

REED

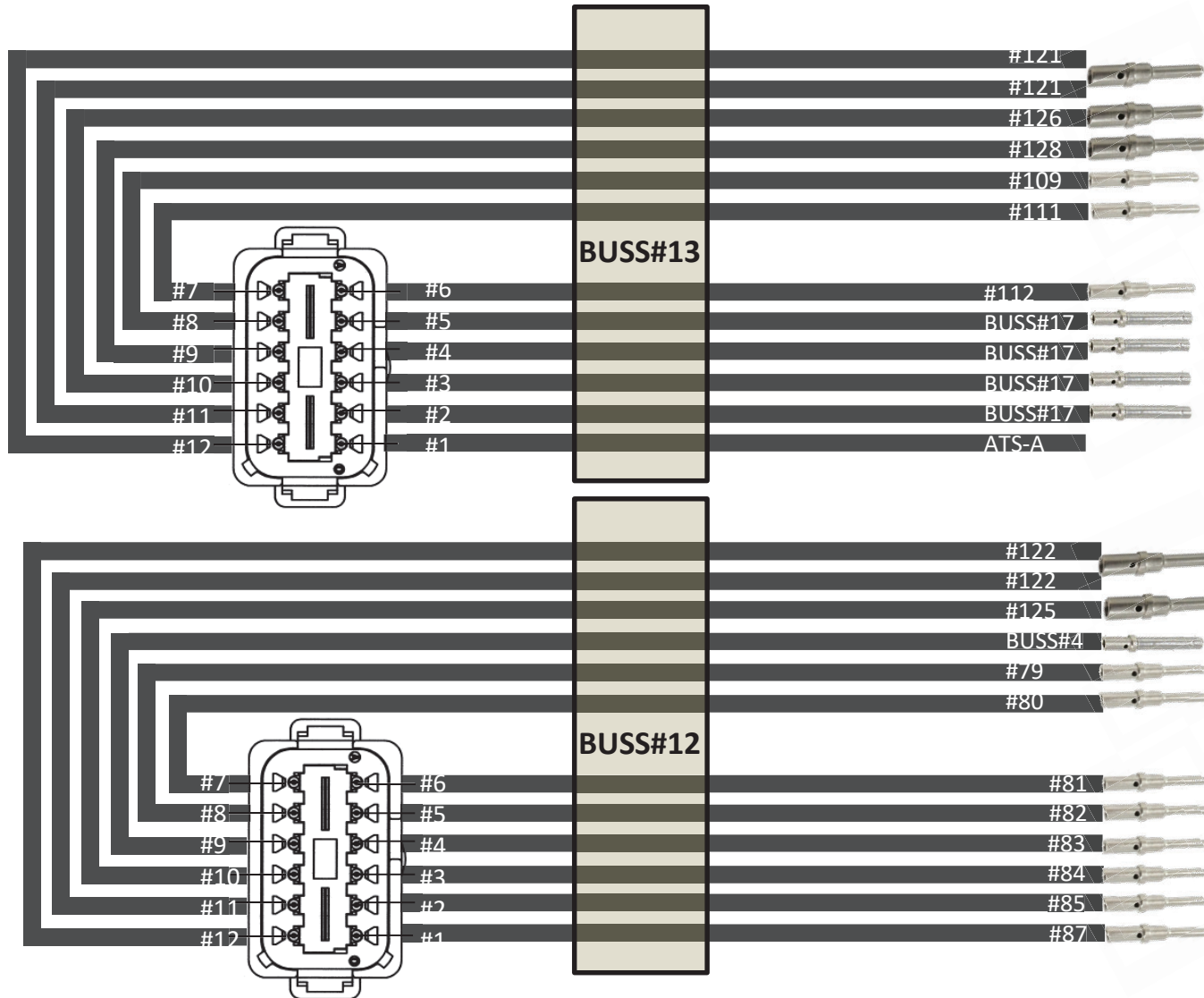
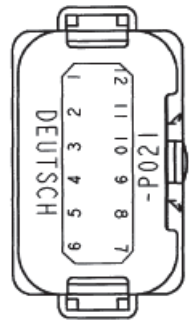
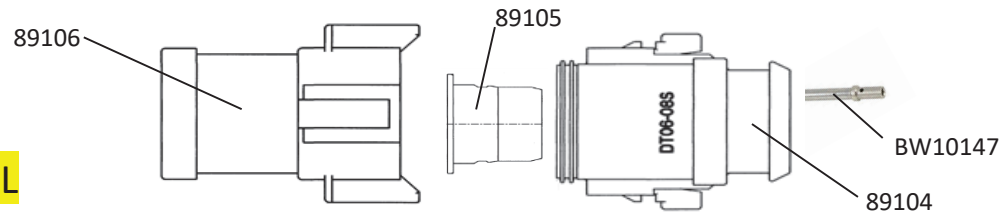
89334-T4 C-SERIES CONTROL PANEL



89113 PCL WIRING HARNESS SCHEMATIC

GROUND BUSSES

CUT ALL WIRES 4FT 18 AWG TXL



128 PLUG

87807



128 PLUG

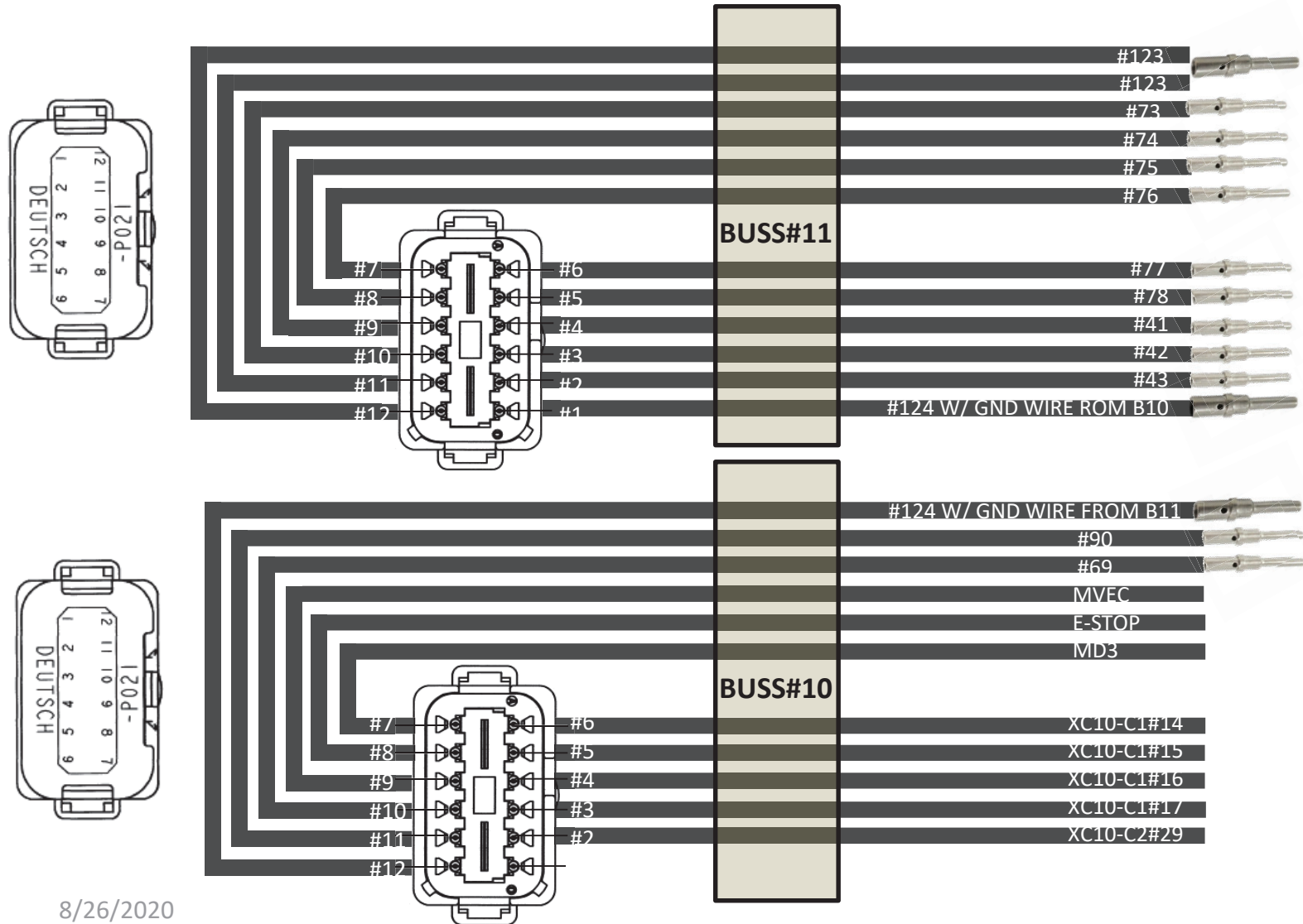
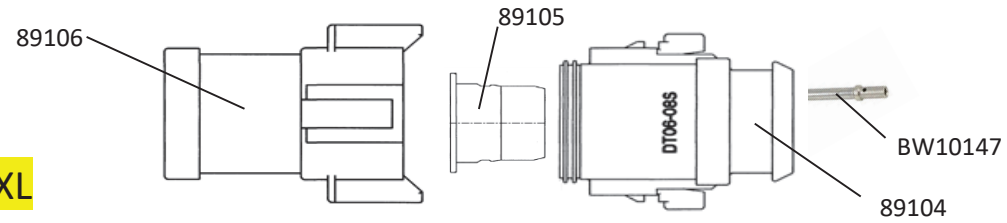
88958

8/26/2020

REV-Q

GROUND BUSSES

CUT ALL WIRES 4FT 18 AWG TXL



128 PLUG

87807



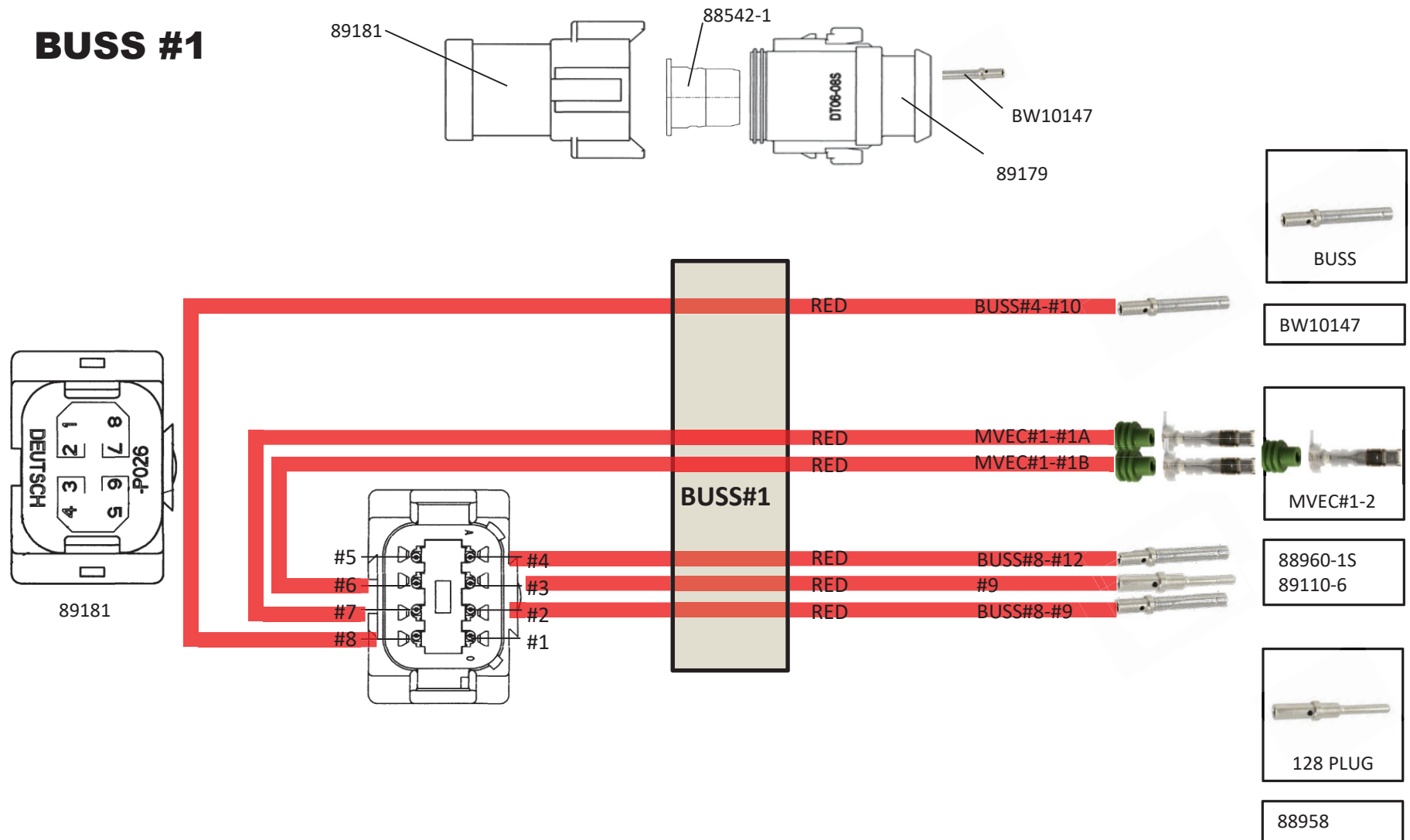
128 PLUG

88958

8/26/2020

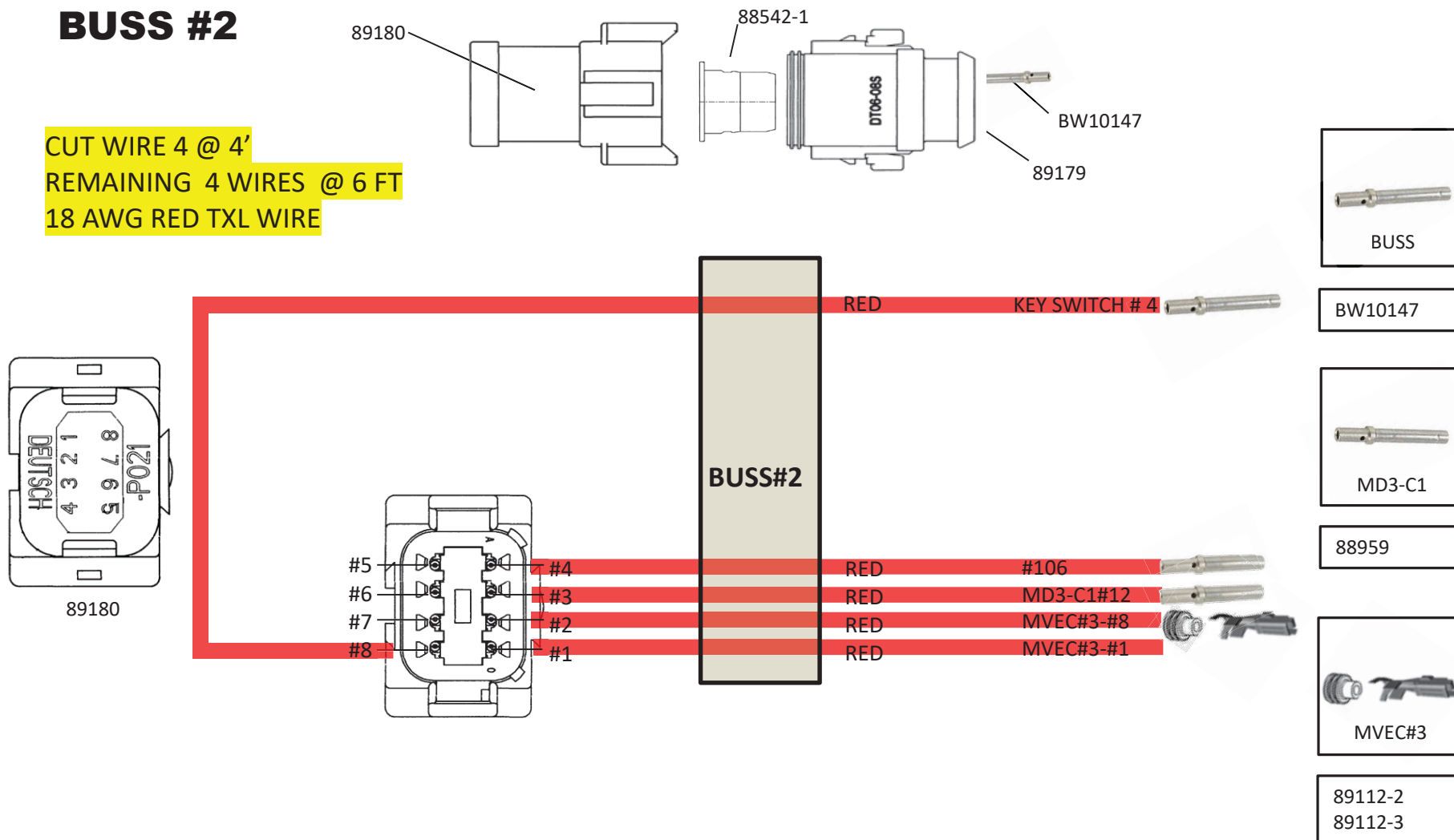
REV-Q

BUSS #1

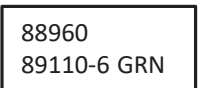
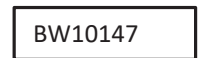
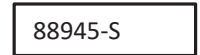
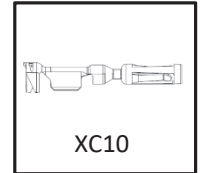
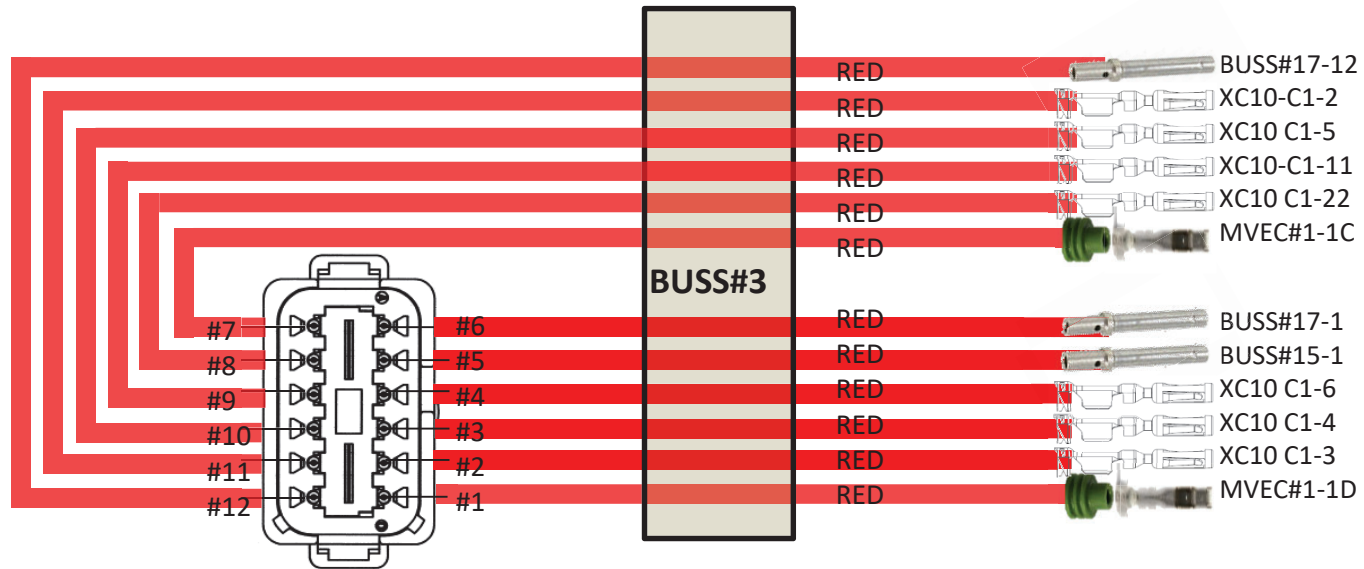
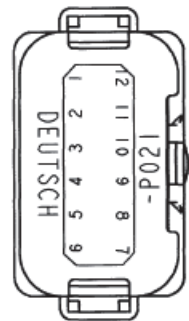
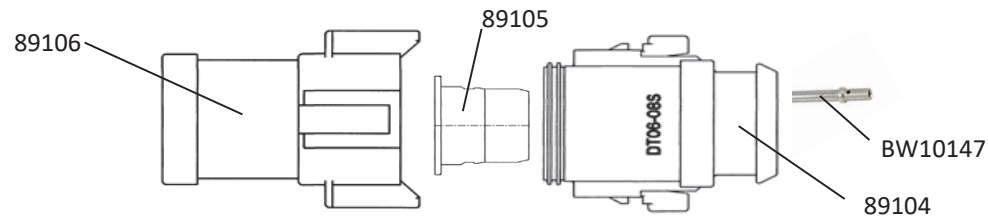


BUSS #2

CUT WIRE 4 @ 4'
REMAINING 4 WIRES @ 6 FT
18 AWG RED TXL WIRE

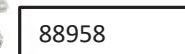
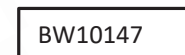
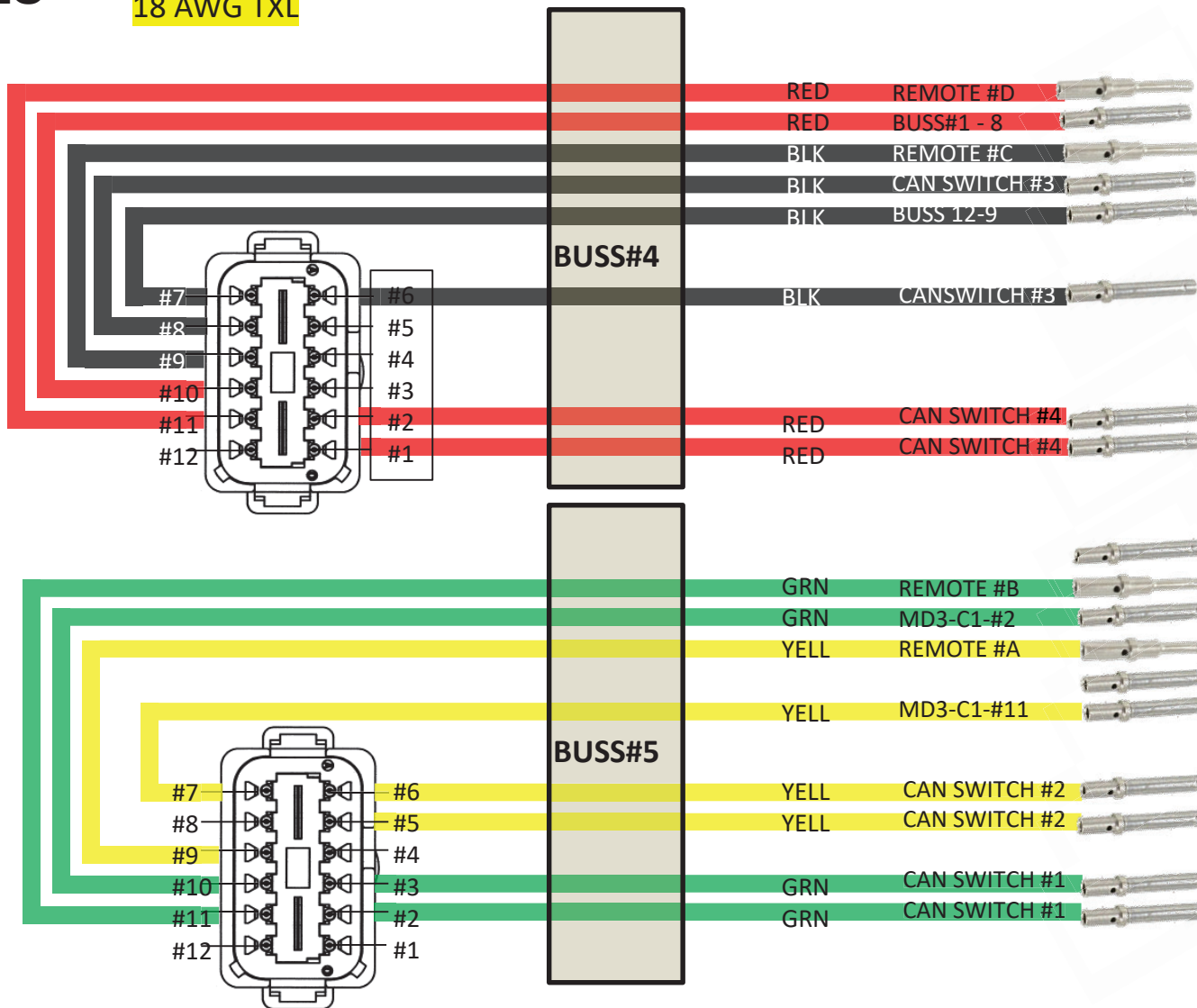
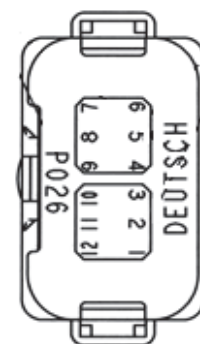
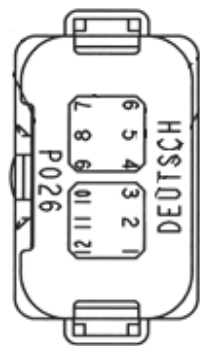


BUSS #3

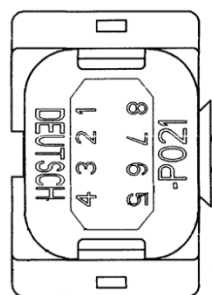
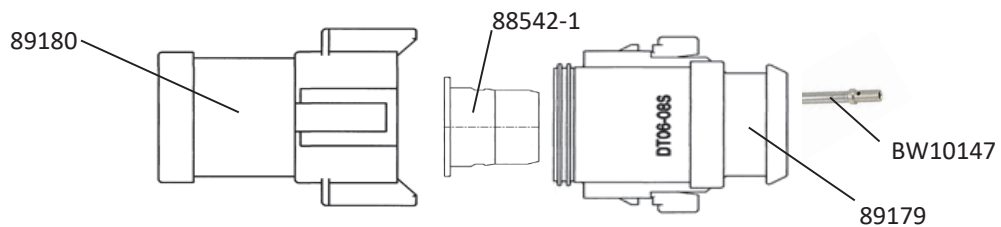


