

FlexiROC

Diagrams and Drawings

FlexiROC / D65 -10LF



XXXXXXXXXX XX



Tier 3 | No. 8992 0113 35
Rev. 001 |



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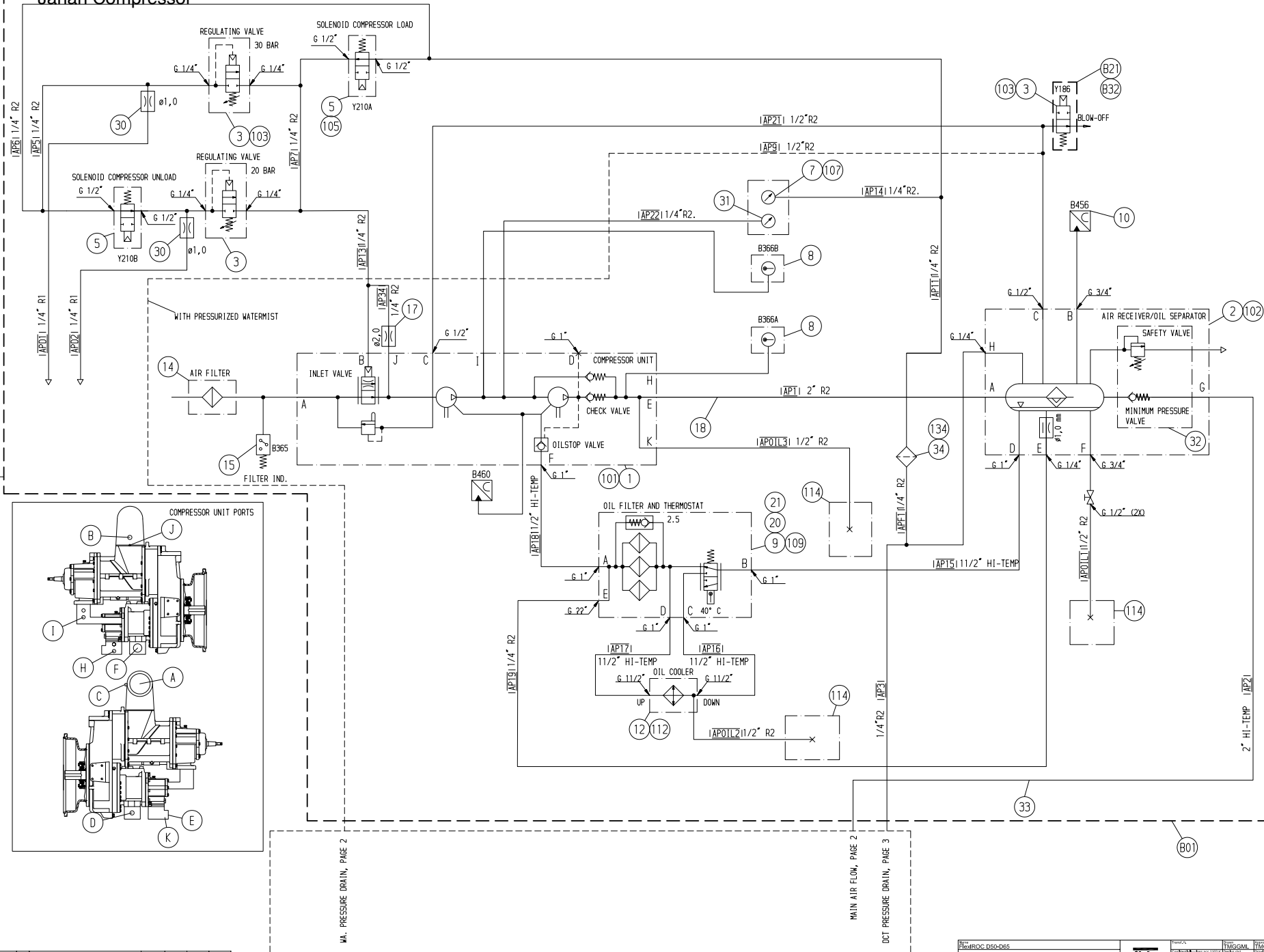
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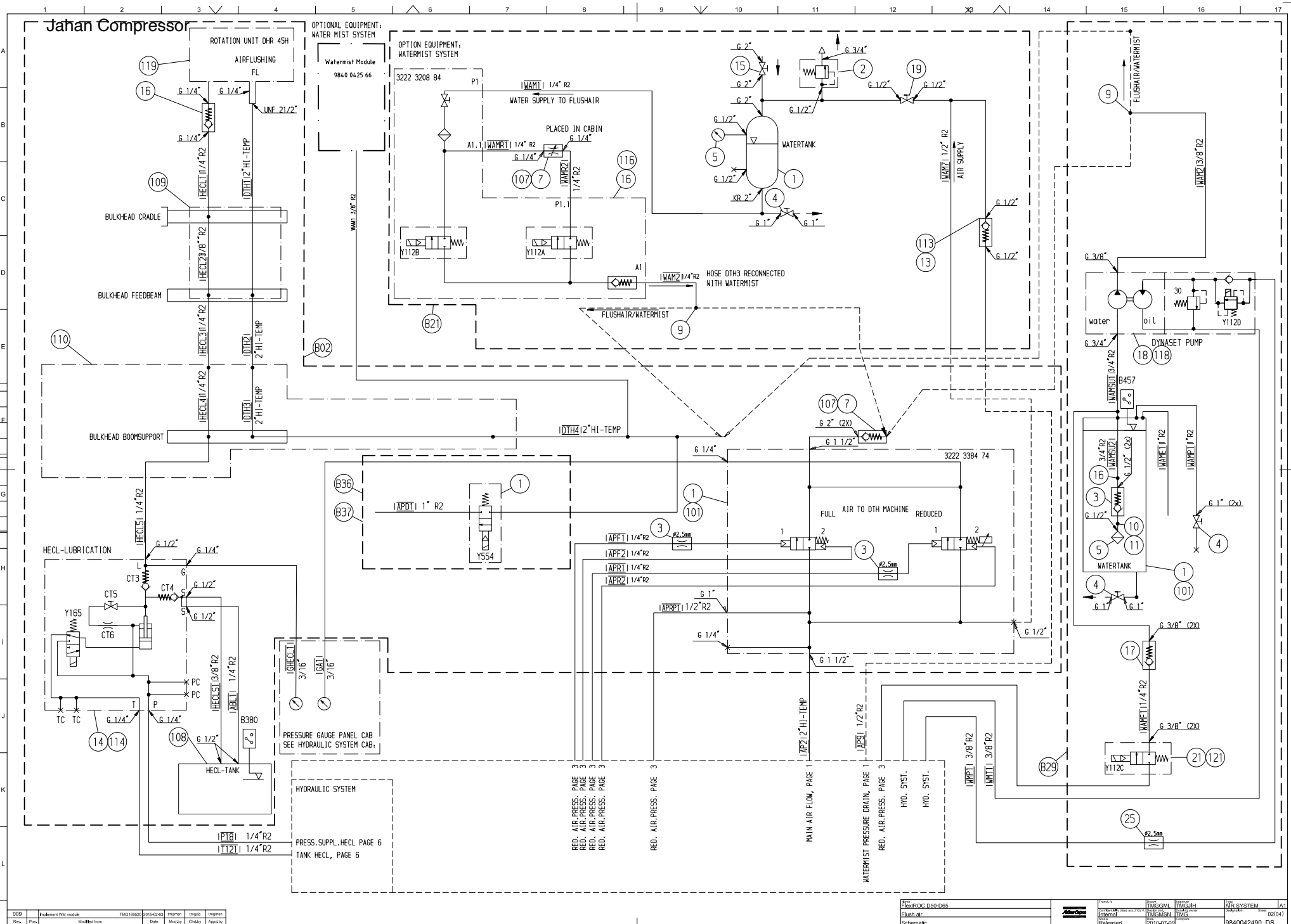
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Pneumatic Diagram
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9840042490	AIR SCHEDULE	AIR/WATER SYSTEM	6 - 9

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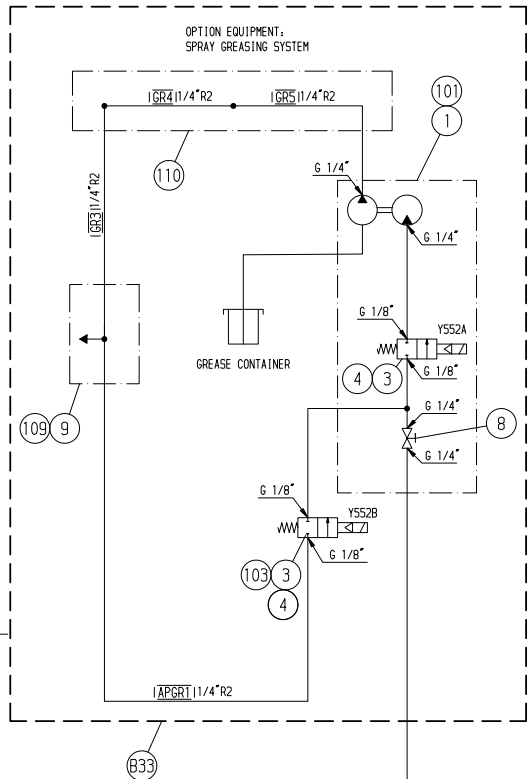


AutocAD 2010
The following is a schematic diagram and not a wiring diagram.
Consult the following pages for more information.

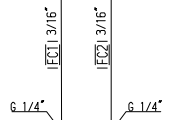
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DCT UNIT

OPTION EQUIPMENT:
SPRAY GREASING SYSTEM



FAN OUTLET



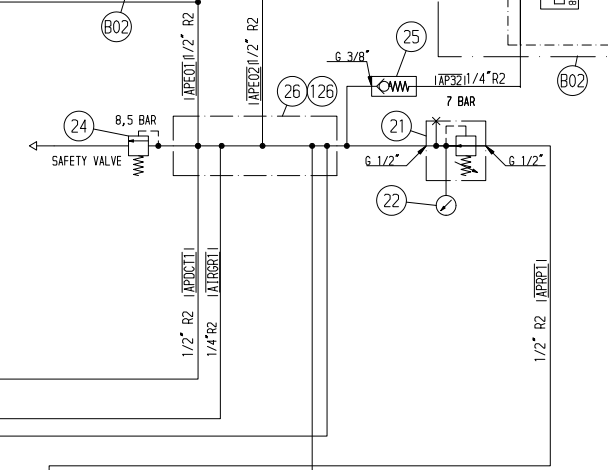
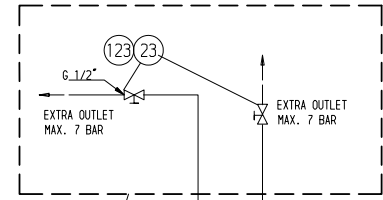
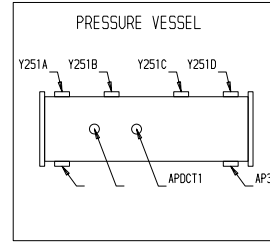
Y251A

Y251B

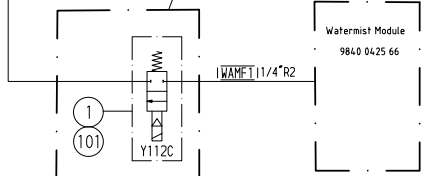
Y251C

Y251D

PRESSURE VESSEL



OPTIONAL EQUIPMENT:
WATER MIST SYSTEM

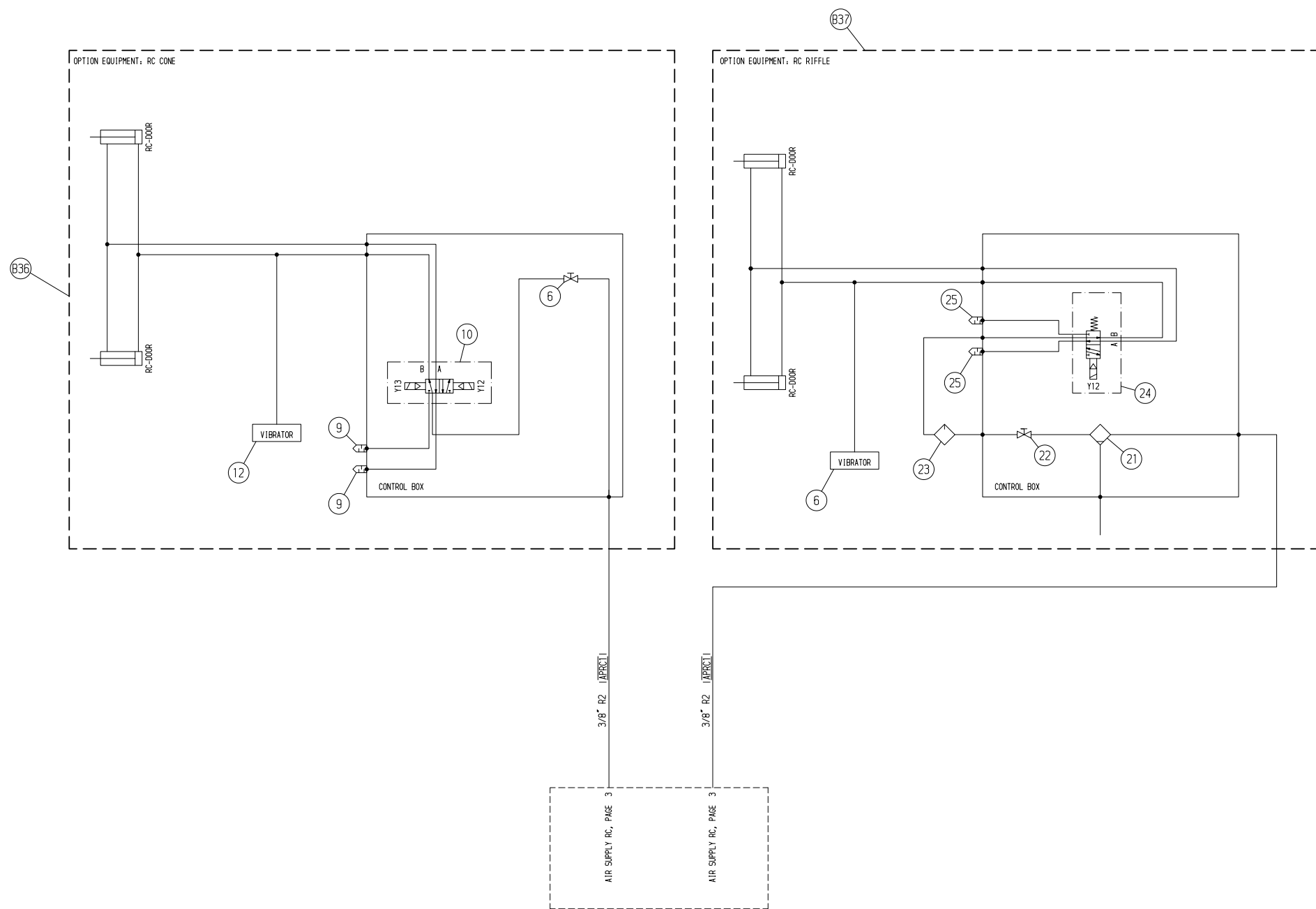


Rev.	Proj.	Equipment	Mod.	Ref.	Date	Mod.	Chg.	Agency
000		Equipment	Mod.	Mod.	1999/01/01	2015/02/01		

Part FlexROC D50-D65		Trans. V.	Drawn TMGGML	Approved TMGGJH	Type AIR SYSTEM	A1
QCT		Contract No. 132A	Issue No. TMGMSN	Issue Date TMG	Sheet 03(04)	
Schematic		Issue Released	Date 2010-07-09	Compare	9840042490_DS	

AutoCAD 2010

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Doc	Rev	Proj	Equipment	Mod	Item	Rev	Date	Mod	Proj	Agency
009			Equipment	Mod	Item	Rev	Date	Mod	Proj	Agency

Rev	Rev	Rev	Rev	Rev	Rev
009	009	009	009	009	009
Rev	Rev	Rev	Rev	Rev	Rev
009	009	009	009	009	009
Rev	Rev	Rev	Rev	Rev	Rev
009	009	009	009	009	009

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Electrical Diagram
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Part no	Description	Remarks	Page
9840042588	EL.CIRC.DIAGRAM	CABIN ELECTRICAL SYSTEM	12 - 28
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9840042653	CIRCUIT DIAGRAM	ELECTRICAL SYSTEM	39 - 84

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AutoCAD 2010

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FlexiROC Lmk2

9-4-2013 INDEX A : diagram created

10-4-2014 INDEX B : Sheet 12 New wire KC51/37 - KC54X2/15

Sheet 12 New wire KC51/38 - KC54X2/16

Sheet 4 + 8 Wire removed X50.5/2 - S139/15

Sheet 8 New wire KC51/35 - S139/15

Sheet 4+8 New wire KC51/36 - X50.5/2

Sheet 8 X132/1 removed

Sheet 15 Display D510 renamed to D501

14-9-2015 INDEX C

Sheet 2 New powerboard

Sheet 5 J28/2 + S2 removed - F28 moved to sheet 7

Sheet 7 J24/2 removed and wire 154 from XR1/4 moved to splice J32/2

Sheet 7 Remote bench wires added.

A

B

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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Change
Index
description

Project:
654.725-726-727_C

Drawing no.:
9840 0425 88

Init.:
HBA

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Sheet:
1

Date:
14-9-2015

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17

Next sheet:
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Name							Transf. fr.		Drawn	Approver	Type	Sheet
FlexiROC Large Tier 3 and Tier 4/ L8 (30)									tmgmiin	tmgmiin	Electrical system	
003		Update cabin harness with BR option	TMG1505004	2015-09-30	tmgxufl	tmgxufl	tmgcm		Design chd.	tmgmbe	Drawing owner	01(17)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by			Status	Date	Compare	
									Released	2013-07-12		9840042588_DS

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Status
Released

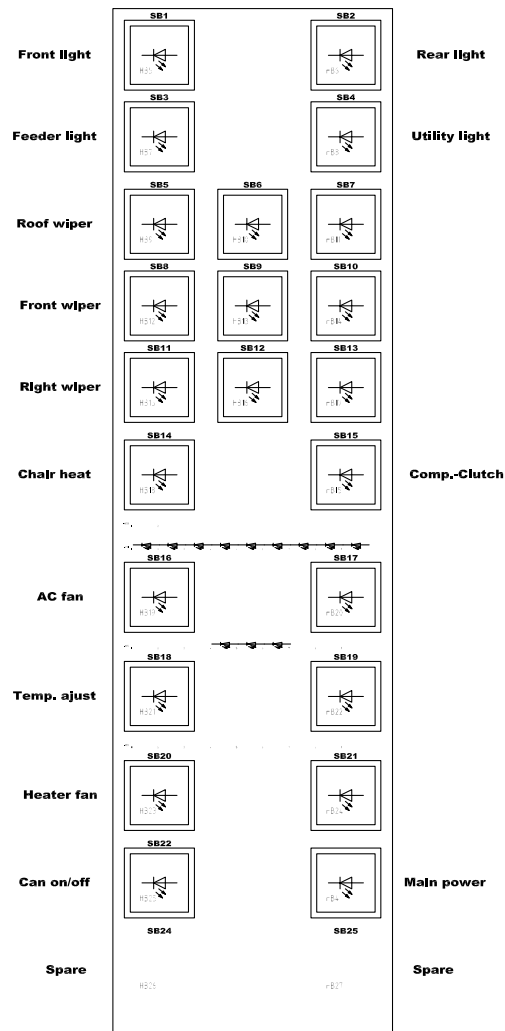
Design chd.
tmgmbe
Date
2013-07-12

Approver
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Drawing owner
TMG
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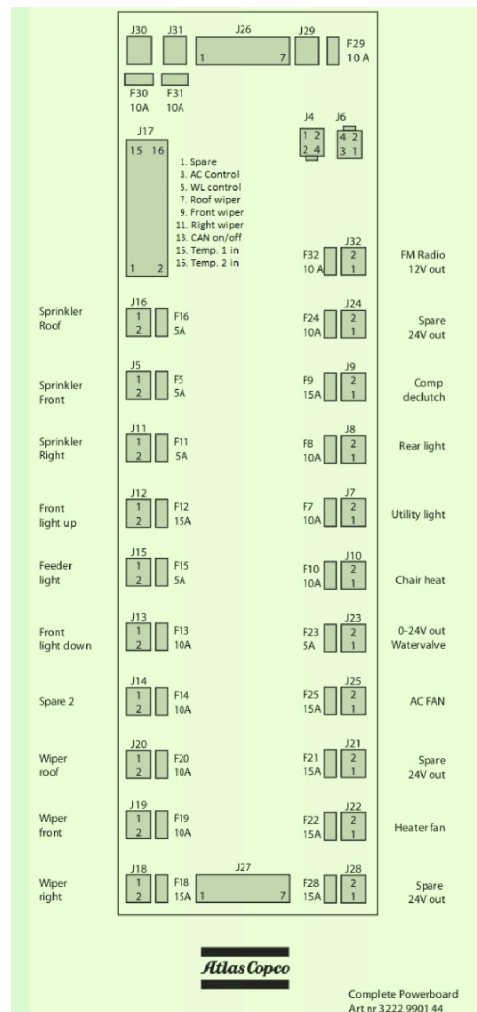
Type
Electrical system
Designation
9840042588_DS

A3

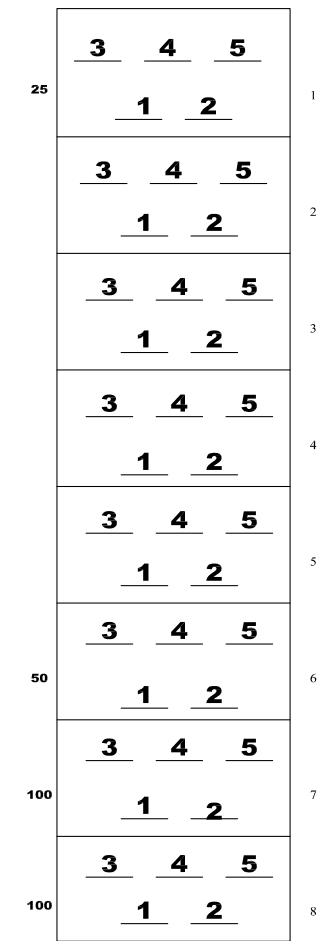
Touch panel Looking from top



Power board Looking from top



X50 looking from left



Circuit Diagram
Lmk2 BSI cabin nr.653,916-917-918
9840 0425 88

Power board
Touch panel - X50
Layout

Project:	654,725-726-727_C	Drawing no:	9840 0425 88	Init.:	HBA	Rev.:	C	Sheet:	2
Date:	14-9-2015	Function:	=	Location:	+	Total sheets:	17	Next sheet:	3

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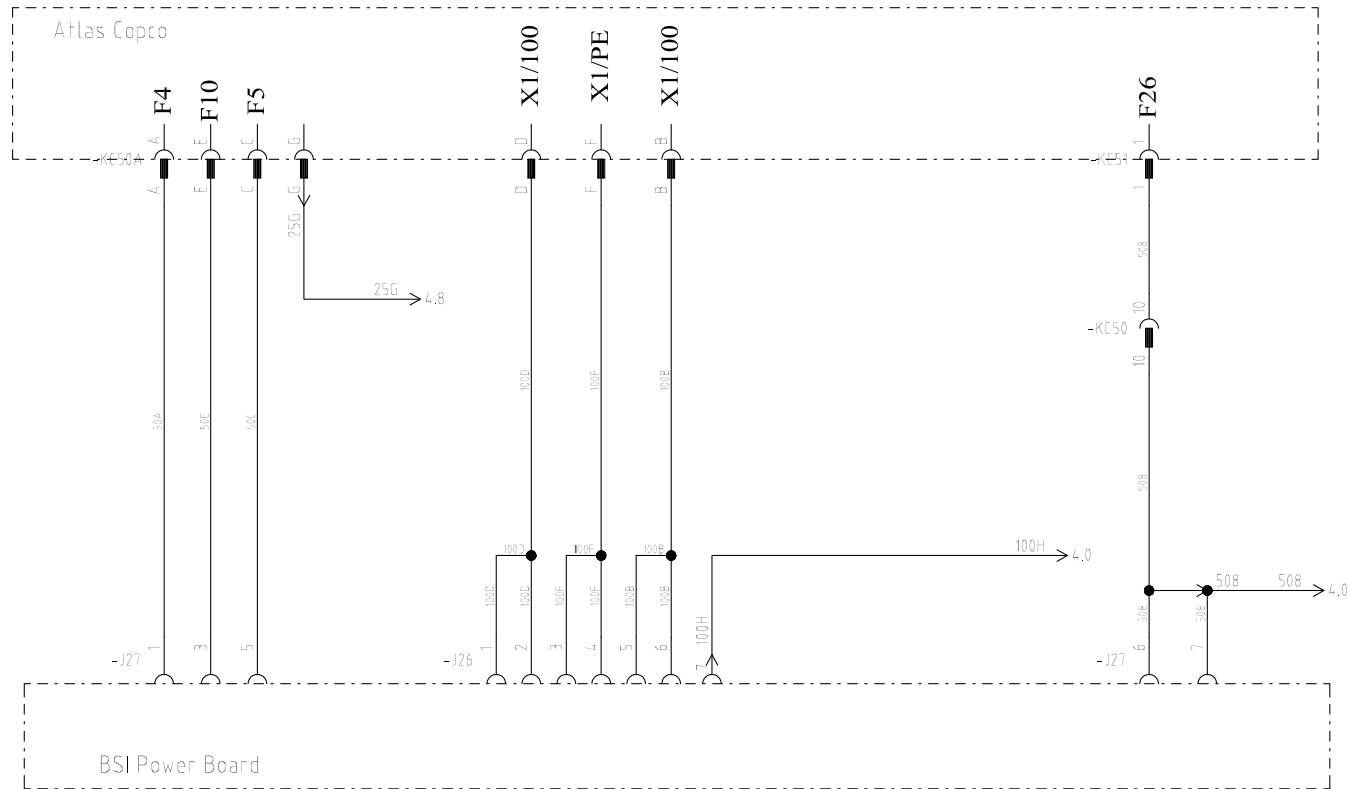
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AutoCAD 2010

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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

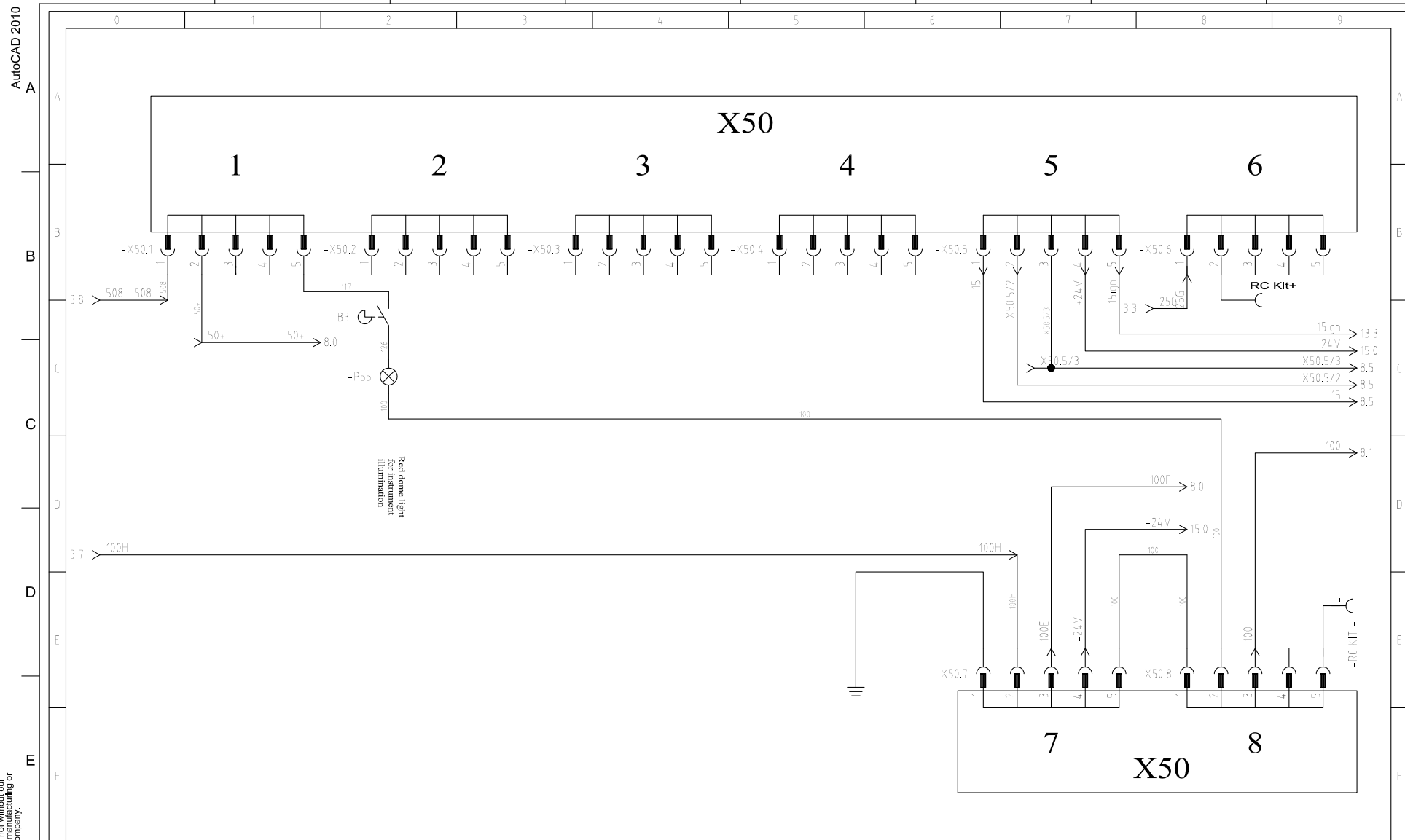
Power
connection

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Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Circuit diagram	Internal	Design chd.	tmgmbe	Drawing owner	TMG	Designation	Sheet
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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

X50
connection

Project:	Drawing no.:	Init.:	Rev.:	Sheet:
694.725-726-727_C	9840 0425 88	HBA	C	4
Date:	Function:	Location:	Total sheets:	Next sheet:
14-9-2015	=	+	17	5

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003		Update cabln harness with BR option	TMG1505004	2015-09-30	tmguxfl	tmguxfl	tmgcrn	Confidentiality class acc,1102 K			Design chd. tmgmbe	Drawing owner TMG	Designation	Sheet	04(17)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Internal			Date 2013-07-12	Compare	9840042588 DS		
Circuit diagram											Released				
Cabin															

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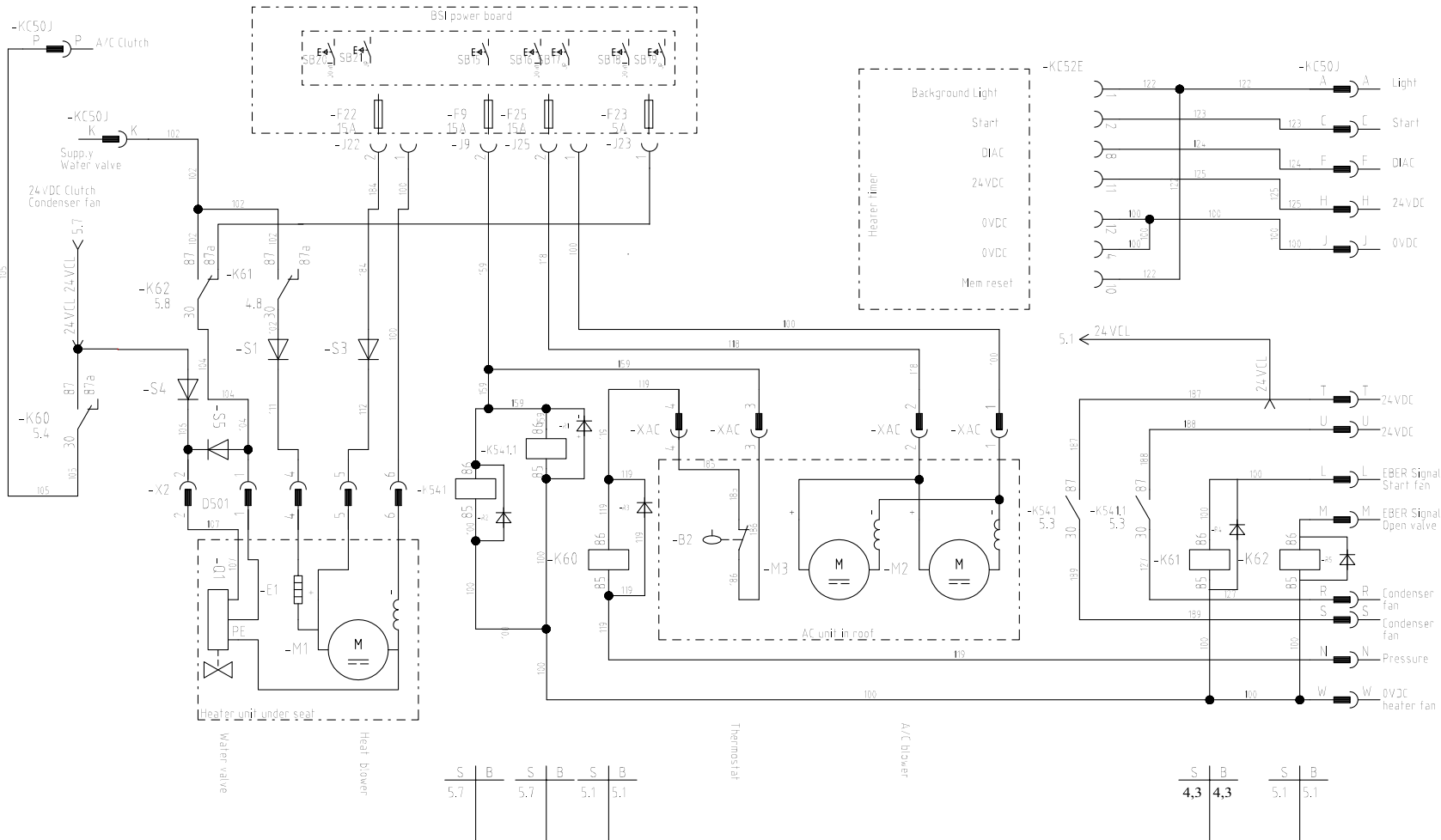
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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

AC system and heater
connection

Project:	Drawing no:	Init.:	Rev.:	Sheet:
654.725-726-727_C	9840 0425 88	HBA	C	5
Date:	Function:	Location:	Total sheets:	Next sheet:
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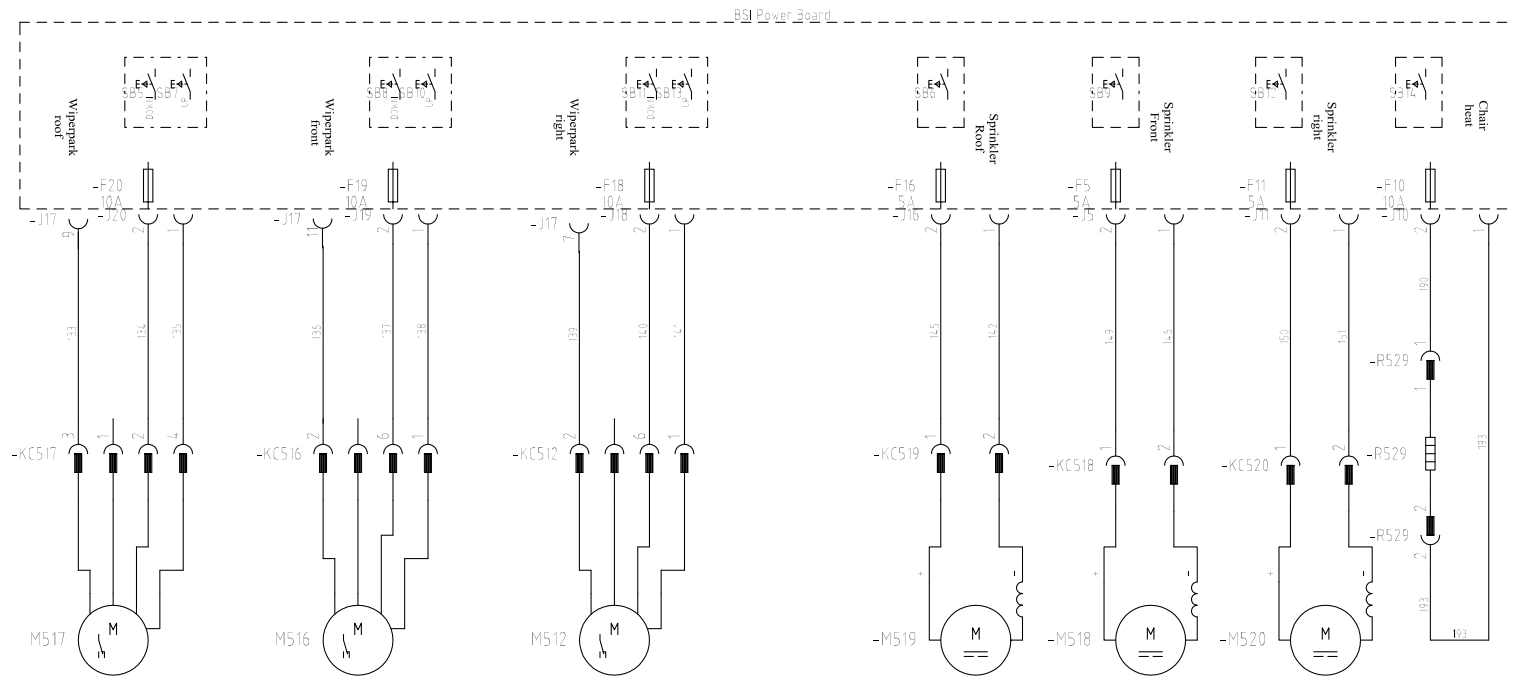
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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Wiper
Sprinkler and chair heat
connection

