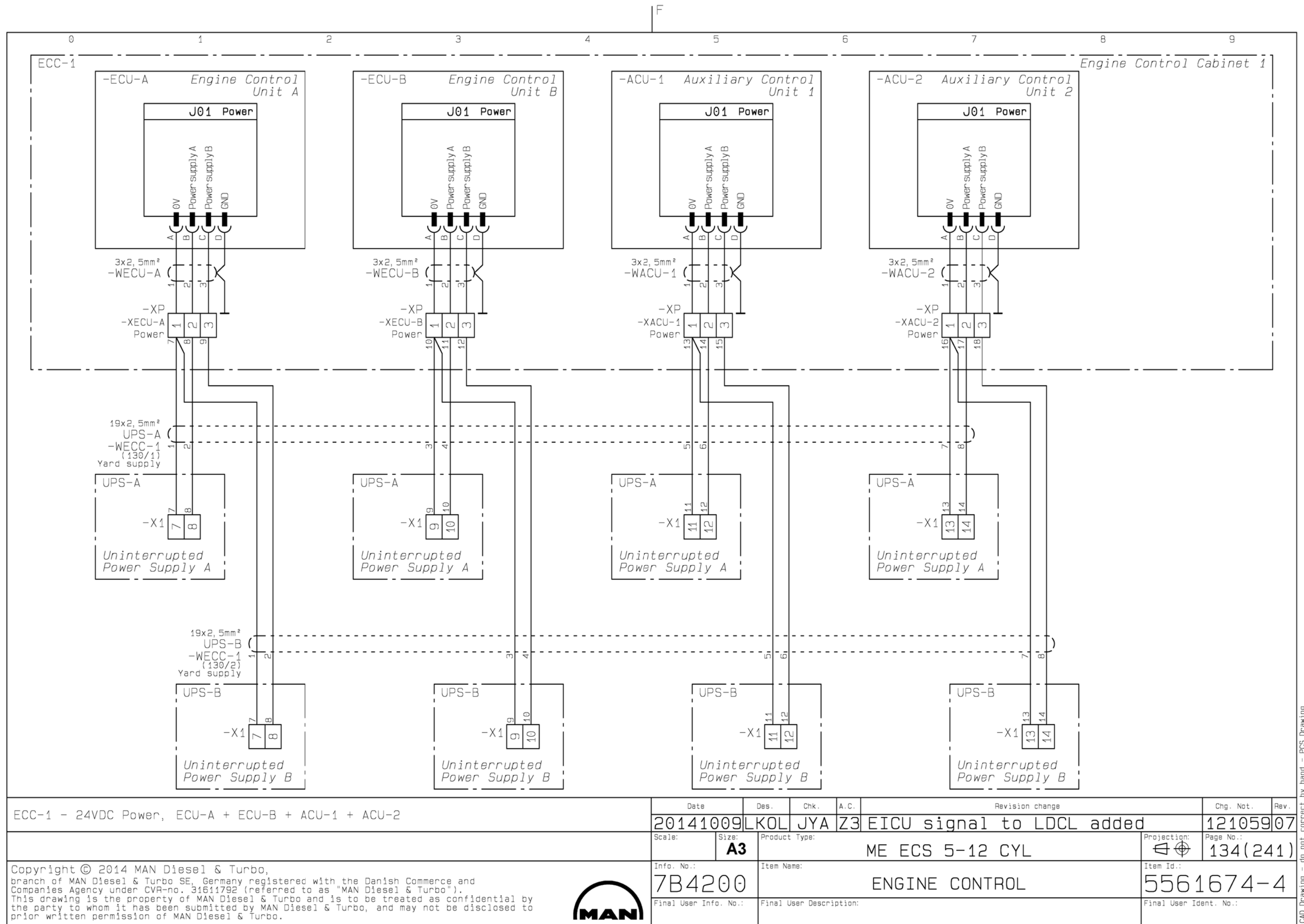


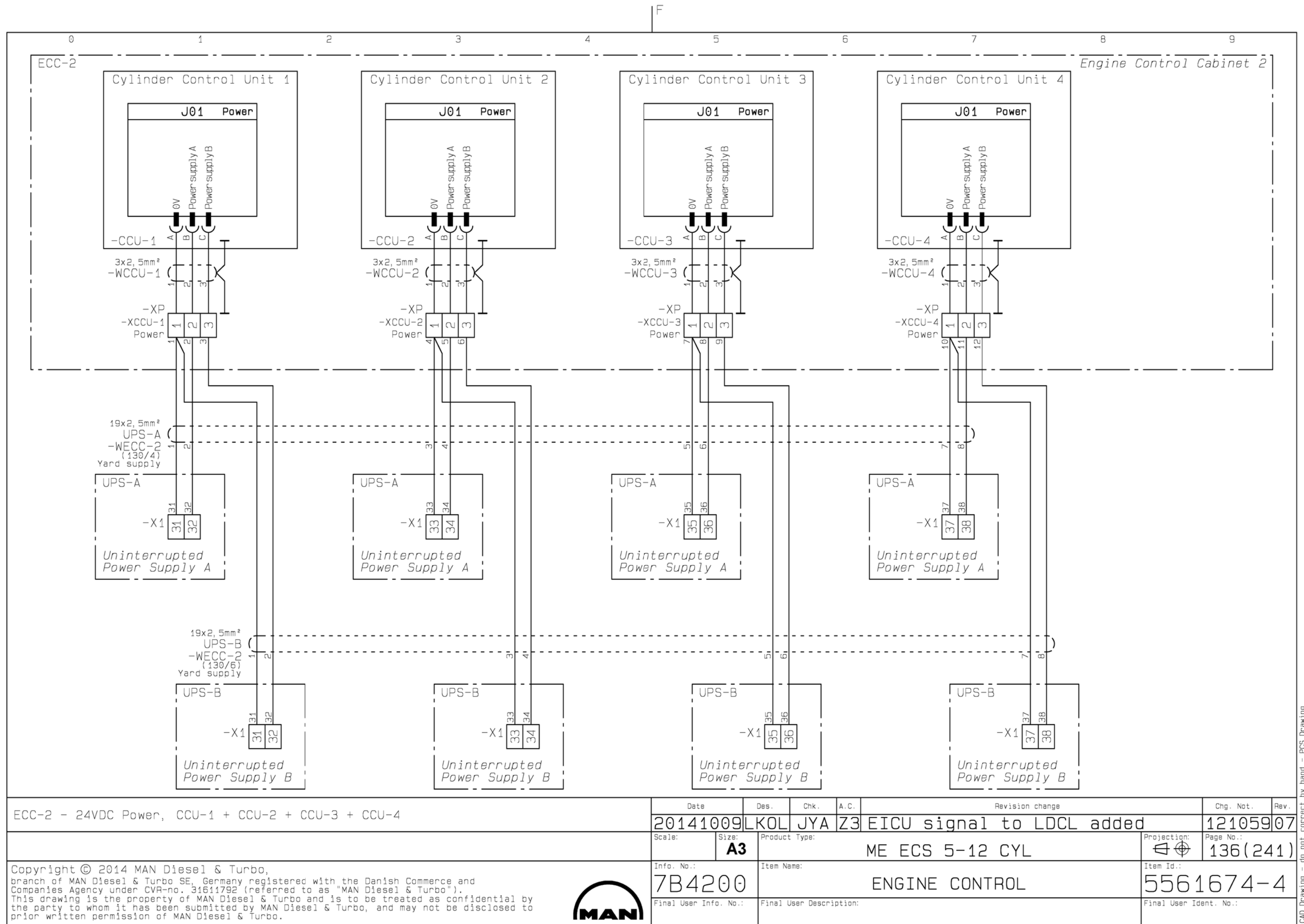


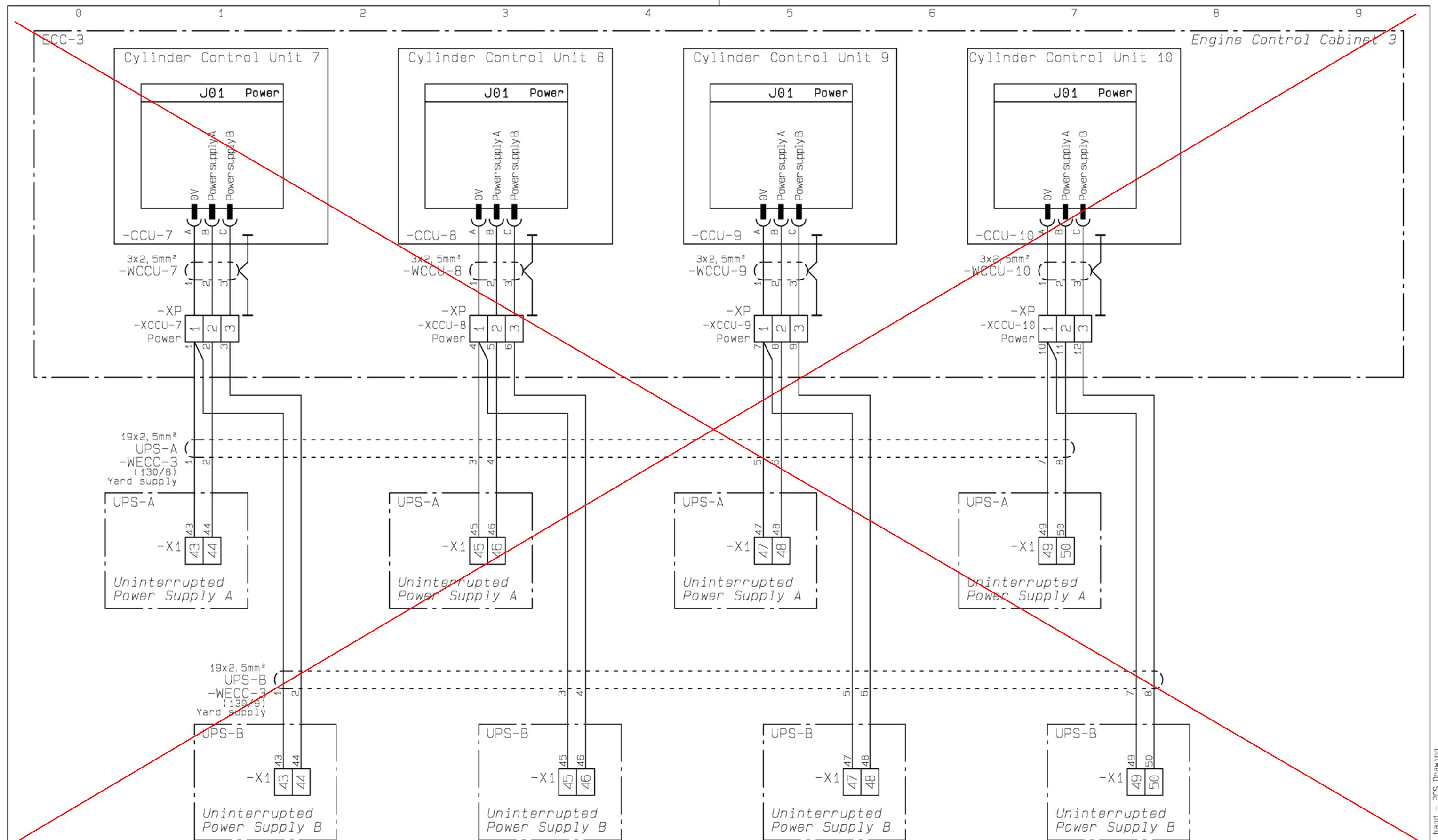
24VDC Power, MOP A + MOP B	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
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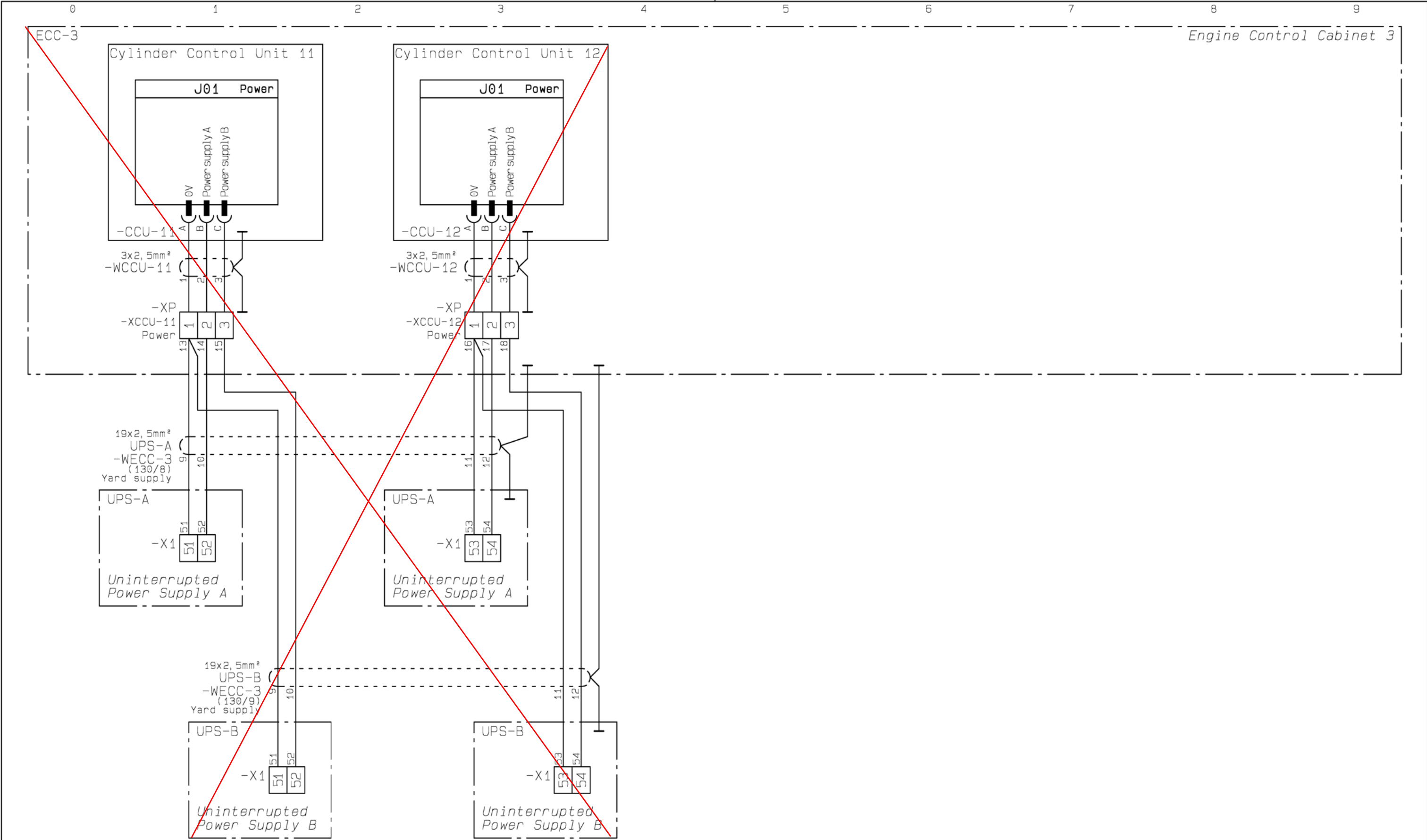


ECC-3 - 24VDC Power, CCU-7 + CCU-8 + CCU-9 + CCU-10

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 138(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

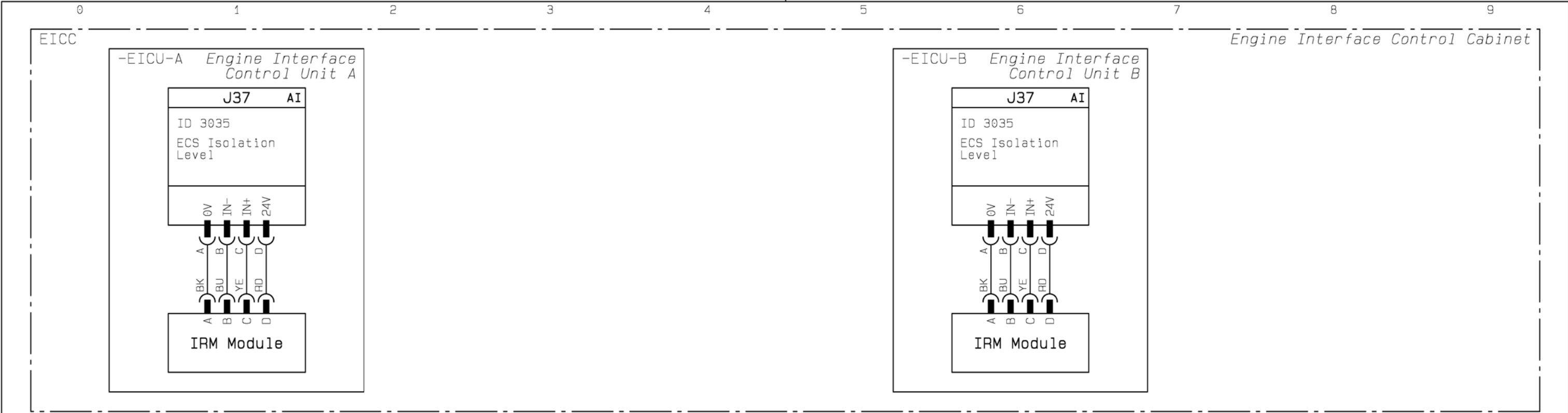


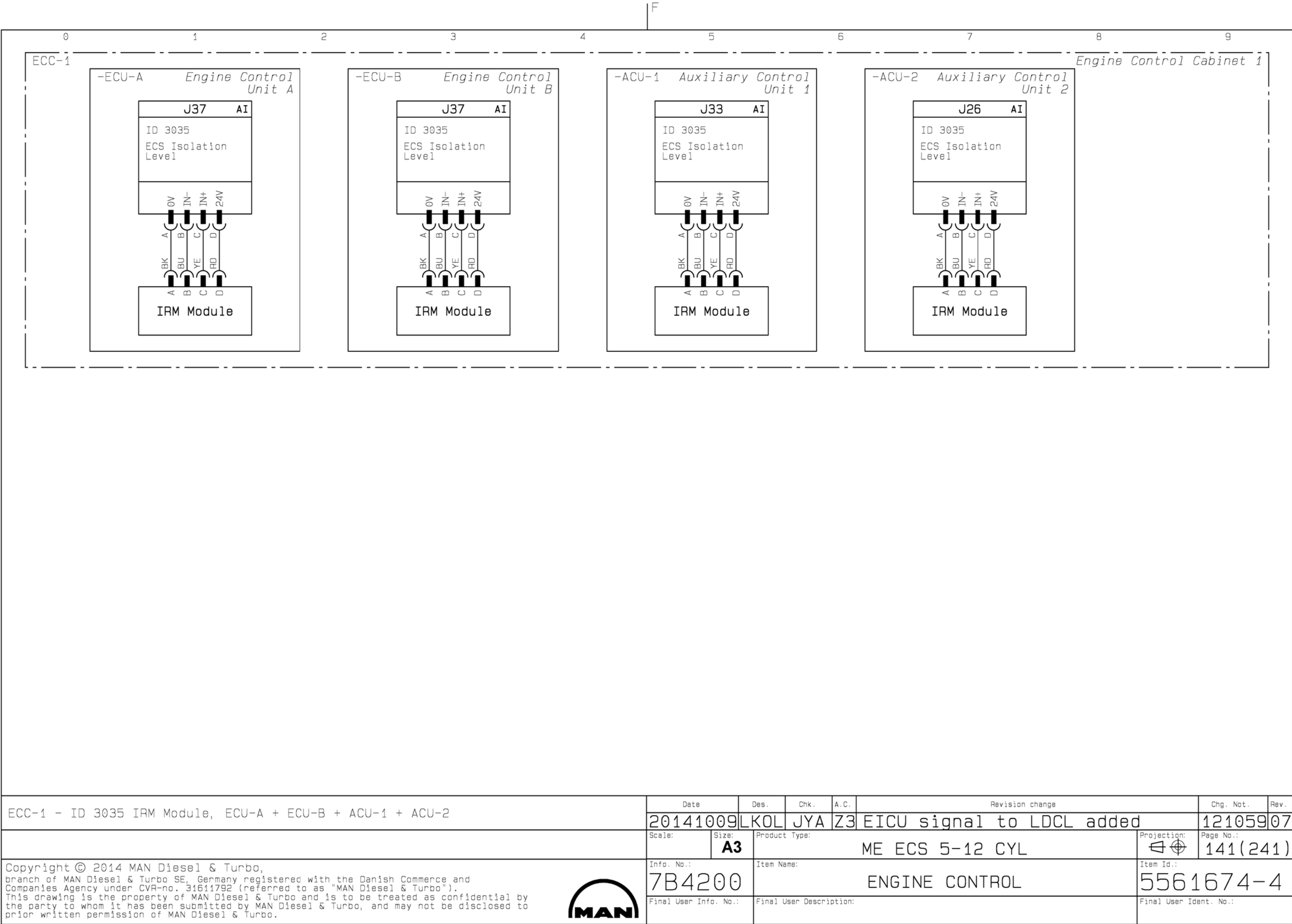
ECC-3 - 24VDC Power, CCU-11 + CCU-12

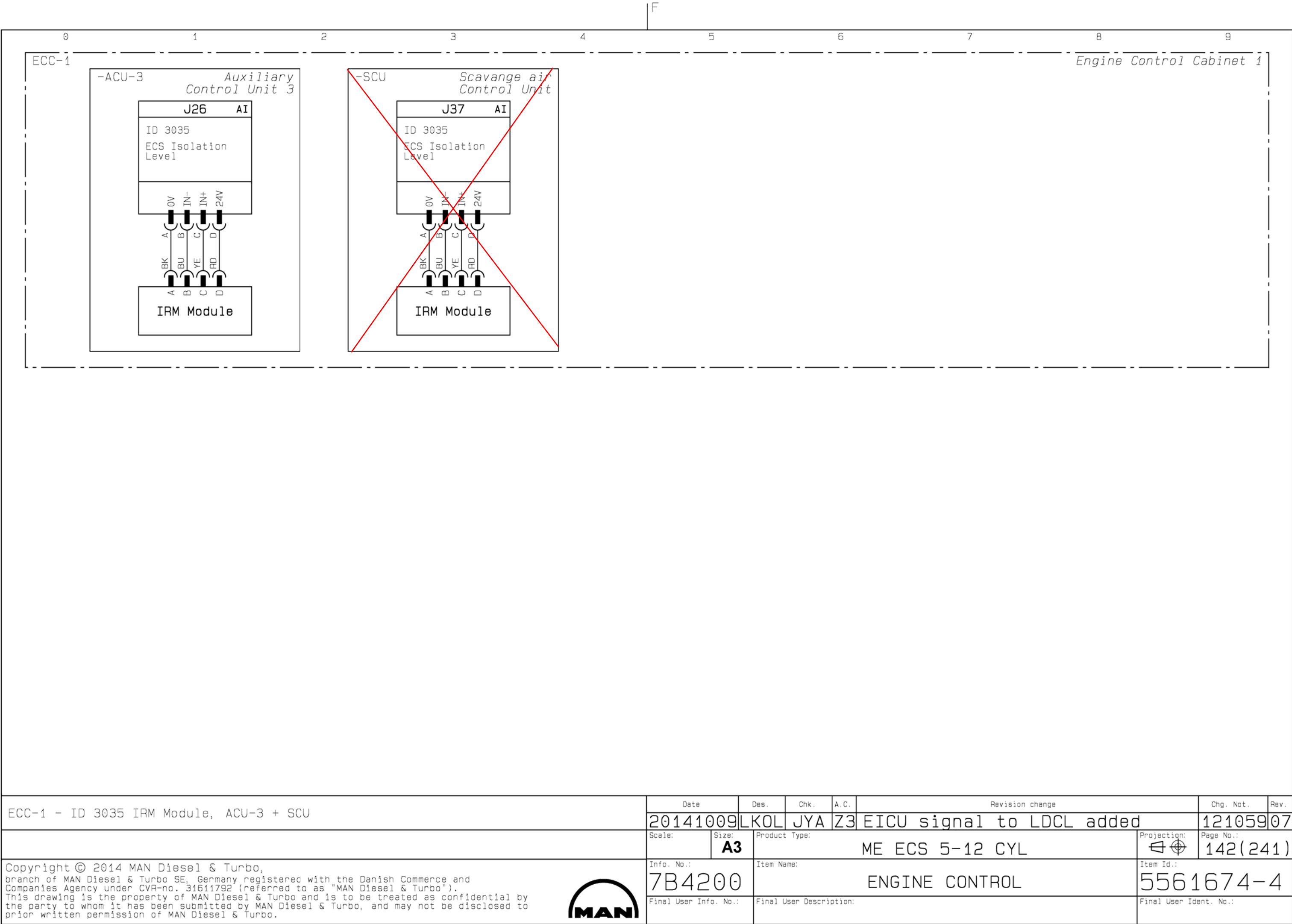
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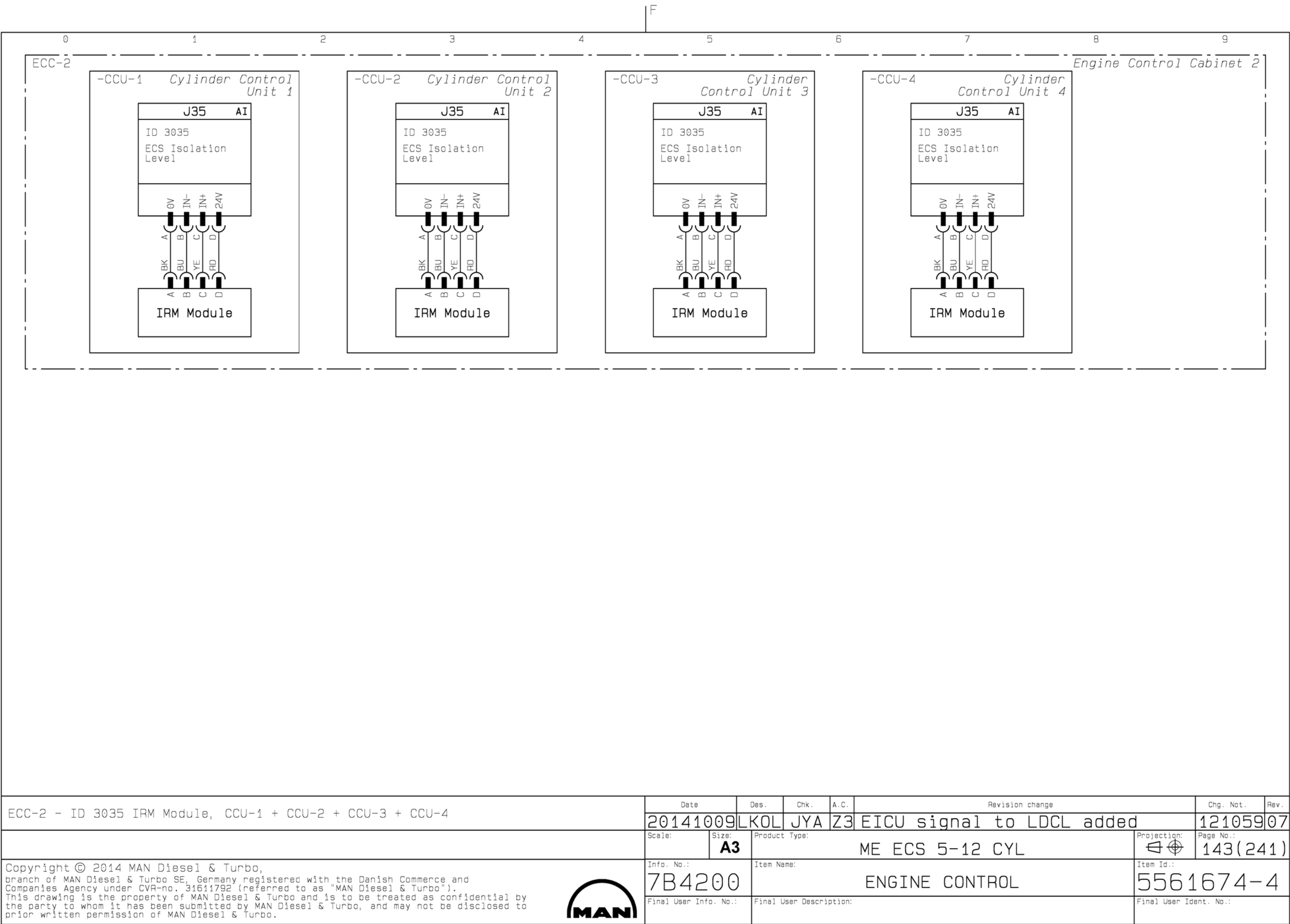


Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 139(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	









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

Date

Des.

Chk.

A.C.

Revision change

Chg. Not.

Rev.

20141009

LKOL

JYA

Z3

EICU signal to LDCL added

12105907

Scale:

Size:

Product Type:

Projection:

Page No.:

A3

ME ECS 5-12 CYL

143(241)

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Info. No.:

Item Name:

Item Id.:

7B4200

ENGINE CONTROL

5561674-4

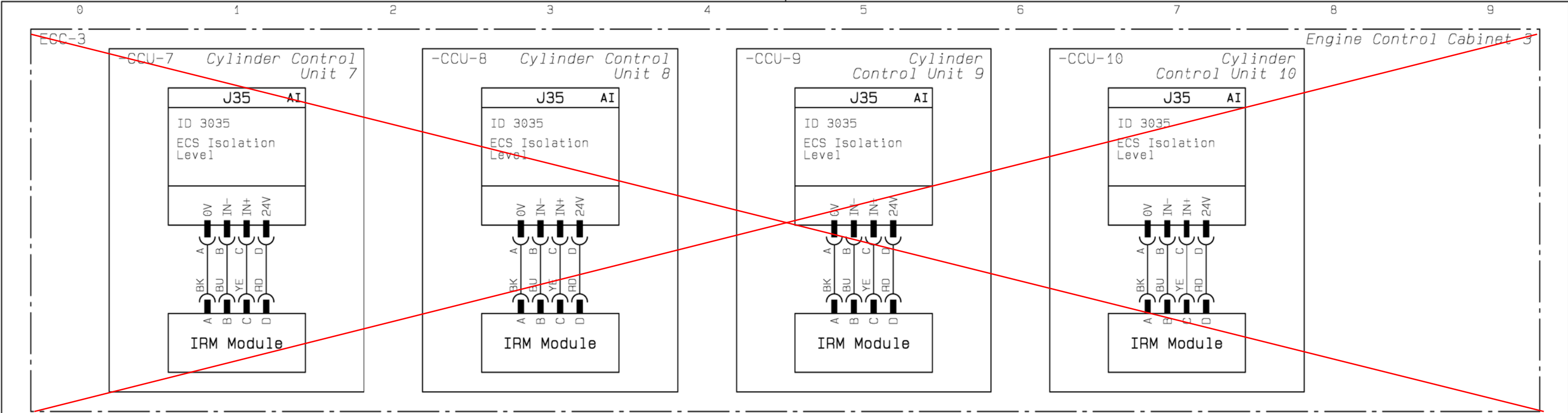
Final User Info. No.:

Final User Description:

Final User Ident. No.:

F

F

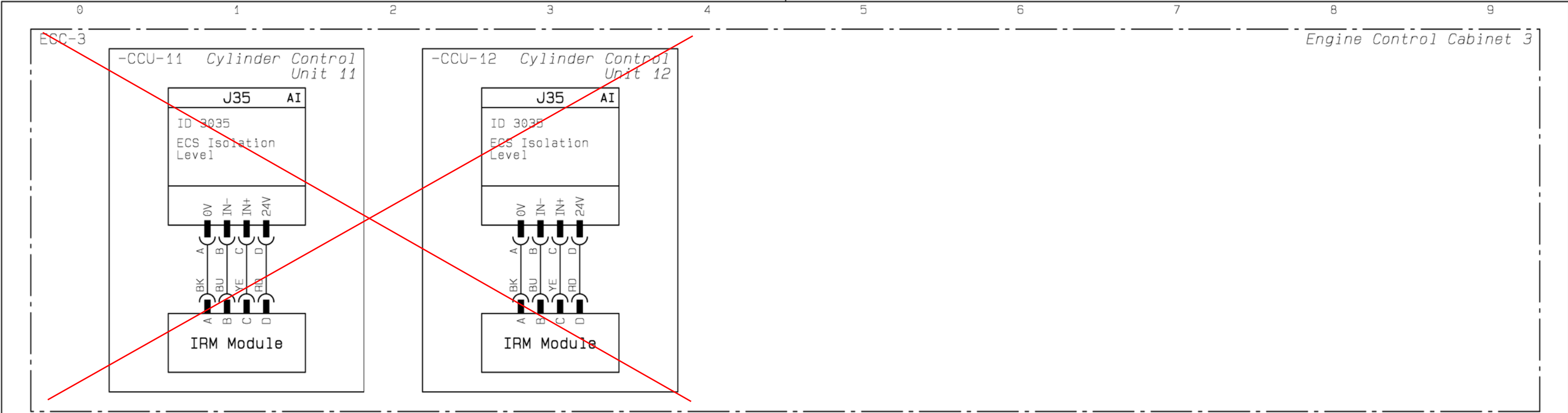


ECC-3 - ID 3035 IRM Module, CCU-7 + CCU-8 + CCU-9 + CCU-10

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size:	Product Type:	Projection:	Page No.:		
	A3	ME ECS 5-12 CYL		145(241)		
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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11 ECS INTERFACE TO ALARM SYSTEM AND ECR

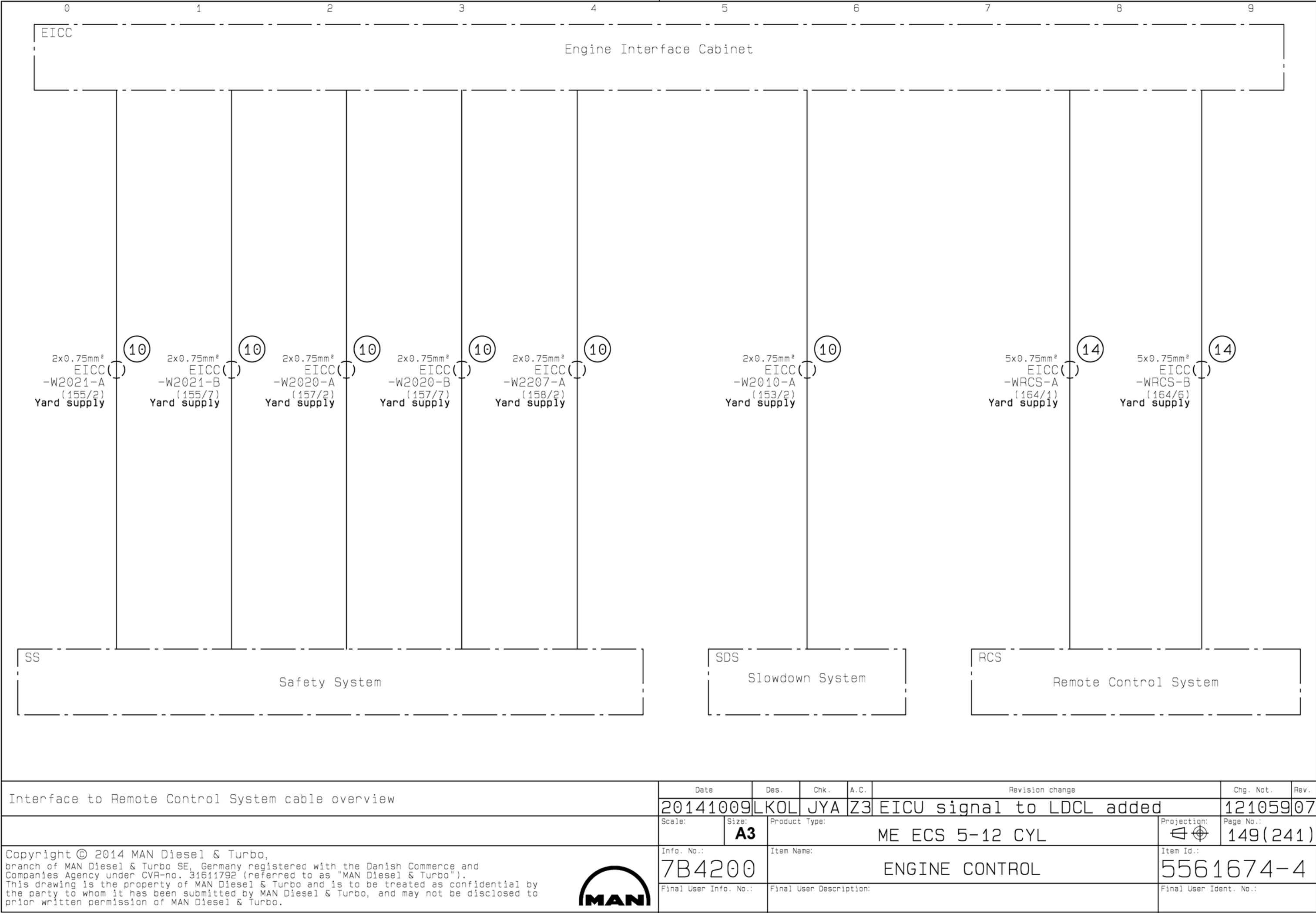
Page 148...170

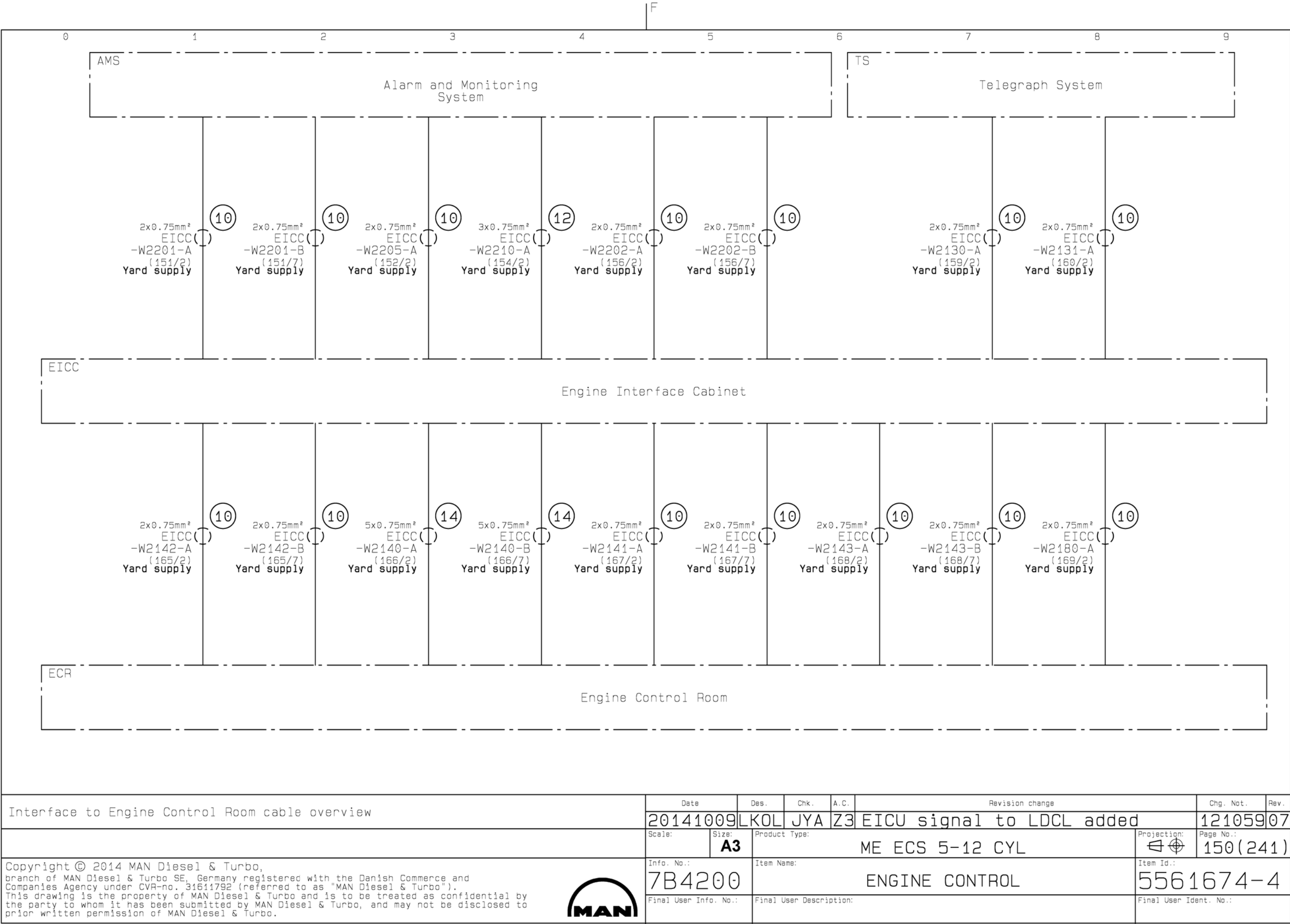
ECS INTERFACE TO ALARM SYSTEM AND ECR	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				147(241)
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	7B4200		ENGINE CONTROL			5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

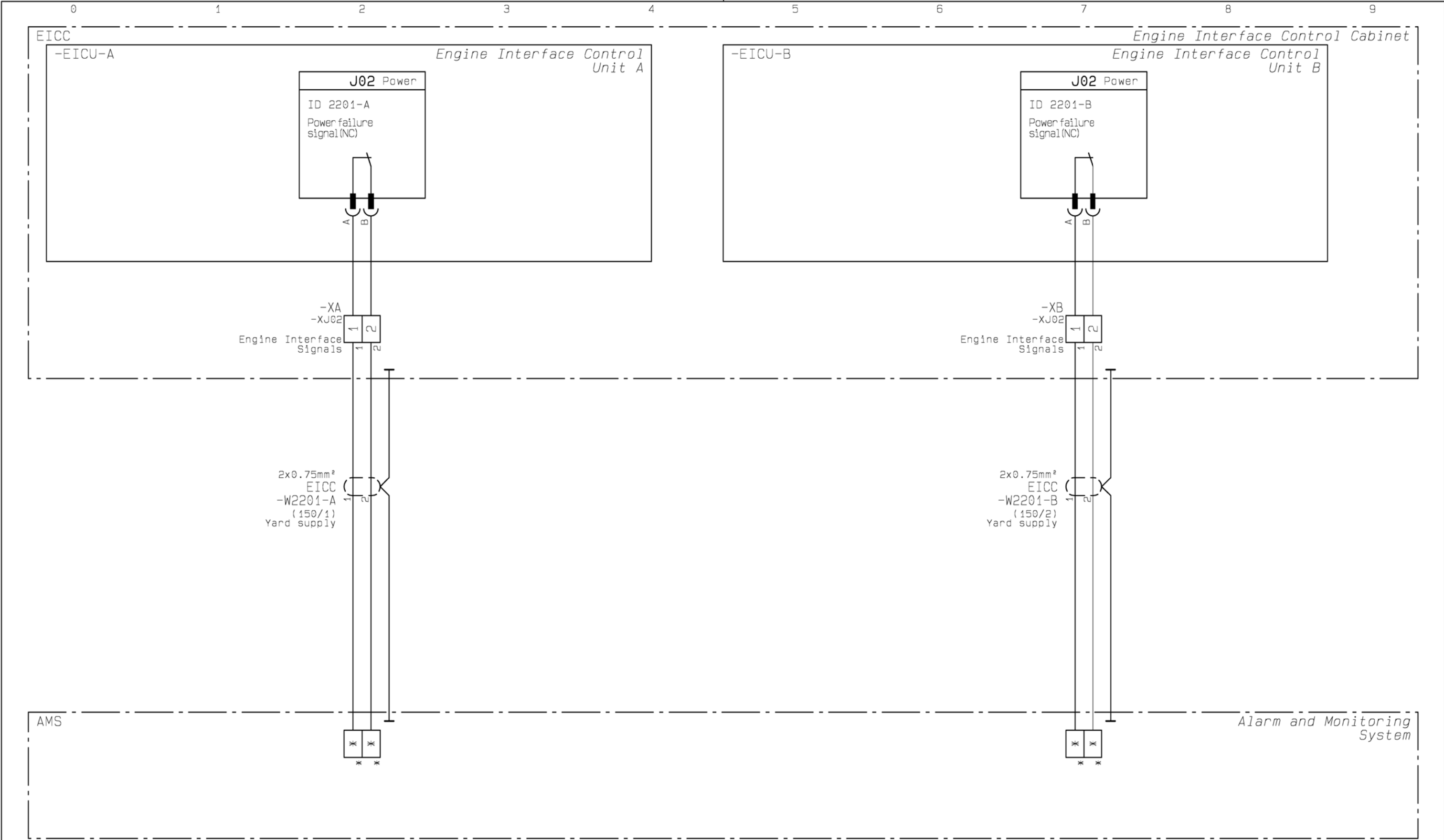


Interface to Alarm and Safety System cable overview	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 148(241)	
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			Final User Info. No.:		Final User Description:			Final User Ident. No.:	







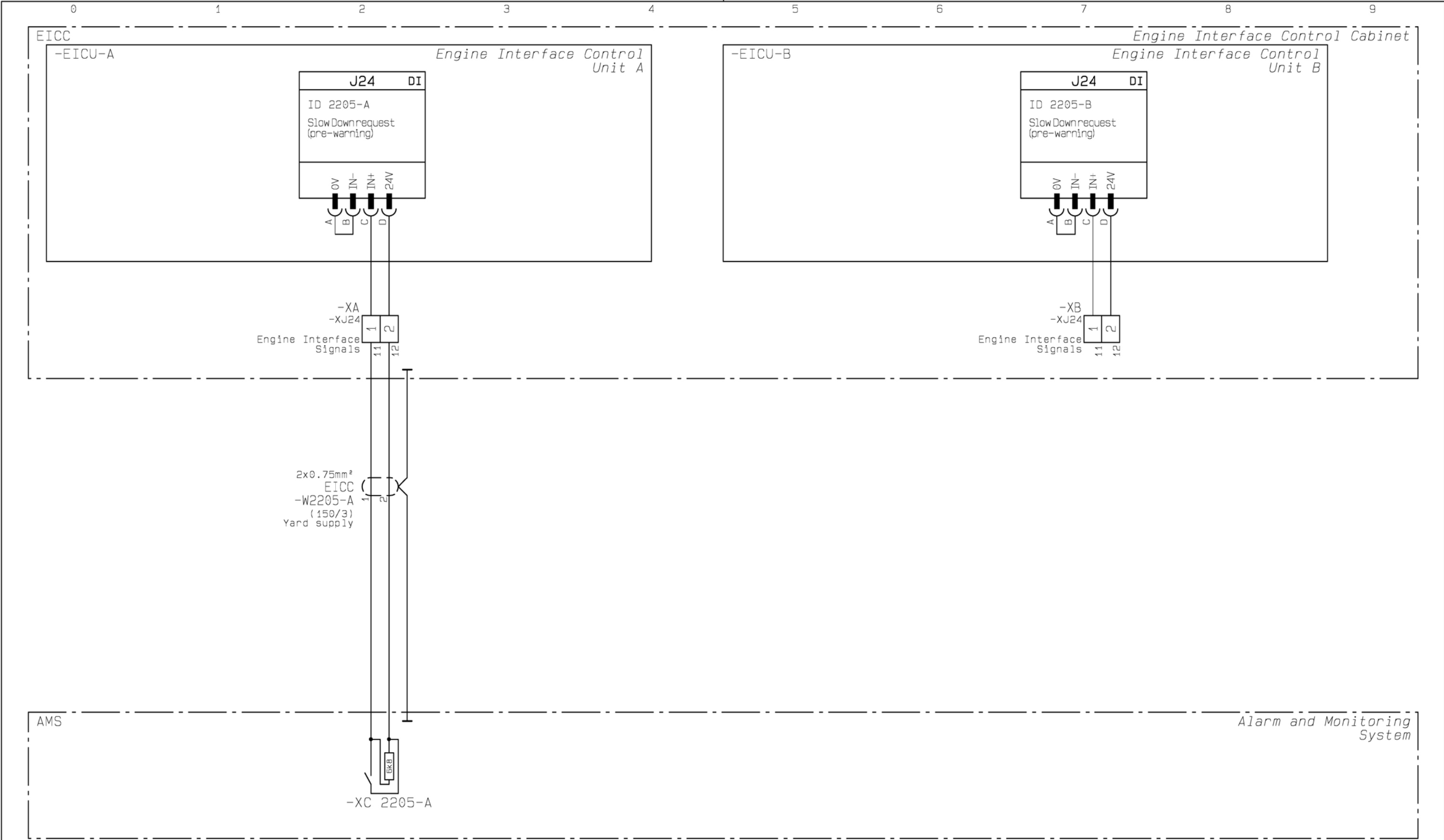


Power failure signals

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale: A3	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: ⊕	Page No.: 151(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Slow down request (pre-warning) signals

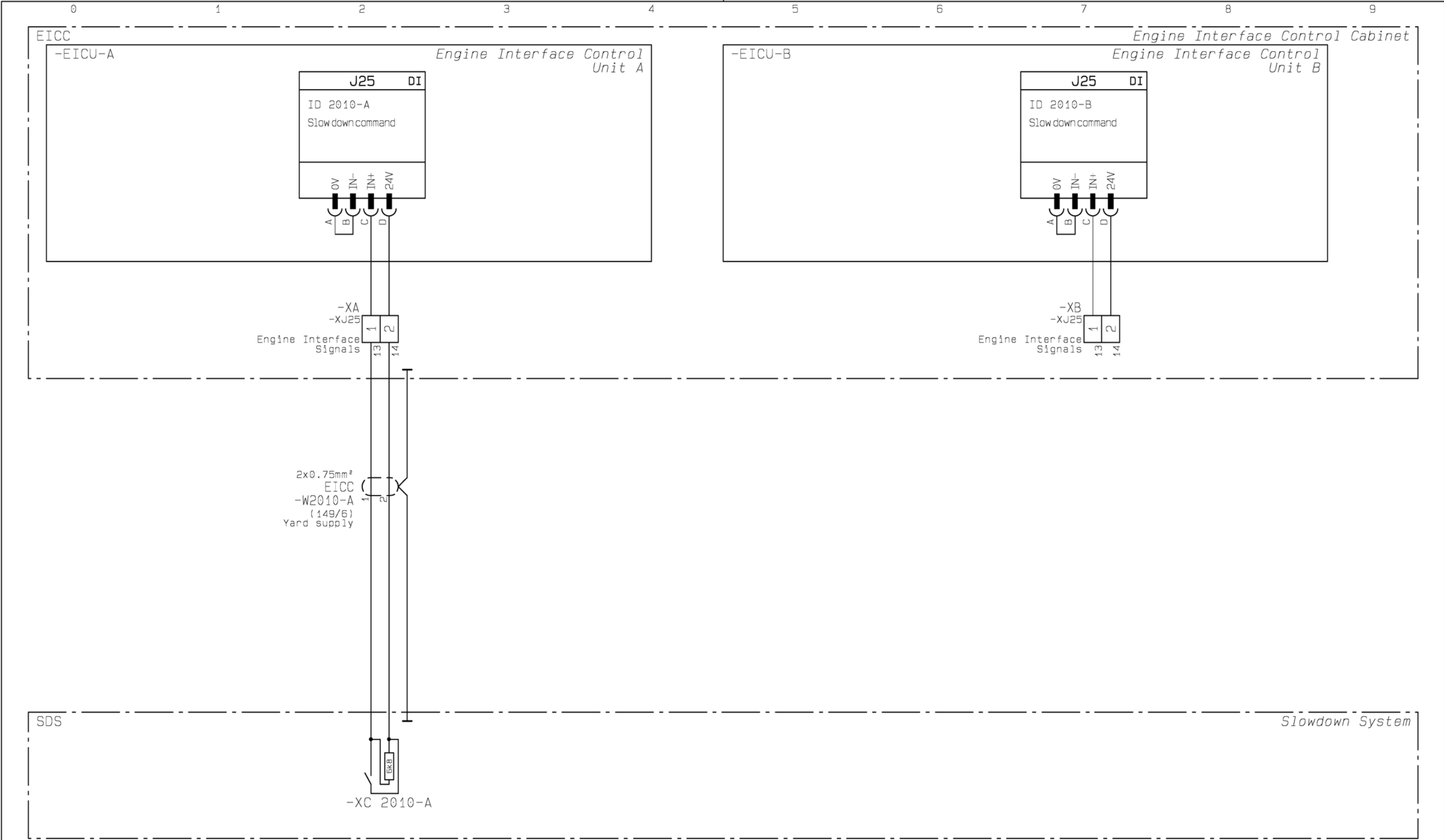
Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07

Scale:	Size: A3	Product Type:	Projection:	Page No.:
		ME ECS 5-12 CYL		152(241)

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Info. No.: 7B4200	Item Name: ENGINE CONTROL	Item Id.: 5561674-4
Final User Info. No.:	Final User Description:	Final User Ident. No.:

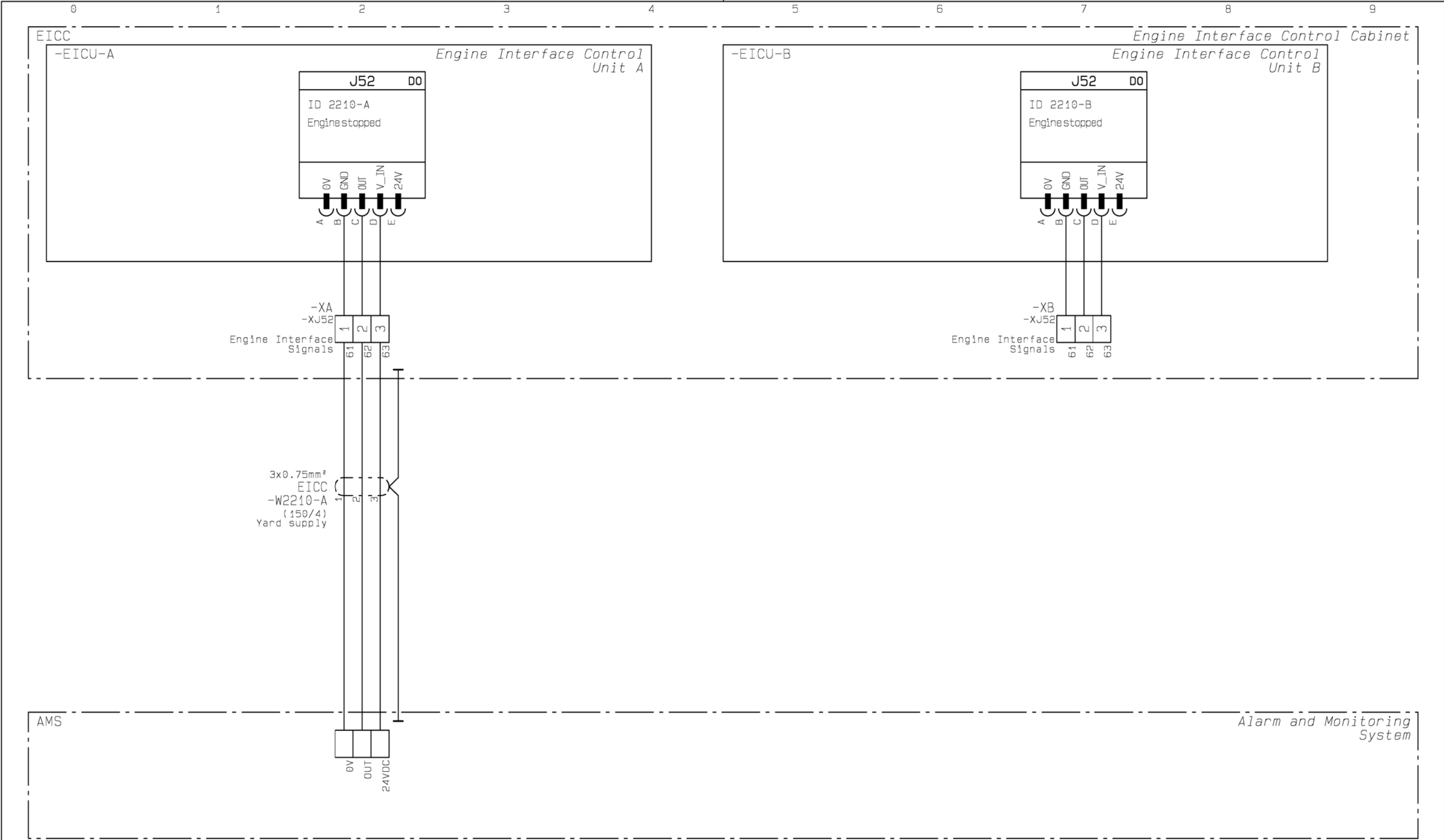


Slow down command signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				153(241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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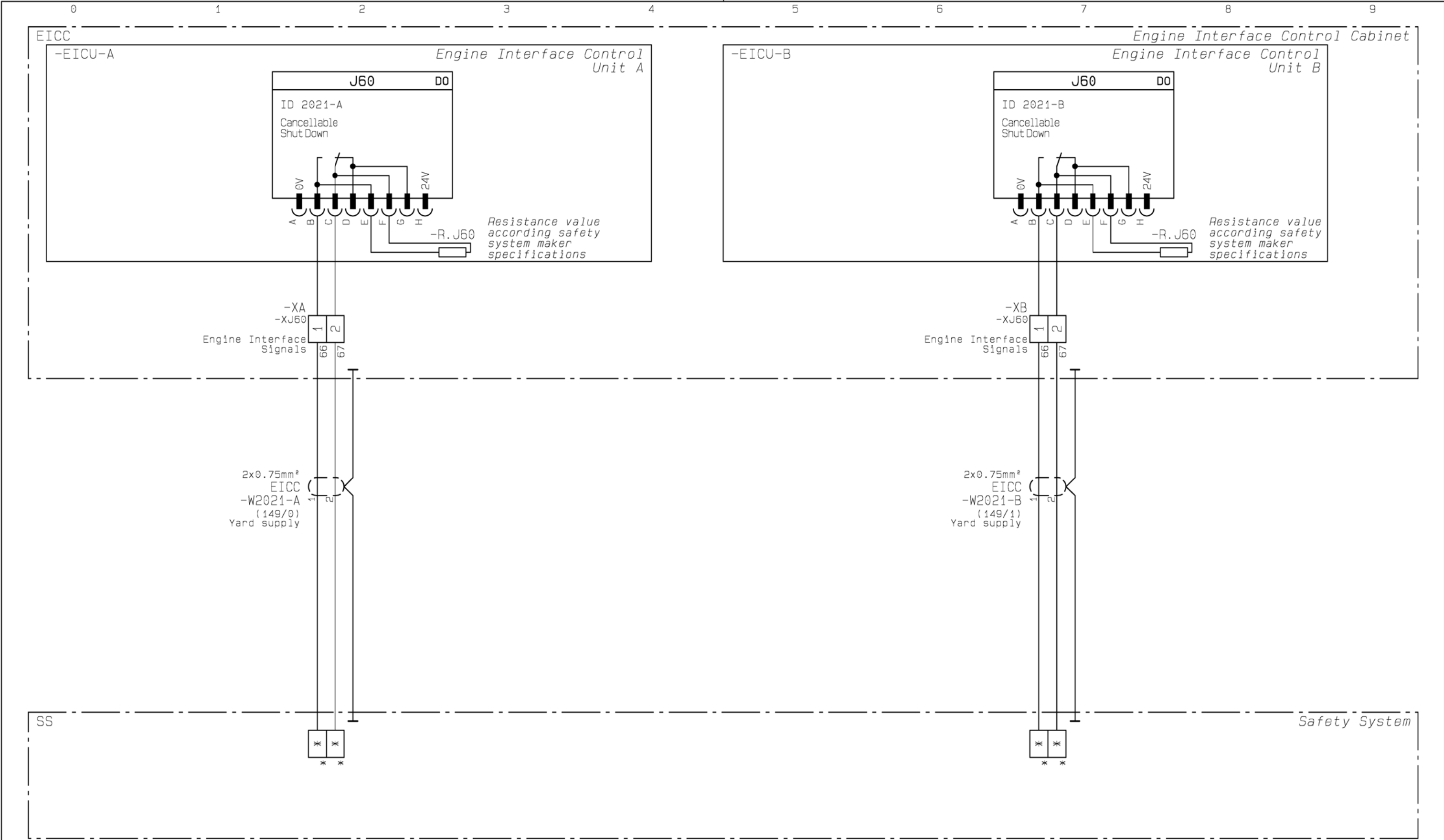
Engine stopped signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				154(241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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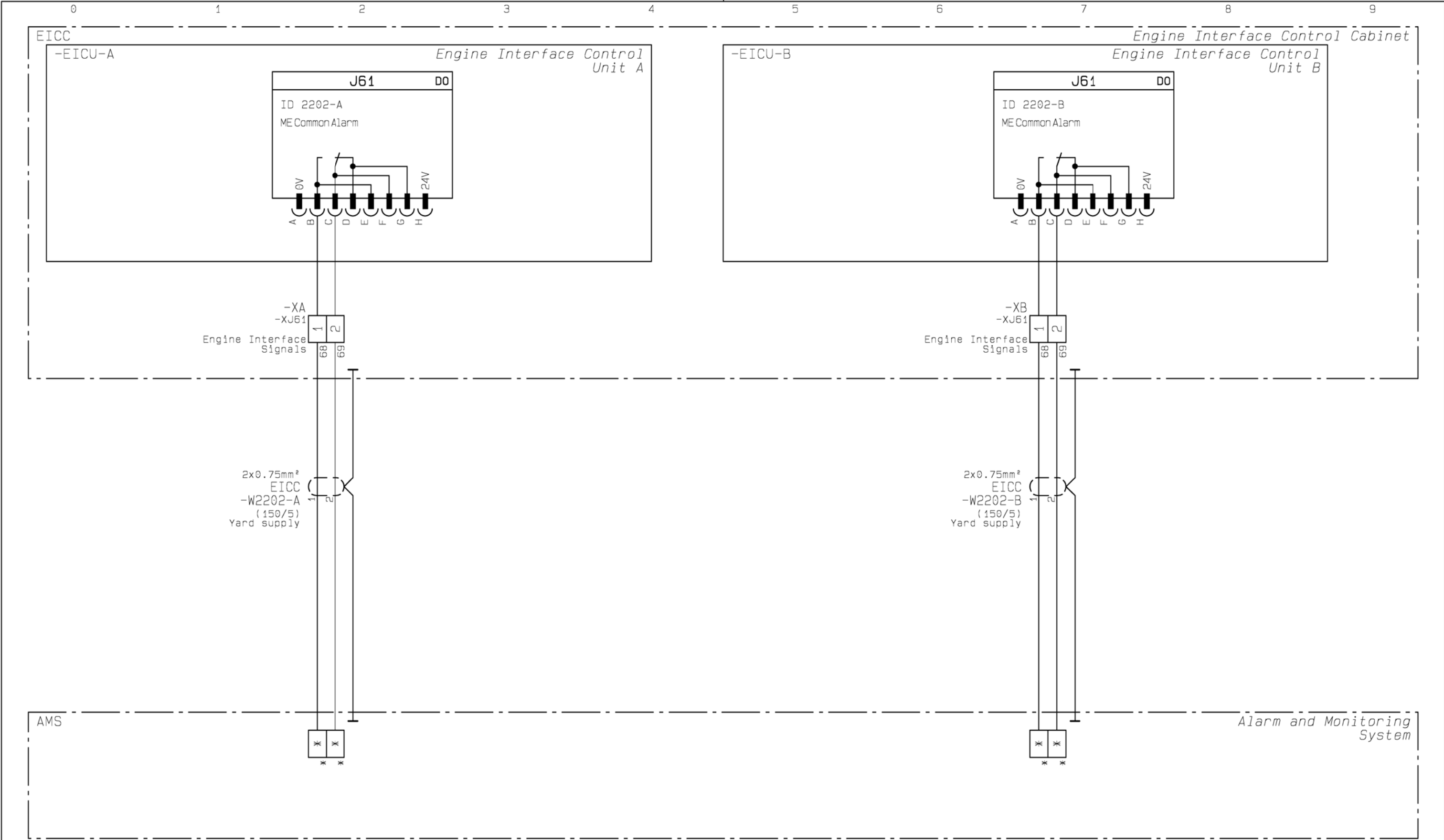


CAD Drawing - do not correct by hand - PCS Drawing



Cancellable shut down signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 155(241)	
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			7B4200					5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	



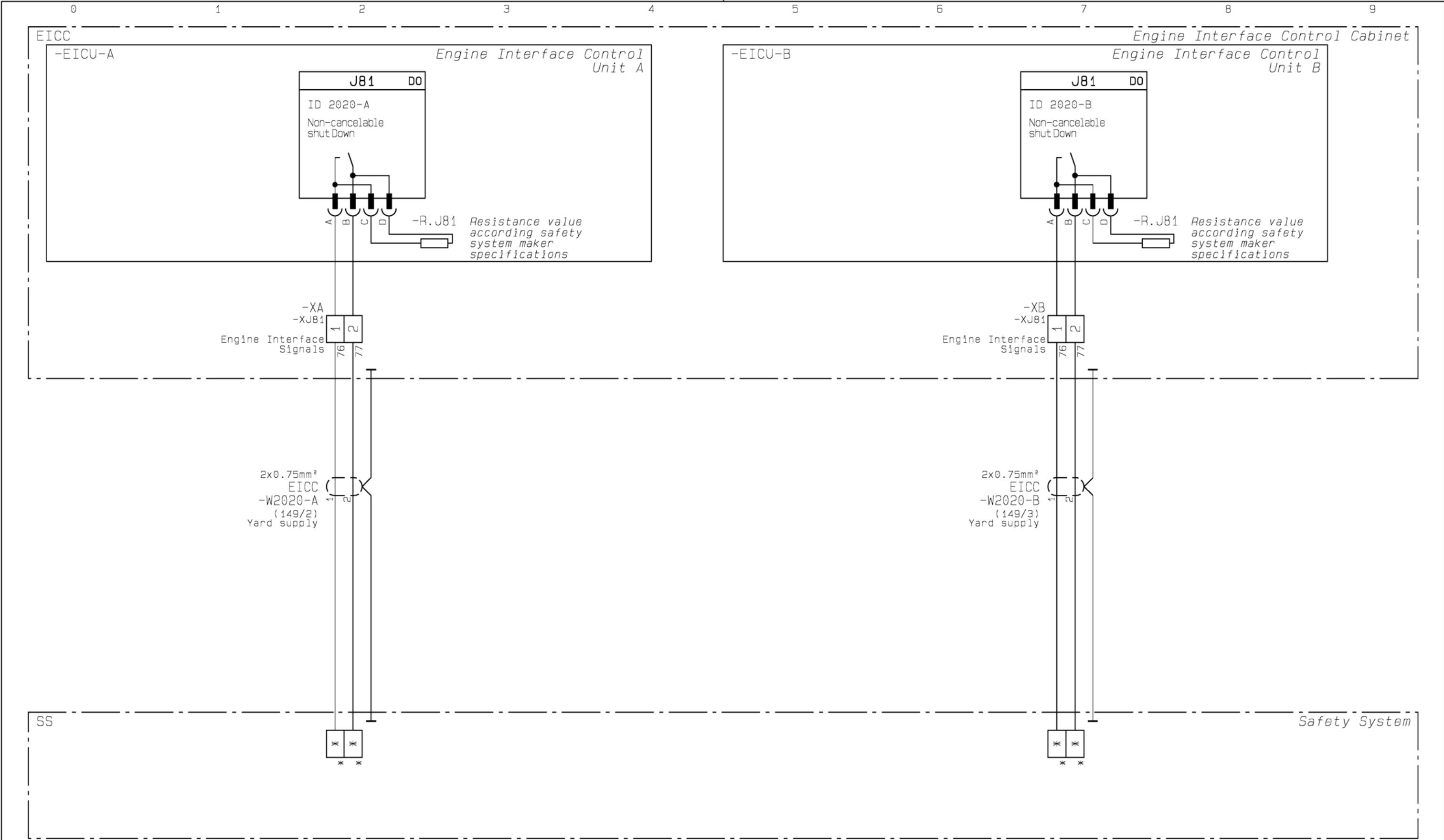


ME common alarm signals

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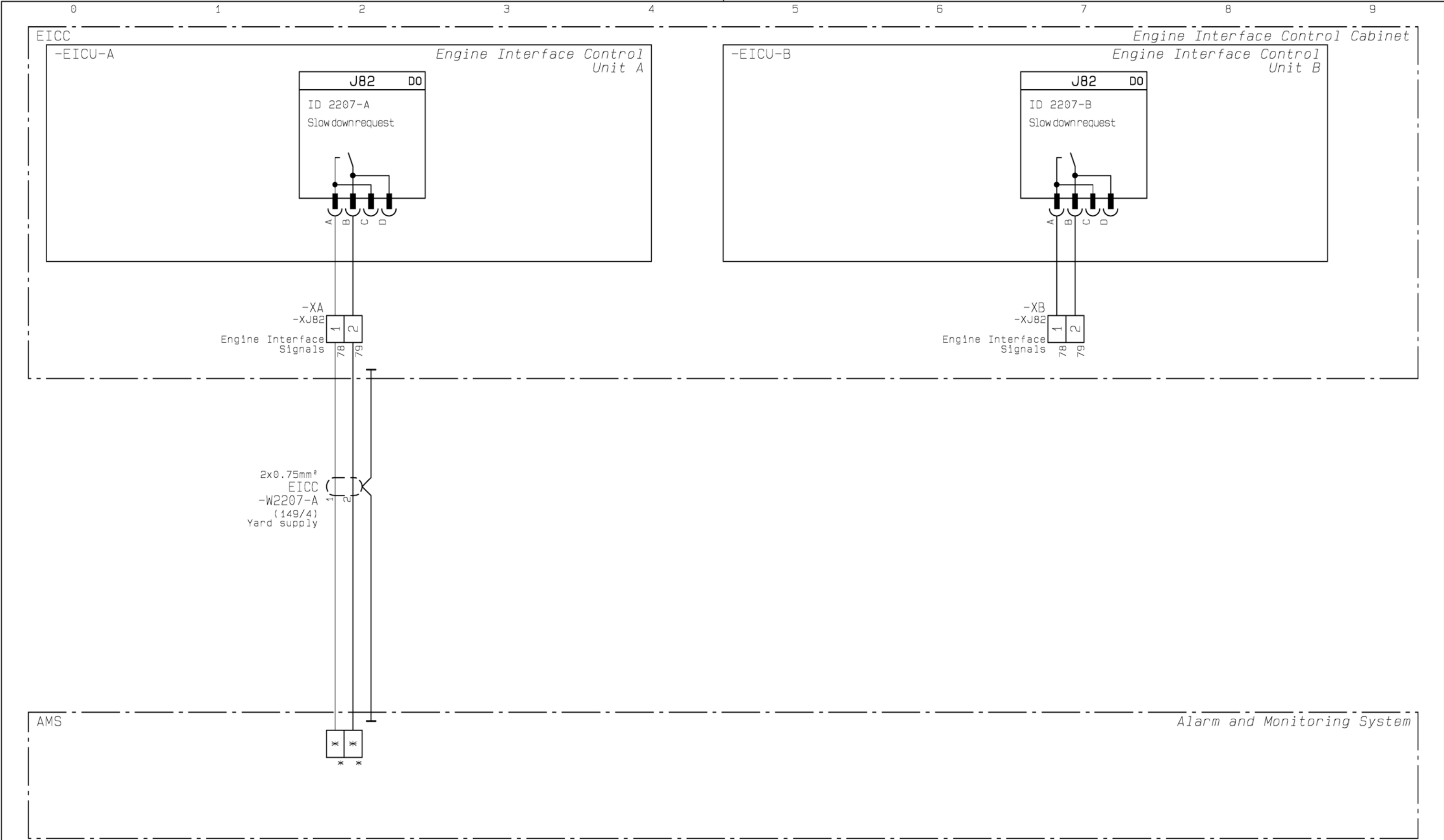


Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 156(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Non-cancelable shut down signals	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 157(241)
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Final User Info. No.:			Final User Description:		Final User Ident. No.:			