BUSS #4 **BUSS #5** **CAN HI/LO**

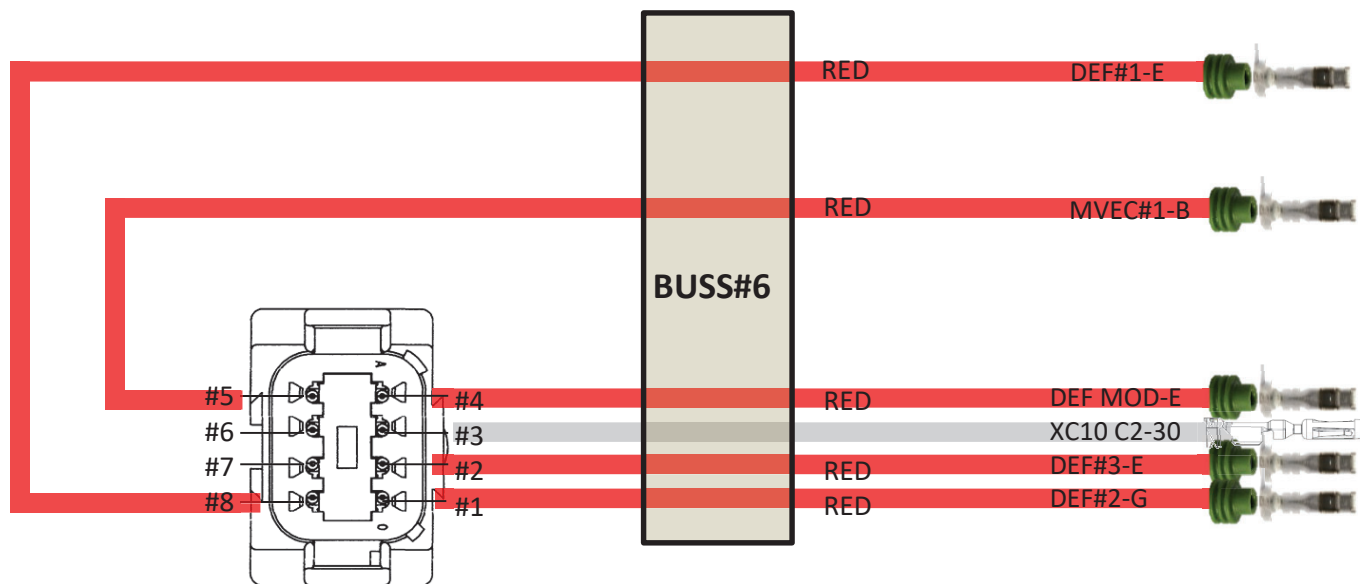
CUT ALL WIRES 4FT
 18 AWG TXL



BUSS #6



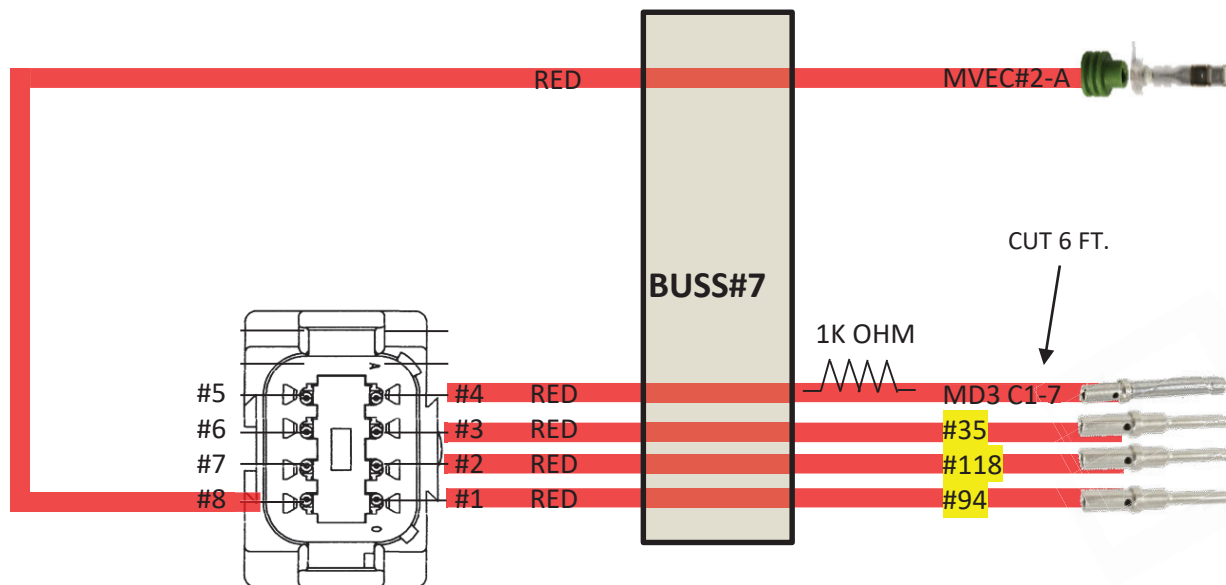
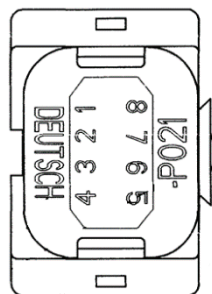
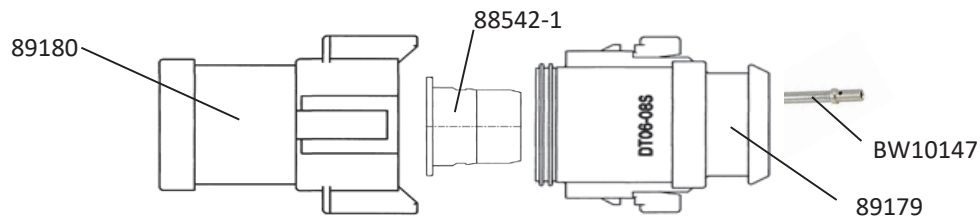
89180



88960-1S
89110-6 GRN

BUSS #7

WIRES 1,2, & 3 CUT @4FT
18AWG RED TXL WIRE

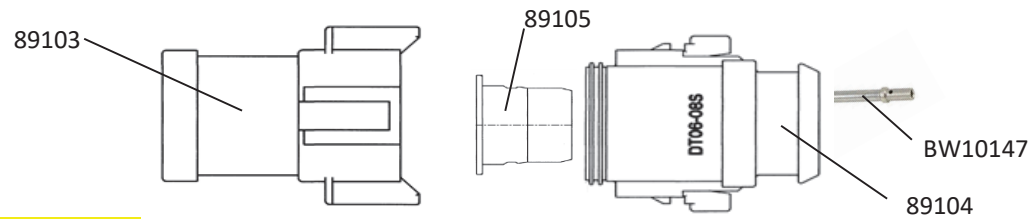


88960
89110-6 GRN

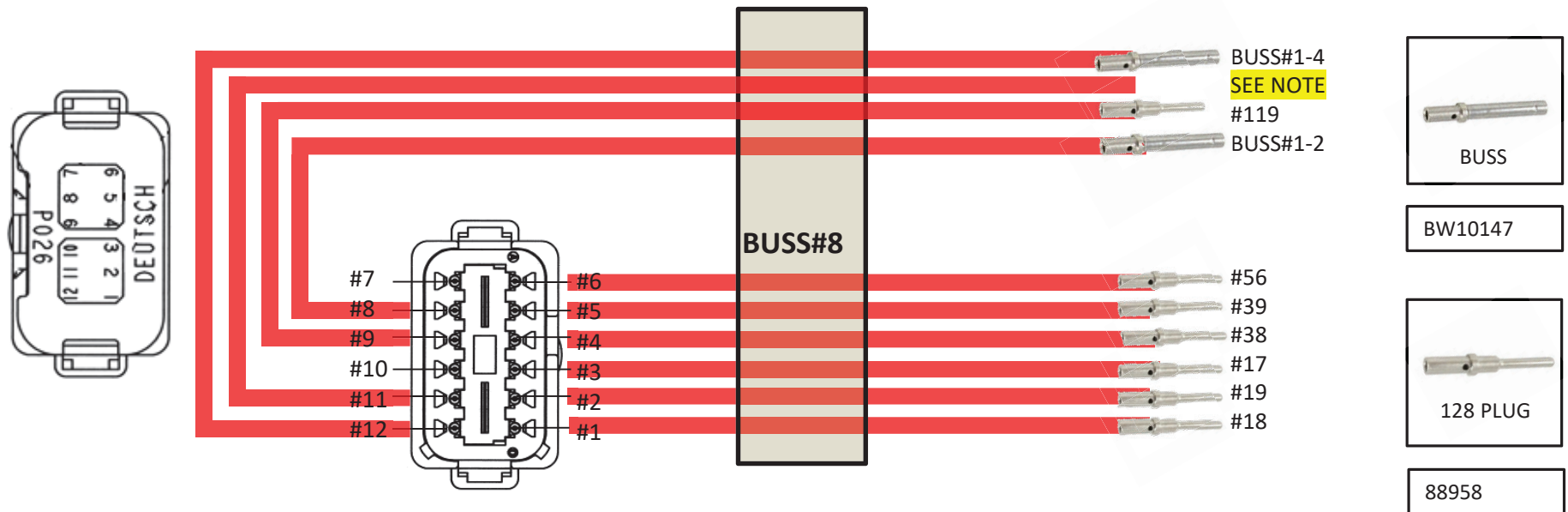


88958

BUSS #8

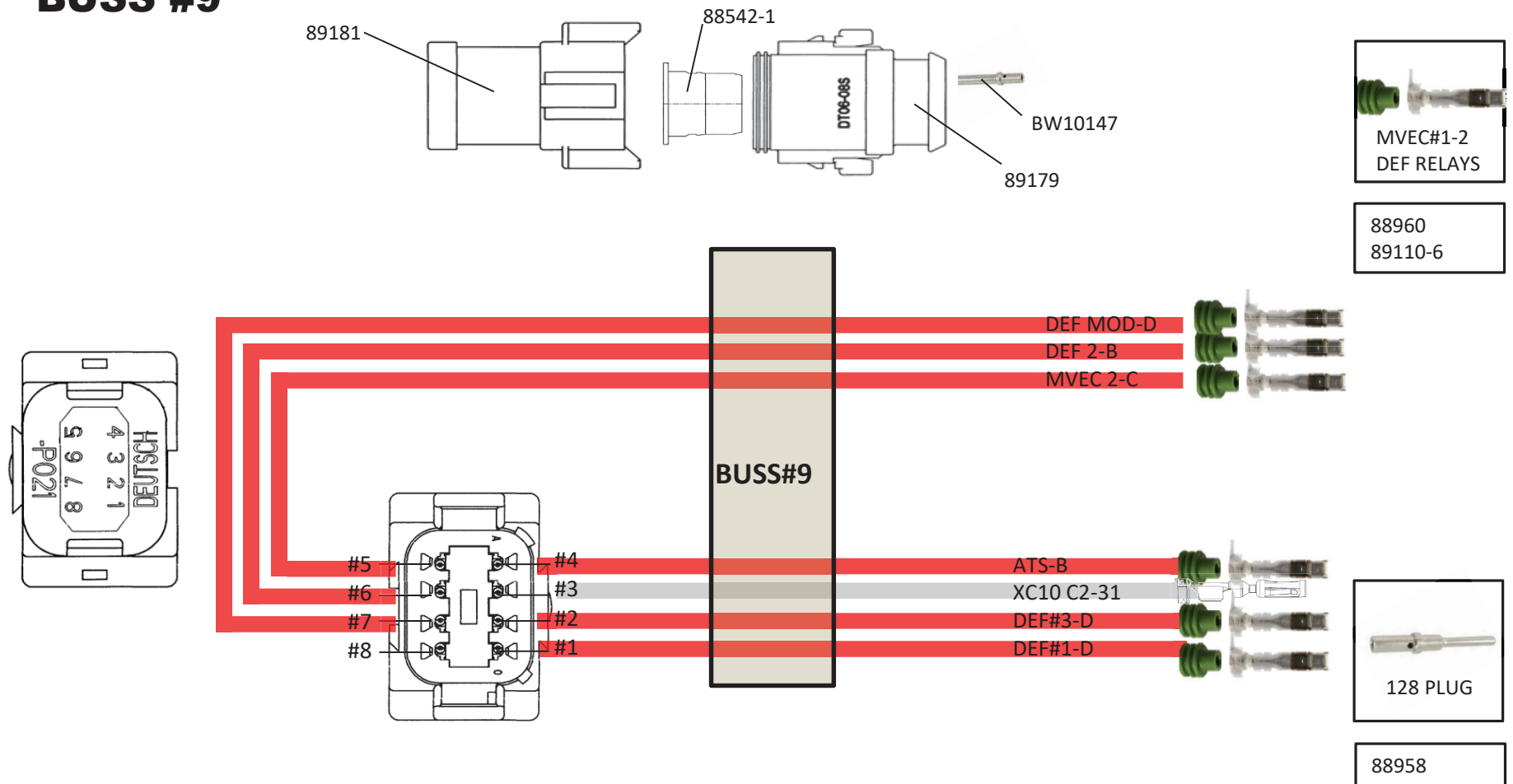


CUT ALL WIRES EXCEPT PIN 11 TO 4FT
18 AWG RED TXL WIRE

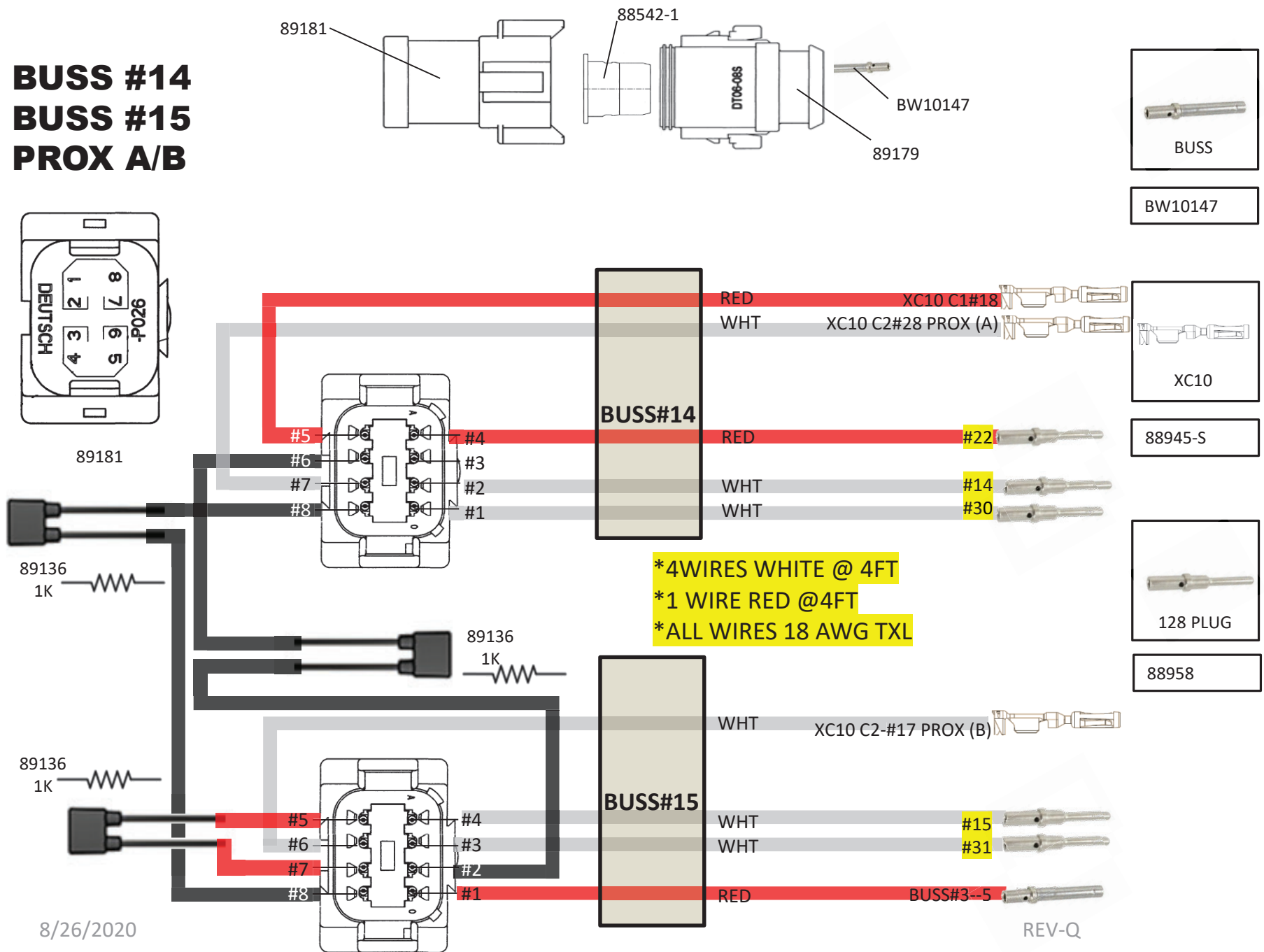


FOR PIN 11
T3: PIN TO TIER3 – 3
T4: PIN TO ATS - G

BUSS #9



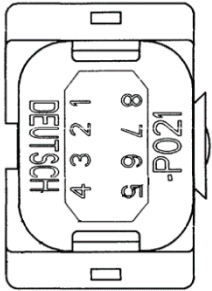
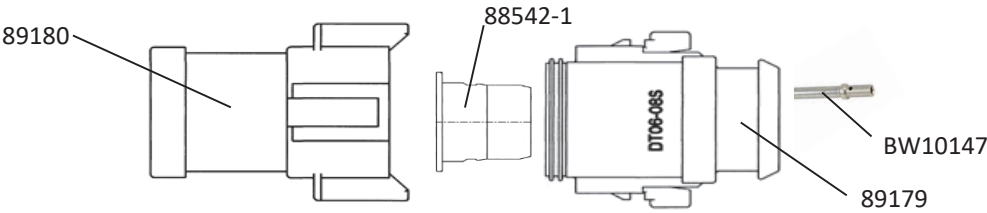
BUSS #14 **BUSS #15** **PROX A/B**



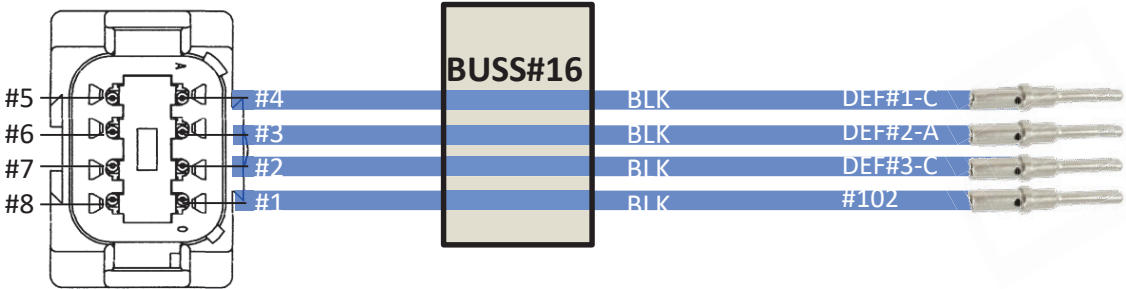
8/26/2020

REV-Q

BUSS #16



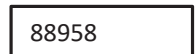
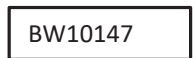
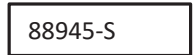
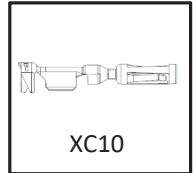
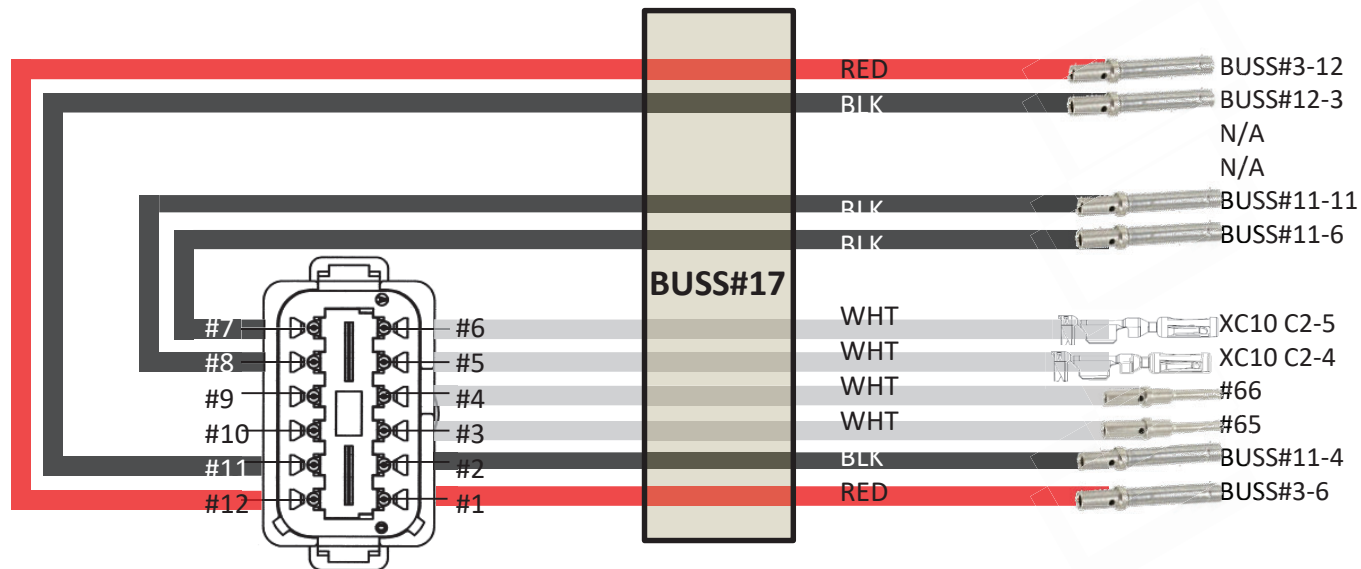
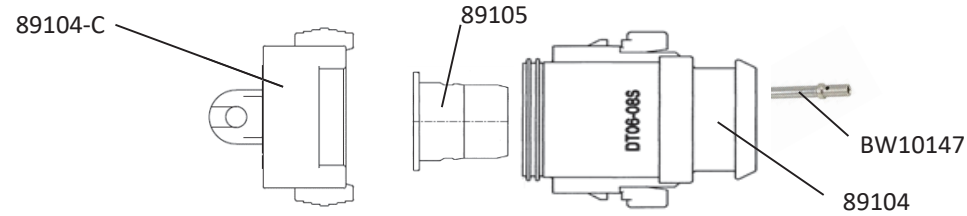
89180



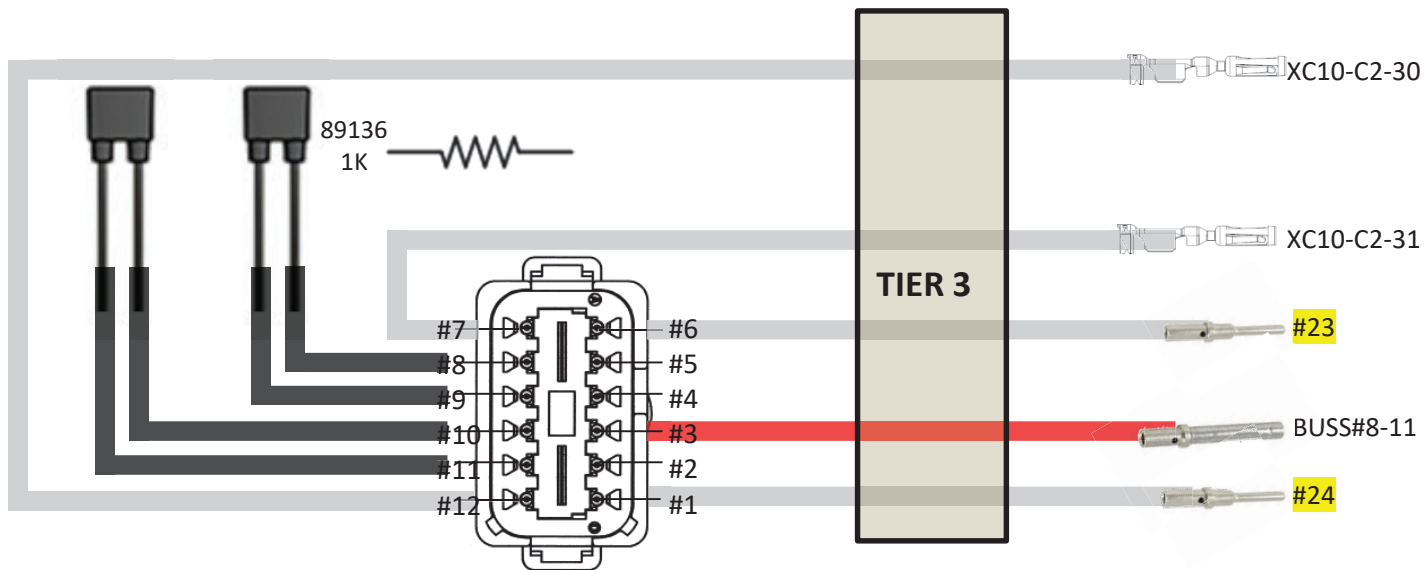
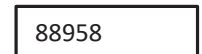
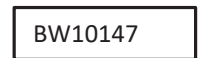
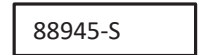
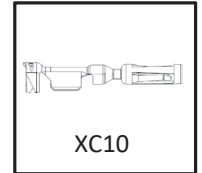
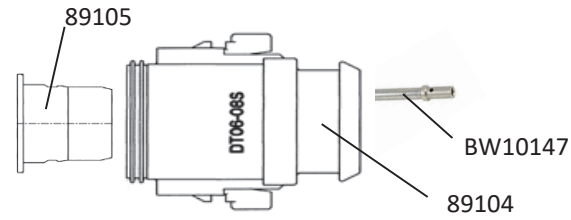
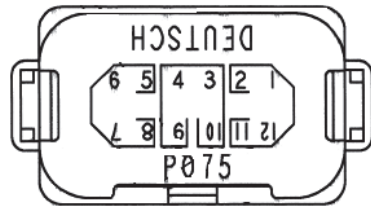
128 PLUG