Project:
654.725-726-727_C

Drawing no.:
9840 0425 88

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Circuit diagram							Internal		Design chd.		Drawing owner		06(17)	
Cabin							Released		Date		Compare		9840042588_DS	
									2013-07-12					

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Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by

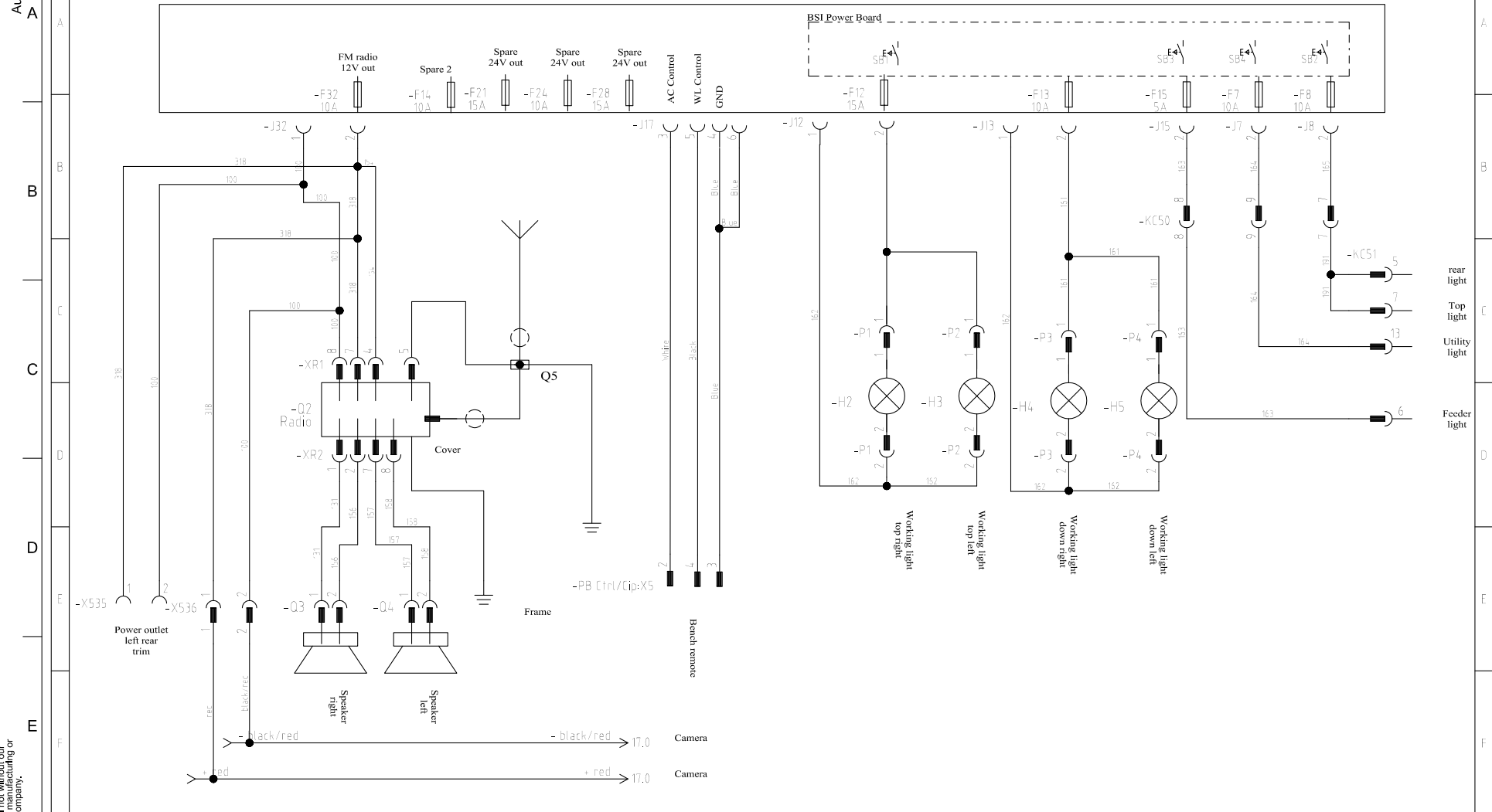
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AutoCAD 2010



Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Radio-WORKING LIGHT
12V out
connection

Project:	Drawing no:	Init:	Rev.:	Sheet:
654.725-726-727_C	9840 0425 88	HBA	C	7
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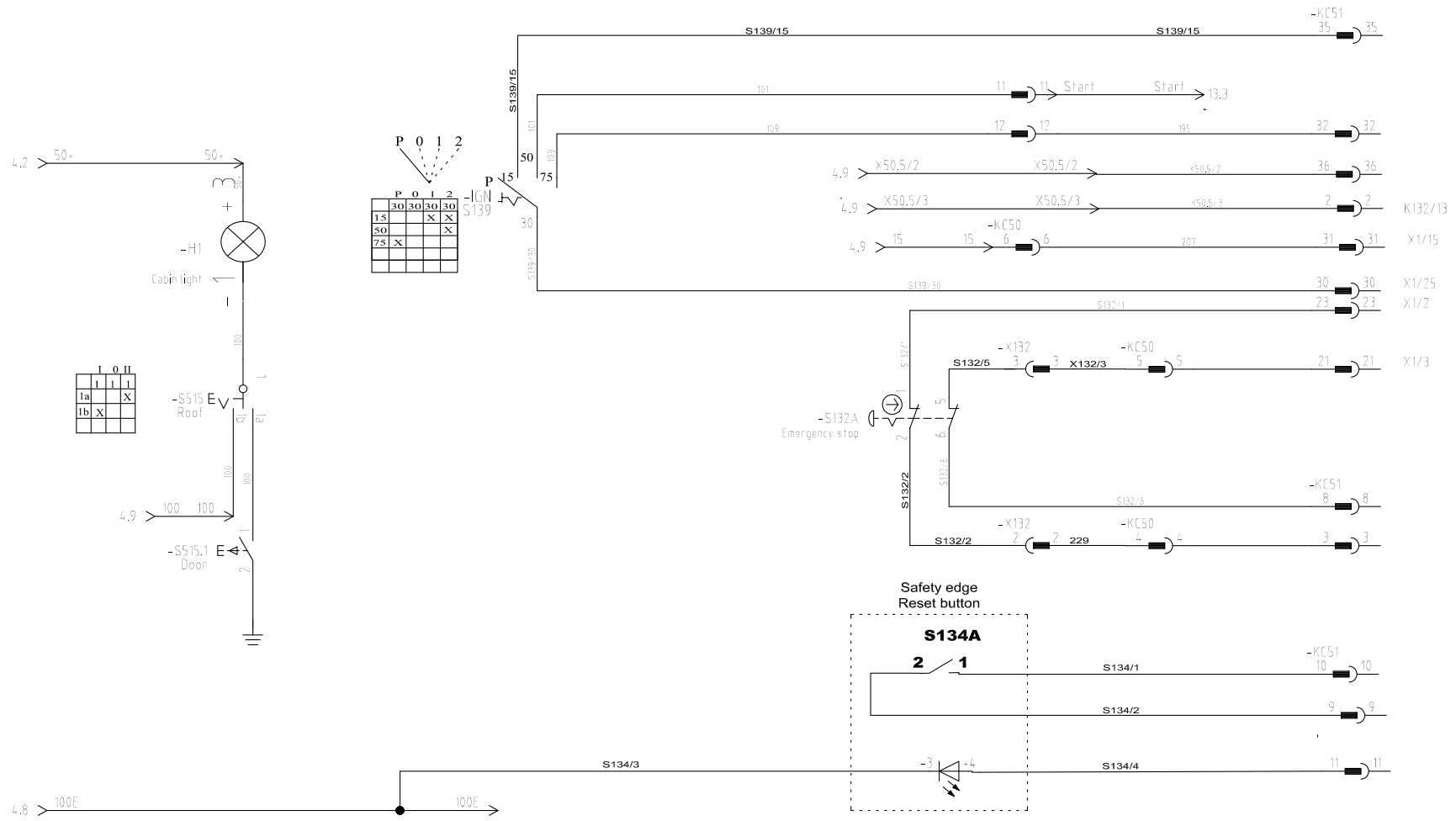
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AutoCAD 2010

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Circuit Diagram
Lmk2 BSI cabin nr.653,916-917-918
9840 0425 88

Cab. light
Ignition-Emergency stop
connection

Project: 654,725-726-727_c	Drawing no: 9840 0425 88	Init.: HBA	Rev.: C	Sheet: 8
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Status Released	Design chd. tmgbe	Drawing owner TMG	Designation Sheet
Date 2013-07-12	Compare		08(17)
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Jahan Compressor

AutoCAD 2010

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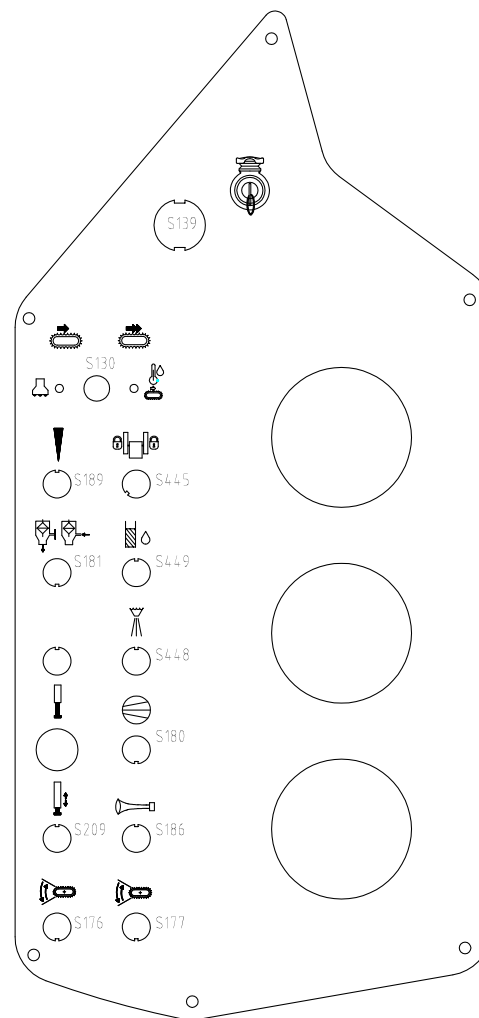
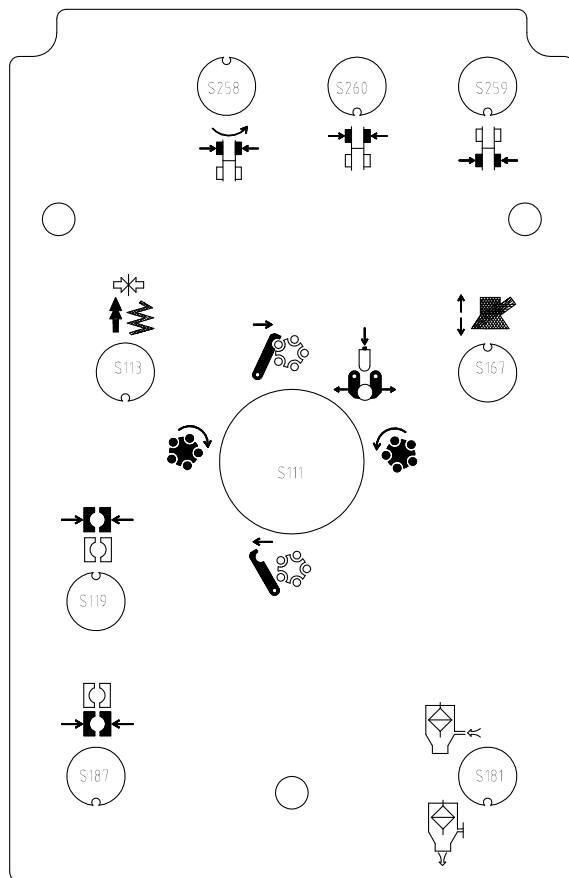
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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Switch
layout

DTH

Project:
654.725-726-727_C

Drawing no.:
9840 0425 88

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Rev.:
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Date:
14-9-2015

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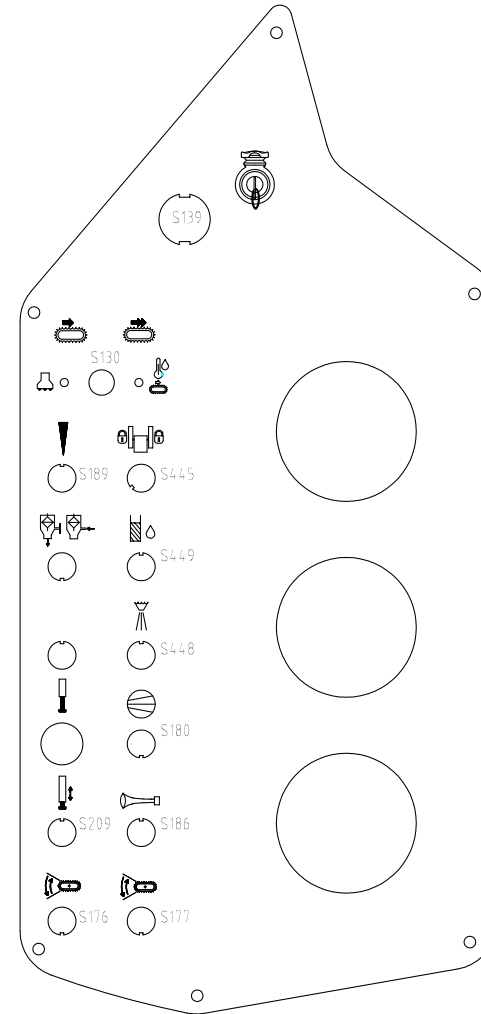
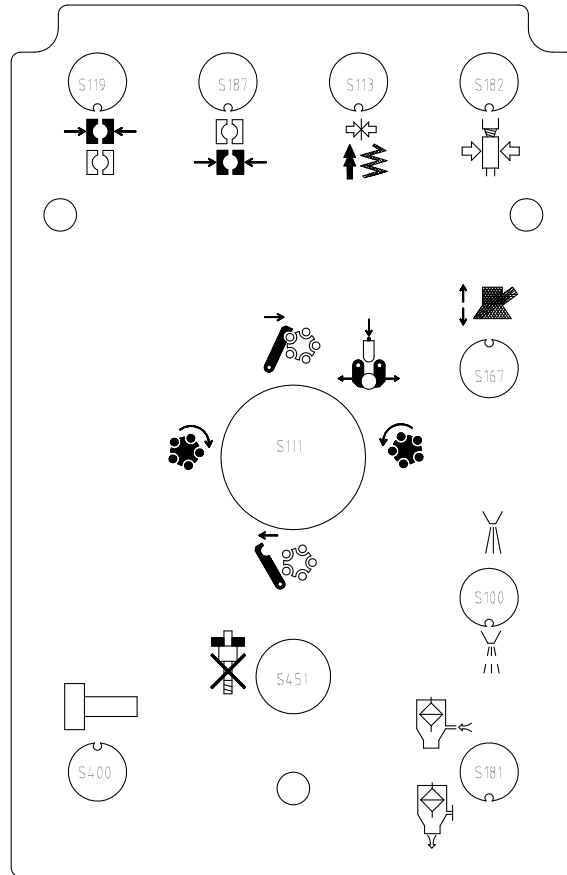
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AutoCAD 2010

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Circuit Diagram
Link2 BSI cabin nr.653.916-917-918
9840 0425 88

Switch
Layout

TH

Project: 694.725-726-727_C	Drawing no.: 9840 0425 88	Init.: HBA	Rev.: c	Sheet: 10
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Circuit diagram							Internal		Design chd. tmgmb		Drawing owner TMG		Sheet	
Cabin							Status		Date		Compare		10(17)	
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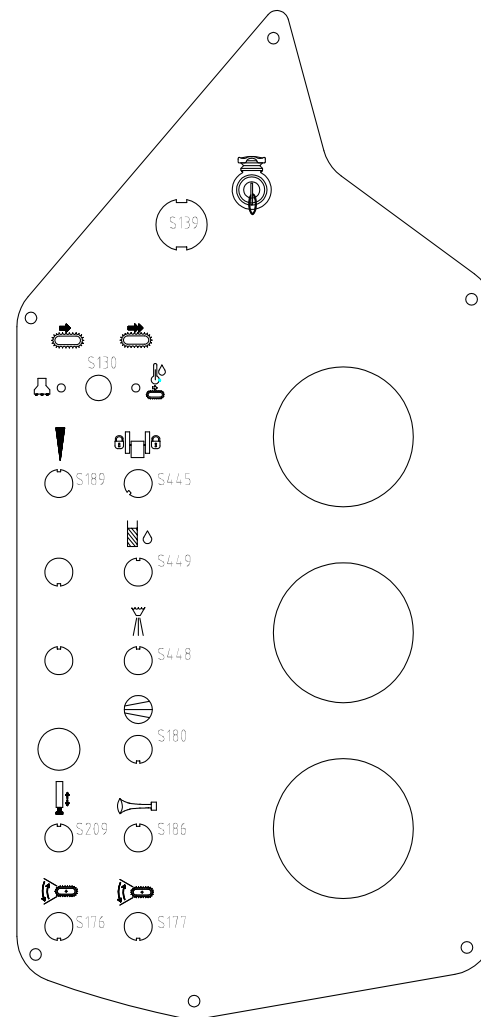
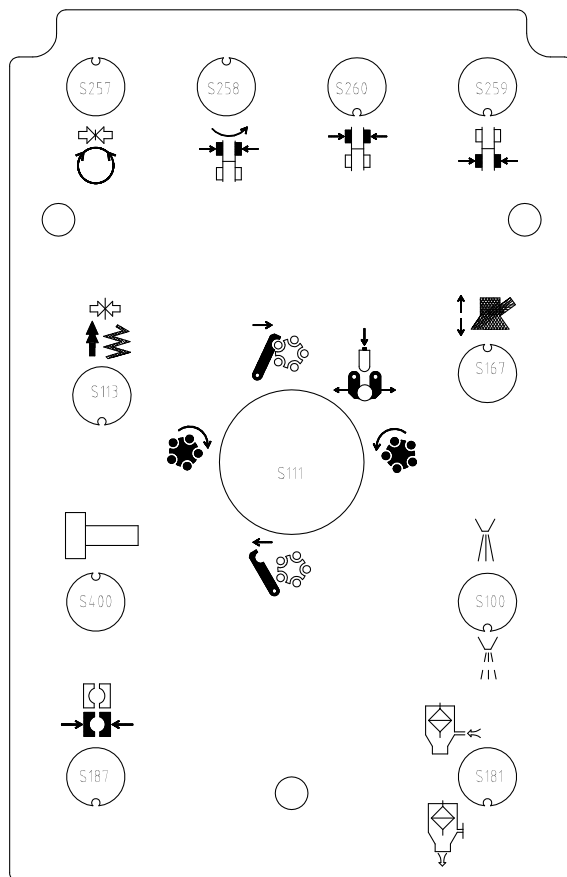
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AutoCAD 2010

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1 2 3 4 5 6 7 8

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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Switch
Layout
CR

Project: 654.725-726-727_C	Drawing no: 9840 0425 88	Init: HBA	Rev: C	Sheet: 11
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Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Cabin		Date	Compare	Designation	Sheet
									2013-07-12		9840042588_DS	

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AutoCAD 2010

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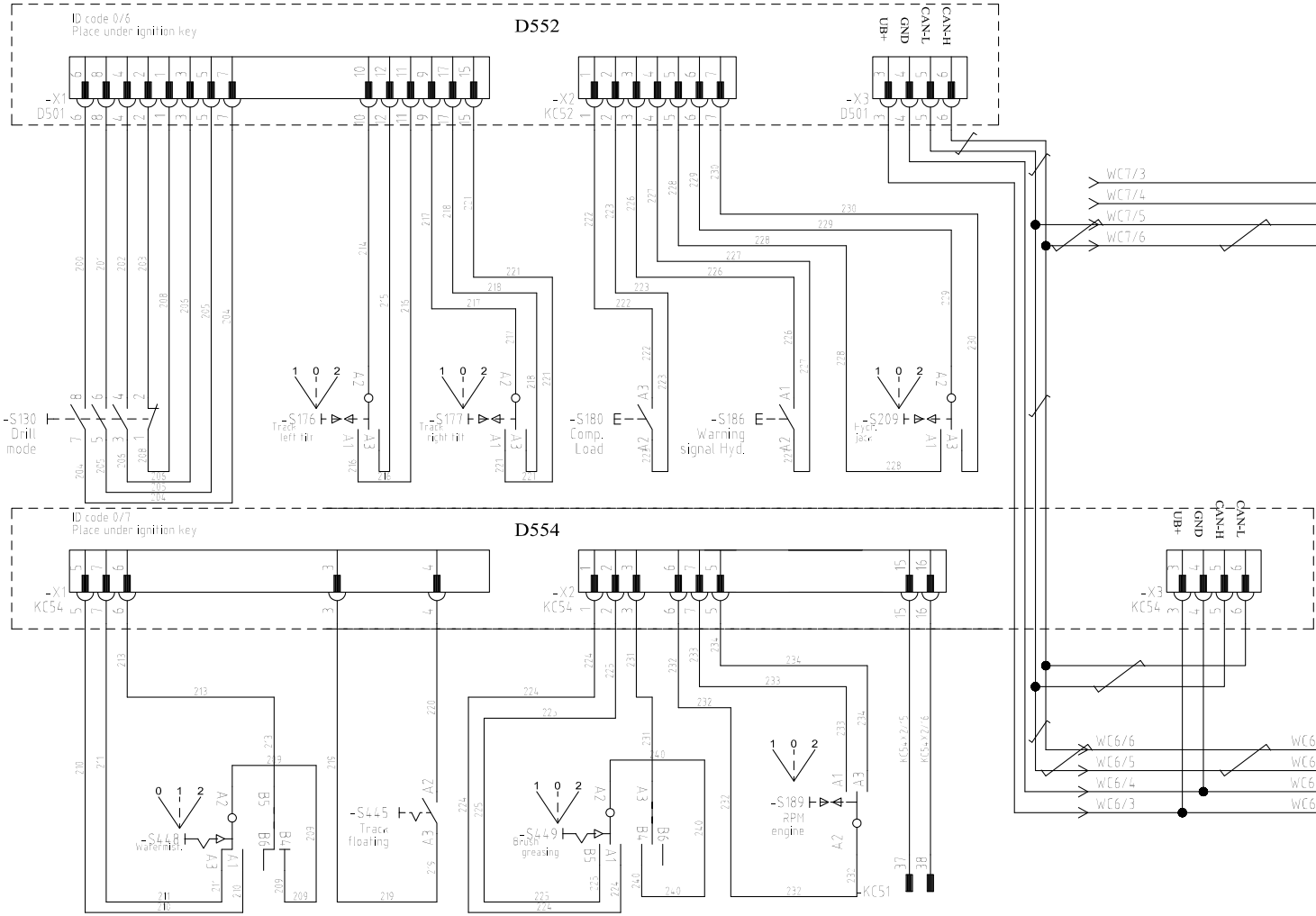
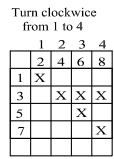
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1 2 3 4 5 6 7 8

0 1 2 3 4 5 6 7 8 9



Circuit Diagram
Lmk2 BSI cabin nr.653,916-917-918
9840 0425 88

Switch
connection

Project: 654.725-726-727_C	Drawing no.: 9840 0425 88	Init.: HBA	Rev.: C	Sheet: 12
Date: 14-9-2015	Function: =	Location: +	Total sheets: 17	Next sheet: 13

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							Circuit diagram	Confidentiality class acc.1102 K Internal	Design chd. tmgmbe	Drawing owner TMG	Designation Sheet
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Confidentiality class acc.1102 K Internal	Drawn tmgmin	Approver tmgmin	Type Electrical system
Status Released	Design chd. tmgmbe	Drawing owner TMG	Designation Sheet
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AutoCAD 2010

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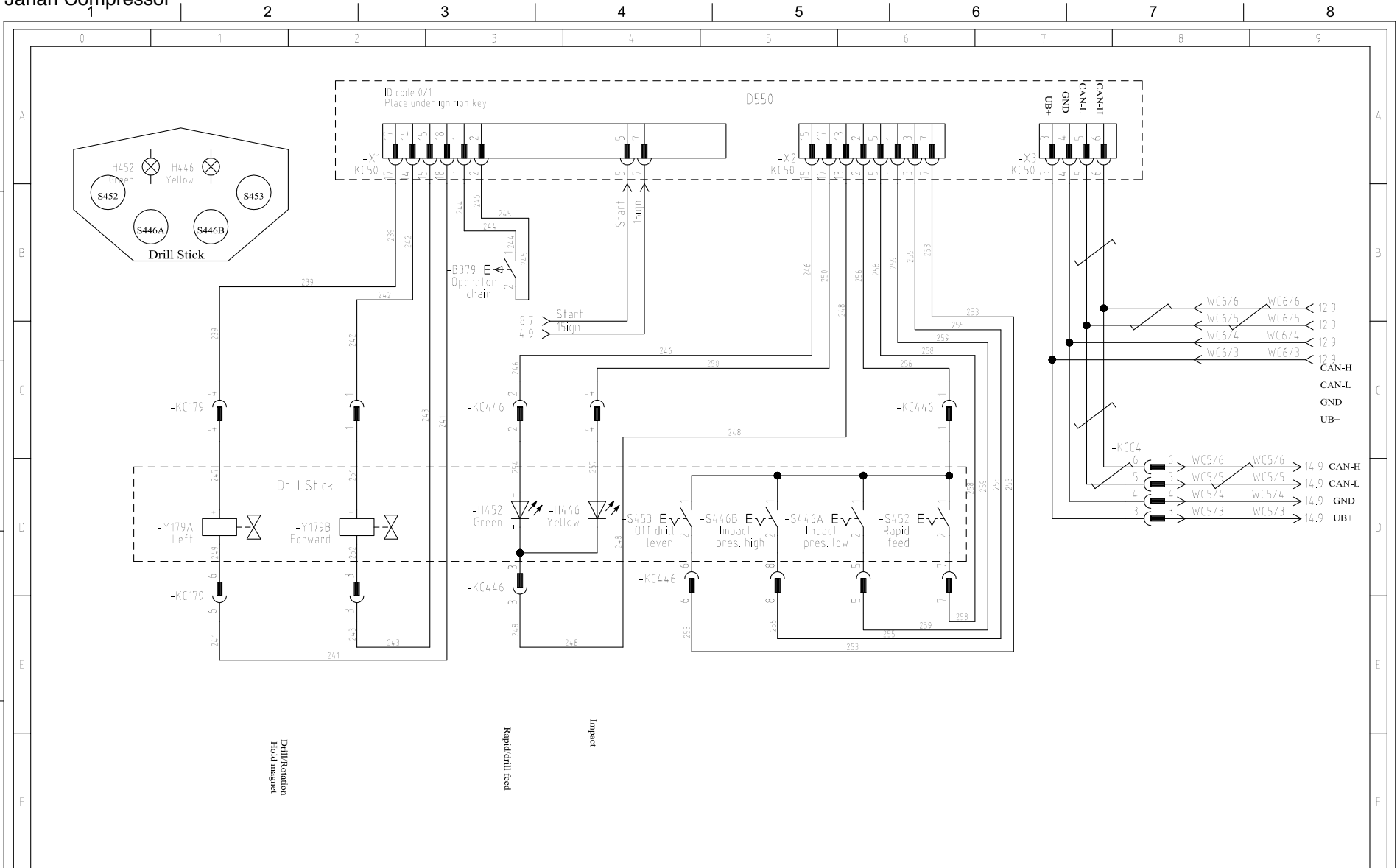
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Circuit Diagram
Lmk2 BSI cabin nr:653.916-917-918
9840 0425 88

Drill Stick
connection

Project: 634.725-726-727_C	Drawing no.: 9840 0425 88	Init.: HBA	Rev.: c	Sheet: 13
Date: 14-9-2015	Function: =	Location: +	Total sheets: 17	Next sheet: 14

Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Name	Transf. fr.	Drawn	Approver	Type
003		Update cabin harness with BR option	TMG1505004	2015-09-30	tmgxl	tmgxl	tmgcm	FlexIROC Large Tier 3 and Tier 4/ L8 (30)	tmgmi	tmgmi	Electrical system
							Circuit diagram	Confidentiality class acc.1102 K Internal	Design chd. tmgmb	Drawing owner TMG	Designation Sheet
							Cabin	Status Released	Date 2013-07-12	Compare	13(17)
											9840042588_DS



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Jahan Compressor

AutoCAD 2010

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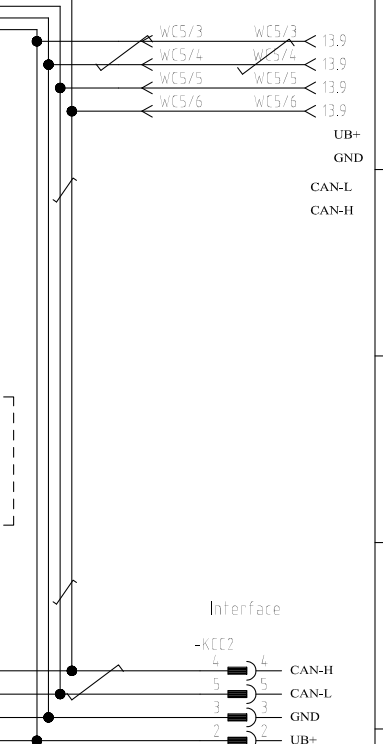
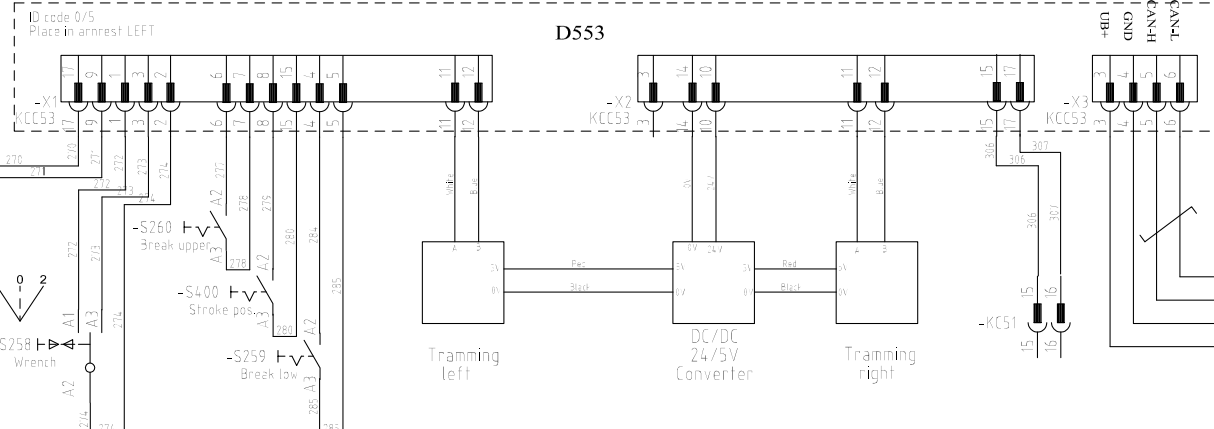
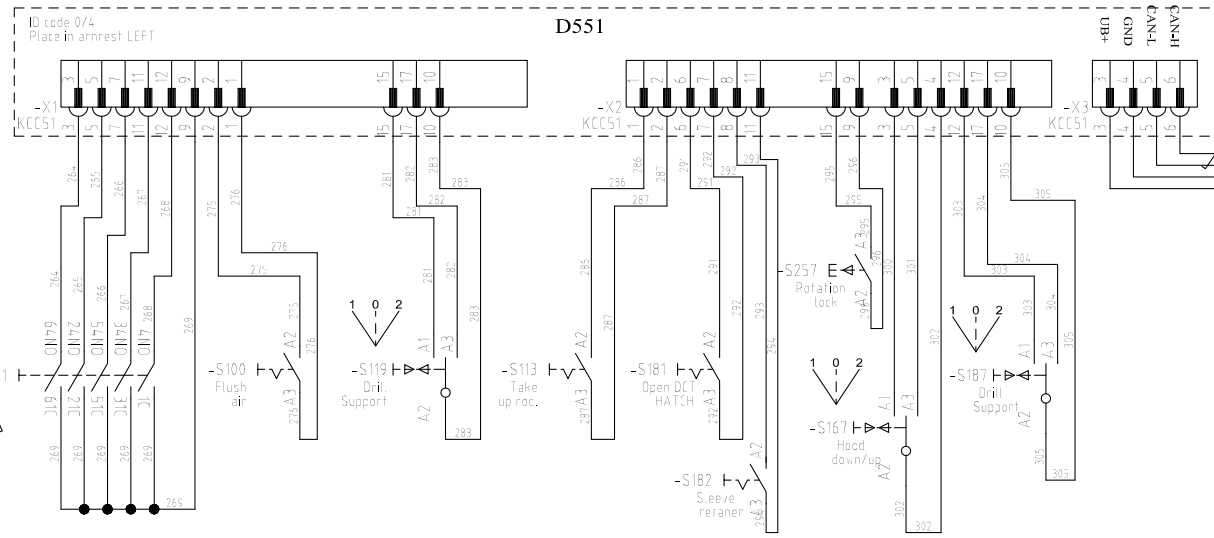
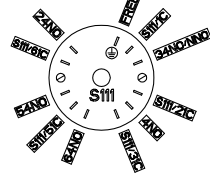
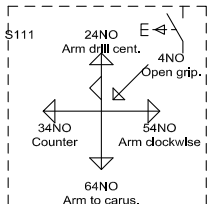
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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

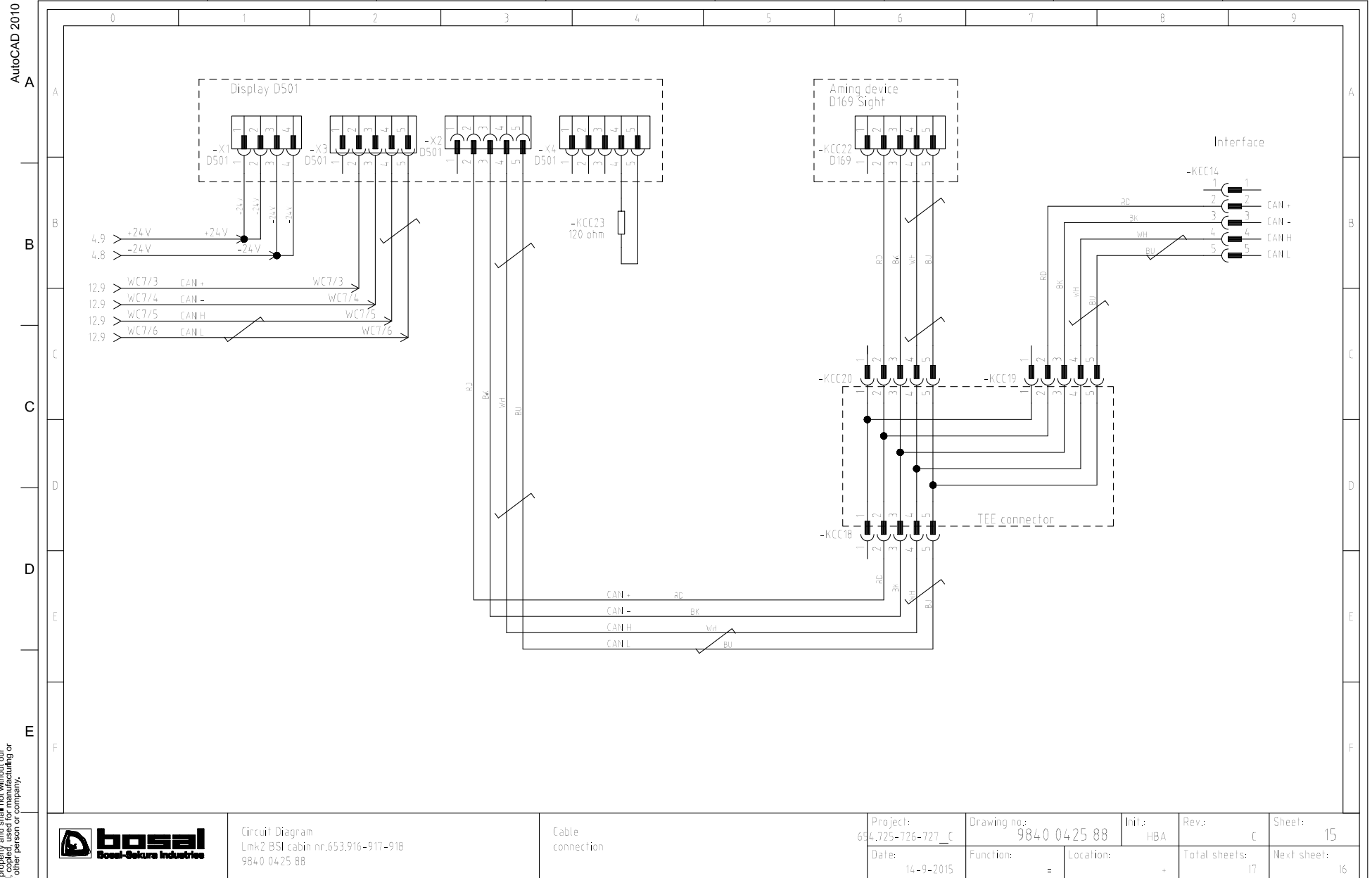
Switch
connection

Project: 654.725-726-727_C	Drawing no.: 9840 0425 88	Init.: HBA	Rev.: C	Sheet: 14
Date: 14-9-2015	Function: =	Location: +	Total sheets: 17	Next sheet: 15

Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Name	Transf. fr.	Drawn	Approver	Type
003		Update cabin harness with BR option	TMG1505004	2015-09-30	tmgxl	tmgxl	tmgcm	FlexIROC Large Tier 3 and Tier 4/ L8 (30)	tmgmi	tmgmi	Electrical system
							Circuit diagram	Confidentiality class acc.1102 K Internal	Design chd. tmgmb	Drawing owner TMG	Sheet 14(17)
							Cabin	Status Released	Date 2013-07-12	Compare	9840042588_DS

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Circuit Diagram
Lmk2 BSI cabin nr.653.916-917-918
9840 0425 88