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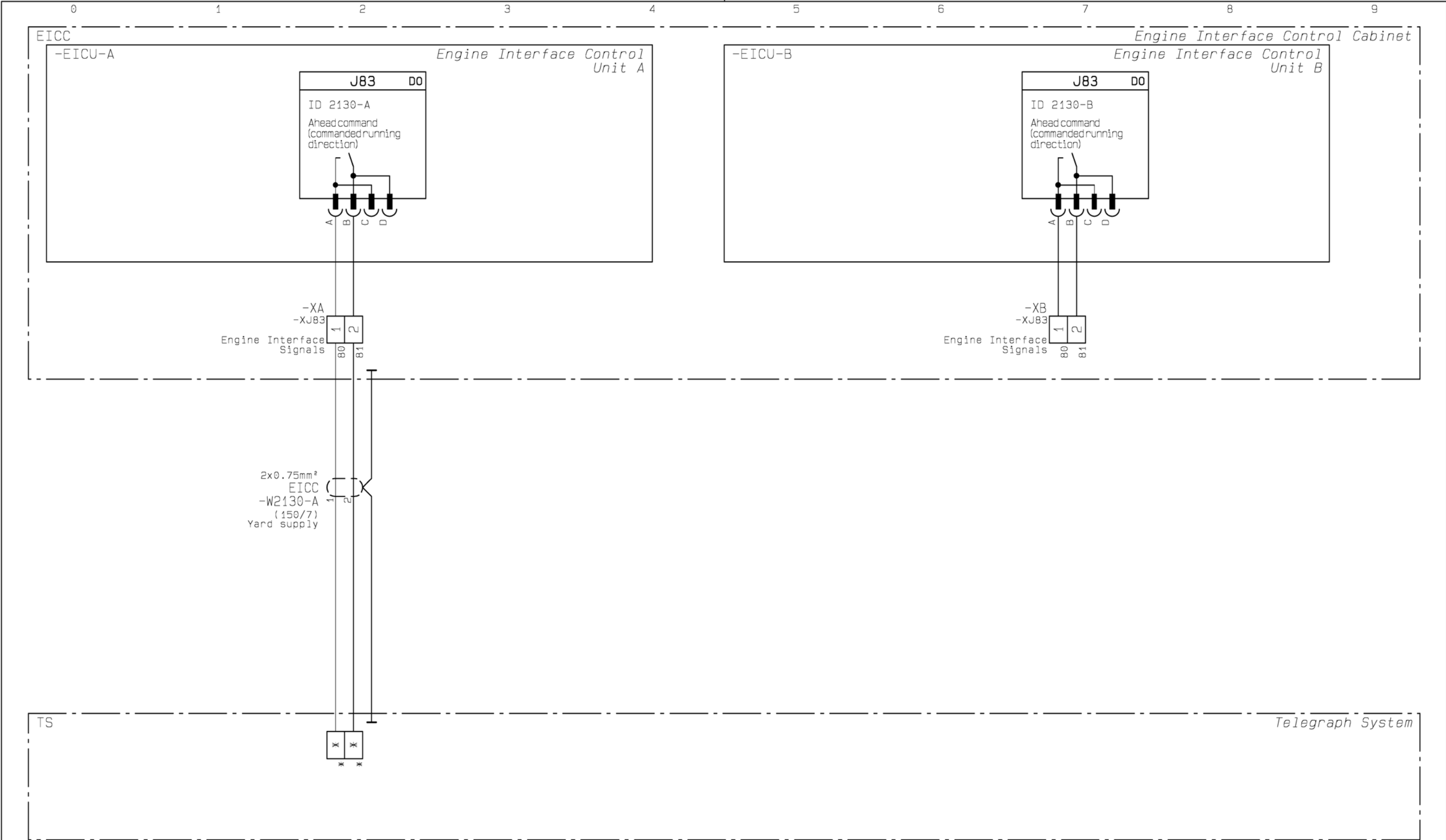


Slow down request signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				158(241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

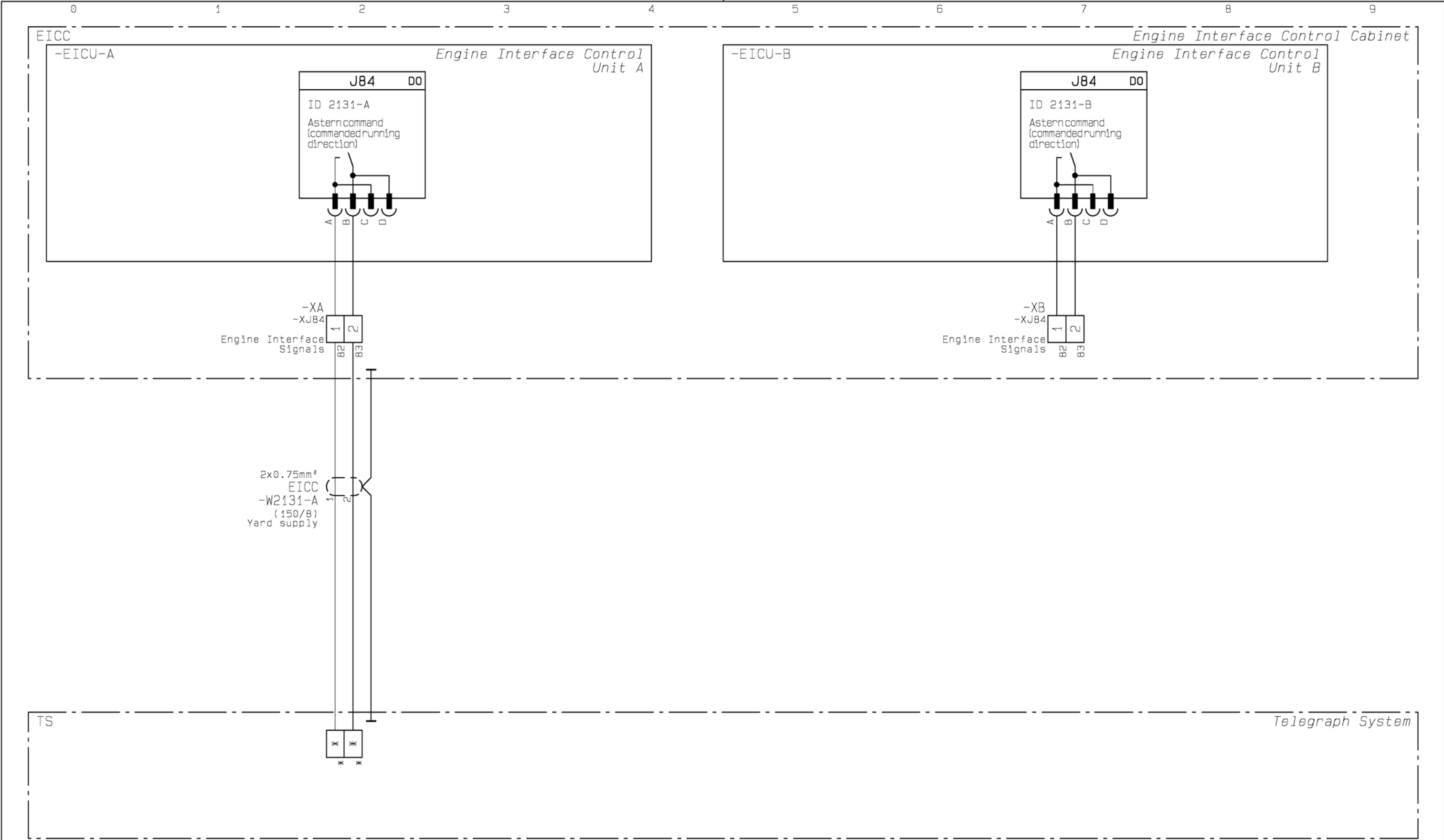
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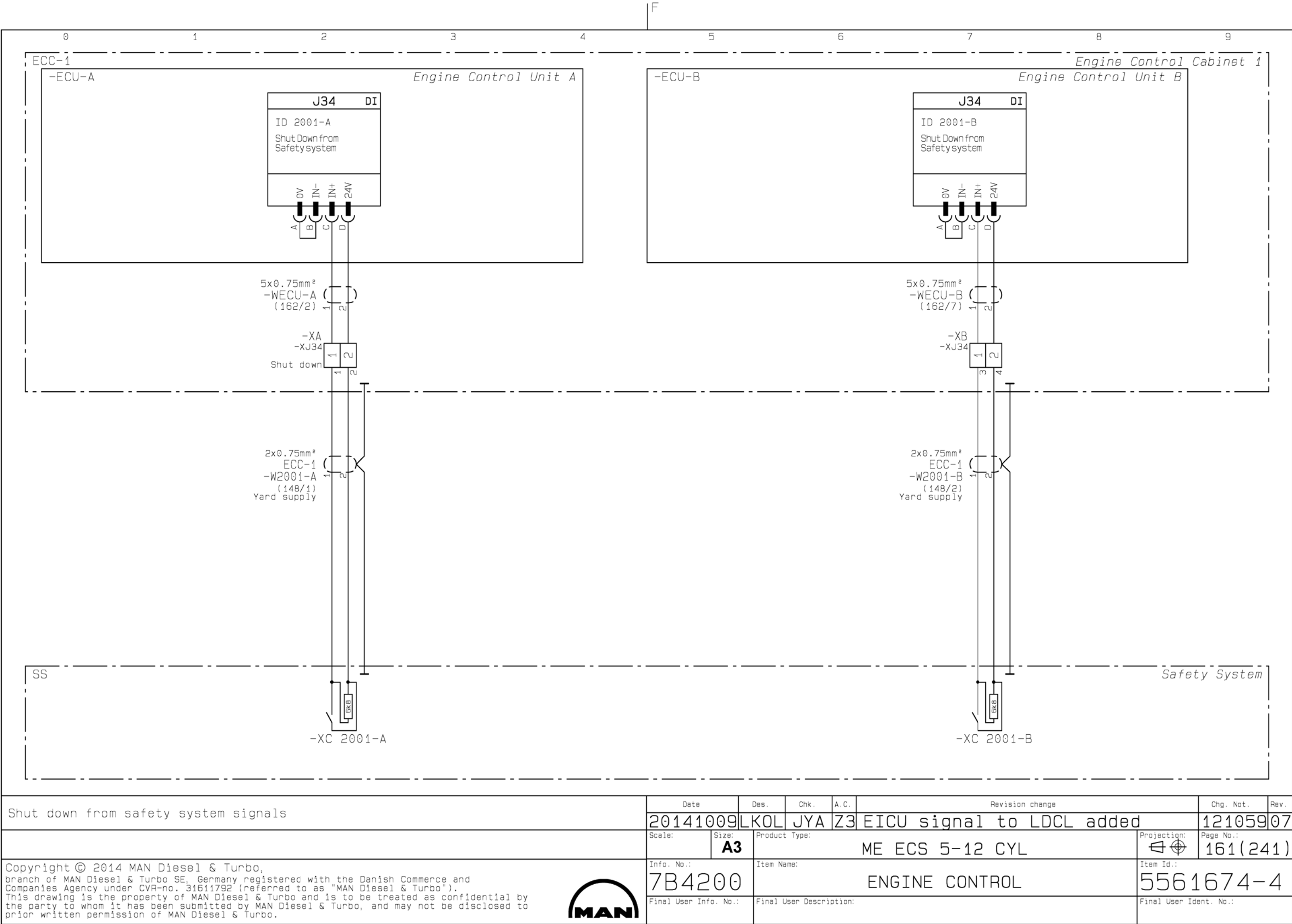
Ahead command signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 159(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

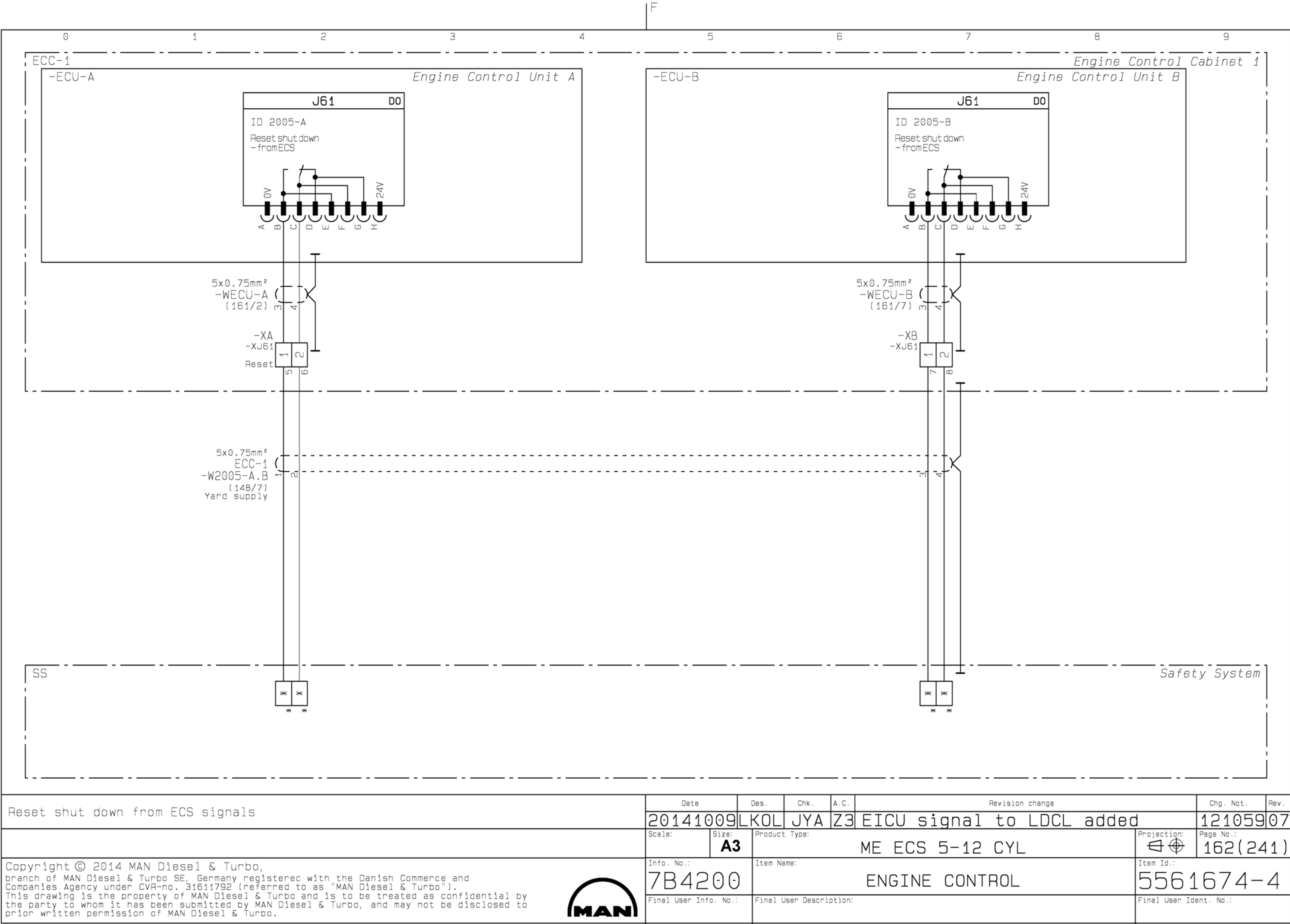


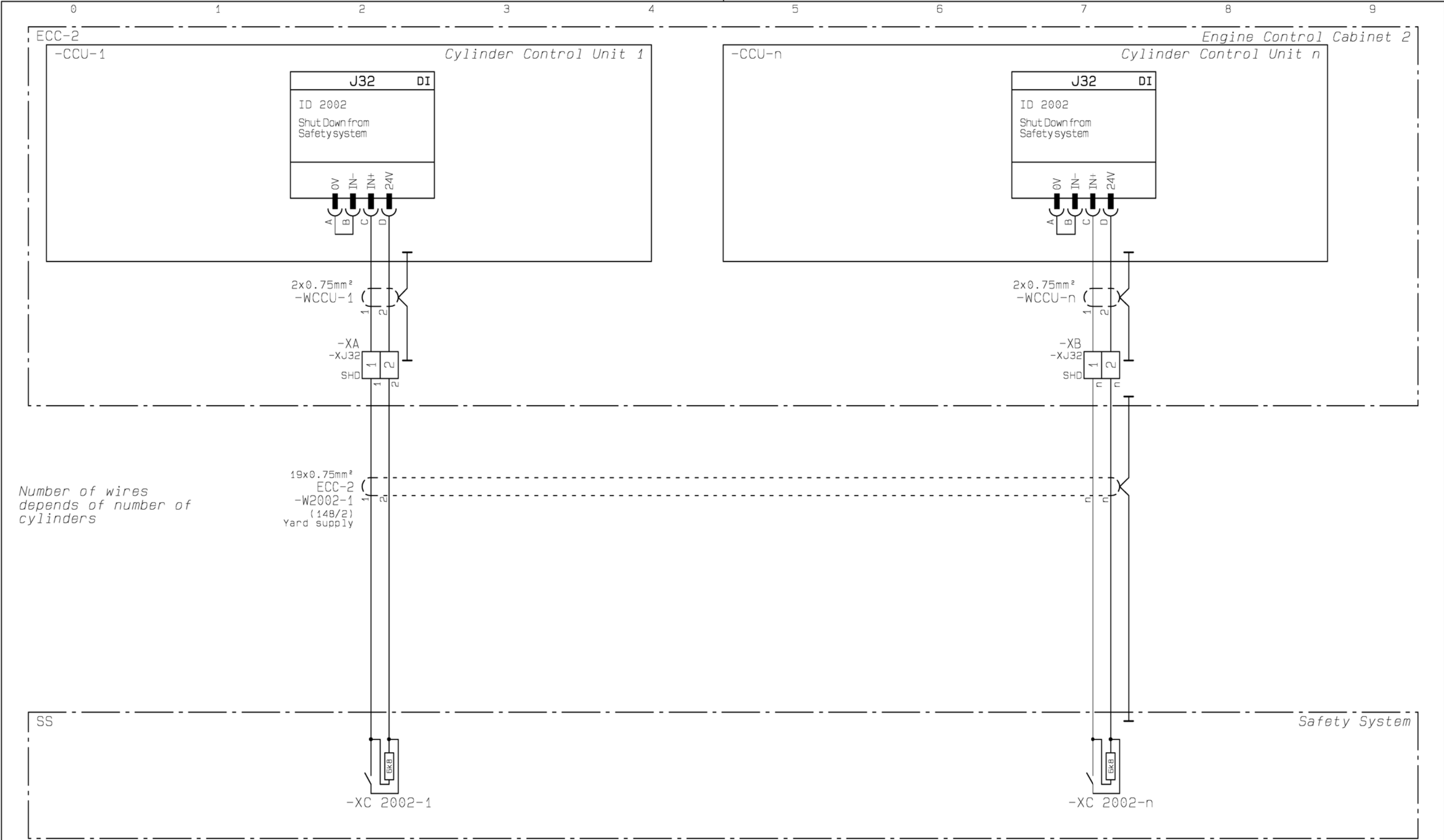


Astern command signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		









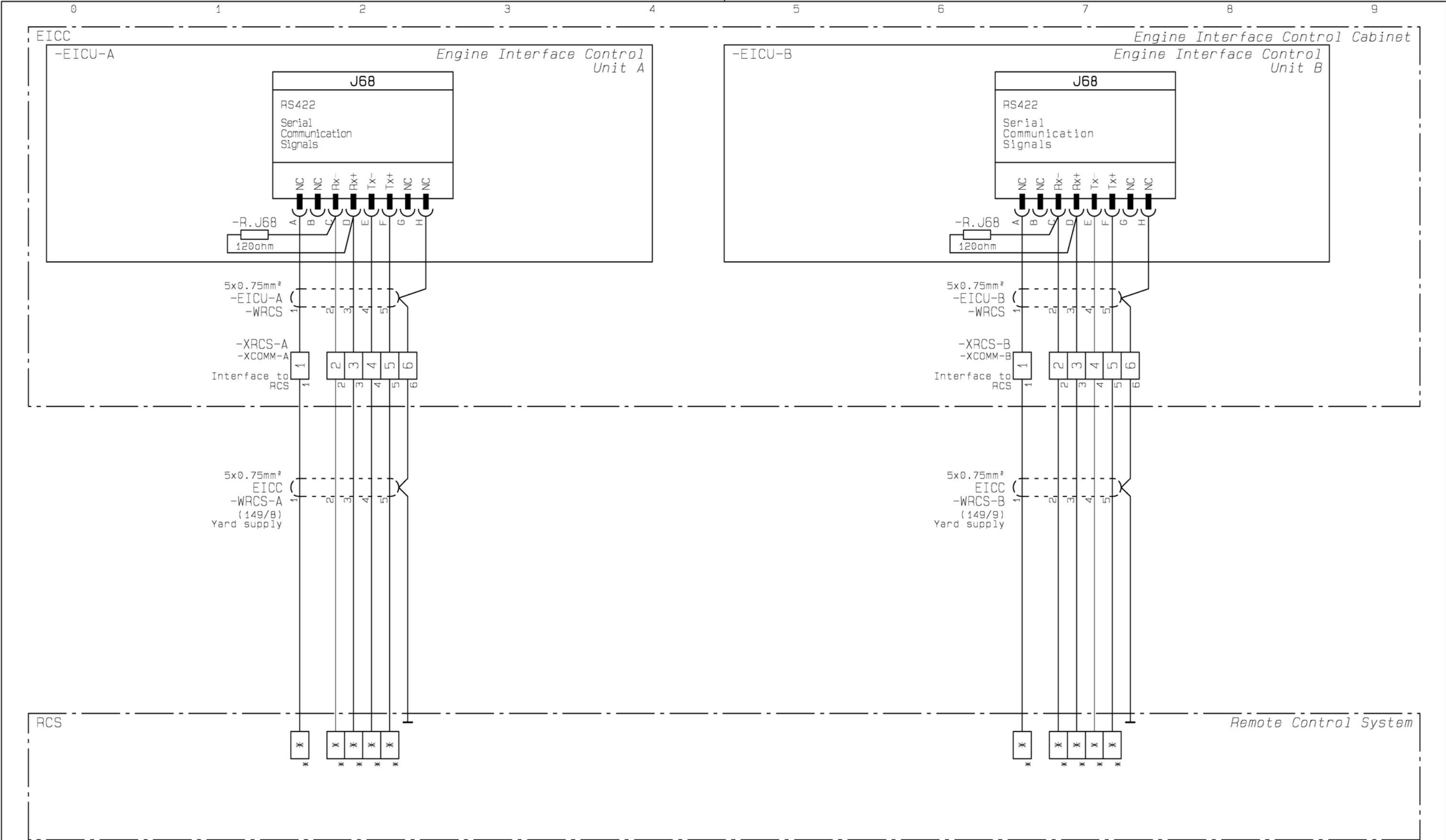
Shut down from safety system to cylinder control signals

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
Scale:	Size:	Product Type:			Projection:	Page No.:
	A3	ME ECS 5-12 CYL				163(241)
Info. No.:		Item Name:			Item Id.:	
7B4200		ENGINE CONTROL			5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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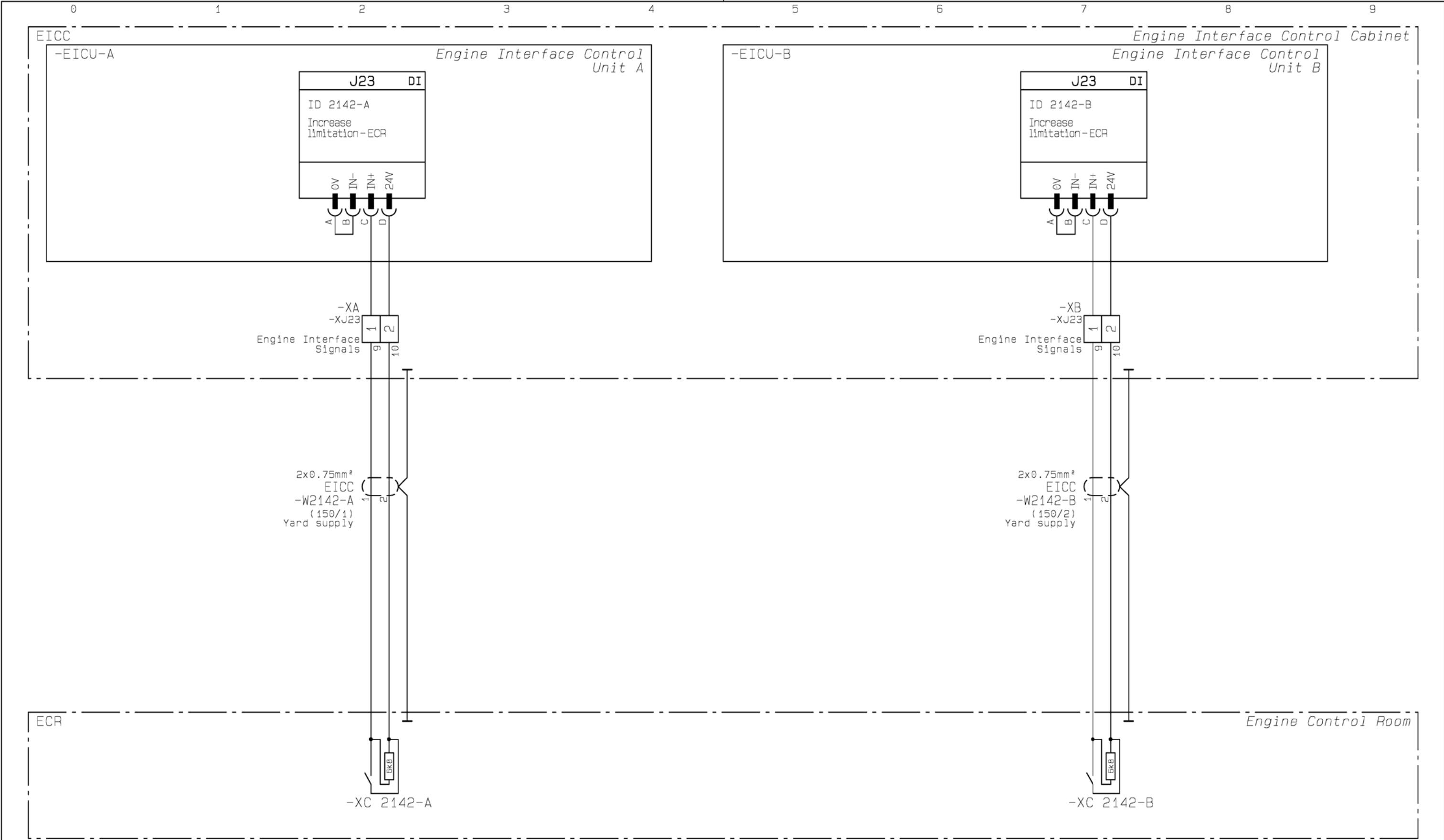


CAD Drawing - do not correct by hand - PCS Drawing



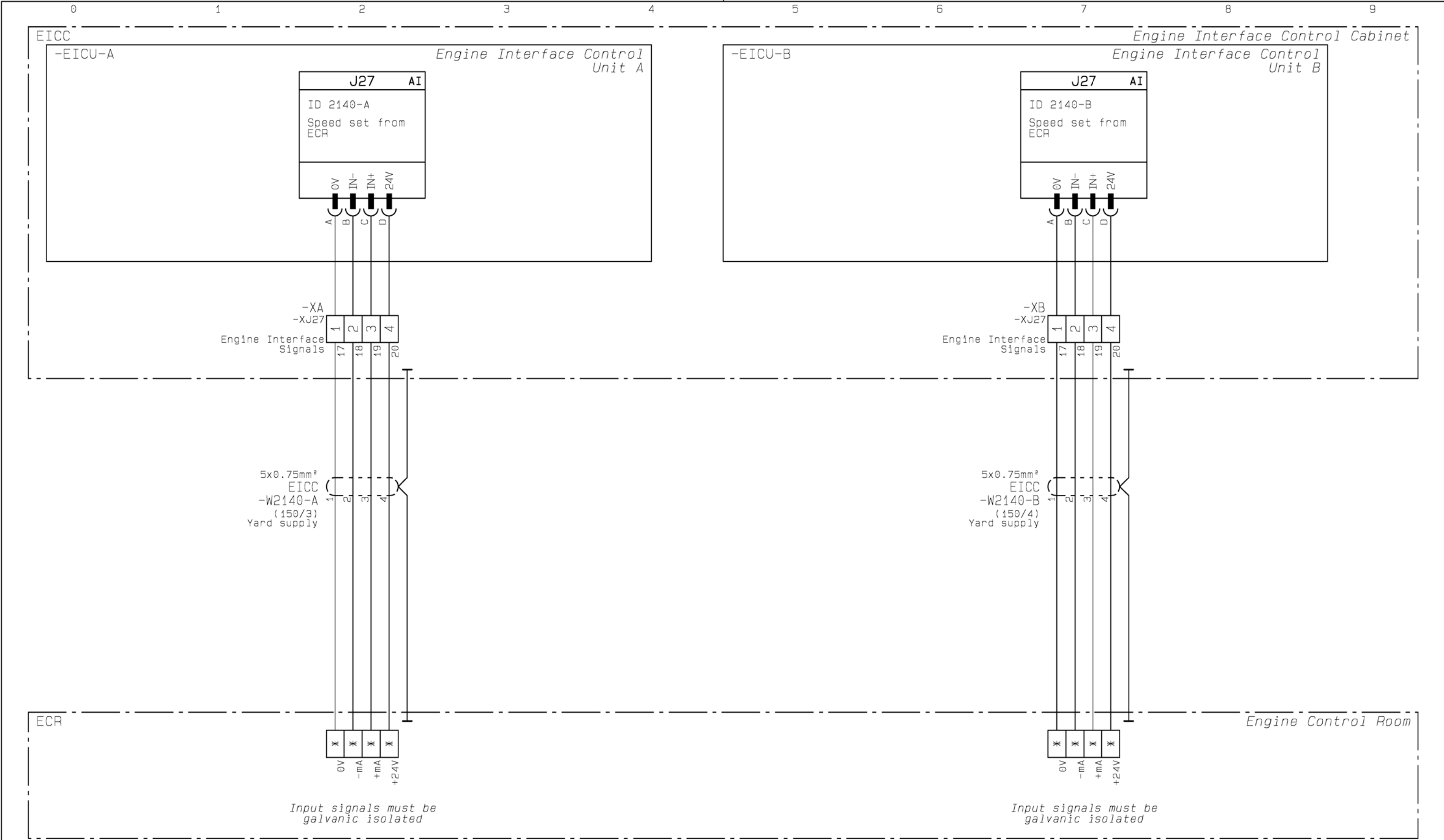
Serial communication signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 164(241)	
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			7B4200		ENGINE CONTROL		5561674-4		
			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

CAD Drawing - do not correct by hand - PCS Drawing



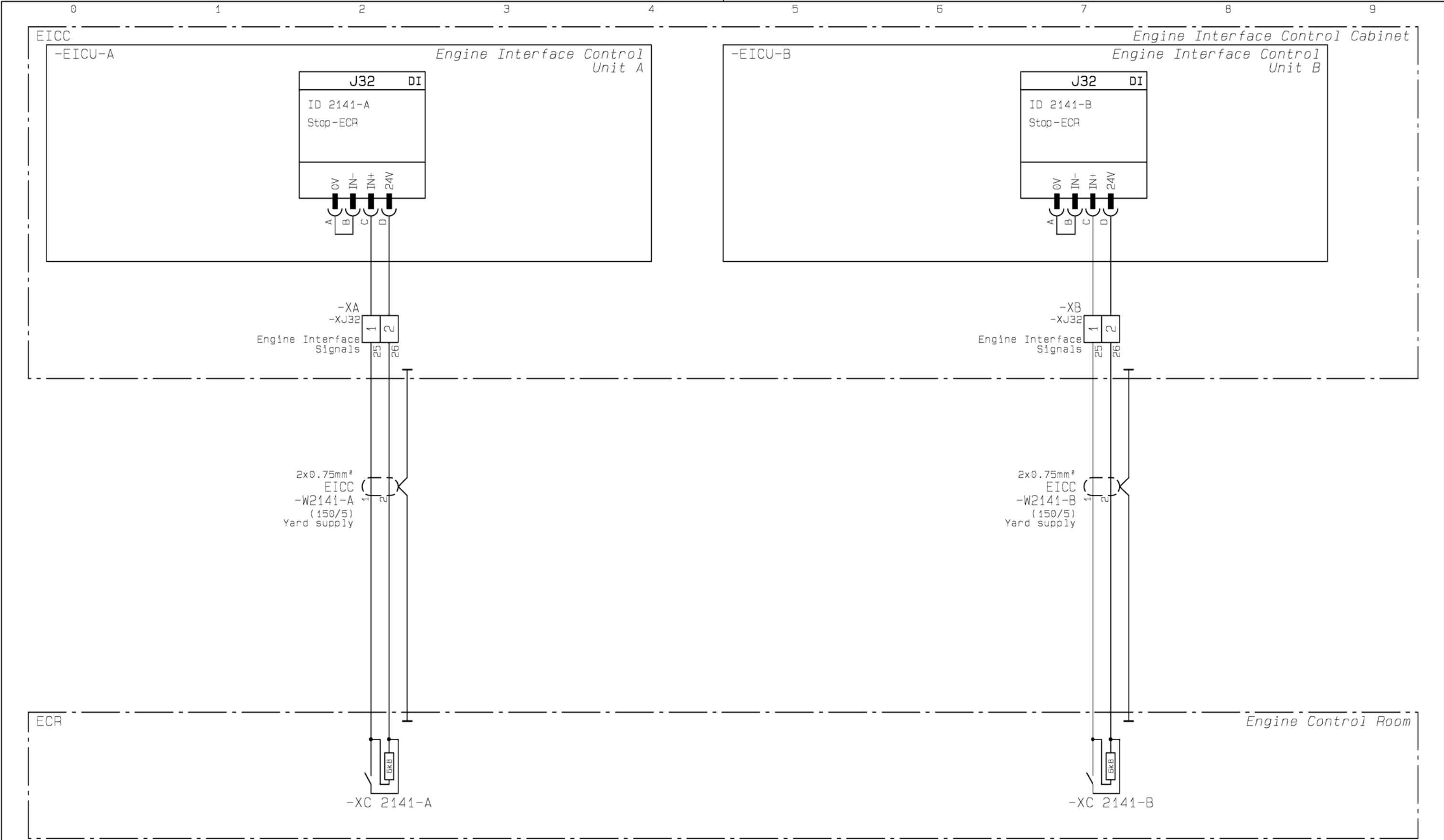
Increase limitation signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 165(241)	
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			7B4200		ENGINE CONTROL		5561674-4		
			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

CAD Drawing - do not correct by hand - PCS Drawing



Speed set from ECR signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 166(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





Stop from ECR signals

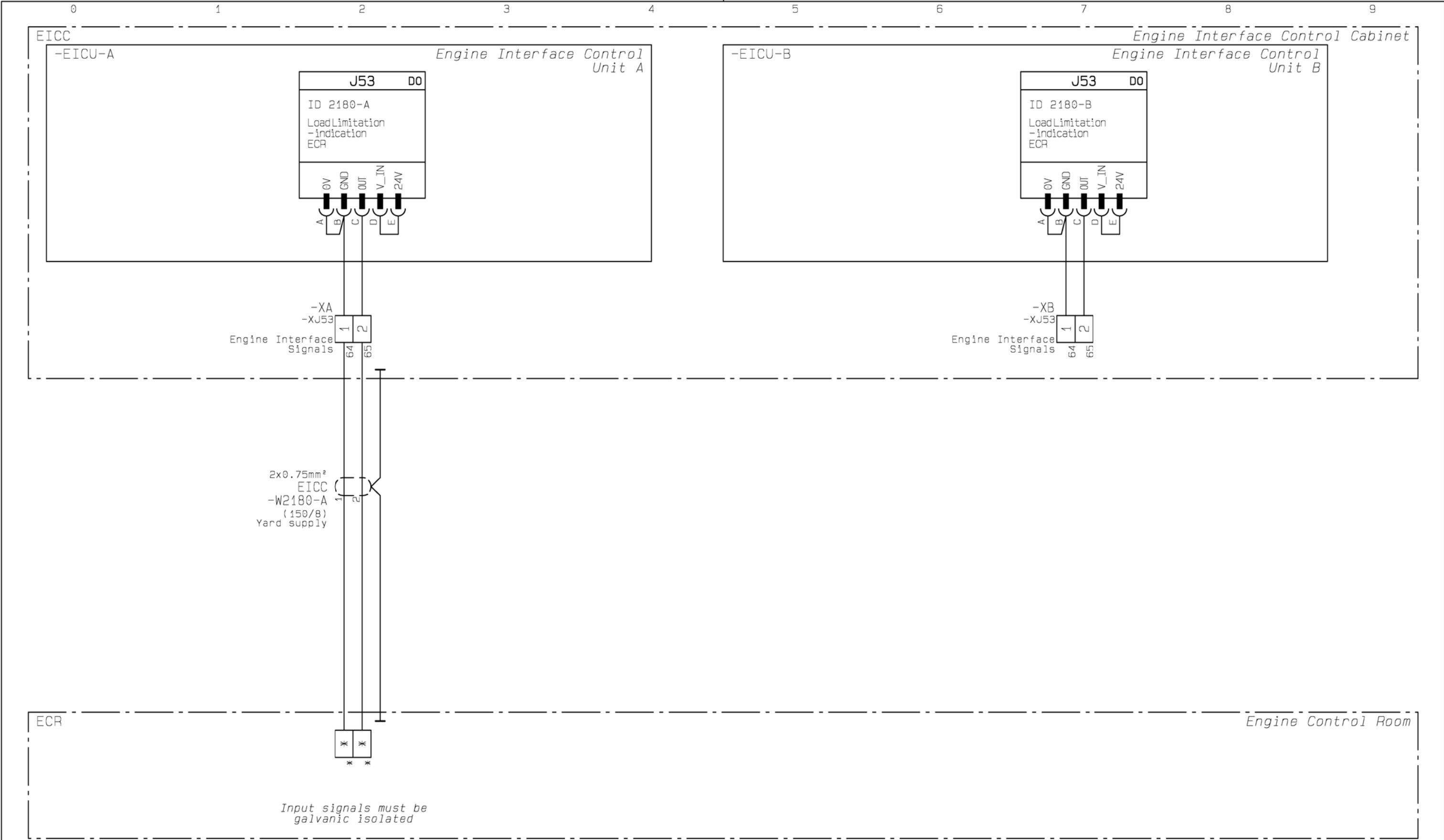
Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	ME ECS 5-12 CYL		167(241)

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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.:



Load limitation indication for ECR signals

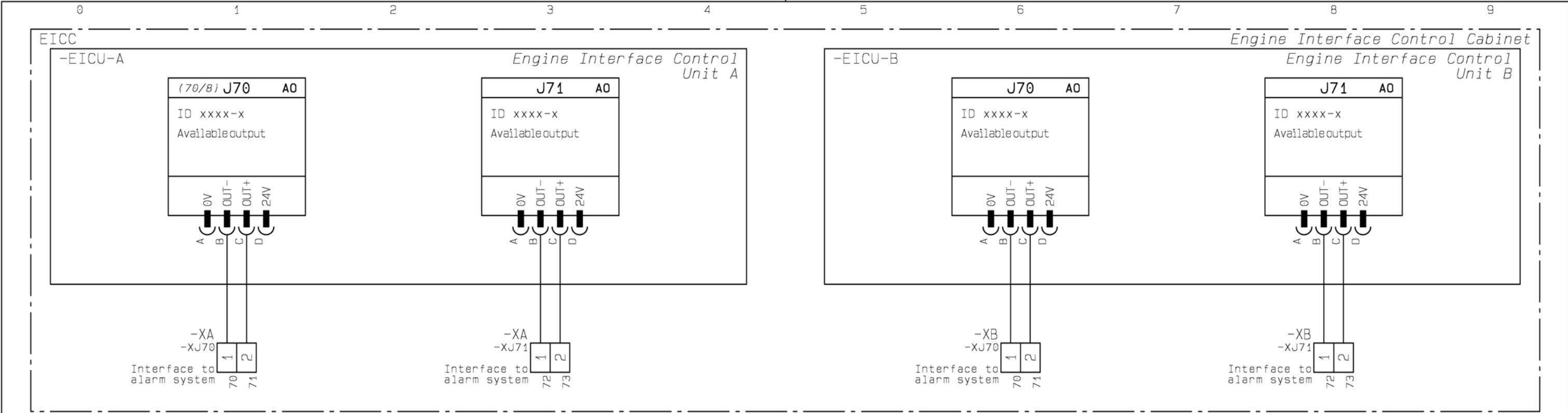
Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07

Scale:	Size:	Product Type:	Projection:	Page No.:
	A3	ME ECS 5-12 CYL		169(241)

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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.:



Available output signals are galvanic separated,
4-20mA active signals

When LDCL/LDHT is installed EICU-A J70 is allocated
for 2405-0 Engine load.

Available output signals: J70 & J71	
2183-0	Engine speed
2184-0	Fuel index (calculated governor)
2401-0	Speed set point
1250-0	Hydraulic pressure
2410-0	Scavenge air pressure
2411-0	Start air pressure
2402-0	Raw unsigned speed
2403-0	Index Margin
2404-0	Actual pitch
2405-0	Engine load
2409-0	Exhaust by-pass position
2406	Speed set point for PMS

Available output signals	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		

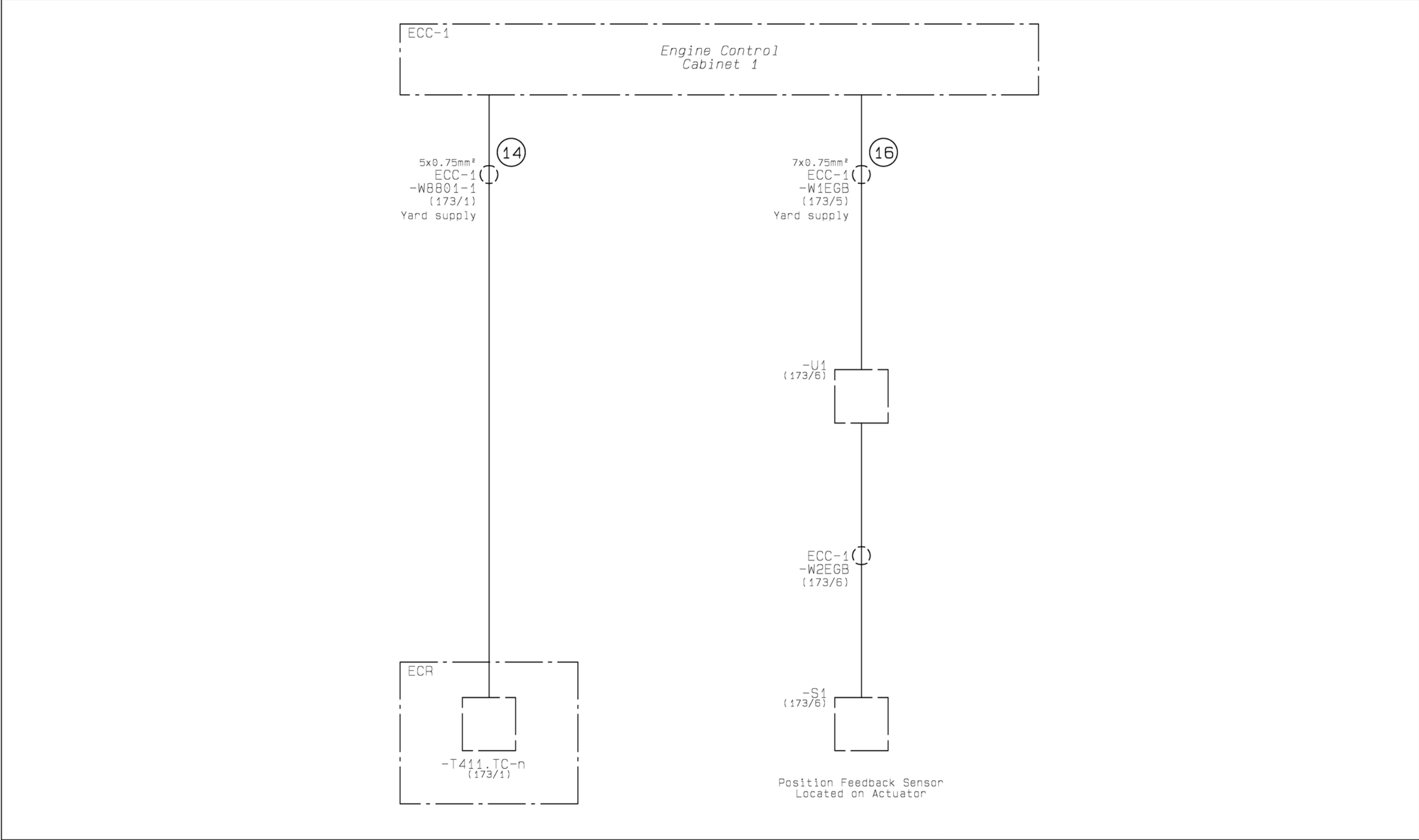


12 OPTIONAL SYSTEMS

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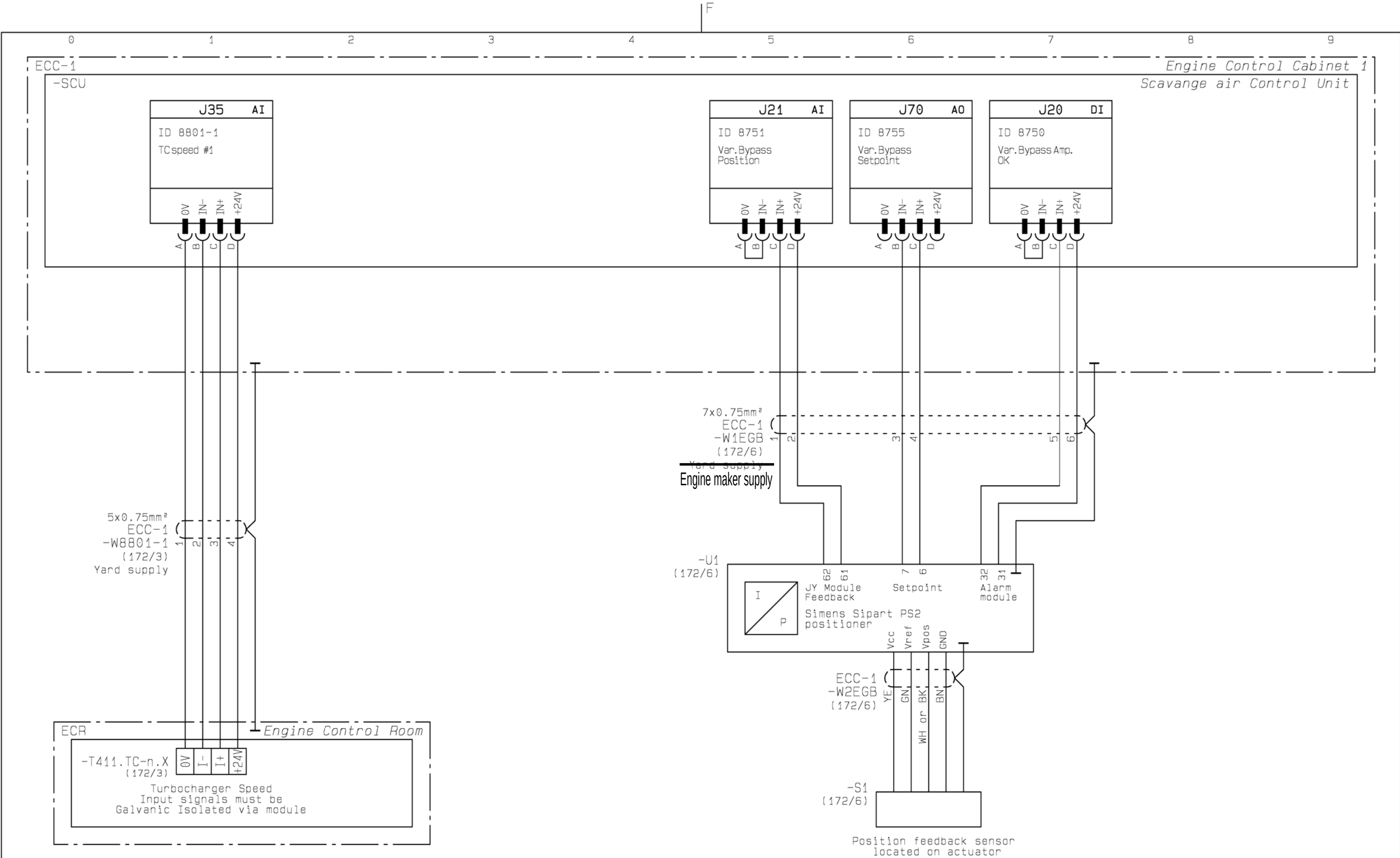
OPTIONAL SYSTEMS	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 171(241)	
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	7B4200		ENGINE CONTROL				5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





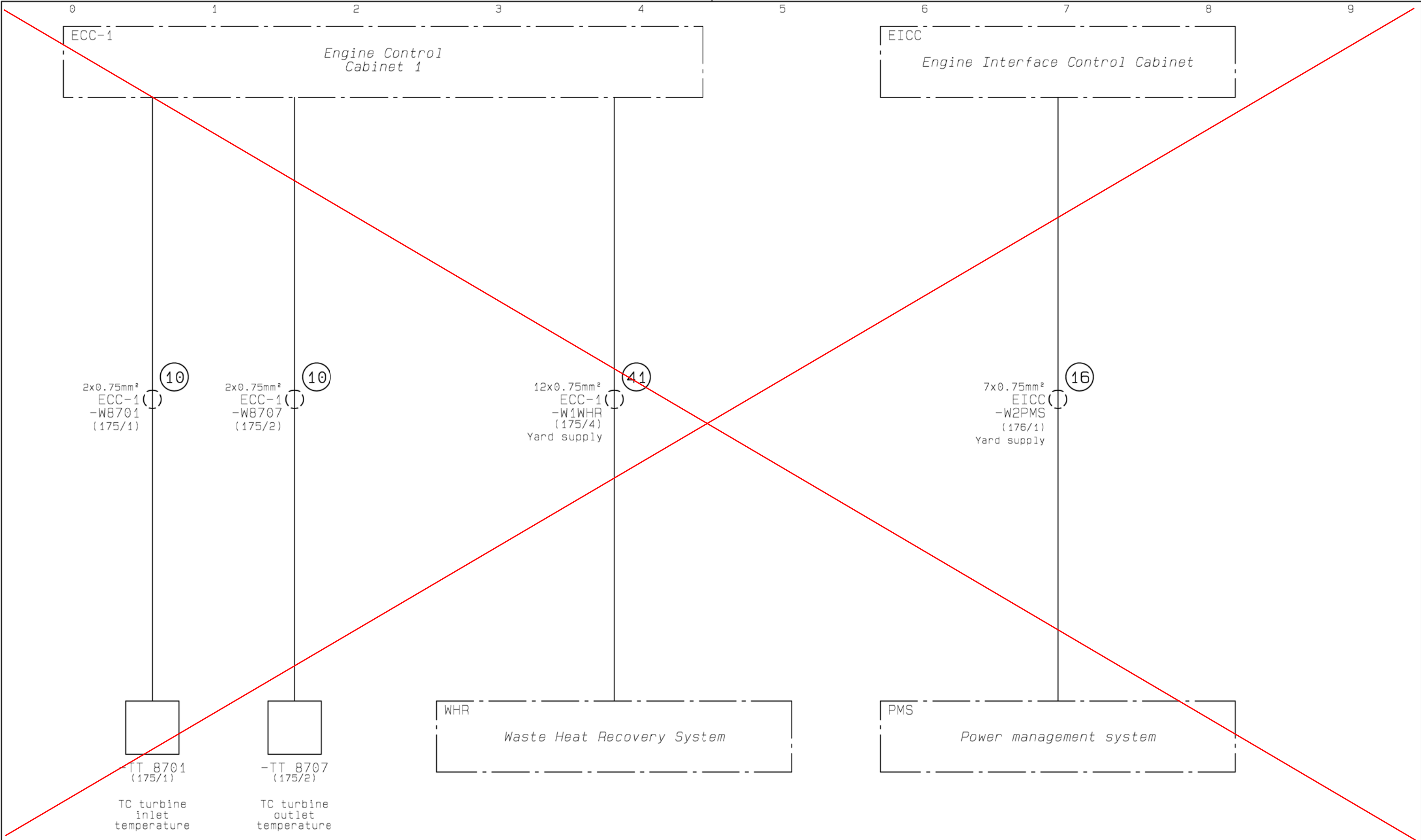
Interface to Exhaust Gas By-pass Cable Overview	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:				Final User Ident. No.:	

CAD Drawing - do not correct by hand - PCS Drawing



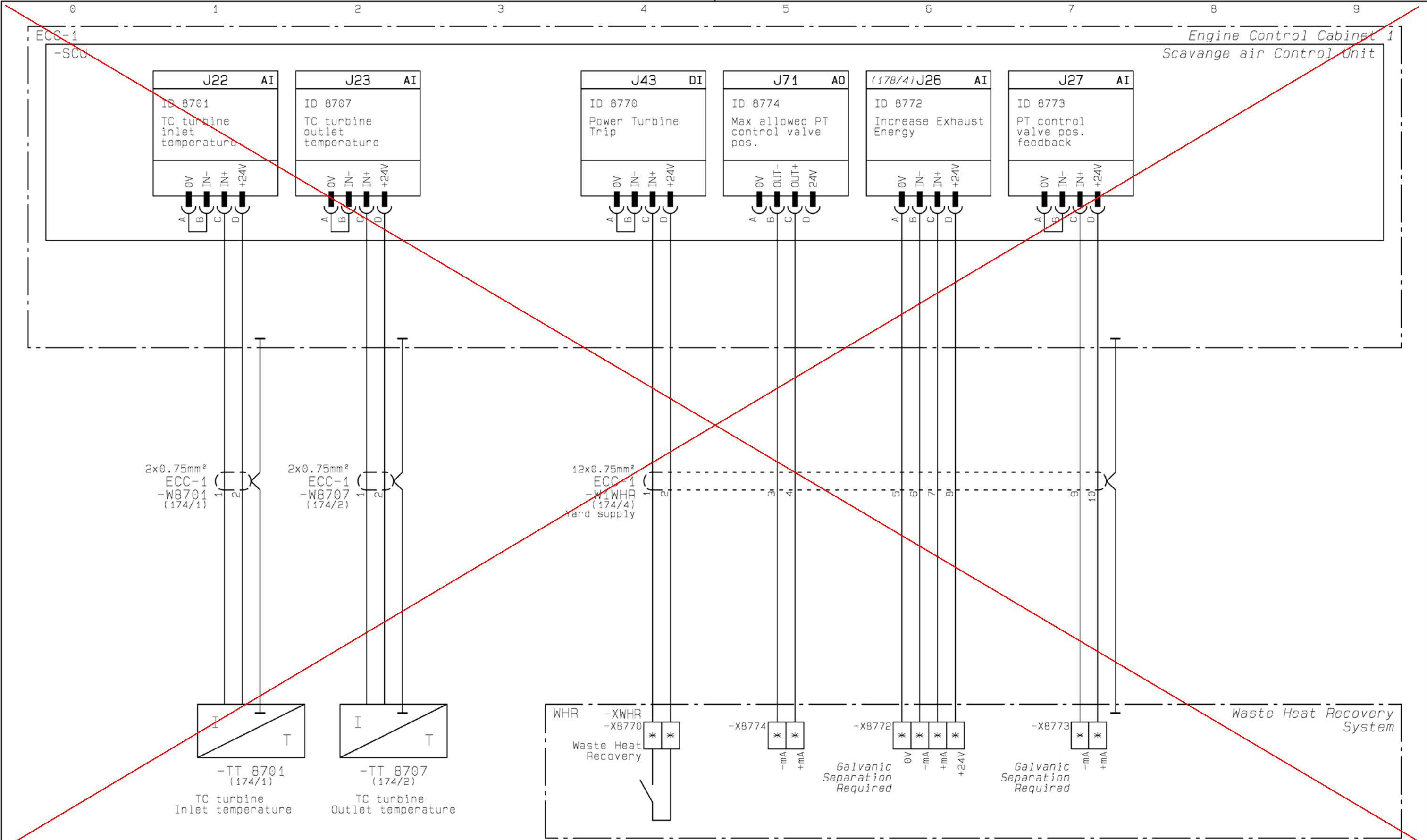
Exhaust Gas By-pass I/O	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 173(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		
									





Interface to TT Temperature + Waste Heat Recovery Cable Overview	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



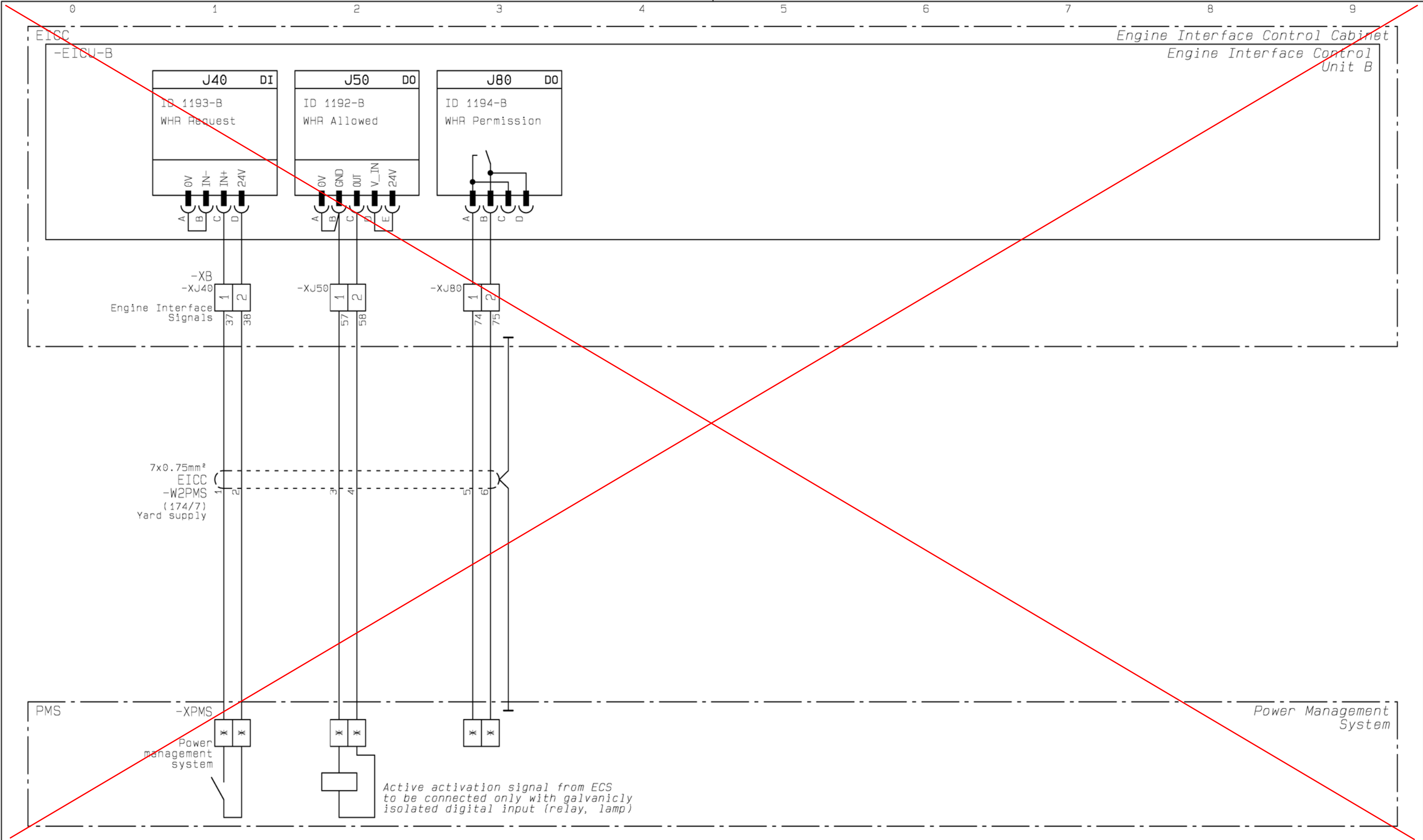


TC Temperature + Waste Heat Recovery I/O

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20141009	LKOL	JYA	Z3	EICU signal to LDCL added	12105907	
Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 175(241)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

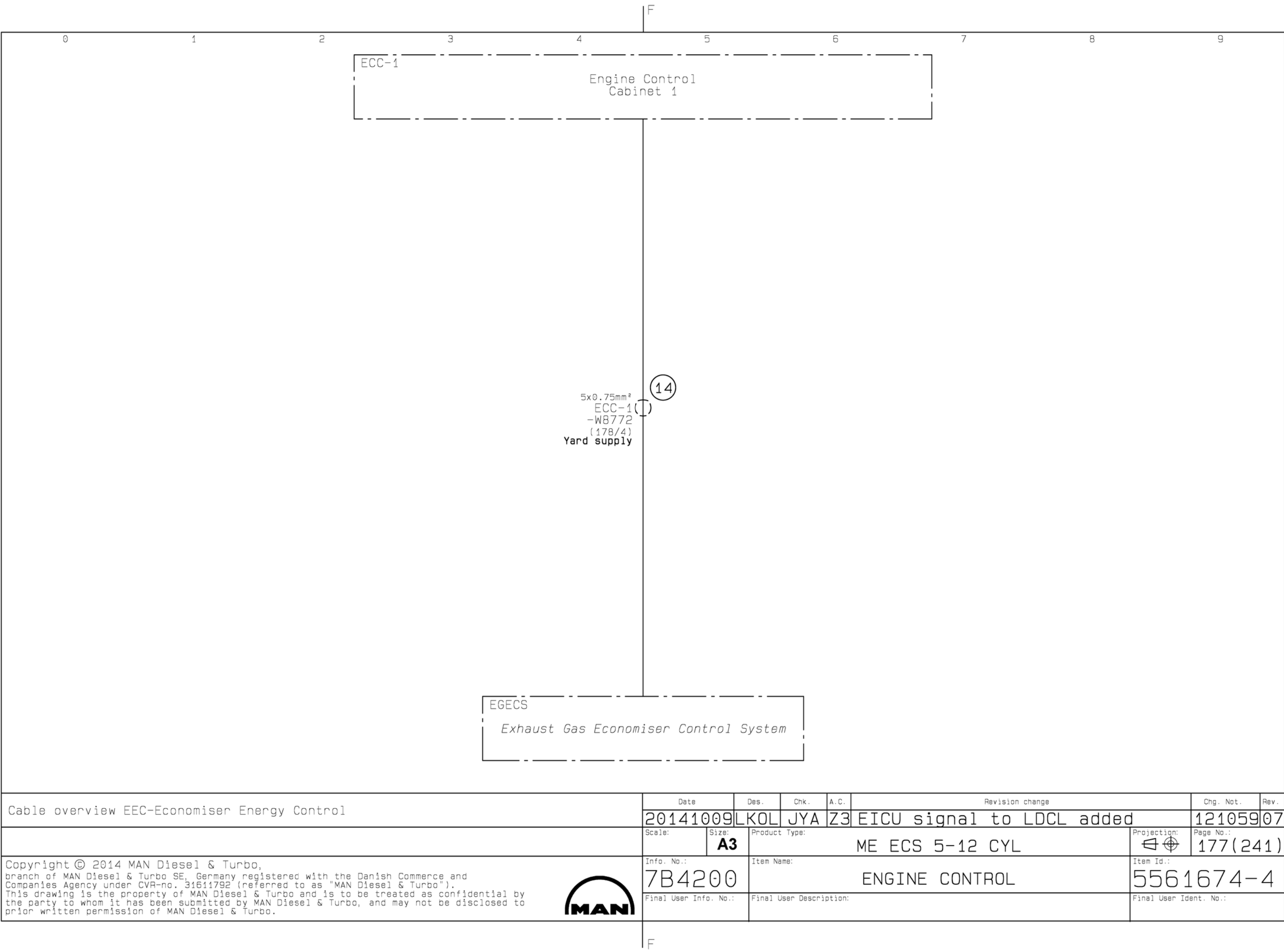
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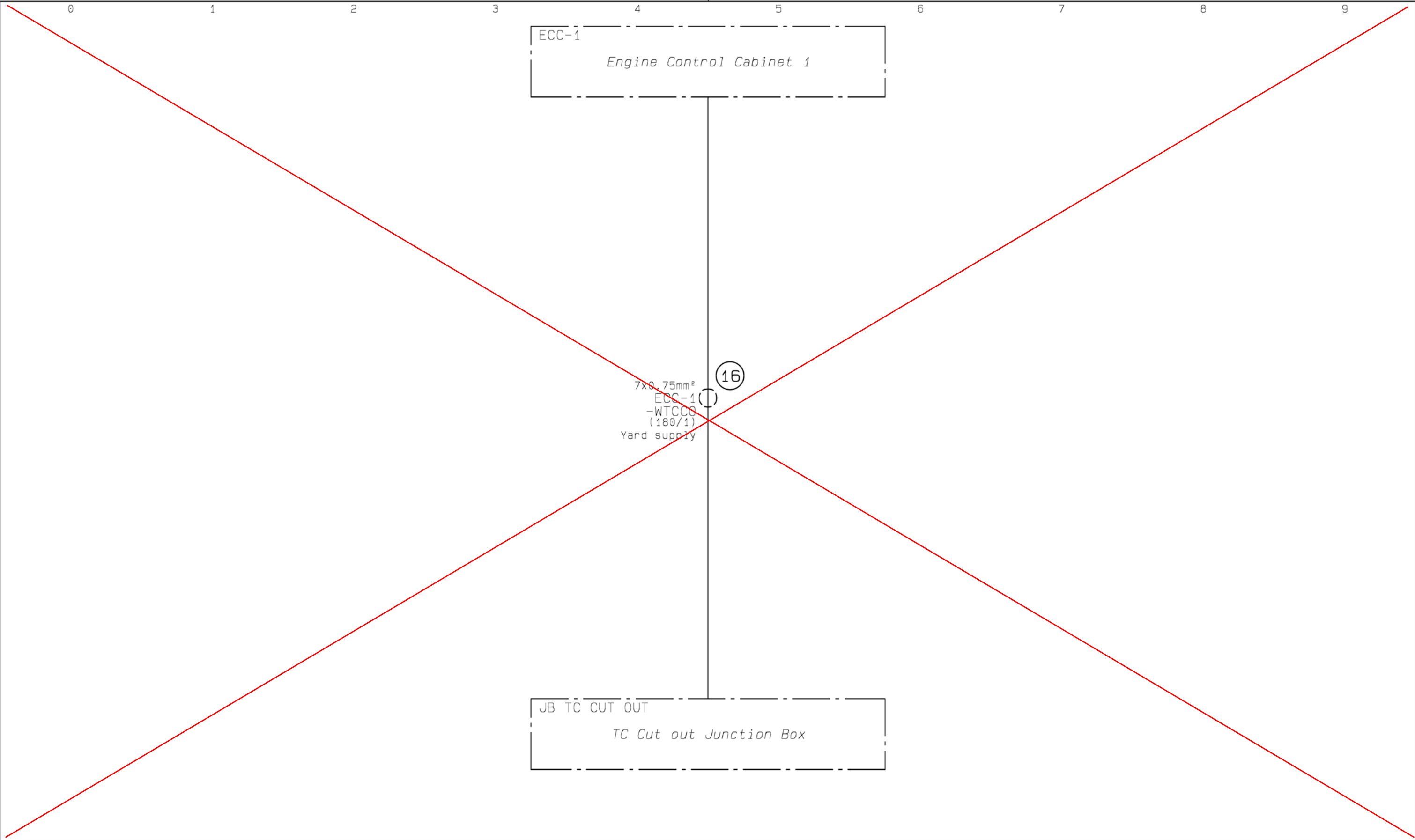


PMS - Power Management System WHR	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 176(241)	
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			7B4200		ENGINE CONTROL			5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	



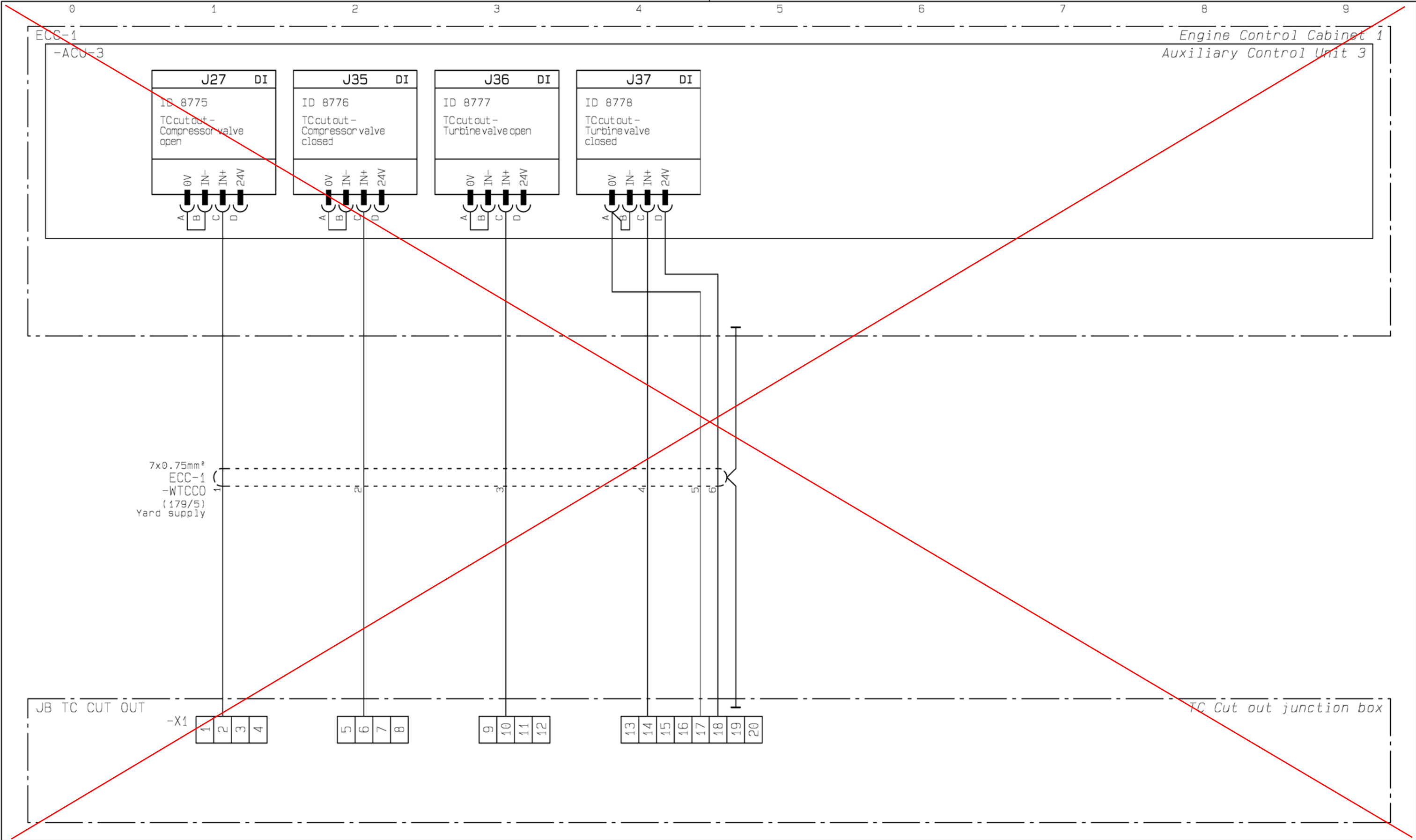




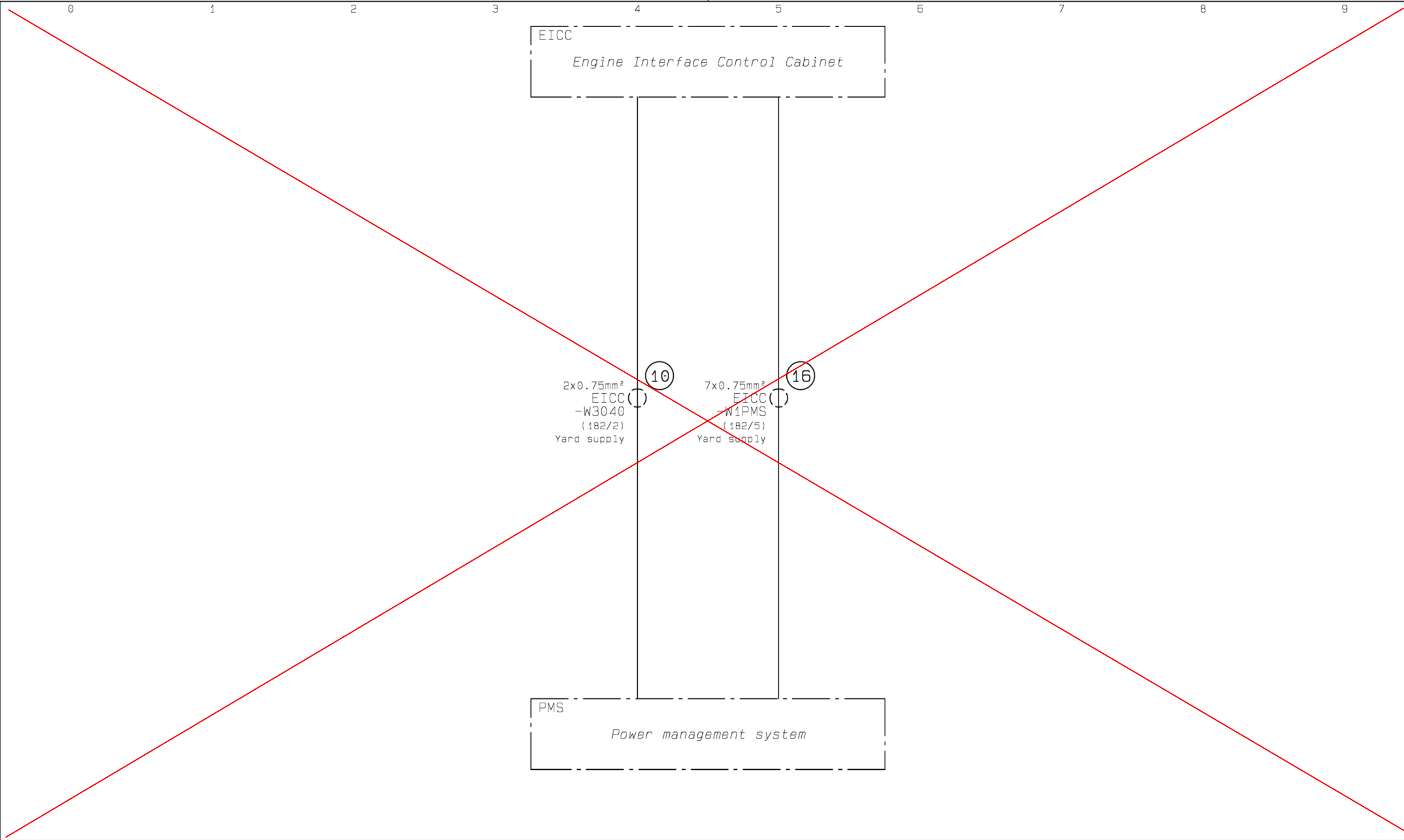


TC-Cut Out Cable Overview	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



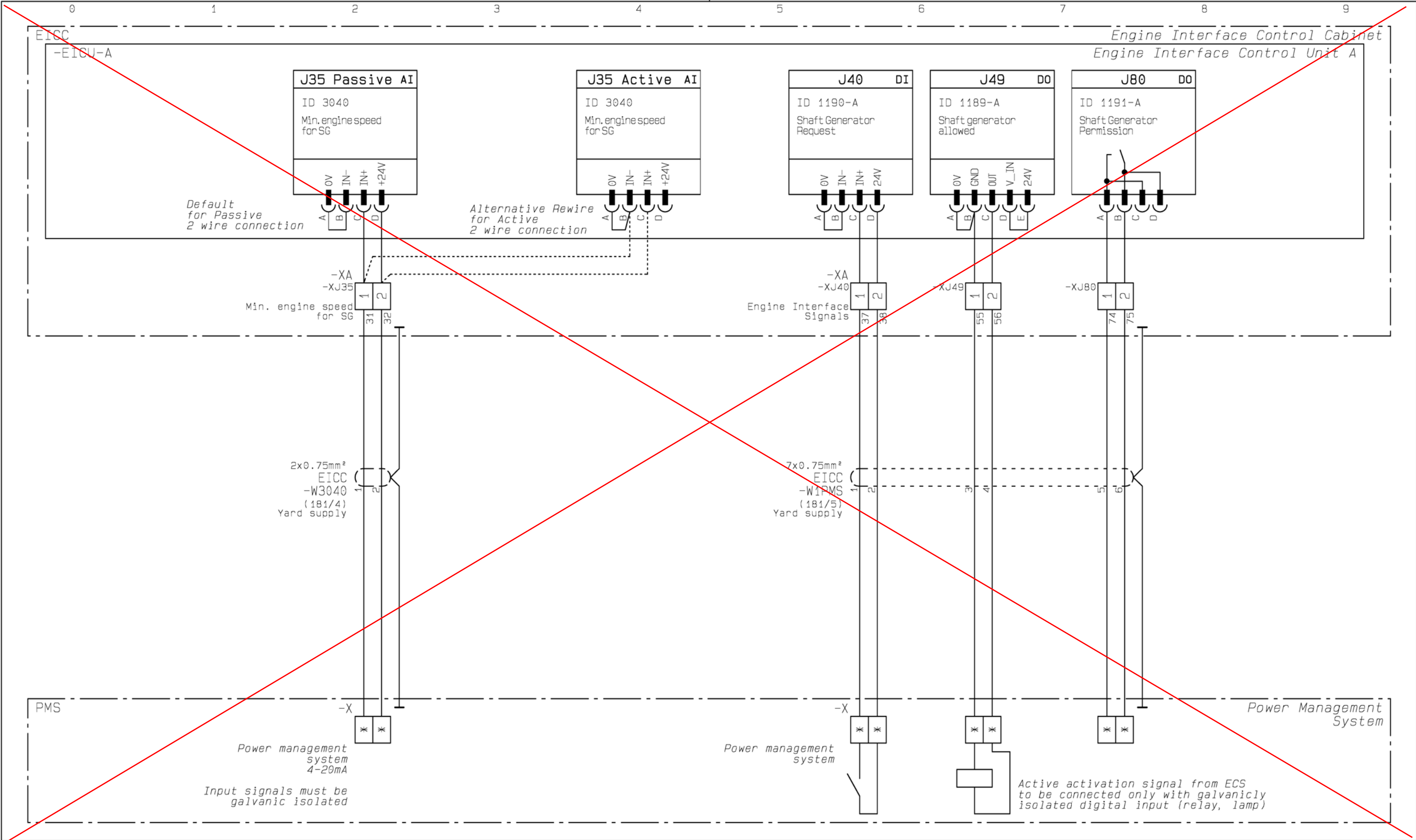


TC-Cut Out interface	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



Shaft generator Cable Overview	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200	Item Name: ENGINE CONTROL			Item Id.: 5561674-4		
Final User Info. No.:			Final User Description:			Final User Ident. No.:	





