

Engineering Release Notice (ERN)	Location	Change Description	A = Added D = Deleted	W = Was	Document Release Status RELEASED
D-17874-36		SEE DCN			Date Modification Count

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Document Title
WIRING DIAGRAM
12V - TYPE OL W/NYC OPTIONS
SINGLE BIN CNG

Document Type
TECHNICAL REGULATION

Owner Domain: Document Prefix

MACK

Mack Trucks, Inc.

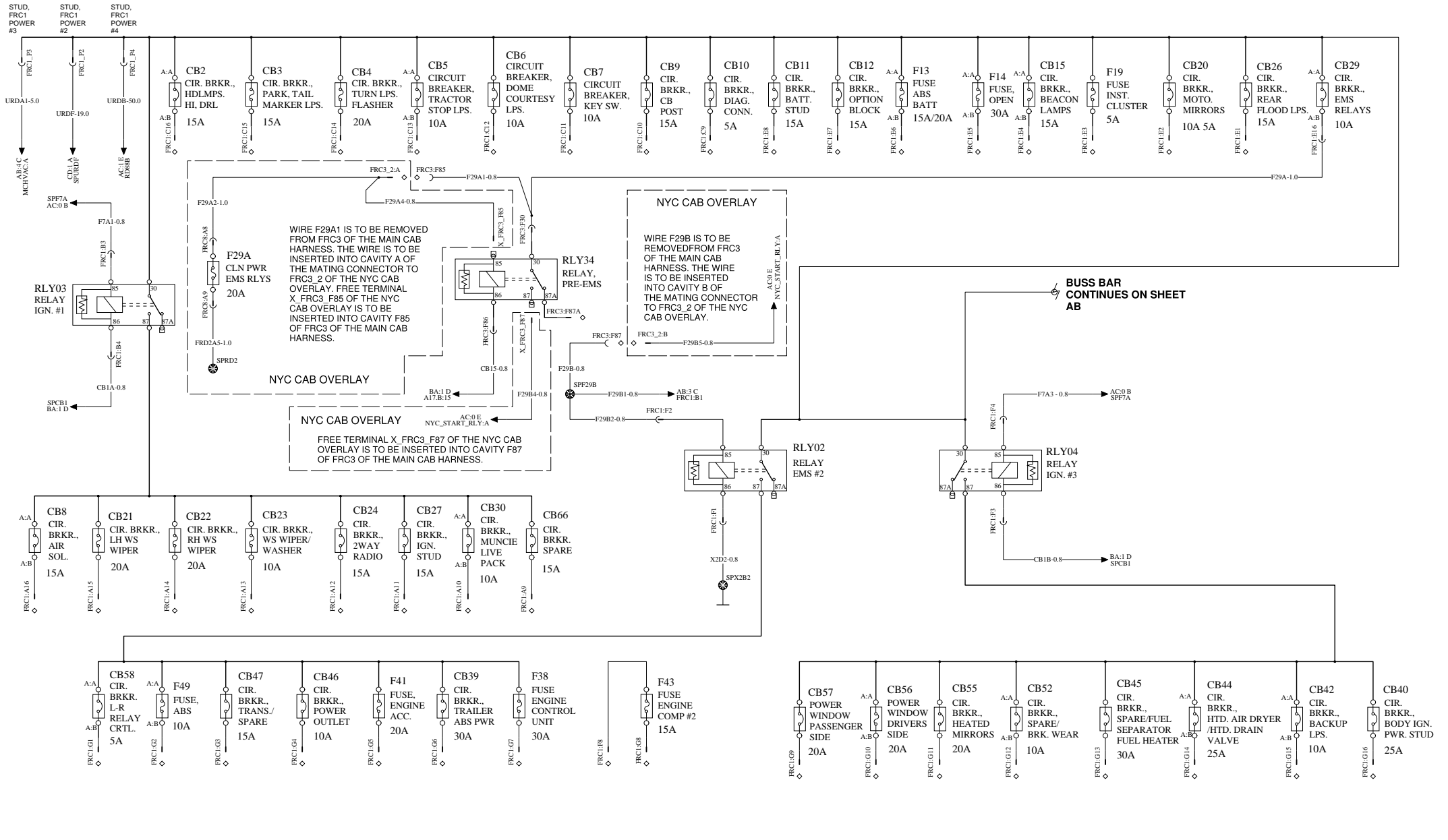
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POWER DISTRIBUTION 1 / 2

WIRING DIAGRAM: AA-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



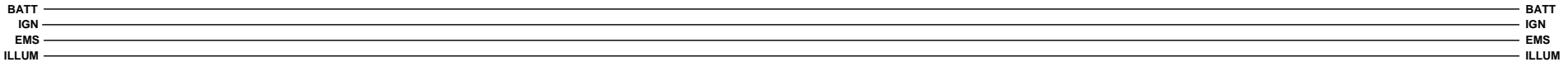
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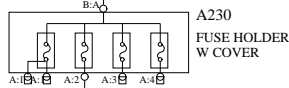
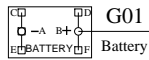
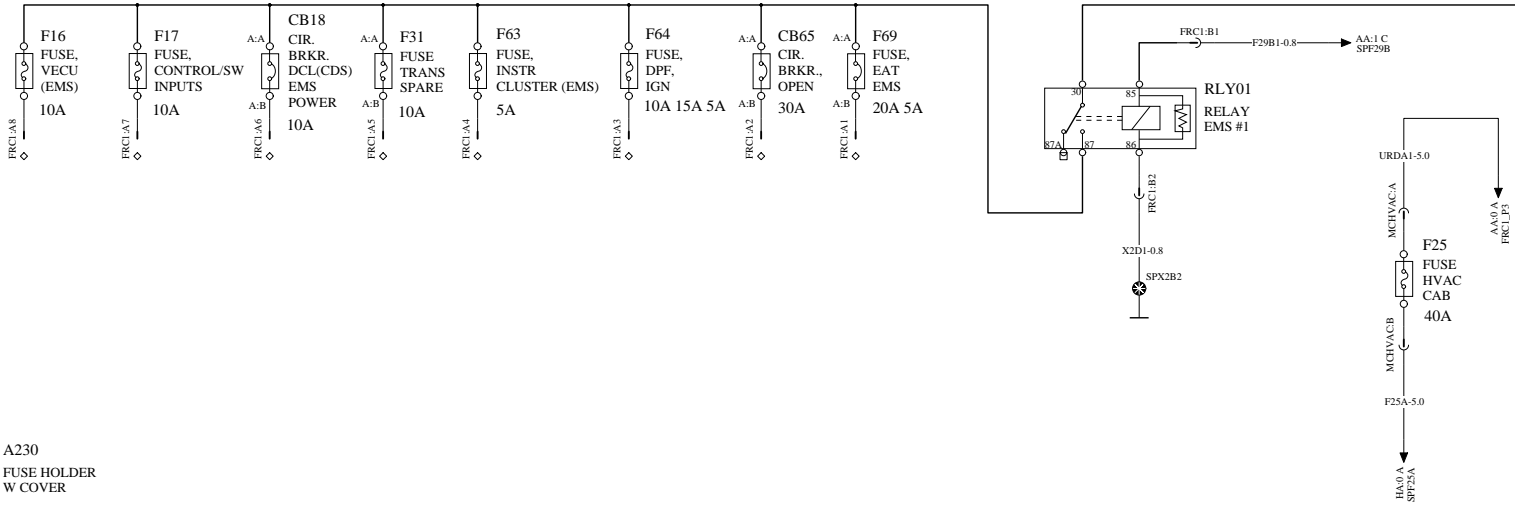
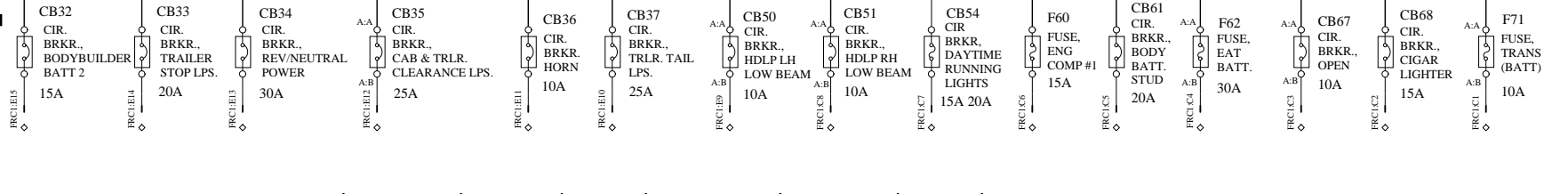
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POWER DISTRIBUTION 2 / 2

WIRING DIAGRAM: AB



BUSS BAR
CONTINUES ON
SHEET
AA



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KEY SWITCH, START & CHARGING

BATT
IGN
EMS
ILLUM

A

WIRE F7A2 IS TO BE REMOVED FROM MCS01 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN BE COVERED WITH SEALED HEAT SHRINK & TIED BACK. FREE TERMINAL MCS01_2 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY 2 OF CONNECTOR MCS01 OF THE MAIN CAB HARNESS.

WIRE F7C1 IS TO BE REMOVED FROM A17.A OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN BE COVERED WITH SEALED HEAT SHRINK & TIED BACK. FREE TERMINAL A17_A6 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY 6 OF CONNECTOR A17.A OF THE MAIN CAB HARNESS.

B

S217
Switch,
ignition,
selector type
(dashboard)

WIRE F7B IS TO BE REMOVED FROM MCS01 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN HAVE TERMINAL 21130688 CRIMPED ON TO THE WIRE & BE INSERTED INTO CAVITY A OF THE MATING CONNECTOR TO MCS01_MOVE OF THE NYC CAB OVERLAY HARNESS. FREE TERMINAL MCS01_7 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY 7 OF CONNECTOR MCS01 OF THE MAIN CAB HARNESS.

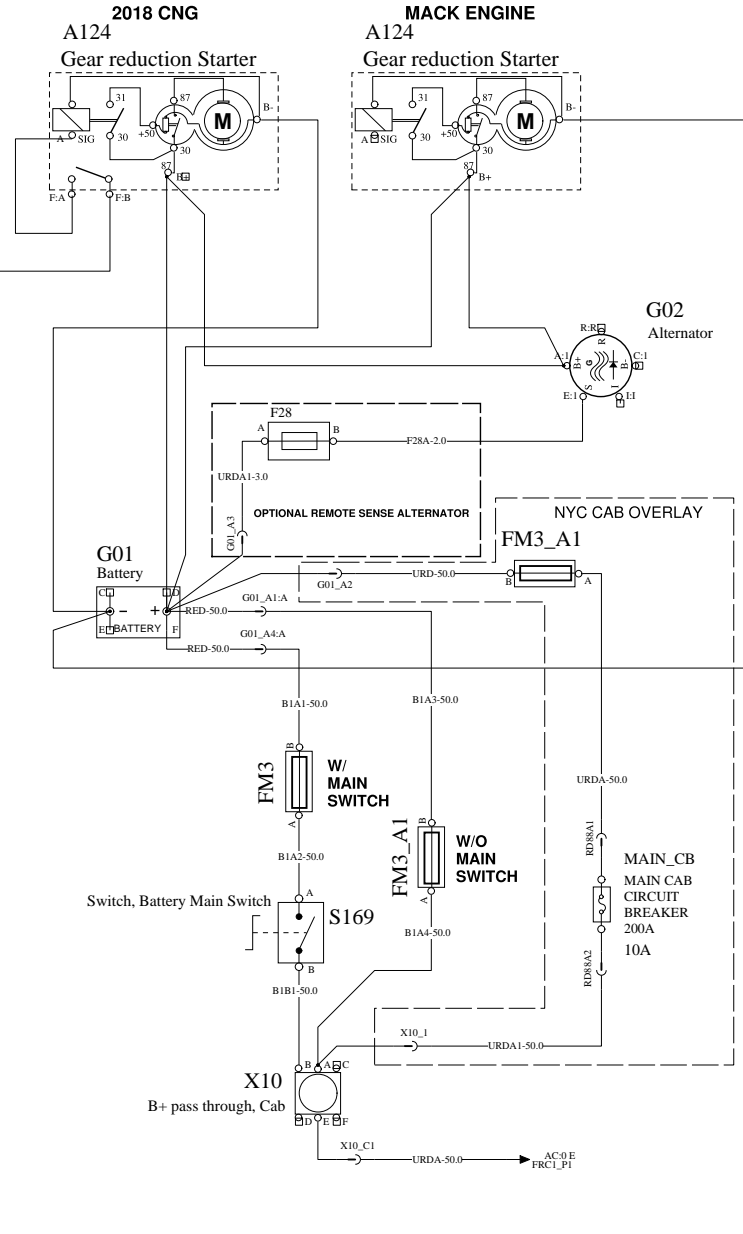
RL99
CAB
POWER
RELAY

NYC CAB OVERLAY

WIRING DIAGRAM: AC-NYC

BATT
IGN
EMS
ILLUM

A



B

C

D

E

MACK

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2

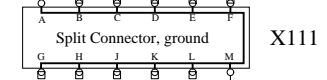
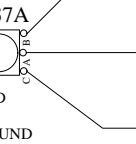
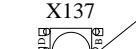
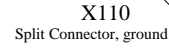
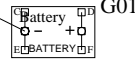
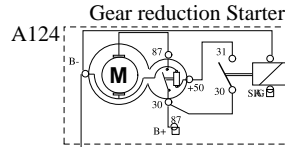
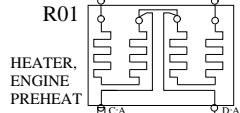
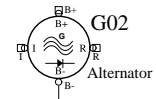
3

4

GROUNDING

WIRING DIAGRAM: AD

BATT
IGN
EMS
ILLUM



X111

GROUND, ENGINE BLOCK,
ALTERNATOR, PRE-HEATER

2018 CNG ONLY

MACK

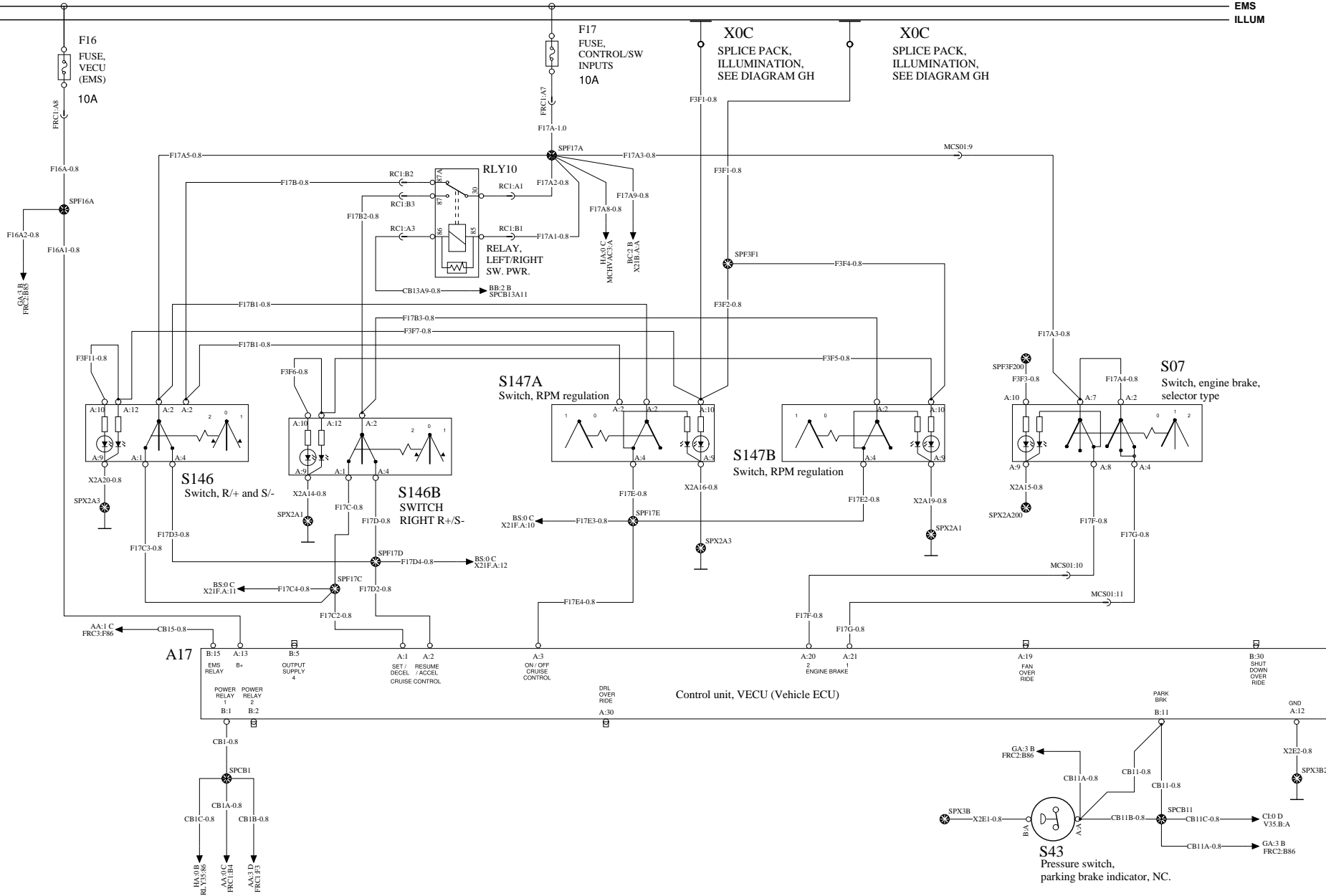
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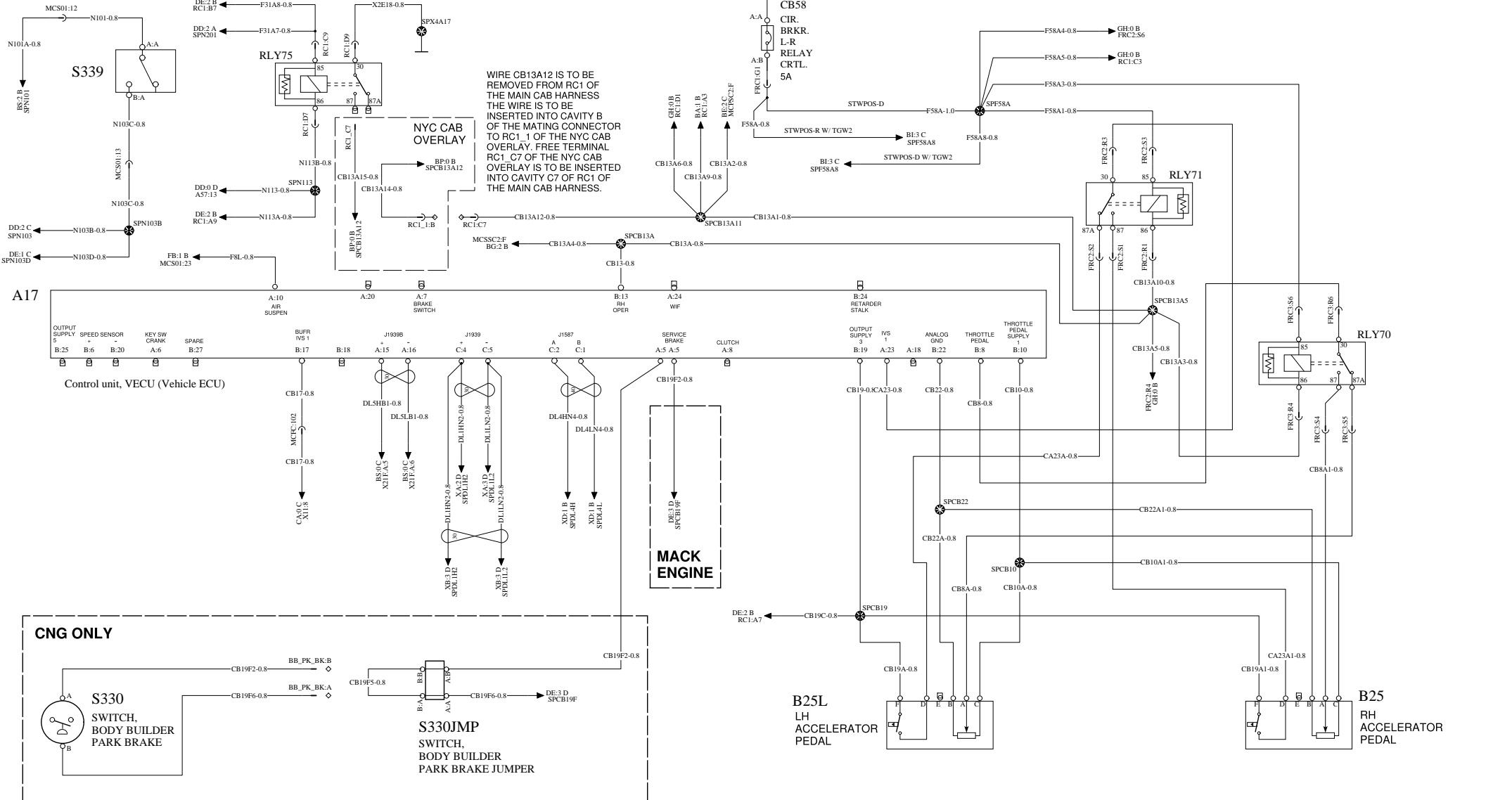


VEHICLE ECU 2 / 5 - STWPOS-D

WIRING DIAGRAM: BB-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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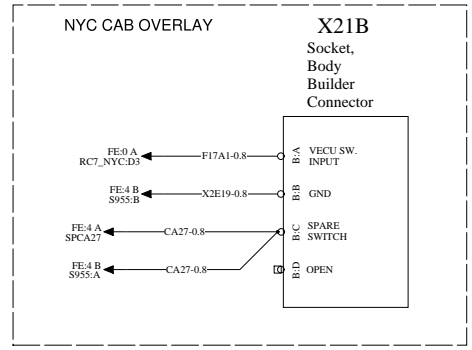
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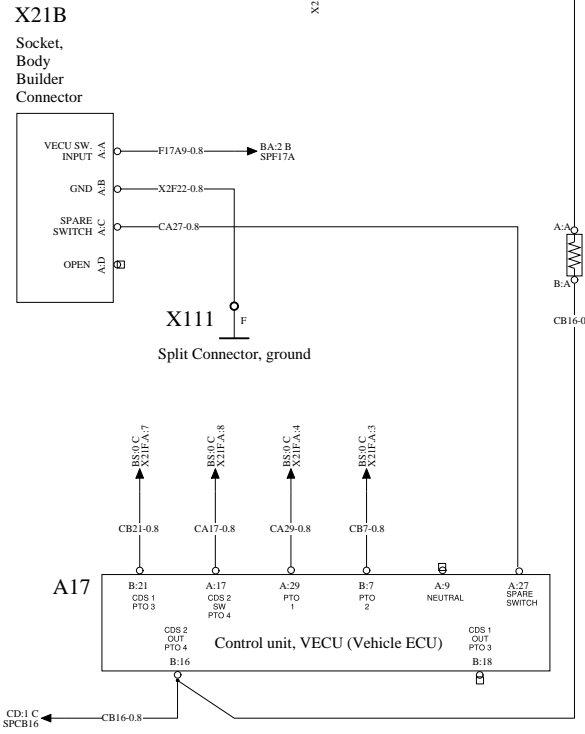
VEHICLE ECU 3 / 5 - DCL CONNECTOR

WIRING DIAGRAM: BC-NYC

BATT
IGN
EMS
ILLUM



CONNECTOR X21B.B OF THE NYC OVERLAY IS TO BE CONNECTED TO CONNECTOR X21B.A OF THE MAIN CAB HARNESS



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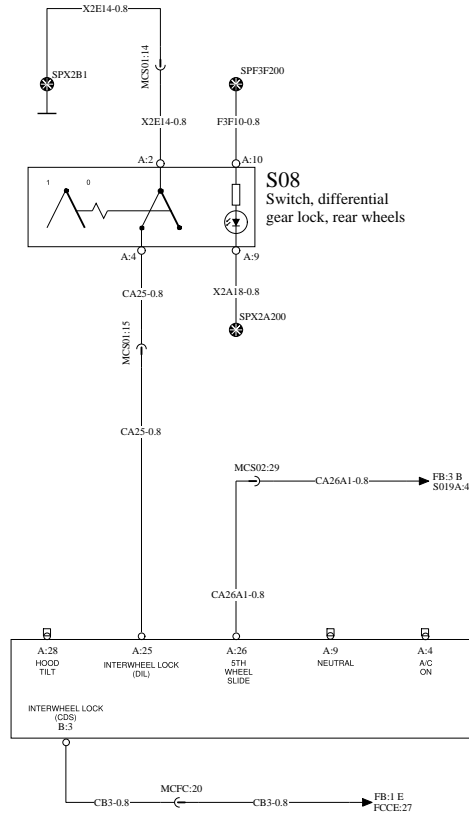
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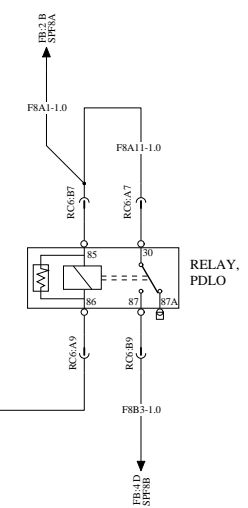
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BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



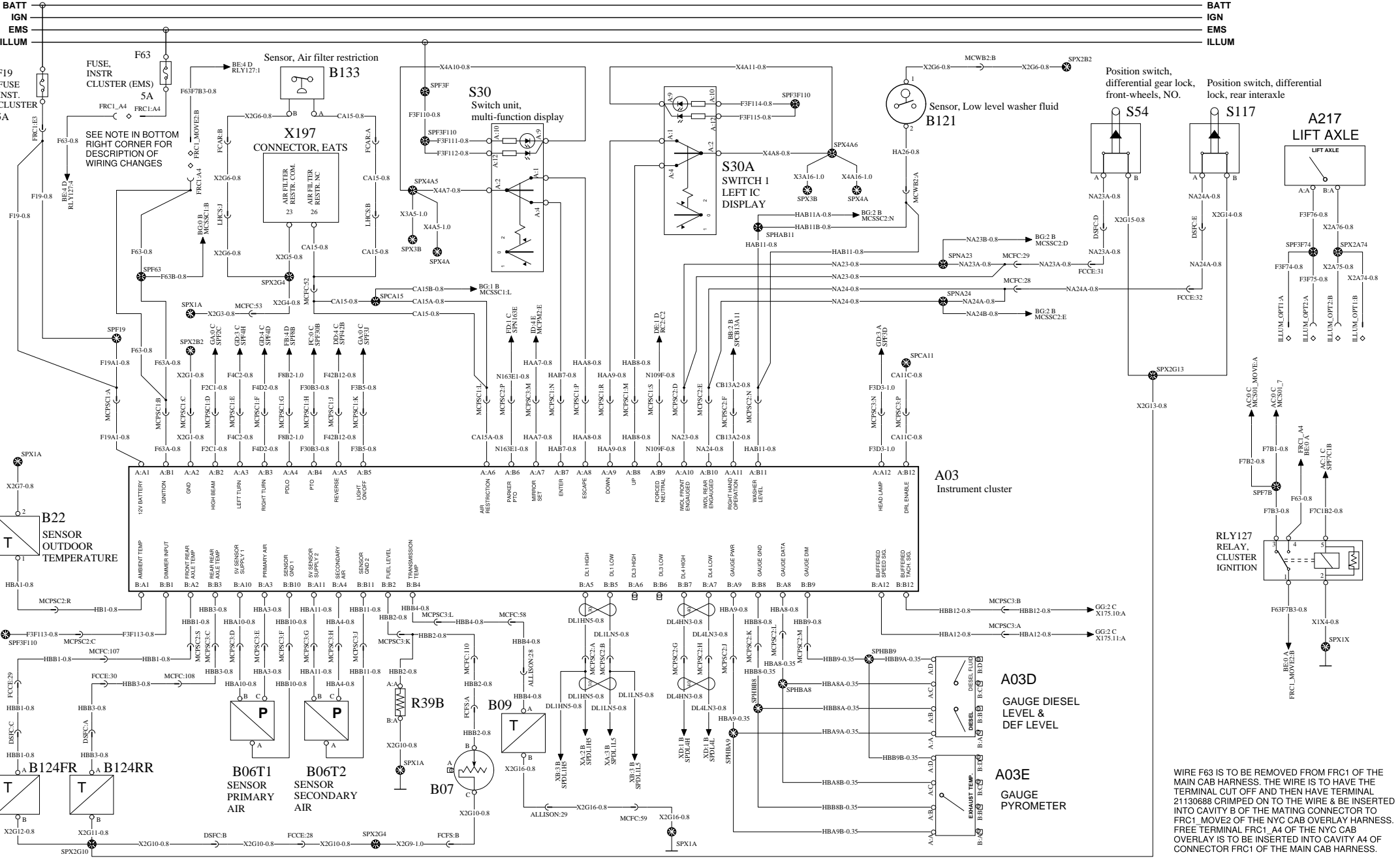
A17
Control unit, VECU (Vehicle ECU)



RELAY,
PDLO

INSTRUMENT CLUSTER 1 / 3

WIRING DIAGRAM: BE



WIRE F63 IS TO BE REMOVED FROM FRC1 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN HAVE TERMINAL 21130888 CRIMPED ON TO THE WIRE & BE INSERTED INTO CAVITY B OF THE MATING CONNECTOR TO FRC1. MOVE2 OF THE NYC CAB OVERLAY HARNESS. FREE TERMINAL FRC1_A4 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY A4 OF CONNECTOR FRC1 OF THE MAIN CAB HARNESS.