Cable
connection

Project: 654.725-726-727_C	Drawing no.: 9840 0425 88	Init.: HBA	Rev.: C	Sheet: 15
Date: 14-9-2015	Function: =	Location: +	Total sheets: 17	Next sheet: 16

Name FlexiROC Large Tier 3 and Tier 4/ L8 (30)							Transf. fr.		Drawn tmgmiin	Approver tmgmiin	Type Electrical system	A3
003	Update cabin harness with BR option	TMG1505004	2015-09-30	tmgxufl	tmgxufl	tmgcm	Confidentiality class acc.1102 K Internal		Design chd. tmgmb	Drawing owner TMG	Designation Sheet	15(17)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released		Date 2013-07-12	Compare	9840042588_DS	

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AutoCAD 2010

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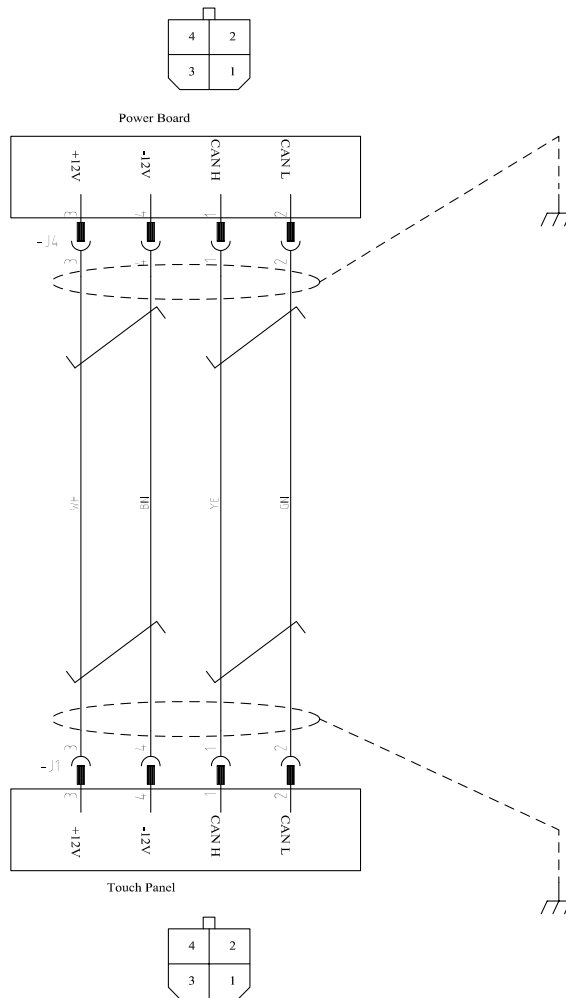
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Circuit Diagram
Lmk2 BSI cabin nr.653,916-917-918
9840 0425 88

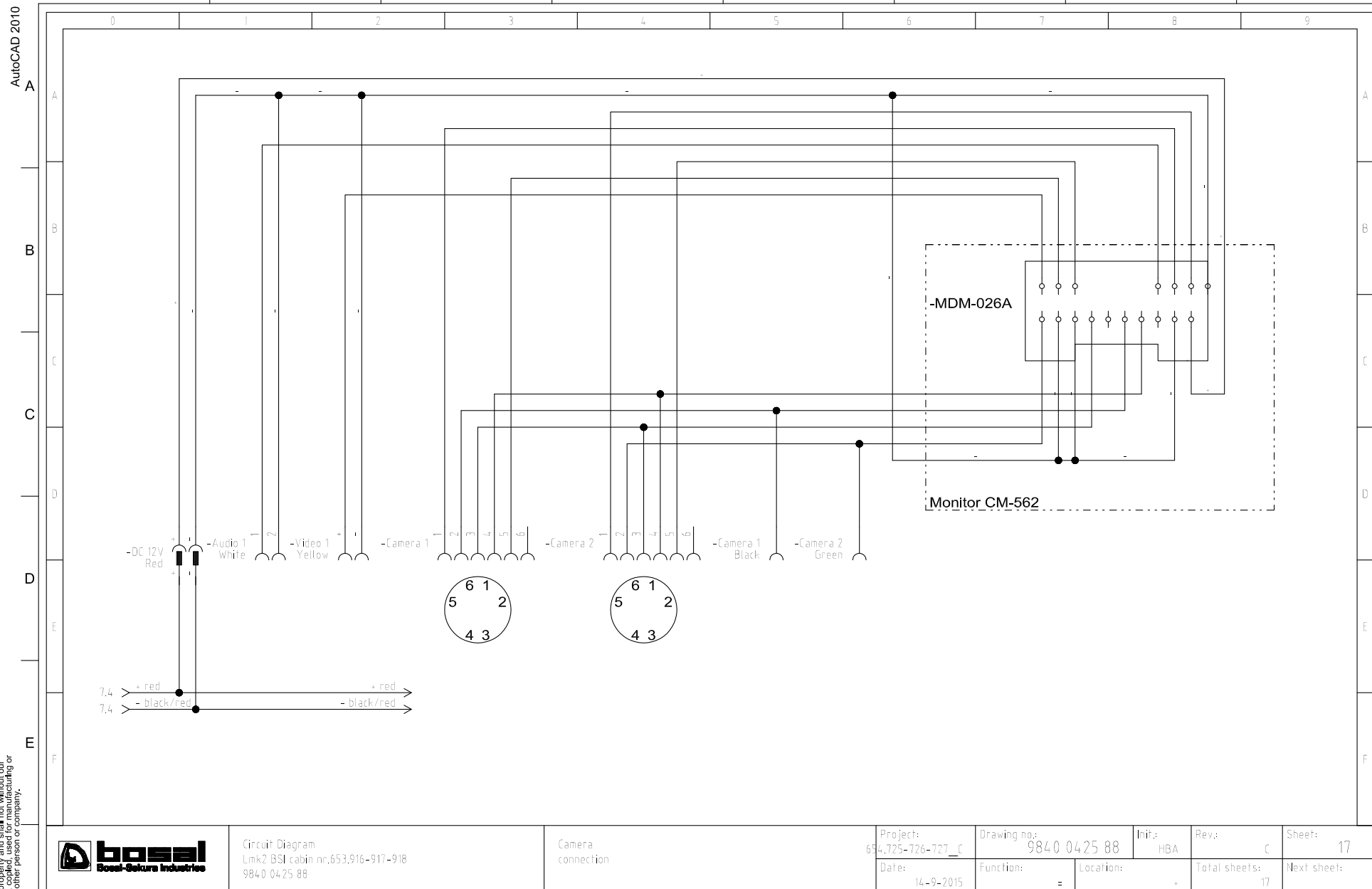
Cable
connection

Project: 654,725-726-727_C	Drawing no: 9840 0425 88	Init.: HBA	Rev.: C	Sheet: 16
Date: 14-9-2015	Function: =	Location: +	Total sheets: 17	Next sheet: 17

Name FlexiROC Large Tier 3 and Tier 4/ L8 (30)							Transf. fr.	Drawn tmgmiin	Approver tmgmiin	Type Electrical system	A3
003	Update cabin harness with BR option	TMG1505004	2015-09-30	tmgxufl	tmgxufl	tmgcm	Confidentiality class acc.1102 K Internal	Design chd. tmgmbe	Drawing owner TMG	Designation	Sheet
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released	Date 2013-07-12	Compare	9840042588_DS	16(17)

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								Name FlexiROC Large Tier 3 and Tier 4/ L8 (30)						Transf. fr.		Drawn tmgmiin		Approver tmgmiin		Type Electrical system		A					
003		Update cabln harness with BR option		TMG1505004		2015-09-30		tmgxuf		tmgxuf				tmgcm		Confidentiality class acc,1102 K		Design chd, tmgmbe		Drawing owner TMG		Designation		Sheet		17(17)	
Rev.		Pos.		Modified from		Date		Mod.by		Chd.by				Appd.by		Circuit diagram		Status Released		Date 2013-07-12		Compare		9840042588		DS	
								Cabin																			

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I/O chart wagon frame DTH	04
I/O chart wagon frame TH	05
I/O chart wagon frame CR	06
I/O chart FEED RHS 102	07
I/O chart FEED RHS 140	08
CAN BUS	09
I/O chart cabin	10

Name FLEXIROC L TIER 3/ TIER 4 FINAL							Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmbe	Confidentiality class acc.1102 K	Design chd. tmgxran	Drawing owner TMG	Designation	Sheet
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Table of contents	Status Released	Date 2013-08-28	Compare	9840042604_DS	01(10)



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AutoCAD 2010

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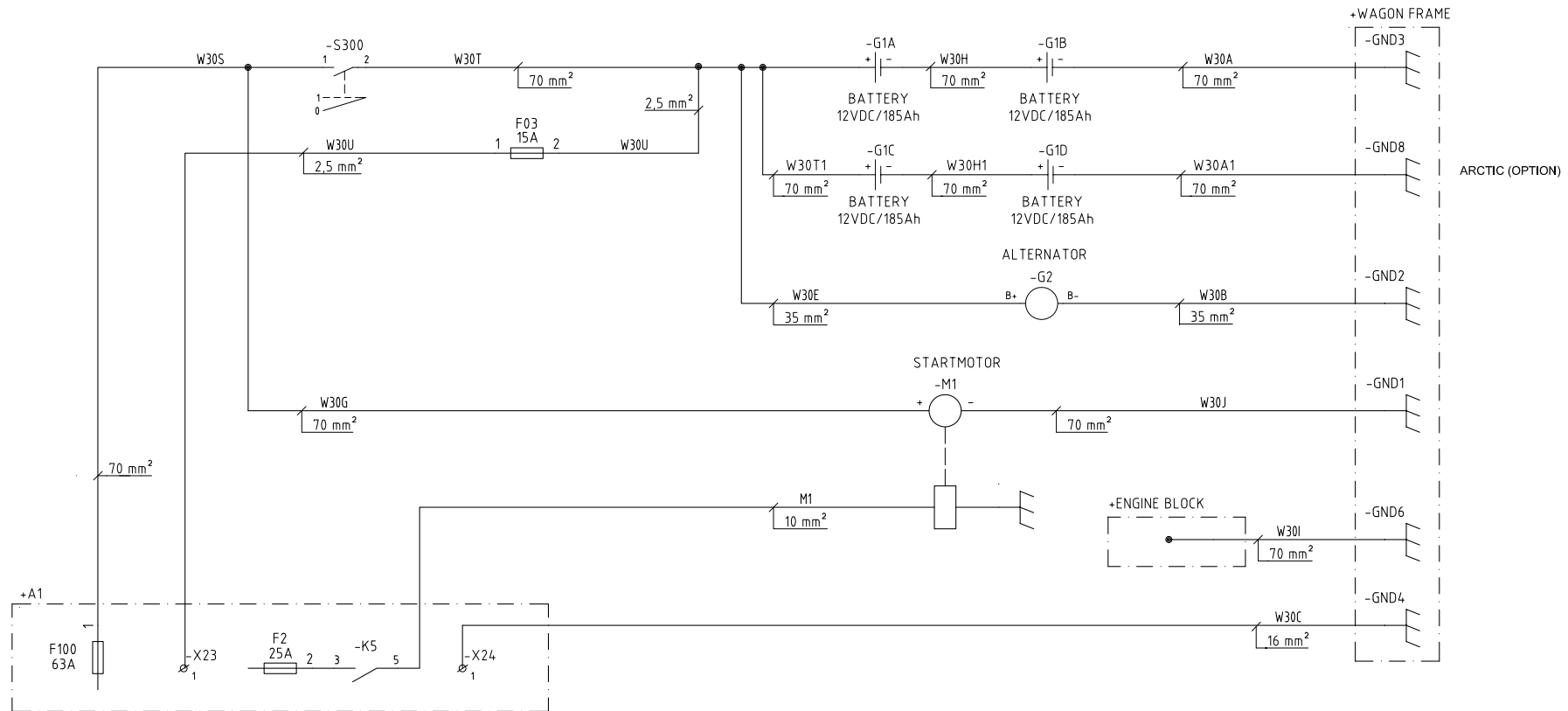
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004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmtn	Block diagram			Confidentiality class acc.1102 K Internal	Design chd. tmgxran	Drawing owner TMG	Designation Sheet	02(10)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Main power supply			Status Released	Date 2013-08-28	Compare	9840042604 DS	

Jahan Compressor

AutoCAD 2010

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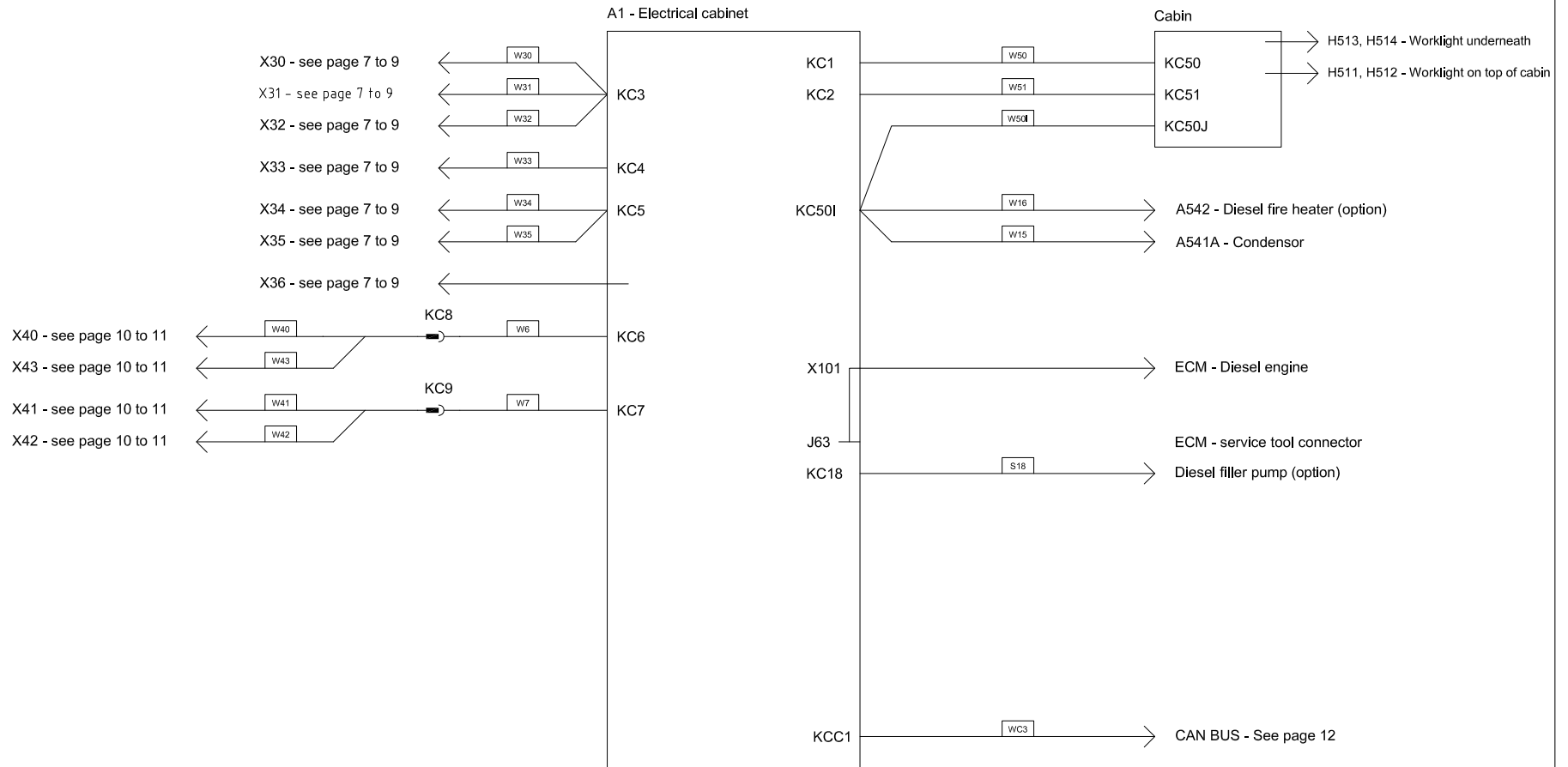
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Name FLEXIROC L TIER 3/ TIER 4 FINAL								Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmtn	Confidentiality class acc.1102 K		Design chd. tmgxran	Drawing owner TMG	Designation	
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Internal		Status	Compare	Sheet	
								Released		Date 2013-08-28		9840042604_DS	



Name FLEXIROC L TIER 3/ TIER 4 FINAL								Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmtn	Confidentiality class acc.1102 K		Design chd. tmgxran	Drawing owner TMG	Designation	
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03(10)

9840042604_DS

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AutoCAD 2010

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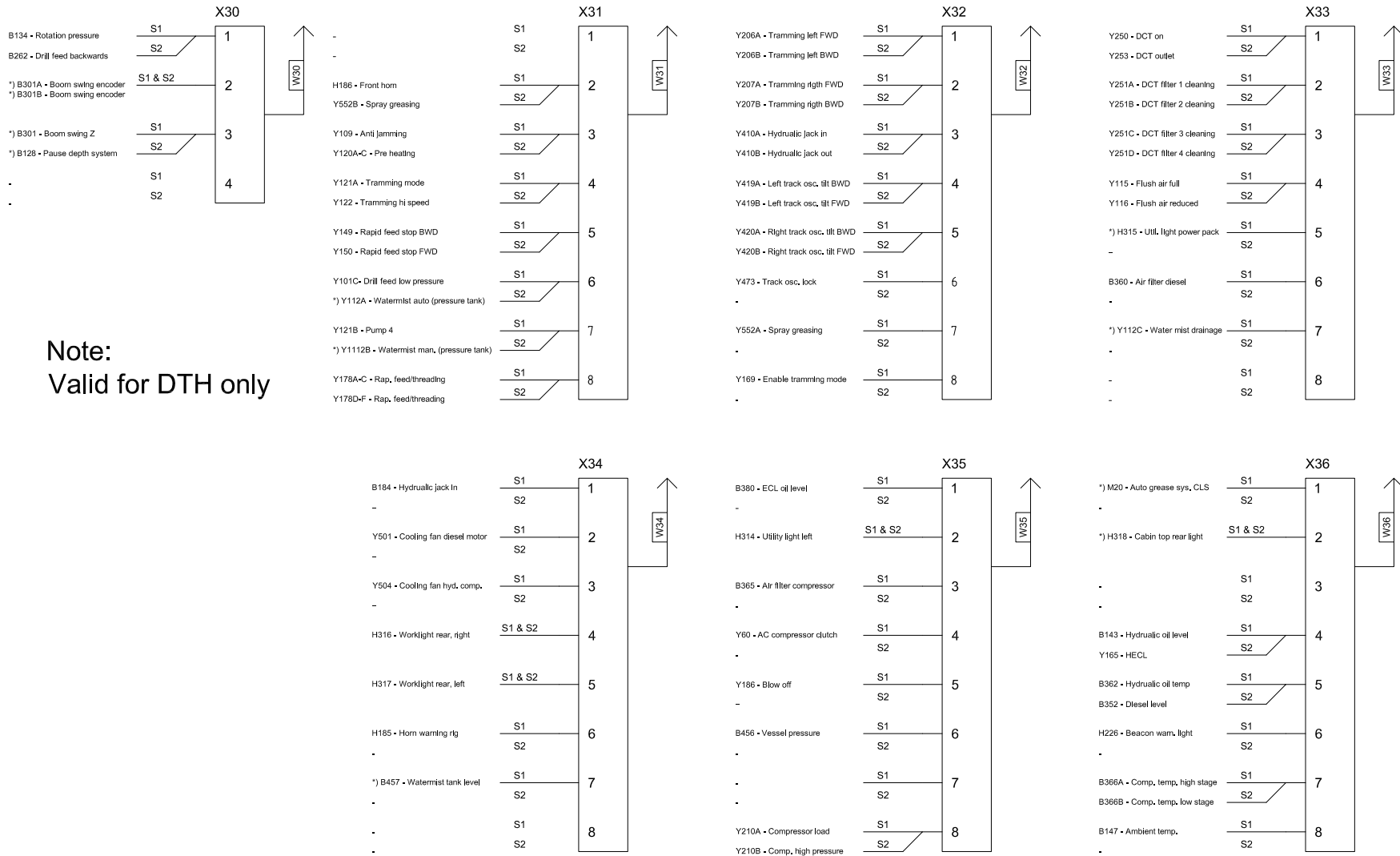
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Note:
Valid for DTH only



Name FLEXIROC L TIER 3/ TIER 4 FINAL								Transf. fr.	Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3			
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Rev.	Pos.	Modified from		Date	Mod.by	Chd.by		Appd.by	I/O chart wagon frame DTH	Status Released	Date 2013-08-28		Compare	9840042604 DS	

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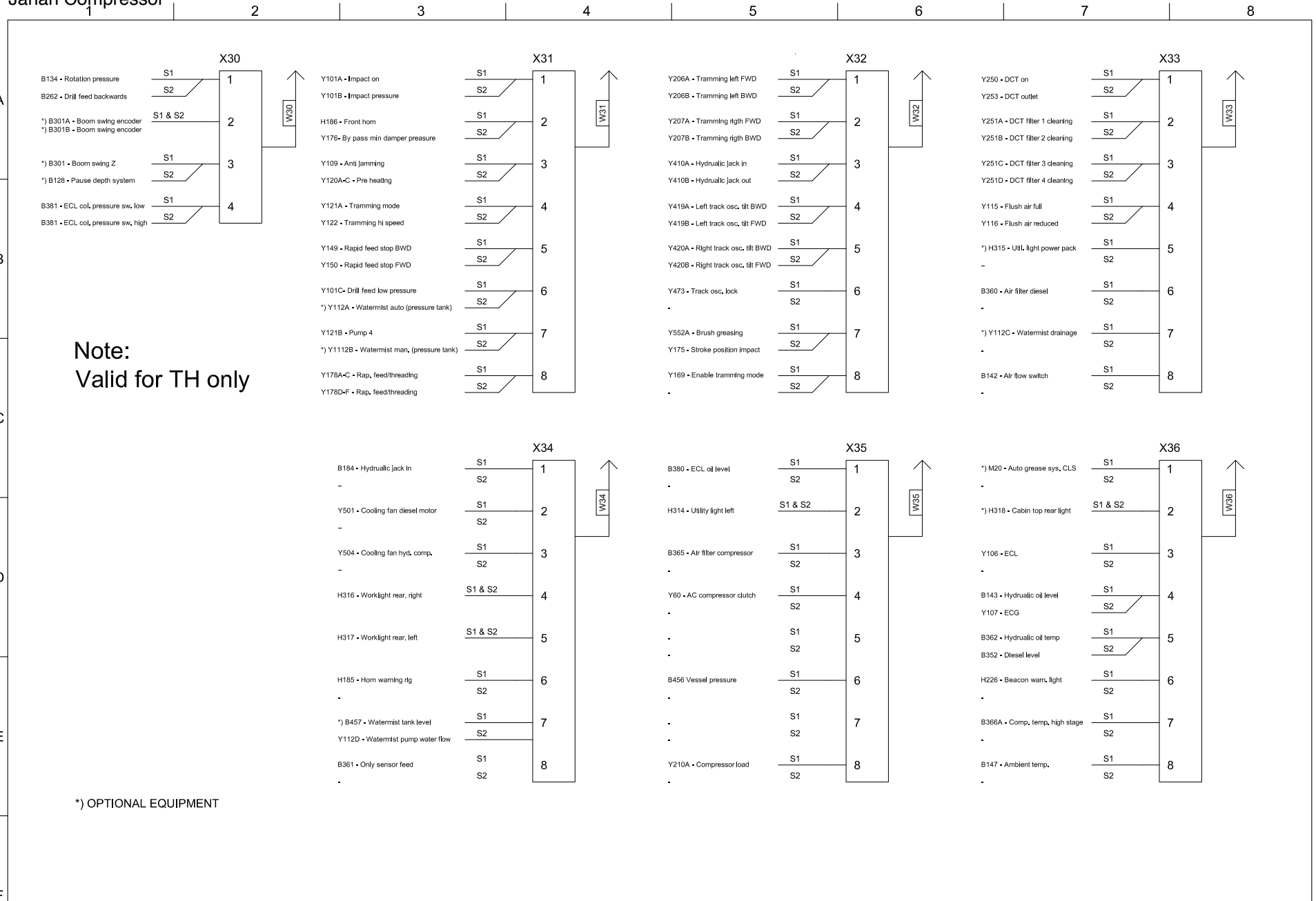
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Note:
Valid for TH only

*) OPTIONAL EQUIPMENT

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004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmtn	Block diagram			Confidentiality class acc.1102 K Internal		Design chd. tmgxran	Drawing owner TMG	Designation Sheet		05(10)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	I/O chart wagon frame TH			Status Released		Date 2013-08-28	Compare		9840042604 DS	

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Note:
Valid for CR only

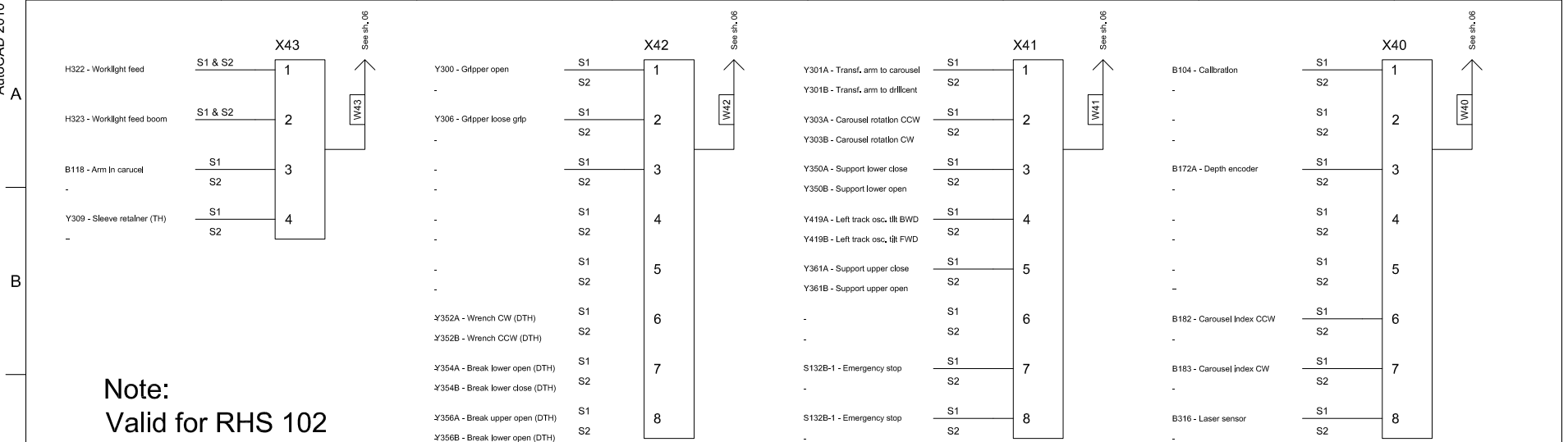
*) OPTIONAL EQUIPMENT

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004								Block diagram				Confidentiality class acc.1102 K Internal		Design chd. tmgxran		Drawing owner TMG		Designation Sheet			06(10)
Rev.								I/O chart wagon frame CR				Status Released		Date 2013-08-28		Compare					
Pos.																					
Modified from																					
Date																					
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Note:
Valid for RHS 102
only

*) OPTIONAL EQUIPMENT

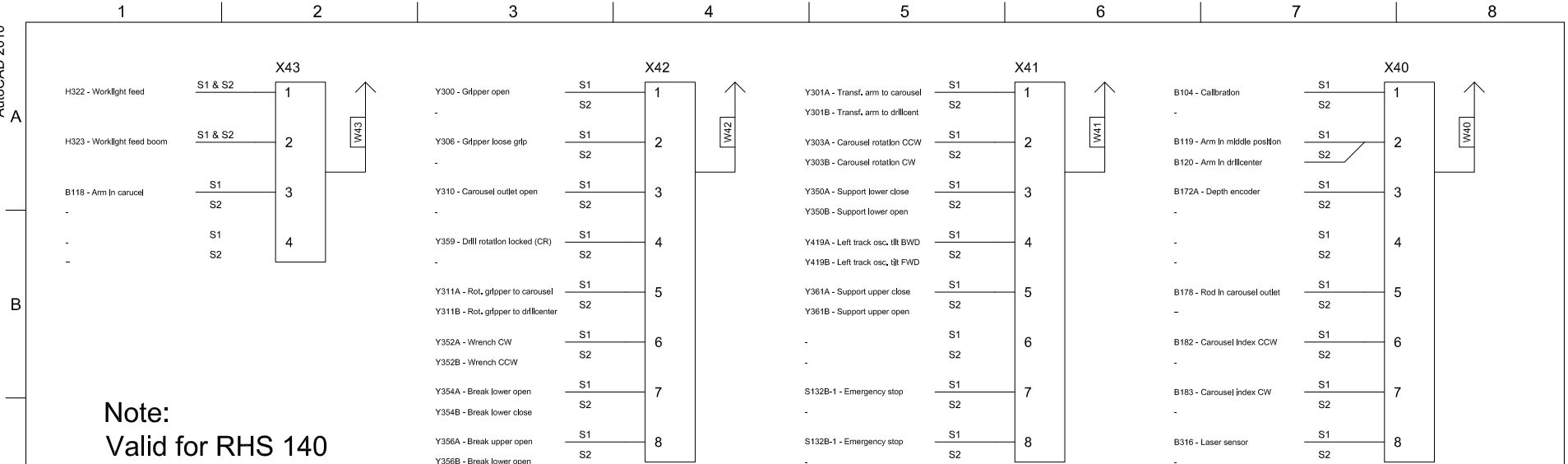
Name FLEXIROC L TIER 3/ TIER 4 FINAL							Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004	B136 level sensor renamed as B457	TMG1711541	2018-03-27	lpcgdr	lpcgdr	tmgmth	Confidentially class acc.1102 K		Design chd. tmgxran	Drawing owner TMG	Designation Sheet	
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released		Date 2013-08-28	Compare	9840042604_DS	



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Note:
Valid for RHS 140
only

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Name FLEXIROC L TIER 3/ TIER 4 FINAL							Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004	B136 level sensor renamed as B457	TMG1711541	2018-03-27	lpcgdr	lpcgdr	tmgmth	Confidentially class acc.1102 K		Design chd. tmgxran	Drawing owner TMG	Designation	Sheet
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released		Date 2013-08-28	Compare	9840042604_DS	



Jahan Compressor

AutoCAD 2010

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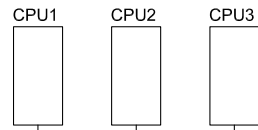
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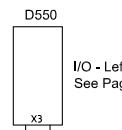
A1 - Electrical cabinet



Cabin



I/O - Left POD
See Page 13



I/O - Left POD
See Page 13



I/O - Right POD
See page 13

D501 - Display

X3 - CAN1 IN

CAN1 OUT - X4

X2 - CAN2 IN

T

D169 - Sight

5/BB

6/BA

6/BB

6/C

WC9 - if D173 is not present

*) D173 - GPS compass

WC13

D171 - Inclinator

WC10

WC9

5/E

T

T CAN BUS - Termination

*) OPTIONAL EQUIPMENT

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Name FLEXIROC L TIER 3/ TIER 4 FINAL								Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmbe	Confidentiality class acc.1102 K	Internal	Design chd. tmgxran	Drawing owner TMG	Designation	Sheet
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	CAN BUS	Status	Released	Date	2013-08-28	Compare	9840042604_DS



09(10)

9840042604_DS

Jahan Compressor

AutoCAD 2010

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*) OPTIONAL EQUIPMENT

D550		D551		D552	
B379 OPERATOR IN CHAIR	1	S100-A3 SWITCH FLUSH AIR	1	S130-1 SWITCH DRILL MODE	1
GND	2	S111-64 MANIPULATOR RHS ARM TO CARUCEL	2	S130-3 SWITCHT RAMMING LOW SPEED	2
S139-60 SWITCH IGNITION KEY START	3	S111-24 MANIPULATOR RHS ARM TO DRILLCENTER	3	S130-5 SWITCH TRAMMING HIGH SPEED	3
S139-15 SWITCH IGNITION KEY IGNITION	4	S111-54 MANIPULATOR RHS CARUCEL ROT, CW	4	S130-7 SWITCH PREHEATING POSITION	4
GND	5	S111-34 MANIPULATOR RHS CARUCEL ROT, CCW	5	S176-A1 SWITCH TRACK OSCILLATION TILT LEFT FW	5
GND	6	S111-4 MANIPULATOR RHS OPEN GRIPPER	6	S176-A3 SWITCH TRACK OSCILLATION TILT LEFT BW	6
Y179A HOLD MAGNET DRILL LEVER ROTATION	7	S119-A1 SWITH DRILL SUPPORT UPPER OPEN	7	S177-A1 SWITCH TRACK OSCILLATION TILT RIGHT FW	7
Y179B HOLD MAGNET DRILL LEVER FEED	8	S119-A3 SWITH DRILL SUPPORT UPPER CLOSE	8	S177-A3 SWITCH TRACK OSCILLATION TILT RIGHT BW	8
S446A SWITCH IMPACT PRESSURE LOW	9	S113-A3 SWITCH TAKE UP ROD STRING	9	S180-A3 SWITCH COMPRESSOR LOAD	9
S446B SWITCH IMPACT PRESSURE HIGH	10	S167-A1 SWITCH HOOD UP	10	S186-A3 SWITCH WARNING SIGNAL CABIN	10
S452 SWITCH RAPID FEED THREADING	11	S167-A3 SWITCH HOOD DOWN	11	S209-A1 SWITCH HYDRAULIC JACK IN	11
S453 SWITCH MAGNETS OFF DRILL LEVER	12	S181-A3 SWITCH OPEN DCT HATCH	12	S209-A3 SWITCH HYDRAULIC JACK OUT	12
GND	13	S182-A3 SWITCH SLEEVE RETAINER	13	GND	13
GND	14	S187-A1 SWITCH DRILL SUPPORT LOWER OPEN	14	GND	14
H452 LED GREEN RAPID/DRILL FEED	15	S187-A3 SWITCH DRILL SUPPORT LOWER CLOSE	15	GND	15
H446 LED YELLOW IMPACT PRESSURE	16	S257A3 SWITCH ROC DRILL LOCK ROTATION	16	GND	16

D553		D554	
S258-A1 SWITCH WERNICH COW	1	GND	1
S258-A3 SWITCH WERNICH CW	2	S445-A3 SWITCH TRACK SSCILLATION FLOATING	2
S259-A3 SWITCH BRAKE LOWER OPEN/CLOSE	3	S448-A1 SWITCH WATERMIST MAN	3
S260-A3 SWITCH BRAKE UPPER OPEN/CLOSE	4	S448-A3 SWITCH WATERMIST AUTO	4
GND	5	GND	5
GND	6	GND	6
S400-A3 SWITCH STROKE POSITION IMPACT	7	GND	7
GND	8	GND	8
GND	9	S449-A3 SWITCH BRUSH GREASING MAN	9
GND	10	S449-A3 SWITCH BRUSH GREASING AUTO	10
GND	11	S189-A3 SWITCH ENGINE SPEED INC	11
GND	12	S189-A1 SWITCH ENGINE SPEED DEC	12
S174A JOYSTICK TRAMMING LEFT	13	GND	13
S175A JOYSTICK TRAMMING RIGHT	14	GND	14
GND	15	DELAYED ENGINE SHUTDOWN (DES), K303 IN A1	15
GND	16	GND	16

Name FLEXIROC L TIER 3/ TIER 4 FINAL								Transf. fr.		Drawn tmgxran	Approver tmgmbe	Type Electrical system	A3
004		B136 level sensor renamed as B457	TMG1711541	2018-03-27	lpcgdr	lpcgdr	tmgmbe	Confidentiality class acc.1102 K	Internal	Design chd. tmgxran	Drawing owner TMG	Designation	Sheet
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	I/O chart cabin	Status Released	Date 2013-08-28	Compare		9840042604_DS	10(10)

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Confidentiality class acc.1102 K	Internal	Design chd. tmgxran	Drawing owner TMG	Type Electrical system	A3
Status Released	Date 2013-08-28	Compare		Designation	Sheet
				9840042604_DS	10(10)

CROSS REFERENCES LIST

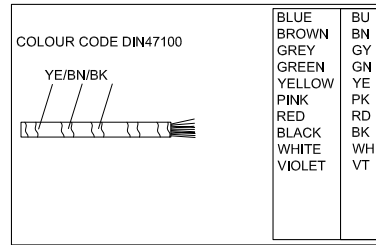
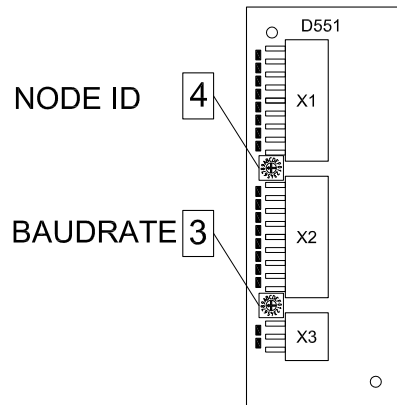
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B118	31	B382	25	F7	5	FX34	13	K01	5	S01	5	S260	20	Y120A	33	Y210B	38	Y357A	39
B119	29	B456	27	F8	5	FX35	13	K5	42	S18	5	S272	21	Y120B	33	Y250	36	Y357B	39
B120	29	B457	26	F9	5	FX36	13	K11	6	S19	5	S300	3	Y120C	33	Y251A	36	Y359	40
B128	25	B460	27	F10	5	FX40	13	K18	42	S100	19	S400	20	Y121A	32	Y251B	36	Y361A	39
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B178	29	D550	18	F17	4	G2	3	K226	35	S132B	6	S451	20	Y169	35	Y301B	39	Y420A	34
B182	30	D551	19	F18	4	H01	5	K300	42	S139	6	S452	18	Y175	35	Y303A	39	Y420B	34
B183	30	D552	21	F19	4	H101	13	K301	06	S167	19	S453	18	Y176	32	Y303B	39	Y473A	34
B184	26	D553	20	F21	4	H102	13	K302	42	S174A	20	S542	14	Y178A	33	Y306	40	Y501	37
B262	25	D554	22	F22	4	H185	37	K303	42	S175A	20	Y60	15	Y178B	33	Y309	41	Y504	37
B301	25	ECM T3	8	F23	6	H186	32	K542	14	S176	21	Y101A	32	Y178C	33	Y310	40	Y552A	35
B316	30	ECM T4F 9,10		F24	13	H226	13	M1	3	S177	21	Y101B	32	Y178D	33	Y311A	40	Y552B	32
B352	28	F02	3	F25	4	H314	11	M18	5	S180	21	Y101C	32	Y178E	33	Y311B	40	Y554	36
B360	26	F03	3	F26	4	H315	11	M19	5	S181	19	Y106	38	Y178F	33	Y350A	39	Y617A	45
B361	8, 10	F04	3	F31	4	H316	11	M20	13	S182	19	Y107	38	Y179A	18	Y350B	39	Y617B	45
B362	28	F05	3	F33	4	H317	11	M541A	15	S186	21	Y109	33	Y179B	18	Y352A	40		
B365	26	F06	3	F35	45	H318	11	M541B	15	S187	19	Y112A	32	Y186	38	Y352B	40		
B366A	28	F1	7	F40	7	H322	11	P110	13	S189	22	Y112B	32	Y206A	34	Y354A	40		
B366B	28	F3	4	F41	7	H323	11	P542	14	S209	21	Y112C	36	Y206B	34	Y354B	40		
B379	18	F4	5	F100	4	H446	18	R02	16	S257	19	Y112D	37	Y207A	34				

								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3	
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin		Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	01(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by		Wire diagram	Status Released	Date 2015-11-23	Compare	9840042653	DS
															Cross reference list

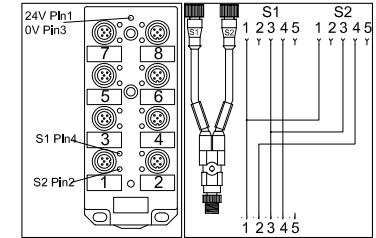
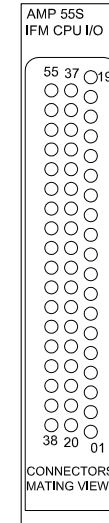
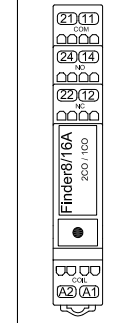
GENERAL INFORMATION

- * X1/25 = +24V before ignition.
X1/50 = +24V after ignition.
X1/100 = 0V.
X50/100 = 0V in cabin.
- * A1 = main electrical cabinet.
Wire colours in the cabinet are generally (if nothing noted in the schematic) as follows:
RED = +24V supply
BLACK = 0V
WHITE = signal
- * A "+" next to a box with linetype dashdot means that everything inside the box is located at the specified place, for instance +A1, +Cabin, etc.
- * Cabin electrical system in separate drawing 9840 0424 09.
- * Example below is showing how to set NODE ID and baudrate for cabin modules.
Example shows NODE ID 04 with baudrate 250 kB/s. Setting 3 = 250 for all modules.

