

REED

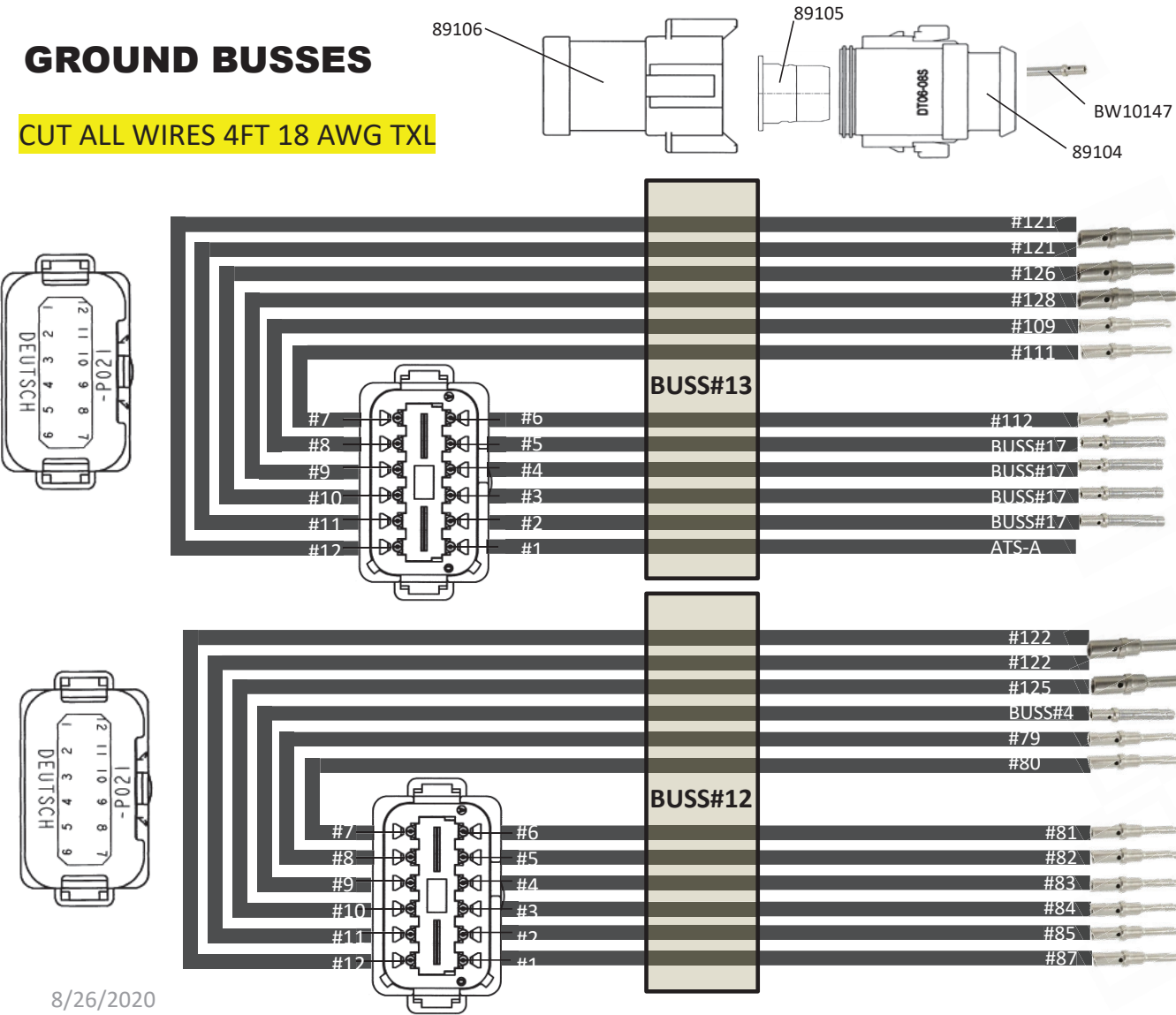
89334-T4 C-SERIES CONTROL PANEL



89113 PCL WIRING HARNESS SCHEMATIC

GROUND BUSSES

CUT ALL WIRES 4FT 18 AWG TXL

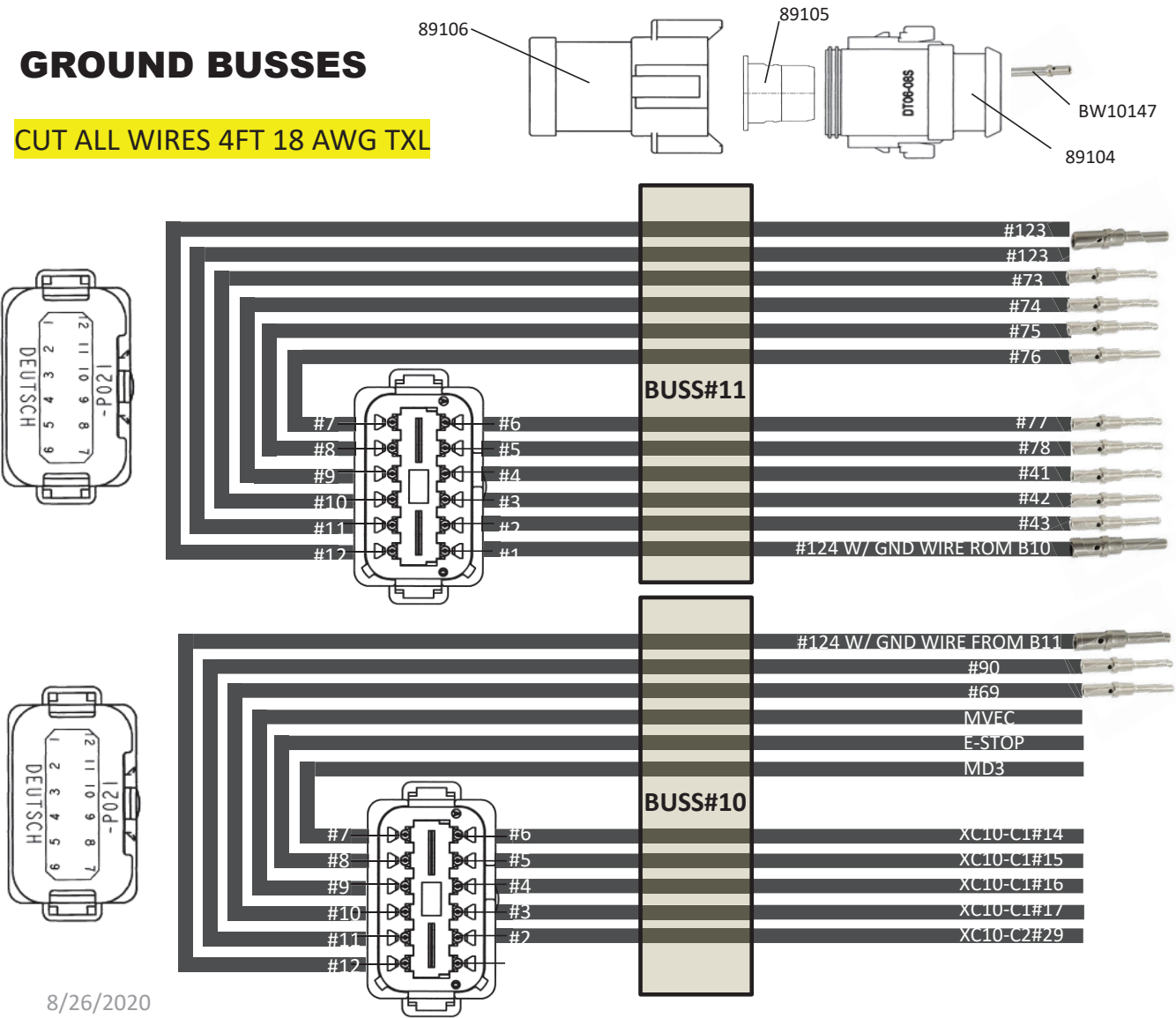