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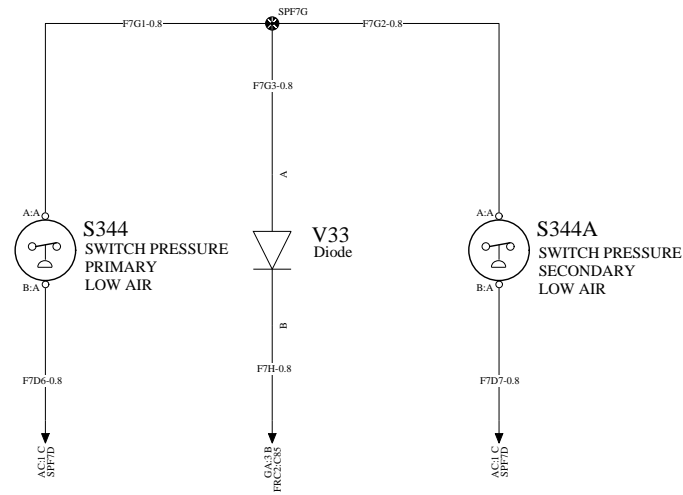
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BATT	BATT
IGN	IGN
EMS	EMS
ILLUM	ILLUM



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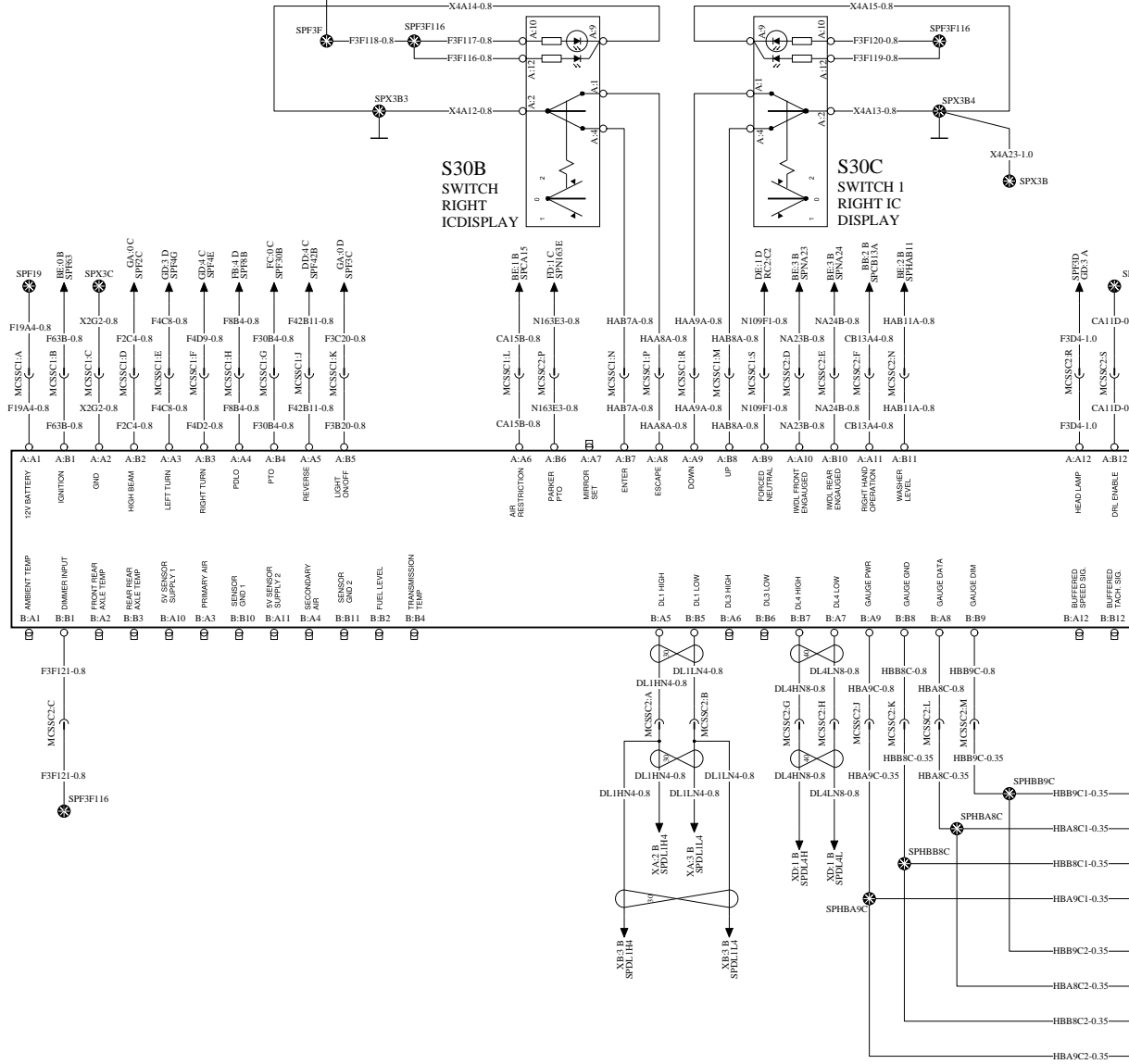
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INSTRUMENT CLUSTER 3 / 3 - SECONDARY CLUSTER

WIRING DIAGRAM: BG

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



A153 Instrument Cluster

A153A GAUGE FUEL

A153B GAUGE PYROMETER

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3

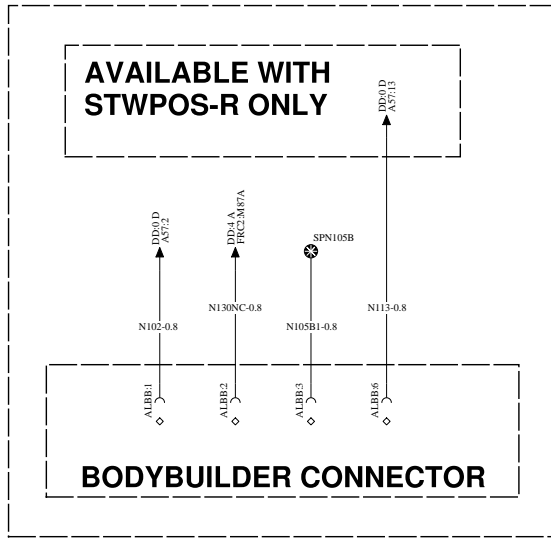
4

ALLISON BODYBUILDER INTERFACE

WIRING DIAGRAM: BH-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



CONNECTOR X06D_B OF THE NYC OVERLAY IS TO BE CONNECTED TO CONNECTOR X06D.A OF THE MAIN CAB HARNESS

A

A

B

B

C

C

D

D

E

E

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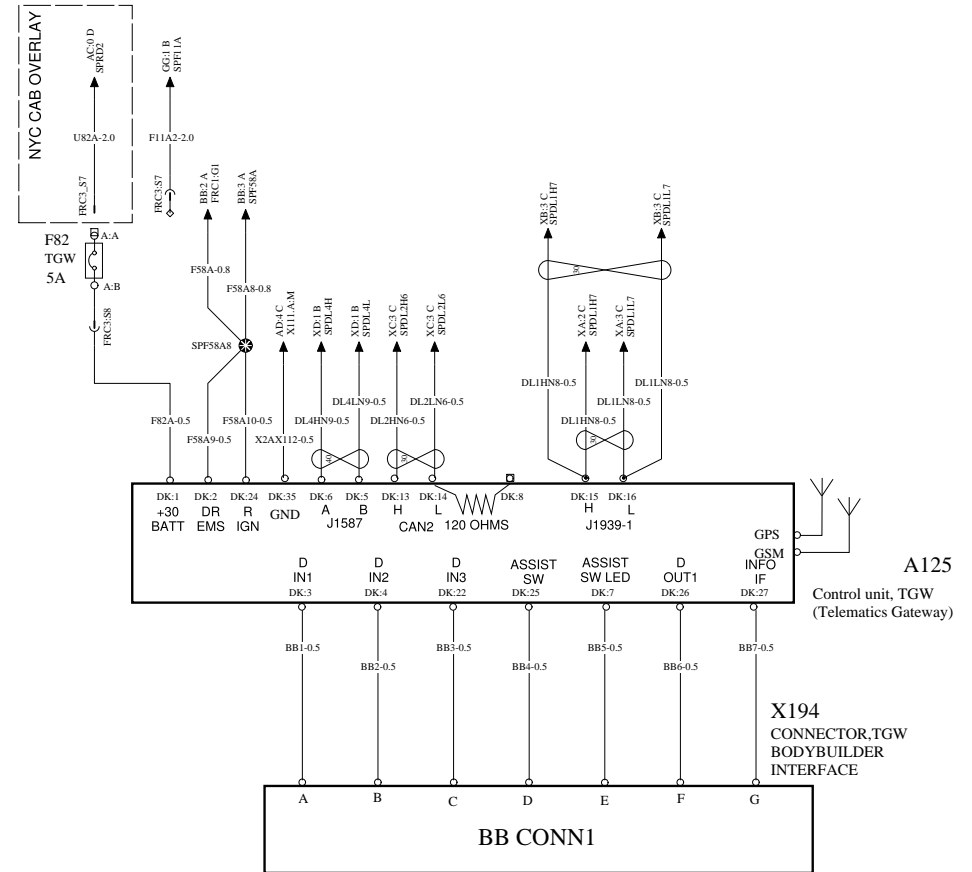
3

4

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

WIRE F11A2 IS TO BE REMOVED FROM CAVITY S7 OF CONNECTOR FRC3 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN BE COVERED WITH SEALED HEAT SHRINK & TIED BACK. FREE TERMINAL FRC3 S7 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY S7 OF CONNECTOR FRC3 OF THE MAIN CAB HARNESS.



NYC SINGLE BIN BB

WIRING DIAGRAM: BN-NYC

BATT
IGN
EMS
ILLUM

A

A

B

B

C

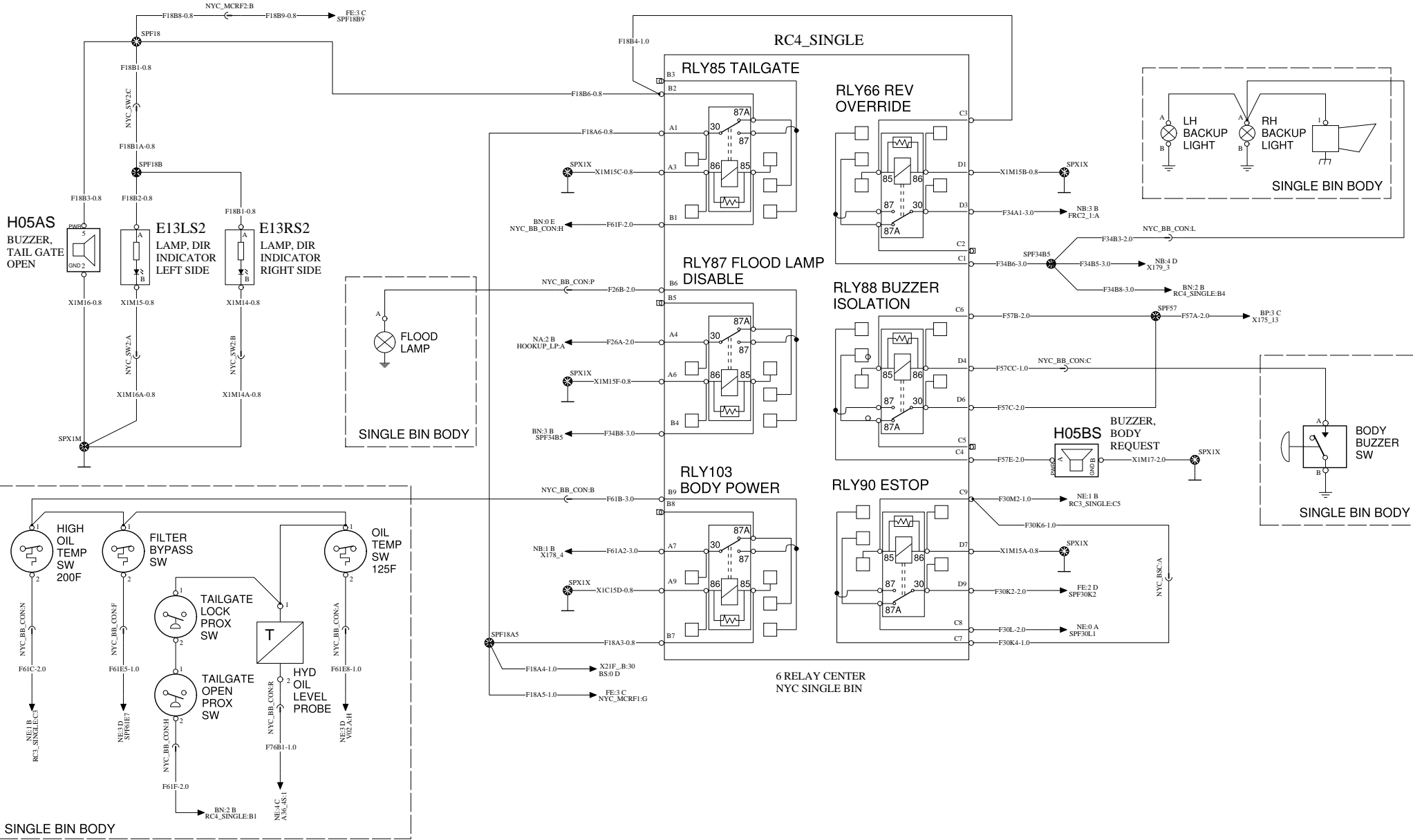
C

D

D

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E



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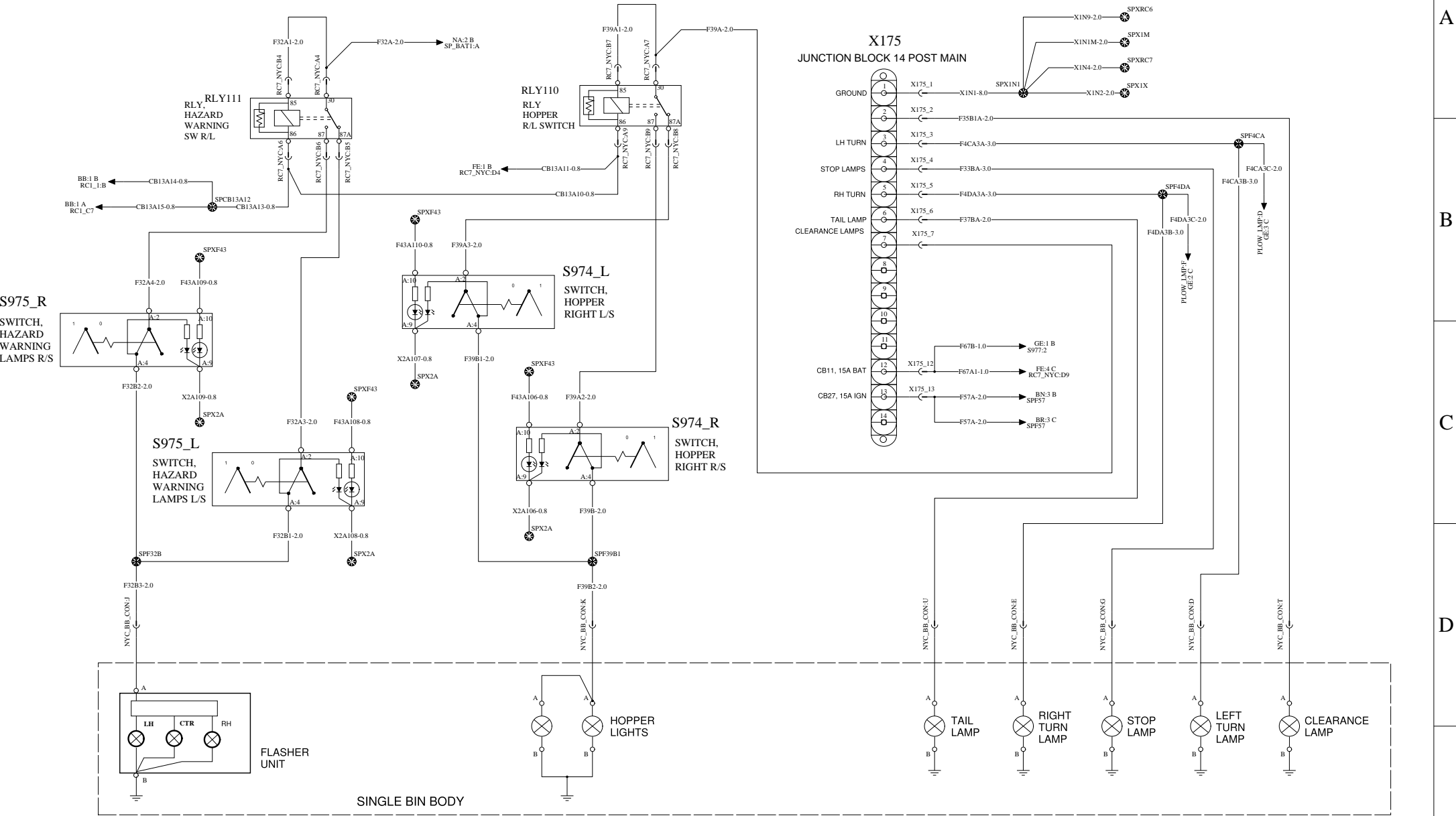
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NYC SINGLE / DUAL BIN BB

WIRING DIAGRAM: BP-NYC

BATT
IGN
EMS
ILLUM



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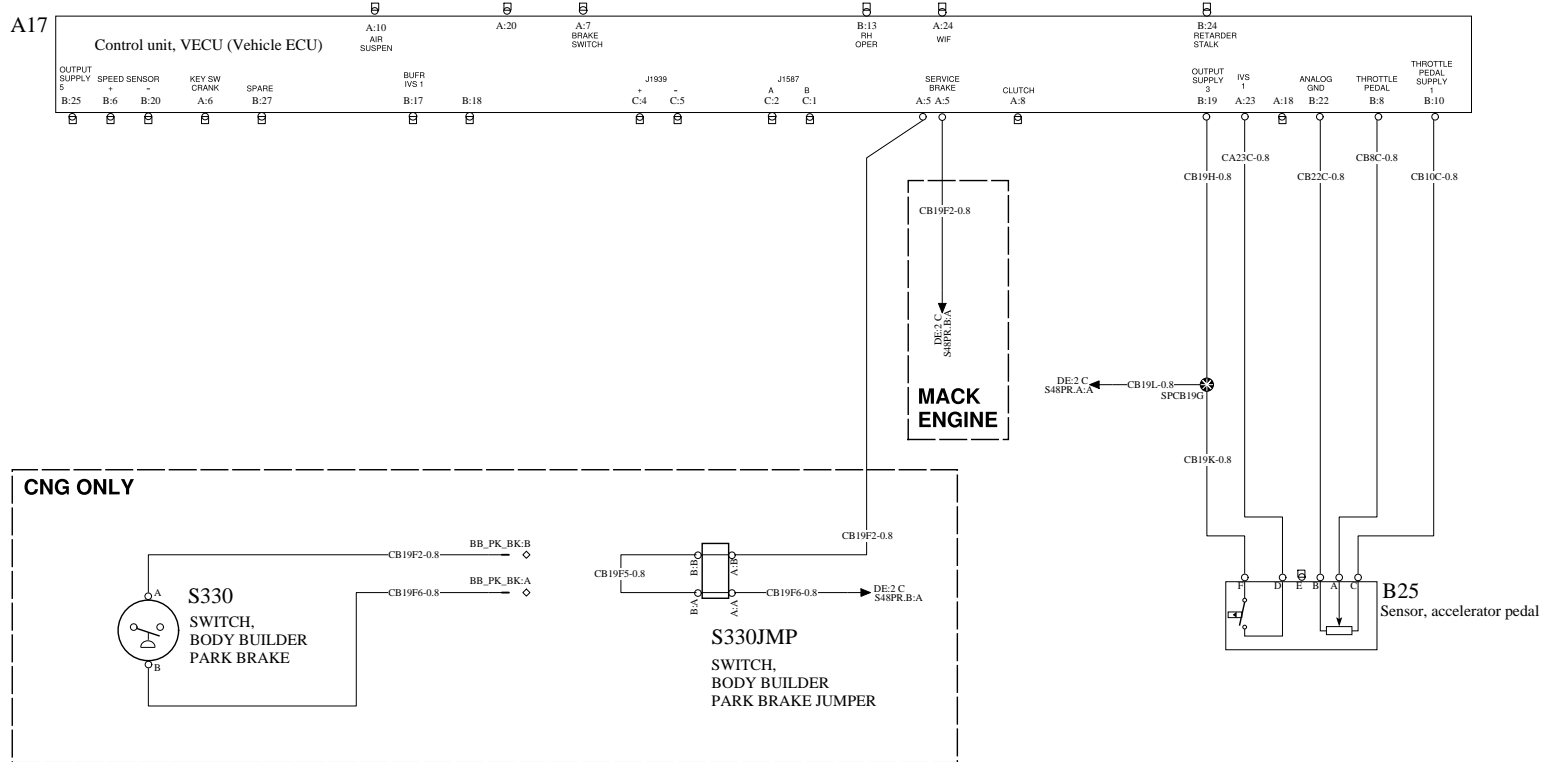
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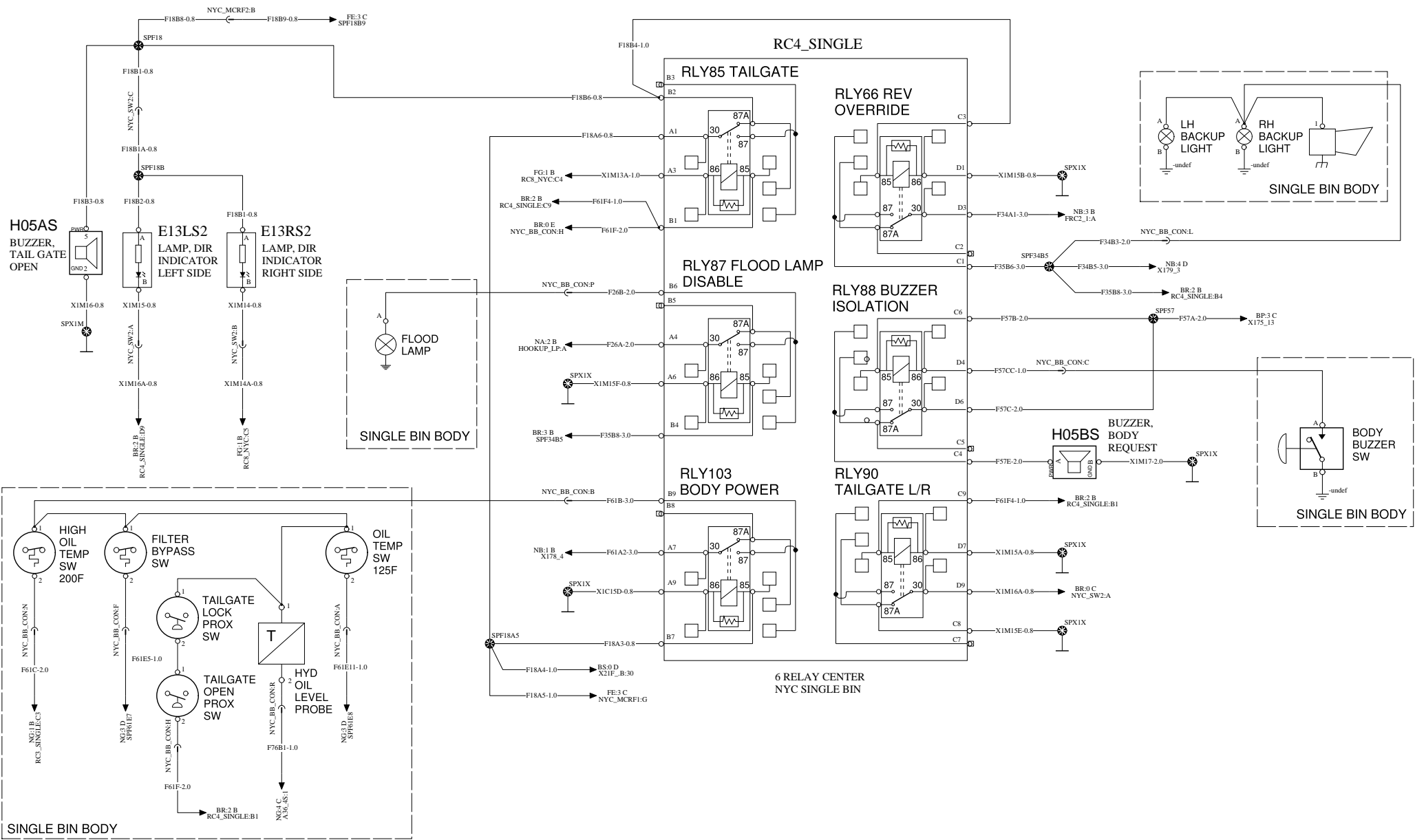
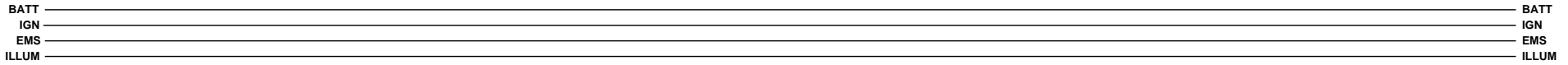
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BATT _____ BATT
 IGN _____ IGN
 EMS _____ EMS
 ILLUM _____ ILLUM



NYC DUAL BIN BB

WIRING DIAGRAM: BR-NYC



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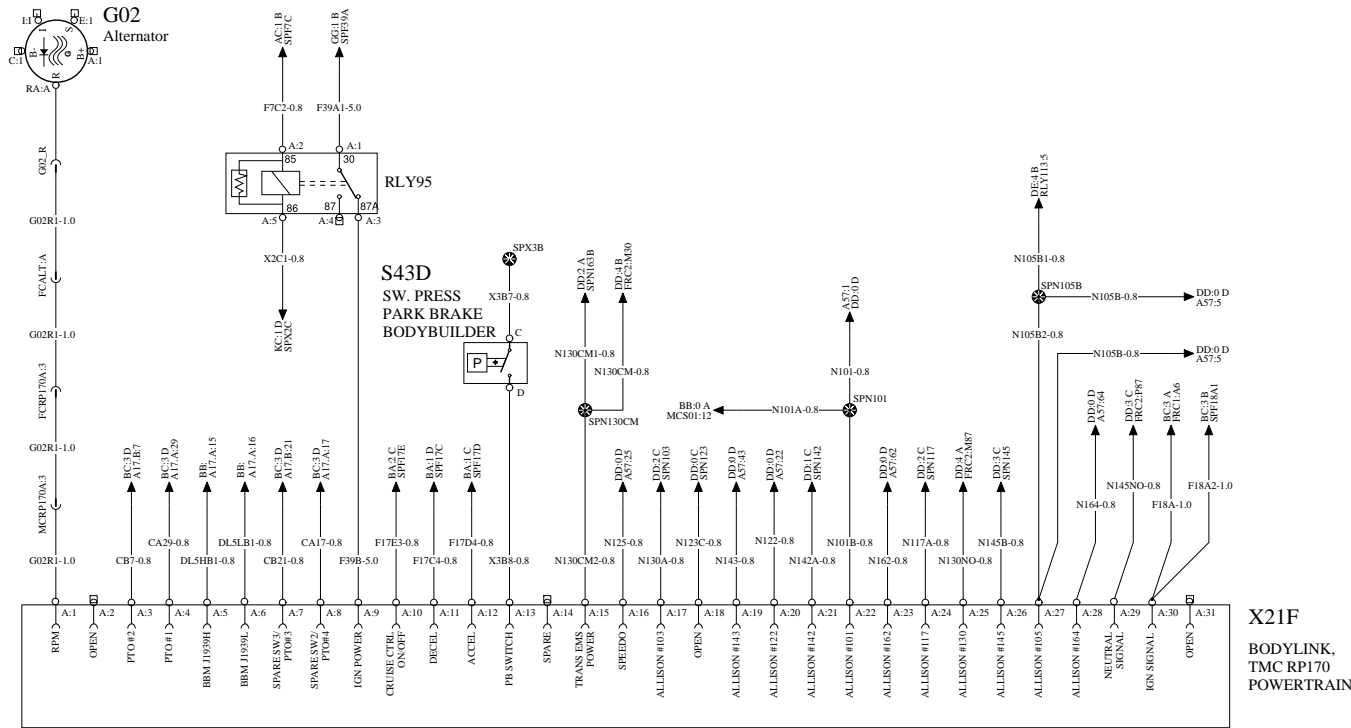
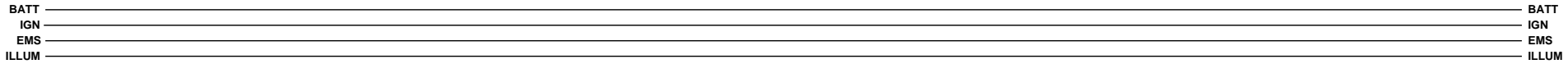
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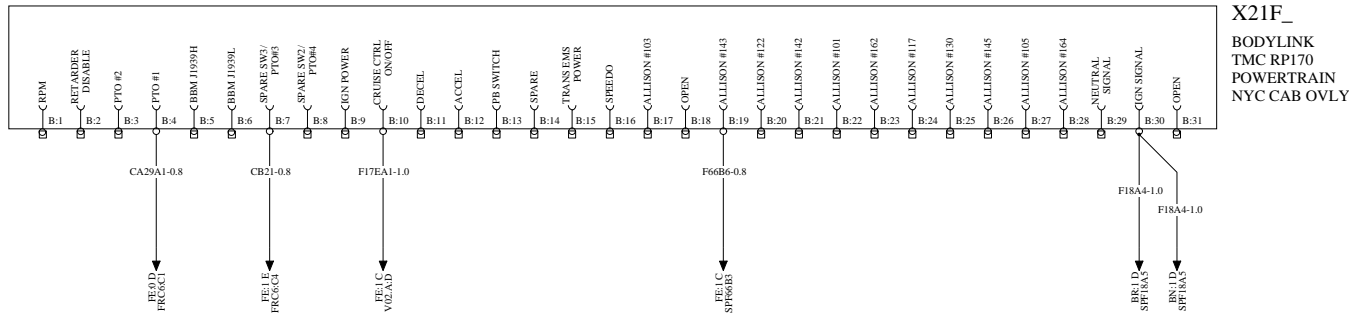
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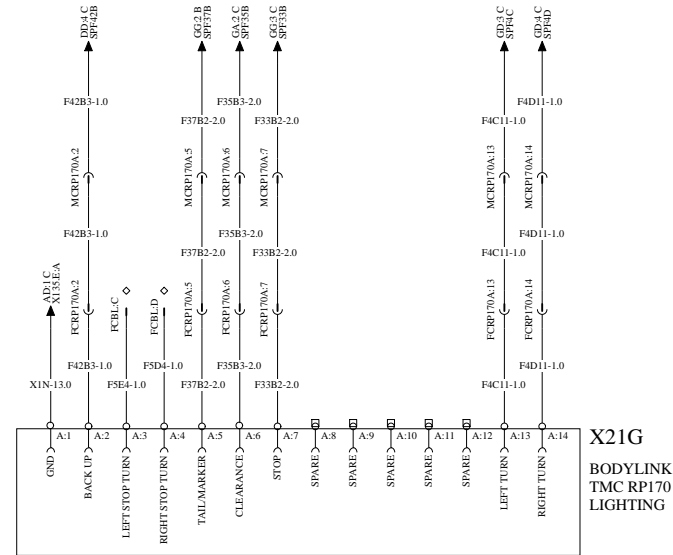
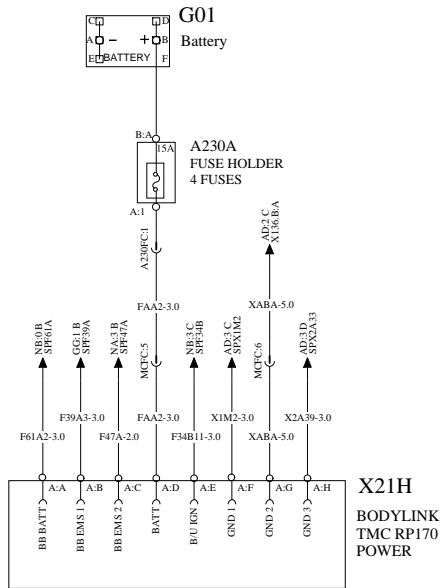
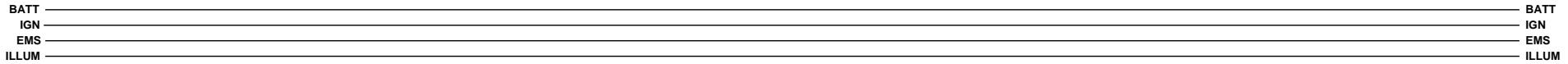
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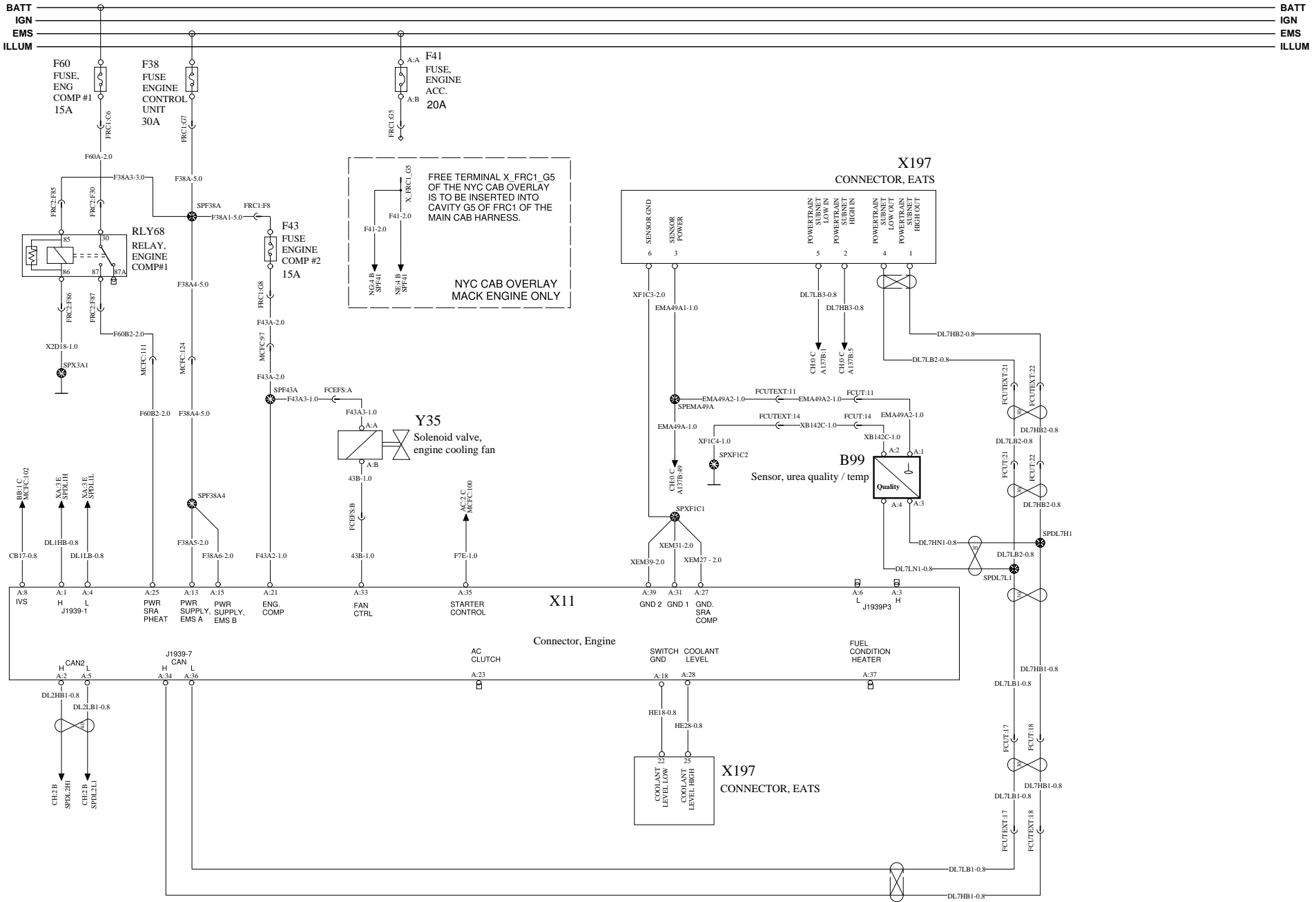
CONNECTOR X21F_B OF THE NYC CAB OVERLAY HARNESS IS TO BE CONNECTED TO CONNECTOR X21F.A OF THE MAIN CAB HARNESS.