88958

PLUG #17 **OPTION VOLUME**

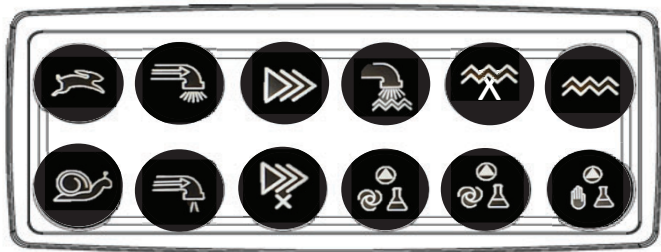


TIER 3



WIRES 1 & 6 @ 4 FT
18 AWG WHT TXL

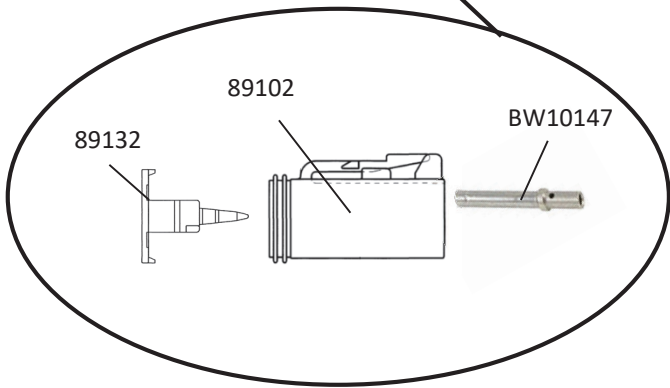
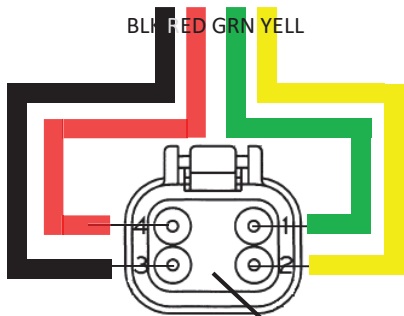
CAN/SWITCHES



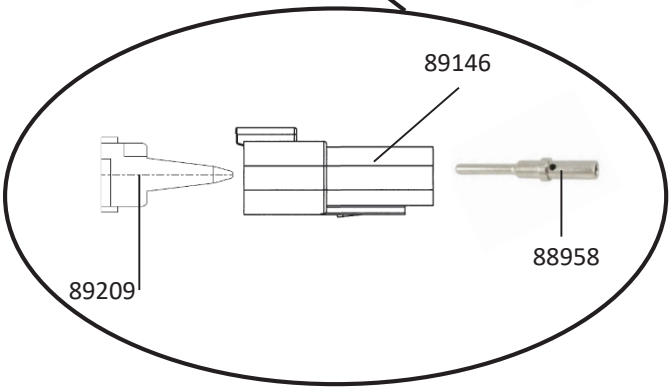
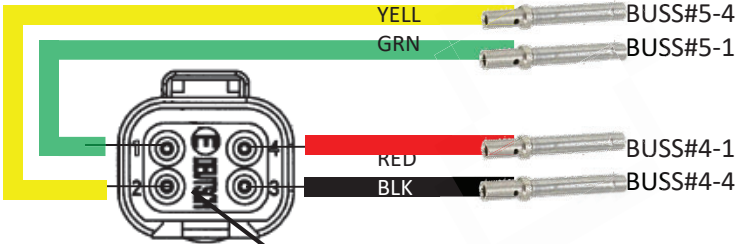
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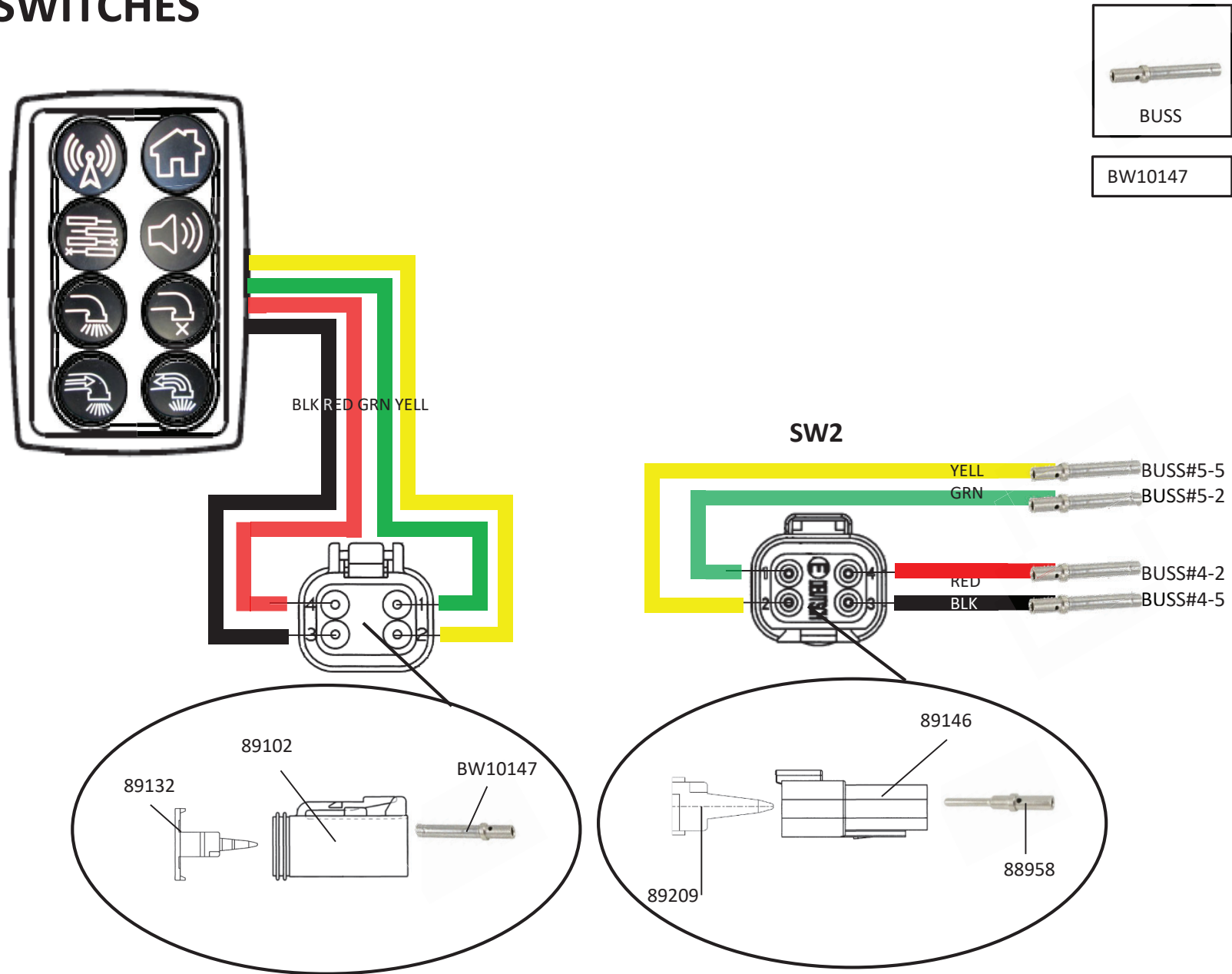
BW10147



SW1



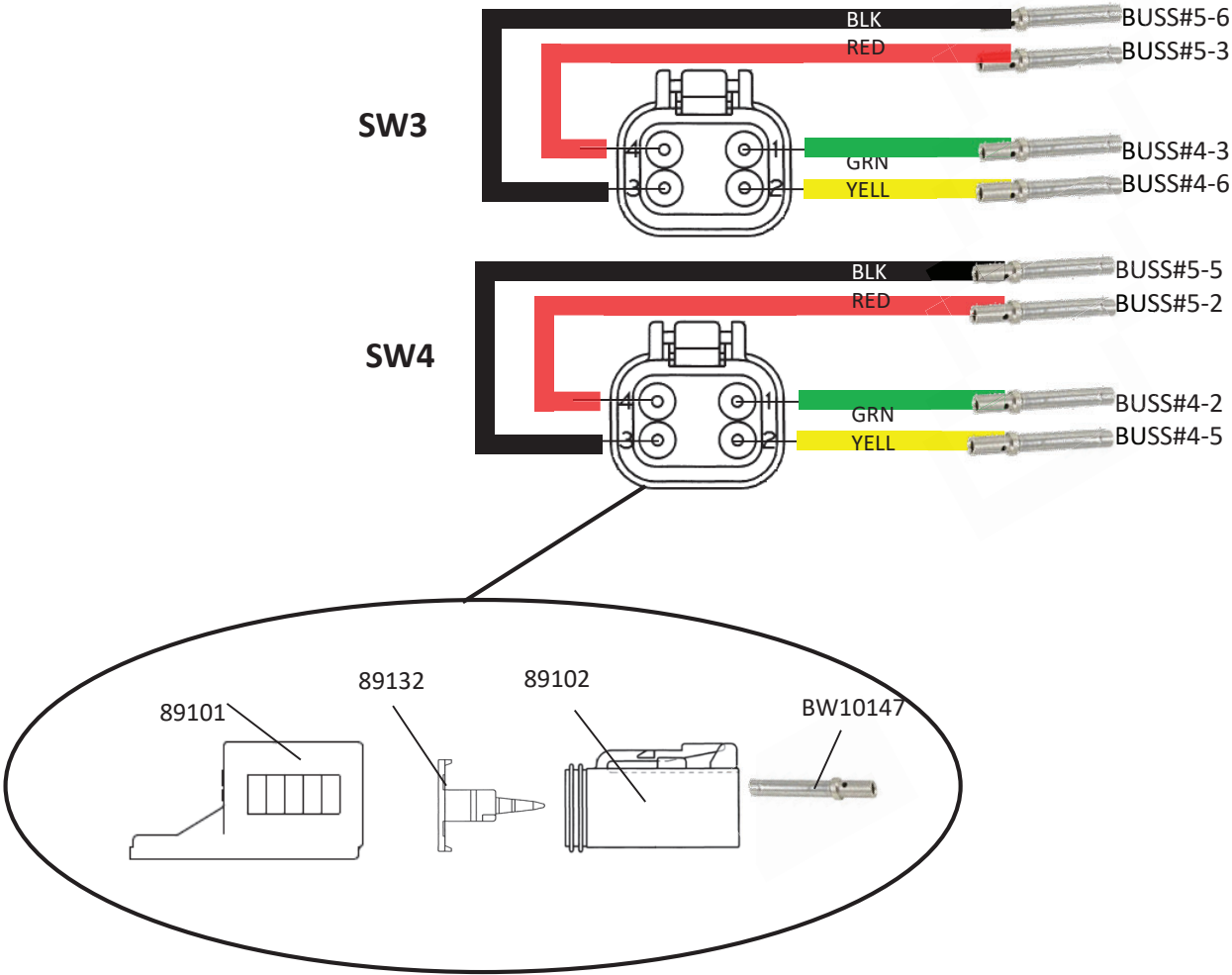
CAN/SWITCHES



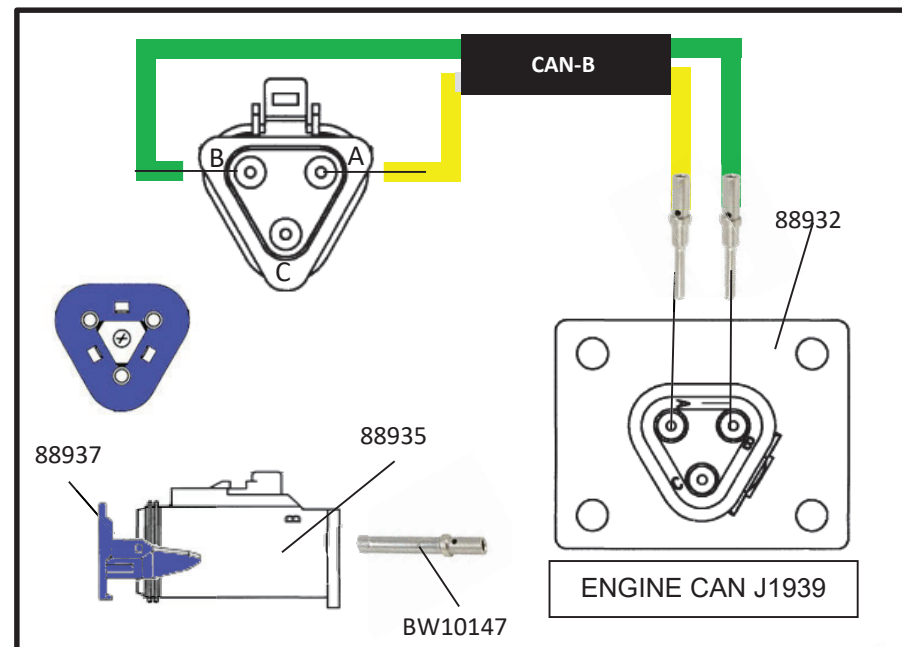
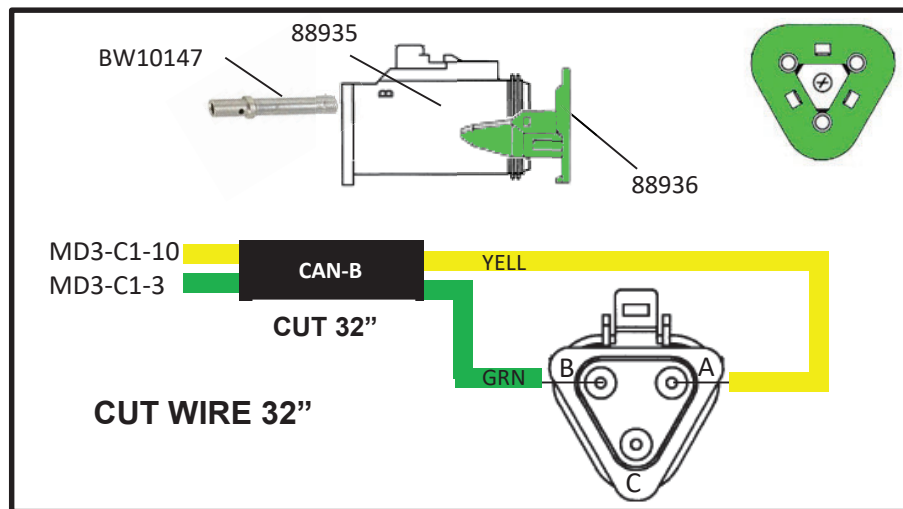
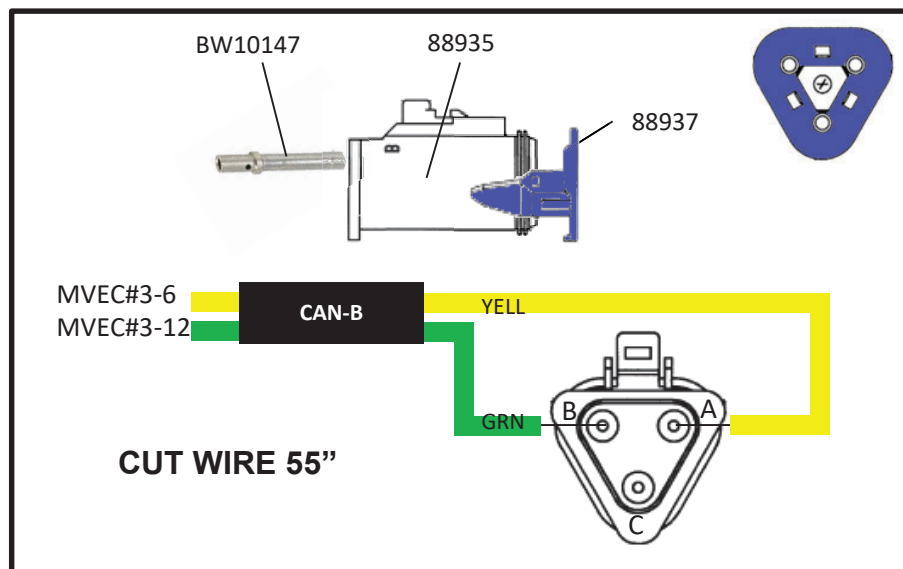
CAN/SWITCHES SPARE



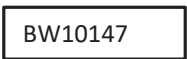
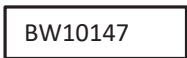
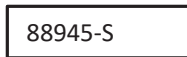
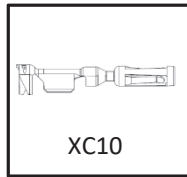
BW10147



