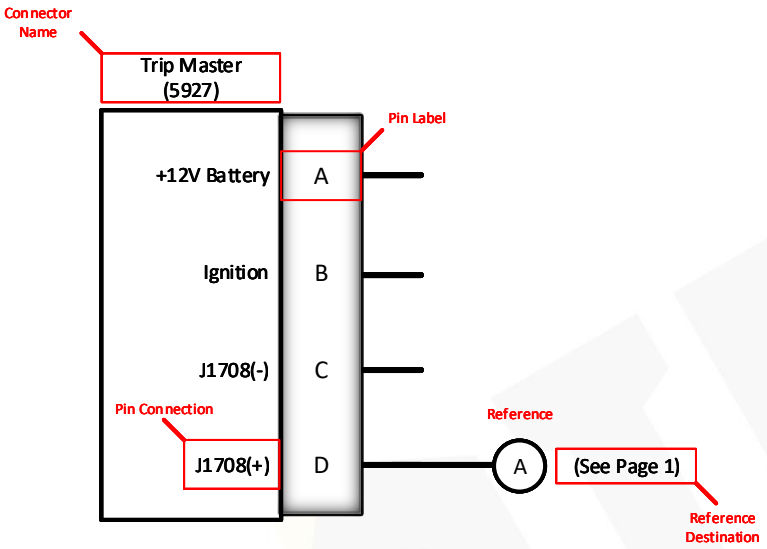
MACK

LEU (US10)

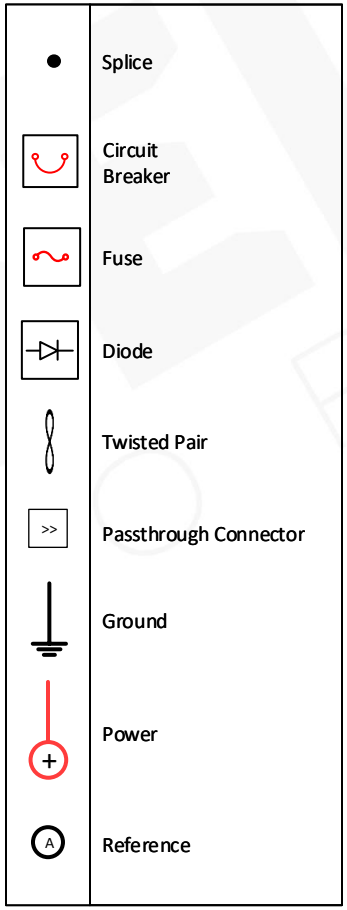
(2010)

Aftertreatment Wiring Schematics

How to Read This Diagram

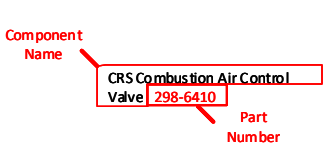


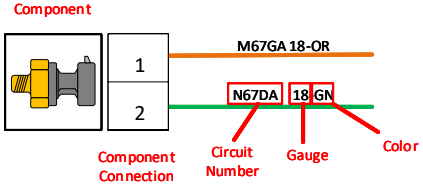
SYMBOLS



ABBREVIATION	COLOR
RD	RED
WH	WHITE
OR	ORANGE
YL/YE	YELLOW
PK	PINK
BK	BLACK
GY	GRAY
PU/VT	PURPLE
BR/BN	BROWN
GN	GREEN
BU/BL	BLUE

Capital Abbreviation's Represent Wire Main Color
Lower Case Abbreviation's Represent Secondary Color





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Section 2 : Connectors and Components (Continued..)	
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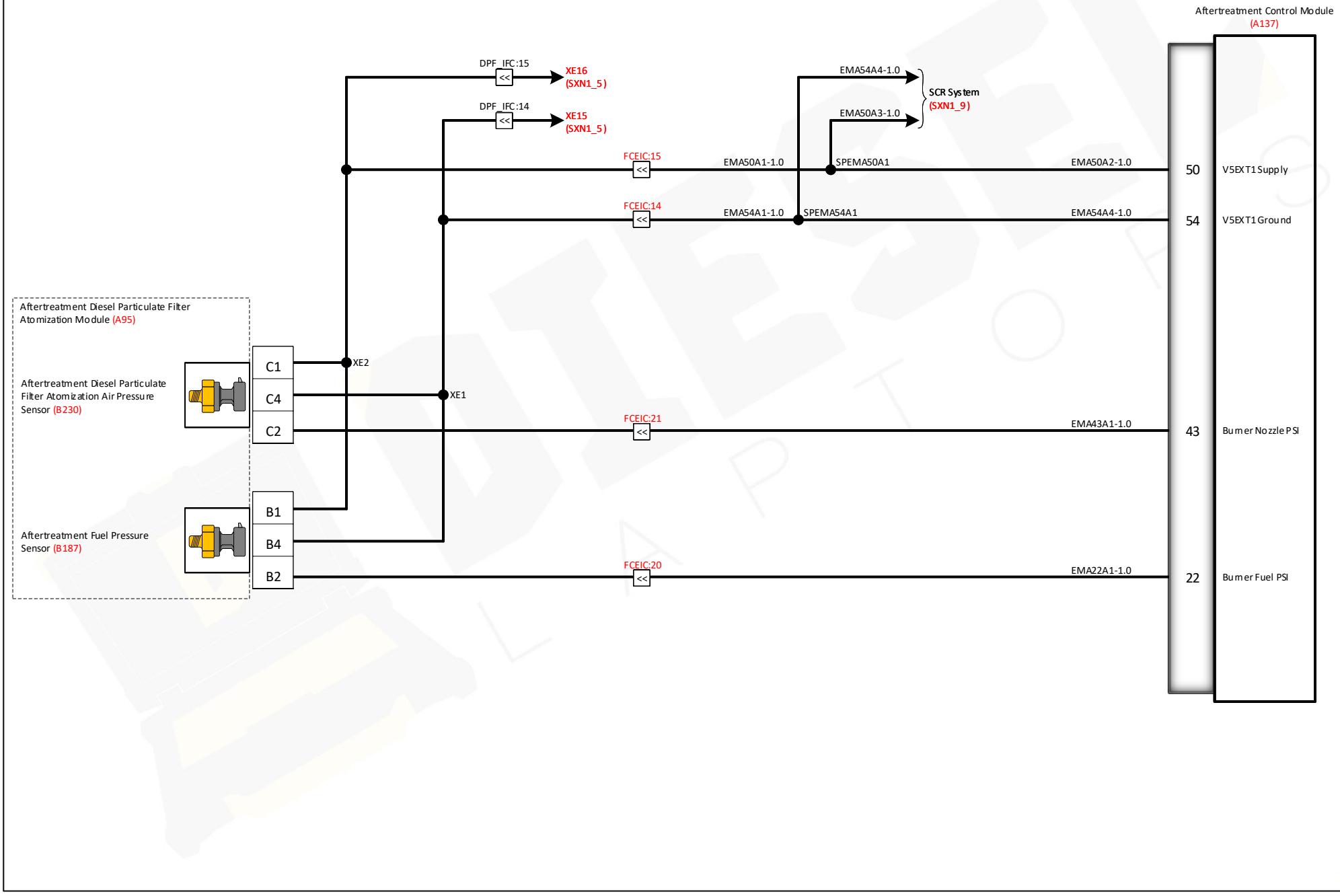
SXN2_13	B187 (AFT Fuel Pressure Sensor)
SXN2_14	R31 (AFT DEF Line Heater 1)
SXN2_15	R29 (AFT DEF Line Heater 3)
SXN2_16	Y76 (AFT DPF Ignition Coil)
SXN2_17	S111 (Aftertreatment DPF Regeneration Inhibit Switch)
SXN2_18	B211_B (DPF Temperature Assembly)
SXN2_19	Y81 (AFT DEF Tank Heater Valve)
SXN2_20	Y80 (AFT DEF Dosing Valve)
SXN2_21	X2_SP1 – X2A6 (Ground Splice Pack)
SXN2_22	B142B (AFT DEF Tank Level/Temperature Sensor)

DPF System: Aftertreatment Diesel Particulate Filter Atomization Module

Return To Table



DPF System: Aftertreatment Diesel Particulate Filter Atomization Module, Aftertreatment Fuel Pump, Aftertreatment Fuel Shutoff Valve

SXN1_02

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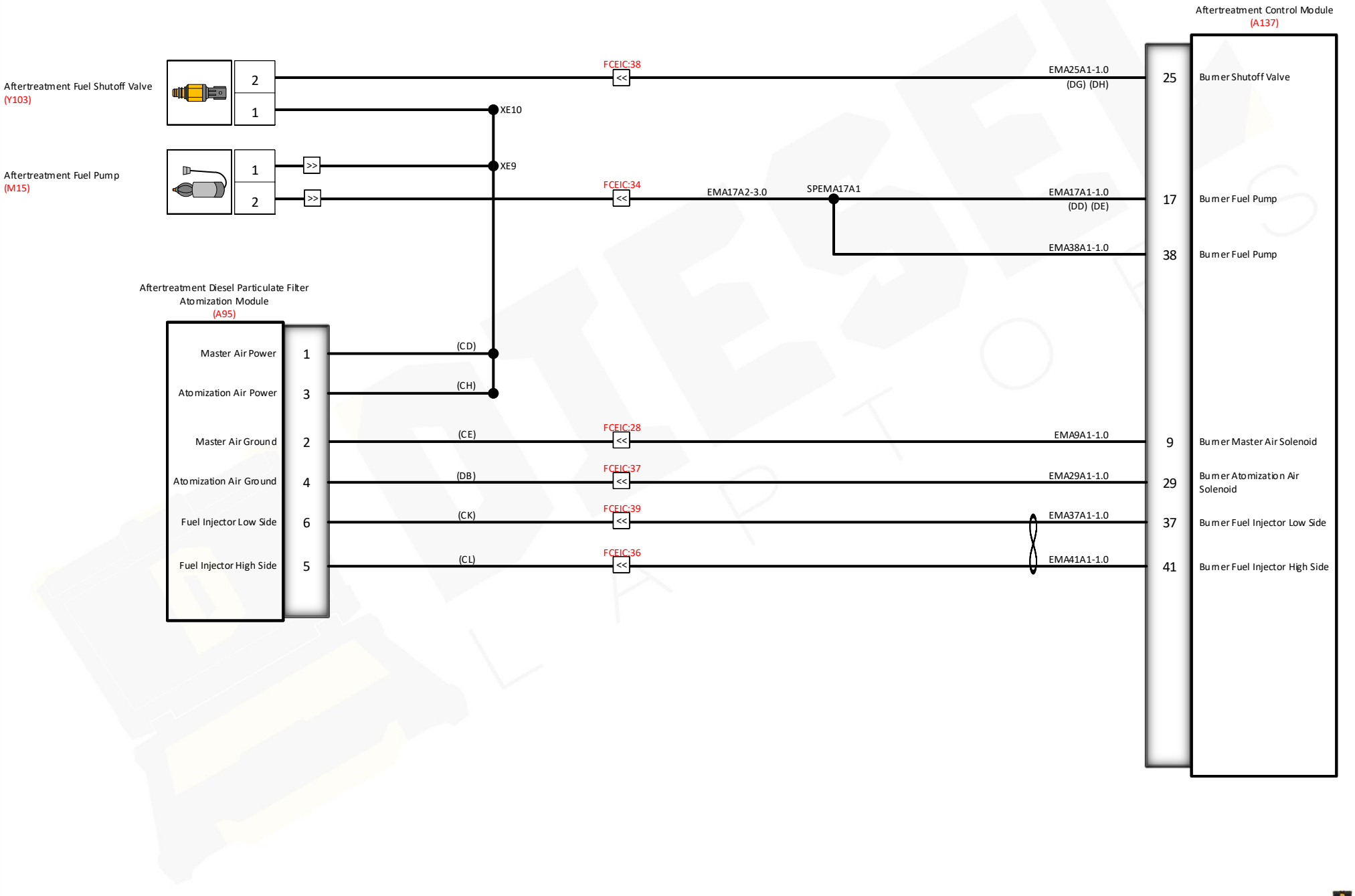

DPF System: Aftertreatment Diesel Particulate Filter Ignition Coil, Engine Turbocharger Compressor Bypass Actuator

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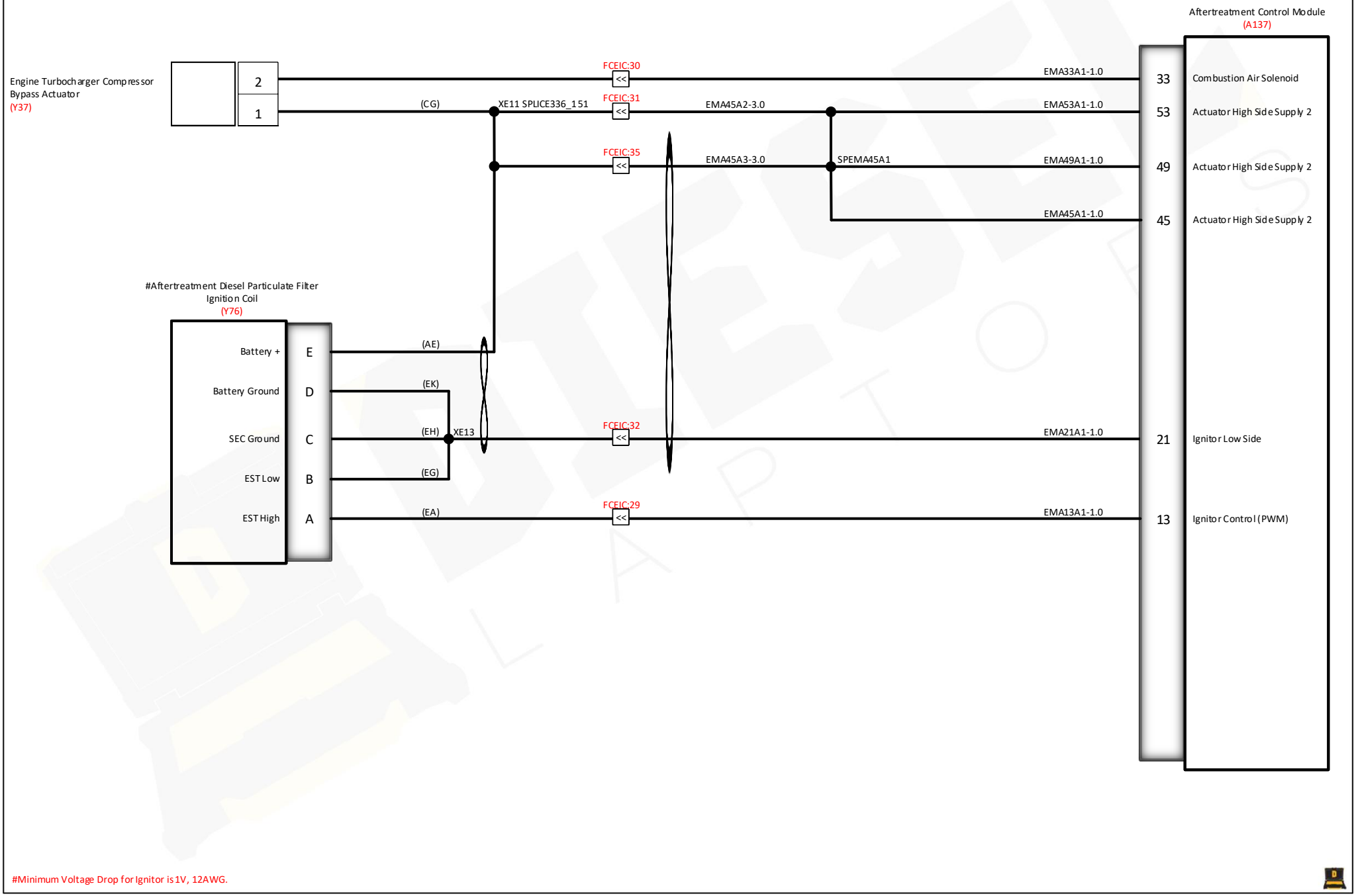

#Minimum Voltage Drop for Ignitor is 1V, 12AWG.

