

Engineering Release Notice (ERN)	Location	Change Description	A = Added D = Deleted	W = Was	Document Release Status RELEASED
		SEE DCN			Date Modification Count

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Document Title
**WIRE DIAGRAM
LEU 2013BP
SCHEMATIC**

VOLVO
Group Trucks Technology

Document Type
PRODUCT SCHEMATIC

Owner Domain:Document Prefix

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CONNECTOR ABBREVIATION LIST

Shell:Cavity	Harnesses: Where Used		Shell:Cavity	Harnesses: Where Used	
6SABS	FRONT_CHASSIS	REAR_CHASSIS_EXTENSION	FCSH	FRONT_CHASSIS	STANCHION_HARNESS
A36_3_CHASSIS.A	BODY_BUILDER_CHASSIS	BODY_BUILDER_CHASSIS	FCSP	{AIR SOLENOID PACK}	REAR_CHASSIS_EXTENSION
A36_3_CHASSIS.C	BODY_BUILDER_CHASSIS	BODY_BUILDER_CHASSIS	FCUT	UREA_TANK	UREA_TANK_EXTENSION
A58.A.A	AUTOTRANS_TRANS	AUTOTRANS_TRANS	FCUTEXT	FRONT_CHASSIS	UREA_TANK_EXTENSION
A58.A.E	AUTOTRANS_TRANS	AUTOTRANS_TRANS	FRC1	MAIN_CAB	
A58.A.O	AUTOTRANS_TRANS	AUTOTRANS_TRANS	FRC2	MAIN_CAB	
A58.A.RS	AUTOTRANS_TRANS	AUTOTRANS_TRANS	FRC3	MAIN_CAB	
A58.A.T	AUTOTRANS_TRANS	AUTOTRANS_TRANS	H02DHJ	FRONT_CHASSIS	DUAL_HORN_JUMPER
A58.O	AUTOTRANS_TRANS	AUTOTRANS_TRANS	HOOKUP_LP	MAIN_CAB	XXX
ABS_OPTION	MAIN_CAB	XXX	ILLUM_OPT	MAIN_CAB	
ABS_X1	MAIN_CAB	ABS_JUMPER	ILLUM_OPT2	MAIN_CAB	CAMERA_SWITCH
ABS_X2	MAIN_CAB	ABS_JUMPER	ILLUM_OPT3	MAIN_CAB	CAMERA_SWITCH
AC	ROOF_AC_CAB	ROOF_AC_ROOF	ILLUM_OPT4	MAIN_CAB	DRL_OVERRIDE_SWITCH
AC1	ROOF_AC_CAB	ROOF_AC_CHASSIS	ILLUM_OPT5	MAIN_CAB	DRL_OVERRIDE_SWITCH
ALLISON	AUTOTRANS_TRANS	AUTOTRANS_ABS_CAB	ILLUM_OPT6	MAIN_CAB	PARKER_PTO_OVERLAY
ATTR	AUTOTRANS_TRANS	AUTOTRANS_ABS_CAB	ILLUM_OPT7	MAIN_CAB	PARKER_PTO_OVERLAY
BB_CAB1_AB	BB_CAB_B		IMS	FRONT_CHASSIS	STARTER_IMS_TERMINAL
BB_CAB1_BC	BB_CAB_B	BB_CAB_C	LHCS	FRONT_CHASSIS	CNG_LH_STANTION
BB_CAB2_AB	BB_CAB_A	BB_CAB_B	LHSP	FRONT_CHASSIS	CNG_LH_STANTION
BB_CAB2_BC	BB_CAB_B	BB_CAB_C	MC_SOL_SW	MAIN_CAB	SOLENOID_SW
BB_CUMMINS	MAIN_CAB	BB_CAB_A	MCAATS	FRONT_CHASSIS	AIR_TEMP_SENSOR
BB_PK_BK	MAIN_CAB	BB_PARK_BK	MCAF	MAIN_CAB	AUX_FAN
BB3_A	BB_CAB_A		MCAF2	MAIN_CAB	AUX_FAN
BB3_B	BB_CAB_A		MCAT_A	MAIN_CAB	AUTOTRANS_ABS_CAB
BB3_DCL	BB_CAB_A		MCAT_B	MAIN_CAB	AUTOTRANS_ABS_CAB
BB3_X06D	BB_CAB_A		MCAT_C	MAIN_CAB	AUTOTRANS_ABS_CAB
BBCP	BB_CAB_A	BB_CLEAN_POWER_CHASSIS	MCAT_D	MAIN_CAB	AUTOTRANS_ABS_CAB
BBDCL	BB_CAB_A		MCAT_E	MAIN_CAB	AUTOTRANS_ABS_CAB
BBIC1	BODY_BUILDER_CHASSIS		MCDLR	MAIN_CAB	TELMA_CAB
BBMFC1	BB_CAB_C	BODY_BUILDER_CHASSIS	MCDO	MAIN_CAB	DRL_OVERRIDE_SWITCH
BBMFC2	BB_CAB_C	BODY_BUILDER_CHASSIS	MCFC	MAIN_CAB	FRONT_CHASSIS
BBMCO	MAIN_CAB	BB_CAB_A	MCFCAF	MAIN_CAB	FRONT_CHASSIS
BBSP1	BB_CAB_A		MCFG	MAIN_CAB	FUEL_GAUGE_JUMPER
BBSP2	BB_CAB_A		MCMSO	MAIN_CAB	MIRROR_SWITCH_OVERLAY
BBSP3	BB_CAB_A		MCPM	MAIN_CAB	PWR_MIRROR_CAB
BBSP4	BB_CAB_A		MCRF1	MAIN_CAB	ROOF
BBSP5	BB_CAB_A		MCRF2	MAIN_CAB	ROOF
BBSP6	BB_CAB_A		MCRF3	MAIN_CAB	ROOF
BLA_BBC	BB_CAB_A	BB_CAB_B	MCRF4	MAIN_CAB	ROOF

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Shell:Cavity	Harnesses: Where Used		Shell:Cavity	Harnesses: Where Used	
BLA_BLB	BB_CAB_A	BB_CAB_B	MCTL	TAIL_LAMP	REAR_CHASSIS_EXTENSION
BLB_BLC	BB_CAB_B	BB_CAB_C	MCWB1	MAIN_CAB	WASHER_BOTTLE
BP_CAB_AB	BODYPWR_CAB_A	BODYPWR_CAB_B	MCWB2	MAIN_CAB	WASHER_BOTTLE
BP_CAB_BC	BODYPWR_CAB_B	BODYPWR_CAB_C	MCWL_A	WORKLAMP_CAB	
BPMCFC	BODYPWR_CAB_C	BODYPOWER_FRONTCHASSIS	MCWL_B	WORKLAMP_CAB	
BWFC	FRONT_CHASSIS	BRAKE_WEAR_FRONT	NYC_BODY	MAIN_CAB	XXX
BWRC	FRONT_CHASSIS	BRAKE_WEAR_REAR	PB_START	PBSTART_HARNESS	
CBBFCBB	BB_CAB_C	BODY_BUILDER_CHASSIS	PLOW_LMP	FRONT_CHASSIS	
CDPF	FRONT_CHASSIS	CNG_RH_STANTION	PPCO	AUTOTRANS_ABS_CAB	PARKER_PTO_OVERLAY
CLN_PWR	FRONT_CHASSIS	CLEAN_POWER	RC1	MAIN_CAB	
CPBBFC	FRONT_CHASSIS	BB_CLEAN_POWER_CHASSIS	RC2	MAIN_CAB	
CPBBMC	MAIN_CAB	BB_CAB_A	RC3	MAIN_CAB	XXX
DRL_OR_BB_DCL	BB_CAB_A	DRL_OVERRIDE_SWITCH	RC4	MAIN_CAB	
DRL_OR_DCL	MAIN_CAB	DRL_OVERRIDE_SWITCH	RC5	AUX_FAN	
DRL_OR_DCL2	MAIN_CAB	DRL_OVERRIDE_SWITCH	RC6	MAIN_CAB	XXX
DSFC	DS_HARNESS	REAR_CHASSIS_EXTENSION	RHGJ	ROOF	GLAD_JUMPER
DSFRT	DS_HARNESS	DS_HARNESS_EXT_MERITOR	RHGJ1	ROOF	GLAD_JUMPER
DSRR	DS_HARNESS	DS_HARNESS_EXT_MERITOR	SP_BAT1	MAIN_CAB	
EOPS	FRONT_CHASSIS	ENG_OIL_PRESSURE	SP_FUSE	MAIN_CAB	
FCAD	FRONT_CHASSIS	AIR_DRYER_EXT	SP_FUSE_BB3	BB_CAB_A	
FCAR	AIR_RESTRICTION	CNG_LH_STANTION	SP_IGN1	MAIN_CAB	AUX_FAN
FCBL	FRONT_CHASSIS	BODYPOWER_FRONTCHASSIS	SP_IGN2	MAIN_CAB	BB_CAB_A
FCCE	FRONT_CHASSIS	REAR_CHASSIS_EXTENSION	SP_IGN3	MAIN_CAB	
FCCP	FRONT_CHASSIS	CLN_PWR_ACM	SP_RLY	MAIN_CAB	BB_CAB_A
FCEFS	FRONT_CHASSIS	ENGINE_FAN_HARNESS	SP_RLY_BB3	BB_CAB_A	
FCEIC	FRONT_CHASSIS		TLBU	TAIL_LAMP	BACKUP_ALARM
FCFS	FRONT_CHASSIS	FUEL_SENDER_EXT	TRPTO	PTO	AUTOTRANS_TRANS
FCLA	LIFT_AXLE	FRONT_CHASSIS	WL	MAIN_CAB	WORKLAMP_ROOF

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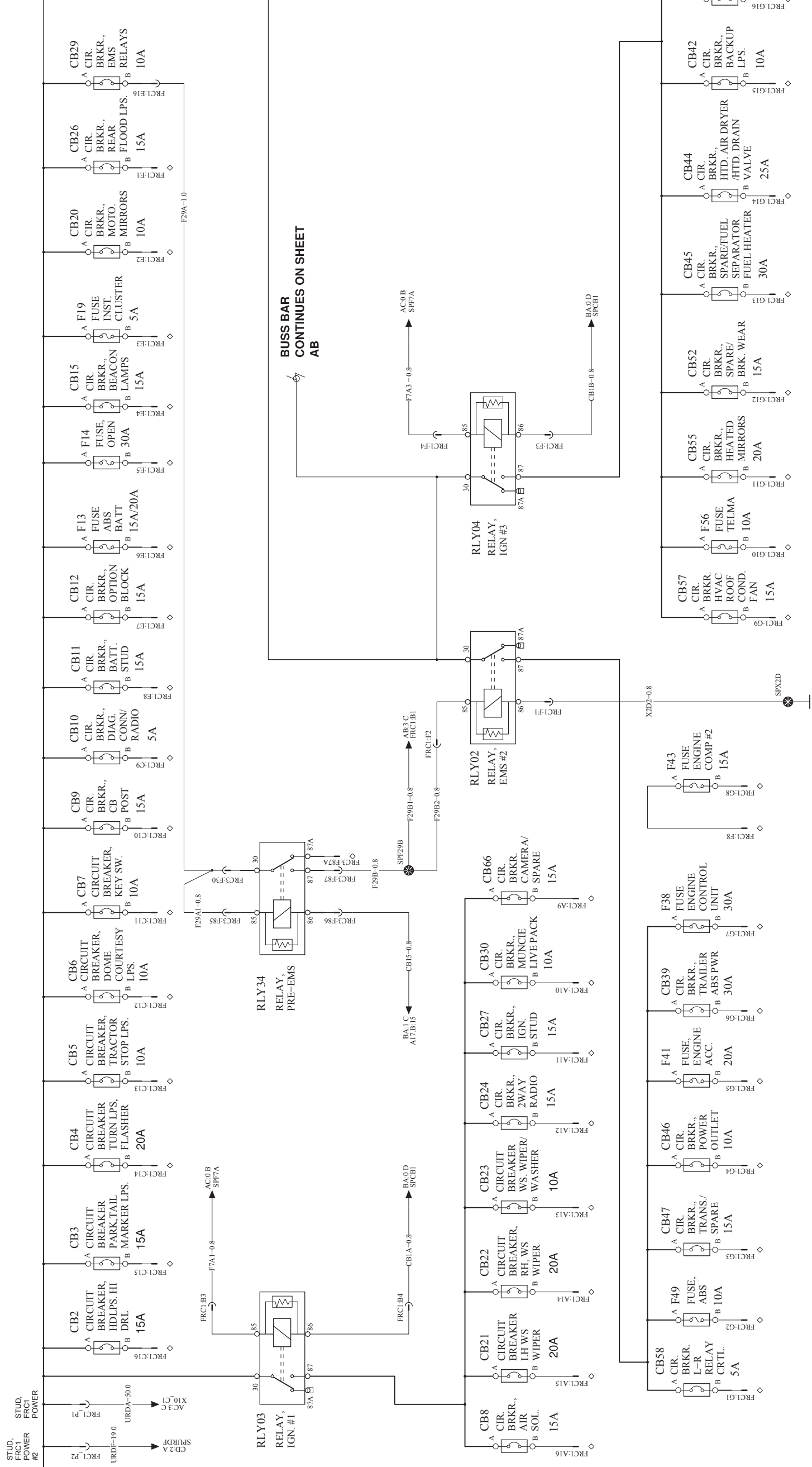
WIRING DIAGRAM: AA

BATT
IGN
EMS
ILLUM

STUD, FRCT1, POWER #2
URDA-50.0
AC3 C1
X10 C1

CD2 A
SPURDF
URDF-19.0
FRCT1 P2

BP4 B
SPU75A
U75A1-8.0
FRCT1 P3



A

B

C

D

E

A

B

C

D

E

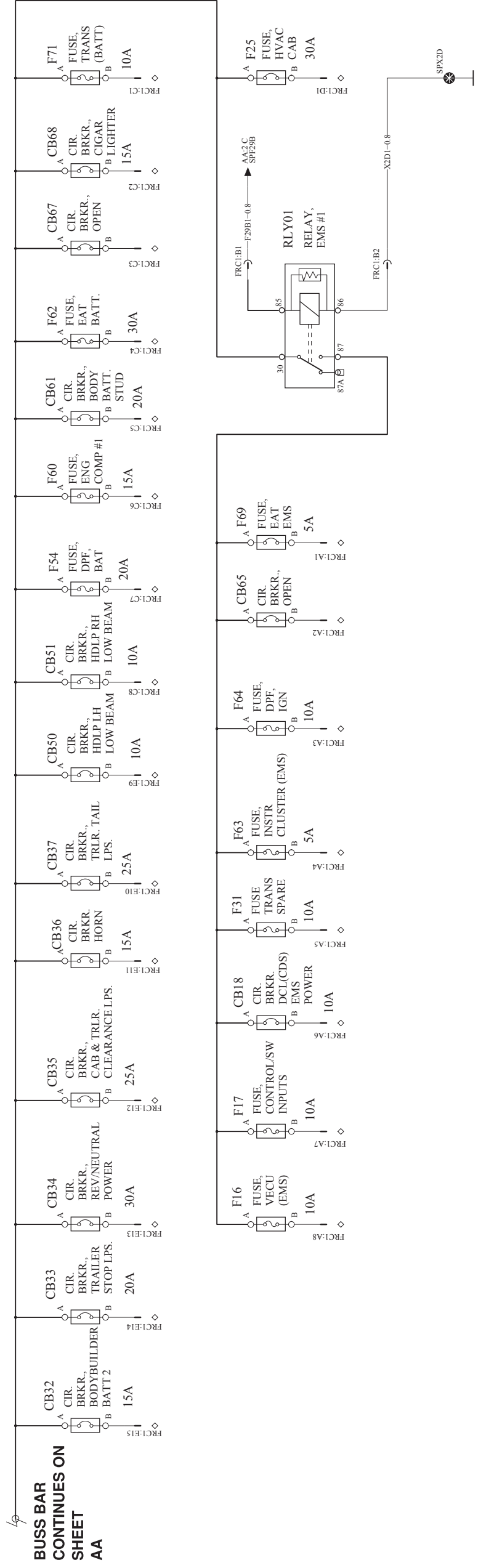
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POWER DISTRIBUTION 2/2

WIRING DIAGRAM: AB

BATT _____
 IGN _____
 EMS _____
 ILLUM _____

A



BUSS BAR CONTINUES ON SHEET AA

A

B

C

D

E

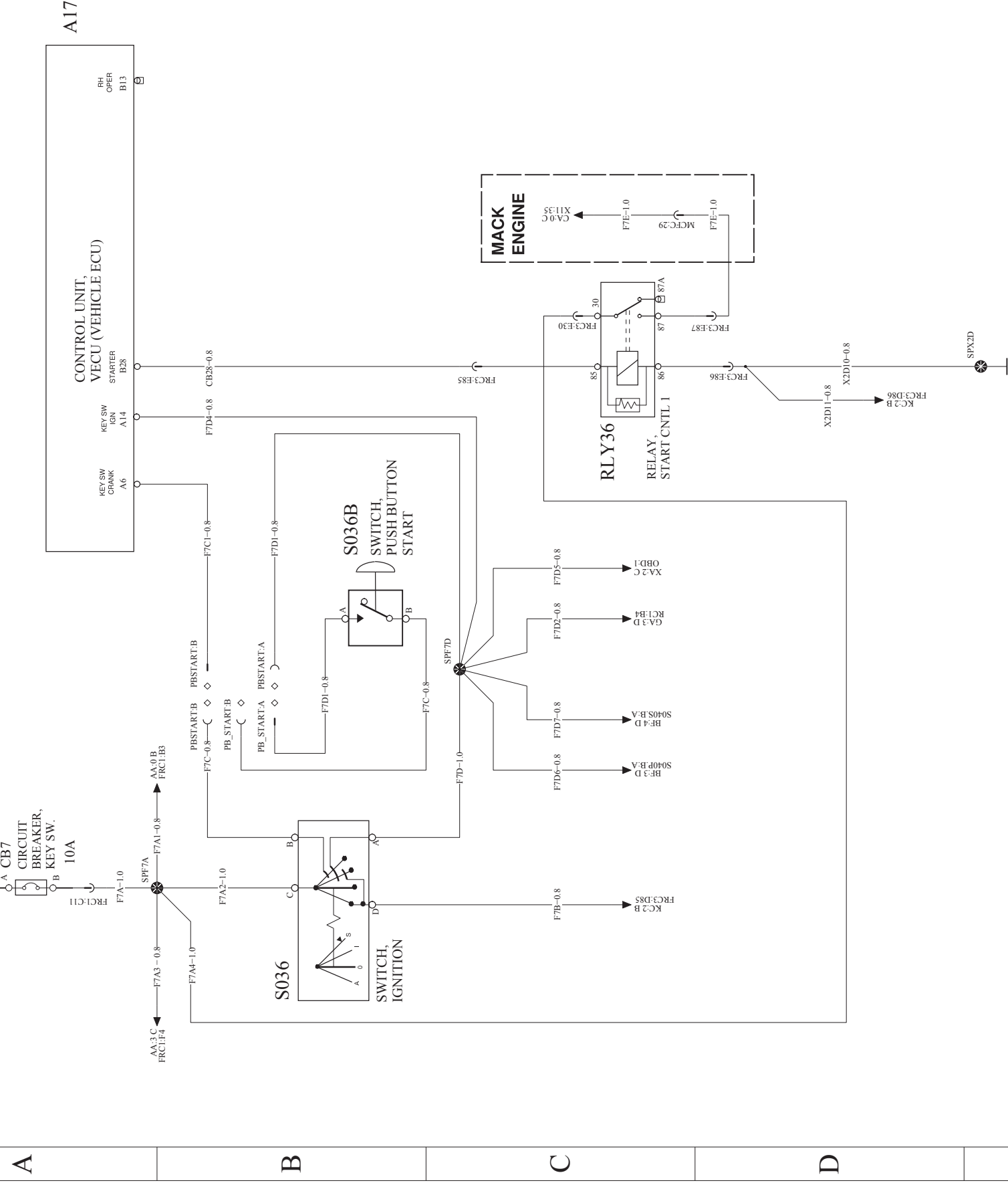
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KEY SW., START & CHARGING

WIRING DIAGRAM: AC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



A

B

C

D

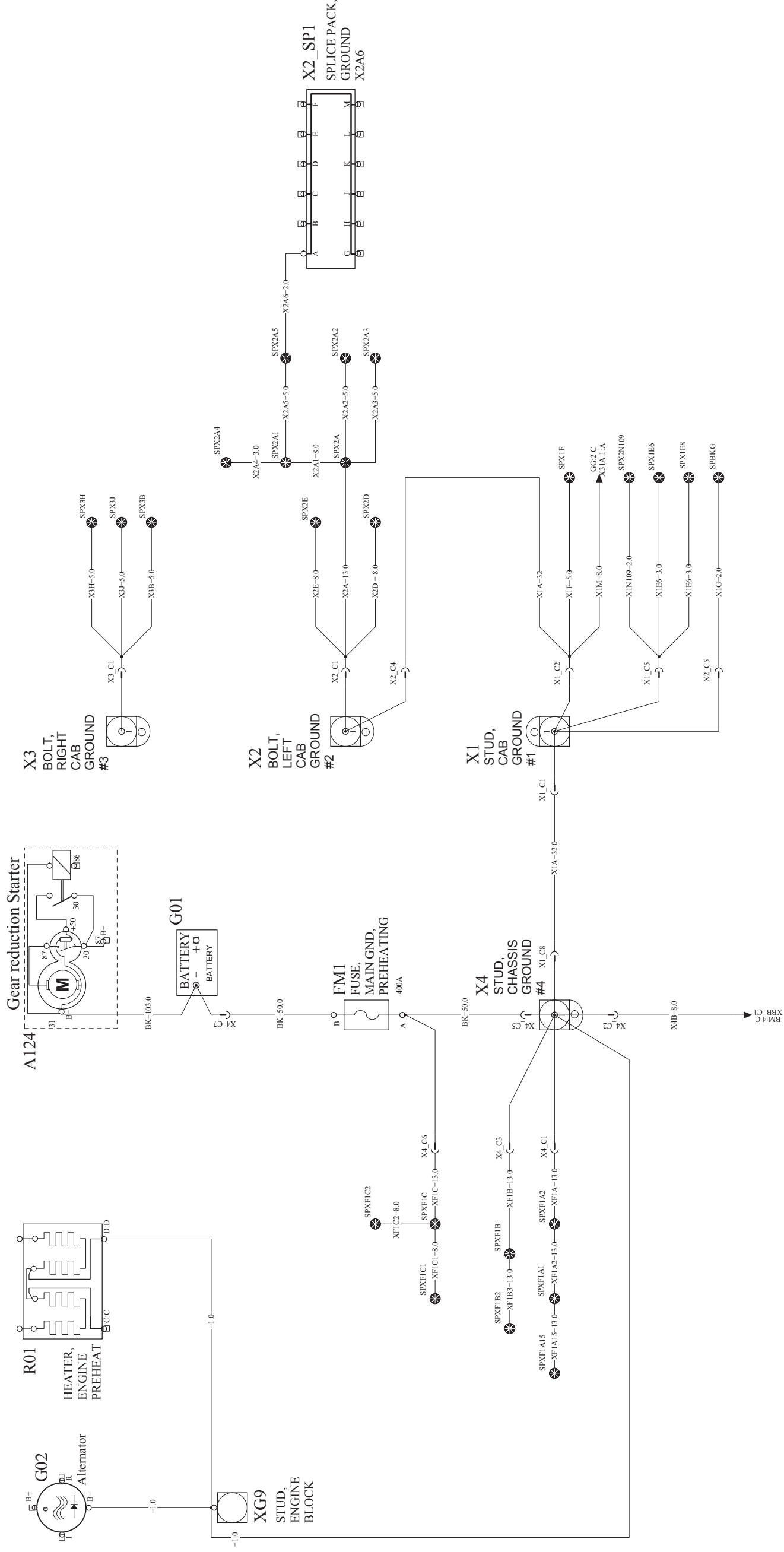
E

GROUNDING

BATT
IGN
EMS
ILLUM

WIRING DIAGRAM: AD

BATT
IGN
EMS
ILLUM



VEHICLE ECU 1/5

WIRING DIAGRAM: BA

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

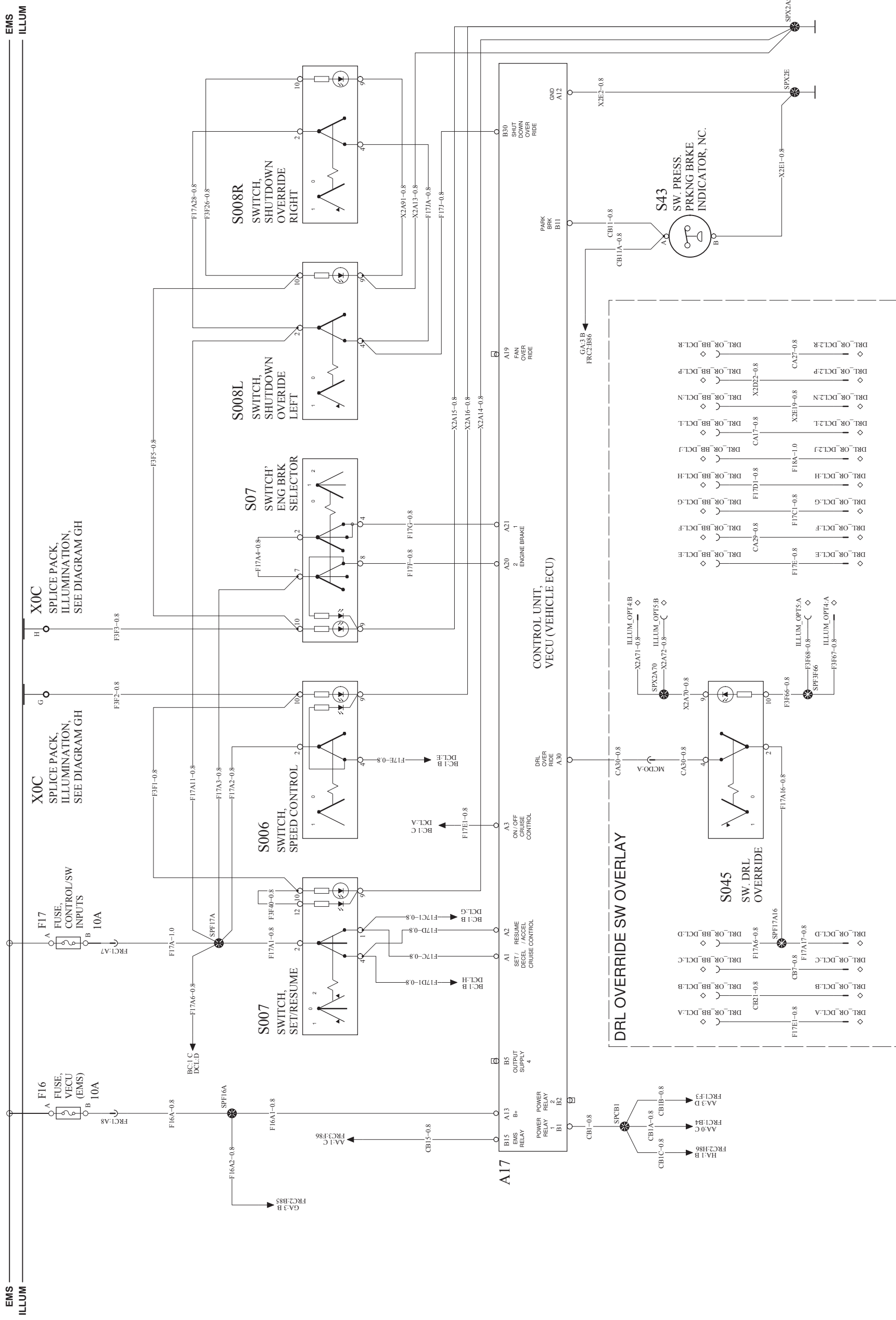
A

B

C

D

E



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VEHICLE ECU 2/5

WIRING DIAGRAM: BB

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

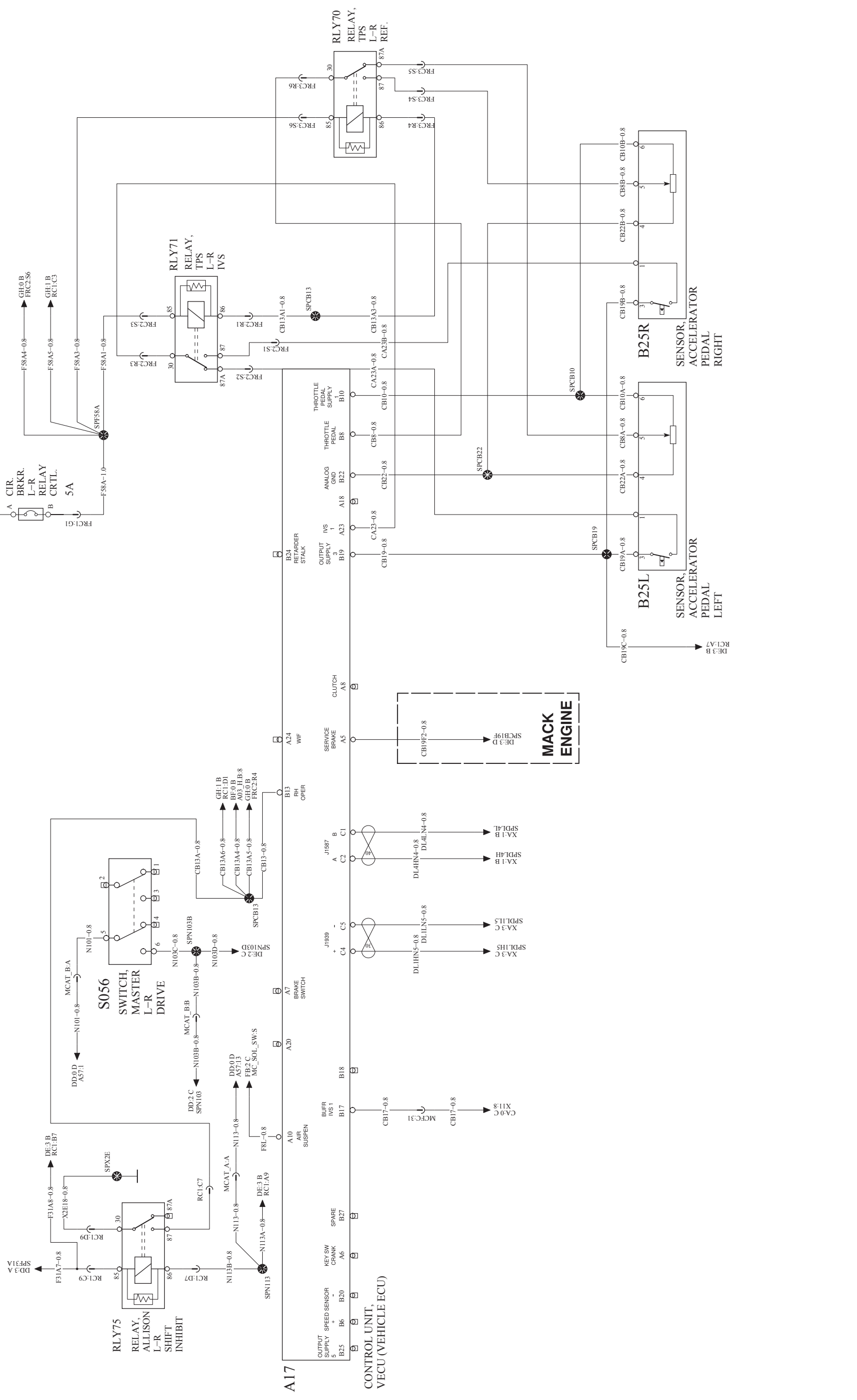
A

B

C

D

E



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VEHICLE ECU 4/5 - DCL CONNECTOR