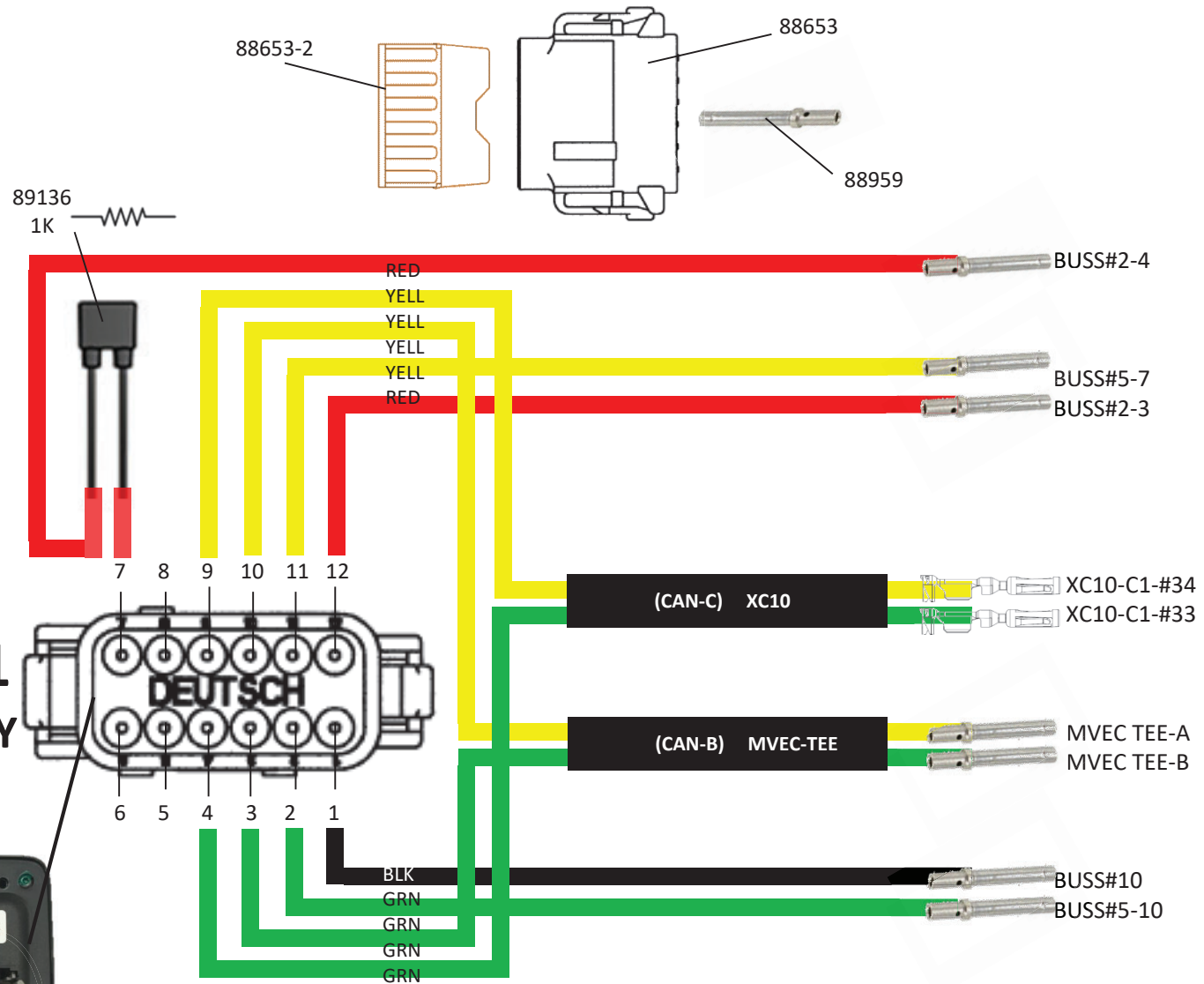
CAN/SWITCHES SPARE



MD3



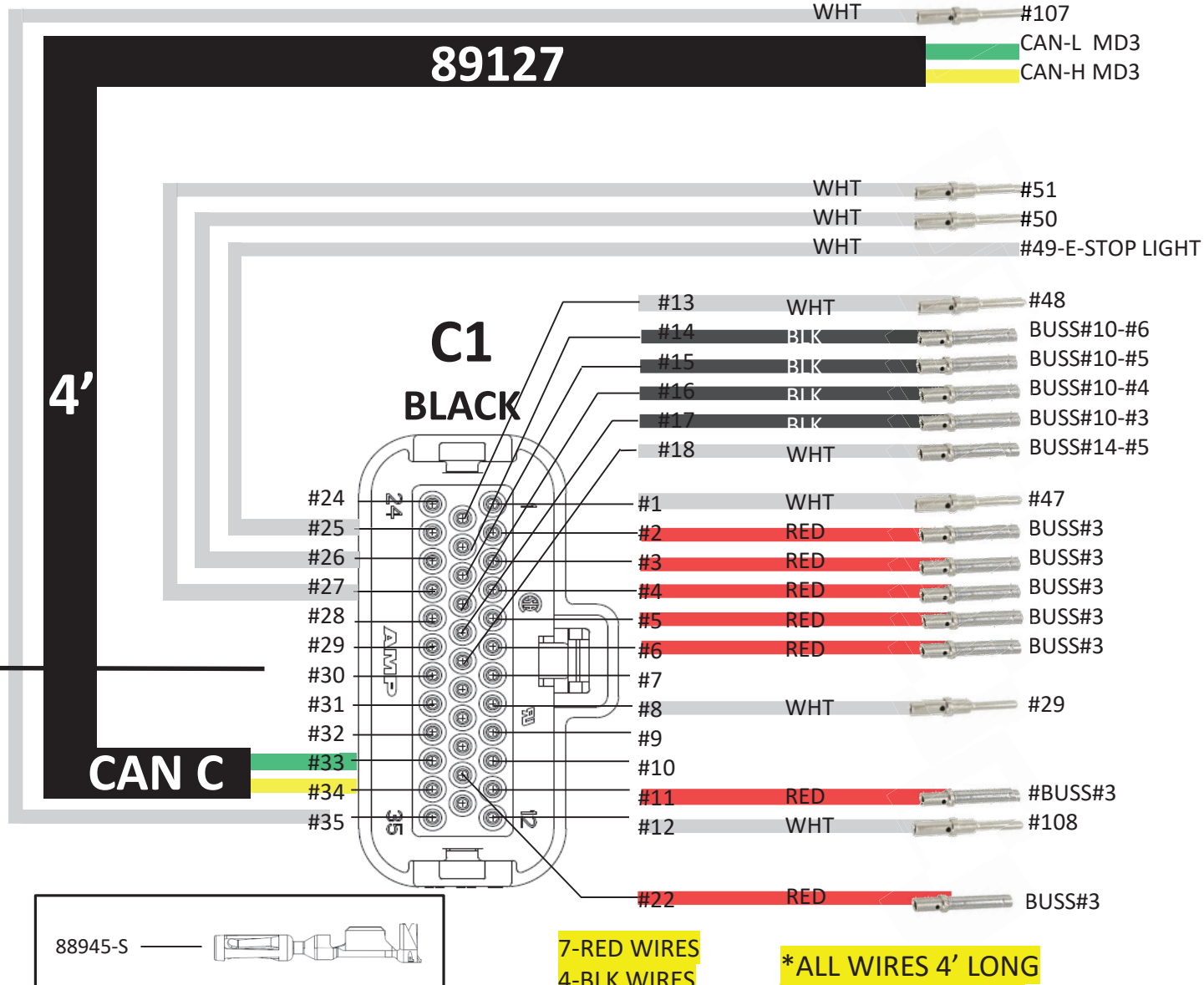
C1
GRY



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REV-Q

XC10



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BW10147

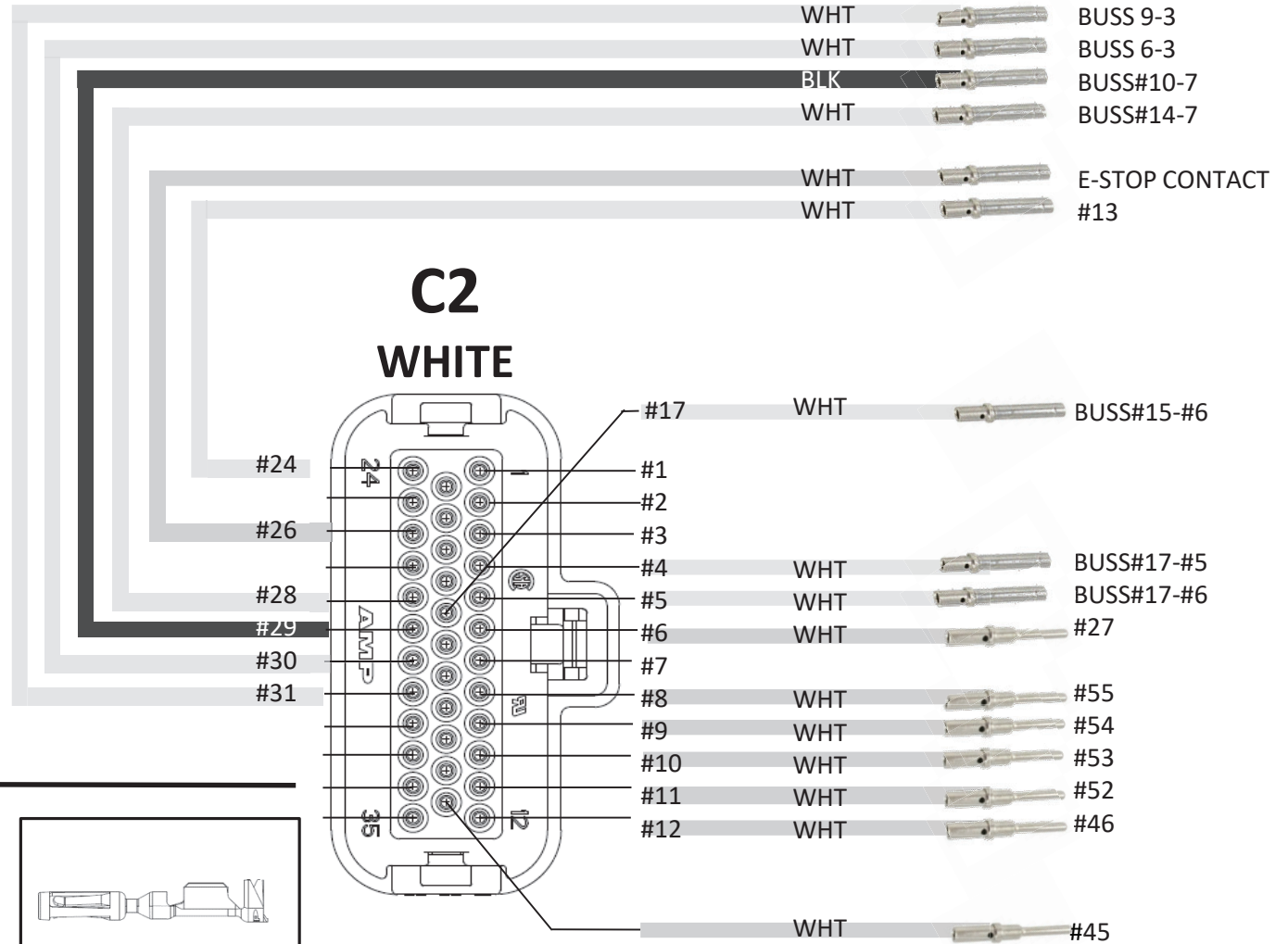
8/26/2020

7-RED WIRES
 4-BLK WIRES
 9-WHITE WIRES

*ALL WIRES 4' LONG
 *18 AWG TXL WIRE

REV-Q

XC10

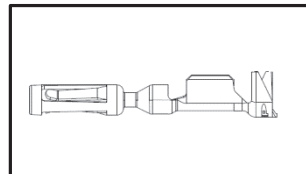


128 PLUG

88958



BW10147



88945-S

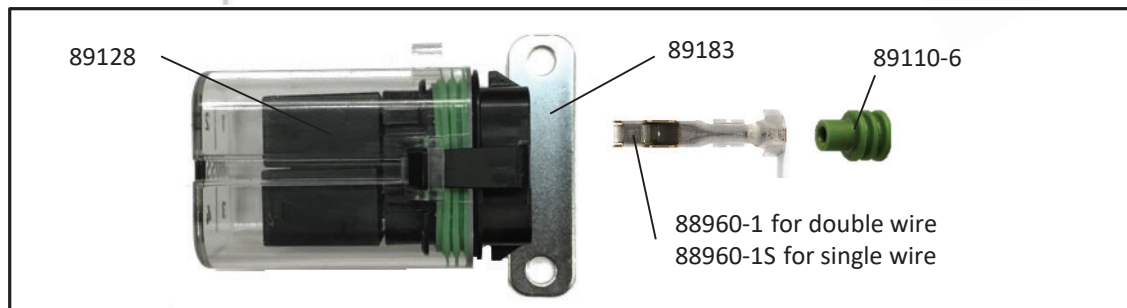
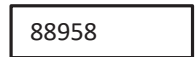
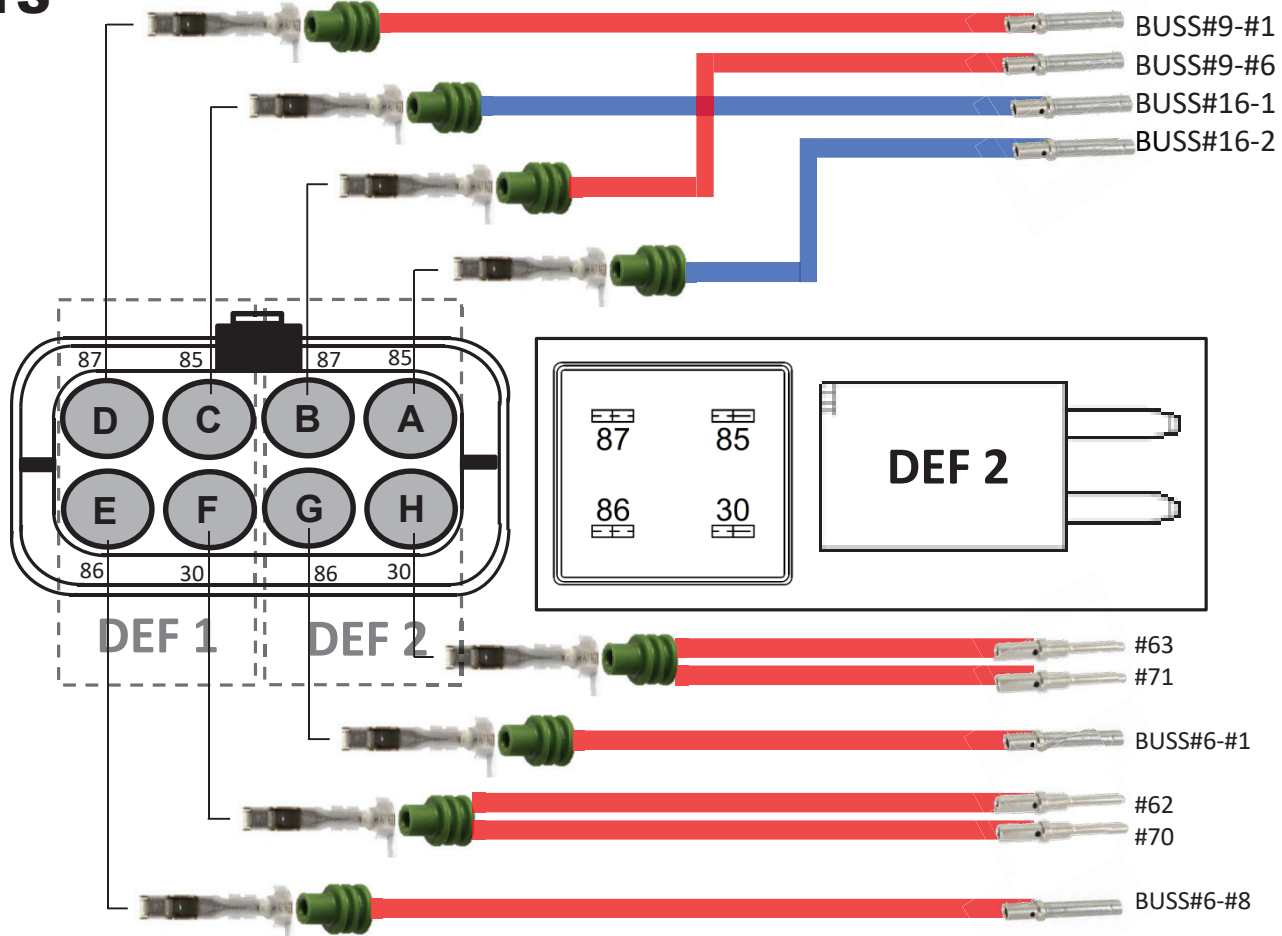
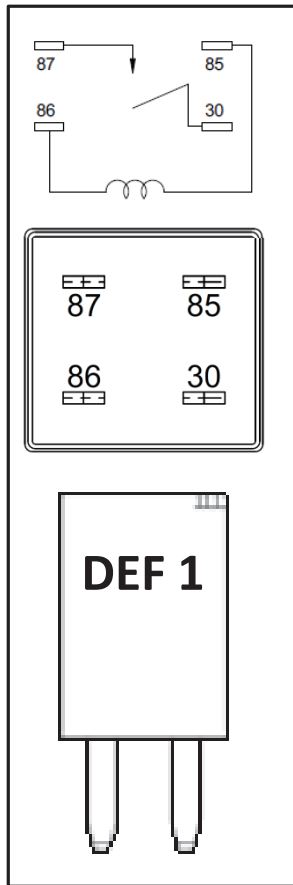
1-BLK WIRE
13- WHT WIRES

*ALL WIRES 4' LONG
*18 AWG TXL WIRE

DEF RELAYS

DEF 1

DEF 2

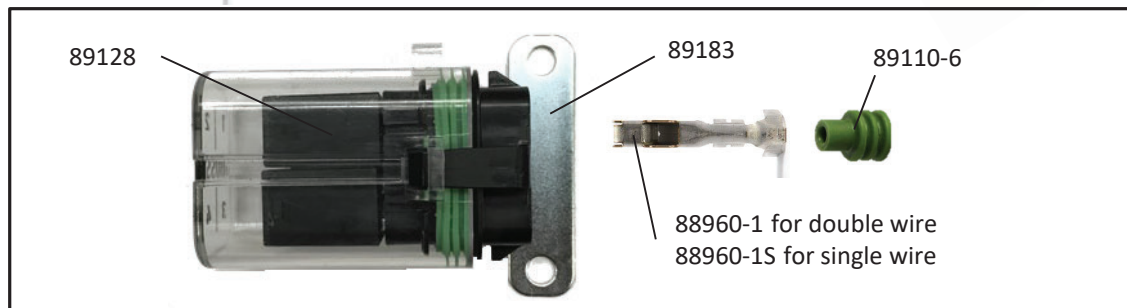
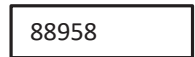
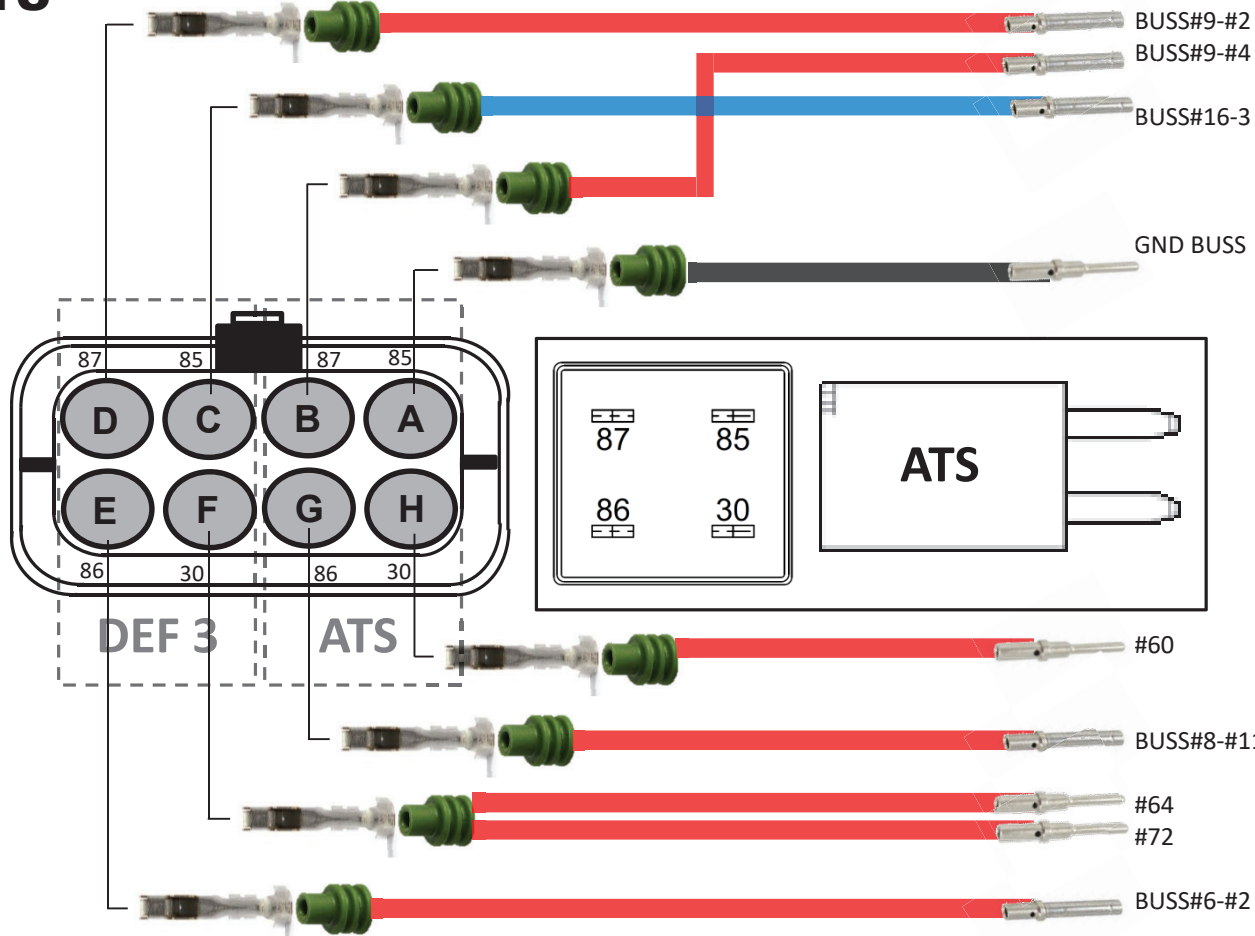
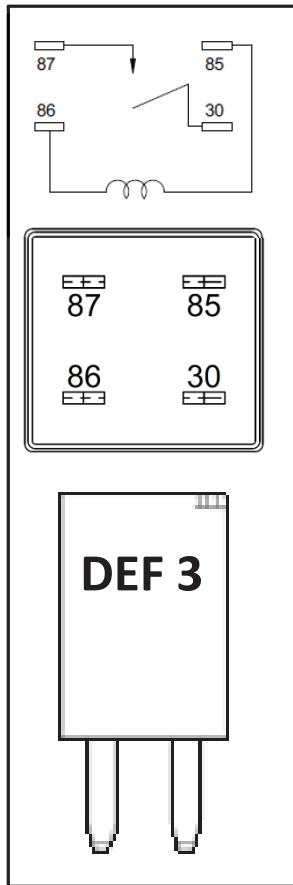


**CUT ALL WIRES
4FT 18 AWG TXL**

DEF RELAYS

DEF 3

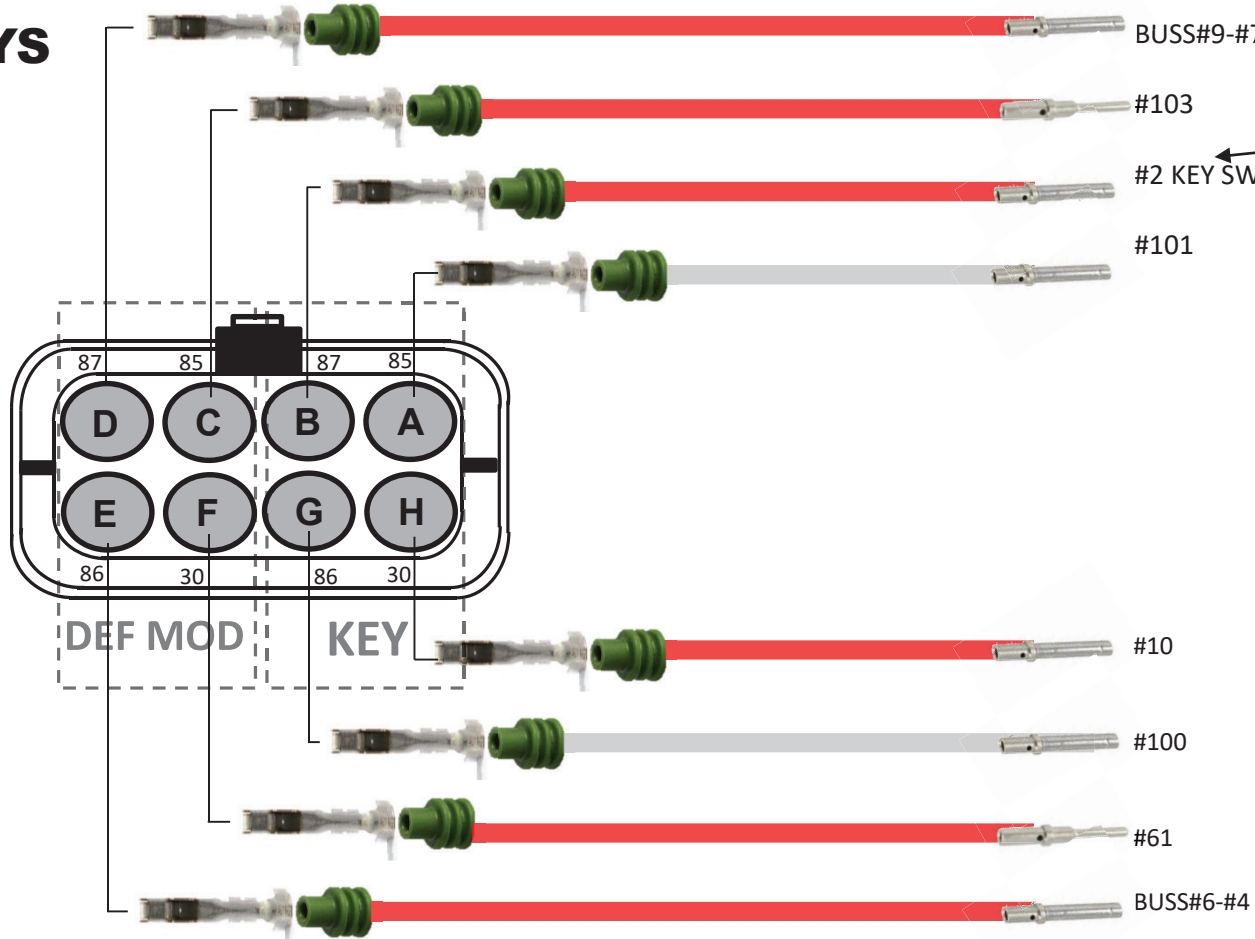
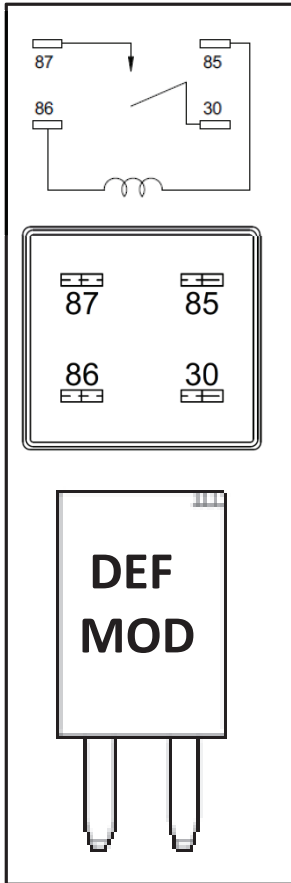
ATS



**CUT ALL WIRES
4FT 18 AWG TXL**

DEF RELAYS

DEF MOD



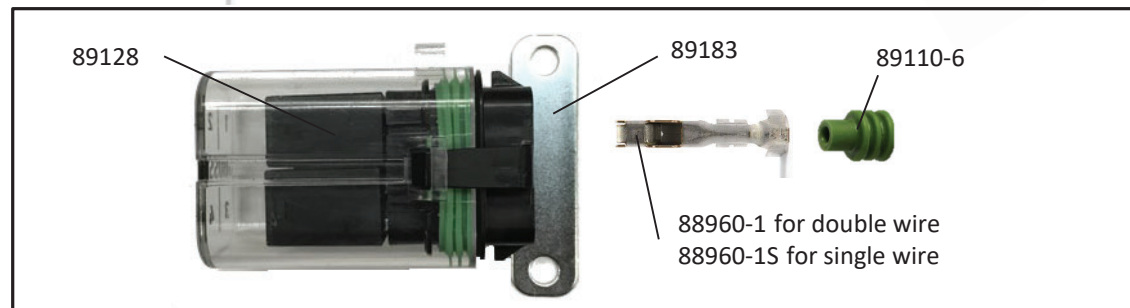
CUT WIRES
6FT 18 AWG TXL



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CUT ALL WIRES
4FT 18 AWG TXL



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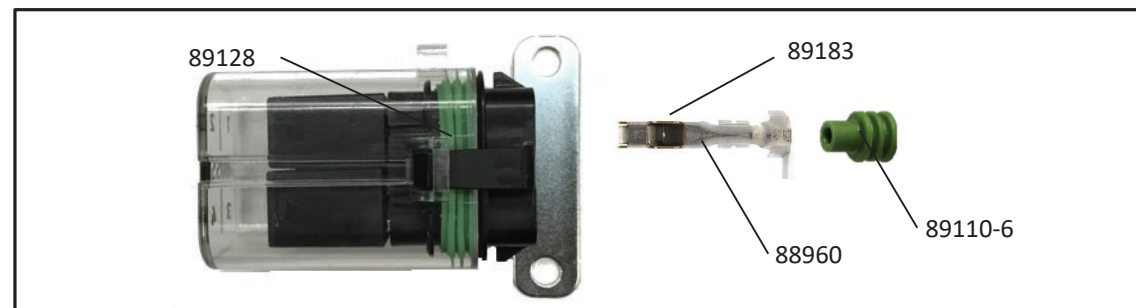
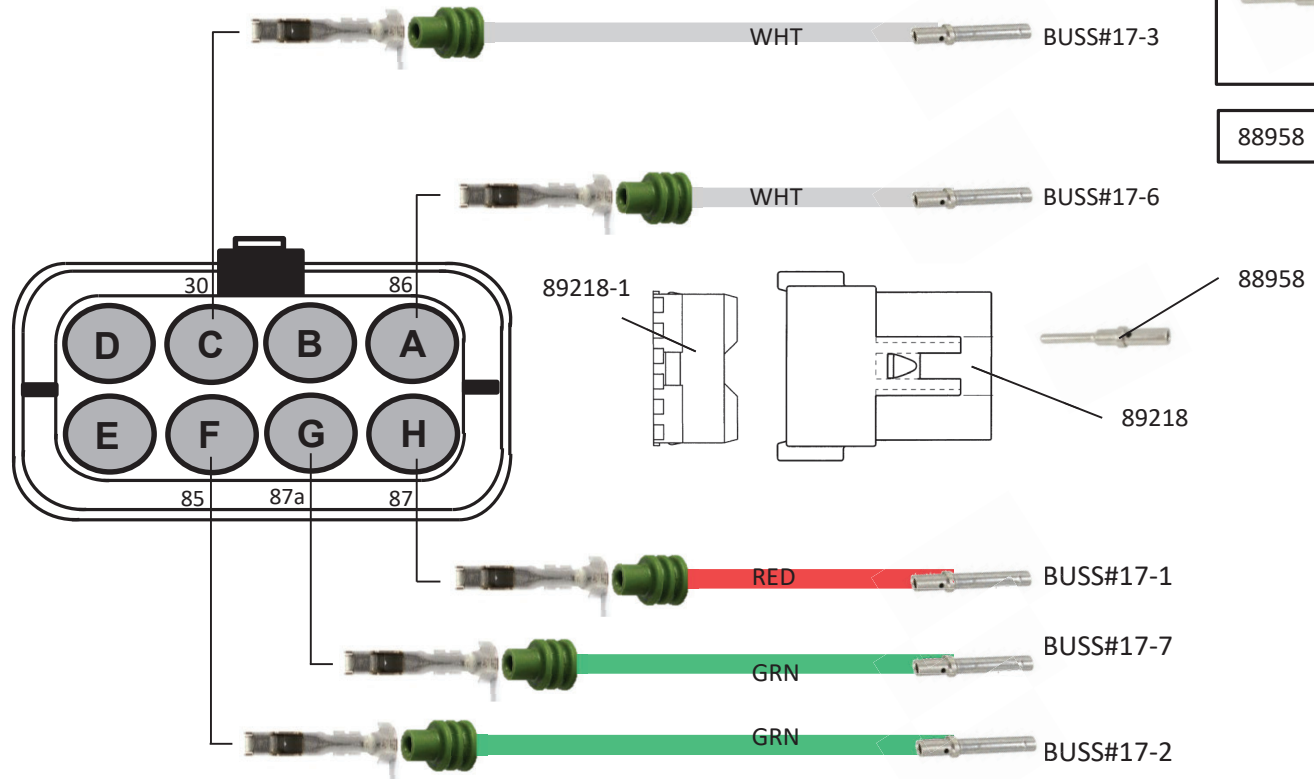
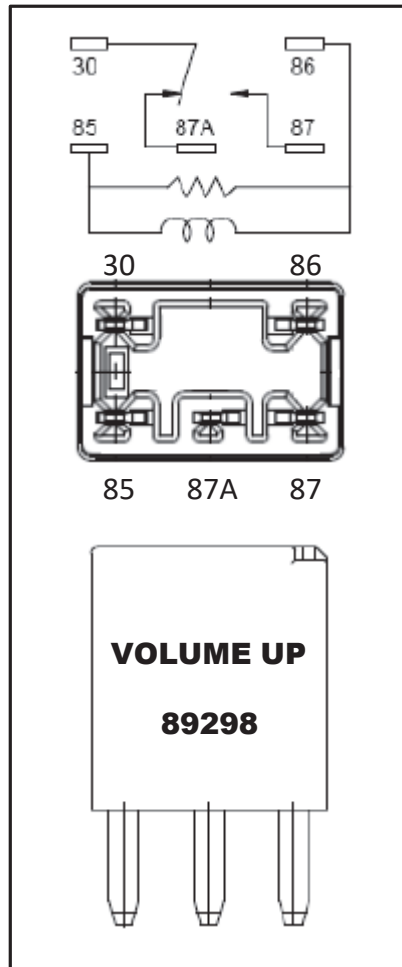
REV-Q