DPF System: Data Lines & Aftertreatment Diesel Particulate Filter Regeneration Inhibit Switch

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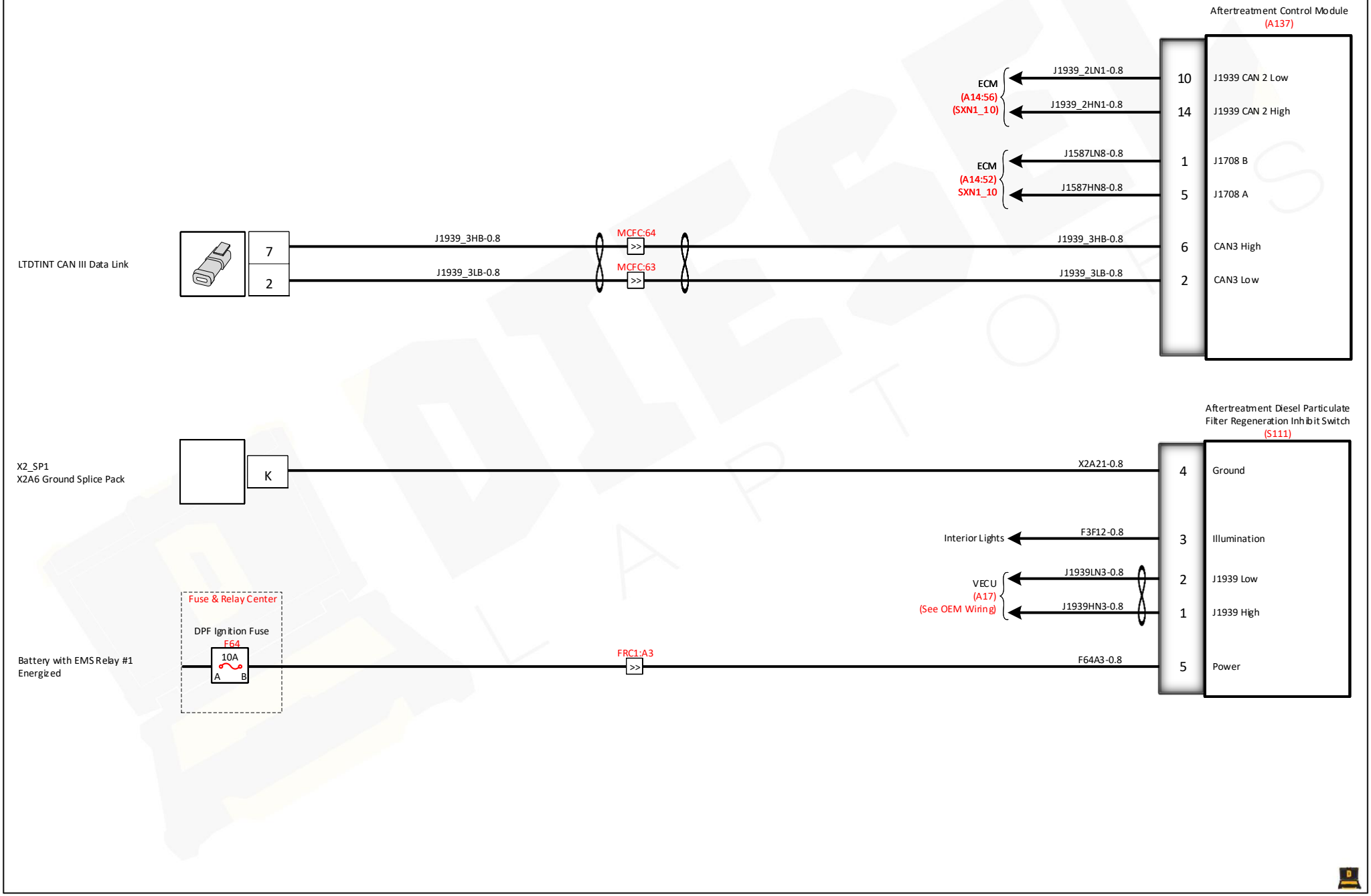

DPF System: DPF Temperature Sensor Assembly & Aftertreatment DPF Differential Pressure Seneor

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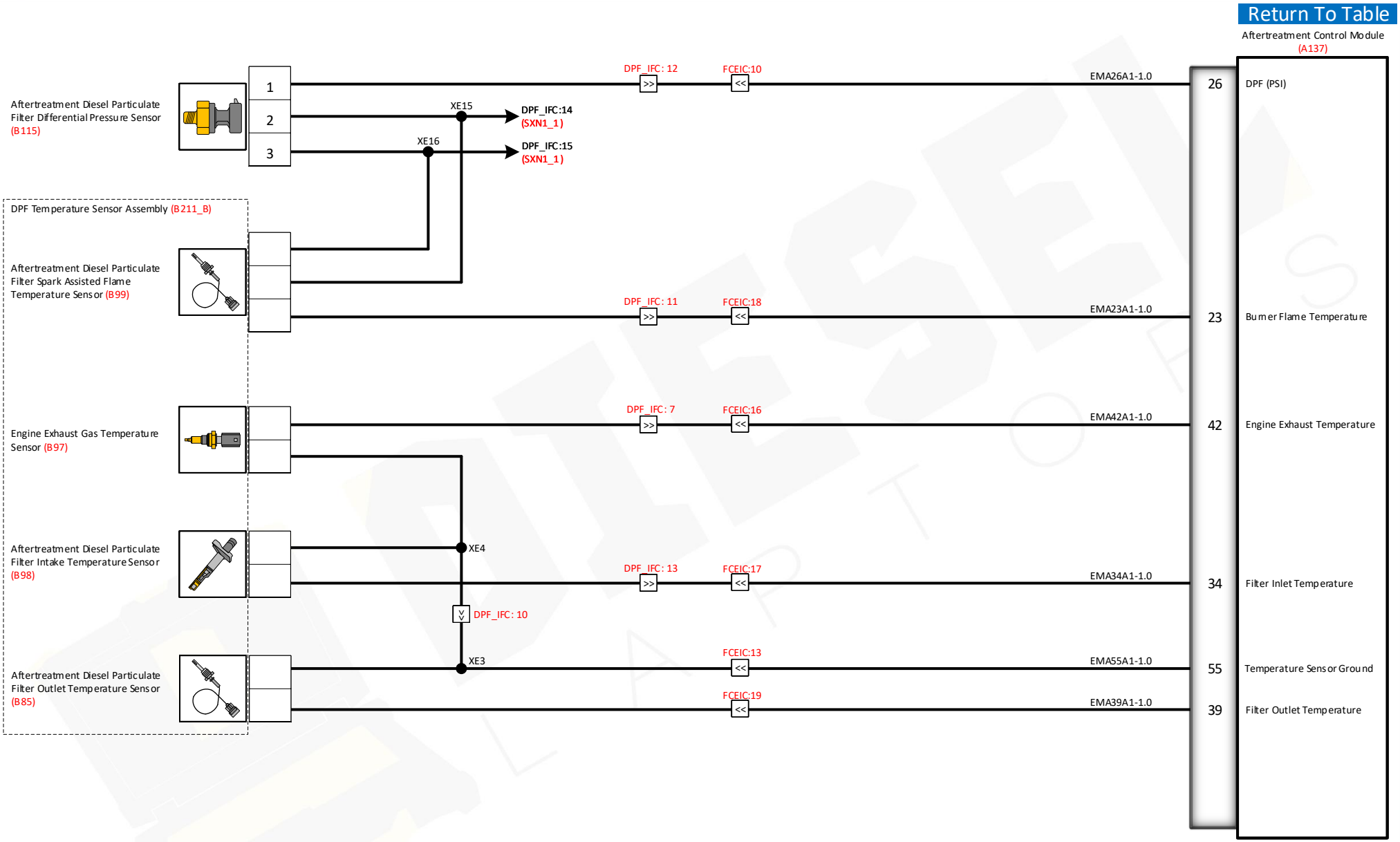

DPF System: Power & Ground

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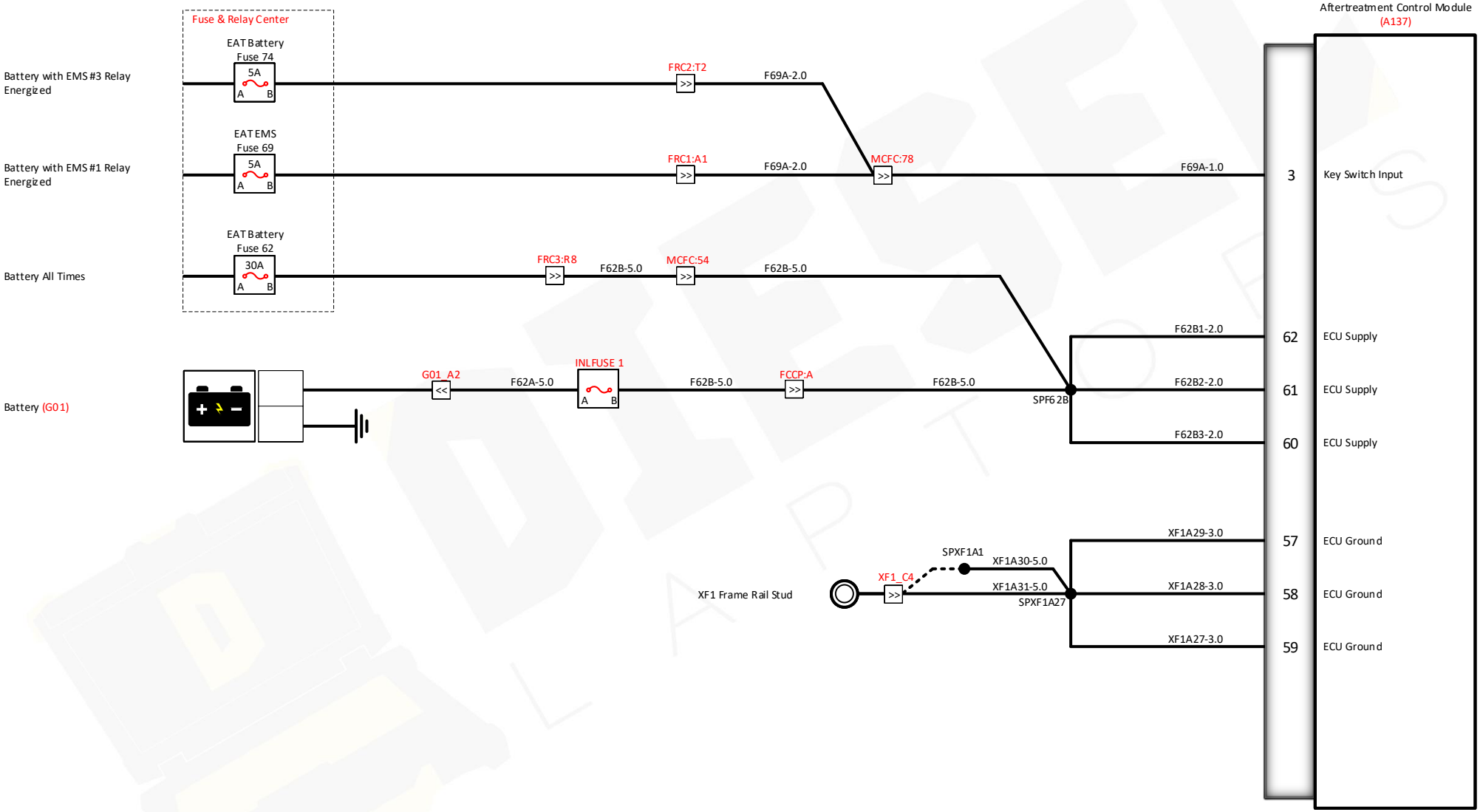
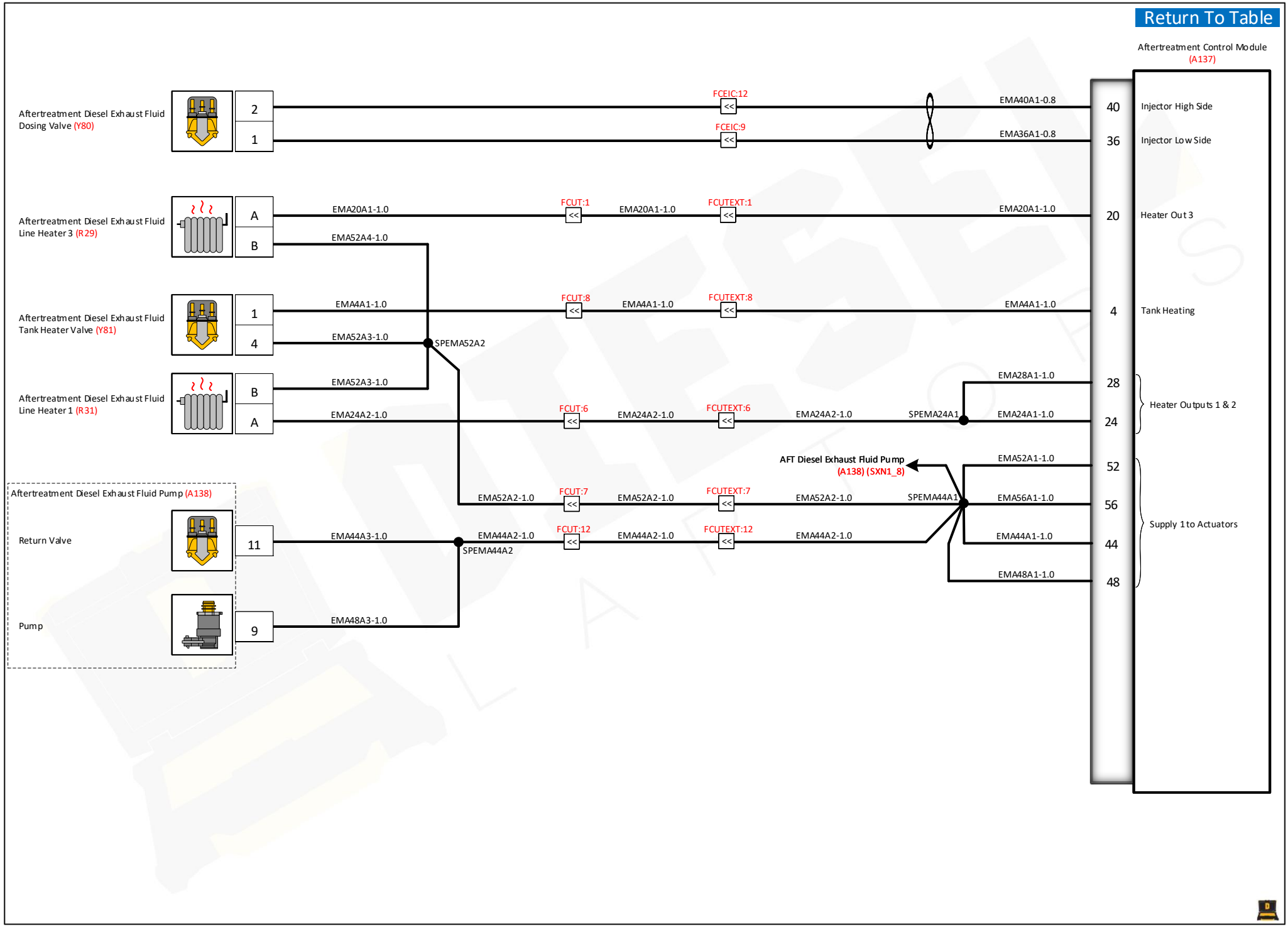


#Maximum Voltage Drop for Ignitor is 1V, 12AWG.