WIRING DIAGRAM: BC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

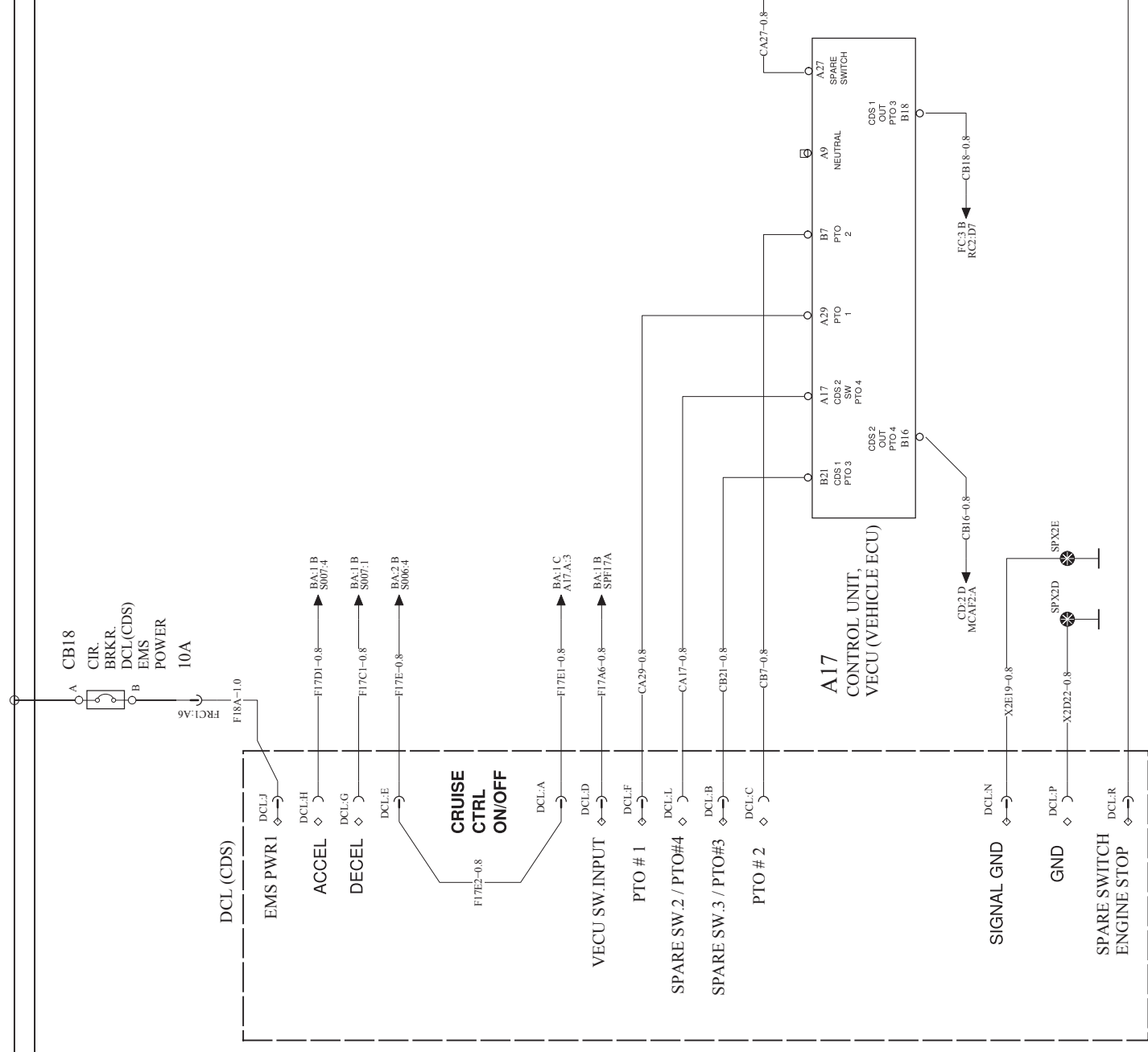
A

B

C

D

E



VEHICLE ECU 5/5

WIRING DIAGRAM: BD

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

B

C

D

E

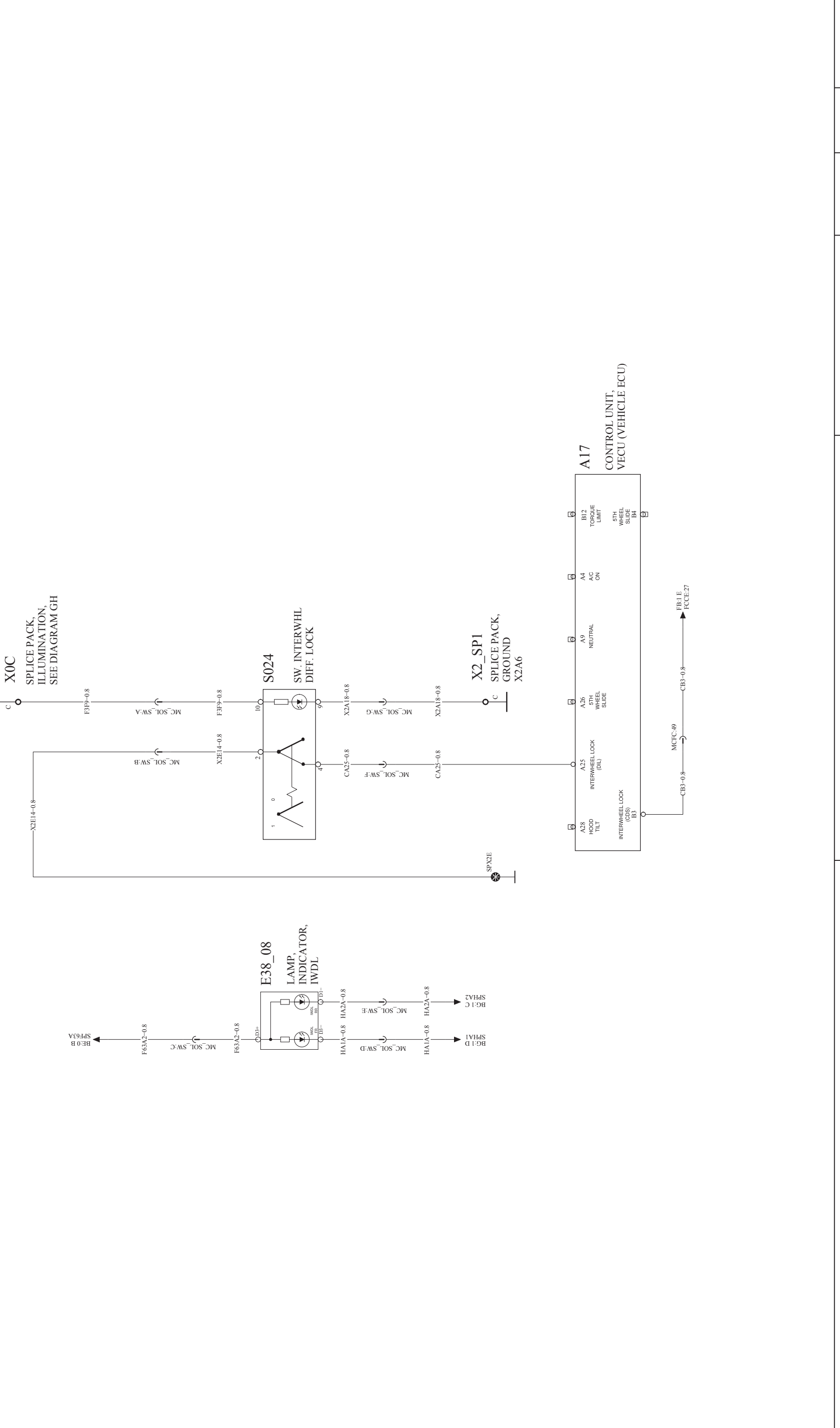
A

B

C

D

E



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INSTRUMENT CLUSTER 1/4

WIRING DIAGRAM: BE

BATT
IGN
EMS
ILLUM

A

B

C

D

E

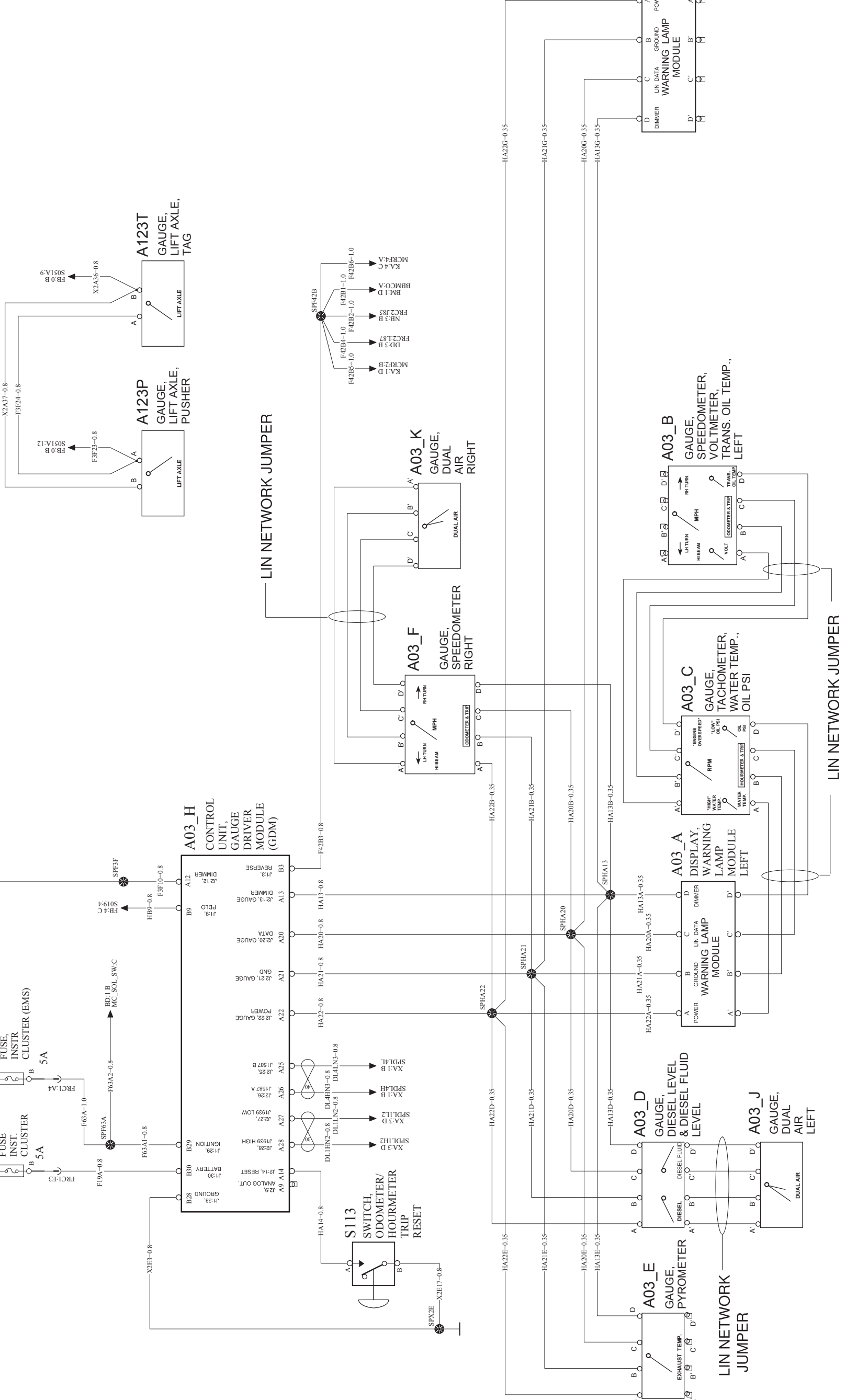
A

B

C

D

E

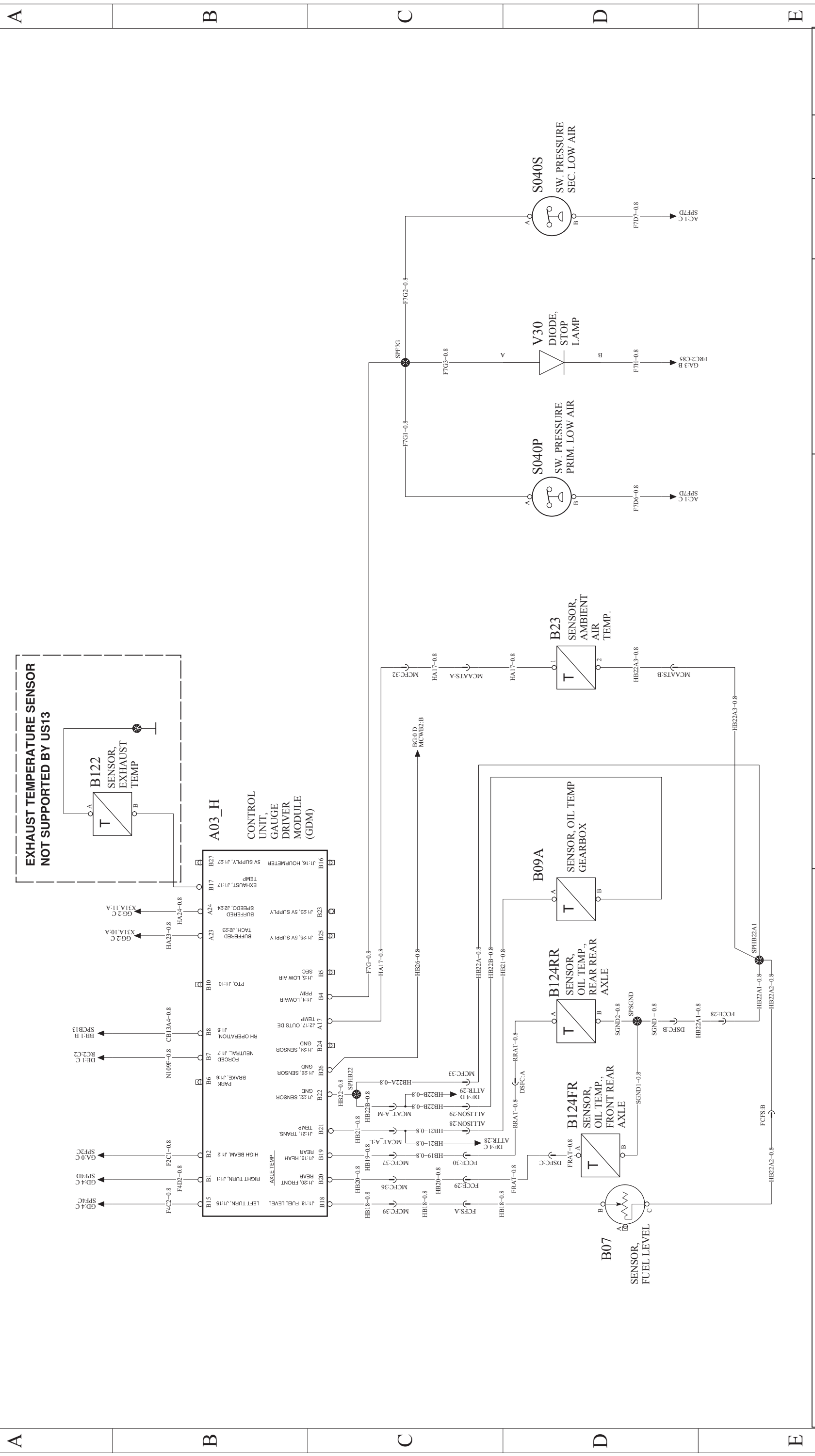


WIRING DIAGRAM: BF

INSTRUMENT CLUSTER 3/4

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

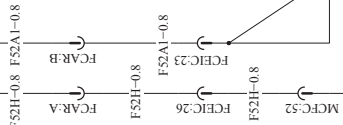
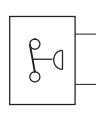


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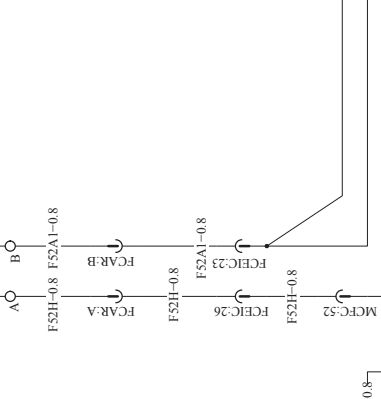
BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

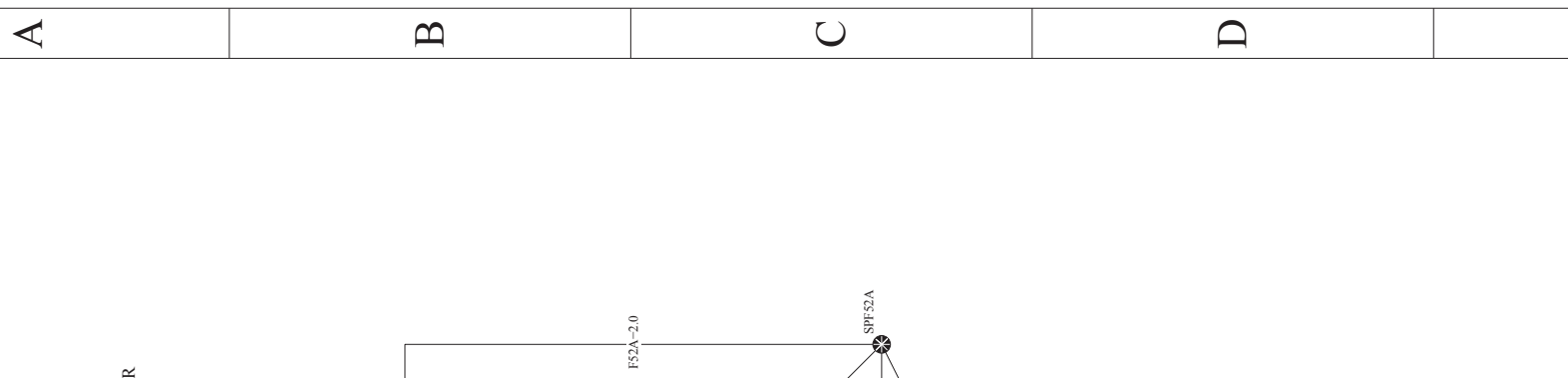
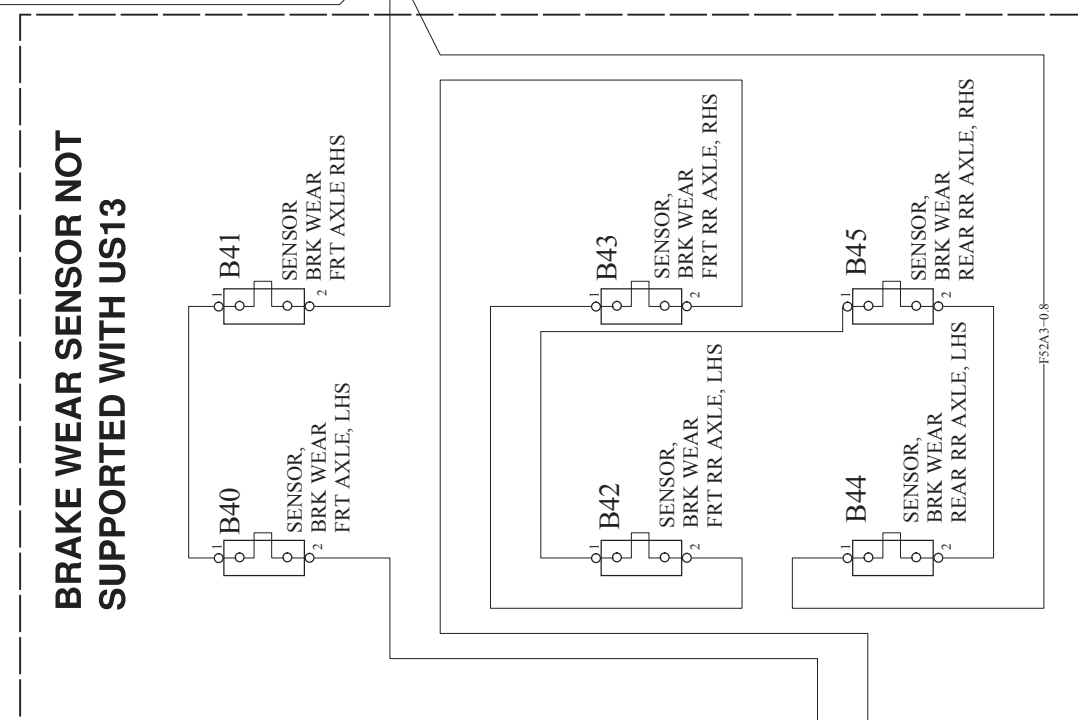
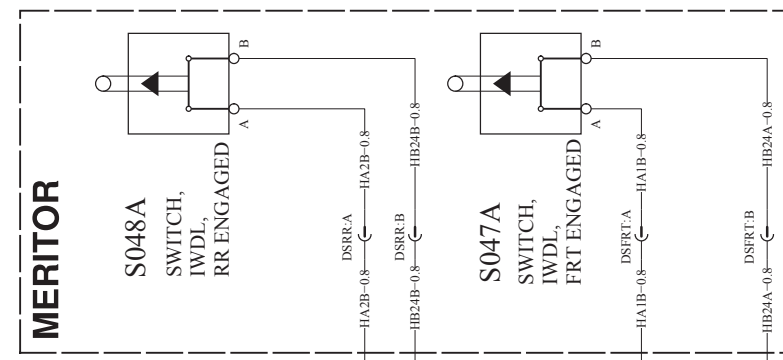
B133
SENSOR,
AIR FILTER
RESTRICTION



A03_H
CONTROL
UNIT,
GAUGE
DRIVER
MODULE
(GDM)