ENGINE INTERFACE - MACK

WIRING DIAGRAM: CA



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1

2

3

4

ENGINE HEATER

WIRING DIAGRAM: CC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

A

B

B

C

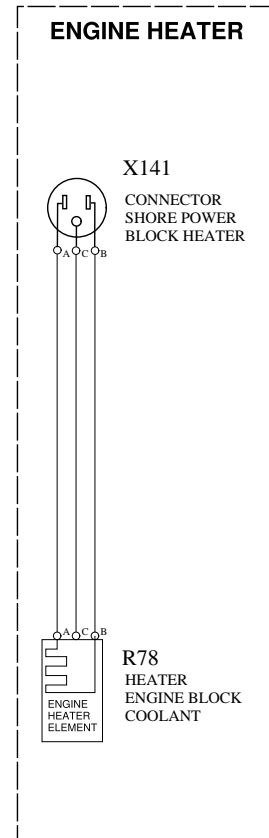
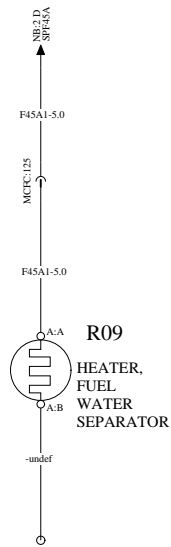
C

D

D

E

E



MACK

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2

3

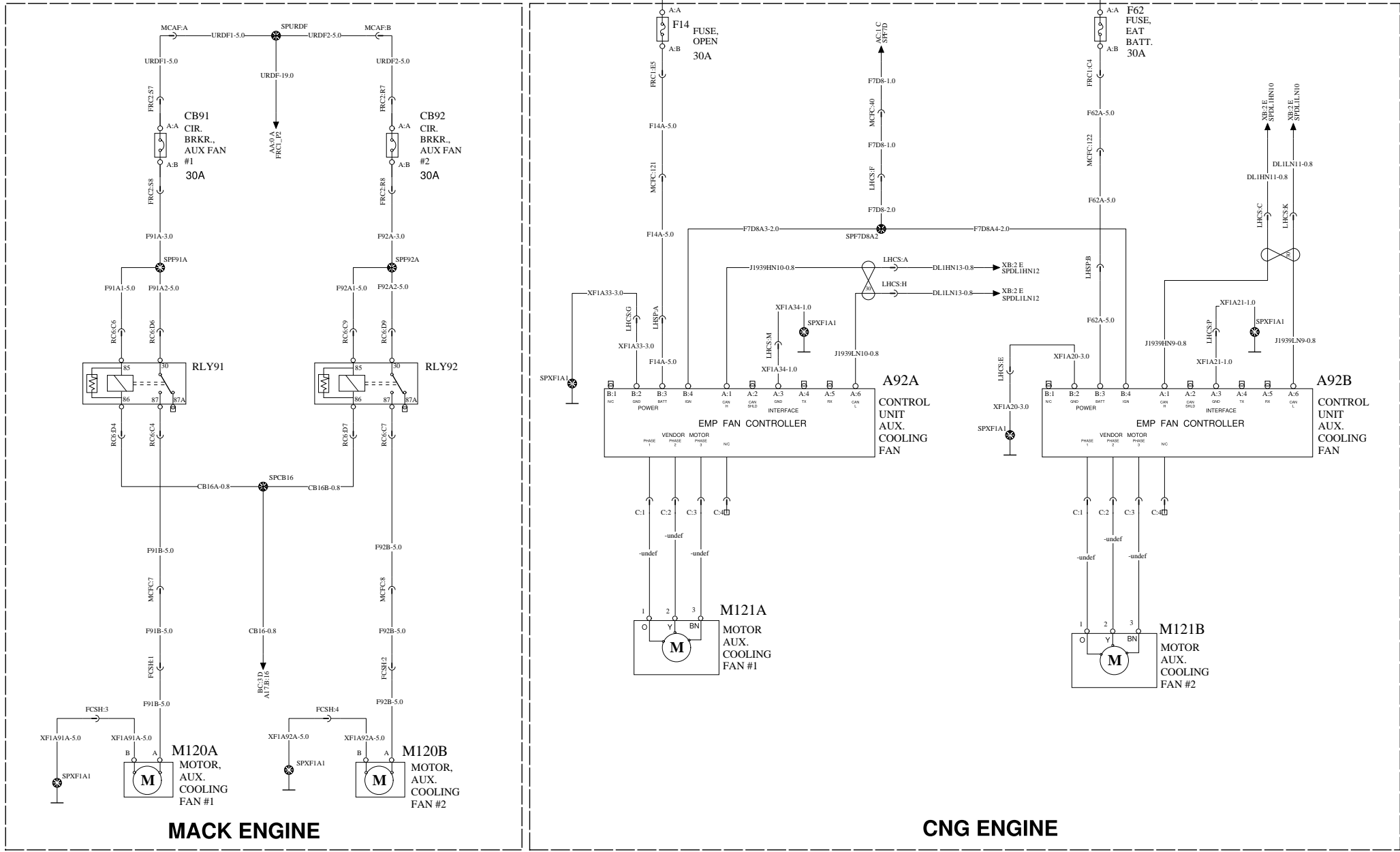
4

AUXILIARY COOLING FANS

WIRING DIAGRAM: CD

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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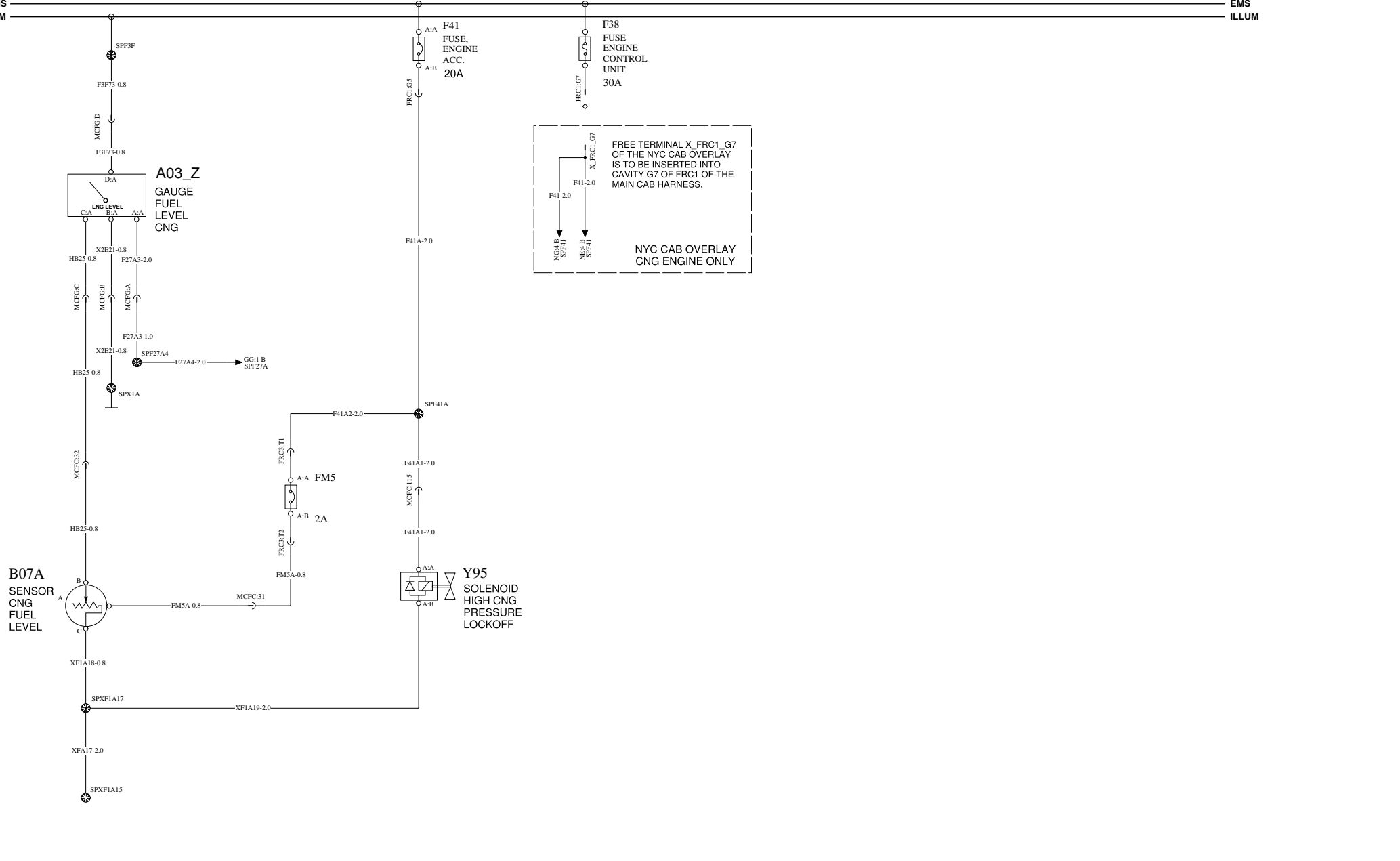
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CNG FUEL LEVEL

WIRING DIAGRAM: CG

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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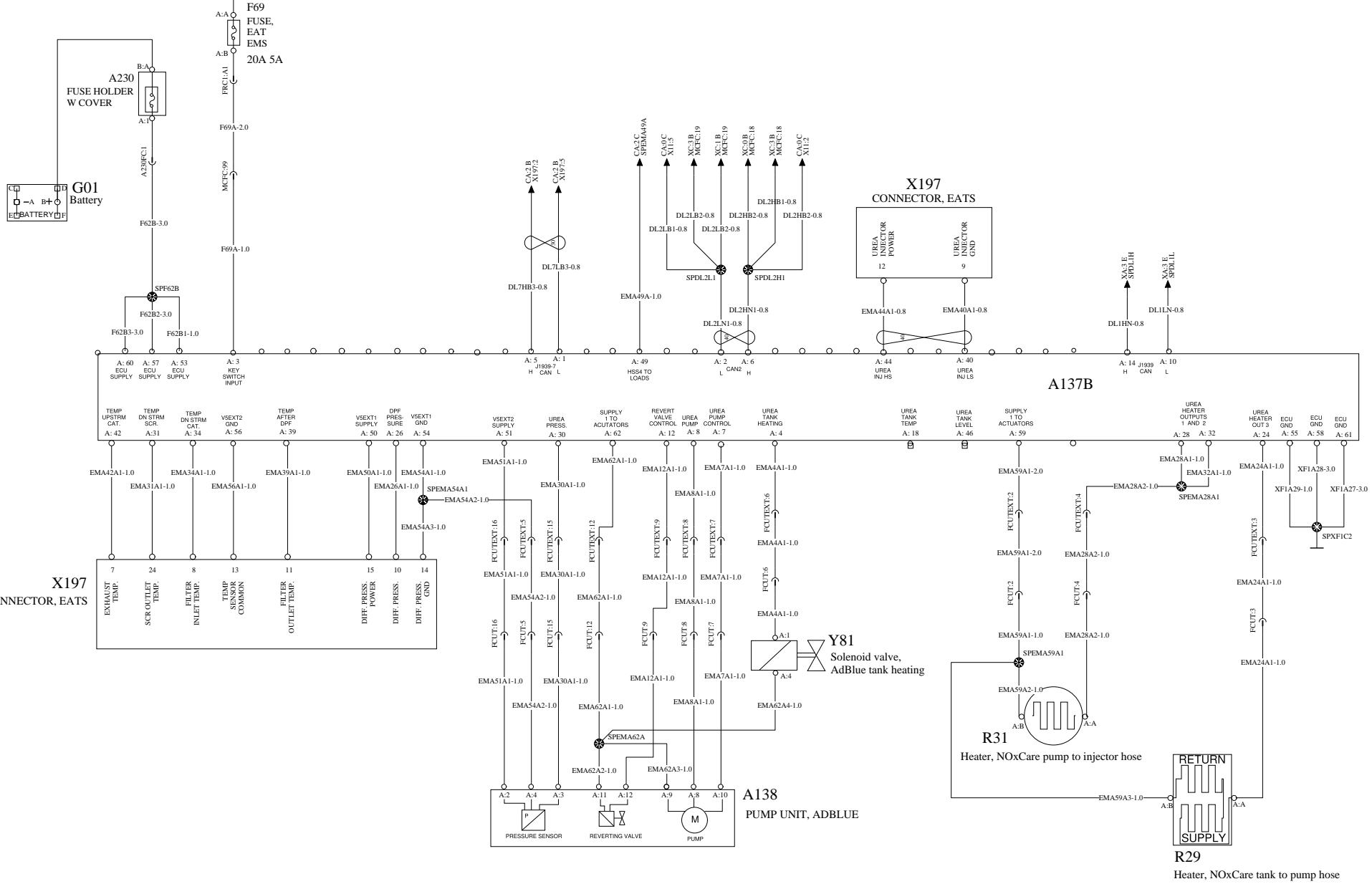
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UREA DOSING SYSTEM

WIRING DIAGRAM: CH

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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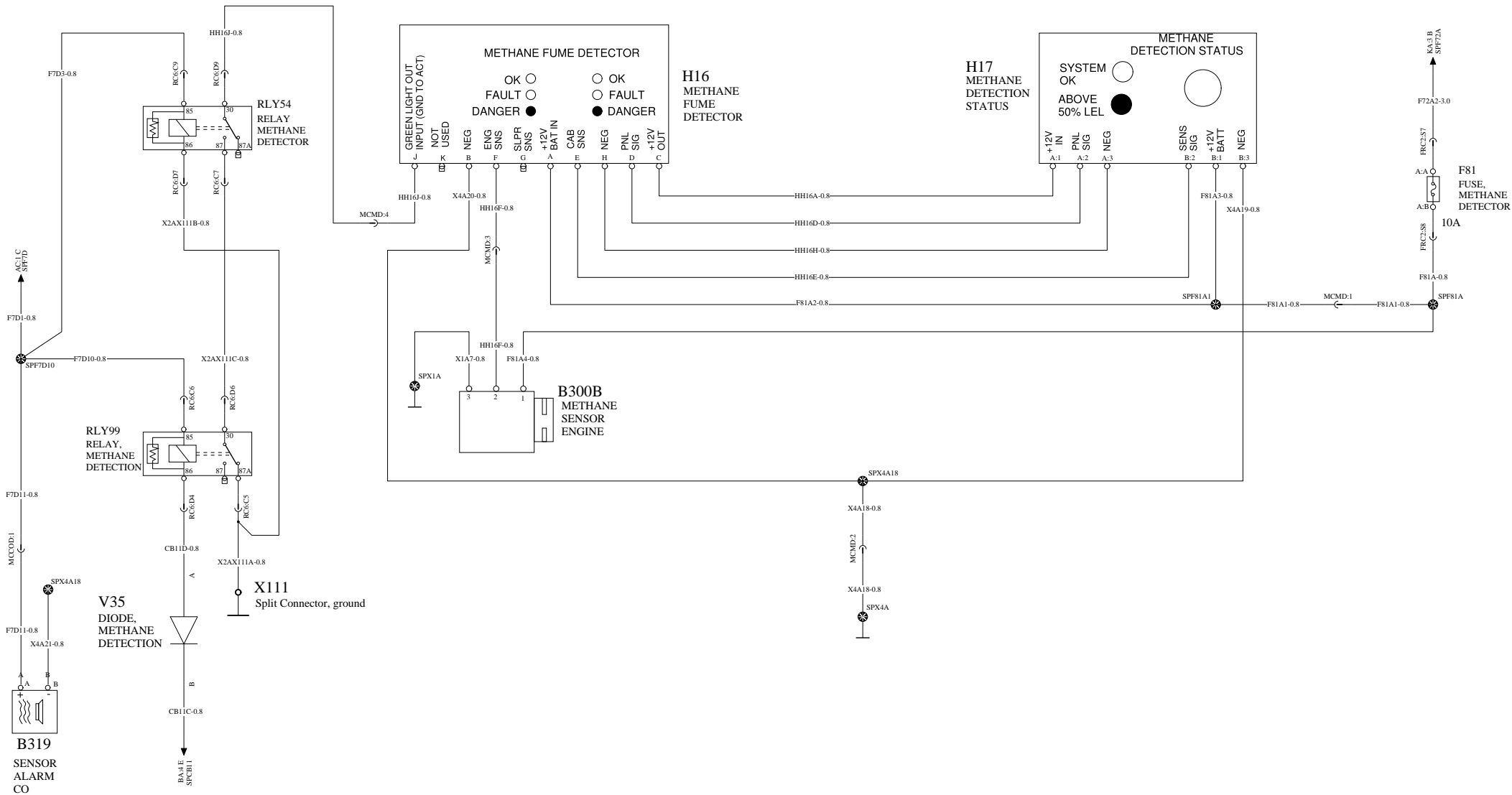
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25 (68)

METHANE & CO DETECTION

WIRING DIAGRAM: CI

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



MACK

Mack Trucks Inc.

Document title
WIRING DIAGRAM - TYPE-OL W/ NYC OPTIONS

Document type
PRODUCT SCHEMATIC

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ENGINE INTERFACE - CUMMINS ISLG OBD 2018

WIRING DIAGRAM: CJ-NYC

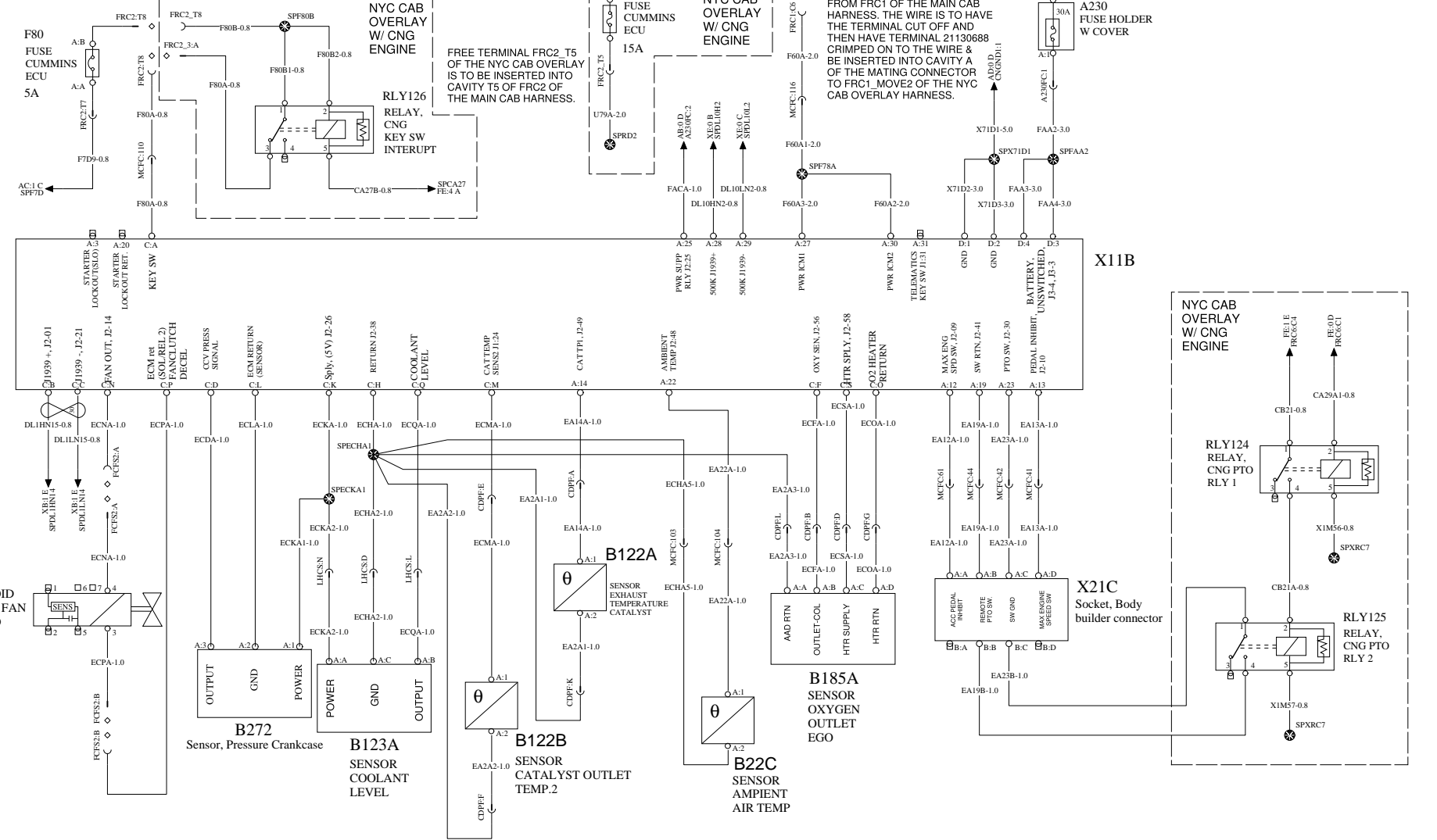
BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM

WIRE F80A IS TO BE REMOVED FROM FRC2 OF THE MAIN CAB HARNESS. THE WIRE IS TO BE INSERTED INTO CAVITY A OF THE MATING CONNECTOR TO FRC2_3 OF THE NYC CAB OVERLAY HARNESS. FREE TERMINAL FRC2_T8 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY T8 OF FRC2 OF THE MAIN CAB HARNESS.

FREE TERMINAL FRC2_T6 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO CAVITY T6 OF FRC2 OF THE MAIN CAB HARNESS.

WIRE F60A IS TO BE REMOVED FROM FRC1 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN HAVE TERMINAL 21130688 CRIMPED ON TO THE WIRE & BE INSERTED INTO CAVITY A OF THE MATING CONNECTOR TO FRC1 MOVE2 OF THE NYC CAB OVERLAY HARNESS.



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Document title
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PRODUCT SCHEMATIC

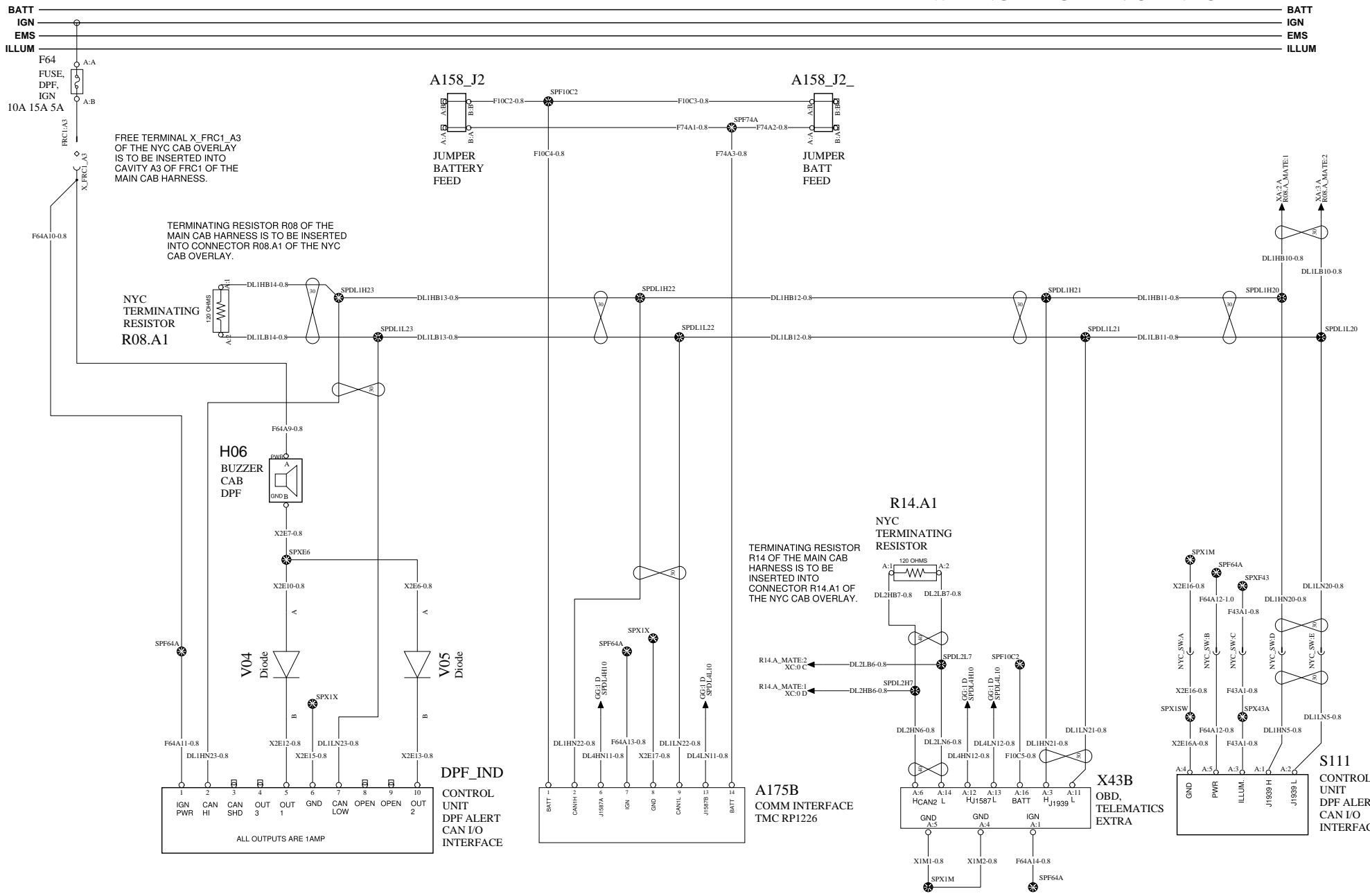
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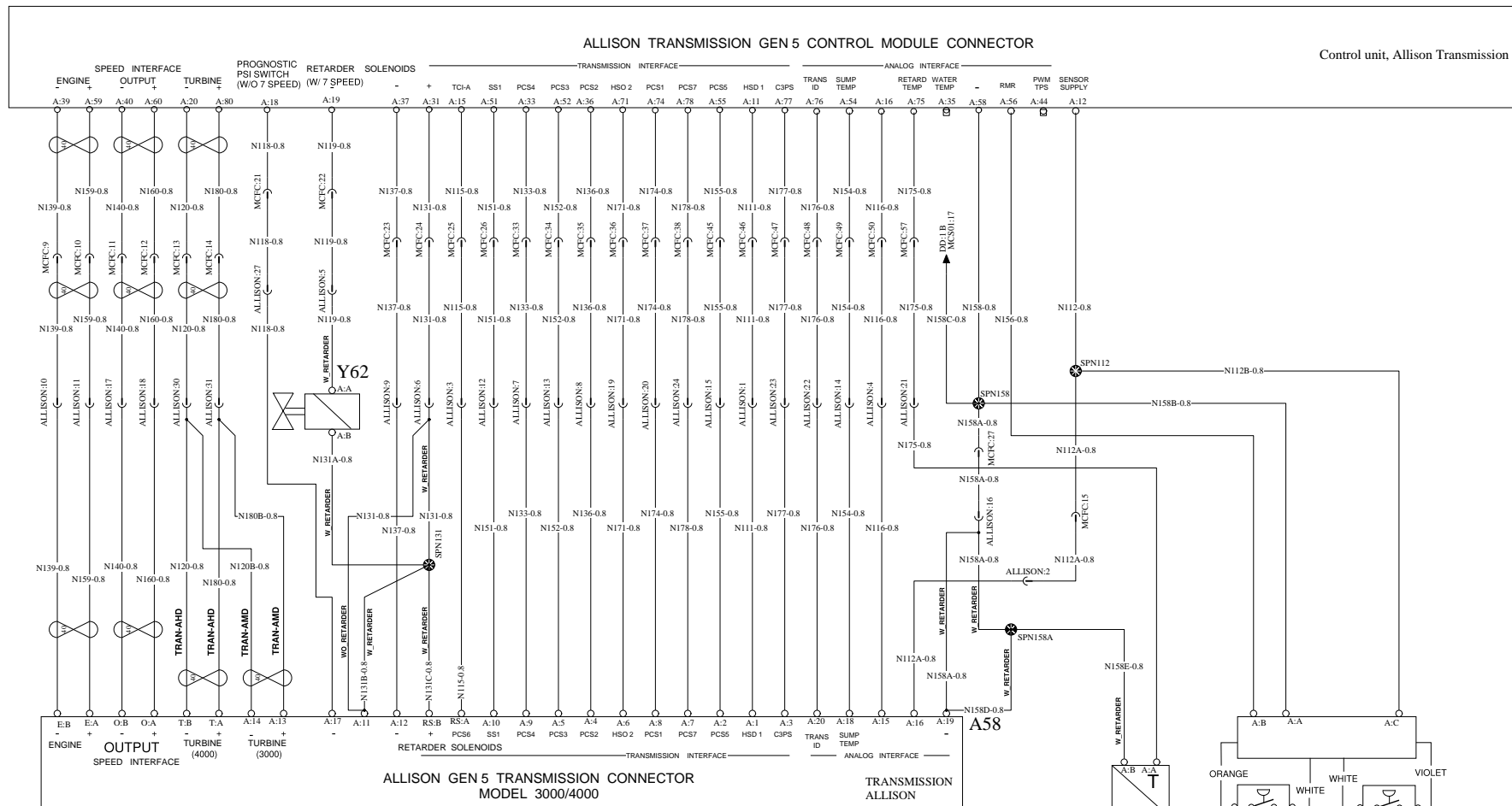
VEHICLE DATA LOGGING INTERFACE, 1 EXTRA OBD & 1 TMC RP1226 (P3X-K3X)