Shaft generator interface	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 182(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		
									

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13 I/O LIST

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I/O LIST	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 183(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		
									



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	134/5
-ACU-1	J03		Power out 2A	Power	-ZV1202-A	36/1
-ACU-1	J06		Power out 2A	Power	LOP-X	46/1
-ACU-1	J07		Power out 2A	Power	LOP-X	45/2
-ACU-1	J08		Power out 2A	Power	LOP-X	45/4
-ACU-1	J09		Supply for prop-valve control amplifier out 10A	Power	-XC 1240-1	31/1
-ACU-1	J21	ID 1111-A	Main starting Valve Blocked input	DI		19/2
-ACU-1	J22	ID 1110-A	Turning Gear engaged input (indication)	DI		14/2
-ACU-1	J23	ID 1109-A	Turning Gear disengaged input	DI		15/2
-ACU-1	J24	ID 1112-A	Main starting Valve "In Service" input	DI		18/2
-ACU-1	J25	ID 1116-A	Start Air Distribution System in Service	DI		17/2
-ACU-1	J26	ID 2158-A	Lamp Test	DI		48/3
-ACU-1	J27	ID 1236	Leakage from hydraulic unit - leak shutdown level (NO)	DI	-LS 1236	37/2
-ACU-1	J31	ID 1201-1	Hydraulic pressure after non-return valve	AI		31/6
-ACU-1	J32	ID 1204-1	Lube oil pressure at pump inlet after filter	AI		31/8
-ACU-1	J33	ID 3035	ECS Isolation Level	AI	-ACU-1	141/5
-ACU-1	J34	ID 1222-1	Swash-plate position feedback	AI	-ZT 1222-1	31/4
-ACU-1	J35	ID 8505-A	Air Spring Supply Pressure	AI		27/2
-ACU-1	J36	ID 8503-A	Control air pressure	AI		25/2
-ACU-1	J37	ID 8501-A	Starting air pressure	AI		26/2
-ACU-1	J40	ID 8621-1	Blower 1 remote/local-fail	DI		53/1
-ACU-1	J41	ID 8623-1	Blower 1 running	DI		53/2
-ACU-1	J42	ID 8621-4	Blower 4 remote/local-fail	DI		56/1
-ACU-1	J43	ID 8623-4	Blower 4 running	DI		56/2
-ACU-1	J44	ID 1212-A	Start up pump 1 remote/local-fail	DI		51/1
-ACU-1	J45	ID 1213-A	Start up pump 1 running	DI		51/2
-ACU-1	J47	ID 1202-A	System by-pass 1202-A supervision			36/3
-ACU-1	J49	ID 2106-A	Load Limitation - local indication	DO	LOP-X	46/5
-ACU-1	J50	ID 2107-A	Start Failure	DO	LOP-X	48/1
-ACU-1	J51	ID 1264-A	Aux. Blowers Warning	DO	LOP-X	46/4
-ACU-1	J52	ID 1263-A	Aux. Blowers Running	DO	LOP-X	46/3
-ACU-1	J53	ID 2181-A	Turning Gear Disengaged	DO	LOP-X	45/1
-ACU-1	J60	ID 2108	Start blocked (for LOP indication)	DO		44/2
-ACU-1	J61	ID 1210-1	Start up pump 1 start/stop	DO		51/3
-ACU-1	J65	Line A	Network line A	Line A	ECC-2-R.A	83/3
-ACU-1	J66	Line B	Network line B	Line B	-CWCU.J65	93/3
-ACU-1	J70	ID 1240-1	Swash-plate command (set point)	AO		31/2
-ACU-1	J80	ID 1202-A	System by-pass valve solenoid A	DO		36/2
-ACU-1	J81	ID 8620-4	Blower 4 start/stop	DO	AUXB-4-X2	56/3
-ACU-1	J82	ID 8620-1	Blower 1 start/stop	DO	AUXB-1-X2	53/3
-ACU-1	J83	ID 2210-A	Engine not Ready Output for the LOP	DO		46/2

I/O list	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 184(241)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
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I/O Lists

[illegible]

I/O list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
			Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 185(241)
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			7B4200		ENGINE CONTROL			5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	

I/O Lists

[illegible]

I/O list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
			Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 186(241
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			Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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	136/3
-CCU-2	J35	ID 3035	ECS Isolation Level	AI	-CCU-2	143/3
-CCU-2	J40	ID 4001-A	Marker master - Tacho set A			118/5
-CCU-2	J41	ID 4002-A	Marker Slave - Tacho set A			118/6
-CCU-2	J42	ID 4003-A	Quadrature 1 - Tacho set A			118/7
-CCU-2	J43	ID 4004-A	Quadrature 2 - Tacho set A			118/7
-CCU-2	J44	ID 4001-B	Marker master - Tacho set B			128/5
-CCU-2	J45	ID 4002-B	Marker Slave - Tacho set B			128/6
-CCU-2	J46	ID 4003-B	Quadrature 1 - Tacho set B			128/7
-CCU-2	J47	ID 4004-B	Quadrature 2 - Tacho set B			128/7
-CCU-2	J65	Net A	Network line A	Net A	ECC-2-XNET-A	88/5
-CCU-2	J66	Net B	Network line B	Net B	-CWCU.J65	98/6
-CCU-3	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	136/5
-CCU-3	J35	ID 3035	ECS Isolation Level	AI	-CCU-3	143/5
-CCU-3	J40	ID 4001-A	Marker master - Tacho set A			116/5
-CCU-3	J41	ID 4002-A	Marker Slave - Tacho set A			116/6
-CCU-3	J42	ID 4003-A	Quadrature 1 - Tacho set A			116/7
-CCU-3	J43	ID 4004-A	Quadrature 2 - Tacho set A			116/7
-CCU-3	J44	ID 4001-B	Marker master - Tacho set B		ECC-3-X3TSA-B	126/5
-CCU-3	J45	ID 4002-B	Marker Slave - Tacho set B		ECC-3-X3TSA-B	126/6
-CCU-3	J46	ID 4003-B	Quadrature 1 - Tacho set B		ECC-3-X3TSA-B	126/7
-CCU-3	J47	ID 4004-B	Quadrature 2 - Tacho set B		ECC-3-X3TSA-B	126/7
-CCU-3	J65	Net A	Network line A	Net A	ECC-2-R.A	87/4
-CCU-3	J66	Net B	Network line B	Net B	-CWCU.J65	97/4
-CCU-4	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	136/7
-CCU-4	J35	ID 3035	ECS Isolation Level	AI	-CCU-4	143/7
-CCU-4	J40	ID 4001-A	Marker master - Tacho set A			118/1
-CCU-4	J41	ID 4002-A	Marker Slave - Tacho set A			118/2
-CCU-4	J42	ID 4003-A	Quadrature 1 - Tacho set A			118/3
-CCU-4	J43	ID 4004-A	Quadrature 2 - Tacho set A			118/4
-CCU-4	J44	ID 4001-B	Marker master - Tacho set B			128/1
-CCU-4	J45	ID 4002-B	Marker Slave - Tacho set B			128/2
-CCU-4	J46	ID 4003-B	Quadrature 1 - Tacho set B			128/3
-CCU-4	J47	ID 4004-B	Quadrature 2 - Tacho set B			128/4
-CCU-4	J65	Net A	Network line A	Net A	ECC-2-R.A	88/3
-CCU-4	J66	Net B	Network line B	Net B	-EICU-B-XNET-B	98/4

I/O list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL					Projection: 	Page No.: 187(241)	
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	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
-CCU-5	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	137/1
-CCU-5	J35	ID 3035	ECS Isolation Level	AI	-CCU-5	144/1
-CCU-5	J40	ID 4001-A	Marker master - Tacho set A			117/1
-CCU-5	J41	ID 4002-A	Marker Slave - Tacho set A			117/2
-CCU-5	J42	ID 4003-A	Quadrature 1 - Tacho set A			117/3
-CCU-5	J43	ID 4004-A	Quadrature 2 - Tacho set A			117/4
-CCU-5	J44	ID 4001-B	Marker master - Tacho set B			127/1
-CCU-5	J45	ID 4002-B	Marker Slave - Tacho set B			127/2
-CCU-5	J46	ID 4003-B	Quadrature 1 - Tacho set B			127/3
-CCU-5	J47	ID 4004-B	Quadrature 2 - Tacho set B			127/4
-CCU-5	J65	Net A	Network line A	Net A	ECC-2-R.A	87/6
-CCU-5	J66	Net B	Network line B	Net B	-CWCU.J65	97/6
-CCU-6	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	137/3
-CCU-6	J35	ID 3035	ECS Isolation Level	AI	-CCU-6	144/3
-CCU-6	J40	ID 4001-A	Marker master - Tacho set A			117/5
-CCU-6	J41	ID 4002-A	Marker Slave - Tacho set A			117/6
-CCU-6	J42	ID 4003-A	Quadrature 1 - Tacho set A			117/7
-CCU-6	J43	ID 4004-A	Quadrature 2 - Tacho set A			117/7
-CCU-6	J44	ID 4001-B	Marker master - Tacho set B			127/5
-CCU-6	J45	ID 4002-B	Marker Slave - Tacho set B			127/6
-CCU-6	J46	ID 4003-B	Quadrature 1 - Tacho set B			127/7
-CCU-6	J47	ID 4004-B	Quadrature 2 - Tacho set B			127/7
-CCU-6	J65	Net A	Network line A	Net A	ECC-2-R.A	88/2
-CCU-6	J66	Net B	Network line B	Net B	-EICU-B-XNET-B	98/3
-CCU-7	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	138/1
-CCU-7	J35	ID 3035	ECS Isolation Level	AI	-CCU-7	145/1
-CCU-7	J40	ID 4001-A	Marker master - Tacho set A			112/1
-CCU-7	J41	ID 4002-A	Marker Slave - Tacho set A			112/2
-CCU-7	J42	ID 4003-A	Quadrature 1 - Tacho set A			112/3
-CCU-7	J43	ID 4004-A	Quadrature 2 - Tacho set A			112/4
-CCU-7	J44	ID 4001-B	Marker master - Tacho set B		ECC-1-X3TSA-B	122/1
-CCU-7	J45	ID 4002-B	Marker Slave - Tacho set B		ECC-1-X3TSA-B	122/2
-CCU-7	J46	ID 4003-B	Quadrature 1 - Tacho set B		ECC-1-X3TSA-B	122/3
-CCU-7	J47	ID 4004-B	Quadrature 2 - Tacho set B		ECC-1-X3TSA-B	122/4
-CCU-7	J65	Net A	Network line A	Net A	ECC-2-R.A	85/3
-CCU-7	J66	Net B	Network line B	Net B	-CWCU.J65	95/3

I/O list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL						Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:						Final User Ident. No.:	



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-A-X1	138/3
-CCU-8	J35	ID 3035	ECS Isolation Level	AI	-CCU-8	145/3
-CCU-8	J40	ID 4001-A	Marker master - Tacho set A		ECC-2-X2TSA-A	114/5
-CCU-8	J41	ID 4002-A	Marker Slave - Tacho set A		ECC-2-X2TSA-A	114/6
-CCU-8	J42	ID 4003-A	Quadrature 1 - Tacho set A		ECC-2-X2TSA-A	114/7
-CCU-8	J43	ID 4004-A	Quadrature 2 - Tacho set A		ECC-2-X2TSA-A	114/7
-CCU-8	J44	ID 4001-B	Marker master - Tacho set B		ECC-2-X2TSA-B	124/5
-CCU-8	J45	ID 4002-B	Marker Slave - Tacho set B		ECC-2-X2TSA-B	124/6
-CCU-8	J46	ID 4003-B	Quadrature 1 - Tacho set B		ECC-2-X2TSA-B	124/7
-CCU-8	J47	ID 4004-B	Quadrature 2 - Tacho set B		ECC-2-X2TSA-B	124/7
-CCU-8	J65	Net A	Network line A	Net A	ECC-2-R.A	86/6
-CCU-8	J66	Net B	Network line B	Net B	-CWCU.J65	96/6
-CCU-9	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	138/5
-CCU-9	J35	ID 3035	ECS Isolation Level	AI	-CCU-9	145/5
-CCU-9	J40	ID 4001-A	Marker master - Tacho set A			112/5
-CCU-9	J41	ID 4002-A	Marker Slave - Tacho set A			112/6
-CCU-9	J42	ID 4003-A	Quadrature 1 - Tacho set A			112/7
-CCU-9	J43	ID 4004-A	Quadrature 2 - Tacho set A			112/7
-CCU-9	J44	ID 4001-B	Marker master - Tacho set B		ECC-1-X3TSA-B	122/5
-CCU-9	J45	ID 4002-B	Marker Slave - Tacho set B		ECC-1-X3TSA-B	122/6
-CCU-9	J46	ID 4003-B	Quadrature 1 - Tacho set B		ECC-1-X3TSA-B	122/7
-CCU-9	J47	ID 4004-B	Quadrature 2 - Tacho set B		ECC-1-X3TSA-B	122/7
-CCU-9	J65	Net A	Network line A	Net A	ECC-2-R.A	85/4
-CCU-9	J66	Net B	Network line B	Net B	-CWCU.J65	95/4
-CCU-10	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	138/7
-CCU-10	J35	ID 3035	ECS Isolation Level	AI	-CCU-10	145/7
-CCU-10	J40	ID 4001-A	Marker master - Tacho set A		ECC-2-X2TSA-A	114/1
-CCU-10	J41	ID 4002-A	Marker Slave - Tacho set A		ECC-2-X2TSA-A	114/2
-CCU-10	J42	ID 4003-A	Quadrature 1 - Tacho set A		ECC-2-X2TSA-A	114/3
-CCU-10	J43	ID 4004-A	Quadrature 2 - Tacho set A		ECC-2-X2TSA-A	114/4
-CCU-10	J44	ID 4001-B	Marker master - Tacho set B			124/1
-CCU-10	J45	ID 4002-B	Marker Slave - Tacho set B			124/2
-CCU-10	J46	ID 4003-B	Quadrature 1 - Tacho set B			124/3
-CCU-10	J47	ID 4004-B	Quadrature 2 - Tacho set B			124/4
-CCU-10	J65	Net A	Network line A	Net A	ECC-2-R.A	86/4
-CCU-10	J66	Net B	Network line B	Net B	-CWCU.J65	96/4

I/O list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL						Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:						Final User Ident. No.:	



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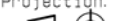
Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-CCU-11	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	139/1
-CCU-11	J35	ID 3035	ECS Isolation Level	AI	-CCU-11	146/1
-CCU-11	J40	ID 4001-A	Marker master - Tacho set A			113/1
-CCU-11	J41	ID 4002-A	Marker Slave - Tacho set A			113/2
-CCU-11	J42	ID 4003-A	Quadrature 1 - Tacho set A			113/3
-CCU-11	J43	ID 4004-A	Quadrature 2 - Tacho set A			113/4
-CCU-11	J44	ID 4001-B	Marker master - Tacho set B			123/1
-CCU-11	J45	ID 4002-B	Marker Slave - Tacho set B			123/2
-CCU-11	J46	ID 4003-B	Quadrature 1 - Tacho set B			123/3
-CCU-11	J47	ID 4004-B	Quadrature 2 - Tacho set B			123/4
-CCU-11	J65	Net A	Network line A	Net A	ECC-2-R.A	85/6
-CCU-11	J66	Net B	Network line B	Net B	-CWCU.J65	95/6
-CCU-12	J01		Power Supply A - Power Supply B	Power	UPS-A-X1	139/3
-CCU-12	J35	ID 3035	ECS Isolation Level	AI	-CCU-12	146/3
-CCU-12	J40	ID 4001-A	Marker master - Tacho set A			113/5
-CCU-12	J41	ID 4002-A	Marker Slave - Tacho set A			113/6
-CCU-12	J42	ID 4003-A	Quadrature 1 - Tacho set A			113/7
-CCU-12	J43	ID 4004-A	Quadrature 2 - Tacho set A			113/7
-CCU-12	J44	ID 4001-B	Marker master - Tacho set B			123/5
-CCU-12	J45	ID 4002-B	Marker Slave - Tacho set B			123/6
-CCU-12	J46	ID 4003-B	Quadrature 1 - Tacho set B			123/7
-CCU-12	J47	ID 4004-B	Quadrature 2 - Tacho set B			123/7
-CCU-12	J65	Net A	Network line A	Net A	ECC-2-R.A	86/3
-CCU-12	J66	Net B	Network line B	Net B	-CWCU.J65	96/3
-CCU-n	J9		Supply to ELFI/FIVA amplifier 10A		-XC 4107-n	62/1
-CCU-n	J21	ID 8285-n	Cyl. Lube Oil Supply Fail (level/flow)	DI	-LS 8285-n	64/5
-CCU-n	J30	ID 4102-n	ELFI/FIVA Position Feedback	AI	-ZT 4102-n	62/3
-CCU-n	J31	ID 4114-n	Fuel Pump Plunger Position	AI	-ZT 4114-n	63/3
-CCU-n	J32	ID 2002	Shut Down from Safety system	DI		163/7
-CCU-n	J34	ID 4111-n/4117-n	Exhaust Valve Position / Exhaust Valve Air Spring Pressure	AI	-ZT 4111-n	63/6
-CCU-n	J51	ID 8281-n	Lubricator activation		-ZV 8281-n	64/2
-CCU-n	J52	ID 8282-n	Lubricator Feedback		-ZT 8282-n	64/3
-CCU-n	J70	ID 4107-n	ELFI/FIVA Valve Control Set Point		-XC 4107-n	62/2
-CCU-n	J103		Loop Terminals			65/3

I/O list	Date				Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL						Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:						Final User Ident. No.:		



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I/O list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

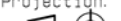
I/O Lists

Unit	Plug no.	Signal ID	Signal	Signal type	To	Page/Grid
-ECU-A	J01		Power supply A Power supply B	Power	UPS-B-X1	134/1
-ECU-A	J03		Power out 2A	Power	-ZV 1114	20/2
-ECU-A	J04		Power out 2A	Power	-ZV 1121-A	21/2
-ECU-A	J05		Power out 2A	Power	LOP-X	40/1
-ECU-A	J06		Power out 2A	Power	LOP-X	40/3
-ECU-A	J07		Power out 2A	Power	LOP-X	47/1
-ECU-A	J08		Power out 2A	Power	-ZV 1243-A	35/1
-ECU-A	J21	ID 2152-A	Increase limitation - Local Control Panel	DI		47/3
-ECU-A	J22	ID 2151-A	Stop - Local control Panel	DI		13/2
-ECU-A	J23	ID 2114-A	Air Run - Local Control Panel	DI		42/2
-ECU-A	J24	ID 2115-A	Slow Turning - Local Control Panel	DI		43/2
-ECU-A	J25	ID 2153-A	Take Command - Local Control Panel	DI		40/5
-ECU-A	J26	ID 2150-A	Speed Set from Local Control Panel	AI	-LT-XC 2150-A	23/2
-ECU-A	J32	ID 1117-A	Start Air Distribution System Blocked	DI		16/2
-ECU-A	J34	ID 2001-A	Shut Down from Safety system	DI		161/2
-ECU-A	J35	ID 8601-A	Scavenge air pressure	AI		24/2
-ECU-A	J37	ID 3035	ECS Isolation Level	AI	-ECU-A	141/1
-ECU-A	J40	ID 4001-A	Marker master - Tacho set A		-TSA-A	110/1
-ECU-A	J41	ID 4002-A	Marker Slave - Tacho set A			110/2
-ECU-A	J42	ID 4003-A	Quadrature 1 - Tacho set A			110/3
-ECU-A	J43	ID 4004-A	Quadrature 2 - Tacho set A			110/4
-ECU-A	J44	ID 4001-B	Marker master - Tacho set B			120/5
-ECU-A	J45	ID 4002-B	Marker Slave - Tacho set B			120/6
-ECU-A	J46	ID 4003-B	Quadrature 1 - Tacho set B			120/7
-ECU-A	J47	ID 4004-B	Quadrature 2 - Tacho set B			120/7
-ECU-A	J52	ID 8287-A	Lubricator activation back up	DO	-ZV 8287-A	22/2
-ECU-A	J61	ID 2005-A	Reset shut down - from ECS	DO		162/2
-ECU-A	J65	Line A	Network line A	Line A	ECC-2-R.A	83/4
-ECU-A	J66	Line B	Network line B	Line B	-CWCU.J65	93/4
-ECU-A	J71	ID 8501	Starting Air Pressure for LOP indication	AO		41/7
-ECU-A	J80	ID 1114	Slowturning valve	DO		20/3
-ECU-A	J81	ID 1243-A	Force driven pump astern pump no.4	DO		35/2
-ECU-A	J82	ID 1121-A	Output for Main Starting Valve control	DO		21/3
-ECU-A	J83	ID 2206-A	Manual Slow Down Request, at local	DO		40/2
-ECU-A	J84	ID 2154-A	Forced Command Take over - LOP	DO		40/4
-ECU-A	J85	ID 2159-A	Increase limitation - for LOP indication	DO		47/2

I/O list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 192(241)
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			7B4200	ENGINE CONTROL		5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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I/O list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
			Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 194(241)
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			7B4200		ENGINE CONTROL			5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	

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-A-X1	133/7
-EICU-B	J02	ID 2201-B	Power failure signal (NC)	Power	AMS1	151/7
-EICU-B	J23	ID 2142-B	Increase limitation - ECR	DI		165/7
-EICU-B	J24	ID 2205-B	Slow Down request (pre-warning)	DI		152/7
-EICU-B	J25	ID 2010-B	Slow down command	DI		153/7
-EICU-B	J27	ID 2140-B	Speed set from ECR	AI	ECR	166/7
-EICU-B	J32	ID 2141-B	Stop - ECR	DI		167/7
-EICU-B	J34	ID 2143-B	Take command - ECR	DI		168/7
-EICU-B	J37	ID 3035	ECS Isolation Level	AI	-EICU-B	140/6
-EICU-B	J40	ID 1193-B	WHR Request	DI		176/1
-EICU-B	J50	ID 1192-B	WHR Allowed	DO	PMS-XPMS	176/2
-EICU-B	J52	ID 2210-B	Engine stopped	DO		154/7
-EICU-B	J53	ID 2180-B	Load Limitation - indication ECR	DO	EICC-XB	169/7
-EICU-B	J60	ID 2021-B	Cancellable Shut Down	DO		155/7
-EICU-B	J61	ID 2202-B	ME Common Alarm	DO		156/7
-EICU-B	J65	Line A	Network line A	Line A	ECC-2-R.A	82/6
-EICU-B	J66	Line B	Network line B	Line B	-CWCU.J65	91/3
-EICU-B	J68	RS422	Serial Communication Signals		RCS	164/7
-EICU-B	J70	ID xxxx-x	Available output	AO		170/6
-EICU-B	J71	ID xxxx-x	Available output	AO		170/8
-EICU-B	J80	ID 1194-B	WHR Permission	DO	PMS-XPMS	176/3
-EICU-B	J81	ID 2020-B	Non-cancelable shut Down	DO	SS	157/7
-EICU-B	J82	ID 2207-B	Slow down request	DO	EICC-XB	158/7
-EICU-B	J83	ID 2130-B	Ahead command (commanded running direction)	DO	EICC-XB	159/7
-EICU-B	J84	ID 2131-B	Astern command (commanded running direction)	DO	EICC-XB	160/7
-MOP A	Network A	Line A	Network line A			81/6
-MOP A	Network B	Line B	Network line B			90/3
-MOP A PC	MOP-A Computer	Power	24VDC Power Supply		JB MOP-A-X1	132/1
-MOP A Screen	MOP-A Screen	Power	24VDC Power Supply		JB MOP-A-X1	132/2
-MOP B	Network A	Line A	Network line A			81/3
-MOP B	Network B	Line B	Network line B			90/6
-MOP B PC	MOP-B Computer	Power	24VDC Power Supply		JB MOP-B-X1	132/6
-MOP B Screen	MOP-B Screen	Power	24VDC Power Supply		JB MOP-B-X1	132/7
-PMI	J01		Power supply A Power supply B	Power	JB MOP-B-X1	135/8

I/O list	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:
		A3	ME ECS 5-12 CYL					195(241)
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	7B4200		ENGINE CONTROL				5561674-4	
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I/O list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 196(241)	
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			7B4200		ENGINE CONTROL			5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	

15 ENGINE BUILDER CABLE LIST

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ENGINE BUILDER CABLE LIST	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 197(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



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.
*-W4107-n	1	62/7	HCU-n-XHCU : 1	1	62/6	*-XC 4107-n : A	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	2	62/7	HCU-n-XHCU : 2	2	62/6	*-XC 4107-n : B	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	3	62/7	HCU-n-XHCU : 3	3	62/7	*-XC 4107-n : D	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	4	62/7	HCU-n-XHCU : 4	4	62/7	*-XC 4107-n : E	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	5	62/7	HCU-n-XHCU : 5	5	62/7	*-XC 4107-n : F	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	6	62/7	HCU-n-XHCU : 6	6	62/7	*-XC 4107-n : C	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	7	62/7	HCU-n-XHCU : 7	7	62/7	*-XC 4107-n : PE	62/7	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	8	62/8	HCU-n-XHCU : 8	8	62/8	*-XC 4107-n : N.C.	62/8	4x2x1,5mm² 1880582-5 / 1881534-1
*-W4107-n	Screen	62/8	HCU-n : Screen in gland	62/8	*-XC 4107-n : Screen in gland	62/8	4x2x1,5mm² 1880582-5 / 1881534-1	
-ACU-1-WHPS_A	1	31/1	-ACU-1.J09 : B	31/1	ECC-1-XHPS : 1	31/1	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	2	31/1	-ACU-1.J09 : A	31/1	ECC-1-XHPS : 2	31/1	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	3	31/2	-ACU-1.J70 : C	31/2	ECC-1-XHPS : 3	31/2	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	4	31/2	-ACU-1.J70 : B	31/2	ECC-1-XHPS : 4	31/2	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	5	31/4	-ACU-1.J34 : D	31/4	ECC-1-XHPS : 5	31/4	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	6	31/4	-ACU-1.J34 : B	31/4	ECC-1-XHPS : 7	31/4	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	7	31/4	-ACU-1.J34 : C	31/4	ECC-1-XHPS : 8	31/4	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	8	31/6	-ACU-1.J31 : D	31/6	ECC-1-XHPS : 9	31/6	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	9	31/6	-ACU-1.J31 : C	31/6	ECC-1-XHPS : 10	31/6	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	10	31/8	-ACU-1.J32 : D	31/8	ECC-1-XHPS : 11	31/8	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	11	31/8	-ACU-1.J32 : C	31/8	ECC-1-XHPS : 12	31/8	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_A	Screen	31/8	-ACU-1 : EMC to Busbar	31/8	ECC-1 : EMC to Busbar	31/8	14x0.75mm²	EN700AC 1407
-ACU-1-WHPS_D	1	36/2	ECC-1-XHPS1 : 49	36/2	-ACU-1.J80 : B	36/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	2	36/2	ECC-1-XHPS1 : 50	36/2	-ACU-1.J03 : A	36/1	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	3	37/2	ECC-1-XHPS-D : 1	37/2	-ACU-1.J27 : D	37/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	4	37/2	ECC-1-XHPS-D : 2	37/2	-ACU-1.J27 : A	ID 1236 37/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	5	37/2	ECC-1-XHPS-D : 3	37/2	-ACU-1.J27 : B	37/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	6	37/2	ECC-1-XHPS-D : 4	37/2	-ACU-1.J27 : C	37/2	7x0.75mm²	EN700AC 0707
-ACU-1-WHPS_D	Screen	37/2	ECC-1 : EMC to Busbar	37/2	-ACU-1 : EMC to Busbar	37/2	7x0.75mm²	EN700AC 0707
-ACU-1-WNET-A	1	83/2	ECC-1-XNET-A : 1	83/1	-ACU-1.J65 : A	Line A 83/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-A	2	83/2	ECC-1-XNET-A : 2	83/1	-ACU-1.J65 : B	83/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-A	Screen	83/2	ECC-1-XNET-A : 3	83/1	-ACU-1.J65 : C	83/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	1	93/4	-ECU-A.J65 : A	Line B 93/4	-ACU-1.J65 : A	Line B 93/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	2	93/4	-ECU-A.J65 : B	93/5	-ACU-1.J65 : B	93/3	1x2x0.75mm²	EN700AF 0107
-ACU-1-WNET-B	Screen	93/4	-ECU-A.J65 : C	93/5	-ACU-1.J65 : C	93/3	1x2x0.75mm²	EN700AF 0107

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				198(241)
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	7B4200		ENGINE CONTROL			5561674-4	
		Final User Info. No.:		Final User Description:			Final User Ident. No.:



Cable Connection Lists

[illegible]

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 199(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

Cable Connection Lists

[illegible]

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 200(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-CCU-1-WTSA-A	1	116/1	ECC-2-X2TSA-A : 1	115/7	-CCU-1.J40...J43 : B	ID 4002-A 116/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	2	116/1	ECC-2-X2TSA-A : 2	115/7	-CCU-1.J40...J43 : C	116/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	3	116/1	ECC-2-X2TSA-A : 3	115/7	-CCU-1.J40...J43 : B	ID 4001-A 116/1	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	4	116/1	ECC-2-X2TSA-A : 4	115/7	-CCU-1.J40...J43 : C	116/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	5	116/1	ECC-2-X2TSA-A : 5	115/7	-CCU-1.J40...J43 : B	ID 4004-A 116/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	6	116/1	ECC-2-X2TSA-A : 6	115/7	-CCU-1.J40...J43 : C	116/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	7	116/1	ECC-2-X2TSA-A : 7	115/7	-CCU-1.J40...J43 : B	ID 4003-A 116/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	8	116/1	ECC-2-X2TSA-A : 8	115/7	-CCU-1.J40...J43 : C	116/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-A	Screen	116/1	ECC-2 : Screen to EMC Busbar	115/7	-CCU-1 : Screen to Frame	116/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	1	126/1	ECC-2-X2TSA-B : 1	125/7	-CCU-1.J44....J47 : B	ID 4002-B 126/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	2	126/1	ECC-2-X2TSA-B : 2	125/7	-CCU-1.J44....J47 : C	126/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	3	126/1	ECC-2-X2TSA-B : 3	125/7	-CCU-1.J44....J47 : B	ID 4001-B 126/1	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	4	126/1	ECC-2-X2TSA-B : 4	125/7	-CCU-1.J44....J47 : C	126/2	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	5	126/1	ECC-2-X2TSA-B : 5	125/7	-CCU-1.J44....J47 : B	ID 4004-B 126/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	6	126/1	ECC-2-X2TSA-B : 6	125/7	-CCU-1.J44....J47 : C	126/4	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	7	126/1	ECC-2-X2TSA-B : 7	125/7	-CCU-1.J44....J47 : B	ID 4003-B 126/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	8	126/1	ECC-2-X2TSA-B : 8	125/7	-CCU-1.J44....J47 : C	126/3	4x2x0.75mm²	EN700AA 0407
-CCU-1-WTSA-B	Screen	126/1	ECC-2 : Screen to EMC Busbar	125/7	-CCU-1 : Screen to Frame	126/4	4x2x0.75mm²	EN700AA 0407
-CCU-2-WNET-A	1	88/4	-CCU-4.J65 : A	Net A 88/3	-CCU-2.J65 : A	Net A 88/5	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-A	2	88/4	-CCU-4.J65 : B	88/3	-CCU-2.J65 : B	88/5	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-A	Screen	88/4	-CCU-4 : Screen to Frame	88/4	-CCU-2 : Screen to Frame	88/5	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	1	98/7	ECC-2-XNET-B : 4	98/8	-CCU-2.J66 : A	Net B 98/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	2	98/7	ECC-2-XNET-B : 5	98/8	-CCU-2.J66 : B	98/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WNET-B	Screen	98/7	ECC-2-XNET-B : 6	98/8	-CCU-2 : Screen to Frame	98/6	1x2x0.75mm²	EN700AF 0107
-CCU-2-WTSA-A	1	118/5	-CCU-4.J40...J43 : B	ID 4002-A 118/2	-CCU-2.J40...J43 : B	ID 4002-A 118/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	2	118/5	-CCU-4.J40...J43 : C	118/2	-CCU-2.J40...J43 : C	118/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	3	118/5	-CCU-4.J40...J43 : B	ID 4001-A 118/1	-CCU-2.J40...J43 : B	ID 4001-A 118/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	4	118/5	-CCU-4.J40...J43 : C	118/2	-CCU-2.J40...J43 : C	118/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	5	118/5	-CCU-4.J40...J43 : B	ID 4004-A 118/4	-CCU-2.J40...J43 : B	ID 4004-A 118/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	6	118/5	-CCU-4.J40...J43 : C	118/4	-CCU-2.J40...J43 : C	118/8	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	7	118/5	-CCU-4.J40...J43 : B	ID 4003-A 118/3	-CCU-2.J40...J43 : B	ID 4003-A 118/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	8	118/5	-CCU-4.J40...J43 : C	118/3	-CCU-2.J40...J43 : C	118/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-A	Screen	118/5	-CCU-4 : Screen to Frame	118/4	-CCU-2 : Screen to Frame	118/8	4x2x0.75mm²	EN700AA 0407

Cable list	Date				Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL					Projection: 	Page No.: 201(241)		
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			Final User Info. No.:		Final User Description:				Final User Ident. No.:		



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-CCU-2-WTSA-B	1	128/5	-CCU-4.J44....J47 : B	ID 4002-B	128/2	-CCU-2.J44....J47 : B	ID 4002-B	128/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	2	128/5	-CCU-4.J44....J47 : C		128/2	-CCU-2.J44....J47 : C		128/6	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	3	128/5	-CCU-4.J44....J47 : B	ID 4001-B	128/1	-CCU-2.J44....J47 : B	ID 4001-B	128/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	4	128/5	-CCU-4.J44....J47 : C		128/2	-CCU-2.J44....J47 : C		128/5	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	5	128/5	-CCU-4.J44....J47 : B	ID 4004-B	128/4	-CCU-2.J44....J47 : B	ID 4004-B	128/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	6	128/5	-CCU-4.J44....J47 : C		128/4	-CCU-2.J44....J47 : C		128/8	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	7	128/5	-CCU-4.J44....J47 : B	ID 4003-B	128/3	-CCU-2.J44....J47 : B	ID 4003-B	128/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	8	128/5	-CCU-4.J44....J47 : C		128/3	-CCU-2.J44....J47 : C		128/7	4x2x0.75mm²	EN700AA 0407
-CCU-2-WTSA-B	Screen	128/5	-CCU-4 : Screen to Frame		128/4	-CCU-2 : Screen to Frame		128/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WNET-A	1	87/4	-CCU-1.J65 : A	Net A	87/3	-CCU-3.J65 : A	Net A	87/4	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-A	2	87/4	-CCU-1.J65 : B		87/3	-CCU-3.J65 : B		87/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-A	Screen	87/4	-CCU-1 : Screen to Frame		87/3	-CCU-3 : Screen to Frame		87/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	1	97/5	-CCU-5.J66 : A	Net B	97/6	-CCU-3.J66 : A	Net B	97/4	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	2	97/5	-CCU-5.J66 : B		97/6	-CCU-3.J66 : B		97/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WNET-B	Screen	97/5	-CCU-5 : Screen to Frame		97/6	-CCU-3 : Screen to Frame		97/5	1x2x0.75mm²	EN700AF 0107
-CCU-3-WTSA-A	1	116/5	-CCU-1.J40...J43 : B	ID 4002-A	116/2	-CCU-3.J40...J43 : B	ID 4002-A	116/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	2	116/5	-CCU-1.J40...J43 : C		116/2	-CCU-3.J40...J43 : C		116/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	3	116/5	-CCU-1.J40...J43 : B	ID 4001-A	116/1	-CCU-3.J40...J43 : B	ID 4001-A	116/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	4	116/5	-CCU-1.J40...J43 : C		116/2	-CCU-3.J40...J43 : C		116/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	5	116/5	-CCU-1.J40...J43 : B	ID 4004-A	116/4	-CCU-3.J40...J43 : B	ID 4004-A	116/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	6	116/5	-CCU-1.J40...J43 : C		116/4	-CCU-3.J40...J43 : C		116/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	7	116/5	-CCU-1.J40...J43 : B	ID 4003-A	116/3	-CCU-3.J40...J43 : B	ID 4003-A	116/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	8	116/5	-CCU-1.J40...J43 : C		116/3	-CCU-3.J40...J43 : C		116/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-A	Screen	116/5	-CCU-1 : Screen to Frame		116/4	-CCU-3 : Screen to Frame		116/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	1	126/5	-CCU-1.J44....J47 : B	ID 4002-B	126/2	-CCU-3.J44....J47 : B	ID 4002-B	126/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	2	126/5	-CCU-1.J44....J47 : C		126/2	-CCU-3.J44....J47 : C		126/6	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	3	126/5	-CCU-1.J44....J47 : B	ID 4001-B	126/1	-CCU-3.J44....J47 : B	ID 4001-B	126/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	4	126/5	-CCU-1.J44....J47 : C		126/2	-CCU-3.J44....J47 : C		126/5	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	5	126/5	-CCU-1.J44....J47 : B	ID 4004-B	126/4	-CCU-3.J44....J47 : B	ID 4004-B	126/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	6	126/5	-CCU-1.J44....J47 : C		126/4	-CCU-3.J44....J47 : C		126/8	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	7	126/5	-CCU-1.J44....J47 : B	ID 4003-B	126/3	-CCU-3.J44....J47 : B	ID 4003-B	126/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	8	126/5	-CCU-1.J44....J47 : C		126/3	-CCU-3.J44....J47 : C		126/7	4x2x0.75mm²	EN700AA 0407
-CCU-3-WTSA-B	Screen	126/5	-CCU-1 : Screen to Frame		126/4	-CCU-3 : Screen to Frame		126/8	4x2x0.75mm²	EN700AA 0407
-CCU-4-WNET-A	1	88/3	-CCU-6.J65 : A	Net A	88/2	-CCU-4.J65 : A	Net A	88/3	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-A	2	88/3	-CCU-6.J65 : B		88/2	-CCU-4.J65 : B		88/3	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-A	Screen	88/3	-CCU-6 : Screen to Frame		88/2	-CCU-4 : Screen to Frame		88/4	1x2x0.75mm²	EN700AF 0107

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		
									



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.		
-CCU-4-WNET-B	1	98/5	-CCU-2.J66 : A	Net B	98/6	-CCU-4.J66 : A	Net B	98/4	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-B	2	98/5	-CCU-2.J66 : B		98/6	-CCU-4.J66 : B		98/5	1x2x0.75mm²	EN700AF 0107
-CCU-4-WNET-B	Screen	98/5	-CCU-2 : Screen to Frame		98/6	-CCU-4 : Screen to Frame		98/5	1x2x0.75mm²	EN700AF 0107
-CCU-4-WTSA-A	1	118/1	-CCU-6.J40...J43 : B	ID 4002-A	117/6	-CCU-4.J40...J43 : B	ID 4002-A	118/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	2	118/1	-CCU-6.J40...J43 : C		117/6	-CCU-4.J40...J43 : C		118/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	3	118/1	-CCU-6.J40...J43 : B	ID 4001-A	117/5	-CCU-4.J40...J43 : B	ID 4001-A	118/1	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	4	118/1	-CCU-6.J40...J43 : C		117/5	-CCU-4.J40...J43 : C		118/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	5	118/1	-CCU-6.J40...J43 : B	ID 4004-A	117/7	-CCU-4.J40...J43 : B	ID 4004-A	118/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	6	118/1	-CCU-6.J40...J43 : C		117/8	-CCU-4.J40...J43 : C		118/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	7	118/1	-CCU-6.J40...J43 : B	ID 4003-A	117/7	-CCU-4.J40...J43 : B	ID 4003-A	118/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	8	118/1	-CCU-6.J40...J43 : C		117/7	-CCU-4.J40...J43 : C		118/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-A	Screen	118/1	-CCU-6 : Screen to Frame		117/8	-CCU-4 : Screen to Frame		118/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	1	128/1	-CCU-6.J44...J47 : B	ID 4002-B	127/6	-CCU-4.J44....J47 : B	ID 4002-B	128/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	2	128/1	-CCU-6.J44...J47 : C		127/6	-CCU-4.J44....J47 : C		128/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	3	128/1	-CCU-6.J44...J47 : B	ID 4001-B	127/5	-CCU-4.J44....J47 : B	ID 4001-B	128/1	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	4	128/1	-CCU-6.J44...J47 : C		127/5	-CCU-4.J44....J47 : C		128/2	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	5	128/1	-CCU-6.J44...J47 : B	ID 4004-B	127/7	-CCU-4.J44....J47 : B	ID 4004-B	128/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	6	128/1	-CCU-6.J44...J47 : C		127/8	-CCU-4.J44....J47 : C		128/4	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	7	128/1	-CCU-6.J44...J47 : B	ID 4003-B	127/7	-CCU-4.J44....J47 : B	ID 4003-B	128/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	8	128/1	-CCU-6.J44...J47 : C		127/7	-CCU-4.J44....J47 : C		128/3	4x2x0.75mm²	EN700AA 0407
-CCU-4-WTSA-B	Screen	128/1	-CCU-6 : Screen to Frame		127/8	-CCU-4 : Screen to Frame		128/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WNET-A	1	87/5	-CCU-3.J65 : A	Net A	87/4	-CCU-5.J65 : A	Net A	87/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-A	2	87/5	-CCU-3.J65 : B		87/5	-CCU-5.J65 : B		87/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-A	Screen	87/5	-CCU-3 : Screen to Frame		87/5	-CCU-5 : Screen to Frame		87/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	1	97/7	-CWCU.J65 : A	Line B	92/3	-CCU-5.J66 : A	Net B	97/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	2	97/7	-CWCU.J65 : B		92/3	-CCU-5.J66 : B		97/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WNET-B	Screen	97/7	-CWCU.J65 : C		92/3	-CCU-5 : Screen to Frame		97/6	1x2x0.75mm²	EN700AF 0107
-CCU-5-WTSA-A	1	117/1	-CCU-3.J40...J43 : B	ID 4002-A	116/6	-CCU-5.J40...J43 : B	ID 4002-A	117/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	2	117/1	-CCU-3.J40...J43 : C		116/6	-CCU-5.J40...J43 : C		117/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	3	117/1	-CCU-3.J40...J43 : B	ID 4001-A	116/5	-CCU-5.J40...J43 : B	ID 4001-A	117/1	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	4	117/1	-CCU-3.J40...J43 : C		116/5	-CCU-5.J40...J43 : C		117/2	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	5	117/1	-CCU-3.J40...J43 : B	ID 4004-A	116/7	-CCU-5.J40...J43 : B	ID 4004-A	117/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	6	117/1	-CCU-3.J40...J43 : C		116/8	-CCU-5.J40...J43 : C		117/4	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	7	117/1	-CCU-3.J40...J43 : B	ID 4003-A	116/7	-CCU-5.J40...J43 : B	ID 4003-A	117/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	8	117/1	-CCU-3.J40...J43 : C		116/7	-CCU-5.J40...J43 : C		117/3	4x2x0.75mm²	EN700AA 0407
-CCU-5-WTSA-A	Screen	117/1	-CCU-3 : Screen to Frame		116/8	-CCU-5 : Screen to Frame		117/4	4x2x0.75mm²	EN700AA 0407

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					203(241)	
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		7B4200		ENGINE CONTROL				5561674-4	
		Final User Info. No.:		Final User Description:				Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-CCU-5-WTSA-B	1	127/1	-CCU-3.J44...J47 : B	ID 4002-B	126/6	-CCU-5.J44....J47 : B	ID 4002-B 127/2	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	2	127/1	-CCU-3.J44...J47 : C		126/6	-CCU-5.J44....J47 : C	127/2	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	3	127/1	-CCU-3.J44...J47 : B	ID 4001-B	126/5	-CCU-5.J44....J47 : B	ID 4001-B 127/1	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	4	127/1	-CCU-3.J44...J47 : C		126/5	-CCU-5.J44....J47 : C	127/2	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	5	127/1	-CCU-3.J44...J47 : B	ID 4004-B	126/7	-CCU-5.J44....J47 : B	ID 4004-B 127/4	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	6	127/1	-CCU-3.J44...J47 : C		126/8	-CCU-5.J44....J47 : C	127/4	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	7	127/1	-CCU-3.J44...J47 : B	ID 4003-B	126/7	-CCU-5.J44....J47 : B	ID 4003-B 127/3	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	8	127/1	-CCU-3.J44...J47 : C		126/7	-CCU-5.J44....J47 : C	127/3	4x2x0.75mm ² EN700AA 0407
-CCU-5-WTSA-B	Screen	127/1	-CCU-3 : Screen to Frame	126/8	-CCU-5 : Screen to Frame		127/4	4x2x0.75mm ² EN700AA 0407
-CCU-6-WNET-A	1	88/1	-EICU-B-XNET-A : 4	82/8	-CCU-6.J65 : A	Net A	88/2	1x2x0.75mm ² EN700AF 0107
-CCU-6-WNET-A	2	88/1	-EICU-B-XNET-A : 5	82/8	-CCU-6.J65 : B		88/2	1x2x0.75mm ² EN700AF 0107
-CCU-6-WNET-A	Screen	88/1	-EC-MOP A : Screen in Frame	81/6	-CCU-6 : Screen to Frame		88/2	1x2x0.75mm ² EN700AF 0107
-CCU-6-WNET-B	1	98/4	-CCU-4.J66 : A	Net B	98/4	-CCU-6.J66 : A	Net B 98/3	1x2x0.75mm ² EN700AF 0107
-CCU-6-WNET-B	2	98/4	-CCU-4.J66 : B		98/5	-CCU-6.J66 : B	98/3	1x2x0.75mm ² EN700AF 0107
-CCU-6-WNET-B	Screen	98/4	-CCU-4 : Screen to Frame	98/5	-CCU-6 : Screen to Frame		98/3	1x2x0.75mm ² EN700AF 0107
-CCU-6-WTSA-A	1	117/5	-CCU-5.J40...J43 : B	ID 4002-A	117/2	-CCU-6.J40...J43 : B	ID 4002-A 117/6	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	2	117/5	-CCU-5.J40...J43 : C		117/2	-CCU-6.J40...J43 : C	117/6	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	3	117/5	-CCU-5.J40...J43 : B	ID 4001-A	117/1	-CCU-6.J40...J43 : B	ID 4001-A 117/5	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	4	117/5	-CCU-5.J40...J43 : C		117/2	-CCU-6.J40...J43 : C	117/5	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	5	117/5	-CCU-5.J40...J43 : B	ID 4004-A	117/4	-CCU-6.J40...J43 : B	ID 4004-A 117/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	6	117/5	-CCU-5.J40...J43 : C		117/4	-CCU-6.J40...J43 : C	117/8	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	7	117/5	-CCU-5.J40...J43 : B	ID 4003-A	117/3	-CCU-6.J40...J43 : B	ID 4003-A 117/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	8	117/5	-CCU-5.J40...J43 : C		117/3	-CCU-6.J40...J43 : C	117/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-A	Screen	117/5	-CCU-5 : Screen to Frame	117/4	-CCU-6 : Screen to Frame		117/8	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	1	127/5	-CCU-5.J44....J47 : B	ID 4002-B	127/2	-CCU-6.J44...J47 : B	ID 4002-B 127/6	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	2	127/5	-CCU-5.J44....J47 : C		127/2	-CCU-6.J44...J47 : C	127/6	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	3	127/5	-CCU-5.J44....J47 : B	ID 4001-B	127/1	-CCU-6.J44...J47 : B	ID 4001-B 127/5	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	4	127/5	-CCU-5.J44....J47 : C		127/2	-CCU-6.J44...J47 : C	127/5	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	5	127/5	-CCU-5.J44....J47 : B	ID 4004-B	127/4	-CCU-6.J44...J47 : B	ID 4004-B 127/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	6	127/5	-CCU-5.J44....J47 : C		127/4	-CCU-6.J44...J47 : C	127/8	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	7	127/5	-CCU-5.J44....J47 : B	ID 4003-B	127/3	-CCU-6.J44...J47 : B	ID 4003-B 127/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	8	127/5	-CCU-5.J44....J47 : C		127/3	-CCU-6.J44...J47 : C	127/7	4x2x0.75mm ² EN700AA 0407
-CCU-6-WTSA-B	Screen	127/5	-CCU-5 : Screen to Frame	127/4	-CCU-6 : Screen to Frame		127/8	4x2x0.75mm ² EN700AA 0407
-CCU-7-WNET-A	1	85/2	ECC-3-XNET-A : 1	85/1	-CCU-7.J65 : A	Net A	85/3	1x2x0.75mm² EN700AF 0107
-CCU-7-WNET-A	2	85/2	ECC-3-XNET-A : 2	85/1	-CCU-7.J65 : B		85/3	1x2x0.75mm² EN700AF 0107
-CCU-7-WNET-A	Screen	85/2	ECC-3-XNET-A : 3	85/1	-CCU-7 : Screen to Frame		85/3	1x2x0.75mm² EN700AF 0107

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:					Projection:	Page No.:	
		A3	ME ECS 5-12 CYL						204(241)	
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			7B4200		ENGINE CONTROL				5561674-4	
			Final User Info. No.:		Final User Description:				Final User Ident. No.:	

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-CCU-7-WNET-B	1	95/4	-CCU-9.J66 : A Net B	95/4	-CCU-7.J66 : A Net B	95/3	1x2x0.75mm ²	EN700AF 0107
-CCU-7-WNET-B	2	95/4	-CCU-9.J66 : B	95/5	-CCU-7.J66 : B	95/3	1x2x0.75mm ²	EN700AF 0107
-CCU-7-WNET-B	Screen	95/4	-CCU-9 : Screen to Frame	95/5	-CCU-7 : Screen to Frame	95/3	1x2x0.75mm ²	EN700AF 0107
-CCU-7-WTSA-A	1	112/1	ECC-3-X2TSA-A : 1	111/7	-CCU-7.J40...J43 : B ID 4002-A	112/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	2	112/1	ECC-3-X2TSA-A : 2	111/7	-CCU-7.J40...J43 : C	112/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	3	112/1	ECC-3-X2TSA-A : 3	111/7	-CCU-7.J40...J43 : B ID 4001-A	112/1	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	4	112/1	ECC-3-X2TSA-A : 4	111/7	-CCU-7.J40...J43 : C	112/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	5	112/1	ECC-3-X2TSA-A : 5	111/7	-CCU-7.J40...J43 : B ID 4004-A	112/4	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	6	112/1	ECC-3-X2TSA-A : 6	111/7	-CCU-7.J40...J43 : C	112/4	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	7	112/1	ECC-3-X2TSA-A : 7	111/7	-CCU-7.J40...J43 : B ID 4003-A	112/3	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	8	112/1	ECC-3-X2TSA-A : 8	111/7	-CCU-7.J40...J43 : C	112/3	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-A	Screen	112/1	ECC-3 : Screen to EMC Busbar	111/7	-CCU-7 : Screen to Frame	112/4	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	1	122/1	ECC-3-X2TSA-B : 1	121/7	-CCU-7.J44....J47 : B ID 4002-B	122/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	2	122/1	ECC-3-X2TSA-B : 2	121/7	-CCU-7.J44....J47 : C	122/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	3	122/1	ECC-3-X2TSA-B : 3	121/7	-CCU-7.J44....J47 : B ID 4001-B	122/1	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	4	122/1	ECC-3-X2TSA-B : 4	121/7	-CCU-7.J44....J47 : C	122/2	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	5	122/1	ECC-3-X2TSA-B : 5	121/7	-CCU-7.J44....J47 : B ID 4004-B	122/4	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	6	122/1	ECC-3-X2TSA-B : 6	121/7	-CCU-7.J44....J47 : C	122/4	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	7	122/1	ECC-3-X2TSA-B : 7	121/7	-CCU-7.J44....J47 : B ID 4003-B	122/3	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	8	122/1	ECC-3-X2TSA-B : 8	121/7	-CCU-7.J44....J47 : C	122/3	4x2x0.75mm ²	EN700AA 0407
-CCU-7-WTSA-B	Screen	122/1	ECC-3 : Screen to EMC Busbar	121/7	-CCU-7 : Screen to Frame	122/4	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WNET-A	1	86/5	-CCU-10.J65 : A Net A	86/4	-CCU-8.J65 : A Net A	86/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WNET-A	2	86/5	-CCU-10.J65 : B	86/5	-CCU-8.J65 : B	86/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WNET-A	Screen	86/5	-CCU-10 : Screen to Frame	86/5	-CCU-8 : Screen to Frame	86/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WNET-B	1	96/7	ECC-3-XNET-B : 4	96/8	-CCU-8.J66 : A Net B	96/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WNET-B	2	96/7	ECC-3-XNET-B : 5	96/8	-CCU-8.J66 : B	96/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WNET-B	Screen	96/7	ECC-3-XNET-B : 6	96/8	-CCU-8 : Screen to Frame	96/6	1x2x0.75mm ²	EN700AF 0107
-CCU-8-WTSA-A	1	114/5	-CCU-10.J40...J43 : B ID 4002-A	114/2	-CCU-8.J40...J43 : B ID 4002-A	114/6	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	2	114/5	-CCU-10.J40...J43 : C	114/2	-CCU-8.J40...J43 : C	114/6	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	3	114/5	-CCU-10.J40...J43 : B ID 4001-A	114/1	-CCU-8.J40...J43 : B ID 4001-A	114/5	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	4	114/5	-CCU-10.J40...J43 : C	114/2	-CCU-8.J40...J43 : C	114/5	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	5	114/5	-CCU-10.J40...J43 : B ID 4004-A	114/4	-CCU-8.J40...J43 : B ID 4004-A	114/7	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	6	114/5	-CCU-10.J40...J43 : C	114/4	-CCU-8.J40...J43 : C	114/8	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	7	114/5	-CCU-10.J40...J43 : B ID 4003-A	114/3	-CCU-8.J40...J43 : B ID 4003-A	114/7	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	8	114/5	-CCU-10.J40...J43 : C	114/3	-CCU-8.J40...J43 : C	114/7	4x2x0.75mm ²	EN700AA 0407
-CCU-8-WTSA-A	Screen	114/5	-CCU-10 : Screen to Frame	114/4	-CCU-8 : Screen to Frame	114/8	4x2x0.75mm ²	EN700AA 0407

Cable list	Date				Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200				Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
Final User Info. No.:				Final User Description:				Final User Ident. No.:			



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.		
-CCU-8-WTSA-B	1	124/5	-CCU-10.J44....J47 : B	ID 4002-B	124/2	-CCU-8.J44...J47 : B	ID 4002-B	124/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	2	124/5	-CCU-10.J44....J47 : C		124/2	-CCU-8.J44...J47 : C		124/6	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	3	124/5	-CCU-10.J44....J47 : B	ID 4001-B	124/1	-CCU-8.J44...J47 : B	ID 4001-B	124/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	4	124/5	-CCU-10.J44....J47 : C		124/2	-CCU-8.J44...J47 : C		124/5	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	5	124/5	-CCU-10.J44....J47 : B	ID 4004-B	124/4	-CCU-8.J44...J47 : B	ID 4004-B	124/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	6	124/5	-CCU-10.J44....J47 : C		124/4	-CCU-8.J44...J47 : C		124/8	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	7	124/5	-CCU-10.J44....J47 : B	ID 4003-B	124/3	-CCU-8.J44...J47 : B	ID 4003-B	124/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	8	124/5	-CCU-10.J44....J47 : C		124/3	-CCU-8.J44...J47 : C		124/7	4x2x0.75mm²	EN700AA 0407
-CCU-8-WTSA-B	Screen	124/5	-CCU-10 : Screen to Frame		124/4	-CCU-8 : Screen to Frame		124/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WNET-A	1	85/4	-CCU-7.J65 : A	Net A	85/3	-CCU-9.J65 : A	Net A	85/4	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-A	2	85/4	-CCU-7.J65 : B		85/3	-CCU-9.J65 : B		85/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-A	Screen	85/4	-CCU-7 : Screen to Frame		85/3	-CCU-9 : Screen to Frame		85/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	1	95/5	-CCU-11.J66 : A	Net B	95/6	-CCU-9.J66 : A	Net B	95/4	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	2	95/5	-CCU-11.J66 : B		95/6	-CCU-9.J66 : B		95/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WNET-B	Screen	95/5	-CCU-11 : Screen to Frame		95/6	-CCU-9 : Screen to Frame		95/5	1x2x0.75mm²	EN700AF 0107
-CCU-9-WTSA-A	1	112/5	-CCU-7.J40...J43 : B	ID 4002-A	112/2	-CCU-9.J40...J43 : B	ID 4002-A	112/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	2	112/5	-CCU-7.J40...J43 : C		112/2	-CCU-9.J40...J43 : C		112/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	3	112/5	-CCU-7.J40...J43 : B	ID 4001-A	112/1	-CCU-9.J40...J43 : B	ID 4001-A	112/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	4	112/5	-CCU-7.J40...J43 : C		112/2	-CCU-9.J40...J43 : C		112/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	5	112/5	-CCU-7.J40...J43 : B	ID 4004-A	112/4	-CCU-9.J40...J43 : B	ID 4004-A	112/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	6	112/5	-CCU-7.J40...J43 : C		112/4	-CCU-9.J40...J43 : C		112/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	7	112/5	-CCU-7.J40...J43 : B	ID 4003-A	112/3	-CCU-9.J40...J43 : B	ID 4003-A	112/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	8	112/5	-CCU-7.J40...J43 : C		112/3	-CCU-9.J40...J43 : C		112/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-A	Screen	112/5	-CCU-7 : Screen to Frame		112/4	-CCU-9 : Screen to Frame		112/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	1	122/5	-CCU-7.J44....J47 : B	ID 4002-B	122/2	-CCU-9.J44...J47 : B	ID 4002-B	122/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	2	122/5	-CCU-7.J44....J47 : C		122/2	-CCU-9.J44...J47 : C		122/6	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	3	122/5	-CCU-7.J44....J47 : B	ID 4001-B	122/1	-CCU-9.J44...J47 : B	ID 4001-B	122/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	4	122/5	-CCU-7.J44....J47 : C		122/2	-CCU-9.J44...J47 : C		122/5	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	5	122/5	-CCU-7.J44....J47 : B	ID 4004-B	122/4	-CCU-9.J44...J47 : B	ID 4004-B	122/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	6	122/5	-CCU-7.J44....J47 : C		122/4	-CCU-9.J44...J47 : C		122/8	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	7	122/5	-CCU-7.J44....J47 : B	ID 4003-B	122/3	-CCU-9.J44...J47 : B	ID 4003-B	122/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	8	122/5	-CCU-7.J44....J47 : C		122/3	-CCU-9.J44...J47 : C		122/7	4x2x0.75mm²	EN700AA 0407
-CCU-9-WTSA-B	Screen	122/5	-CCU-7 : Screen to Frame		122/4	-CCU-9 : Screen to Frame		122/8	4x2x0.75mm²	EN700AA 0407
-CCU-10-WNET-A	1	86/4	-CCU-12.J65 : A	Net A	86/3	-CCU-10.J65 : A	Net A	86/4	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-A	2	86/4	-CCU-12.J65 : B		86/3	-CCU-10.J65 : B		86/5	1x2x0.75mm²	EN700AF 0107
-CCU-10-WNET-A	Screen	86/4	-CCU-12 : Screen to Frame		86/3	-CCU-10 : Screen to Frame		86/5	1x2x0.75mm²	EN700AF 0107

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:					Projection:	Page No.:	
		A3	ME ECS 5-12 CYL						206(241)	
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					7B4200		ENGINE CONTROL		5561674-4	
					Final User Info. No.:		Final User Description:		Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-CCU-10-WNET-B	1	96/5	-CCU-8.J66 : A	Net B	96/6	-CCU-10.J66 : A	Net B	96/4	1x2x0.75mm ²	EN700AF 0107
-CCU-10-WNET-B	2	96/5	-CCU-8.J66 : B		96/6	-CCU-10.J66 : B		96/5	1x2x0.75mm ²	EN700AF 0107
-CCU-10-WNET-B	Screen	96/5	-CCU-8 : Screen to Frame		96/6	-CCU-10 : Screen to Frame		96/5	1x2x0.75mm ²	EN700AF 0107
-CCU-10-WTSA-A	1	114/1	-CCU-12.J40...J43 : B	ID 4002-A	113/6	-CCU-10.J40...J43 : B	ID 4002-A	114/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	2	114/1	-CCU-12.J40...J43 : C		113/6	-CCU-10.J40...J43 : C		114/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	3	114/1	-CCU-12.J40...J43 : B	ID 4001-A	113/5	-CCU-10.J40...J43 : B	ID 4001-A	114/1	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	4	114/1	-CCU-12.J40...J43 : C		113/5	-CCU-10.J40...J43 : C		114/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	5	114/1	-CCU-12.J40...J43 : B	ID 4004-A	113/7	-CCU-10.J40...J43 : B	ID 4004-A	114/4	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	6	114/1	-CCU-12.J40...J43 : C		113/8	-CCU-10.J40...J43 : C		114/4	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	7	114/1	-CCU-12.J40...J43 : B	ID 4003-A	113/7	-CCU-10.J40...J43 : B	ID 4003-A	114/3	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	8	114/1	-CCU-12.J40...J43 : C		113/7	-CCU-10.J40...J43 : C		114/3	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-A	Screen	114/1	-CCU-12 : Screen to Frame		113/8	-CCU-10 : Screen to Frame		114/4	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	1	124/1	-CCU-12.J44...J47 : B	ID 4002-B	123/6	-CCU-10.J44...J47 : B	ID 4002-B	124/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	2	124/1	-CCU-12.J44...J47 : C		123/6	-CCU-10.J44...J47 : C		124/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	3	124/1	-CCU-12.J44...J47 : B	ID 4001-B	123/5	-CCU-10.J44...J47 : B	ID 4001-B	124/1	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	4	124/1	-CCU-12.J44...J47 : C		123/5	-CCU-10.J44...J47 : C		124/2	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	5	124/1	-CCU-12.J44...J47 : B	ID 4004-B	123/7	-CCU-10.J44...J47 : B	ID 4004-B	124/4	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	6	124/1	-CCU-12.J44...J47 : C		123/8	-CCU-10.J44...J47 : C		124/4	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	7	124/1	-CCU-12.J44...J47 : B	ID 4003-B	123/7	-CCU-10.J44...J47 : B	ID 4003-B	124/3	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	8	124/1	-CCU-12.J44...J47 : C		123/7	-CCU-10.J44...J47 : C		124/3	4x2x0.75mm ²	EN700AA 0407
-CCU-10-WTSA-B	Screen	124/1	-CCU-12 : Screen to Frame		123/8	-CCU-10 : Screen to Frame		124/4	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WNET-A	1	85/5	-CCU-9.J65 : A	Net A	85/4	-CCU-11.J65 : A	Net A	85/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WNET-A	2	85/5	-CCU-9.J65 : B		85/5	-CCU-11.J65 : B		85/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WNET-A	Screen	85/5	-CCU-9 : Screen to Frame		85/5	-CCU-11 : Screen to Frame		85/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WNET-B	1	95/7	-CWCU.J65 : A	Line B	92/3	-CCU-11.J66 : A	Net B	95/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WNET-B	2	95/7	-CWCU.J65 : B		92/3	-CCU-11.J66 : B		95/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WNET-B	Screen	95/7	-CWCU.J65 : C		92/3	-CCU-11 : Screen to Frame		95/6	1x2x0.75mm ²	EN700AF 0107
-CCU-11-WTSA-A	1	113/1	-CCU-9.J40...J43 : B	ID 4002-A	112/6	-CCU-11.J40...J43 : B	ID 4002-A	113/2	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	2	113/1	-CCU-9.J40...J43 : C		112/6	-CCU-11.J40...J43 : C		113/2	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	3	113/1	-CCU-9.J40...J43 : B	ID 4001-A	112/5	-CCU-11.J40...J43 : B	ID 4001-A	113/1	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	4	113/1	-CCU-9.J40...J43 : C		112/5	-CCU-11.J40...J43 : C		113/2	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	5	113/1	-CCU-9.J40...J43 : B	ID 4004-A	112/7	-CCU-11.J40...J43 : B	ID 4004-A	113/4	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	6	113/1	-CCU-9.J40...J43 : C		112/8	-CCU-11.J40...J43 : C		113/4	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	7	113/1	-CCU-9.J40...J43 : B	ID 4003-A	112/7	-CCU-11.J40...J43 : B	ID 4003-A	113/3	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	8	113/1	-CCU-9.J40...J43 : C		112/7	-CCU-11.J40...J43 : C		113/3	4x2x0.75mm ²	EN700AA 0407
-CCU-11-WTSA-A	Screen	113/1	-CCU-9 : Screen to Frame		112/8	-CCU-11 : Screen to Frame		113/4	4x2x0.75mm ²	EN700AA 0407

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL					Item Id.: 5561674-4		
	Final User Info. No.:		Final User Description:					Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.	
-CCU-11-WTSA-B	1	123/1	-CCU-9.J44...J47 : B	ID 4002-B	122/6	-CCU-11.J44....J47 : B	ID 4002-B 123/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	2	123/1	-CCU-9.J44...J47 : C		122/6	-CCU-11.J44....J47 : C	123/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	3	123/1	-CCU-9.J44...J47 : B	ID 4001-B	122/5	-CCU-11.J44....J47 : B	ID 4001-B 123/1	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	4	123/1	-CCU-9.J44...J47 : C		122/5	-CCU-11.J44....J47 : C	123/2	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	5	123/1	-CCU-9.J44...J47 : B	ID 4004-B	122/7	-CCU-11.J44....J47 : B	ID 4004-B 123/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	6	123/1	-CCU-9.J44...J47 : C		122/8	-CCU-11.J44....J47 : C	123/4	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	7	123/1	-CCU-9.J44...J47 : B	ID 4003-B	122/7	-CCU-11.J44....J47 : B	ID 4003-B 123/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	8	123/1	-CCU-9.J44...J47 : C		122/7	-CCU-11.J44....J47 : C	123/3	4x2x0.75mm²	EN700AA 0407
-CCU-11-WTSA-B	Screen	123/1	-CCU-9 : Screen to Frame		122/8	-CCU-11 : Screen to Frame	123/4	4x2x0.75mm²	EN700AA 0407
-CCU-12-WNET-A	1	86/2	-EICU-B-XNET-A : 4		82/8	-CCU-12.J65 : A	Net A 86/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-A	2	86/2	-EICU-B-XNET-A : 5		82/8	-CCU-12.J65 : B	86/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-A	Screen	86/2	-EC-MOP A : Screen in Frame		81/6	-CCU-12 : Screen to Frame	86/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	1	96/4	-CCU-10.J66 : A	Net B	96/4	-CCU-12.J66 : A	Net B 96/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	2	96/4	-CCU-10.J66 : B		96/5	-CCU-12.J66 : B	96/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WNET-B	Screen	96/4	-CCU-10 : Screen to Frame		96/5	-CCU-12 : Screen to Frame	96/3	1x2x0.75mm²	EN700AF 0107
-CCU-12-WTSA-A	1	113/5	-CCU-11.J40...J43 : B	ID 4002-A	113/2	-CCU-12.J40...J43 : B	ID 4002-A 113/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	2	113/5	-CCU-11.J40...J43 : C		113/2	-CCU-12.J40...J43 : C	113/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	3	113/5	-CCU-11.J40...J43 : B	ID 4001-A	113/1	-CCU-12.J40...J43 : B	ID 4001-A 113/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	4	113/5	-CCU-11.J40...J43 : C		113/2	-CCU-12.J40...J43 : C	113/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	5	113/5	-CCU-11.J40...J43 : B	ID 4004-A	113/4	-CCU-12.J40...J43 : B	ID 4004-A 113/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	6	113/5	-CCU-11.J40...J43 : C		113/4	-CCU-12.J40...J43 : C	113/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	7	113/5	-CCU-11.J40...J43 : B	ID 4003-A	113/3	-CCU-12.J40...J43 : B	ID 4003-A 113/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	8	113/5	-CCU-11.J40...J43 : C		113/3	-CCU-12.J40...J43 : C	113/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-A	Screen	113/5	-CCU-11 : Screen to Frame		113/4	-CCU-12 : Screen to Frame	113/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	1	123/5	-CCU-11.J44....J47 : B	ID 4002-B	123/2	-CCU-12.J44...J47 : B	ID 4002-B 123/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	2	123/5	-CCU-11.J44....J47 : C		123/2	-CCU-12.J44...J47 : C	123/6	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	3	123/5	-CCU-11.J44....J47 : B	ID 4001-B	123/1	-CCU-12.J44...J47 : B	ID 4001-B 123/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	4	123/5	-CCU-11.J44....J47 : C		123/2	-CCU-12.J44...J47 : C	123/5	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	5	123/5	-CCU-11.J44....J47 : B	ID 4004-B	123/4	-CCU-12.J44...J47 : B	ID 4004-B 123/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	6	123/5	-CCU-11.J44....J47 : C		123/4	-CCU-12.J44...J47 : C	123/8	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	7	123/5	-CCU-11.J44....J47 : B	ID 4003-B	123/3	-CCU-12.J44...J47 : B	ID 4003-B 123/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	8	123/5	-CCU-11.J44....J47 : C		123/3	-CCU-12.J44...J47 : C	123/7	4x2x0.75mm²	EN700AA 0407
-CCU-12-WTSA-B	Screen	123/5	-CCU-11 : Screen to Frame		123/4	-CCU-12 : Screen to Frame	123/8	4x2x0.75mm²	EN700AA 0407
-ECU-A-WHPS_D	1	35/1	ECC-1-XHPS1 : 45		35/1	-ECU-A.J81 : B	35/2	2x0.75mm²	EN700AC 0207
-ECU-A-WHPS_D	2	35/1	ECC-1-XHPS1 : 46		35/1	-ECU-A.J08 : A	35/1	2x0.75mm²	EN700AC 0207
-ECU-A-WHPS_D	Screen	35/1	ECC-1 : EMC to Busbar		35/1	-ECU-A : EMC to Busbar	35/1	2x0.75mm²	EN700AC 0207