8/26/2020

REV-Q

GROUND BUSSES

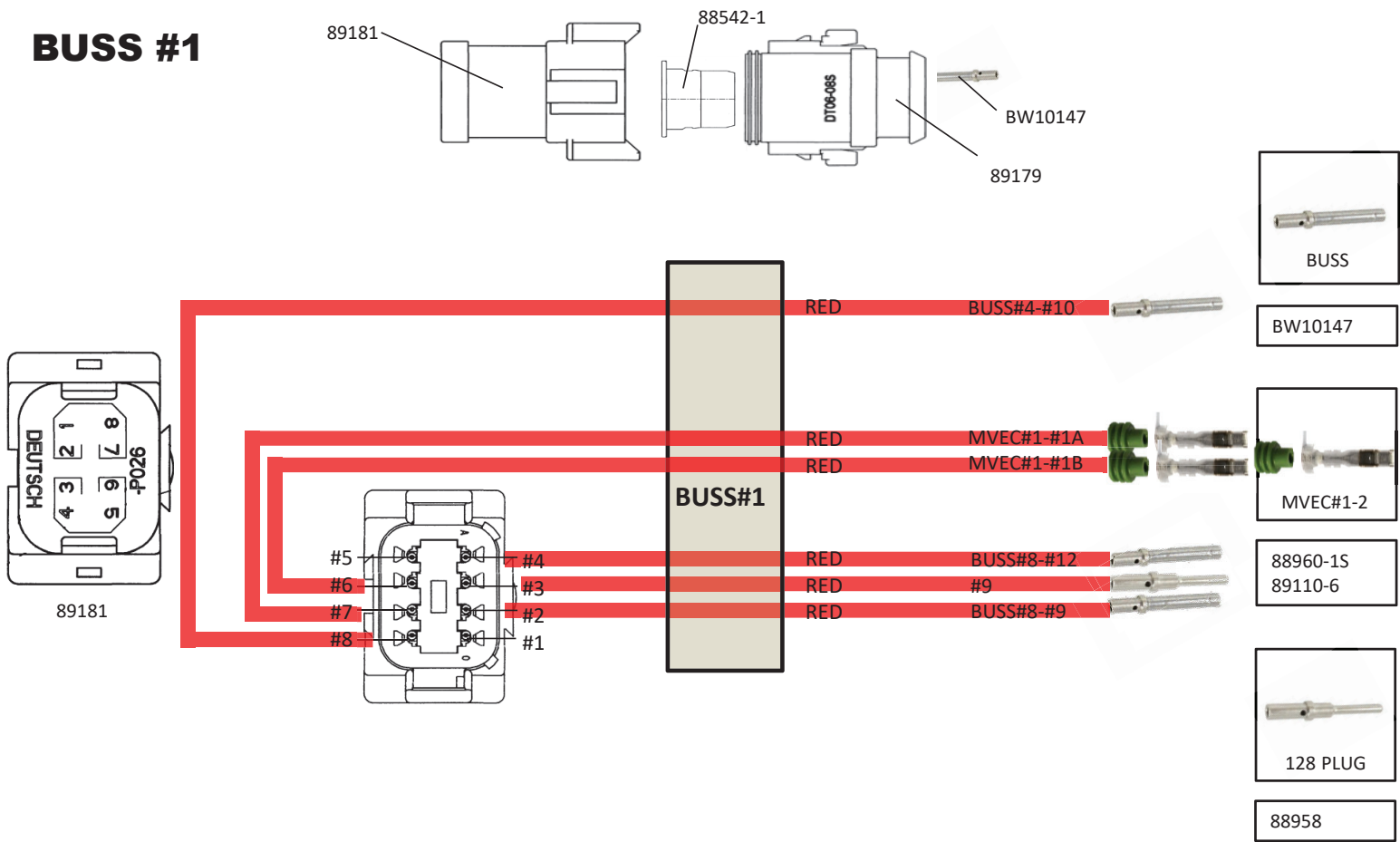
CUT ALL WIRES 4FT 18 AWG TXL



8/26/2020

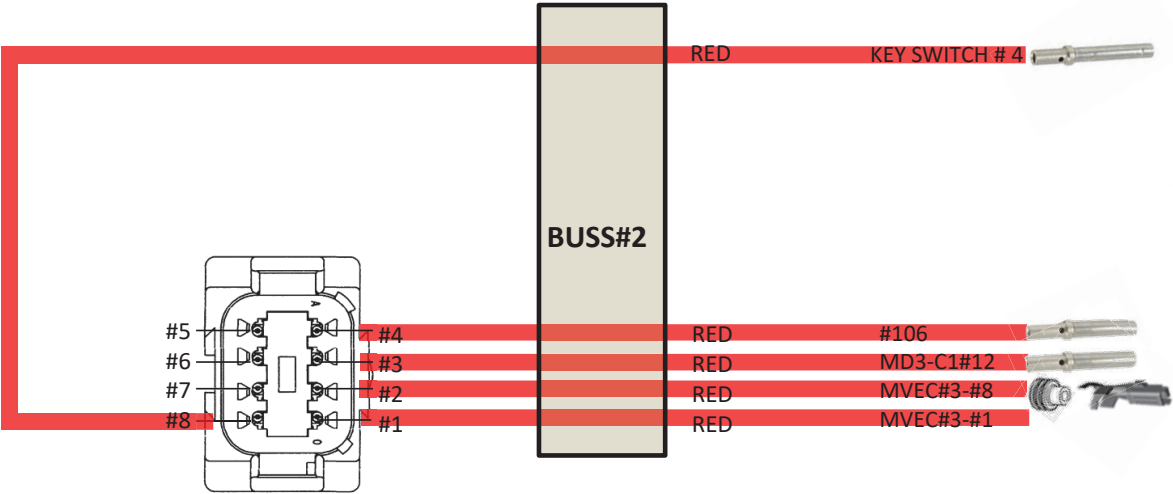
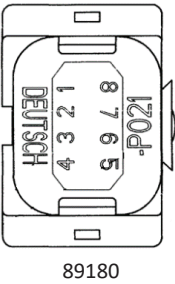
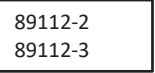
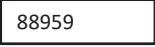
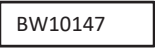
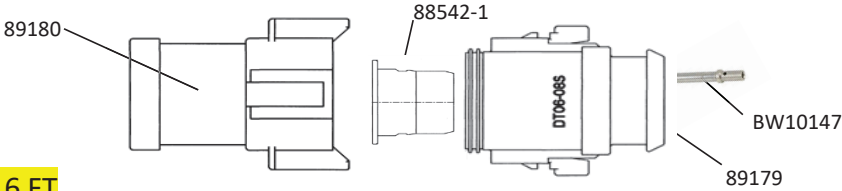
REV-Q