DPF System: Aftertreatment Diesel Exhaust Fluid Line Heater 1 & 3, Aftertreatment Diesel Exhaust Fluid Tank Heater Valve, Aftertreatment Diesel Exhaust Fluid Dosing Valve, Aftertreatment Diesel Exhaust Fluid Pump

SXN1_07

Return To Table



SCR System: Aftertreatment Diesel Exhaust Fluid Pump

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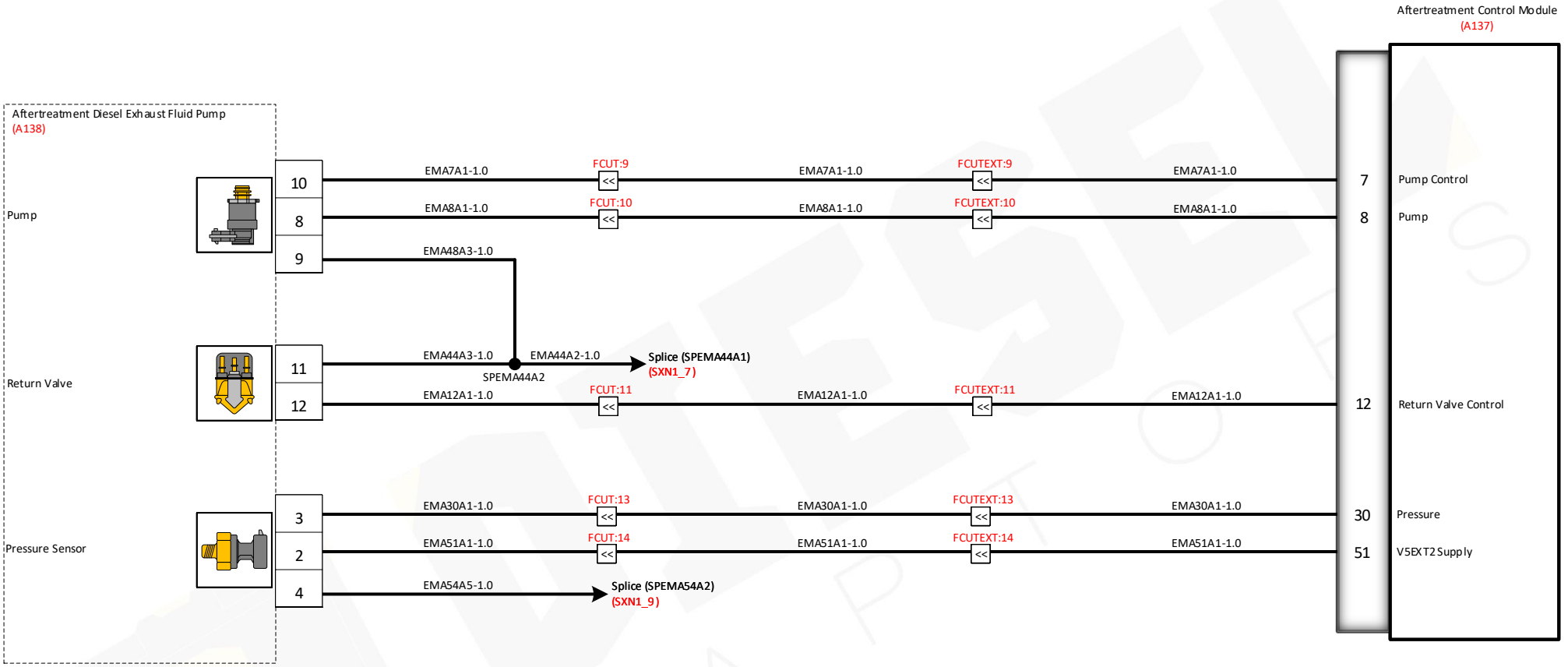

SCR System: Aftertreatment Diesel Exhaust Fluid Tank Level or Temperature Sensor, Aftertreatment Diesel Exhaust Fluid Pump

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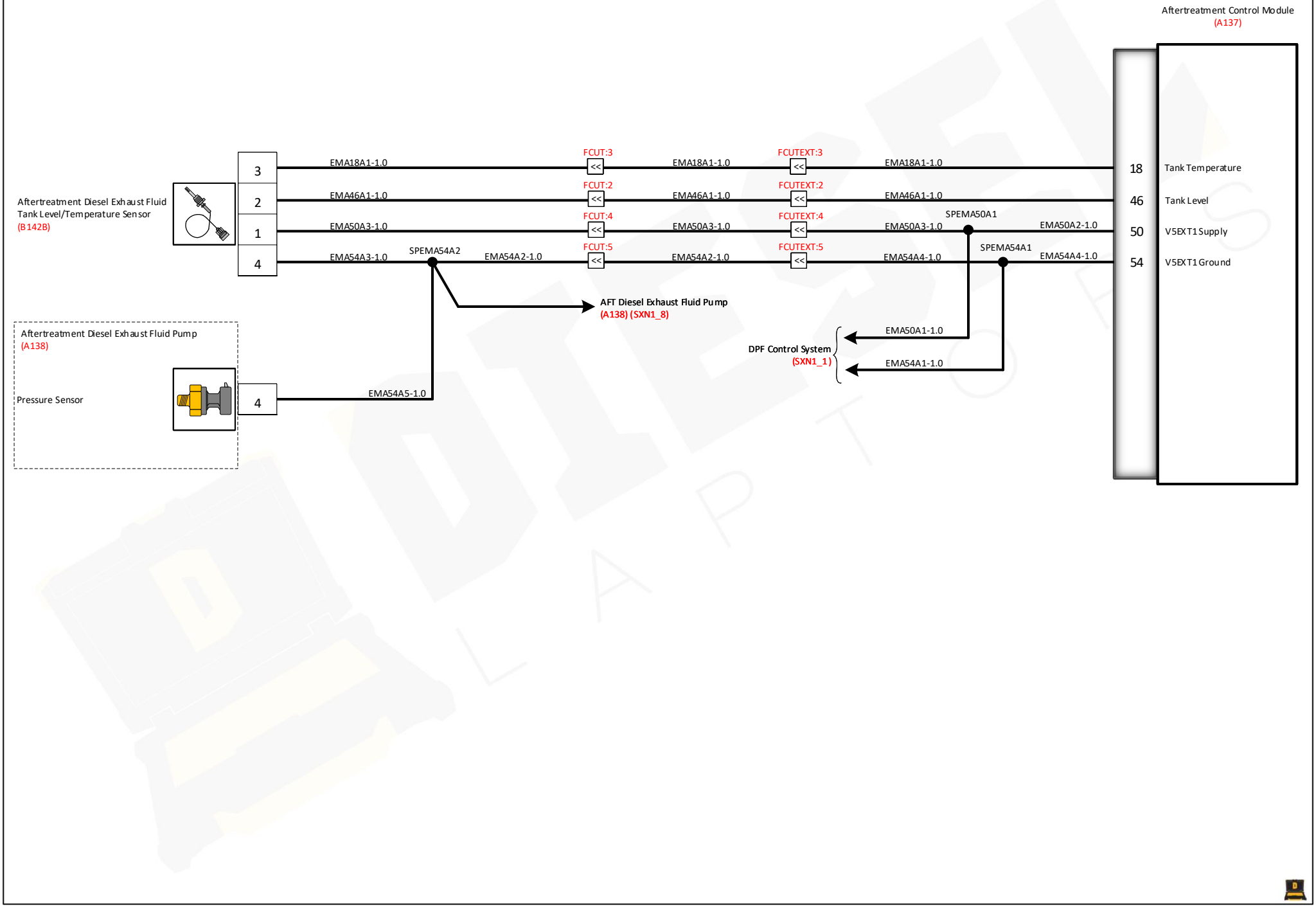

SCR System: NOX Sensors, Power, Grounds, & Data Lines

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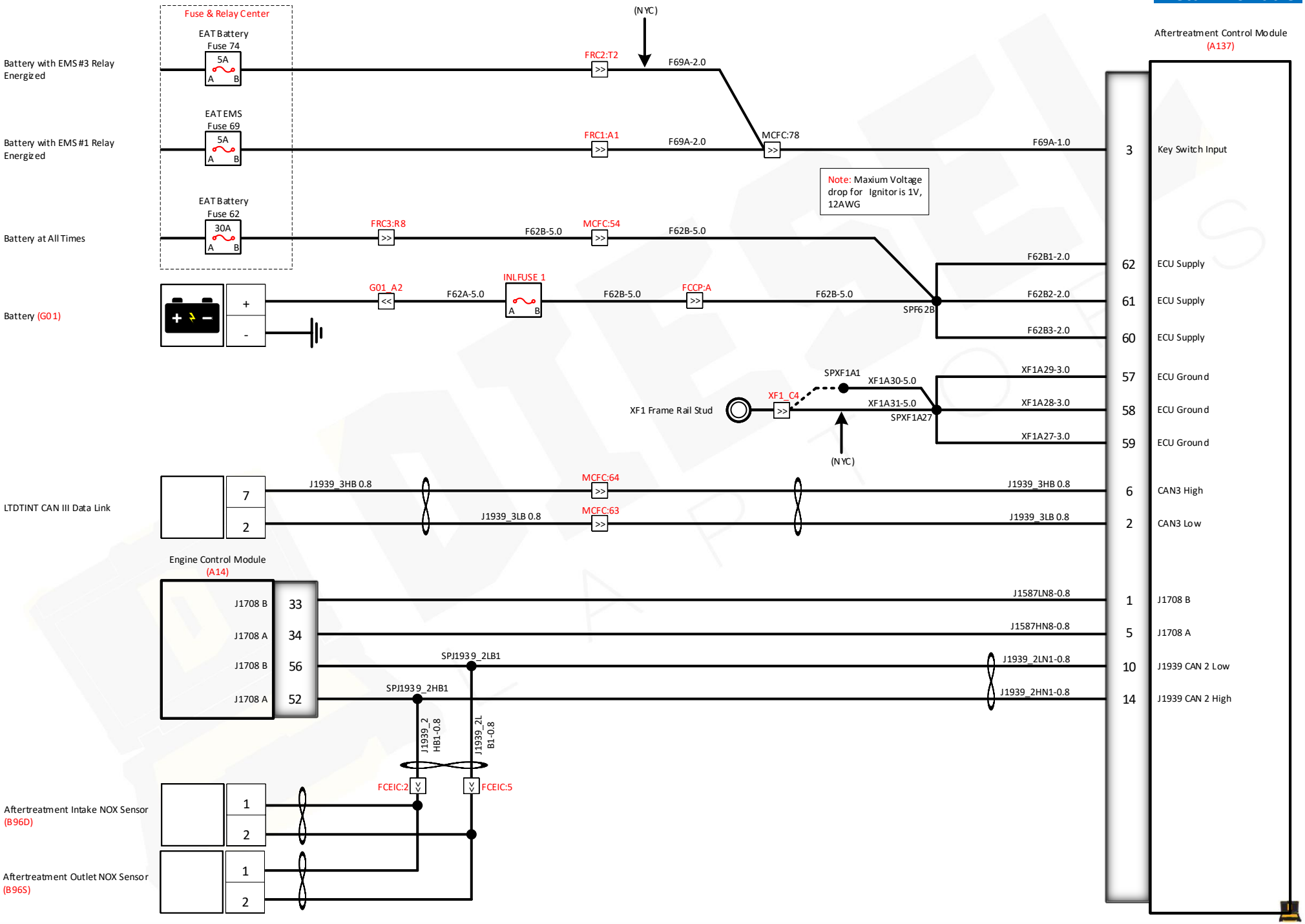

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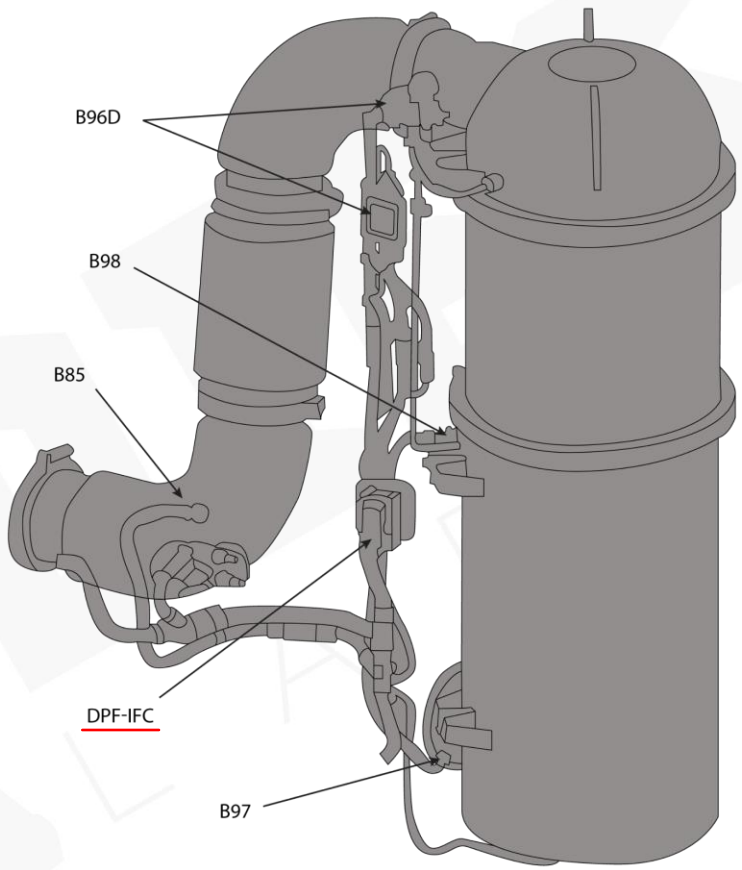
(DPF RACEWAY)



Return To Table

FCEIC		
Harness : FRONT_CHASSIS		
Part Number : 21082469		
Pin Number	Circuit Number	Function
1	-	-
2	J1939HB18	J1939-11/J1939-15
3	F46B1	Ignition Buss Feed
4	-	-
5	J1939LB18	J1939-11/J1939-15
6	XF1A5	Battery Ground
7	EMA42A1	Starting Aid (Ether, Preheat, Glow Plug)
8	EMA34A1	Starting Aid (Ether, Preheat, Glow Plug)
9	EMA36A1	Starting Aid (Ether, Preheat, Glow Plug)
10	EMA26A1	Starting Aid (Ether, Preheat, Glow Plug)
11	EMA39A1	Starting Aid (Ether, Preheat, Glow Plug)
12	EMA40A1	Starting Aid (Ether, Preheat, Glow Plug)
13	EMA55A1	Starting Aid (Ether, Preheat, Glow Plug)
14	EMA54A2	Starting Aid (Ether, Preheat, Glow Plug)
15	EMA50A2	Starting Aid (Ether, Preheat, Glow Plug)