WIRING DIAGRAM: CK-NYC



BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM



A57

Control unit, Allison Transmission

A58

B23A

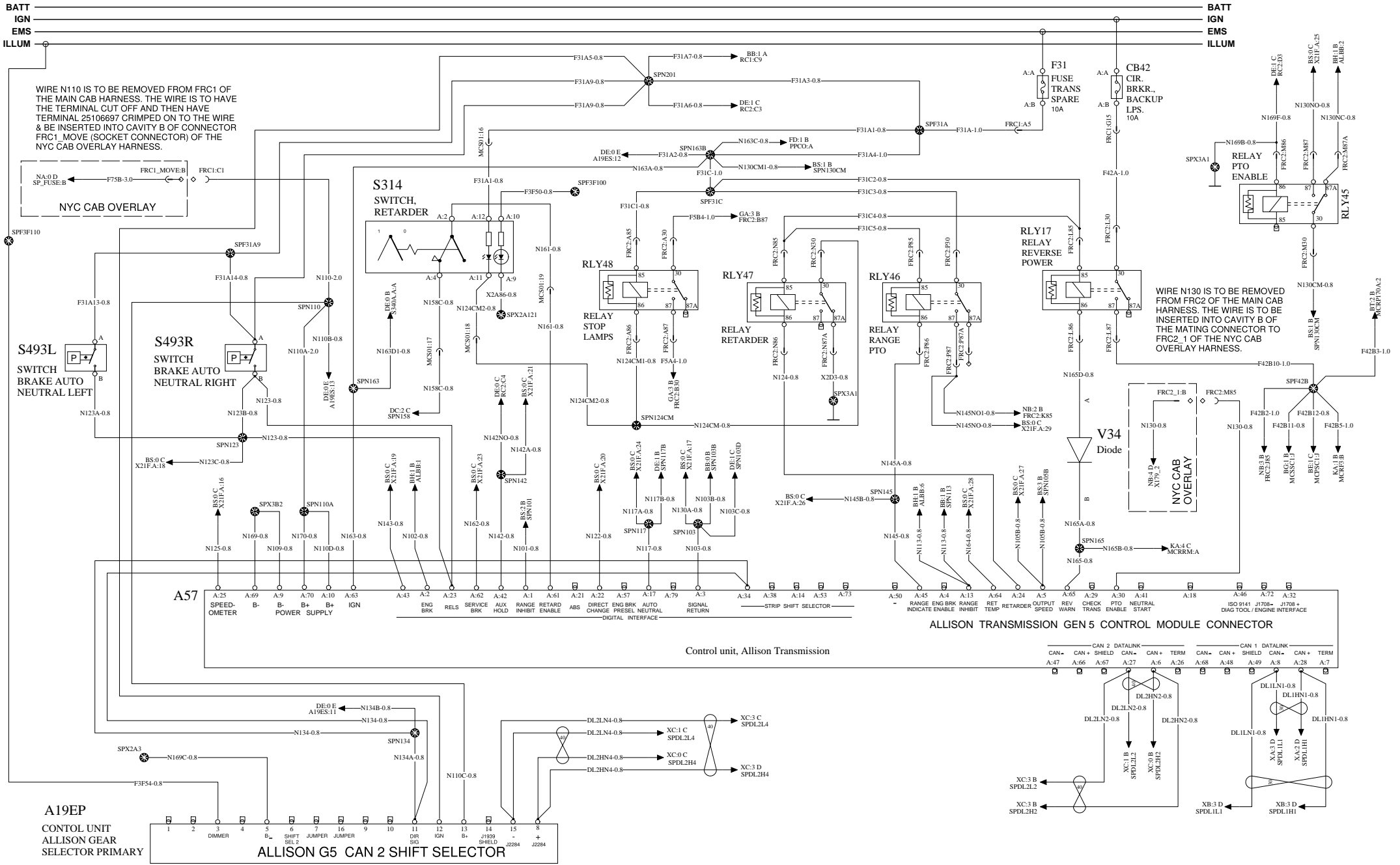
Sensor, oil temperature, retarder

A99

Component group, transmission and retarder

TRANSMISSION CONTROL - ALLISON GEN 5 2 / 3

WIRING DIAGRAM: DD-NYC



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Document title
WIRING DIAGRAM - TYPE-OL W/ NYC OPTIONS
 Document type
PRODUCT SCHEMATIC

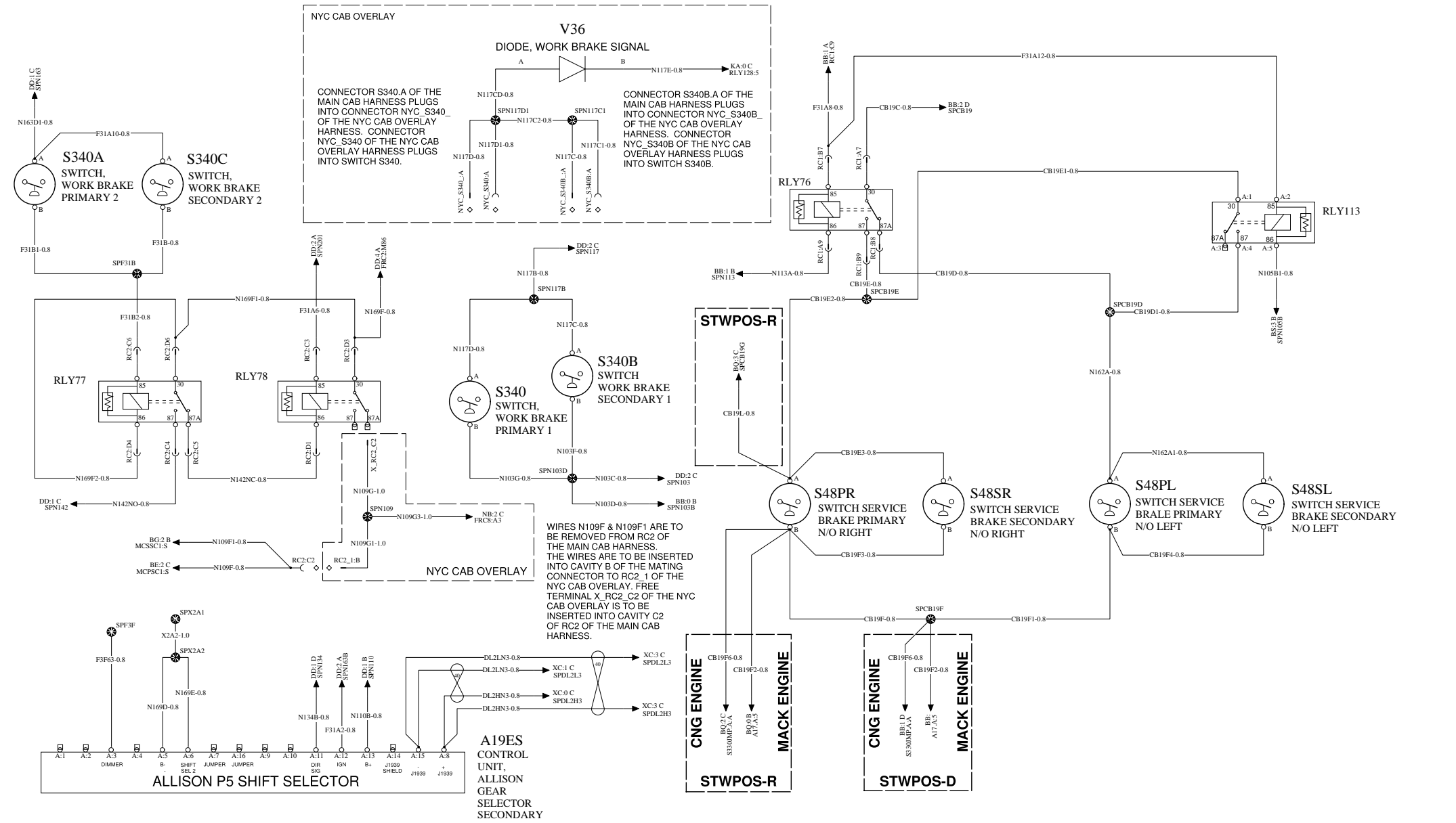
Drawing No.
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TRANSMISSION CONTROL - ALLISON GEN 5 3 / 3

WIRING DIAGRAM: DE-NYC

BATT
IGN
EMS
ILLUM



MACK

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Document title
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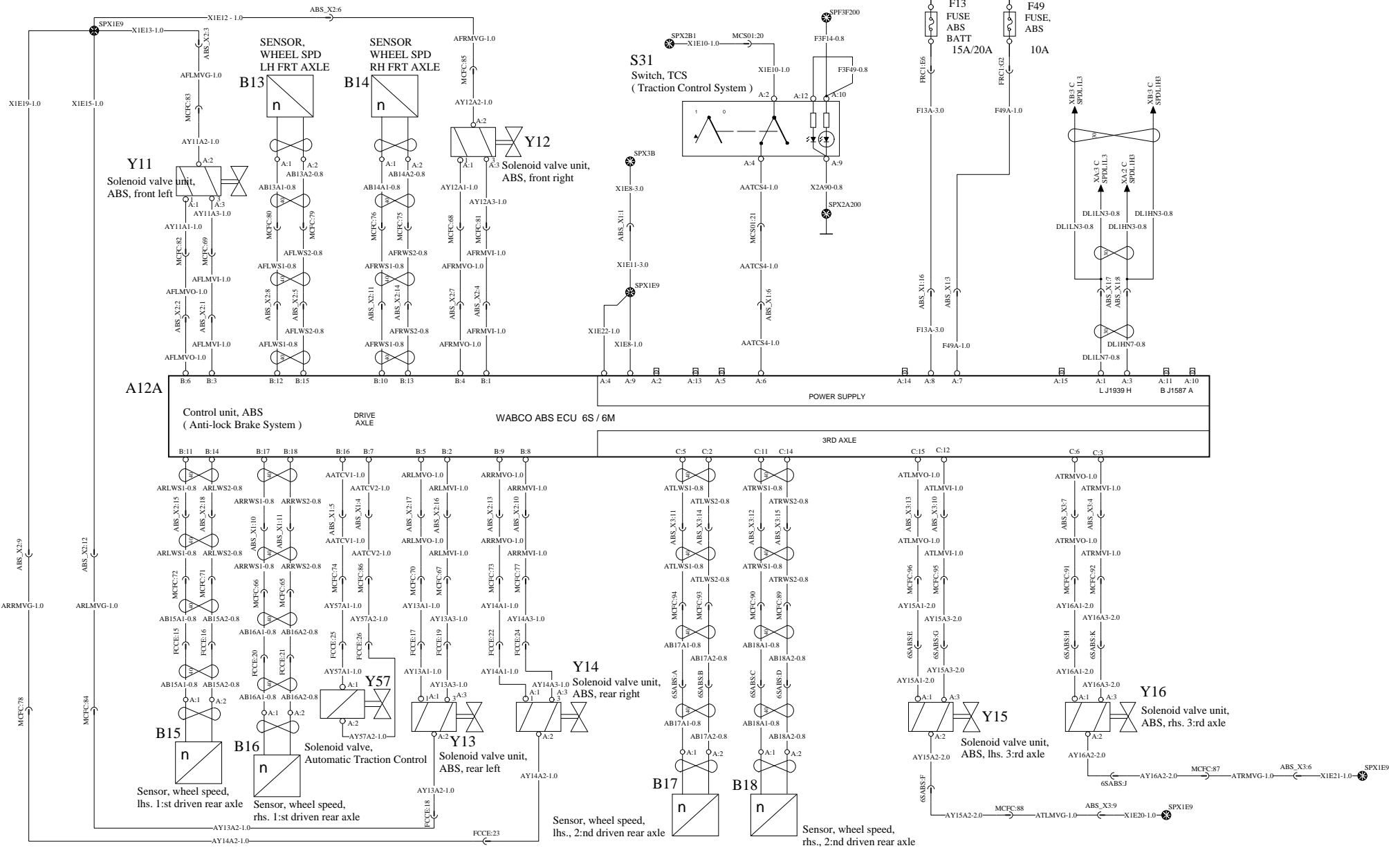
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31 (68)

ABS - MERITOR

WIRING DIAGRAM: EA

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



MACK

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Document title
WIRING DIAGRAM - TYPE-OL W/ NYC OPTIONS
Document type
PRODUCT SCHEMATIC

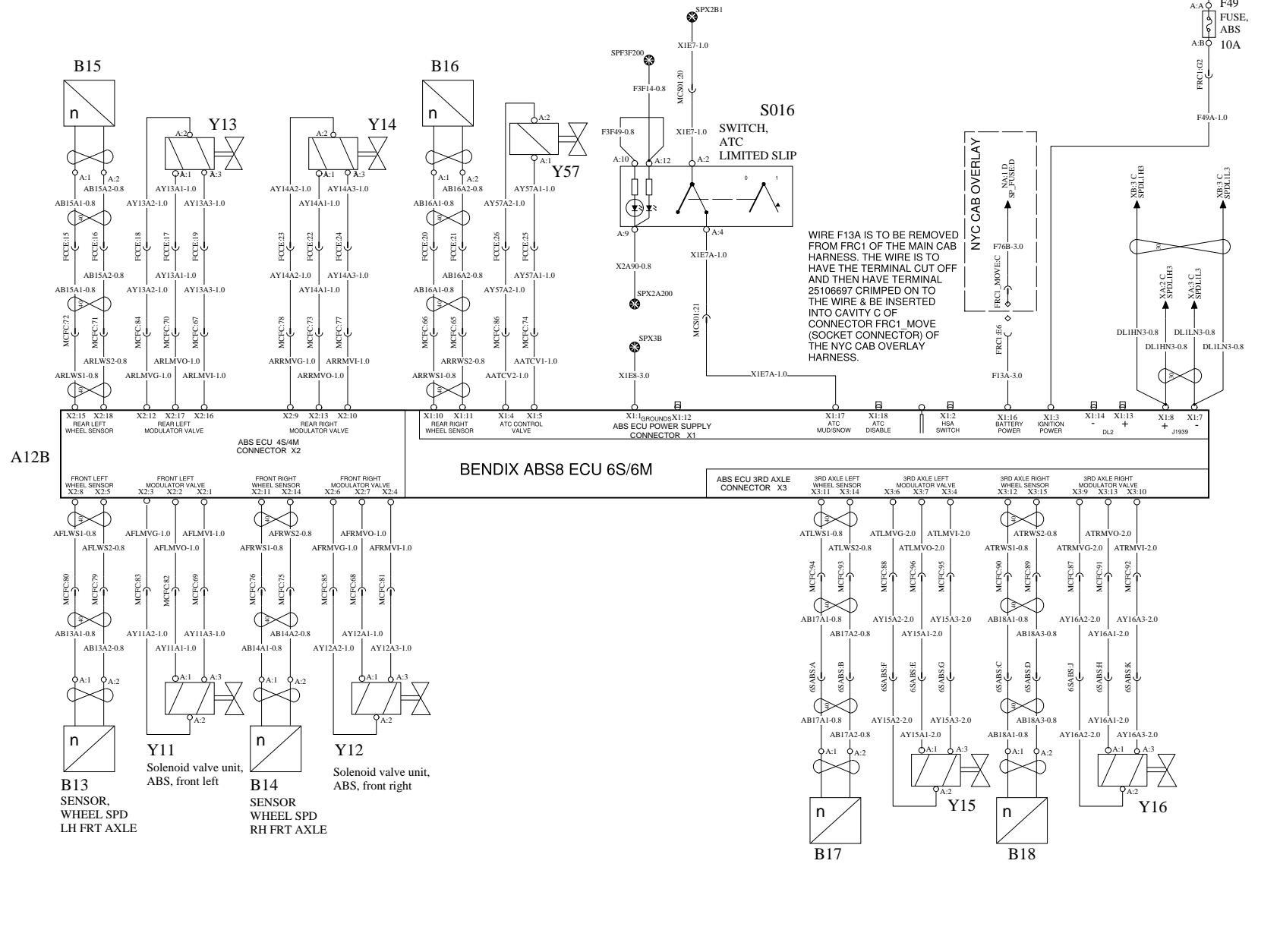
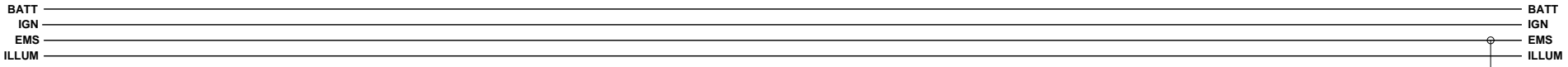
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ABS - BENDIX ABS 8

WIRING DIAGRAM: EC-NYC



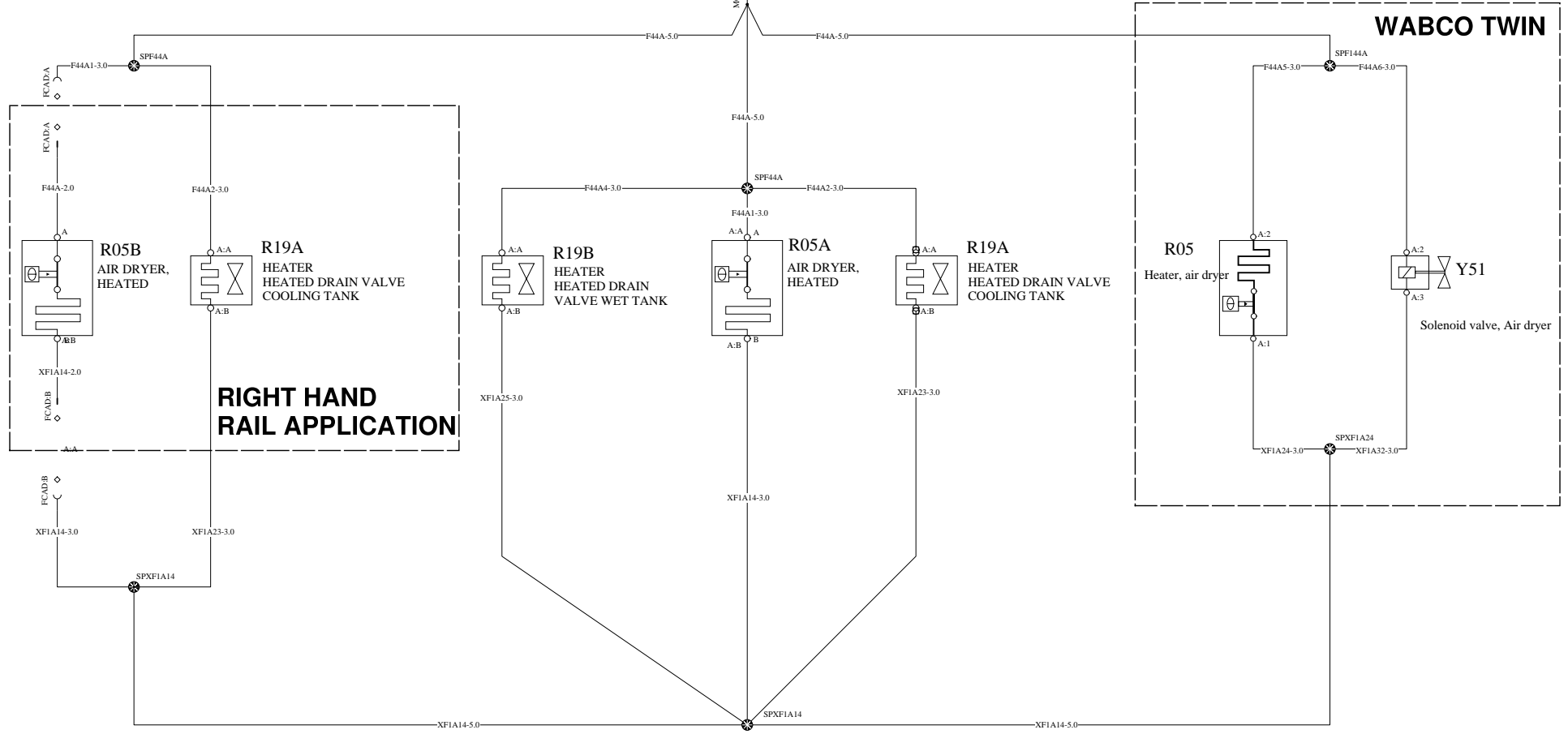
WIRE F13A IS TO BE REMOVED FROM FRC1 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN HAVE TERMINAL 2510697 CRIMPED ON TO THE WIRE & BE INSERTED INTO CAVITY C OF CONNECTOR FRC1_MOVE (SOCKET CONNECTOR) OF THE NYC CAB OVERLAY HARNESS.

AIR DRYER & HEATED DRAIN VALVE

WIRING DIAGRAM: FA

BATT
IGN
EMS
ILLUM

CB44
CIR.
BRKR.
HTD. AIR DRYER
/HTD. DRAIN
VALVE
25A



**Air Dryer, Cooling Tank
Heated Drain Valve, and
Wet Tank Heated Drain Valve**

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Document title
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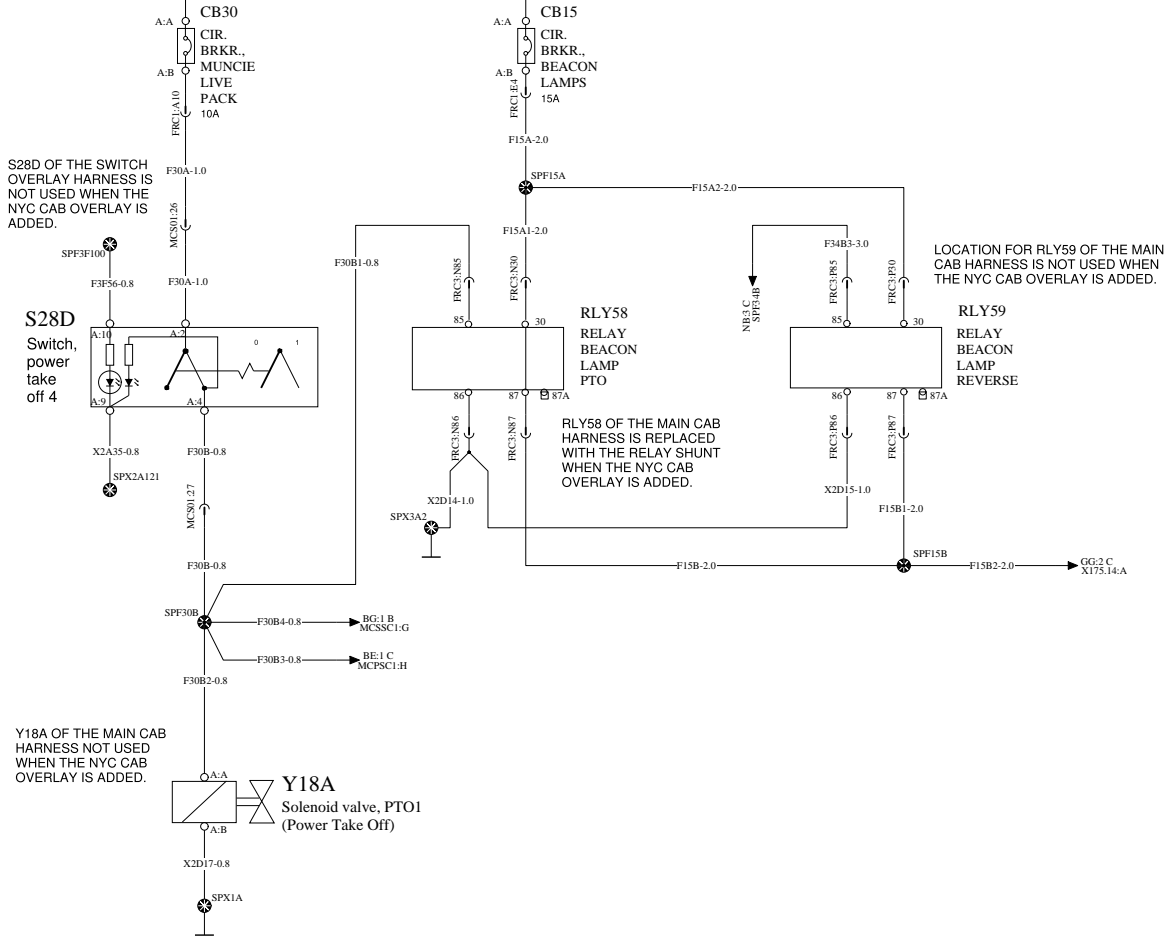
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MUNCIE PUMP, BEACON LAMPS & WORKBRAKE SOLENOID

WIRING DIAGRAM: FC-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



MACK

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Document title
WIRING DIAGRAM - TYPE-OL W/ NYC OPTIONS

Document type
PRODUCT SCHEMATIC

Drawing No.
23353114

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02

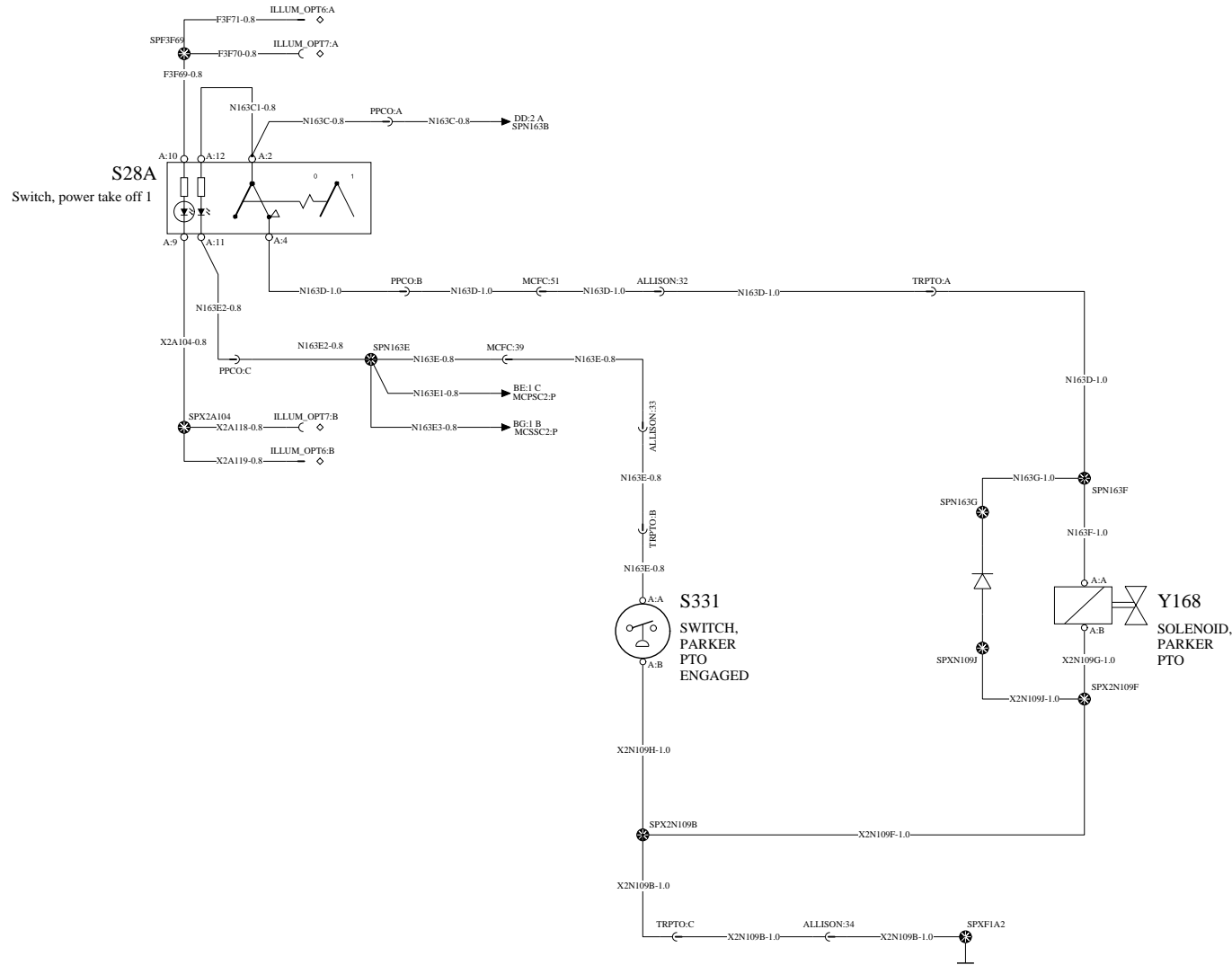
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PARKER PTO