BUSS #1

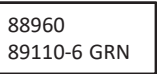
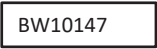
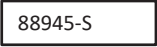
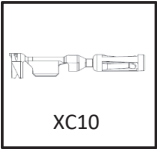
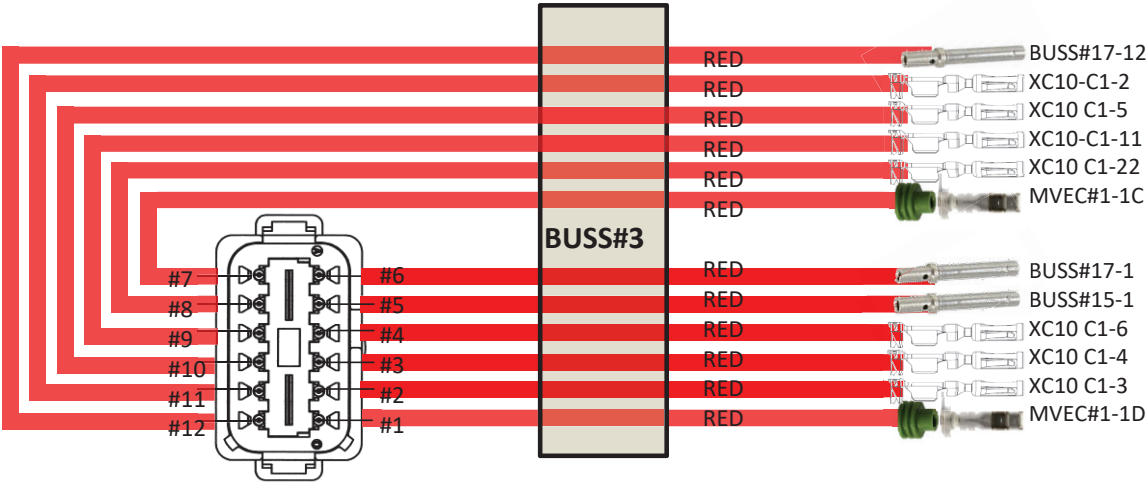
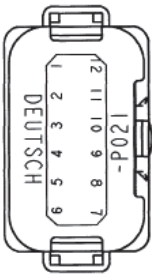
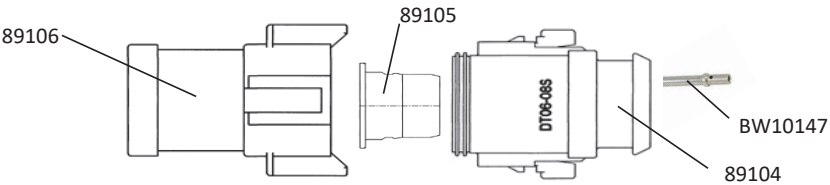