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL						Item Id.: 5561674-4	
Final User Info. No.:		Final User Description:						Final User Ident. No.:		



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-ECU-A-WNET-A	1	83/4	-ACU-1.J65 : ALine A	83/3	-ECU-A.J65 : ALine A	83/4	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WNET-A	2	83/4	-ACU-1.J65 : B	83/3	-ECU-A.J65 : B	83/5	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WNET-A	Screen	83/4	-ACU-1.J65 : C	83/3	-ECU-A.J65 : C	83/5	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WNET-B	1	93/5	-ECU-B.J65 : ALine B	93/6	-ECU-A.J65 : ALine B	93/4	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WNET-B	2	93/5	-ECU-B.J65 : B	93/6	-ECU-A.J65 : B	93/5	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WNET-B	Screen	93/5	-ECU-B.J65 : C	93/6	-ECU-A.J65 : C	93/5	1x2x0.75mm ²	EN700AF 0107
-ECU-A-WTSA-B	1	120/5	-ECU-B.J45 : B	120/2	-ECU-A.J45 : B	120/6	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	2	120/5	-ECU-B.J45 : C	120/2	-ECU-A.J45 : C	120/6	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	3	120/5	-ECU-B.J44 : B	120/1	-ECU-A.J44 : B	120/5	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	4	120/5	-ECU-B.J44 : C	120/2	-ECU-A.J44 : C	120/5	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	5	120/5	-ECU-B.J47 : B	120/4	-ECU-A.J47 : B	120/7	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	6	120/5	-ECU-B.J47 : C	120/4	-ECU-A.J47 : C	120/8	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	7	120/5	-ECU-B.J46 : B	120/3	-ECU-A.J46 : B	120/7	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	8	120/5	-ECU-B.J46 : C	120/3	-ECU-A.J46 : C	120/7	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WTSA-B	Screen	120/5	-ECU-A-WTSA-B : Separately isolated	120/5	-ECU-A-WTSA-B : Separately isolated	120/5	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX1TSA-A	1	110/1	ECC-1-X1TSA-A : 1	109/8	-ECU-A.J40 : AID 4001-A	110/1	2x2,5mm ²	EN700AC 0225
-ECU-A-WX1TSA-A	2	110/1	ECC-1-X1TSA-A : 2	109/8	-ECU-A.J40 : D	110/2	2x2,5mm ²	EN700AC 0225
-ECU-A-WX1TSA-A	Screen	110/1	ECC-1 : Screen to EMC Busbar	109/8	-ECU-A-WX1TSA-A : Separately isolated	110/1	2x2,5mm ²	EN700AC 0225
-ECU-A-WX2TSA-A	1	110/1	ECC-1-X2TSA-A : 1	109/8	-ECU-A.J41 : B	110/2	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	2	110/1	ECC-1-X2TSA-A : 2	109/8	-ECU-A.J41 : C	110/2	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	3	110/1	ECC-1-X2TSA-A : 3	109/8	-ECU-A.J40 : B	110/1	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	4	110/1	ECC-1-X2TSA-A : 4	109/8	-ECU-A.J40 : C	110/2	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	5	110/1	ECC-1-X2TSA-A : 5	109/8	-ECU-A.J43 : B	110/4	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	6	110/1	ECC-1-X2TSA-A : 6	109/8	-ECU-A.J43 : C	110/4	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	7	110/1	ECC-1-X2TSA-A : 7	109/8	-ECU-A.J42 : B	110/3	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	8	110/1	ECC-1-X2TSA-A : 8	109/8	-ECU-A.J42 : C	110/3	4x2x0.75mm ²	EN700AA 0407
-ECU-A-WX2TSA-A	Screen	110/1	ECC-1 : Screen to EMC Busbar	109/8	-ECU-A-WX2TSA-A : Separately isolated	110/1	4x2x0.75mm ²	EN700AA 0407
-ECU-B-WHPS_D	1	35/6	ECC-1-XHPS1 : 47	35/6	-ECU-B.J81 : B	35/7	2x0.75mm²	EN700AC 0207
-ECU-B-WHPS_D	2	35/6	ECC-1-XHPS1 : 48	35/6	-ECU-B.J08 : A	35/6	2x0.75mm²	EN700AC 0207
-ECU-B-WHPS_D	Screen	35/6	ECC-1 : EMC to Busbar	35/6	-ECU-B : EMC to Busbar	35/6	2x0.75mm²	EN700AC 0207
-ECU-B-WNET-A	1	83/5	-ECU-A.J65 : ALine A	83/4	-ECU-B.J65 : ALine A	83/6	1x2x0.75mm ²	EN700AF 0107
-ECU-B-WNET-A	2	83/5	-ECU-A.J65 : B	83/5	-ECU-B.J65 : B	83/6	1x2x0.75mm ²	EN700AF 0107
-ECU-B-WNET-A	Screen	83/5	-ECU-A.J65 : C	83/5	-ECU-B.J65 : C	83/6	1x2x0.75mm ²	EN700AF 0107

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:					Projection:	Page No.:	
		A3	ME ECS 5-12 CYL						209(241)	
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				7B4200		ENGINE CONTROL			5561674-4	
				Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.		
-ECU-B-WNET-B	1	93/7	-CWCU.J65 : A	Line B	92/3	-ECU-B.J65 : A	Line B	93/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-B	2	93/7	-CWCU.J65 : B		92/3	-ECU-B.J65 : B		93/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WNET-B	Screen	93/7	-CWCU.J65 : C		92/3	-ECU-B.J65 : C		93/6	1x2x0.75mm²	EN700AF 0107
-ECU-B-WTSA-A	1	110/5	-ECU-A.J41 : B		110/2	-ECU-B.J41 : B		110/6	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	2	110/5	-ECU-A.J41 : C		110/2	-ECU-B.J41 : C		110/6	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	3	110/5	-ECU-A.J40 : B		110/1	-ECU-B.J40 : B		110/5	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	4	110/5	-ECU-A.J40 : C		110/2	-ECU-B.J40 : C		110/5	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	5	110/5	-ECU-A.J43 : B		110/4	-ECU-B.J43 : B		110/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	6	110/5	-ECU-A.J43 : C		110/4	-ECU-B.J43 : C		110/8	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	7	110/5	-ECU-A.J42 : B		110/3	-ECU-B.J42 : B		110/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	8	110/5	-ECU-A.J42 : C		110/3	-ECU-B.J42 : C		110/7	4x2x0.75mm²	EN700AA 0407
-ECU-B-WTSA-A	Screen	110/5	-ECU-B-WTSA-A : Separately isolated		110/5	-ECU-B-WTSA-A : Separately isolated		110/5	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX1TSA-B	1	120/1	ECC-1-X1TSA-B : 1		119/8	-ECU-B.J44 : A	ID 4001-B	120/1	2x2,5mm²	EN700AC 0225
-ECU-B-WX1TSA-B	2	120/1	ECC-1-X1TSA-B : 2		119/8	-ECU-B.J44 : D		120/2	2x2,5mm²	EN700AC 0225
-ECU-B-WX1TSA-B	Screen	120/1	ECC-1 : Screen to EMC Busbar		119/8	-ECU-B-WX1TSA-B : Separately isolated		120/1	2x2,5mm²	EN700AC 0225
-ECU-B-WX2TSA-B	1	120/1	ECC-1-X2TSA-B : 1		119/8	-ECU-B.J45 : B		120/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	2	120/1	ECC-1-X2TSA-B : 2		119/8	-ECU-B.J45 : C		120/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	3	120/1	ECC-1-X2TSA-B : 3		119/8	-ECU-B.J44 : B		120/1	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	4	120/1	ECC-1-X2TSA-B : 4		119/8	-ECU-B.J44 : C		120/2	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	5	120/1	ECC-1-X2TSA-B : 5		119/8	-ECU-B.J47 : B		120/4	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	6	120/1	ECC-1-X2TSA-B : 6		119/8	-ECU-B.J47 : C		120/4	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	7	120/1	ECC-1-X2TSA-B : 7		119/8	-ECU-B.J46 : B		120/3	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	8	120/1	ECC-1-X2TSA-B : 8		119/8	-ECU-B.J46 : C		120/3	4x2x0.75mm²	EN700AA 0407
-ECU-B-WX2TSA-B	Screen	120/1	ECC-1 : Screen to EMC Busbar		119/8	-ECU-B-WX2TSA-B : Separately isolated		120/1	4x2x0.75mm²	EN700AA 0407
-EICU-A --> B-WNET-A	1	82/5	-EICU-A-XNET-A : 3		82/4	-EICU-B-XNET-A : 1		82/5	1x2x0.75mm²	EN700AF 0107
-EICU-A --> B-WNET-A	2	82/5	-EICU-A-XNET-A : 4		82/4	-EICU-B-XNET-A : 2		82/5	1x2x0.75mm²	EN700AF 0107
-EICU-A --> B-WNET-A	Screen	82/5	-EICU-A-XNET-A : S		82/4	-EICU-B-XNET-A : S		82/5	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-A	1	82/2	-EICU-A-XNET-A : 1		82/1	-EICU-A.J65 : A	Line A	82/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-A	2	82/2	-EICU-A-XNET-A : 2		82/1	-EICU-A.J65 : B		82/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-A	Screen	82/2	-EICU-A-XNET-A : S		82/1	-EICU-A.J65 : C		82/3	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	1	91/6	-EICU-A-XNET-B : 1		91/5	-EICU-A.J65 : A	Line B	91/6	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	2	91/6	-EICU-A-XNET-B : 2		91/5	-EICU-A.J65 : B		91/6	1x2x0.75mm²	EN700AF 0107
-EICU-A-WNET-B	Screen	91/6	-EICU-A-XNET-B : S		91/5	-EICU-A.J65 : C		91/6	1x2x0.75mm²	EN700AF 0107

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
		Final User Info. No.:	Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.		
-EICU-A-WXNET-A	1	82/3	-EICU-A.J65 : A	Line A	82/3	-EICU-A-XNET-A : 3	82/4	1x2x0.75mm²	EN700AF 0107	
-EICU-A-WXNET-A	2	82/3	-EICU-A.J65 : B		82/3	-EICU-A-XNET-A : 4	82/4	1x2x0.75mm²	EN700AF 0107	
-EICU-A-WXNET-A	Screen	82/3	-EICU-A.J65 : C		82/3	-EICU-A-XNET-A : S	82/4	1x2x0.75mm²	EN700AF 0107	
-EICU-A-WXNET-B	1	91/7	-EICU-A.J65 : A	Line B	91/6	-EICU-A-XNET-B : 4	91/8	1x2x0.75mm²	EN700AF 0107	
-EICU-A-WXNET-B	2	91/7	-EICU-A.J65 : B		91/6	-EICU-A-XNET-B : 5	91/8	1x2x0.75mm²	EN700AF 0107	
-EICU-A-WXNET-B	Screen	91/7	-EICU-A.J65 : C		91/6	-EICU-A-XNET-B : 6	91/8	1x2x0.75mm²	EN700AF 0107	
-EICU-B --> A-WNET-B	1	91/5	-EICU-B-XNET-B : 3		91/4	-EICU-A-XNET-B : 1	91/5	1x2x0.75mm²	EN700AF 0107	
-EICU-B --> A-WNET-B	2	91/5	-EICU-B-XNET-B : 4		91/4	-EICU-A-XNET-B : 2	91/5	1x2x0.75mm²	EN700AF 0107	
-EICU-B --> A-WNET-B	Screen	91/5	-EICU-B-XNET-B : S		91/4	-EICU-A-XNET-B : S	91/5	1x2x0.75mm²	EN700AF 0107	
-EICU-B-WNET-A	1	82/6	-EICU-B-XNET-A : 1		82/5	-EICU-B.J65 : A	Line A	82/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-A	2	82/6	-EICU-B-XNET-A : 2		82/5	-EICU-B.J65 : B		82/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-A	Screen	82/6	-EICU-B-XNET-A : S		82/5	-EICU-B.J65 : C		82/6	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	1	91/2	-EICU-B-XNET-B : 1		91/1	-EICU-B.J65 : A	Line B	91/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	2	91/2	-EICU-B-XNET-B : 2		91/1	-EICU-B.J65 : B		91/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WNET-B	Screen	91/2	-EICU-B-XNET-B : 3		91/1	-EICU-B.J65 : C		91/3	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-A	1	82/7	-EICU-B.J65 : A	Line A	82/6	-EICU-B-XNET-A : 4		82/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-A	2	82/7	-EICU-B.J65 : B		82/6	-EICU-B-XNET-A : 5		82/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-A	Screen	82/7	-EICU-B.J65 : C		82/6	-EICU-B-XNET-A : 6		82/8	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	1	91/3	-EICU-B.J65 : A	Line B	91/3	-EICU-B-XNET-B : 3		91/4	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	2	91/3	-EICU-B.J65 : B		91/3	-EICU-B-XNET-B : 4		91/4	1x2x0.75mm²	EN700AF 0107
-EICU-B-WXNET-B	Screen	91/3	-EICU-B.J65 : C		91/3	-EICU-B-XNET-B : S		91/4	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	1	84/2	-EICU-B-XNET-A : 4		82/8	-SCU.J65 : A	Line A	84/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	2	84/2	-EICU-B-XNET-A : 5		82/8	-SCU.J65 : B		84/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-A	Screen	84/2	-EC-MOP A : Screen in Frame		81/6	-SCU.J65 : C		84/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	1	94/4	-ACU-3.J65 : A	Line B	94/4	-SCU.J65 : A	Line B	94/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	2	94/4	-ACU-3.J65 : B		94/5	-SCU.J65 : B		94/3	1x2x0.75mm²	EN700AF 0107
-SCU-WNET-B	Screen	94/4	-ACU-3.J65 : C		94/5	-SCU.J65 : C		94/3	1x2x0.75mm²	EN700AF 0107
-TSA-A-W1	1	109/7	ECC-1-X1TSA-A : 1		109/8	-TSA-A : A	J5	109/7	2x2,5mm²	EN700AC 0225
-TSA-A-W1	2	109/7	ECC-1-X1TSA-A : 2		109/8	-TSA-A : J	J5	109/7	2x2,5mm²	EN700AC 0225
-TSA-A-W1	Screen	109/7	ECC-1 : Screen to EMC Busbar		109/8	-TSA-A : Screen in gland		109/7	2x2,5mm²	EN700AC 0225

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
		Scale:	Size:	Product Type:			Projection:	Page No.:	
			A3	ME ECS 5-12 CYL				211(241)	
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		7B4200		ENGINE CONTROL				5561674-4	
		Final User Info. No.:		Final User Description:				Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-TSA-A-W2	1	109/7	ECC-1-X2TSA-A : 1		109/8	-TSA-A : B	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	2	109/7	ECC-1-X2TSA-A : 2		109/8	-TSA-A : C	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	3	109/7	ECC-1-X2TSA-A : 3		109/8	-TSA-A : D	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	4	109/7	ECC-1-X2TSA-A : 4		109/8	-TSA-A : E	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	5	109/7	ECC-1-X2TSA-A : 5		109/8	-TSA-A : F	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	6	109/7	ECC-1-X2TSA-A : 6		109/8	-TSA-A : G	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	7	109/7	ECC-1-X2TSA-A : 7		109/8	-TSA-A : H	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	8	109/7	ECC-1-X2TSA-A : 8		109/8	-TSA-A : I	J5	109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-W2	Screen	109/7	ECC-1 : Screen to EMC Busbar		109/8	-TSA-A : Screen in gland		109/7	4x2x0.75mm²	EN700AA 0407
-TSA-A-WENC-A	1(1)	109/5	-TSA-A : C	J3	109/5	-TSA-A-ENC A : C		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	2(1)	109/5	-TSA-A : B	J3	109/5	-TSA-A-ENC A : B		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	3(2)	109/5	-TSA-A : Separately isolated		109/5	-TSA-A-ENC A : F		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	4(2)	109/5	-TSA-A : Separately isolated		109/5	-TSA-A-ENC A : E		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	5(3)	109/5	-TSA-A : C	J1	109/5	-TSA-A-ENC A : J		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	6(3)	109/5	-TSA-A : B	J1	109/5	-TSA-A-ENC A : H		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	7(4)	109/5	-TSA-A : C	J2	109/5	-TSA-A-ENC A : M		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	8(4)	109/5	-TSA-A : B	J2	109/5	-TSA-A-ENC A : L		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	9(5)	109/5	-TSA-A : D	J1	109/5	-TSA-A-ENC A : P		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	10(5)	109/5	-TSA-A : A	J1	109/5	-TSA-A-ENC A : R		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WENC-A	Screen	109/5	-TSA-A : Screen in gland		109/6	-TSA-A-ENC A : Screen in gland		109/4	5x2x0,5mm²	EN700AA0505
-TSA-A-WMSA	1	109/5	-TSA-A : B	J4	109/5	-MSA-X1 : 2		109/4	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	2	109/5	-TSA-A : C	J4	109/5	-MSA-X1 : 3		109/4	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	3	109/5	-TSA-A : D	J4	109/5	-MSA-X1 : 1		109/4	3x0,75mm²	EN700AC 0307
-TSA-A-WMSA	Screen	109/5	-TSA-A : Screen in gland		109/6	-MSA : Screen in gland		109/5	3x0,75mm²	EN700AC 0307
-TSA-B-W1	1	119/7	ECC-1-X1TSA-B : 1		119/8	-TSA-B : A	J5	119/7	2x2,5mm²	EN700AC 0225
-TSA-B-W1	2	119/7	ECC-1-X1TSA-B : 2		119/8	-TSA-B : J	J5	119/7	2x2,5mm²	EN700AC 0225
-TSA-B-W1	Screen	119/7	ECC-1 : Screen to EMC Busbar		119/8	-TSA-B : Screen in gland		119/7	2x2,5mm²	EN700AC 0225
-TSA-B-W2	1	119/7	ECC-1-X2TSA-B : 1		119/8	-TSA-B : B	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	2	119/7	ECC-1-X2TSA-B : 2		119/8	-TSA-B : C	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	3	119/7	ECC-1-X2TSA-B : 3		119/8	-TSA-B : D	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	4	119/7	ECC-1-X2TSA-B : 4		119/8	-TSA-B : E	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	5	119/7	ECC-1-X2TSA-B : 5		119/8	-TSA-B : F	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	6	119/7	ECC-1-X2TSA-B : 6		119/8	-TSA-B : G	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	7	119/7	ECC-1-X2TSA-B : 7		119/8	-TSA-B : H	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	8	119/7	ECC-1-X2TSA-B : 8		119/8	-TSA-B : I	J5	119/7	4x2x0.75mm²	EN700AA 0407
-TSA-B-W2	Screen	119/7	ECC-1 : Screen to EMC Busbar		119/8	-TSA-B : Screen in gland		119/7	4x2x0.75mm²	EN700AA 0407

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 212(241)	
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			Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-TSA-B-WENC-B	1(1)	119/5	-TSA-B : C	J3	119/6	-TSA-B-ENC B : C		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	2(1)	119/5	-TSA-B : B	J3	119/6	-TSA-B-ENC B : B		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	3(2)	119/5	-TSA-B : C	J4	119/6	-TSA-B-ENC B : F		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	4(2)	119/5	-TSA-B : B	J4	119/6	-TSA-B-ENC B : E		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	5(3)	119/5	-TSA-B : C	J1	119/6	-TSA-B-ENC B : J		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	6(3)	119/5	-TSA-B : B	J1	119/6	-TSA-B-ENC B : H		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	7(4)	119/5	-TSA-B : C	J2	119/6	-TSA-B-ENC B : M		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	8(4)	119/5	-TSA-B : B	J2	119/6	-TSA-B-ENC B : L		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	9(5)	119/5	-TSA-B : D	J1	119/6	-TSA-B-ENC B : P		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	10(5)	119/5	-TSA-B : A	J1	119/6	-TSA-B-ENC B : R		119/4	5x2x0,5mm²	EN700AA0505
-TSA-B-WENC-B	Screen	119/5	-TSA-B : Screen in gland		119/6	-TSA-B-ENC B : Screen in gland		119/4	5x2x0,5mm²	EN700AA0505
-W1110-A	1	14/2	-ACU-1.J22 : C		14/2	-ZS 1110-A : 13		14/2	5x0.75mm²	EN700AC 0507
-W1110-A	2	14/2	-ACU-1.J22 : D		14/2	-ZS 1110-A : 14		14/2	5x0.75mm²	EN700AC 0507
-W1110-A	3	15/2	-ACU-1.J23 : C		15/2	-ZS 1109-A : 21		15/2	5x0.75mm²	EN700AC 0507
-W1110-A	4	15/2	-ACU-1.J23 : D		15/2	-ZS 1109-A : 22		15/2	5x0.75mm²	EN700AC 0507
-W1110-A	Screen	15/2	ECC-1 : EMC to Busbar		15/2	-ZS 1109-A : Screen		15/2	5x0.75mm²	EN700AC 0507
-W1110-B	1	14/7	-ACU-2.J22 : C		14/7	-ZS 1110-B : 43		14/7	5x0.75mm²	EN700AC 0507
-W1110-B	2	14/7	-ACU-2.J22 : D		14/7	-ZS 1110-B : 44		14/7	5x0.75mm²	EN700AC 0507
-W1110-B	3	15/7	-ACU-2.J23 : C		15/7	-ZS 1109-B : 31		15/7	5x0.75mm²	EN700AC 0507
-W1110-B	4	15/7	-ACU-2.J23 : D		15/7	-ZS 1109-B : 32		15/7	5x0.75mm²	EN700AC 0507
-W1110-B	Screen	15/7	ECC-1 : EMC to Busbar		15/7	-ZS 1109-B : Screen		15/7	5x0.75mm²	EN700AC 0507
-W1111-A	1	19/2	-ACU-1.J21 : C		19/2	-ZS 1111-A : NC		19/2	2x0.75mm²	EN700AC 0207
-W1111-A	2	19/2	-ACU-1.J21 : D		19/2	-ZS 1111-A : NC		19/2	2x0.75mm²	EN700AC 0207
-W1111-A	Screen	19/2	ECC-1 : EMC to Busbar		19/2	-ZS 1111-A : Screen		19/2	2x0.75mm²	EN700AC 0207
-W1111-B	1	19/7	-ACU-2.J21 : C		19/7	-ZS 1111-B : NC		19/7	2x0.75mm²	EN700AC 0207
-W1111-B	2	19/7	-ACU-2.J21 : D		19/7	-ZS 1111-B : NC		19/7	2x0.75mm²	EN700AC 0207
-W1111-B	Screen	19/7	ECC-1 : EMC to Busbar		19/7	-ZS 1111-B : Screen		19/7	2x0.75mm²	EN700AC 0207
-W1112-A	1	18/2	-ACU-1.J24 : C		18/2	-ZS 1112-A : NO		18/2	2x0.75mm²	EN700AC 0207
-W1112-A	2	18/2	-ACU-1.J24 : D		18/2	-ZS 1112-A : NO		18/2	2x0.75mm²	EN700AC 0207
-W1112-A	Screen	18/2	ECC-1 : EMC to Busbar		18/2	-ZS 1112-A : Screen		18/2	2x0.75mm²	EN700AC 0207
-W1112-B	1	18/7	-ACU-2.J24 : C		18/7	-ZS 1112-B : NO		18/7	2x0.75mm²	EN700AC 0207
-W1112-B	2	18/7	-ACU-2.J24 : D		18/7	-ZS 1112-B : NO		18/7	2x0.75mm²	EN700AC 0207
-W1112-B	Screen	18/7	ECC-1 : EMC to Busbar		18/7	-ZS 1112-B : Screen		18/7	2x0.75mm²	EN700AC 0207

Cable list	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 213(241)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
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Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
-W1114	1	20/2	-ECU-A.J80 : B	20/3	-ZV 1114 : 1	20/2	2x0.75mm²	EN700AC 0207
-W1114	2	20/2	-ECU-A.J03 : A	20/2	-ZV 1114 : 2	20/2	2x0.75mm²	EN700AC 0207
-W1114	Screen	20/2	ECC-1 : EMC to Busbar	20/2	-ZV 1114 : Separately isolated	20/2	2x0.75mm²	EN700AC 0207
-W1116-A	1	17/2	-ACU-1.J25 : C	17/2	-ZS 1116-A : 13	17/2	2x0.75mm²	EN700AC 0207
-W1116-A	2	17/2	-ACU-1.J25 : D	17/2	-ZS 1116-A : 14	17/2	2x0.75mm²	EN700AC 0207
-W1116-A	Screen	17/2	ECC-1 : EMC to Busbar	17/2	-ZS 1116-A : Screen	17/2	2x0.75mm²	EN700AC 0207
-W1116-B	1	17/7	-ACU-2.J25 : C	17/7	-ZS 1116-B : 33	17/7	2x0.75mm²	EN700AC 0207
-W1116-B	2	17/7	-ACU-2.J25 : D	17/7	-ZS 1116-B : 34	17/7	2x0.75mm²	EN700AC 0207
-W1116-B	Screen	17/7	ECC-1 : EMC to Busbar	17/7	-ZS 1116-B : Screen	17/7	2x0.75mm²	EN700AC 0207
-W1117-A	1	16/2	-ECU-A.J32 : C	16/2	-ZS 1117-A : 13	16/2	2x0.75mm²	EN700AC 0207
-W1117-A	2	16/2	-ECU-A.J32 : D	16/2	-ZS 1117-A : 14	16/2	2x0.75mm²	EN700AC 0207
-W1117-A	Screen	16/2	ECC-1 : EMC to Busbar	16/2	-ZS 1117-A : Screen	16/2	2x0.75mm²	EN700AC 0207
-W1117-B	1	16/7	-ECU-B.J32 : C	16/7	-ZS 1117-B : 33	16/7	2x0.75mm²	EN700AC 0207
-W1117-B	2	16/7	-ECU-B.J32 : D	16/7	-ZS 1117-B : 34	16/7	2x0.75mm²	EN700AC 0207
-W1117-B	Screen	16/7	ECC-1 : EMC to Busbar	16/7	-ZS 1117-B : Screen	16/7	2x0.75mm²	EN700AC 0207
-W1121-A	1	21/2	-ECU-A.J82 : B	21/3	-ZV 1121-A : 1	21/2	2x0.75mm²	EN700AC 0207
-W1121-A	2	21/2	-ECU-A.J04 : A	21/2	-ZV 1121-A : 2	21/2	2x0.75mm²	EN700AC 0207
-W1121-A	Screen	21/2	ECC-1 : EMC to Busbar	21/2	-ZV 1121-A : Separately isolated	21/2	2x0.75mm²	EN700AC 0207
-W1121-B	1	21/7	-ECU-B.J82 : B	21/8	-ZV 1121-B : 1	21/7	2x0.75mm²	EN700AC 0207
-W1121-B	2	21/7	-ECU-B.J04 : A	21/7	-ZV 1121-B : 2	21/7	2x0.75mm²	EN700AC 0207
-W1121-B	Screen	21/7	ECC-1 : EMC to Busbar	21/7	-ZV 1121-B : Separately isolated	21/7	2x0.75mm²	EN700AC 0207
-W1201-1	1	31/6	HPS-XHPS : 11	1	-PT 1201-1 : 1	31/6	2x0.75mm²	EN700AC 0207
-W1201-1	2	31/6	HPS-XHPS : 12	2	-PT 1201-1 : 2	31/6	2x0.75mm²	EN700AC 0207
-W1201-1	Screen	31/6	HPS : Screen in gland	31/6	-PT 1201-1 : Separately isolated	31/6	2x0.75mm²	EN700AC 0207
-W1201-2	1	32/6	HPS-XHPS : 25	1	-PT 1201-2 : 1	32/6	2x0.75mm²	EN700AC 0207
-W1201-2	2	32/6	HPS-XHPS : 26	2	-PT 1201-2 : 2	32/6	2x0.75mm²	EN700AC 0207
-W1201-2	Screen	32/6	HPS : Screen in gland	32/6	-PT 1201-2 : Separately isolated	32/6	2x0.75mm²	EN700AC 0207
-W1201-3	1	33/6	HPS-XHPS : 39	1	-PT 1201-3 : 1	33/6	2x0.75mm²	EN700AC 0207
-W1201-3	2	33/6	HPS-XHPS : 40	2	-PT 1201-3 : 2	33/6	2x0.75mm²	EN700AC 0207
-W1201-3	Screen	33/6	HPS : Screen in gland	33/6	-PT 1201-3 : Separately isolated	33/6	2x0.75mm²	EN700AC 0207

Cable list	Date				Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
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	Info. No.: 7B4200				Item Name: ENGINE CONTROL				Item Id.: 5561674-4		
Final User Info. No.:				Final User Description:				Final User Ident. No.:			



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal	Page/Grid	Type	Part no.	
-W1202-A	1	36/2	HPS-XHPS	: 51	1	36/2	-ZV1202-A : +1	36/2	2x0.75mm ²	EN700AC 0207
-W1202-A	2	36/2	HPS-XHPS	: 52	2	36/2	-ZV1202-A : -2	36/2	2x0.75mm ²	EN700AC 0207
-W1202-A	Screen	36/2	HPS : Screen in gland		36/2	-ZV1202-A : PE	36/2	2x0.75mm ²	EN700AC 0207	
-W1202-B	1	36/7	HPS-XHPS	: 53	1	36/7	-ZV1202-B : +1	36/7	2x0.75mm ²	EN700AC 0207
-W1202-B	2	36/7	HPS-XHPS	: 54	2	36/7	-ZV1202-B : -2	36/7	2x0.75mm ²	EN700AC 0207
-W1202-B	Screen	36/7	HPS : Screen in gland		36/7	-ZV1202-B : PE	36/7	2x0.75mm ²	EN700AC 0207	
-W1204-1	1	31/8	HPS-XHPS	: 13	1	31/8	-PT 1204-1 : 1	31/8	2x0.75mm ²	EN700AC 0207
-W1204-1	2	31/8	HPS-XHPS	: 14	2	31/8	-PT 1204-1 : 2	31/8	2x0.75mm ²	EN700AC 0207
-W1204-1	Screen	31/8	HPS : Screen in gland		31/8	-PT 1204-1 : Separately isolated	31/8	2x0.75mm ²	EN700AC 0207	
-W1204-2	1	32/8	HPS-XHPS	: 27	1	32/8	-PT 1204-2 : 1	32/8	2x0.75mm ²	EN700AC 0207
-W1204-2	2	32/8	HPS-XHPS	: 28	2	32/8	-PT 1204-2 : 2	32/8	2x0.75mm ²	EN700AC 0207
-W1204-2	Screen	32/8	HPS : Screen in gland		32/8	-PT 1204-2 : Separately isolated	32/8	2x0.75mm ²	EN700AC 0207	
-W1204-3	1	33/8	HPS-XHPS	: 41	1	33/8	-PT 1204-3 : 1	33/8	2x0.75mm ²	EN700AC 0207
-W1204-3	2	33/8	HPS-XHPS	: 42	2	33/8	-PT 1204-3 : 2	33/8	2x0.75mm ²	EN700AC 0207
-W1204-3	Screen	33/8	HPS : Screen in gland		33/8	-PT 1204-3 : Separately isolated	33/8	2x0.75mm ²	EN700AC 0207	
-W1204-4	1	34/2	HPS-XHPS	: 43	1	34/2	-PT 1204-4 : 1	34/2	2x0.75mm ²	EN700AC 0207
-W1204-4	2	34/2	HPS-XHPS	: 44	2	34/2	-PT 1204-4 : 2	34/2	2x0.75mm ²	EN700AC 0207
-W1204-4	Screen	34/2	HPS : Screen in gland		34/2	-PT 1204-4 : Separately isolated	34/2	2x0.75mm ²	EN700AC 0207	
-W1204-5	1	34/7	HPS-XHPS	: 45	1	34/7	-PT 1204-5 : 1	34/7	2x0.75mm ²	EN700AC 0207
-W1204-5	2	34/7	HPS-XHPS	: 46	2	34/7	-PT 1204-5 : 2	34/7	2x0.75mm ²	EN700AC 0207
-W1204-5	Screen	34/7	HPS : Screen in gland		34/7	-PT 1204-5 : Separately isolated	34/7	2x0.75mm ²	EN700AC 0207	
-W1222-1	1	31/4	HPS-XHPS	: 7	1	31/4	-ZT 1222-1 : 1	31/4	5x0,75mm ²	Sensor cable tail
-W1222-1	2	31/4	HPS-XHPS	: 8	2	31/4	-ZT 1222-1 : 2	31/4	5x0,75mm ²	Sensor cable tail
-W1222-1	3	31/4	HPS-XHPS	: 9	3	31/4	-ZT 1222-1 : 3	31/4	5x0,75mm ²	Sensor cable tail
-W1222-1	4	31/4	HPS-XHPS	: 10	4	31/4	-ZT 1222-1 : 4	31/4	5x0,75mm ²	Sensor cable tail
-W1222-1	Screen	31/4	HPS : Screen in gland		31/4	-ZT 1222-1 : Screen	31/4	5x0,75mm ²	Sensor cable tail	
-W1222-2	1	32/4	HPS-XHPS	: 21	1	32/4	-ZT 1222-2 : 1	32/4	5x0,75mm ²	Sensor cable tail
-W1222-2	2	32/4	HPS-XHPS	: 22	2	32/4	-ZT 1222-2 : 2	32/4	5x0,75mm ²	Sensor cable tail
-W1222-2	3	32/4	HPS-XHPS	: 23	3	32/4	-ZT 1222-2 : 3	32/4	5x0,75mm ²	Sensor cable tail
-W1222-2	4	32/4	HPS-XHPS	: 24	4	32/4	-ZT 1222-2 : 4	32/4	5x0,75mm ²	Sensor cable tail
-W1222-2	Screen	32/4	HPS : Screen in gland		32/4	-ZT 1222-2 : Screen	32/4	5x0,75mm ²	Sensor cable tail	

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:					Projection:	Page No.:	
		A3	ME ECS 5-12 CYL						215(241)	
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	7B4200		ENGINE CONTROL					5561674-4		
	Final User Info. No.:		Final User Description:					Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.	
-W1222-3	1	33/4	HPS-XHPS	: 35	1	33/4	-ZT 1222-3	: 1	33/4	5x0,75mm²	Sensor cable tail
-W1222-3	2	33/4	HPS-XHPS	: 36	2	33/4	-ZT 1222-3	: 2	33/4	5x0,75mm²	Sensor cable tail
-W1222-3	3	33/4	HPS-XHPS	: 37	3	33/4	-ZT 1222-3	: 3	33/4	5x0,75mm²	Sensor cable tail
-W1222-3	4	33/4	HPS-XHPS	: 38	4	33/4	-ZT 1222-3	: 4	33/4	5x0,75mm²	Sensor cable tail
-W1222-3	Screen	33/4	HPS : Screen in gland			33/4	-ZT 1222-3 : Screen		33/4	5x0,75mm²	Sensor cable tail
-W1235	1	37/7	HPS-XHPS	: 59	1	37/7	-LS 1235	: 1	37/7	5x0.75mm²	EN700AC 0507
-W1235	2	37/7	HPS-XHPS	: 60	2	37/7	-LS 1235	: 2	37/7	5x0.75mm²	EN700AC 0507
-W1235	3	37/7	HPS-XHPS	: 61	3	37/7	-LS 1235	: 2	37/7	5x0.75mm²	EN700AC 0507
-W1235	4	37/7	HPS-XHPS	: 62	4	37/7	-LS 1235	: 4	37/7	5x0.75mm²	EN700AC 0507
-W1235	Screen	37/7	HPS : Screen in gland			37/7	-LS 1235 : Screen		37/7	5x0.75mm²	EN700AC 0507
-W1236	1	37/2	HPS-XHPS	: 55	1	37/2	-LS 1236	: 1	37/2	5x0.75mm²	EN700AC 0507
-W1236	2	37/2	HPS-XHPS	: 56	2	37/2	-LS 1236	: 2	37/2	5x0.75mm²	EN700AC 0507
-W1236	3	37/2	HPS-XHPS	: 57	3	37/2	-LS 1236	: 2	37/2	5x0.75mm²	EN700AC 0507
-W1236	4	37/2	HPS-XHPS	: 58	4	37/2	-LS 1236	: 4	37/2	5x0.75mm²	EN700AC 0507
-W1236	Screen	37/2	HPS : Screen in gland			37/2	-LS 1236 : Screen		37/2	5x0.75mm²	EN700AC 0507
-W1240-1	1	31/2	HPS-XHPS	: 1	1	31/1	-XC 1240-1	: 1	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	2	31/2	HPS-XHPS	: 2	2	31/1	-XC 1240-1	: 2	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	3	31/2	HPS-XHPS	: 3	3	31/2	-XC 1240-1	: 3	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	4	31/2	HPS-XHPS	: 4	4	31/2	-XC 1240-1	: 4	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	5	31/2	HPS-XHPS	: 5	5	31/2	-XC 1240-1	: 5	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	6	31/2	HPS-XHPS	: 6	6	31/2	-XC 1240-1	: 6	31/2	4x2x0.75mm²	Valve cable tail
-W1240-1	Screen	31/2	HPS : Screen in gland			31/3	-XC 1240-1 : Screen		31/3	4x2x0.75mm²	Valve cable tail
-W1240-2	1	32/2	HPS-XHPS	: 15	1	32/1	-XC 1240-2	: 1	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	2	32/2	HPS-XHPS	: 16	2	32/1	-XC 1240-2	: 2	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	3	32/2	HPS-XHPS	: 17	3	32/2	-XC 1240-2	: 3	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	4	32/2	HPS-XHPS	: 18	4	32/2	-XC 1240-2	: 4	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	5	32/2	HPS-XHPS	: 19	5	32/2	-XC 1240-2	: 5	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	6	32/2	HPS-XHPS	: 20	6	32/2	-XC 1240-2	: 6	32/2	4x2x0.75mm²	Valve cable tail
-W1240-2	Screen	32/2	HPS : Screen in gland			32/3	-XC 1240-2 : Screen		32/3	4x2x0.75mm²	Valve cable tail
-W1240-3	1	33/2	HPS-XHPS	: 29	1	33/1	-XC 1240-3	: 1	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	2	33/2	HPS-XHPS	: 30	2	33/1	-XC 1240-3	: 2	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	3	33/2	HPS-XHPS	: 31	3	33/2	-XC 1240-3	: 3	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	4	33/2	HPS-XHPS	: 32	4	33/2	-XC 1240-3	: 4	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	5	33/2	HPS-XHPS	: 33	5	33/2	-XC 1240-3	: 5	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	6	33/2	HPS-XHPS	: 34	6	33/2	-XC 1240-3	: 6	33/2	4x2x0.75mm²	Valve cable tail
-W1240-3	Screen	33/2	HPS : Screen in gland			33/3	-XC 1240-3 : Screen		33/3	4x2x0.75mm²	Valve cable tail

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					216(241)	
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		7B4200		ENGINE CONTROL				5561674-4	
		Final User Info. No.:		Final User Description:				Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-W1243-A	1	35/1	HPS-XHPS : 47	1	35/1	-ZV 1243-A : +1	35/1	35/1	2x0.75mm²	EN700AC 0207
-W1243-A	2	35/1	HPS-XHPS : 48	2	35/1	-ZV 1243-A : -2	35/1	35/1	2x0.75mm²	EN700AC 0207
-W1243-A	Screen	35/1	HPS : Screen in gland		35/1	-ZV 1243-A : PE	35/1	35/1	2x0.75mm²	EN700AC 0207
-W1243-B	1	35/6	HPS-XHPS : 49	1	35/6	-ZV 1243-B : +1	35/6	35/6	2x0.75mm²	EN700AC 0207
-W1243-B	2	35/6	HPS-XHPS : 50	2	35/6	-ZV 1243-B : -2	35/6	35/6	2x0.75mm²	EN700AC 0207
-W1243-B	Screen	35/6	HPS : Screen in gland		35/6	-ZV 1243-B : PE	35/6	35/6	2x0.75mm²	EN700AC 0207
-W2150.1-A	1	13/2	-ECU-A.J22 : C		13/2	-LT-XC 2151-A : 1	13/2	13/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	2	13/2	-ECU-A.J22 : D		13/2	-LT-XC 2151-A : 2	13/2	13/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	3	23/2	-ECU-A.J26 : A	ID 2150-A	23/2	-LT-XC 2150-A : 0V	23/2	23/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	4	23/2	-ECU-A.J26 : B		23/2	-LT-XC 2150-A : -mA	23/2	23/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	5	23/2	-ECU-A.J26 : C		23/2	-LT-XC 2150-A : +mA	23/2	23/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	6	23/2	-ECU-A.J26 : D		23/2	-LT-XC 2150-A : +24V	23/2	23/2	7x0.75mm²	EN700AC 0707
-W2150.1-A	Screen	23/2	ECC-1 : EMC to Busbar		23/2	-LT : Screen in gland	23/2	23/2	7x0.75mm²	EN700AC 0707
-W2150.1-B	1	13/7	-ECU-B.J22 : C		13/7	-LT-XC 2151-B : 1	13/7	13/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	2	13/7	-ECU-B.J22 : D		13/7	-LT-XC 2151-B : 2	13/7	13/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	3	23/7	-ECU-B.J26 : A	ID 2150-B	23/7	-LT-XC 2150-B : 0V	23/7	23/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	4	23/7	-ECU-B.J26 : B		23/7	-LT-XC 2150-B : -mA	23/7	23/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	5	23/7	-ECU-B.J26 : C		23/7	-LT-XC 2150-B : +mA	23/7	23/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	6	23/7	-ECU-B.J26 : D		23/7	-LT-XC 2150-B : +24V	23/7	23/7	7x0.75mm²	EN700AC 0707
-W2150.1-B	Screen	23/7	ECC-1 : EMC to Busbar		23/7	-LT : Screen in gland	23/7	23/7	7x0.75mm²	EN700AC 0707
-W4102-n	1	62/3	HCU-n-XHCU : 9	1	62/3	-ZT 4102-n : 1	62/3	62/3	2x2x0,75mm²	EN700AA 0207
-W4102-n	2	62/4	HCU-n-XHCU : 10	2	62/4	-ZT 4102-n : 2	62/4	62/4	2x2x0,75mm²	EN700AA 0207
-W4102-n	3	62/4	HCU-n-XHCU : 11	3	62/4	-ZT 4102-n : 3	62/4	62/4	2x2x0,75mm²	EN700AA 0207
-W4102-n	4	62/4	HCU-n-XHCU : 12	4	62/4	-ZT 4102-n : 4	62/4	62/4	2x2x0,75mm²	EN700AA 0207
-W4102-n	Screen	62/4	HCU-n : Screen in gland		62/4	-ZT 4102-n : Screen	62/4	62/4	2x2x0,75mm²	EN700AA 0207
-W4107-n	1	62/2	HCU-n-XHCU : 1	1	62/1	-XC 4107-n : 1	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	2	62/2	HCU-n-XHCU : 2	2	62/1	-XC 4107-n : 2	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	3	62/2	HCU-n-XHCU : 3	3	62/2	-XC 4107-n : 3	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	4	62/2	HCU-n-XHCU : 4	4	62/2	-XC 4107-n : 4	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	5	62/2	HCU-n-XHCU : 5	5	62/2	-XC 4107-n : 5	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	6	62/2	HCU-n-XHCU : 6	6	62/2	-XC 4107-n : 6	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	7	62/2	HCU-n-XHCU : 7	7	62/2	-XC 4107-n : 7	62/2	62/2	4x2x0,75mm²	EN700AA 0407
-W4107-n	8	62/3	HCU-n-XHCU : 8	8	62/3	-XC 4107-n : 8	62/3	62/3	4x2x0,75mm²	EN700AA 0407
-W4107-n	Screen	62/3	HCU-n : Screen in gland		62/3	-XC 4107-n : Screen	62/3	62/3	4x2x0,75mm²	EN700AA 0407

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				217(241)
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		7B4200		ENGINE CONTROL		5561674-4	
		Final User Info. No.:		Final User Description:		Final User Ident. No.:	



Cable Connection Lists

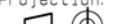
Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
-W4111-n	1	63/6	HCU-n-XHCU	: 17	1	63/6	-ZT 4111-n	: 1	63/6	Sensor cable tail
-W4111-n	2	63/6	HCU-n-XHCU	: 18	2	63/6	-ZT 4111-n	: 2	63/6	Sensor cable tail
-W4111-n	3	63/6	HCU-n-XHCU	: 19	3	63/6	-ZT 4111-n	: 3	63/6	Sensor cable tail
-W4111-n	4	63/6	HCU-n-XHCU	: 20	4	63/6	-ZT 4111-n	: 4	63/6	Sensor cable tail
-W4111-n	Screen	63/6	HCU-n	: Screen in gland		63/6	-ZT 4111-n	: Screen	63/6	Sensor cable tail
-W4114-n	1	63/3	HCU-n-XHCU	: 13	1	63/3	-ZT 4114-n	: 1	63/3	Sensor cable tail
-W4114-n	2	63/3	HCU-n-XHCU	: 14	2	63/3	-ZT 4114-n	: 2	63/3	Sensor cable tail
-W4114-n	3	63/3	HCU-n-XHCU	: 15	3	63/3	-ZT 4114-n	: 3	63/3	Sensor cable tail
-W4114-n	4	63/3	HCU-n-XHCU	: 16	4	63/3	-ZT 4114-n	: 4	63/3	Sensor cable tail
-W4114-n	Screen	63/3	HCU-n	: Screen in gland		63/3	-ZT 4114-n	: Screen	63/3	Sensor cable tail
-W8281-n	1	64/2	-LUB-n	: 1		64/2	-ZV 8281-n	: 1	64/2	2x0.75mm² EN700AC 0207
-W8281-n	2	64/2	-LUB-n	: 2		64/2	-ZV 8281-n	: 2	64/2	2x0.75mm² EN700AC 0207
-W8281-n	Screen	64/2	-LUB-n	: Screen in gland		64/2	-ZV 8281-n	: Separately isolated	64/2	2x0.75mm² EN700AC 0207
-W8285-n	1	64/5	-LUB-n	: 6		64/5	-LS 8285-n	: A	64/5	2x2x0.75mm² Cable with plug
-W8285-n	2	64/5	-LUB-n	: 7		64/5	-LS 8285-n	: B	64/5	2x2x0.75mm² Cable with plug
-W8285-n	3	64/5	-LUB-n	: 8		64/5	-LS 8285-n	: C	64/5	2x2x0.75mm² Cable with plug
-W8285-n	4	64/5	-LUB-n	: 9		64/5	-LS 8285-n	: D	64/5	2x2x0.75mm² Cable with plug
-W8285-n	Screen	64/5	-LUB-n	: Screen in gland		64/5	-LS 8285-n	: Screen	64/5	2x2x0.75mm² Cable with plug
-W8287-A	1	22/2	-ECU-A.J52	: C		22/2	-ZV 8287-A	: 1	22/2	2x0.75mm² Cable with valve plug
-W8287-A	2	22/2	-ECU-A.J52	: B		22/2	-ZV 8287-A	: 2	22/2	2x0.75mm² Cable with valve plug
-W8287-A	Screen	22/2	ECC-1	: EMC to Busbar		22/2	-ZV 8287-A	: Separately isolated	22/2	2x0.75mm² Cable with valve plug
-W8287-B	1	22/7	-ECU-B.J52	: C		22/7	-ZV 8287-B	: 1	22/7	2x0.75mm² Cable with valve plug
-W8287-B	2	22/7	-ECU-B.J52	: B		22/7	-ZV 8287-B	: 2	22/7	2x0.75mm² Cable with valve plug
-W8287-B	Screen	22/7	ECC-1	: EMC to Busbar		22/7	-ZV 8287-B	: Separately isolated	22/7	2x0.75mm² Cable with valve plug
-W8501-A	1	26/2	-ACU-1.J37	: D		26/2	-PT 8501-A	: 1	26/2	2x0.75mm² EN700AC 0207
-W8501-A	2	26/2	-ACU-1.J37	: C		26/2	-PT 8501-A	: 2	26/2	2x0.75mm² EN700AC 0207
-W8501-A	Screen	26/2	ECC-1	: EMC to Busbar		26/2	-PT 8501-A	: Separately isolated	26/2	2x0.75mm² EN700AC 0207
-W8501-B	1	26/7	-ACU-2.J37	: D		26/7	-PT 8501-B	: 1	26/7	2x0.75mm² EN700AC 0207
-W8501-B	2	26/7	-ACU-2.J37	: C		26/7	-PT 8501-B	: 2	26/7	2x0.75mm² EN700AC 0207
-W8501-B	Screen	26/7	ECC-1	: EMC to Busbar		26/7	-PT 8501-B	: Separately isolated	26/7	2x0.75mm² EN700AC 0207
-W8503-A	1	25/2	-ACU-1.J36	: D		25/2	-PT 8503-A	: 1	25/2	2x0.75mm² EN700AC 0207
-W8503-A	2	25/2	-ACU-1.J36	: C		25/2	-PT 8503-A	: 2	25/2	2x0.75mm² EN700AC 0207
-W8503-A	Screen	25/2	ECC-1	: EMC to Busbar		25/2	-PT 8503-A	: Separately isolated	25/2	2x0.75mm² EN700AC 0207

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 218(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



Cable Connection Lists

[illegible]

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

Cable Connection Lists

[illegible]

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 220(241	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



Cable Connection Lists

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Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 221(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
ECC-1-WHPS_A	1	31/1	ECC-1-XHPS	: 1	1	31/1	HPS-XHPS	: 1	31/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	2	31/1	ECC-1-XHPS	: 2	2	31/1	HPS-XHPS	: 2	31/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	3	31/2	ECC-1-XHPS	: 3	3	31/2	HPS-XHPS	: 3	31/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	4	31/2	ECC-1-XHPS	: 4	4	31/2	HPS-XHPS	: 4	31/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	5	31/2	ECC-1-XHPS	: 5	5	31/2	HPS-XHPS	: 5	31/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	6	31/2	ECC-1-XHPS	: 6	6	31/2	HPS-XHPS	: 6	31/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	7	31/4	ECC-1-XHPS	: 5	1	31/4	HPS-XHPS	: 7	31/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	8	31/4	ECC-1-XHPS	: 6	2	31/4	HPS-XHPS	: 8	31/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	9	31/4	ECC-1-XHPS	: 7	3	31/4	HPS-XHPS	: 9	31/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	10	31/4	ECC-1-XHPS	: 8	4	31/4	HPS-XHPS	: 10	31/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	11	31/6	ECC-1-XHPS	: 9	1	31/6	HPS-XHPS	: 11	31/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	12	31/6	ECC-1-XHPS	: 10	2	31/6	HPS-XHPS	: 12	31/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	13	31/8	ECC-1-XHPS	: 11	1	31/8	HPS-XHPS	: 13	31/8	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	14	31/8	ECC-1-XHPS	: 12	2	31/8	HPS-XHPS	: 14	31/8	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	15	32/1	ECC-1-XHPS	: 13	1	32/1	HPS-XHPS	: 15	32/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	16	32/1	ECC-1-XHPS	: 14	2	32/1	HPS-XHPS	: 16	32/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	17	32/2	ECC-1-XHPS	: 15	1	32/2	HPS-XHPS	: 17	32/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	18	32/2	ECC-1-XHPS	: 16	2	32/2	HPS-XHPS	: 18	32/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	19	32/2	ECC-1-XHPS	: 17	3	32/2	HPS-XHPS	: 19	32/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	20	32/2	ECC-1-XHPS	: 18	4	32/2	HPS-XHPS	: 20	32/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	21	32/4	ECC-1-XHPS	: 19	1	32/4	HPS-XHPS	: 21	32/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	22	32/4	ECC-1-XHPS	: 20	2	32/4	HPS-XHPS	: 22	32/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	23	32/4	ECC-1-XHPS	: 21	3	32/4	HPS-XHPS	: 23	32/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	24	32/4	ECC-1-XHPS	: 22	4	32/4	HPS-XHPS	: 24	32/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	25	32/6	ECC-1-XHPS	: 23	1	32/6	HPS-XHPS	: 25	32/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	26	32/6	ECC-1-XHPS	: 24	2	32/6	HPS-XHPS	: 26	32/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	27	32/8	ECC-1-XHPS	: 25	1	32/8	HPS-XHPS	: 27	32/8	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	28	32/8	ECC-1-XHPS	: 26	2	32/8	HPS-XHPS	: 28	32/8	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	29	33/1	ECC-1-XHPS1	: 27	1	33/1	HPS-XHPS	: 29	33/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	30	33/1	ECC-1-XHPS1	: 28	2	33/1	HPS-XHPS	: 30	33/1	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	31	33/2	ECC-1-XHPS1	: 29	1	33/2	HPS-XHPS	: 31	33/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	32	33/2	ECC-1-XHPS1	: 30	2	33/2	HPS-XHPS	: 32	33/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	33	33/2	ECC-1-XHPS1	: 31	3	33/2	HPS-XHPS	: 33	33/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	34	33/2	ECC-1-XHPS1	: 32	4	33/2	HPS-XHPS	: 34	33/2	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	35	33/4	ECC-1-XHPS1	: 33	1	33/4	HPS-XHPS	: 35	33/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	36	33/4	ECC-1-XHPS1	: 34	2	33/4	HPS-XHPS	: 36	33/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	37	33/4	ECC-1-XHPS1	: 35	3	33/4	HPS-XHPS	: 37	33/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	38	33/4	ECC-1-XHPS1	: 36	4	33/4	HPS-XHPS	: 38	33/4	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	39	33/6	ECC-1-XHPS1	: 37	1	33/6	HPS-XHPS	: 39	33/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	40	33/6	ECC-1-XHPS1	: 38	2	33/6	HPS-XHPS	: 40	33/6	50x0.75mm ² EN700AC 5007
ECC-1-WHPS_A	41	33/8	ECC-1-XHPS1	: 39	1	33/8	HPS-XHPS	: 41	33/8	50x0.75mm ² EN700AC 5007

Cable list	Date				Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:					Projection:	Page No.:	
		A3	ME ECS 5-12 CYL						222(241)	
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					7B4200		ENGINE CONTROL		5561674-4	
					Final User Info. No.:		Final User Description:		Final User Ident. No.:	



Cable Connection Lists

[illegible]

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL			Projection: 	Page No.: 223(241)
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			7B4200	ENGINE CONTROL		5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.		
ECC-1-WX3TSA-A	1	111/1	-ECU-B.J41 : B	110/6	ECC-1-X3TSA-A : 1	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	2	111/1	-ECU-B.J41 : C	110/6	ECC-1-X3TSA-A : 2	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	3	111/1	-ECU-B.J40 : B	110/5	ECC-1-X3TSA-A : 3	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	4	111/1	-ECU-B.J40 : C	110/5	ECC-1-X3TSA-A : 4	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	5	111/1	-ECU-B.J43 : B	110/7	ECC-1-X3TSA-A : 5	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	6	111/1	-ECU-B.J43 : C	110/8	ECC-1-X3TSA-A : 6	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	7	111/1	-ECU-B.J42 : B	110/7	ECC-1-X3TSA-A : 7	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	8	111/1	-ECU-B.J42 : C	110/7	ECC-1-X3TSA-A : 8	111/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-A	Screen	111/1	ECC-1-WX3TSA-A : Separately isolated		111/1	ECC-1 : Screen to EMC Busbar		111/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WX3TSA-B	1	121/1	-ECU-A.J45 : B	120/6	ECC-1-X3TSA-B : 1	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	2	121/1	-ECU-A.J45 : C	120/6	ECC-1-X3TSA-B : 2	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	3	121/1	-ECU-A.J44 : B	120/5	ECC-1-X3TSA-B : 3	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	4	121/1	-ECU-A.J44 : C	120/5	ECC-1-X3TSA-B : 4	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	5	121/1	-ECU-A.J47 : B	120/7	ECC-1-X3TSA-B : 5	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	6	121/1	-ECU-A.J47 : C	120/8	ECC-1-X3TSA-B : 6	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	7	121/1	-ECU-A.J46 : B	120/7	ECC-1-X3TSA-B : 7	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	8	121/1	-ECU-A.J46 : C	120/7	ECC-1-X3TSA-B : 8	121/2	4x2x0.75mm²	EN700AA 0407		
ECC-1-WX3TSA-B	Screen	121/1	ECC-1-WX3TSA-B : Separately isolated		121/1	ECC-1 : Screen to EMC Busbar		121/2	4x2x0.75mm²	EN700AA 0407
ECC-1-WXNET-A	1	84/7	-ACU-2.J65 : A	Line A	84/6	ECC-1-XNET-A : 4	84/8	1x2x0.75mm²	EN700AF 0107	
ECC-1-WXNET-A	2	84/7	-ACU-2.J65 : B		84/6	ECC-1-XNET-A : 5	84/8	1x2x0.75mm²	EN700AF 0107	
ECC-1-WXNET-A	Screen	84/7	-ACU-2.J65 : C		84/6	ECC-1-XNET-A : 6	84/8	1x2x0.75mm²	EN700AF 0107	
ECC-1-WXNET-B	1	93/2	-ACU-1.J65 : A	Line B	93/3	ECC-1-XNET-B : 1	93/1	1x2x0.75mm²	EN700AF 0107	
ECC-1-WXNET-B	2	93/2	-ACU-1.J65 : B		93/3	ECC-1-XNET-B : 2	93/1	1x2x0.75mm²	EN700AF 0107	
ECC-1-WXNET-B	Screen	93/2	-ACU-1.J65 : C		93/3	ECC-1-XNET-B : 3	93/1	1x2x0.75mm²	EN700AF 0107	
ECC-2-WNET-A	1	87/1	-EICU-B-XNET-A : 4		82/8	ECC-2-XNET-A : 1	87/1	1x2x0.75mm²	EN700AF 0107	
ECC-2-WNET-A	2	87/1	-EICU-B-XNET-A : 5		82/8	ECC-2-XNET-A : 2	87/1	1x2x0.75mm²	EN700AF 0107	
ECC-2-WNET-A	Screen	87/1	-EC-MOP A : Screen in Frame		81/6	ECC-2-XNET-A : 3	87/1	1x2x0.75mm²	EN700AF 0107	
ECC-2-WTSA-A	1	115/5	ECC-3-X3TSA-A : 1		115/3	ECC-2-X2TSA-A : 1	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	2	115/5	ECC-3-X3TSA-A : 2		115/3	ECC-2-X2TSA-A : 2	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	3	115/5	ECC-3-X3TSA-A : 3		115/3	ECC-2-X2TSA-A : 3	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	4	115/5	ECC-3-X3TSA-A : 4		115/3	ECC-2-X2TSA-A : 4	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	5	115/5	ECC-3-X3TSA-A : 5		115/3	ECC-2-X2TSA-A : 5	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	6	115/5	ECC-3-X3TSA-A : 6		115/3	ECC-2-X2TSA-A : 6	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	7	115/5	ECC-3-X3TSA-A : 7		115/3	ECC-2-X2TSA-A : 7	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	8	115/5	ECC-3-X3TSA-A : 8		115/3	ECC-2-X2TSA-A : 8	115/7	4x2x0.75mm²	EN700AA 0407	
ECC-2-WTSA-A	Screen	115/5	ECC-3 : Screen to EMC Busbar		115/3	ECC-2 : Screen to EMC Busbar		115/6	4x2x0.75mm²	EN700AA 0407

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
		Scale:	Size:	Product Type:			Projection:	Page No.:	
			A3	ME ECS 5-12 CYL				224(241)	
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		7B4200		ENGINE CONTROL				5561674-4	
		Final User Info. No.:		Final User Description:				Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
ECC-2-WTSA-B	1	125/5	ECC-3-X3TSA-B : 1		125/3	ECC-2-X2TSA-B : 1		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	2	125/5	ECC-3-X3TSA-B : 2		125/3	ECC-2-X2TSA-B : 2		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	3	125/5	ECC-3-X3TSA-B : 3		125/3	ECC-2-X2TSA-B : 3		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	4	125/5	ECC-3-X3TSA-B : 4		125/3	ECC-2-X2TSA-B : 4		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	5	125/5	ECC-3-X3TSA-B : 5		125/3	ECC-2-X2TSA-B : 5		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	6	125/5	ECC-3-X3TSA-B : 6		125/3	ECC-2-X2TSA-B : 6		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	7	125/5	ECC-3-X3TSA-B : 7		125/3	ECC-2-X2TSA-B : 7		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	8	125/5	ECC-3-X3TSA-B : 8		125/3	ECC-2-X2TSA-B : 8		125/7	4x2x0.75mm²	EN700AA 0407
ECC-2-WTSA-B	Screen	125/5	ECC-3 : Screen to EMC Busbar		125/3	ECC-2 : Screen to EMC Busbar		125/6	4x2x0.75mm²	EN700AA 0407
ECC-2-WXNET-A	1	88/6	-CCU-2.J65 : A Net A		88/5	ECC-2-XNET-A : 4		88/7	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-A	2	88/6	-CCU-2.J65 : B		88/5	ECC-2-XNET-A : 5		88/7	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-A	Screen	88/6	-CCU-2 : Screen to Frame		88/5	ECC-2-XNET-A : 6		88/7	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	1	97/2	-CCU-1.J66 : A Net B		97/3	ECC-2-XNET-B : 1		97/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	2	97/2	-CCU-1.J66 : B		97/3	ECC-2-XNET-B : 2		97/1	1x2x0.75mm²	EN700AF 0107
ECC-2-WXNET-B	Screen	97/2	-CCU-1 : Screen to Frame		97/3	ECC-2-XNET-B : 3		97/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	1	85/1	-EICU-B-XNET-A : 4		82/8	ECC-3-XNET-A : 1		85/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	2	85/1	-EICU-B-XNET-A : 5		82/8	ECC-3-XNET-A : 2		85/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-A	Screen	85/1	-EC-MOP A : Screen in Frame		81/6	ECC-3-XNET-A : 3		85/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-B	1	96/8	-CWCU.J65 : A Line B		92/3	ECC-3-XNET-B : 4		96/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-B	2	96/8	-CWCU.J65 : B		92/3	ECC-3-XNET-B : 5		96/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WNET-B	Screen	96/8	-CWCU.J65 : C		92/3	ECC-3-XNET-B : 6		96/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WTSA-A	1	111/5	ECC-1-X3TSA-A : 1		111/3	ECC-3-X2TSA-A : 1		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	2	111/5	ECC-1-X3TSA-A : 2		111/3	ECC-3-X2TSA-A : 2		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	3	111/5	ECC-1-X3TSA-A : 3		111/3	ECC-3-X2TSA-A : 3		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	4	111/5	ECC-1-X3TSA-A : 4		111/3	ECC-3-X2TSA-A : 4		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	5	111/5	ECC-1-X3TSA-A : 5		111/3	ECC-3-X2TSA-A : 5		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	6	111/5	ECC-1-X3TSA-A : 6		111/3	ECC-3-X2TSA-A : 6		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	7	111/5	ECC-1-X3TSA-A : 7		111/3	ECC-3-X2TSA-A : 7		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	8	111/5	ECC-1-X3TSA-A : 8		111/3	ECC-3-X2TSA-A : 8		111/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-A	Screen	111/5	ECC-1 : Screen to EMC Busbar		111/3	ECC-3 : Screen to EMC Busbar		111/6	4x2x0.75mm²	EN700AA 0407

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
ECC-3-WTSA-B	1	121/5	ECC-1-X3TSA-B : 1		121/3	ECC-3-X2TSA-B : 1		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	2	121/5	ECC-1-X3TSA-B : 2		121/3	ECC-3-X2TSA-B : 2		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	3	121/5	ECC-1-X3TSA-B : 3		121/3	ECC-3-X2TSA-B : 3		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	4	121/5	ECC-1-X3TSA-B : 4		121/3	ECC-3-X2TSA-B : 4		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	5	121/5	ECC-1-X3TSA-B : 5		121/3	ECC-3-X2TSA-B : 5		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	6	121/5	ECC-1-X3TSA-B : 6		121/3	ECC-3-X2TSA-B : 6		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	7	121/5	ECC-1-X3TSA-B : 7		121/3	ECC-3-X2TSA-B : 7		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	8	121/5	ECC-1-X3TSA-B : 8		121/3	ECC-3-X2TSA-B : 8		121/7	4x2x0.75mm²	EN700AA 0407
ECC-3-WTSA-B	Screen	121/5	ECC-1 : Screen to EMC Busbar		121/3	ECC-3 : Screen to EMC Busbar		121/6	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	1	115/1	-CCU-8.J40...J43 : B	ID 4002-A	114/6	ECC-3-X3TSA-A : 1		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	2	115/1	-CCU-8.J40...J43 : C		114/6	ECC-3-X3TSA-A : 2		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	3	115/1	-CCU-8.J40...J43 : B	ID 4001-A	114/5	ECC-3-X3TSA-A : 3		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	4	115/1	-CCU-8.J40...J43 : C		114/5	ECC-3-X3TSA-A : 4		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	5	115/1	-CCU-8.J40...J43 : B	ID 4004-A	114/7	ECC-3-X3TSA-A : 5		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	6	115/1	-CCU-8.J40...J43 : C		114/8	ECC-3-X3TSA-A : 6		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	7	115/1	-CCU-8.J40...J43 : B	ID 4003-A	114/7	ECC-3-X3TSA-A : 7		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	8	115/1	-CCU-8.J40...J43 : C		114/7	ECC-3-X3TSA-A : 8		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-A	Screen	115/1	-CCU-8 : Screen to Frame		114/8	ECC-3 : Screen to EMC Busbar		115/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	1	125/1	-CCU-8.J44...J47 : B	ID 4002-B	124/6	ECC-3-X3TSA-B : 1		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	2	125/1	-CCU-8.J44...J47 : C		124/6	ECC-3-X3TSA-B : 2		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	3	125/1	-CCU-8.J44...J47 : B	ID 4001-B	124/5	ECC-3-X3TSA-B : 3		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	4	125/1	-CCU-8.J44...J47 : C		124/5	ECC-3-X3TSA-B : 4		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	5	125/1	-CCU-8.J44...J47 : B	ID 4004-B	124/7	ECC-3-X3TSA-B : 5		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	6	125/1	-CCU-8.J44...J47 : C		124/8	ECC-3-X3TSA-B : 6		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	7	125/1	-CCU-8.J44...J47 : B	ID 4003-B	124/7	ECC-3-X3TSA-B : 7		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	8	125/1	-CCU-8.J44...J47 : C		124/7	ECC-3-X3TSA-B : 8		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WX3TSA-B	Screen	125/1	-CCU-8 : Screen to Frame		124/8	ECC-3 : Screen to EMC Busbar		125/2	4x2x0.75mm²	EN700AA 0407
ECC-3-WXNET-A	1	86/7	-CCU-8.J65 : A	Net A	86/6	ECC-3-XNET-A : 4		86/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-A	2	86/7	-CCU-8.J65 : B		86/6	ECC-3-XNET-A : 5		86/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-A	Screen	86/7	-CCU-8 : Screen to Frame		86/6	ECC-3-XNET-A : 6		86/8	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	1	95/2	-CCU-7.J66 : A	Net B	95/3	ECC-3-XNET-B : 1		95/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	2	95/2	-CCU-7.J66 : B		95/3	ECC-3-XNET-B : 2		95/1	1x2x0.75mm²	EN700AF 0107
ECC-3-WXNET-B	Screen	95/2	-CCU-7 : Screen to Frame		95/3	ECC-3-XNET-B : 3		95/1	1x2x0.75mm²	EN700AF 0107

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					226(241)	
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	7B4200		ENGINE CONTROL				5561674-4		
	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
ECC-n-WnHCU_A	1	62/2	HCU-n-XHCU : 3	62/2	-CCU-n : C	ID 4107-n 62/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	2	62/2	HCU-n-XHCU : 4	62/2	-CCU-n : B	62/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	3	62/3	HCU-n-XHCU : 9	62/3	-CCU-n.J30 : D	62/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	4	62/4	HCU-n-XHCU : 10	62/4	-CCU-n.J30 : A	ID 4102-n 62/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	5	62/4	HCU-n-XHCU : 11	62/4	-CCU-n.J30 : C	62/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	6	62/4	HCU-n-XHCU : 12	62/4	-CCU-n.J30 : B	62/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	Screen	62/4	HCU-n : Screen in gland	62/4	-CCU-n : EMC to Busbar	62/4	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	7	63/3	-CCU-n.J31 : D	63/3	HCU-n-XHCU : 13	63/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	8	63/3	-CCU-n.J31 : A	ID 4114-n 63/3	HCU-n-XHCU : 14	63/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	9	63/3	-CCU-n.J31 : C	63/3	HCU-n-XHCU : 15	63/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	10	63/3	-CCU-n.J31 : B	63/3	HCU-n-XHCU : 16	63/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	11	63/6	-CCU-n.J34 : D	63/6	HCU-n-XHCU : 17	63/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	12	63/6	-CCU-n.J34 : A	ID 4111-n/4117-n 63/6	HCU-n-XHCU : 18	63/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	13	63/6	-CCU-n.J34 : C	63/6	HCU-n-XHCU : 19	63/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	14	63/6	-CCU-n.J34 : B	63/6	HCU-n-XHCU : 20	63/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_A	Screen	63/6	-CCU-n : EMC to Busbar	63/6	HCU-n : Screen in gland	63/6	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	1	64/2	-CCU-n : C	64/2	HCU-n-XHCU : 21	64/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	2	64/2	-CCU-n : B	ID 8281-n 64/2	HCU-n-XHCU : 22	64/2	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	3	64/3	-CCU-n : B	ID 8282-n 64/3	HCU-n-XHCU : 23	64/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	4	64/3	-CCU-n : C	64/3	HCU-n-XHCU : 24	64/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	5	64/3	-CCU-n : D	64/3	HCU-n-XHCU : 25	64/3	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	6	64/5	-CCU-n.J21 : D	64/5	HCU-n-XHCU : 26	64/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	7	64/5	-CCU-n.J21 : A	ID 8285-n 64/5	HCU-n-XHCU : 27	64/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	8	64/5	-CCU-n.J21 : C	64/5	HCU-n-XHCU : 28	64/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	9	64/5	-CCU-n.J21 : B	64/5	HCU-n-XHCU : 29	64/5	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	10	64/7	-CCU-n : C	64/7	HCU-n-XHCU : 30	64/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	11	64/7	-CCU-n : B	ID 1120-n 64/7	HCU-n-XHCU : 31	64/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_D	Screen	64/7			HCU-n : Screen in gland	64/7	14x0.75mm²	EN700AC 1407
ECC-n-WnHCU_P	1	62/1	-CCU-n : B	62/1	HCU-n-XHCU : 1	62/1	2x1,5mm²	EN700AC 0215
ECC-n-WnHCU_P	2	62/1	-CCU-n : A	62/1	HCU-n-XHCU : 2	62/1	2x1,5mm²	EN700AC 0215
ECC-n-WnHCU_P	Sreen	62/1	-CCU-n : EMC to Busbar	62/1	HCU-n : Screen in gland	62/1	2x1,5mm²	EN700AC 0215
HCC-n*-WnHCU_A	1	62/7			HCU-n-XHCU : 3	62/7	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	2	62/7			HCU-n-XHCU : 4	62/7	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	3	62/8			HCU-n-XHCU : 9	62/8	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	4	62/8			HCU-n-XHCU : 10	62/8	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	5	62/9			HCU-n-XHCU : 11	62/9	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	6	62/9			HCU-n-XHCU : 12	62/9	14x0.75mm²	EN700AC 1407
HCC-n*-WnHCU_A	Screen	62/9	-CCU-n : Screen in gland	62/9	HCU-n : Screen in gland	62/9	14x0.75mm²	EN700AC 1407

Cable list	Date		Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 227(241)
	Info. No.: 7B4200		Item Name: ENGINE CONTROL				Item Id.: 5561674-4	
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Cable Connection Lists

[illegible]

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 228(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

15 YARD SUPPLY CABLE LIST

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YARD SUPPLY CABLE LIST	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 229(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		



Cable Connection Lists

[illegible]