B121
Sensor, Low level washer fluid



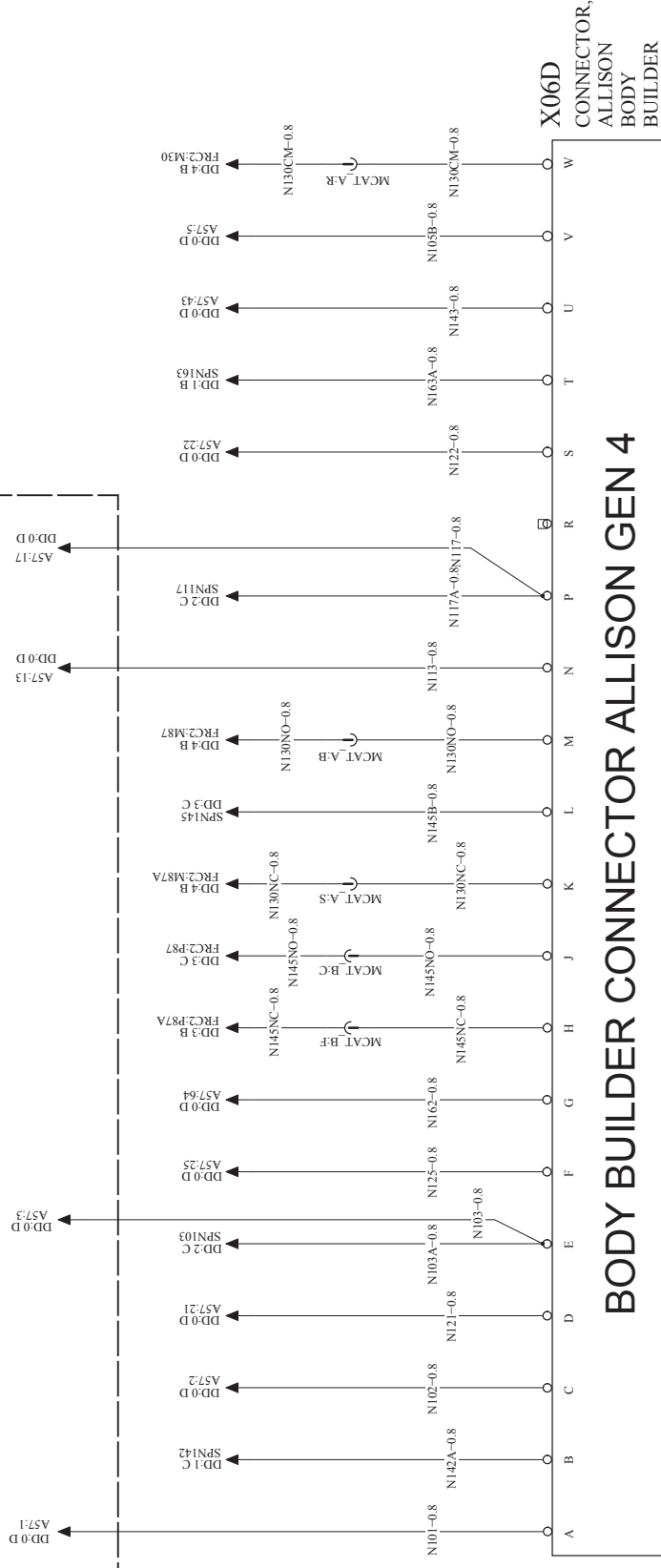
ALLISON BODY BUILDER INTERFACE

WIRING DIAGRAM: BH

BATT
IGN
EMS
ILLUM

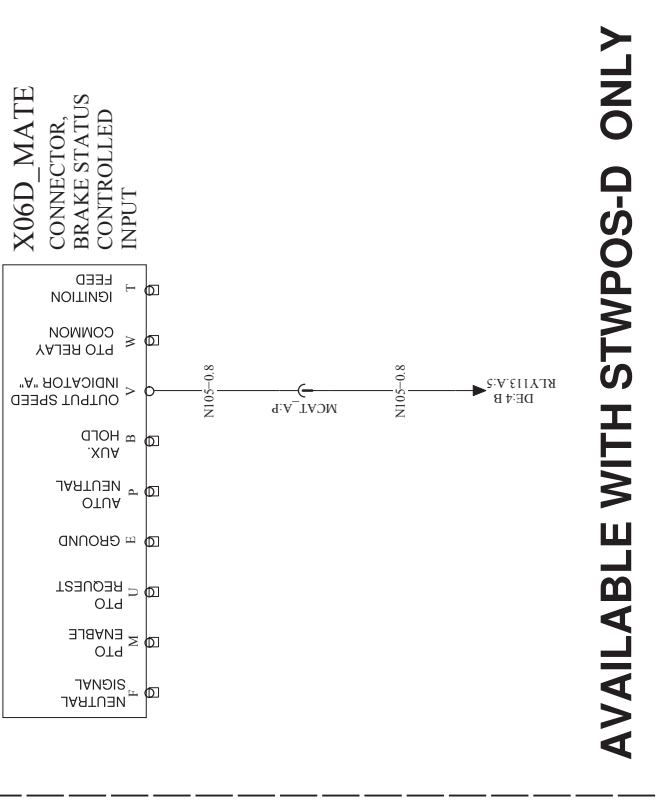
BATT
IGN
EMS
ILLUM

AVAILABLE WITH STWPOS-R ONLY



BODY BUILDER CONNECTOR ALLISON GEN 4

X06D CONNECTOR, ALLISON BODY BUILDER



AVAILABLE WITH STWPOS-D ONLY

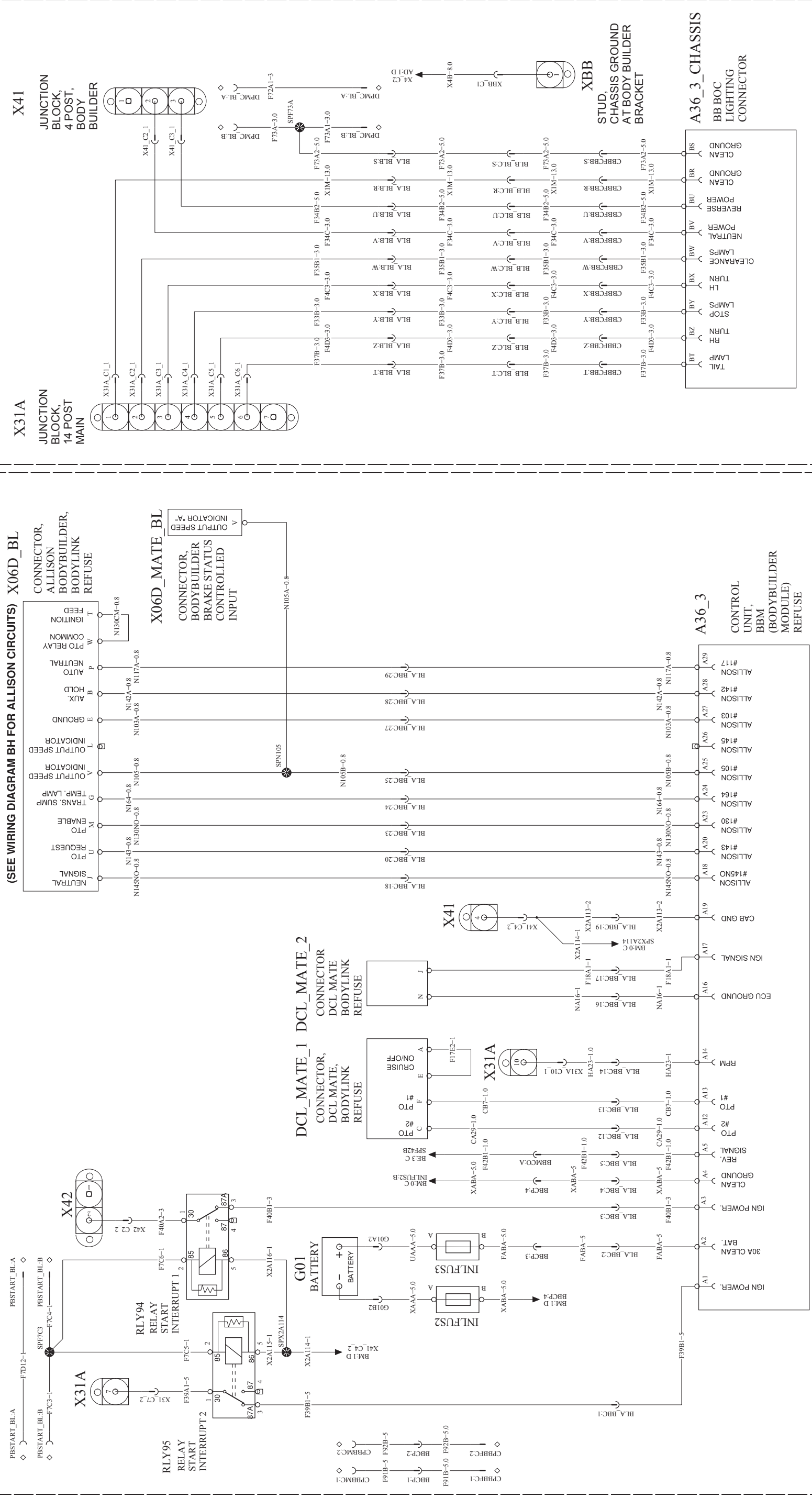
REFUSE AND CONSTRUCTION

WIRING DIAGRAM: BM

- BATT
- IGN
- EMS
- ILLUM

REFUSE ONLY

REFUSE AND CONSTRUCTION



A

B

C

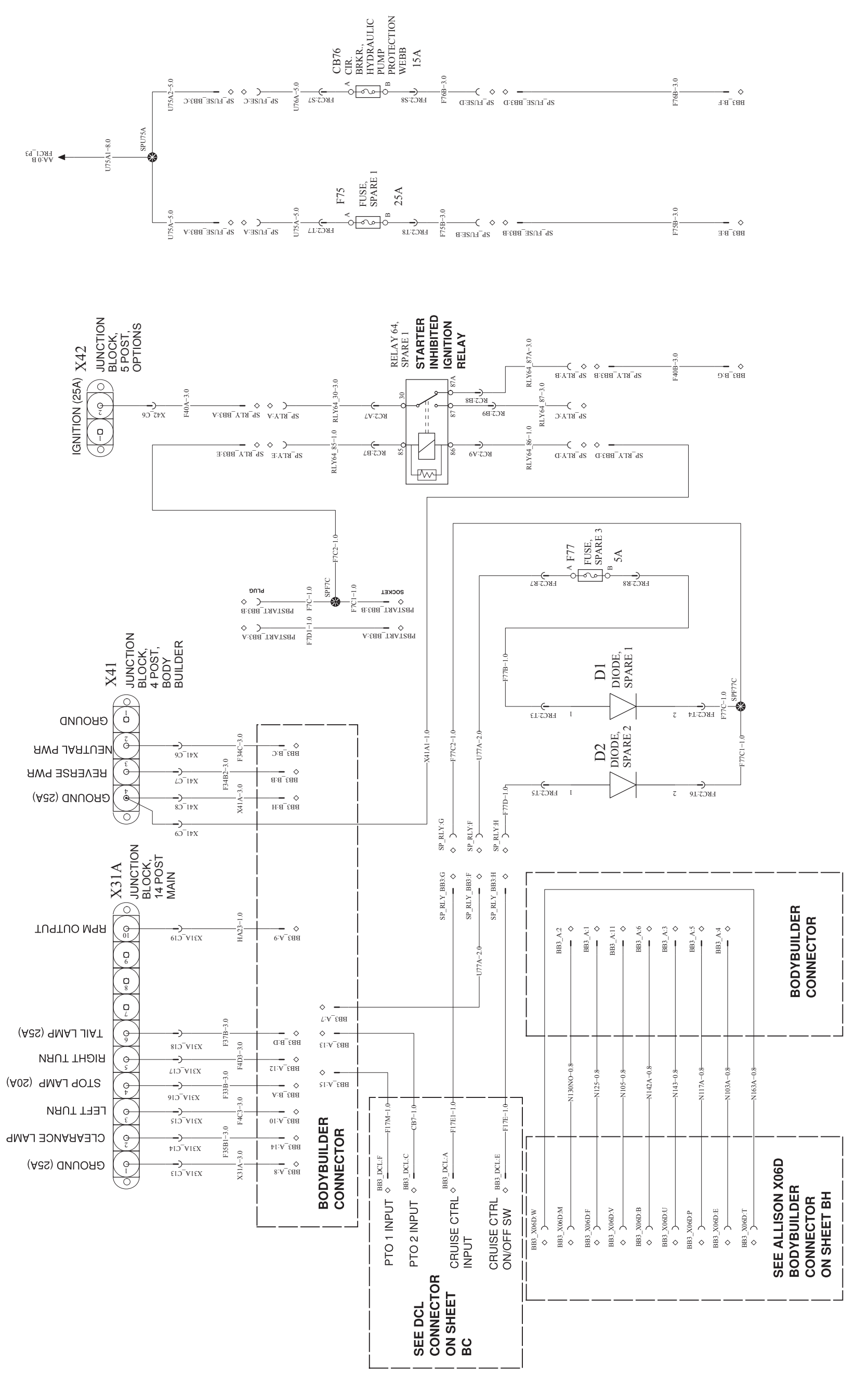
D

E

BODYBUILDER REFUSE SPECIAL

WIRING DIAGRAM: BP

- BATT
- IGN
- EMS
- ILLUM



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VEHICLE ECU 3/5 RHS

WIRING DIAGRAM BQ

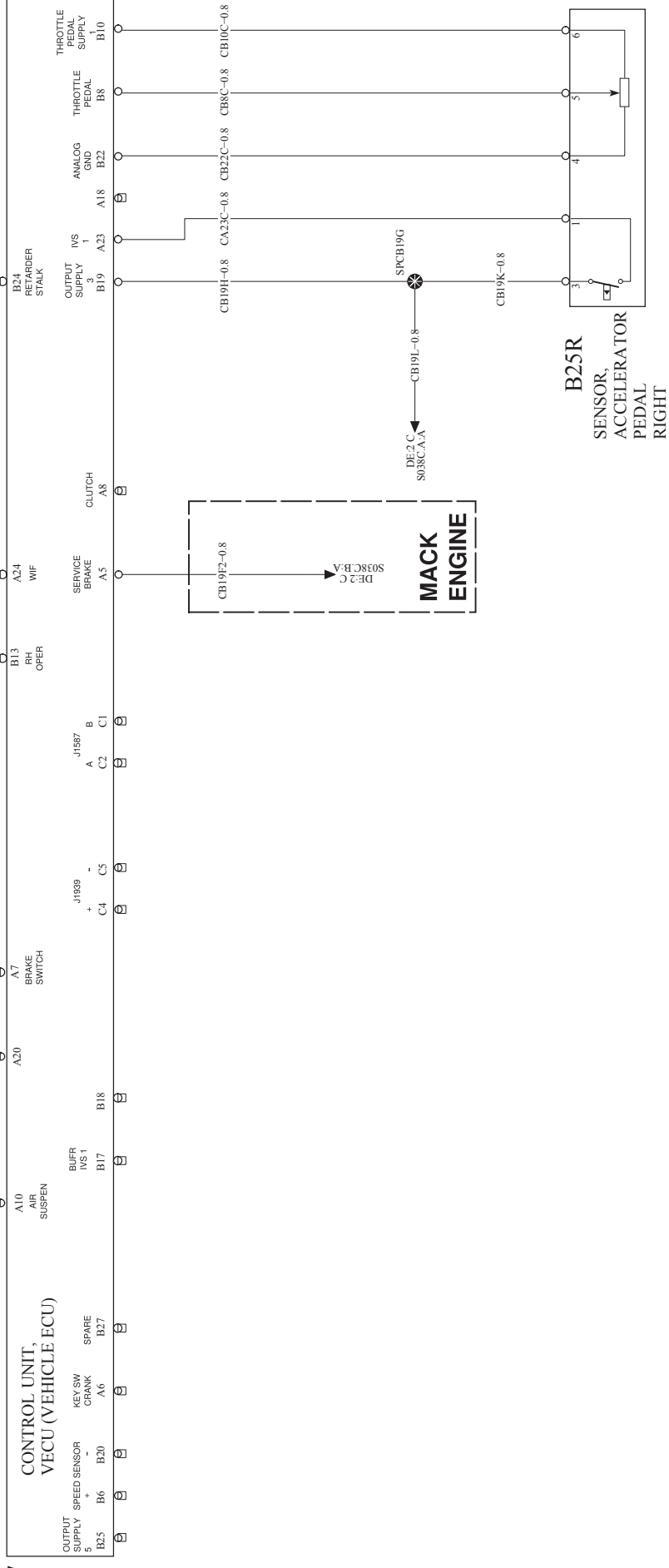
BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

A

A17
CONTROL UNIT,
VECU (VEHICLE ECU)



B

B

C

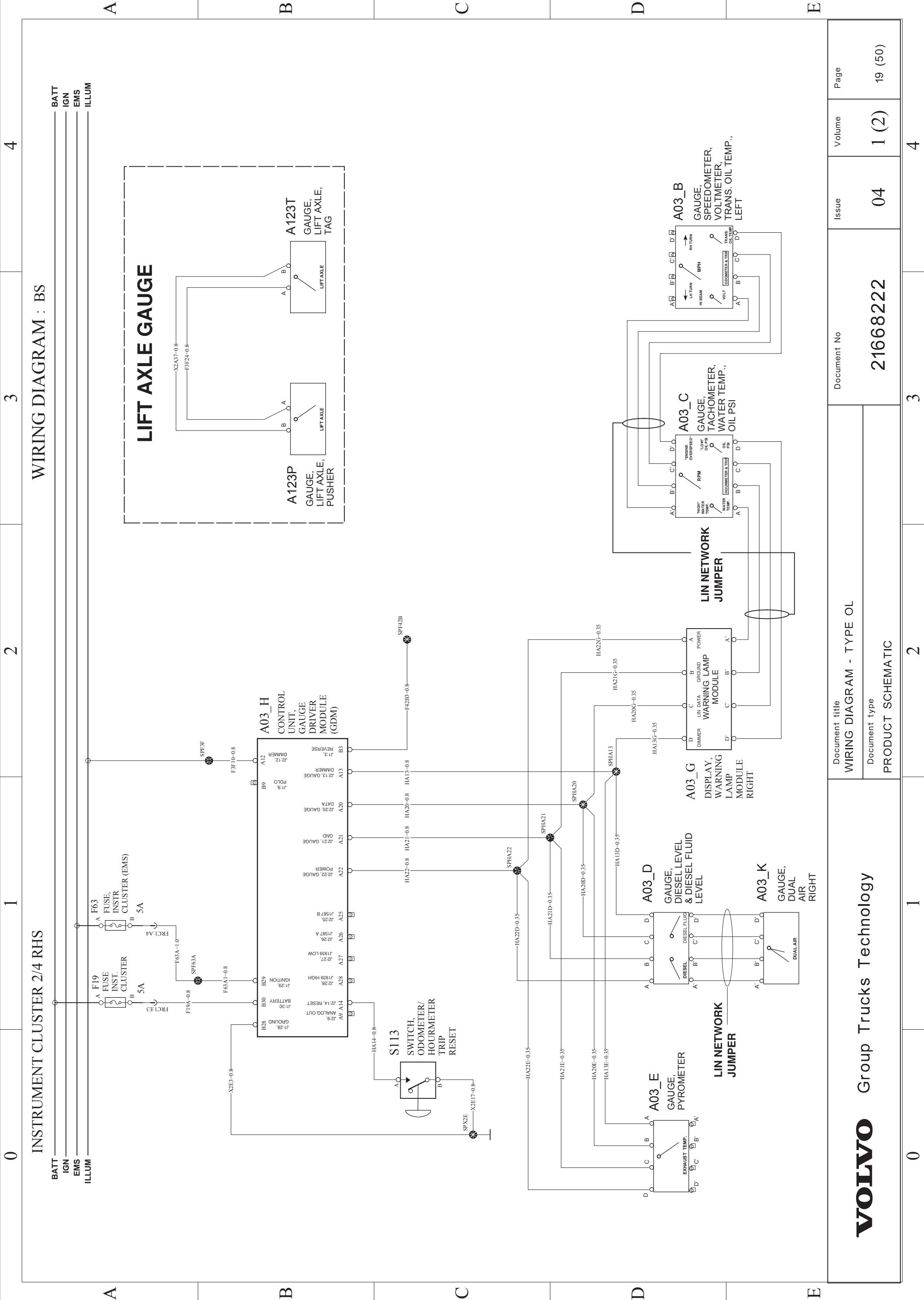
C

D

D

E

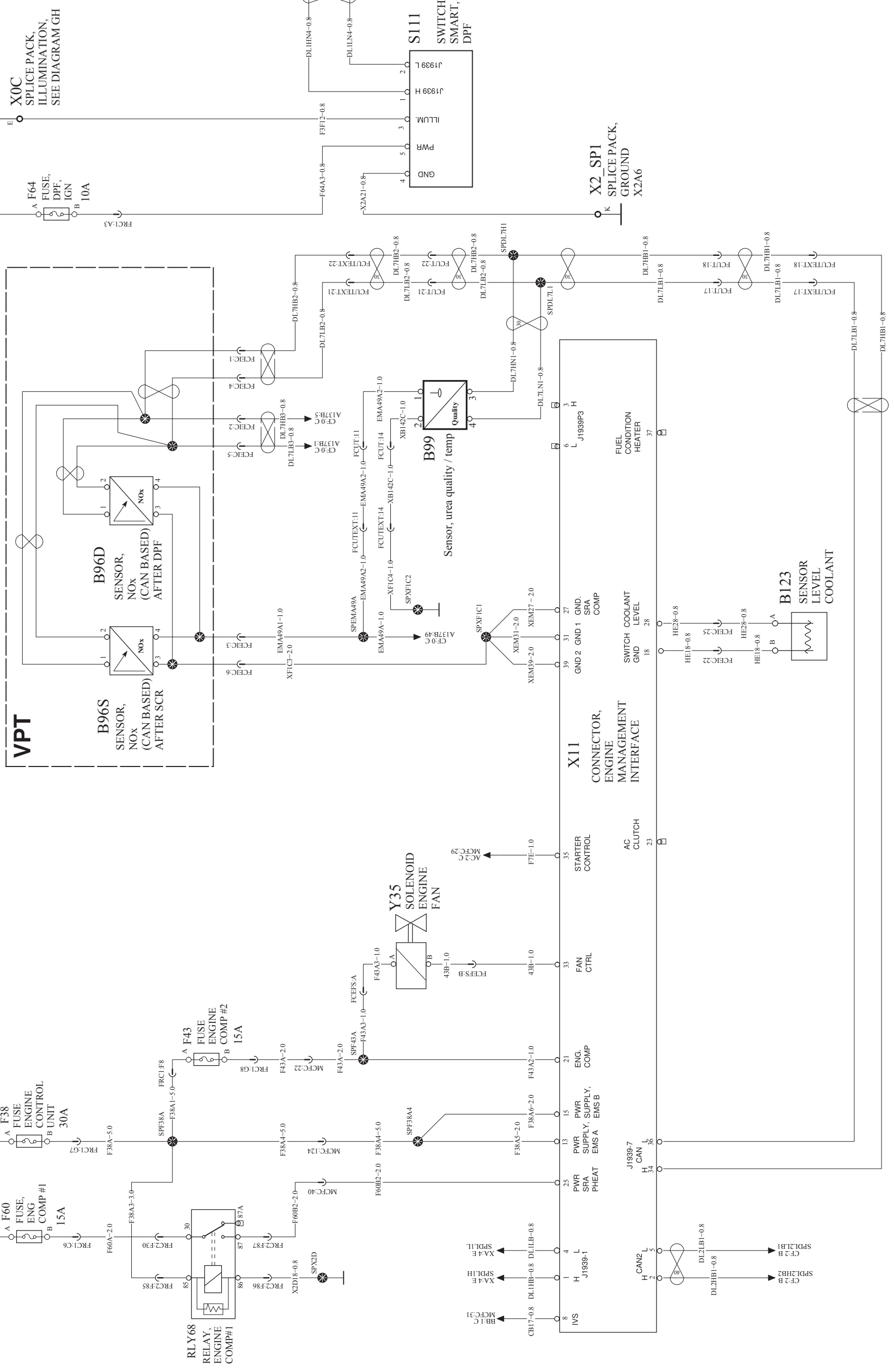
E



ENGINE INTERFACE MP7

WIRING DIAGRAM: CA

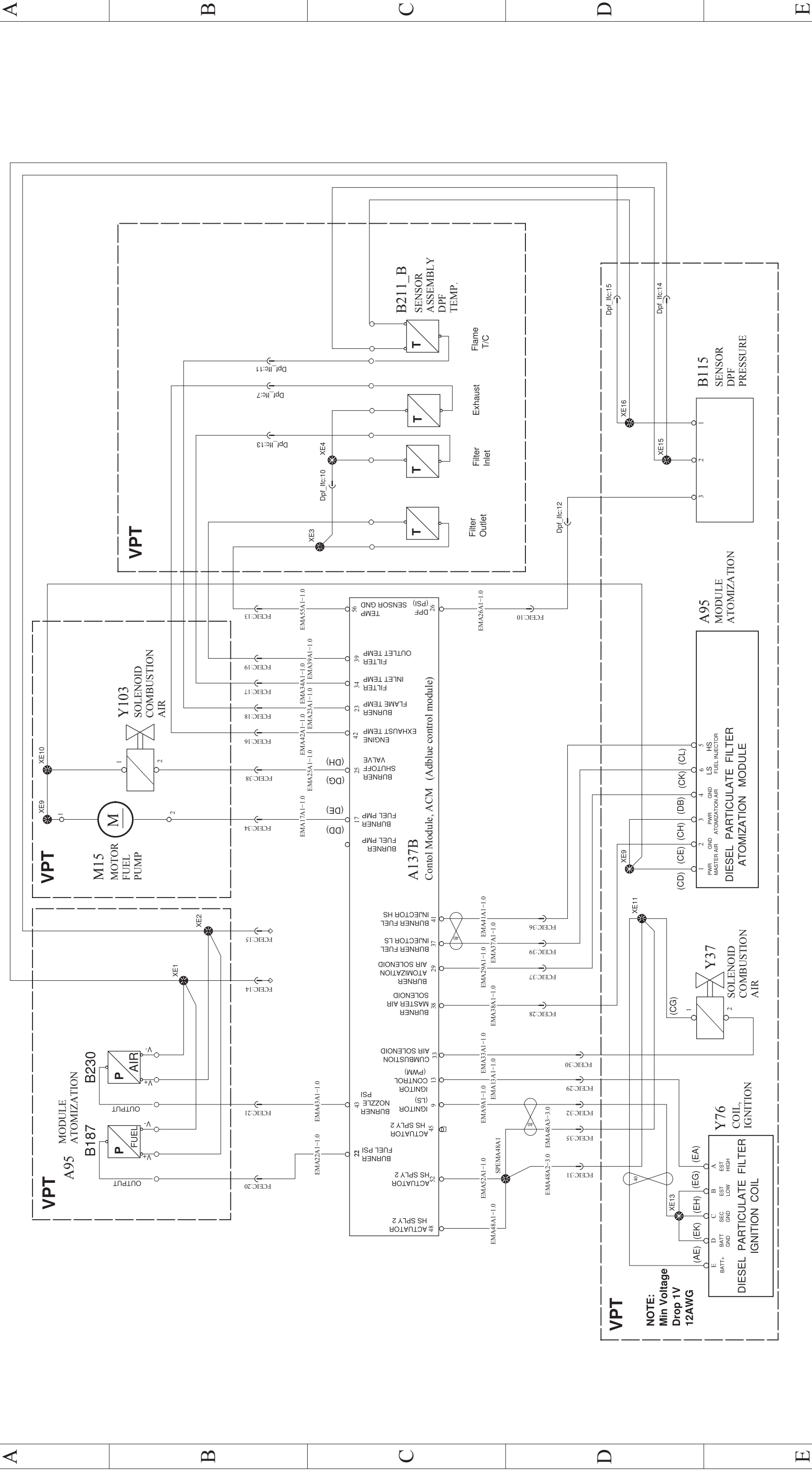
BATT
IGN
EMS
ILLUM



DPF CONTROL SYSTEM

WIRING DIAGRAM: CB

BATT
IGN
EMS
ILLUM



NOTE:
Min Voltage Drop 1V
12AWG

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0

1

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3

4

ENGINE HEATER

WIRING DIAGRAM: CC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

A

B

B

C

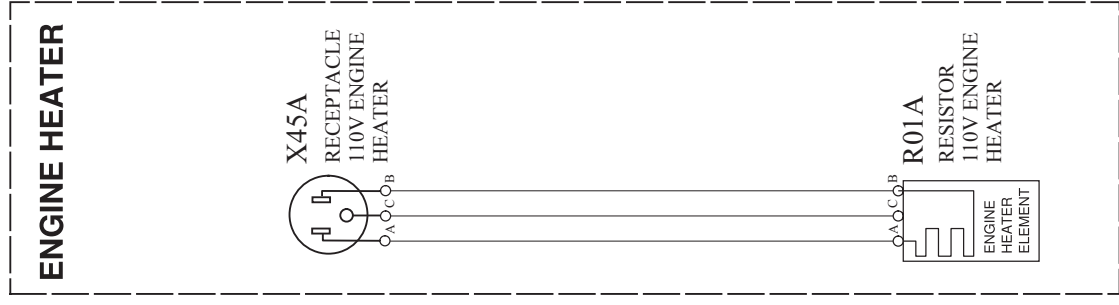
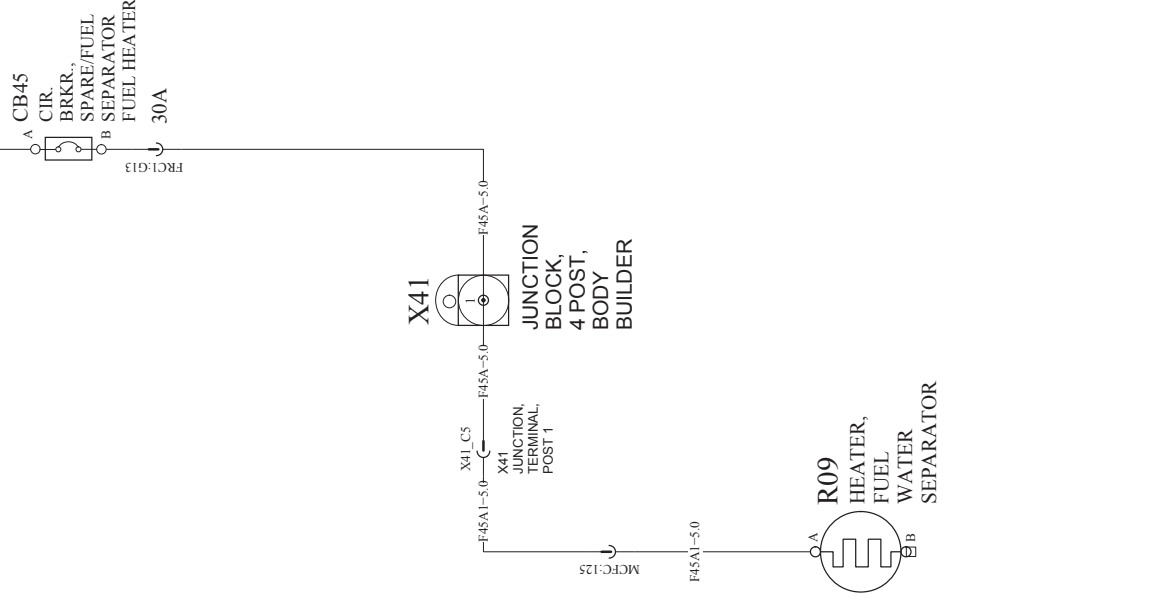
C