VOLUME RELAY OPTION (UP) RELAY

CUT WIRE 1 1/2" LONG



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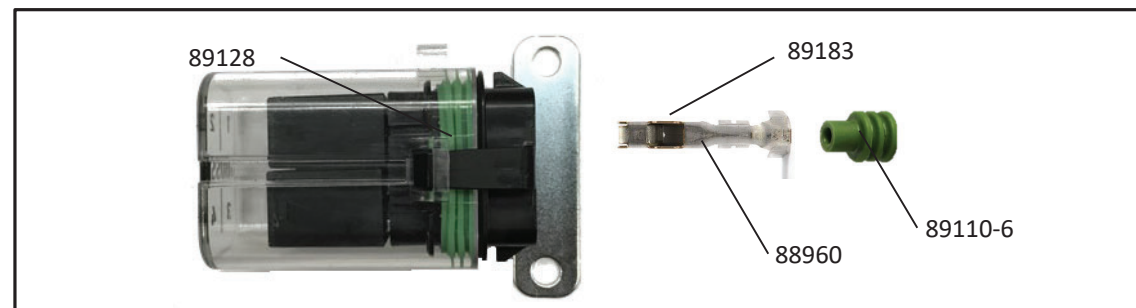
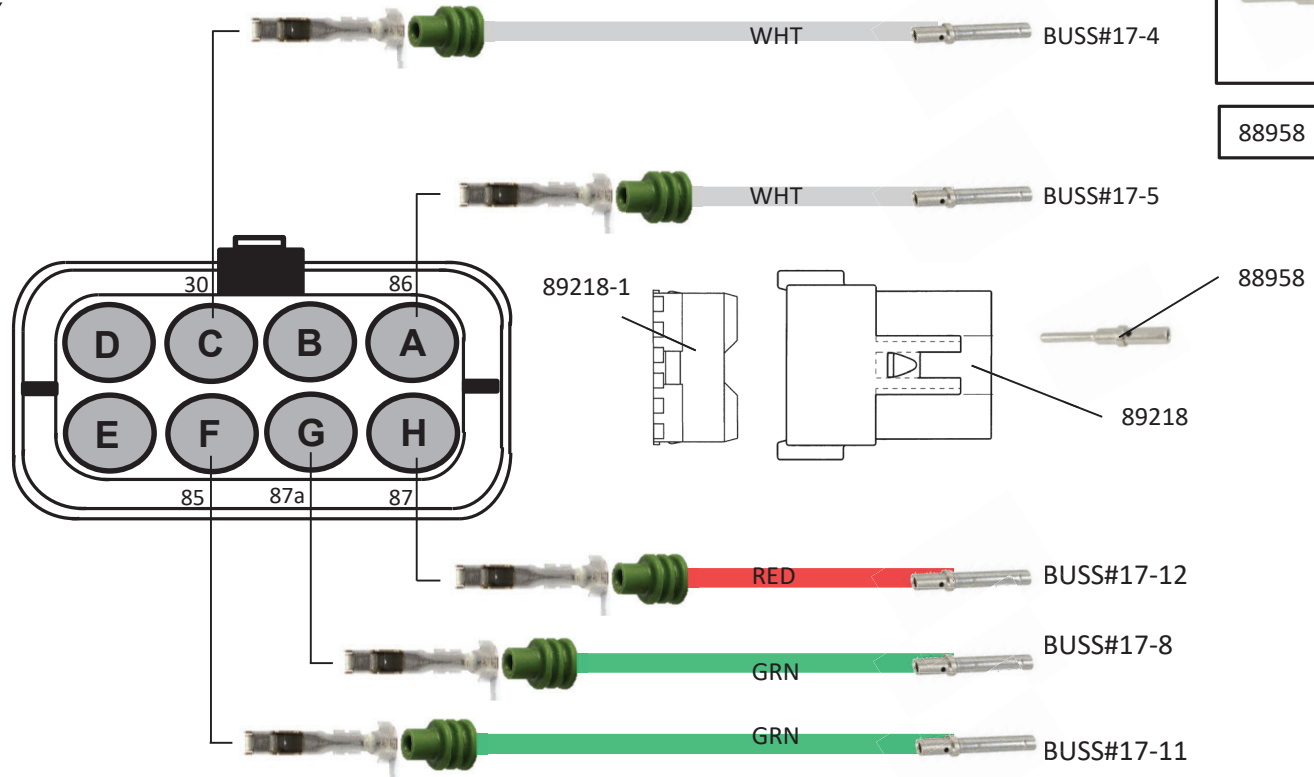
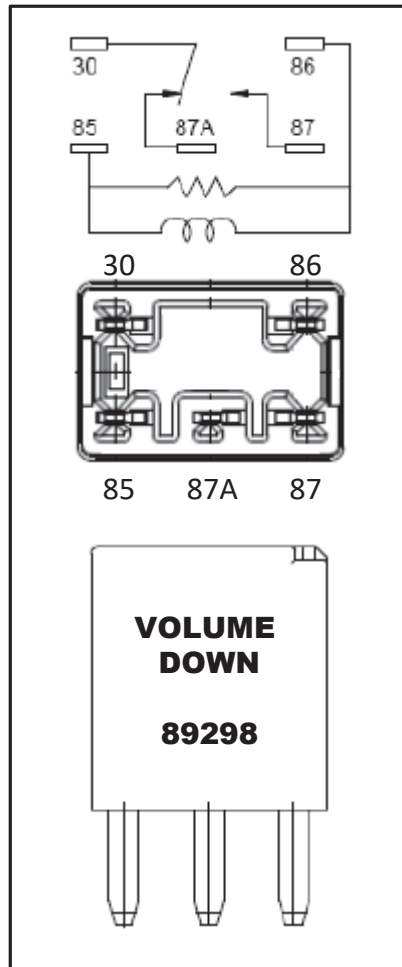
REV-Q

VOLUME RELAY OPTION (DOWN) RELAY

CUT WIRE 1 1/2" LONG



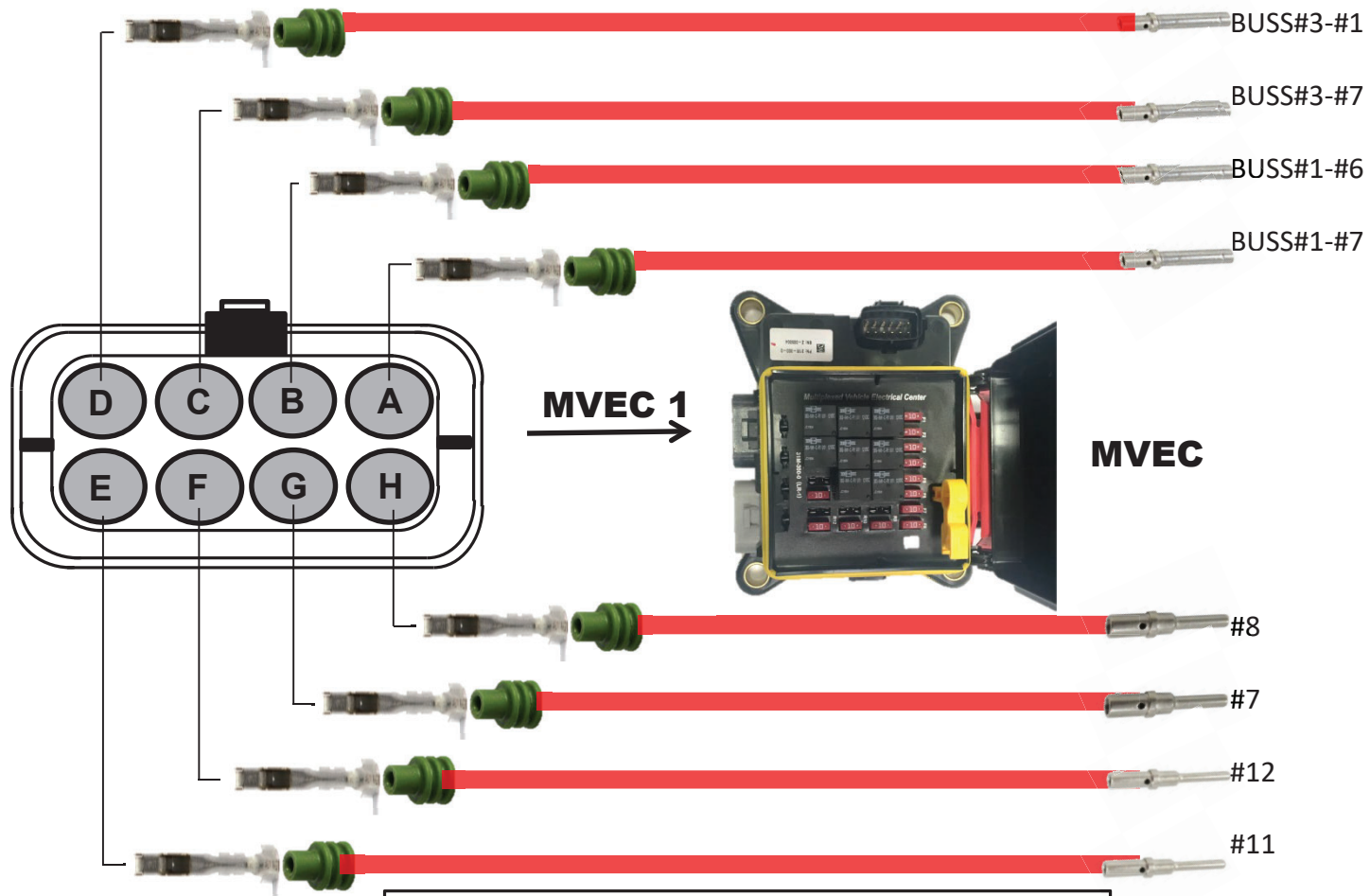
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REV-Q

MVEC #1



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BW10147

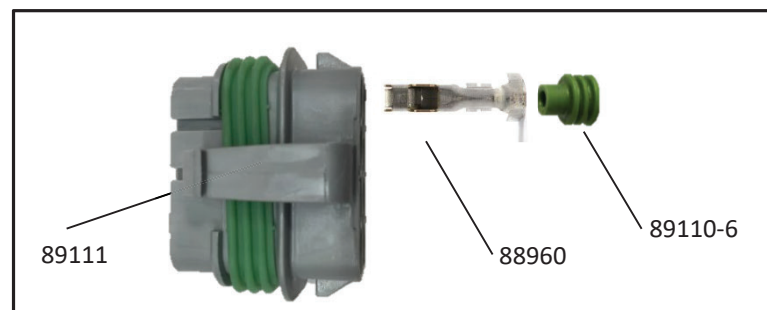
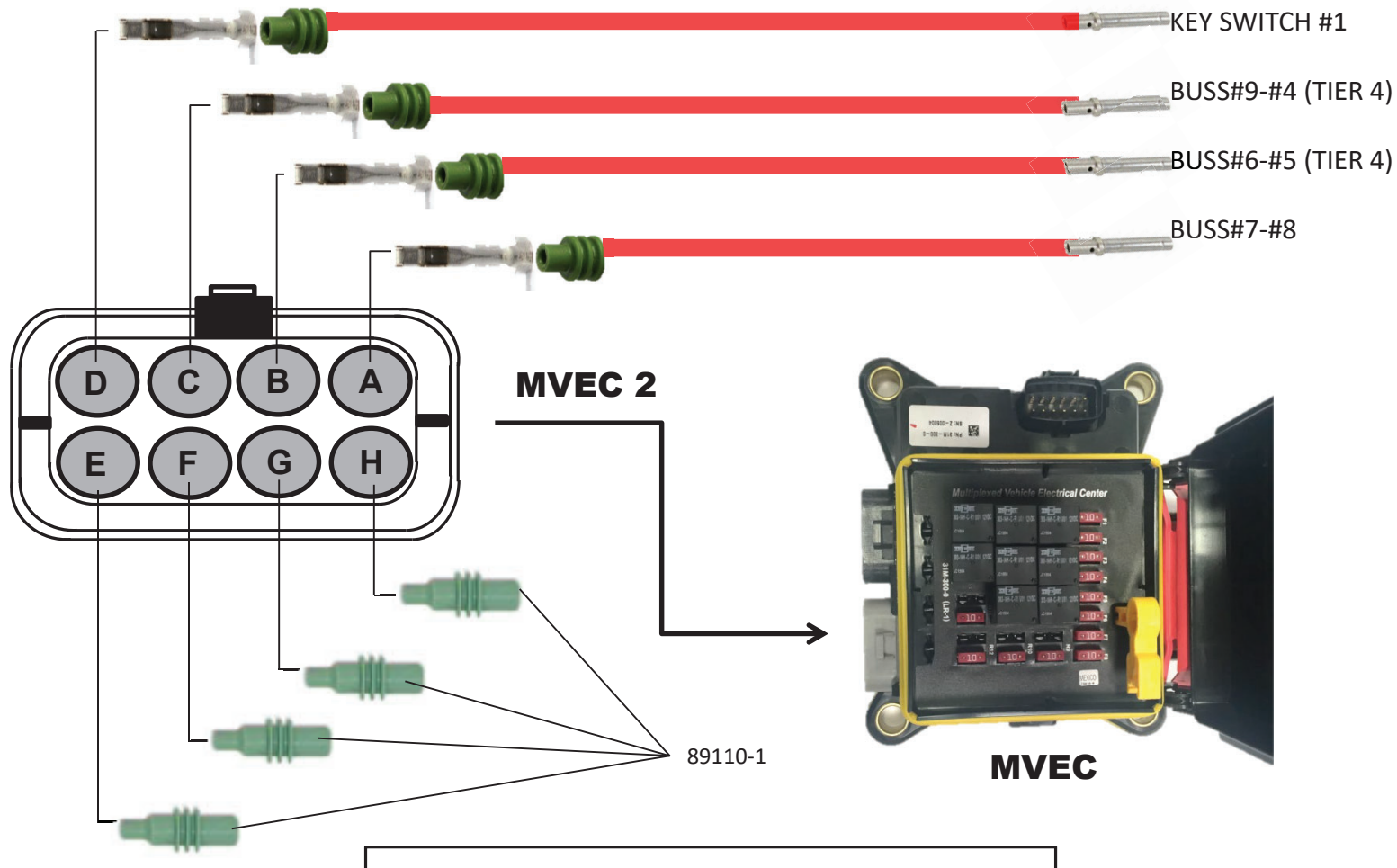


128 PLUG

87807

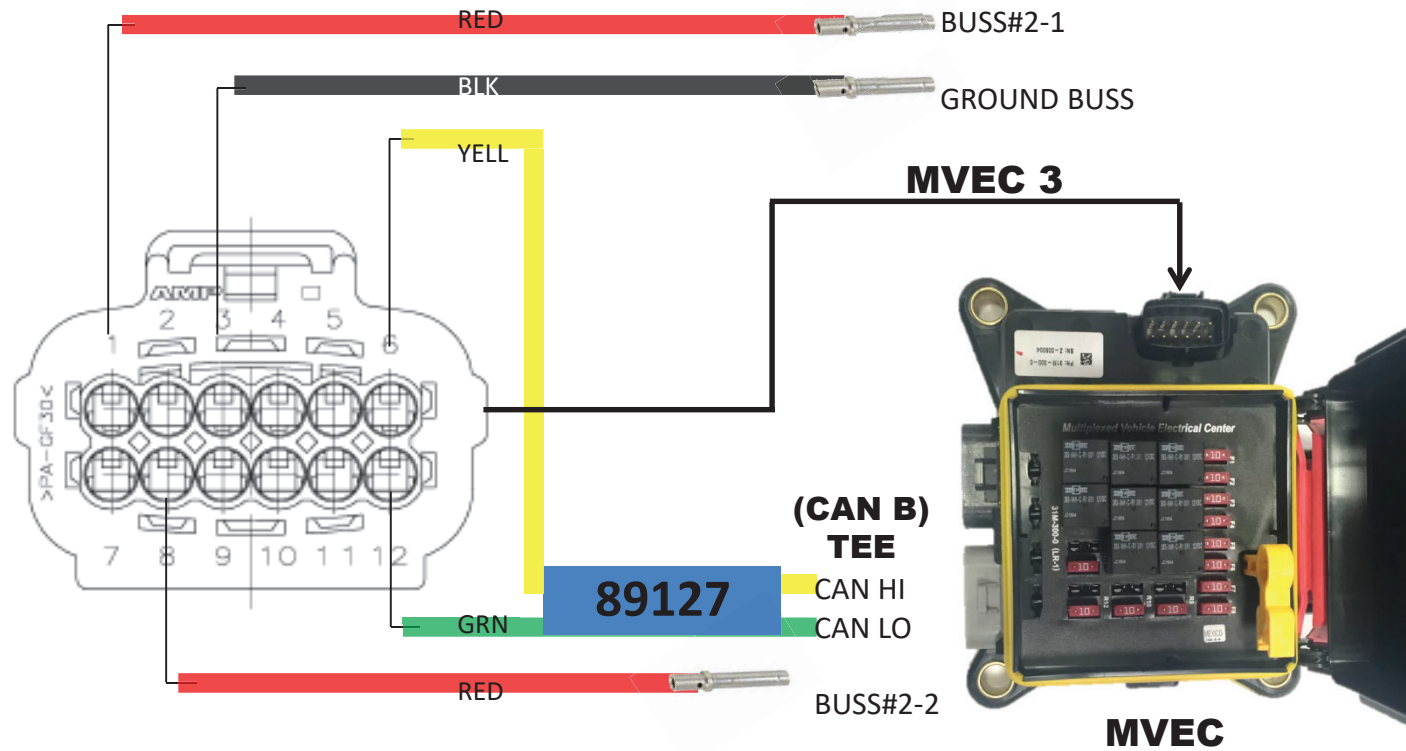
**CUT ALL WIRES
5FT 18 AWG TXL**

MVEC #2

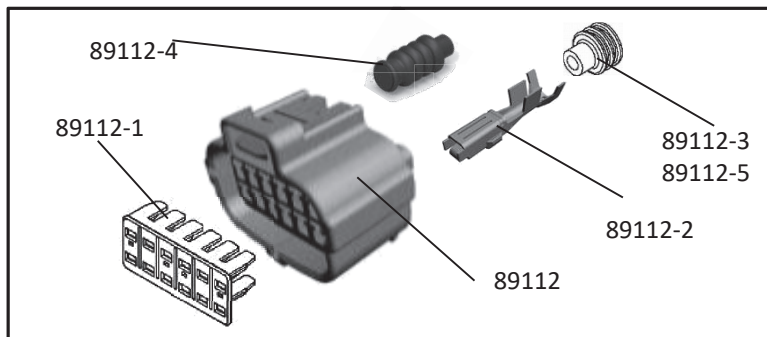


**CUT ALL WIRES
5FT 18 AWG TXL**

MVEC #3



BW10147

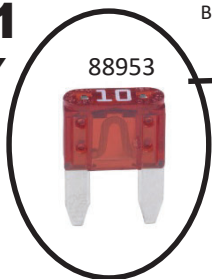


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REV-Q

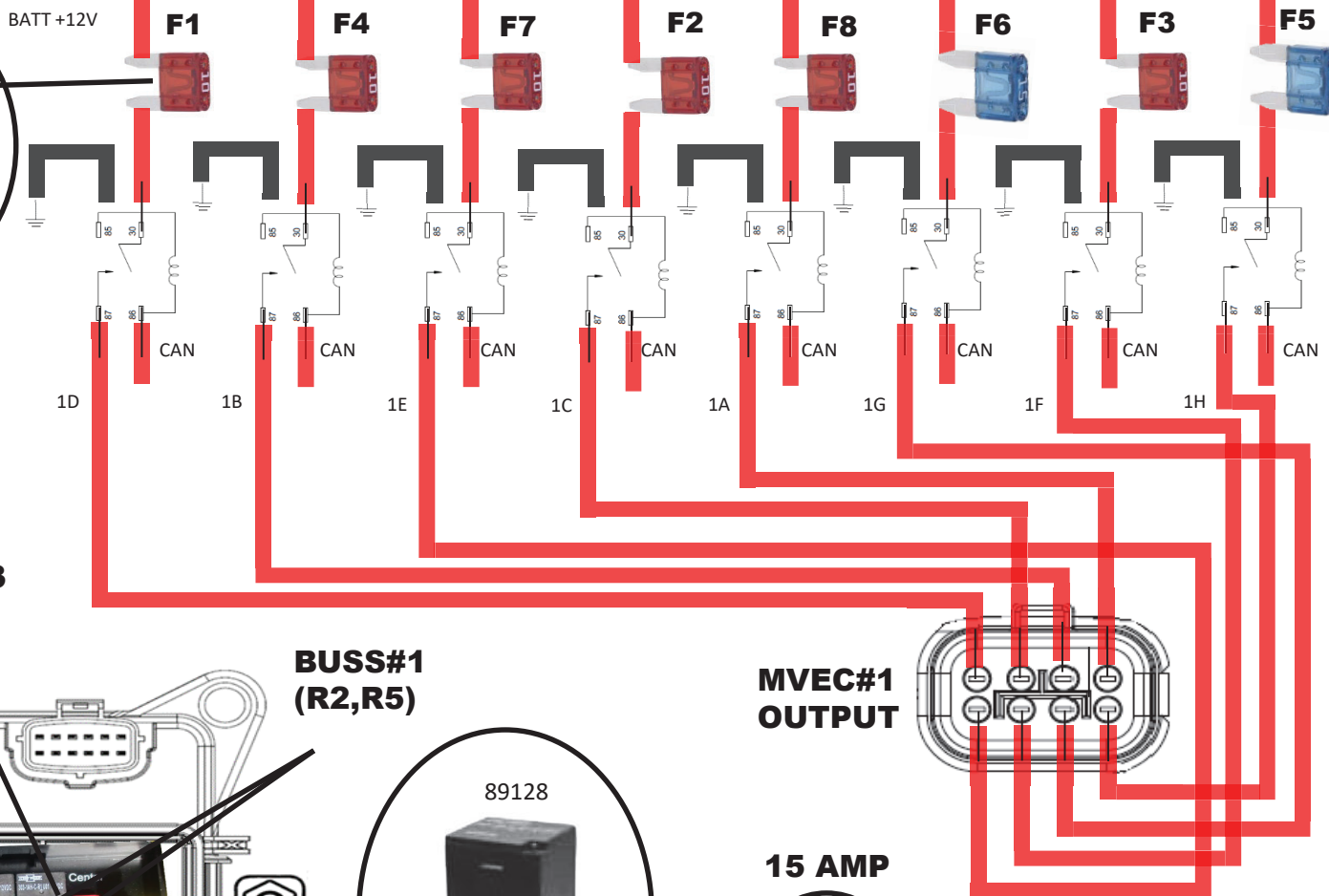
MVEC #1 FUSE/RELAY OUTPUT

10 AMP



- F8 -- R5 -1A BUSS 1-#7
- F4 -- R2 -1B BUSS 1-#6
- F2 -- R4 -1C BUSS 3-#7
- F1 -- R1 -1D BUSS 3-#1
- F7 -- R3 -1E 128-11 HORN
- F3 -- R7 -1F 128-12 HORN
- F6 -- R6 -1G 128-7 VIB
- F5 -- R8 -1H 128-8 VIB

BATT +12V



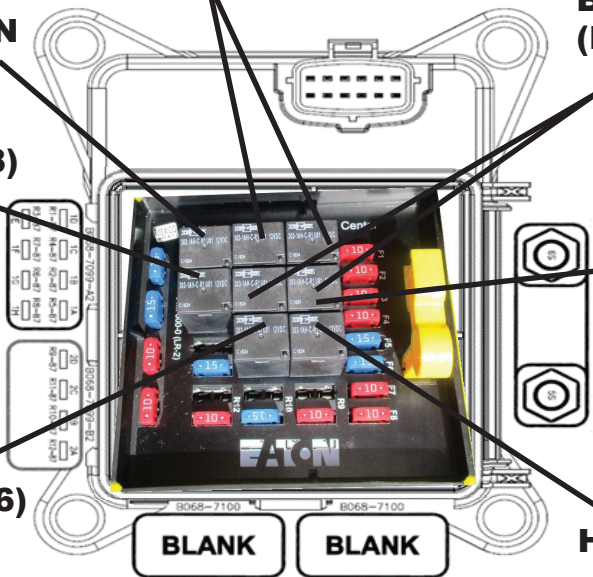
BUSS#3
(R1,R4)

BUSS#1
(R2,R5)

HORN
(R7)

VIB (R8)

VIB (R6)

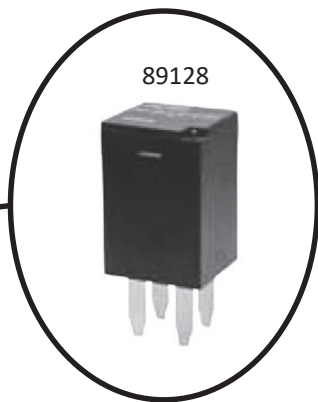


BLANK

BLANK

HORN(R3)