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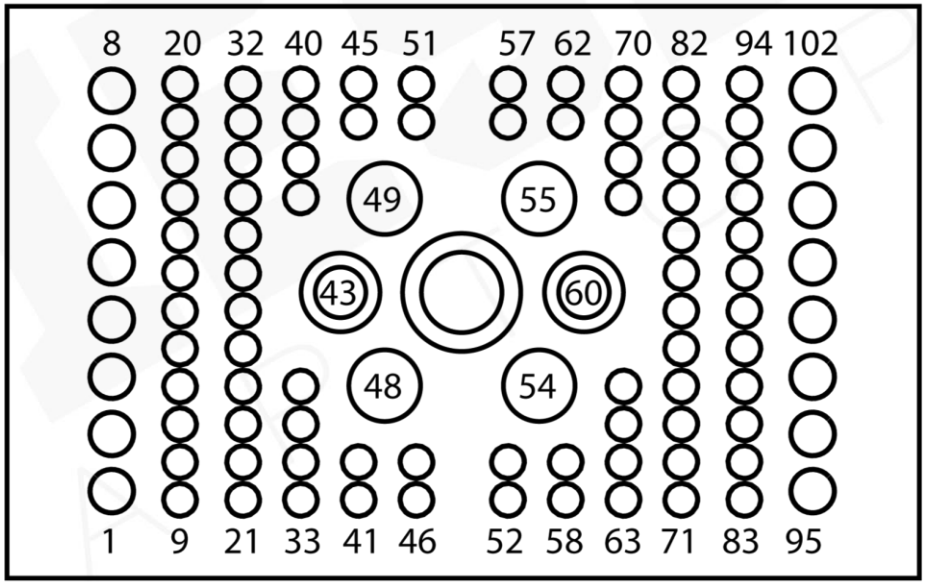
MCFC		
Harness : FRONT_CHASSIS		
Part Number : 598AX247		
Pin Number	Circuit Number	Function
1	CB11A	Park Brake
2	F8E	PTO Control
3	F42B1	Back Up
4	F42A2	Ignition Buss Feed
5	F17U	PTO Control
6	F64B1	Lamp Monitoring
7	F26B3	Hook Lamps
8	F15B2; F65C	Heated Mirrors
9	AATCV2	ABS
10	AFLWS2	ABS
11	HB3	Fuel Level Gauge
12	AFLWS1	ABS
13	AFRMVG	ABS
14	F2E	Fog/Road (Forward Facing)
15	F51B1	Headlamps
16	ARLMVG	Cab Ground; ABS
17	F50B1	Headlamps
18	F2C2	Headlamps
19	HC19B	Rear Axle Indicators
20	F52H	Battery Buss Feed
21	HB11	Oil Temp Gauge
22	HB10	Oil Temp Gauge
23	XC1B56; F17S	Shift Control
24	F5E3; F5E1	Stop; Turn (Directional)
25	F5D3; F5D1	Stop; Turn (Directional)
26	F21A2	Windshield Wipers
27	HB17	Miscellaneous Gauges
28	HB6	Miscellaneous Gauges
29	HA12G	Instrument Ground
30	CB6A1	Vehicle Speed
31	CB20A1; CB25A1	Vehicle Speed
32	AFLMVG	ABS
33	J1587LN18	J1587/J1708
34	J1587HN18	J1587/J1708
35	HB12	Oil Temp Gauge
36	F53A	Heater/AC (Cab)
37	F64A1	Ignition Buss Feed
38	F8J	PTO Control
39	F8B	PTO Control
40	HC20B	Rear Axle Indicators
41	CB3	Traction Control and Axle Lock
42	F8A6	PTO Control
43	-	-
44	AFRWS1	ABS
45	AFRWS2	ABS
46	CB17	Electronic Engine Control
47	AX3_2; F5B2; HC11	Electronic Ground; Stop
48	F39A1	Ignition Buss Feed
49	F39B1	Ignition Buss Feed
50	AFLMVO	ABS
51	AFRMVI	ABS
52	F52G	Brake Wear Sensor
53	F52C	Brake Wear Sensor
54	F32A	Ignition Buss Feed
55	F32B	Ignition Buss Feed
56	ARRWS2	ABS
57	ARRMVG	Cab Ground; ABS
58	F8H	PTO Control

MCFC		
Harness : MAIN_CAB		
Part Number : 598AX246		
Pin Number	Circuit Number	Function
1	CB11A	Park Brake
2	F8E	PTO Control
3	F42B1	Back Up
4	F42A2	Ignition Buss Feed; Electronic Controlled Transmission
5	F17U	PTO Control
6	F64B1	Lamp Monitoring
7	F26B3	Hook Lamps
8	F15B2; F65C	Heated Mirrors
9	AATCV2	ABS
10	AFLWS2	ABS
11	HB3	Fuel Level Gauge
12	AFLWS1	ABS
13	AFRMVG; XC1B11	Cab Ground; ABS
14	F2E	Fog/Road (Forward Facing)
15	F2G	DRL (Daytime Running Lamps)
16	ARLMVG; XC1B13	Cab Ground; ABS
17	F2H	DRL (Daytime Running Lamps)
18	F2C2	Headlamps
19	HC19B	Rear Axle Indicators
20	F52H	Battery Buss Feed
21	HB11	Rear Axle Indicators
22	HB10	Rear Axle Indicators
23	XC1B56; F17S	Shift Control; Electronic Controlled Transmission
24	F5E3; F5E1	Tail
25	F5D3; F5D1	Tail
26	F21A2	Ignition Buss Feed
27	HB17	Miscellaneous Gauges
28	HB6	Miscellaneous Gauges
29	HA12G	Electronic Ground
30	CB6A1	Vehicle Speed
31	CB20A1; CB25A1	Vehicle Speed
32	AFLMVG; XC1B12	Cab Ground; ABS
33	J1587LN1	J1587/J1708
34	J1587HN1	J1587/J1708
35	HB12	Oil Temp Gauge
36	F53A	Heater/AC (Cab)
37	F64A2; F64A1	Ignition Buss Feed
38	F8J	PTO Control
39	F8B	PTO Control
40	HC20B	Rear Axle Indicators
41	CB3	Traction Control and Axle Lock
42	F8A6	Ignition Buss Feed
43	-	-
44	AFRWS1	ABS
45	AFRWS2	ABS
46	CB17	Electronic Engine Control
47	AX3_2; F5B2; HC11	Electronic Ground; Stop; Electronic Controlled Transmission
48	F39A1	Ignition Buss Feed
49	F39B1	Ignition Buss Feed
50	AFLMVO	ABS
51	AFRMVI	ABS
52	F52G	Brake Wear Sensor
53	F52C	Brake Wear Sensor
54	F32A	Ignition Buss Feed
55	F32B	Ignition Buss Feed
56	ARRWS2	ABS
57	ARRMVG; XC1B14	Cab Ground; ABS
58	F8H	PTO Control

102-WAY HARNESS (MCFC)



FRC1		
Harness : MAIN_CAB		
Part Number : 82241315		
Pin Number	Circuit Number	Function
A1	F69A; URDD1; F69A; URDD1	Ignition Buss Feed; Battery Buss Feed; Ignition Buss Feed; Battery Buss Feed
A2	URDD	Ignition Buss Feed
A3	F64A3	Ignition Buss Feed
A4	F63A	Ignition Buss Feed
A5	F31A	Ignition Buss Feed
A6	F18A	Ignition Buss Feed
A7	F17A	Ignition Buss Feed
A8	F16A	Ignition Buss Feed
A9	F66A	Ignition Buss Feed
B1	F29B1	Ignition Buss Control - Control of buss relay by Vehicle ECU
B2	X2D1	Cab Ground
B3	F7A1	Battery Buss Feed
B4	CB1A	Ignition Buss Control - Control of buss relay by Vehicle ECU
C1	N110	Battery Buss Feed
C2	F68A	Battery Buss Feed
C3	-	-
C4	-	-
C5	F61A; F61A	Battery Spare; Battery Buss Feed; Battery Spare;Battery Buss Feed
C6	F60A	Battery Buss Feed
C7	-	-
C8	F51A	Battery Buss Feed
C9	F10A	Battery Buss Feed
D1	F25A	Battery Buss Feed
E1	F26A	Battery Buss Feed
E2	F20A	Battery Buss Feed
E3	F19A	Battery Buss Feed
E4	F15A	Battery Buss Feed
E5	-	-
E6	F13A	Battery Buss Feed
E7	F12A	Battery Buss Feed
E8	F11A	Battery Buss Feed
E9	F50A	Battery Buss Feed
F1	X2D2	Cab Ground
F2	F29B2	Ignition Buss Control - Control of buss relay by Vehicle ECU
F3	CB1B	Ignition Buss Control - Control of buss relay by Vehicle ECU
F4	F7A3	Battery Buss Feed
F8	F38A1	Ignition Buss Feed
G1	F58A	Ignition Buss Feed
G2	F49A	Ignition Buss Feed
G3	F47A	Ignition Buss Feed
G4	F46A	Battery Buss Feed
G5	F76A; F41A	Ignition Buss Feed
G6	F39A; F39A	Ignition Buss Feed; Ignition Buss Feed
G7	F38A	Ignition Buss Feed
G8	F43A	Ignition Buss Feed
G9	F57A	Ignition Buss Feed
A10	F30A	Ignition Buss Feed
A11	F27A	Ignition Buss Feed
A12	F24A	Ignition Buss Feed
A13	F23A	Ignition Buss Feed
A14	F22A	Ignition Buss Feed
A15	F21A	Ignition Buss Feed
A16	F8A	Ignition Buss Feed
C10	F9A	Battery Buss Feed
C11	F7A	Battery Buss Feed
C12	F6A	Battery Buss Feed
C13	F5A	Battery Buss Feed
C14	F4A	Battery Buss Feed
C15	F3A	Battery Buss Feed
C16	F2A	Battery Buss Feed
E10	F37A	Battery Buss Feed
E11	F36A	Battery Buss Feed
E12	F35A	Battery Buss Feed
E13	F34A	Battery Buss Feed
E14	F33A	Battery Buss Feed
E15	F32A	Battery Buss Feed
E16	F29A	Battery Buss Feed
G10	F56A	Ignition Buss Feed
G11	F55A	Ignition Buss Feed
G12	F52A	Ignition Buss Feed
G13	F45A	Ignition Buss Feed
G14	F44A	Ignition Buss Feed
G15	F42A	Ignition Buss Feed
G16	F40A; F40A	Ignition Buss Feed; Ignition Buss Feed

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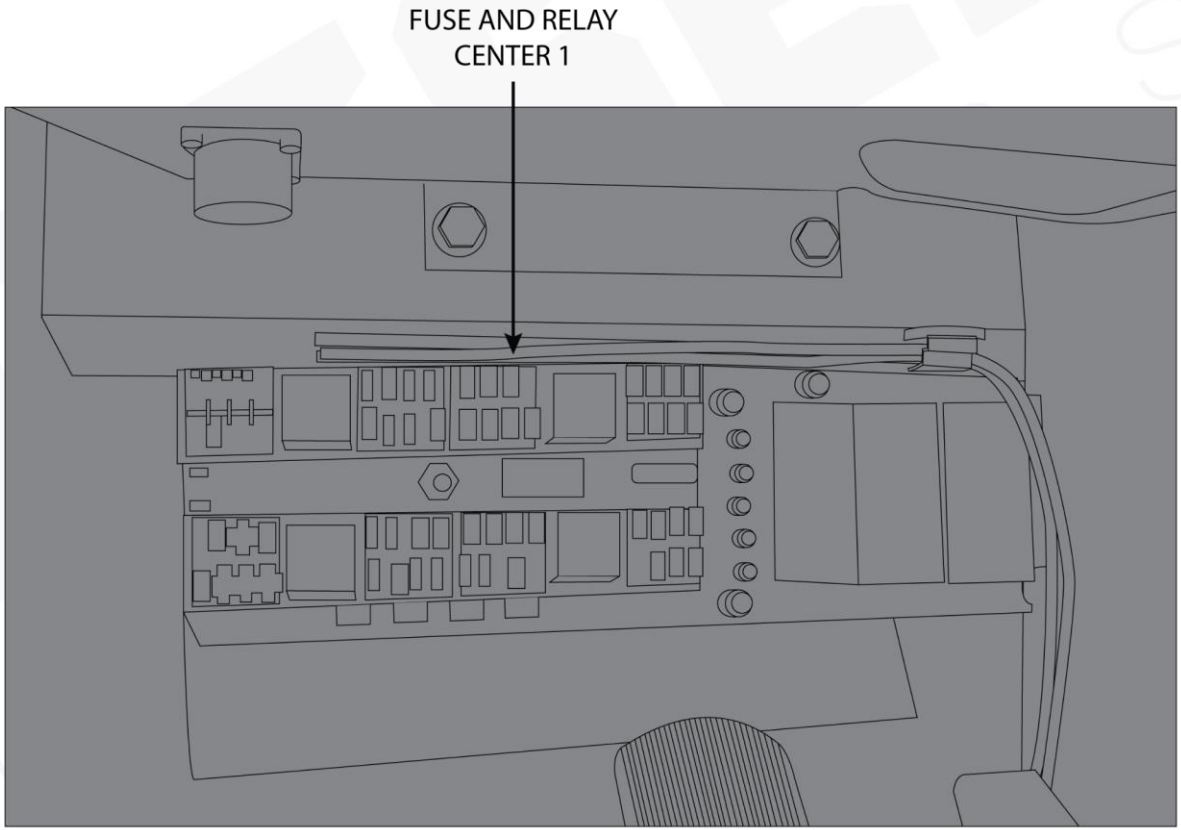
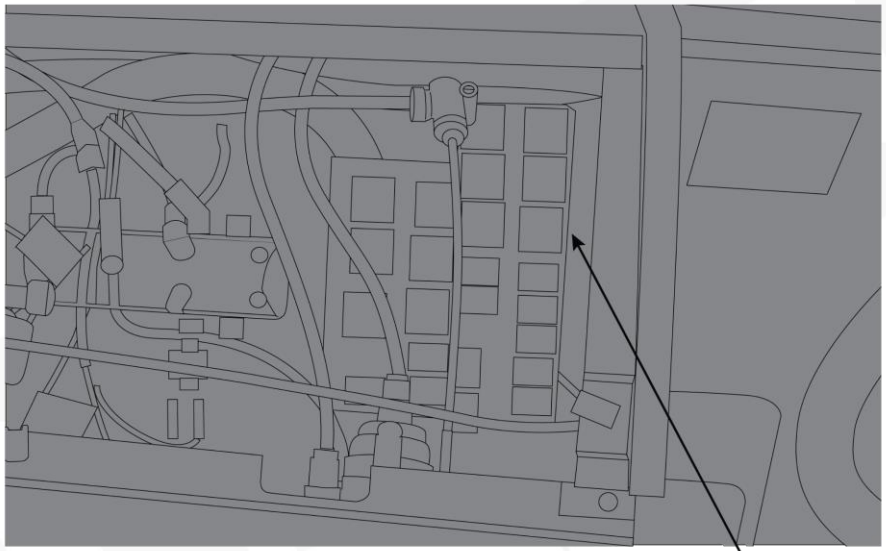