WIRING DIAGRAM: FD

BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM



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Document title
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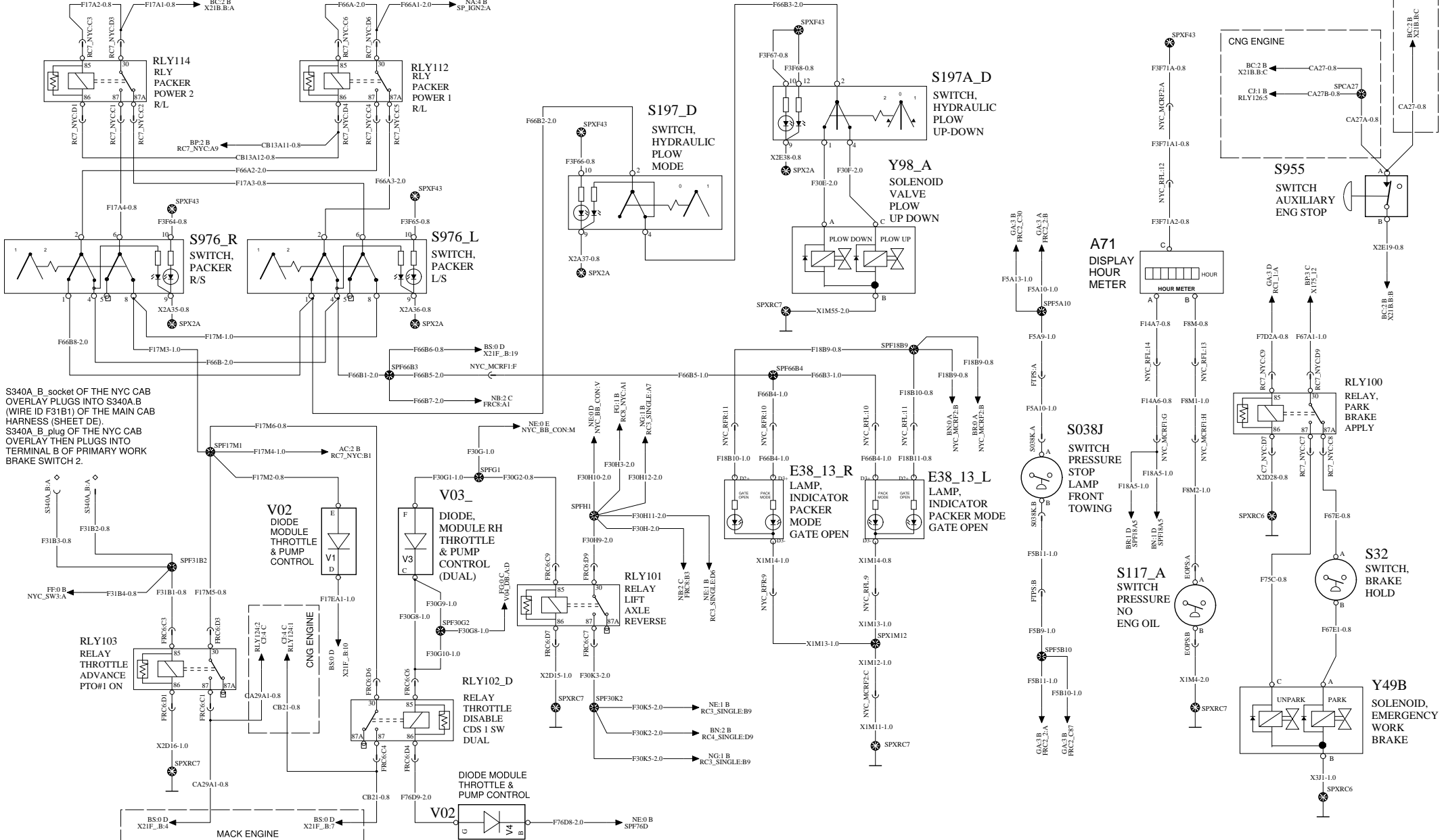
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NYC SINGLE / DUAL BIN BB

WIRING DIAGRAM: FE-NYC

BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM



MACK

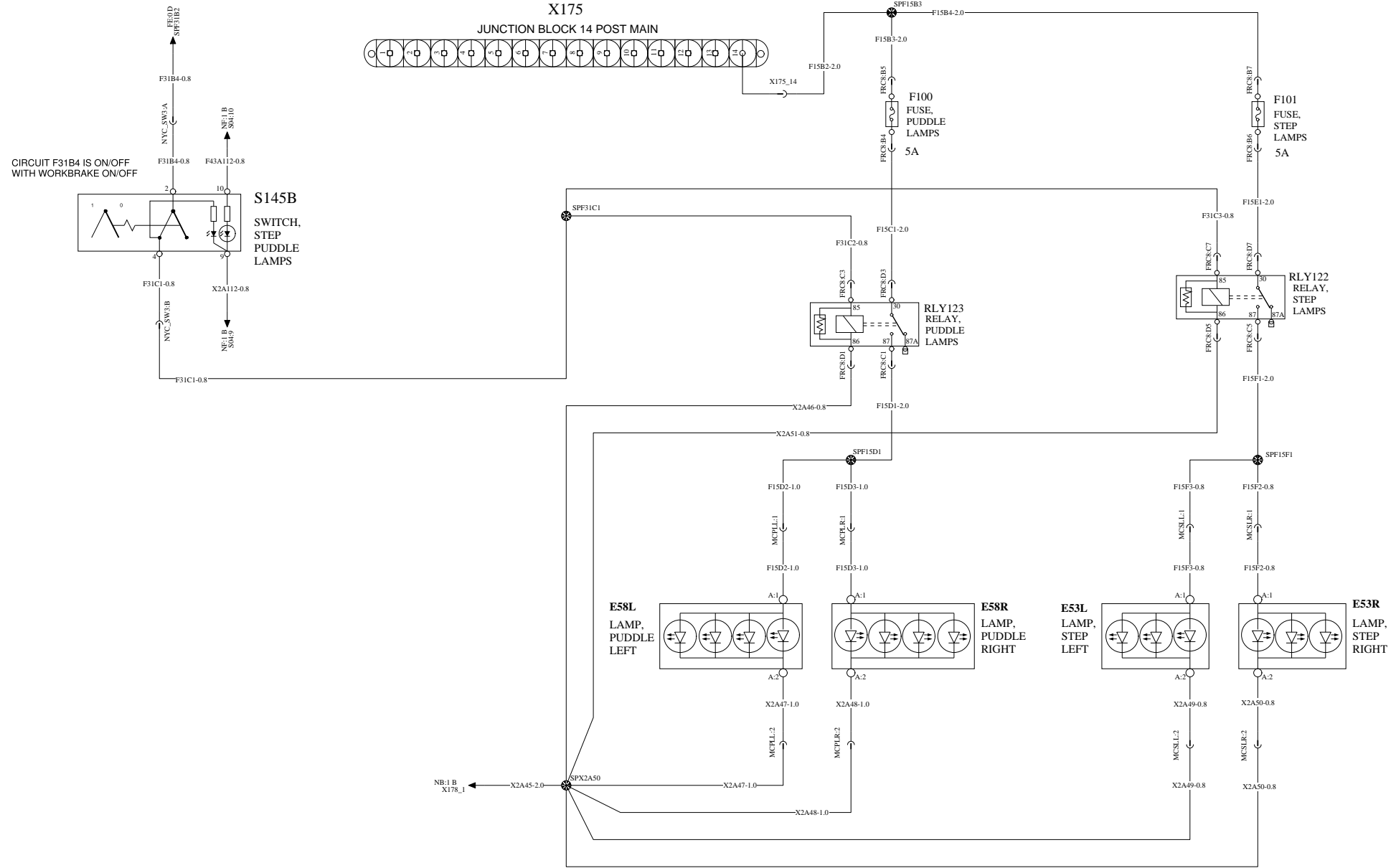
Mack Trucks Inc.

Document title WIRING DIAGRAM - TYPE-OL W/ NYC OPTIONS	Document No. 23353114	Issue 02	Page 38 (68)
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NYC SINGLE BIN STEP & PUDDLE WORKING LAMPS

WIRING DIAGRAM: FF-NYC

BATT
IGN
EMS
ILLUM



MACK

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23353114

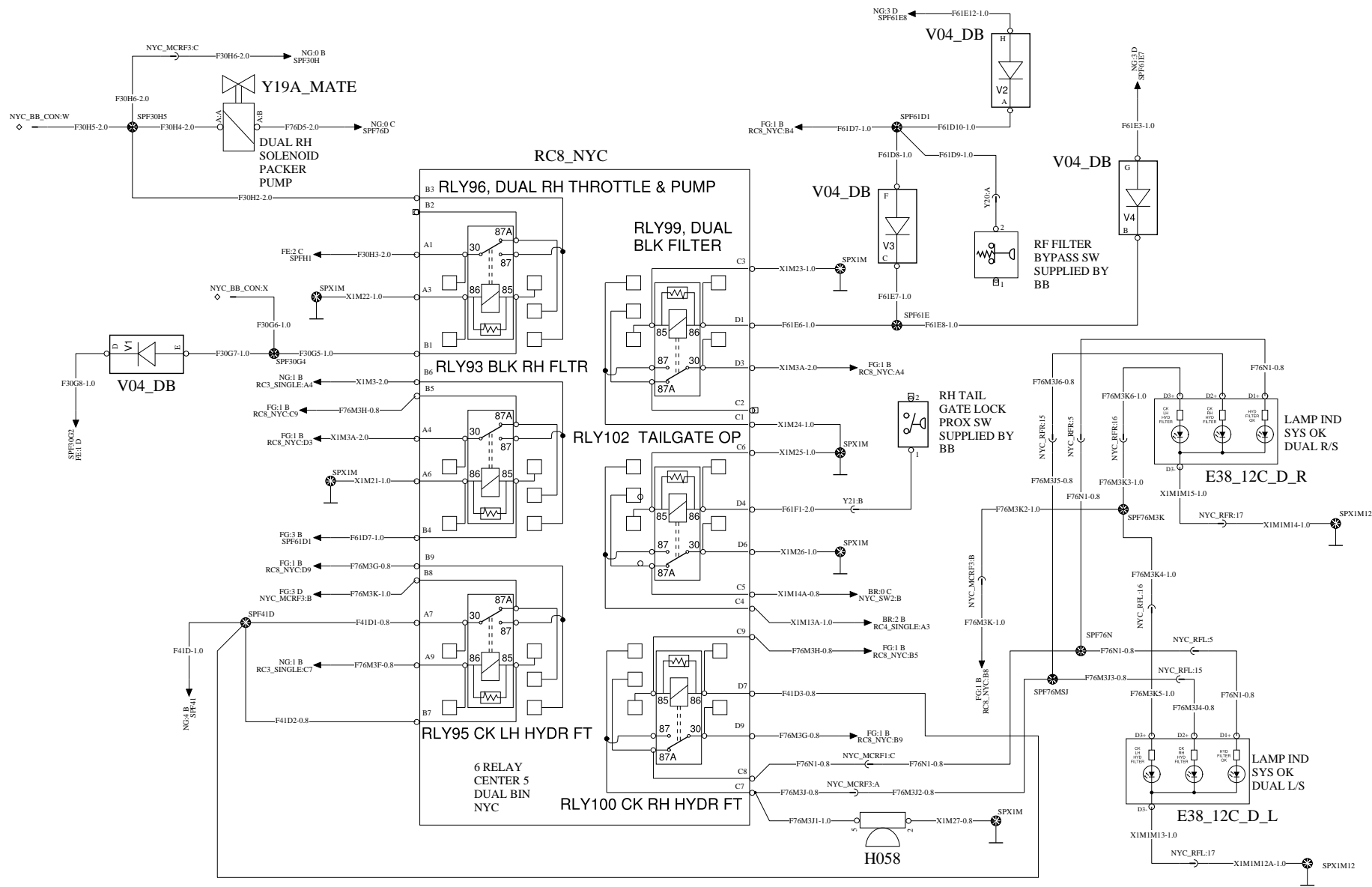
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NYC DUAL BIN BB

WIRING DIAGRAM: FG-NYC

BATT
IGN
EMS
ILLUM



MACK

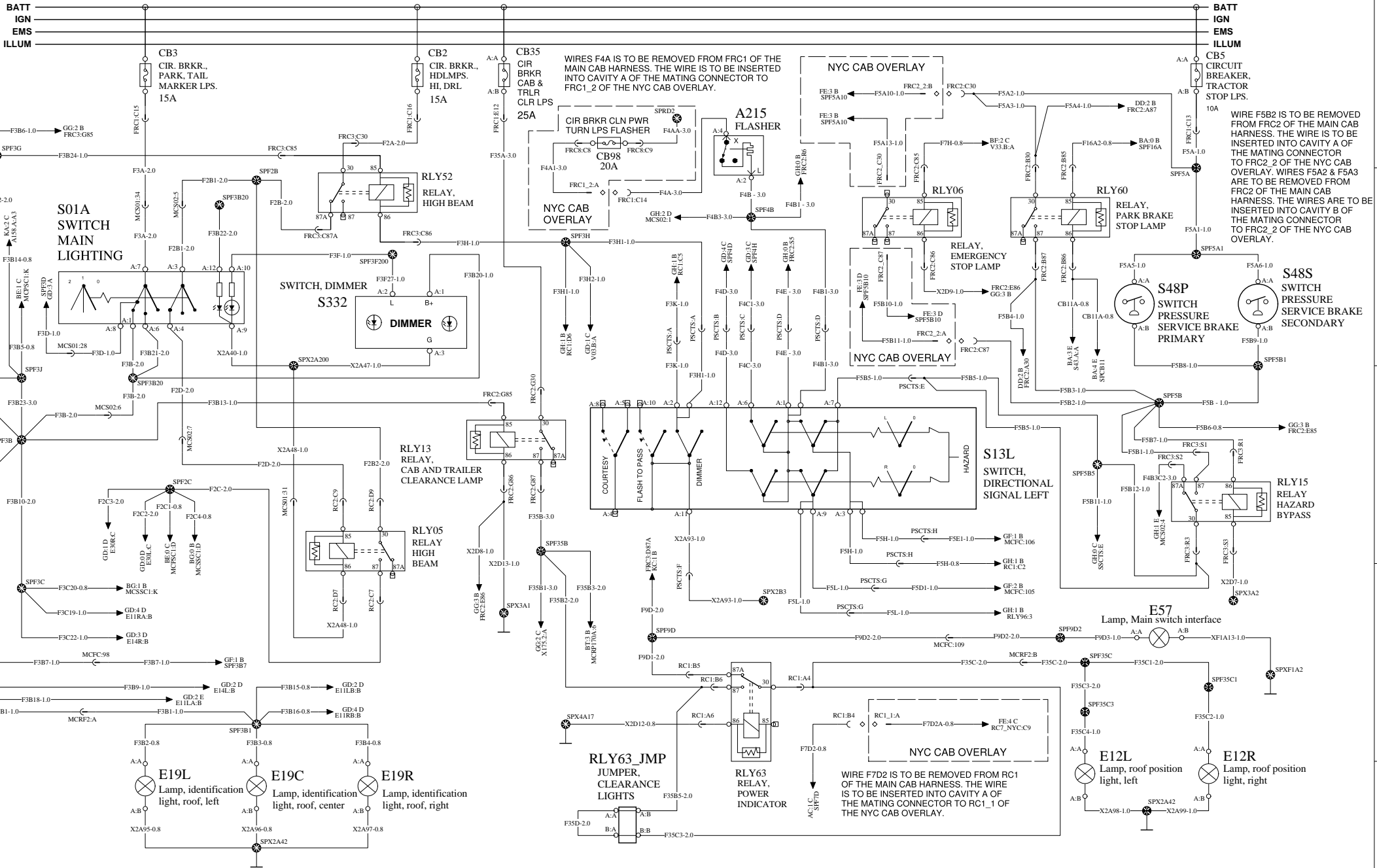
Mack Trucks Inc.

Document title
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LIGHTING - CONTROLS

WIRING DIAGRAM: GA-NYC



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PRODUCT SCHEMATIC

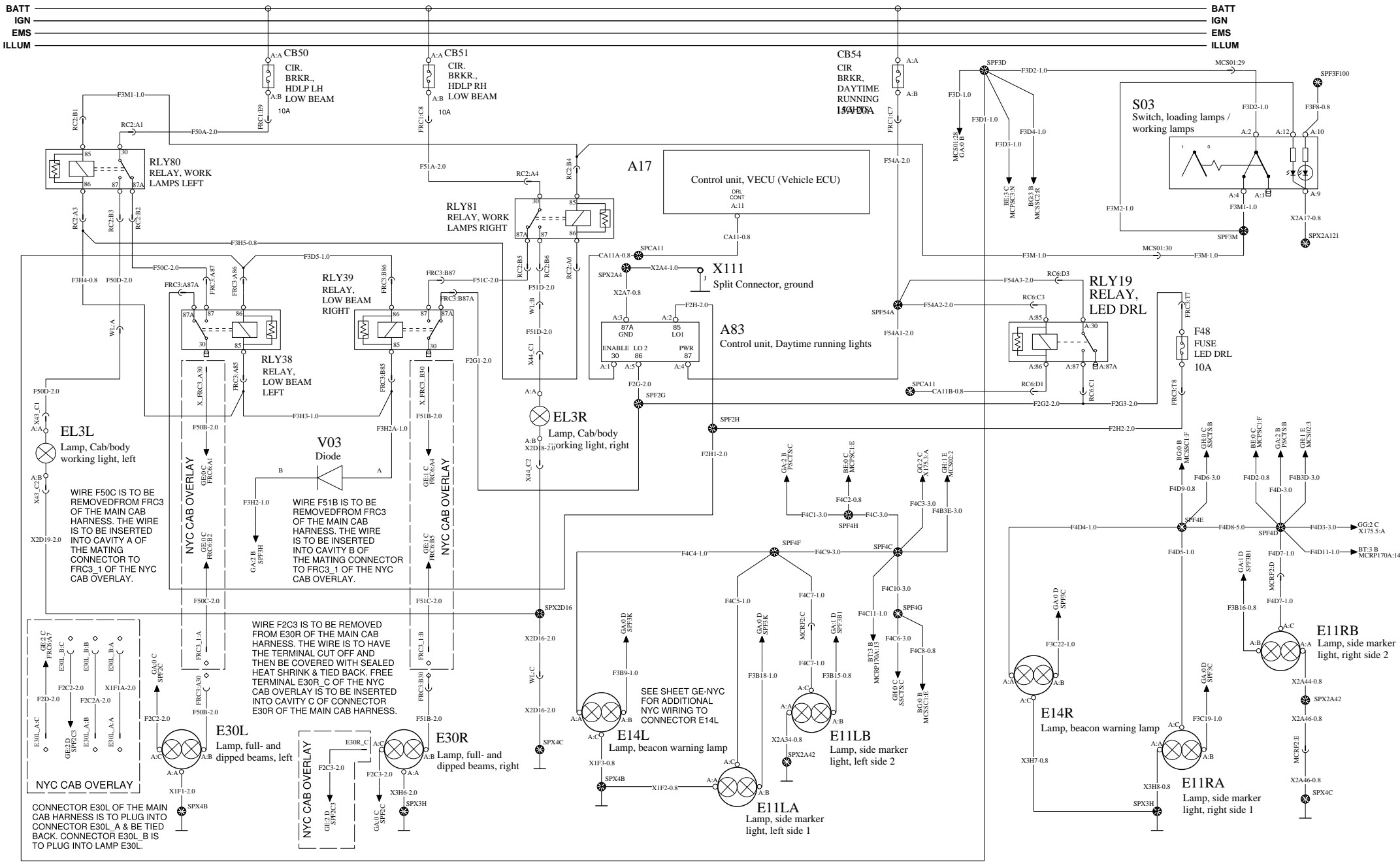
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LIGHTING - FORWARD SIGNAL

WIRING DIAGRAM: GD-NYC



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Document title
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Document type
PRODUCT SCHEMATIC

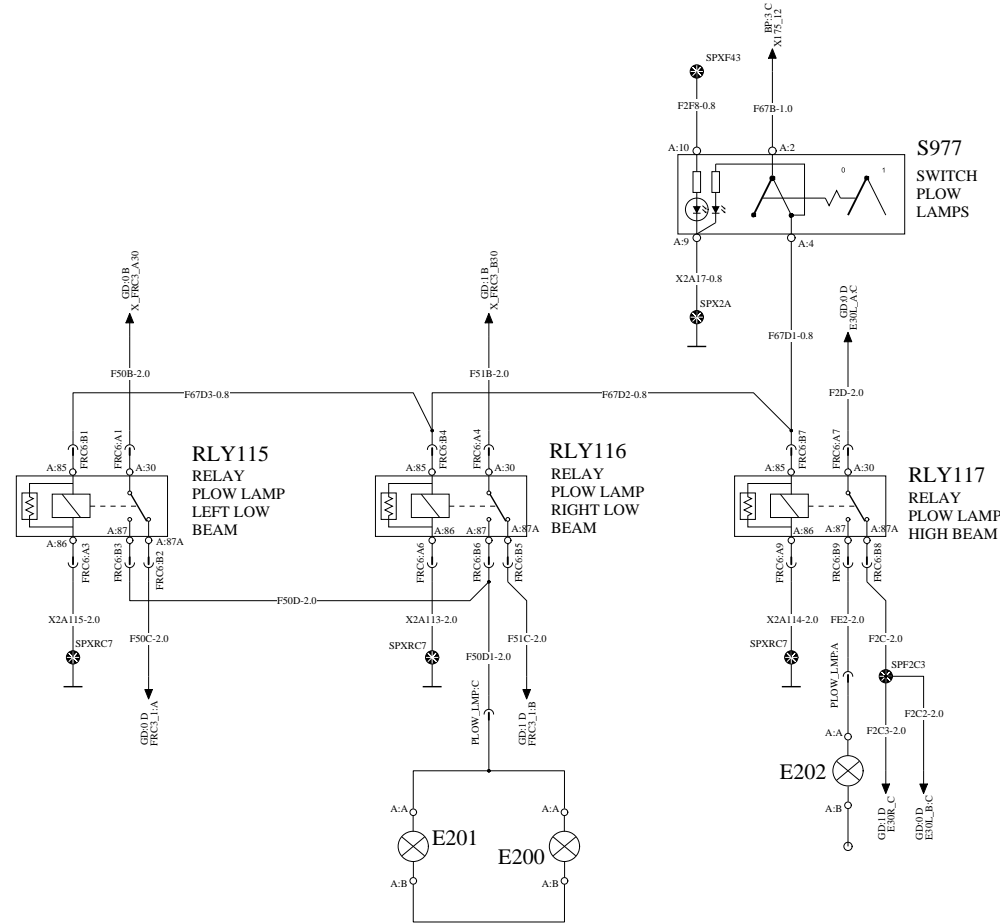
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LIGHTING - NYC PLOW LIGHTS

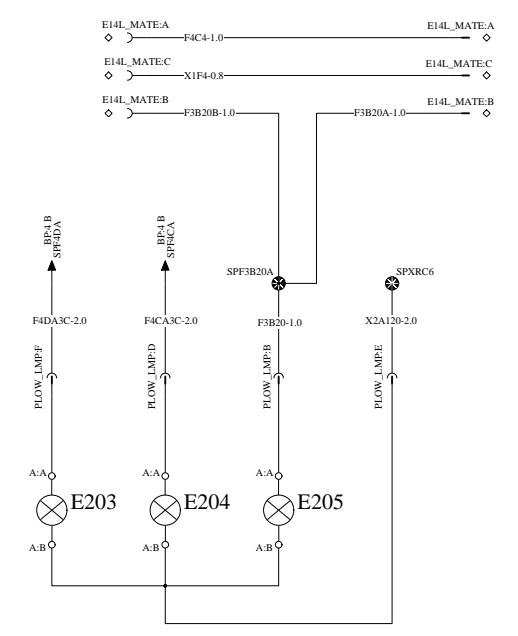
WIRING DIAGRAM: GE-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



CONNECTOR E14L (SEE SHEET GD-NYC) OF THE MAIN CAB HARNESS IS TO PLUG INTO CONNECTOR E14L_MATE_plug & BE TIED BACK. CONNECTOR E14L_MATE_socket IS TO PLUG INTO LAMP E14L.



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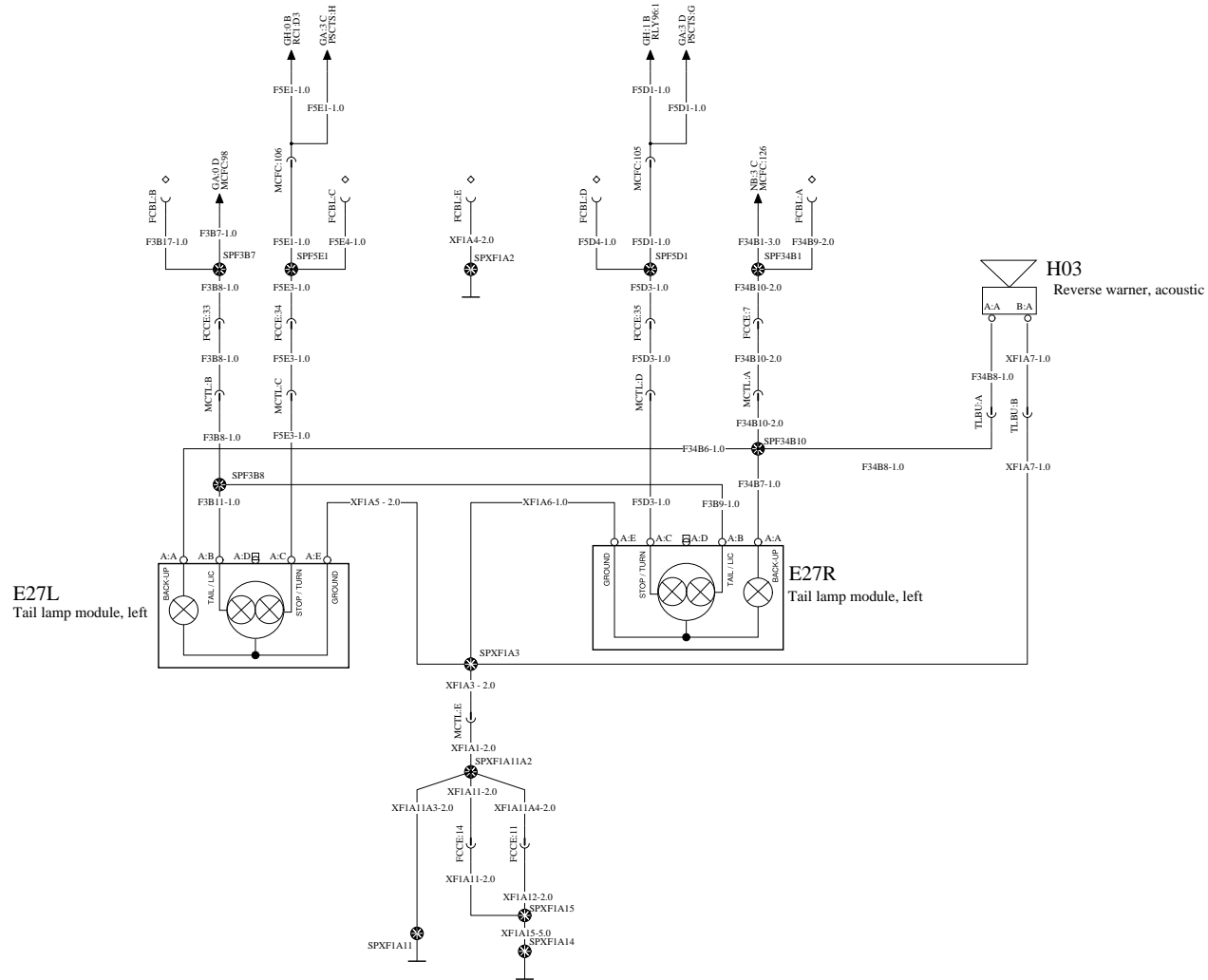
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LIGHTING - TAIL LAMP

WIRING DIAGRAM: GF

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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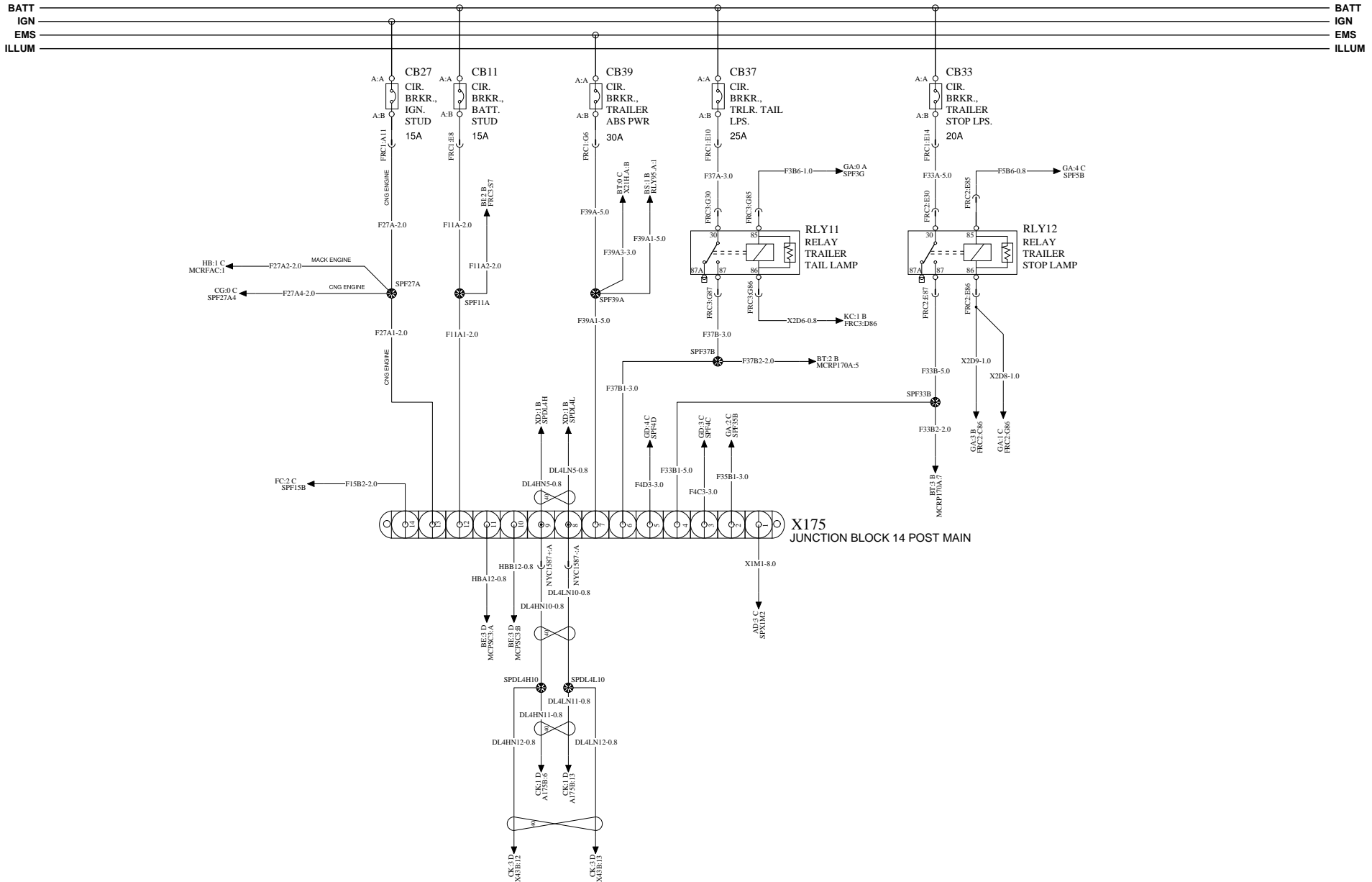
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LIGHTING - TRAILER CONTROL