BUSS #2

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

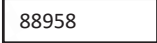
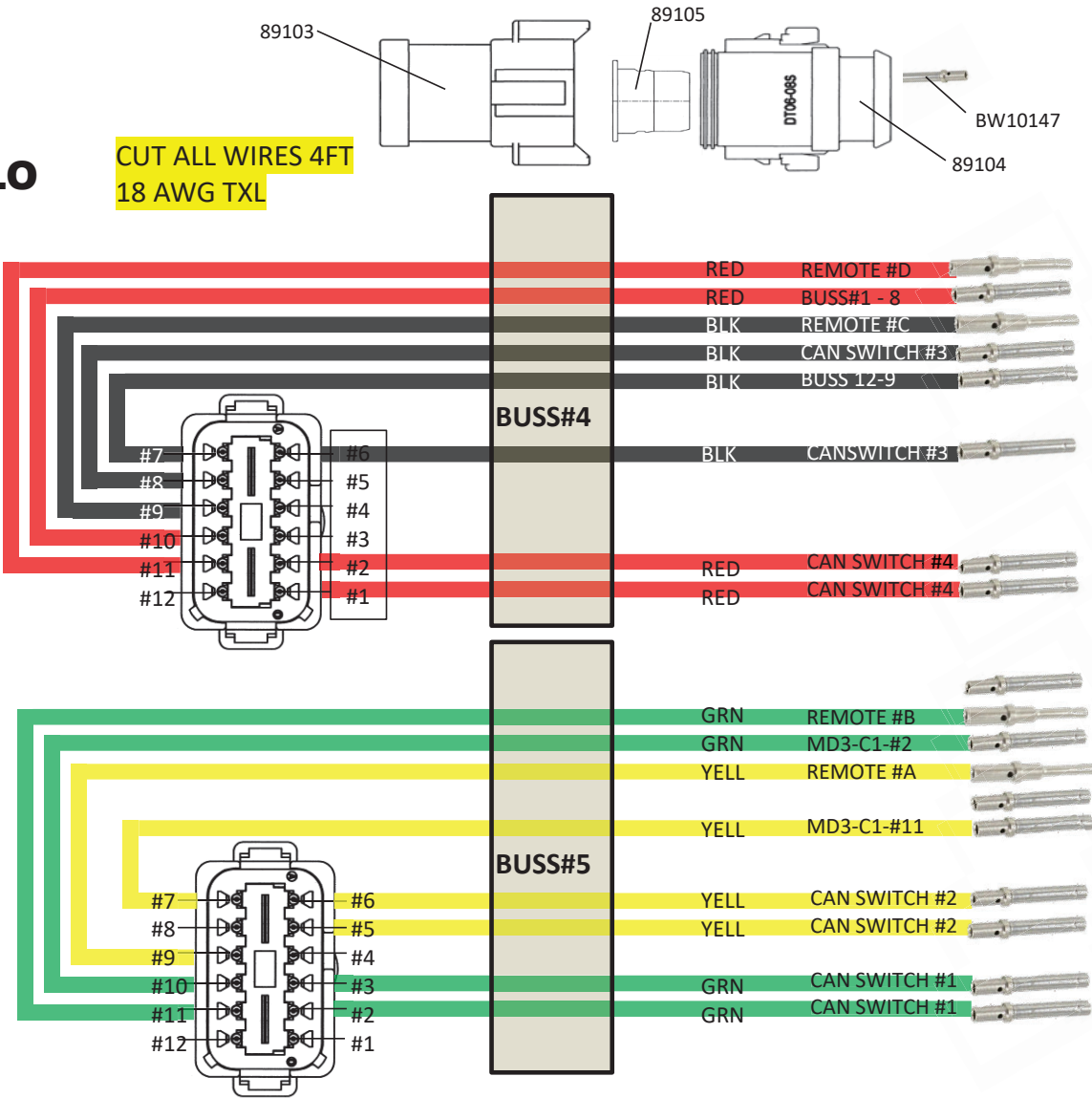