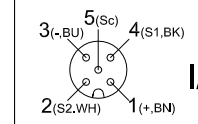
PLEASE OBSERVE THAT BAUDRATE SWITCH SETTING IS CHANGED FROM SOFTWARE 2.00 AND CABIN MODULE UPDATE.



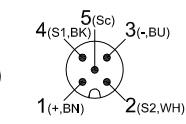
Signal relay



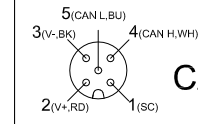
Female Mating view



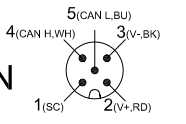
Male Mating view



Female Mating view

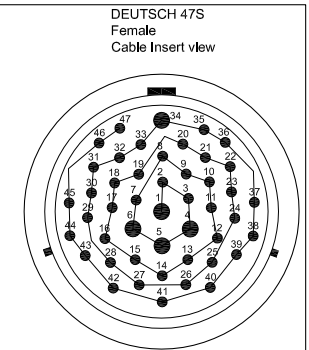
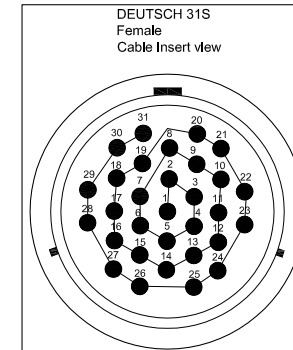


Male Mating view



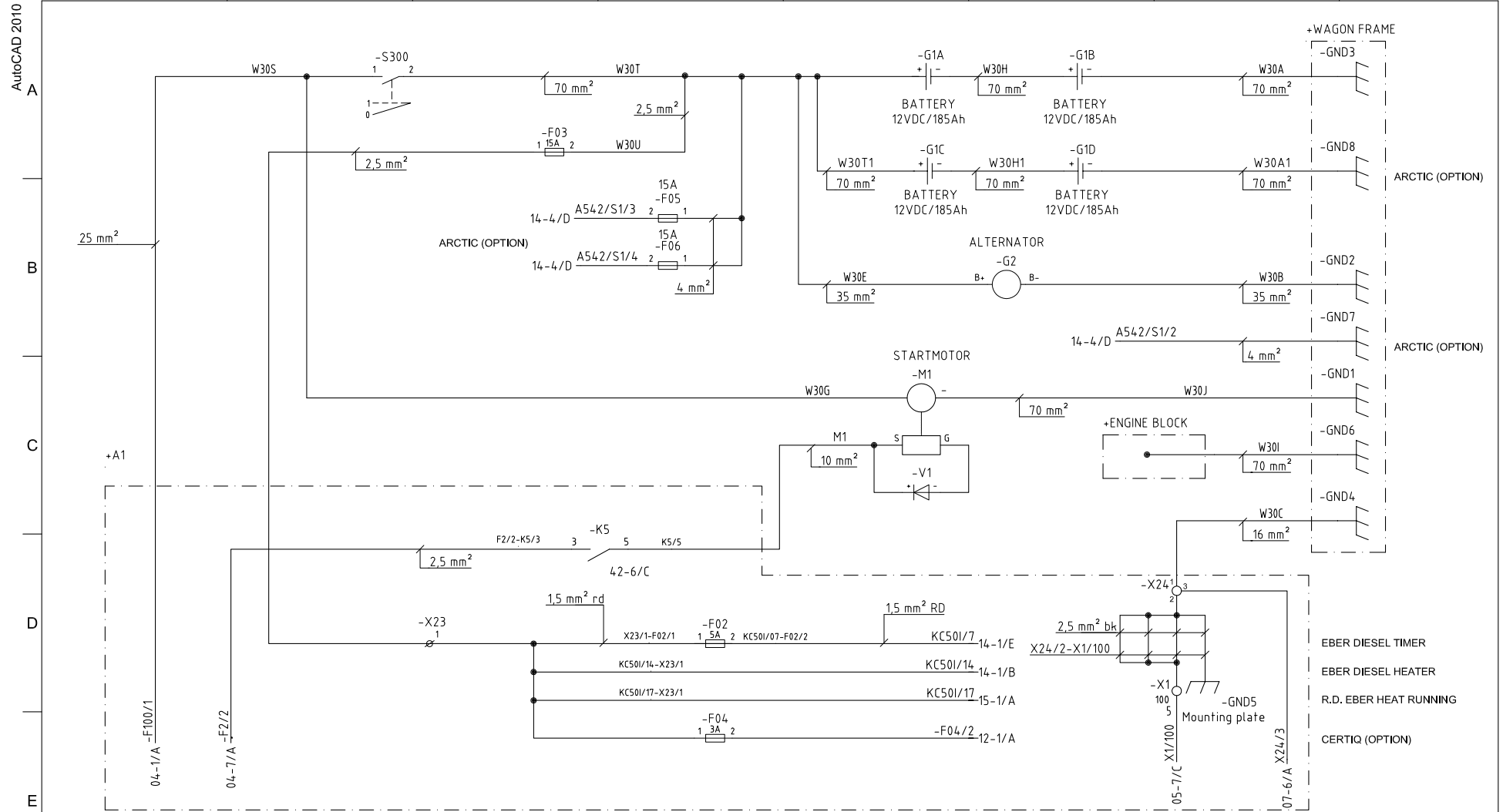
FUSE COLOURS

BLACK	1A
GREY	2A
VIOLET	3A
PINK	4A
TAN	5A
BROWN	7,5A
RED	10A
BLUE	15A
YELLOW	20A
NATURAL	25A
GREEN	30A
BLUE/GREEN	35A
ORANGE	40A



Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Design chd.	Design owner	
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Date	Compare	
General information				Confidentiality class acc.1102 K		Internal	Released	2015-11-23	

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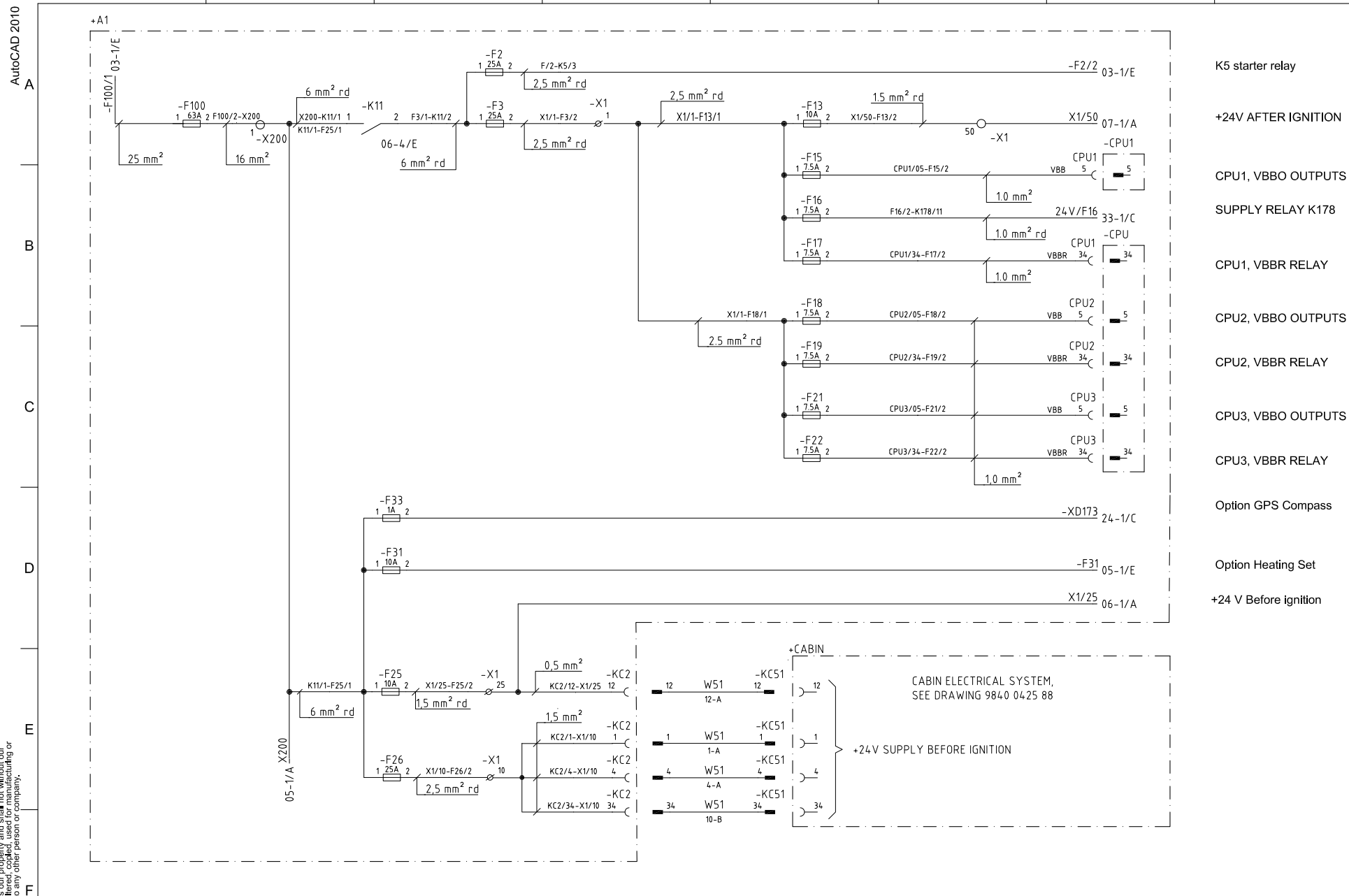
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Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmngmasg	Approver tmngmiin	Type Electrical system	A3
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmngmiin	Design chd. tmngmasg	Designation	Sheet 03(46)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released	Compare	9840042653_DS
Wire diagram				Power					



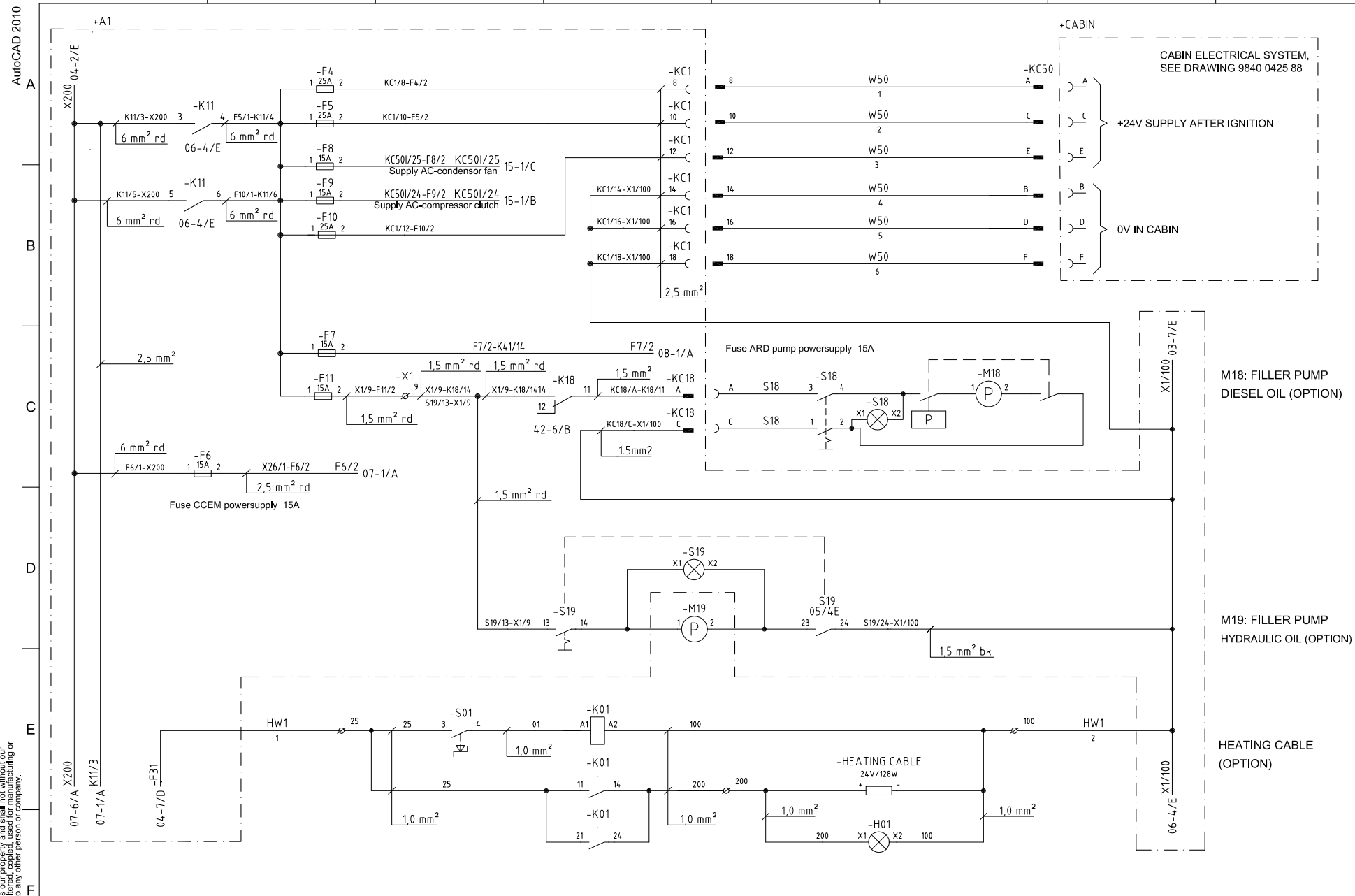
Confidentiality class acc.1102 K	Design chd. tmngmasg	Design owner TMG	Designation	Sheet 03(46)
Released	Date 2015-11-23	Compare	9840042653_DS	

Jahan Compressor



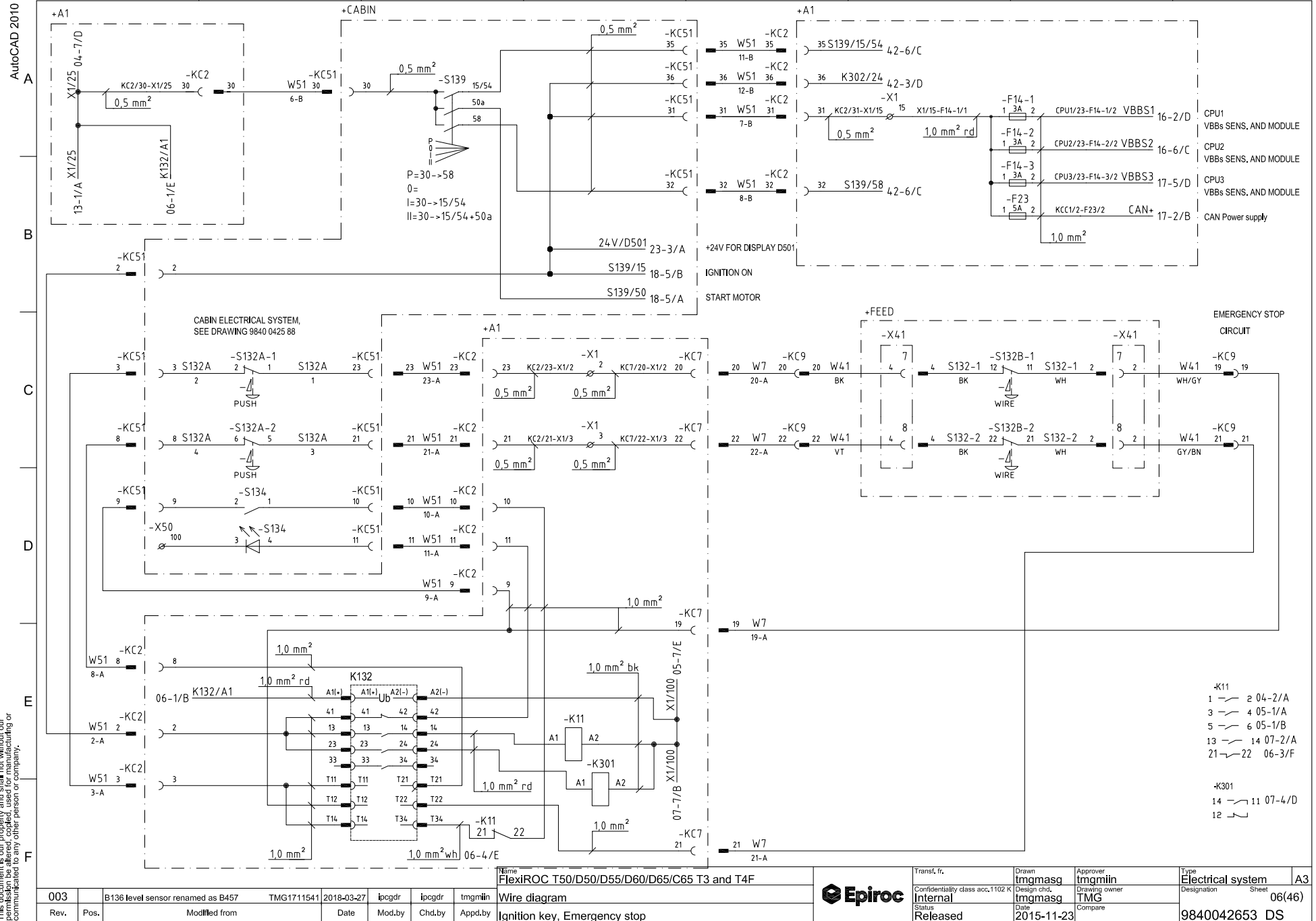
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003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin		Confidentiality class acc.1102 K	Design chd, tmgmasg	Drawing owner TMG	Designation Sheet	04(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by		Internal Released	Date 2015-11-23	Compare	9840042653 DS		
Wire diagram									Fuses						

Jahan Compressor



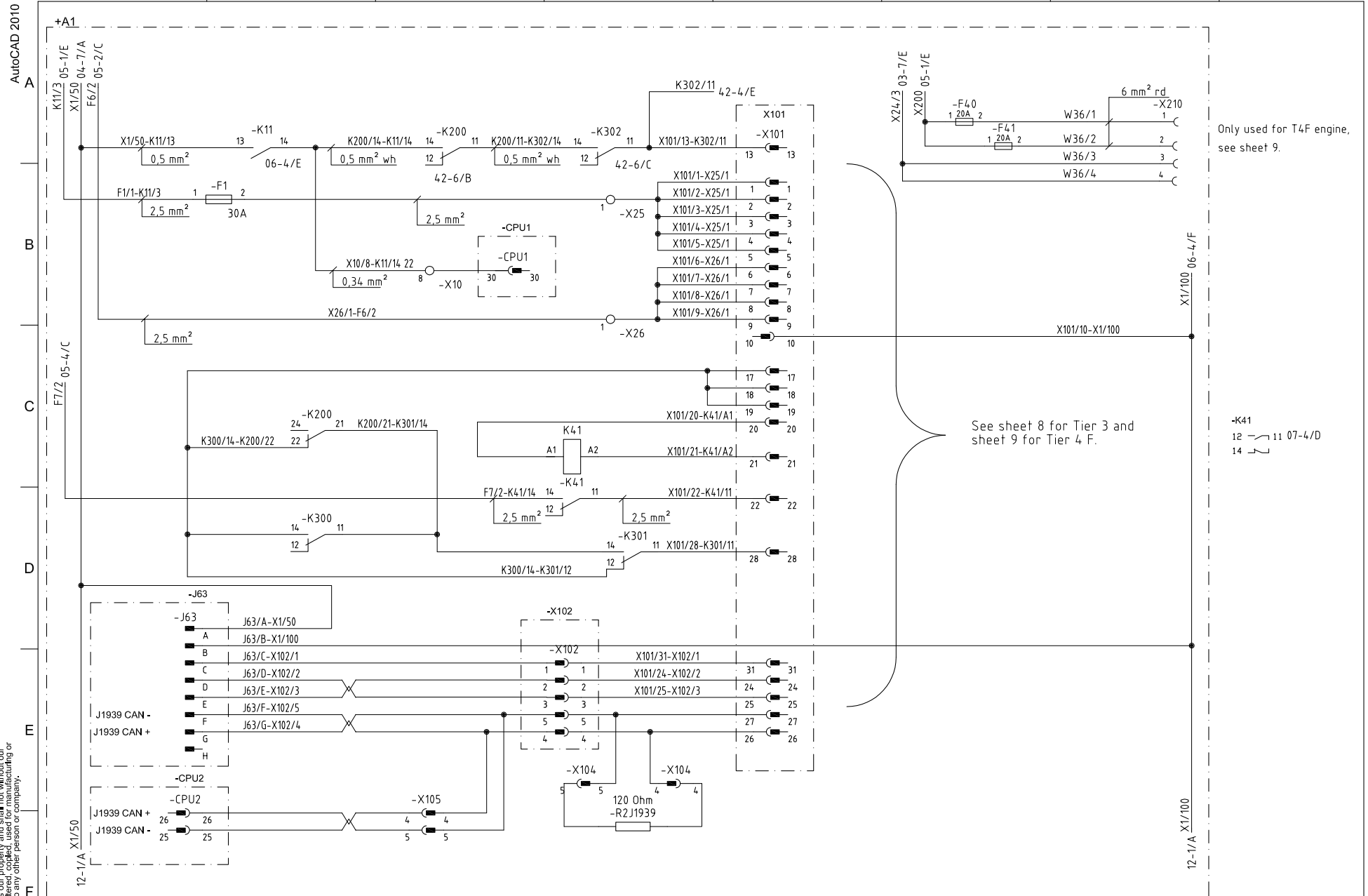
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003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation	Sheet	05(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Power supply		Status Released	Date 2015-11-23	Compare	9840042653 DS		

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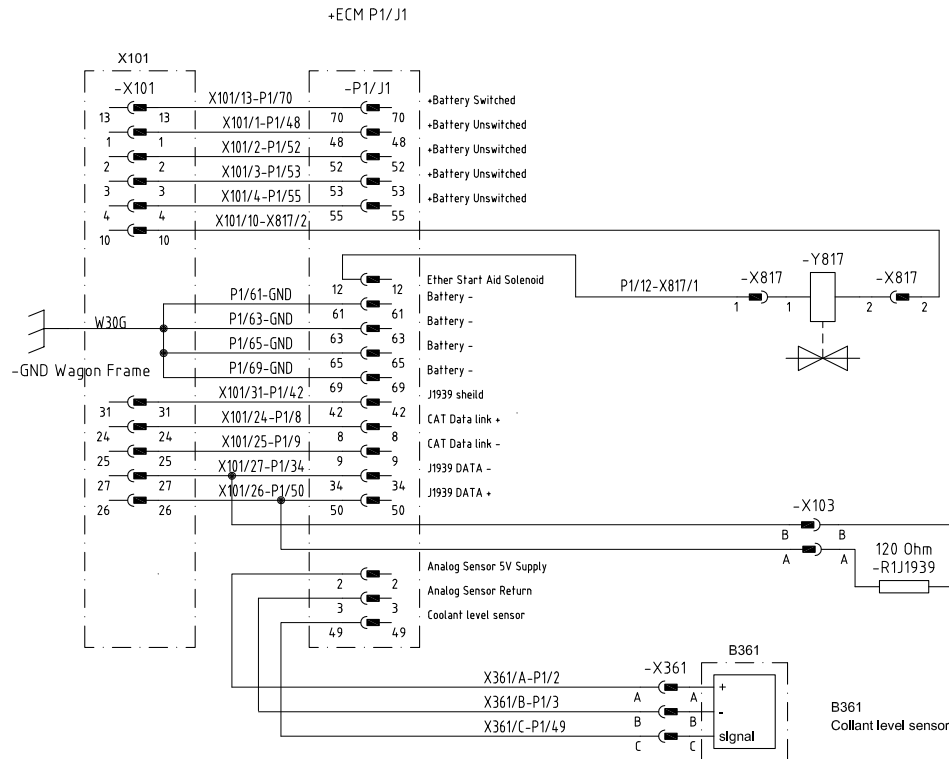
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.	Drawn tmngmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Confidentiality class acc.1102 K Internal	Design chd. tmngmasg		Drawing owner TMG	Designation Sheet	07(46)		
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Wire diagram	Status Released		Date 2015-11-23	Compare	9840042653		DS
								Diesel engine interface inside A1 cabinet							

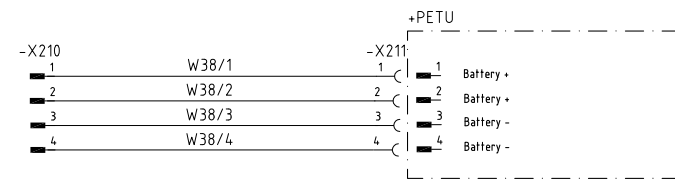
ONLY T3



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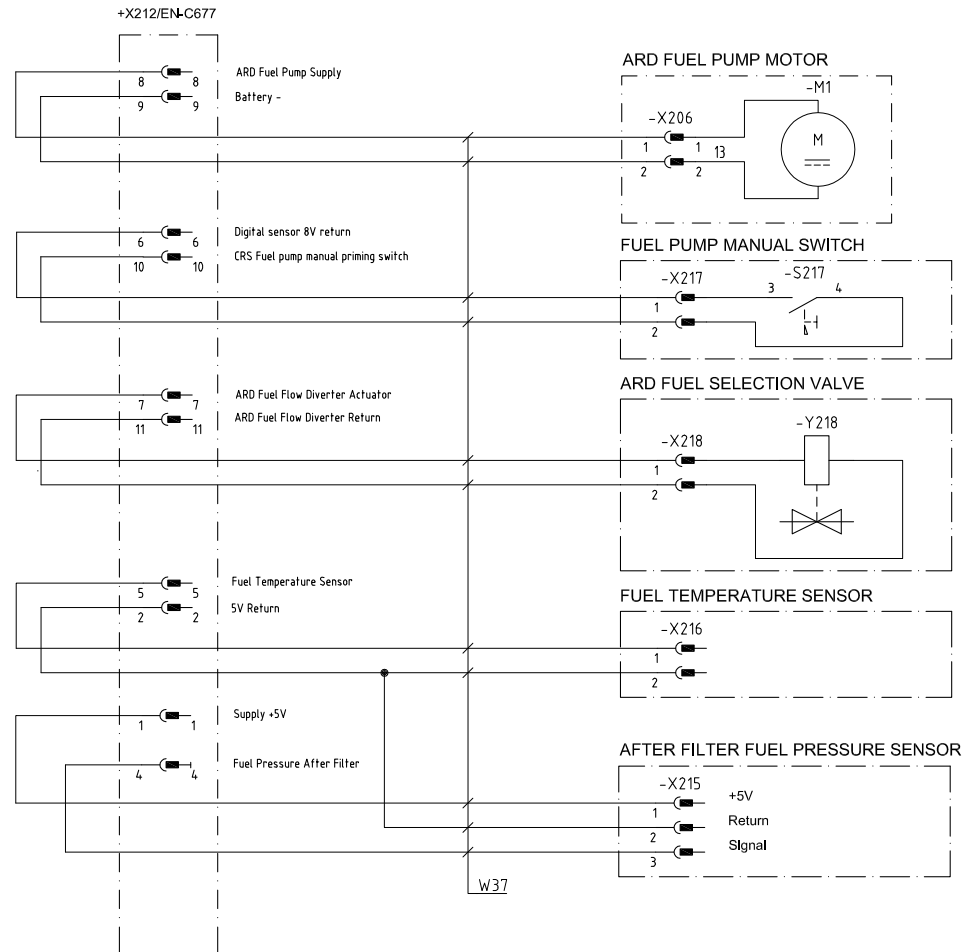
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiln	Wire diagram		Transf. fr.	Drawn	Approved	Type
Rev.		Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Diesel engine interface Tier 3 engine		Confidentiality class acc.1102 K	tmgmasg	tmgmiln	Electrical system
										Internal	tmgmasg	TMG	08(46)
										Released	2015-11-23	Compare	9840042653_DS

F



								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation	Sheet	09(46)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Status Released		Date 2015-11-23	Compare	9840042653	DS	

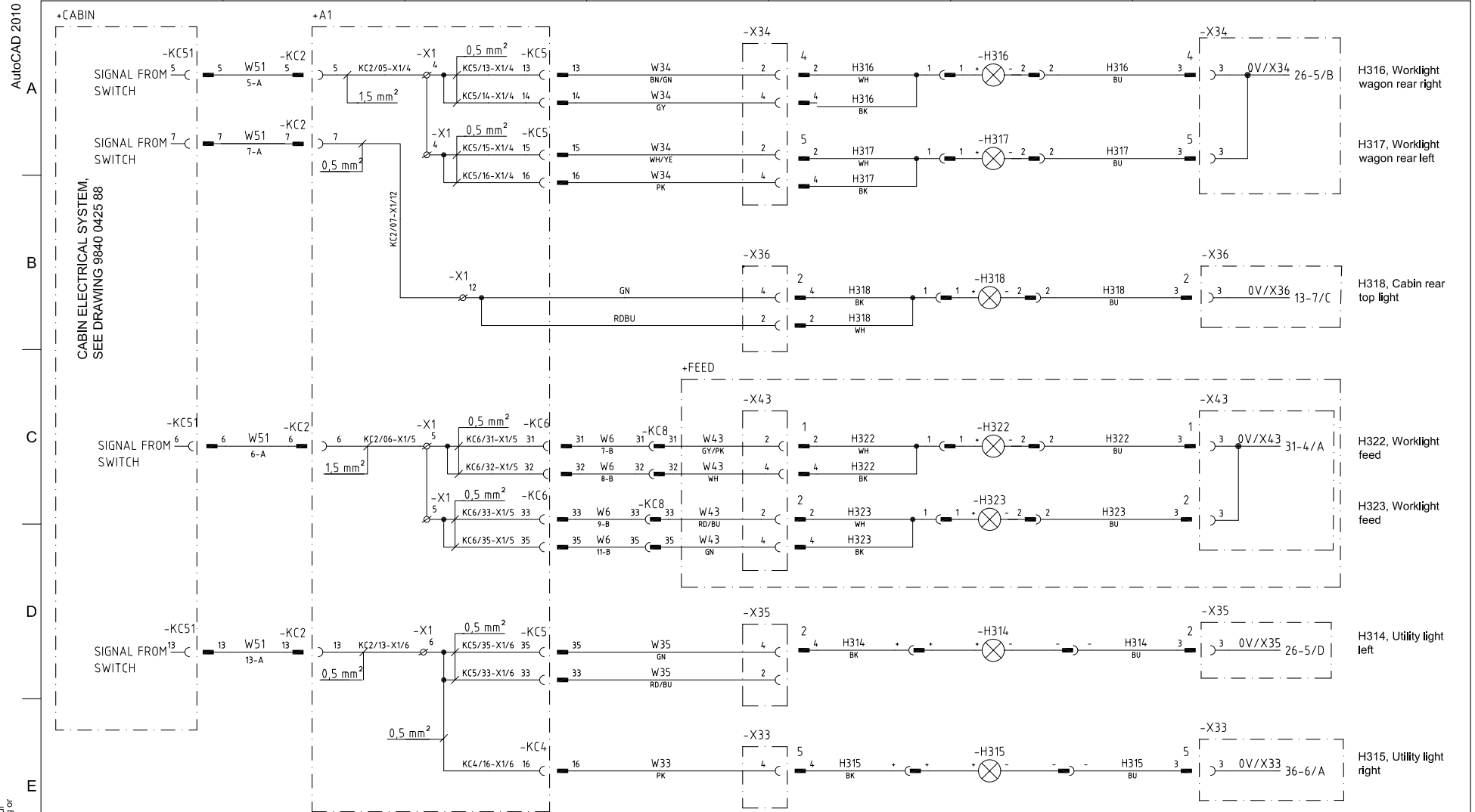
ONLY T4F



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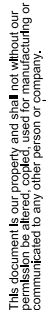
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003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	10(46)		
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Diesel engine interface CCEM Tier 4 Final engine	Status Released		Date 2015-11-23	Compare	9840042653 DS			

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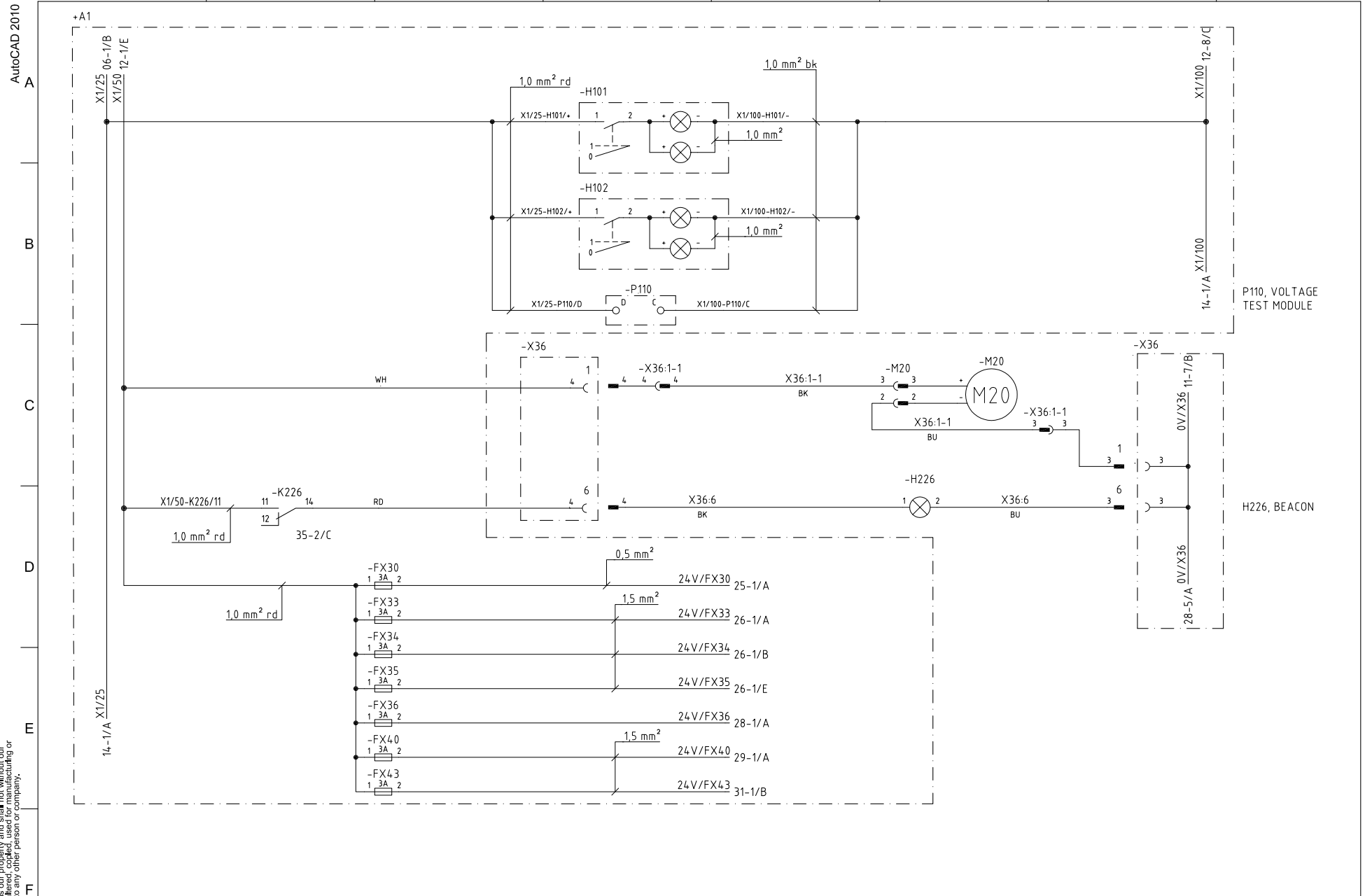