D

D

E

E



AUXILIARY COOLING FANS

WIRING DIAGRAM: CD

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

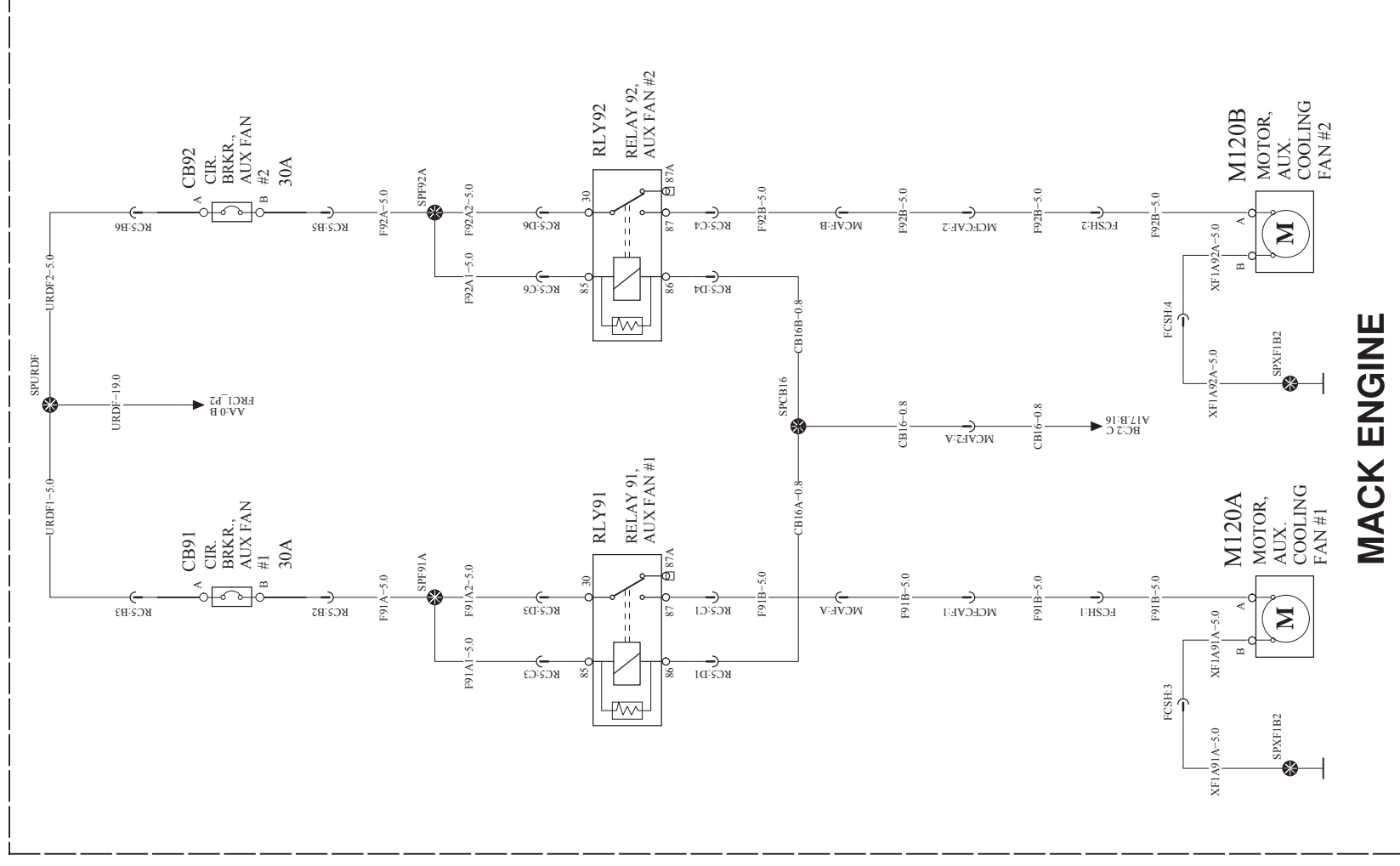
A

B

C

D

E



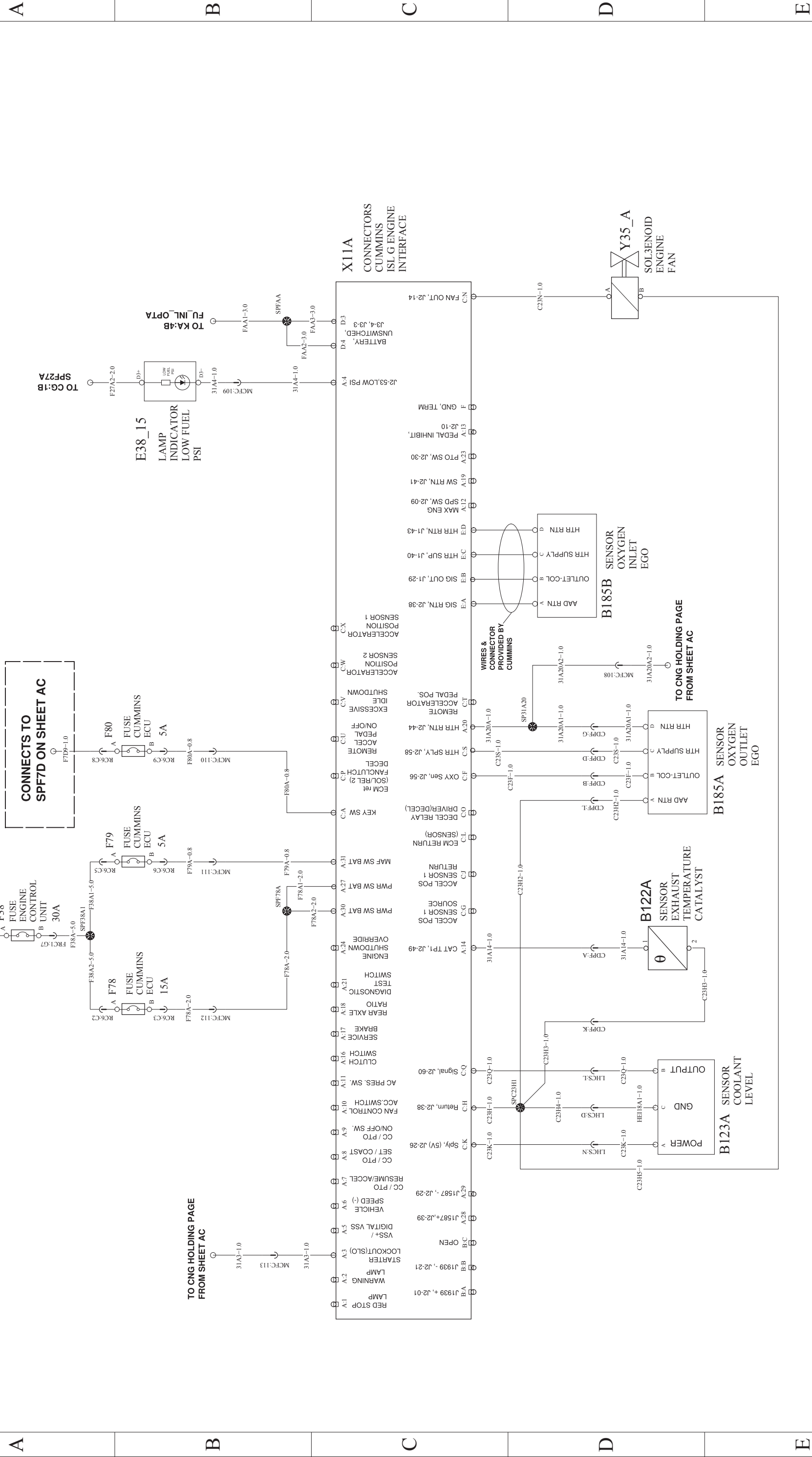
MACK ENGINE

ENGINE INTERFACE CUMMINS ISLG

WIRING DIAGRAM: CE

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



A

B

C

D

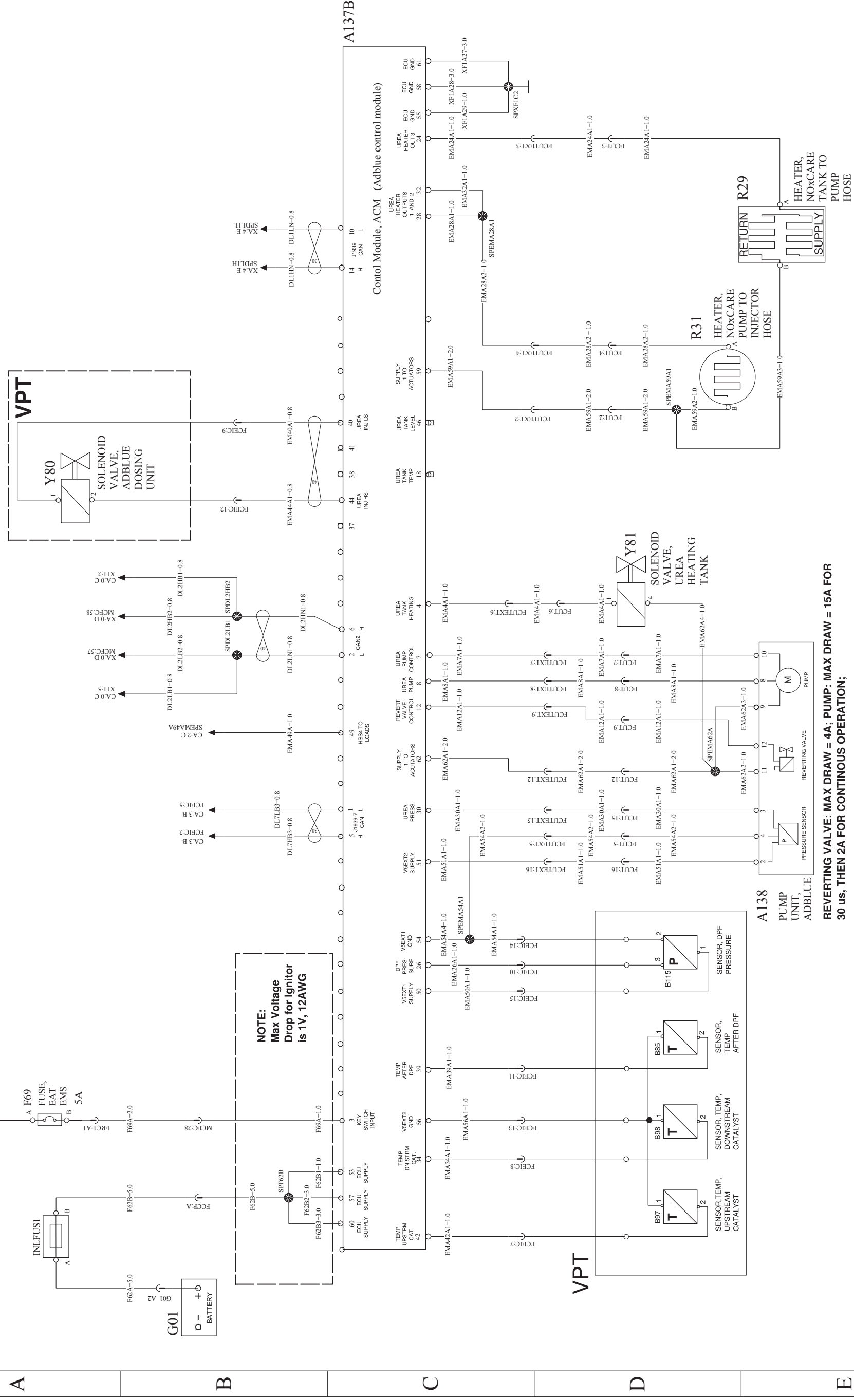
E

UREA DOSING SYSTEM

WIRING DIAGRAM: CF

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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2

3

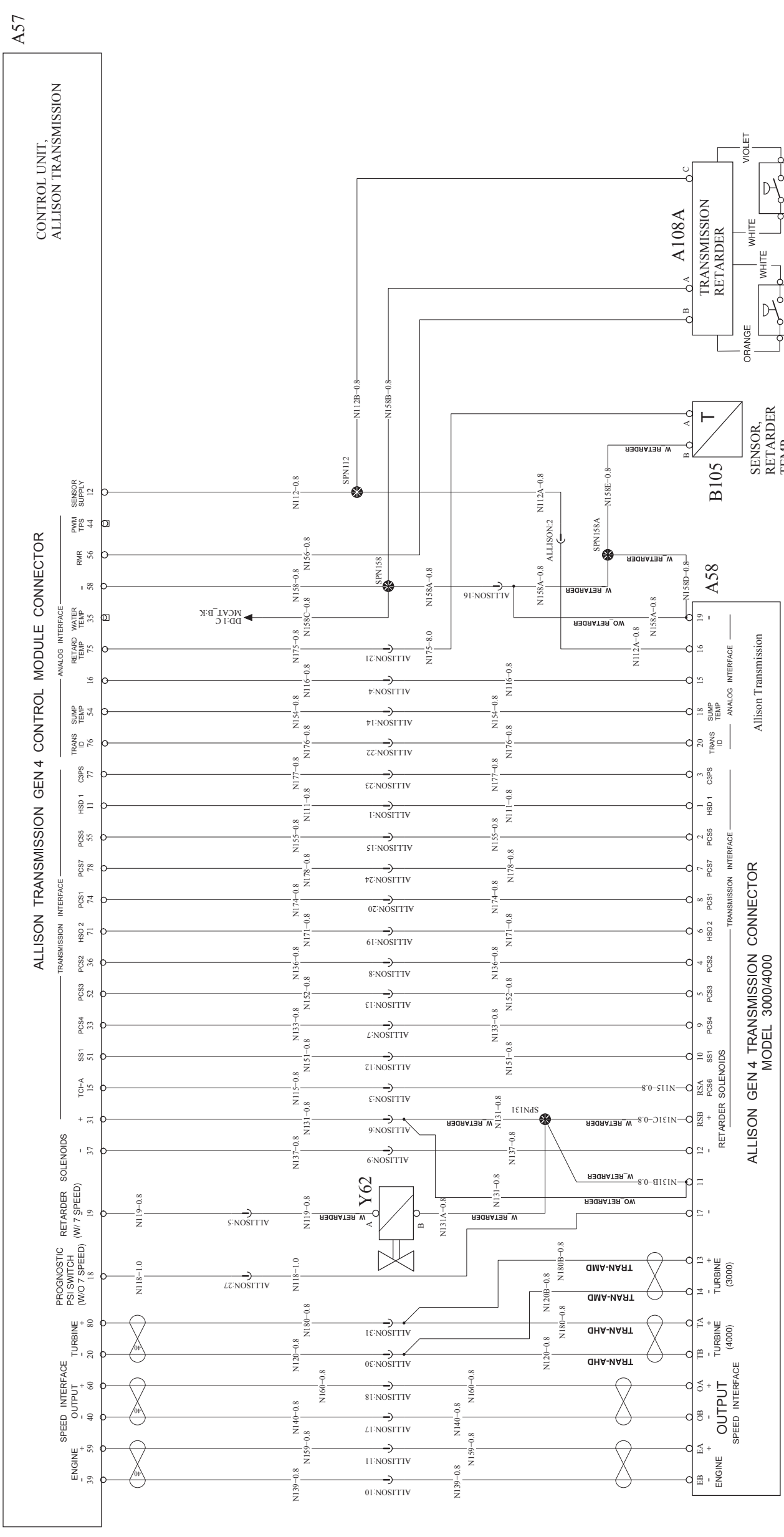
4

TRANSMISSION CONTROL 4th GENERATION 31 PIN1/4

WIRING DIAGRAM: DC

- BATT
- IGN
- EMS
- ILLUM

A



B

C

D

E

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0

1

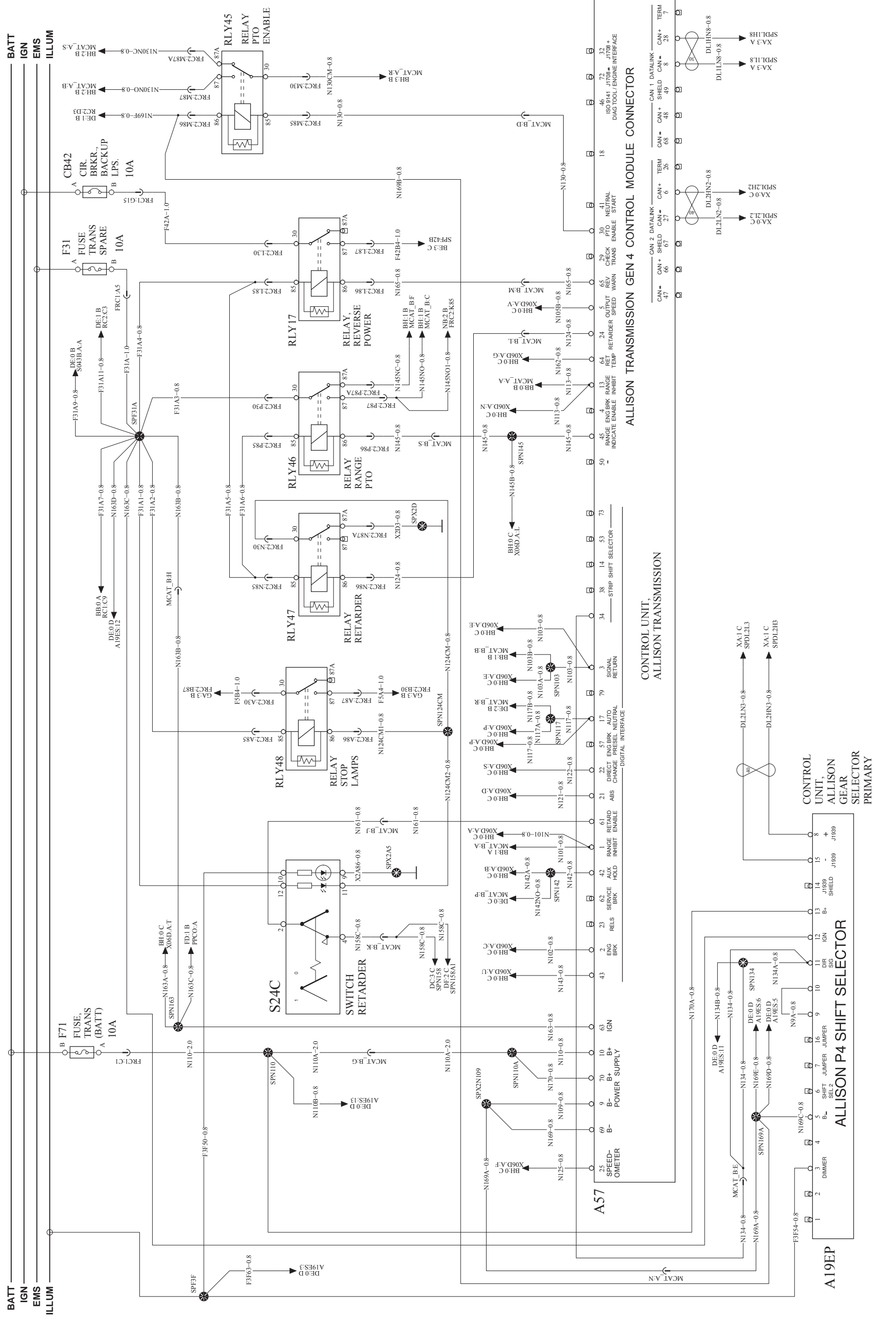
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3

4

TRANSMISSION CONTROL 4th GENERATION 2/4

WIRING DIAGRAM: DD



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WIRING DIAGRAM - TYPE OL
 Document type
PRODUCT SCHEMATIC

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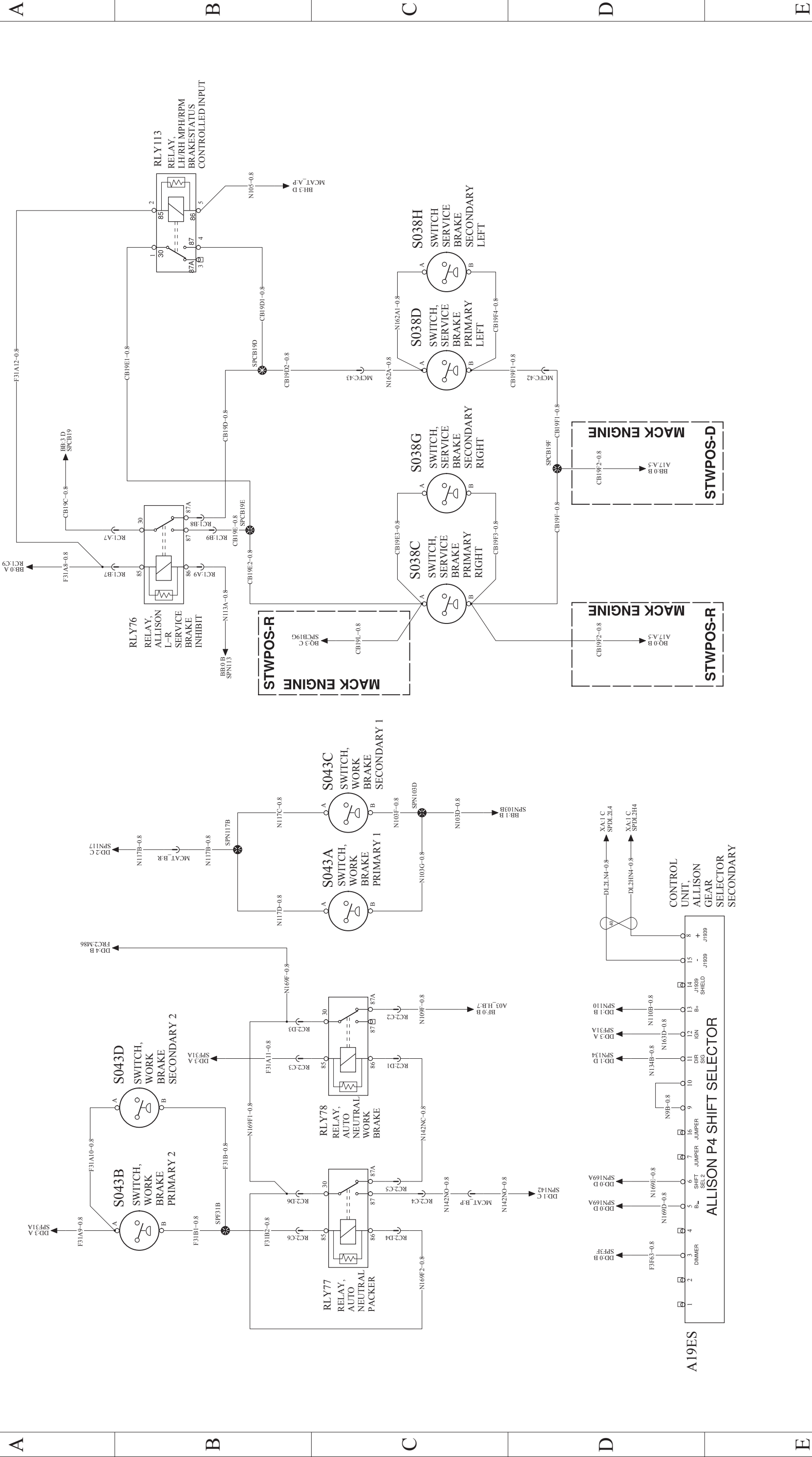
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TRANSMISSION CONTROL 4th GENERATION 3/4

WIRING DIAGRAM: DE

BATT
IGN
EMS
ILLUM



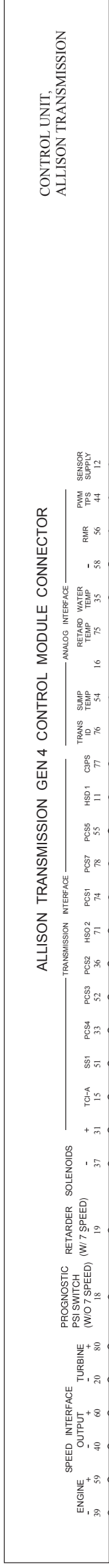
TRANSMISSION CONTROL 4th GENERATION 35 PIN 4/4