Return To Table

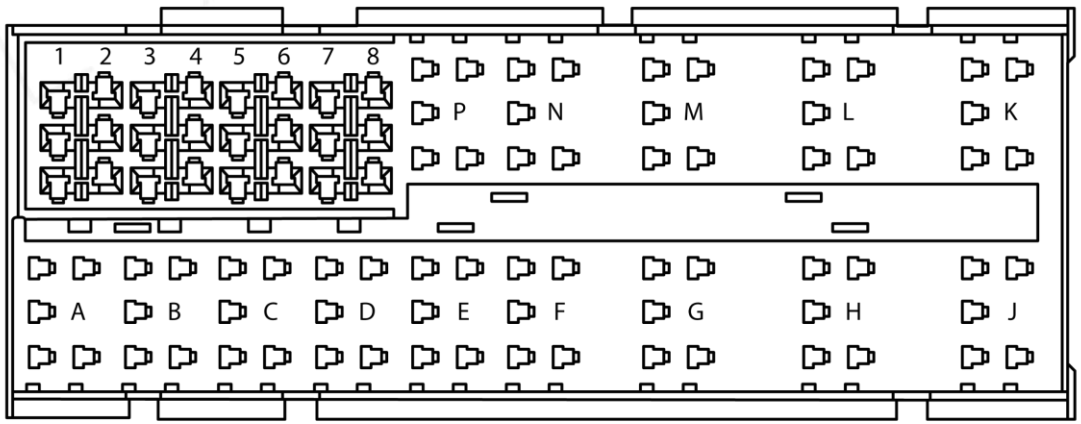
FRC2		
Harness : MAIN_CAB		
Part Number : 87RU520M		
Pin Number	Circuit Number	Function
R1	CB13A1	-
R2	-	-
R3	CA23	Electronic Engine Control
R4	CB13A5	-
R5	-	-
R6	F4B1	Turn (Directional)
R7	U77A; URDE1; U77A; URDE1	Ignition Buss Feed; Ignition Buss Feed
R8	F38A; F77B; F38A; F77B	Ignition Buss Feed; Ignition Buss Feed
S1	CA23B	Electronic Engine Control
S2	CA23A	Electronic Engine Control
S3	F58A1	Ignition Buss Feed
S4	F4F	Turn (Directional)
S5	F4E	Turn (Directional)
S6	F58A4	Ignition Buss Feed
S7	U76A; URDE3; U76A; URDE3	Ignition Buss Feed; Ignition Buss Feed
S8	F41A; F76B; F41A; F76B	Ignition Buss Feed; Ignition Buss Feed
T1	F72A1; URDE4	Ignition Buss Feed; Ignition Buss Feed
T2	F74A; F69A; F74A; F69A	Battery Buss Feed; Battery Buss Feed
T3	F77B; URDB12; F77B; URDB12	Battery Cable; Battery Cable
T4	F60A; F77C	Battery Buss Feed
T5	F77D; URDB6; F77D; URDB6	Battery Cable; Battery Cable
T6	F77C1; F75A; F77C1; F75A	Battery Buss Feed; Battery Buss Feed
T7	U75A; URDE2; U75A; URDE2	Ignition Buss Feed; Ignition Buss Feed
T8	F49A; F75B; F49A; F75B	Ignition Buss Feed; Ignition Buss Feed
A30	F5B4	Stop
A85	F31A2	Ignition Buss Feed
A86	N124CM1	Electronic Controlled Transmission
A87	F5A4	Battery Buss Feed
B30	F5A3; F5A4	Battery Buss Feed
B85	F16A2	Ignition Buss Feed
B86	CB11A	Park Brake
B87	F5B3; F5B4	Stop
C30	F5A2; F5A3	Battery Buss Feed
C85	F7H	Brake (Air/Hydraulic) Indicator and Gauge
C86	X2D9	Cab Ground
C87	F5B2	Stop
D30	F8A4; F30H1	Winch; Ignition Buss Feed
D85	F34B5; F30G2; F34B5; F30G2	Winch; Back Up; Winch; Back Up
D86	X2A22; X2D14; X2A22; X2D14	Cab Ground; Cab Ground
D87	F30K	Winch
E30	F33A	Battery Buss Feed
E85	F5B6	Stop
E86	X2D8; X2D9	Cab Ground
E87	F33B	Stop
F30	F60A	Battery Buss Feed
F85	F38A3	Ignition Buss Feed
F86	X2D18	Cab Ground
F87	F60B2	Ignition Buss Feed
G30	F35A	Battery Buss Feed
G85	F3B13	Clearance
G86	X2D13	Cab Ground
G87	F35B	Clearance
H30	F25A1	Battery Buss Feed
H85	F25A2	Battery Buss Feed
H86	CB1C	Ignition Buss Control - Control of buss relay by Vehicle ECU
H87	F25B	Ignition Buss Feed
J30	F34A2; F34A2	Battery Buss Feed; Battery Buss Feed
J85	F42B2	Back Up
J86	X2D4; X2D5	Cab Ground
J87	F34B; F34B	Back Up; Back Up
K30	N130A; F34A1; N130A; F34A1	Battery Buss Feed; Electronic Controlled Transmission; Battery Buss Feed; Electronic Controlled Transmission
K85	N145NO1; N145NO2	Electronic Controlled Transmission
K86	X2D5	Cab Ground
K87	N130; F34C; N130; F34C	Electronic Controlled Transmission, Electronic Controlled Transmission
L30	F42A	Ignition Buss Feed
L85	F31A5; F31A4	Ignition Buss Feed
L86	N165	Electronic Controlled Transmission
L87	F42B4	Back Up
M30	N130CM; F30B1; N130CM; F30B1	Winch; Electronic Controlled Transmission; Winch; Electronic Controlled Transmission
M85	N130; N130A	Electronic Controlled Transmission
M86	N169F; N169B; N109G;N169F; N169B; N109G	Cab Ground; Cab Ground
M87	N130NO; F30H; N130NO; F30H	Winch; Electronic Controlled Transmission; Winch; Electronic Controlled Transmission
N30	N124CM	Electronic Controlled Transmission
N85	F31A5; F31A6	Ignition Buss Feed
N86	N124	Electronic Controlled Transmission
N87	-	-
P30	F31A3	Ignition Buss Feed
P85	F31A6	Ignition Buss Feed
P86	N145	Electronic Controlled Transmission
P87	N145NO1; N145NO	Electronic Controlled Transmission
A87A	-	-
B87A	-	-
C87A	-	-
D87A	F8G	Two Speed Rear Axle
E87A	-	-
F87A	-	-
G87A	-	-
H87A	-	-
J87A	-	-
K87A	-	-
L87A	-	-
M87A	N130NC	Electronic Controlled Transmission
N87A	X2D3	Cab Ground
P87A	N145NC	Electronic Controlled Transmission

RIGHT CENTER OF DASH



FUSE AND RELAY
CENTER 2 & 3

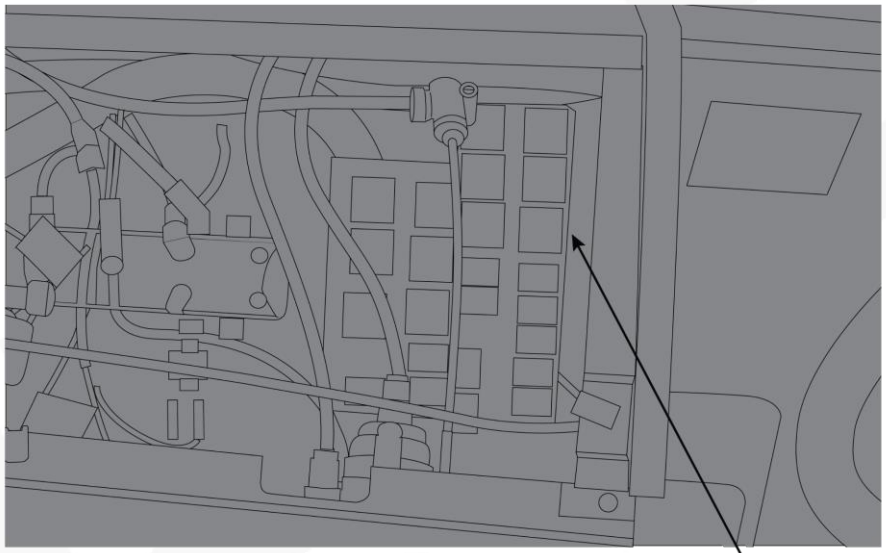
94- WAY HARNESS (FRC2)



Return To Table

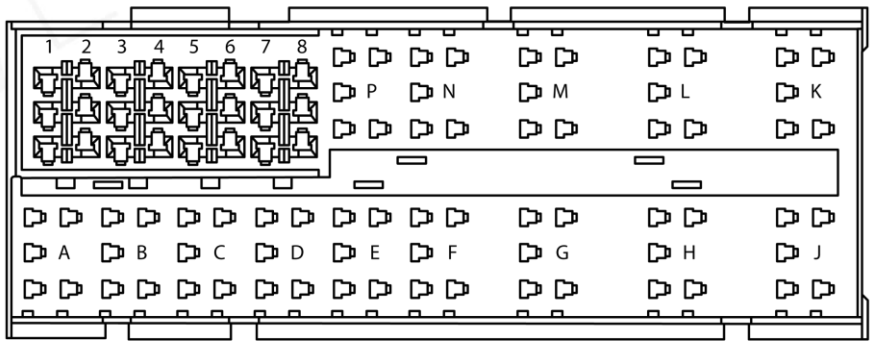
FRC3		
Harness : MAIN_CAB		
Part Number : 87RU520M		
Pin Number	Circuit Number	Function
R1	X2D26	Cab Ground
R2	-	-
R3	F7C1	-
R4	CB13A3	-
R5	-	-
R6	CB8	Electronic Engine Control
R7	URDB7	Battery Cable
R8	F62B	Battery Buss Feed
S1	-	-
S2	F7C2	-
S3	F17M4	PTO Control
S4	CB8B	Electronic Engine Control
S5	CB8A	Electronic Engine Control
S6	F58A3	Ignition Buss Feed
S7	URDB14	Battery Cable
S8	F36A	Battery Buss Feed
T1	URDB13	Battery Cable
T2	F29A	Battery Buss Feed
T3	URDB3	Battery Cable
T4	F19A	Battery Buss Feed
T5	URDB8	Battery Cable
T6	N11O	Battery Buss Feed
T7	URDB4	Battery Cable
T8	F13A	Battery Buss Feed
A30	F50A	Battery Buss Feed
A85	F3D1; F3D2; F3D	Headlamps
A86	F3H4; F3H3	;
A87	F50B	Headlamps
B30	F51A	Battery Buss Feed
B85	F3D2	Headlamps
B86	F3H3; F3H2	;
B87	F51B	Headlamps
C30	F2A2	Battery Buss Feed
C85	F3B12	Clearance
C86	F3H	-
C87	-	-
D30	F9A	Battery Buss Feed
D85	F7B	Accessory Buss Feed
D86	X2D6; X2D11	Cab Ground
D87	F9B	Accessory Buss Feed
E30	F7A4	Battery Buss Feed
E85	CB28	Starter Relay and Controls
E86	X2D11; X2D10	Cab Ground
E87	F7E	-
F30	F29A; F29A1	Battery Buss Feed
F85	F29A1	Battery Buss Feed
F86	CB15	Ignition Buss Control - Control of buss relay by Vehicle ECU
F87	F29B	Ignition Buss Control - Control of buss relay by Vehicle ECU
G30	F37A	Battery Buss Feed
G85	F3B6	Clearance
G86	X2D6	Cab Ground
G87	F37B	Tail
H30	F22A2	Ignition Buss Feed
H85	F23D1	Windshield Wipers
H86	F23A5; F23A4	Ignition Buss Feed
H87	F22D	Windshield Wipers
J30	F22C	Windshield Wipers
J85	F23C1	Windshield Wipers
J86	F23A4; F23A3	Ignition Buss Feed
J87	F22E	Windshield Wipers
K30	F21C	Windshield Wipers
K85	F23C2	Windshield Wipers
K86	F23A6; F23A5	Ignition Buss Feed
K87	F21E	Windshield Wipers
L30	F21A2	Ignition Buss Feed
L85	F23D2	Windshield Wipers
L86	F23A6	Ignition Buss Feed
L87	F21D	Windshield Wipers
M30	F36B	Horn
M85	F36A1	Battery Buss Feed
M86	F36D; F36D1	Horn
M87	F36A; F36A1;	Battery Buss Feed
N30	F15A1; F17M1; F15A1; F17M1	PTO Control; Battery Buss Feed; PTO Control; Battery Buss Feed
N85	F30B1; F31B3	Electronic Controlled Transmission
N86	X2D14; X2D15; X2D14; X2D15	Cab Ground; Cab Ground
N87	F15B; CA29	PTO Control
P30	F15A2; F17M3; F15A2; F17M3	PTO Control; Battery Buss Feed; PTO Control;
P85	F34B3; F30G1; F34B3; F30G1	Winch; Back Up; Winch; Back Up
P86	X2D15; F76P	Lamp Monitoring; Cab Ground
P87	F15B1; CB21; F15B1; CB21	PTO Control; PTO Control
A87A	F50C	-
B87A	F51C	-
C87A	F2B	-
D87A	F9D	Headlamps
E87A	-	-
F87A	-	-
G87A	-	-
H87A	F22E	Windshield Wipers
J87A	F22B	Windshield Wipers
K87A	F21B	Windshield Wipers
L87A	F21E	Windshield Wipers
M87A	-	-
N87A	-	-
P87A	-	-

RIGHT CENTER OF DASH



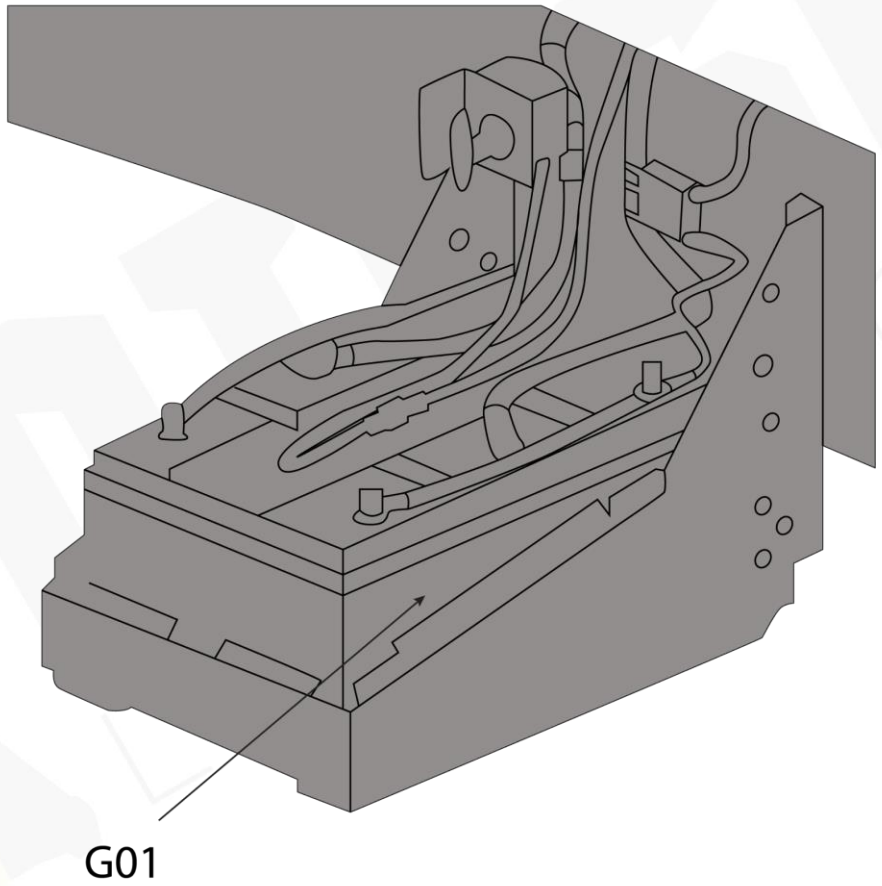
FUSE AND RELAY
CENTER 2 & 3

94- WAY HARNESS (FRC3)