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003			B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiln	Wire diagram	Epiroc	Transf. fr.	Design chd.	tmgmiln	Apprver	tmgmiln	Type	Electrical system	A3
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Work lights		Confidentiality class acc.1102 K	Internal	tmgmiln	Drawing owner	TMG	Designation	Sheet	11(46)
											Status	Released	Date	2015-11-23	Compare	9840042653_DS		



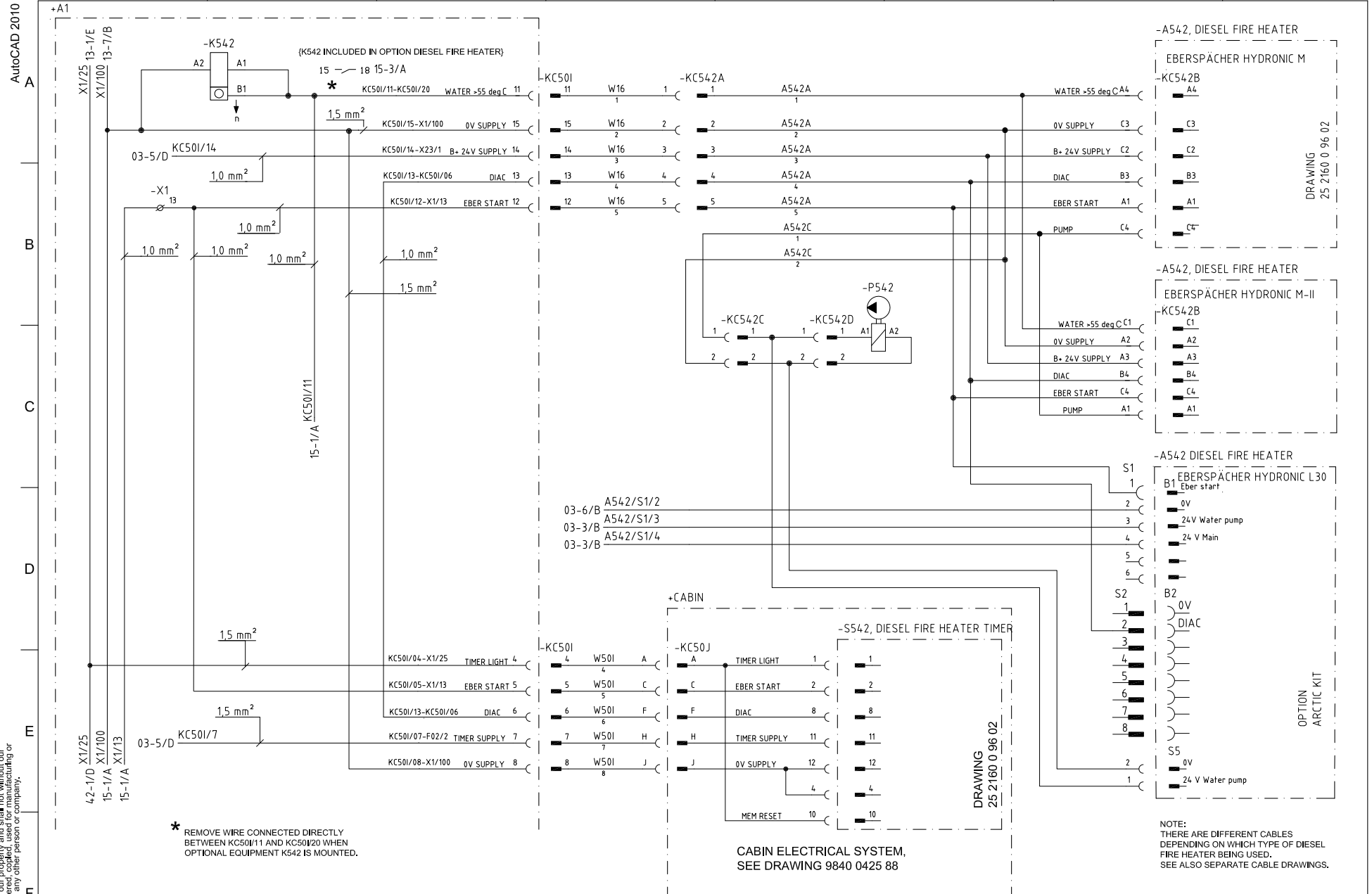
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	13(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Fuses, M20 and A1 cabinet light	Status Released		Date 2015-11-23	Compare	9840042653	DS	

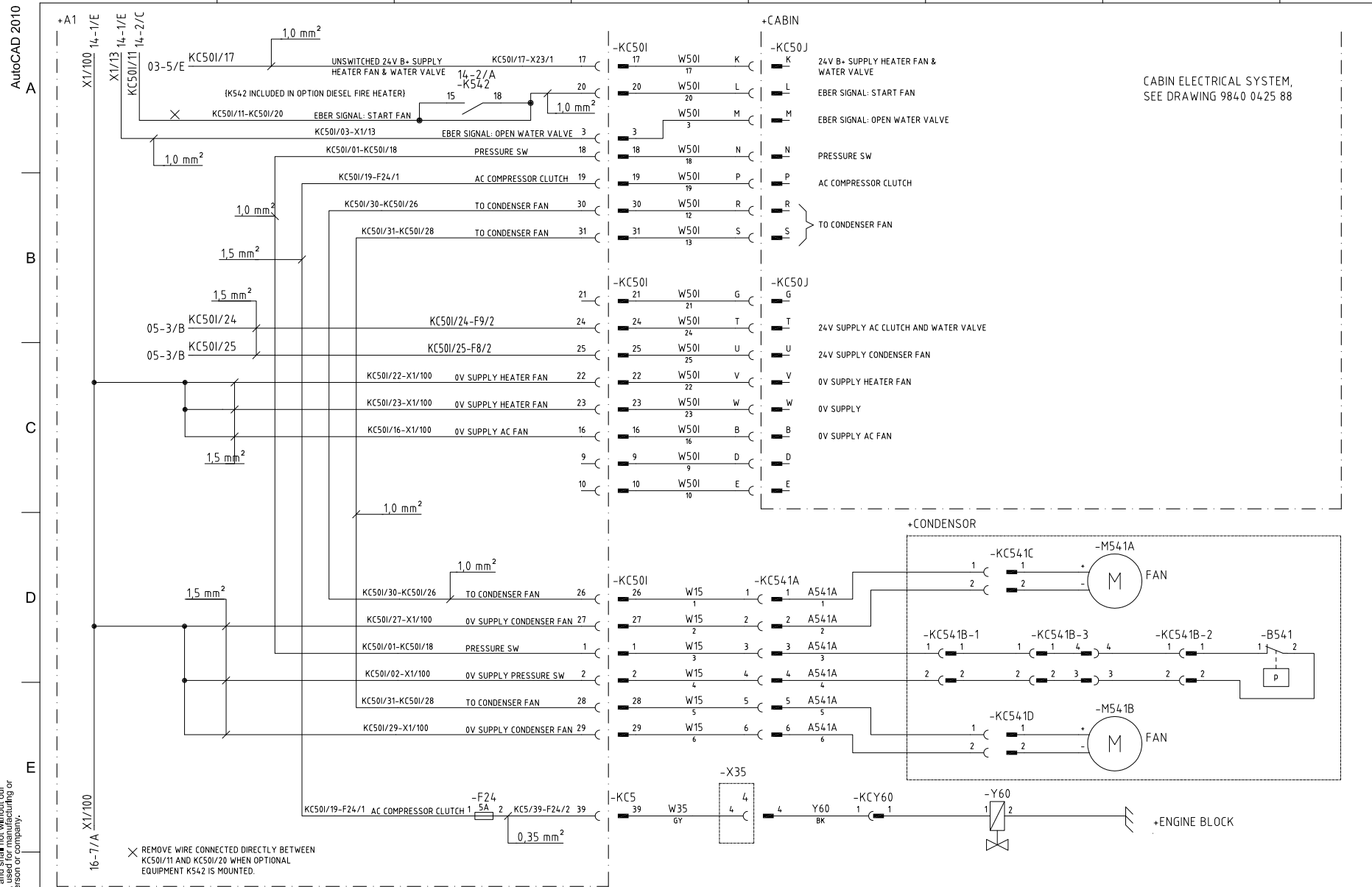
Jahan Compressor



Name				Transf. fr.				Type	
FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Internal				Electrical system	
Wire diagram				Design chd.				Sheet	
Climate and warming system				Status				14(46)	
				Date				9840042653_DS	
				Released					

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							Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin		Confidentiality class acc,1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	15(46)
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by		Appd.by	Status Released	Date 2015-11-23	Compare	9840042653 DS
							Climate and warming system						

Jahan Compressor

AutoCAD 2010

A

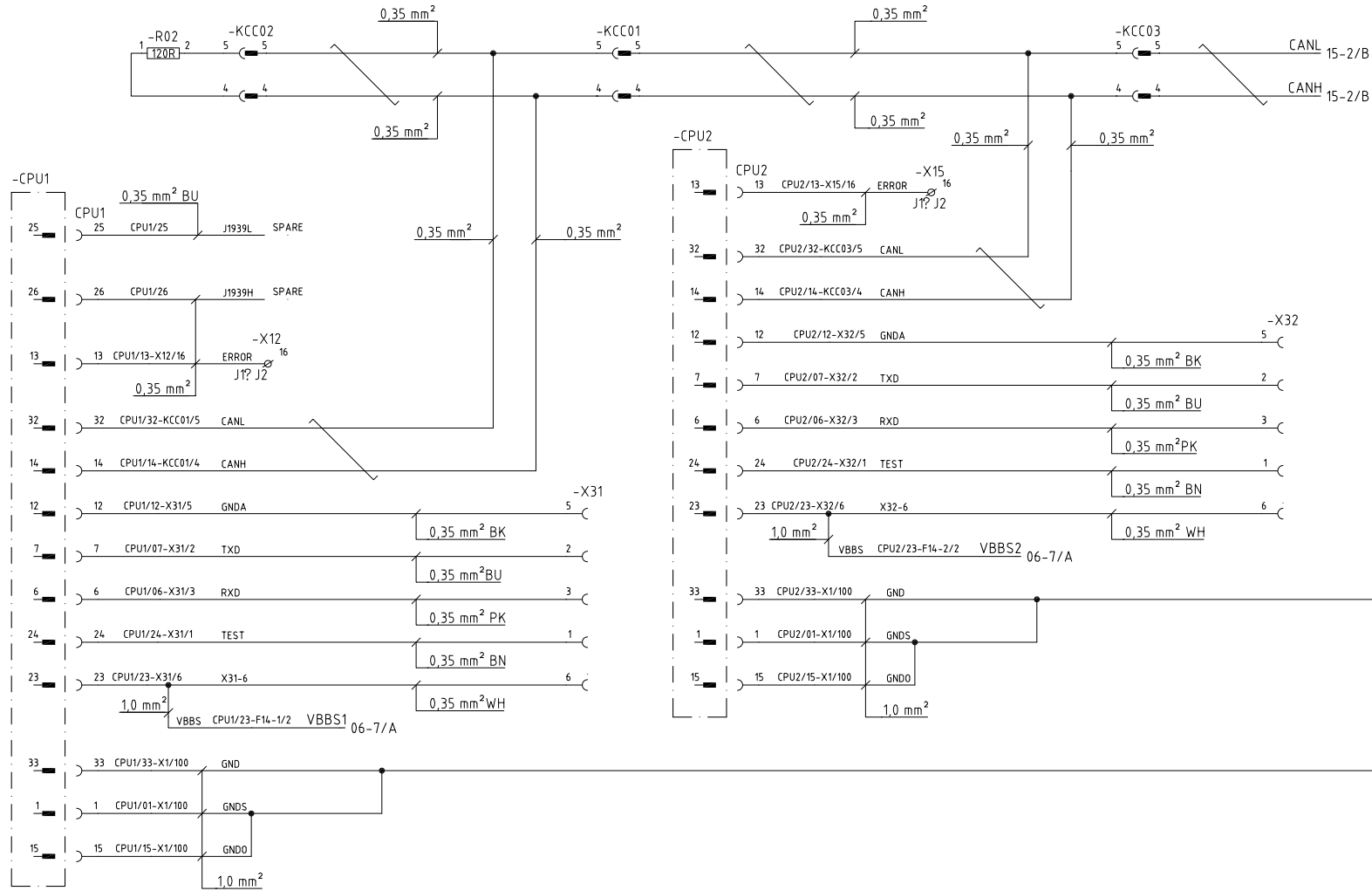
B

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X1/100 15-1/E
X1/100 17-7/A

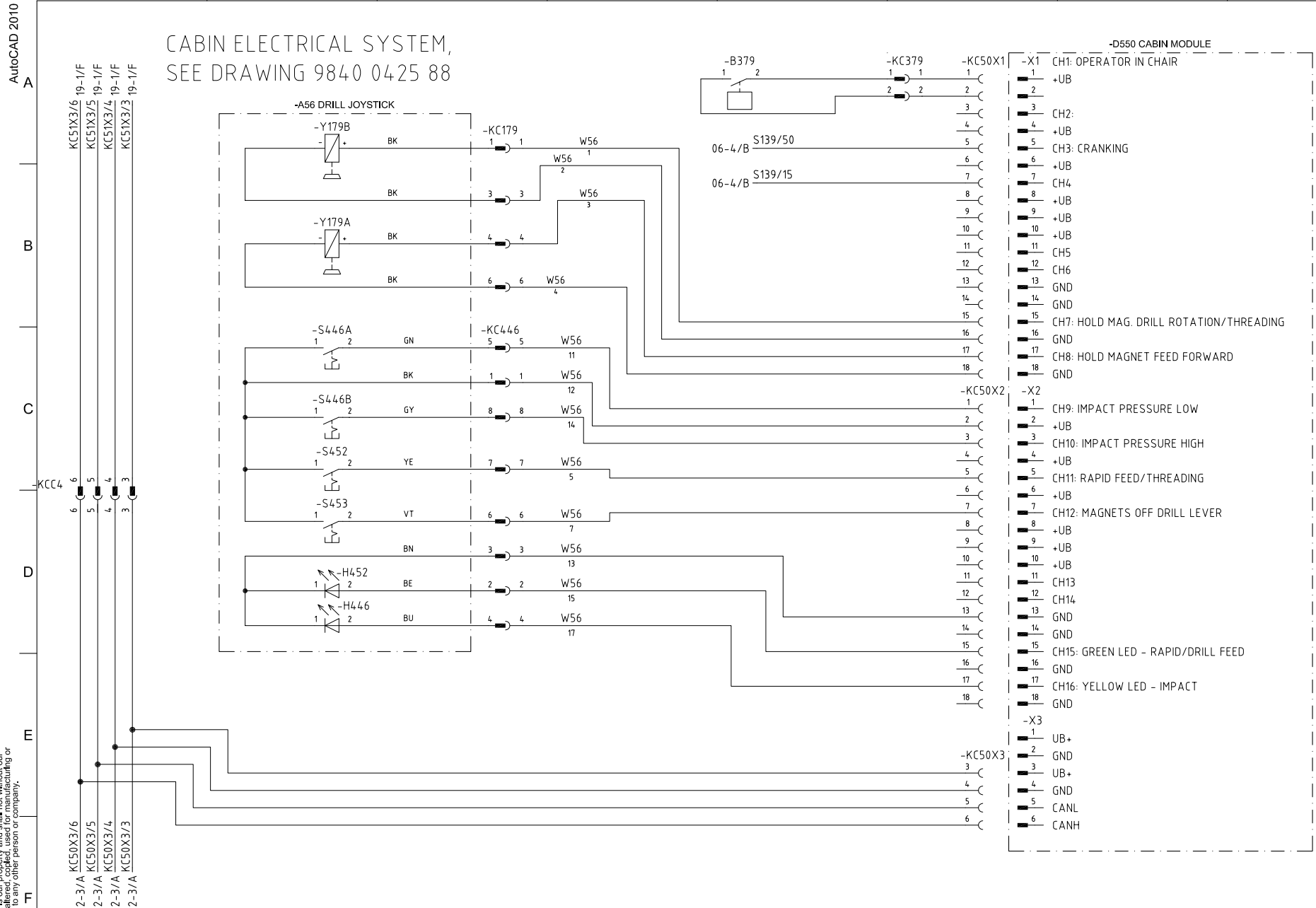
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003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	16(46)		
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	CAN 1 and CPU 2	Status Released		Date 2015-11-23	Compare	9840042653 DS			



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003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram	Confidentiality class acc.1102 K		Design chd. Internal	Drawing owner TMG	Designation	Sheet	17(46)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	CAN CPU 3	Status Released		Date 2015-11-23	Compare	9840042653	DS	

CABIN ELECTRICAL SYSTEM,
SEE DRAWING 9840 0425 88



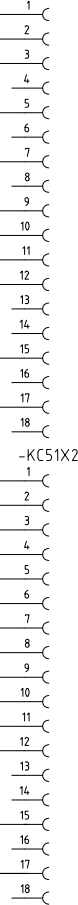
22/03/2022	22/03/2022	22/03/2022	22/03/2022					Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmas	Approver tmgmin	Type Electrical system	A3	
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcdgr	ipcdgr	tmgmin	Wire diagram		Confidentiality class acc,1102 K Internal	Design chd.	Drawing owner TMG	Designation	Sheet	18(46)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	A56 drill joystick cabinet module D550		Status Released	Date 2015-11-23	Compare	9840042653 DS		

CABIN ELECTRICAL SYSTEM, SEE DRAWING 9840 0425 88

-A51 LEFT POD



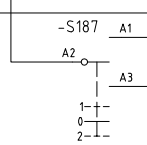
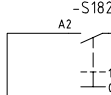
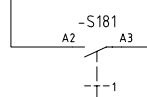
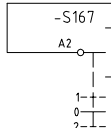
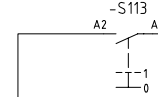
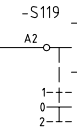
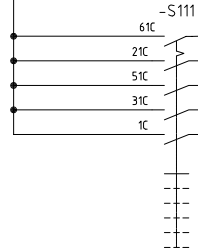
-KC51X1



-D551 left pod

- X1
- 1 CH1: OPERATOR IN CHAIR
- 2 CH1: FLUSH AIR
- 3 +UB
- 4 CH2: RHS ARM TO CAROUSEL
- 5 +UB
- 6 CH3: ARM TO DRILL CENTER
- 7 +UB
- 8 CH4: CAROUSEL ROTATION CW
- 9 +UB
- 10 +UB
- 11 CH5: CAROUSEL ROTATION CCW
- 12 CH6: OPEN GRIPPER
- 13 GND
- 14 GND
- 15 CH7: DRILL SUPPORT UPPER OPEN
- 16 GND
- 17 CH8: DRILL SUPPORT UPPER CLOSE
- 18 GND
- X2
- 1 CH9: TAKE UP RODSTRING
- 2 +UB
- 3 CH10: HOOD UP
- 4 +UB
- 5 CH11: HOOD DOWN
- 6 +UB
- 7 CH12: OPEN DCT HATCH
- 8 +UB
- 9 +UB
- 10 +UB
- 11 CH13: SWITCH SLEEVE RETAINER
- 12 CH14: DRILL SUPPORT LOWER OPEN
- 13 GND
- 14 GND
- 15 CH15: ROCKDRILL LOCK ROTATION
- 16 GND
- 17 CH16: DRILL SUPPORT LOWER CLOSE
- 18 GND
- X3
- 1 UB+
- 2 GND
- 3 UB+
- 4 GND
- 5 CANL
- 6 CANH

NODE SWITCHES: 3-4



- KC53X3/6 20-1/F
- KC53X3/5 20-1/F
- KC53X3/4 20-1/F
- KC53X3/3 20-1/F
- 18-1/A KC51X3/6
- 18-1/A KC51X3/5
- 18-1/A KC51X3/4
- 18-1/A KC51X3/3

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18 18 18 18								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.		Drawn tmgmasg		Approver tmgmiin		Type Electrical system		A3							
003		B136 level sensor renamed as B457		TMG1711541		2018-03-27		ipcgdr			ipcgdr		tmgmin		Wire diagram		Confidentiality class acc. 1102 K Internal		Design chd. tmgmasg		Drawing owner TMG		Designation Sheet		19(46)	
Rev.		Pos.		Modified from		Date		Mod.by			Chd.by		Appd.by		A51 left pod D551		Status Released		Date 2015-11-23		Compare		9840042653		DS	

A

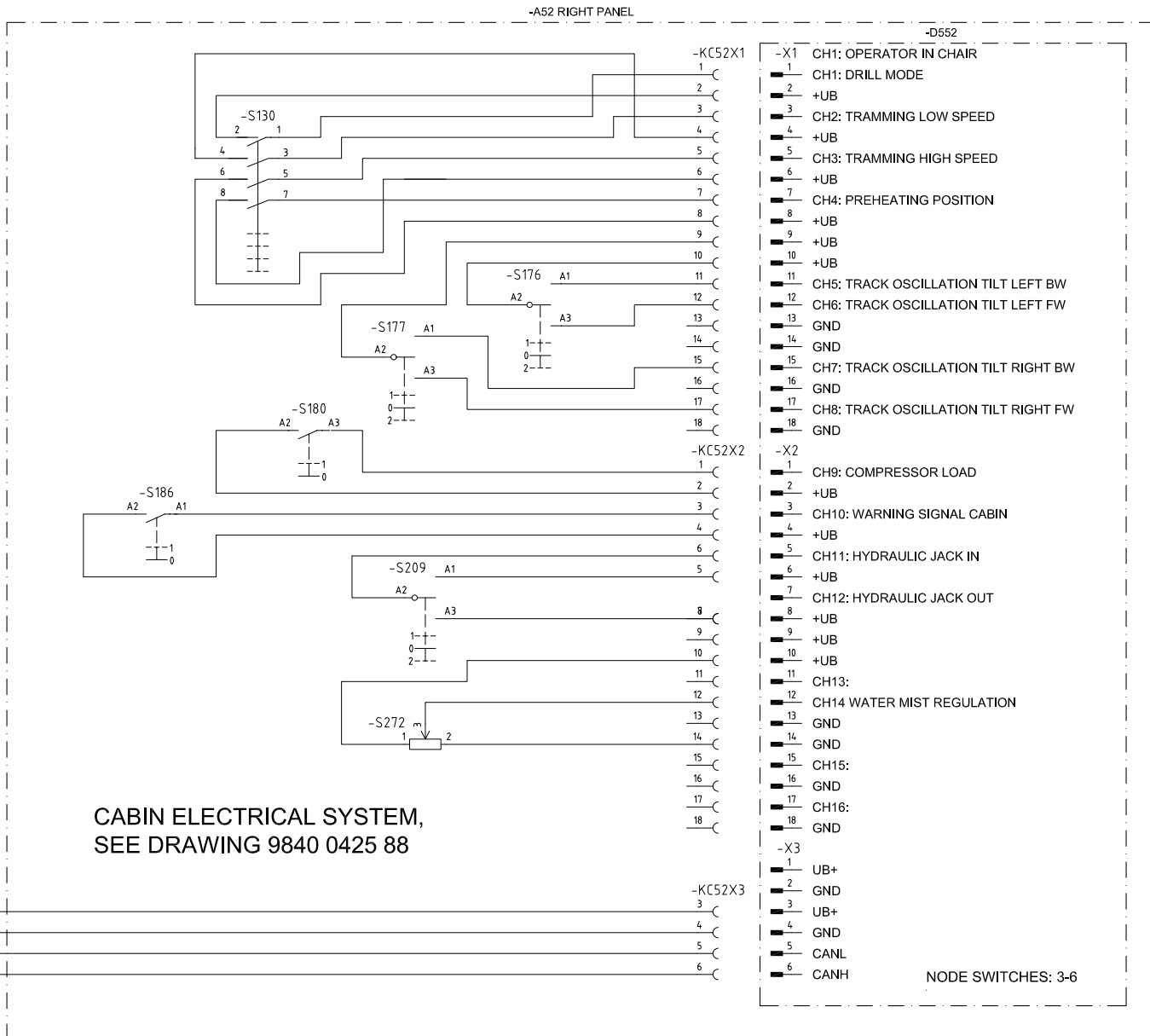
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg		Approver tmgmiin		Type Electrical system		A	
								Wire diagram				Confidentiality class acc.1102 K Internal		Design chd. tmgmasg		Drawing owner TMG		Designation Sheet		21(46)	
								A52 right panel D552				Status Released		Date 2015-11-23		Compare		9840042653		DS	
23		23																			
003		B136 level sensor renamed as B457		TMG1711541		2018-03-27		ipcgdr		ipcgdr		tmgmiin									
Rev.		Pos.		Modified from		Date		Mod.by		Chd.by		Appd.by									

Jahan Compressor

AutoCAD 2010

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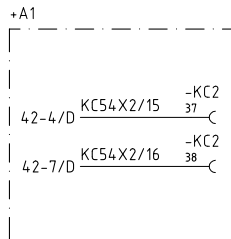
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8

-CABIN

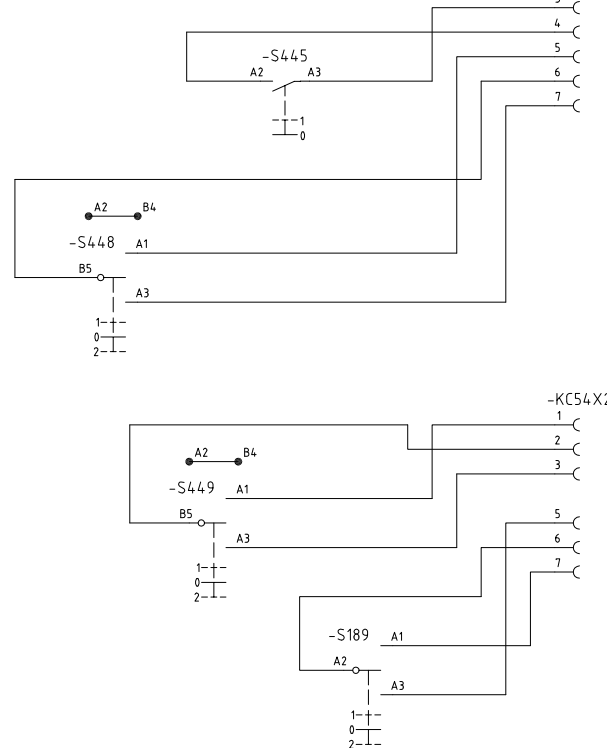
CABIN ELECTRICAL SYSTEM,
SEE DRAWING 9840 0425 88

-D554



KC50X3/6 18-1/F
KC50X3/5 18-1/F
KC50X3/4 18-1/F
KC50X3/3 18-1/F

KC54X3/6 21-1/A
KC54X3/5 21-1/A
KC54X3/4 21-1/A
KC54X3/3 21-2/A



-KC54X1

-KC54X2

-KC54X3

- X1
- 1 CH1:
- 2 +UB
- 3 CH2: TRACK OSCILLATION FLOATING
- 4 +UB
- 5 CH3: WATER MIST MANUAL
- 6 +UB
- 7 CH4: WATER MIST AUTO
- 8 +UB
- 9 +UB
- 10 +UB
- 11 CH5:
- 12 CH6:
- 13 GND
- 14 GND
- 15 CH7:
- 16 GND
- 17 CH8:
- 18 GND
- X2
- 1 CH9: BRUSH GREASING MANUAL
- 2 +UB
- 3 CH10: BRUSH GREASING AUTO
- 4 +UB
- 5 CH11: ENGINE SPEED INCREASE
- 6 +UB
- 7 CH12: ENGINE SPEED DECREASE
- 8 +UB
- 9 +UB
- 10 +UB
- 11 CH13:
- 12 CH14:
- 13 GND
- 14 GND
- 15 CH15: DES ACTIVE
- 16 GND
- 17 CH16:
- 18 GND
- X3
- 1 UB+
- 2 GND
- 3 UB+
- 4 GND
- 5 CANL
- 6 CANH

NODE SWITCHES: 3-7

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							21-21-21-21-		Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.		Drawn tmgmasg	Approved tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram		Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet		22(46)	
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	A52 right panel D554		Status Released		Date 2015-11-23	Compare	9840042653 DS			

9840042653_DS 22(46)

Jahan Compressor

AutoCAD 2010

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KC52X3/5 21-1/F
KC52X3/6 21-1/F
KCC12/1 24-1/A
KCC12/2 24-1/A
KCC12/3 24-1/A
KCC12/4 24-2/A
KCC12/5 24-2/A

06-4/B

24 V/D501

-X50 5.4
-X50 7.4

-D501X1
1
2
3
4

-X1 (POWER INLET)
1 +24VDC
2 +24VDC
3 0V
4 0V

Power supply

-KCC11
1
2
3
4
5

-X3 (CAN IN)
1 SHIELD
2 CAN +
3 CAN -
4 CAN HIGH
5 CAN LOW

-KCC12
1
2
3
4
5

-X2 (CAN)
1 SCR
2 CAN +
3 CAN -
4 CAN HIGH
5 CAN LOW

Aiming device

-X4 (CAN OUT)
1 SCR
2 CAN +
3 CAN -
4 CAN HIGH
5 CAN LOW

-X5 (ID-PLUG)
1 IN 2
2 IN 1
3 GND
4 IN 0
5

D501/X6
1
2
3
4
5
6
7
8

-X6 (RS232)
1 DCD
2 Rx D
3 Tx D
4 DTR
5 GND
6 DSR
7 RTS
8 CTS

Option Certiq

12-2/D PCX3/1
12-2/D PCX3/2
12-2/D PCX3/3
12-2/D PCX3/4
12-2/D PCX3/5
12-2/D PCX3/6
12-2/D PCX3/7
12-2/D PCX3/8

-R510
2 120R 1

CABIN ELECTRICAL SYSTEM,
SEE DRAWING 9840 0425 88

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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram		Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	23(46)
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Display HEC 3		Status Released	Date 2015-11-23	Compare	9840042653 DS	

9840042653_DS

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AutoCAD 2010

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+CABIN

KCC12/1 23-1/E
KCC12/2 23-1/E
KCC12/3 23-1/E
KCC12/4 23-2/E
KCC12/5 23-2/E

CABIN ELECTRICAL SYSTEM,
SEE DRAWING 9840 0425 88

-D169 Sight

T-CONNECTION

-KCC18

-KCC20

-KCC22

-KCC14

-KCC19

WC11

WC8

+A1
X1/100 17-7/E
-XD173 04-7/D
-XD173

WC13

WC9

+FEED

-KCC15

-KCC16

-D171 INCLINOMETER

-KCC17

-R171
120R

IF OPTION D173 IS NOT CHOSEN, CABLE WC9 IS
CONNECTED DIRECTLY FROM KCC15 TO KCC14.

-D173 GPS COMPASS

4 3 2 1

Power supp

5 4 3 2 1

CAN in

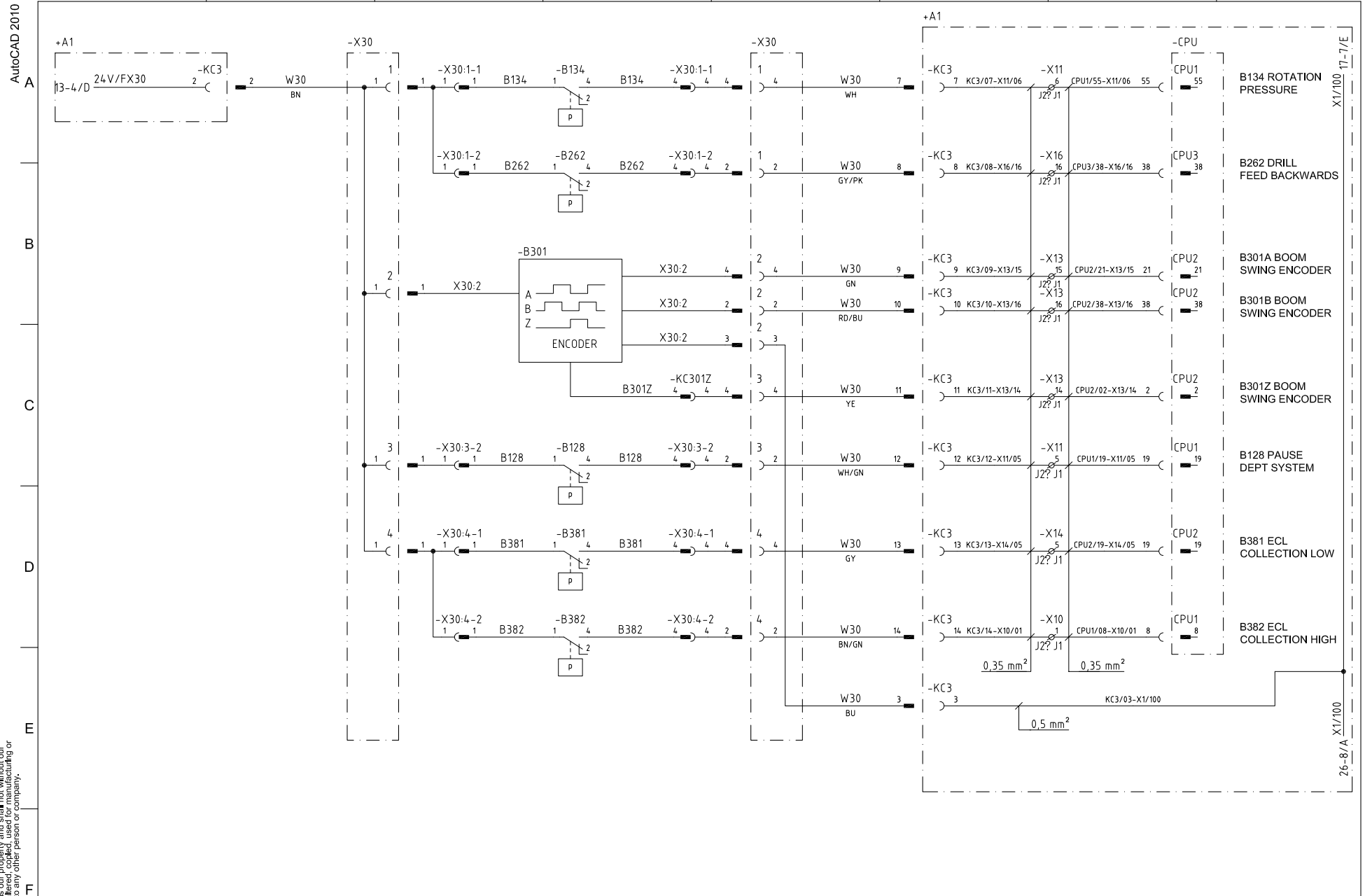
1 2 3 4 5

CAN out

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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.		Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet		24(46)	
Rev.		Pos.		Modified from		Date	Mod.by	Chd.by	Appd.by		Status Released	Date 2015-11-23	Compare		9840042653_DS	

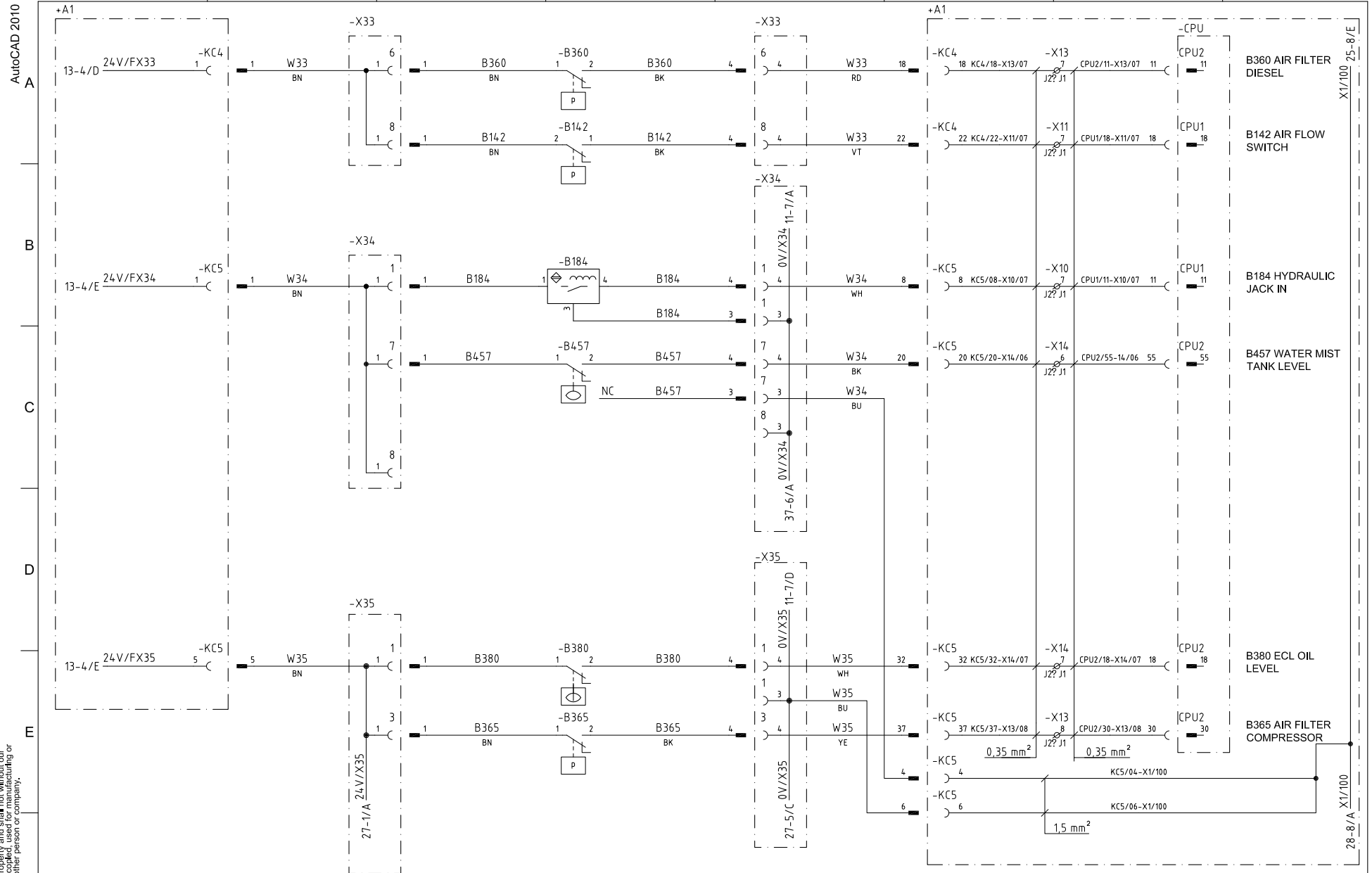
Jahan Compressor



Name				Transf. fr.				Drawn				Approver				Type			
FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Confidentiality class acc. 1102 K				tmgmasg				tmgmiin				Electrical system			
Wire diagram				Internal				tmgmasg				TMG				25(46)			
Input X30				Status				Date				Compare				9840042653_DS			
Rev.				Pos.				2015-11-23											