WIRING DIAGRAM: GG



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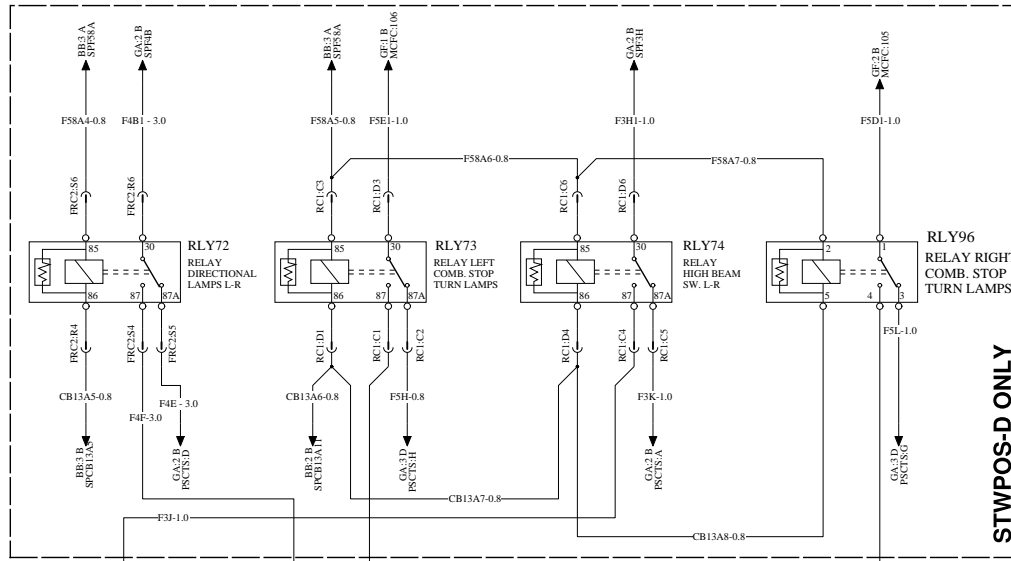
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LIGHTING - LH / RH CONTROL & INTERIOR

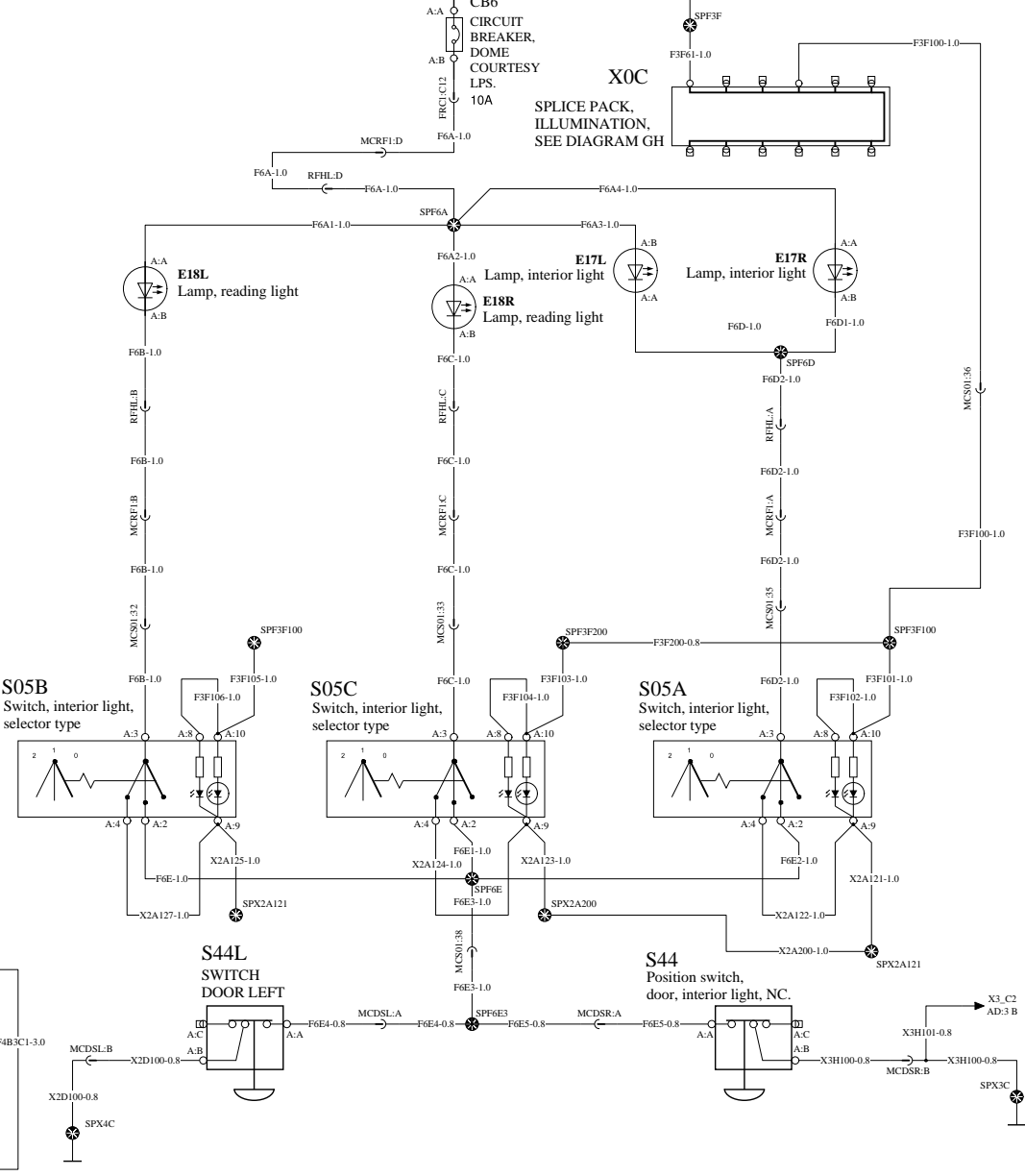
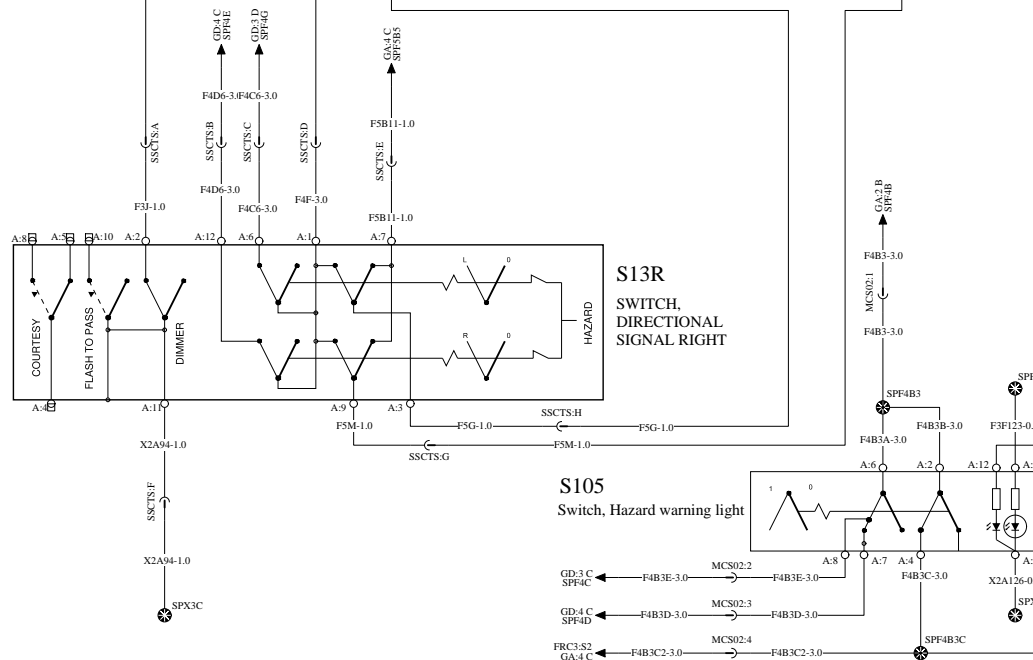
WIRING DIAGRAM: GH

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



STWPOS-D ONLY



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LIGHTING - PLOW LAMPS & GLAD HAND BRAKE LIGHT INTERFACE

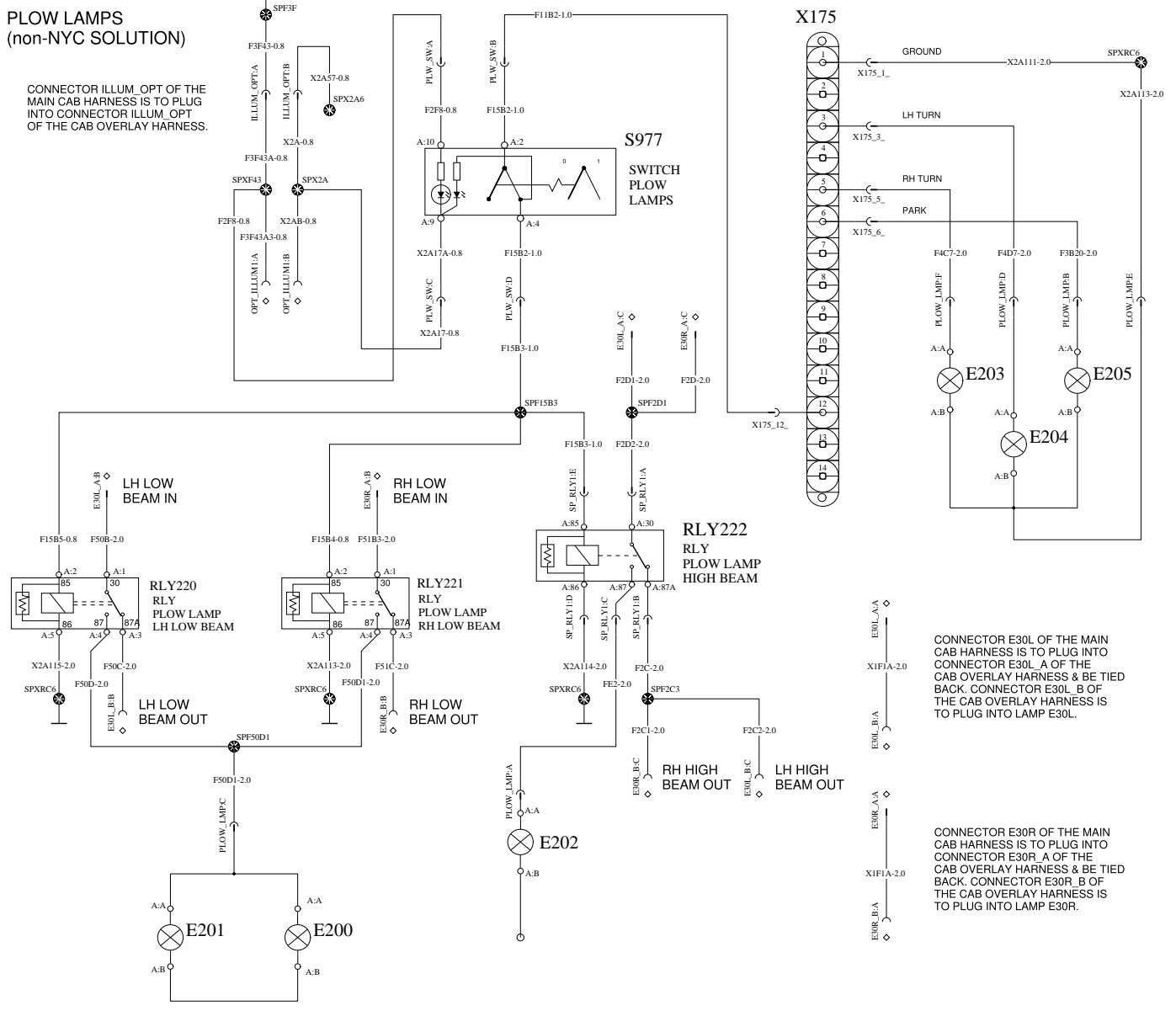
WIRING DIAGRAM: GJ

BATT
IGN
EMS
ILLUM

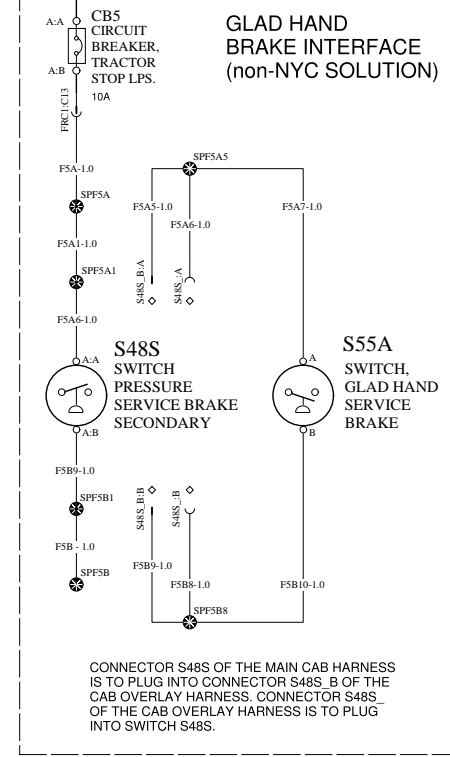
BATT
IGN
EMS
ILLUM

PLOW LAMPS
(non-NYC SOLUTION)

CONNECTOR ILLUM_OPT OF THE MAIN CAB HARNESS IS TO PLUG INTO CONNECTOR ILLUM_OPT OF THE CAB OVERLAY HARNESS.



GLAD HAND BRAKE INTERFACE
(non-NYC SOLUTION)



CONNECTOR S48S OF THE MAIN CAB HARNESS IS TO PLUG INTO CONNECTOR S48S_B OF THE CAB OVERLAY HARNESS. CONNECTOR S48S_ OF THE CAB OVERLAY HARNESS IS TO PLUG INTO SWITCH S48S.

CONNECTOR E30L OF THE MAIN CAB HARNESS IS TO PLUG INTO CONNECTOR E30L_A OF THE CAB OVERLAY HARNESS & BE TIED BACK. CONNECTOR E30L_B OF THE CAB OVERLAY HARNESS IS TO PLUG INTO LAMP E30L.

CONNECTOR E30R OF THE MAIN CAB HARNESS IS TO PLUG INTO CONNECTOR E30R_A OF THE CAB OVERLAY HARNESS & BE TIED BACK. CONNECTOR E30R_B OF THE CAB OVERLAY HARNESS IS TO PLUG INTO LAMP E30R.

MACK

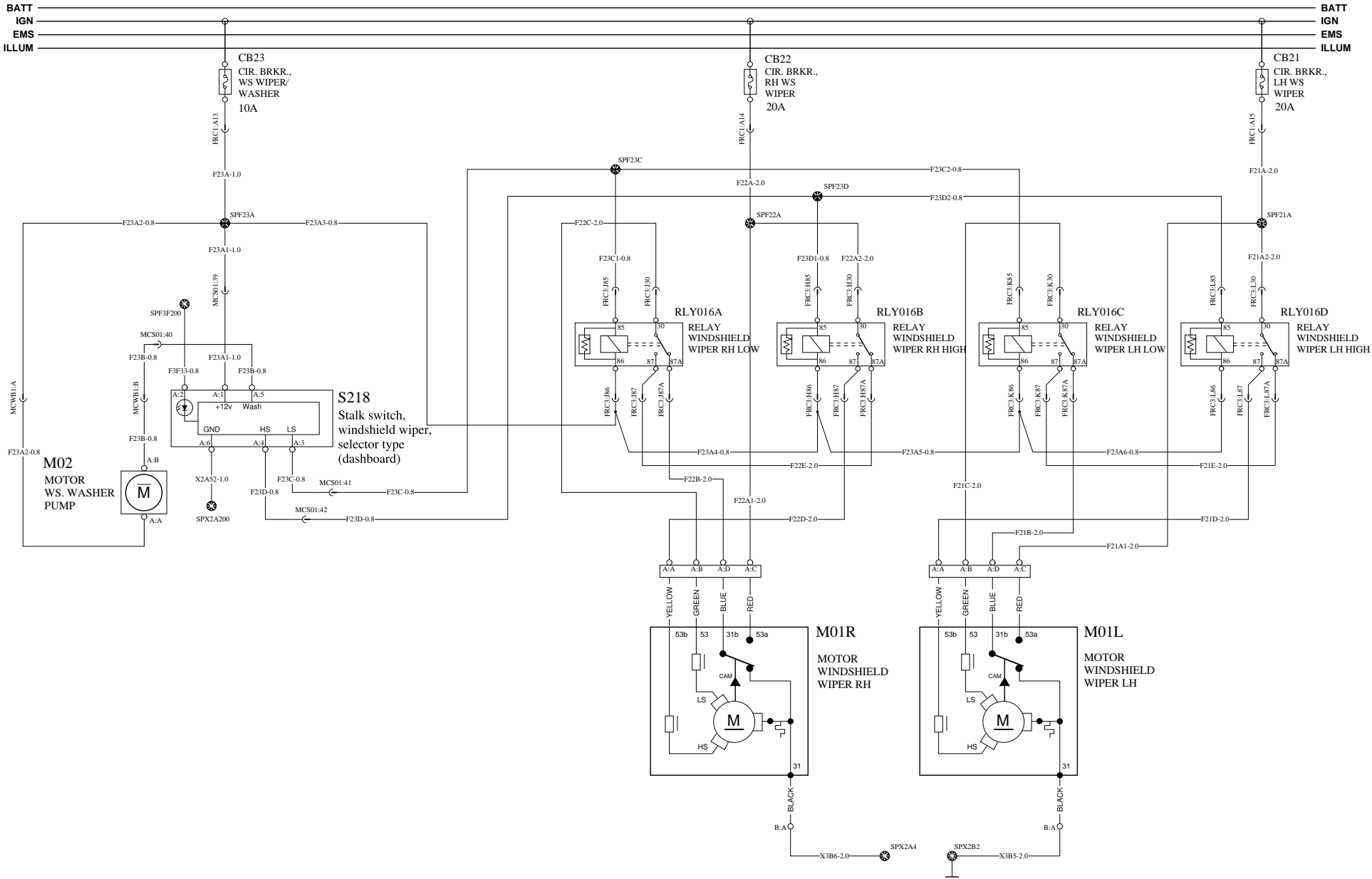
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WINDSHIELD WASHER

WIRING DIAGRAM: GP



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PRODUCT SCHEMATIC

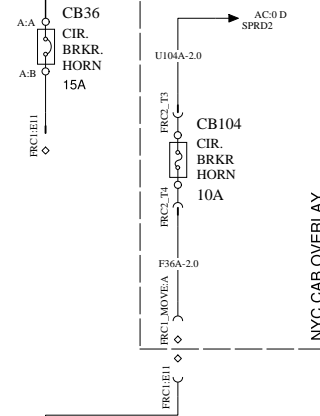
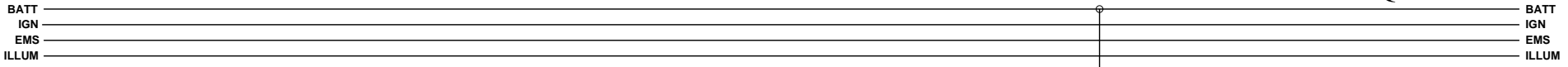
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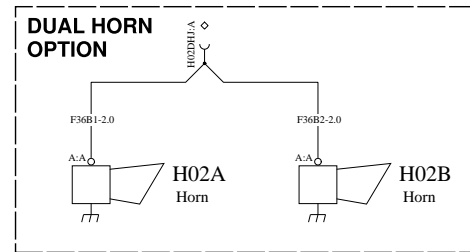
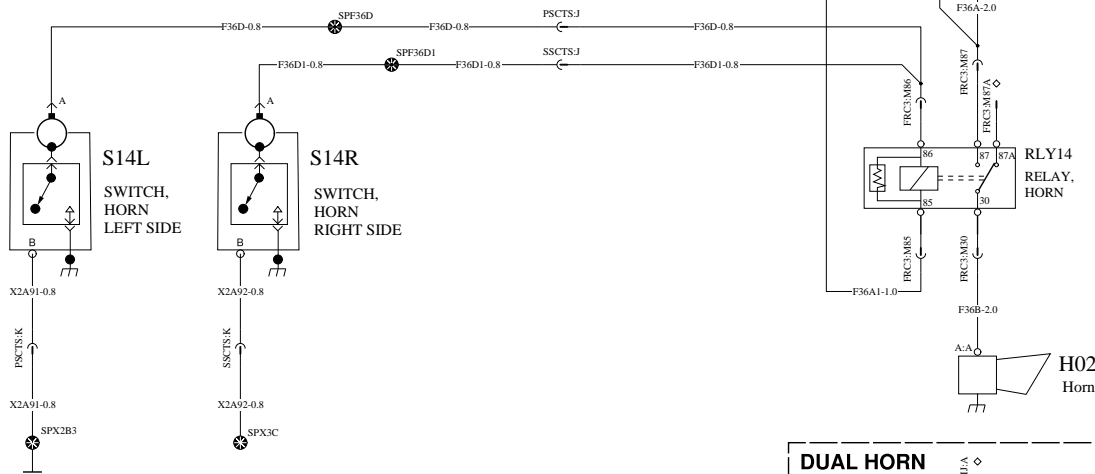
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HORN WIRING

WIRING DIAGRAM: GQ-NYC



WIRE F36A IS TO BE REMOVED FROM FRC1 OF THE MAIN CAB HARNESS. THE WIRE IS TO HAVE THE TERMINAL CUT OFF AND THEN HAVE TERMINAL 25106697 CRIMPED ON TO THE WIRE & BE INSERTED INTO CAVITY A OF CONNECTOR FRC1_MOVE (SOCKET CONNECTOR) OF THE NYC CAB OVERLAY HARNESS. FRC2_T3 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO FRC2 OF THE MAIN CAB HARNESS CAVITY T3. FRC2_T4 OF THE NYC CAB OVERLAY IS TO BE INSERTED INTO FRC2 OF THE MAIN CAB HARNESS CAVITY T4.



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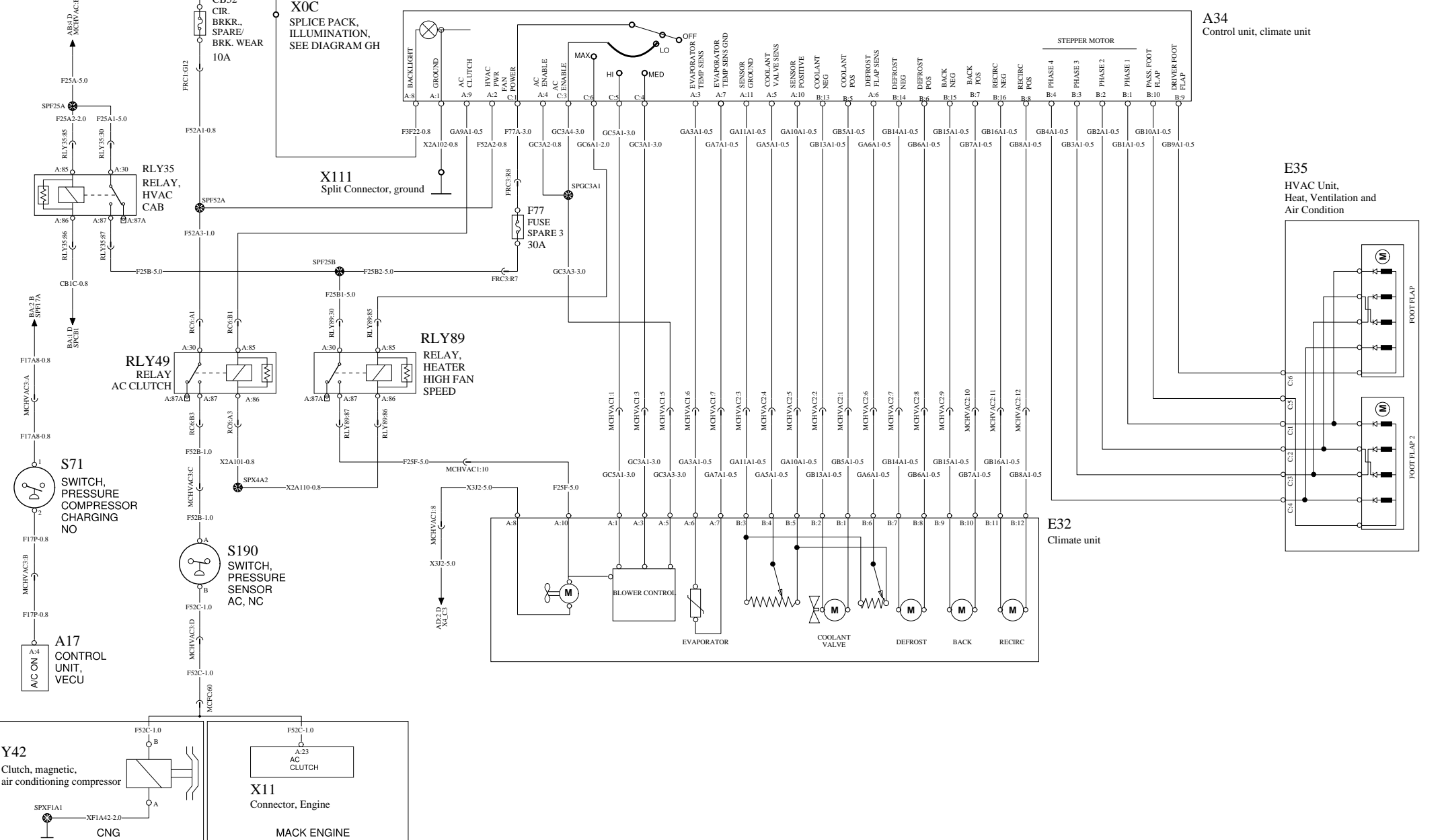
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CLIMATE CONTROL

WIRING DIAGRAM: HA-NYC

BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM



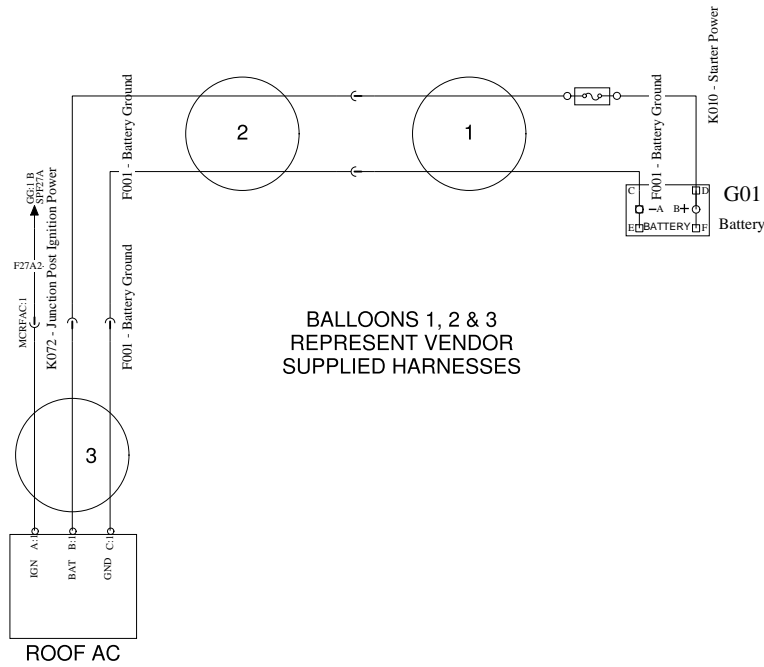
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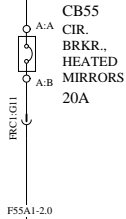
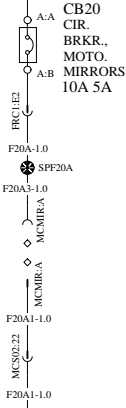
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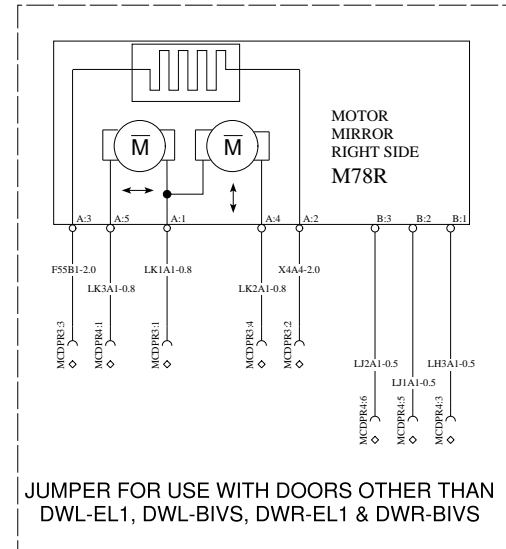
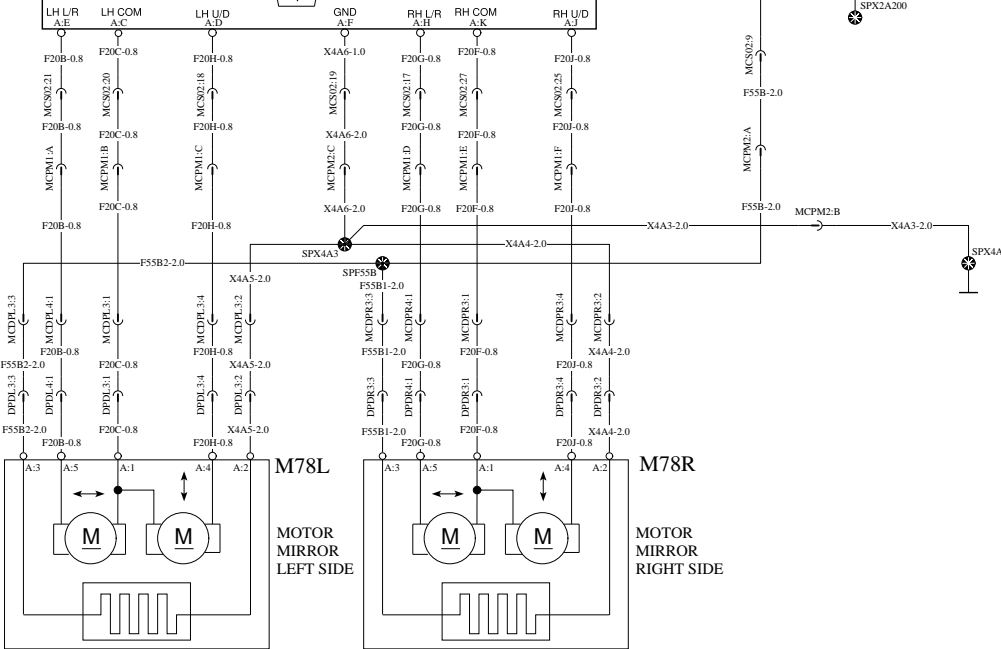
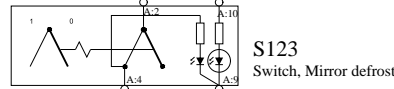
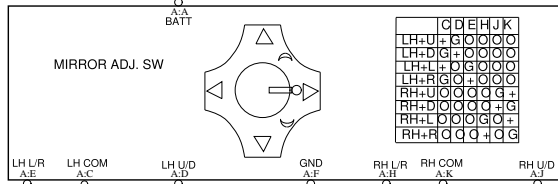
MIRRORS - DUAL REMOTE