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
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	Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal	Page/Grid	Type	Part no.
ECC-1-W1WHR	1	175/4	-SCU.J43 : C		175/4	WHR-XWHR : *	175/4	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	2	175/4	-SCU.J43 : D		175/4	WHR-XWHR : *	175/4	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	3	175/5	-SCU.J71 : B		175/5	WHR-XWHR : -mA	175/5	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	4	175/5	-SCU.J71 : C		175/5	WHR-XWHR : +mA	175/5	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	5	175/6	-SCU.J26 : A	ID 8772	175/6	WHR-XWHR : 0V	175/6	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	6	175/6	-SCU.J26 : B		175/6	WHR-XWHR : -mA	175/6	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	7	175/6	-SCU.J26 : C		175/6	WHR-XWHR : +mA	175/6	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	8	175/6	-SCU.J26 : D		175/6	WHR-XWHR : +24V	175/6	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	9	175/7	-SCU.J27 : C		175/7	WHR-XWHR : -mA	175/7	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	10	175/7	-SCU.J27 : D		175/7	WHR-XWHR : +mA	175/7	12x0.75mm²	EN700AC 1207
ECC-1-W1WHR	Screen	175/7	ECC-1 : EMC to Busbar		175/7	WHR : Screen in gland	175/7	12x0.75mm²	EN700AC 1207
ECC-1-W2001-A	1	161/2	ECC-1-XA : 1	1	161/2	SS-XC 2001-A : 1	161/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-A	2	161/2	ECC-1-XA : 2	2	161/2	SS-XC 2001-A : 2	161/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-A	Screen	161/2	ECC-1 : EMC to Busbar		161/2	SS : Screen	161/2	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	1	161/7	ECC-1-XB : 3	1	161/7	SS-XC 2001-B : 1	161/7	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	2	161/7	ECC-1-XB : 4	2	161/7	SS-XC 2001-B : 2	161/7	2x0.75mm²	EN700AC 0207
ECC-1-W2001-B	Screen	161/7	ECC-1 : EMC to Busbar		161/7	SS : Screen	161/7	2x0.75mm²	EN700AC 0207
ECC-1-W2005-A.B	1	162/2	ECC-1-XA : 5	1	162/2	SS : *	162/2	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	2	162/2	ECC-1-XA : 6	2	162/2	SS : *	162/2	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	3	162/7	ECC-1-XB : 7	1	162/7	SS : *	162/7	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	4	162/7	ECC-1-XB : 8	2	162/7	SS : *	162/7	5x0.75mm²	EN700AC 0507
ECC-1-W2005-A.B	Screen	162/7	ECC-1 : EMC to Busbar		162/7	SS : Screen	162/7	5x0.75mm²	EN700AC 0507
ECC-1-W8772	1	178/4	-SCU.J26 : A	ID 8772	178/4	EGECS-XWHR	178/4	5x0.75mm²	EN700AC 0507
ECC-1-W8772	2	178/5	-SCU.J26 : B		178/5	EGECS-XWHR	178/5	5x0.75mm²	EN700AC 0507
ECC-1-W8772	3	178/5	-SCU.J26 : C		178/5	EGECS-XWHR	178/5	5x0.75mm²	EN700AC 0507
ECC-1-W8772	4	178/5	-SCU.J26 : D		178/5	EGECS-XWHR	178/5	5x0.75mm²	EN700AC 0507
ECC-1-W8772	Screen	178/5	ECC-1 : EMC Bus bar		178/5	EGECS1 : Screen in gland	178/5	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	1	173/1	-SCU.J35 : A	ID 8801-1	173/1	ECR-T411.TC-n.X : 0V	173/1	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	2	173/1	-SCU.J35 : B		173/1	ECR-T411.TC-n.X : I-	173/1	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	3	173/1	-SCU.J35 : C		173/1	ECR-T411.TC-n.X : I+	173/1	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	4	173/1	-SCU.J35 : D		173/1	ECR-T411.TC-n.X : +24V	173/1	5x0.75mm²	EN700AC 0507
ECC-1-W8801-1	Screen	173/1	ECC-1 : EMC to Busbar		173/1	ECR-XC 8801-1 : Screen in gland	173/1	5x0.75mm²	EN700AC 0507

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size:	Product Type:				Projection:	Page No.:	
		A3	ME ECS 5-12 CYL					231(241)	
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			7B4200		ENGINE CONTROL			5561674-4	
			Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
ECC-1-WAUXB-1	1	53/1	-ACU-1.J40 : C	53/1	AUXB-1-X2 : 9	53/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	2	53/1	-ACU-1.J40 : D	53/1	AUXB-1-X2 : 12	53/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	3	53/2	-ACU-1.J41 : C	53/2	AUXB-1-X2 : 5	53/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	4	53/2	-ACU-1.J41 : D	53/2	AUXB-1-X2 : 6	53/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	5	53/3	-ACU-1.J82 : A	ID 8620-1	AUXB-1-X2 : 3	53/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	6	53/3	-ACU-1.J82 : B	53/3	AUXB-1-X2 : 4	53/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-1	Screen	53/3	ECC-1 : Screen in gland	53/3	AUXB-1 : Screen in gland	53/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	1	54/1	-ACU-2.J40 : C	54/1	AUXB-2-X2 : 9	54/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	2	54/1	-ACU-2.J40 : D	54/1	AUXB-2-X2 : 12	54/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	3	54/2	-ACU-2.J41 : C	54/2	AUXB-2-X2 : 5	54/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	4	54/2	-ACU-2.J41 : D	54/2	AUXB-2-X2 : 6	54/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	5	54/3	-ACU-2.J82 : A	ID 8620-2	AUXB-2-X2 : 3	54/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	6	54/3	-ACU-2.J82 : B	54/3	AUXB-2-X2 : 4	54/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-2	Screen	54/3	ECC-1 : EMC to Busbar	54/3	AUXB-2 : Screen in gland	54/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	1	55/1	-ACU-3.J40 : C	55/1	AUXB-3-X2 : 9	55/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	2	55/1	-ACU-3.J40 : D	55/1	AUXB-3-X2 : 12	55/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	3	55/2	-ACU-3.J41 : C	55/2	AUXB-3-X2 : 5	55/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	4	55/2	-ACU-3.J41 : D	55/2	AUXB-3-X2 : 6	55/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	5	55/3	-ACU-3.J82 : A	ID 8620-3	AUXB-3-X2 : 3	55/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	6	55/3	-ACU-3.J82 : B	55/3	AUXB-3-X2 : 4	55/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-3	Screen	55/3	ECC-1 : EMC to Busbar	55/3	AUXB-3 : Screen in gland	55/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	1	56/2	-ACU-1.J43 : C	56/2	AUXB-4-X2 : 5	56/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	1	56/1	-ACU-1.J42 : C	56/1	AUXB-4-X2 : 9	56/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	2	56/1	-ACU-1.J42 : D	56/1	AUXB-4-X2 : 12	56/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	3	56/2	-ACU-1.J43 : D	56/2	AUXB-4-X2 : 6	56/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	4	56/3	-ACU-1.J81 : A	ID 8620-4	AUXB-4-X2 : 3	56/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	5	56/3	-ACU-1.J81 : B	56/3	AUXB-4-X2 : 4	56/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-4	Screen	56/3	ECC-1 : EMC to Busbar	56/3	AUXB-4 : Screen in gland	56/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	1	57/1	-ACU-2.J42 : C	57/1	AUXB-5-X2 : 9	57/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	2	57/1	-ACU-2.J42 : D	57/1	AUXB-5-X2 : 12	57/1	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	3	57/2	-ACU-2.J43 : C	57/2	AUXB-5-X2 : 5	57/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	4	57/2	-ACU-2.J43 : D	57/2	AUXB-5-X2 : 6	57/2	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	5	57/3	-ACU-2.J81 : A	ID 8620-5	AUXB-5-X2 : 3	57/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	6	57/3	-ACU-2.J81 : B	57/3	AUXB-5-X2 : 4	57/3	7x0.75mm²	EN700AC 0707
ECC-1-WAUXB-5	Screen	57/3	ECC-1 : EMC to Busbar	57/3	AUXB-5 : Screen in gland	57/3	7x0.75mm²	EN700AC 0707

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				232(241)
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	7B4200		ENGINE CONTROL			5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
ECC-1-WNET-A	1	83/1	-EICU-B-XNET-A : 4		82/8	ECC-1-XNET-A : 1		83/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-A	2	83/1	-EICU-B-XNET-A : 5		82/8	ECC-1-XNET-A : 2		83/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WNET-A	Screen	83/1	-EC-MOP A : Screen in Frame		81/6	ECC-1-XNET-A : 3		83/1	1x2x0.75mm²	EN700AF 0107
ECC-1-WSTS-1	1	51/1	-ACU-1.J44 : C		51/1	STS-1-X2 : 9		51/1	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	2	51/1	-ACU-1.J44 : D		51/1	STS-1-X2 : 12		51/1	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	3	51/2	-ACU-1.J44 : C		51/2	STS-1-X2 : 5		51/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	4	51/2	-ACU-1.J44 : D		51/2	STS-1-X2 : 6		51/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	5	51/3	-ACU-1.J61 : B		51/3	STS-1-X2 : 3		51/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	6	51/3	-ACU-1.J61 : C		51/3	STS-1-X2 : 4		51/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-1	Screen	51/3	ECC-1 : EMC to Busbar		51/3	STS-1 : Screen in gland		51/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	1	52/1	-ACU-2.J44 : C		52/1	STS-2-X2 : 9		52/1	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	2	52/1	-ACU-2.J44 : D		52/1	STS-2-X2 : 12		52/1	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	3	52/2	-ACU-2.J44 : C		52/2	STS-2-X2 : 5		52/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	4	52/2	-ACU-2.J44 : D		52/2	STS-2-X2 : 6		52/2	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	5	52/3	-ACU-2.J61 : B		52/3	STS-2-X2 : 3		52/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	6	52/3	-ACU-2.J61 : C		52/3	STS-2-X2 : 4		52/3	7x0.75mm²	EN700AC 0707
ECC-1-WSTS-2	Screen	52/3	ECC-1 : EMC to Busbar		52/3	STS-2 : Screen in gland		52/3	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	1	180/1	-ACU-3.J27 : C		180/1	JB TC CUT OUT-X1 : 2		180/1	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	2	180/2	-ACU-3.J35 : C		180/2	JB TC CUT OUT-X1 : 6		180/2	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	3	180/3	-ACU-3.J36 : C		180/3	JB TC CUT OUT-X1 : 10		180/3	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	4	180/4	-ACU-3.J37 : C		180/4	JB TC CUT OUT-X1 : 14		180/4	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	5	180/4	-ACU-3.J37 : A		180/4	JB TC CUT OUT-X1 : 17		180/4	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	6	180/5	-ACU-3.J37 : D		180/4	JB TC CUT OUT-X1 : 18		180/5	7x0.75mm²	EN700AC 0707
ECC-1-WTCCO	Screen	180/5	ECC-1 : Screen in gland		180/5	JB TC CUT OUT : Screen in gland		180/5	7x0.75mm²	EN700AC 0707
ECC-2-W2002-1	1	163/2	ECC-2-XA : 1		163/2	SS-XC 2002-1 : 1		163/2	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	2	163/2	ECC-2-XA : 2		163/2	SS-XC 2002-1 : 2		163/2	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	n	163/7	ECC-2-XB : n		163/7	SS-XC 2002-n : 2		163/7	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	n	163/7	ECC-2-XB : n		163/7	SS-XC 2002-n : 1		163/7	19x0.75mm²	EN700AC 1907
ECC-2-W2002-1	Screen	163/7	ECC-2 : EMC to Busbar		163/7	SS : Screen		163/7	19x0.75mm²	EN700AC 1907
ECC-2-WNET-B	1	98/8	-EICU-A-XNET-B : 4		91/8	ECC-2-XNET-B : 4		98/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-B	2	98/8	-EICU-A-XNET-B : 5		91/8	ECC-2-XNET-B : 5		98/8	1x2x0.75mm²	EN700AF 0107
ECC-2-WNET-B	Screen	98/8	-EICU-A-XNET-B : 6		91/8	ECC-2-XNET-B : 6		98/8	1x2x0.75mm²	EN700AF 0107

Cable list	Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
	20141009	LKOL	JYA	Z3	EICU signal to LDCL added	121059	07
	Scale:	Size:	Product Type:			Projection:	Page No.:
		A3	ME ECS 5-12 CYL				233(241)
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	7B4200		ENGINE CONTROL			5561674-4	
	Final User Info. No.:		Final User Description:			Final User Ident. No.:	



Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal	Page/Grid	Type	Part no.
EICC-W1PMS	1	182/6	EICC-XA : 37	1	182/6	PMS-X : *	182/6	7x0.75mm²	EN700AC 0707
EICC-W1PMS	2	182/6	EICC-XA : 38	2	182/6	PMS-X : *	182/6	7x0.75mm²	EN700AC 0707
EICC-W1PMS	3	182/6	EICC-XA : 55	1	182/6	PMS-X : *	182/6	7x0.75mm²	EN700AC 0707
EICC-W1PMS	4	182/7	EICC-XA : 56	2	182/7	PMS-X : *	182/7	7x0.75mm²	EN700AC 0707
EICC-W1PMS	5	182/7	EICC-XA : 74	1	182/7	PMS-X : *	182/7	7x0.75mm²	EN700AC 0707
EICC-W1PMS	6	182/7	EICC-XA : 75	2	182/7	PMS-X : *	182/7	7x0.75mm²	EN700AC 0707
EICC-W1PMS	Screen	182/8	EICC : EMC to Busbar		182/8	PMS : Screen in gland	182/8	7x0.75mm²	EN700AC 0707
EICC-W2PMS	1	176/1	EICC-XB : 37	1	176/1	PMS-XPMS : *	176/1	7x0.75mm²	EN700AC 0707
EICC-W2PMS	2	176/1	EICC-XB : 38	2	176/1	PMS-XPMS : *	176/1	7x0.75mm²	EN700AC 0707
EICC-W2PMS	3	176/2	EICC-XB : 57	1	176/2	PMS-XPMS : *	176/2	7x0.75mm²	EN700AC 0707
EICC-W2PMS	4	176/2	EICC-XB : 58	2	176/2	PMS-XPMS : *	176/2	7x0.75mm²	EN700AC 0707
EICC-W2PMS	5	176/3	EICC-XB : 74	1	176/3	PMS-XPMS : *	176/3	7x0.75mm²	EN700AC 0707
EICC-W2PMS	6	176/3	EICC-XB : 75	2	176/3	PMS-XPMS : *	176/3	7x0.75mm²	EN700AC 0707
EICC-W2PMS	Screen	176/3	EICC : EMC to Busbar		176/3	PMS : Screen in gland	176/3	7x0.75mm²	EN700AC 0707
EICC-W2010-A	1	153/2	EICC-XA : 13	1	153/2	SDS-XC 2010-A : 1	153/2	2x0.75mm²	EN700AC 0207
EICC-W2010-A	2	153/2	EICC-XA : 14	2	153/2	SDS-XC 2010-A : 2	153/2	2x0.75mm²	EN700AC 0207
EICC-W2010-A	Screen	153/2	EICC : EMC to Busbar		153/2	SDS : Screen	153/2	2x0.75mm²	EN700AC 0207
EICC-W2020-A	1	157/2	EICC-XA : 76	1	157/2	SS : *	157/2	2x0.75mm²	EN700AC 0207
EICC-W2020-A	2	157/2	EICC-XA : 77	2	157/2	SS : *	157/2	2x0.75mm²	EN700AC 0207
EICC-W2020-A	Screen	157/2	EICC : EMC to Busbar		157/2	SS : Screen	157/2	2x0.75mm²	EN700AC 0207
EICC-W2020-B	1	157/7	EICC-XB : 76	1	157/7	SS : *	157/7	2x0.75mm²	EN700AC 0207
EICC-W2020-B	2	157/7	EICC-XB : 77	2	157/7	SS : *	157/7	2x0.75mm²	EN700AC 0207
EICC-W2020-B	Screen	157/7	EICC : EMC to Busbar		157/7	SS : Screen	157/7	2x0.75mm²	EN700AC 0207
EICC-W2021-A	1	155/2	EICC-XA : 66	1	155/2	SS : *	155/2	2x0.75mm²	EN700AC 0207
EICC-W2021-A	2	155/2	EICC-XA : 67	2	155/2	SS : *	155/2	2x0.75mm²	EN700AC 0207
EICC-W2021-A	Screen	155/2	EICC : EMC to Busbar		155/2	SS : Screen	155/2	2x0.75mm²	EN700AC 0207
EICC-W2021-B	1	155/7	EICC-XB : 66	1	155/7	SS : *	155/7	2x0.75mm²	EN700AC 0207
EICC-W2021-B	2	155/7	EICC-XB : 67	2	155/7	SS : *	155/7	2x0.75mm²	EN700AC 0207
EICC-W2021-B	Screen	155/7	EICC : EMC to Busbar		155/7	SS : Screen	155/7	2x0.75mm²	EN700AC 0207
EICC-W2130-A	1	159/2	EICC-XA : 80	1	159/2	AMS : *	159/2	2x0.75mm²	EN700AC 0207
EICC-W2130-A	2	159/2	EICC-XA : 81	2	159/2	AMS : *	159/2	2x0.75mm²	EN700AC 0207
EICC-W2130-A	Screen	159/2	EICC : EMC to Busbar		159/2	AMS : Screen	159/2	2x0.75mm²	EN700AC 0207

Cable list	Date				Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.	
	20141009				LKOL	JYA	Z3	EICU signal to LDCL added		121059	07	
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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.:		

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Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
EICC-W2131-A	1	160/2	EICC-XA : 82	1	160/2	AMS : *		160/2	2x0.75mm²	EN700AC 0207
EICC-W2131-A	2	160/2	EICC-XA : 83	2	160/2	AMS : *		160/2	2x0.75mm²	EN700AC 0207
EICC-W2131-A	Screen	160/2	EICC : EMC to Busbar		160/2	AMS : Screen		160/2	2x0.75mm²	EN700AC 0207
EICC-W2140-A	1	166/2	EICC-XA : 17	1	166/2	ECR : 0V		166/2	5x0.75mm²	EN700AC 0507
EICC-W2140-A	2	166/2	EICC-XA : 18	2	166/2	ECR : -mA		166/2	5x0.75mm²	EN700AC 0507
EICC-W2140-A	3	166/2	EICC-XA : 19	3	166/2	ECR : +mA		166/2	5x0.75mm²	EN700AC 0507
EICC-W2140-A	4	166/2	EICC-XA : 20	4	166/2	ECR : +24V		166/2	5x0.75mm²	EN700AC 0507
EICC-W2140-A	Screen	166/2	EICC : EMC to Busbar		166/2	ECR : Screen		166/2	5x0.75mm²	EN700AC 0507
EICC-W2140-B	1	166/7	EICC-XB : 17	1	166/7	ECR : 0V		166/7	5x0.75mm²	EN700AC 0507
EICC-W2140-B	2	166/7	EICC-XB : 18	2	166/7	ECR : -mA		166/7	5x0.75mm²	EN700AC 0507
EICC-W2140-B	3	166/7	EICC-XB : 19	3	166/7	ECR : +mA		166/7	5x0.75mm²	EN700AC 0507
EICC-W2140-B	4	166/7	EICC-XB : 20	4	166/7	ECR : +24V		166/7	5x0.75mm²	EN700AC 0507
EICC-W2140-B	Screen	166/7	EICC : EMC to Busbar		166/7	ECR : Screen		166/7	5x0.75mm²	EN700AC 0507
EICC-W2141-A	1	167/2	EICC-XA : 25	1	167/2	ECR-XC 2141-A : 1		167/2	2x0.75mm²	EN700AC 0207
EICC-W2141-A	2	167/2	EICC-XA : 26	2	167/2	ECR-XC 2141-A : 2		167/2	2x0.75mm²	EN700AC 0207
EICC-W2141-A	Screen	167/2	EICC : EMC to Busbar		167/2	ECR : Screen		167/2	2x0.75mm²	EN700AC 0207
EICC-W2141-B	1	167/7	EICC-XB : 25	1	167/7	ECR-XC 2141-B : 1		167/7	2x0.75mm²	EN700AC 0207
EICC-W2141-B	2	167/7	EICC-XB : 26	2	167/7	ECR-XC 2141-B : 2		167/7	2x0.75mm²	EN700AC 0207
EICC-W2141-B	Screen	167/7	EICC : EMC to Busbar		167/7	ECR : Screen		167/7	2x0.75mm²	EN700AC 0207
EICC-W2142-A	1	165/2	EICC-XA : 9	1	165/2	ECR-XC 2142-A : 1		165/2	2x0.75mm²	EN700AC 0207
EICC-W2142-A	2	165/2	EICC-XA : 10	2	165/2	ECR-XC 2142-A : 2		165/2	2x0.75mm²	EN700AC 0207
EICC-W2142-A	Screen	165/2	EICC : EMC to Busbar		165/2	ECR : Screen		165/2	2x0.75mm²	EN700AC 0207
EICC-W2142-B	1	165/7	EICC-XB : 9	1	165/7	ECR-XC 2142-B : 1		165/7	2x0.75mm²	EN700AC 0207
EICC-W2142-B	2	165/7	EICC-XB : 10	2	165/7	ECR-XC 2142-B : 2		165/7	2x0.75mm²	EN700AC 0207
EICC-W2142-B	Screen	165/7	EICC : EMC to Busbar		165/7	ECR : Screen		165/7	2x0.75mm²	EN700AC 0207
EICC-W2143-A	1	168/2	EICC-XA : 29	1	168/2	ECR-XC 2143-A : 1		168/2	2x0.75mm²	EN700AC 0207
EICC-W2143-A	2	168/2	EICC-XA : 30	2	168/2	ECR-XC 2143-A : 2		168/2	2x0.75mm²	EN700AC 0207
EICC-W2143-A	Screen	168/2	EICC : EMC to Busbar		168/2	ECR : Screen		168/2	2x0.75mm²	EN700AC 0207
EICC-W2143-B	1	168/7	EICC-XB : 29	1	168/7	ECR-XC 2143-B : 1		168/7	2x0.75mm²	EN700AC 0207
EICC-W2143-B	2	168/7	EICC-XB : 30	2	168/7	ECR-XC 2143-B : 2		168/7	2x0.75mm²	EN700AC 0207
EICC-W2143-B	Screen	168/7	EICC : EMC to Busbar		168/7	ECR : Screen		168/7	2x0.75mm²	EN700AC 0207

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 235(241)	
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	Final User Info. No.:		Final User Description:				Final User Ident. No.:		





Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.
EICC-W2180-A	1	169/2	EICC-XA : 64	1	169/2	ECR : *		169/2	2x0.75mm²	EN700AC 0207
EICC-W2180-A	2	169/2	EICC-XA : 65	2	169/2	ECR : *		169/2	2x0.75mm²	EN700AC 0207
EICC-W2180-A	Screen	169/2	EICC : EMC to Busbar		169/2	ECR : Screen		169/2	2x0.75mm²	EN700AC 0207
EICC-W2201-A	1	151/2	EICC-XA : 1	1	151/2	AMS1 : *		151/2	2x0.75mm²	EN700AC 0207
EICC-W2201-A	2	151/2	EICC-XA : 2	2	151/2	AMS1 : *		151/2	2x0.75mm²	EN700AC 0207
EICC-W2201-A	Screen	151/2	EICC : EMC to Busbar		151/2	AMS1 : Screen		151/2	2x0.75mm²	EN700AC 0207
EICC-W2201-B	1	151/7	EICC-XB : 1	1	151/7	AMS1 : *		151/7	2x0.75mm²	EN700AC 0207
EICC-W2201-B	2	151/7	EICC-XB : 2	2	151/7	AMS1 : *		151/7	2x0.75mm²	EN700AC 0207
EICC-W2201-B	Screen	151/7	EICC : EMC to Busbar		151/7	AMS1 : Screen		151/7	2x0.75mm²	EN700AC 0207
EICC-W2202-A	1	156/2	EICC-XA : 68	1	156/2	AMS : *		156/2	2x0.75mm²	EN700AC 0207
EICC-W2202-A	2	156/2	EICC-XA : 69	2	156/2	AMS : *		156/2	2x0.75mm²	EN700AC 0207
EICC-W2202-A	Screen	156/2	EICC : EMC to Busbar		156/2	AMS : Screen		156/2	2x0.75mm²	EN700AC 0207
EICC-W2202-B	1	156/7	EICC-XB : 68	1	156/7	AMS : *		156/7	2x0.75mm²	EN700AC 0207
EICC-W2202-B	2	156/7	EICC-XB : 69	2	156/7	AMS : *		156/7	2x0.75mm²	EN700AC 0207
EICC-W2202-B	Screen	156/7	EICC : EMC to Busbar		156/7	AMS : Screen		156/7	2x0.75mm²	EN700AC 0207
EICC-W2205-A	1	152/2	EICC-XA : 11	1	152/2	AMS-XC 2205-A : 1		152/2	2x0.75mm²	EN700AC 0207
EICC-W2205-A	2	152/2	EICC-XA : 12	2	152/2	AMS-XC 2205-A : 2		152/2	2x0.75mm²	EN700AC 0207
EICC-W2205-A	Screen	152/2	EICC : EMC to Busbar		152/2	AMS : Screen		152/2	2x0.75mm²	EN700AC 0207
EICC-W2207-A	1	158/2	EICC-XA : 78	1	158/2	AMS2 : *		158/2	2x0.75mm²	EN700AC 0207
EICC-W2207-A	2	158/2	EICC-XA : 79	2	158/2	AMS2 : *		158/2	2x0.75mm²	EN700AC 0207
EICC-W2207-A	Screen	158/2	EICC : EMC to Busbar		158/2	AMS2 : Screen		158/2	2x0.75mm²	EN700AC 0207
EICC-W2210-A	1	154/2	EICC-XA : 61	1	154/2	AMS : 0V		154/2	3x0.75mm²	EN700AC 0307
EICC-W2210-A	2	154/2	EICC-XA : 62	2	154/2	AMS : OUT		154/2	3x0.75mm²	EN700AC 0307
EICC-W2210-A	3	154/2	EICC-XA : 63	3	154/2	AMS : 24VDC		154/2	3x0.75mm²	EN700AC 0307
EICC-W2210-A	Screen	154/2	EICC : EMC to Busbar		154/2	AMS : Screen		154/2	3x0.75mm²	EN700AC 0307
EICC-W3040	1	182/2	EICC-XA : 31	1	182/2	PMS-X : *		182/2	2x0.75mm²	EN700AC 0207
EICC-W3040	2	182/2	EICC-XA : 32	2	182/2	PMS-X : *		182/2	2x0.75mm²	EN700AC 0207
EICC-W3040	Screen	182/2	EICC : EMC to Busbar		182/2	PMS : Screen in gland		182/2	2x0.75mm²	EN700AC 0207

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 236(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal	Page/Grid	Type	Part no.
EICC-WRCS-A	1	164/2	EICC-XRCS-A : 1	1	164/2	RCS : *	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-A	2	164/2	EICC-XRCS-A : 2	2	164/2	RCS : *	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-A	3	164/2	EICC-XRCS-A : 3	3	164/2	RCS : *	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-A	4	164/2	EICC-XRCS-A : 4	4	164/2	RCS : *	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-A	5	164/2	EICC-XRCS-A : 5	5	164/2	RCS : *	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-A	Screen	164/2	EICC-XRCS-A : 6	6	164/2	RCS : Screen	164/2	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	1	164/7	EICC-XRCS-B : 1	1	164/7	RCS : *	164/7	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	2	164/7	EICC-XRCS-B : 2	2	164/7	RCS : *	164/7	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	3	164/7	EICC-XRCS-B : 3	3	164/7	RCS : *	164/7	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	4	164/7	EICC-XRCS-B : 4	4	164/7	RCS : *	164/7	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	5	164/7	EICC-XRCS-B : 5	5	164/7	RCS : *	164/7	5x0.75mm²	EN700AC 0507
EICC-WRCS-B	Screen	164/7	EICC-XRCS-B : 6	6	164/7	RCS : Screen	164/7	5x0.75mm²	EN700AC 0507
EICC-WXNET-A	1	82/1	-EC-MOP A : 1B		81/6	-EICU-A-XNET-A : 1	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	2	82/1	-EC-MOP A : 1A		81/6	-EICU-A-XNET-A : 2	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	Screen	82/1	-EC-MOP A : Screen in Frame		81/6	-EICU-A-XNET-A : S	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	1	82/1	-MOP A : 3		81/6	-EICU-A-XNET-A : 1	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	2	82/1	-MOP A : 8		81/6	-EICU-A-XNET-A : 2	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-A	Screen	82/1	-MOP A : Screen in Frame		81/6	-EICU-A-XNET-A : S	82/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	1	91/1	-EC-MOP B : 1B		90/6	-EICU-B-XNET-B : 1	91/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	2	91/1	-EC-MOP B : 1A		90/6	-EICU-B-XNET-B : 2	91/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	Screen	91/1	-EC-MOP B : Screen in Frame		90/6	-EICU-B-XNET-B : 3	91/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	1	91/1	-MOP B : 3		90/6	-ECU-B-XNET-B : 1	91/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	2	91/1	-MOP B : 8		90/6	-ECU-B-XNET-B : 2	91/1	1x2x0.75mm²	EN700AF 0107
EICC-WXNET-B	Screen	91/1	-MOP B : Screen in Frame		90/6	-ECU-B-XNET-B : S	91/1	1x2x0.75mm²	EN700AF 0107
UPS-A-WEC-MOP A	1	131/1	-EC-MOP A : A	Power	131/1	UPS-A-X1 : 1	131/1	3x2,5mm²	EN700AC 0325
UPS-A-WEC-MOP A	2	131/1	-EC-MOP A : B		131/1	UPS-A-X1 : 2	131/1	3x2,5mm²	EN700AC 0325
UPS-A-WEC-MOP A	Screen	131/1	-EC-MOP A : C		131/1	UPS-A : EMC to Busbar	131/1	3x2,5mm²	EN700AC 0325

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
UPS-A-WECC-1	1	134/1	ECC-1-XP : 7	134/1	UPS-A-X1 : 7	134/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	2	134/1	ECC-1-XP : 8	134/1	UPS-A-X1 : 8	134/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	3	134/3	ECC-1-XP : 10	134/3	UPS-A-X1 : 9	134/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	4	134/3	ECC-1-XP : 11	134/3	UPS-A-X1 : 10	134/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	5	134/5	ECC-1-XP : 13	134/5	UPS-A-X1 : 11	134/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	6	134/5	ECC-1-XP : 14	134/5	UPS-A-X1 : 12	134/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	7	134/7	ECC-1-XP : 16	134/7	UPS-A-X1 : 13	134/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	8	134/7	ECC-1-XP : 17	134/7	UPS-A-X1 : 14	134/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	9	135/1	ECC-1-XP : 19	135/1	UPS-A-X1 : 15	135/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	10	135/1	ECC-1-XP : 20	135/1	UPS-A-X1 : 16	135/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	11	135/3	ECC-1-XP : 22	135/3	UPS-A-X1 : 17	135/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	12	135/3	ECC-1-XP : 23	135/3	UPS-A-X1 : 18	135/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	13	135/5	ECC-1-XP : 25	135/5	UPS-A-X1 : 19	135/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	14	135/5	ECC-1-XP : 26	135/5	UPS-A-X1 : 20	135/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-1	Screen	135/5	ECC-1 : EMC to Busbar	135/5	UPS-A : EMC to Busbar	135/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	1	136/1	ECC-2-XP : 1	136/1	UPS-A-X1 : 31	136/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	2	136/1	ECC-2-XP : 2	136/1	UPS-A-X1 : 32	136/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	3	136/3	ECC-2-XP : 4	136/3	UPS-A-X1 : 33	136/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	4	136/3	ECC-2-XP : 5	136/3	UPS-A-X1 : 34	136/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	5	136/5	ECC-2-XP : 7	136/5	UPS-A-X1 : 35	136/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	6	136/5	ECC-2-XP : 8	136/5	UPS-A-X1 : 36	136/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	7	136/7	ECC-2-XP : 10	136/7	UPS-A-X1 : 37	136/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	8	136/7	ECC-2-XP : 11	136/7	UPS-A-X1 : 38	136/7	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	9	137/1	ECC-2-XP : 13	137/1	UPS-A-X1 : 39	137/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	10	137/1	ECC-2-XP : 14	137/1	UPS-A-X1 : 40	137/1	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	11	137/3	ECC-2-XP : 16	137/3	UPS-A-X1 : 41	137/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	12	137/3	ECC-2-XP : 17	137/3	UPS-A-X1 : 42	137/3	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	13	137/4	ECC-2-XP : 19	137/4	UPS-A-X1 : 21	137/4	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	14	137/5	ECC-2-XP : 20	137/5	UPS-A-X1 : 22	137/5	19x2,5mm²	EN700AC 1925
UPS-A-WECC-2	S	137/5	ECC-2 : EMC to Busbar	137/5	UPS-A : EMC to Busbar	137/5	19x2,5mm²	EN700AC 1925

Cable Connection Lists

[illegible]

Cable list	Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
	20141009		LKOL	JYA	Z3	EICU signal to LDCL added		121059	07
	Scale:	Size: A3	Product Type: ME ECS 5-12 CYL				Projection: 	Page No.: 239(241)	
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			Final User Info. No.:		Final User Description:		Final User Ident. No.:		

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
UPS-B-WECC-1	1	134/1	ECC-1-XP : 7	134/1	UPS-B-X1 : 7	134/1	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	2	134/2	ECC-1-XP : 9	134/1	UPS-B-X1 : 8	134/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	3	134/3	ECC-1-XP : 10	134/3	UPS-B-X1 : 9	134/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	4	134/4	ECC-1-XP : 12	134/3	UPS-B-X1 : 10	134/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	5	134/5	ECC-1-XP : 13	134/5	UPS-B-X1 : 11	134/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	6	134/6	ECC-1-XP : 15	134/5	UPS-B-X1 : 12	134/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	7	134/7	ECC-1-XP : 16	134/7	UPS-B-X1 : 13	134/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	8	134/8	ECC-1-XP : 18	134/7	UPS-B-X1 : 14	134/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	9	135/2	ECC-1-XP : 19	135/1	UPS-B-X1 : 15	135/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	10	135/2	ECC-1-XP : 21	135/1	UPS-B-X1 : 16	135/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	11	135/3	ECC-1-XP : 22	135/3	UPS-B-X1 : 17	135/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	12	135/4	ECC-1-XP : 24	135/3	UPS-B-X1 : 18	135/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	13	135/5	ECC-1-XP : 25	135/5	UPS-B-X1 : 19	135/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	14	135/6	ECC-1-XP : 27	135/5	UPS-B-X1 : 20	135/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-1	Screen	135/6	ECC-1 : EMC to Busbar	135/6	UPS-B : EMC to Busbar	135/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	1	136/1	ECC-2-XP : 1	136/1	UPS-B-X1 : 31	136/1	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	2	136/2	ECC-2-XP : 3	136/1	UPS-B-X1 : 32	136/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	3	136/3	ECC-2-XP : 4	136/3	UPS-B-X1 : 33	136/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	4	136/4	ECC-2-XP : 6	136/3	UPS-B-X1 : 34	136/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	5	136/5	ECC-2-XP : 7	136/5	UPS-B-X1 : 35	136/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	6	136/6	ECC-2-XP : 9	136/5	UPS-B-X1 : 36	136/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	7	136/7	ECC-2-XP : 10	136/7	UPS-B-X1 : 37	136/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	8	136/8	ECC-2-XP : 12	136/7	UPS-B-X1 : 38	136/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	9	137/1	ECC-2-XP : 13	137/1	UPS-B-X1 : 39	137/1	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	10	137/2	ECC-2-XP : 15	137/1	UPS-B-X1 : 40	137/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	11	137/3	ECC-2-XP : 16	137/3	UPS-B-X1 : 41	137/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	12	137/4	ECC-2-XP : 18	137/3	UPS-B-X1 : 42	137/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	13	137/5	ECC-2-XP : 19	137/4	UPS-B-X1 : 21	137/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	14	137/5	ECC-2-XP : 21	137/5	UPS-B-X1 : 22	137/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-2	Screen	137/5	ECC-2 : EMC to Busbar	137/5	UPS-B : EMC to Busbar	137/5	19x2,5mm²	EN700AC 1925
</								

Cable Connection Lists

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
UPS-B-WECC-3	1	138/1	ECC-3-XP : 1	138/1	UPS-B-X1 : 43	138/1	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	2	138/2	ECC-3-XP : 3	138/1	UPS-B-X1 : 44	138/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	3	138/3	ECC-3-XP : 4	138/3	UPS-B-X1 : 45	138/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	4	138/4	ECC-3-XP : 6	138/3	UPS-B-X1 : 46	138/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	5	138/5	ECC-3-XP : 7	138/5	UPS-B-X1 : 47	138/5	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	6	138/6	ECC-3-XP : 9	138/5	UPS-B-X1 : 48	138/6	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	7	138/7	ECC-3-XP : 10	138/7	UPS-B-X1 : 49	138/7	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	8	138/8	ECC-3-XP : 12	138/7	UPS-B-X1 : 50	138/8	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	9	139/1	ECC-3-XP : 13	139/1	UPS-B-X1 : 51	139/1	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	10	139/2	ECC-3-XP : 15	139/1	UPS-B-X1 : 52	139/2	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	11	139/3	ECC-3-XP : 16	139/3	UPS-B-X1 : 53	139/3	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	12	139/4	ECC-3-XP : 18	139/3	UPS-B-X1 : 54	139/4	19x2,5mm²	EN700AC 1925
UPS-B-WECC-3	Screen	139/4	ECC-3 : EMC to Busbar	139/4	UPS-B : EMC to Busbar	139/4	19x2,5mm²	EN700AC 1925
UPS-B-WEICC	1	133/3	EICC-XP : 1	133/1	UPS-B-X1 : 3	133/3	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	2	133/3	EICC-XP : 3	133/1	UPS-B-X1 : 4	133/3	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	3	133/7	EICC-XP : 4	133/7	UPS-B-X1 : 5	133/7	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	4	133/8	EICC-XP : 6	133/7	UPS-B-X1 : 6	133/8	4x2,5mm²	EN700AC 0425
UPS-B-WEICC	Screen	133/8	EICC : EMC to Busbar	133/8	UPS-B : EMC to Busbar	133/8	4x2,5mm²	EN700AC 0425
UPS-B-WMOP B	1	132/7	JB MOP-B-X1 : 1	132/8	UPS-B-X1 : 1	132/7	2x10.0mm²	EN700AC 0299
UPS-B-WMOP B	2	132/8	JB MOP-B-X1 : 2	132/8	UPS-B-X1 : 2	132/8	2x10.0mm²	EN700AC 0299
UPS-B-WMOP B	Screen	132/8	JB MOP-B : EMC to Busbar	132/8	UPS-B : EMC to Busbar	132/8	2x10.0mm²	EN700AC 0299

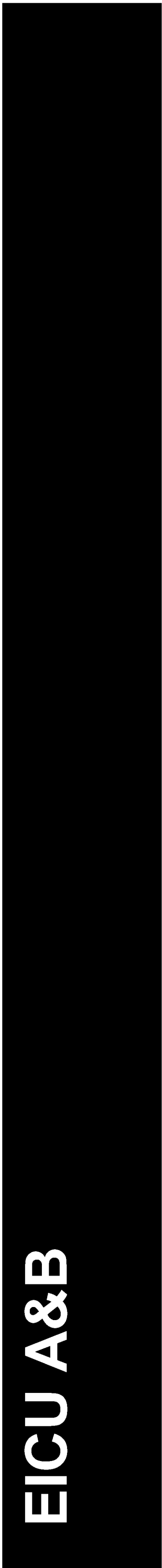
EICU A&B

Engine interface control
cabinet, FPP or CPP
depending of external
cabling

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130515	JYA	CAHV	Z3	IRM module added		03
20120113	JARY	JYA	Z3	J26 and J36 connections correc		02
20110901	JARY	JYA	Z3	Network connections corrected		01
20110505	JARY	JARY				00
Basic Standards (MBD SB):				Suppl. Drawing No.:		
EN21F-m Tolerances EN21C Surf. roughness						
Material / Blank:				Final User Material:		Mass (kg):
Scale:	Size: A3	Product Type: EICU A&B			Projection: 	Page No.: 1 (26)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	



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Date		Des.	Chk.	A.C.	Revision change		Chg. Not.	Rev.
20130515		JYA	CAHV	Z3	IRM module added			03
Scale:	Size:	Product Type:		Item Name:		Projection:	Page No.:	
	A3			EICU ASB			3 (26)	
Info. No.:		Item Name:		Item Id.:				
7B4200		ENGINE CONTROL		5260735-3				
Final User Info. No.:		Final User Description:		Final User Ident. No.:				

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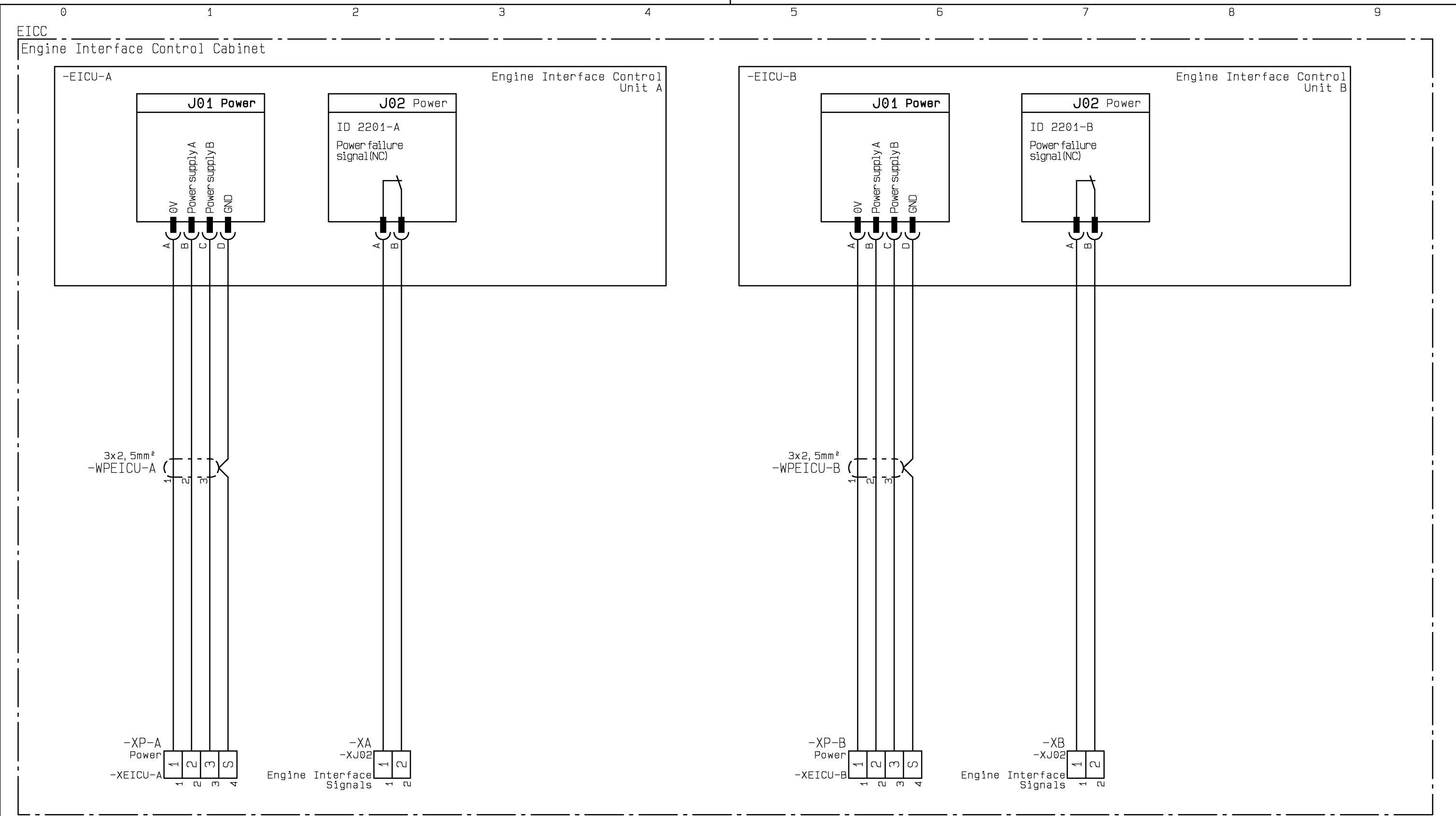
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Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

CONNECTION DIAGRAM

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130515	JYA	CAHV	Z3	IRM module added		03
Scale:	Size: A3	Product Type: EICU A&B			Projection: 	Page No.: 6 (26)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

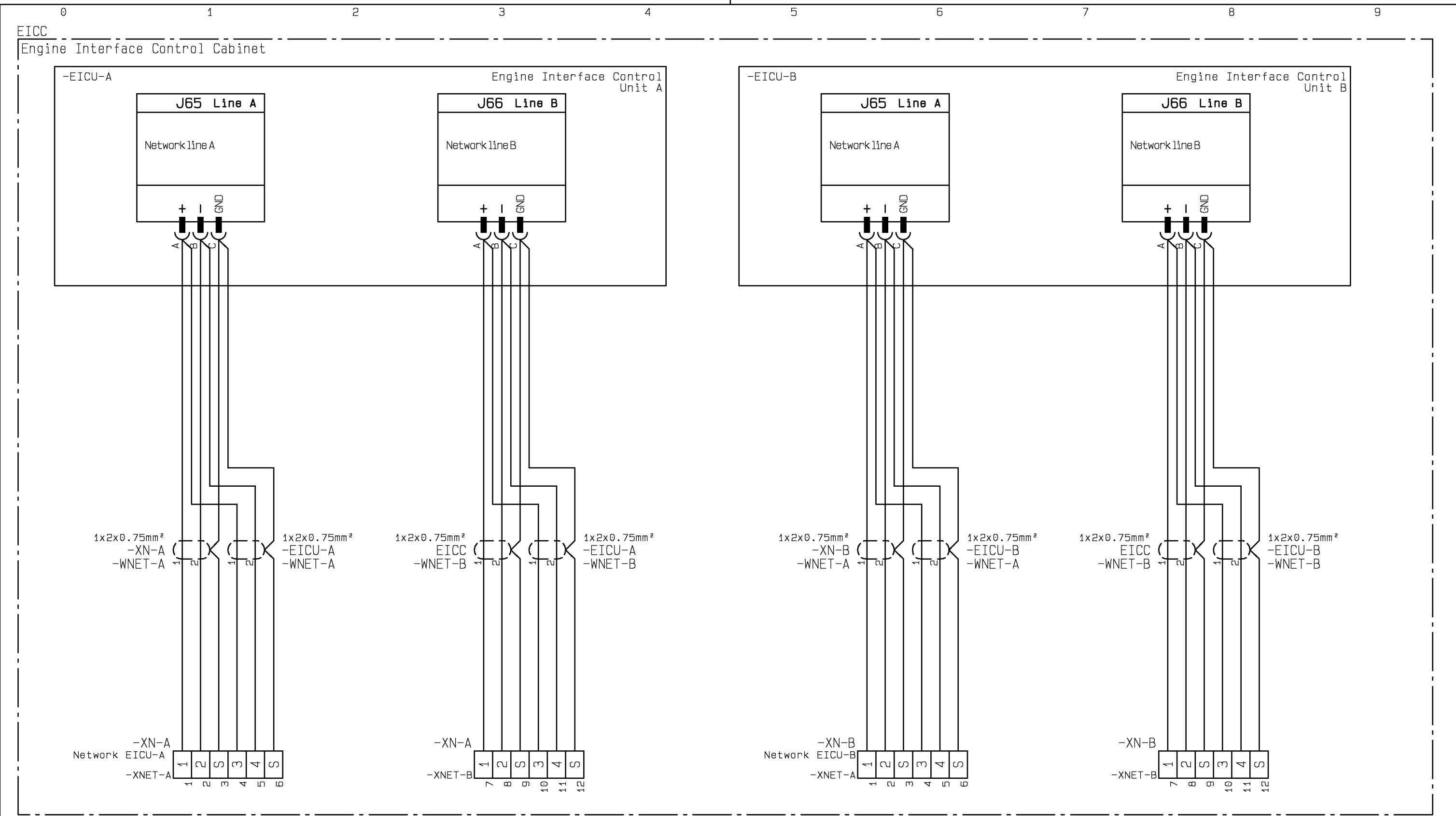


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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130515	JYA	CAHV	Z3	IRM module added		03
Scale:	Size: A3	Product Type: EICU A&B			Projection: 	Page No.: 7 (26)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

CAD Drawing - do not correct by hand - PCS Drawing

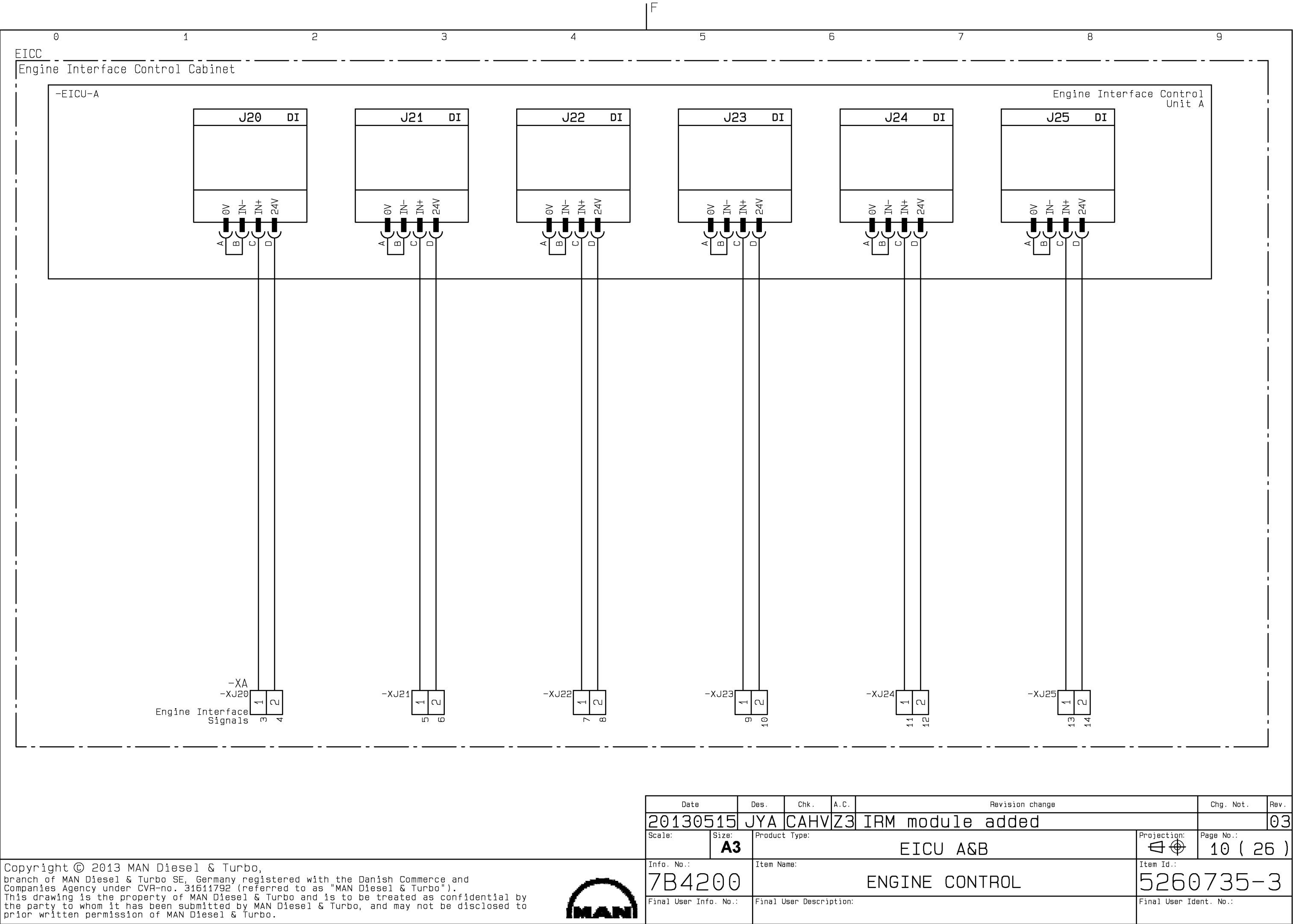


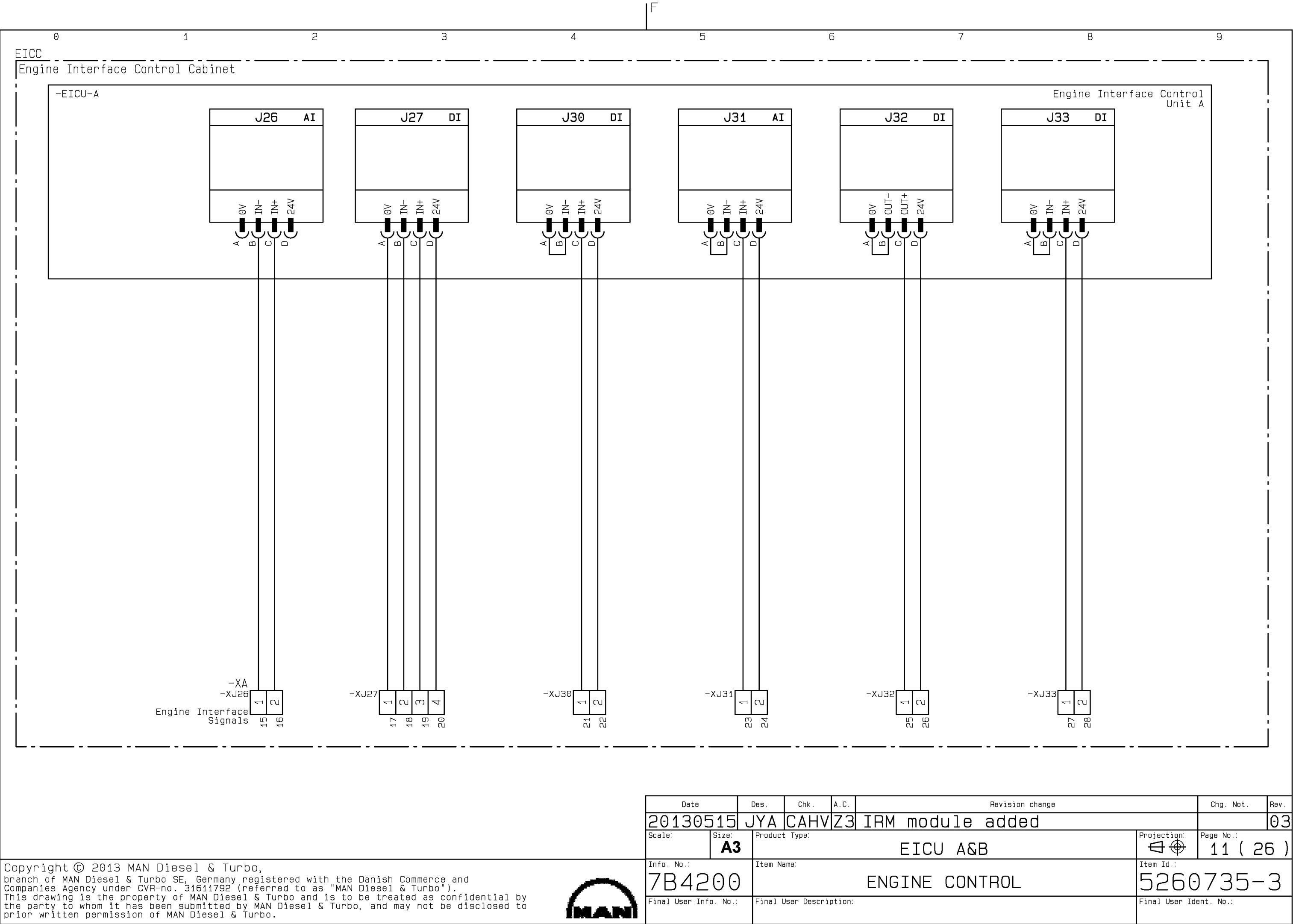
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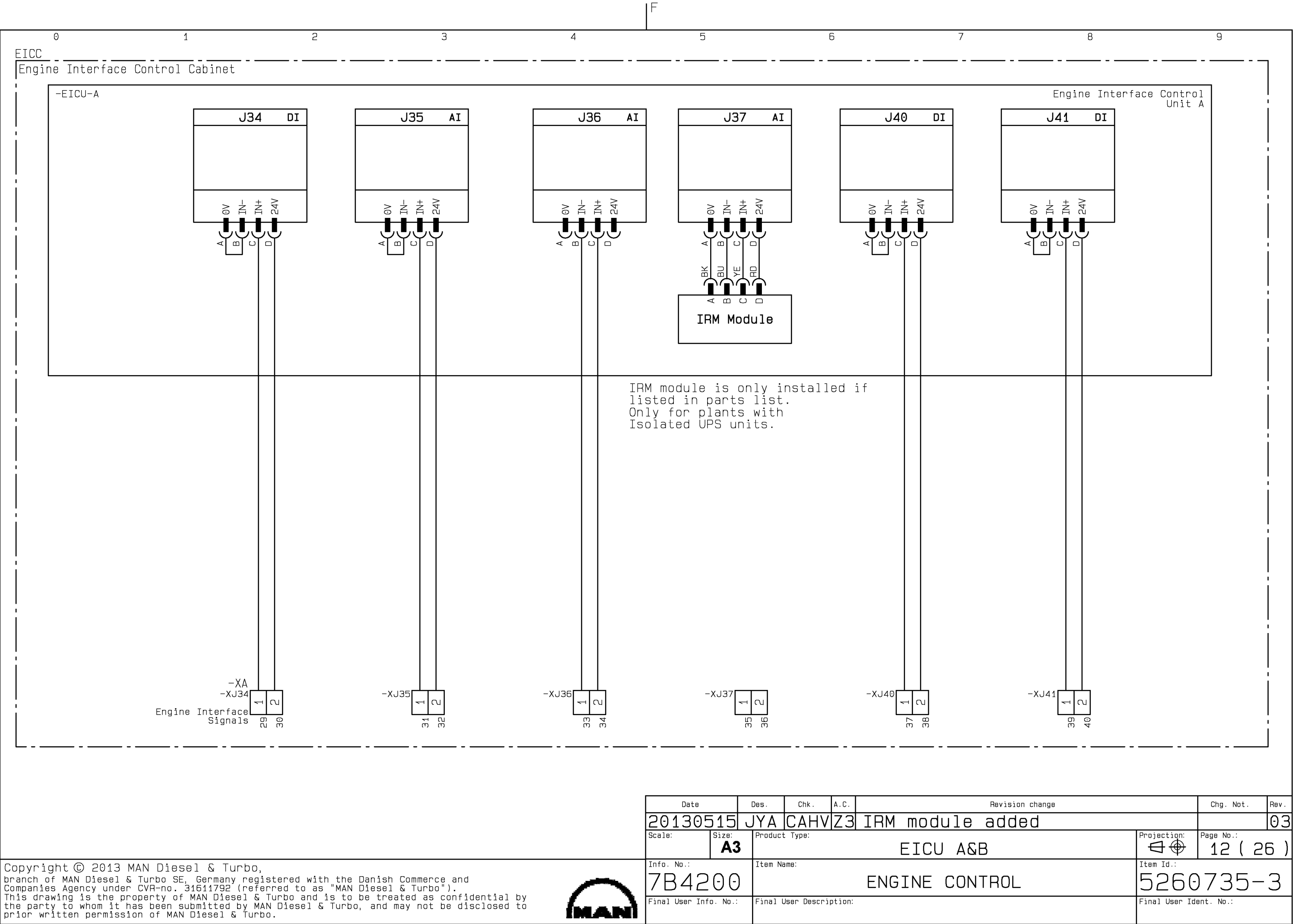


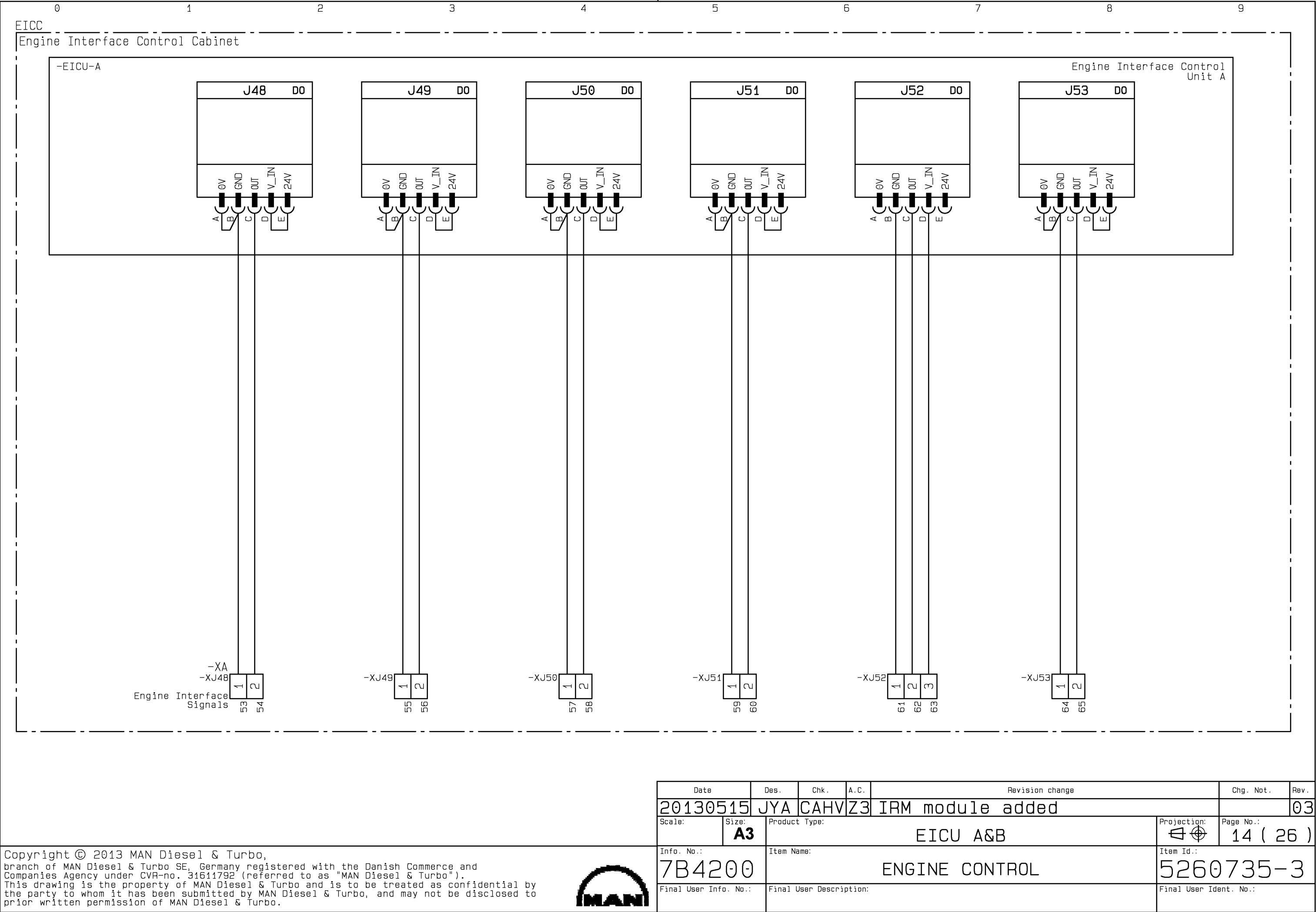
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20130515	JYA	CAHV	Z3	IRM module added		03
Scale:	Size: A3	Product Type: EICU A&B			Projection: 	Page No.: 8 (26)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

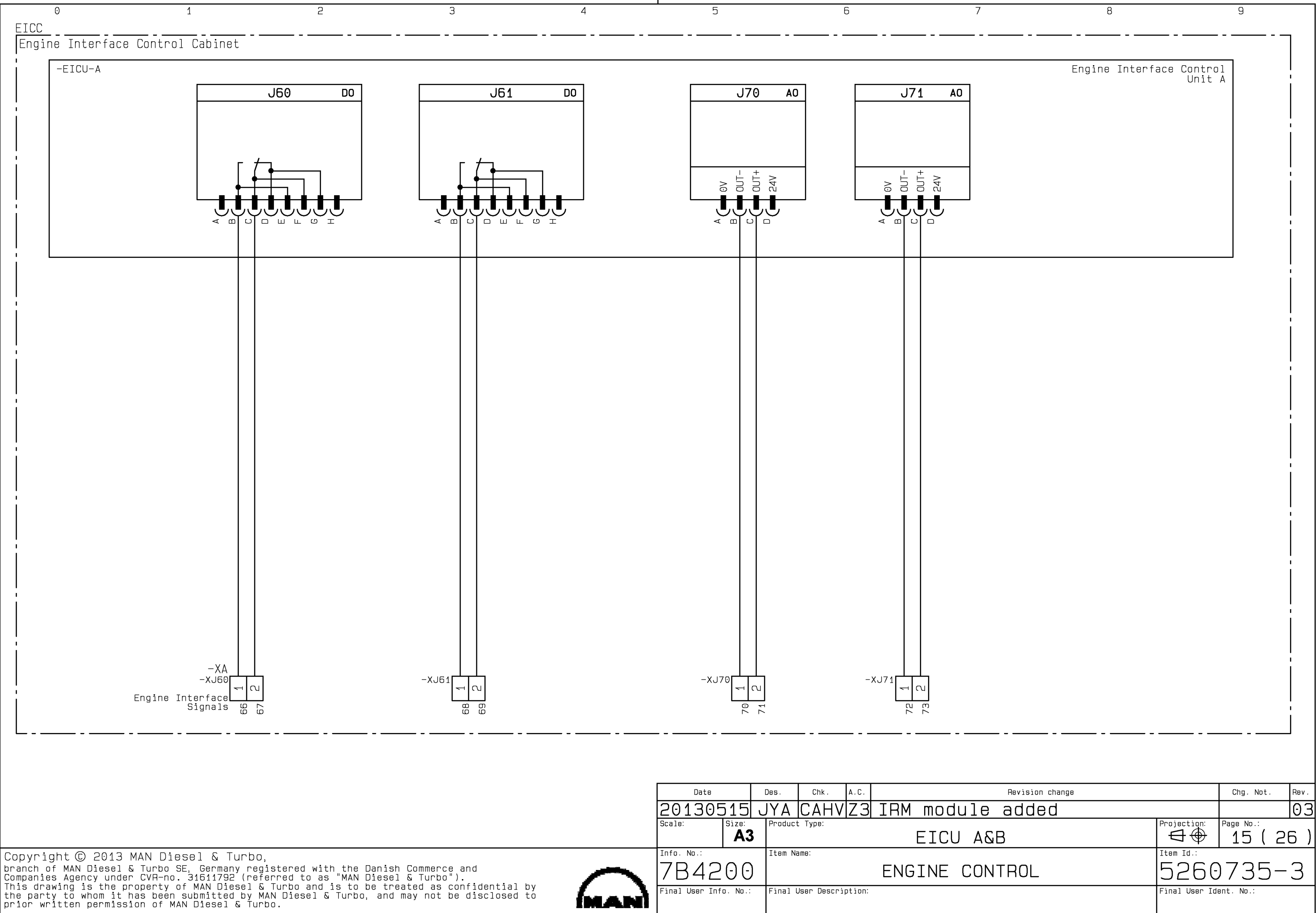
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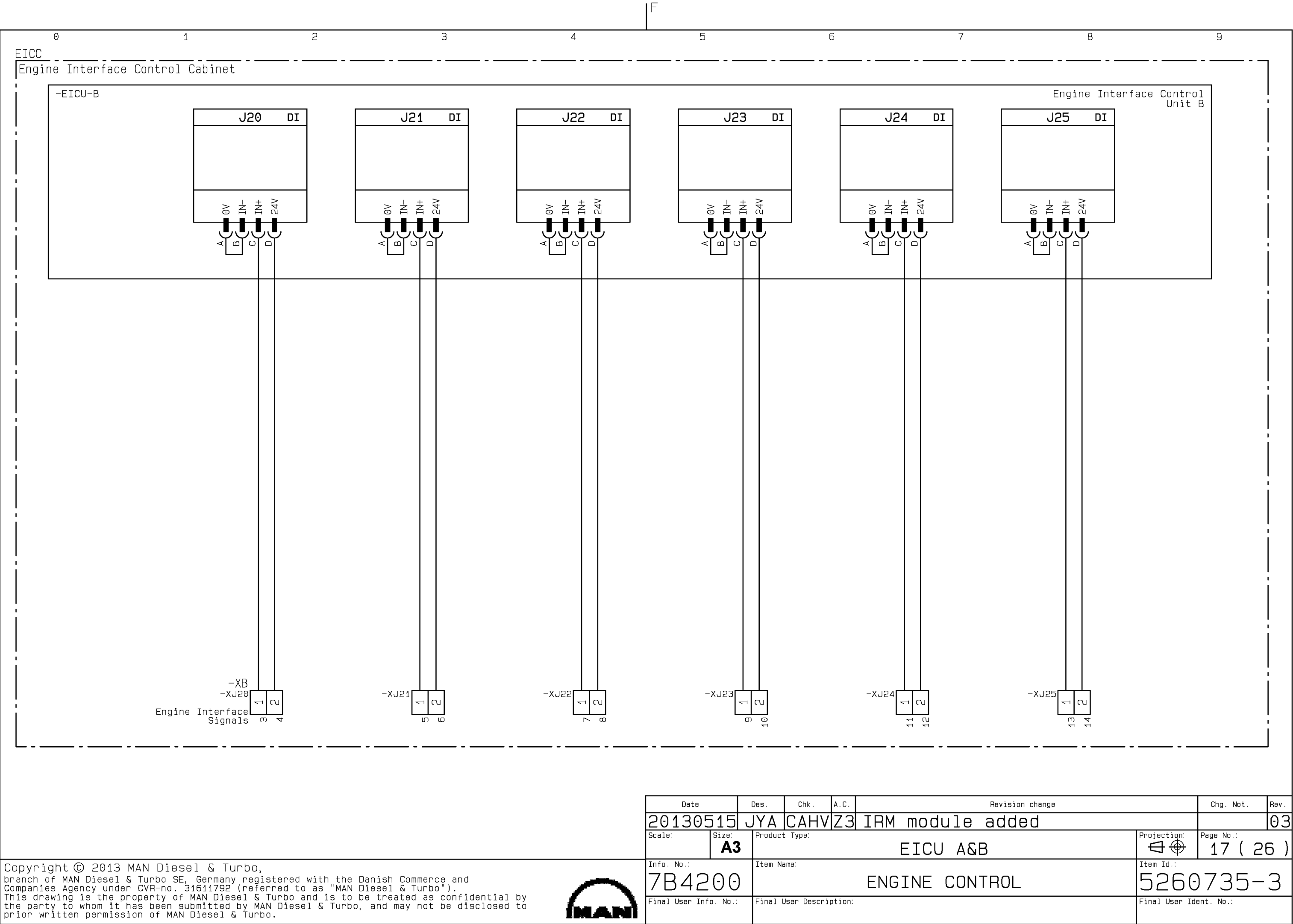