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Rev.		Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Name	Transf. fr.	Drawn	Approver	Type
003			B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiln	FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F	tmgmasg	tmgmiln	Electrical system
								Wire diagram	Confidentiality class acc.1102 K	Design chd.	Drawing owner	Designation Sheet
								Input X33, X34 and X35	Internal	tmgmasg	TMG	26(46)
									Status	Date	Compare	9840042653_DS
									Released	2015-11-23		



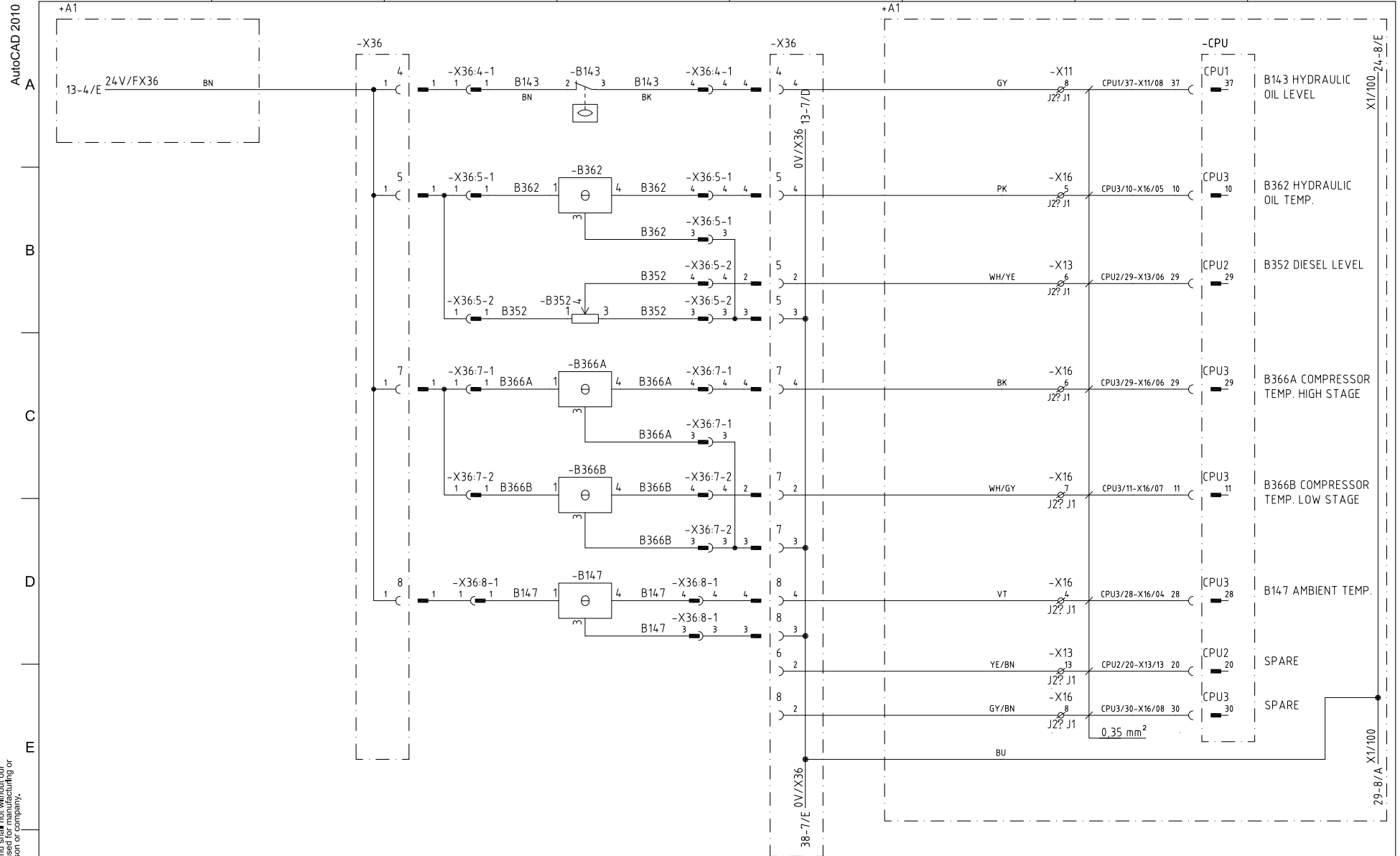
Janani O



E

003	B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiiin	Wire diagram	 Corhoenital class aoc,1102 K Design chg Internal tmgmsq TMG Drawing owner Status Released Date 2015-11-23 Compare	Designation	Sheet	27(46)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Input X35			9840042653	DS	

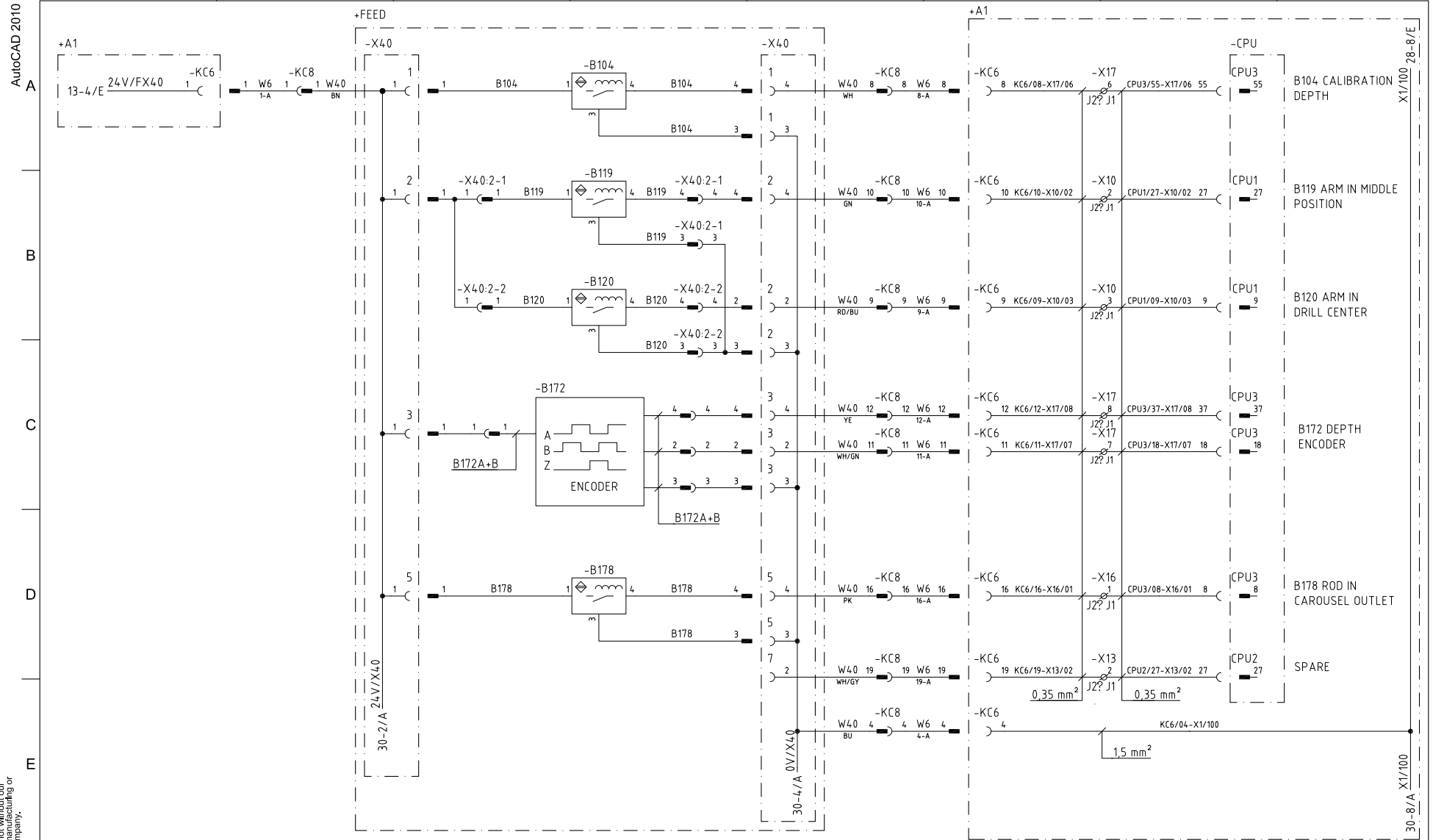
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg	Approved tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation	Sheet	28(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Input X36	Status Released		Date 2015-11-23	Compare	9840042653 DS			

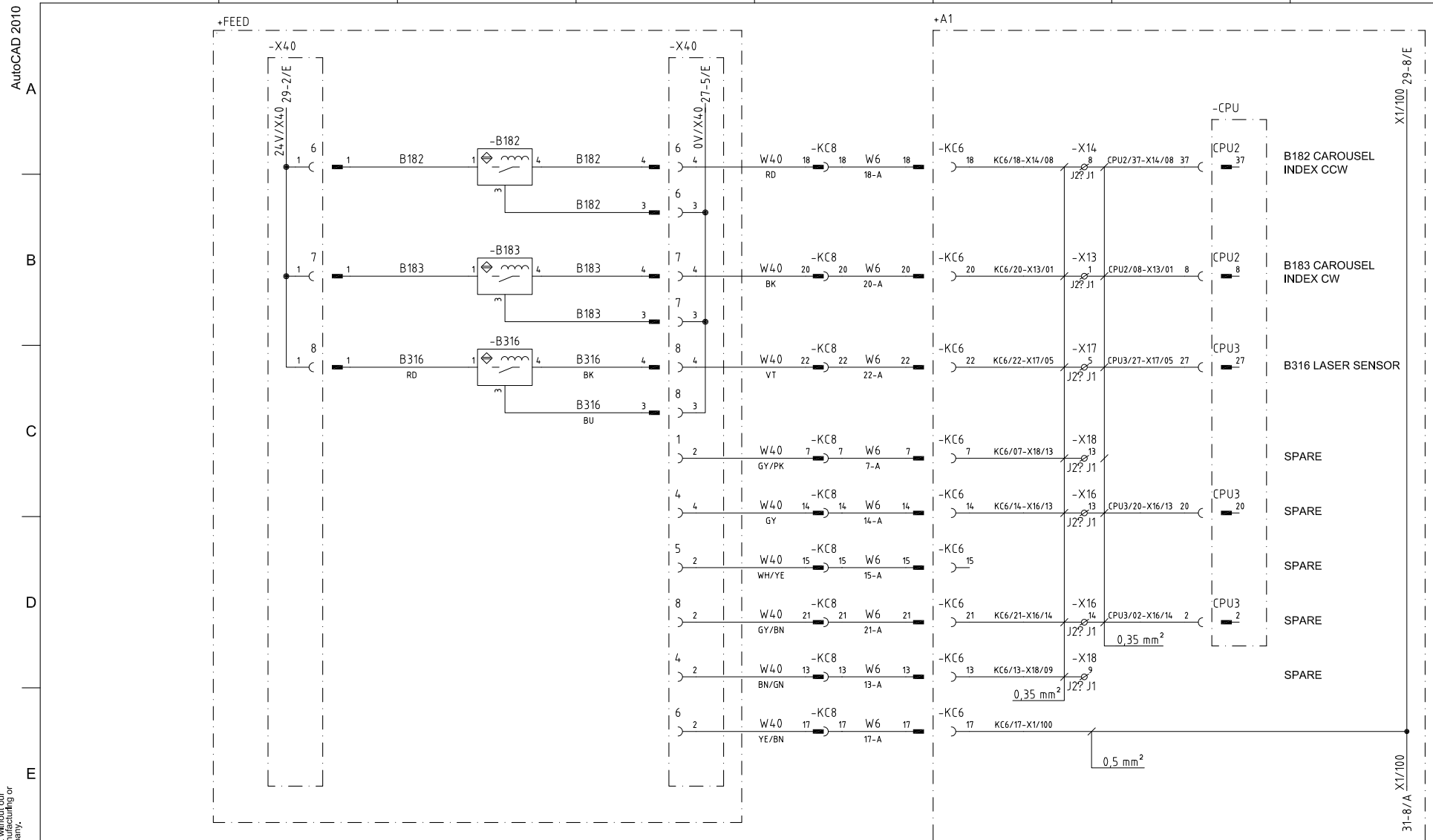
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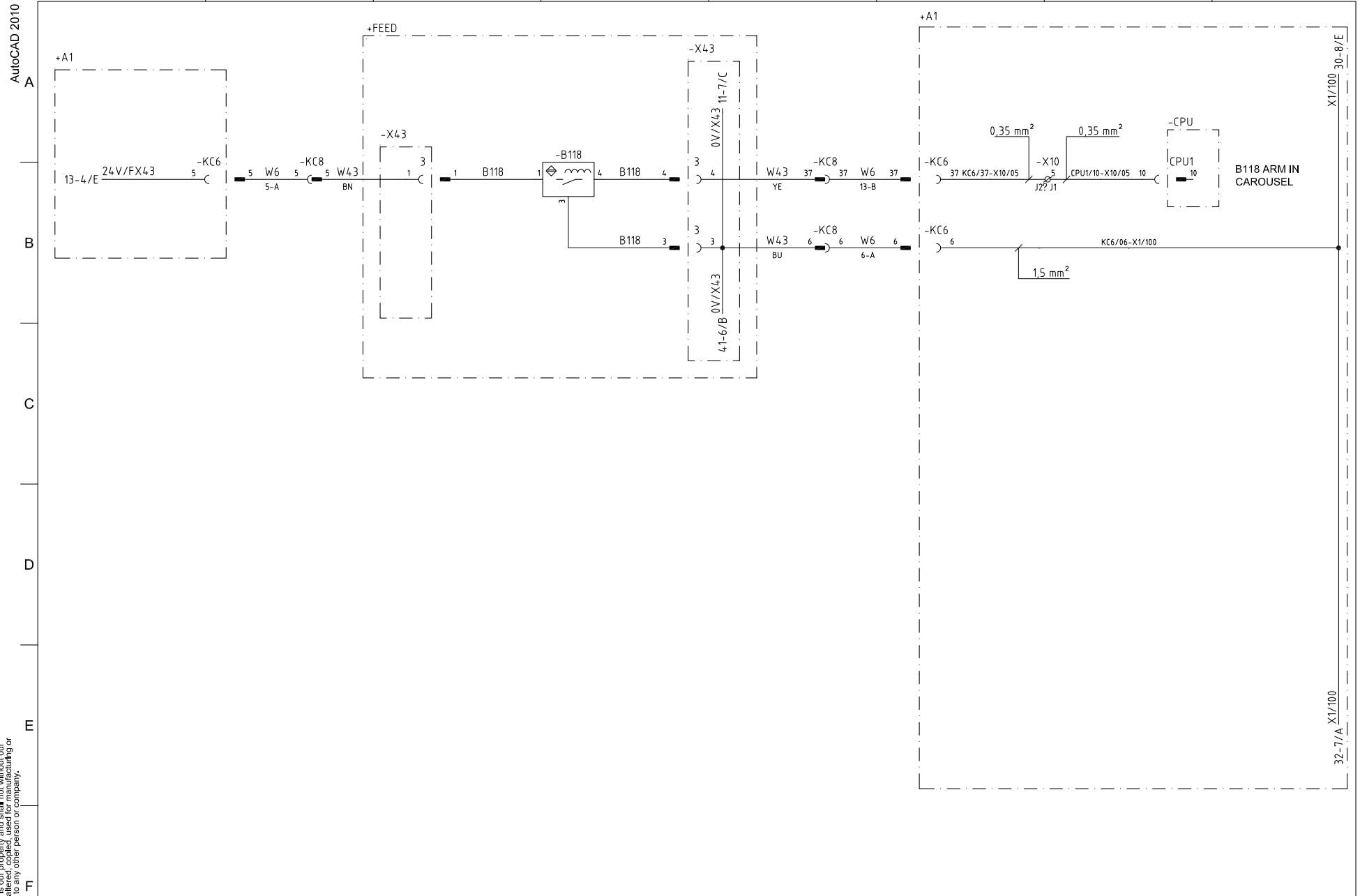
								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3		
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmin	Wire diagram		Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation	Sheet	29(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Input X40		Status Released	Date 2015-11-23	Compare	9840042653 DS			

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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Confidentiality class acc.1102 K		Design chd, tmgmasg	Drawing owner TMG	Designation	Sheet	30(46)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Internal		Status Released	Date 2015-11-23	Compare	9840042653	DS
								Wire diagram						
								Input X40						

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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F			Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram	Confidentiality class acc.1102 K Internal		Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	31(46)	
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	Input X43	Status Released		Date 2015-11-23	Compare	9840042653 DS		

Jahan Compressor

AutoCAD 2010

A

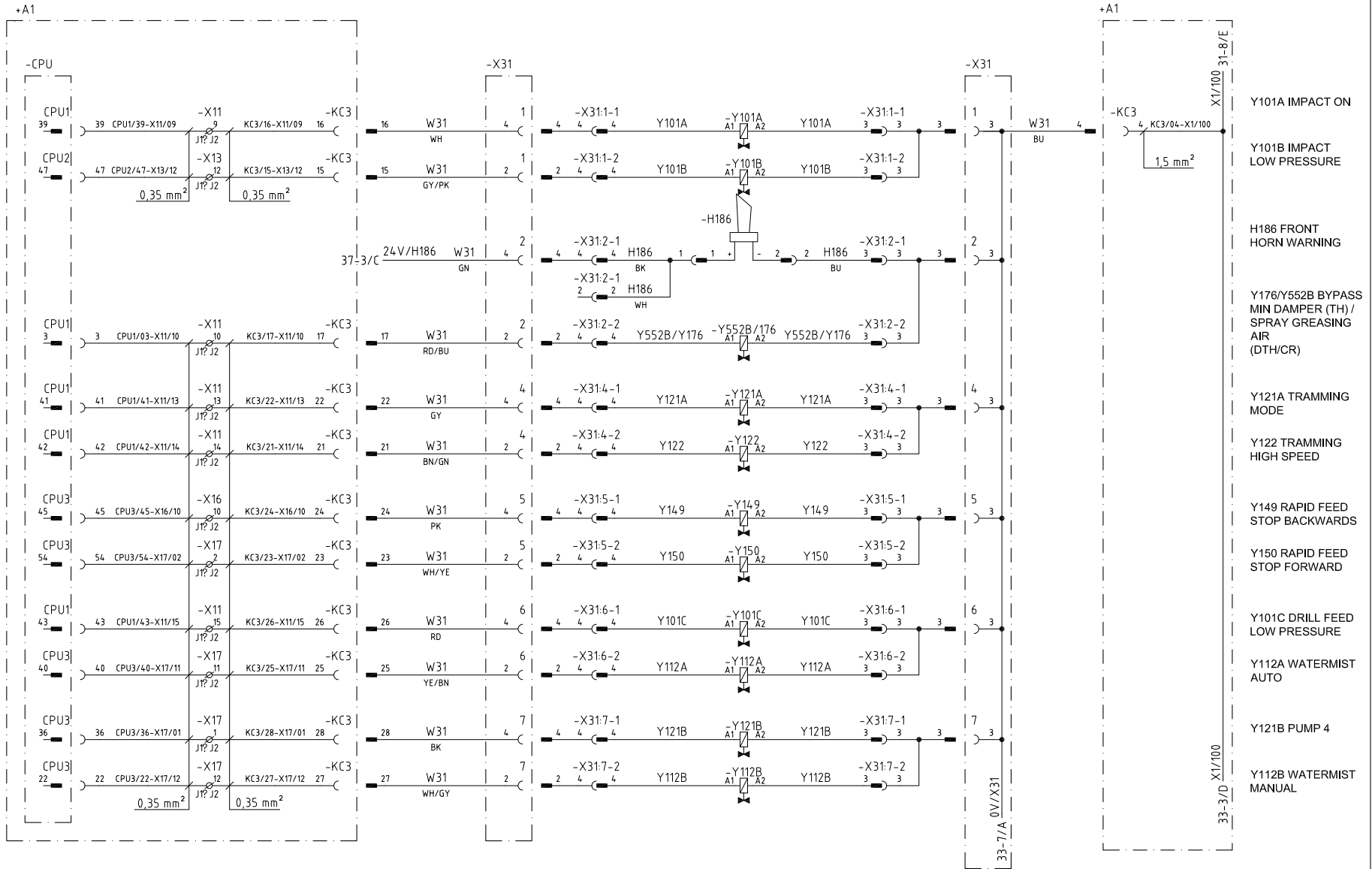
B

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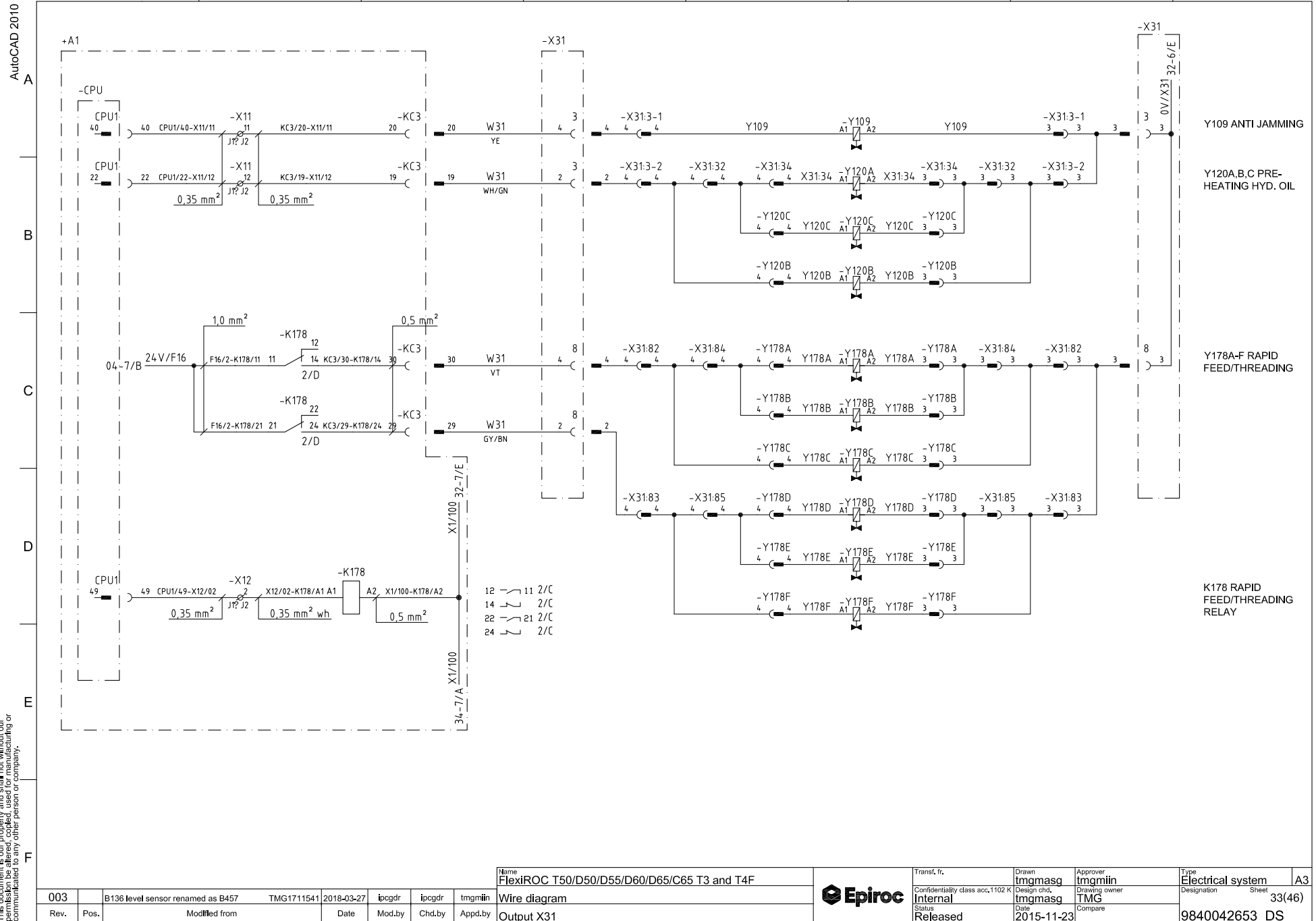
F



Name				Transf. fr.		Drawn	Approver	Type
FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Confidentiality class acc.1102 K		tmgmasg	tmgmiin	Electrical system
Wire diagram				Internal		tmgmasg	TMG	32(46)
Output X31				Released		2015-11-23	Compare	9840042653_DS
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin		
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by		

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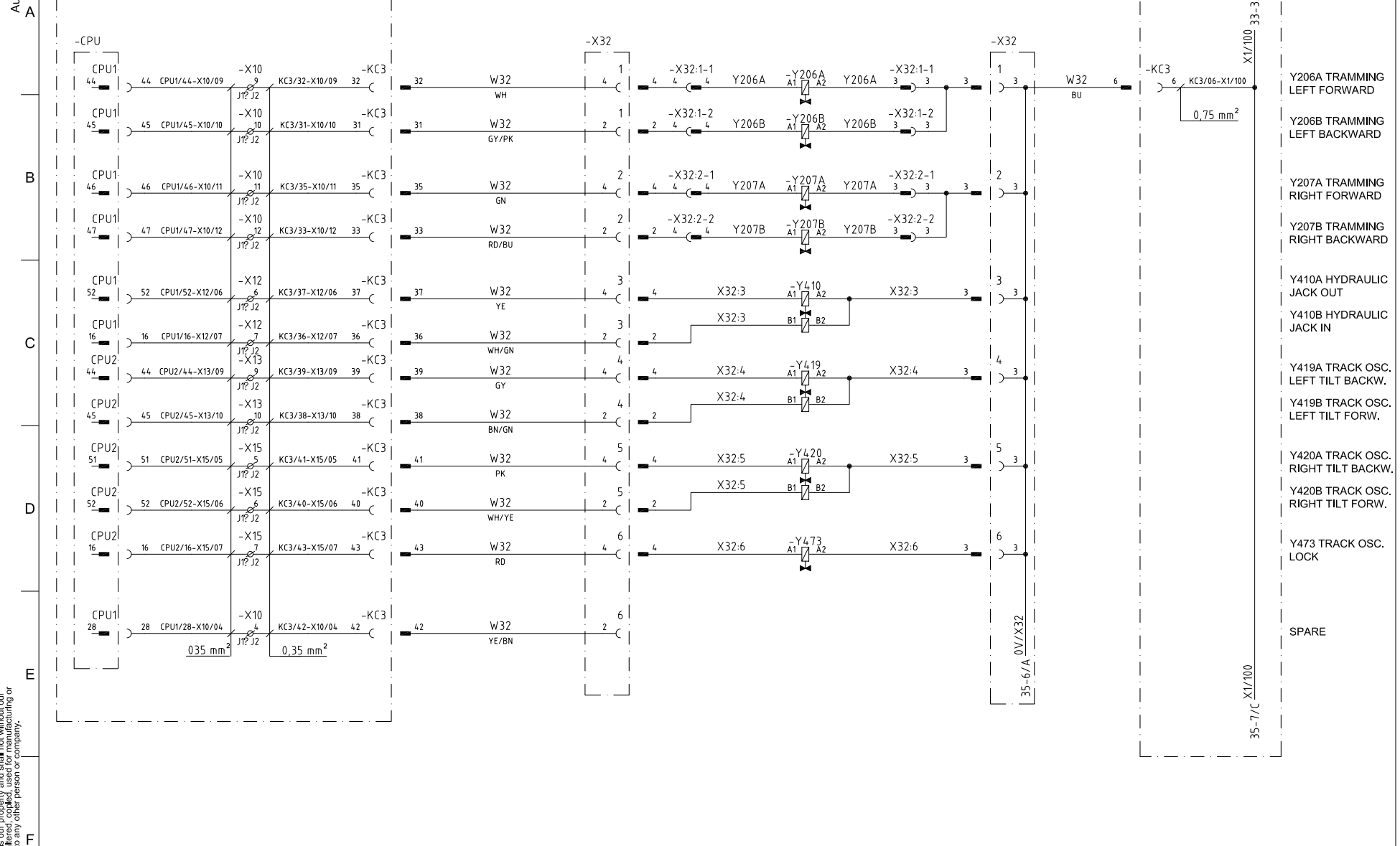
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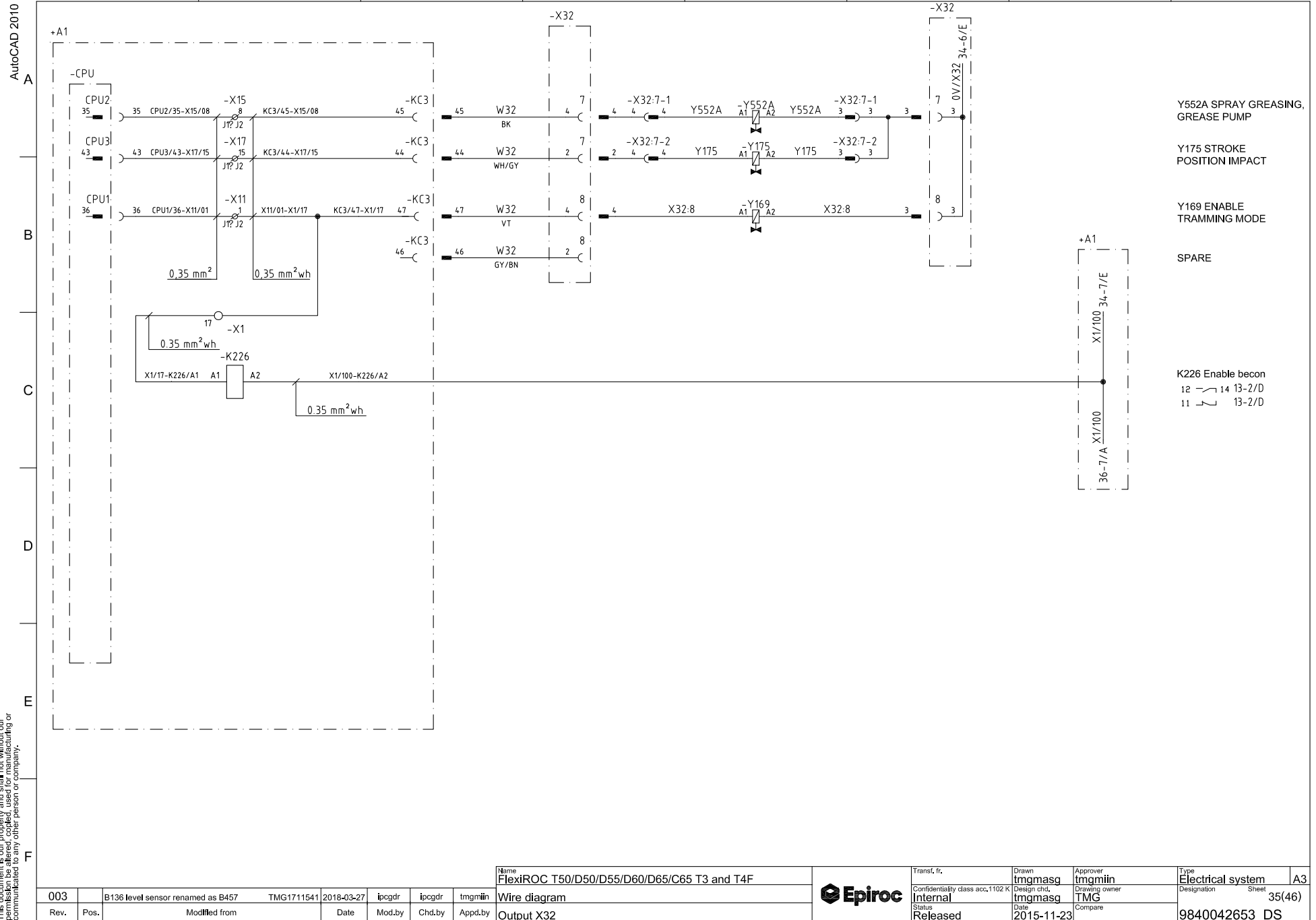


Name				Transf. fr.		Drawn	Approver	Type	Electrical system	A3
FlexIROC T50/D50/D55/D60/D65/C65 T3 and T4F				Confidentiality class acc.1102 K		tmgmasg	tmgmiin	Designation		
Wire diagram				Internal		tmgmasg	TMG	Sheet		
Output X32				Released		2015-11-23	Compare	34(46)		
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin			9840042653_DS	
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by				

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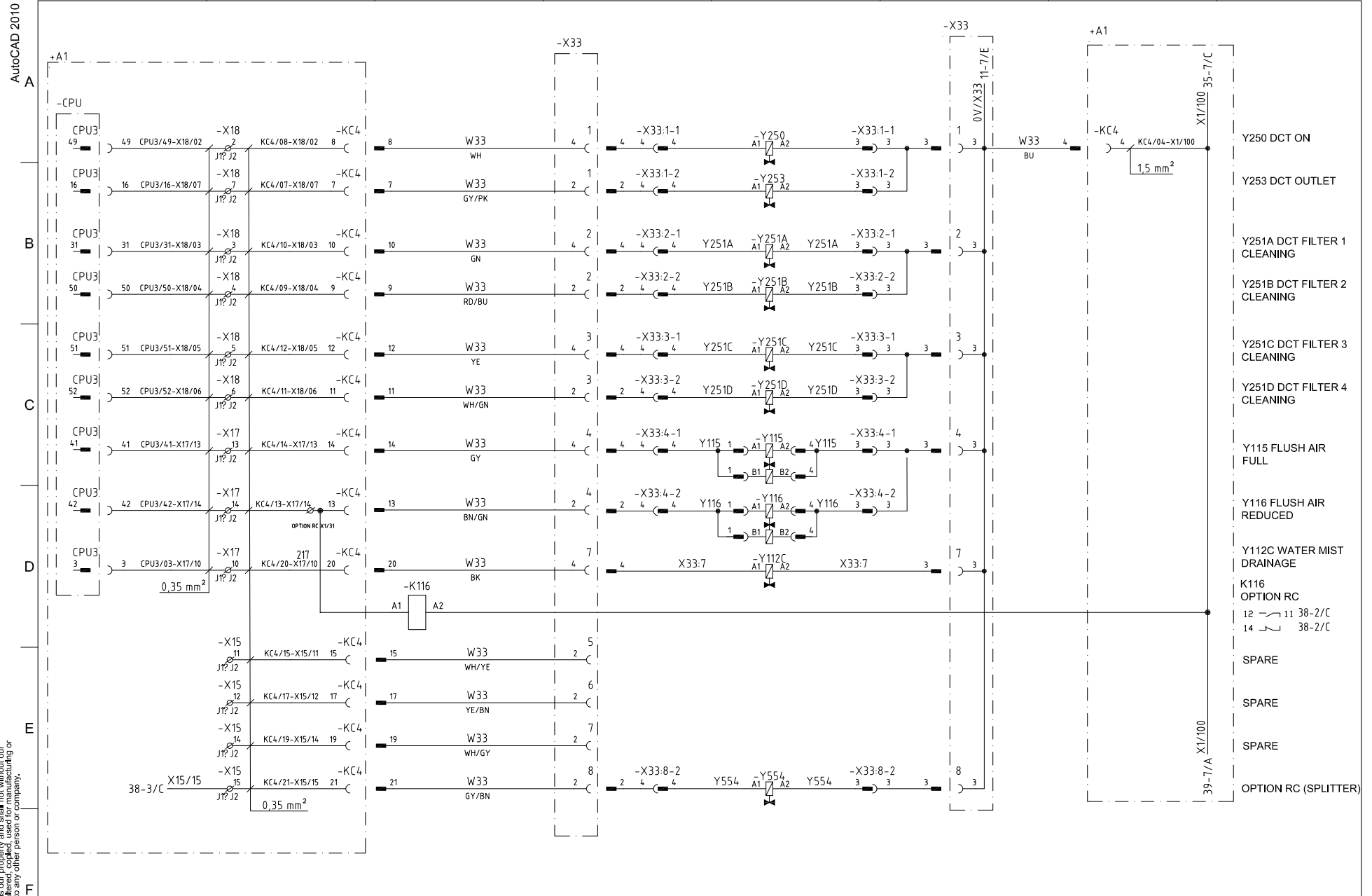


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Name				Transf. fr.		Drawn	Approver	Type
FlexIROC T50/D50/D55/D60/D65/C65 T3 and T4F				Confidentiality class acc.1102 K		tmgmasg	tmgmiin	Electrical system
Wire diagram				Internal		tmgmasg	TMG	36(46)
Output X33				Released		2015-11-23	Compare	9840042653_DS