89128



MVEC#1
OUTPUT

15 AMP



88944

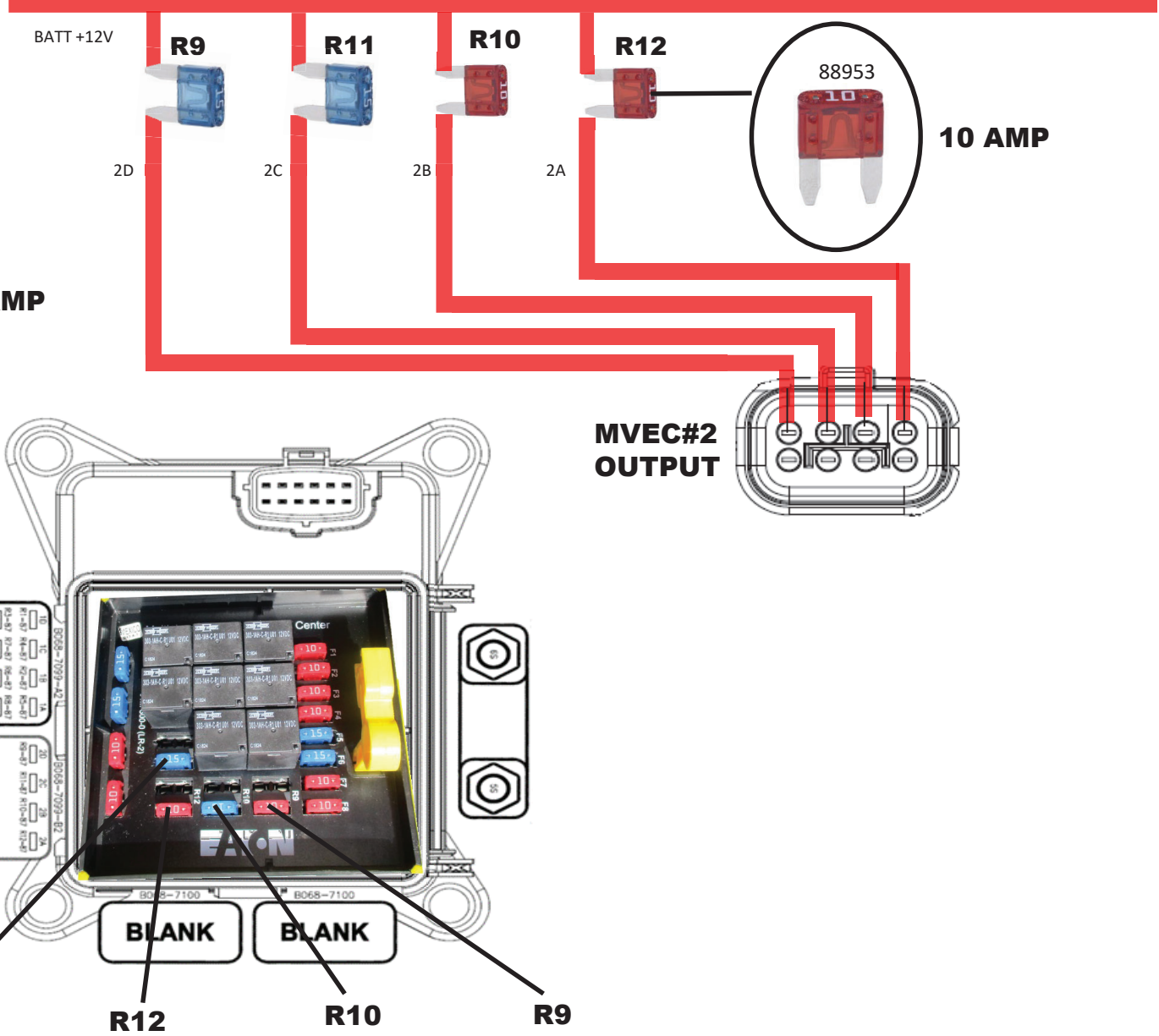
MVEC #2 FUSE/RELAY OUTPUT

R12 -- 2A BUSS 7 KEY ON
R10 -- 2B BUSS 6 DEF
R11 -- 2C BUSS 9 DEF
R9 ----2D KEY-1

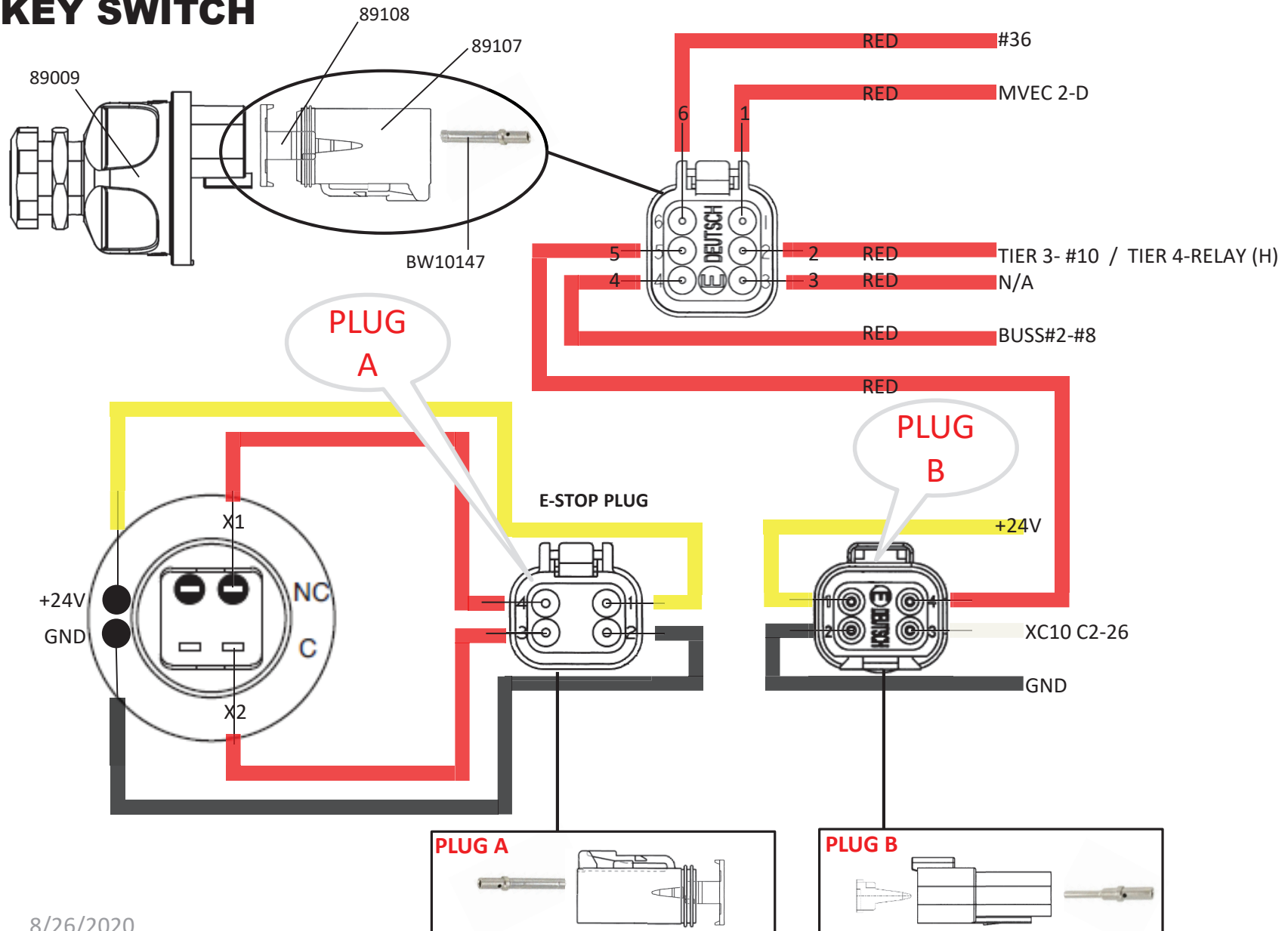


88944

15 AMP

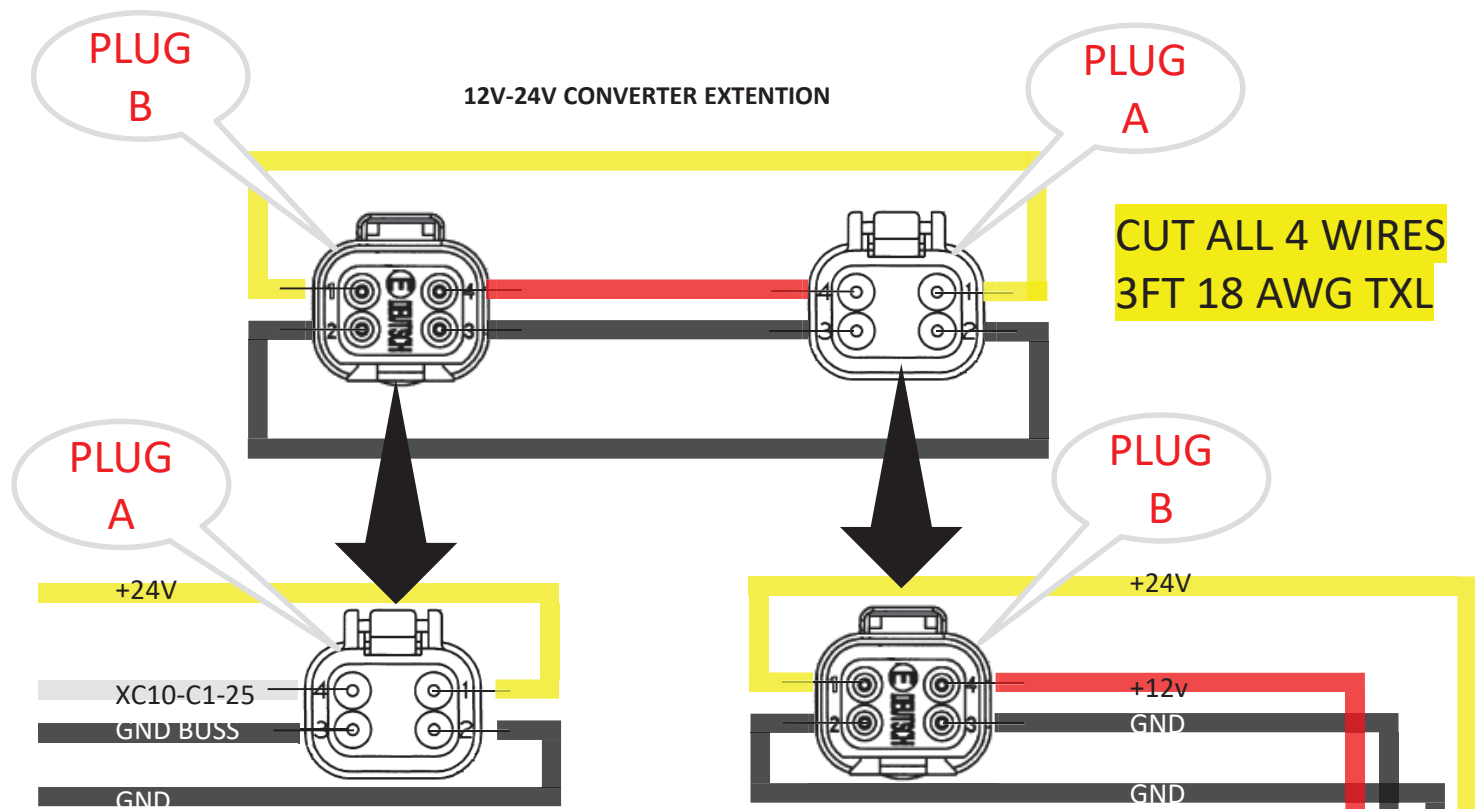


KEY SWITCH

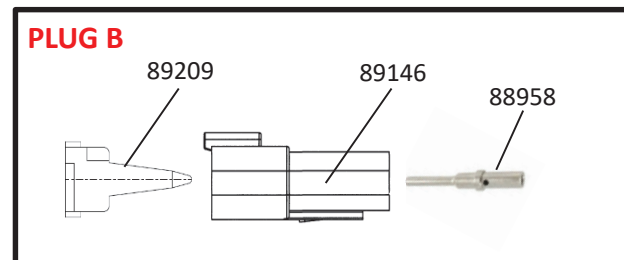
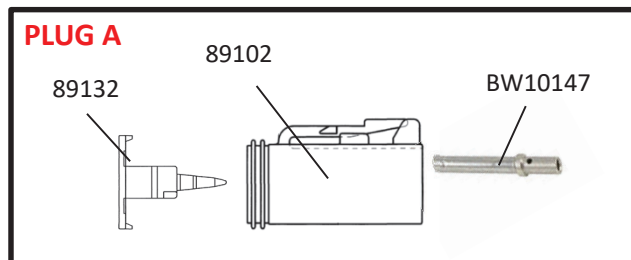


8/26/2020

REV-Q



12-24 CONVERTER CONNECTION



KEY SWITCH

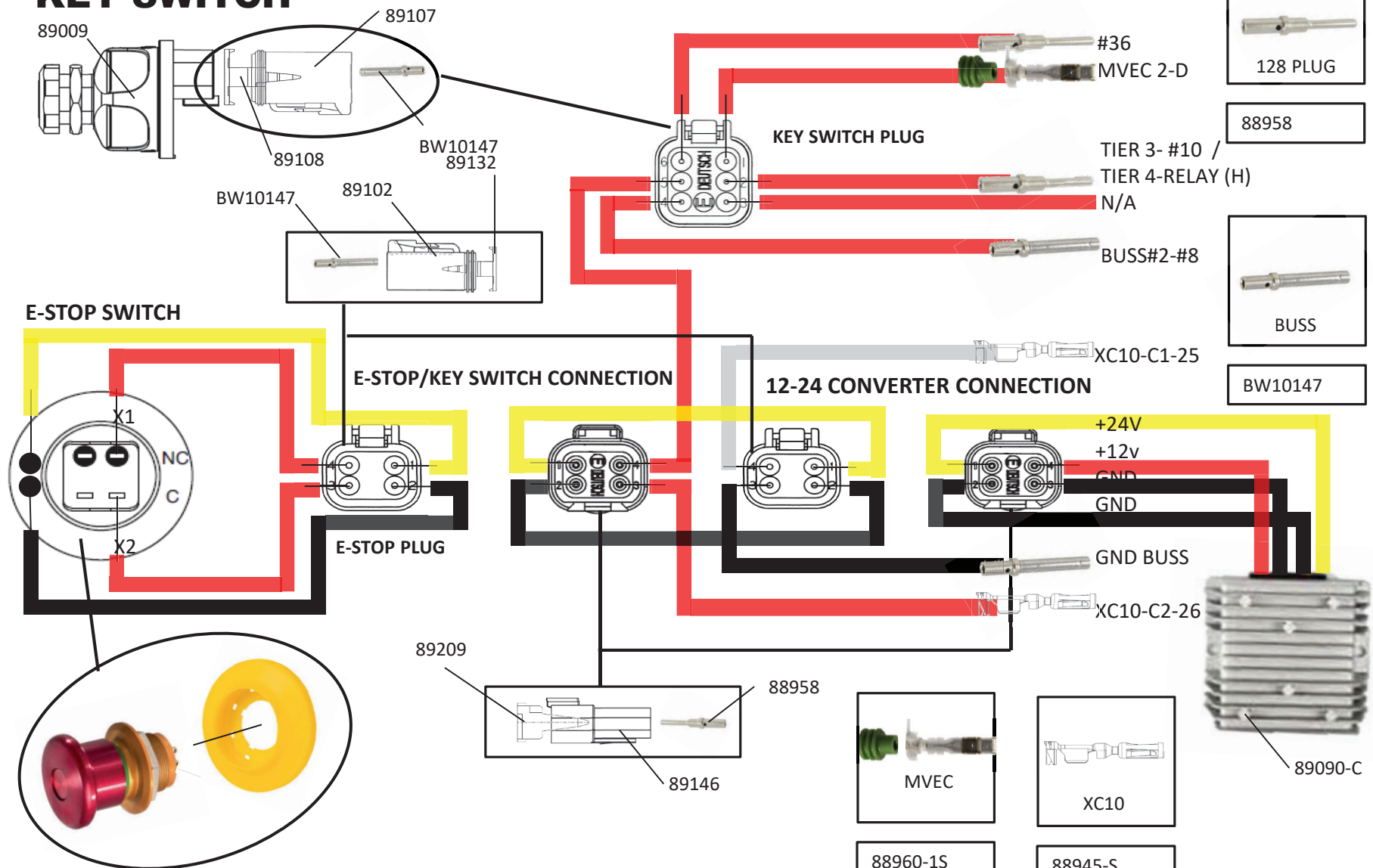
This diagram illustrates the components of a key switch assembly. The main assembly is shown on the left, with a callout on the right providing a detailed view of the internal mechanism. The callout is enclosed in an oval and shows the internal components: a key (89107) inserted into a lock cylinder (89108). The key is shown in two positions: one where it is fully inserted and another where it is partially inserted, demonstrating its function. The label 'BW' is visible at the bottom right of the callout.

89009

89107

89108

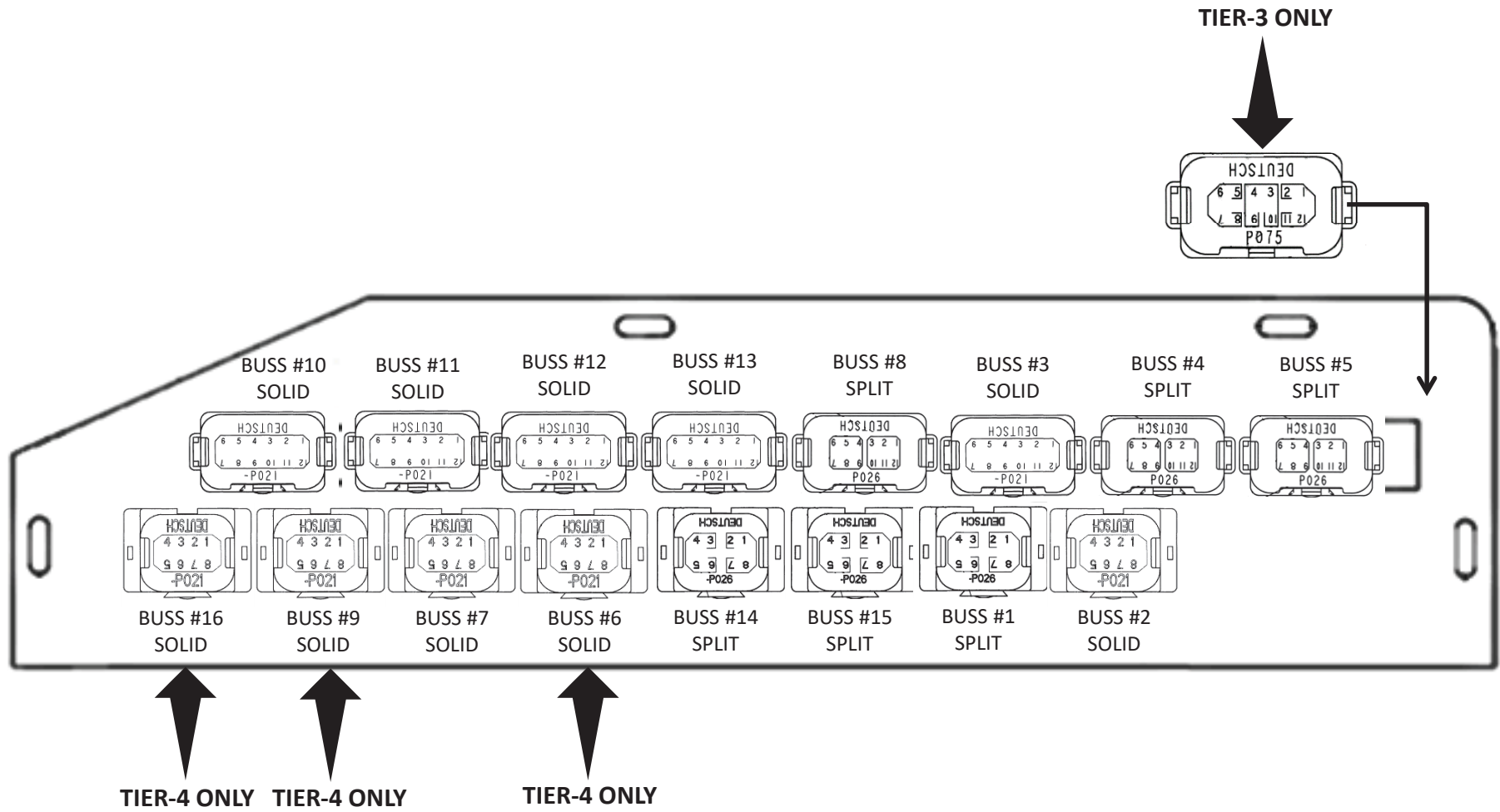
BW



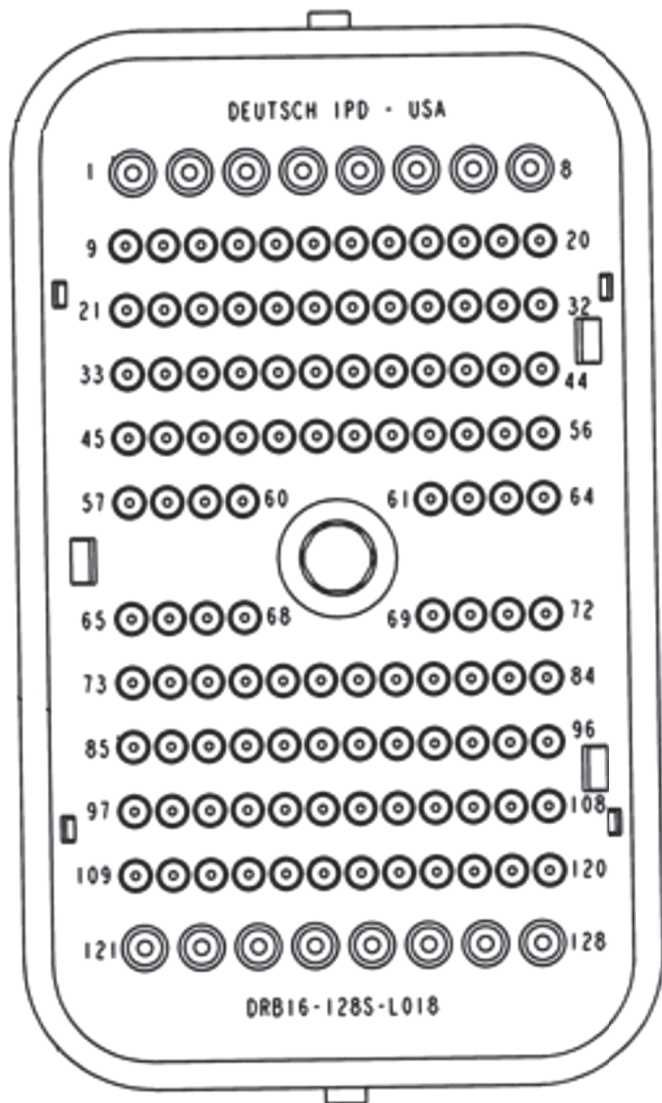
8/26/2020

REV-Q

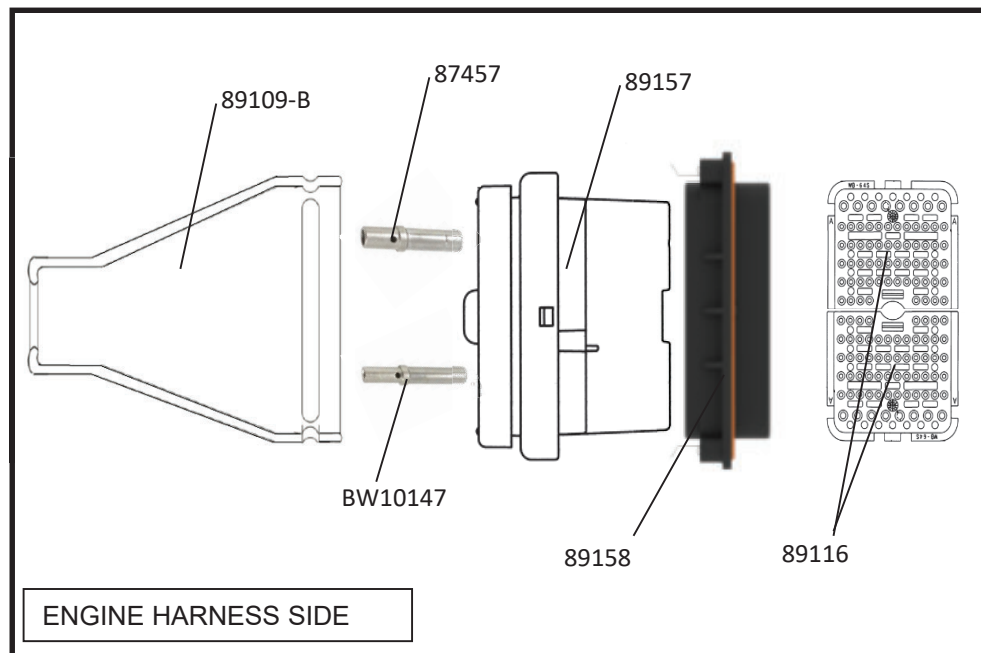
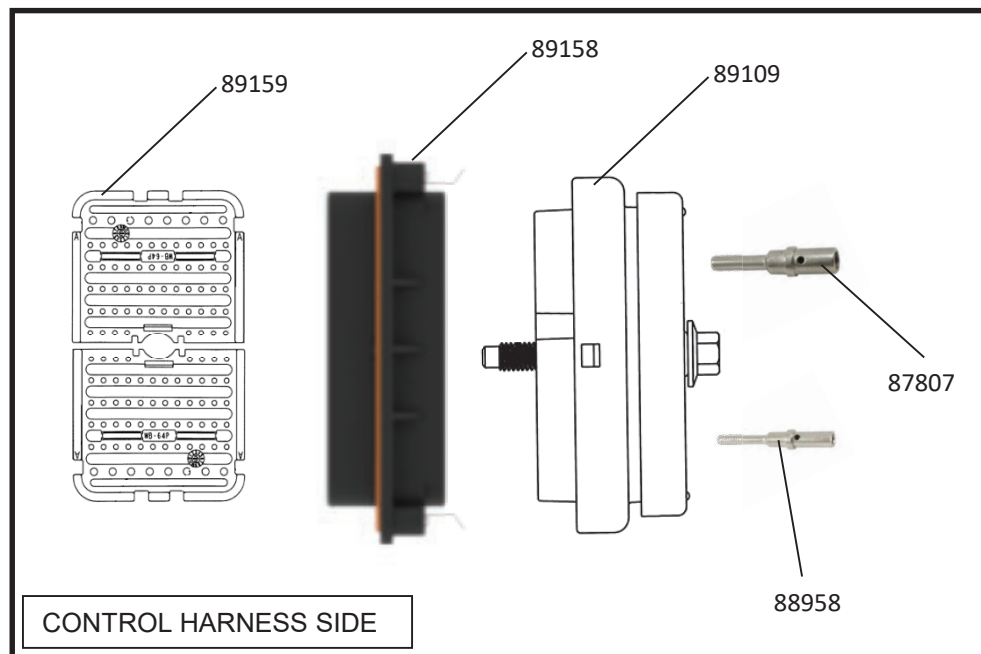
BUSS BAR SET-UP