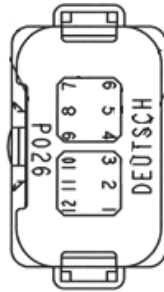
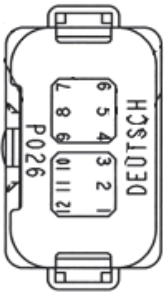


BUSS #3

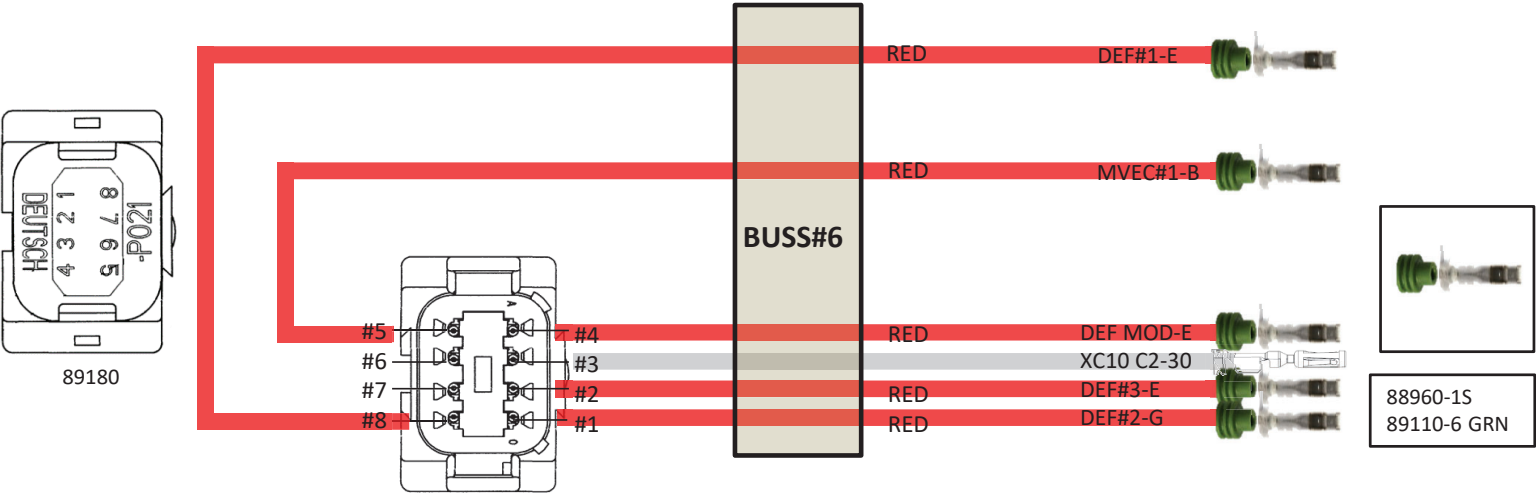
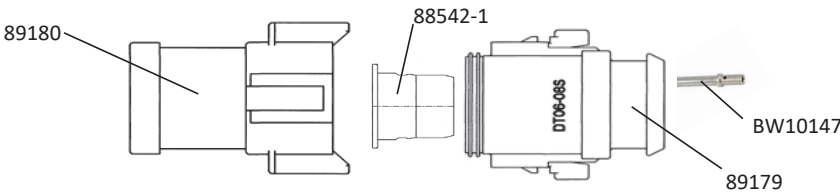