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AutoCAD 2010

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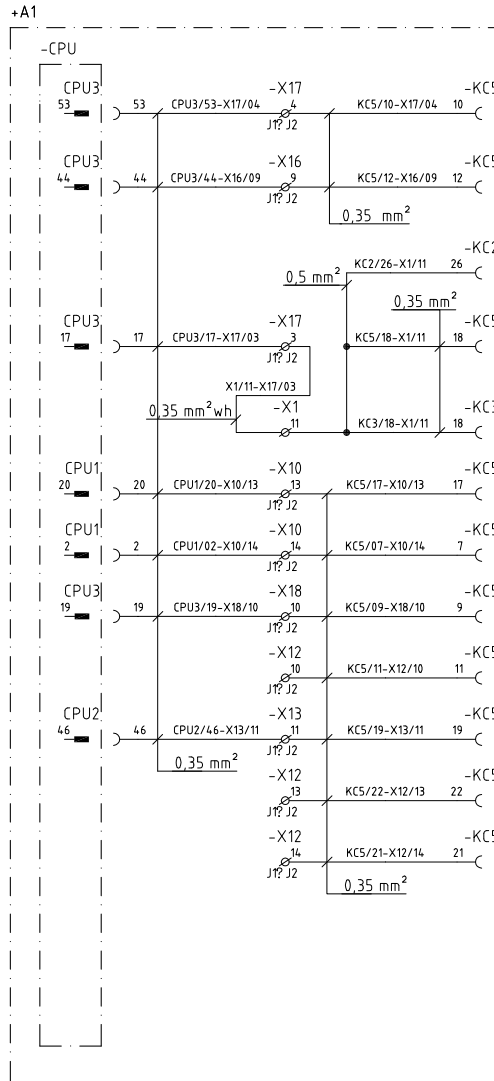
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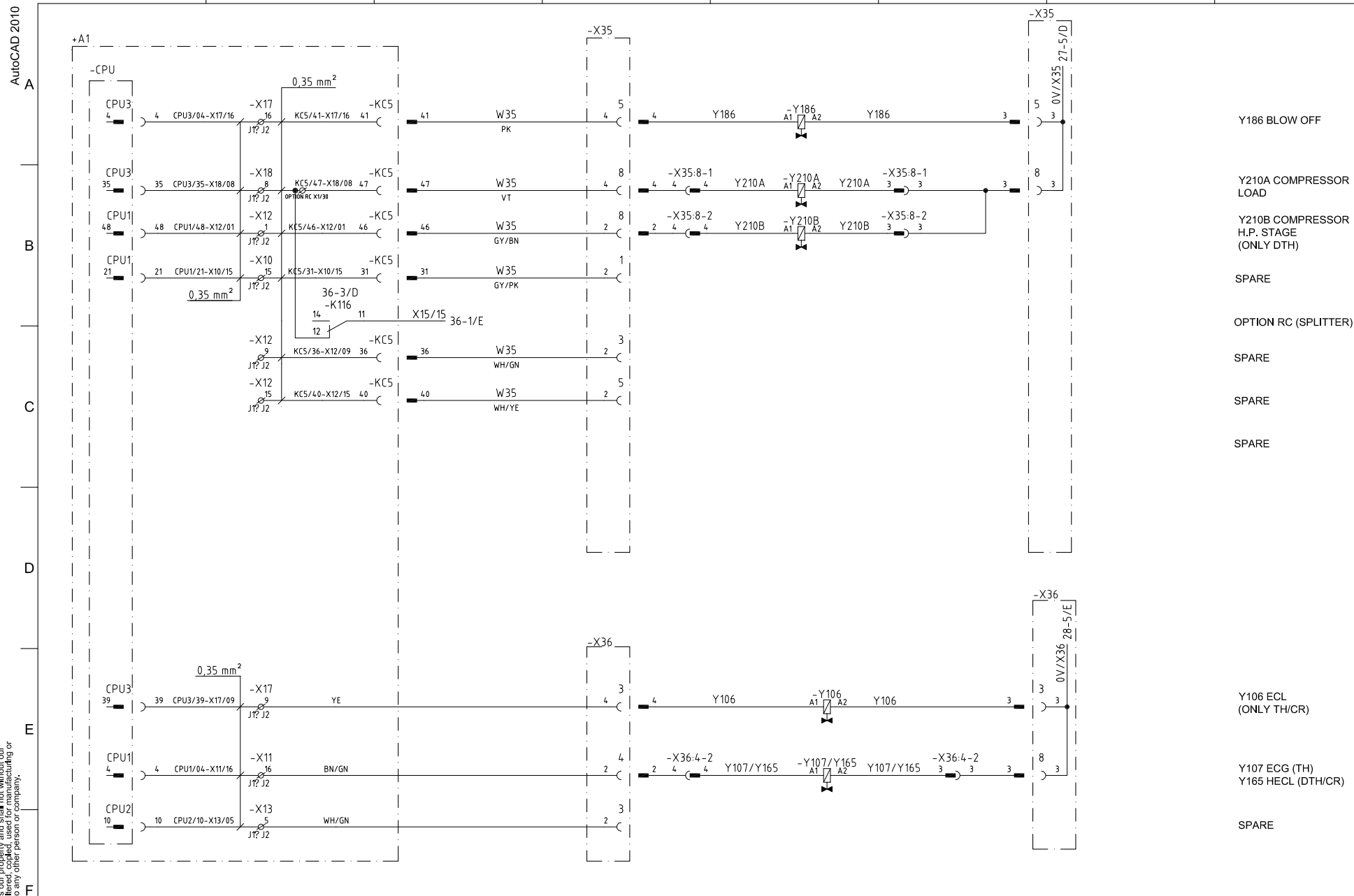
- Y501 COOLING FAN DIESEL MOTOR
- Y501 COOLING FAN HYD. OIL AND COMPRESSOR OIL
- H185 REVERSE AND WARNING SIGNAL
- SPARE
- SPARE
- SPARE
- Y112D WATER MIST WATER FLOW
- SPARE
- SPARE

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Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Design chd. tmgmasg	Drawing owner TMG	37(46)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released	Date 2015-11-23	Designation Sheet 9840042653_DS
Wire diagram				Output X34					



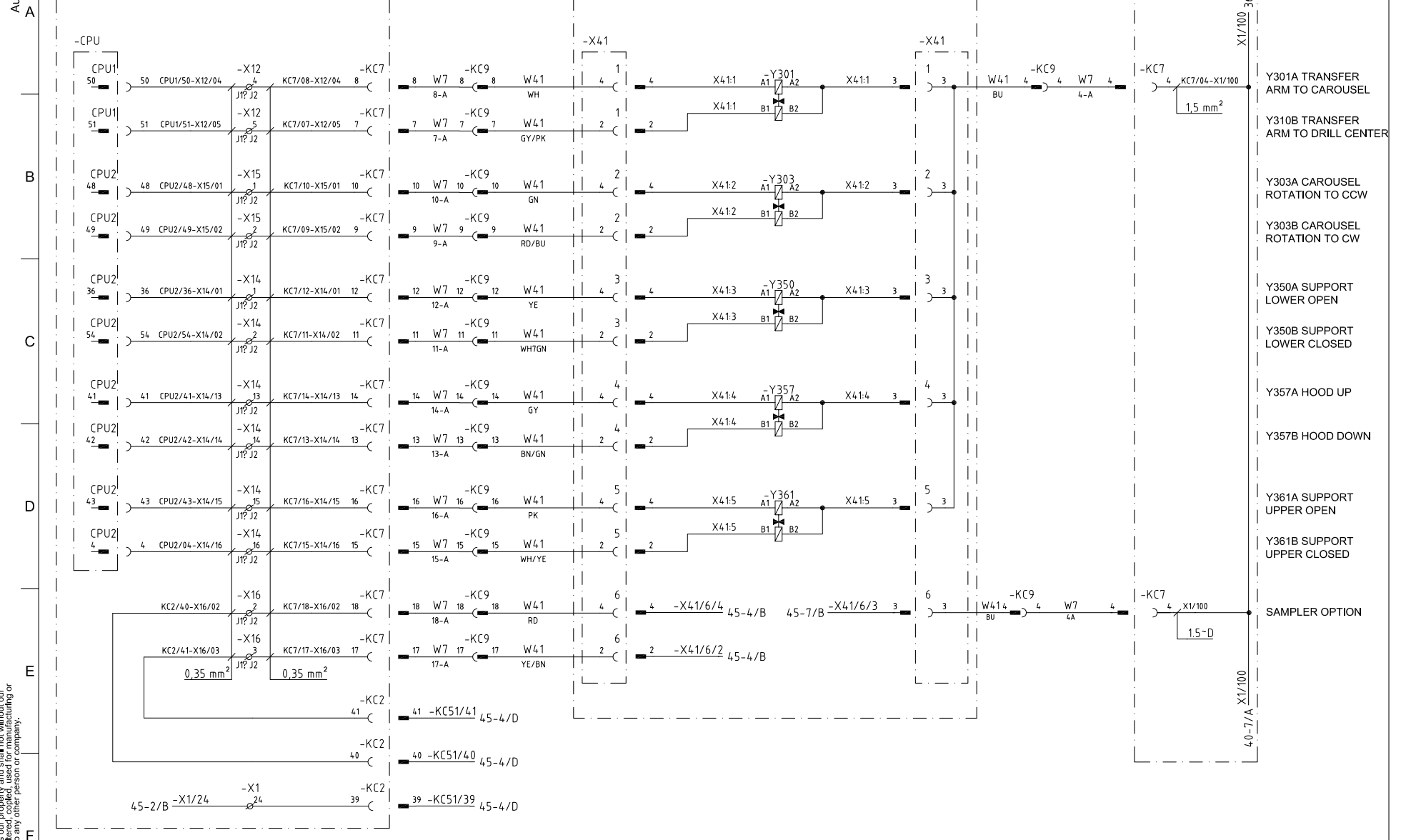
Variant 00



								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F					Transf. fr.		Drawn tmgmasg		Approver tmgmiin		Type Electrical system		A3									
003		B136 level sensor renamed as B457		TMG1711541		2018-03-27		ipcgdr		ipcgdr			tmgmiin		Wire diagram				Confidentiality class acc.1102 K Internal		Design chd, tmgmasg		Drawing owner TMG		Designation		Sheet		38(46)	
Rev.		Pos.		Modified from		Date		Mod.by		Chd.by			Appd.by		Output X35 and X36				Status Released		Date 2015-11-23		Compare		9840042653 DS					

Jahan Compressor

AutoCAD 2010



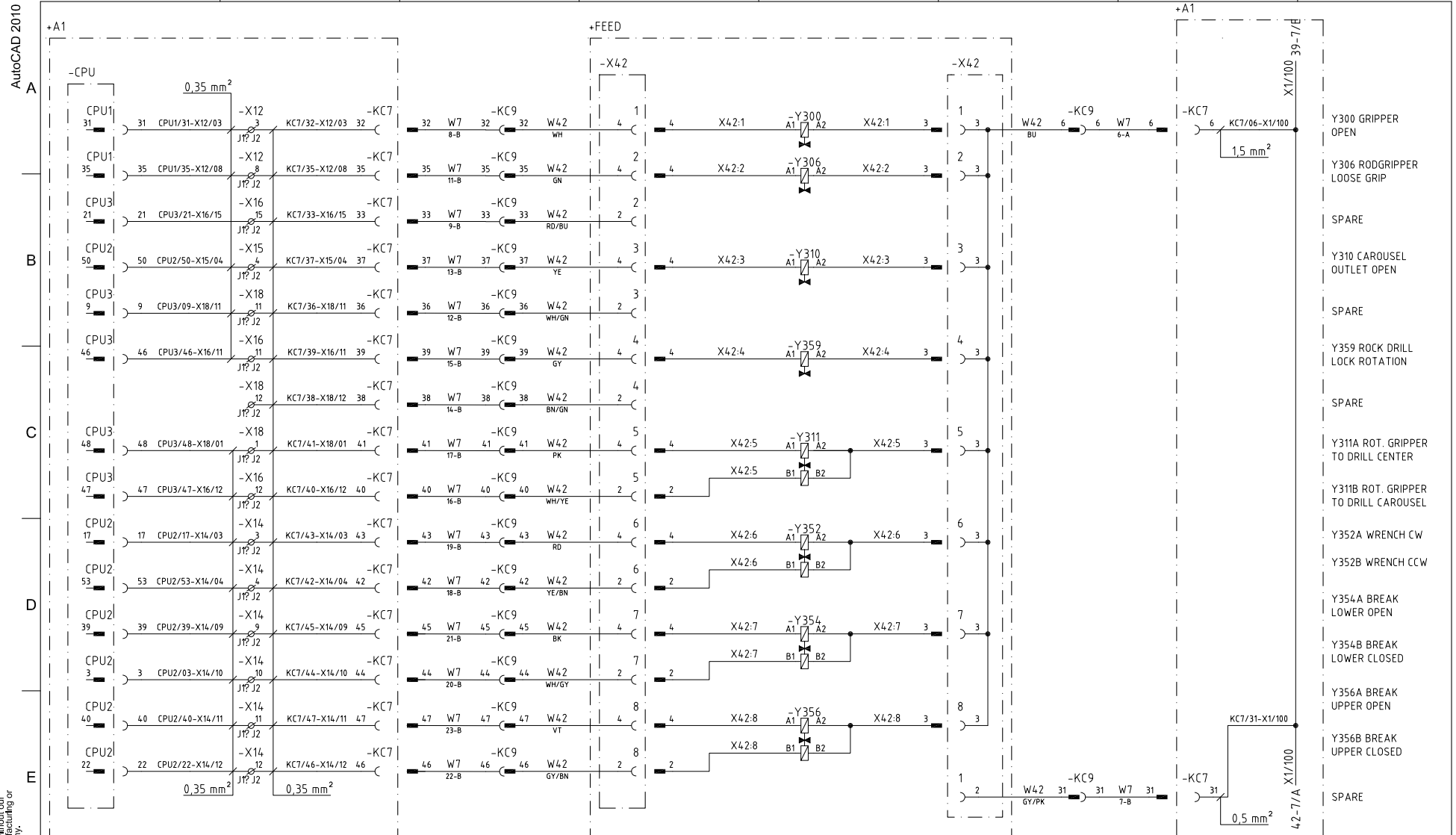
Name FlexIROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmngmasg	Approver tmngmiin	Type Electrical system	A3
Wire diagram				Confidentiality class acc. 1102 K Internal		Design chd. tmngmasg	Drawing owner TMG	Designation 39(46)	Sheet
Output X41				Status Released		Date 2015-11-23	Compare	9840042653_DS	

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003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmngmiin
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by



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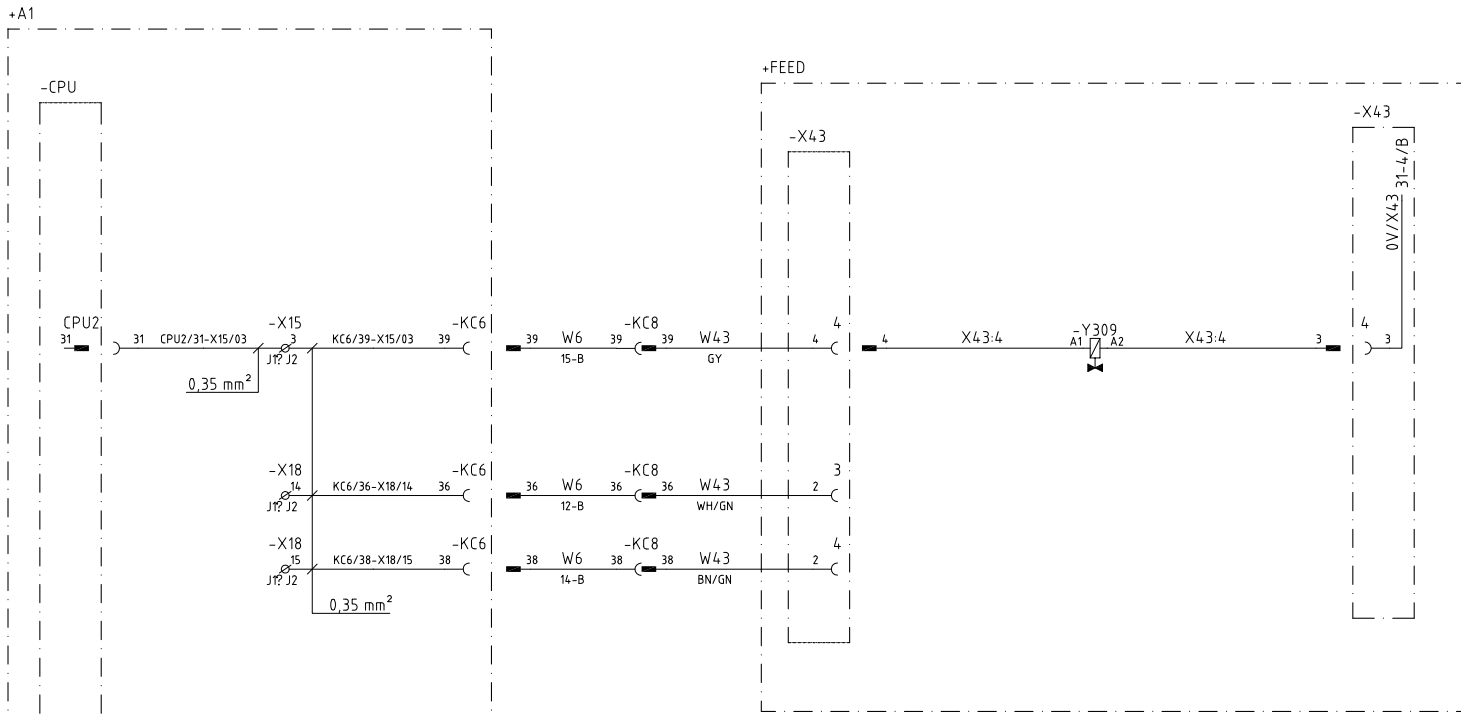


Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F									Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin		Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	40(46)
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by		Appd.by	Status Released	Date 2015-11-23	Compare	9840042653 DS
Wire diagram									Output X42 feed				

Jahan Compressor

AutoCAD 2010

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Y309 SLEEVE
RETAINER

SPARE

SPARE

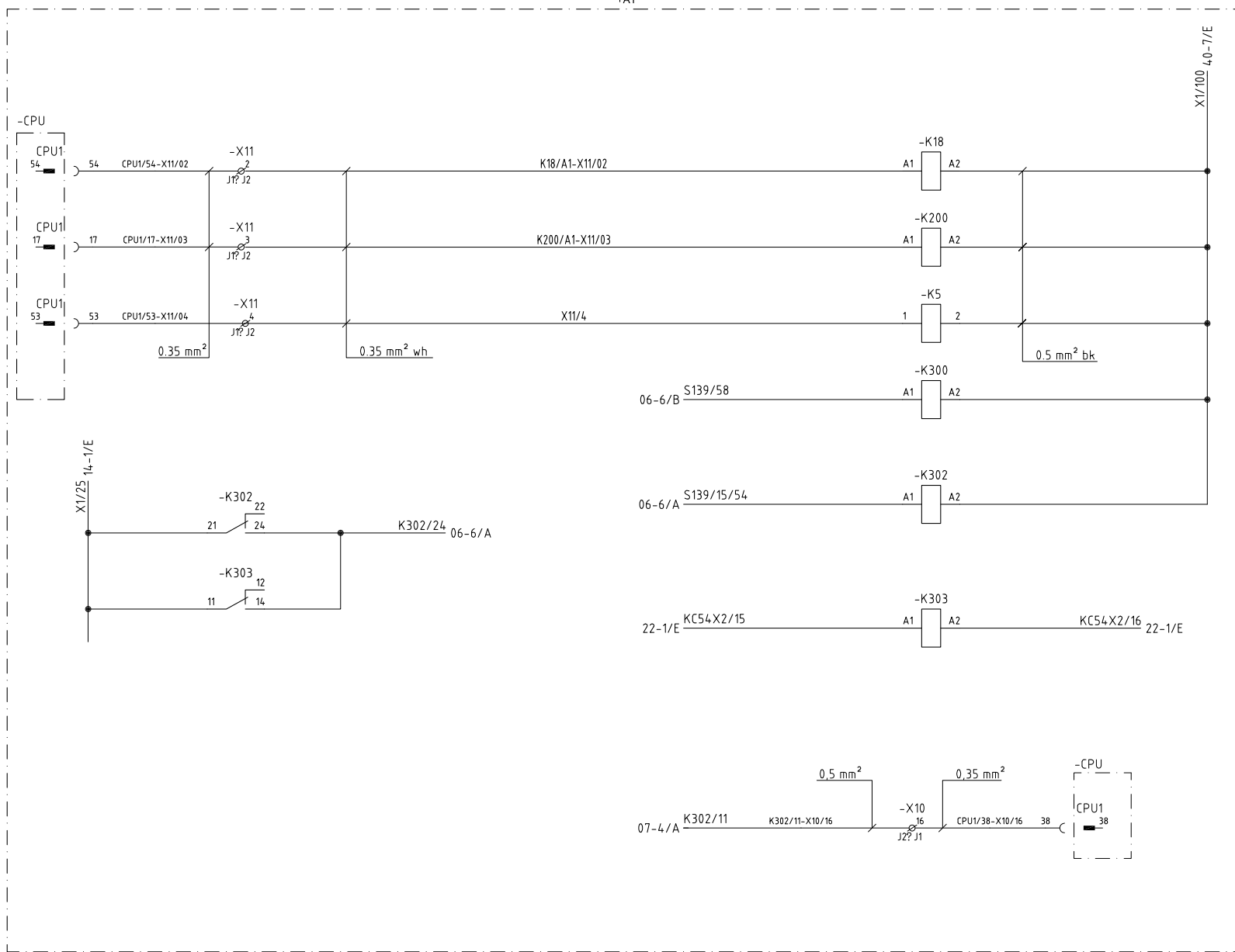
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3	
003		B136 level sensor renamed as B457		TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin		Wire diagram	Confidentiality class acc.1102 K	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	41(46)
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by		Output X43	Status Released	Date 2015-11-23	Compare	9840042653 DS	

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AutoCAD 2010

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K18 DIESEL
REFUELING PUMP
12 11 05-3/C
14 05-3/C

K200 REMOTE
SHUT DOWN
12 11 07-4/B
14 07-4/B
24 21 08-2/E
22 08-2/E

K5 Starter relay
3 5 03-3/D

K300 DELAYED
ENGINE SHUTDOWN
(DES) OVERRIDE
14 11 08-1/E
12 08-1/E

K302 IGNITION
14 11 07-4/A
12 07-4/A
24 21 42-2/D
22 42-2/D

K303 DES ACTIVE
14 11 42-2/D
12 42-2/D

IGNITION SIGNAL
(K302)

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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg	Approved tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram				Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	42(46)	
Rev.	Pos.	Modified from			Date	Mod.by	Chd.by	Appd.by	Relay in A1			Status Released	Date 2015-11-23	Compare	9840042653 DS		

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AutoCAD 2010

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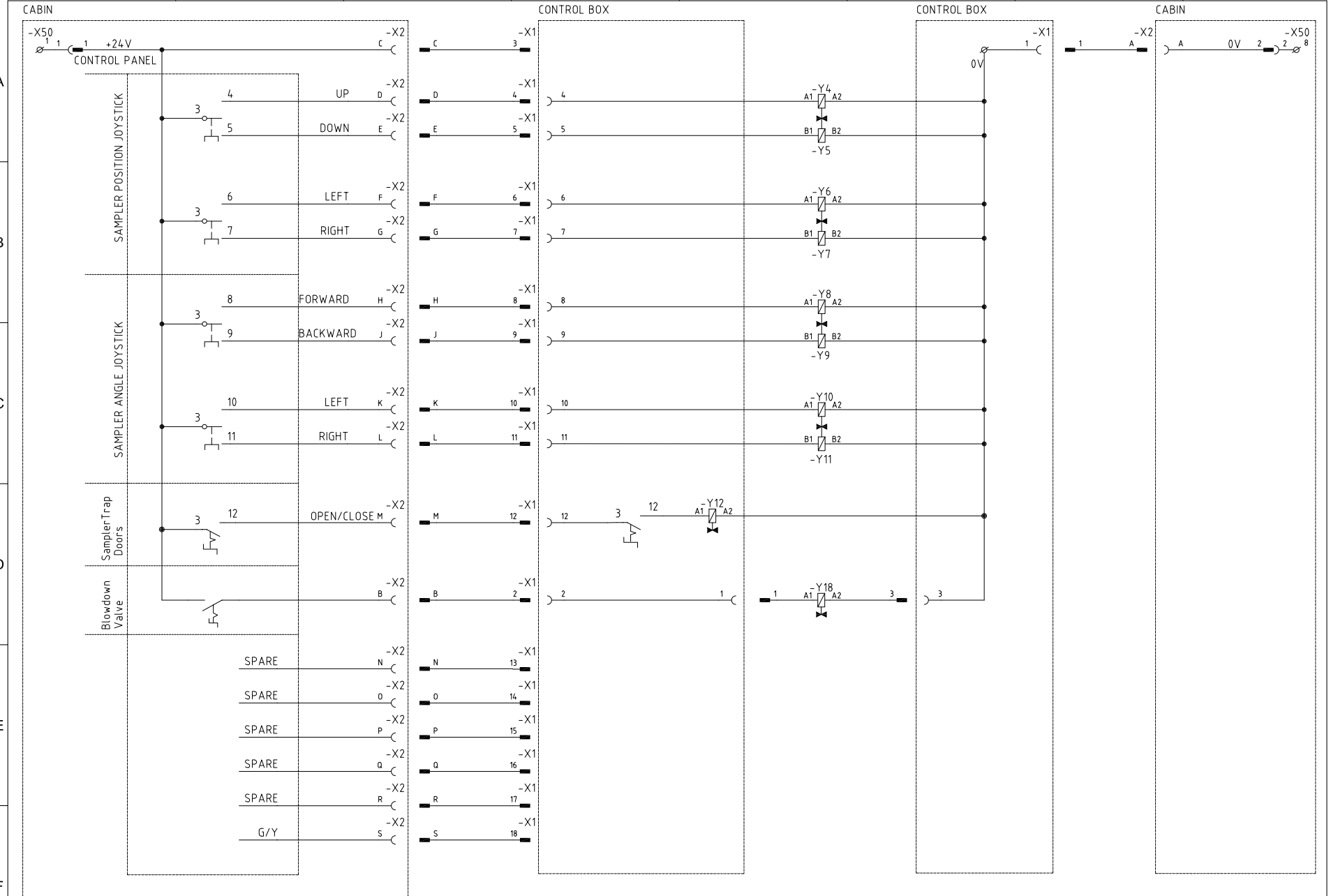
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								Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F					Transf. fr.		Drawn tmgmasg		Approved tmgmiin		Type Electrical system		A3			
003		B136 level sensor renamed as B457		TMG1711541		2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram					Confidentiality class acc.1102 K		Design chd. tmgmasg		Drawing owner TMG		Designation Sheet		43(46)	
Rev.	Pos.	Modified from				Date	Mod.by	Chd.by	Appd.by	RC kit Riffle					Status Released		Date 2015-11-23		Compare		9840042653		DS	

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AutoCAD 2010

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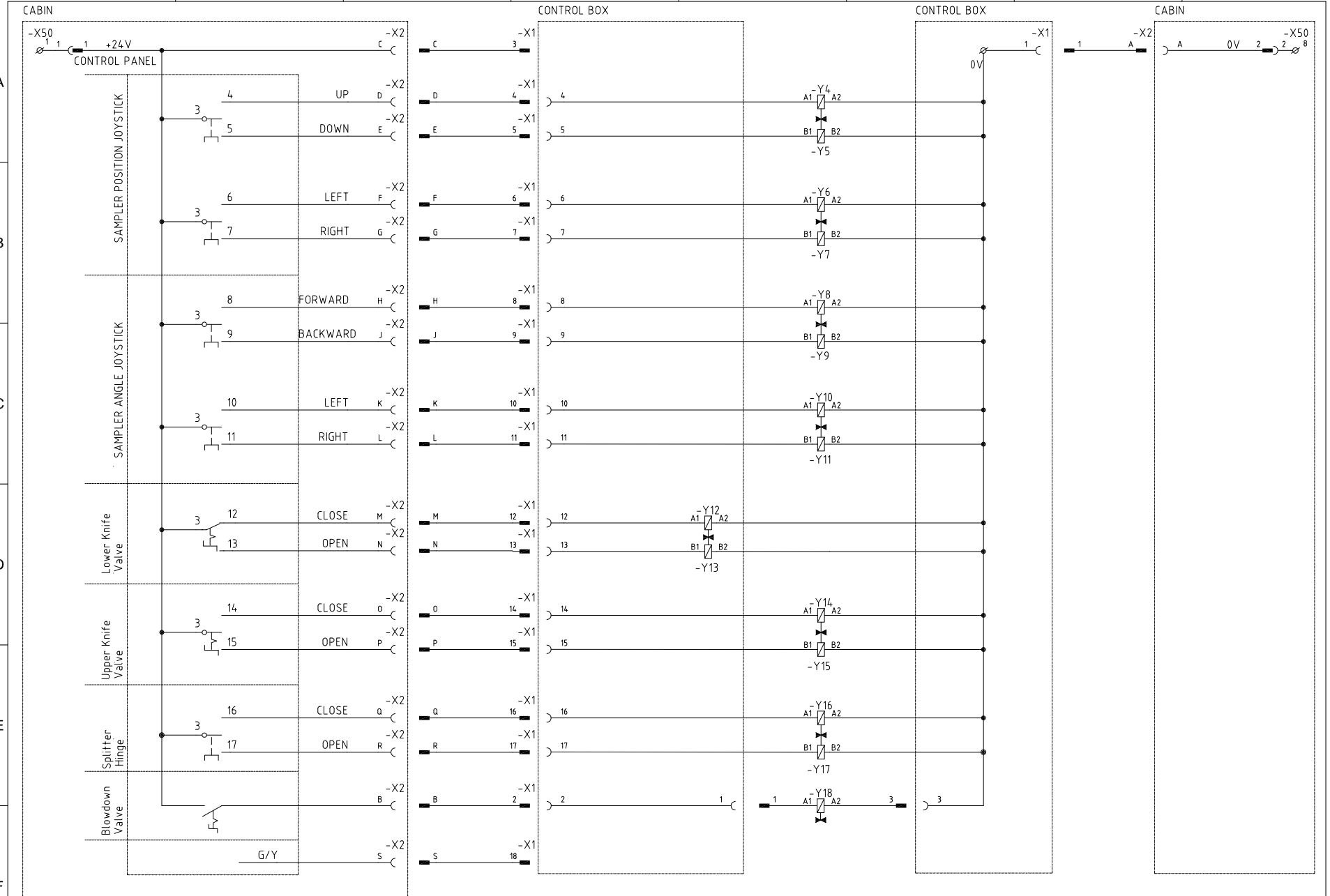
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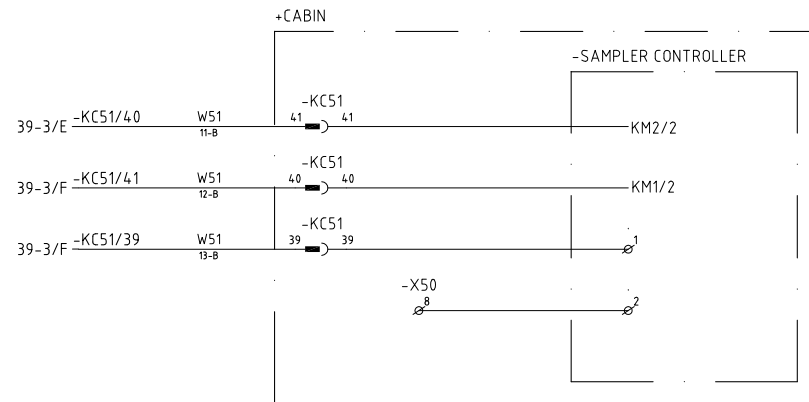
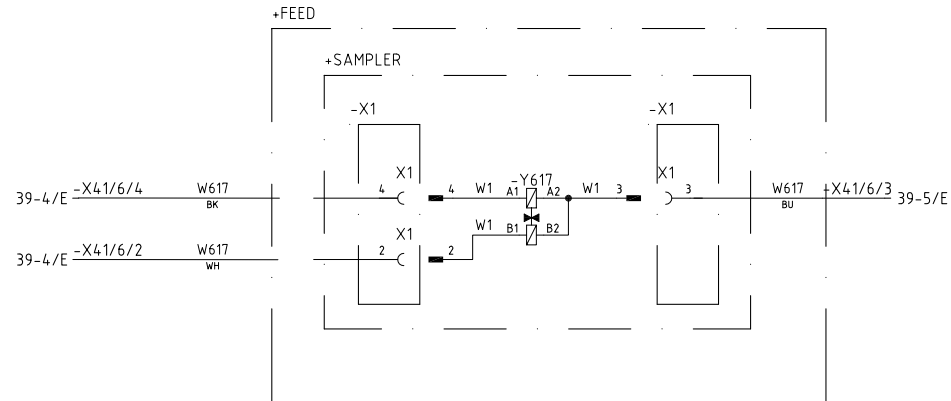
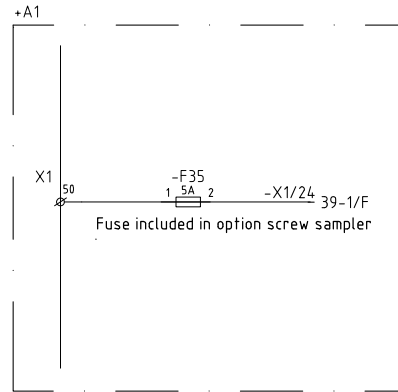


003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	ipcgdr	ipcgdr	tmgmiin	Wire diagram		Transf. fr.	Drawn	Approved	Type
Rev.		Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	RC kit Cone		Confidentiality class acc.1102 K Internal	Design chd.	Drawing owner	Designation
										Status	Date	Compare	Sheet
										Released	2015-11-23		44(46)
													8940042653_DS

Jahan Compressor

AutoCAD 2010

A
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C
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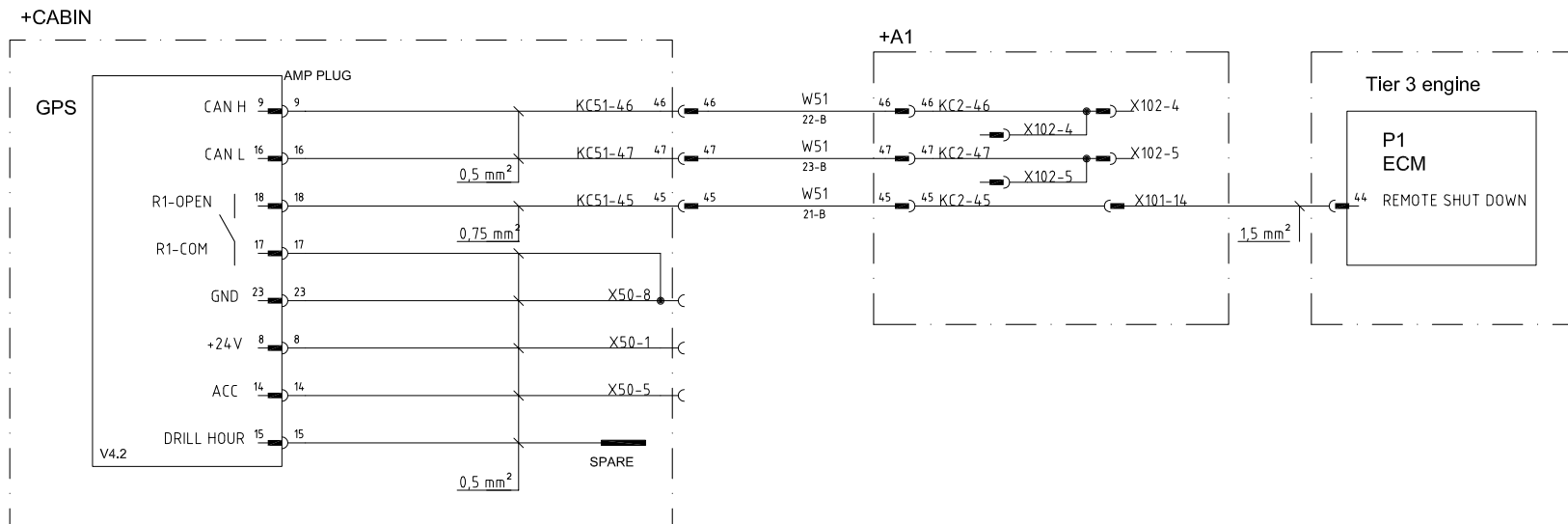
This document is our property and shall not without our permission be altered, copied, used for manufacturing or communicated to any other person or company.