DEUTSCH 128 PLUG



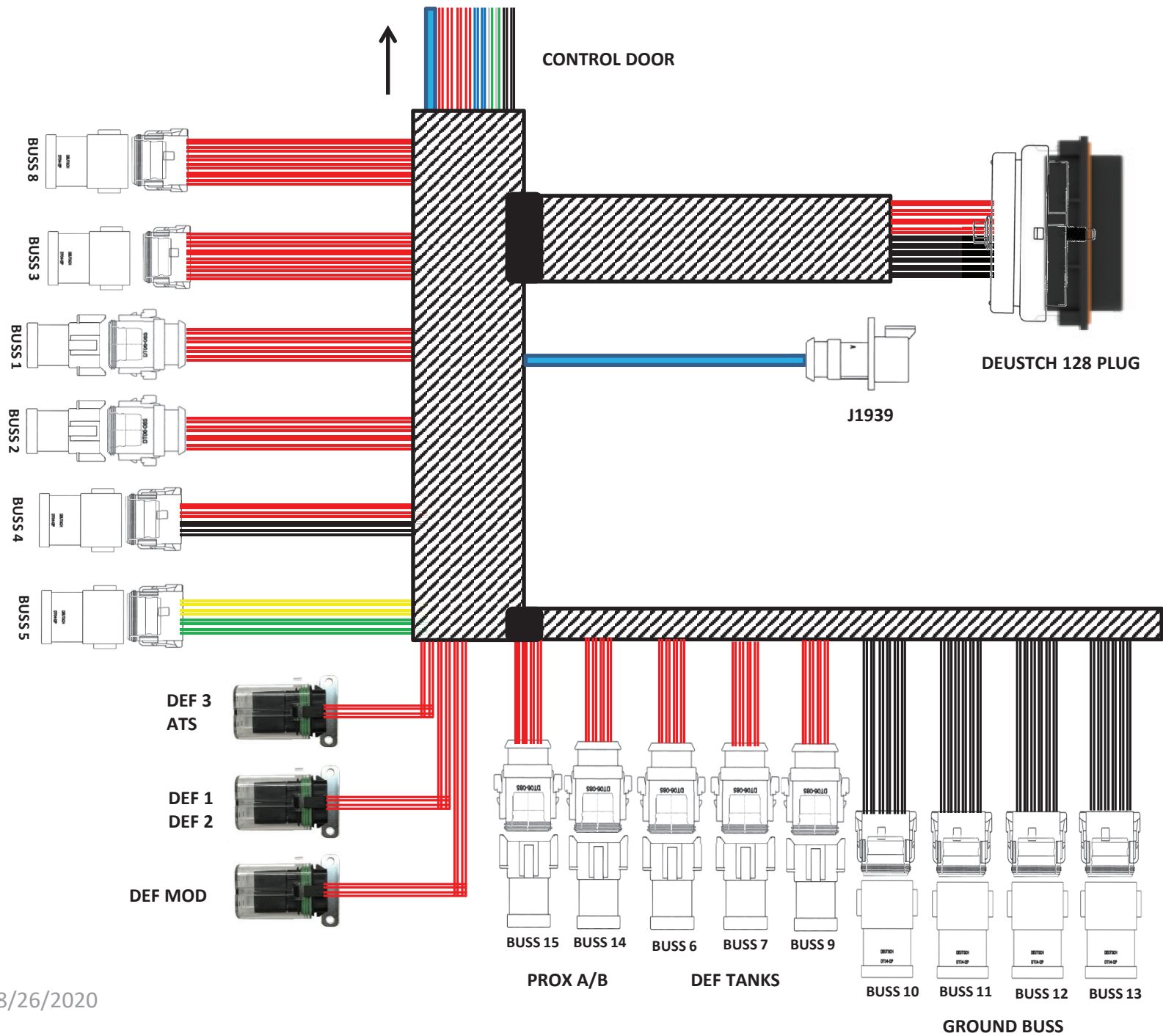
8/26/2020



REV-Q

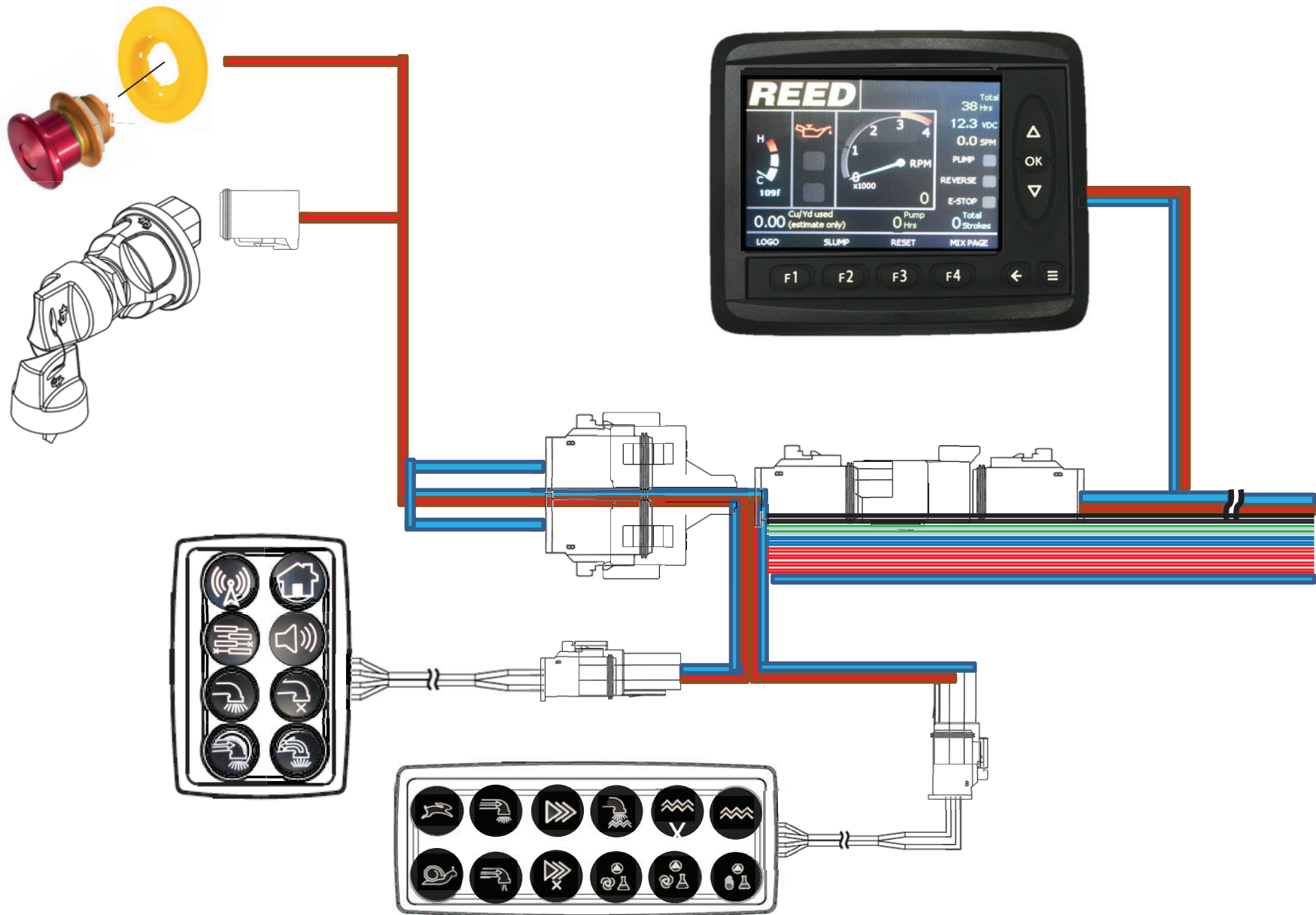
DEUTSCH 128 PLUG TIER 4 PIN OUT

FROM	DESCRIPTION	WIRE SIZE/COLOR	TO	FROM	DESCRIPTION	WIRE SIZE/COLOR
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	65	BUSS#17-3	VOLUME +	RED 18/19 AWG
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	66	BUSS#17-4	VOLUME -	RED 18/19 AWG
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	67			
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	68			
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	69			
MEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	70	DEF1 (F)		RED 18 AWG
MEC #1-G	VIBRATOR V+	RED 16 AWG	71	DEF 2 (H)		RED 18 AWG
MEC #1-H	VIBRATOR V+	RED 16 AWG	72	DEF 3 (F)		RED 18 AWG
BUSS#1-3	KEY PWR BUSS	RED 18/19 AWG	73	BUSS#13-8	FAST CHANGE	RED 18/19 AWG
TIER4 RELAY (H)	STARTER RELAY	RED 18/19 AWG	74	BUSS#13-9	REVERSE VALVE	RED 18/19 AWG
MEC#1-E	HORN V+	RED 16 AWG	75	BUSS#13-10	GND (OPTION)	RED 18/19 AWG
MEC#1-F	HORN V+	RED 16 AWG	76	BUSS#13-11	CHEM PUMP GND	RED 18/19 AWG
XC10 C2-24	STROKE	HAYWARD BAKER	77	BUSS#12-11	E-STOP LIGHT	RED 18/19 AWG
BUSS #14-2	PROX-A	HAYWARD BAKER	78	BUSS#12-10	SAFETY VALVE 1	RED 18/19 AWG
BUSS#15-4	PROX-B	HAYWARD BAKER	79	BUSS#12-9	SAFETY VALVE 2	RED 18/19 AWG
			80	BUSS#12-8	S-TUBE COIL (A)	RED 18/19 AWG
BUSS#8-3	GRATE SENSOR	RED 18/19 AWG	81	BUSS#12-7	S-TUBE COIL (B)	RED 18/19 AWG
BUSS#8-1	PROX SENSOR B	RED 18/19 AWG	82	BUSS#12-6	PUMP COIL (A)	RED 18/19 AWG
BUSS#8-2	PROX SENSOR A	RED 18/19 AWG	83	BUSS#12-5	PUMP COIL (B)	RED 18/19 AWG
			84	BUSS#13-2	OUTRIGGER (-)	RED 18/19 AWG
			85	BUSS#13-7	OUTRIGGER (-)	RED 18/19 AWG
BUSS#14-4	HOT OIL SENSOR	RED 18/19 AWG	86			
			87	BUSS#12-2	GND BUSS	RED 18/19 AWG
			88			
			89			
			90	BUSS#10	GROUND BUSS	RED 18 AWG
XC10 C2-6	STUBE DUMP 2	RED 18/19 AWG	91			
XC10 C1-8	GRATE SENSOR	RED 18/19 AWG	92			
BUSS#14-1	PROX SENSOR A	RED 18/19 AWG	93			
BUSS#15-3	PROX SENSOR B	RED 18/19 AWG	94	BUSS#7-1	POWER OPTION	RED 18/19 AWG
			95			
			96			
			97			
			98			
			99			
BUSS#7-3	GREASER 12V+	RED 18/19 AWG	100	TIER 4-G	TIER 4 RELAY	RED 18/19 AWG
KEY SWITCH 6	OPTION (12V+)	RED 18/19 AWG	101	TIER 4-A	TIER 4 RELAY	RED 18/19 AWG
BUSS#8-4	V+ OPTION	RED 18/19 AWG	102	BUSS#16	DEF 1,2,3 GND	RED 18/19 AWG
BUSS#8-5	HOT OIL VALVE	RED 18/19 AWG	103	DEF MOD-C	DEF MOD RELAY	RED 18/19 AWG
			104			
BUSS#13-5	GRATE SENSOR	RED 18/19 AWG	105			
BUSS#13-4	PROX SENSOR B	RED 18/19 AWG	106	BUSS#8-7	KEY-ON	RED 18/19 AWG
BUSS#13-3	PROX SENSOR A	RED 18/19 AWG	107	XC10 C1-35	HOT OIL VALVE	RED 18/19 AWG
	CHEMICAL		108	XC10 C1-12	PWM SIGNAL	RED 18/19 AWG
XC10 C2-23	FAST CHANGE	RED 18/19 AWG	109	BUSS#11	VIBRATOR GND	RED 18/19 AWG
XC10 C2-12	REVERSE VALVE	RED 18/19 AWG	110			
XC10 C1-1	PWM SIGNAL (V+)	RED 18/19 AWG	111	BUSS#11-3	HORN GND	RED 18/19 AWG
XC10 C1-13	CHEM PUMP	RED 18/19 AWG	112	BUSS#11-2	HORN GND	RED 18/19 AWG
XC10 C1-25	E-STOP LIGHT V+	RED 18/19 AWG	113			
XC10 C1-26	STUBE DUMP 1	RED 18/19 AWG	114			
XC10 C1-27	REMIX DUMP V+	RED 18/19 AWG	115			
XC10 C2-11	S-TUBE COIL-A	RED 18/19 AWG	116			
XC10 C2-10	S-TUBE COIL-B	RED 18/19 AWG	117			
XC10 C2-9	PUMP COIL-A	RED 18/19 AWG	118	BUSS#7-2	SPARE V+ FUSE	RED 18/19 AWG
XC10 C2-8	PUMP COIL-B	RED 18/19 AWG	119	BUSS#8-8	ALT DIODE FEED	RED 18/19 AWG
BUSS#8-6	OUTRIGGER	RED 18/19 AWG	120			
			121	BUSS#12-1-12	GND (BATTERY)	RED 18/19 AWG
			122	BUSS#12-1-12	GND (BATTERY)	RED 18/19 AWG
ATS RELAY (H)	DEF RELAY	RED 18/19 AWG	123	BUSS#10-1-12	GND (BATTERY)	RED 18/19 AWG
DEF MOD RELAY (F)	DEF RELAY	RED 18/19 AWG	124	BUSS#11-1-12	GND (BATTERY)	RED 18/19 AWG
DEF #1 RELAY (F)	DEF RELAY	RED 18/19 AWG	125	BUSS#11-8	GND (BATTERY)	RED 18/19 AWG
DEF#2 RELAY (H)	DEF RELAY	RED 18/19 AWG	126	BUSS#11-7	GND (BATTERY)	RED 18/19 AWG
DEF#3 RELAY (F)	DEF RELAY	RED 18/19 AWG	127			
			128	BUSS#11-9	GND (VIBRATOR)	RED 18/19 AWG



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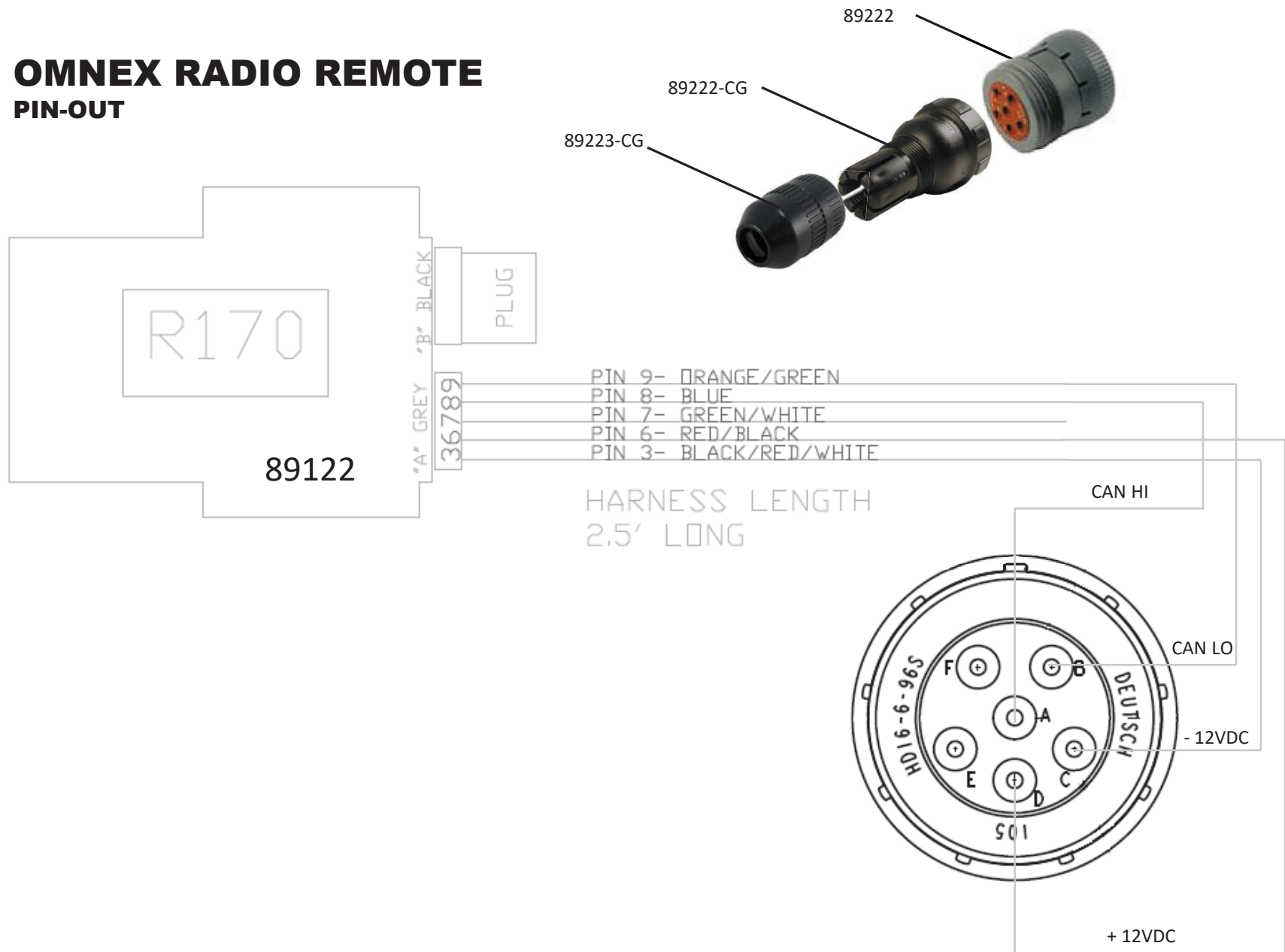
REV-Q



8/26/2020

REV-Q

OMNEX RADIO REMOTE PIN-OUT



8/26/2020

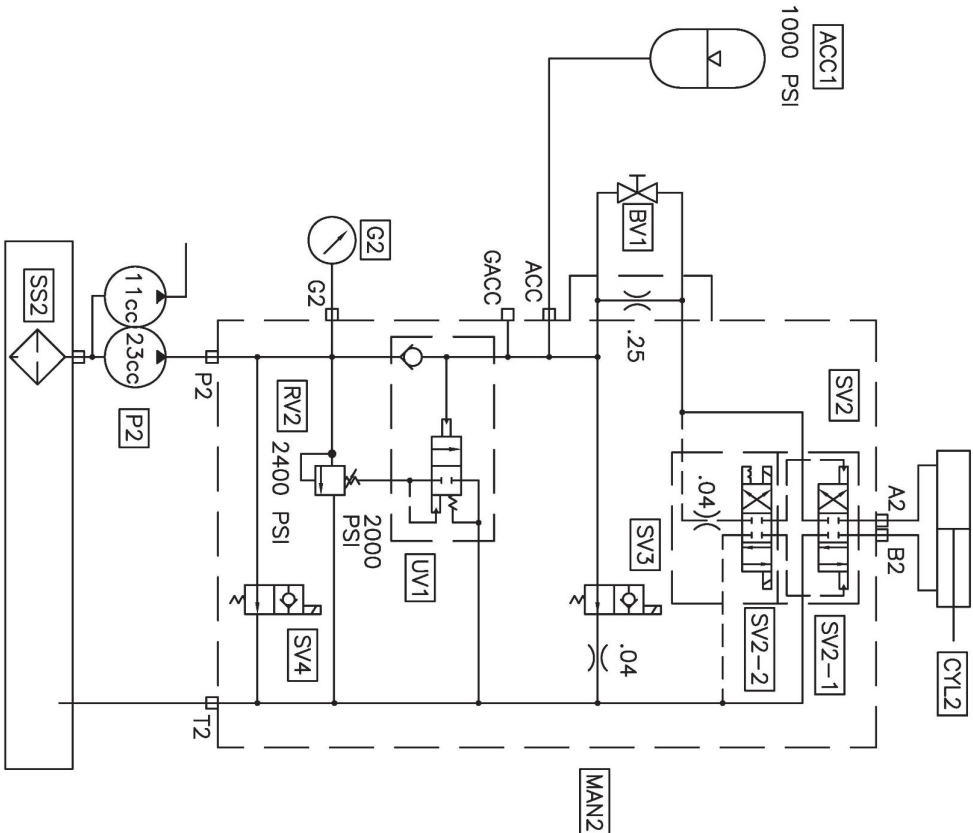
REV-Q

B SERIES DRIVE CYLINDER CIRCUIT HYDRAULIC SCHEMATIC



REED

B50/60/70 SERIES SWING TUBE HYDRAULIC
SCHEMATIC, SINGLE SHIFT CYLINDER



CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump	87571-1	1
CYL2	S Tube Single Shift Cylinder	86221	1
	Seal Kit, GRATE BEND or TEXAS	86221-SK??	1
MAN2	Manifold S Tube Circuit	85249	1
SV2	Solenoid Valve S Tube Circuit	85693	1
SV2-1	Valve Main	85694	1
	Seal Kit	74994	1
SV2-2	Solenoid Valve Pilot	85695	1
	Seal Kit	72313	1
SV3	Coil For SV2-2	85692	2
	Solenoid Valve Cartridge	87246	1
SV4	Coil For SV3	87247	1
	Solenoid Valve Cartridge	87248	1
	Coil For SV4	87249	1
RV2	Relife Valve Cartrige	85703	1
UN1	Seal Kit For Relife Valve	85703SK	1
	Unlodng Valve Cartrige	85704	1
BV1	Seal Kit For Unloader Valve	85704SK	1
	Ball Valve	85705	1
AAC1	Accumulator	74515	1
	Accumulator, Bladder	74516	1
G2	Seal Kit Accumulator, Bladder	85812	1
	Pressure Gauge 3000 PSI	70366	1
SS2	Magnetic Suction Strainer 1 1/4"	79247	1

REED

PART NO.
86705

REV.
B

DATE
11/7/01

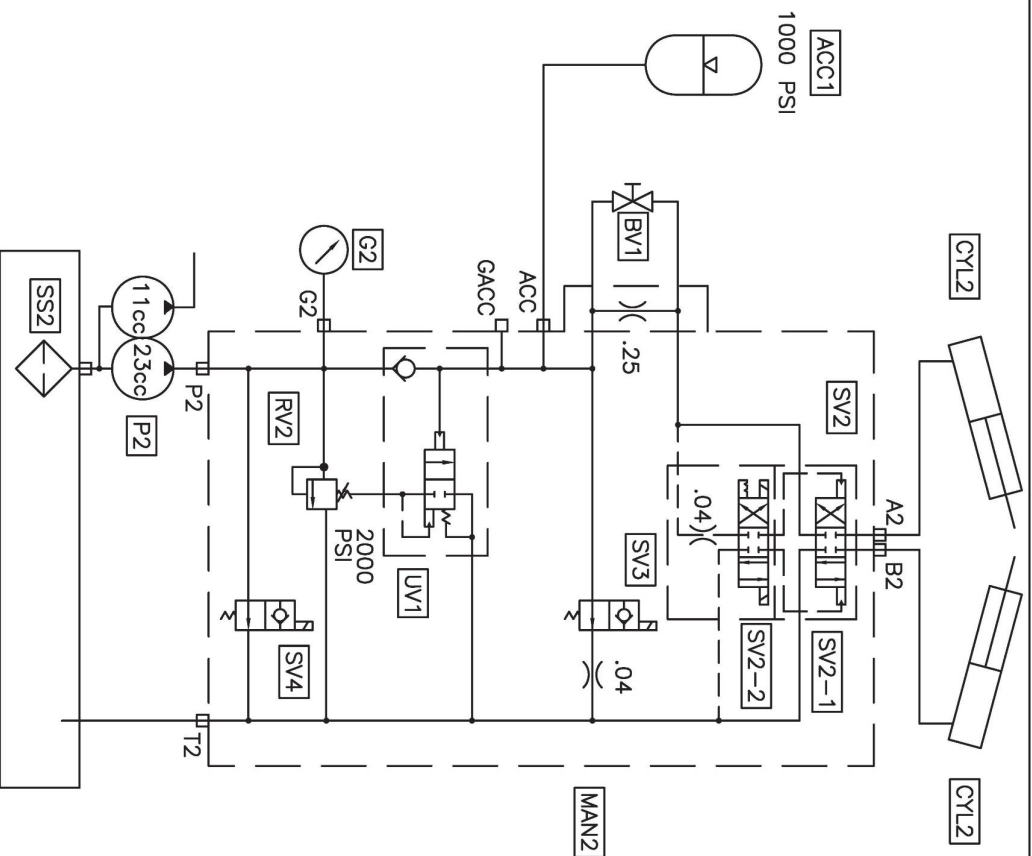
B SERIES SWING TUBE HYDRAULIC
SCHEMATIC, DUAL SHIFT CYLINDER

DATE
11/7/01

REV.
B

PART NO.
86706

REED



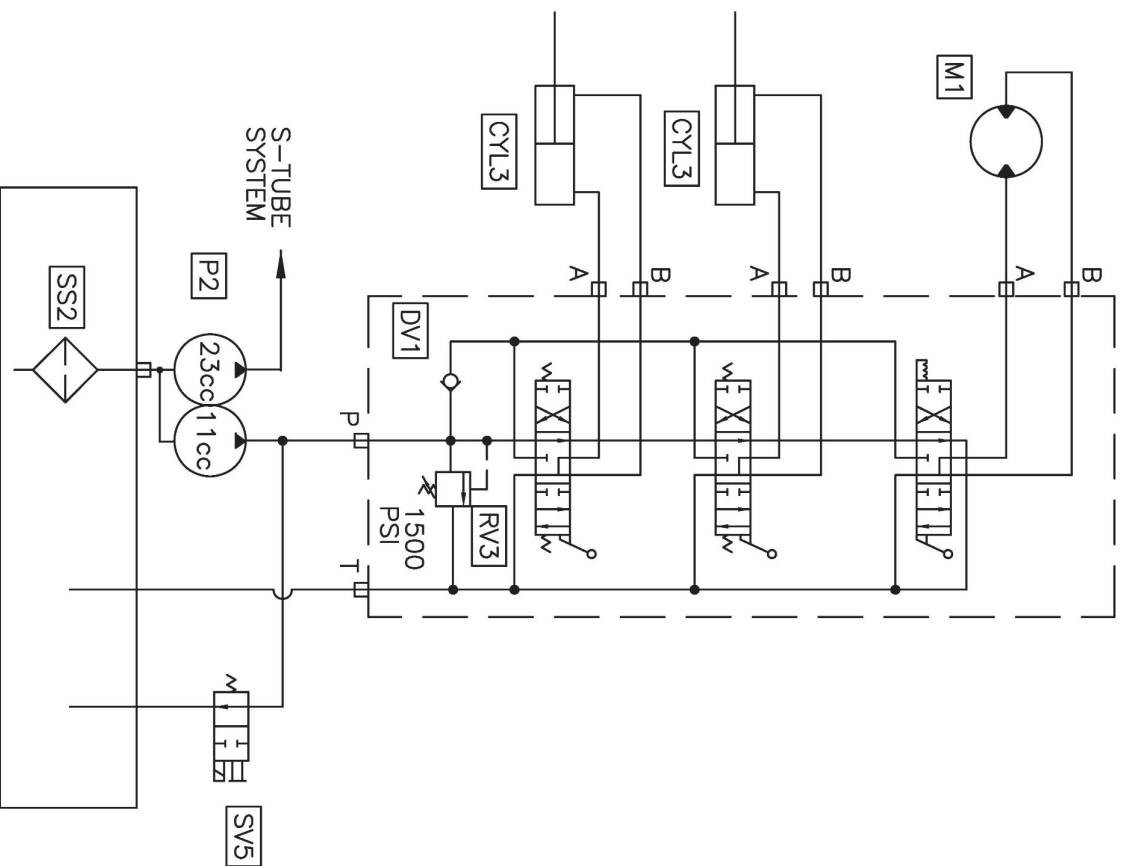
CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump		1
CYL2	S Tube Single Shift Cylinder	86220	2
	Seal Kit	86220-SKTX	1
MAN2	Manifold S Tube Circuit	85249	1
SV2	Solenoid Valve S Tube Circuit	85693	1
SV2-1	Valve Main	85694	1
	Seal Kit	74994	1
SV2-2	Solenoid Valve Pilot	85695	1
	Seal Kit	72313	1
	Coil For SV2-2	85692	2
SV3	Solenoid Valve Cartridge	87246	1
	Coil For SV3	87247	1
SV4	Solenoid Valve Cartridge	87248	1
	Coil For SV4	87249	1
RV2	Relife Valve Cartridge	85703	1
UN1	Unloding Valve Cartridge	85704	1
BV1	Ball Valve	85705	1
AAC1	Accumulator	74515	1
	Accumulator, Bladder	74516	1
	Seal Kit Accumulator, Bladder	85812	1
G2	Pressure Gauge 3000 PSI	70366	1
SS2	Magnetic Suction Strainer 1 1/4"	79247	1
REV B-5/7/2009			