WIRING DIAGRAM: IC

BATT
IGN
EMS
ILLUM



S103
Switch, heated mirror,
mirror adjustment



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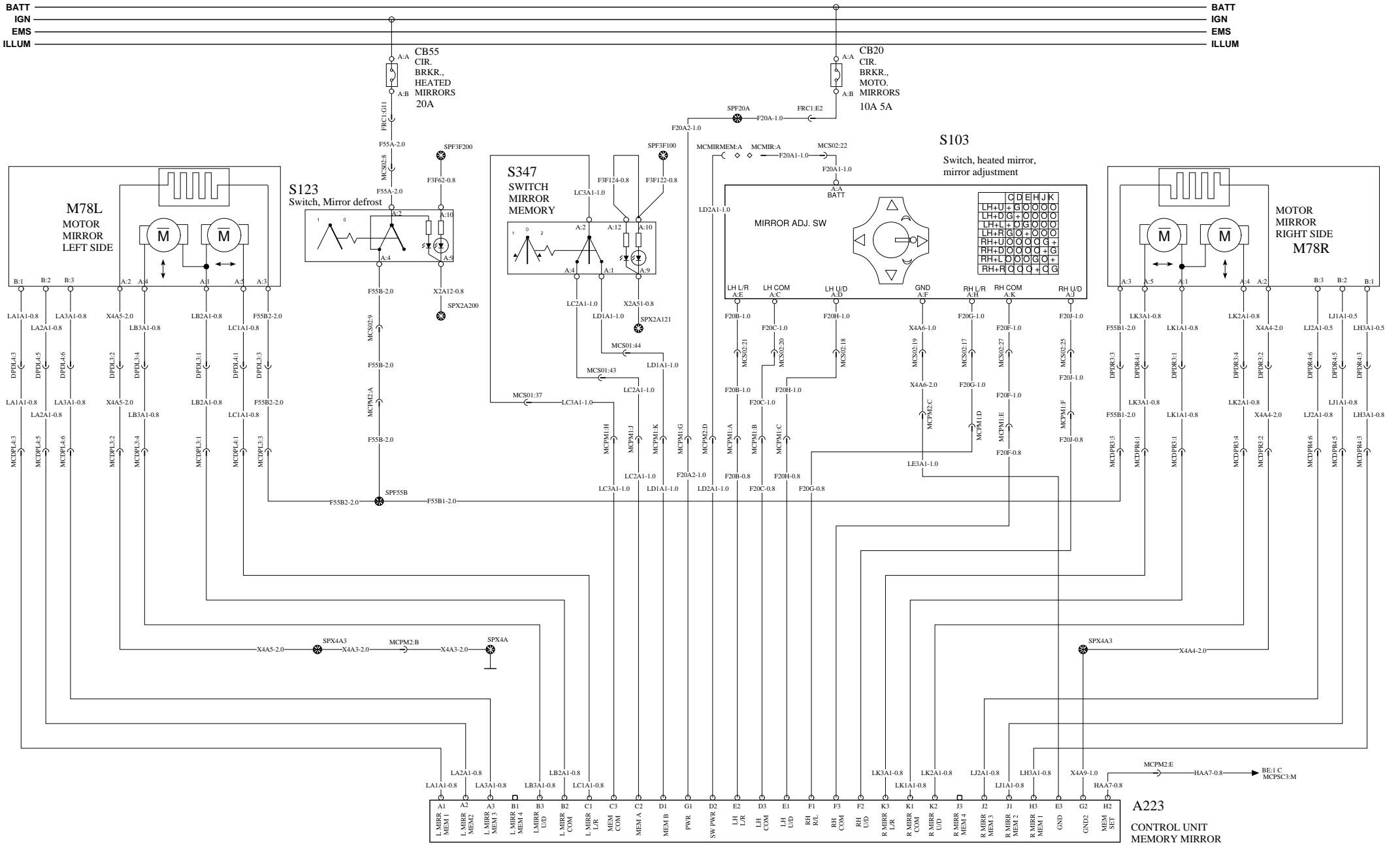
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MIRRORS - DUAL REMOTE MEMORY

WIRING DIAGRAM: ID



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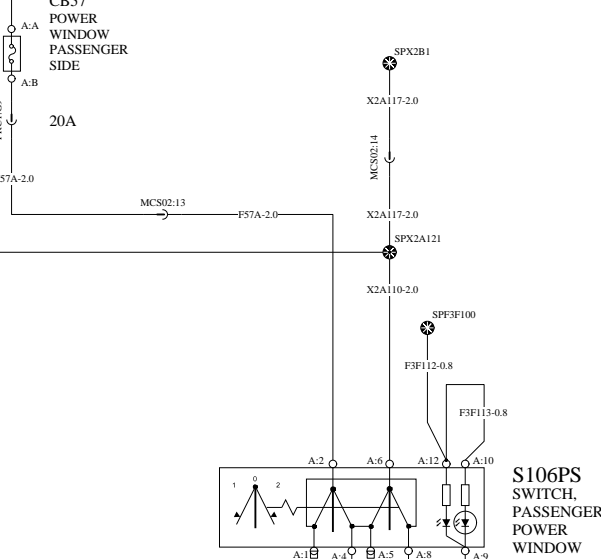
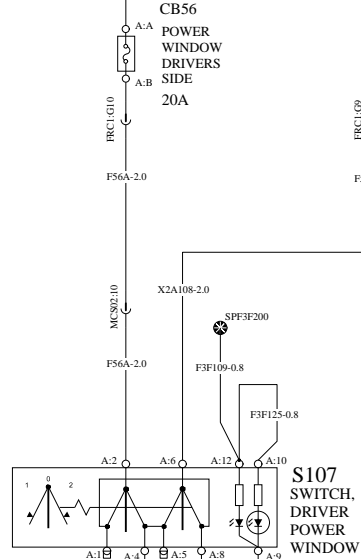
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POWER WINDOWS

WIRING DIAGRAM: IE

BATT
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EMS
ILLUM

BATT
IGN
EMS
ILLUM



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Document title
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Document type
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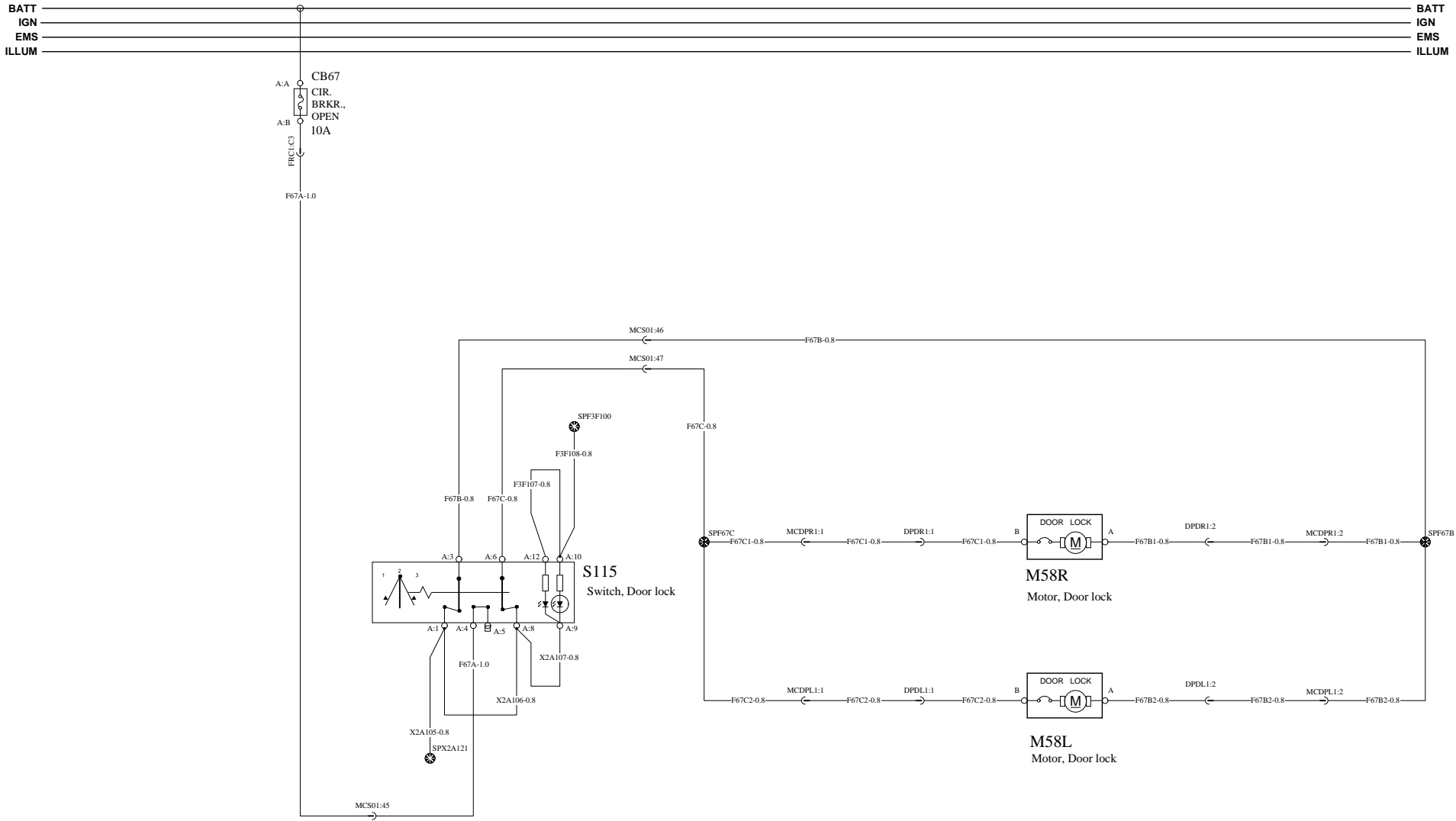
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POWER DOOR LOCKS

WIRING DIAGRAM: IF



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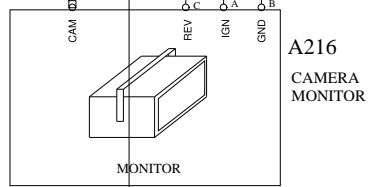
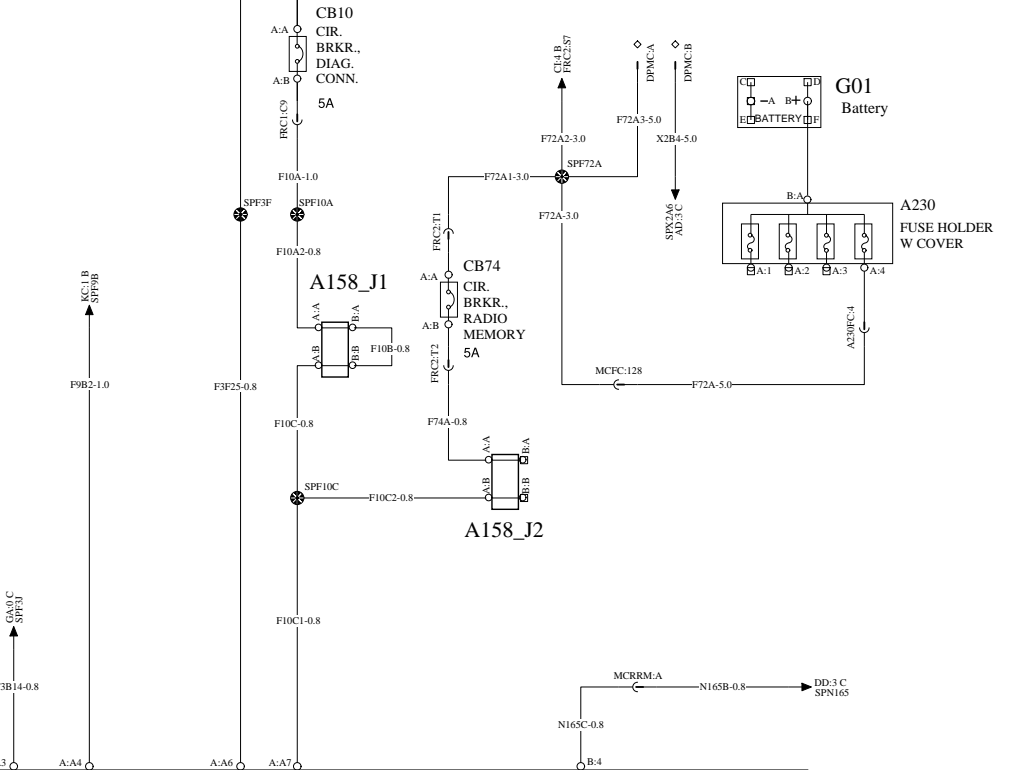
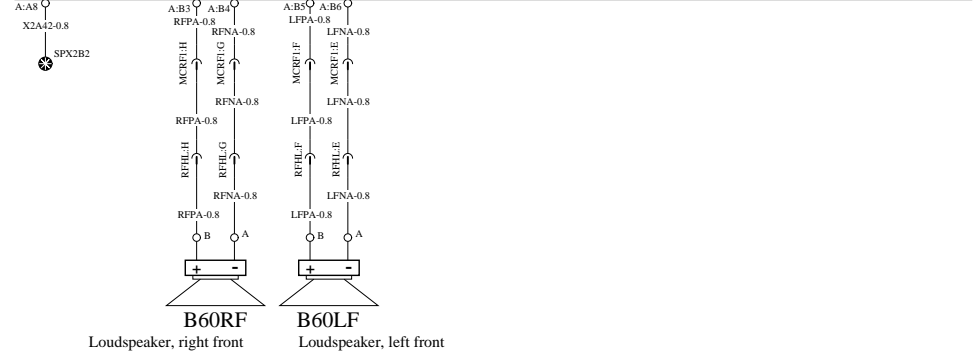
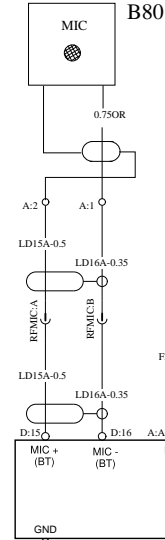
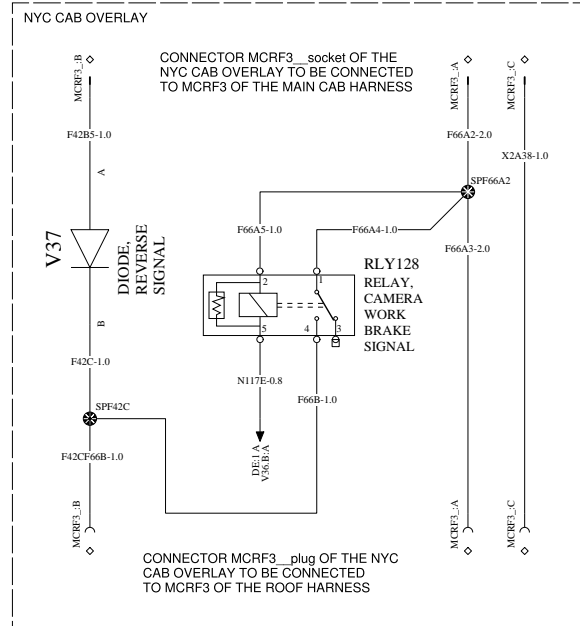
55 (68)

AUDIO & VISUAL SYSTEMS

WIRING DIAGRAM: KA

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



MACK

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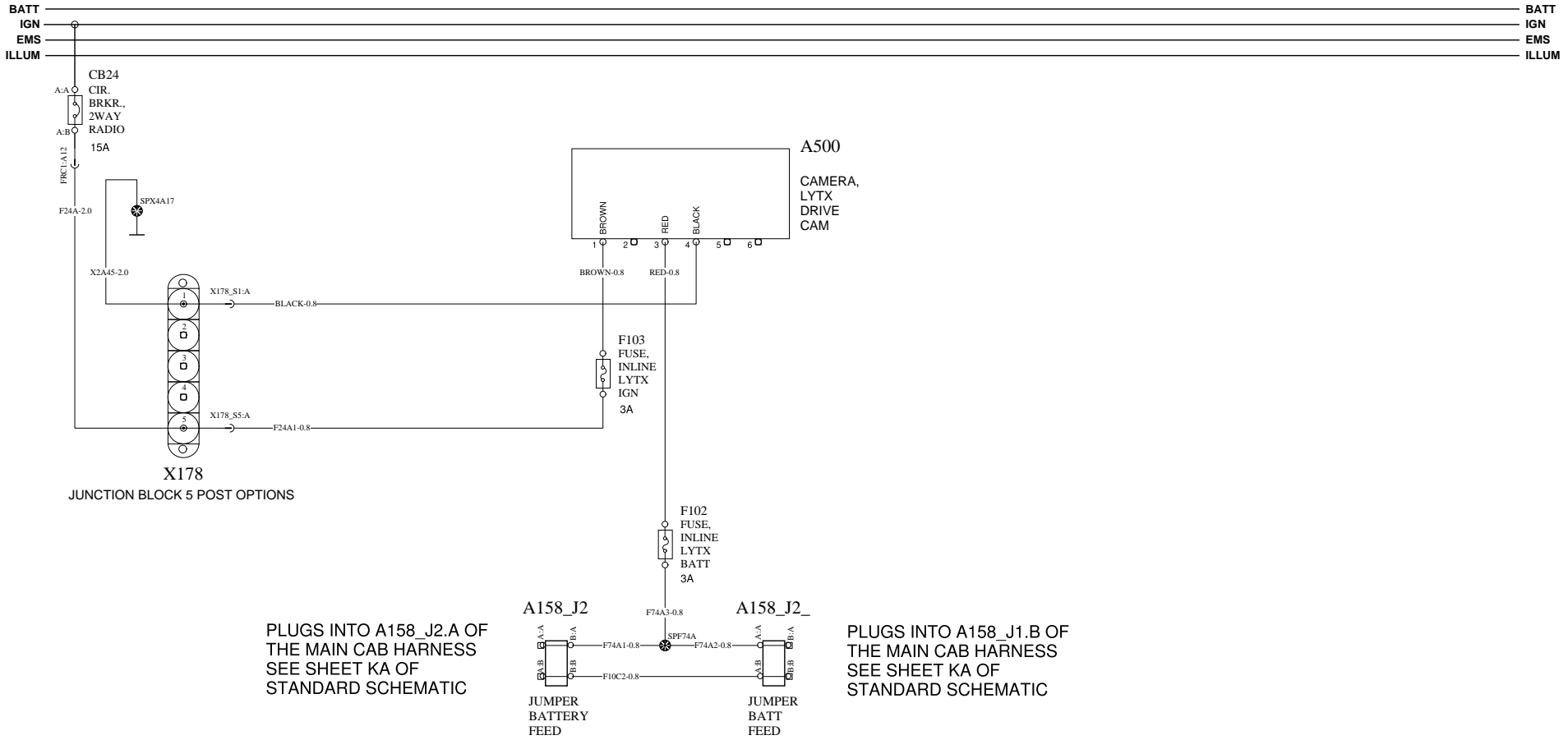
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LYTX DRIVE CAM PREP KIT (1PA-BBX)

WIRING DIAGRAM: KB



MACK

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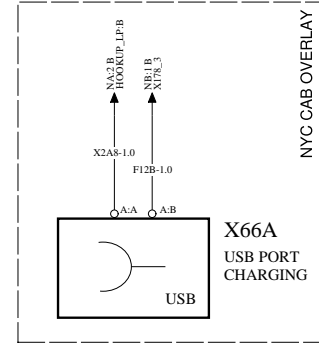
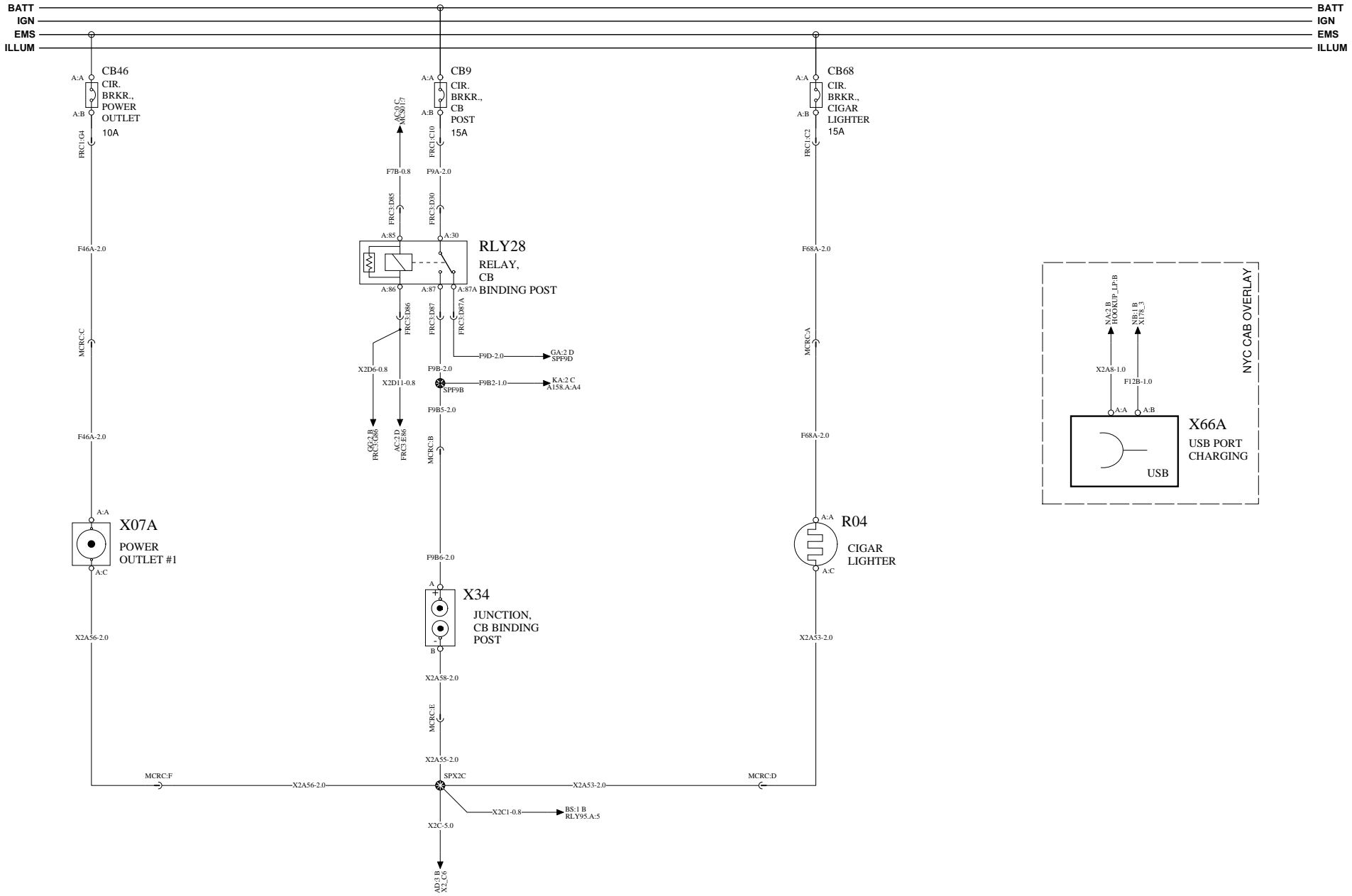
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POWER OUTLET CONNECTIONS

WIRING DIAGRAM: KC



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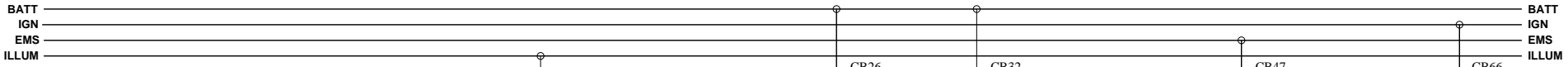
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SPARE CONNECTIONS & FEEDS

WIRING DIAGRAM: NA-NYC



A

A

B

B

C

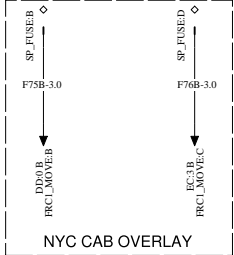
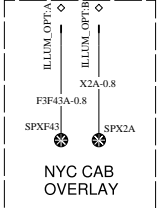
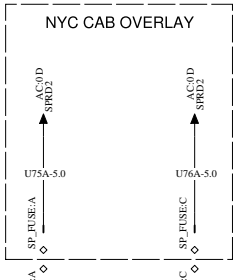
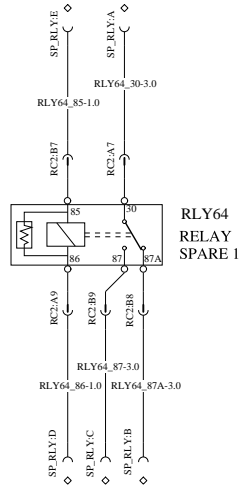
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D

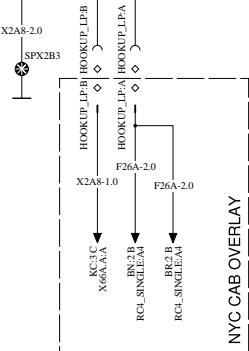
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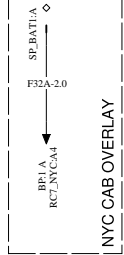
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OPTIONAL HOOK-UP LAMPS,
OR SPARE BATTERY

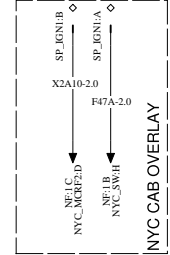


NYC CAB OVERLAY

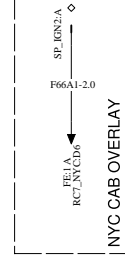


NYC CAB OVERLAY

OPTIONAL TRANS. OR
AUX. FAN



NYC CAB OVERLAY



NYC CAB OVERLAY

W/O CAMERA &/OR
BB INDICATOR,
SPARE IGNITION

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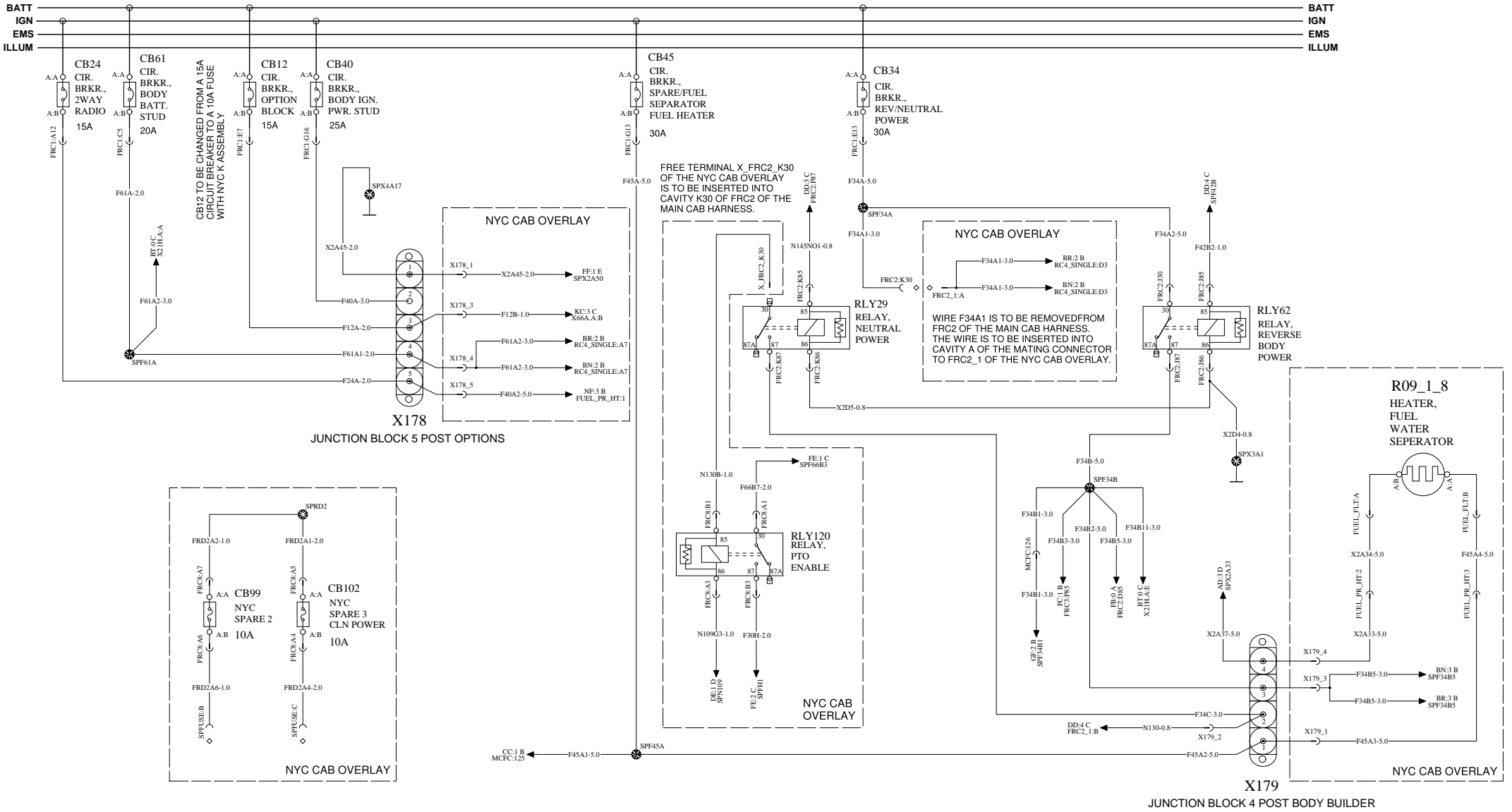
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3