Name FlexiROC T50/D50/D55/D60/D65/C65 T3 and T4F				Transf. fr.		Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003	B136 level sensor renamed as B457	TMG1711541	2018-03-27	lpcgdr	lpcgdr	tmgmiin	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet 45(46)
Rev.	Pos.	Modified from	Date	Mod.by	Chd.by	Appd.by	Status Released	Date 2015-11-23	Compare 9840042653_DS



Confidentiality class acc.1102 K	Design chd. tmgmasg	Drawing owner TMG	Type Electrical system	A3
Status Released	Date 2015-11-23	Compare 9840042653_DS	Designation Sheet 45(46)	

CHINA GPS OPTION SCHEMATIC ONLY TIER 3



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								Name FlexIROC T50/D50/D55/D60/D65/C65 T3 and T4F		Transf. fr.	Drawn tmgmasg	Approver tmgmiin	Type Electrical system	A3
003		B136 level sensor renamed as B457	TMG1711541	2018-03-27	lpcgdr	lpcgdr	tmgmlln	Wire diagram		Confidentiality class acc.1102 K Internal	Design chd. tmgmasg	Drawing owner TMG	Designation Sheet	46(46)
Rev.	Pos.	Modified from		Date	Mod.by	Chd.by	Appd.by	GPS System Option (CHINA)		Status Released	Date 2015-11-23	Compare	9840042653 DS	

Hydraulic Diagram
LIST OF CONTENTS

Part no	Description	Remarks	Page
9840042618	HYDR. SCHEDULE	HYDRAULIC SYSTEM	86 - 99

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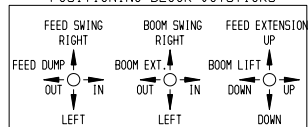
PUMPS

DISPLACEMENT (cc)	PRESSURE (bar)
FLEXIROC D50, D55, D60 / D65	FLEXIROC D50, D55, D60 / D65
PUMP 1 - 140 cc / 140 cc	250 / 250
PUMP 2 - 65 cc / 65 cc	170 / 170
PUMP 3 - 37 cc / 37 cc	170 / 170
PUMP 4 - 23 cc / 23 cc	250 / 250
PUMP 5 - 16 cc / 19 cc	207 / 207
PUMP 6 - 16 cc / 19 cc	207 / 207
OPTION - HIGH AMBIENT TEMPERATURE	
PUMP 5 - 23 cc / 25 cc	225 / 225
PUMP 6 - 23 cc / 25 cc	225 / 225

COOLING FANS

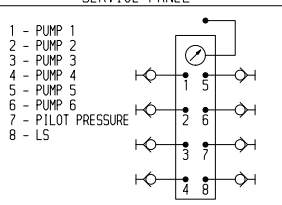
COOLER	DISPLACEMENT (cc)	PRESSURE (bar)
COMPRESSOR/HYDRAULICS	19	207
ENGINE WATER/ATAC	19	207
OPTION - HIGH AMBIENT TEMPERATURE		
COMPRESSOR/HYDRAULICS	23	225
ENGINE WATER/ATAC	23	225

POSITIONING BLOCK JOYSTICKS

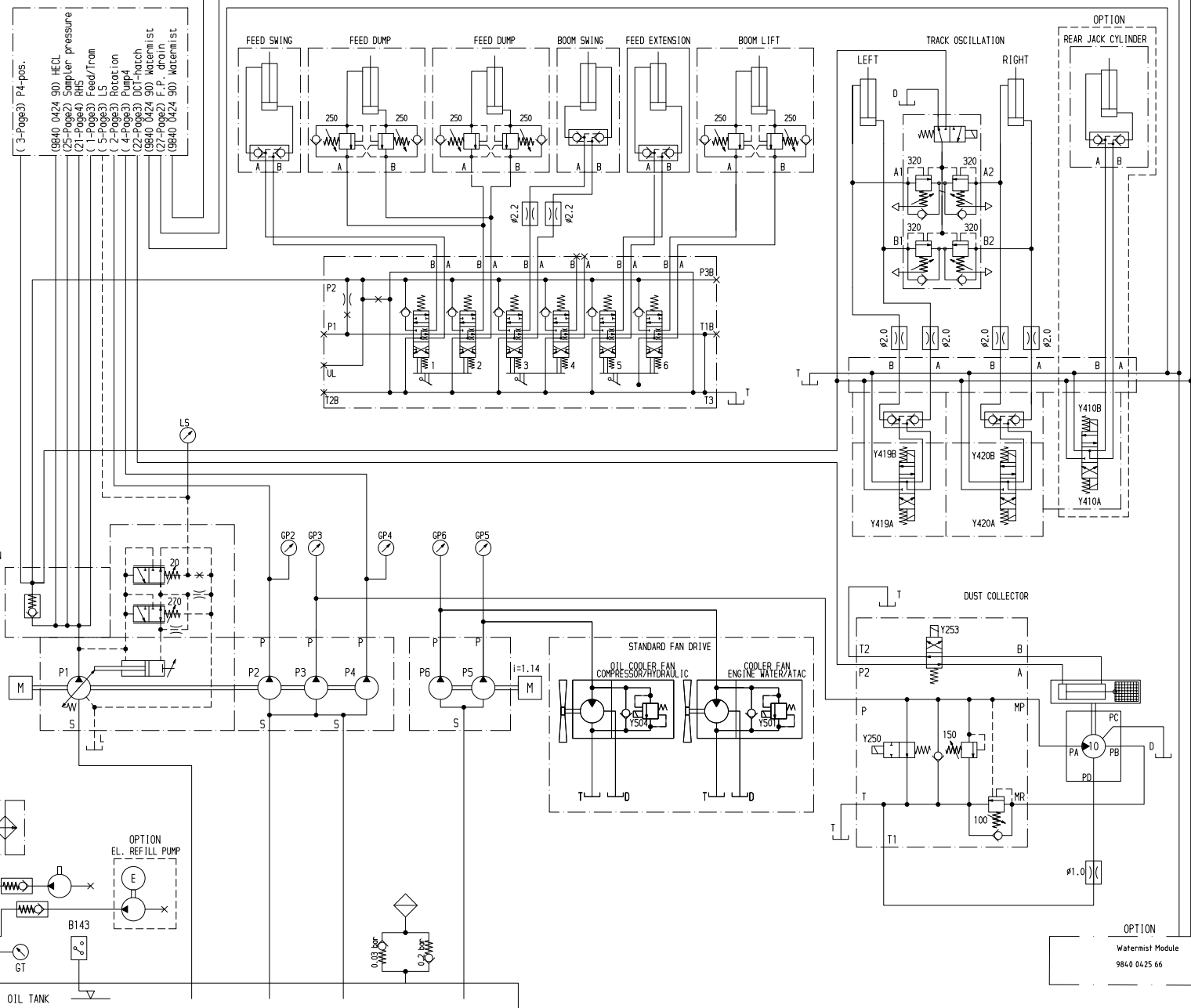
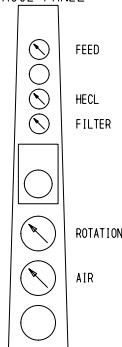


FEED SWING AND FEED DUMP;
DIRECTIONS RELATED TO FEED SPIKE MOVEMENT.

SERVICE PANEL



GAUGE PANEL

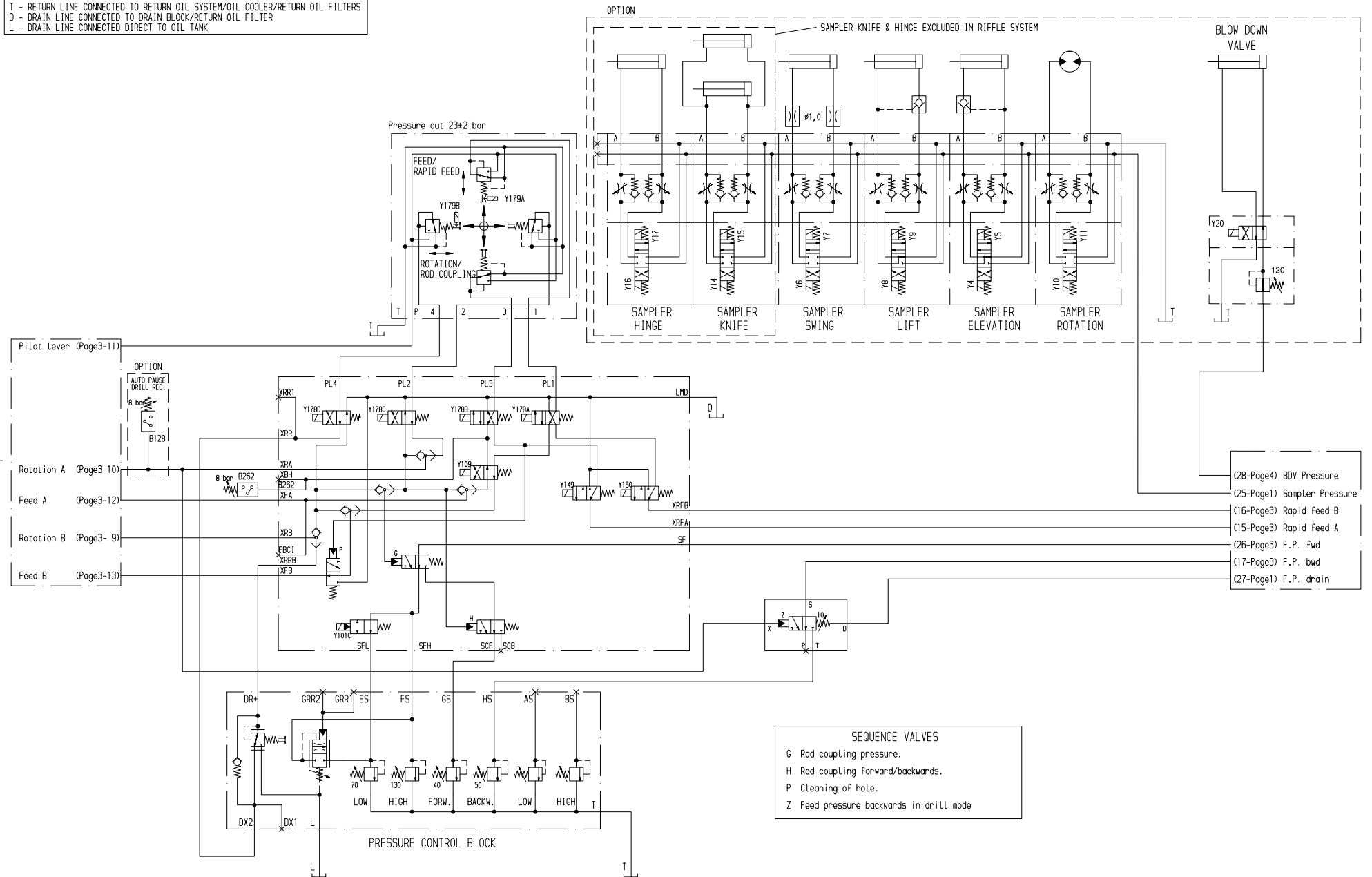


RETURN LINES:
T - RETURN LINE CONNECTED TO RETURN OIL SYSTEM/OIL COOLER/RETURN OIL FILTERS
D - DRAIN LINE CONNECTED TO DRAIN BLOCK/RETURN OIL FILTER
L - DRAIN LINE CONNECTED DIRECT TO OIL TANK

005		Track motors changed	TMG1612327	2016-02-09	tmgrmn	tmgrmk	tmgrmn
Rev.	Pos.	Modified from		Date	Mod by	Chk by	App by

[illegible]

RETURN LINES:
T - RETURN LINE CONNECTED TO RETURN OIL SYSTEM/OIL COOLER/RETURN OIL FILTERS
D - DRAIN LINE CONNECTED TO DRAIN BLOCK/RETURN OIL FILTER
L - DRAIN LINE CONNECTED DIRECT TO OIL TANK



005		Track motors changed	TMO1812327	2018-02-09	Ingren	trngren	trngren
Rev.	Pos.	Modified from		Date	Mod by	Chd by	App by

Item ProdROD D50/D55/D60/D65	Trans./N Trans./N class acc.103°C	Drawn Imagic	Approved Imagic	Type Hydraulic System	A1
Overview		Internal Transm	Control Transm	Design 02(14)	
HYDRAULIC DIAGRAM	Released 2013-11-27	Compare	9840042618 DS		

Jahan Compressor

RETURN LINES
 T - RETURN LINE CONNECTED TO RETURN OIL SYSTEM/OIL COOLER/RETURN OIL FILTERS
 D - DRAIN LINE CONNECTED TO DRAIN BLOCK/RETURN OIL FILTER
 L - DRAIN LINE CONNECTED DIRECT TO OIL TANK

ROTATION

Rotation A
 (10-Page2)
 Rotation B
 (9-Page2)
 (3-Page1) P4-pos.
 (22-Page1) DCI-hatch
 (11-Page2) P1 Lot Lever
 (12-Page2) Feed A
 (13-Page2) Feed B
 (15-Page2) Rapid feed A
 (16-Page2) Rapid feed B

FEED MOTOR

2099cc

LEFT TRAMMING MOTOR

RIGHT TRAMMING MOTOR

80 bar
 B134

GR

80 bar

B134

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B134

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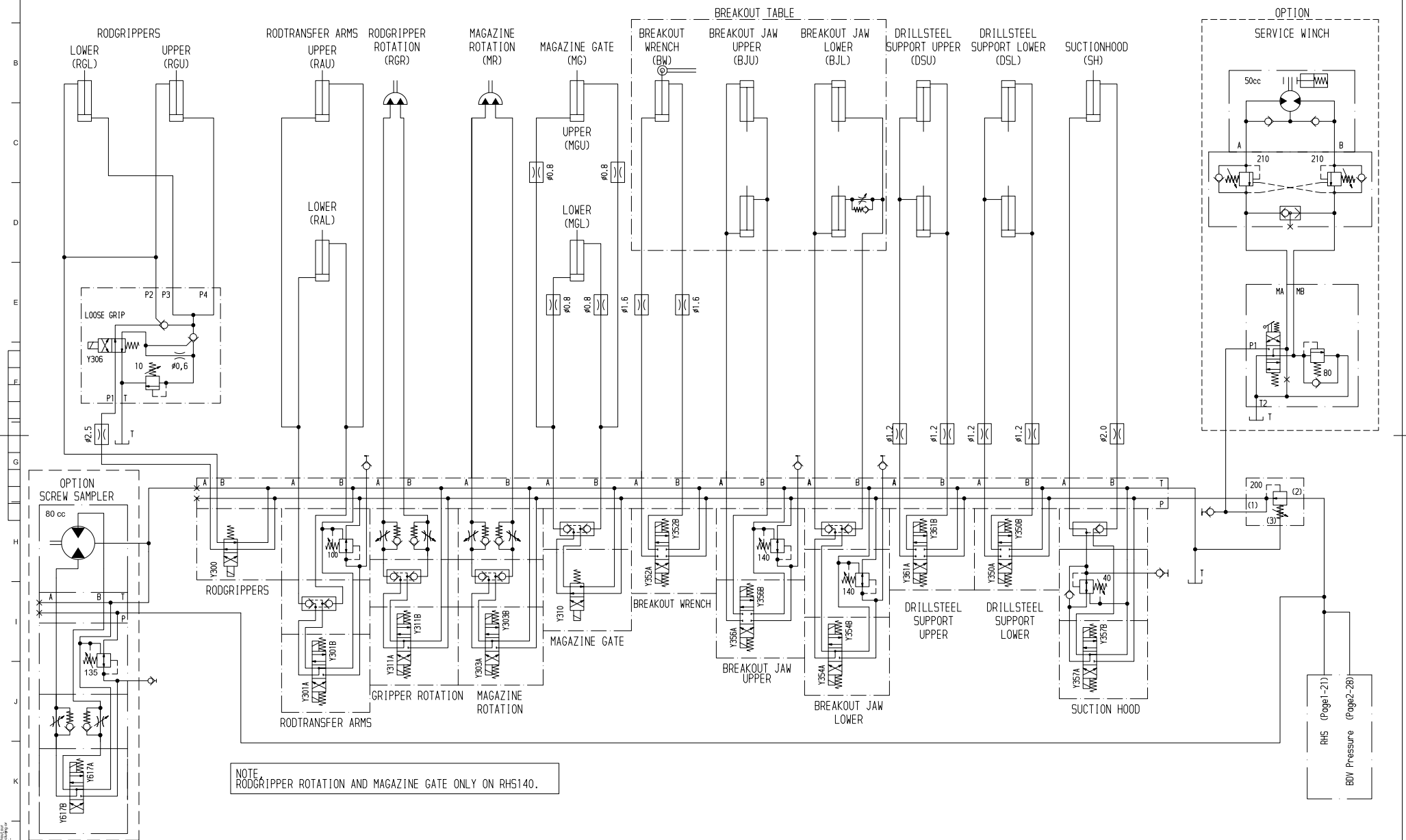
PCA

PCB

PCA

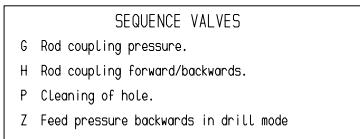
T - RETURN LINE CONNECTED TO RETURN OIL SYSTEM/OIL COOLER/RETURN OIL FILTERS
D - DRAIN LINE CONNECTED TO DRAIN BLOCK/RETURN OIL FILTER
L - DRAIN LINE CONNECTED DIRECT TO OIL TANK

T - RETURN LINE CONNECTED TO RETURN OIL SYSTEM/OIL COOLER/RETURN OIL FILTERS
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L - DRAIN LINE CONNECTED DIRECT TO OIL TANK



NOTE:
RODGRIPPER ROTATION AND MAGAZINE GATE ONLY ON RHS140.



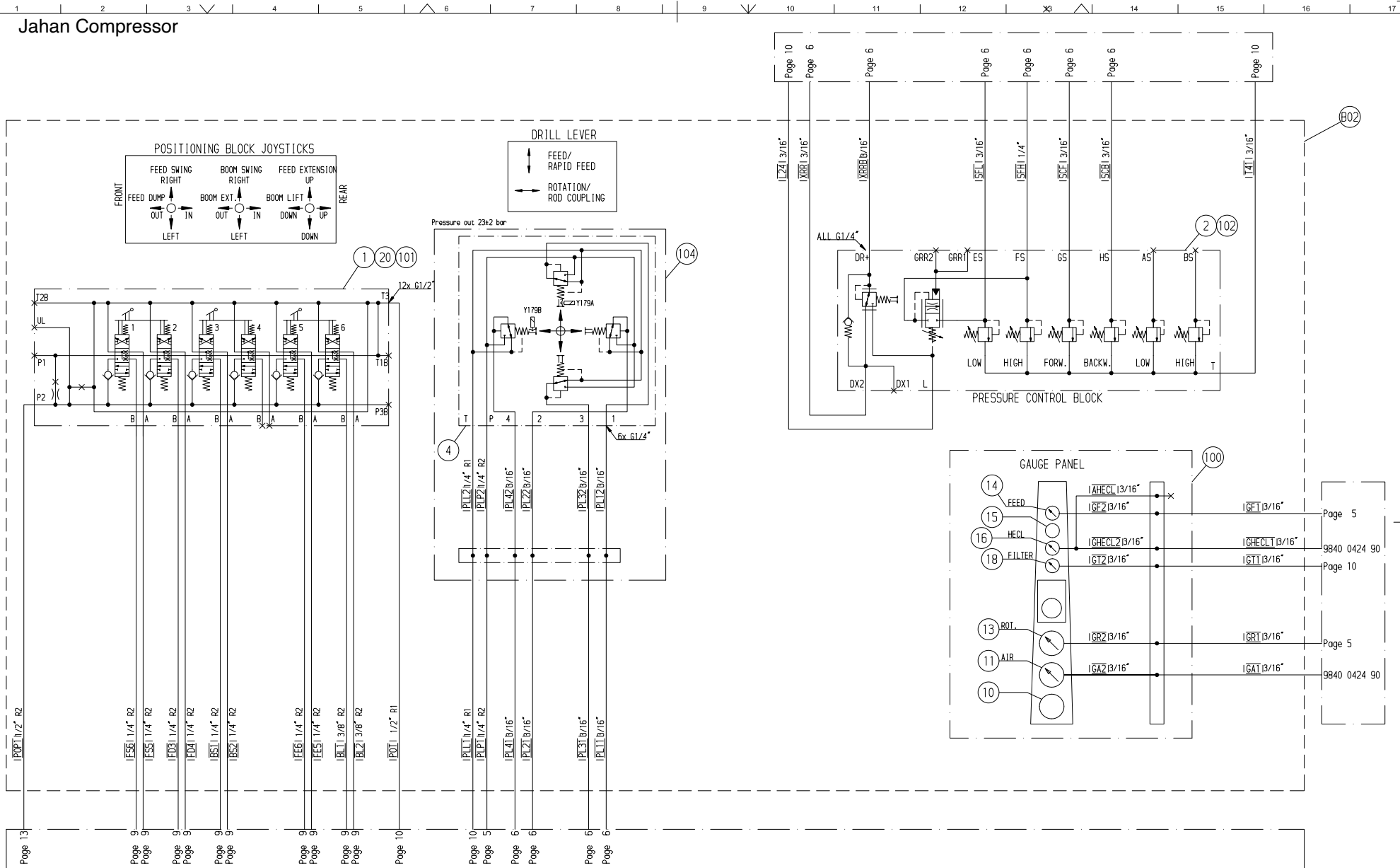


FlexiROC D50/D55/D60/D65 Valve Unit HYDRAULIC DIAGRAM		Trans./N Internal Released	Drawn Imagic (check with Imageman Date 2013-11-27	Approved Imagic (check with TMG Compare	Type Hydraulic System (hydraulic)	A 06(14)
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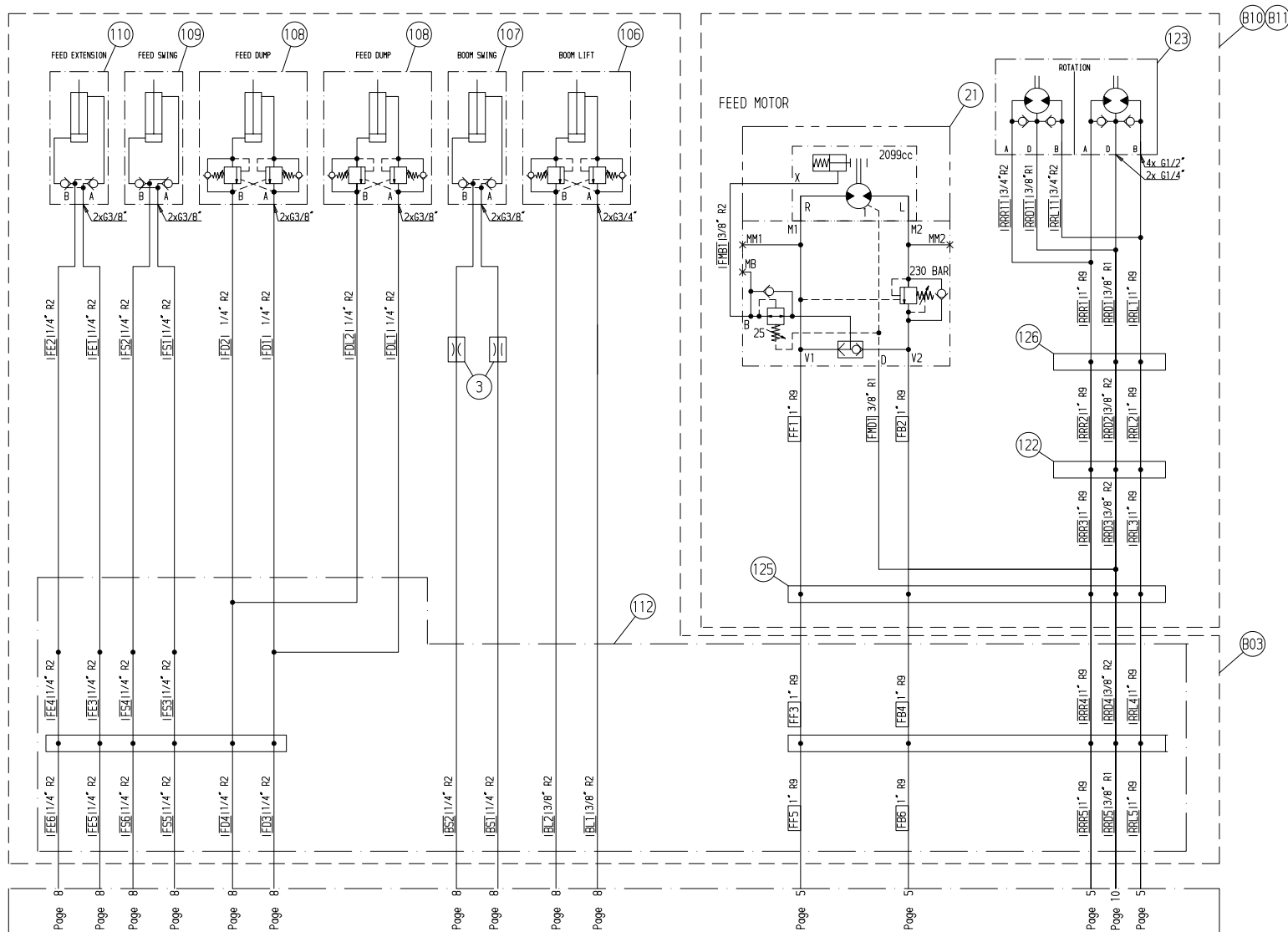


Type FlexROC D50/D55/D60/D65	Trans./A Internal	Drawn Imagic	Approved Imagic	Type Hydraulic System	A1
Valve Unit	Control System Internal	Check this Imagin	Check owner TMG	Check this 07(14)	
HYDRAULIC DIAGRAM	Drawn Released	Date 2013-11-27	Compare	9840042618 DS	

1 | 2 | 3 $\vee$ | 4 | 5 | 6 $\wedge$ | 7 | 8 | 9 $\vee$ | 10 | 11 | 12 | 13 $\times$ | 14 $\wedge$ | 15 | 16 | 17



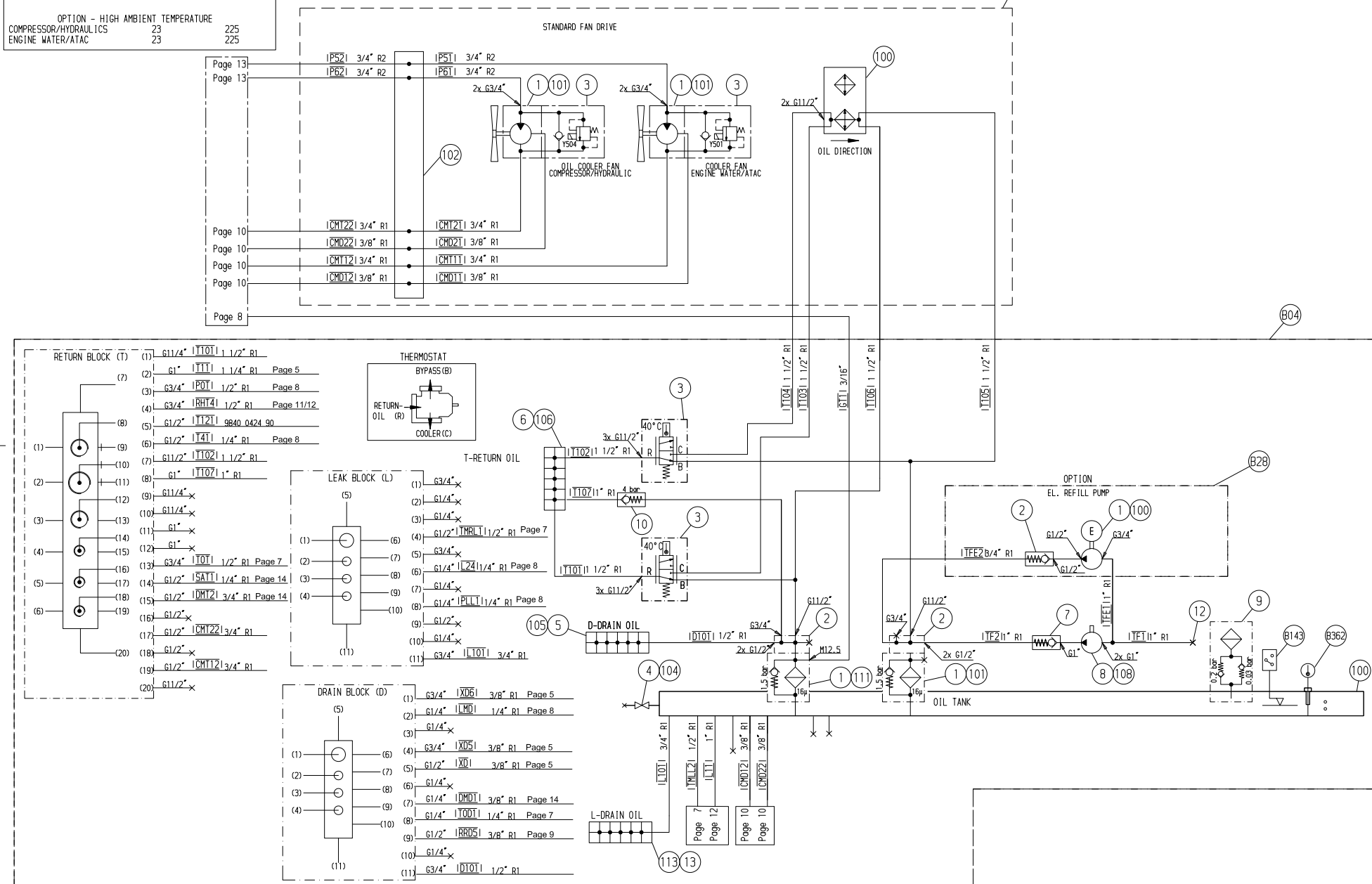
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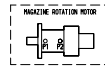
005		Track motors changed	TMG1812327	2018-02-09	Ingmen	Ingmen	Ingmen
Rev.	Pos.	Modified from		Date	Mod by	Chd by	Appd by

Name FlexROC D50/D55/D60/D65		Trans./V 17/450 psi, 1322 Internal Internal Date Released	Drawn Tmg Drawn by Tmg Date 2013-11-27	Approved Tmg Approved by Tmg Date 2013-11-27	Type Hydraulic System 09(14) 9840042618 DS	A1
--	---	--	---	---	---	----

COOLER	DISPLACEMENT (cc)	PRESSURE (bar)
COMPRESSOR/HYDRAULICS	19	207
ENGINE WATER/ATAC	19	207
OPTION - HIGH AMBIENT TEMPERATURE		
COMPRESSOR/HYDRAULICS	23	225
ENGINE WATER/ATAC	23	225



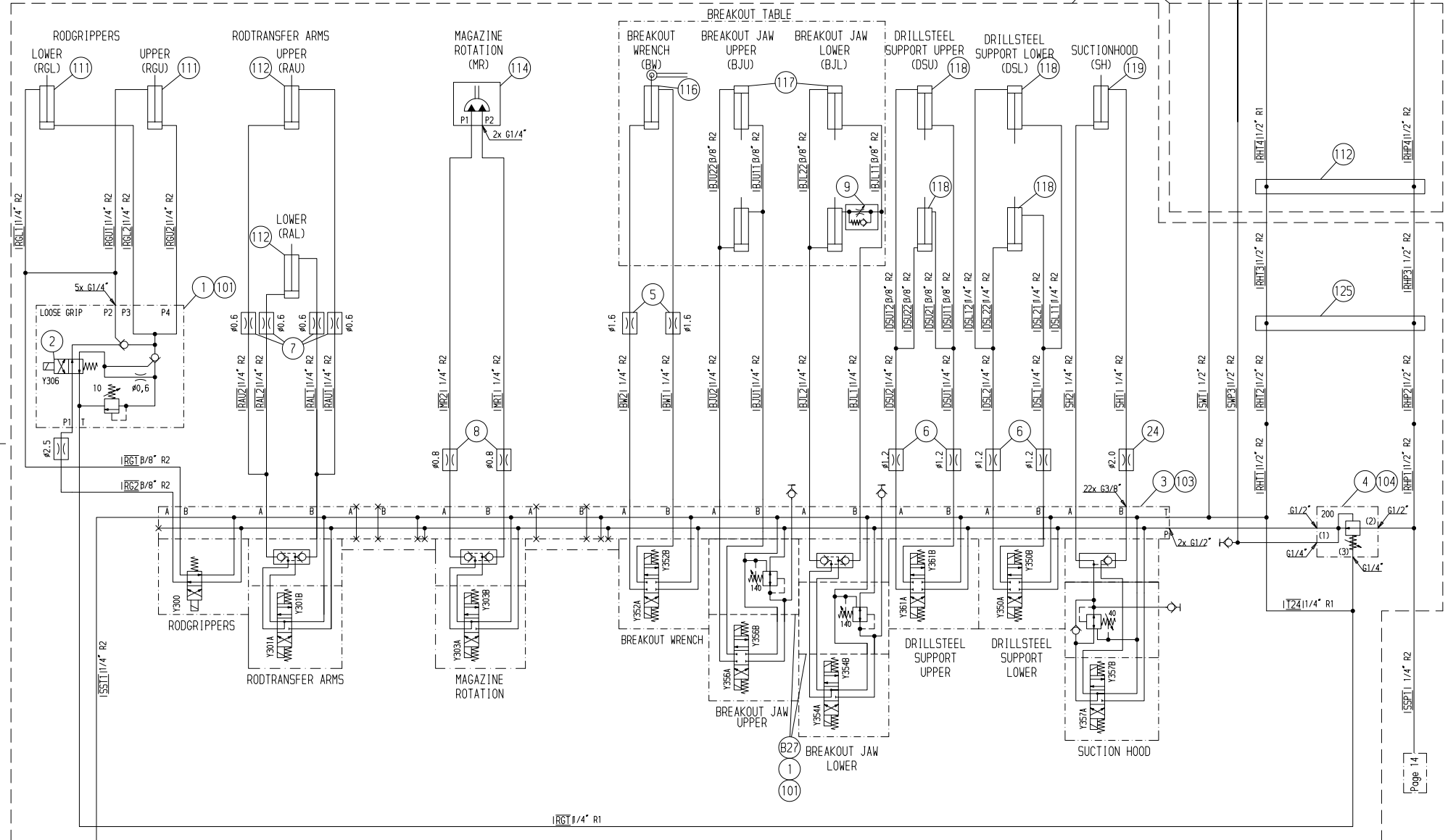
Jahan Compressor



Not 1.

(B10)

(B03)



Not 1.
THIS PAGE IS VALID ONLY FOR MODEL FLEXIROC D50, D55 AND D60 WITH OPTION RHS 102.
THE OPTION RHS 102 IS AVAILABLE ONLY FOR FLEXIROC D50, D55 AND D60.

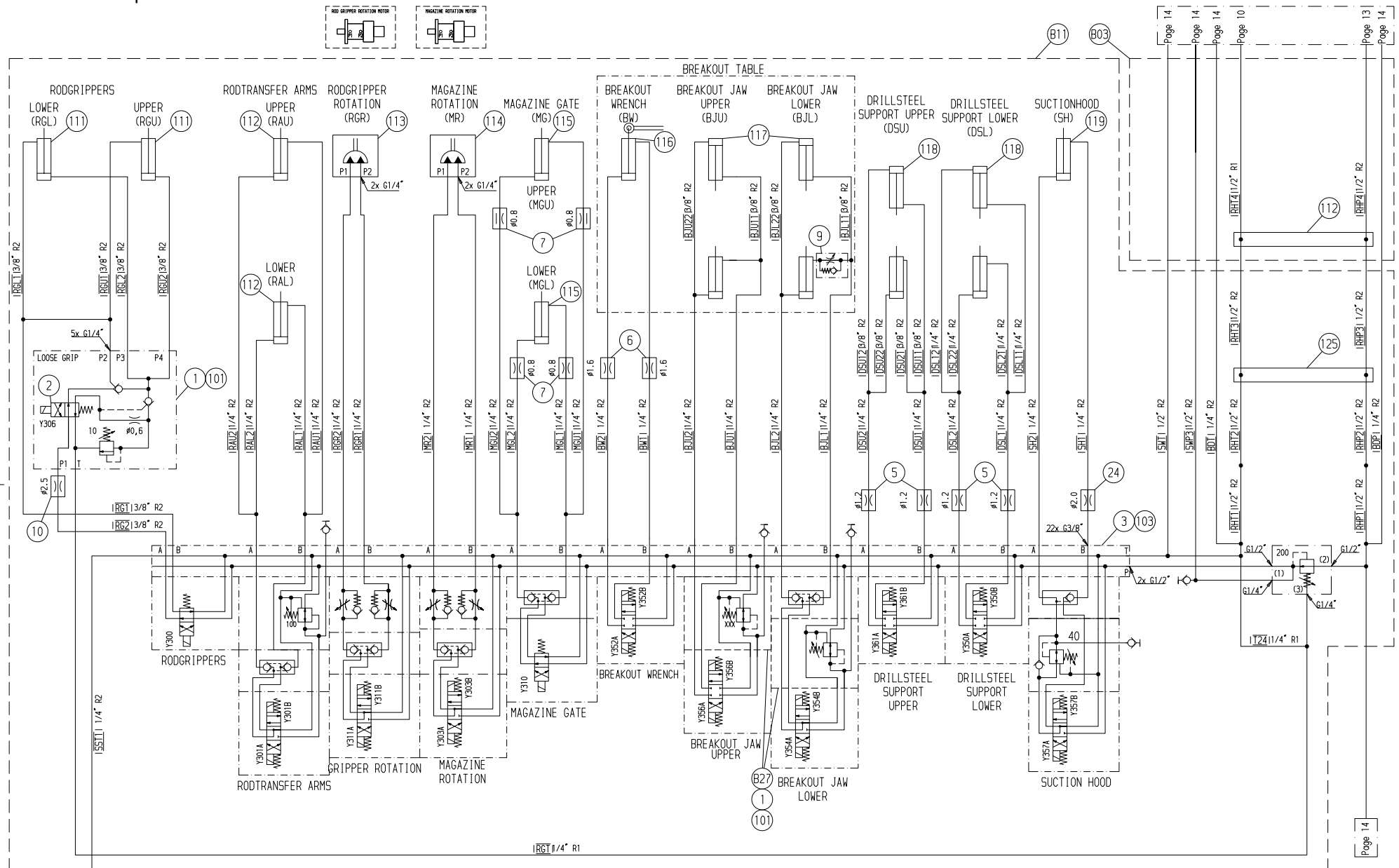
Rev.	Phs.	Mod/Ref from	Date	Modfy	Chkd by	Agency
D05		Track motors changed	TMD/18/12/2018/20/20/20			

Hydraulic System
Page RHS 102
HYDRAULIC SYSTEM

Epiroc

Revised
2013-11-27

9840042618_DS



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PUMPS

DISPLACEMENT (cc)	PRESSURE (bar)
FLEXIROC D50, D55, D60 / D65	FLEXIROC D50, D55, D60 / D65
PUMP 1 - 140 cc / 140 cc	250 / 250
PUMP 2 - 65 cc / 65 cc	170 / 170
PUMP 3 - 37 cc / 37 cc	170 / 170
PUMP 4 - 23 cc / 23 cc	250 / 250
PUMP 5 - 16 cc / 19 cc	207 / 207
PUMP 6 - 16 cc / 19 cc	207 / 207
OPTION - HIGH AMBIENT TEMPERATURE	
PUMP 5 - 23 cc / 25 cc	225 / 225
PUMP 6 - 23 cc / 25 cc	225 / 225