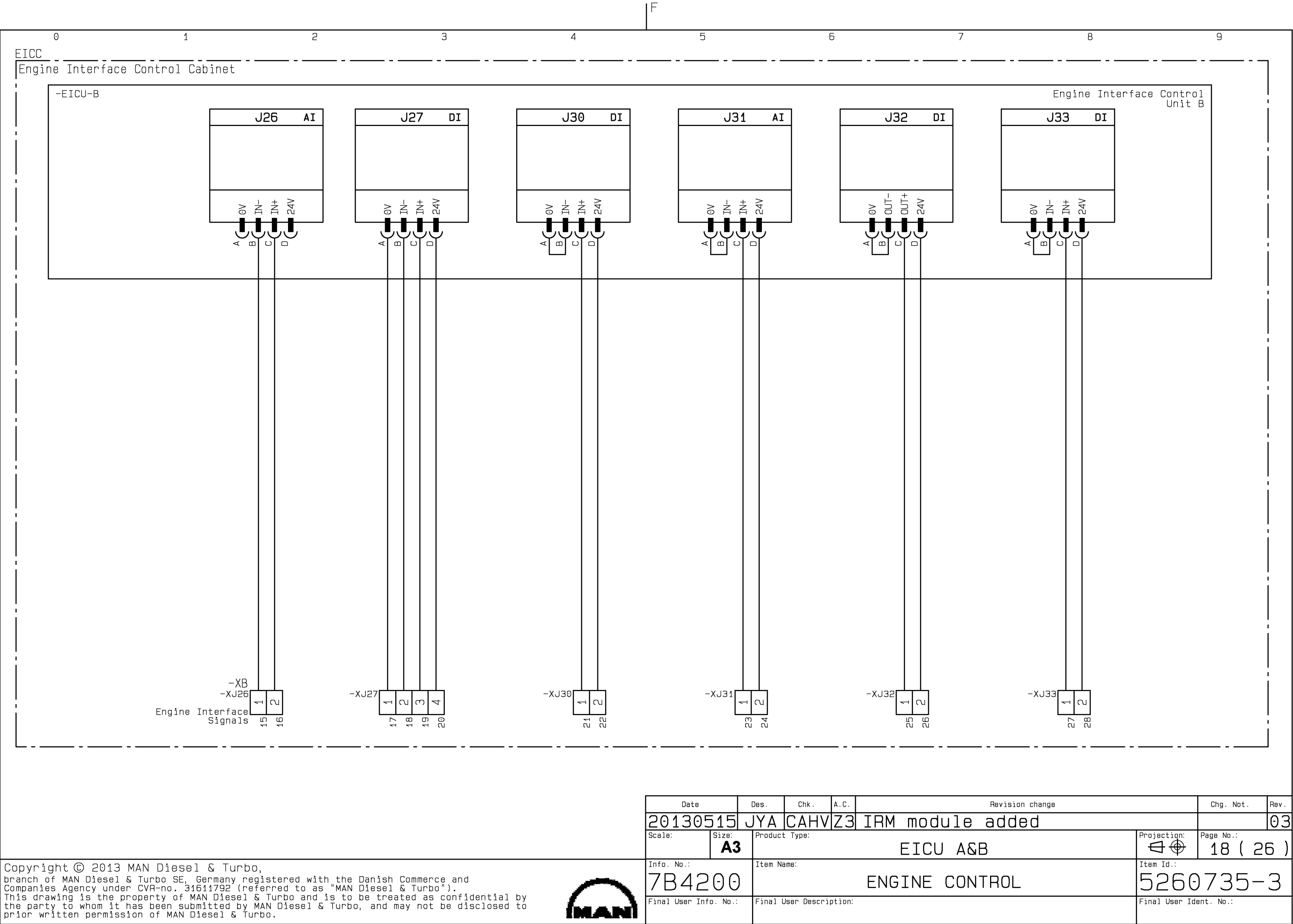


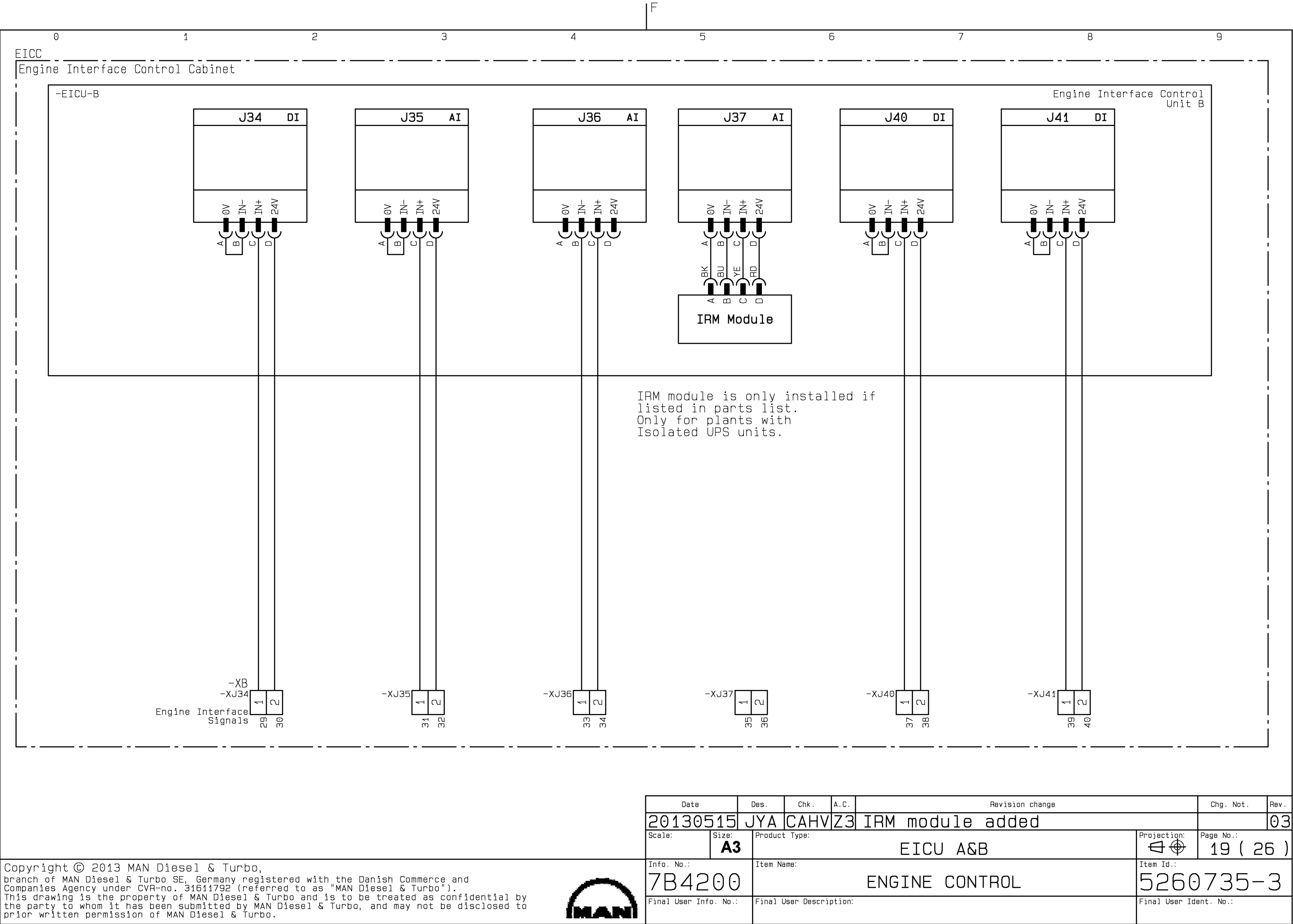


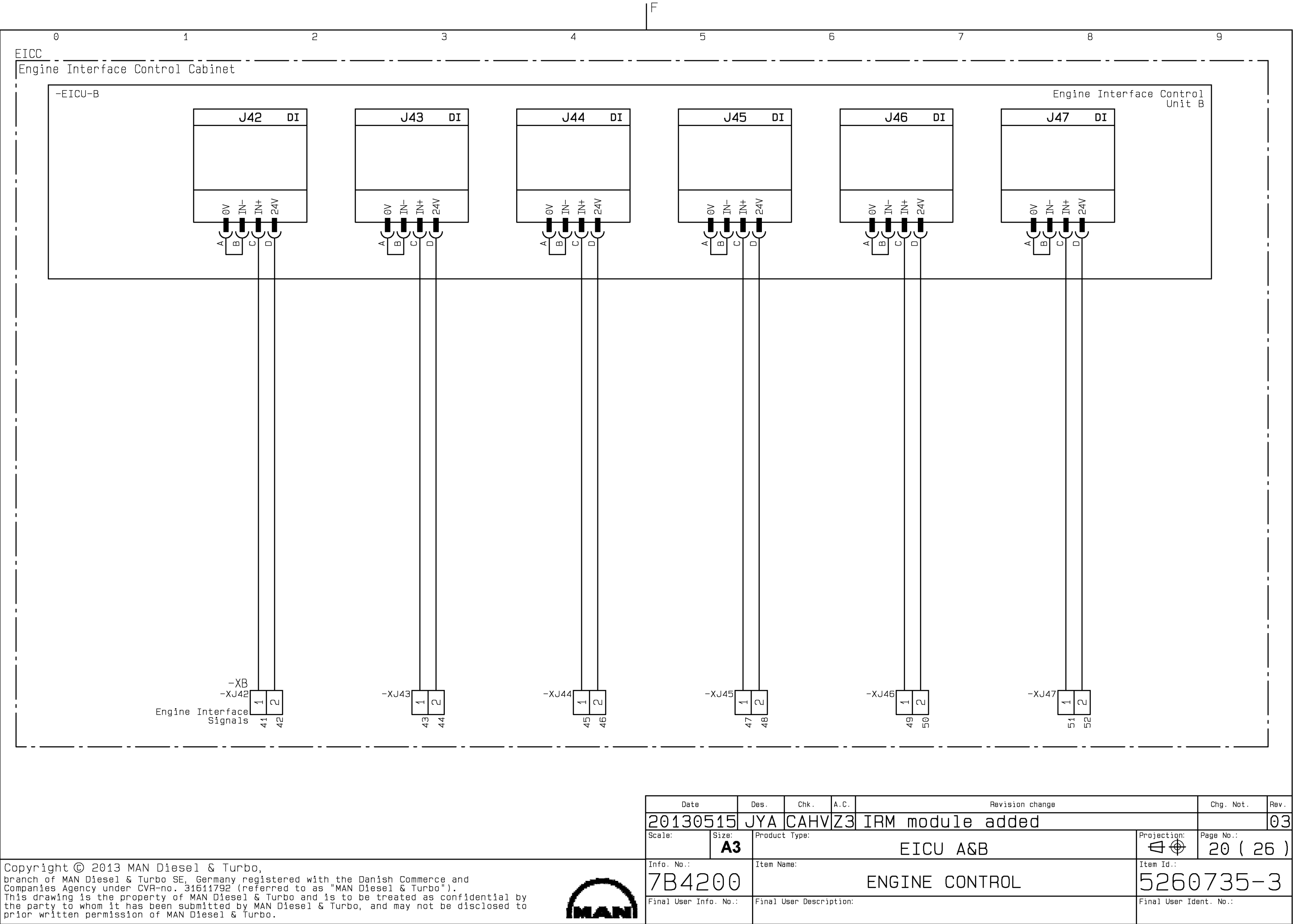


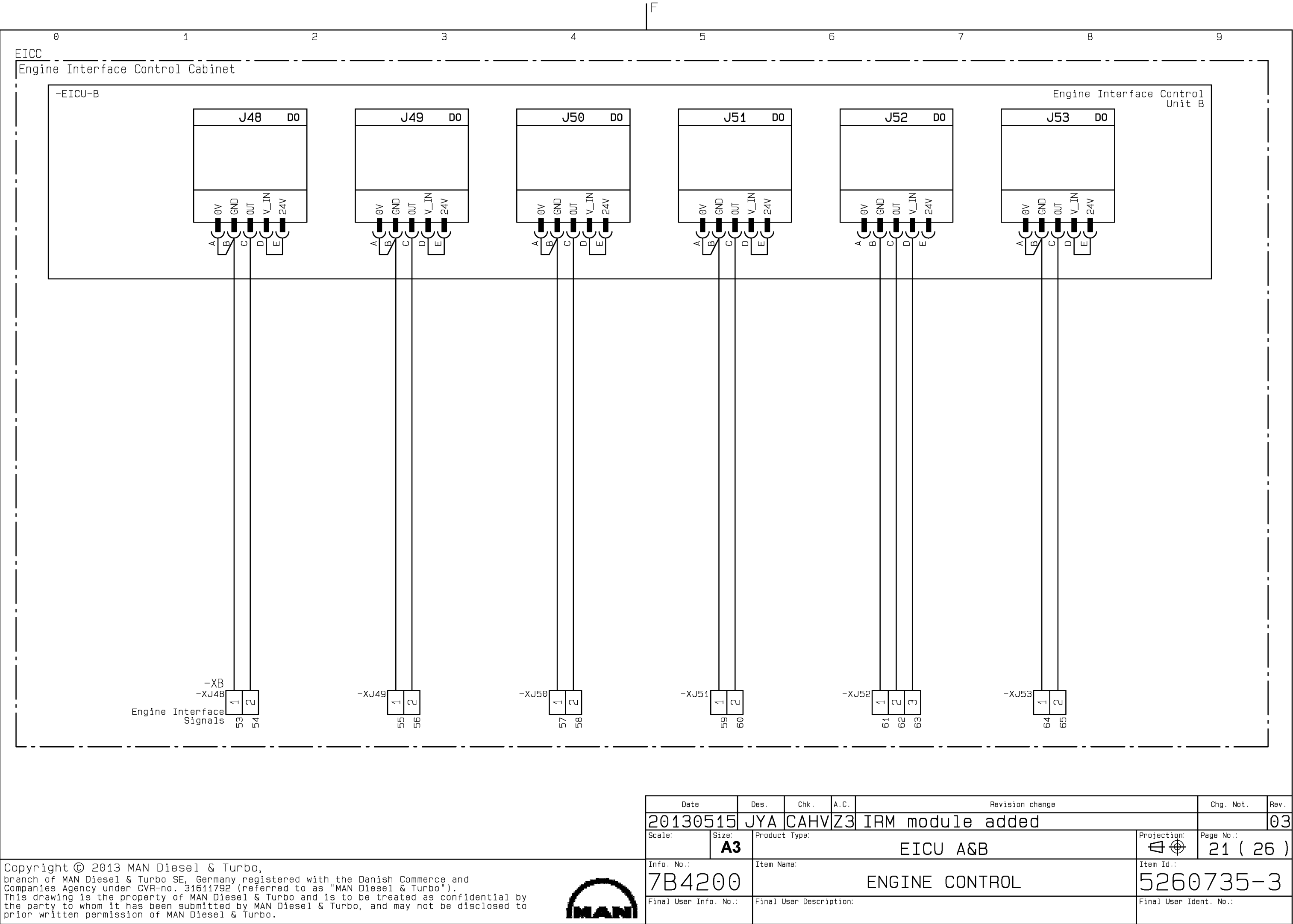


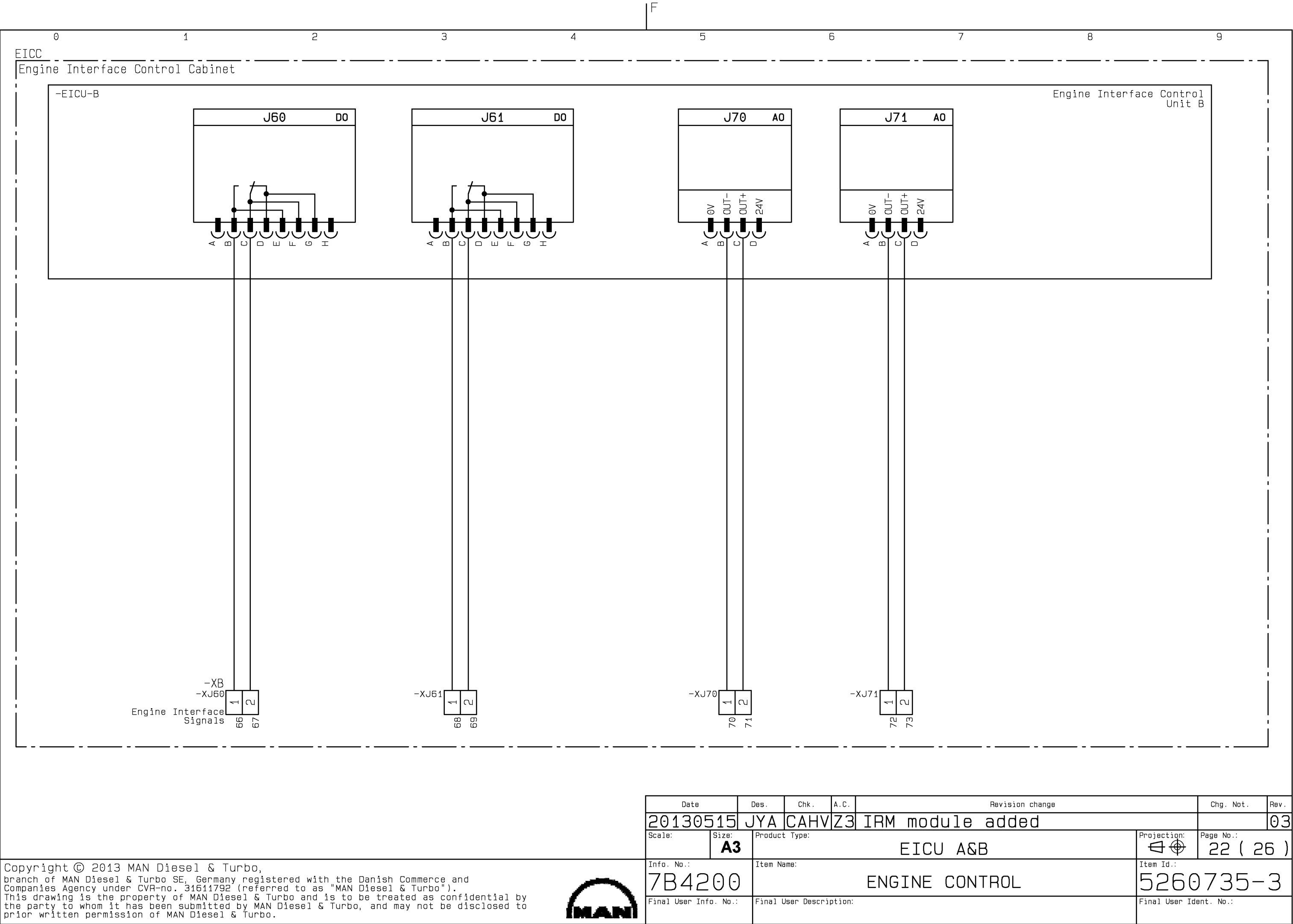












CABLE LIST

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
20130515	JYA	CAHV	Z3	IRM module added		03
Scale:	Size: A3	Product Type: EICU A&B			Projection: 	Page No.: 24 (26)
Info. No.: 7B4200		Item Name: ENGINE CONTROL			Item Id.: 5260735-3	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

Cable	Wire	Page/Grid	From : Terminal		Page/Grid	To : Terminal		Page/Grid	Type	Part no.				
-EICU-A-WNET-A	1	8/1	-EICU-A.J65 : A		8/1	EICC-XN-A : 4		8/1	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WNET-A	2	8/1	-EICU-A.J65 : B		8/1	EICC-XN-A : 5		8/1	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WNET-A	Screen	8/1	-EICU-A.J65 : C		8/1	EICC-XN-A : 6		8/1	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WNET-B	1	8/3	-EICU-A-EICU-A.J66 : A		8/3	EICC-XN-A : 10		8/3	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WNET-B	2	8/3	-EICU-A-EICU-A.J66 : B		8/3	EICC-XN-A : 11		8/3	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WNET-B	Screen	8/3	-EICU-A-EICU-A.J66 : C		8/3	EICC-XN-A : 12		8/4	1x2x0.75mm²	EN700AF 0107				
-EICU-A-WRCS	1	9/2	-EICU-A.RS422 : A	RS422	9/2	EICC-XRCS-A : 1		9/2	5x0.75mm²	EN700AC 0507				
-EICU-A-WRCS	2	9/2	-EICU-A.RS422 : C		9/2	EICC-XRCS-A : 2		9/2	5x0.75mm²	EN700AC 0507				
-EICU-A-WRCS	3	9/2	-EICU-A.RS422 : D		9/2	EICC-XRCS-A : 3		9/2	5x0.75mm²	EN700AC 0507				
-EICU-A-WRCS	4	9/2	-EICU-A.RS422 : E		9/2	EICC-XRCS-A : 4		9/2	5x0.75mm²	EN700AC 0507				
-EICU-A-WRCS	5	9/2	-EICU-A.RS422 : F		9/2	EICC-XRCS-A : 5		9/2	5x0.75mm²	EN700AC 0507				
-EICU-A-WRCS	Screen	9/2	-EICU-A.RS422 : H		9/2	EICC-XRCS-A : 6		9/2	5x0.75mm²	EN700AC 0507				
-EICU-B-WNET-A	1	8/6	-EICU-B-EICU-B.J65 : A		8/6	EICC-XN-B : 4		8/6	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WNET-A	2	8/6	-EICU-B-EICU-B.J65 : B		8/6	EICC-XN-B : 5		8/6	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WNET-A	Screen	8/6	-EICU-B-EICU-B.J65 : C		8/6	EICC-XN-B : 6		8/6	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WNET-B	1	8/8	-EICU-B-EICU-B.J66 : A		8/8	EICC-XN-B : 10		8/8	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WNET-B	2	8/8	-EICU-B-EICU-B.J66 : B		8/8	EICC-XN-B : 11		8/8	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WNET-B	Screen	8/8	-EICU-B-EICU-B.J66 : C		8/8	EICC-XN-B : 12		8/8	1x2x0.75mm²	EN700AF 0107				
-EICU-B-WRCS	1	9/7	-EICU-B.RS422 : A	RS422	9/7	EICC-XRCS-B : 1		9/7	5x0.75mm²	EN700AC 0507				
-EICU-B-WRCS	2	9/7	-EICU-B.RS422 : C		9/7	EICC-XRCS-B : 2		9/7	5x0.75mm²	EN700AC 0507				
-EICU-B-WRCS	3	9/7	-EICU-B.RS422 : D		9/7	EICC-XRCS-B : 3		9/7	5x0.75mm²	EN700AC 0507				
-EICU-B-WRCS	4	9/7	-EICU-B.RS422 : E		9/7	EICC-XRCS-B : 4		9/7	5x0.75mm²	EN700AC 0507				
-EICU-B-WRCS	5	9/7	-EICU-B.RS422 : F		9/7	EICC-XRCS-B : 5		9/7	5x0.75mm²	EN700AC 0507				
-EICU-B-WRCS	Screen	9/7	-EICU-B.RS422 : H		9/7	EICC-XRCS-B : 6		9/7	5x0.75mm²	EN700AC 0507				
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					20130515		JYA	CAHV	Z3	IRM module added				03
					Scale:	Size:	Product Type:				Projection:	Page No.:		
						A3	EICU A&B					25 (26)		
					Info. No.:		Item Name:				Item Id.:			
7B4200		ENGINE CONTROL				5260735-3								
Final User Info. No.:		Final User Description:				Final User Ident. No.:								

Cable	Wire	Page/Grid	From : Terminal	Page/Grid	To : Terminal	Page/Grid	Type	Part no.
EICC-WNET-B	1	8/8	-EICU-B-EICU-B.J66 : A	8/8	EICC-XN-B : 7	8/8	1x2x0.75mm²	EN700AF 0107
EICC-WNET-B	2	8/8	-EICU-B-EICU-B.J66 : B	8/8	EICC-XN-B : 8	8/8	1x2x0.75mm²	EN700AF 0107
EICC-WNET-B	Screen	8/8	-EICU-B-EICU-B.J66 : C	8/8	EICC-XN-B : 9	8/8	1x2x0.75mm²	EN700AF 0107
EICC-WNET-B	1	8/3	-EICU-A-EICU-A.J66 : A	8/3	EICC-XN-A : 7	8/3	1x2x0.75mm²	EN700AF 0107
EICC-WNET-B	2	8/3	-EICU-A-EICU-A.J66 : B	8/3	EICC-XN-A : 8	8/3	1x2x0.75mm²	EN700AF 0107
EICC-WNET-B	Screen	8/3	-EICU-A-EICU-A.J66 : C	8/3	EICC-XN-A : 9	8/3	1x2x0.75mm²	EN700AF 0107
EICC-WPEICU-A	1	7/1	-EICU-A.J01 : A	7/1	EICC-XP-A : 1	7/1	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	2	7/1	-EICU-A.J01 : B	7/1	EICC-XP-A : 2	7/1	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	3	7/1	-EICU-A.J01 : C	7/1	EICC-XP-A : 3	7/1	3x2,5mm²	EN700AC 0325
EICC-WPEICU-A	Screen	7/1	-EICU-A.J01 : D	7/1	EICC-XP-A : 4	7/1	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	1	7/5	-EICU-B.J01 : A	7/5	EICC-XP-B : 1	7/5	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	2	7/6	-EICU-B.J01 : B	7/6	EICC-XP-B : 2	7/6	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	3	7/6	-EICU-B.J01 : C	7/6	EICC-XP-B : 3	7/6	3x2,5mm²	EN700AC 0325
EICC-WPEICU-B	Screen	7/6	-EICU-B.J01 : D	7/6	EICC-XP-B : 4	7/6	3x2,5mm²	EN700AC 0325
EICC-XN-A -WNET-A	1	8/1	-EICU-A.J65 : A	8/1	EICC-XN-A : 1	8/1	1x2x0.75mm²	EN700AF 0107
EICC-XN-A -WNET-A	2	8/1	-EICU-A.J65 : B	8/1	EICC-XN-A : 2	8/1	1x2x0.75mm²	EN700AF 0107
EICC-XN-A -WNET-A	Screen	8/1	-EICU-A.J65 : C	8/1	EICC-XN-A : 3	8/1	1x2x0.75mm²	EN700AF 0107
EICC-XN-B -WNET-A	1	8/6	-EICU-B-EICU-B.J65 : A	8/6	EICC-XN-B : 1	8/6	1x2x0.75mm²	EN700AF 0107
EICC-XN-B -WNET-A	2	8/6	-EICU-B-EICU-B.J65 : B	8/6	EICC-XN-B : 2	8/6	1x2x0.75mm²	EN700AF 0107
EICC-XN-B -WNET-A	Screen	8/6	-EICU-B-EICU-B.J65 : C	8/6	EICC-XN-B : 3	8/6	1x2x0.75mm²	EN700AF 0107

Info. No.: 7B4210		Item Name: Power Supply			Item Id.: 0788965-1	
Scale:	Size: A4	Product Type: ME Requirements		Page No.: 1 (2)	Projection: 	MAN Diesel & Turbo
Date	Des.	Chk.	A.C.	Revision Change		Chg. Not. Rev.
20020801	DFA	JHV	-			00
20070109	DFA	HKP	Z3	Suppl. Drwg.: 0788139-6 and battery back-up		05
20110203	JYA	JYA	Z3	Isometer requirements added		06
20110519	JYA	JYA	X3	Separation from other systems specified		07

Power supply requirements for ME Engine Control System (ECS)

The Engine Control System requires two separate power supplies as shown on Fig 1, with battery back-up on system A and B.

The ME-ECS power supplies must be separated from other DC systems, i.e. only ME-ECS components must be connected to the supplies.

Data for supply A:

System	IT (Floating), DC system
Voltage:	24 VDC
Protection	Under voltage (18 VDC), High Voltage (31 VDC), Earth failure ¹
Alarms as potential free contacts	Under voltage (18 VDC), High Voltage (31 VDC), Earth failure, Mains failure

1) Specific requirements for Earth failure protection are:

- Measuring voltage max. $\pm 12V$
- Alarm response time ≤ 30 sec.
- Alarm level adjustment from $1k\Omega$ to $1M\Omega$
- Permissible system leakage capacitance $\leq 400\mu F$
- Measuring current $\leq 0.5mA$
- Internal impedance $\geq 180k\Omega$
- Fault type Asymmetric and symmetric
- Local readout of isolation level & analog output for remote logging

Please refer to MAN Diesel & Turbo UPS design for specification of approved isometers.

Data for supply B:

System	IT (Floating), DC system
Voltage:	24 VDC
Protection	Under voltage (18 VDC), High Voltage (31 VDC)
Alarms as potential free contacts	Under voltage (18 VDC), High Voltage (31 VDC), Mains failure

Capacity of each supply dependent on the cylinder quantity of the engines.

	4. Cyl	5. Cyl	6. Cyl	7. Cyl	8. Cyl	9. Cyl
Capacity	1200 W	1300 W	1400 W	1500 W	1600 W	1700 W
No of breakers (MBC)	19	20	21	22	23	24
Breakers size	17 pcs 16A 2 pcs 6A	18 pcs 16A 2 pcs 6A	19 pcs 16A 2 pcs 6A	20 pcs 16A 2 pcs 6A	21 pcs 16A 2 pcs 6A	22 pcs 16A 2 pcs 6A

	10. Cyl	11. Cyl	12. Cyl
Capacity	1800 W	1900 W	2000 W
No of breakers (MBC)	25	26	27
Breakers size	23 pcs 16A 2 pcs 6A	24 pcs 16A 2 pcs 6A	25 pcs 16A 2 pcs 6A



Info. No.: 7B4210		Item Name: Power Supply			Item Id.: 0788965-1	
Scale:	Size: A4	Product Type: ME Requirements		Page No.: 2 (2)	Projection: 	MAN Diesel & Turbo
Date	Des.	Chk.	A.C.	Revision Change		Chg. Not.
20110519	JYA	JYA	X3	Separation from other systems specified		07

Battery Capacity

Capacity	Deliver 40 amp in 30 min
	After 30 minutes voltage minimum 21,6 VDC

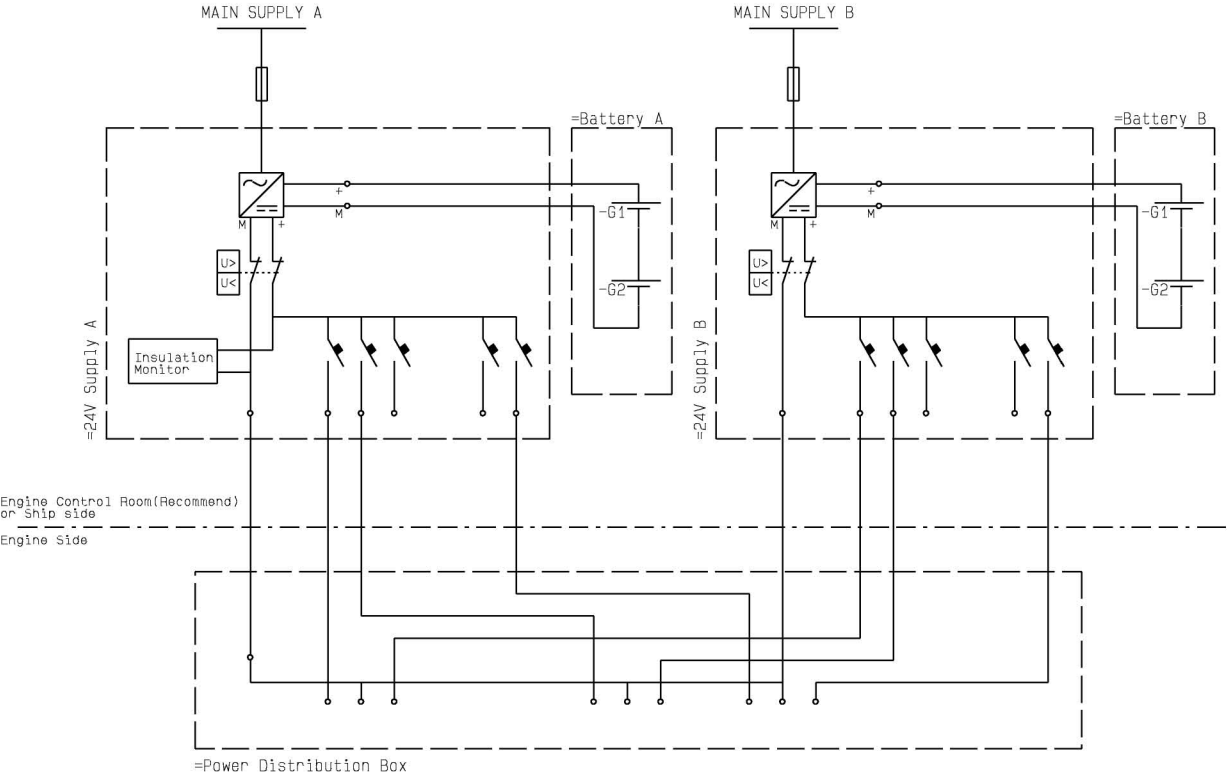


Fig. 1 : Diagram of power supply system ECS.

As indicated, Main Supply A & B must come from separate parts of ships Main supply.

Final User Info No.		Type		Final User Ident. No.	
		Installation Instruction		NO.6	
Info No.	A	Description		Ident. No.	
7 95 128	4	CABLES, MOUNTING INSTR.		0788967-5	
Suppl. Drwg.:				Page No.: 1 (4)	
Date	Des.	Chk.	Appd.	A.C.	Replacement for
20020822	DFA	JHV	JHV	*	Part No. Drwg. No. 0
20040506	DFA	JHV	JHV	Z4	Twin cable ferrules added. 1
20061220	DFA	CTE	HKP	Z4	Info no. changed to 795128. 2
20070212	DFA	CTE	CTE	Z4	Minimun cable changed to 0.75 mm ² and ME-B added. 3
				*	4
				*	5
				*	6
				*	7
				*	8
				*	9
Replaced by			Part No.		Drwg. No.

Electronically Controlled Engine

Electrical Installation Instruction

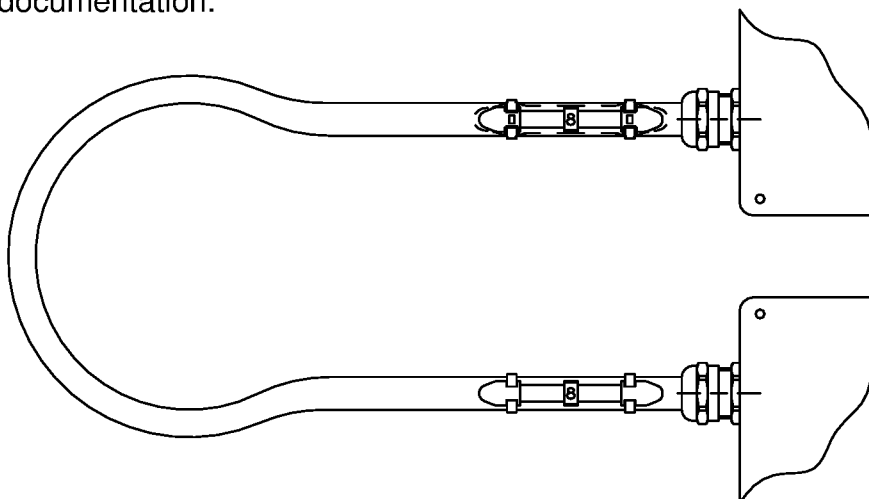
1.0 Cables

Cables are to be of a minimum of 0.75 mm². All cables must be screened to avoid electromagnetic interference. Furthermore according to our specifications, some cables must be of the type "individually screened pairs" to avoid interference.

Cable runs should be selected to be as straight and accessible as possible. The cables are to be mounted on cable trays, which are fixed to the engine or to the ship's structure. The cables are to be efficiently strapped, without being damaged, to the trays individually or in bounds with suitable flame retarding cable straps.

The spacing between cable straps is to be no less than 200 mm for cables with a diameter of ≤20 mm, and no less than 400 mm for cables with a diameter of more than 20 mm.

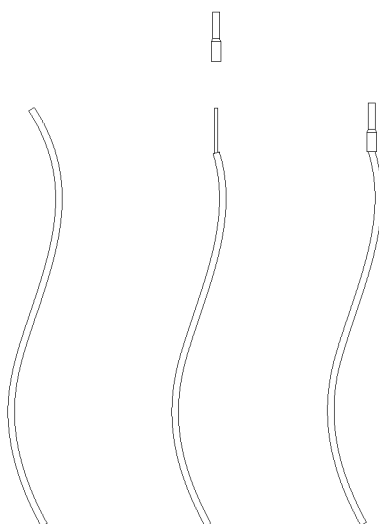
All cables are to be marked in both ends with suitable cable marking labels, according to the electrical documentation.



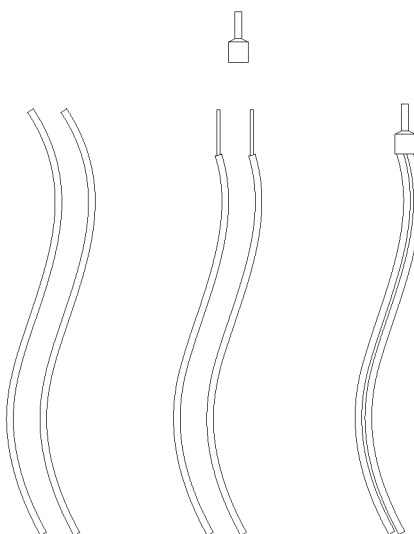
Final User Info No.		Type				Final User Ident. No.		
Info No.		A 4	Description				Ident. No.	
7 95 128			CABLES, MOUNTING INSTR.				0788967-5	
Suppl. Drwg.:						Page No.:		2 (4)
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement			C.No.
20070212	DFA	CTE	CTE	z4	Minimum cable changed to 0.75 mm ² and ME-B added.			3

2.0 Cable ends

All cable ends are to be fitted with a suitable cable ferrule. No soldering can be accepted on cable ends. Suitable wire marking labels must be fitted on each wire, indicating the connection designation, e.g. BCU/J5: 2.



When two wires are to be connected to the same terminal twin cable ferrules are to be used.

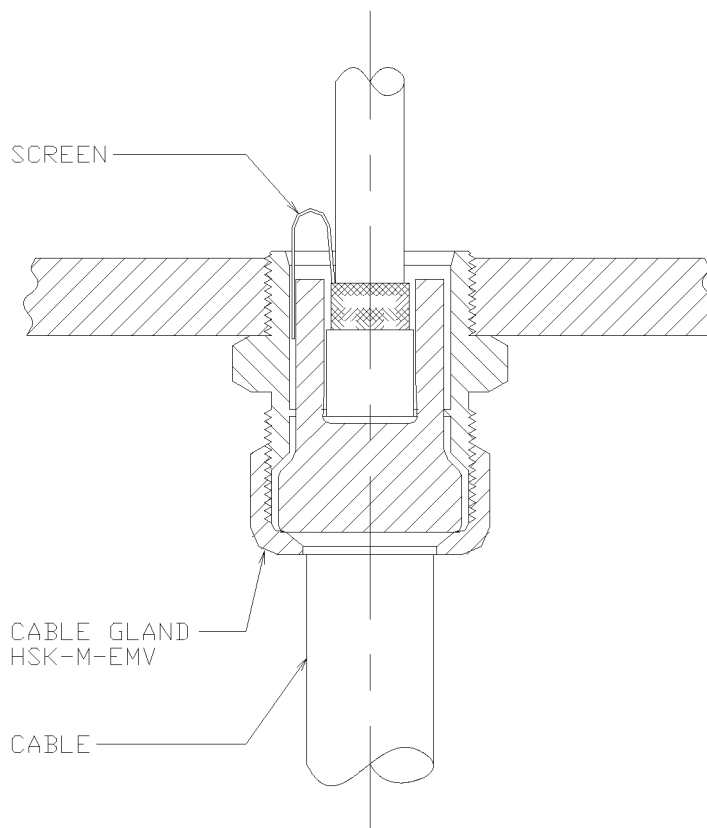
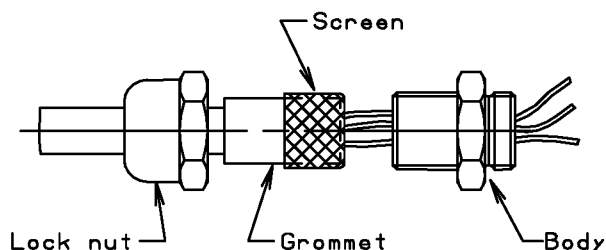


Final User Info No.		Type Installation Instruction				Final User Ident. No.		
Info No. 7 95 128		A 4	Description CABLES, MOUNTING INSTR.				Ident. No. 0788967-5	
Suppl. Drwg.:					Page No.: 3 (4)			
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement			C.No.
20070212	DFA	CTE	CTE	z4	Minimun cable changed to 0.75 mm ² and ME-B added.			3

3.0 Cable glands

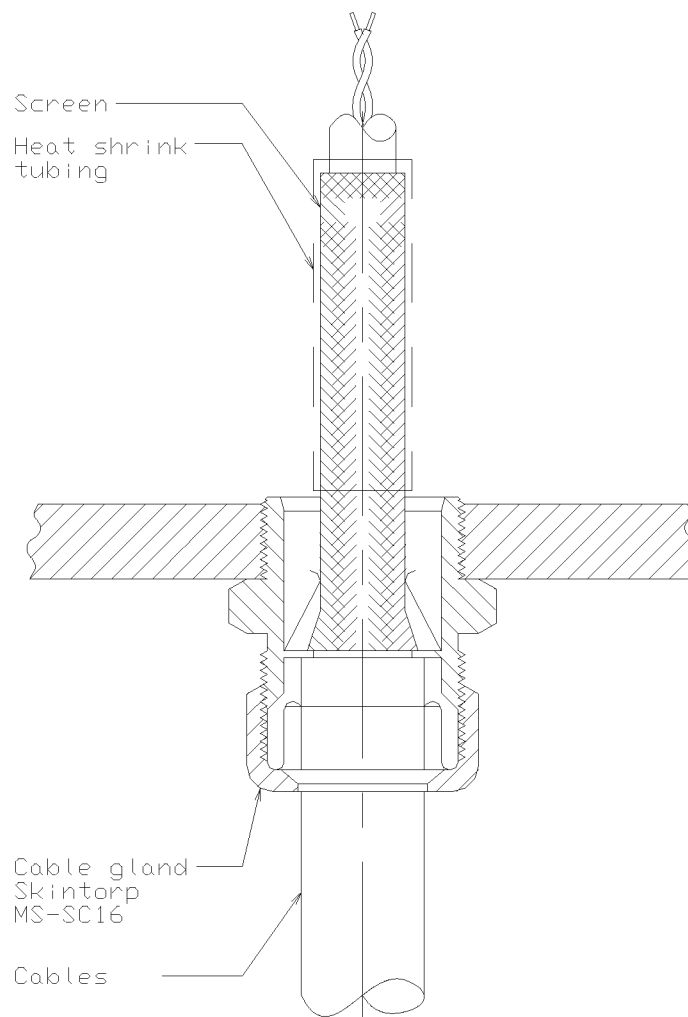
The cable glands of the ME or ME-B Control System terminal boxes are of the EMC type. It is therefore vital that the screen of the cable is correctly mounted.

Pull the lock nut and the grommet over the cable. Strip the cable. Fold the screen over the grommet. Push the grommet with the cable into the body and tighten the lock nut.



Final User Info No.		Type				Final User Ident. No.		
Info No.		A 4	Description				Ident. No.	
7 95 128			CABLES, MOUNTING INSTR.				0788967-5	
Suppl. Drwg.:						Page No.:		4 (4)
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement			C.No.
20070212	DFA	CTE	CTE	z4	Minimun cable changed to 0.75 mm ² and ME-B added.			3

For network and power cables, the screen is to be led into the box and also terminated in the cable gland with the contact spring. Heat shrink tubing must be mounted over the screen.



This also applies for ELFI power FIVA power and swash plate power cable. Further more the screen drain wire of these cables is to be terminated on the amplifier in CCU and ACU.

文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5		
HPSCR		台 份 Set No.				
		工程编号 Engine No.				
		船 厂 Shipyard		NTS		
		船 号 Hull No.		0311113/14/15/16		
		船级社 Classification Society		ABS		
CMD-MAN B&W 6G60ME-C MK9.5 LIST OF INSTRUMENTS 4. 主机仪表、传感器、开关						
						5
						4
						3
						2
						1
修 改 说 明 Corrected Description						
						5
						4
						3
						2
						1
易志银 20170308	王勇 20170308	杜清 20170308				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
 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.	D65219785-8	

FUEL OIL SYSTEM

Symbol	Structure No	Pos.No	Description	Remarks
PI 8001	21-7410	442CA	Fuel oil inlet, LOP	
PT 8001	21-7410	442JB	Fuel oil inlet	
TI 8005	21-7410	442UE	Fuel oil inlet	
TE 8005	21-7410	442VA	Fuel oil inlet	

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151222	侯冻	宁军		-	CE0488K NX		00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:		Mass (kg):
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME - C9.5			01 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

LUBRICATION OIL SYSTEM

Symbol	Structure	Pos.No	Description	Remarks
PI 8103	21-7410	442JA	Lubricating oil inlet to turbo charger	1/TC
PT 8103	21-7410	442JA	Lubricating oil inlet to turbo charger	1/TC
PS 8103		442JA	Lubricating oil inlet to turbo charger	1/TC
TI 8106	21-7410	122C	Thrust bearing	
TE 8106	21-7410	122C	Thrust bearing	
TS 8107	21-7410	122C	Thrust bearing	
PI 8108	21-7410	442JG	Lub oil inlet to main bearing and thrust bearing	Referenced 1800mm above cl of crankshaft
PI 8108	21-7410	442CA	System lubricating oil inlet, LOP	
PI 8108-1		442CG	Piston cooling oil inlet	
PT 8108	21-7410	442JG	Lub oil inlet to main bearing and thrust bearing	Referenced 1800mm above cl of crankshaft
PT 8108-1		442JM	Piston cooling oil inlet	
PS 8109	21-7410	442JG	Lub oil inlet to main bearing and thrust bearing	Referenced 1800mm above cl of crankshaft
TI 8112	21-7410	442UF	System lubricating oil inlet	
TE 8112	21-7410	442VB	System lubricating oil inlet	
TI 8113	21-7410	211C	Piston cooling oil outlet	1/CYL
TE 8113+FS 8114	21-7410	211C	Piston cooling oil outlet temp.+no flow	1/CYL
TI 8117	21-7410	442JA	Lubricating oil outlet from turbo charger	1/TC
TE 8117	21-7410	442VD	Lubricating oil outlet from turbo charger	1/TC

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151122	侯冻	宁军		-	CE0488K	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:	Mass (kg):	
Scale:	Size:	Product Type:			Page No.:	Projection:	
1:1	A3	6G60ME-C9.5			02 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

ELECTRONIC CYLINDER LUBRICATION OIL SYSTEM

Symbol	Structure No	Pos. No	Description	Remarks
TE 8202	21-5066	442VP	Cylinder lub. oil inlet	

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151222	侯冻	宁军		-	CE0488K NX		00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:	Mass (kg):	
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME-C9.5			03 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

COOLING WATER SYSTEM

Symbol	Structure No	Pos.No	Description	Remarks
PI 8401	21-7410	442CA	Jacket cooling water inlet, LOP	
PT 8401	21-7410	442JH	Jacket cooling water inlet	
PS 8402	21-7410	442JH	Jacket cooling water inlet	
TI 8407	21-7410	442UI	Jacket cooling water inlet	
TE 8407	21-7410	442VE	Jacket cooling water inlet	
TI/TT 8408	21-7410	442VR	Jacket cooling water outlet	1/CYL
PT 8413		442JH	Jacket cooling water outlet common pipe	
PT 8421	21-7410	442JF	Cooling water inlet air cooler	
TI 8422	21-7410	442UQ	Cooling water inlet air cooler	1/AC
TE 8422	21-7410	442VF	Cooling water inlet air cooler	
TI 8423	21-7410	442UK	Cooling water outlet air cooler	1/AC
TE 8423	21-7410	442VG	Cooling water outlet air cooler	1/AC
PDI/PDT 8404	21-7410	442JC	Jacket cooling water across cylinder liners	For LDCL
PDI/PDT 8405	21-7410	442JC	Jacket cooling water across cylinder covers&exh.valves	For LDCL
TI 8410	21-7410	442UN	Cylinder cover cooling water outlet	For LDCL, 1/CYL
TE 8410	21-7410	442VN	Cylinder cover cooling water outlet	For LDCL, 1/CYL
PS 8464	21-7410	442JK	Circulation pump inlet pressure LDCL/LDHT	For LDCL

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151222	侯冻	宁军		-	CE0488K	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:	Mass (kg):	
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME-C9.5			04 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

COOLING WATER SYSTEM

Symbol	Structure No	Pos.No	Description	Remarks
TT8407		853EA	Jacket cooling water inlet	For LDCL/LDHT
TT8413		853EB	Jacket cooling water outlet	For LDCL/LDHT
TT8414		853EC	Cooling water outlet LDCL/LDHT	
TT8420		853ED	Cooling water outlet 3-WAY valve LDCL/LDTL	
PT8464		853EE	Cooling water inlet circulation pump LDCL/LDHT	
PT8465		853EF	Cooling water outlet circulation pump LDCL/LDHT	
TI8466		853EG	Cooling water outlet circulation pump LDCL/LDHT	
PI8467		853EH	High temperature outlet pressure LDCL/LDHT	
PI8468		853EI	Outlet pressure after mixing valve LDCL/LDHT	
PI8464		853EJ	Cooling water inlet circulation pump LDCL/LDHT	Maker supply
PI8465		853EJ	Cooling water outlet circulation pump LDCL/LDHT	Maker supply

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	增加PI8464,PI8465	06701A	01
20151222	侯冻	宁军		-	CE0488K	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:		Mass (kg):
Scale:	Size:	Product Type:			Page No.:	Projection:	
1:1	A3	6G60ME-C9.5			05 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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COMPRESSED AIR SUPPLY SYSTEM

Symbol	Structure No	Pos.No	Description	Remarks
PI 8501	21-7410	442CA	Starting air to main starting valve, LOP	
PT 8501-1		442JM	Starting air inlet	
PT 8501-2		442JM	Starting air inlet	
PI 8503	21-7410	442CA	Control air inlet, LOP	
PT 8503-1	21-7426	441H	Control air inlet	
PT 8505-1	21-7426	441H	Exh.valve air spring air inlet	

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151222	侯冻	宁军		-	CE0488K	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:		Mass (kg):
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME - C9.5			06 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

SCAVENGE AIR SYSTEM

Symbol	Structure No	Pos.No	Description	Remarks
PI 8601	21-7410	442CE	Scavenge air receiver (Combined with instrument panel for PI 8706)	
PI 8601	21-7410	442CA	Scavenge air receiver, LOP	
PT 8601-1		442JM	Scavenge air receiver	
PT 8601 A	21-7410	442JI	Scavenge air receiver	For ECS
PT 8601 B	21-7410	442JI	Scavenge air receiver	For ECS
TI 8605	21-7410	442US	Scavenge air before air cooler	1/AC
PDI 8606	21-7410	5390	Pressure drop across air cooler	1/AC
TI 8608	21-7410	442US	Scavenge air after air cooler	1/AC
TI 8609	21-7410	442UM	Scavenge air receiver	
TE 8609	21-7410	442VI	Scavenge air receiver	
TE 8610	21-7410	442VJ	Scavenge air box fire	1/CYL

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20161222	侯冻	宁军		-	CE0488K	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:		Mass (kg):
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME-C9.5			06 (07)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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CAD Drawing - do not correct by hand - U6 Drawing

EXHAUST GAS SYSTEM

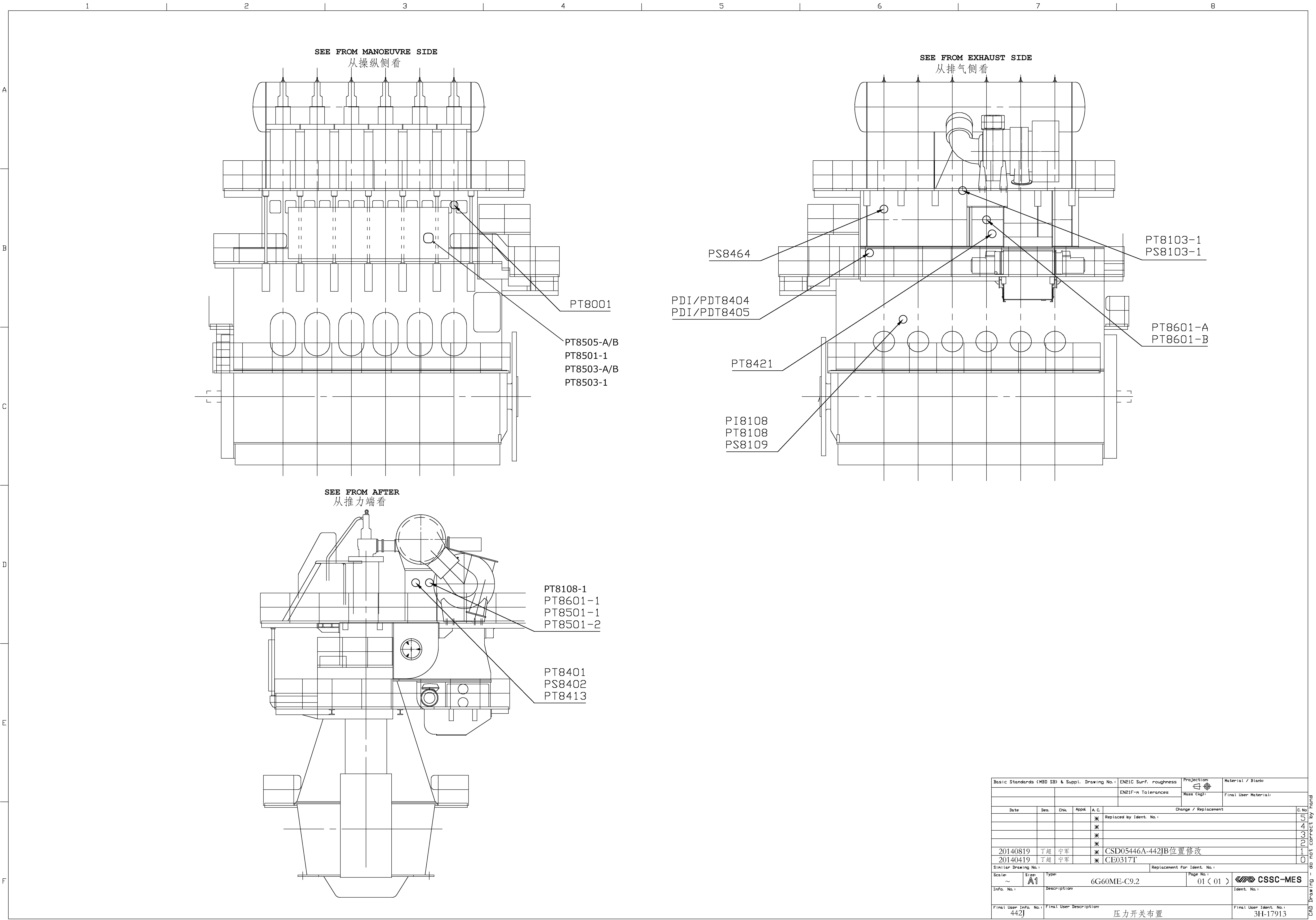
Symbol	Structure No	Pos.No	Description	Remarks
TI 8701	21-7410	442U0	Exhaustgas before T/C	1/TC
TE 8701	21-7410	442VK	Exhaustgas before T/C	1/TC
TI 8702	21-7410	442UP	Exhaustgas after exhaust valve	1/CYL
TE 8702	21-7410	442VL	Exhaustgas after exhaust valve	1/CYL
PI 8706	21-7410	442CE	Exhaustgas outlet T/C (Combined with instrument panel for PI 8601)	
TI 8707	21-7410	442UT	Exhaustgas outlet T/C	1/TC
TE 8707	21-7410	442VM	Exhaustgas outlet T/C	1/TC

Date	Des.	Chk.	APRD.	A.C.	Revision change	CSD No.	Rev.
				-			03
				-			02
20160921	侯冻	宁军		-	此页无修改	06701A	01
20151222	侯冻	宁军		-	CE0426A	NX	00
Basic Standards (MBD SB):					similar. Drawing No.:		
EN21F-m Tolerances					EN21C Surf. roughness		
Material / Blank:					Final User Material:		Mass (kg):
Scale:	Size:	Product Type:			Page No.:	Projection:	
1 : 1	A3	6G60ME-C9.5			08 (08)		
Info. No.:		Item Name:				Item Id.:	
		LIST OF INSTRUMENTS					
Final User Info. No.:		Final User Description:				Final User Ident. No.:	
442C		仪表清单				3H-21984	

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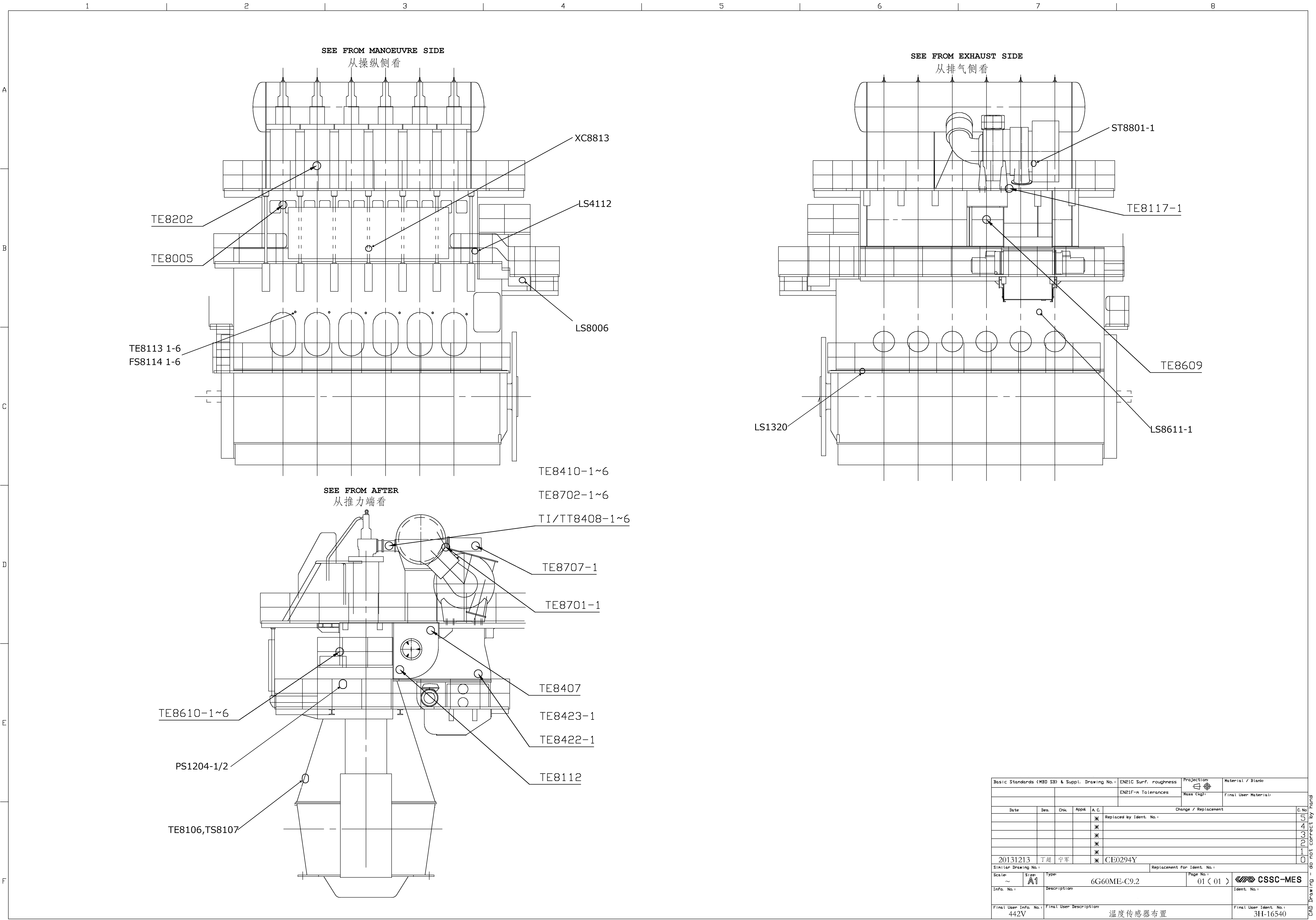


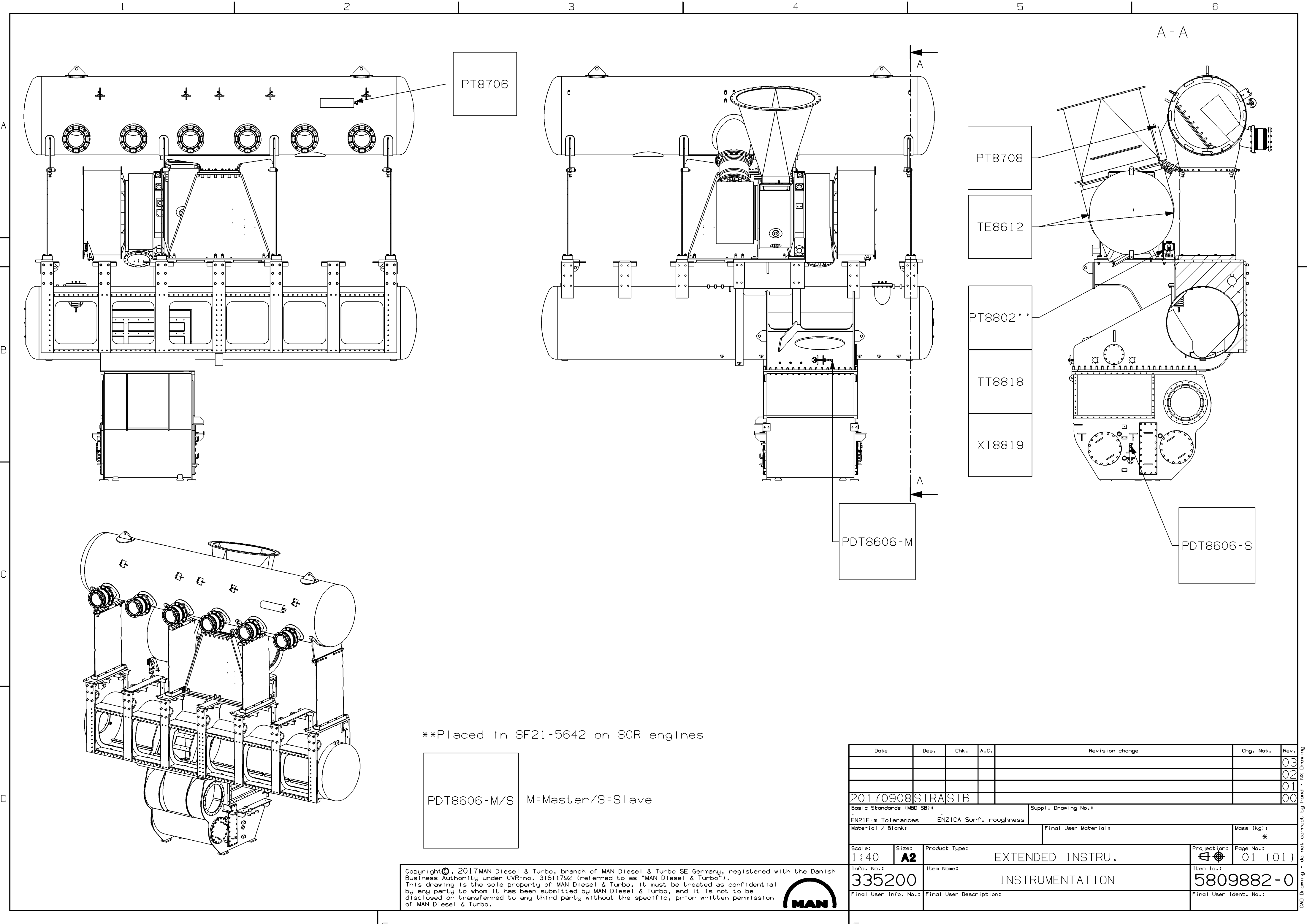
CAD Drawing - do not correct by hand - U6 Drawing



Basic Standards (MBD SB) & Suppl. Drawing No.1					EN21C Surf. roughness				Material / Blank		
					EN21F-n Tolerances		Mass (kg)		Final User Material		
Change / Replacement											C. No
Date	Des.	Chk.	Appd.	A. C.	Replaced by Ident. No. 1						5
				*							4
				*							3
				*							2
				*							1
20140819	丁超	宁军		*	CSD05446A-442JB位置修改						0
20140419	丁超	宁军		*	CE0317T						1
Similar Drawing No.1							Replacement For Ident. No.1				
Scale	Size	Type			Page No.1			 CSSC-MES			
~	A1	6G60ME-C9.2			01 (01)			Ident. No.1			
Info. No.1		Description								Ident. No.1	
Final User Info. No.1		Final User Description								Final User Ident. No.1	
442J		压力开关布置								3H-17913	

CAD Drawing - do not correct by hand





**Placed in SF21-5642 on SCR engines

PDT8606-M/S M=Master/S=Slave

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Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
						03
						02
						01
						00
20170908STRASTB				Suppl. Drawing No.:		
Basic Standards (MBO SBI):						
EN21F-m Tolerances EN21CA Surf. roughness						
Material / Blank:				Final User Material:		Mass (kg):
						*
Scale:	Size:	Product Type:			Projection:	Page No.:
1:40	A2	EXTENDED INSTRU.			1st	01 (01)
Info. No.:		Item Name:			Item Id.:	
335200		INSTRUMENTATION			5809882-0	
Final User Info. No.:		Final User Description:			Final User Ident. No.:	

CAD Drawing - do not correct by hand - NX Drawing

ITEM	DESCRIPTION	QUANTITY	类型	工作范围 (service)	报警值 (alarm)		降速 (slow down)		停车 (shut down)		量程/设定值范围	Remark
					low	high	low	high	low	high		
PT8505-1	Air inlet to air cylinder for exhaust valve	1	4-20mA	0.65~0.75	0.55		0.5				0~1	Unit: Mpa
PT8501-1	Starting air inlet	1	4-20mA	1.5~3.0	1.5						0~4	FOR ALARM, Unit: Mpa
PT8501-2	Starting air inlet	1	4-20mA	1.5~3.0							0~4	FOR REMOTE INDICATE, Unit: Mpa
PT8503-1	Control air inlet	1	4-20mA	0.65~0.75	0.55						0~1	FOR ALARM, Unit: Mpa
PT8001	fuel oil inlet	1	4-20mA	0.7~1.0	0.65						0~1.6	④, Unit: Mpa
PT8103-1	Lubricating oil inlet to turbo charger	1	4-20mA	0.14~0.20	0.12		0.1				0~0.4	⑤, Unit: Mpa
PS8103-1	Lubricating oil inlet to turbo charger	1	switch	0.14~0.20					0.04		0~0.4	⑤, Unit: Mpa, For 0311113/14/15/16, MET
PS8103-1	Lubricating oil inlet to turbo charger	1	switch	0.14~0.20					0.08		0~0.4	⑤, Unit: Mpa, For 0311117/18/19/20, ABB
PT8108	System lubricating oil inlet	1	4-20mA	0.19~0.25	0.17		0.15				0~0.4	①, Unit: Mpa
PS8109	Lub oil inlet to main bearing and thust bearing	1	switch	0.19~0.25					0.13		0~0.4	①, Unit: Mpa
PT8421-1	Cooling water inlet air cooler	1	4-20mA	0.2~0.45 c)	normal valve-0.3bar						0~0.4	Unit: Mpa
PT8601-1	Scavenge air receiver	1	4-20mA	INDICATION ONLY							0~0.6	Unit: Mpa
PT8108-1	Piston cooling oil inlet	1	4-20mA	0.14~0.20	0.12						0~0.4	①, Unit: Mpa
PT8503~A/B	Control air inlet (For ECS)	2	4-20mA	0.65~0.75							0~1	FOR ECS SYSTEM, Unit: Mpa
PT8501~A/B	Starting air inlet (For ECS)	2	4-20mA	1.5~3							0~4	FOR ECS SYSTEM, Unit: Mpa
TS8107	thrust bearing segment	1	Switch	55~70						90	20~150	Unit: ℃
TE8106	thrust bearing segment	1	Pt100	55~70		75		80			0~200	Unit: ℃
TE8005	fuel oil inlet (参照操作手册705章节)	1	Pt100	T	(T-5)	T+5					0~200	③, Unit: ℃
TE8112	System lubricating oil inlet	1	Pt100	40~47		55		60			0~200	Unit: ℃
TE8113	Piston cooling oil outlet/cyl	6	Pt100	50~65		70		75			0~200	Unit: ℃
TE8117-1	Lubricating oil outlet T/C	1	Pt100	70~90		110		120			0~200	Unit: ℃

ITEM	DESCRIPTION	QUATITY	类型	工作范围 (service)	报警值 (alarm)		降速 (slow down)		停车 (shut down)		量程/设定值范围	Remark
					low	high	low	high	low	high		
TE8422-1	Cooling water inlet air cooler	1	Pt100	10~36		40					0~200	Unit: °C
TE8423-1	Cooling water outlet air cooler	1	Pt100	10~63		80					0~200	Unit: °C
TE8609	Scavenge air receiver	1	Pt100	15*)		55 e)		65 e)			0~200	Unit: °C
TE8610	Scavenge air box fire~alarm/cyl	6	Pt100	-		80		120			0~200	Unit: °C
TE8701-1	Exhaustgas before T/C	1	Pt100	380~500		580		590		610	0~700	For 0311113/14/15/16 Unit: °C
TE8701-1	Exhaustgas before T/C	1	Pt100	380~500		520		530		550	0~700	For 0311117/18/19/20 Unit: °C
TE8702	Exhaustgas after exhaust valve/cyl	6	Pt100	320~440		470 (deviation:50° C)		480 (deviation:60 ° C)			0~700	Unit: °C
TE8707-1	Exhaust gas outlet T/C	1	Pt100	220~340		380					0~700	Unit: °C
TE8202	Cylinder lub. oil inlet	1	Pt100	40~60		70					0~200	Unit: °C
FS8114	Piston cooling oil outler no flow/ cylider	6	switch		no flow		no flow					
LS4112	Leakage from HCU	1	switch			high						
LS8006	leakage from high pressure pipe	1	switch			high						
LS1235	Leakage from HPS	2	switch			high						FOR ECS SYSTEM
LS8611-1	Drain from WMC	1	switch			high						
ZT8420	Engine overspeed	1								97 rpm		
XC8813	Oil mist in crankcase	1set	switch			high density/F ailure		high density				
PS1204-1	1# start up pump lub. Oil inlet	1	switch	0.15-0.22Mpa	0.07Mpa						-0.02-1	Unit: Mpa 0.07Mpa only for control

ITEM	DESCRIPTION	QUANTITY	类型	工作范围 (service)	报警值 (alarm)		降速 (slow down)		停车 (shut down)		量程/设定值范围	Remark
					low	high	low	high	low	high		
PS1204-2	2# start up pump lub. Oil inlet	1	switch	0.15-0.22Mpa	0.07Mpa						-0.02-1	Unit: Mpa 0.07Mpa only for control
ST8801-1	T/C speed	1		0-14550		13968		14259		14550		For 0311113/14/15/16/21/22/23/24 Unit: rpm
ST8801-1	T/C speed	1		0-18060		17337		17698		18060		For 0311117/18/19/20 Unit: rpm
PT8401	Jacket cooling water inlet(at inlet manifold)	1	4-20mA	0.37~0.55a)	0.33		0.29				0~1.0	LDCL-Unit: Mpa
PS8402	Jacket c.w. inlet	1	switch	0.37~0.55a)					0.01 f)		0~0.4	LDCL-Unit: Mpa
PT8413	Jacket cooling water outlet common pipe	1	4-20mA	0.26-0.42							0~1.0	Unit: Mpa
PDT8404	Jacket cooling water across cylinder liners	1	4-20mA	0.025-0.08			0.01				0-0.18	Alarm to be stated at sea trial between normal and Slowdown values. LDCL-Unit: Mpa
PDT8405	Jacket cooling water across cylinder covers & exh. Valves	1	4-20mA	0.04-0.12			0.01				0-0.18	Alarm to be stated at sea trial between normal and Slowdown values. LDCL-Unit: Mpa
PS8464	Circulation pump inlet pressure,	1	switch		0.1Mpa							For protection against dry running(local control). Connected to pump starter.
TE8407	Jacket cooling water inlet	1	Pt100	70~85	62						0~200	LDCL-Unit: °C
TT8408	Cyl. Liner jacket cooling water outlet	6	4-20mA	80~85	deviation:10	normal value+10		normal value+15			0~300	LDCL is not working for high load. To be stated at sea trail LDCL-Unit: °C alarm delay 300sec. Slow down delay 600sec.
				75~124	deviation:10	normal value+5		normal value+10			0~300	LDCL is working for low load. To be stated at sea trail LDCL-Unit: °C alarm delay 300sec. Slow down delay 600sec.
TE8410	Cyl. cover c.w. outlet	6	Pt100	80~87		90		95			0~200	LDCL-Unit: °C AH/SLD delay 150sec.
PDT8606	A/C air pressure drop	1/A. C.	4-20mA								0~0.02	Mpa, For EMS, For 0311117/18/19/20

ITEM	DESCRIPTION	QUATITY	类型	工作范围 (service)	报警值 (alarm)		降速 (slow down)		停车 (shut down)		量程/设定值范围	Remark
					low	high	low	high	low	high		
TE8612	T/C air intake temperature	2/TC	Pt100	-10~45							0~200	℃, For EMS, For 0311117/18/19/20
PT8706	Exh. gas receiver pressure	1	4-20mA	0.1~0.34							0~0.6	Mpa, For EMS, For 0311117/18/19/20
PT8708	Turbine back pressure	1/TC	4-20mA	0.1~0.003		0.0045					0~0.01	Mpa, For EMS, For 0311117/18/19/20
TT 8818	Engine room temperature	1	4-20mA								-40~60	℃, For EMS, For 0311117/18/19/20
PT 8802	Engine room pressure		4-20mA	0.095~0.105							0.094~0.11	Mpa(abs), For EMS, For 0311117/18/19/20
XT 8819	Engine room Relative humidity		4-20mA								0~100%	%RH, For EMS, For 0311117/18/19/20

- ①Measured 1800mm above the crankshaft center for main L.O. and piston cooling oil.
- ②Measured 1000mm above the middle grating.
- ③To be adjusted depending on the fuel oil viscosity.
- ④Fuel oil viscosity max.700cst/50℃ measured at HCU level
- ⑤Measured at the turbocharger rotor center for turbocharger L.O.
- *) Above water inlet temp.air cooler
- a)The expansion tank is located more than 15m above the engine the top of the exhaust gas valves.
If the static pressure is above 2.6bar. Alarm=static pressure+0.7bar. SLD=static pressure+0.3bar.
- b)With stopped cooling water pumps,the set point is the static pressure plus the stated valuve
- c)To be stated at sea trail
- d)Lower than normal service value
- e)To be cut during stop,To remain cut out until 3~5 minutes after start
- f)The static pressure must be added to the stated value. The set point must be set and verified at seatrial with stopped pumps.Only required by GL
- g)To be stated at sea trial. Lower than normal service value.
- g)The delay time of sensor: 6-8 sec.

Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
Hydraulic power supply															
PS	1204	C	Lub. oil pressure at pump inlet after filter	bar	Binary N.C.		1		0,7						For protection against dry running (local control). Connected to pump starter. Alarm value is setting value
PT	1228	AL	Lub. oil pressure after LPS booster pump	bar	4-20mA		4,0	7,0							For Dual Fuel engines if LPS booster pump is applied. For Alarm level use alarm level for 8108+1bar.
PS	1229	C	Lub. oil pressure before LPS booster pump	bar	Binary N.C.				0,5						For Dual Fuel engines if LPS booster pump is applied. For protection against dry running (local control). Connected to pump starter. Alarm value is setting value
PDS	1231	AH	Lub. Oil difference pressure, across filter (Auto filter)	bar	Binary N.C.		0	0,6			0,8				
XC	1260	C	LPS booster pump start	-	Binary N.C.										For Dual Fuel engines if LPS booster pump is applied. To be started together with Main Lube Oil Pumps. Start=Closed contact
XC	1261	C	LPS booster pump Remote/Local/Fail	-	Binary N.C.		1				0				For Dual Fuel engines if LPS booster pump is applied.
XC	1262	C	LPS booster pump running	-	Binary N.C.										For Dual Fuel engines if LPS booster pump is applied. Running=Closed contact
TE	1270	AH	HPS bearing temperature	°C	PT100		55	60			70				Only for centre mounted HPS
Hydraulic control oil system (separate oil to HPS)															
PI	1301	I	Fine filter unit pressure indicator	bar											In plant/vessel piping
PI	1303	I	Lub oil pressure engine inlet	bar	4-20mA										In plant/vessel piping. Same normal range as PT8108
TE	1310	AH-Y	Lub. Oil temp. At engine inlet	°C	PT100		40	55			60	65			In plant/vessel piping
LS	1320	AL	Level alarm in tank	-	Binary N.C.		1		0						In plant/vessel tank
XS	1350	AH	WIO Water in hydraulic oil system	WA	Binary N.C.		0	0,45			0,5				WA: Water Activity (relative to saturation point) If analogue sensor 4-20mA=0-1 WA
XS	1351	AH	WIO Water in hydraulic oil system too high	WA	Binary N.C.		0	0,45			0,9				WA: Water Activity (relative to saturation point) If analogue sensor 4-20mA=0-1 WA
XS	1352	A	WIO sensor not ready	-	Binary N.C.		1				0				Optional (Maker dependent)
Top bracing															

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20170508	DFA	JYA	Z3	Updates according to chg.note.			124702	03	
20141106	DFA	JYA						00	
Basic Standards:		Product Type:						Size:	Page No.:
		G60ME-C9.5-TII/TIII						A3	1 (8)
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341910		GUIDANCE VAL.-AUTOMATION						5657261-7	
Final User Info No.:		Final User Description:						Final User Ident. No.:	

Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
PT	1501	AL	Top bracing accumulator pressure	bar	4-20mA		6	8	4						
EGR – Exhaust Gas Recirculation															
XC	1608	C	EGR common alarm	-	Binary N.C.		1				0				Only EGR engines
XC	1639	C	EGR cooler no flow (TC cut-out)	-			0								Only EGRTC engines, optional cooler cut-out in TII mode
XC	1648	C	EGR cooler reduced flow	-			0								Only EGRTC engines, optional flow reduction
ECS to/from safety system															
XC	2001	Z	Shut down to Engine Control Units/Emergency stop	-	Binary N.O.		0							1	Channels for: ECU-A & ECU-B
XC	2002	Z	Shut down to Cylinder Control Units/Emergency stop	-	Binary N.O.		0							1	Channels for all cylinders
XC	2005	C	Reset shut down	-	Binary N.O.		0				1				Channels for: ECU-A & ECU-B
XC	2010	Y	Slow down command from safety/slowdown system	-	Binary N.O.		0					1			Channel for EICU-A required, EICU-B optional
XC	2011	Z	Shut down to SF Plant Safety Unit	-	Binary N.C.		1							0	Only GI, GIE, LGIM and LGIP engines
XC	2020	Z	Shut down (Non-cancellable)	-	Binary N.O.		0							1	Channels for: EICU-A & EICU-B
XC	2021	Z	Shut down (cancellable)	-	Binary N.O.		0							1	Channels for: EICU-A & EICU-B
ECS to/from alarm system															
XC	2201	A	Power failure	-	Binary N.C.		1		0						Channels for: EICU-A, EICU-B, SCRCU (SCR) & EGRI1 (EGR)
XC	2202	A	ME common alarm	-	Binary N.C.		1		0						Channels for: EICU-A, EICU-B & SCRCU (SCR)
XC	2205	A	Slow down prewarning	-	Binary N.O.		0		1						Channel for EICU-A required, EICU-B optional
XC	2207	C	Slow down Request	-	Binary N.O.		0		1						Channel for EICU-A required, EICU-B optional
XC	2210	A	Engine stopped	-	Binary N.O.		0		1						Channel for EICU-A required, EICU-B optional
XC	2212	A	External Second Fuel shut down request	-	Binary N.O.										Only GI, GIE, LGIM & LGIP engines SF Shut Down=Closed contact
XC	2213	A	Double Pipe HC Alarm	-	Binary N.C.		1				0				Only GI, GIE, LGIM & LGIP engines
XC	2221	A	Second Fuel control Power Failure	-	Binary N.C.		1		0						Only GI, GIE, LGIM & LGIP engines. Channels for: SPCU & SPSU.
XC	2222	A	Second Fuel Common Alarm	-	Binary N.C.		1		0						Only GI, GIE, LGIM & LGIP engines. Channels for: SPCU & SPSU.
ECS outputs															
XC	2405	C	Engine Load	%	4-20mA		0	120							For cooling water control on LDCL engines
Power Supply Units to Alarm System															
XC	2909	AL	UPS mains supply fail	-	Binary N.C.		1		0						Channels for: UPS-A & UPS-B

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Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
XC	2910	AL	UPS battery discharging	-	Binary N.C.		1		0						Channels for: UPS-A & UPS-B
XC	2911	AL	UPS battery protective device tripped	-	Binary N.C.		1		0						Channels for: UPS-A & UPS-B
Tacho/crankshaft pos. system															
ZT	4020	Z	Tacho for safety	RPM										1,09	Factor to be multiplied with RPM at MCR
Engine cylinder components															
LS	4112	C-AH	Leakage from cylinder units/pipe	-	Binary N.C.		1				0				
PS	4112	C-AH	Leakage from cylinder units/pipe	bar	Binary N.O.		0				0,6				Connected to ME-ECS, setting value only
DF-ECS to other GI related systems															
XC	6360	C	ELWI enable	-			1				0				Only GI & GIE engines
XC	6361	I	Dual fuel mode for Bridge Indication	-			0				1				Only GI, GIE, LGIM & LGIP engines. Optional, alternative to information in serial RCS protocol
Dual Fuel Engine related Components															
XC	6428	C	SF ELFI enable	-			1				0				Only LGIM & LGIP engines
Fuel oil system															
PT	8001	I-AL	Fuel oil, inlet engine (after filter)	bar	4-20mA		7	10	6,5						
PDI	8003	I	Pressure drop of fuel across fuel oil filter	bar			0,2	0,5							In plant/vessel piping
VT	8004	I-AL-AH	Fuel oil, inlet engine (after filter)	cSt			10	15	7		20				In plant/vessel piping
TE	8005	I	Fuel oil, inlet engine (after filter)	°C	PT100										
LS	8006	AH	Leakage from high pressure pipes	-	Binary N.C.		1				0				
ZV	8020	C	Fuel oil cut off at engine inlet (Shut Down)	-	Binary N.O.		0				1				only for engines classified by GL.
Lubrication oil system															
PT	8103	I-AL	Lub. oil inlet to turbocharger / turbocharger	bar	4-20mA		1,4	2,0	1,2						TC type dependent
TIT	8106	I-AH-Y	Thrust bearing segment	°C	PT100		40	70			75	80			
TE	8107	Z	Thrust bearing segment	°C			40	70						90	
PT	8108	I-AL-Y	Lub. oil inlet to main bearings and thrust/guide bearing	bar	4-20mA		1,9	2,5	1,7			1,5			Measured on pressure gauge placed 1800 mm above crankshaft centreline
PT/PS	8109	Z	Lub. oil inlet to main bearings and thrust/guide bearing	bar			1,9	2,5						1,3	Measured on pressure gauge placed 1800 mm above crankshaft centreline
TE	8112	I-AL-AH	Lub. oil inlet, system oil	°C	PT100		40	47	35		55				
TE	8113	I-AH-Y	Piston cooling oil outlet pr. each cylinder	°C	PT100		50	65			70	75			
FS	8114	AL-Y	Piston cooling oil outlet pr. each cylinder	-	Binary N.O.		0		1			1			No-flow alarm, 6 sec. delay between Alarm and Slow Down/Load reduction
TE	8117	I-AH-Y	Lub. oil outlet from turbocharger pr. each turbocharger, MAN TC	°C	PT100		70	90			95	120			

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GUIDANCE VAL.-AUTOMATION

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Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
TE	8117	I-AH-Y	Lub. oil outlet from turbocharger pr. each turbocharger, ABB TC	°C	PT100		70	90			110	120			
TE	8117	I-AH-Y	Lub. oil outlet from turbocharger pr. each turbocharger, Mitsubishi TC	°C	PT100		70	80			85				Refer to makers documentation for Slow Down values
TE	8118	I-AH	Lub. oil outlet from engine (inlet to oil cooler)	°C	PT100		50	60			65				
TE	8123	I-AH-Y	Main bearing oil outlet temp	°C			50	60		5	65	70	7		Channels for all main bearings. Alarm to be stated at sea/site trial acc. To alarm system requirements
TE	8124	I-AH-Y	Crankpin bearing oil outlet temp	°C	PT100		50	60		5	65	70	7		Channels for all crank pins. Alarm cut-out until 3 minutes after start. Alarm to be stated at sea/site trial acc. To alarm system requirements
TE	8125	I-AH-Y	Crosshead bearing oil outlet temp	°C	PT100		50	60		5	65	70	7		Channels for all crossheads. Alarm cut-out until 3 minutes after start. Alarm to be stated at sea/site trial acc. To alarm system requirements
XS	8126	AH	Bearing Wear Alarm	-	Binary N.C.		1				0				
XS	8127	A	Bearing Wear System Failure	-	Binary N.C.		1				0				
XS	8129	Y	Bearing Wear Slowdown	-	Binary N.O.		0					1			
XS	8150	AH	Water in lubrication oil (WIO sensor)	WA	Binary N.C.		0	0,45			0,5				WA: Water Activity (relative to saturation point) If analogue sensor 4-20mA=0-1 WA Cut-out if lubrication oil temp. is below normal operating temp.
XS	8151	AH	Water in lubrication oil - level too high (WIO sensor)	WA	Binary N.C.		0	0,45			0,9				WA: Water Activity (relative to saturation point) If analogue sensor 4-20mA=0-1 WA Cut-out if lubrication oil temp. is below normal operating temp.
XS	8152	A	Water in lubrication oil / WIO sensor not ready	-	Binary N.C.		1				0				Optional (Maker dependent)
Cylinder lub. oil system															
TE	8202	I-AH	Cylinder lub. oil temperature	°C	PT100		40	60			70				
LS	8212	AL	Level Switch, Booster unit tank	-	Binary N.C.		1		0						
TS	8213	C	Cylinder lubricating heating	°C	Binary N.C.		1				40				Set point for switch adjustment
Cooling water system															

Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
PT	8401	I-AL-Y	Jacket cooling water inlet (at inlet manifold)	bar	4-20mA		3,7	5,5	3,3			2,9			Measured at standard "K" flange postion. The expansion tank must be located 15 m above the top of the exhaust gas valves. If the static pressure is above 2.6 bar: Alarm=static pressure + 0.7 bar SLD=static pressure + 0.3 bar For engines with LDCL
PDT	8404	AL-Y	Jacket cooling water across cylinder liners	bar	4-20mA		0,25	0,8				0,1			Alarm to be stated at sea trial between normal and Slowdown values. Alarm & Slowdown delay 30 sec. Only for engines with LDCL
PDT	8405	AL-Y	Jacket cooling water across cylinder covers & exh. Valves	bar	4-20mA		0,4	1,2				0,1			Alarm to be stated at sea trial between normal and Slowdown values Only for engines with LDCL
XC	8406	C	Cooling water inlet setpoint	°C	4-20mA		65	95							From LDCL/LDHT cooling water control system
TE	8407	I-AL	Cooling water inlet, engine	°C	PT100		70	85	62						Cut-out at Engine Stopped For engines with LDCL, the temperature controller must be adjustable from 65-95° based on 4-20mA input (8406: 4mA=65, 20mA=95)
TIT	8408	I-AH-Y	Jacket cooling water outlet pr. each cylinder	°C	4-20mA		75	124		10	5	10			For LDCL cooling water systems. AH & SLD values are ΔT relative to commissioned values.
TIT	8408	I-AH-Y	Jacket cooling water outlet pr. each cylinder	°C	4-20mA		80	85		10	10	15			For LDCL cooling water systems. AH & SLD values are ΔT relative to commissioned values. Cut-out below commissioned engine load, Alarm delay 300 sec., Slowdown delay 600 sec.
TIT	8410	I-AH-Y	Cylinder cover cooling water outlet pr. cylinder	°C	4-20mA		80	87			90	95			For engines with LDCL AH/SLD delay 150sec.
LS	8412	AL	Jacket cooling water, de-aerated		Binary N.C.		1		0						
PT	8421	AL-AH	Cooling water inlet Scavenge air cooler	bar	4-20mA			4,5			5,5				Central cooling water system Low Alarm to be stated at sea/site trial (normal value-0.3bar)



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Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments
PT	8421	AL-AH	Cooling water inlet Scavenge air cooler	bar	4-20mA			2,5			3,5				Conventional sea water cooling system Low Alarm to be stated at sea trial (normal value-0.3bar)
TE	8422	I-AH	Cooling water inlet Scavenge air cooler	°C	PT100		10	36			40				Central cooling water system. Set point 10°C or seawater temp+4°C (min. 10°C)
TE	8422	I-AH	Cooling water inlet Scavenge air cooler	°C	PT100		10	32			40				Conventional sea water cooling system. Set point 10°C
TE	8423	I-AH	Cooling water outlet/Scavenge air cooler	°C	PT100		10	63			80				Central cooling water system
TE	8423	I-AH	Cooling water outlet/Scavenge air cooler	°C	PT100		10	50			80				Conventional sea water cooling system
PDT	8424	I	Pressure drop of cooling water across Scavenge air cooler	bar	4-20mA		0,25	0,8							
TE	8431	I	Cooling water inlet to lub. oil cooler(s)	°C	PT100		10	32							Conventional seawater cooling system
PT	8440	I-AH-AL	Cooling water inlet air cooler (s) (WHR)	bar	4-20mA		3,5	4,5							
TE	8441	I-AH	Cooling water inlet air cooler (s) (WHR)	°C	PT100										Normal range and alarm level plant specific
TE	8442	I-AH	Cooling water outlet / air cooler (WHR)	°C	PT100						80				Normal range level plant specific
PDT	8443	I-AL	Scavenge air cooler (WHR/Stage 1)	bar	4-20mA										Normal range and alarm level plant specific
TE	8456	I-AH	EGR Cooler Cooling water outlet	°C	PT100		10	63			80				Central cooling water system For engines with EGR
PS	8478	C	Circulation pump inlet pressure, LDCL/LDHT	bar			1		1						For protection against dry running (local control). Connected to pump starter. Alarm value is setting value Replaces PS8464
Scavenge air															
TE	8605	R	Scavenge air before air cooler pr. each air cooler	°C	PT100		170	250							MCR value, engine load and ambient condition dependent
PDT	8606	R	Pressure drop of air across air cooler pr. each air cooler	mbar	4-20mA										Normal service value according to shop trial results
TE	8608	I-AH	Scavenge air after air cooler pr. each air cooler	°C	PT100						80				Normal service value = TE8422 + 12°C
TE	8609	I-AH-Y	Scavenge air receiver	°C	PT100						55	65			Alarm to be cut during Stop. To remain cut out until 3-5 minutes after Start. Normal Service value = TE8422 + 15°C
TE	8610	AH-Y	Scavenge air box - fire alarm pr. each cylinder	°C	PT100						80	120			

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Prefix	GVA	Postfix	Description	Unit	Type	No. Of Cyl.	Normal service low	Normal service high	Low Alarm	Deviation	High Alarm	Slowdown or Loaddown	Deviation SLD	Shutdown	Comments						
LS	8611	AH	Water mist catcher - water level	-	Binary N.C.		1				0										
TE	8612	R	Compressor inlet temperature pr. each turbocharger	°C	PT100		-10	45							2 sensors pr. T/C						
PT	8615	R	Compressor inlet pressure pr. each turbocharger	°C	PT100																
Exhaust gas system																					
TIT	8701	I-AH-Y	Exh. gas before turbocharger pr. each turbocharger	°C	4-20mA		380	500							Measured in turbine inlet. Values at nominal MCR, dependent on layout, engine load and ambient conditions. TC make dependent values for alarm and slowdown. Higher values may apply for WHR tuned engines						
TIT	8702	I-AH-Y	Exh. gas after exh. valves pr. each cylinder (average)	°C	4-20mA		320	440		50	470	480	60		Deviation alarm to be cut-out below 200°C The normal service values apply under the following conditions: Ambient temp. in engine room 25°C, Scavence air temp. in receiver 35°C						
PT	8706	R	Exhaust gas receiver	bar	4-20mA		1	3,4							Values at nominal MCR, dependent on engine layout and load						
TIT	8707	I-AH	Exhaust gas outlet turbocharger pr. each turbocharger	°C	4-20mA		220	340			380				The normal service values apply under the following conditions: Ambient temp. in engine room 25°C, Scavence air temp. in receiver 35 °C Higher values may apply for WHR tuned engines						
PT	8708	I-AH	Exhaust gas outlet turbocharger pr. each turbocharger	mbar	4-20mA		0	30			45				Normal service value at MCR						
Miscellaneous functions																					
ZT	8801	I-AH-Y	Turbocharger speed pr. turbocharger	RPM	4-20mA						0,96	0,98			Factor to be multiplid with max RPM for continous operation. Slowdown applied in case of: Variable turbocharger, Exhaust gas by pass, Turbocharger Cut Out system, Power turbine and Hybrid TC. Reference to Doc. No. 1883352-9						
PT	8802	I	Engine room pressure	bar(abs)	4-20mA		0,95	1,05													
PI	8803	I	Air inlet for dry cleaning of turbocharger	bar			4,5	10													
PI	8804	I	Cleaning water inlet to turbocharger	bar			0,5								Relative to exhaust gas pressure (higher than)						
WT/WI	8812	I-AH-Y	Axial vibration monitor	mm		5	0,00	2,16			2,89	3,61			Alarm delay 20 sec. Slowdown prewarning 100 sec.						
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WT/WI	8812	I-AH-Y	Axial vibration monitor	mm		6	0,00	2,58			3,45	4,31			Alarm delay 20 sec. Slowdown prewarning 100 sec.
WT/WI	8812	I-AH-Y	Axial vibration monitor	mm		7	0,00	3,00			4,01	5,01			Alarm delay 20 sec. Slowdown prewarning 100 sec.
WT/WI	8812	I-AH-Y	Axial vibration monitor	mm		8	0,00	3,43			4,58	5,72			Alarm delay 20 sec. Slowdown prewarning 100 sec.
WT/WI	8812	I-AH-Y	Axial vibration monitor	mm		9	0,00	3,85			5,14	6,42			Alarm delay 20 sec. Slowdown prewarning 100 sec.
XS	8813	AH-Y	Oil mist in crankcase	mg/l	Binary N.O.		0				0,5	0,7			Refer to Operation Manual, Vol. 1, for further adjustments
XS	8814	AL	Oil mist detector, failure	-	Binary N.C.		1		0						
XC	8816	I-AH	Shaftline earthing device	mV			0	50			80				
XS	8817	Z	Turbocharger overspeed pr. turbocharger	RPM	Binary N.C.									1	Factor to be multiplied with max RPM for continous operation. Applied in case of: Variable turbocharger, Exhaust gas by pass, Turbocharger Cut Out system, Power turbine and Hybrid TC IF combined with PMS handshake. Reference to Doc. No. 1883352-9
TT	8818	C	Engine Room Temperature	°C	4-20mA										
XT	8819	C	Ambient Humidity	%RH	4-20mA										
TE	8820	AH	Cylinder liner monitoring, manouvring side each cylinder	°C	NiCrNi		100	195		50	200				Deviation & AH delay 300 sec. Cut out below 100°C. Max. Deviation 50°C. Deviation & High Alarm to be adjusted at sea/site trial Standard for 80-98 bore engines. Reference to Doc. No. 5568165-4
TE	8821	AH	Cylinder liner monitoring, Exhaust side each cylinder	°C	NiCrNi		100	195		50	200				To be evaluated together with TE8820

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文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5	
		台 份 Set No.			
		工程编号 Engine No.			
		船 厂 Shipyard		NTS	
		船 号 Hull No.		0311117/18/19/20	
		船级社 Classification Society		ABS	
CMD-MAN B&W 6G60ME-C MK9.5 STARTER FOR AUX. BLOWER 5. 辅助风机起动器					
Page5:Add the value of EOCR.					6
The glands is changed according to yard requirement.					5
The power of aux. blower's motor is changed to 87Kw because of HPSCR.					4
Page4:add the information of glands.					3
page4:铭牌修改; page5: 电机保护器修改。					2
Page4:增加安装板厚度和本体总重。					1
修 改 说 明 Corrected Description					
王勇 20180620	魏守刚 20180620	刘闯 20180620			
王勇 20180103	魏守刚 20180103	刘闯 20180103			5
王勇 20171106	魏守刚 20171106	刘闯 20171106			4
王勇 20170904	易志银20170904	刘闯20170904			3
王勇 20170706	易志银20170706	杜清20170706			2
王勇 20170703	易志银20170703	杜清20170703			1
易志银 20170308	王勇 20170308	杜清20170308			0
编 制 Compiled	校 对 Checked	审 核 Confirmed	审 定 Approved	会 签 Countersigned	批 准 Authorized
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	13
 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.	D6521300-3.



安庆船用电器有限责任公司

ANQING MARINE ELECTRIC DEVICE CO., LTD

AUX. BLOWER STARTER PANEL

辅助鼓风机起动箱

Type: BSP-AD264

型号: BSP-AD264



ADD: 3.9 Square Kilometer Industrial Park In AnQing

Economic and Technical Development Zone.

地址: 安徽省安庆市经济技术开发区3.9平方工业园三城寺路

Tel 电话: +86-556-5315485

Fax 传真: +86-556-5311583

Postal 邮编: 246005

E-mail: aq485jyb@163.com

Drawing type: AUX.BLOWER Starter Panel

图纸类型: 辅助鼓风机起动箱

D/E NO. (机型): 6G60ME-C9.5#44/#45/#46/#47

Hull NO. (船号): 0311117/18/19/20

Shipyard: New Times Shipbuilding Co., Ltd

船 厂: 江苏新时代造船有限公司

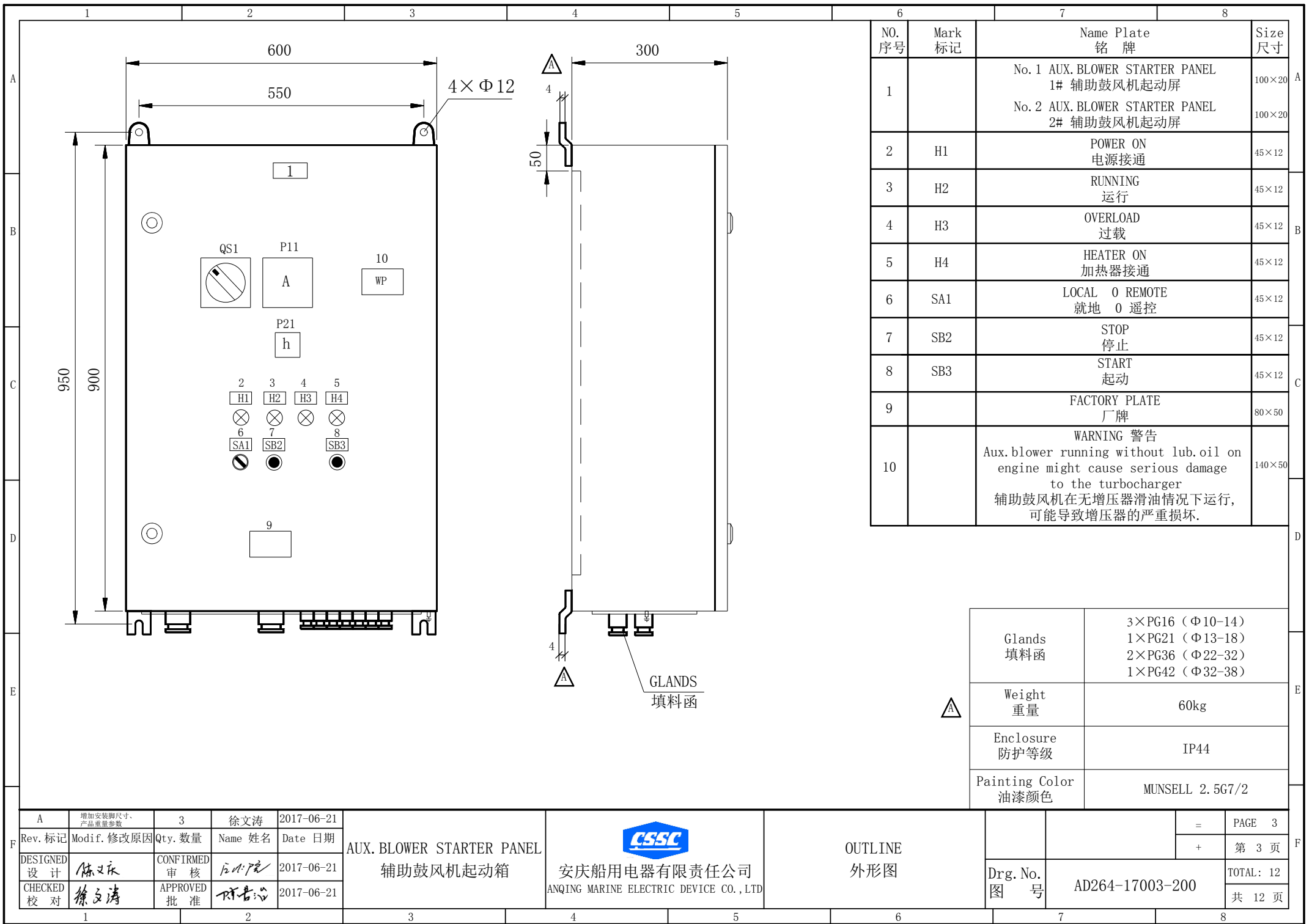
D/E Maker: CSSC-MES Diesel Co., Ltd

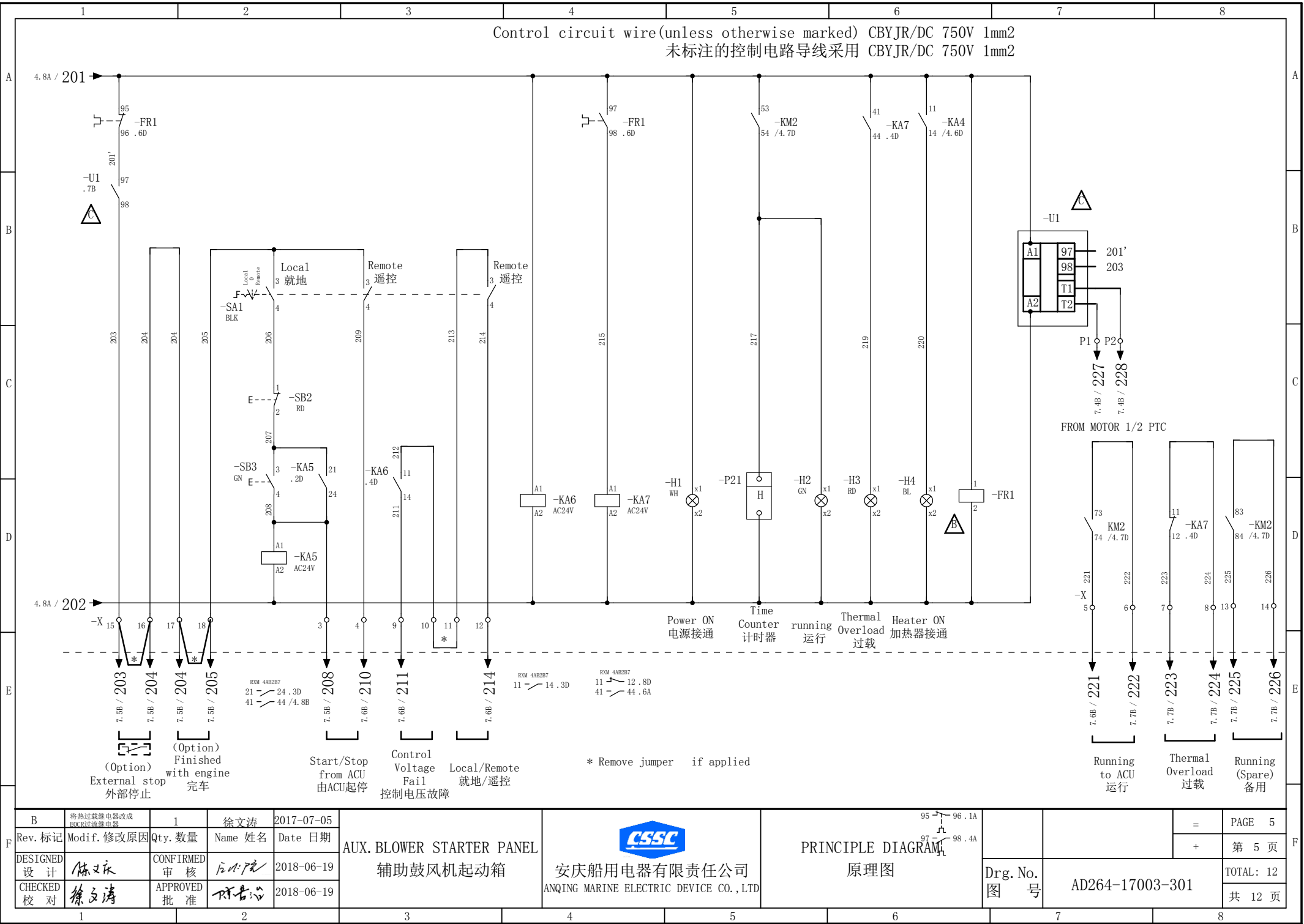
柴油机制造商: 上海中船三井造船柴油机有限公司

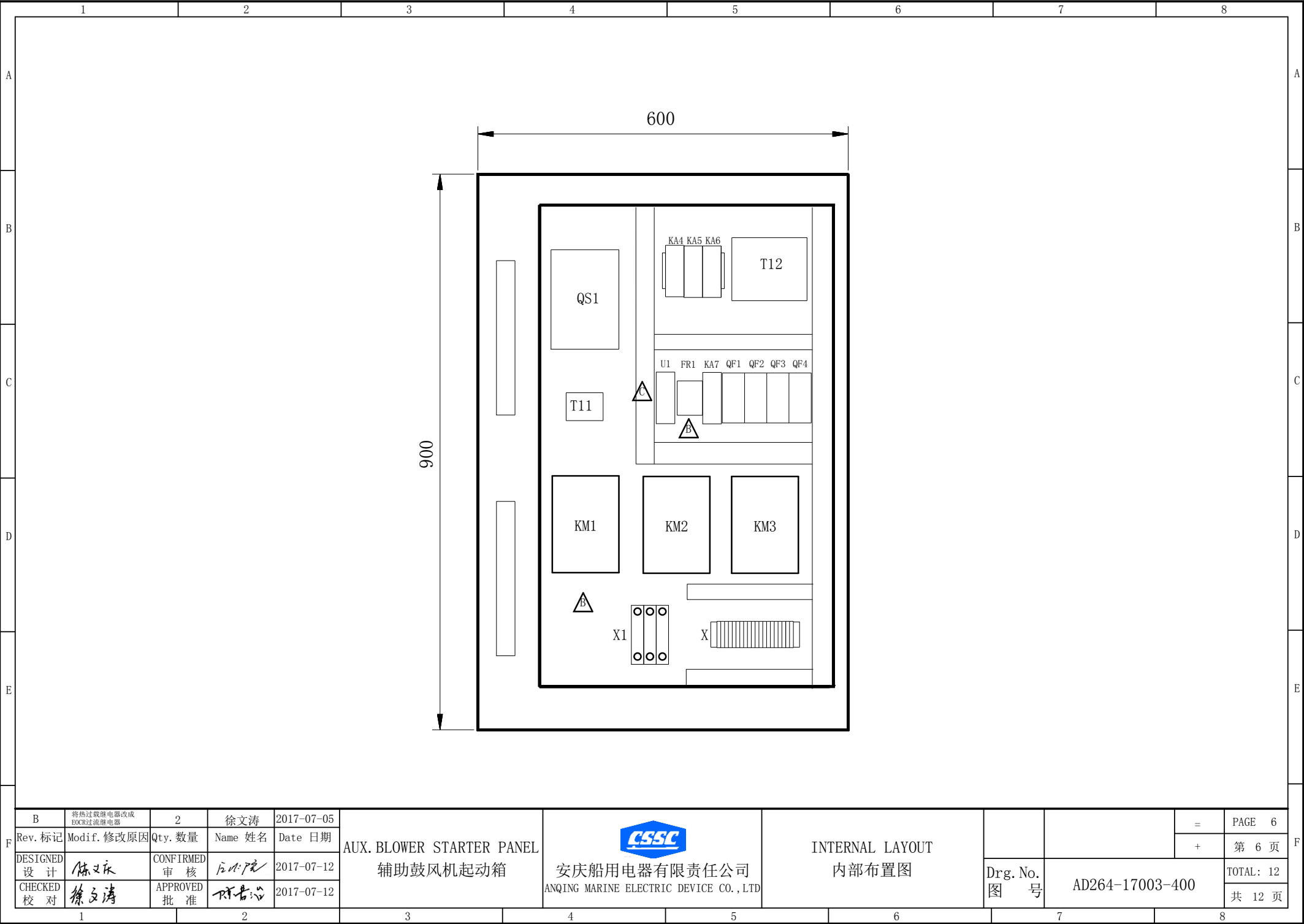
Class 船级社: ABS

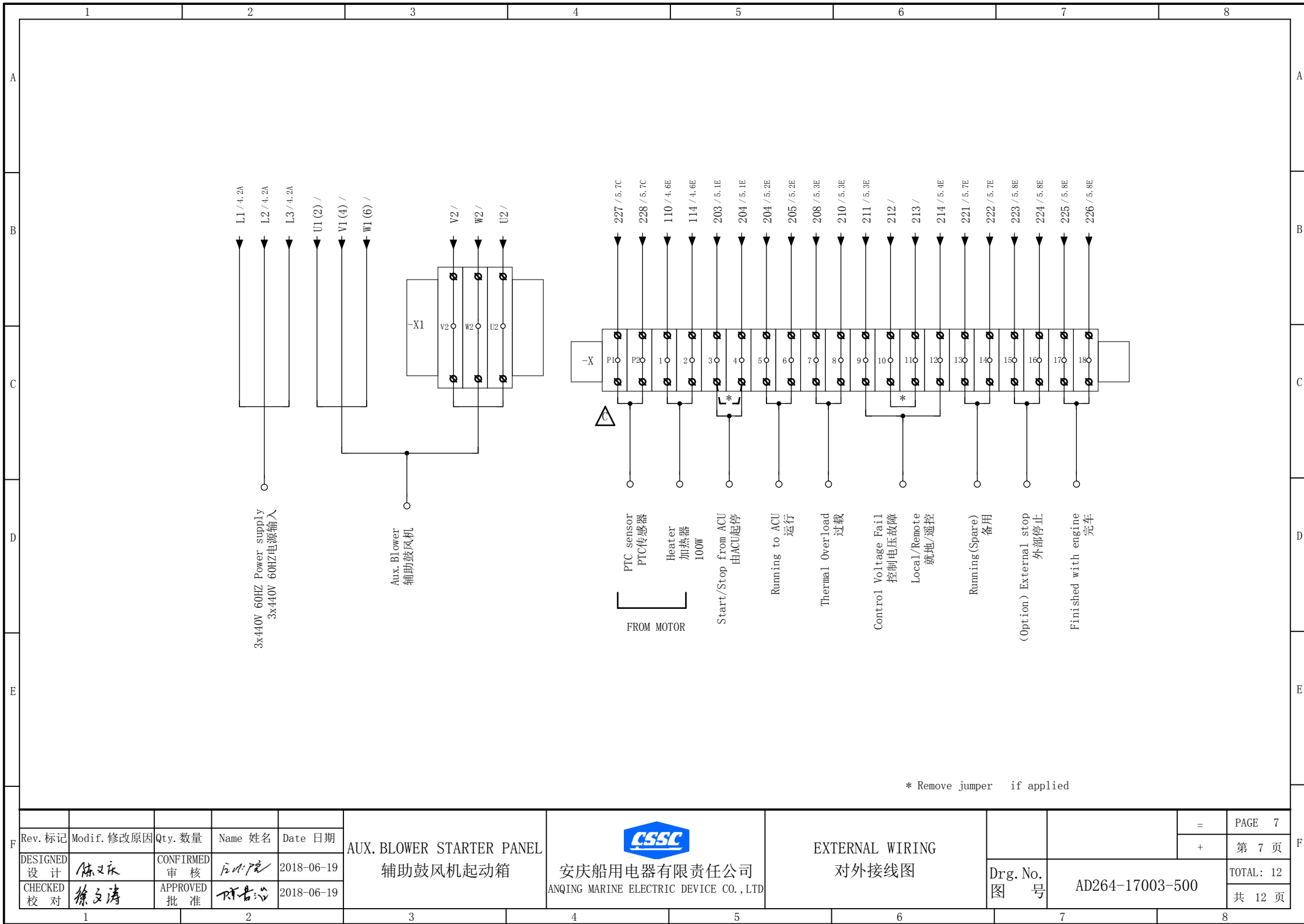
			E	增加EOCR-SS设定值说明	4	汪志远	2018-06-19
			D	马达功率改为87kW	4、8、9	徐文涛	2017-11-06
Designed 设计	陈义永	2018-06-19	C	马达功率改为43kW, 增加PTC保护器	4、5、6、7、 8、9	徐文涛	2017-07-12
Checked 校 对	徐文涛	2018-06-19	B	将热过载继电器改成 EOCR过流继电器	4、5、6、 8、10	徐文涛	2017-07-05
Confirmed 审 核	陈义永	2018-06-19	A	增加安装脚尺寸、 产品重量参数	3	徐文涛	2017-06-21
Approved 批 准	陈义永	2018-06-19	ReV. 标记	Modif. 修改原因	PAGE 页码	Name 姓 名	Date 日期
Drg. No. 图 号		AD264-17003					
					Page: 1 第 1 页	Total: 12 共 12 页	

1		2		3		4		5		6		7		8		
NO. 序号		DRG. 图		NO. 号		NAME 名 称				PAGE 页 码		REMARK 备 注				
A	1		AD264-17003			COVER 封面				1						
	2		AD264-17003-100			CONTENTS 目录				2						
	3		AD264-17003-200			OUTLINE 外形图				3						
B	4		AD264-17003-300			PRINCIPLE DIAGRAM 原理图				4						
	5		AD264-17003-301			PRINCIPLE DIAGRAM 原理图				5						
	6		AD264-17003-400			INTERNAL LAYOUT 内部布置图				6						
	7		AD264-17003-500			EXTERNAL WIRING 对外接线图				7						
C	8		AD264-17003-600			CHINESE ELEMENTS LIST 中文元件清单				8		For one panel set (Two panels are the same)				
	9		AD264-17003-601			CHINESE ELEMENTS LIST 2 中文元件清单2				9						
	10		AD264-17003-602			ENGLISH ELEMENTS LIST 英文元件清单				10						
	11		AD264-17003-603			ENGLISH ELEMENTS LIST 2 英文元件清单2				11						
D	12		AD264-17003-700			SPARE PARTS LIST 备件清单				12		For one ship set				
E																
F																
	Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		AUX. BLOWER STARTER PANEL		CONTENTS		PAGE 2	
	DESIGNED 设计		陈文庆		CONFIRMED 审核		陈文庆		2017-03-11		辅助鼓风机起动箱		安庆船用电器有限责任公司		第 2 页	
	CHECKED 校对		徐文涛		APPROVED 批准		陈文庆		2017-03-11		ANQING MARINE ELECTRIC DEVICE CO.,LTD		目录		TOTAL: 12	
1		2		3		4		5		6		7		8		









Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期
DESIGNED 设计	陈义永	CONFIRMED 审核	陈义永	2018-06-19
CHECKED 校对	徐文涛	APPROVED 批准	陈义永	2018-06-19

AUX. BLOWER STARTER PANEL 辅助鼓风机起动箱

 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD

EXTERNAL WIRING 对外接线图

		=	PAGE 7
		+	第 7 页
Dr. No. 图 号	AD264-17003-500	TOTAL: 12	
		共 12 页	

1		2		3		4		5		6		7		8															
序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制 造 商															
A	1	FR1		电子式过流继电器		EOCR-SS-05						1		施耐德															
	2	H1		指示灯		XB2BVB1LC		WH		AC/DC24V 白色		1		施耐德															
	3	H2		指示灯		XB2BVB3LC		GN		AC/DC24V 绿色		1		施耐德															
	4	H3		指示灯		XB2BVB4LC		RD		AC/DC24V 红色		1		施耐德															
B	5	H4		指示灯		XB2BVB6LC		BL		AC/DC24V 蓝色		1		施耐德															
	6	KA4		中间继电器		RXM 2AB2P7		AC230V		RXM2AB2P7		1		施耐德															
	7	KA5		中间继电器		RXM 4AB2B7		AC24V		RXM 4AB2B7		1		施耐德															
	8	KA5-1		中间继电器底座(2/4触点)		RXZE2M114						4		施耐德															
	9	KA5-KA7-1		金属保护夹子		RXZ400				RXZ400		4		施耐德															
	10	KA6		中间继电器		RXM 4AB2B7		AC24V		RXM 4AB2B7		1		施耐德															
C	11	KA7		中间继电器		RXM 4AB2B7		AC24V		RXM 4AB2B7		1		施耐德															
	12	KM1		交流接触器		LC1D115AM7C		115A		AC220		1		施耐德															
	13	KM1-1		辅助触头(侧装)		LAD8N11						1		施耐德															
	14	KM1-2		时间继电器(通电)		LADS2 (1~30s)				1-30s		1		施耐德															
	15	KM2		交流接触器		LC1D115AM7C		95A		AC220		1		施耐德															
	16	KM2-1		辅助触头		LADN31C				3NO+1NC		1		施耐德															
	17	KM3		交流接触器		LC1D80M7C		80A		AC220		1		施耐德															
	18	P11		船用过载电流表		F96-AC AC0-200-1200A		200/5A		1.5级 200/5A 50/60Hz		1		CCS 上海怡泰仪表有限公司															
D	19	P11-1		IP56 仪表防护罩		F96				配 F96		1		CCS 上海怡泰仪表有限公司															
	20	P21		计时器		F48-HC				AC24V 60HZ IP44		1		CCS 上海怡泰仪表有限公司															
	21	QF1		小型断路器		S202-K4		4A		2P 4A		1		ABB															
	22	QF2		小型断路器		S202-K2		2A		2P 2A		1		ABB															
E	23	QF3		小型断路器		S202-K4		4A		2P 4A		1		ABB															
	24	QF4		小型断路器		S202-K2		2A		2P 2A		1		ABB															
	25	QS1		塑壳式断路器		NSX160F MA-150 3P F		150A		150A电机保护 固定式板前接线		1		施耐德															
	26	QS1-1		断路器标准延伸旋转手柄		For NSX100/160/250				配NSX100/160/250 订货号: LV429338		1		施耐德															
	27	SA1		三位选择开关		XB2BD33C		BLK		2NO 黑色		1		施耐德															
	28	SB2		平头按钮(红色)		XB2BA42C		RD		红色 1NC		1		施耐德															
	29	SB3		平头按钮(绿色)		XB2BA31C		GN		绿色 1NO		1		施耐德															
F	30	T11		电流互感器		EOCR-3CT		200/5A		200/5A 1.25VA		1		施耐德															
	Rev. 标记	Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		AUX. BLOWER STARTER PANEL 辅助鼓风机起动机  ANQING MARINE ELECTRIC DEVICE CO., LTD		CHINESE ELEMENTS LIST 中文元件清单		Drg. No. 图 号		AD264-17003-600		=		PAGE 8									
	DESIGNED 设计	陈文永		CONFIRMED 审核		陈文永		2017-11-06										+		第 8 页									
	CHECKED 校对	徐文涛		APPROVED 批准		陈文永		2017-11-06												TOTAL: 12									
																			共 12 页										
1		2		3		4		5		6		7		8															

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序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制 造 商	
31		T12		变压器		JBK3-400 400VA 440V		400VA		F级 AC440/220V 250VA, 24V 150VA 60HZ TH		1		CCS上海红旗机床电器厂	
32		U1		电机延时过热保护器		GRB-6B-24-3						1		科亮	
33		X-1		挡板		D-UK2. 5						1		菲尼克斯	
34		X-2		固定器		E-UK						2		菲尼克斯	
35		X-3		标记号		ZB6						2		菲尼克斯	
36		X1		接线端子		UK2. 5B						20		菲尼克斯	

1		2		3		4		5		6		7		8										
NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.	MANUFACTURER													
A	1	FR1	EOCR-SS RELAY		EOCR-SS-05						1	Schneider												
	2	H1	INDICATING LAMP		XB2BVB1LC		WH		AC/DC24V WH		1	Schneider												
	3	H2	INDICATING LAMP		XB2BVB3LC		GN		AC/DC24V GRN		1	Schneider												
	4	H3	INDICATING LAMP		XB2BVB4LC		RD		AC/DC24V RED		1	Schneider												
B	5	H4	INDICATING LAMP		XB2BVB6LC		BL		AC/DC24V BLU		1	Schneider												
	6	KA4	RELAY		RXM 2AB2P7		AC230V				1	Schneider												
	7	KA5	RELAY		RXM 4AB2B7		AC24V				1	Schneider												
	8	KA5-1	RELAY SOCKET (2/4 Contact)		RXZE2M114						4	Schneider												
	9	KA5-KA7-1	CLAMP		RXZ400						4	Schneider												
	10	KA6	RELAY		RXM 4AB2B7		AC24V				1	Schneider												
C	11	KA7	RELAY		RXM 4AB2B7		AC24V				1	Schneider												
	12	KM1	CONTACTOR		LC1D115M7C		115A		AC220		1	Schneider												
	13	KM1-1	AUX. CONTACT BLOCK		LAD8N11				RELAY		1	Schneider												
	14	KM1-2	TIME RELAY		LADS2 (1~30s)				1-30s		1	Schneider												
	15	KM2	CONTACTOR		LC1D115M7C		115A		AC220		1	Schneider												
	16	KM2-1	AUX. CONTACT BLOCK		LADN31C				3NO+1NC		1	Schneider												
	17	KM3	CONTACTOR		LC1D80M7C		80A		AC220		1	Schneider												
	18	P11	AMMETER AC		F96-AC AC0-200-1200A		200/5A		200/5A 50/60Hz CL. 1. 5		1	CCS SHANGHAI YITAI I&M Ltd												
D	19	P11-1	PROTECT COVER		F96				For F96		1	CCS SHANGHAI YITAI I&M Ltd												
	20	P21	TIME COUNTER		F48-HC				AC24V 60HZ IP44		1	CCS SHANGHAI YITAI I&M Ltd												
	21	QF1	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB												
	22	QF2	MINITYPE BREAKER		S202-K2		2A		2P 2A		1	ABB												
	23	QF3	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB												
E	24	QF4	MINITYPE BREAKER		S202-K2		2A		2P 2A		1	ABB												
	25	QS1	MOLDED CASE CIRC. BREAKER		NSX160F MA-150 3P F		150A		150A		1	Schneider												
	26	QS1-1	EXTEND ROTARY HANDLE		For NSX100/160/250				For NSX100/160/250 LV429338		1	Schneider												
	27	SA1	SELECT SWITCH		XB2BD33C		BLK		2NO BLK		1	Schneider												
	28	SB2	BUTTON		XB2BA42C		RD		RD, 1NC		1	Schneider												
	29	SB3	BUTTON		XB2BA31C		GN		GN, 1NO		1	Schneider												
F	30	T11	CURRENT TRANSFORMER		EOCR-3CT		200/5A		200/5A 1. 25VA		1	Schneider												
	Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		AUX. BLOWER STARTER PANEL				ENGLISH ELEMENTS LIST		Drg. No.		图 号		AD264-17003-602		TOTAL: 12	
	DESIGNED 设计		陈文永		CONFIRMED 审核		陈文永		2017-11-06															
	CHECKED 校对		徐文涛		APPROVED 批准		陈文永		2017-11-06		辅助鼓风机起动机箱		安庆船用电器有限责任公司		英文元件清单						共 12 页			
	ANQING MARINE ELECTRIC DEVICE CO., LTD																							
1		2		3		4		5		6		7		8										

文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5			
		台 份 Set No.					
		工程编号 Engine No.					
		船 厂 Shipyard		NTS			
		船 号 Hull No.		0311113/14/15/16/17/18/19/20			
		船级社 Classification Society		ABS			
CMD-MAN B&W 6G60ME-C MK9.5 STARTER FOR TURNING GEAR E-7 盘车机起动器							
						5	
						4	
Page4:add the information of glands.						3	
Page3-5:增加遥控手柄绕线盘，安装板厚度，插座重量。						2	
Page15: The quantity of scocket is changed from 1 to 2.						1	
修 改 说 明 Corrected Description							
						5	
						4	
王勇 20170904	易志银20170904	刘闯20170904				3	
王勇 20170703	易志银20170703	杜清20170703				2	
王勇 20170525	易志银 20170525	杜清 20170525				1	
易志银 20170308	王勇 20170308	杜清 20170308				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	15
 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.		D6519904-6.	



安庆船用电器有限责任公司

ANQING MARINE ELECTRIC DEVICE CO., LTD

TURNING GEAR STARTER PANEL

盘车机起动箱

Type: MTB-AD106

型号: MTB-AD106



ADD: 3.9 Square Kilometer Industrial Park In AnQing

Economic and Technical Development Zone.

地址: 安徽省安庆市经济技术开发区3.9平方工业园三城寺路

Tel 电话: +86-556-5315485

Fax 传真: +86-556-5311583

Postal 邮编: 246005

E-mail: aq485jyb@163.com

Drawing type: Turning Gear Starting Panel

图纸类型: 盘车机起动箱

D/E NO. (机型): 6G60ME-C9.5

Hull NO. (船号): 0311113/14/15/16/17/18/19/20

Shipyard: New Times Shipbuilding Co., Ltd

船 厂: 江苏新时代造船有限公司

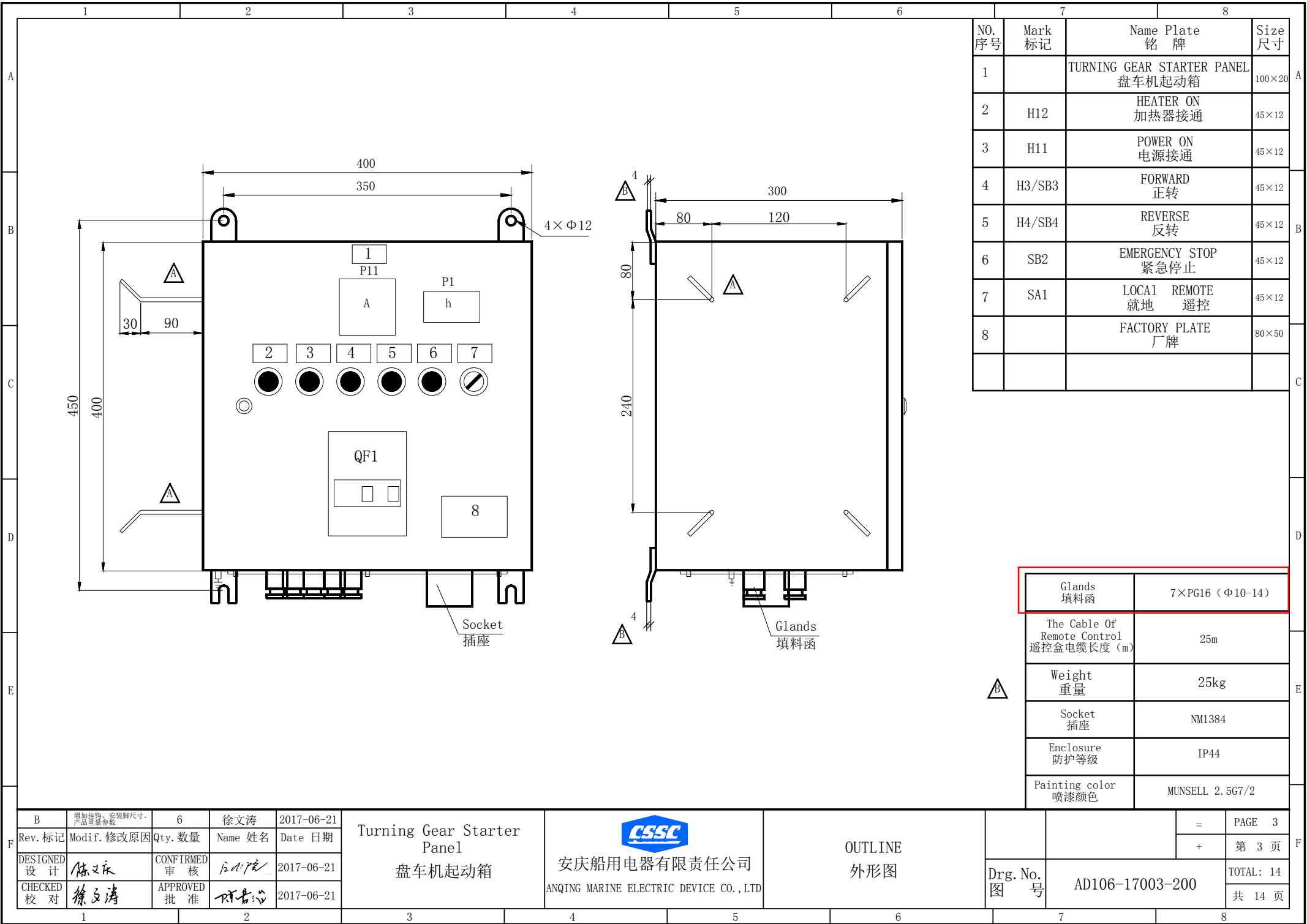
D/E Maker: CSSC-MES Diesel Co., Ltd

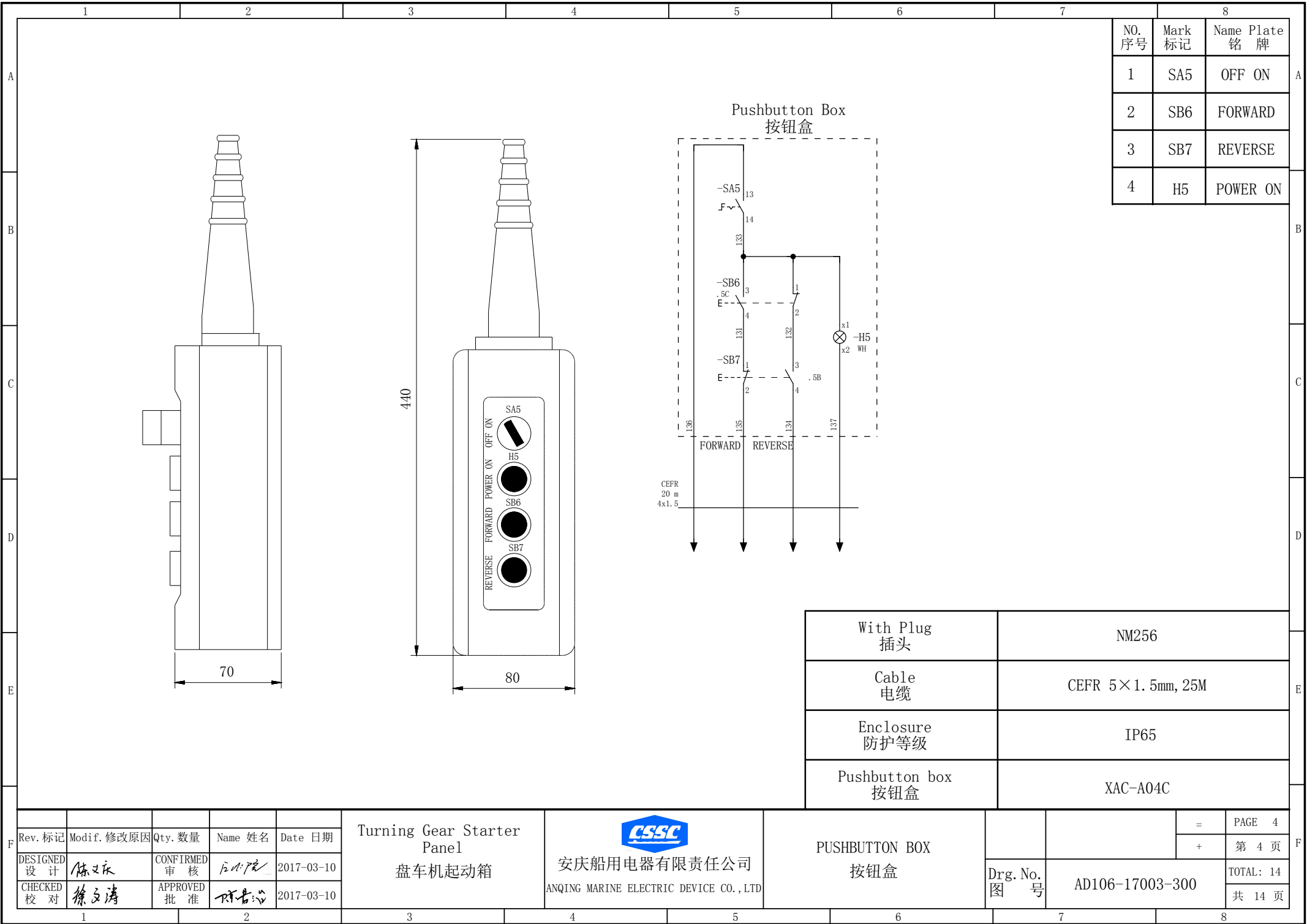
柴油机制造商: 上海中船三井造船柴油机有限公司

Class 船级社: ABS

Designed 设 计	陈文涛	2017-07-13	C	电机功率改为4.6KW	6	徐文涛	2017-7-13
Checked 校 对	徐文涛	2017-07-13	B	增加挂钩、安装脚尺寸、 产品重量参数	3、5	徐文涛	2017-06-21
Confirmed 审 核	陈文涛	2017-07-13	A	将散供的插座改成2个	7、9、14	徐文涛	2017-5-25
Approved 批 准	陈文涛	2017-07-13	ReV. 标记	Modif. 修改原因	PAGE 页码	Name 姓 名	Date 日期
Drg. No. 图 号		AD106-17003					
					Page: 1 第 1 页	Total: 14 共 14 页	

1		2		3		4		5		6		7		8	
NO. 序号		DRG. 图		NO. 号		NAME 名 称				PAGE 页 码		REMARK 备 注			
A	1		AD106-17003			COVER 封面				1					
	2		AD106-17003-100			CONTENTS 目录				2					
	3		AD106-17003-200			OUTLINE 外形图				3					
B	4		AD106-17003-300			PUSHBUTTON BOX 按钮盒				4					
	5		AD106-17003-400			SOCKET NM3041 NM3041插座				5					
	6		AD106-17003-500			PRINCIPLE DIAGRAM 原理图				6					
	7		AD106-17003-501			PRINCIPLE DIAGRAM 原理图				7					
C	8		AD106-17003-600			INTERNAL LAYOUT 原理图				8					
	9		AD106-17003-700			EXTERNAL WIRING 对外接线图				9					
	10		AD106-17003-800			CHINESE ELEMENTS LIST 中文元件清单				10					
	11		AD106-17003-801			CHINESE ELEMENTS LIST 中文元件清单 2				11					
D	12		AD106-17003-802			ENGLISH ELEMENTS LIST 英文元件清单				12					
	13		AD106-17003-803			ENGLISH ELEMENTS LIST 英文元件清单 2				13					
	14		AD106-17003-900			SPARE PARTS LIST 备附件清单				14					

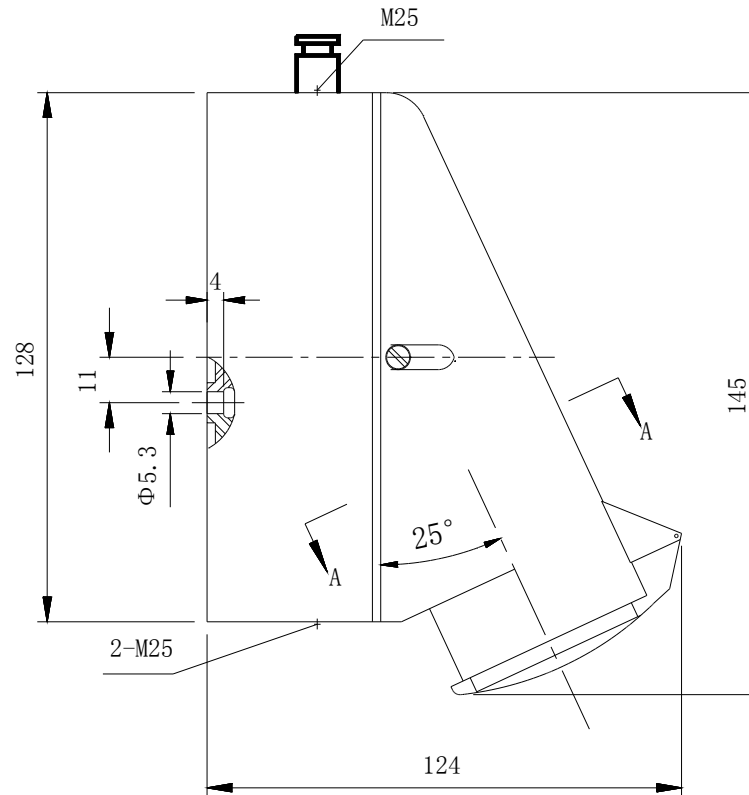
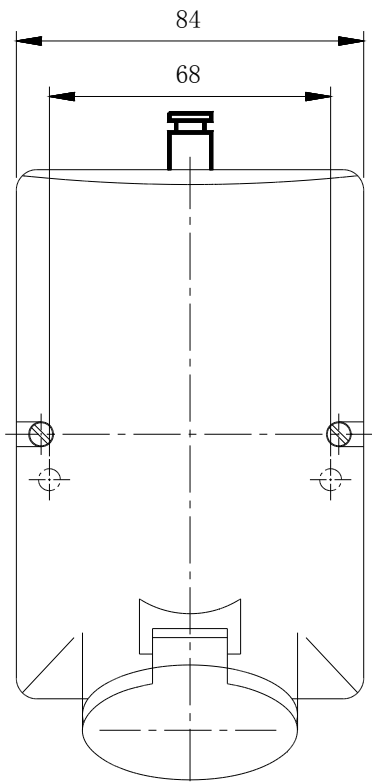




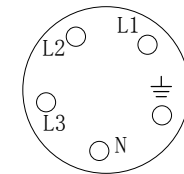
N0. 序号	Mark 标记	Name Plate 铭 牌
1	SA5	OFF ON
2	SB6	FORWARD
3	SB7	REVERSE
4	H5	POWER ON

With Plug 插头	NM256
Cable 电缆	CEFR 5×1.5mm, 25M
Enclosure 防护等级	IP65
Pushbutton box 按钮盒	XAC-A04C

					Turning Gear Starter Panel 盘车机起动箱	 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD	PUSHBUTTON BOX 按钮盒			=	PAGE 4	
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期							+	第 4 页
DESIGNED 设计	陈义永	CONFIRMED 审核	江小虎	2017-03-10							TOTAL: 14	
CHECKED 校对	徐文涛	APPROVED 批准	陈吉心	2017-03-10								共 14 页



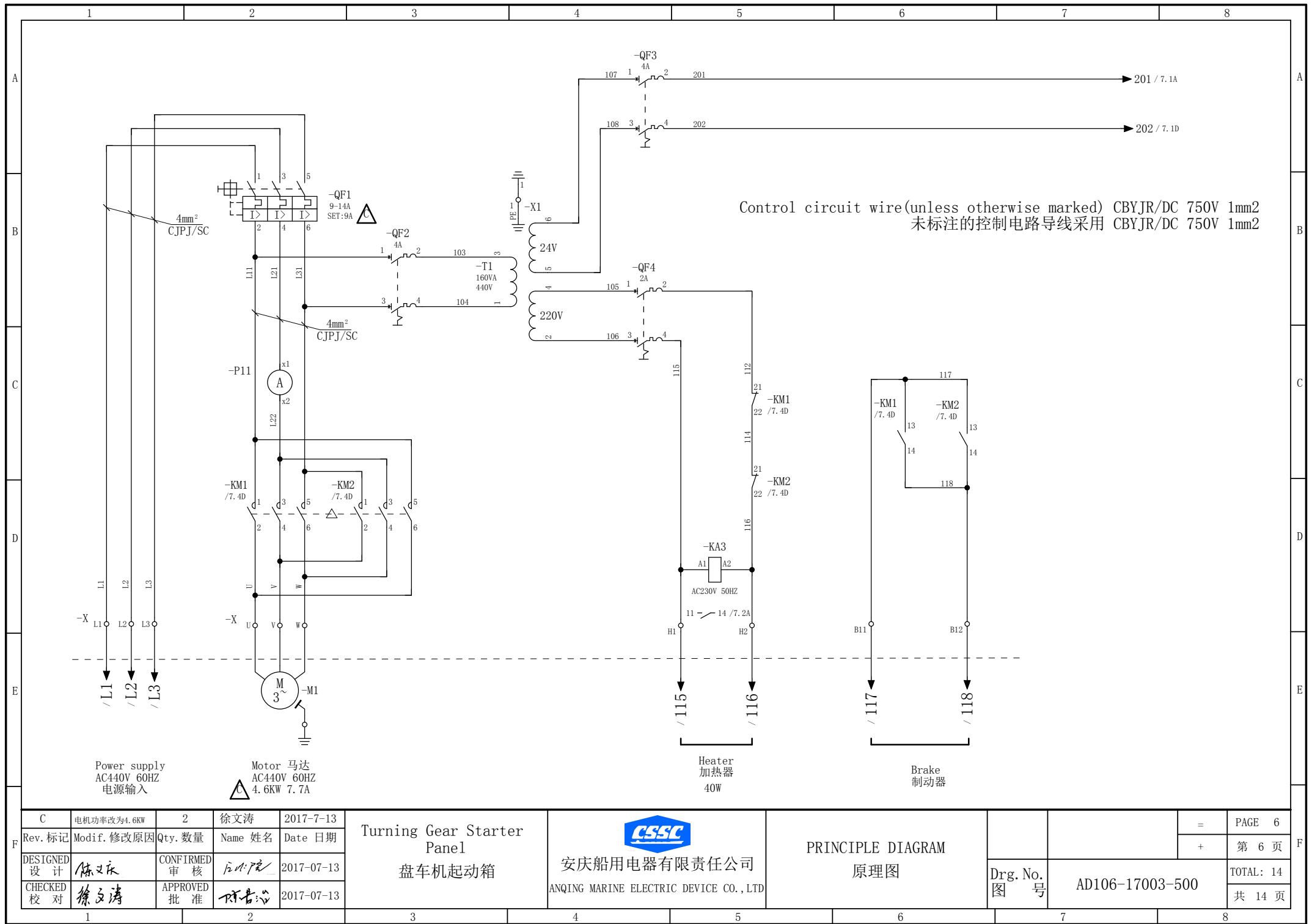
A-A
Terminal arrangement
端子排列

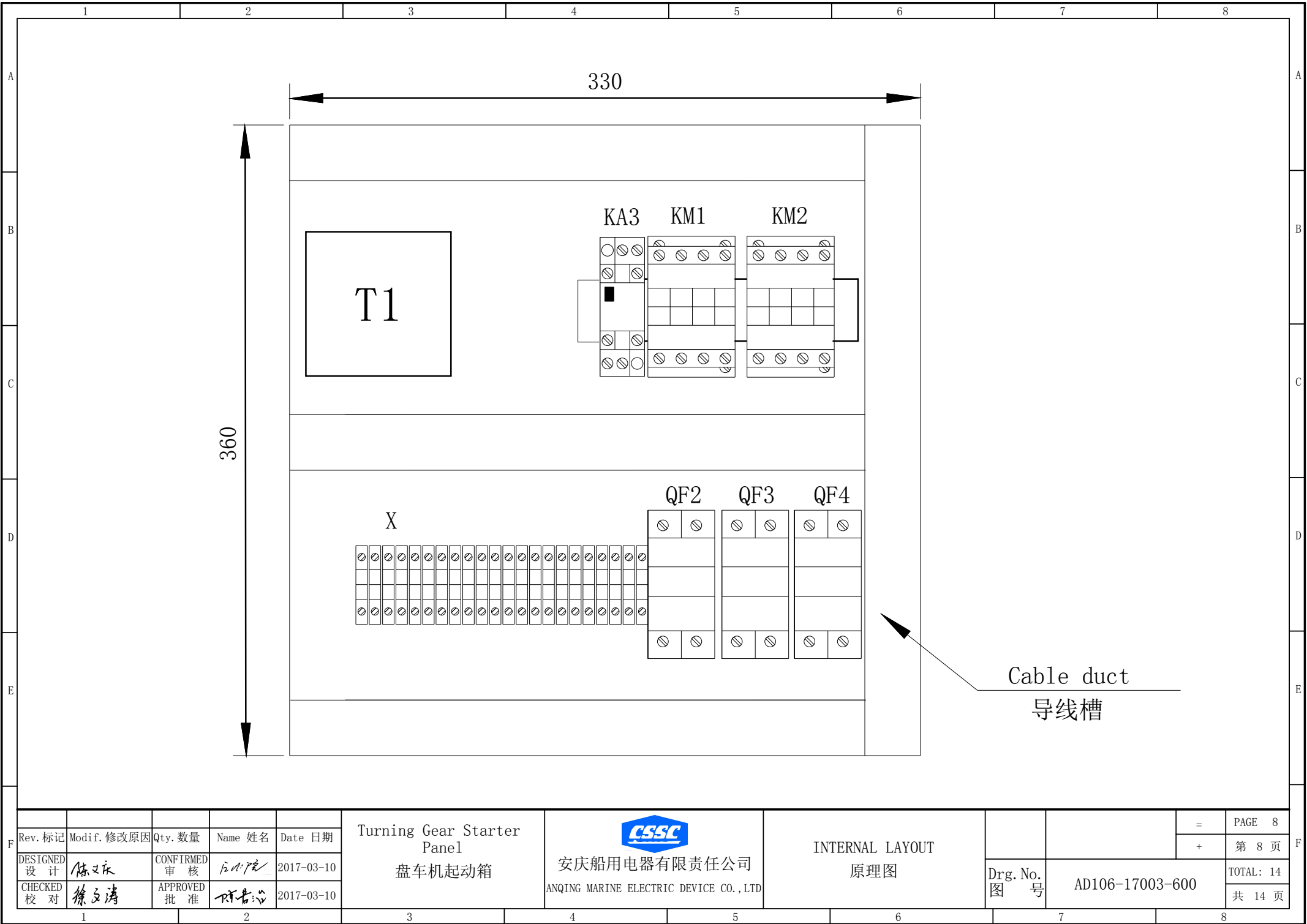


The socker is not spare,It is allocated on the ship
此插座是用于装在船上，不是备品

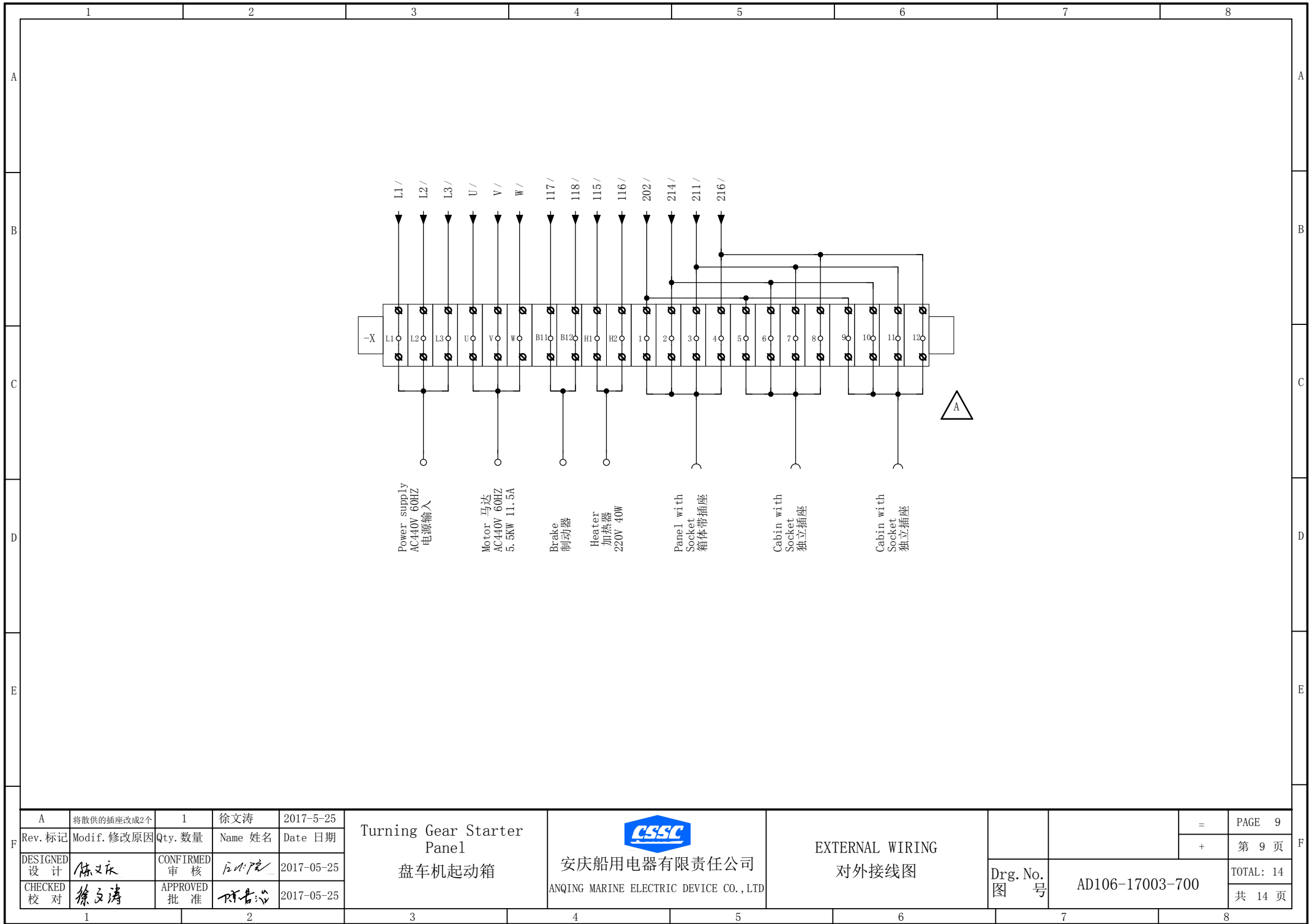
△ Weight:0.5kg
重量:0.5kg
Enclosure:IP44
防护等级:IP44