WIRING DIAGRAM: DF

- BATT
- IGN
- EMS
- ILLUM

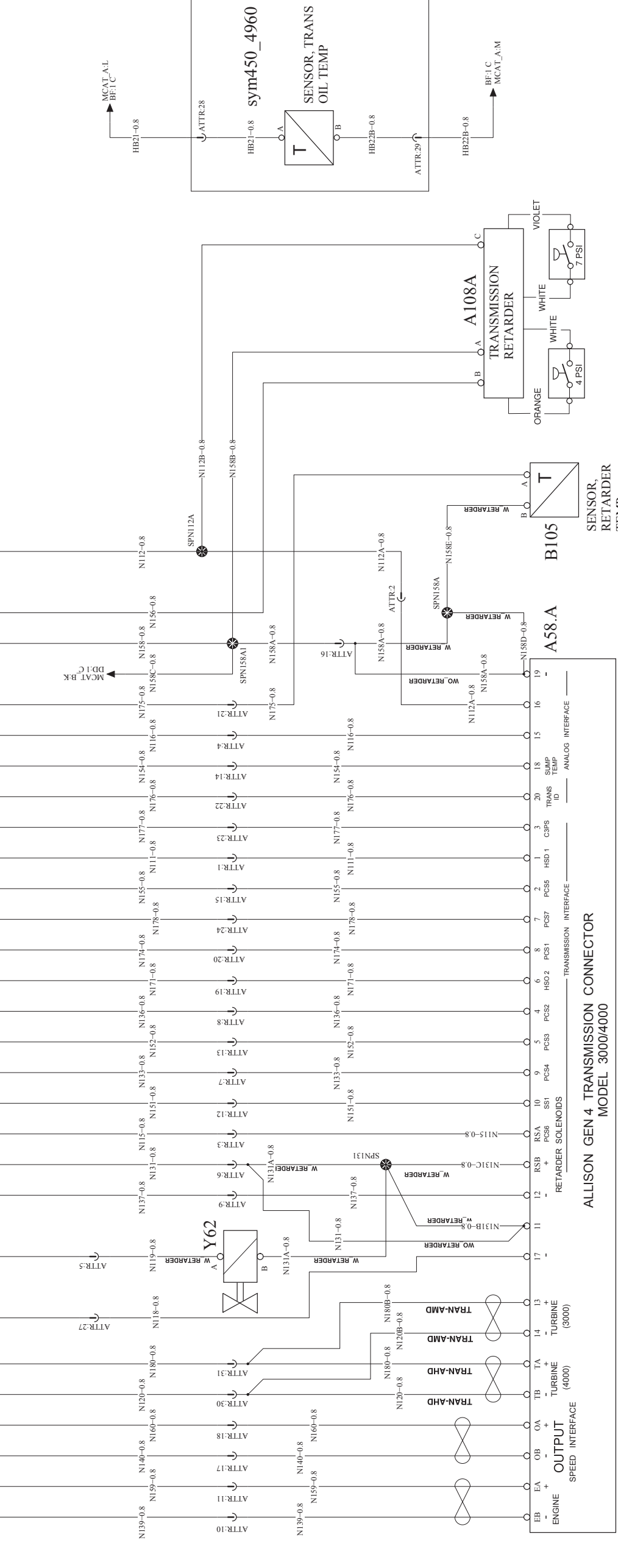
A

A



B

B



C

C

D

D

E

E

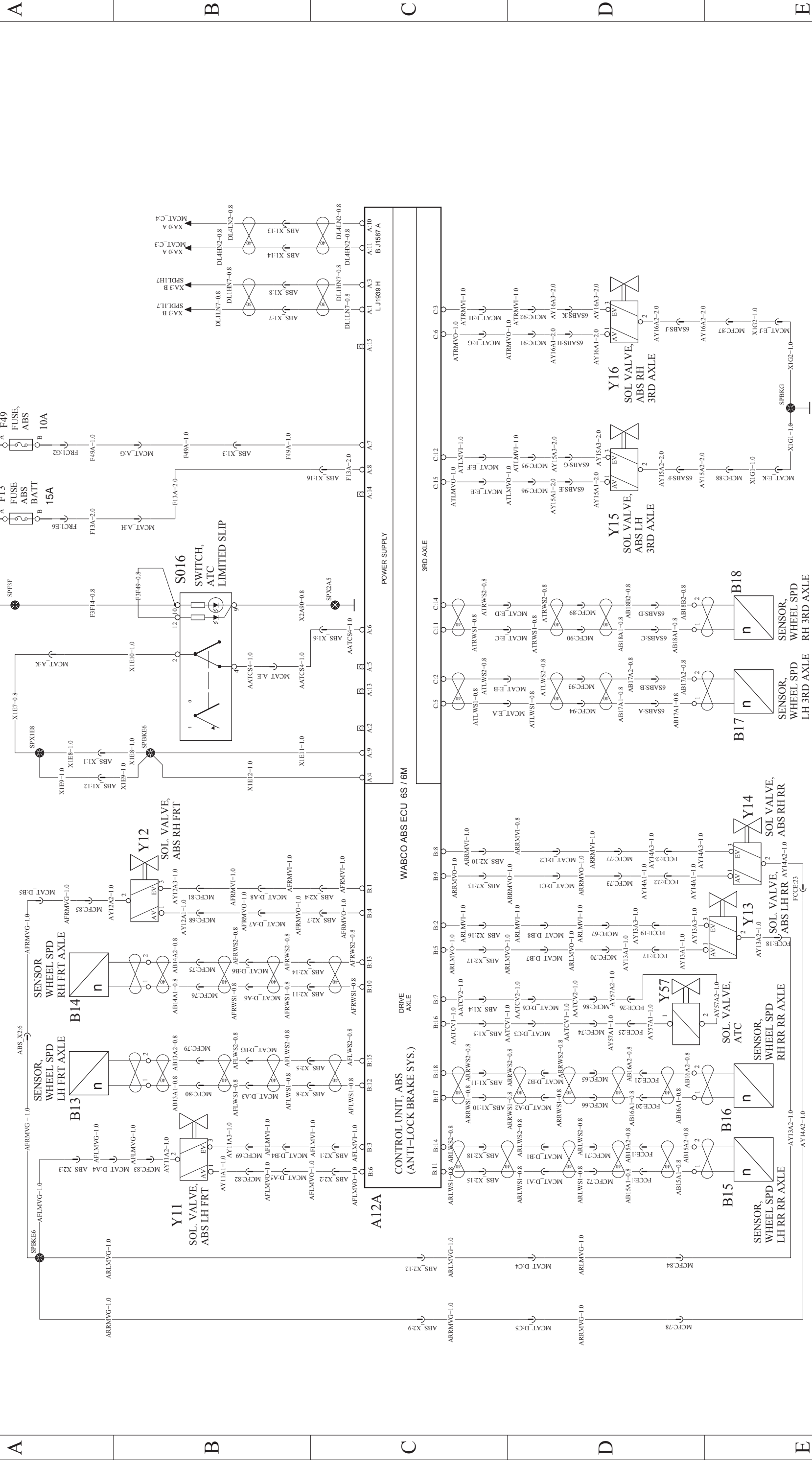
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ABS-MERITOR

BATT
IGN
EMS
ILLUM

WIRING DIAGRAM: EA

BATT
IGN
EMS
ILLUM



ABS-BENDIX

WIRING DIAGRAM: EB

BATT IGN EMS ILLUM

BATT IGN EMS ILLUM

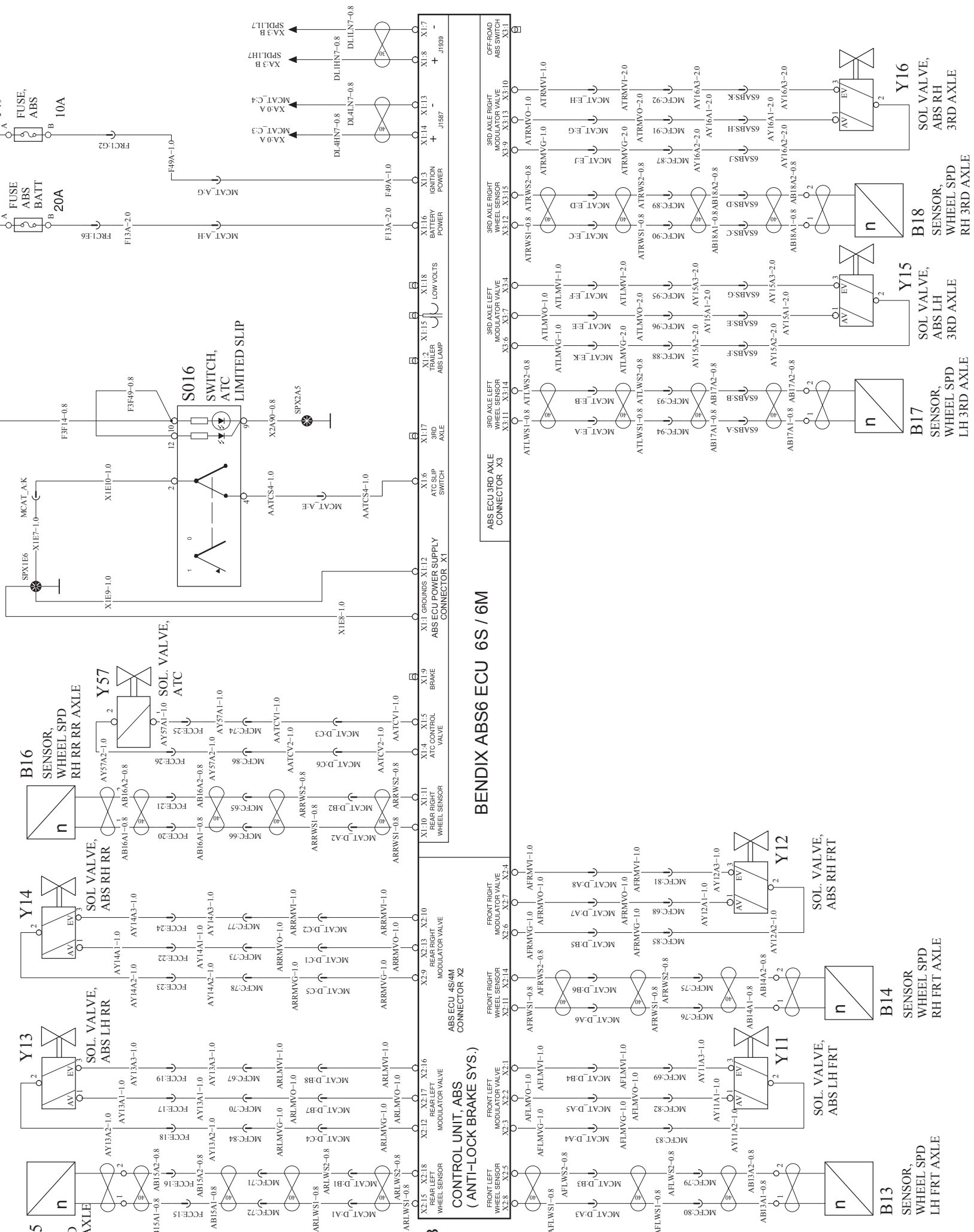
A

B

C

D

E



BENDIX ABS6 ECU 6S / 6M

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Document type
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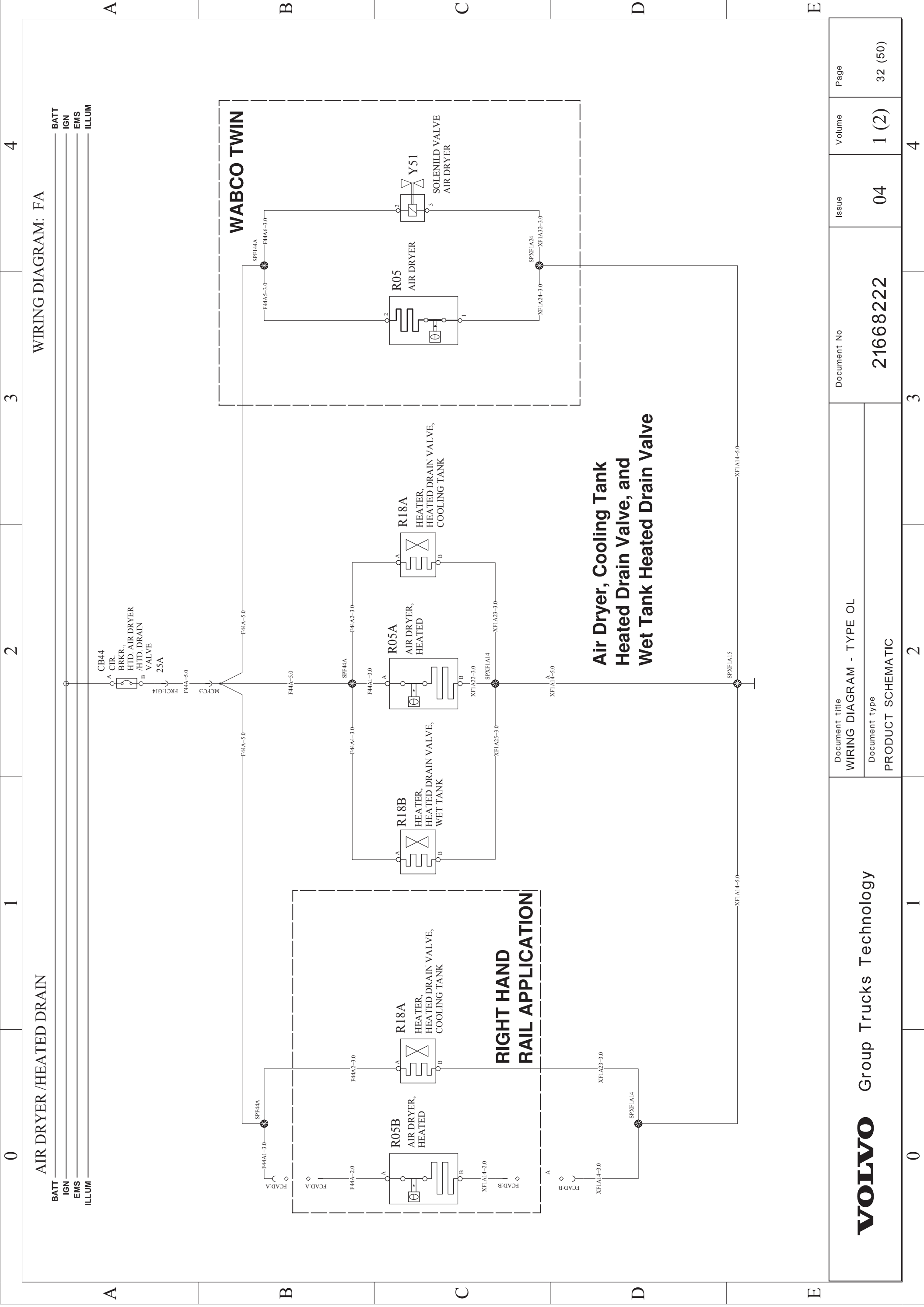
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WIRING DIAGRAM: FA

AIR DRYER /HEATED DRAIN

- BATT
- IGN
- EMS
- ILLUM
- BATT
- IGN
- EMS
- ILLUM



Group Trucks Technology

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WIRING DIAGRAM - TYPE OL

Document type
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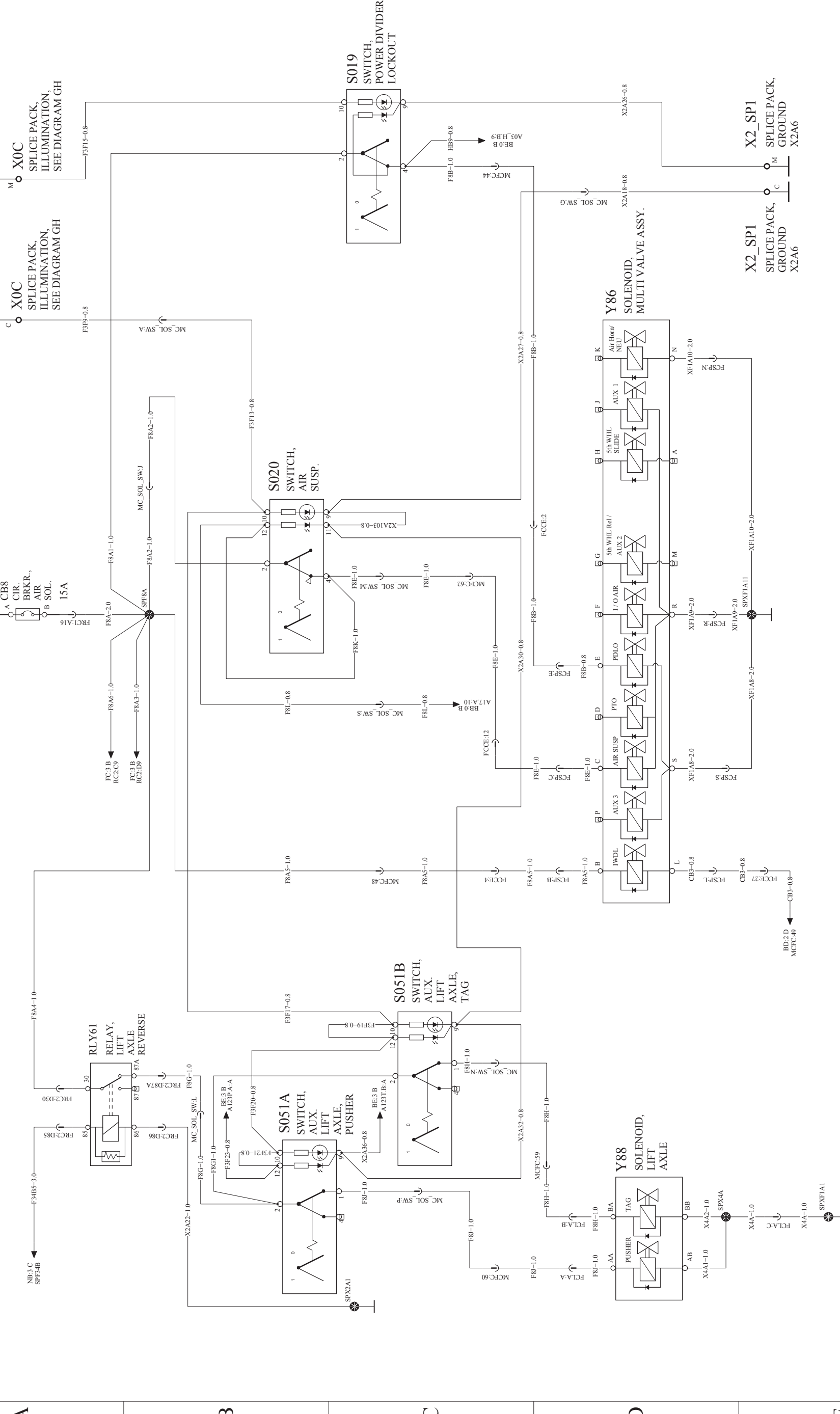
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CHASSIS SOLENOIDS

WIRING DIAGRAM: FB

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



MUNCIE PUMP, BEACON LAMPS, & WORKBRAKE SOLENIOD

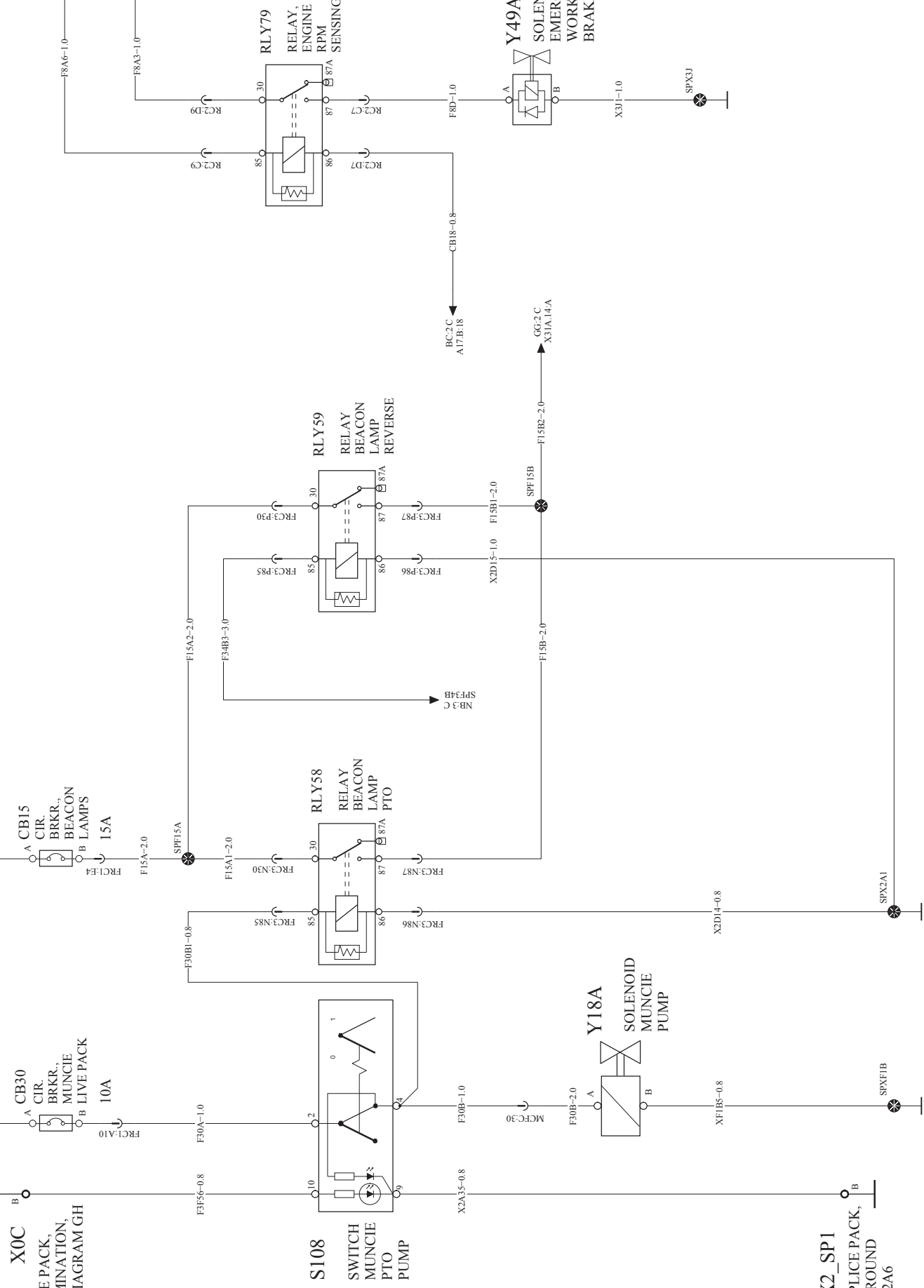
WIRING DIAGRAM: FC

BATT
IGN
EMS
ILLUM

A

A

X0C
SPLICE PACK,
ILLUMINATION,
SEE DIAGRAM GH



B

B

B

B

C

C

D

D

E

E

PARKER PTO

BATT
IGN
EMS
ILLUM

WIRING DIAGRAM: FD

BATT
IGN
EMS
ILLUM

A

A

B

B

C

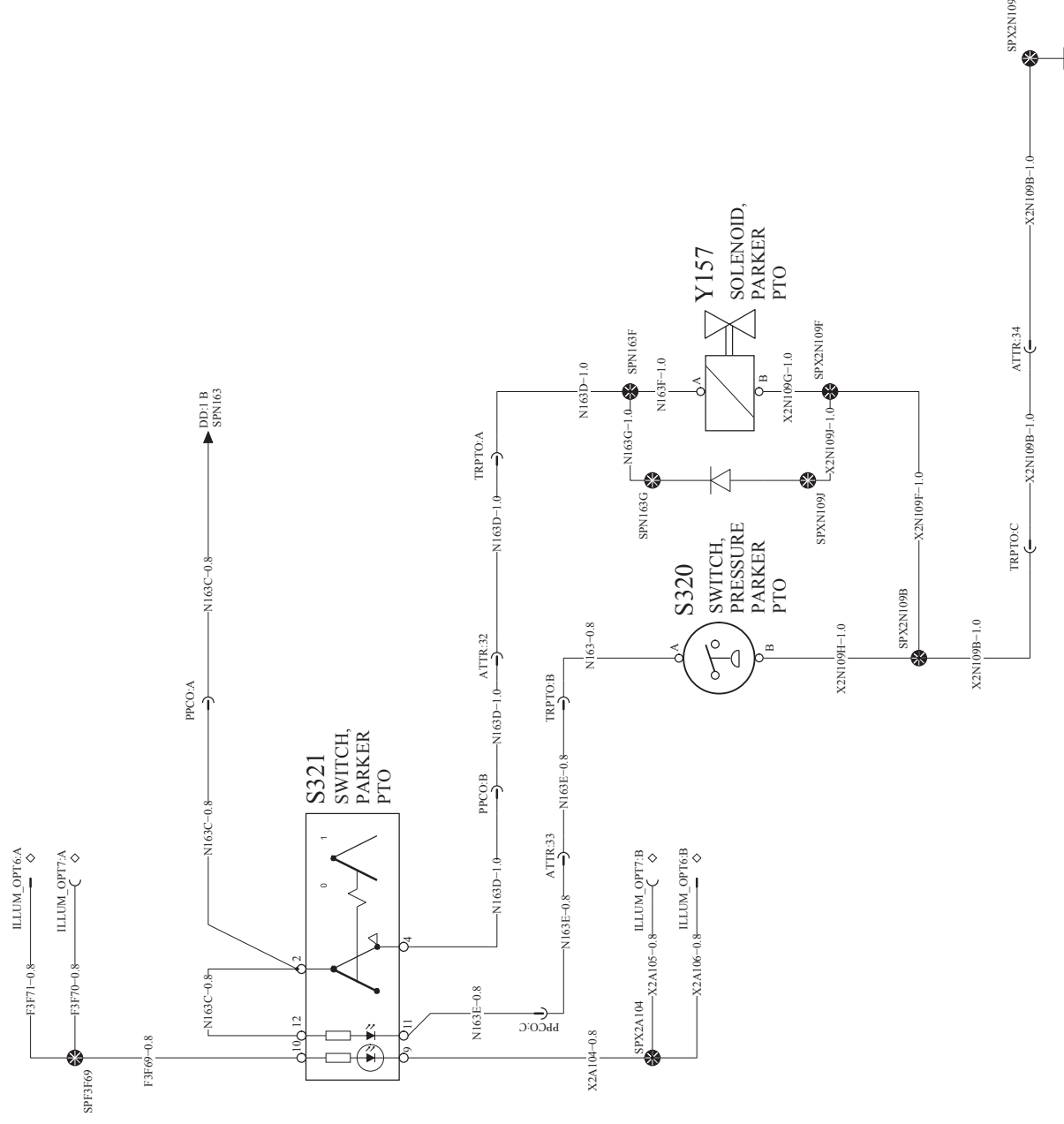
C

D

D

E

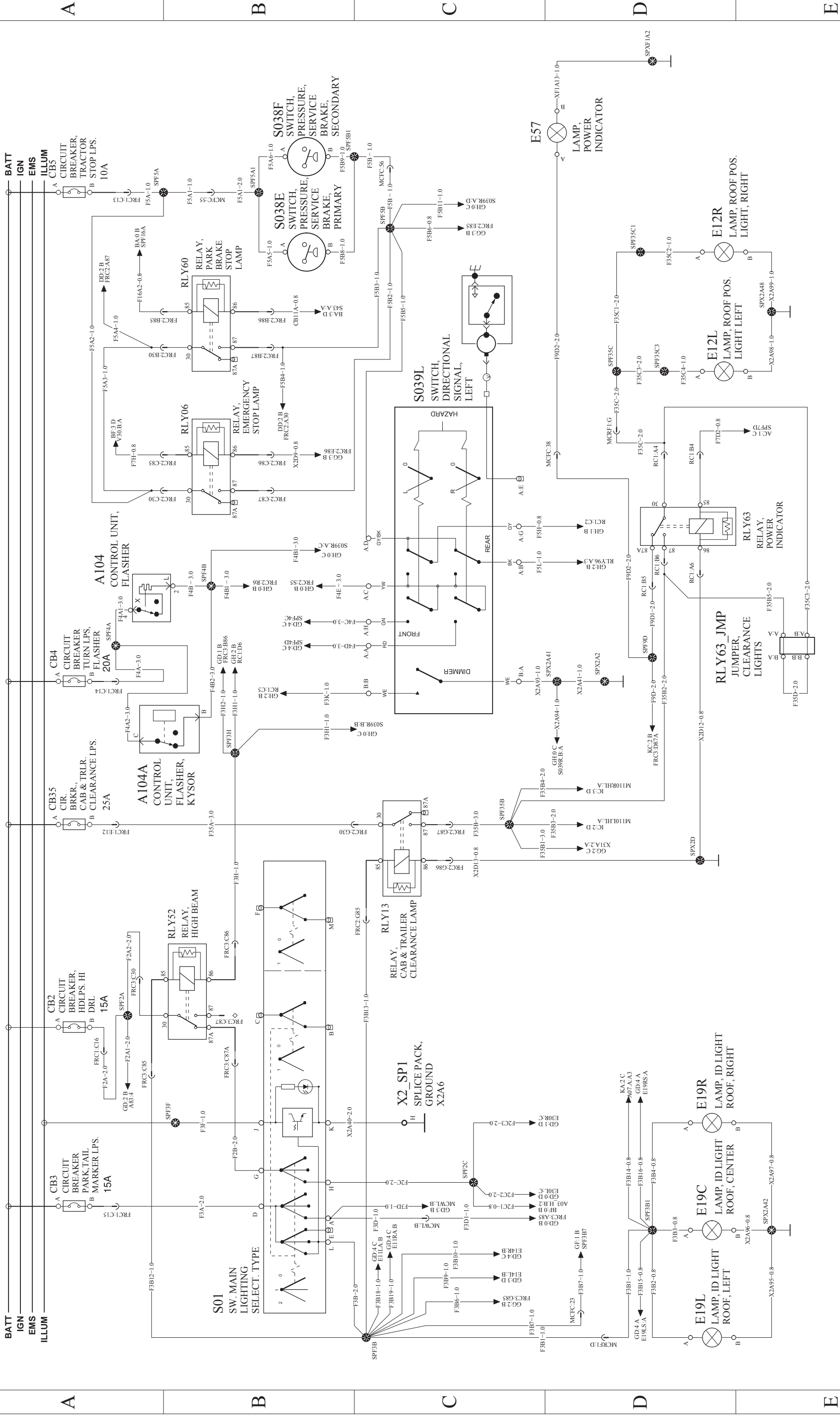
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LH LIGHTING CONTROLS