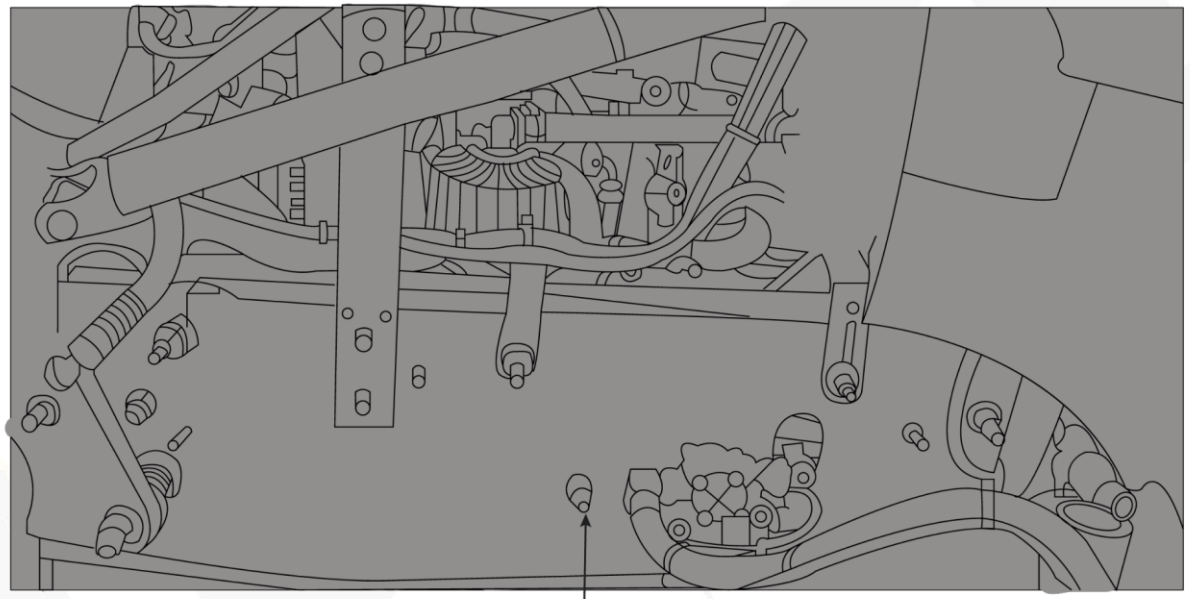
Return To Table

Battery



Return To Table

LEFT SIDE OF FRAME RAIL



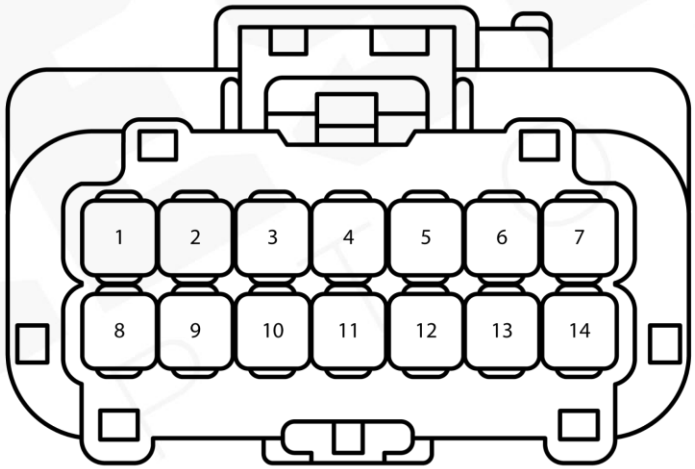
XF1 FRAME RAIL STUD

Return To Table

FCUT		
Harness : UREA_TANK		
Part Number :20734995		
Pin Number	Circuit Number	Function
1	-	Cab Ground
2	EMA46A1	-
3	EMA18A1	Starting Aid (Ether, Preheat, Glow Plug)
4	EMA50A3	Starting Aid (Ether, Preheat, Glow Plug)
5	EMA54A4	Starting Aid (Ether, Preheat, Glow Plug)
6	EMA20A1	Starting Aid (Ether, Preheat, Glow Plug)
7	EMA52A1	Starting Aid (Ether, Preheat, Glow Plug)
8	EMA4A1	Starting Aid (Ether, Preheat, Glow Plug)
9	EMA7A1	Starting Aid (Ether, Preheat, Glow Plug)
10	EMA8A1	Starting Aid (Ether, Preheat, Glow Plug)
11	EMA12A1	Starting Aid (Ether, Preheat, Glow Plug)
12	EMA44A1	Starting Aid (Ether, Preheat, Glow Plug)
13	EMA30A1	Starting Aid (Ether, Preheat, Glow Plug)
14	EMA51A1	Starting Aid (Ether, Preheat, Glow Plug)

FCUT		
Harness : FRONT_CHASSIS		
Part Number :20734993		
Pin Number	Circuit Number	Function
1	-	-
2	EMA46A1	Starting Aid (Ether, Preheat, Glow Plug)
3	EMA18A1	Starting Aid (Ether, Preheat, Glow Plug)
4	EMA50A3	Starting Aid (Ether, Preheat, Glow Plug)
5	EMA54A4	Starting Aid (Ether, Preheat, Glow Plug)
6	EMA20A1	Starting Aid (Ether, Preheat, Glow Plug)
7	EMA52A2	Starting Aid (Ether, Preheat, Glow Plug)
8	EMA4A1	Starting Aid (Ether, Preheat, Glow Plug)
9	EMA7A1	Starting Aid (Ether, Preheat, Glow Plug)
10	EMA8A1	Starting Aid (Ether, Preheat, Glow Plug)
11	EMA12A1	Starting Aid (Ether, Preheat, Glow Plug)
12	EMA44A2	Starting Aid (Ether, Preheat, Glow Plug)
13	EMA30A1	Starting Aid (Ether, Preheat, Glow Plug)
14	EMA51A1	Starting Aid (Ether, Preheat, Glow Plug)

14 - WAY HARNESS (FCUT)



Aftertreatment Control Module

Return To Table

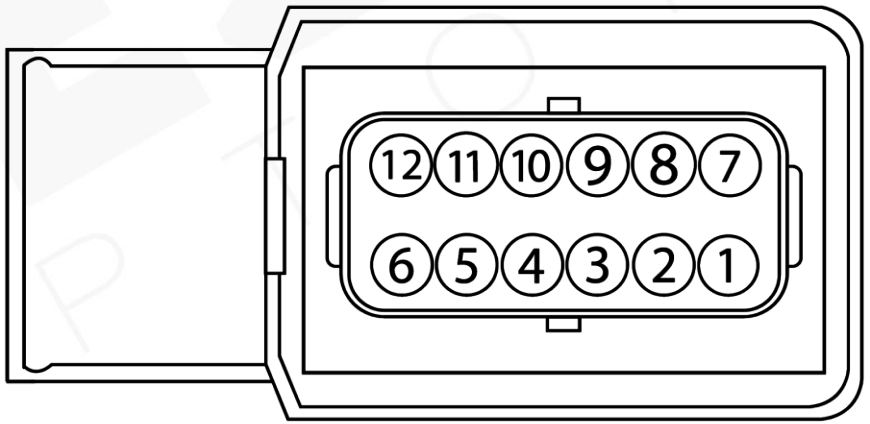
A137 - Aftertreatment Control Module		
Harness :FRONT_CHASSIS		
Part Number : 20429842		
Pin Number	Circuit Number	Function
1	J1587LN8	J1587/J1708
2	J1939_3LB	J1939-11/J1939-15
3	F69A	Ignition Buss Feed
4	EMA4A1	Electronic Engine Control
5	J1587HN8	J1587/J1708
6	J1939_3HB	J1939-11/J1939-15
7	EMA7A1	Electronic Engine Control
8	EMA8A1	Electronic Engine Control
9	EMA9A1	Electronic Engine Control
10	J1939_2LN1	J1939-11/J1939-15
11	-	
12	EMA12A1	Electronic Engine Control
13	EMA13A1	Electronic Engine Control
14	J1939_2HN1	J1939-11/J1939-15
15	-	-
16	-	-
17	EMA17A1	Electronic Engine Control
18	EMA18A1	Electronic Engine Control
19	-	-
20	EMA20A1	Electronic Engine Control
21	EMA21A1	Electronic Engine Control
22	EMA22A1	Electronic Engine Control
23	EMA23A1	Electronic Engine Control
24	EMA24A1	Electronic Engine Control
25	EMA25A1	Electronic Engine Control
26	EMA26A1	Electronic Engine Control
27	-	-
28	EMA28A1	Electronic Engine Control
29	EMA29A1	Electronic Engine Control
30	EMA30A1	Electronic Engine Control
31	-	-
32	-	-
33	EMA33A1	Electronic Engine Control
34	EMA34A1	Electronic Engine Control
35	-	-
36	EM36A1	Electronic Engine Control
37	EMA37A1	Electronic Engine Control
38	-	-
39	EMA39A1	Electronic Engine Control
40	EMA40A1	Electronic Engine Control
41	EMA41A1	Electronic Engine Control
42	EMA42A1	Electronic Engine Control
43	EMA43A1	Electronic Engine Control
44	EMA44A1	Electronic Engine Control
45	EMA45A1	Electronic Engine Control
46	EMA46A1	Electronic Engine Control
47	-	-
48	EMA48A1	Electronic Engine Control
49	EMA49A1	Electronic Engine Control
50	EMA50A2	Electronic Engine Control
51	EMA51A1	Electronic Engine Control
52	EMA52A1	Electronic Engine Control
53	EMA53A1	Electronic Engine Control
54	EMA54A4	Electronic Engine Control
55	EMA55A1	Electronic Engine Control
56	EMA56A1	Electronic Engine Control
57	XF1A29	Electronic Engine Control
58	XF1A28	Electronic Engine Control
59	XF1A27	Electronic Engine Control
60	F62B3	Battery Buss Feed
61	F62B2	Battery Buss Feed
62	F62B1	Battery Buss Feed

Return To Table

A138 - Aftertreatment Diesel Exhaust Fluid Pump		
Harness : UREA_TANK		
Part Number : 993376		
Pin Number	Circuit Number	Function
1		-
2	EMA51A1	Starting Aid (Ether, Preheat, Glow Plug)
3	EMA30A1	Starting Aid (Ether, Preheat, Glow Plug)
4	EMA54A4	Starting Aid (Ether, Preheat, Glow Plug)
5	-	-
6	-	-
7	-	-
8	EMA8A1	Starting Aid (Ether, Preheat, Glow Plug)
9	EMA48A2	Starting Aid (Ether, Preheat, Glow Plug)
10	EMA7A1	Starting Aid (Ether, Preheat, Glow Plug)
11	EMA44A2	Starting Aid (Ether, Preheat, Glow Plug)
12	EMA12A1	Starting Aid (Ether, Preheat, Glow Plug)

12-WAY HARNESS (A138)