B	增加产品重量参数	1	徐文涛	2017-06-21	Turning Gear Starter Panel 盘车机起动箱	 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD	SOCKET NM3041 NM3041插座	Drg. No. 图 号	AD106-17003-400	TOTAL: 14 共 14 页	=	PAGE 5
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期							+	第 5 页
DESIGNED 设 计	陈文涛	CONFIRMED 审 核	陈文涛	2017-06-21								
CHECKED 校 对	徐文涛	APPROVED 批 准	陈文涛	2017-06-21								





					Turning Gear Starter Panel 盘车机起动箱	 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD	INTERNAL LAYOUT 原理图			=	PAGE 8
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期						+	第 8 页
DESIGNED 设计	陈义永	CONFIRMED 审核	江小虎	2017-03-10				Drg. No. 图 号	AD106-17003-600	TOTAL: 14	
CHECKED 校对	徐文涛	APPROVED 批准	陈书心	2017-03-10						共 14 页	



A	将散供的插座改成2个	1	徐文涛	2017-5-25
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期
DESIGNED 设计	陈文永	CONFIRMED 审核	陈文永	2017-05-25
CHECKED 校对	徐文涛	APPROVED 批准	陈文永	2017-05-25

Turning Gear Starter
Panel
盘车机起动箱


安庆船用电器有限责任公司
ANQING MARINE ELECTRIC DEVICE CO., LTD

EXTERNAL WIRING
对外接线图

		=	PAGE 9
		+	第 9 页
Drg. No. 图 号	AD106-17003-700	TOTAL: 14	
		共 14 页	

1		2		3		4		5		6		7		8										
序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制造商										
A	1	H1		指示灯		XB2BVB1LC				AC/DC24V 白色		1		施耐德										
	2	H2		指示灯		XB2BVB6LC				AC/DC24V 蓝色		1		施耐德										
	3	KA3		中间继电器（4触点）		RXM 4AB2P7		AC230V 50HZ				1		施耐德										
	4	KA3-1		中间继电器基座(2/4触点)		RXZE2M114						1		施耐德										
B	5	KA3-2		金属保护夹子		RXZ400						1		施耐德										
	6	KM1		交流接触器		LC1D18B7C		18A		AC24 50/60Hz		1		施耐德										
	7	KM1-1		辅助触头		LADN22C						1		施耐德										
	8	KM1-2		联锁机构		LAD9R1				用于LC1-D09~D38		1		施耐德										
	9	KM2		交流接触器		LC1D18B7C		18A		AC24 50/60Hz		1		施耐德										
	10	KM2-1		辅助触头		LADN22C						1		施耐德										
C	11	P1		计时器		F48-HC				AC24V 60HZ IP44		1		CCS 上海怡泰仪表有限公司										
	12	P11		船用过载电流表		F72-AC AC 0-15A-90A				1.5级 50/60HZ		1		CCS 上海怡泰仪表有限公司										
	13	P11-1		IP56 仪表防护罩		F72				配 F72		1		CCS 上海怡泰仪表有限公司										
	14	QF1		小型电机断路器		GV2-ME16C		9-14A				1		施耐德										
	15	QF1-1		电机断路器外壳		GV2MP02				IP55		1		施耐德										
	16	QF2		小型断路器		S202-K4		4A		2P 4A		1		ABB										
D	17	QF3		小型断路器		S202-K4		4A		2P 4A		1		ABB										
	18	QF4		小型断路器		S202-K2		2A		2P 2A		1		ABB										
	19	SA1		两位选择开关		XB2BD25C				1NO+1NC 黑色		1		施耐德										
	20	SB2		蘑菇头按钮		XB2BS542C		RED		1NC 红色		1		施耐德										
	21	SB3		带灯按钮		XB2BW33B1C				1NO 绿色		1		施耐德										
	22	SB4		带灯按钮		XB2BW33B1C				1NO 绿色		1		施耐德										
E	23	SB4-1		一常闭按钮本体		ZB2BE102C				1NC		1		施耐德										
	24	T1		变压器		JBK3-160 160VA		160VA		F AC440/220V 80VA, 24V 80VA 60HZ TH		1		CCS上海红旗机床电器厂										
	25	X		接线端子		UK2. 5B						18		菲尼克斯										
	26	X-1		标记号		ZB6						2		菲尼克斯										
	27	X-2		固定器		E-UK						6		菲尼克斯										
	28	X-3		挡板		D-UK2. 5						1		菲尼克斯										
F	29	X-4		标记号		ZB6						1		菲尼克斯										
	30	XP1		插座		NM1384		16 A		16A 5P AC110V 50~60HZ		1		南京曼奈柯斯电器有限公司										
	Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		Turning Gear Starter Panel 盘车机起动机箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD		CHINESE ELEMENTS LIST 中文元件清单		Drg. No. 图 号		AD106-17003-800		=		PAGE 10	
	DESIGNED 设计		陈文永		CONFIRMED 审核		江小虎		2017-03-10												+		第 10 页	
CHECKED 校对		徐文涛		APPROVED 批准		陈若心		2017-03-10										TOTAL: 14 共 14 页						
1		2		3		4		5		6		7		8										

1		2		3		4		5		6		7		8	
序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制 造 商	
31		XP2		插头		NM256		16 A		16A 5P AC110V 50~60HZ		1		南京曼奈柯斯电器有限公司	
32		XP3		插座		NM3041		16 A		16A 5P AC110V 50~60HZ		1		南京曼奈柯斯电器有限公司	
33		Z		遥控按钮盒		XAC-A04C				盘车机专用		1		施耐德	

1		2		3		4		5		6		7		8															
NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.		MANUFACTURER																	
A	1	H1	INDICATING LAMP		XB2BVB1LC				AC/DC24V WH		1		Schneider																
	2	H2	INDICATING LAMP		XB2BVB6LC				AC/DC24V BLU		1		Schneider																
	3	KA3	RELAY		RXM 4AB2P7		AC230V 50HZ				1		Schneider																
	4	KA3-1	RELAY SOCKET (2/4 Contact)		RXZE2M114						1		Schneider																
B	5	KA3-2	CLAMP		RXZ400						1		Schneider																
	6	KM1	CONTACTOR		LC1D18B7C		18A		AC24 50/60Hz		1		Schneider																
	7	KM1-1	AUX. CONTACT BLOCK		LADN22C						1		Schneider																
	8	KM1-2	INTERLOCK ELEMENT		LAD9R1				Fit LC1-D09~D38		1		Schneider																
	9	KM2	CONTACTOR		LC1D18B7C		18A		AC24 50/60Hz		1		Schneider																
	10	KM2-1	AUX. CONTACT BLOCK		LADN22C						1		Schneider																
C	11	P1	TIME COUNTER		F48-HC				AC24V 60HZ IP44		1		CCS SHANGHAI YITAI I&M Ltd																
	12	P11	AMMETER AC		F72-AC AC 0-15A-90A				CL.1.5 50/60HZ		1		CCS SHANGHAI YITAI I&M Ltd																
	13	P11-1	PROTECT COVER		F72				For F72		1		CCS SHANGHAI YITAI I&M Ltd																
	14	QF1	CIRCUIT BREAKER		GV2-ME16C		9-14A				1		Schneider																
	15	QF1-1	BREAKER COVER		GV2MP02				IP55		1		Schneider																
	16	QF2	MINITYPE BREAKER		S202-K4		4A		2P 4A		1		ABB																
D	17	QF3	MINITYPE BREAKER		S202-K4		4A		2P 4A		1		ABB																
	18	QF4	MINITYPE BREAKER		S202-K2		2A		2P 2A		1		ABB																
	19	SA1	SELECT SWITCH		XB2BD25C				1NO +1NC BLK		1		Schneider																
	20	SB2	PUSH BUTTON		XB2BS542C		RED		1NC RED		1		Schneider																
	21	SB3	BUTTON WITH LAMP		XB2BW33B1C				1NO green		1		Schneider																
	22	SB4	BUTTON WITH LAMP		XB2BW33B1C				1NO green		1		Schneider																
E	23	SB4-1	CONTACT ELEMENT		ZB2BE102C				1NC		1		Schneider																
	24	T1	VOLTAGE TRANSFORMER		JBK3-160 160VA		160VA				1		CCS SHANGHAI REDFLAG M/T EEF.,																
	25	X	TERMINAL		UK2. 5B						18		PHOENIX CONTACT																
	26	X-1	LABEL		ZB6						2		PHOENIX CONTACT																
	27	X-2	END STATOR		E-UK						6		PHOENIX CONTACT																
	28	X-3	SIDE SUPPORT		D-UK2. 5						1		PHOENIX CONTACT																
F	29	X-4	LABEL		ZB6						1		PHOENIX CONTACT																
	30	XP1	SOCKET		NM1384		16 A		16A 5P AC110V 50~60HZ		1		NANJING MENNEKES																
Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		Turning Gear Starter Panel		盘车机起动机箱		ENGLISH ELEMENTS LIST		英文元件清单		Drg. No. 图号		AD106-17003-802		PAGE 12		第 12 页		TOTAL: 14		共 14 页	
DESIGNED 设计		陈文永		CONFIRMED 审核		陈文永		2017-03-10		ANQING MARINE ELECTRIC DEVICE CO., LTD																			
CHECKED 校对		陈文涛		APPROVED 批准		陈文涛		2017-03-10																					
1		2		3		4		5		6		7		8															

1		2		3		4		5		6		7		8	
NO.		MARK		NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.		MANUFACTURER	
31		XP2		PLUG		NM256		16 A		16A 5P AC110V 50~60HZ		1		NANJING MENNEKES	
32		XP3		SOCKET		NM3041		16 A		16A 5P AC110V 50~60HZ		1		NANJING MENNEKES	
33		Z		PUSH BUTTON BOX		XAC-A04C				FOUR HOLE		1		Schneider	

1		2		3		4		5		6		7		8										
NO. 序号		NAME 名称		DESCRIPTION AND SPECIFICATION 型号规格		OUTLINE 外形		QTY. 数量		REMARK 备注		MANUFACTURER 生产厂家												
A	1	INDICATING LAMP 指示灯		XB2BVB1LC				1		AC/DC24V WH AC/DC24V 白色		Schneider 施耐德												
	2	RELAY 中间继电器（4触点）		RXM 4AB2P7				1				Schneider 施耐德												
B	3	RELAY SOCKET（2/4 Contact） 中间继电器基座 (2/4触点)		RXZE2M114				1				Schneider 施耐德												
	4	SELECT SWITCH 两位选择开关		XB2BD25C				1		1NO +1NC BLK 1NO+1NC 黑色		Schneider 施耐德												
	5	button 平头按钮 (红色)		XB2BA42C				1		RD, 1NC 红色 1NC		Schneider 施耐德												
C	6	BUTTON WITH LAMP 带灯按钮		XB2BW33B1C				1		1NO green 1NO 绿色		Schneider 施耐德												
	7	CONTACT ELEMENT 一常闭按钮本体		ZB2BE102C				1		1NC 1NC		Schneider 施耐德												
以下插座为附件，由船厂安装																								
E	1	SOCKET 插座		NM3041				2		16A 5P AC110V 50~60HZ 16A 5P AC110V 50~60HZ		NANJING MENNEKES 南京曼奈柯斯电器有限公司												
	⚠																							
F	A		将散供的插座改成2个		1		徐文涛		2017-5-25		Turning Gear Starter Panel 盘车机起动机箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD		SPARE PARTS LIST 备附件清单		Drg. No. 图 号		AD106-17003-900		=		PAGE 14	
	Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期												+		第 14 页	
	DESIGNED 设计		陈文永		CONFIRMED 审核		陈文永		2017-05-25										TOTAL: 14					
	CHECKED 校对		徐文涛		APPROVED 批准		陈文永		2017-05-25										共 14 页					
1			2			3			4			5			6			7			8			

文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5		
		台 份 Set No.				
		工程编号 Engine No.				
		船 厂 Shipyard		NTS		
		船 号 Hull No.		0311115/16/17/18/19/20		
		船级社 Classification Society		ABS		
CMD-MAN B&W 6G60ME-C MK9.5 STARTER FOR HPS PUMP 7 电动泵起动器						
						5
Page5:modify the value of FR1.						4
Add the lamp for main L.O. pump stop.						3
Page4:add the information of glands.						2
Page20:增加本体总重。						1
修 改 说 明 Corrected Description						
						5
王勇 20180620	魏守刚 20180620	刘闯 20180620				4
王勇 20180620	魏守刚 20180620	刘闯 20180620				3
王勇 20170904	易志银20170904	刘闯20170904				2
王勇 20170703	易志银20170703	杜清20170703				1
易志银 20170308	王勇 20170308	杜清20170308				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	总页数 Total Pages	13
 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.	D6519910-5.	



安庆船用电器有限责任公司

ANQING MARINE ELECTRIC DEVICE CO., LTD

HPS STARTER PANELS

HPS液压供应起动箱

Type: SB-AD326

型号: SB-AD326



ADD: 3.9 Square Kilometer Industrial Park In AnQing

Economic and Technical Development Zone.

地址: 安徽省安庆市经济技术开发区3.9平方工业园三城寺路

Tel 电话: +86-556-5315485

Fax 传真: +86-556-5311583

Postal 邮编: 246005

E-mail: aq485jyb@163.com

Drawing type: HPS STARTER PANELS

图纸类型: HPS起动箱

D/E NO. (机型): 6G60ME-C9.5#42/#43/#44/#45/#46/#47

Hull NO. (船号): 0311115/16/17/18/19/20

Shipyard: New Times Shipbuilding Co., Ltd

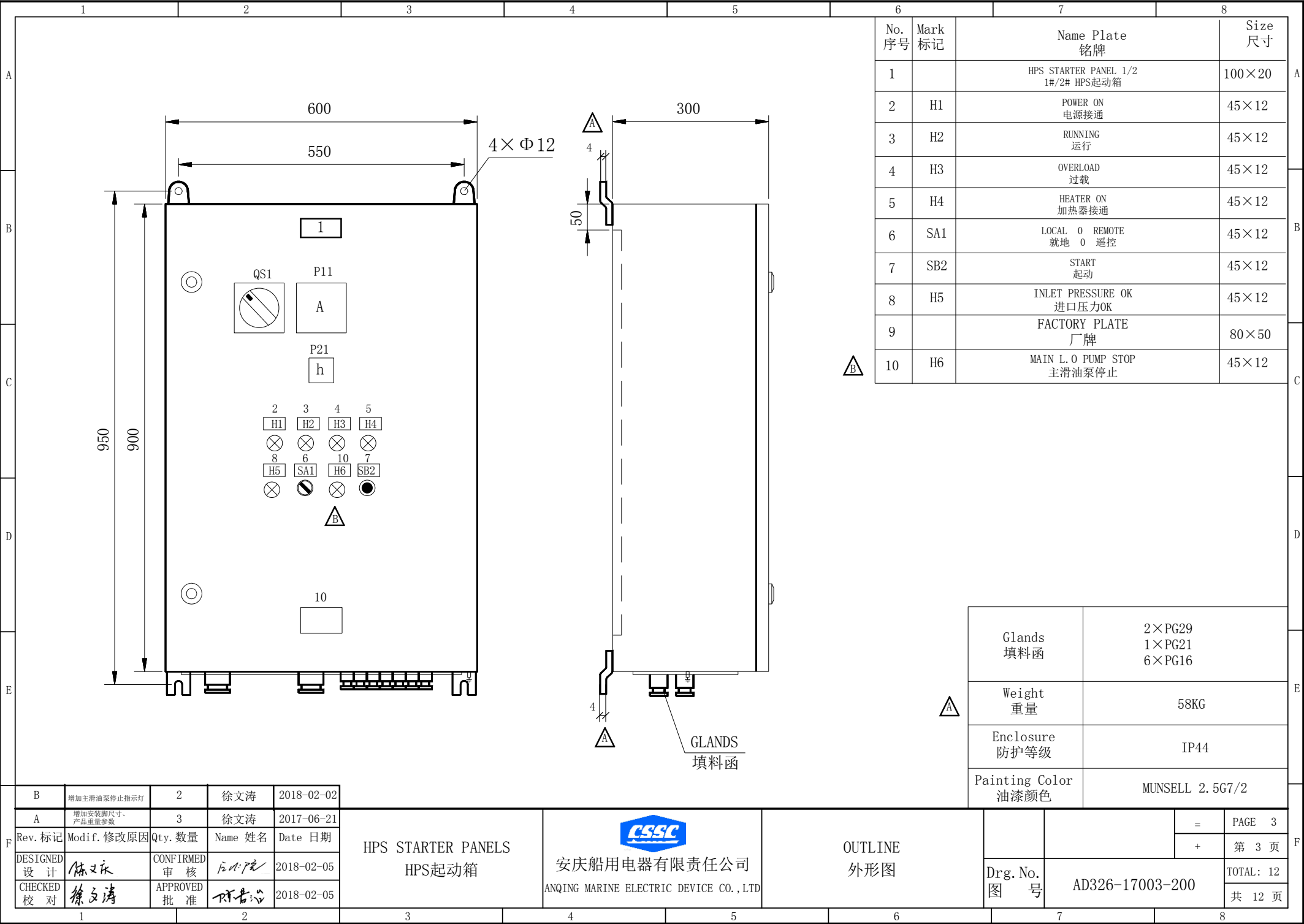
船 厂: 江苏新时代造船有限公司

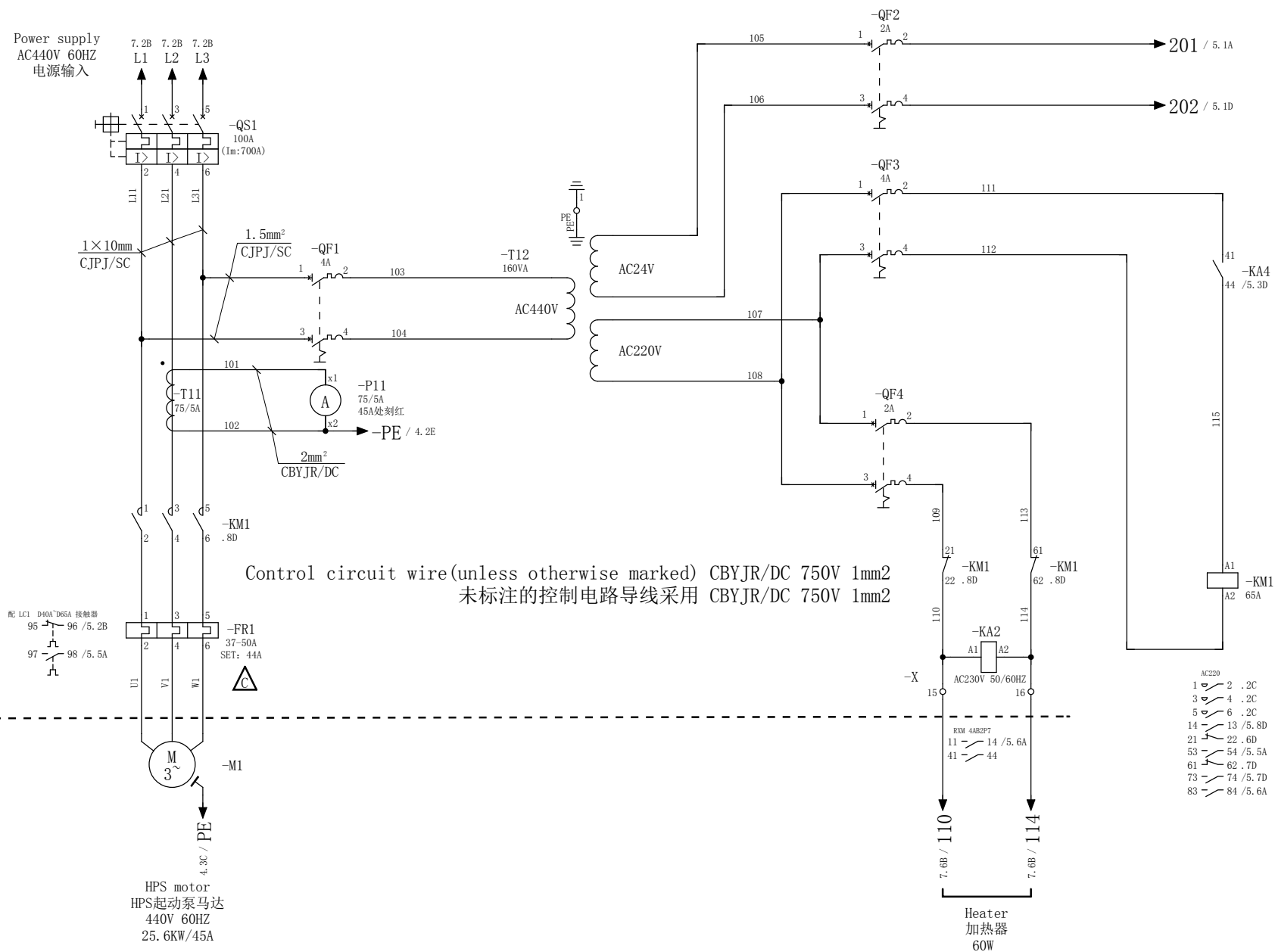
D/E Maker: CSSC-MES Diesel Co., Ltd

柴油机制造商: 上海中船三井造船柴油机有限公司

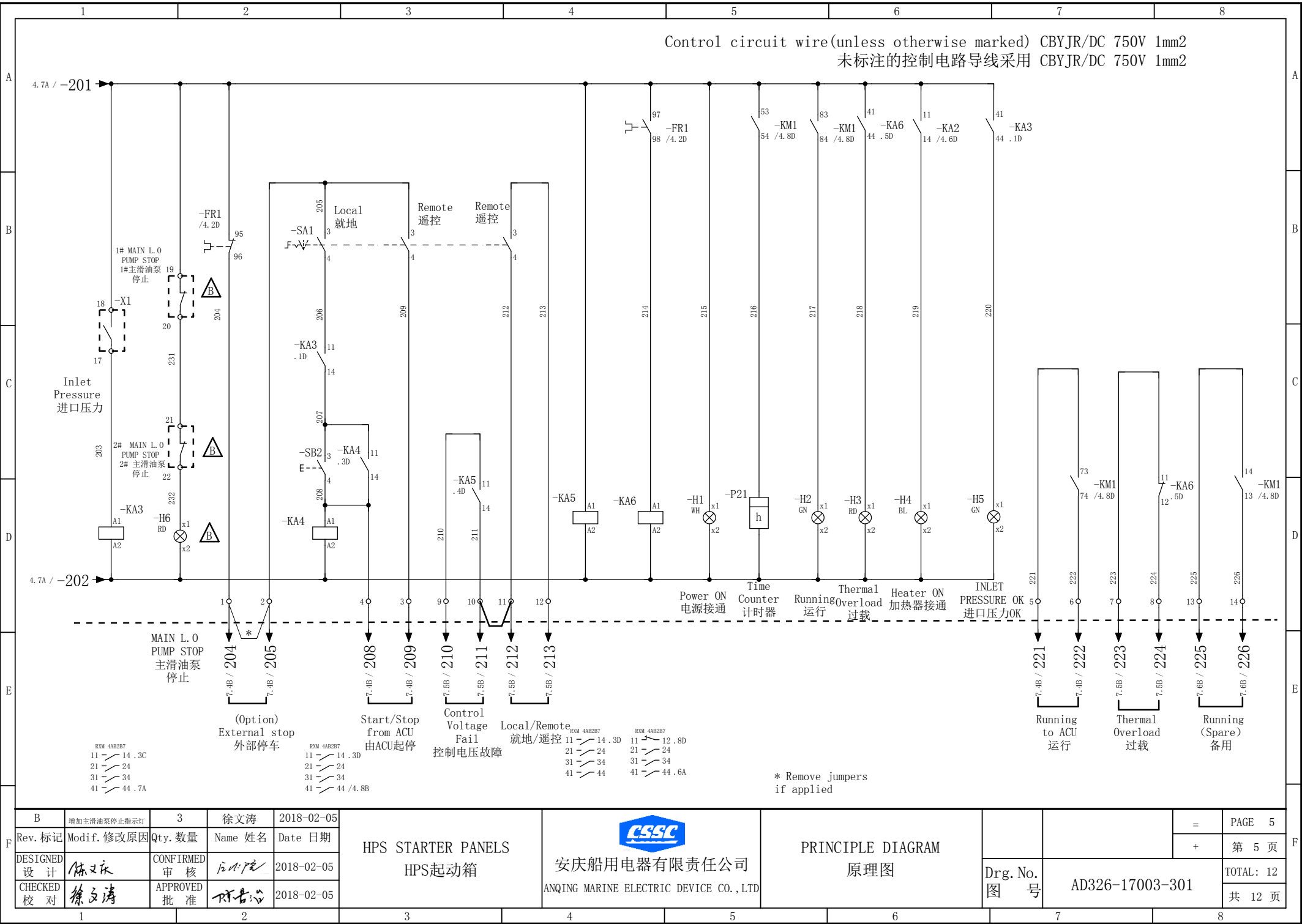
Class 船级社: ABS

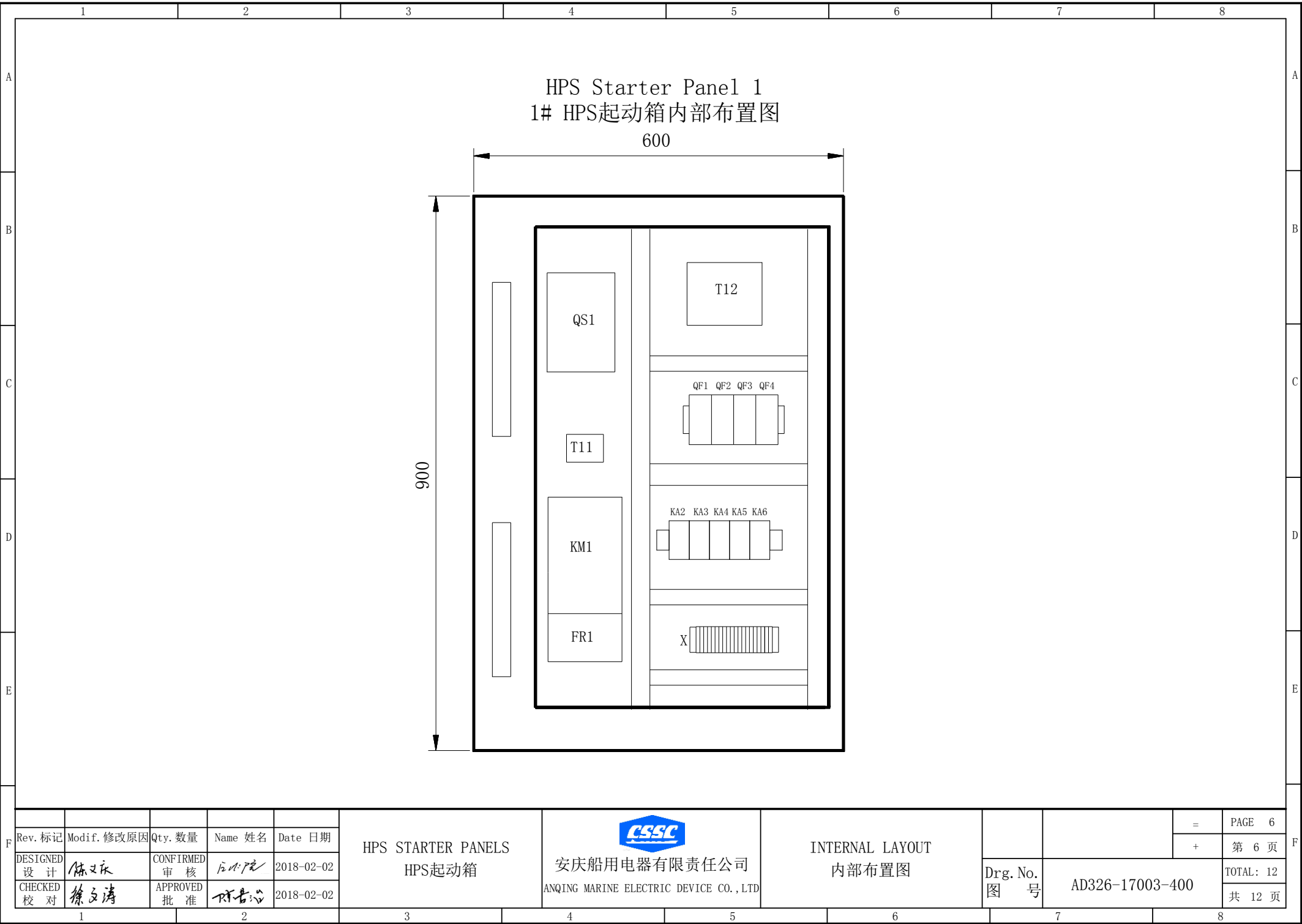
Designed 设 计	陈义永	2018-06-19	B	按照要求 修改热继电器设定值	4	汪志远	2018-06-19
Checked 校 对	徐文涛	2018-06-19	B	增加主滑油泵停止指示灯	3、5、7	徐文涛	2018-02-05
Confirmed 审 核	陈义永	2018-06-19	A	增加安装脚尺寸、 产品重量参数、更新电气型号	3、8、10、12	陈义永	2017-06-21
Approved 批 准	陈义永	2018-06-19	ReV. 标记	Modif. 修改原因	PAGE 页码	Name 姓 名	Date 日期
Drg. No. 图 号	AD326-17003						
					Page: 1 第 1 页	Total: 12 共 12 页	

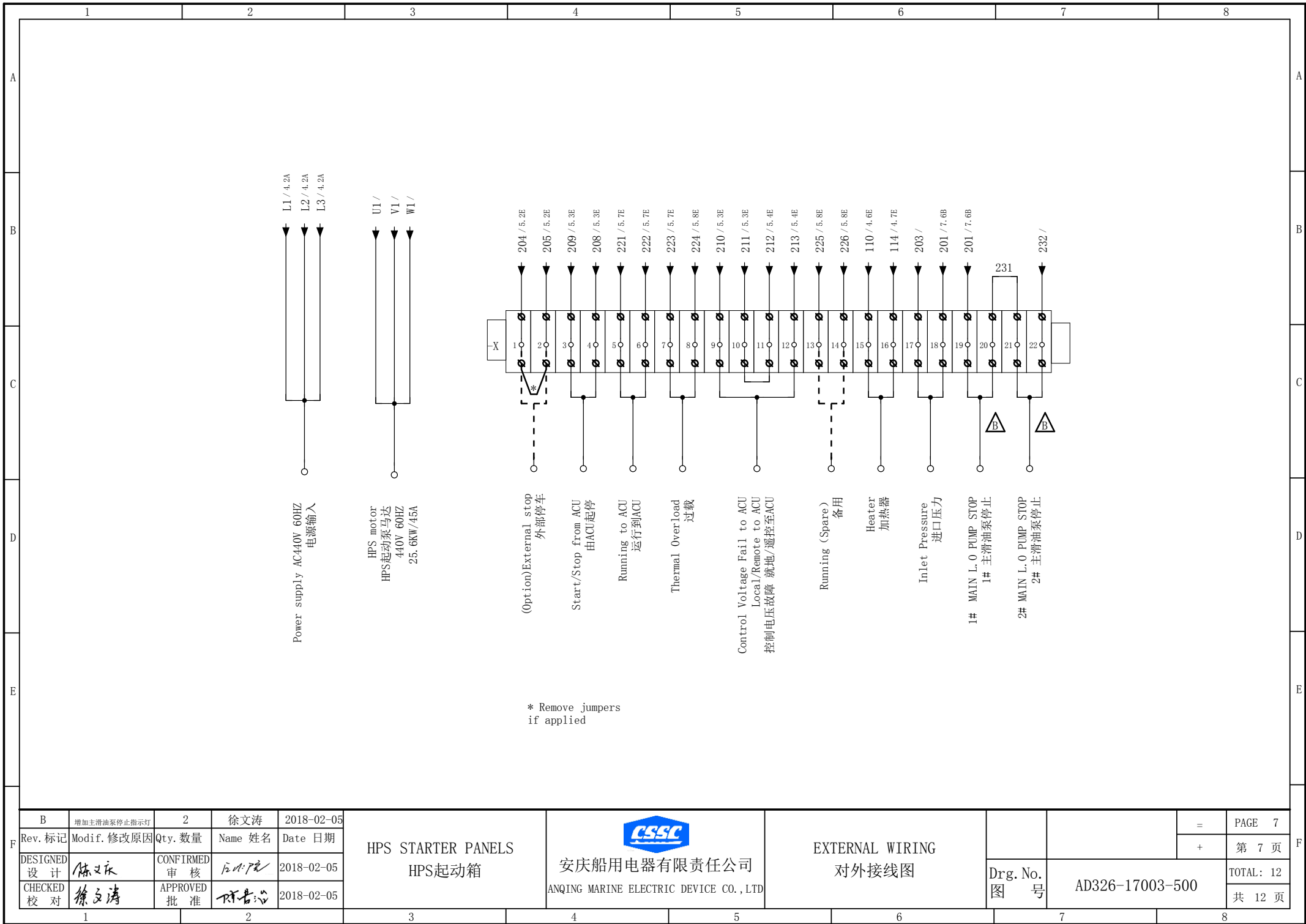




C	按照要求 修改热继电器设定值	1	汪志远	2018-06-19	HPS STARTER PANELS HPS起动箱	 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD	PRINCIPLE DIAGRAM 原理图	F	F			=	PAGE 4	
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期										+ 第 4 页
DESIGNED 设 计	陈文永	CONFIRMED 审 核	汪志远	2018-06-19										
CHECKED 校 对	徐文涛	APPROVED 批 准	陈文永	2018-06-19										
1			2											







B	增加主滑油泵停止指示灯	2	徐文涛	2018-02-05
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期
DESIGNED 设计	陈文涛	CONFIRMED 审核	陈文涛	2018-02-05
CHECKED 校对	徐文涛	APPROVED 批准	陈文涛	2018-02-05

HPS STARTER PANELS
HPS启动箱


安庆船用电器有限责任公司
ANQING MARINE ELECTRIC DEVICE CO., LTD

EXTERNAL WIRING
对外接线图

Drg. No.
图 号

AD326-17003-500

TOTAL: 12
共 12 页

= PAGE 7
+ 第 7 页

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序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制造商							
A	1	FR1		热过载继电器		LRD350C		37-50A		配 LC1 D40A~D65A 接触器		1		施耐德							
	2	H1		指示灯		XB2BVB1LC		WH		AC/DC24V 白色		1		施耐德							
	3	H2		指示灯		XB2BVB3LC		GN		AC/DC24V 绿色		1		施耐德							
	4	H3		指示灯		XB2BVB4LC		RD		AC/DC24V 红色		1		施耐德							
	5	H4		指示灯		XB2BVB6LC		BL		AC/DC24V 蓝色		1		施耐德							
B	6	H5		指示灯		XB2BVB3LC		GN		AC/DC24V 绿色		1		施耐德							
	7	KA2		中间继电器		RXM 4AB2P7		AC230V 50/60HZ		RXM 4AB2P7		1		施耐德							
	8	KA2-KA6-1		中间继电器基座 (2/4触点)		RXZE2M114		△				5		施耐德							
	9	KA2-KA6-2		金属保护夹子		RXZ400				RXZ400		5		施耐德							
	10	KA3		中间继电器		RXM 4AB2B7				RXM 4AB2B7		1		施耐德							
C	11	KA4		中间继电器		RXM 4AB2B7				RXM 4AB2B7		1		施耐德							
	12	KA5		中间继电器		RXM 4AB2B7				RXM 4AB2B7		1		施耐德							
	13	KA6		中间继电器		RXM 4AB2B7				RXM 4AB2B7		1		施耐德							
	14	KM1		交流接触器		LC1D65AM7C		65A		AC220		1		施耐德							
	15	KM1-1		辅助触头		LA1-DN31C				3NO+1NC		1		施耐德							
D	16	P11		船用过载电流表		F96-AC ACO-75-450A		75/5A		1.5级 75/5A 50/60HZ		1		CCS 上海怡泰仪表有限公司							
	17	P11-1		IP56 仪表防护罩		F96				配 F96		1		CCS 上海怡泰仪表有限公司							
	18	P21		计时器		F48-HC				AC24V 60HZ IP44		1		CCS 上海怡泰仪表有限公司							
	19	QF1		小型断路器		S202-K4		4A		2P 4A		1		ABB							
	20	QF2		小型断路器		S202-K2		2A		2P 2A		1		ABB							
E	21	QF3		小型断路器		S202-K4		4A		2P 4A		1		ABB							
	22	QF4		小型断路器		S202-K2		2A		2P 2A		1		ABB							
	23	QS1		塑壳式断路器		NSX100F MA-100 3P F		100A		100A电机保护 固定式板前接线		1		施耐德							
	24	QS1-1		断路器标准延伸旋转手柄		For NSX100/160/250				配NSX100/160/250 订货号: LV429338		1		施耐德							
	25	SA1		三位选择开关		XB2BD33C				2NO 黑色		1		施耐德							
F	26	SA1-1		一常开按钮本体		ZB2BE101C				1NO		1		施耐德							
	27	SB2		平头按钮 (绿色)		XB2BA31C				绿色 1NO		1		施耐德							
	28	T11		电流互感器		BH-0.66-30IF TH 75/5A		75/5A		75/5A 2.5VA		1		上海彼爱琪电器厂							
	29	T12		变压器		JBK3-160 160VA		160VA		F级AC440/220V 80VA, 24V 80VA 60HZ TH		1		CCS上海红旗机床电器厂							
	30	X		接线端子		UK2.5B						20		菲尼克斯							
A		更新电气型号		1		徐文涛		2017-06-21		HPS STARTER PANELS HPS启动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD		CHINESE ELEMENTS LIST 中文元件清单		Drg. No. 图 号		AD326-17003-700		= PAGE 8 + 第 8 页 TOTAL: 12 共 12 页	
Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期													
DESIGNED 设 计				CONFIRMED 审 核				2017-06-21													
CHECKED 校 对				APPROVED 批 准				2017-06-21													
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	31	X-1	标记号		ZB6						2	菲尼克斯				
	32	X-2	固定器		E-UK						2	菲尼克斯				
	33	X-3	挡板		D-UK2. 5						1	菲尼克斯				
B																
C																
D																
E																
F						HPS STARTER PANELS HPS起动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO.,LTD		CHINESE ELEMENTS LIST 2 中文元件清单2				=	PAGE 9	
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期									+	第 9 页		
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CHECKED 校 对	徐文涛	APPROVED 批 准	陈文泳	2017-06-21										共 12 页		
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NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.	MANUFACTURER					
A	1	FR1	THERMAL RELAY		LRD350C		37-50A		For LC1 D40A~D65A CONTACTOR		1	Schneider				
	2	H1	INDICATING LAMP		XB2BVB1LC		WH		AC/DC24V WH		1	Schneider				
	3	H2	INDICATING LAMP		XB2BVB3LC		GN		AC/DC24V GRN		1	Schneider				
	4	H3	INDICATING LAMP		XB2BVB4LC		RD		AC/DC24V RED		1	Schneider				
B	5	H4	INDICATING LAMP		XB2BVB6LC		BL		AC/DC24V BLU		1	Schneider				
	6	H5	INDICATING LAMP		XB2BVB3LC		GN		AC/DC24V GRN		1	Schneider				
	7	KA2	RELAY		RXM 4AB2P7		AC230V 50/60HZ				1	Schneider				
	8	KA2-KA6-1	RELAY SOCKET (2/4 Contact)		RXZE2M114						5	Schneider				
C	9	KA2-KA6-2	CLAMP		RXZ400						5	Schneider				
	10	KA3	RELAY		RXM 4AB2B7						1	Schneider				
	11	KA4	RELAY		RXM 4AB2B7						1	Schneider				
	12	KA5	RELAY		RXM 4AB2B7						1	Schneider				
D	13	KA6	RELAY		RXM 4AB2B7						1	Schneider				
	14	KM1	CONTACTOR		LC1D65AM7C		65A		AC220		1	Schneider				
	15	KM1-1	AUX. CONTACT BLOCK		LA1-DN31C				3NO+1NC		1	Schneider				
	16	P11	AMMETER AC		F96-AC ACO-75-450A		75/5A		CL. 1.5 75/5A 50/60HZ		1	CCS SHANGHAI YITAI I&M Ltd				
E	17	P11-1	PROTECT COVER		F96				For F96		1	CCS SHANGHAI YITAI I&M Ltd				
	18	P21	TIME COUNTER		F48-HC				AC24V 60HZ IP44		1	CCS SHANGHAI YITAI I&M Ltd				
	19	QF1	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB				
	20	QF2	MINITYPE BREAKER		S202-K2		2A		2P 2A		1	ABB				
F	21	QF3	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB				
	22	QF4	MINITYPE BREAKER		S202-K2		2A		2P 2A		1	ABB				
	23	QS1	MOLDED CASE CIRC. BREAKER		NSX100F MA-100 3P F		100A		100A		1	Schneider				
	24	QS1-1	EXTEND ROTARY HANDLE		For NSX100/160/250				For NSX100/160/250 LV429338		1	Schneider				
G	25	SA1	SELECT SWITCH		XB2BD33C				2NO BLK		1	Schneider				
	26	SA1-1	CONTACT ELEMENT		ZB2BE101C				1NO		1	Schneider				
	27	SB2	BUTTON		XB2BA31C				GN, 1NO		1	Schneider				
	28	T11	CURRENT TRANSFORMER		BH-0.66-30IF TH 75/5A		75/5A		75/5A 2.5VA		1	SHAGHAI BH ELECTRIC				
H	29	T12	VOLTAGE TRANSFORMER		JBK3-160 160VA		160VA		AC440/220V 80VA, 24V 80VA 60HZ TH		1	CCS SHANGHAI YITAI I&M Ltd				
	30	X	TERMINAL		UK2.5B						20	PHOENIX CONTACT				
I	A	更新电气型号		1	徐文涛	2017-06-21	HPS STARTER PANELS HPS启动箱	 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD	ENGLISH ELEMENTS LIST 英文元件清单	Drg. No. 图 号	AD326-17003-702	TOTAL: 12 共 12 页				
	Rev. 标记	Modif. 修改原因		Qty. 数量	Name 姓名	Date 日期										
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	CHECKED 校对	徐文涛		APPROVED 批准	陈文涛	2017-06-21										
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A	NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.	MANUFACTURER			A								
	31	X-1	LABEL		ZB6						2	PHOENIX CONTACT											
	32	X-2	END STATOR		E-UK						2	PHOENIX CONTACT											
	33	X-3	SIDE SUPPORT		D-UK2. 5						1	PHOENIX CONTACT											
B															B								
C															C								
D															D								
E															E								
F															F								
Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		HPS STARTER PANELS HPS起动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO.,LTD		ENGLISH ELEMENTS LIST 2 英文元件清单2		Drg. No. 图 号 AD326-17003-703		=		PAGE 11			
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CHECKED 校对		徐文涛		APPROVED 批准		陈文庆		2017-06-21										TOTAL: 12					
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1			2			3			4			5			6			7			8		

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NO. 序号		NAME 名称		DESCRIPTION AND SPECIFICATION 型号规格		OUTLINE 外形		QTY. 数量		REMARK 备注		MANUFACTURER 生产厂家			
A	1	INDICATING LAMP 指示灯		XB2BVB1LC				1		AC/DC24V White AC/DC24V 白色		Schneider 施耐德			
	2	INDICATING LAMP 指示灯		XB2BVB4LC				1		AC/DC24V White AC/DC24V 红色		Schneider 施耐德			
B	3	INDICATING LAMP 指示灯		XB2BVB3LC				1		AC/DC24V GRN AC/DC24V 绿色		Schneider 施耐德			
	4	INDICATING LAMP 指示灯		XB2BVB6LC				1		AC/DC24V BLU AC/DC24V 蓝色		Schneider 施耐德			
	5	RELAY 中间继电器（4触点）		RXM 4AB2P7				1				Schneider 施耐德			
C	6	RELAY SOCKET（2/4 Contact） 中间继电器基座（2/4触点）		RXZE2M114 				5				Schneider 施耐德			
	7	RELAY 中间继电器		RXM 4AB2B7				1				Schneider 施耐德			
	8	SELECT SWITCH 三位选择开关		XB2BD33C				1		2NO BLK 2NO 黑色		Schneider 施耐德			
D	9	CONTACT ELEMENT 一常开按钮本体		ZB2BE101C				1		1NO 1NO		Schneider 施耐德			
	10	INDICATING LAMP 平头按钮		XB2BA31C				1		1NO Green 1NO 绿色		Schneider 施耐德			

文件说明 Document Remarks		机 型 Eng. Type		CMD-MAN-B&W 6G60ME-C9.5		
		台 份 Set No.				
		工程编号 Engine No.				
		船 厂 Shipyard		NTS		
		船 号 Hull No.		0311113/14/15/16/17/18/19/20		
		船级社 Classification Society		ABS		
CMD-MAN B&W 6G60ME-C MK 9.5 STARTER FOR LDCL 8. LDCL起动机						
Page5:modify the power of motor.						5
Page5:modify the value of FR1.						4
Page21:add a additional signal of running.						3
Page17:add the information of glands.						2
Page17:add the information of weight.						1
修 改 说 明 Corrected Description						
王勇 20180628	魏守刚 20180628	刘闯 20180628				5
王勇 20180620	魏守刚 20180620	刘闯 20180620				4
王勇 20171011	魏守刚20171011	刘闯20171011				3
王勇 20170904	易志银20170904	刘闯20170904				2
王勇 20170703	易志银20170703	杜清20170703				1
易志银 20170308	王勇 20170308	杜清20170308				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
 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.	D6515740-5.	



安庆船用电器有限责任公司

ANQING MARINE ELECTRIC DEVICE CO., LTD

LDCL CIRCULATION PUMP STARTER CABINET

LDCL循环泵起动箱

Type: CPC-AD404

型号: CPC-AD404



ADD: 3.9 Square Kilometer Industrial Park In AnQing

Economic and Technical Development Zone.

地址: 安徽省安庆市经济技术开发区3.9平方工业园三城寺路

Tel 电话: +86-556-5315485

Fax 传真: +86-556-5311583

Postal 邮编: 246005

E-mail: aq485jyb@163.com

Drawing type: LDCL CIRCULATION PUMP STARTER CABINET

图纸类型: LDCL 循环泵启动箱

D/E NO. (机型): 6G60ME-C9.5#40/#41/#42/#43/#44/#45/#46/#47

Hull NO. (船号): 0311113/14/15/16/17/18/19/20

Shipyard: New Times Shipbuilding Co., Ltd

船 厂: 江苏新时代造船有限公司

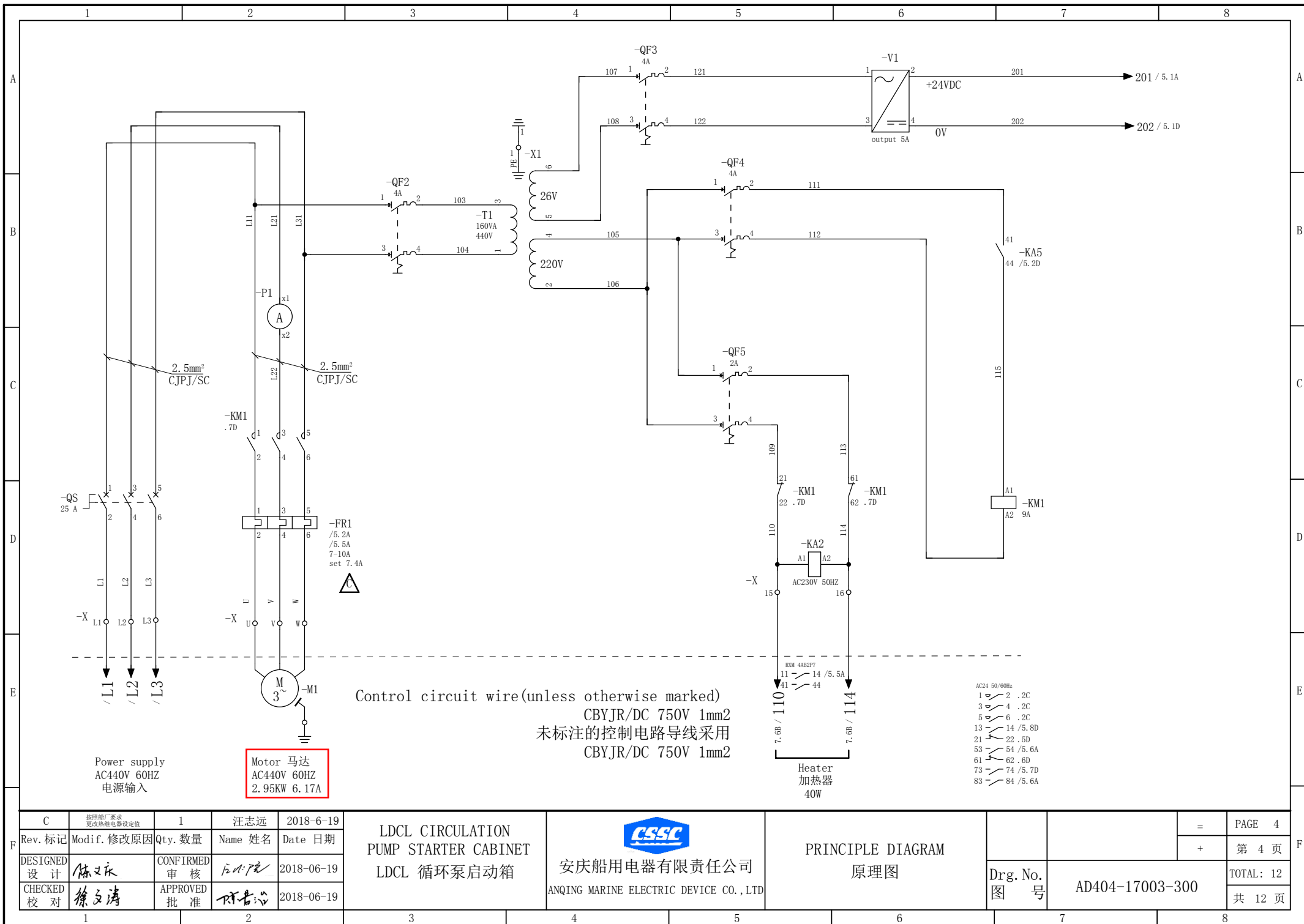
D/E Maker: CSSC-MES Diesel Co., Ltd

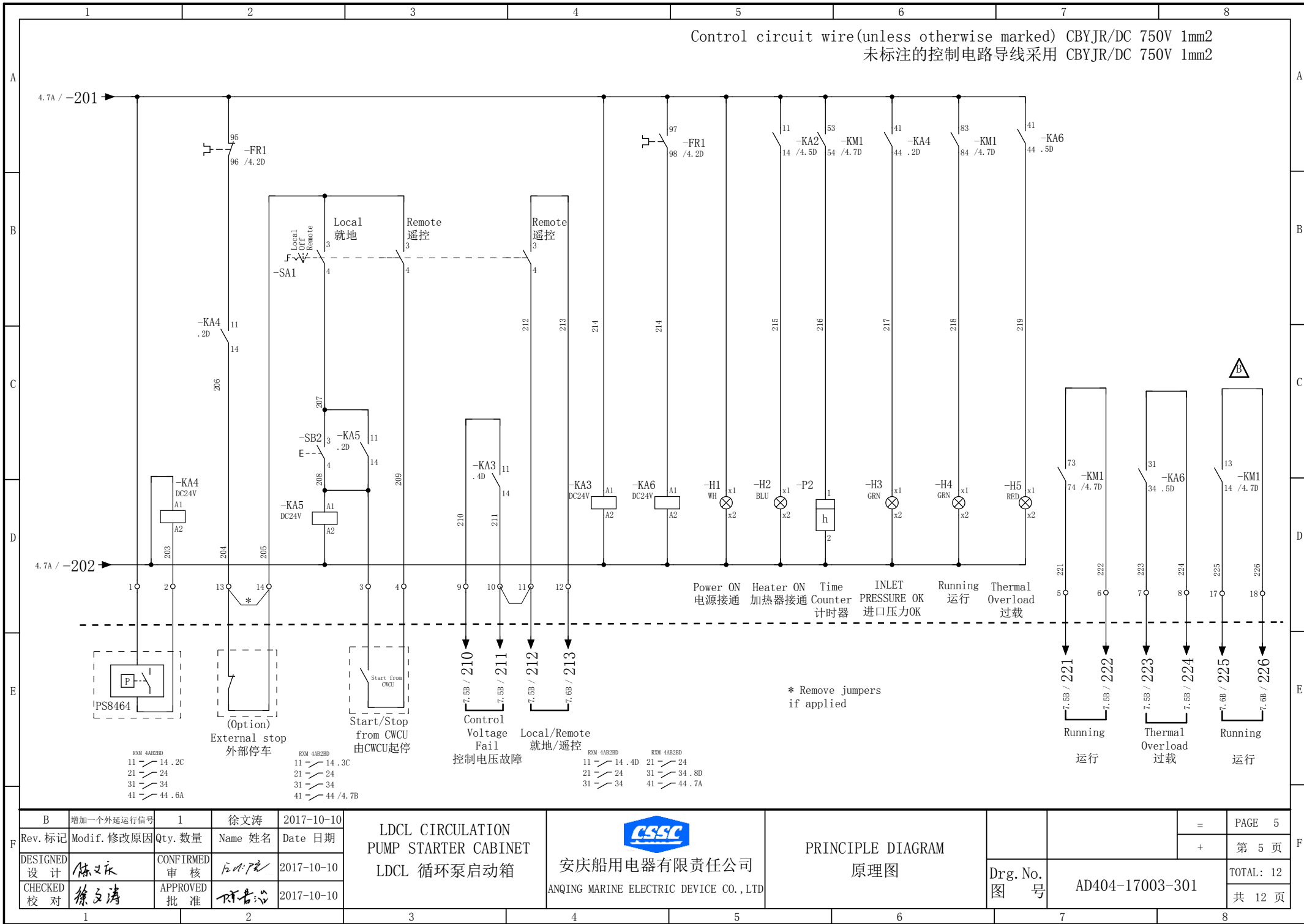
柴油机制造商: 上海中船三井造船柴油机有限公司

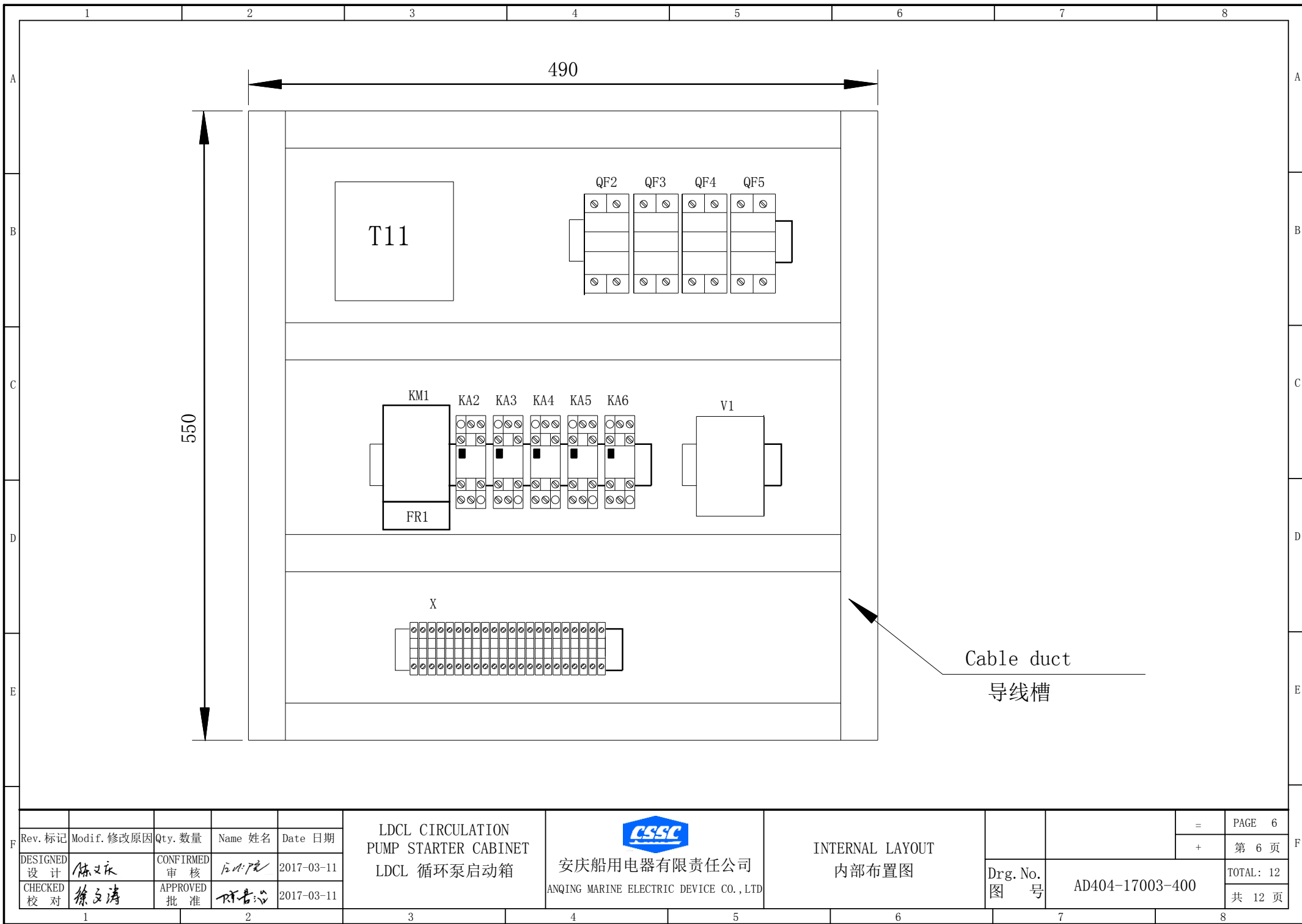
Class 船级社: ABS

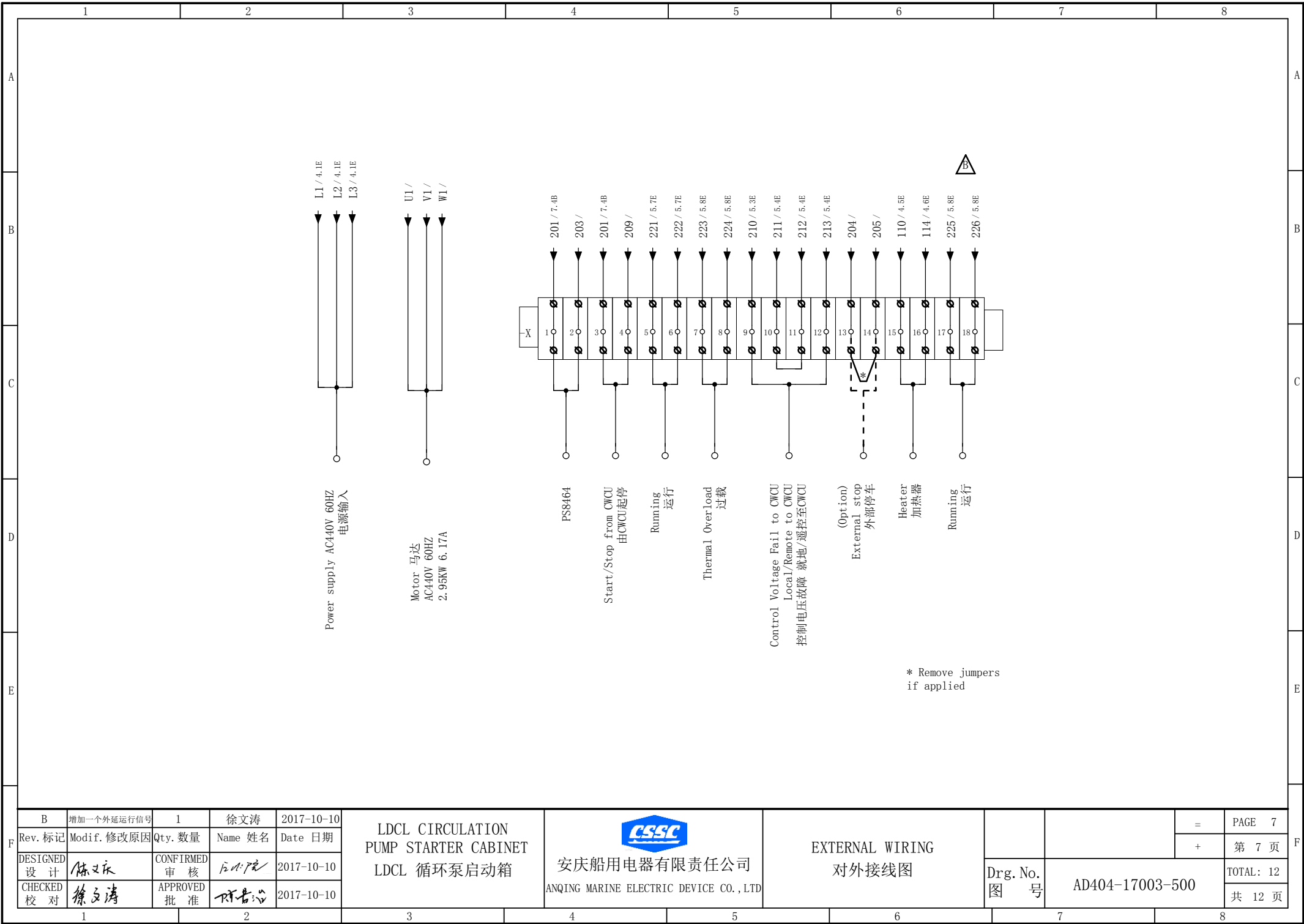
Designed 设 计	陈文涛	2018-06-19	C	按照船厂要求 更改热继电器设定值	4	汪志远	2018-6-19
Checked 校 对	徐文涛	2018-06-19	B	增加一个外延运行信号	5、7	徐文涛	2017-10-10
Confirmed 审 核	陈文涛	2018-06-19	A	增加安装脚尺寸、 产品重量参数	3	陈文涛	2017-06-21
Approved 批 准	陈文涛	2018-06-19	ReV. 标记	Modif. 修改原因	PAGE 页码	Name 姓 名	Date 日期
Drg. No. 图 号	AD404-17003						
					Page: 1 第 1 页	Total: 12 共 12 页	

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NO. 序号		DRG. 图 号				NAME 名 称				PAGE 页 码				REMARK 备 注	
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	2	AD404-17003-100				CONTENTS 目录				2					
	3	AD404-17003-200				OUTLINE 外形图				3					
B	4	AD404-17003-300				PRINCIPLE DIAGRAM 原理图				4					
	5	AD404-17003-301				PRINCIPLE DIAGRAM 原理图				5					
	6	AD404-17003-400				INTERNAL LAYOUT 内部布置图				6					
	7	AD404-17003-500				EXTERNAL WIRING 对外接线图				7					
C	8	AD404-17003-600				CHINESE ELEMENTS LIST 中文元件清单				8					
	9	AD404-17003-601				CHINESE ELEMENTS LIST 2 中文元件清单 2				9					
	10	AD404-17003-602				ENGLISH ELEMENTS LIST 英文元件清单				10					
	11	AD404-17003-603				ENGLISH ELEMENTS LIST 2 英文元件清单 2				11					
D	12	AD404-17003-700				SPARE PARTS LIST 备件清单				12					
E															
F						LDCL CIRCULATION PUMP STARTER CABINET LDCL 循环泵启动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO.,LTD		CONTENTS 目录				=	PAGE 2
	Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期									+	第 2 页
	DESIGNED 设计	陈文庆	CONFIRMED 审核	陈文庆	2017-03-11							Drg. No. 图 号	AD404-17003-100	TOTAL: 12	
	CHECKED 校对	徐文涛	APPROVED 批准	陈文庆	2017-03-11									共 12 页	
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B	增加一个外延运行信号	1	徐文涛	2017-10-10
Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期
DESIGNED 设计	陈文涛	CONFIRMED 审核	陈文涛	2017-10-10
CHECKED 校对	徐文涛	APPROVED 批准	陈文涛	2017-10-10

LDCL CIRCULATION
PUMP STARTER CABINET
LDCL 循环泵启动箱



EXTERNAL WIRING
对外接线图

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		+	第 7 页
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序号		代号		名称		型 号 规 格		技术参数		备 注		数 量		制 造 商	
31		X-3		挡板		D-UK2. 5						1		菲尼克斯	

1		2		3		4		5		6		7		8							
NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK		QTY.	MANUFACTURER										
A	1	FR1	THERMAL RELAY		LRD14C		7-10A		For LC1 D09`D38 CONTACTOR		1	Schneider									
	2	H1	INDICATING LAMP		XB2BVB1LC				AC/DC24V WH		1	Schneider									
	3	H2	INDICATING LAMP		XB2BVB6LC				AC/DC24V BLU		1	Schneider									
	4	H3	INDICATING LAMP		XB2BVB3LC		GRN		AC/DC24V GRN		1	Schneider									
B	5	H4	INDICATING LAMP		XB2BVB3LC		GRN		AC/DC24V GRN		1	Schneider									
	6	H5	INDICATING LAMP		XB2BVB4LC		RED		AC/DC24V RED		1	Schneider									
	7	KA2	RELAY		RXM 4AB2P7		AC230V 50HZ				1	Schneider									
	8	KA2-KA6-1	RELAY SOCKET (2/4 Contact)		RXZE2M114						5	Schneider									
C	9	KA2-KA6-2	CLAMP		RXZ400						5	Schneider									
	10	KA3	RELAY		RXM 4AB2BD		DC24V				1	Schneider									
	11	KA4	RELAY		RXM 4AB2BD		DC24V				1	Schneider									
	12	KA5	RELAY		RXM 4AB2BD		DC24V				1	Schneider									
D	13	KA6	RELAY		RXM 4AB2BD		DC24V				1	Schneider									
	14	KM1	CONTACTOR		LC1D09M7C		9A		AC24 50/60Hz		1	Schneider									
	15	KM1-1	AUX. CONTACT BLOCK		LADN31C				3NO+1NC		1	Schneider									
	16	P1	AMMETER AC		F72-AC AC 0-15A-90A				CL. 1.5 50/60HZ		1	CCS SHANGHAI YITAI I&M Ltd									
E	17	P1-1	PROTECT COVER		F96				For F96		1	CCS SHANGHAI YITAI I&M Ltd									
	18	P2	TIME COUNTER		F48-HC(直流24V)				DC24V IP44		1	CCS SHANGHAI YITAI I&M Ltd									
	19	QF2	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB									
	20	QF3	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB									
F	21	QF4	MINITYPE BREAKER		S202-K4		4A		2P 4A		1	ABB									
	22	QF5	MINITYPE BREAKER		S202-K2		2A		2P 2A		1	ABB									
	23	QS	DISCONNECT SWITCH		P1-25/I2/SVB		25 A;63 A				1	Moeller									
	24	SA1	SELECT SWITCH		XB2BD33C				2NO BLK		1	Schneider									
G	25	SA1-1	CONTACT ELEMENT		ZB2BE101C				1NO		1	Schneider									
	26	SB2	button		XB2BA31C				GN, 1NO		1	Schneider									
	27	T1	VOLTAGE TRANSFORMER		JBK3-160TH 26V		160VA				1	CCS SHANGHAI REDFLAG M/T EEf.,									
	28	V1	single-phase bridge rectifier		KBPC QL 20A-02		output 5A				1	shsz									
29		X-1	LABEL		ZB6						2	PHOENIX CONTACT									
Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		LDCL CIRCULATION PUMP STARTER CABINET LDCL 循环泵启动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD		ENGLISH ELEMENTS LIST 英文元件清单		Drg. No. 图 号		AD404-17003-602		= PAGE 10 + 第 10 页 TOTAL: 12 共 12 页	
DESIGNED 设计		陈文庆		CONFIRMED 审核		陈文庆		2017-03-11													
CHECKED 校对		陈文庆		APPROVED 批准		陈文庆		2017-03-11													
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A	NO.	MARK	NAME		DESCRIPTION AND SPECIFICATION		TECHNICAL PARAMETER		REMARK			QTY.	MANUFACTURER		
	30	X-2	END STATOR		E-UK							10	PHOENIX CONTACT		
	31	X-3	SIDE SUPPORT		D-UK2. 5							1	PHOENIX CONTACT		
B															
C															
D															
E															
F						LDCL CIRCULATION PUMP STARTER CABINET LDCL 循环泵启动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO.,LTD		ENGLISH ELEMENTS LIST 2 英文元件清单 2				= +	PAGE 11 第 11 页
	Rev. 标记	Modif. 修改原因	Qty. 数量	Name 姓名	Date 日期										
	DESIGNED 设计	陈文庆	CONFIRMED 审核	陈文庆	2017-03-11										TOTAL: 12
	CHECKED 校对	徐文涛	APPROVED 批准	陈文庆	2017-03-11							Drg. No. 图 号	AD404-17003-603		共 12 页
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A	NO. 序号	NAME 名称		DESCRIPTION AND SPECIFICATION 型号规格		OUTLINE 外形		QTY. 数量	REMARK 备注		MANUFACTURER 生产厂家													
	1	INDICATING LAMP 指示灯		XB2BVB1LC				1	AC/DC24V White AC/DC24V 白色		Schneider 施耐德													
	2	INDICATING LAMP 指示灯		XB2BVB4LC				1	AC/DC24V White AC/DC24V 红色		Schneider 施耐德													
B	3	INDICATING LAMP 指示灯		XB2BVB3LC				1	AC/DC24V GRN AC/DC24V 绿色		Schneider 施耐德													
	4	INDICATING LAMP 指示灯		XB2BVB6LC				1	AC/DC24V BLU AC/DC24V 蓝色		Schneider 施耐德													
	5	RELAY 中间继电器（4触点）		RXM 4AB2P7				1			Schneider 施耐德													
C	6	RELAY SOCKET（2/4 Contact） 中间继电器基座（2/4触点）		RXZE2M114				5			Schneider 施耐德													
	7	RELAY 中间继电器		RXM 4AB2B7				1			Schneider 施耐德													
	8	SELECT SWITCH 三位选择开关		XB2BD33C				1	2NO BLK 2NO 黑色		Schneider 施耐德													
D	9	CONTACT ELEMENT 一常开按钮本体		ZB2BE101C				1	1NO 1NO		Schneider 施耐德													
	10	INDICATING LAMP 平头按钮		XB2BA31C				1	1NO Green 1NO 绿色		Schneider 施耐德													
E																								
F	Rev. 标记		Modif. 修改原因		Qty. 数量		Name 姓名		Date 日期		LDCL CIRCULATION PUMP STARTER CABINET LDCL 循环泵启动箱		 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD		SPARE PARTS LIST 备件清单						=		PAGE 12	
	DESIGNED 设计		陈文庆		CONFIRMED 审核		陈文庆		2017-03-11												+		第 12 页	
	CHECKED 校对		徐文涛		APPROVED 批准		陈文庆		2017-03-11										Drg. No. 图 号		AD404-17003-700		TOTAL: 12	
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