WIRING DIAGRAM: GA



0

1

2

3

4

A

B

C

D

E

0

1

2

3

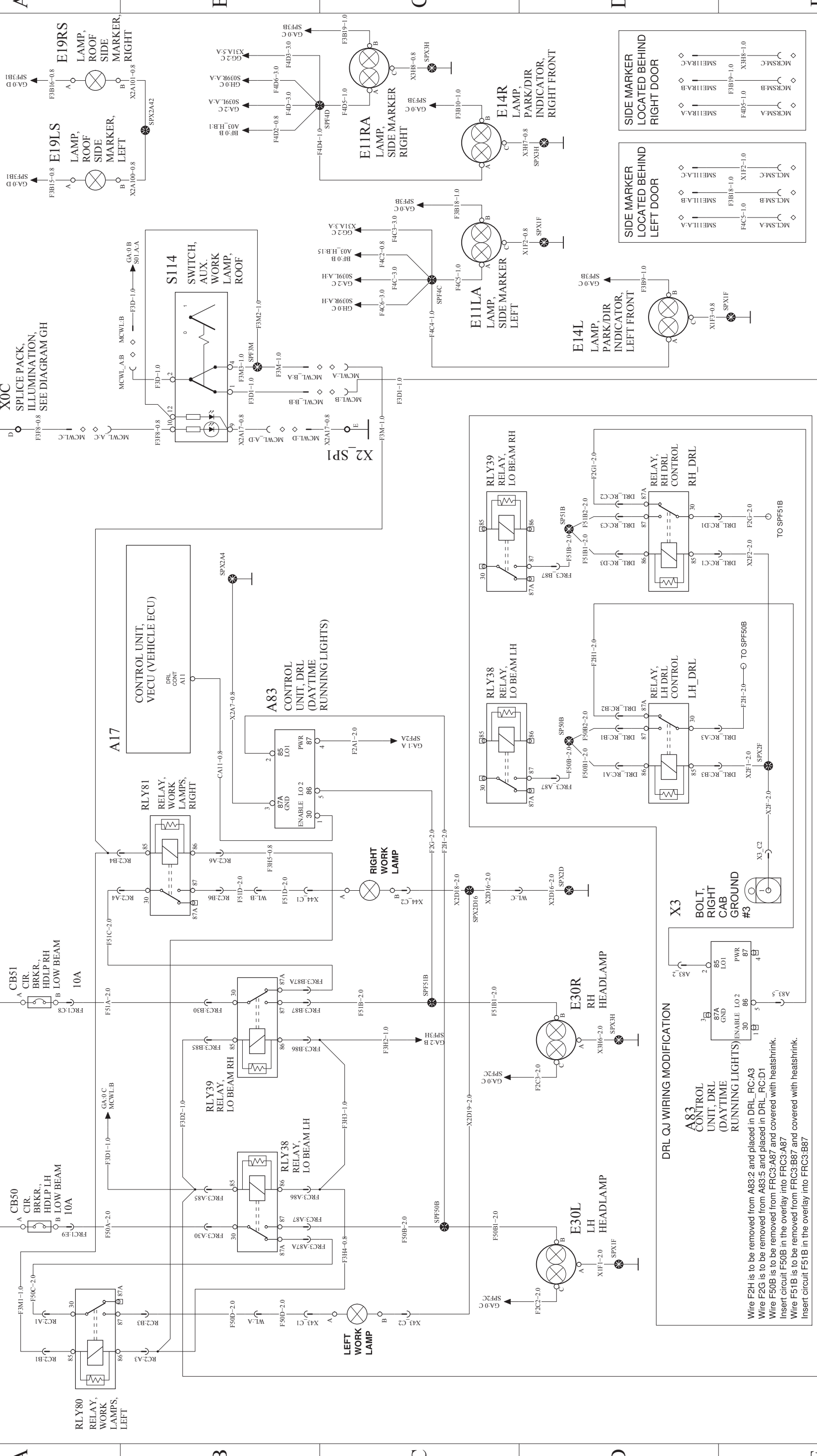
4

LIGHTING- FORWARD/SIGNAL

WIRING DIAGRAM: GD

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



A

B

C

D

E

A

B

C

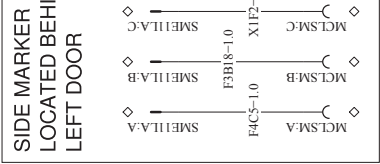
D

E

DRL QJ WIRING MODIFICATION

A83 CONTROL UNIT, DRL RUNNING LIGHTS)

Wire F2H is to be removed from A83:2 and placed in DRL_RC:A3
 Wire F2G is to be removed from A83:5 and placed in DRL_RC:D1
 Wire F50B is to be removed from FRC3:A87 and covered with heatshrink.
 Insert circuit F50B in the overlay into FRC3:A87
 Wire F51B is to be removed from FRC3:B87 and covered with heatshrink.
 Insert circuit F51B in the overlay into FRC3:B87



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LIGHTING -TAIL LAMP

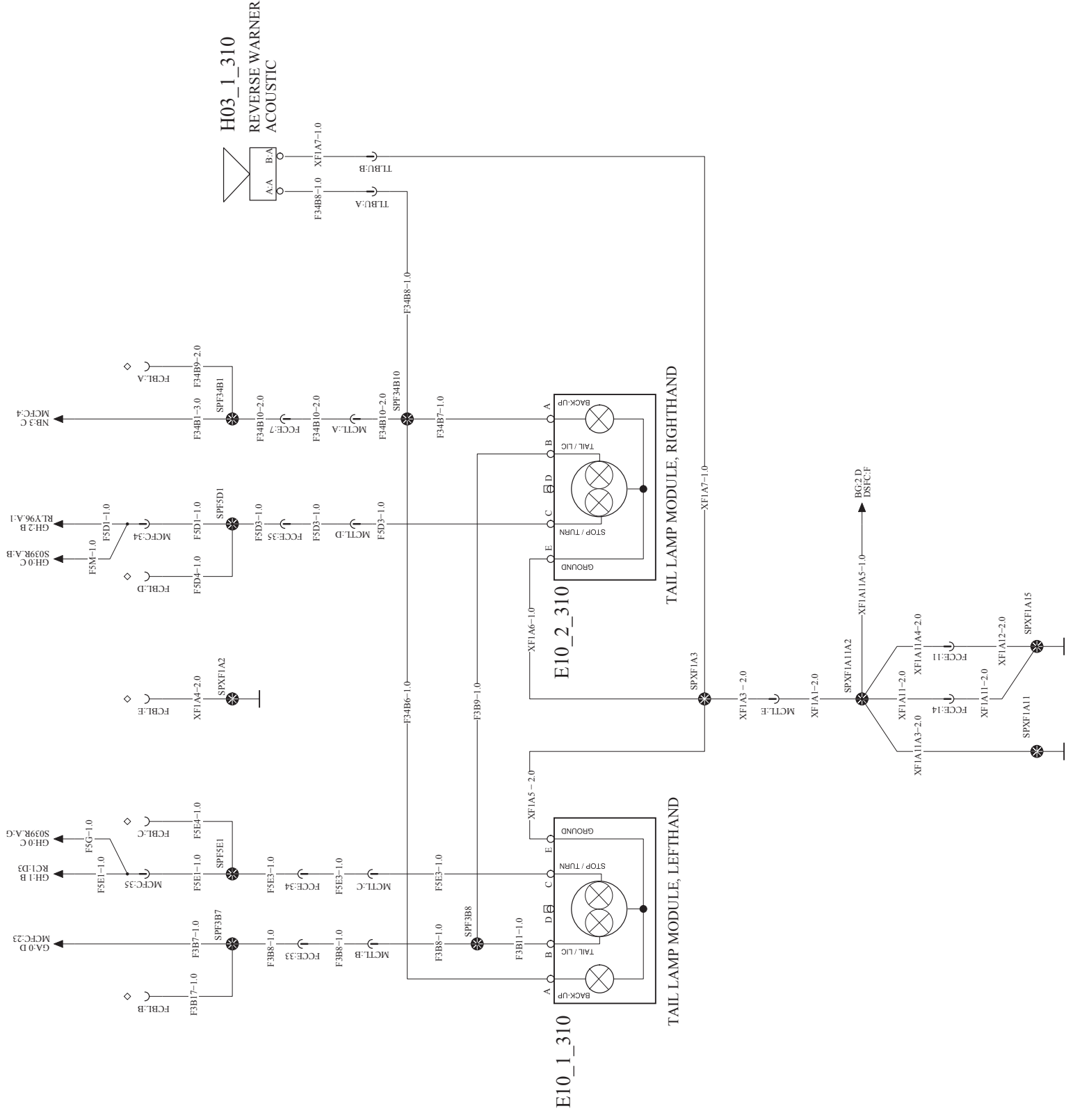
WIRING DIAGRAM: GF

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

A



A

B

B

C

C

D

D

E

E



Group Trucks Technology

Document title
WIRING DIAGRAM - TYPE OL

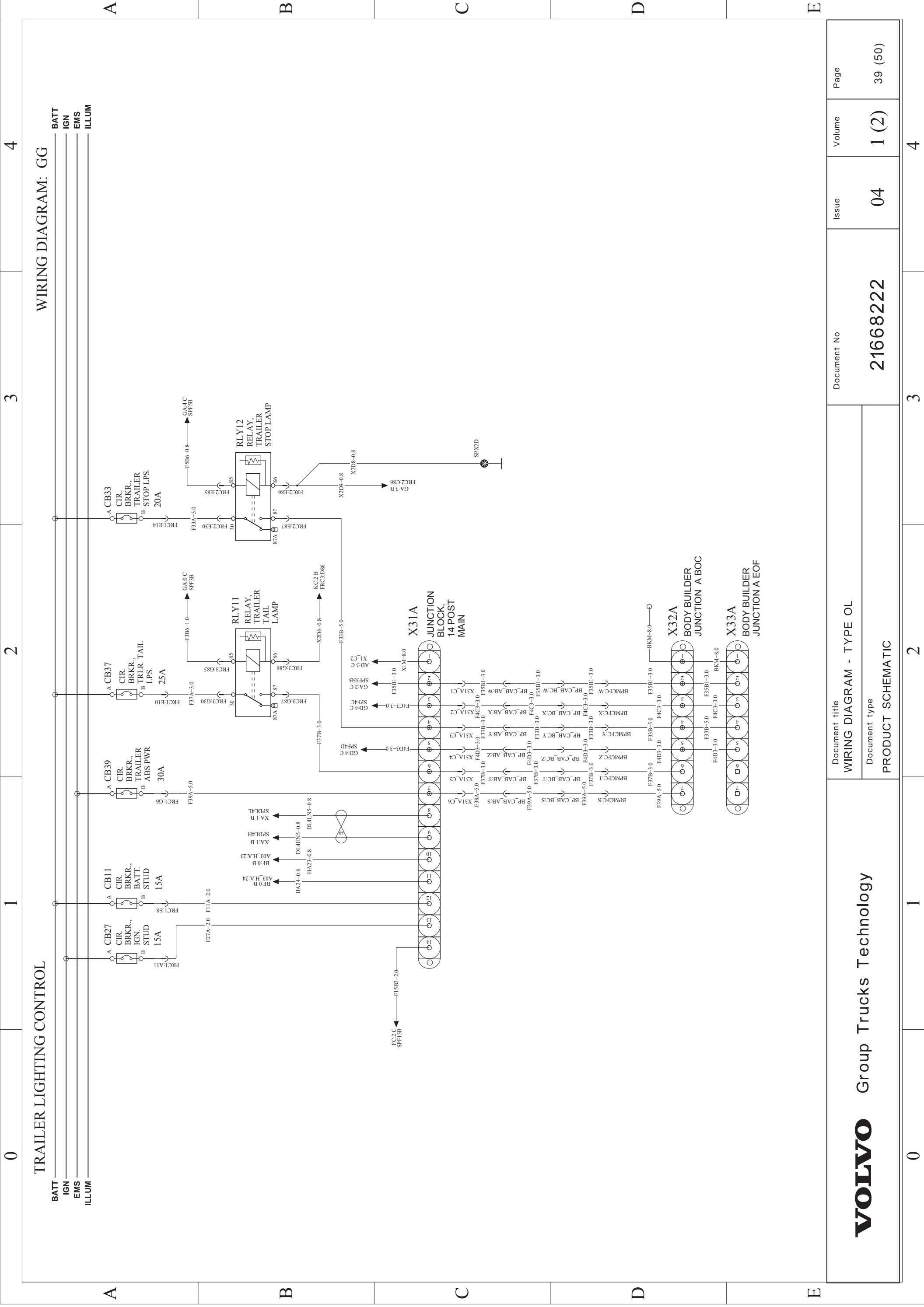
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TRAILER LIGHTING CONTROL

WIRING DIAGRAM: GG

0

1

2

3

4

A

B

C

D

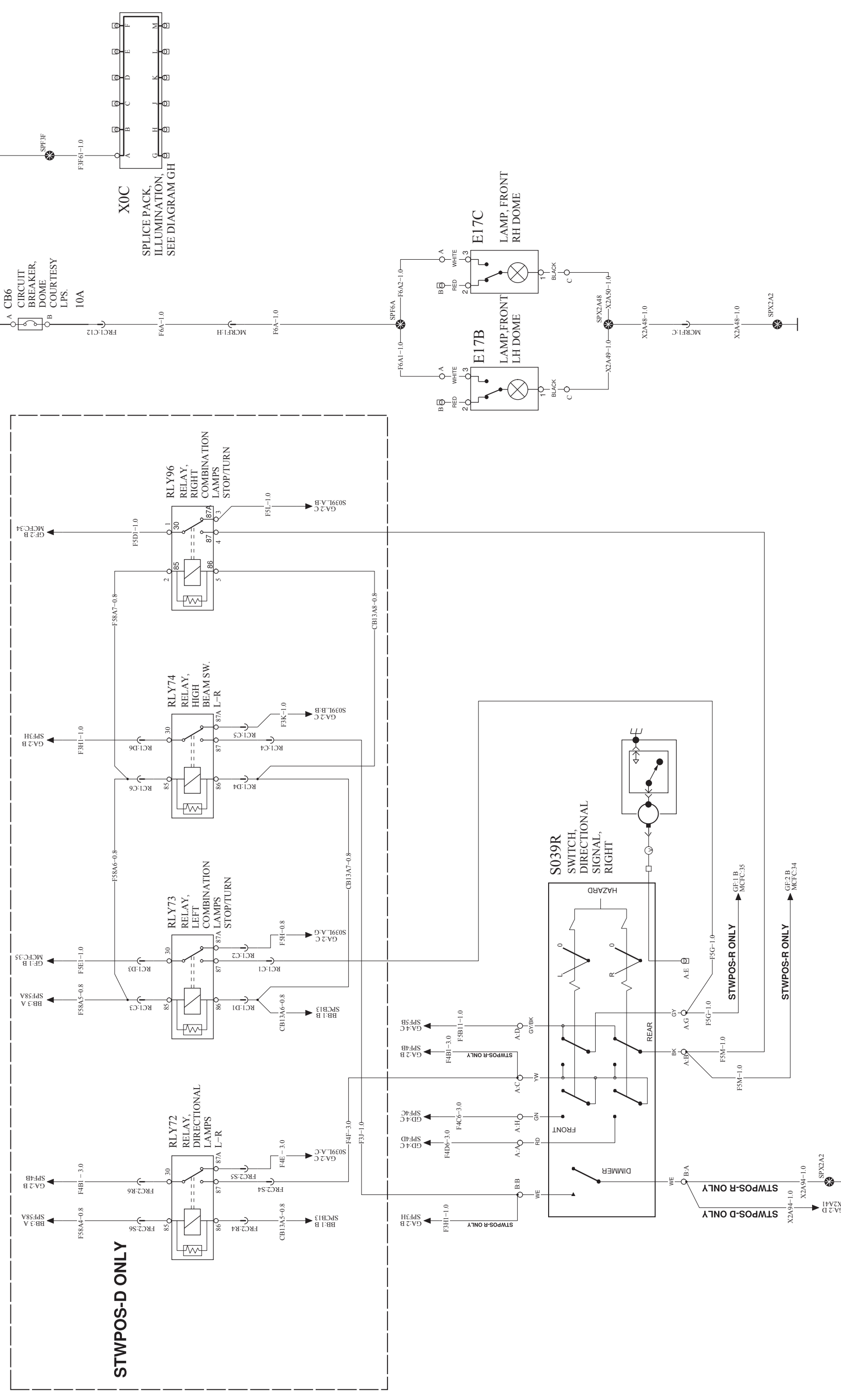
E

LH/RH LIGHTING CONTROLS & INTERIOR LIGHTING

WIRING DIAGRAM: GH

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



Document title
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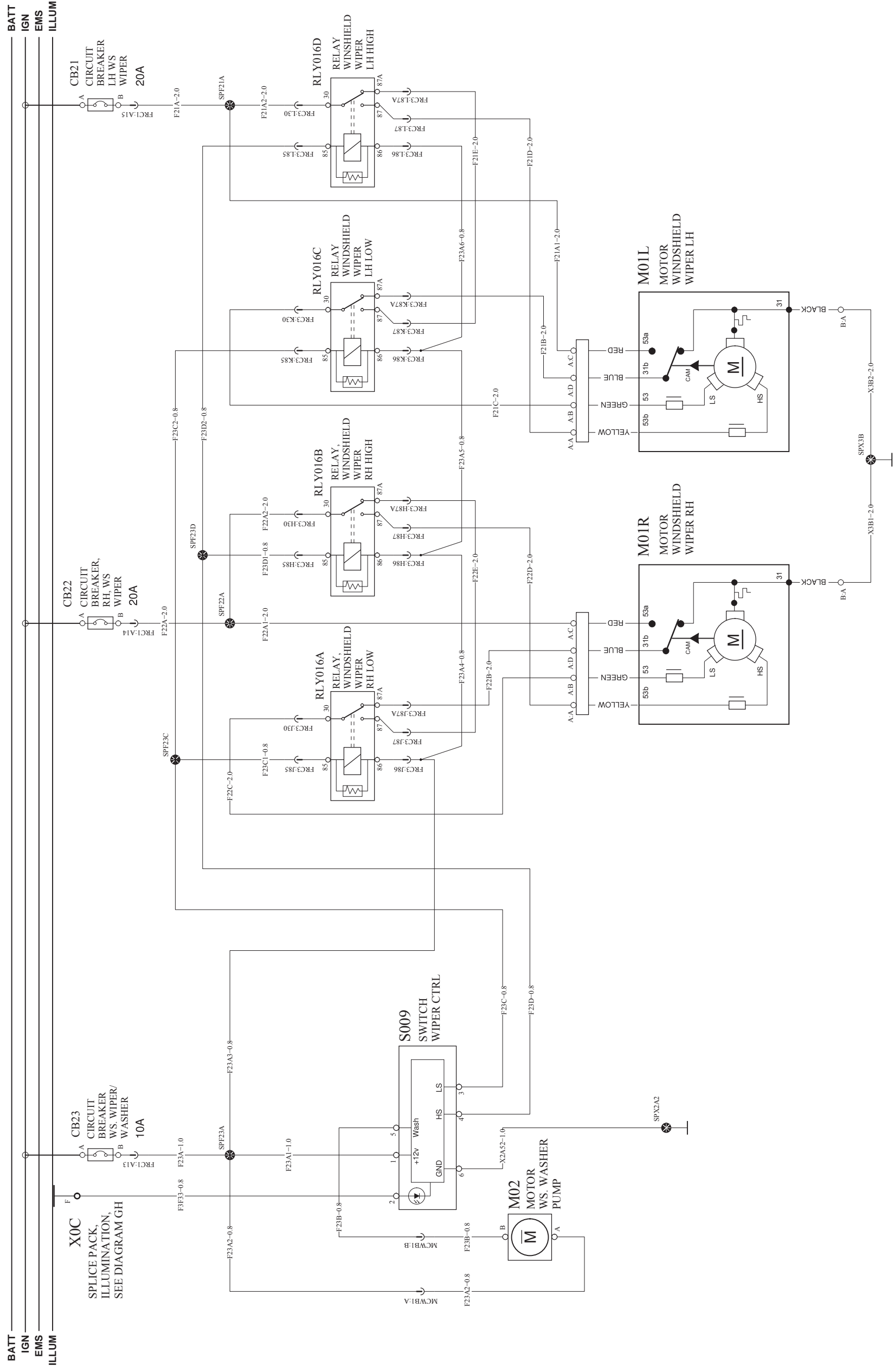
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WINDSHIELD WASHER

WIRING DIAGRAM: GP



A

B

C

D

E

A

B

C

D

E

HORN WIRING

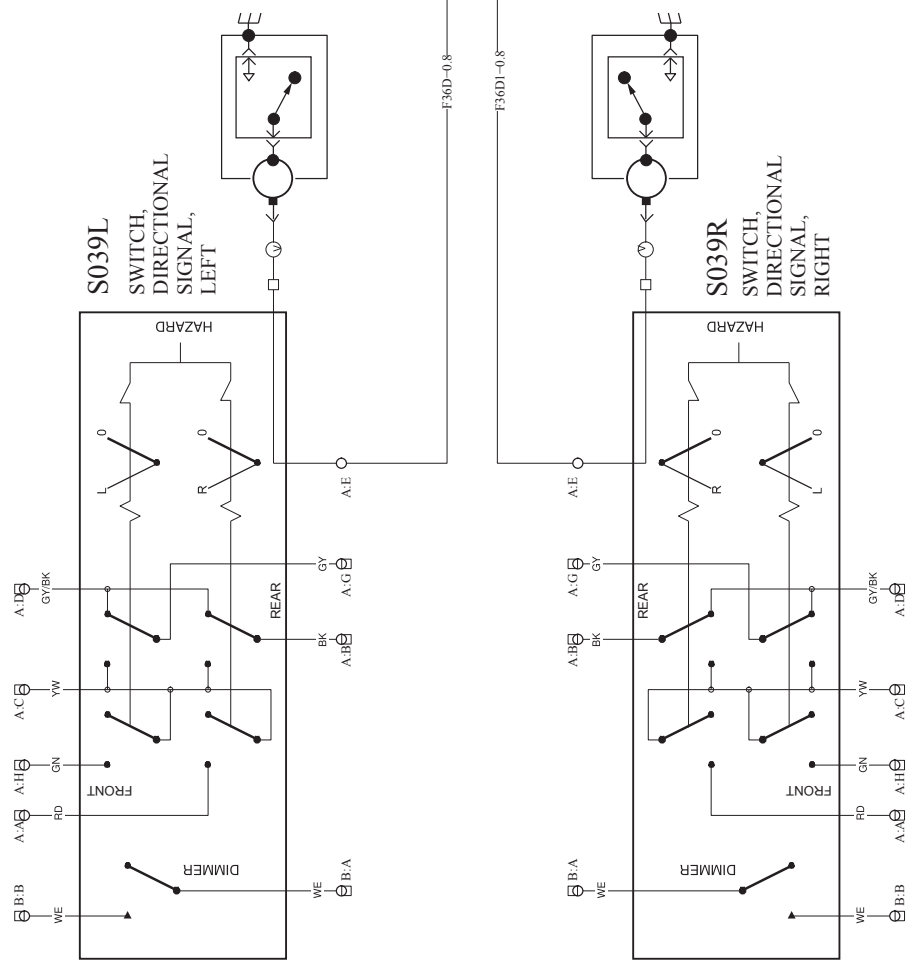
WIRING DIAGRAM: GQ

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

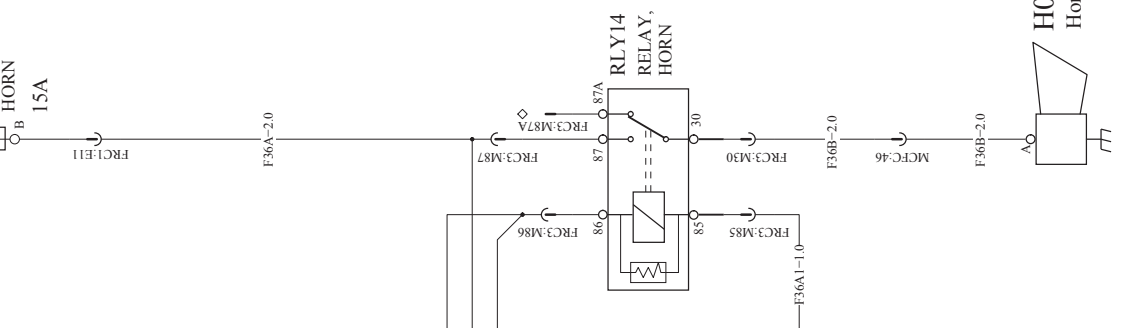
A

A



B

B



C

C

D

D

E

E

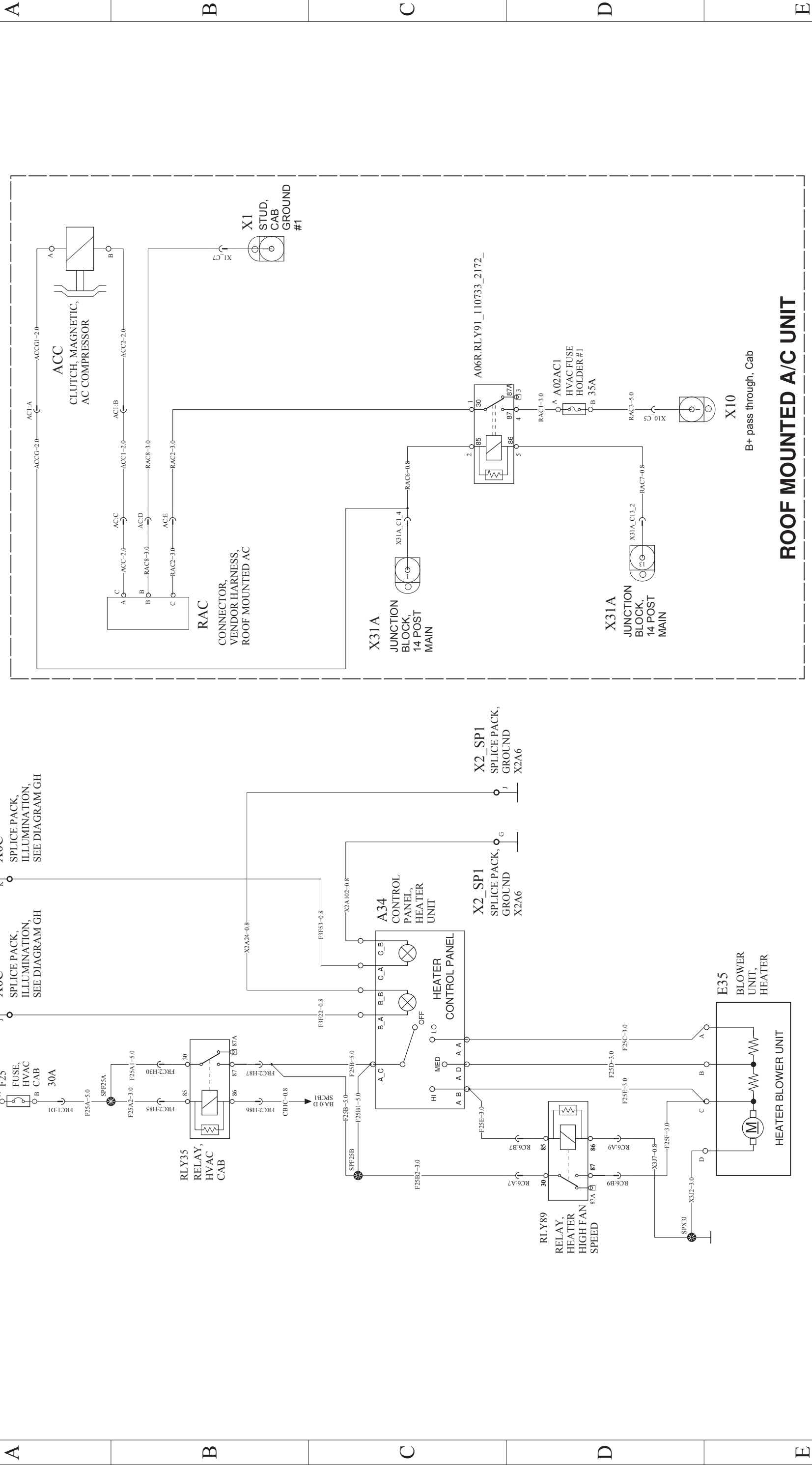
CLIMATE CONTROL

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

WIRING DIAGRAM: HA

BATT
IGN
EMS
ILLUM



ROOF MOUNTED A/C UNIT

MIRROR CONTROL 1/2

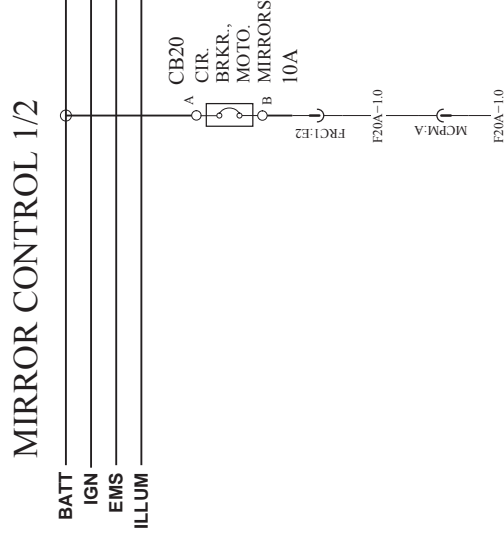
WIRING DIAGRAM: IC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