OPTION SCHEMATIC

11/7/01

B

86707

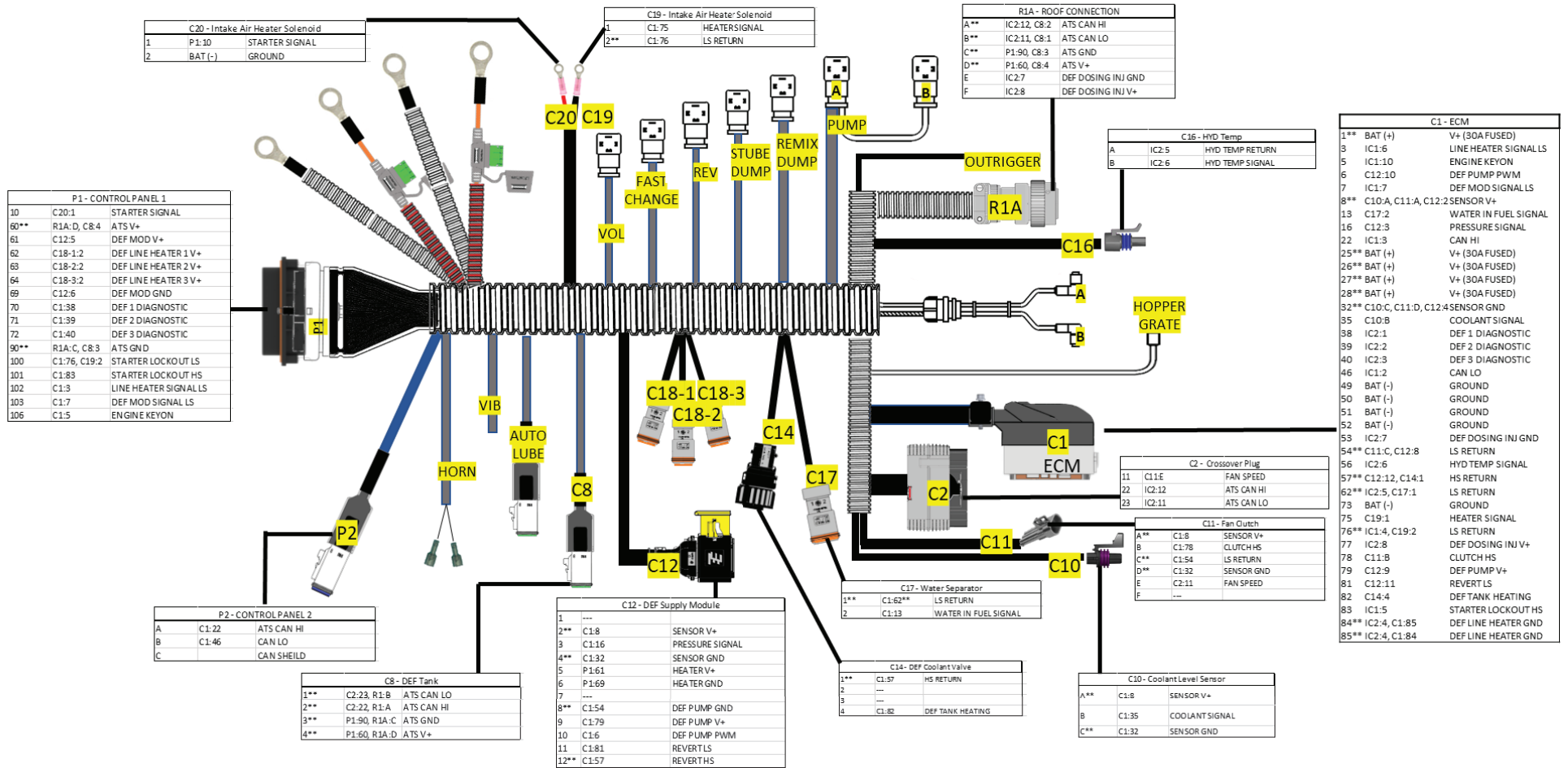
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89113 PLC WIRING HARNESS PIN-OUT

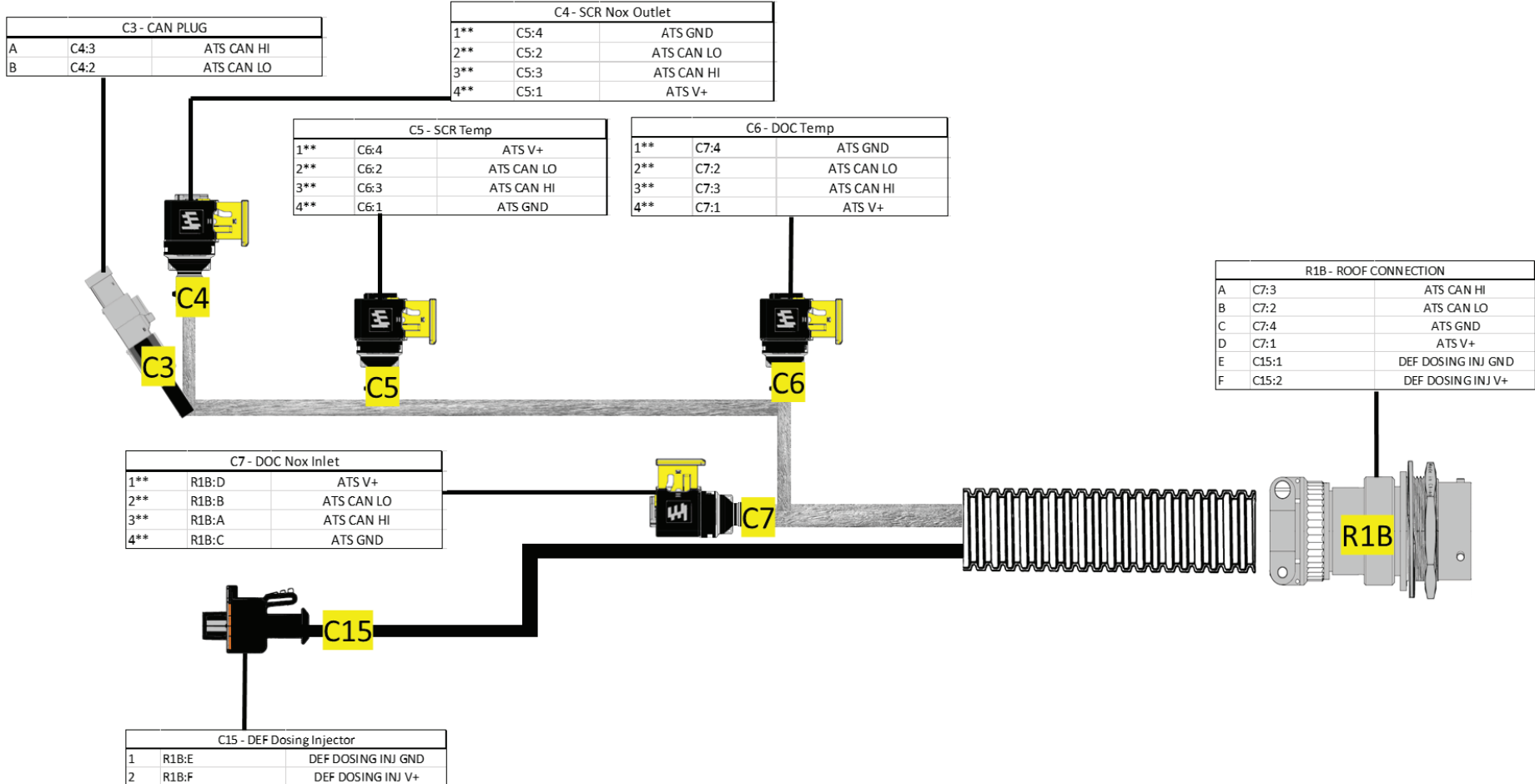


TO	FROM	DESCRIPTION	WIRE SIZE/COLOR	TO	FROM	DESCRIPTION	WIRE SIZE/COLOR
1	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	65	BUSS#17-3	VOLUME +	B-WHT 18/19 AWG
2	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	66	BUSS#17-4	VOLUME -	B-WHT 18/19 AWG
3	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	67			
4	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	68			
5	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	69	BUSS 10	GND BUSS	GREEN 18 TXL
6	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG	70	DEF 1 (F)		
7	MVEC #1-H	VIBRATOR V+	RED 16 AWG	71	DEF 2 (H)		
8	MVEC #1-H	VIBRATOR V+	RED 16 AWG	72	DEF 3 (F)		
9	BUSS#1-3	KEY PWR BUSS	RED 18/19 AWG	73	BUSS#13-8	FAST CHANGE	BLK 18/19 AWG
10	TIER4 RELAY (H)	STARTER RELAY	RED 18/19 AWG	74	BUSS#13-9	REVERSE VALVE	BLK 18/19 AWG
11	MVEC#1-E	HORN V+	RED 16 AWG	75	BUSS#13-10	GND (OPTION)	BLK 18/19 AWG
12	MVEC#1-F	HORN V+	RED 16 AWG	76	BUSS#13-11	CHEM PUMP GND	BLK 18/19 AWG
13	XC10 C2-24	STROKE	HAYWARD BAKER	77	BUSS#12-11	E-STOP LIGHT	BLK 18/19 AWG
14	BUSS#14-2	PROX -A	HAYWARD BAKER	78	BUSS#12-10	SAFETY VALVE 1	BLK 18/19 AWG
15	BUSS-15-4	PROX-B	HAYWARD BAKER	79	BUSS#12-9	SAFETY VALVE 2	BLK 18/19 AWG
16				80	BUSS#12-8	S-TUBE COIL (A)	BLK 18/19 AWG
17	BUSS#8-3	GRATE SENSOR	RED 18/19 AWG	81	BUSS#12-7	S-TUBE COIL (B)	BLK 18/19 AWG
18	BUSS#8-1	PROX SENSOR B	RED 18/19 AWG	82	BUSS#12-6	PUMP COIL (A)	BLK 18/19 AWG
19	BUSS#8-2	PROX SENSOR A	RED 18/19 AWG	83	BUSS#12-5	PUMP COIL (B)	BLK 18/19 AWG
20				84	BUSS#13-2	OUTRIGGER (-	BLK 18/19 AWG
21				85	BUSS#13-7	OUTRIGGER (-	BLK 18/19 AWG
22	BUSS#14-4	HOT OIL SENSOR	RED 18/19 AWG	86			
23				87	BUSS#12-2	GND BUSS	BLK 18/19 AWG
24				88			
25				89			
26				90	BUSS 10	GROUND BUSS	BLK 18/19 AWG
27	XC10 C2-6	STUBE DUMP 2	RED 18/19 AWG	91			
28				92			
29	XC10 C1-8	GRATE SENSOR	WHT 18/19 AWG	93			
30	BUSS#14-1	PROX SENSOR A	WHT 18/19 AWG	94	BUSS#7-1	POWER OPTION	RED 18/19 AWG
31	BUSS#15-3	PROX SENSOR B	WHT 18/19 AWG	95			
32				96			
33				97			
34				98			
35	BUSS#7-3	GREASER 12V+	RED 18/19 AWG	99			
36	KEY SWITCH -6	OPTION (12V+	RED 18/19 AWG	100	TIER 4-G	TIER 4 RELAY	WHT 18/19 AWG
37				101	TIER 4-A	TIER 4 RELAY	WHT 18/19 AWG
38	BUSS#8-4	V+ OPTION	RED 18/19 AWG	102	BUSS#16	DEF 1,2,3 GND	GRN 18/19 AWG
39	BUSS#8-5	HOT OIL VALVE	RED 18/19 AWG	103	DEF MOD-C	DEF MOD RELAY	RED 18/19 AWG
40				104			
41	BUSS#13-5	GRATE SENSOR	BLK 18/19 AWG	105			
42	BUSS#13-4	PROX SENSOR B	BLK 18/19 AWG	106	BUSS 2	KEY-ON	RED 18/19 AWG
43	BUSS#13-3	PROX SENSOR A	BLK 18/19 AWG	107	XC10 C1-35	HOT OIL VALVE	RED 18/19 AWG
44		CHEMICAL		108	XC10 C1-12	PWM SIGNAL	WHT 18/19 AWG
45	XC10 C2-23	FAST CHANGE	RED 18/19 AWG	109	BUSS#11	VIBRATOR GND	BLK 18/19 AWG
46	XC10 C2-12	REVERSE VALVE	RED 18/19 AWG	110			
47	XC10 C1-1	PWM SIGNAL (V+)	RED 18/19 AWG	111	BUSS#11-3	HORN GND	BLK 18/19 AWG
48	XC10 C1-13	CHEM PUMP	WHT 18/19 AWG	112	BUSS#11-2	HORN GND	BLK 18/19 AWG
49	XC10 C1-25	E-STOP LIGHT V+	WHT 18/19 AWG	113			
50	XC10 C1-26	STUBE DUMP 1	RED 18/19 AWG	114			
51	XC10 C1-27	REMIX DUMP V+	RED 18/19 AWG	115			
52	XC10 C2-11	S-TUBE COIL-A	RED 18/19 AWG	116			
53	XC10 C2-10	S-TUBE COIL-B	RED 18/19 AWG	117			
54	XC10 C2-9	PUMP COIL-A	RED 18/19 AWG	118	BUSS#7-2	SPARE V+ FUSE	RED 18/19 AWG
55	XC10 C2-8	PUMP COIL-B	RED 18/19 AWG	119	BUSS#8-8	ALT DIODE FEED	RED 18/19 AWG
56	BUSS#8-6	OUTRIGGER	RED 18/19 AWG	120			
57				121	BUSS#12-1,12	GND (BATTERY)	BLK 18/19 AWG
58				122	BUSS#12-1,12	GND (BATTERY)	BLK 18/19 AWG
59				123	BUSS#10-1,12	GND (BATTERY)	BLK 18/19 AWG
60	ATS RELAY (H)	DEF RELAY	RED 18/19 AWG	124	BUSS#11-1,12	GND (BATTERY)	BLK 18/19 AWG
61	DEF MOD RELAY (F)	DEF RELAY	RED 18/19 AWG	125	BUSS#11-8	GND (BATTERY)	BLK 18/19 AWG
62	DEF #1 RELAY (E)	DEF RELAY	RED 18/19 AWG	126	BUSS#11-7	GND (BATTERY)	BLK 18/19 AWG
63	DEF#2 RELAY (F)	DEF RELAY	RED 18/19 AWG	127			
64	DEF#3 RELAY (F)	DEF RELAY	RED 18/19 AWG	128	BUSS#11-9	GND (VIBRATOR)	BLK 18/19 AWG

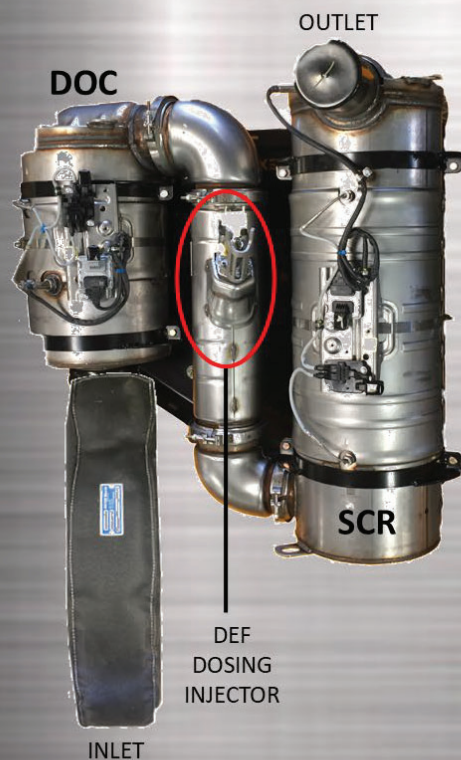
89052 B-SERIES HARNESS



89052-R TIER-4 ROOF HARNESS



REED



TIER4 AFTERTREATMENT TERMINOLOGY

- **DEF**-Diesel exhaust fluid

Specifically (DEF) is an aqueous urea solution made with 32.5% urea and 67.5% deionized water.

- **SCR**-Selective Catalytic Reduction

Is an advance active emission control technology system that injects a liquid-reductant agent (DEF) through a special catalyst into the exhaust stream of a diesel engine.

- **DOC**-Diesel Oxidation Catalyst

DOC is an aftertreatment component that is designed to convert carbon monoxide (CO) and hydrocarbons into carbon dioxide (CO₂) and water.

- **DPF**-Diesel Particulate Filter

A DPF traps particulate matter that's carried in the exhaust stream, preventing it from being released into the atmosphere. Inside the DPF, particulate matter, sometime referred as "soot," is trapped until it is oxidized during regeneration.

- **AMOX**-Ammonia Oxidation Catalyst

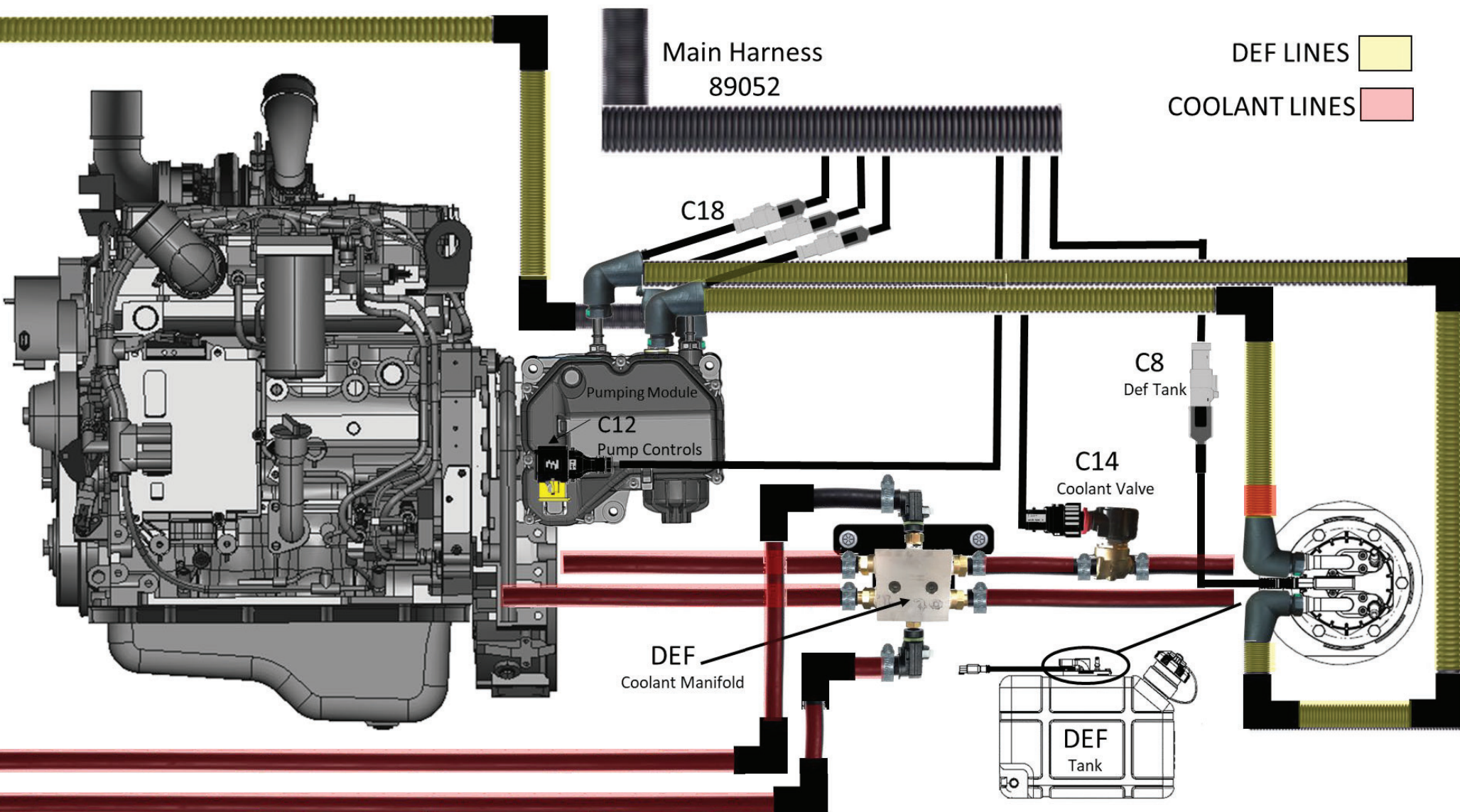
In order to ensure sufficient Nox reduction, a small amount of excess Diesel Exhaust Fluid (DEF) is injected into the exhaust stream. This excess DEF may pass through the Selective Catalytic Reduction (SCR) catalyst as ammonia. To prevent excess ammonia from entering the atmosphere, the exhaust gas flows through an Ammonia Oxidation Catalyst (AMOX) where the ammonia reacts with oxygen in the presence of the catalyst to form nitrogen and water.

- **PETU**-Pump Electronics Tank Unit

The PETU is responsible for storing, controlling and supplying the appropriate quantity of Diesel Exhaust Fluid from the DEF tank to the DEF injector. The Diesel Exhaust fluid is used by the SCR system to reduce Nox emissions to the exhaust

- **NRS**- Nox Reduction System

NRS captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it drives down combustion temperatures and reduces oxides of nitrogen (Nox) emissions.



DEF LINES

COOLANT LINES

DOC NOX INLET

DOC TEMP

Roof Harness 89052-R

R1B

ROOF, TOP

AFTER TREATMENT INLET

C7

C6

C15

DEF DOSING INJECTOR

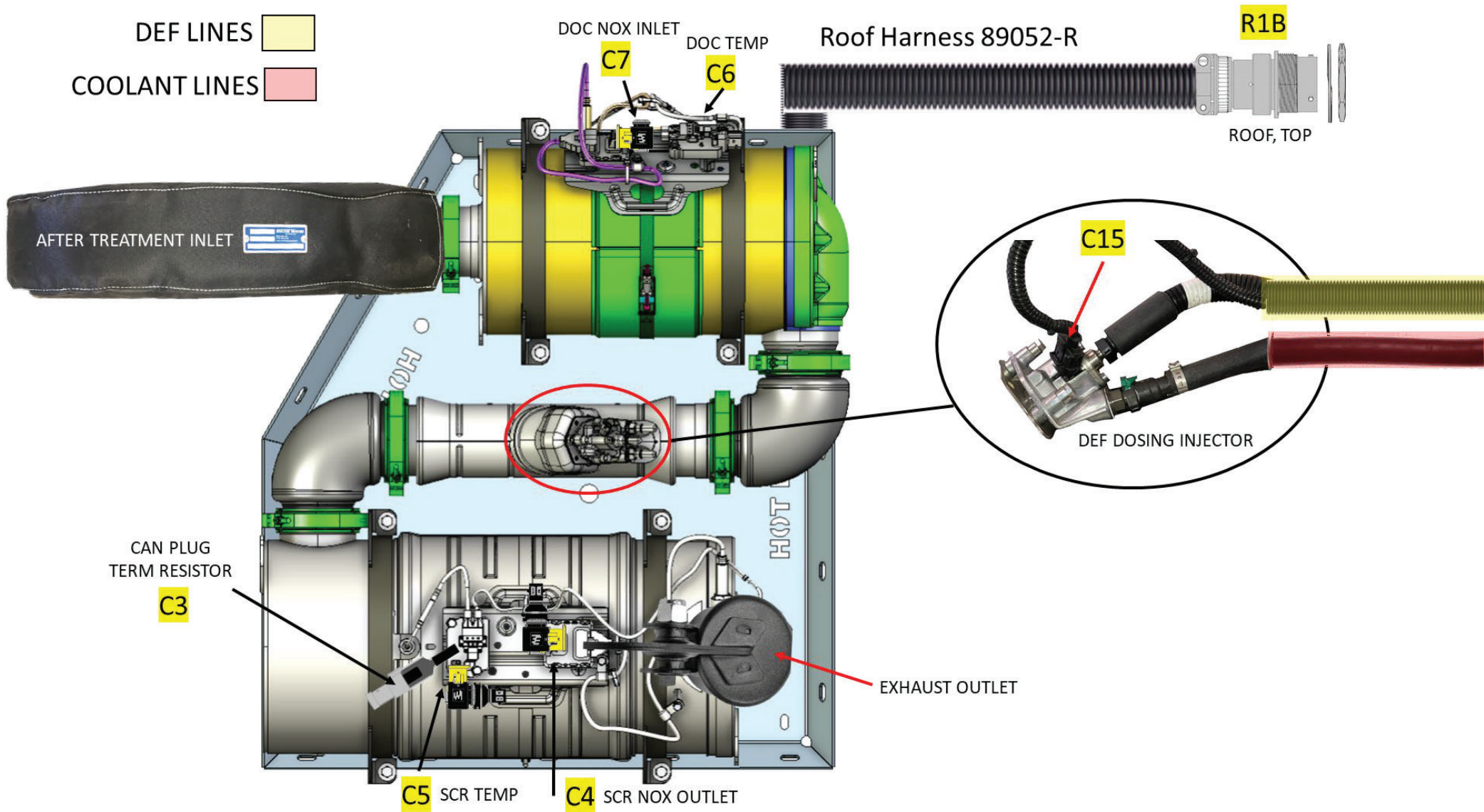
CAN PLUG
TERM RESISTOR

C3

EXHAUST OUTLET

C5 SCR TEMP

C4 SCR NOX OUTLET





TRAILER PLUG PINOUT