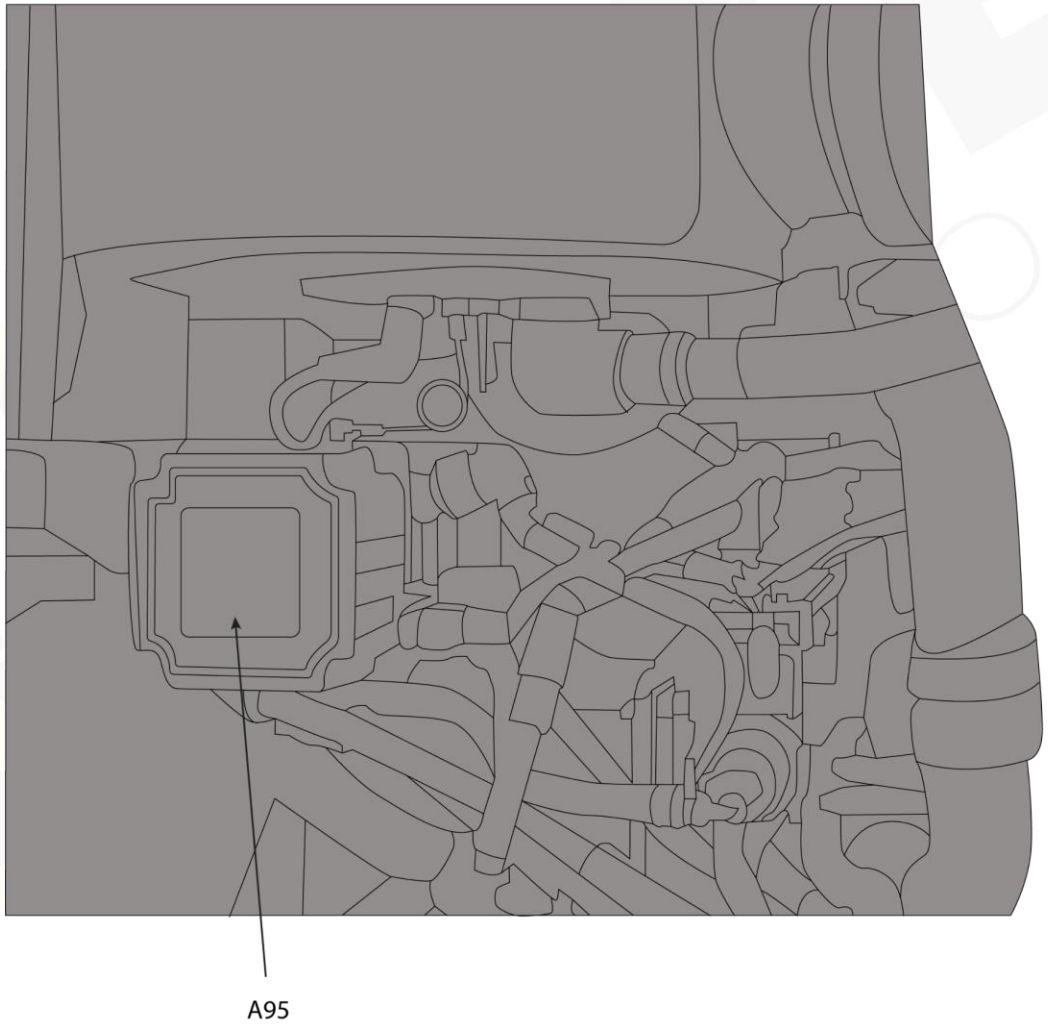
DEF PUMP



Return To Table

Aftertreatment Diesel Particulate Filter Atomization Module

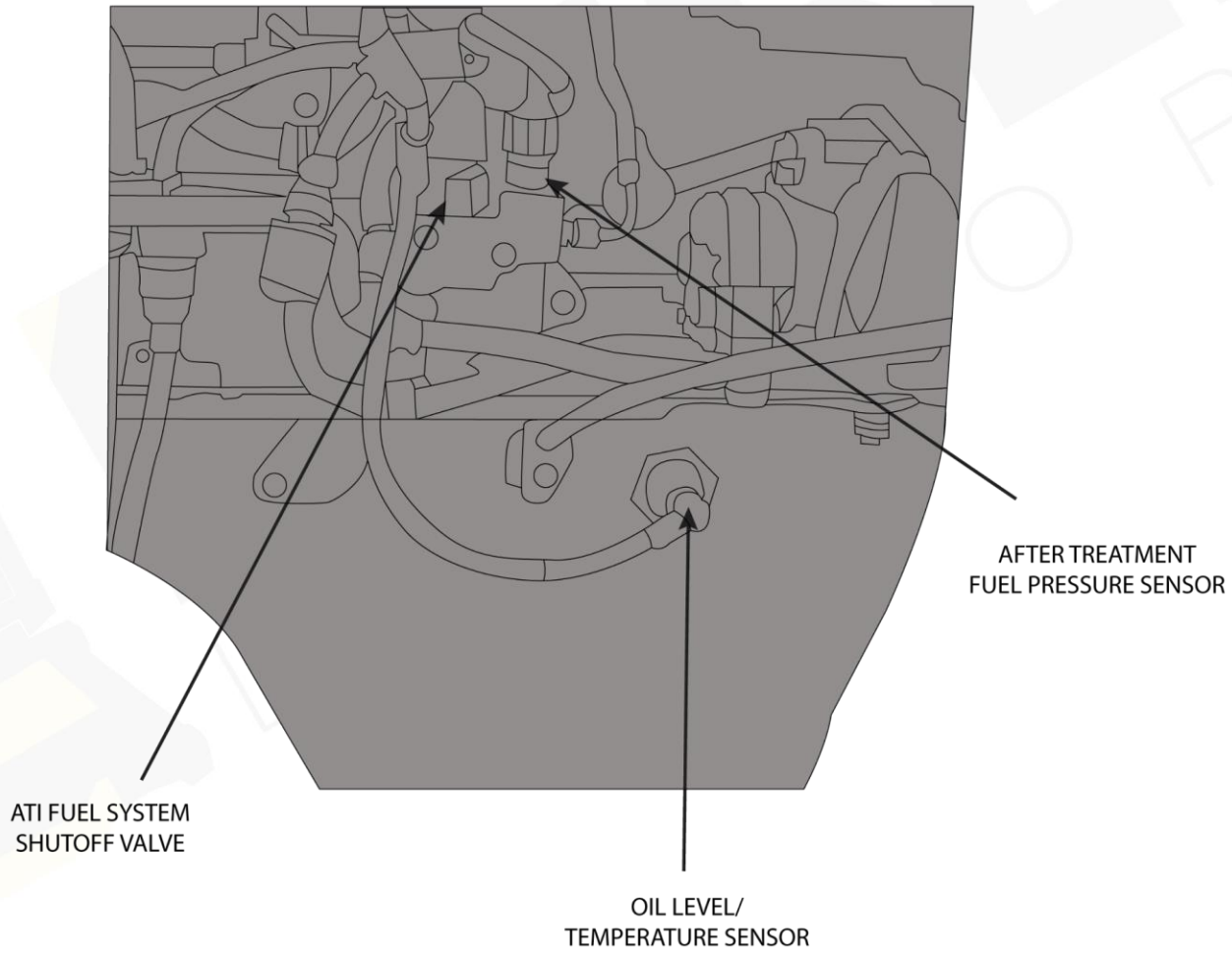
(LEFT SIDE OF STANTION)



Return To Table

Aftertreatment Fuel Pressure Sensor

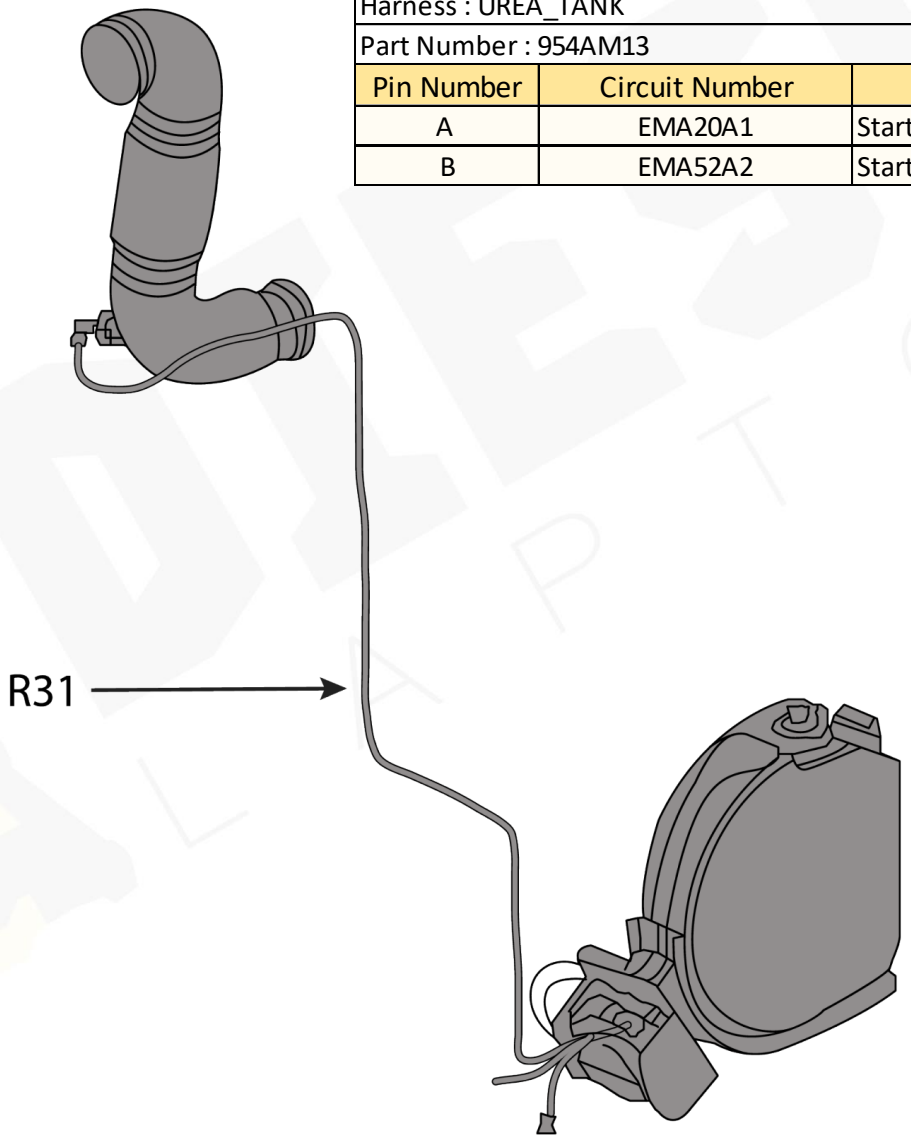
(LOWER LEFT SIDE OF ENGINE)



Return To Table

Aftertreatment Diesel Exhaust Filter Fluid Line Heater #1

R31		
Harness : UREA_TANK		
Part Number : 954AM13		
Pin Number	Circuit Number	Function
A	EMA20A1	Starting Aid (Ether, Preheat, Glow Plug)
B	EMA52A2	Starting Aid (Ether, Preheat, Glow Plug)

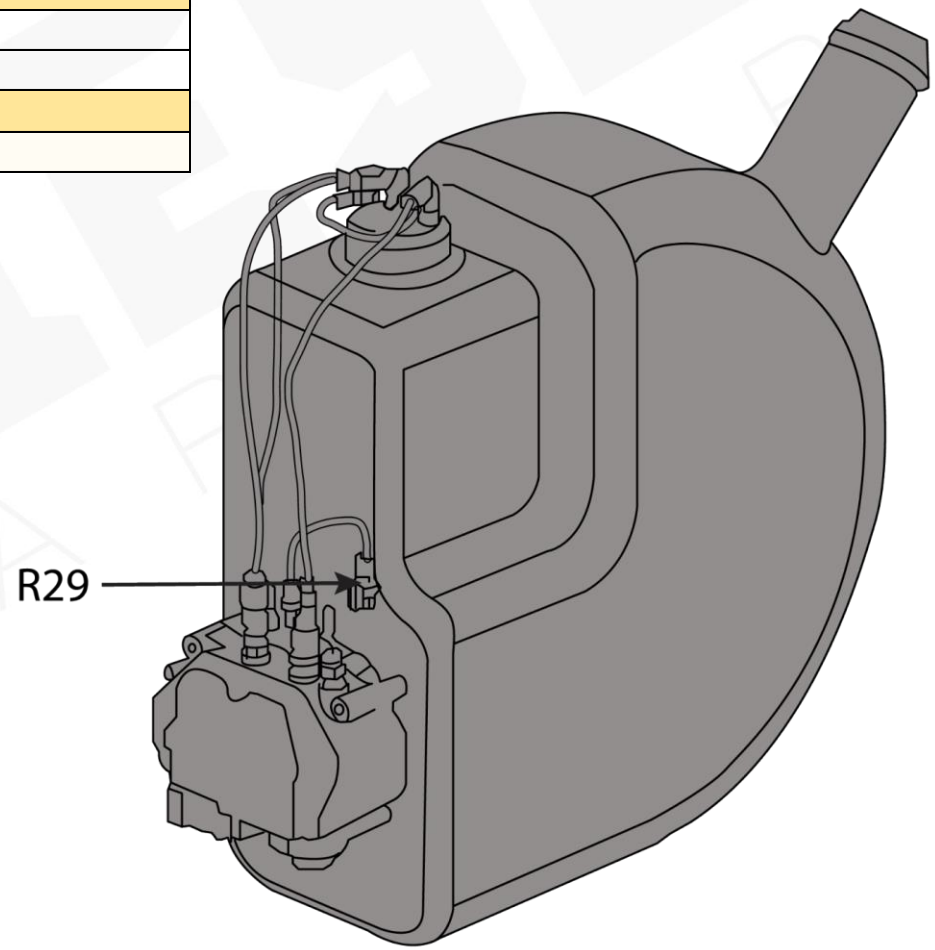


Return To Table

Aftertreatment Diesel Exhaust Filter Line Heater #3

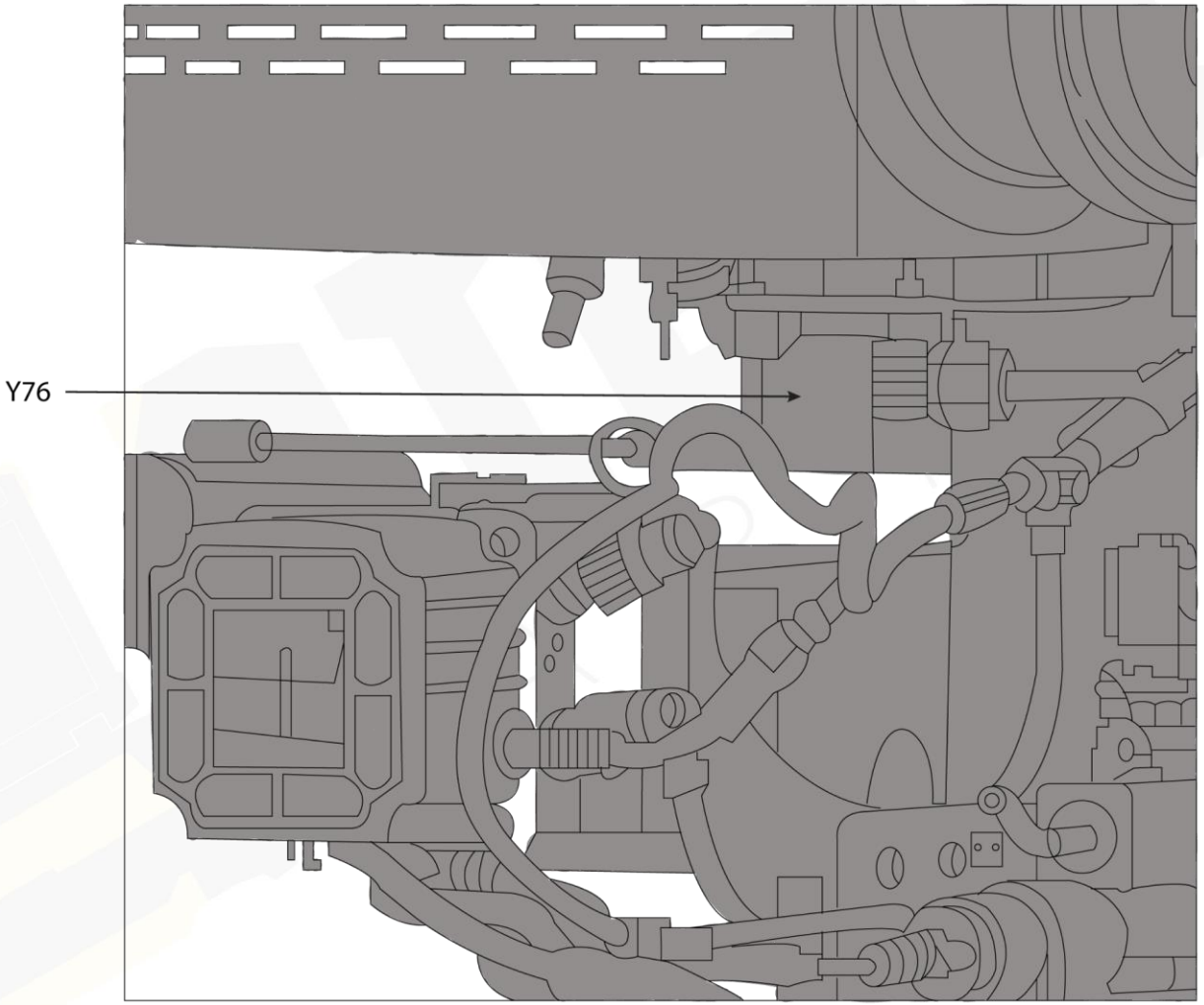
R29		
Harness : HTD_WIND_ROOF		
Part Number : 598AX140		
Pin Number	Circuit Number	Function
A	F28B1	Ignition Buss Feed

R29		
Harness : HTD_WIND_ROOF		
Part Number : 598AX140		
Pin Number	Circuit Number	Function
A	XC1C8	Cab Ground



Return To Table

Aftertreatment DPF Ignition Coil

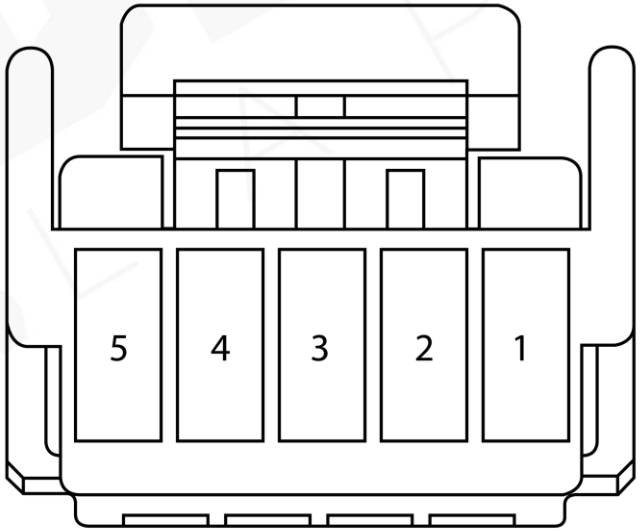


Return To Table

Aftertreatment DPF Regeneration Inhibit Switch

S111		
Harness : MAIN_CAB		
Part Number : 598AX223		
Pin Number	Circuit Number	Function
A	F67C	HVAC External Add on

S111		
Harness : MAIN_CAB		
Part Number : 598AX223		
Pin Number	Circuit Number	Function
A	F67B	HVAC External Add on