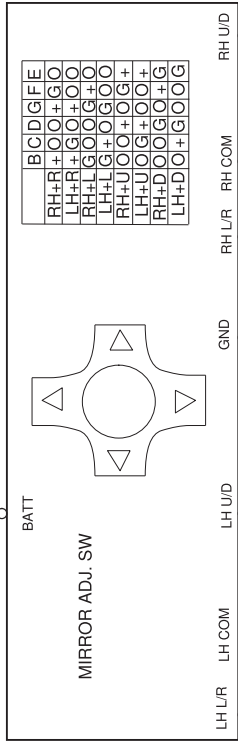
A



B

B

S030
SWITCH,
MIRROR
CONTROL



C

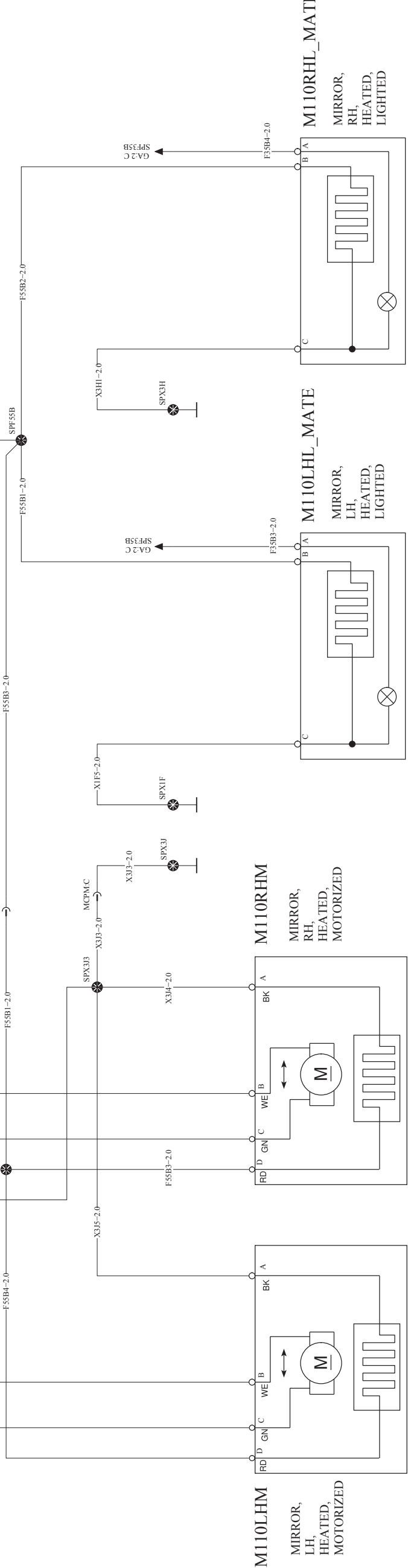
C

S013
SWITCH,
MIRROR
DEFROST



D

D



HEATED & MOTORIZED MIRRORS

HEATED & LIGHTED MIRRORS

E

E

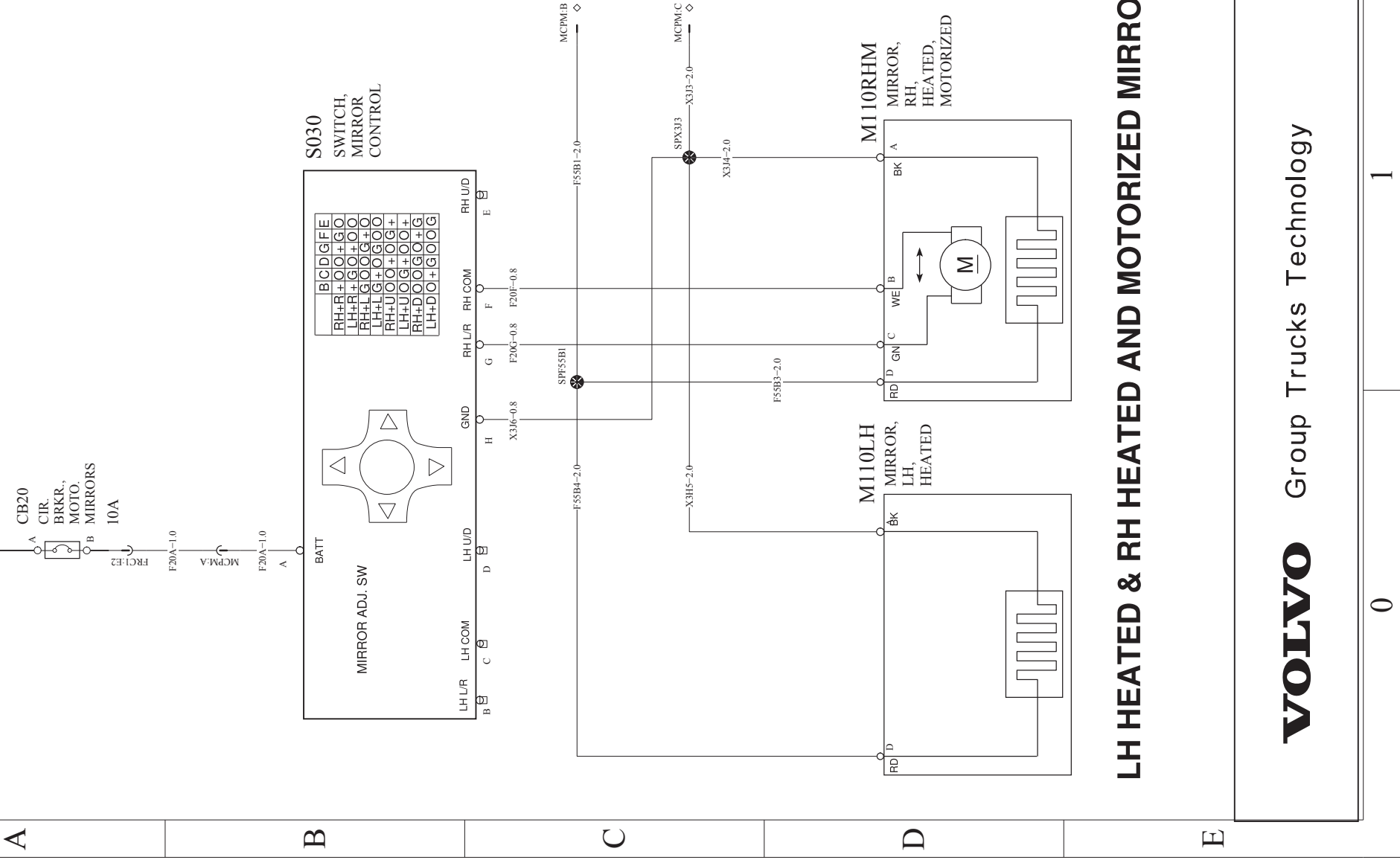
MIRROR CONTROL 2/2

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

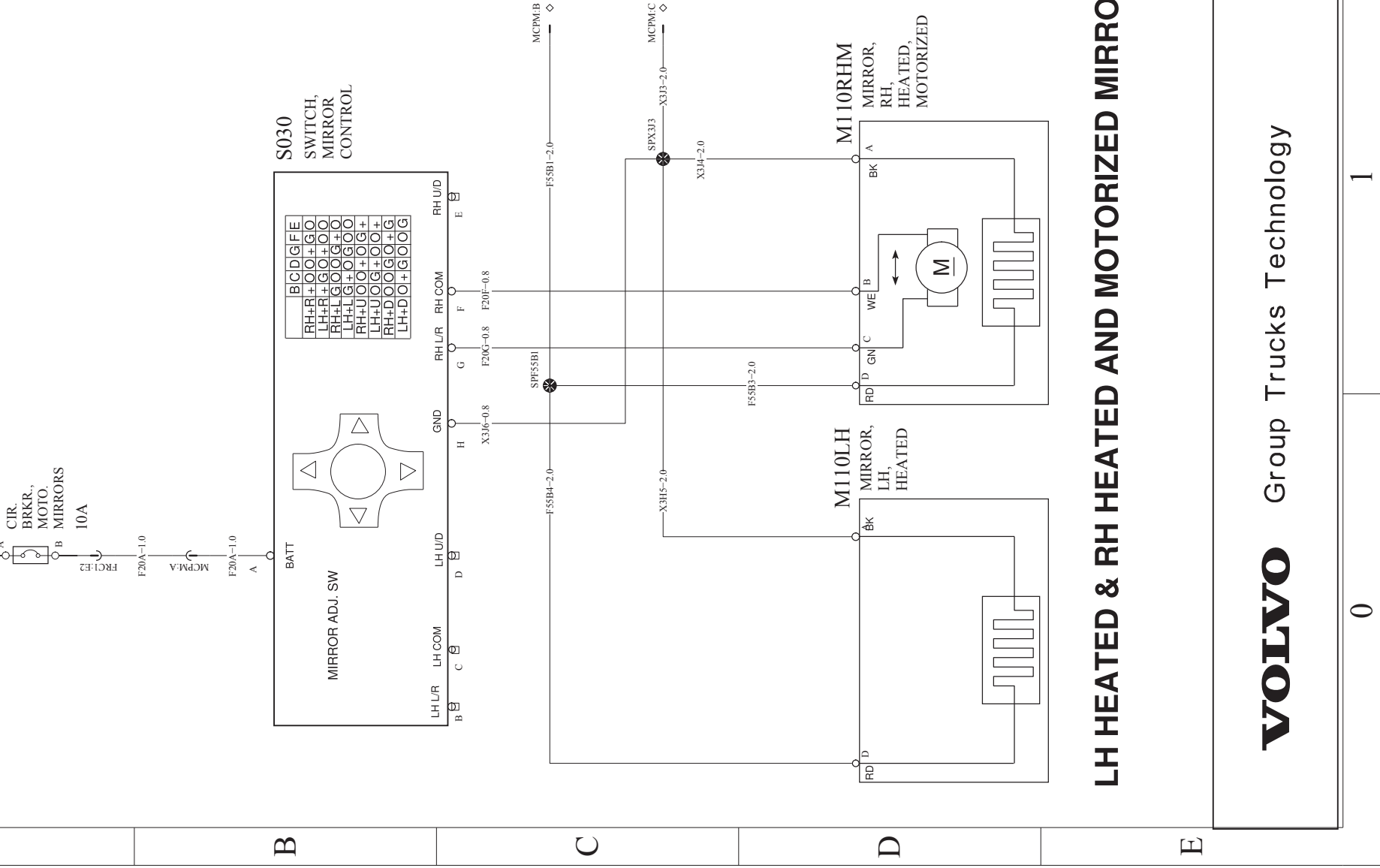
A

A



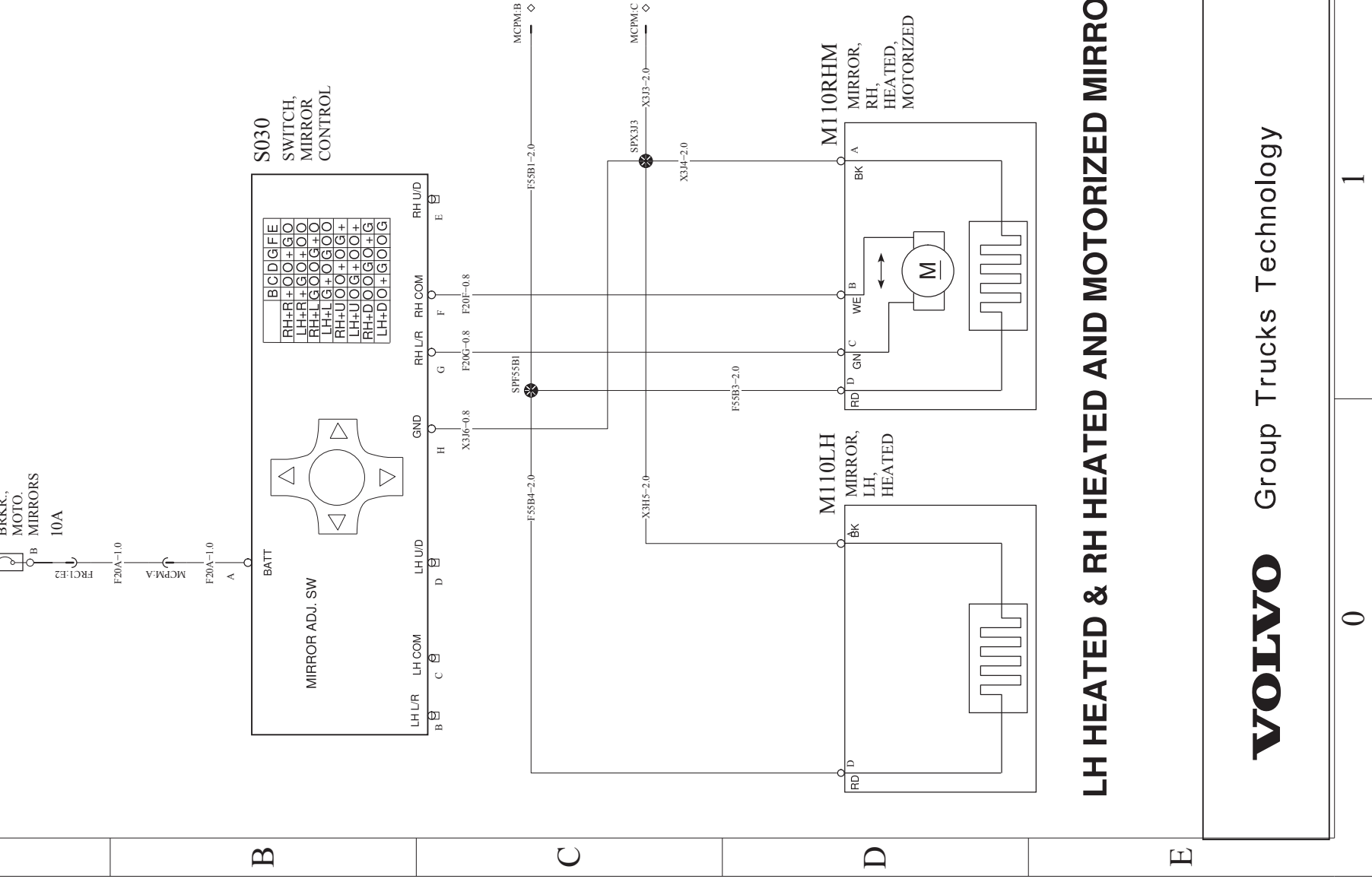
B

B



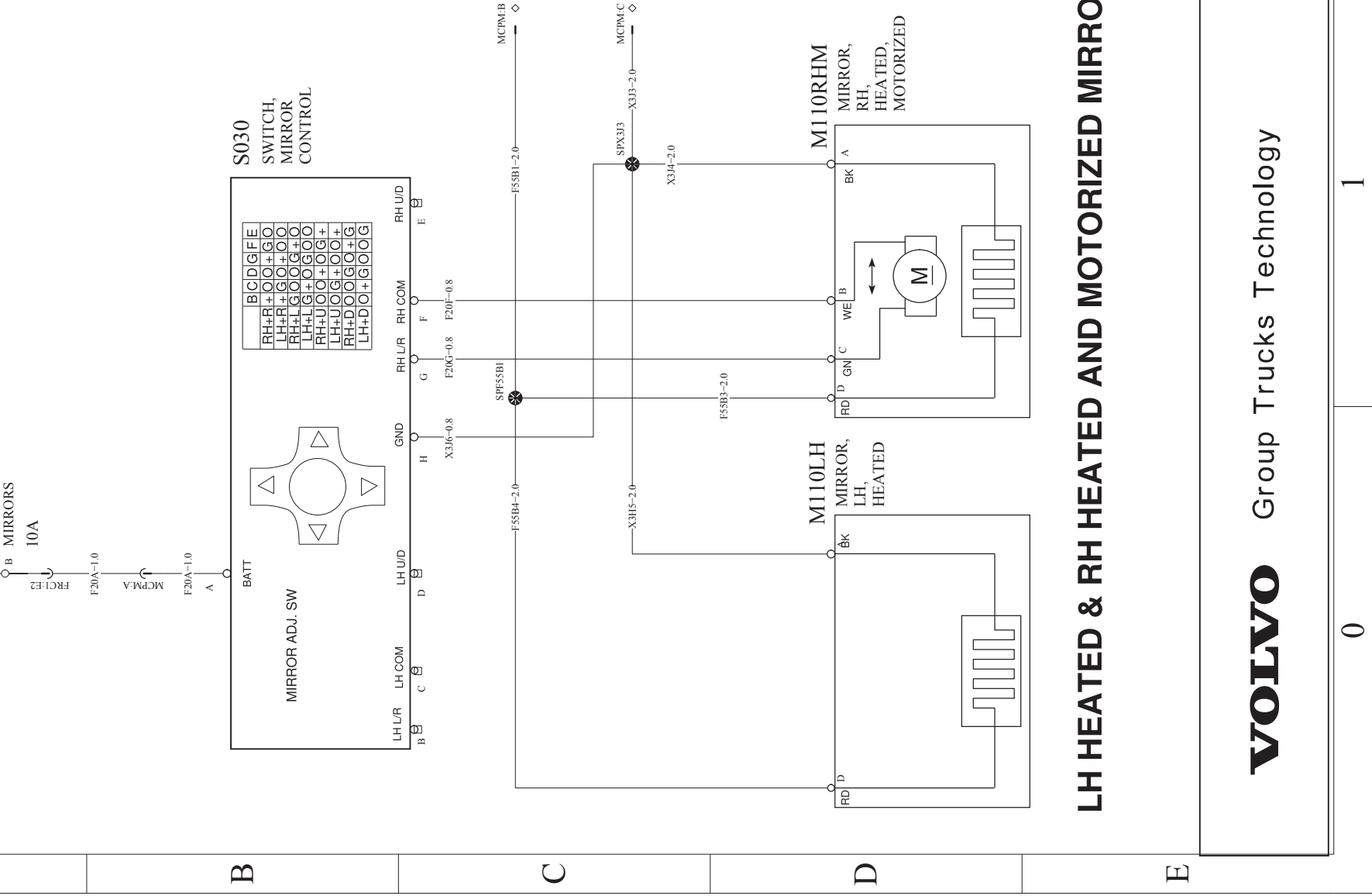
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C