4

JUNCTION POSTS

WIRING DIAGRAM: NB-NYC



NYC SINGLE BIN BB

WIRING DIAGRAM: NE-NYC

BATT
IGN
EMS
ILLUM

A

B

C

D

E

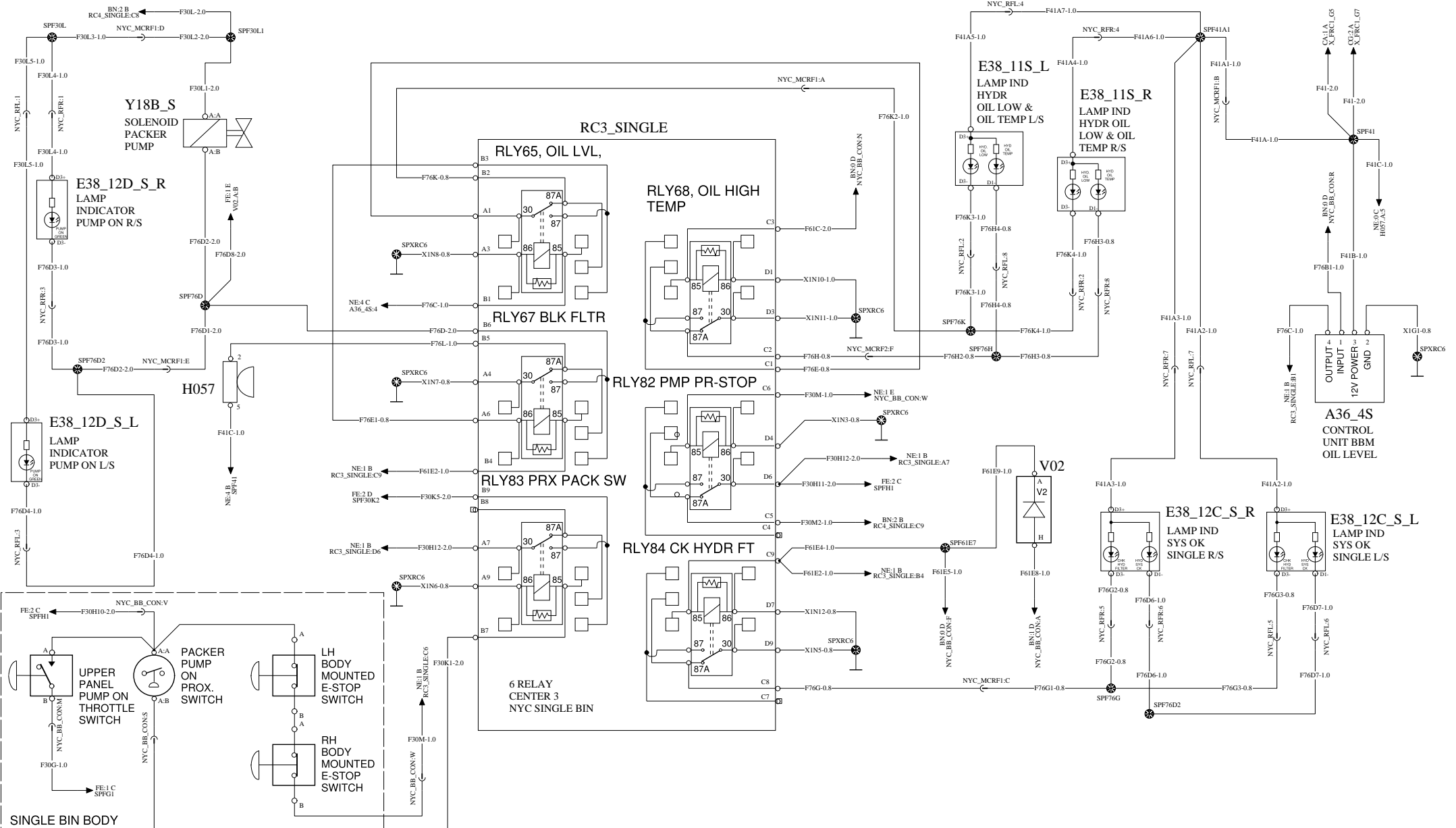
A

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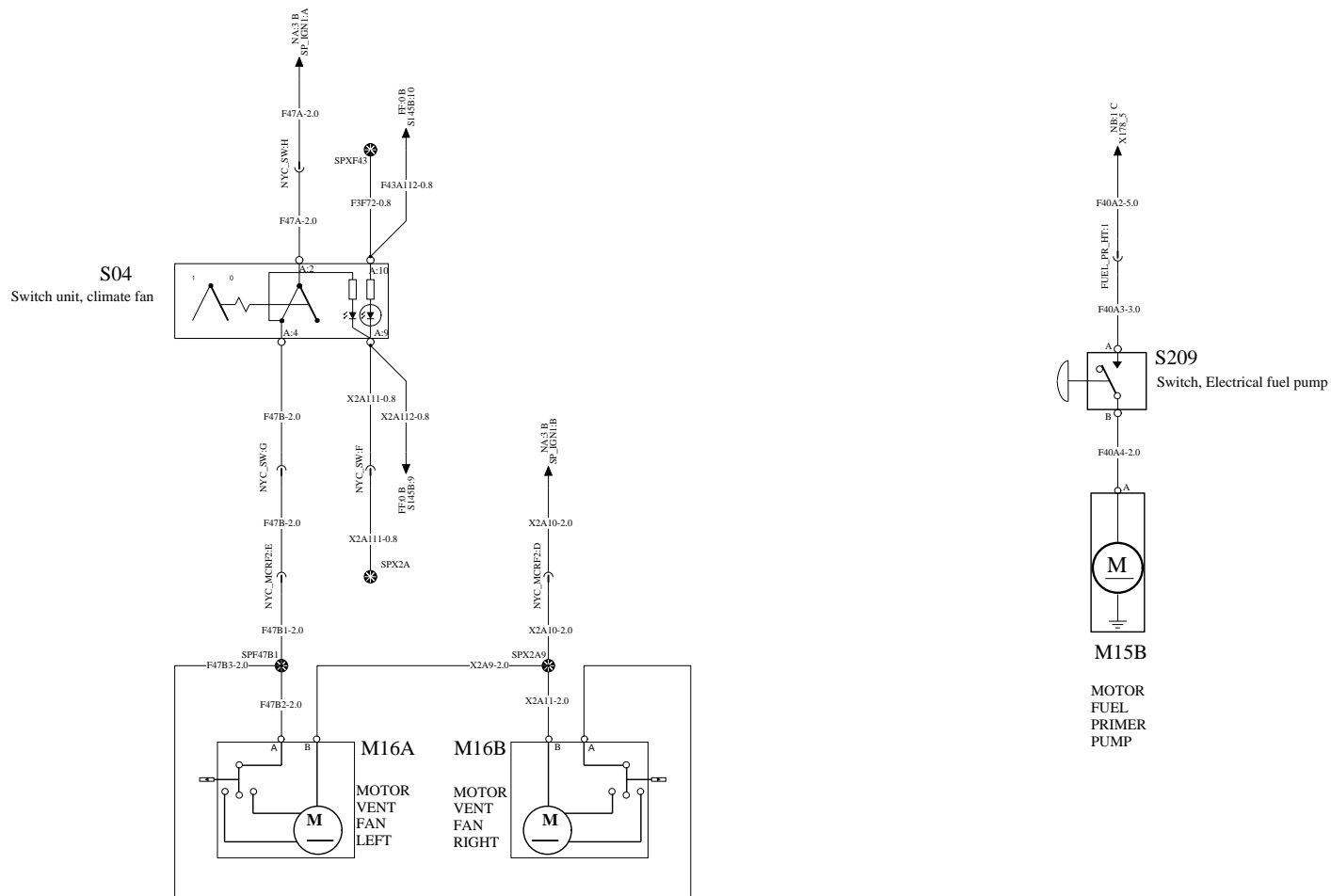
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NYC SINGLE BIN ELECTRIC FUEL PRIMER PUMP & VENT FANS

WIRING DIAGRAM: NF-NYC

BATT _____ BATT
 IGN _____ IGN
 EMS _____ EMS
 ILLUM _____ ILLUM



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NYC DUAL BIN BB

WIRING DIAGRAM: NG-NYC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

A

A

B

B

C

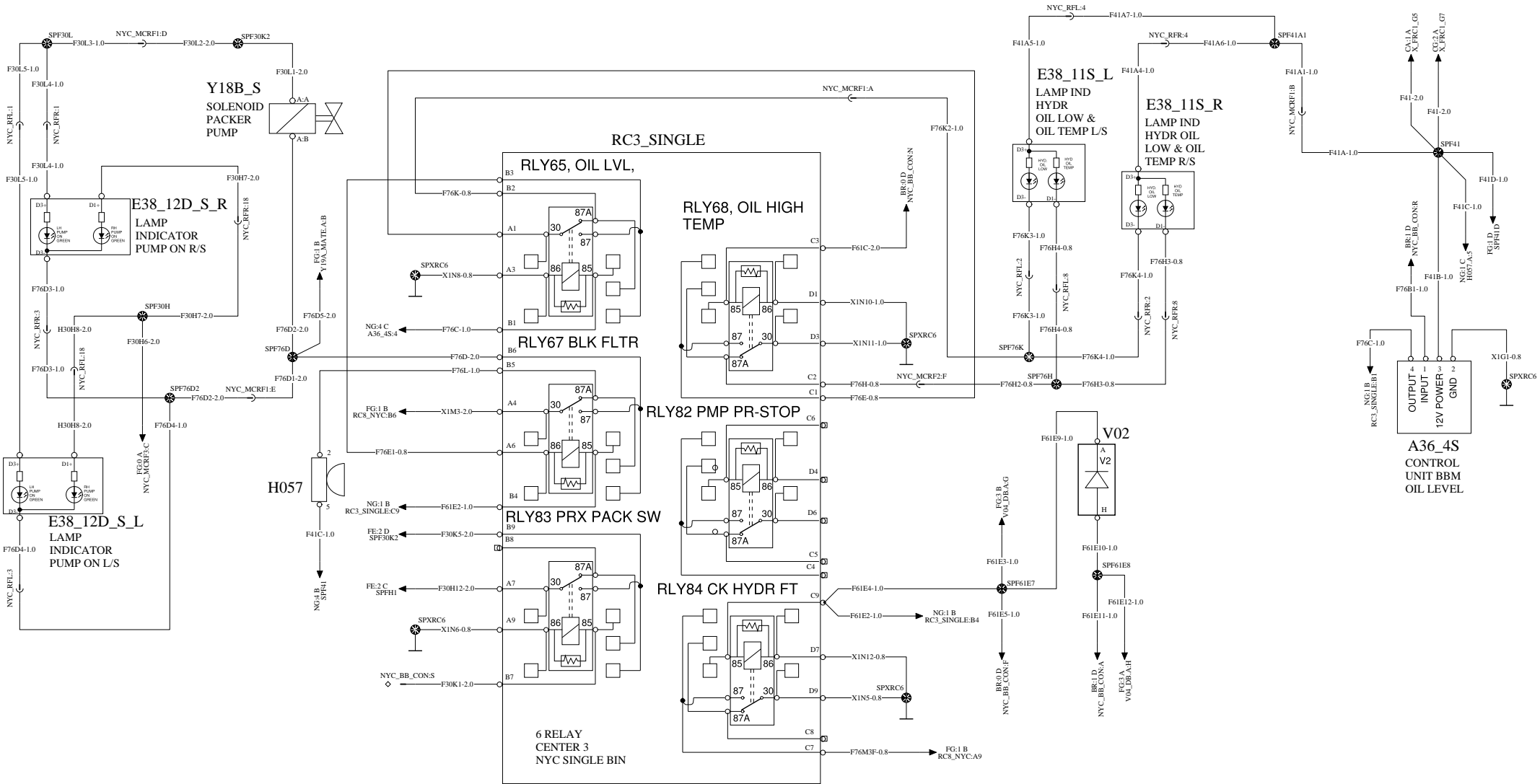
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D

E

E



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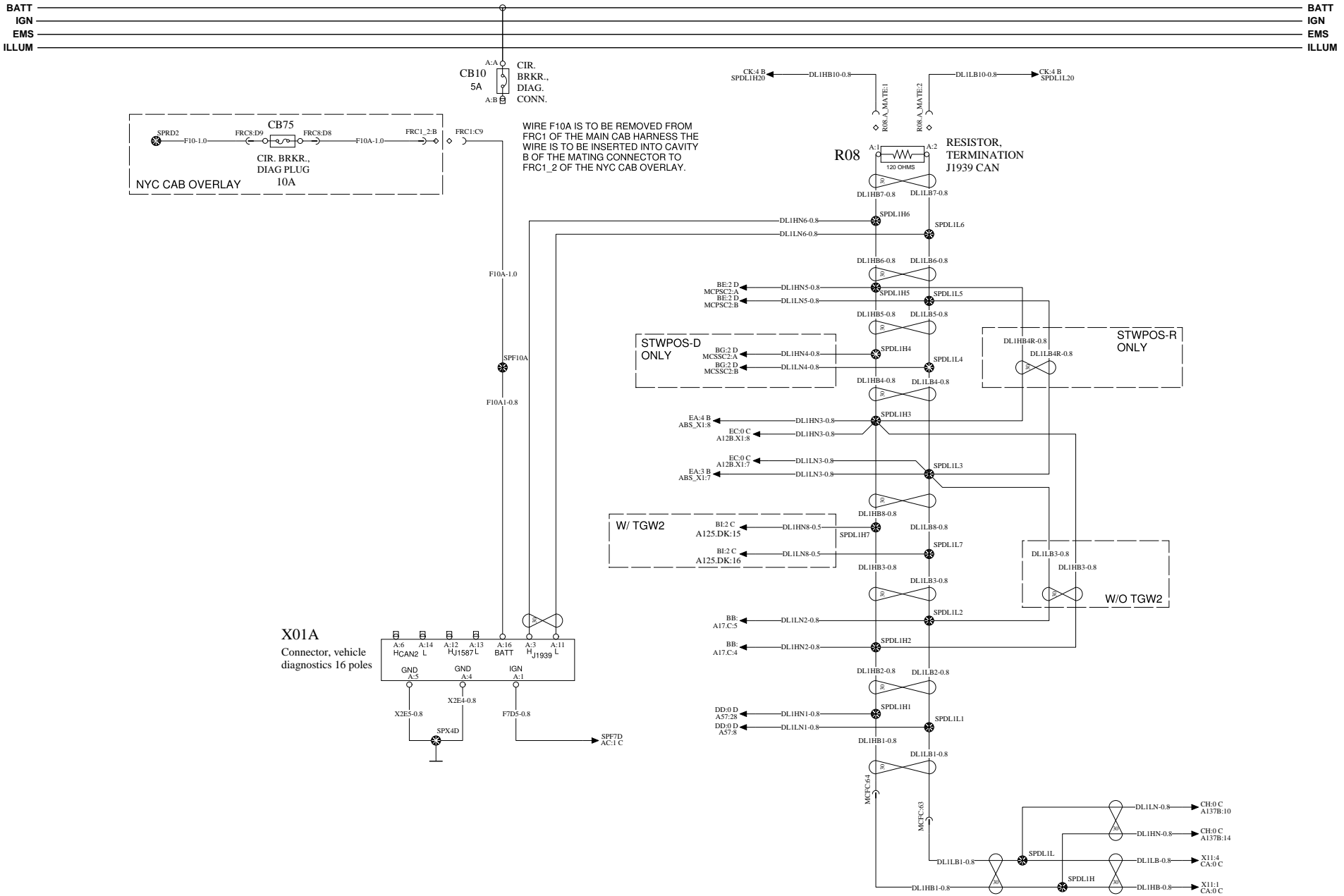
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OBID - DATALINK 1 & DIAGNOSTICS - MACK ENGINE

WIRING DIAGRAM: XA-NYC



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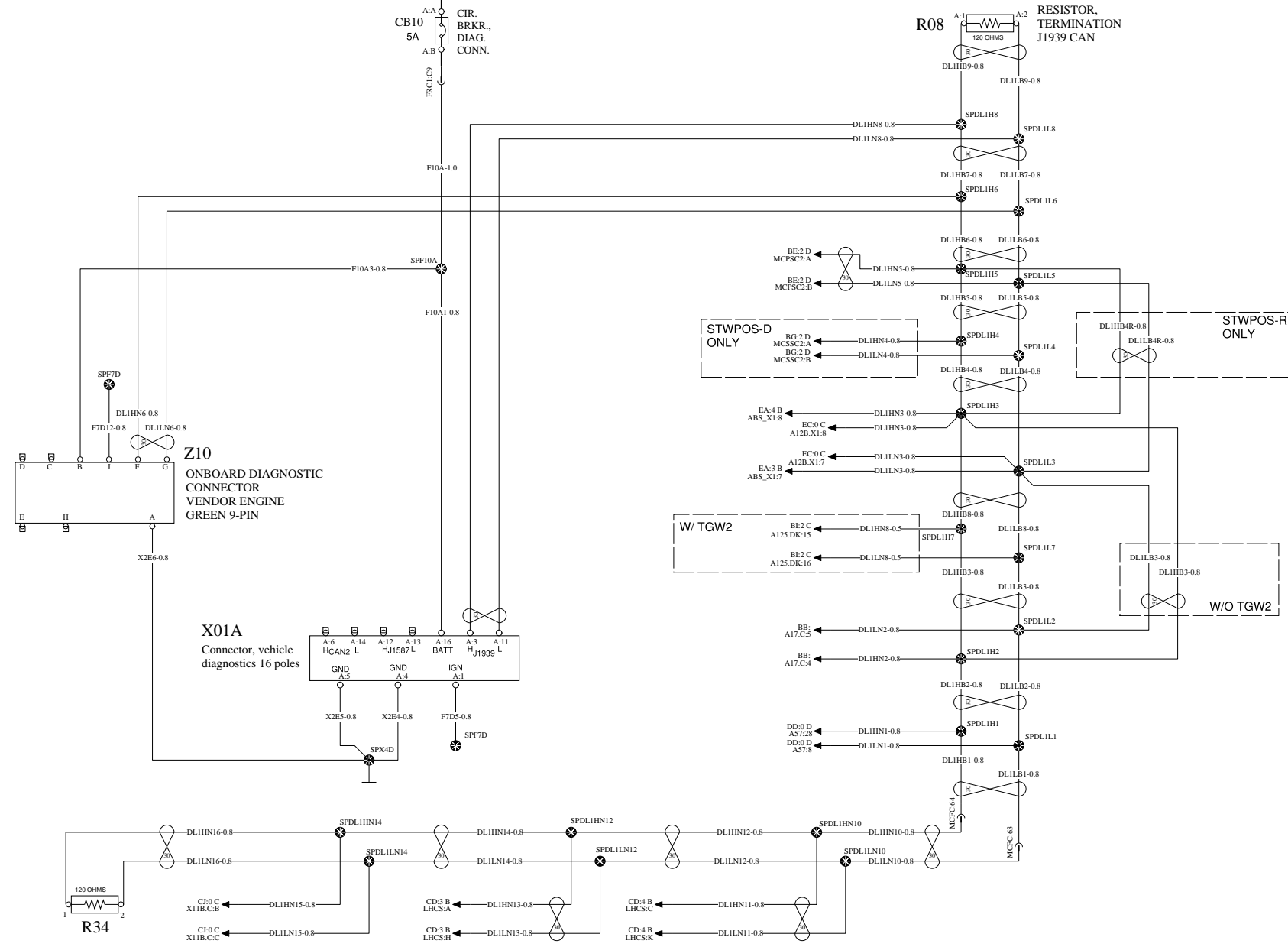
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OBD - DATALINK 1 & DIAGNOSTICS - 2018 CNG

WIRING DIAGRAM: XB

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM



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OBD - DATALINK 2

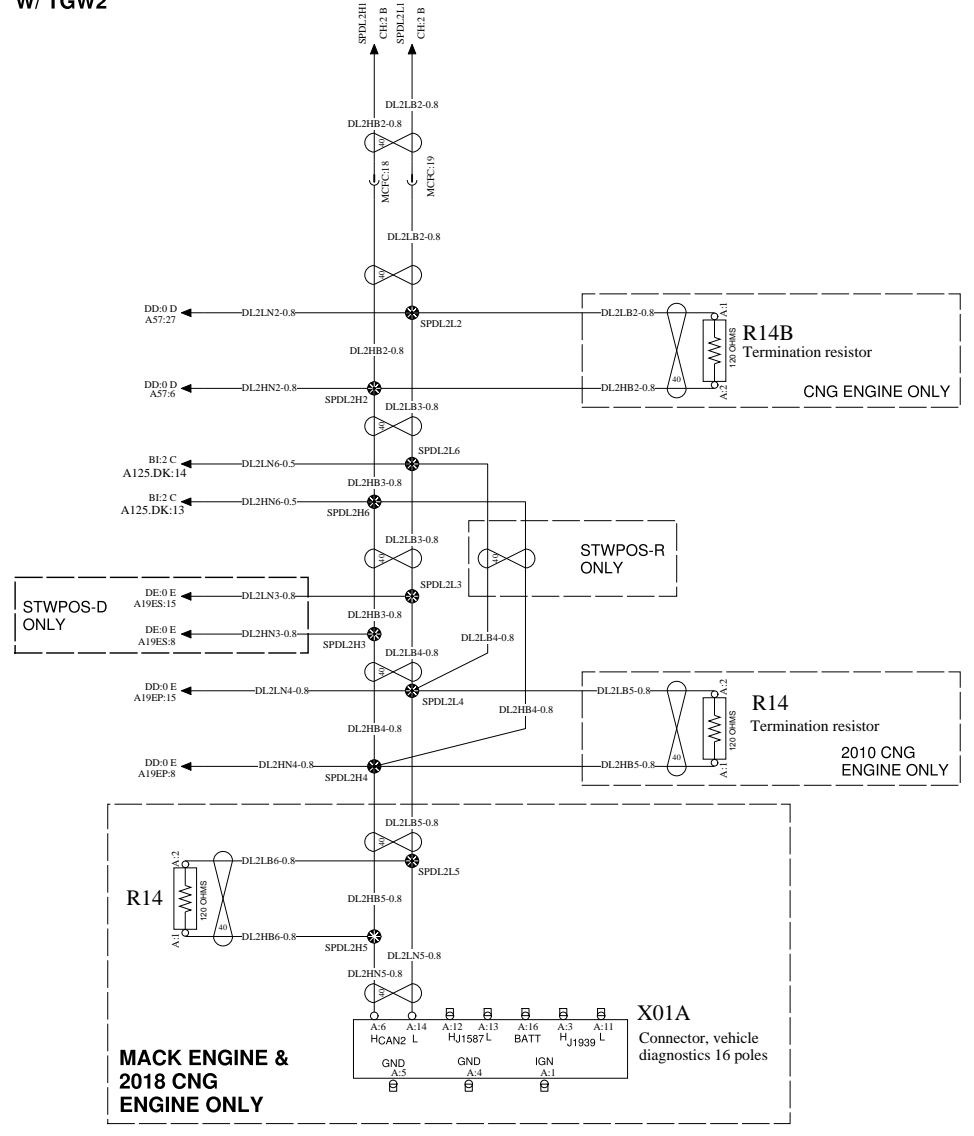
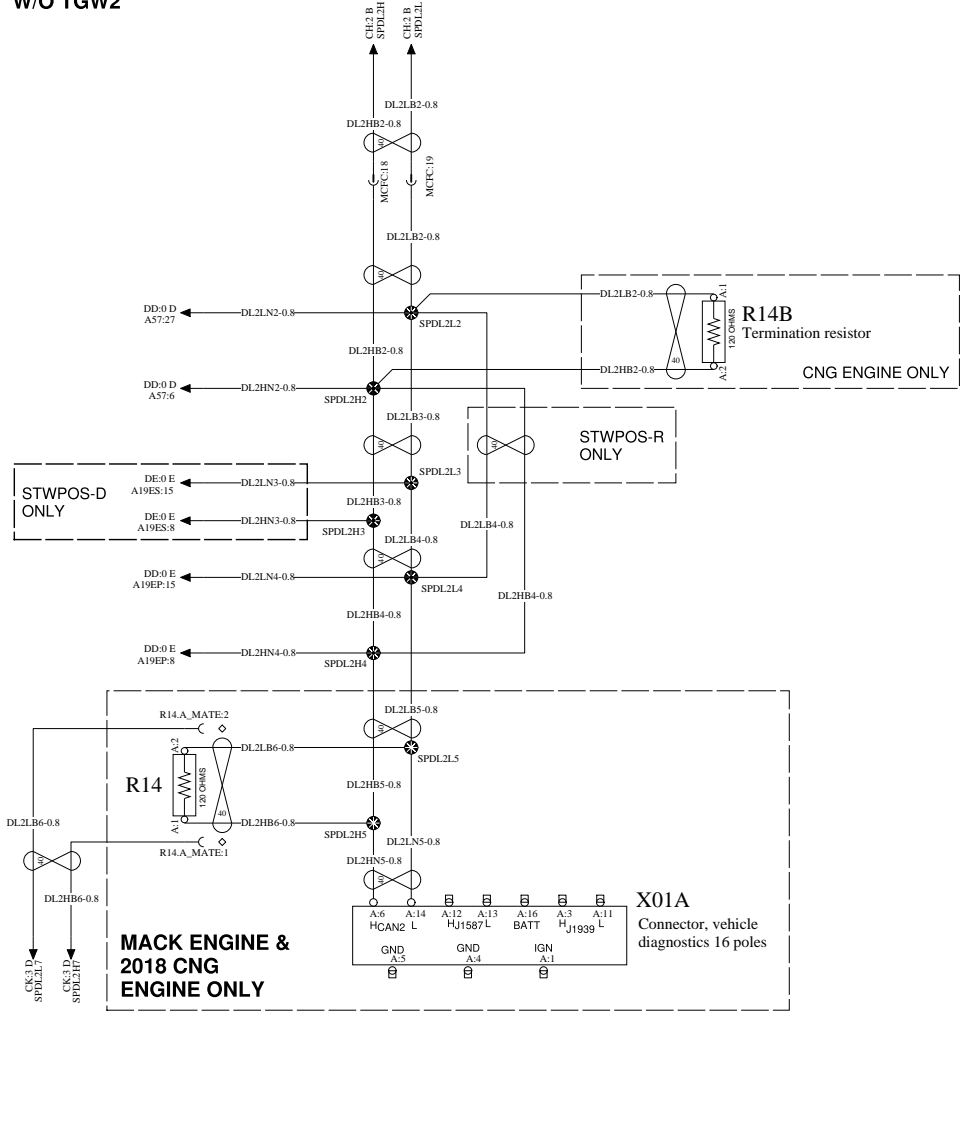
WIRING DIAGRAM: XC

BATT
IGN
EMS
ILLUM

BATT
IGN
EMS
ILLUM

W/O TGW2

W/ TGW2



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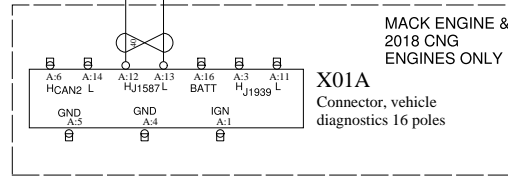
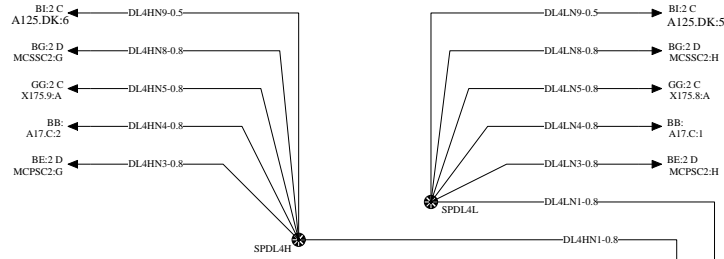
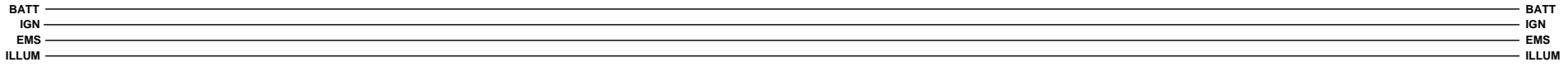
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OBD - DATALINK 4

WIRING DIAGRAM: XD



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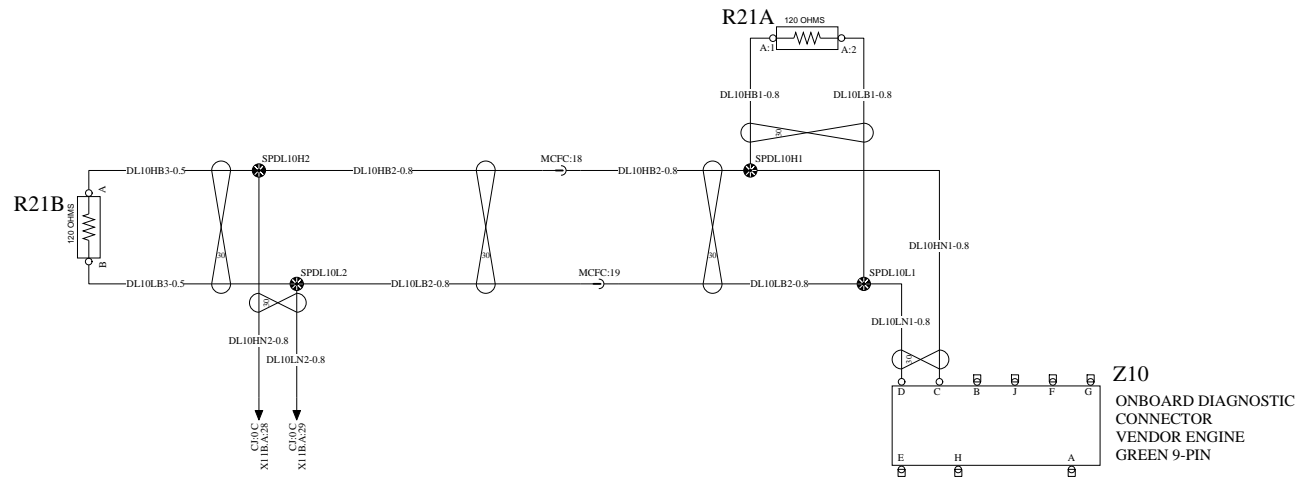
1

2

3

4

BATT _____ BATT
 IGN _____ IGN
 EMS _____ EMS
 ILLUM _____ ILLUM



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