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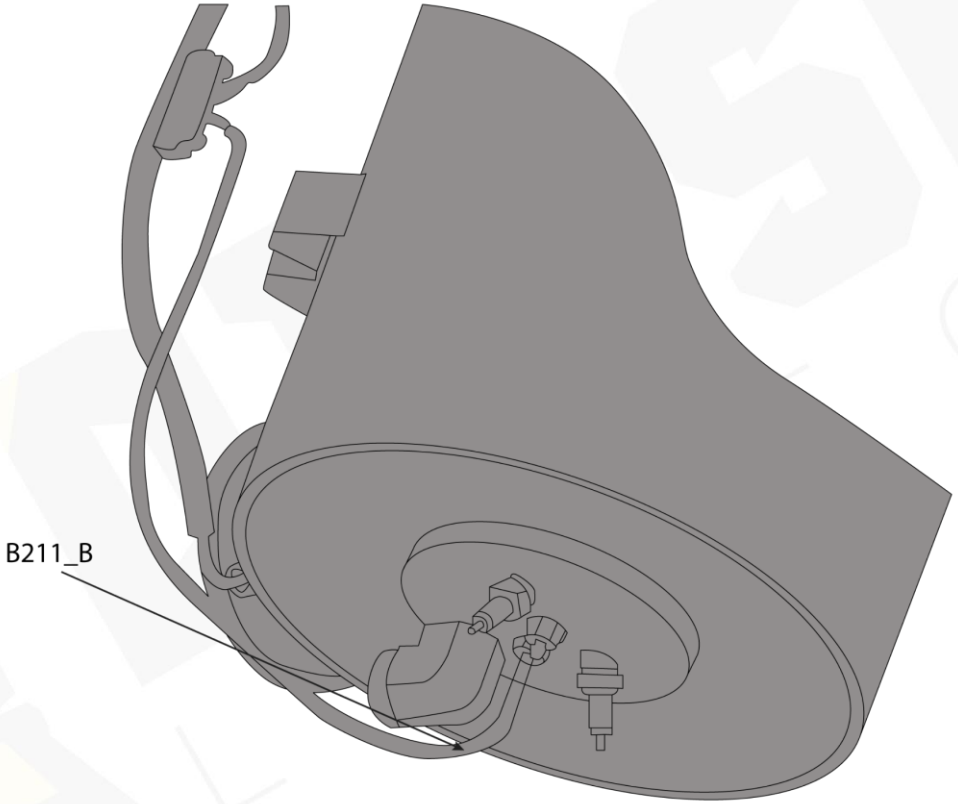
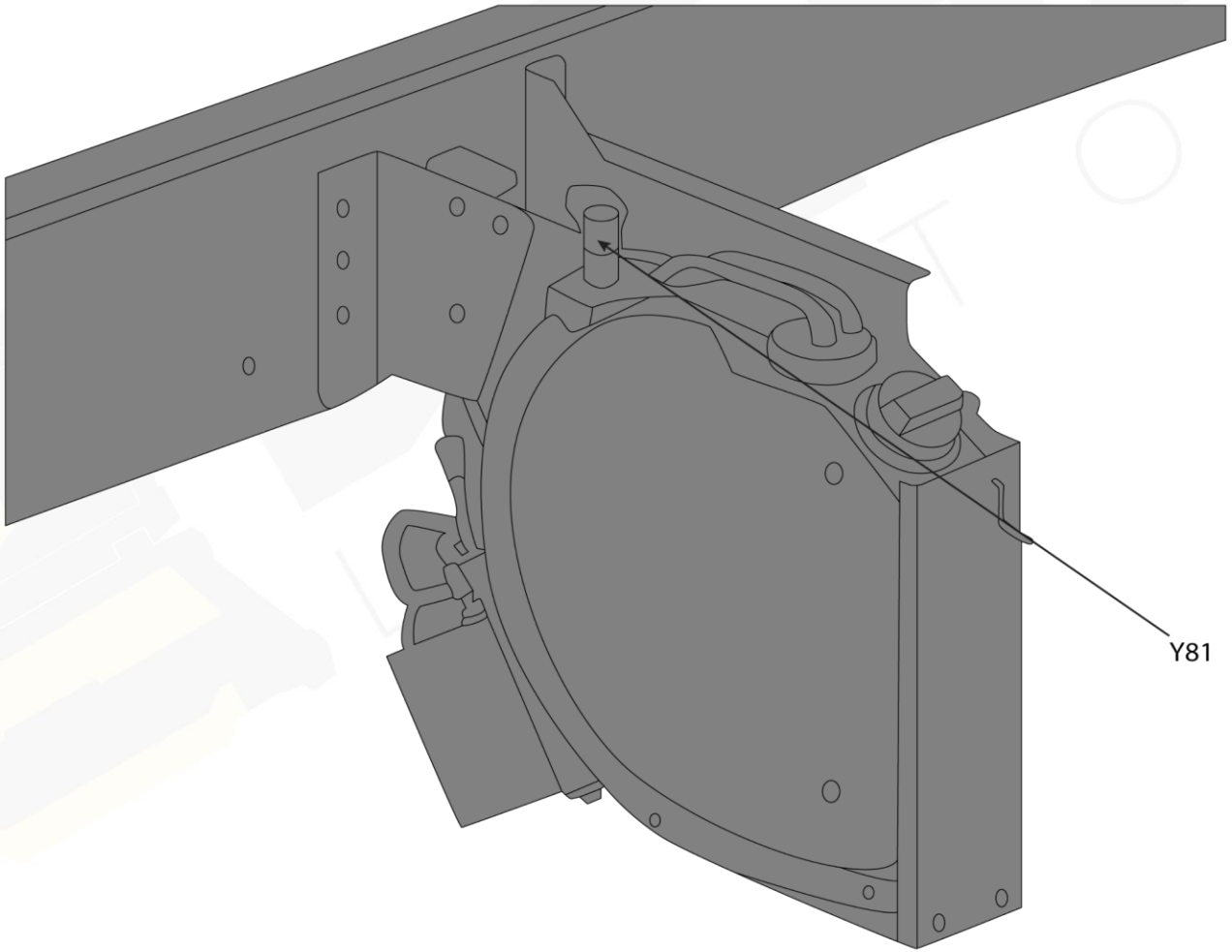
DPF Temperature Assembly



Return To Table

Aftertreatment Diesel Exhaust Fluid Tank Heater Valve

Y81		
Harness : UREA_TANK		
Part Number : 8159013		
Pin Number	Circuit Number	Function
1	EMA4A1	Starting Aid (Ether, Preheat, Glow Plug)
2	-	-
3	-	-
4	-	Starting Aid (Ether, Preheat, Glow Plug)



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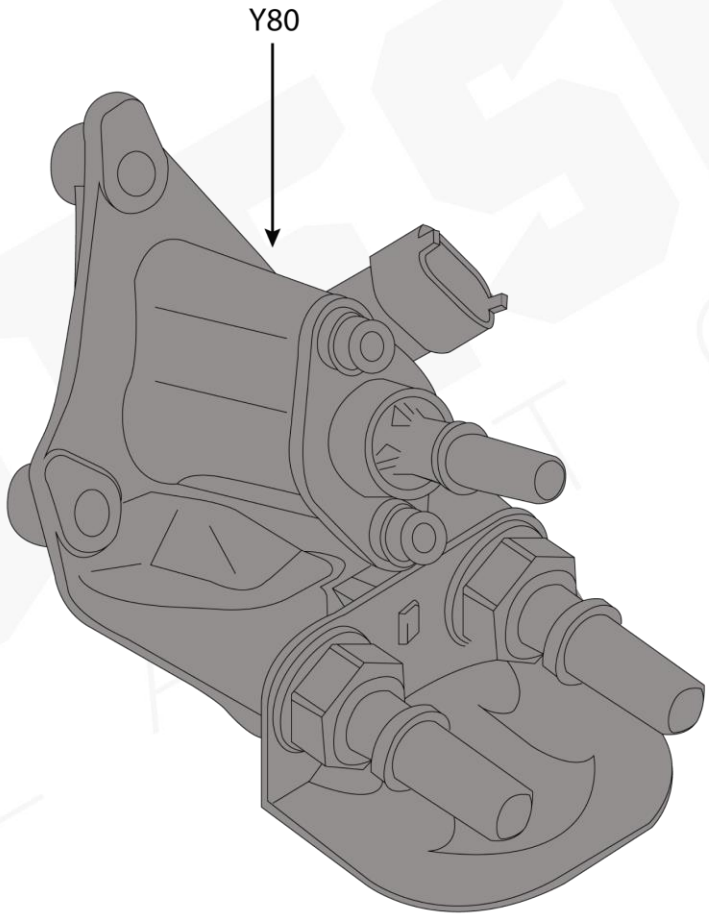
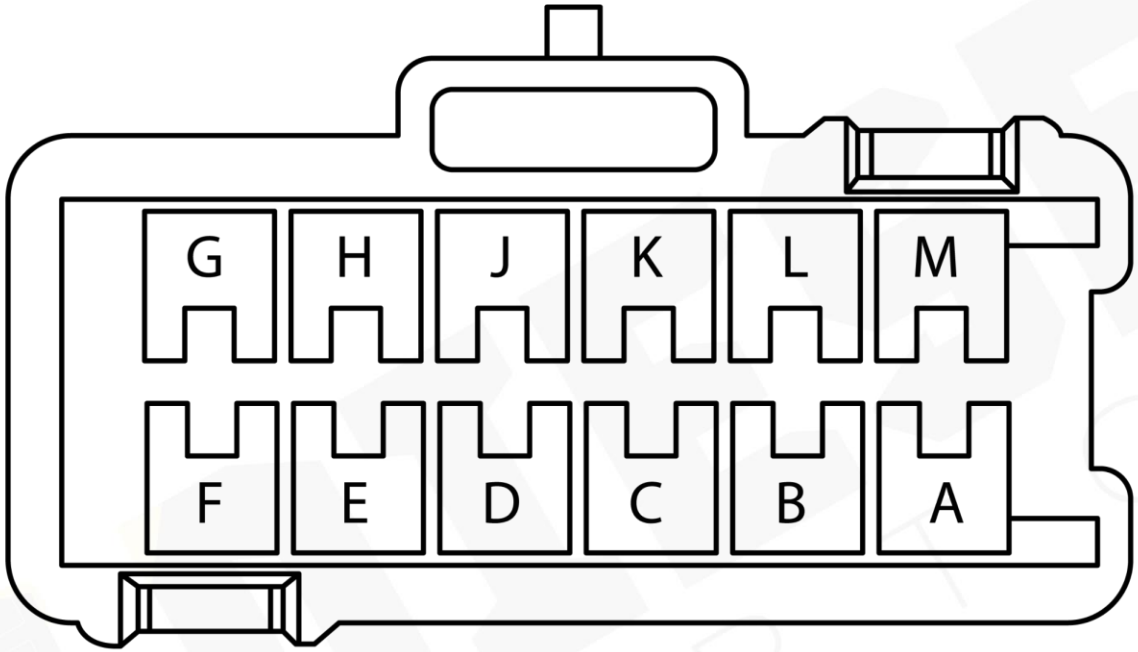
Aftertreatment DEF Dosing Valve

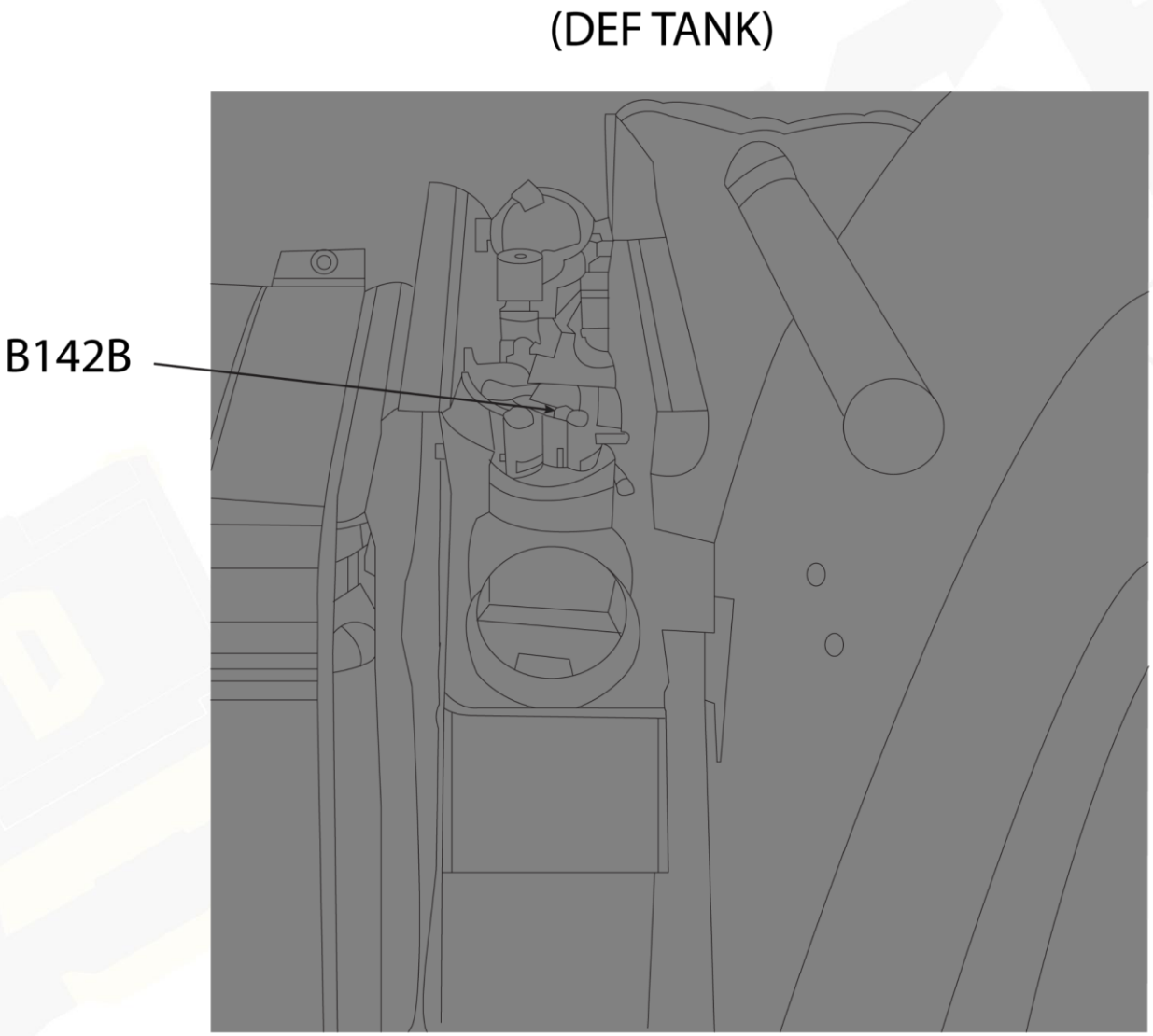


Return To Table

12 - WAY HARNESS
(X2_SP1.A)



X2_SP1_X2A6		
Harness : MAIN_CAB		
Part Number : 8086028		
Pin Number	Circuit Number	Function
A	X2A6	Cab Ground
B	X2A35	Cab Ground
C	X2A18	Cab Ground
D	-	-
E	X2A17	Cab Ground
F	X2A57	Cab Ground
G	X2A102	Cab Ground
H	X2A40	Cab Ground
J	X2A24	Cab Ground
K	X2A21	Cab Ground
L	X2A12	Cab Ground
M	X2A26	Cab Ground

Return To Table

Aftertreatment Diesel Exhaust Fluid Tank Level/Temperature Sensor