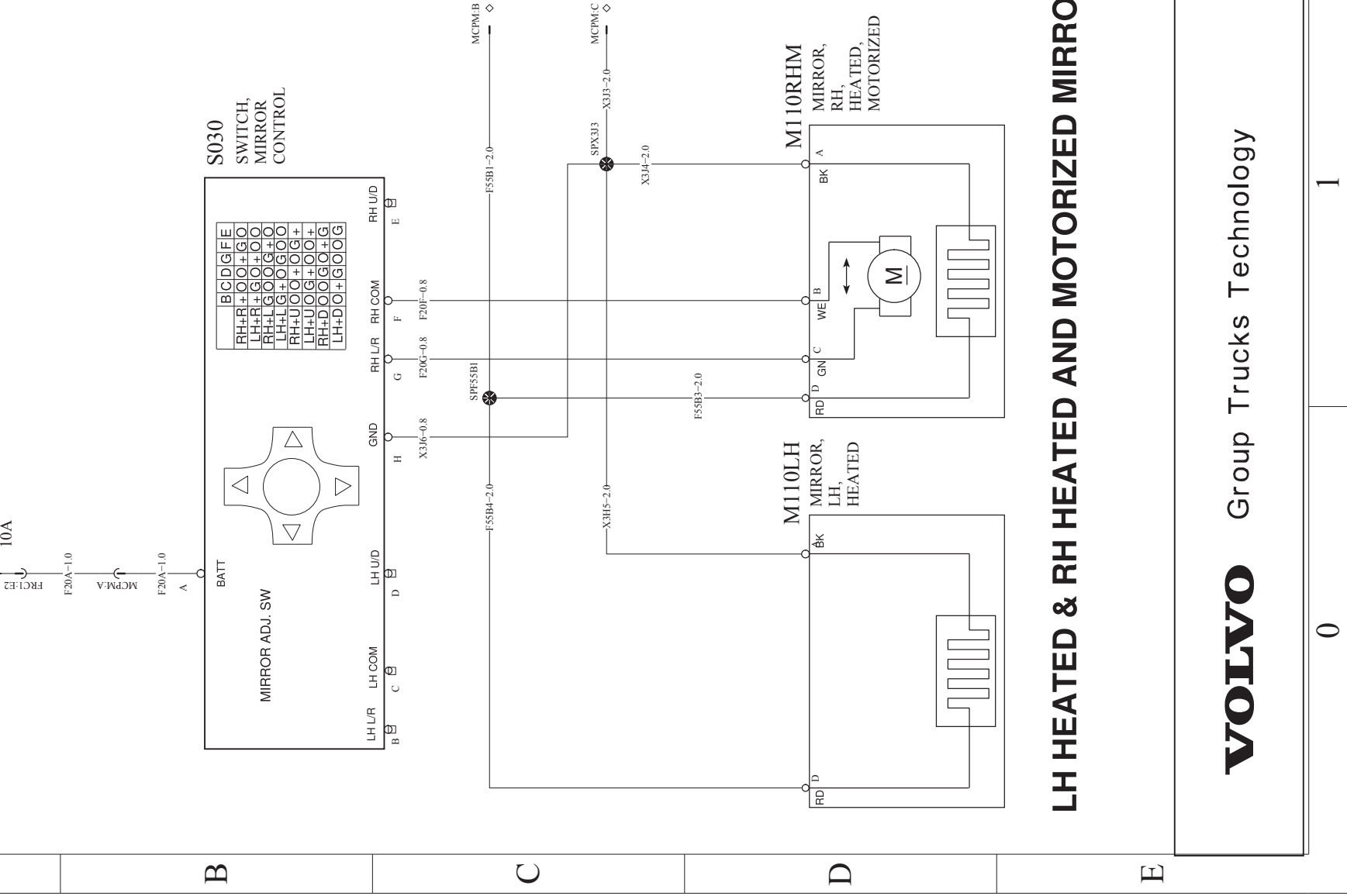
D

D



E

E



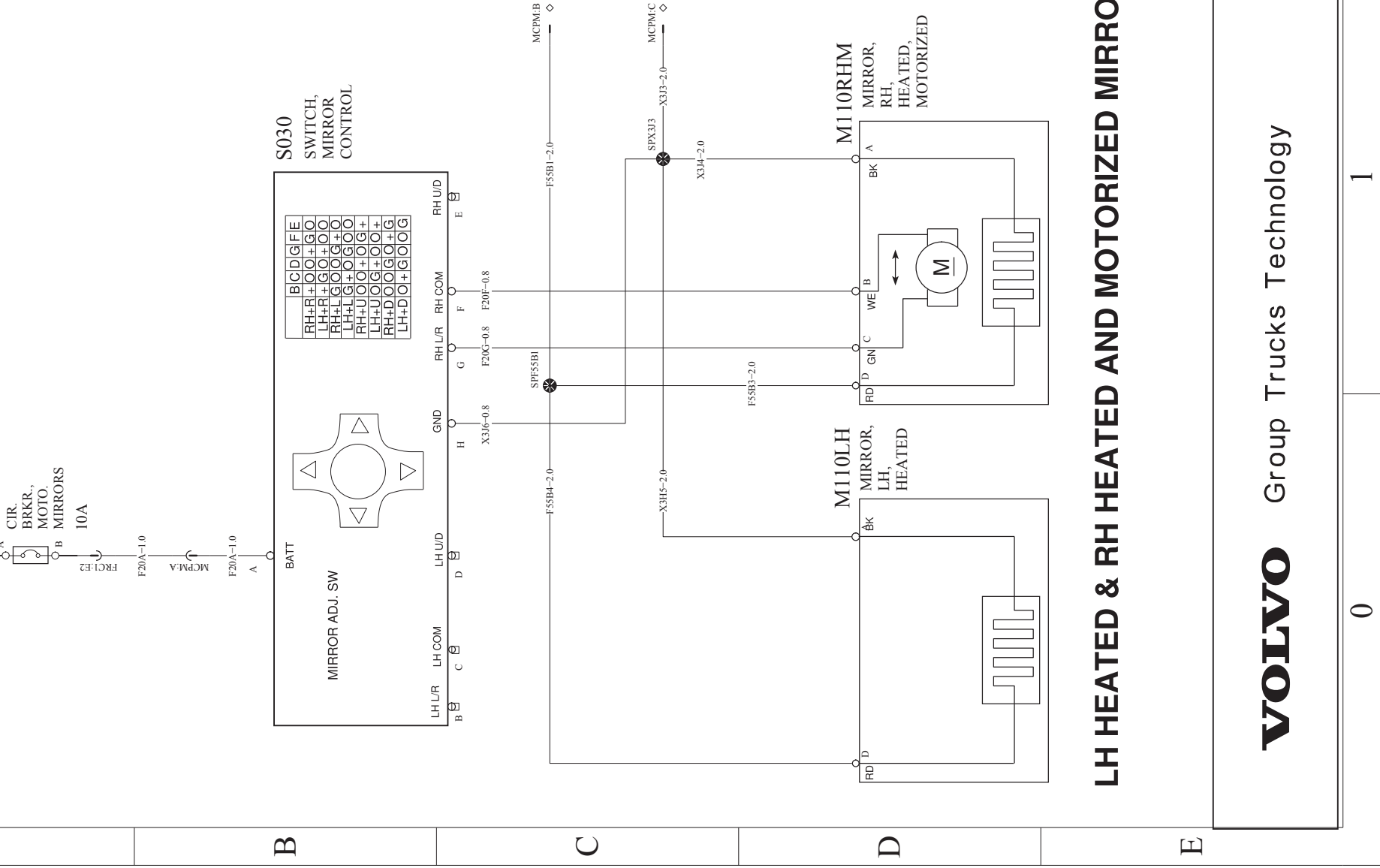
WIRING DIAGRAM: ID

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

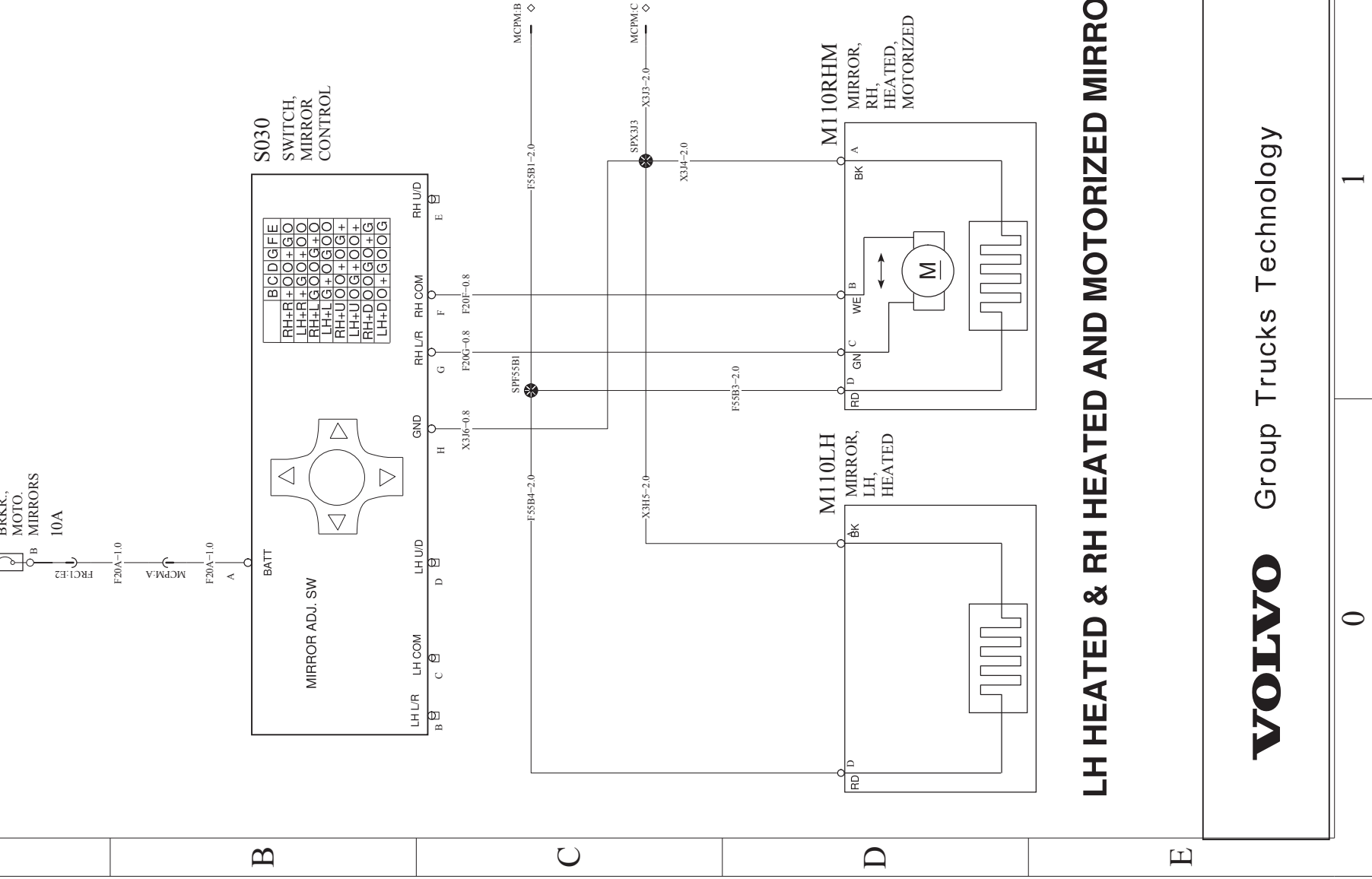
A

A



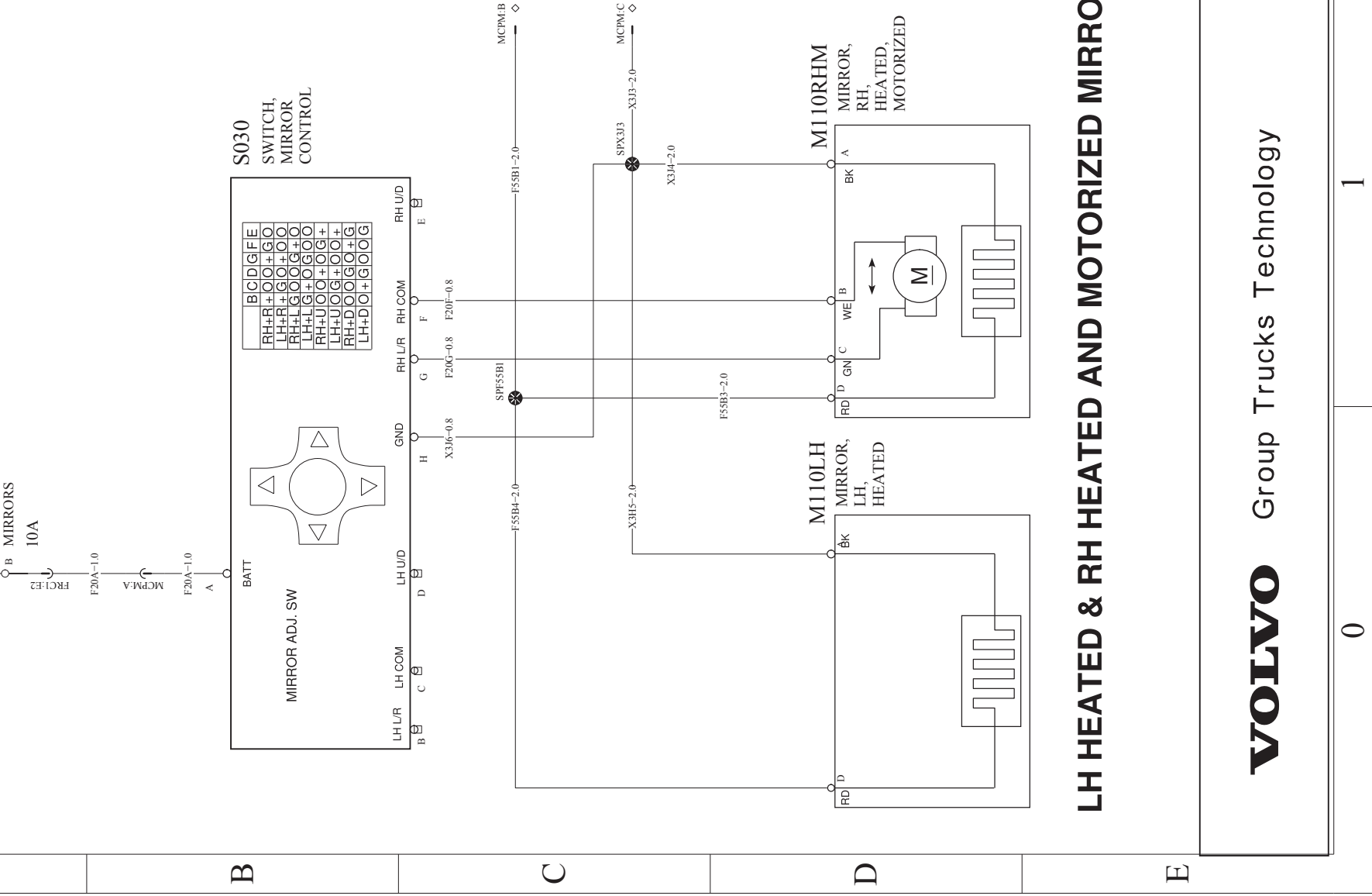
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B



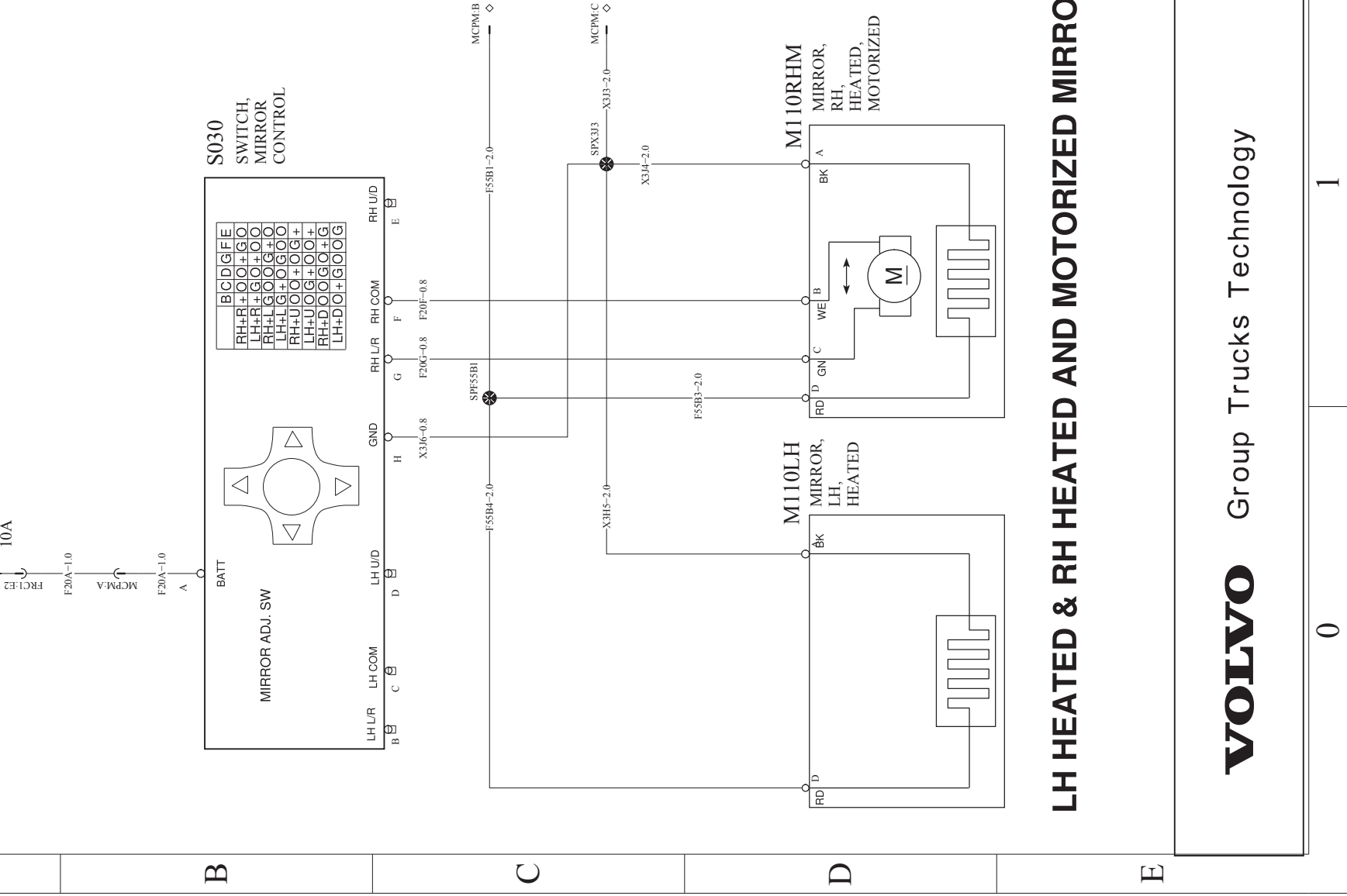
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C



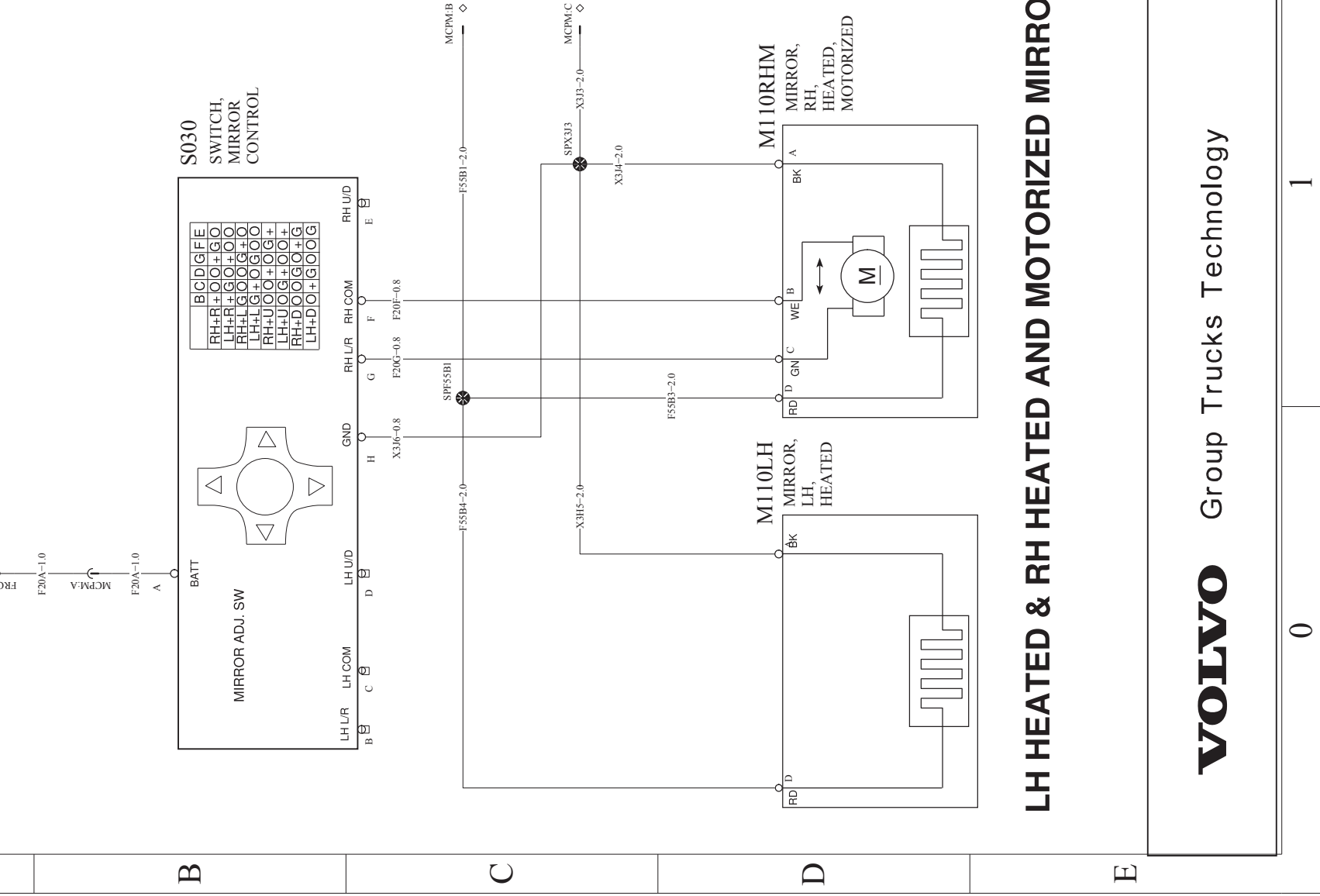
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D

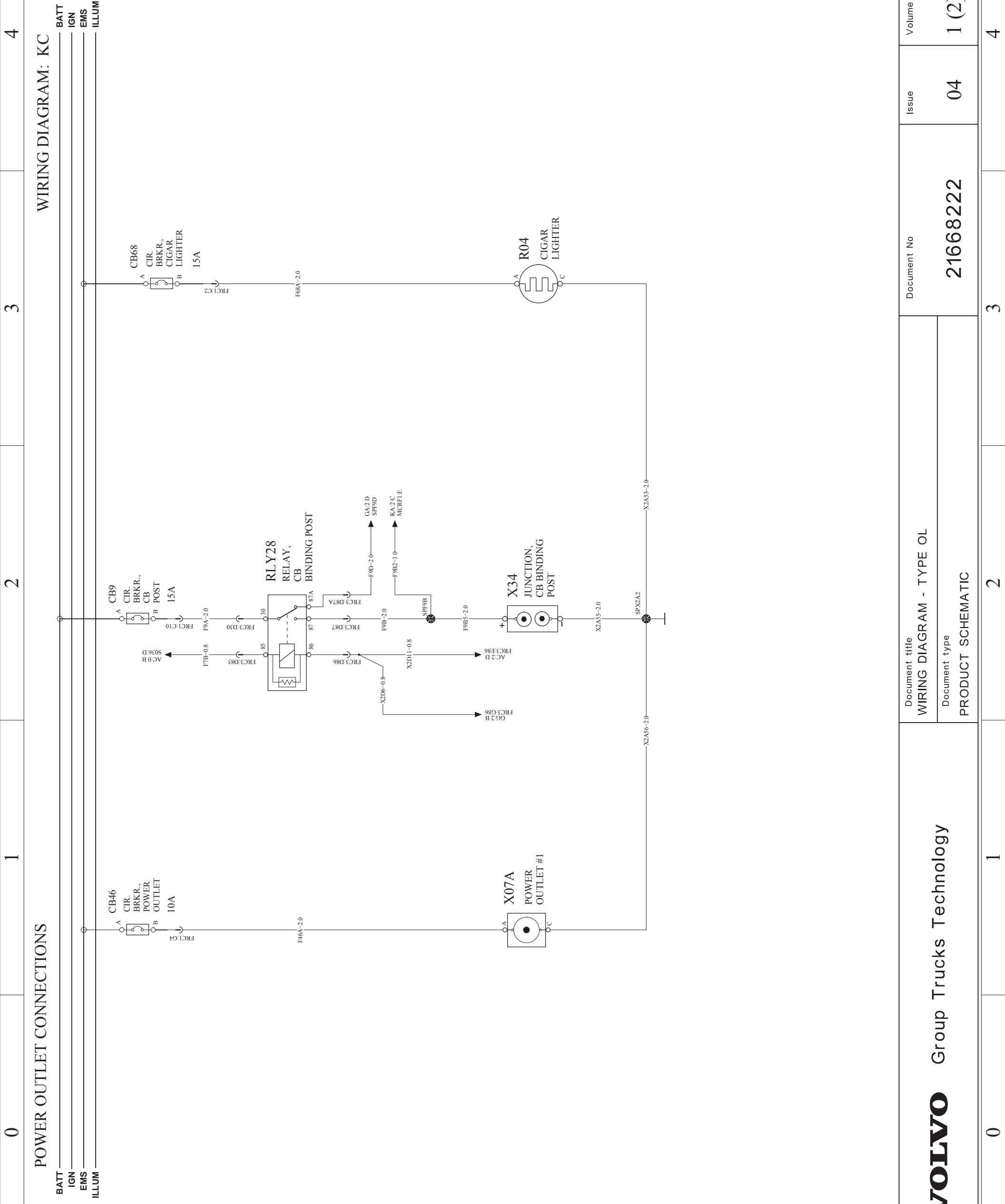


E

E

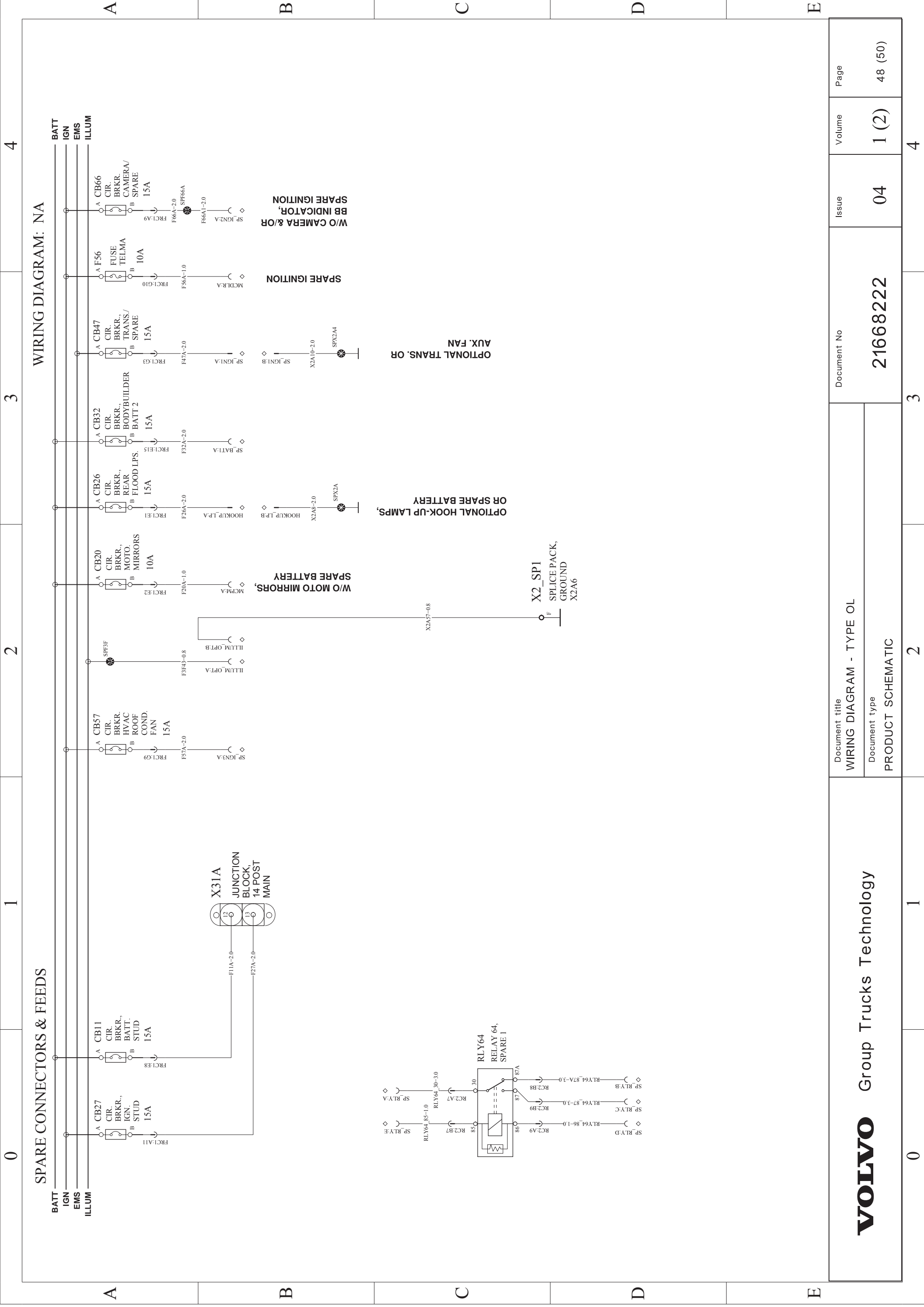


LH HEATED & RH HEATED AND MOTORIZED MIRRORS



POWER OUTLET CONNECTIONS

WIRING DIAGRAM: KC



0

1

2

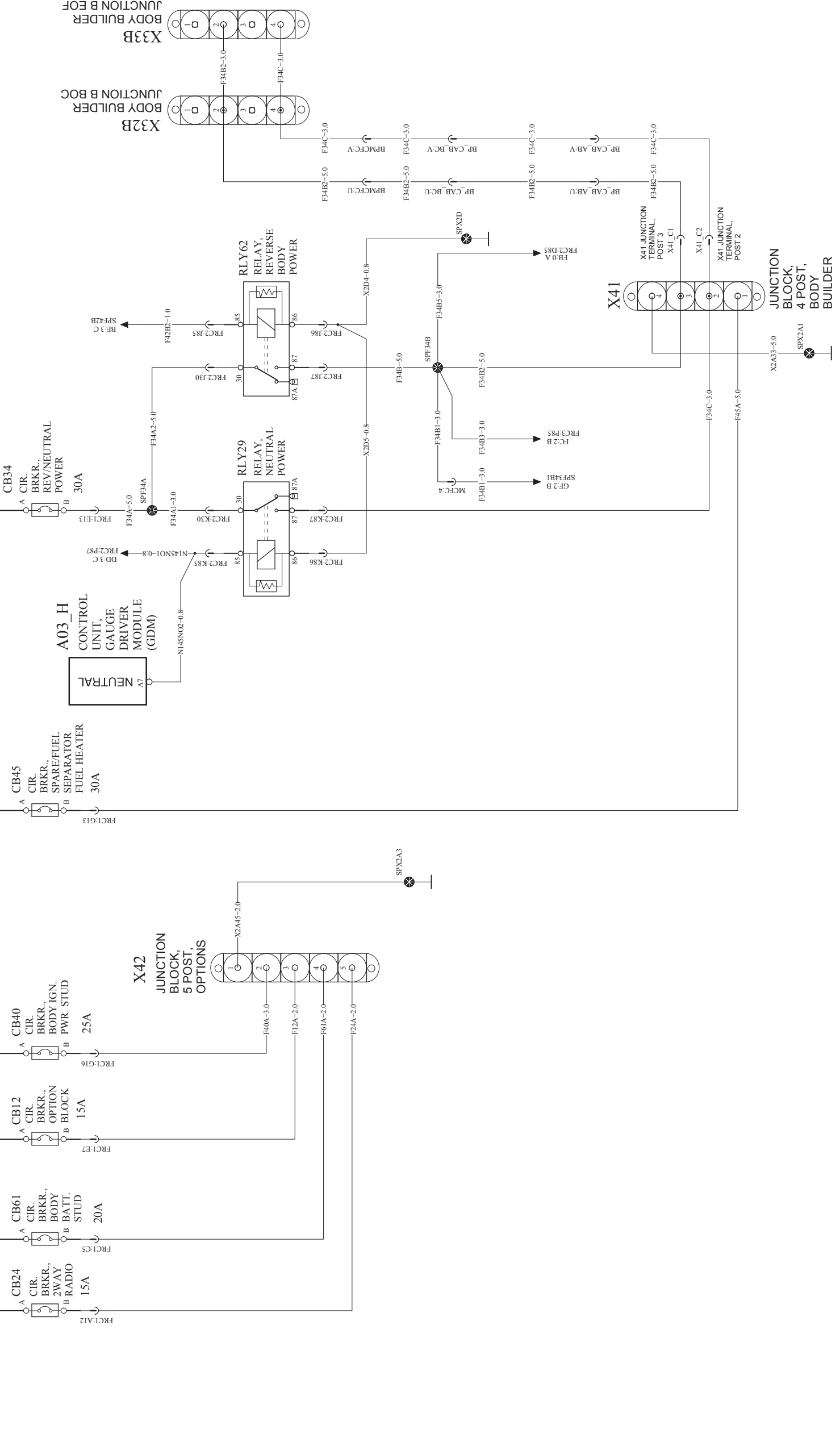
3

4

JUNCTION POSTS

WIRING DIAGRAM: NB

BATT
IGN
EMS
ILLUM



A

B

C

D

E

0

1

2

3

4

DATA LINK /DIAGNOSTICS

WIRING DIAGRAM: XA

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