BUSS #4
BUSS #5
CAN HI/LO

CUT ALL WIRES 4FT
18 AWG TXL

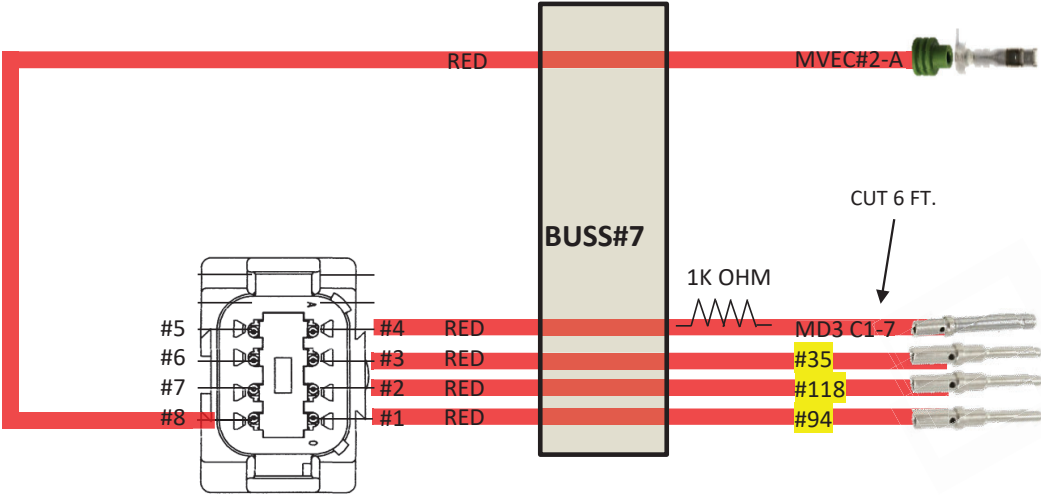
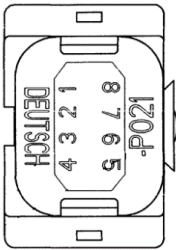
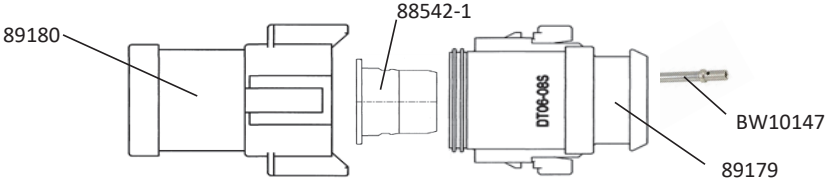


BUSS #6



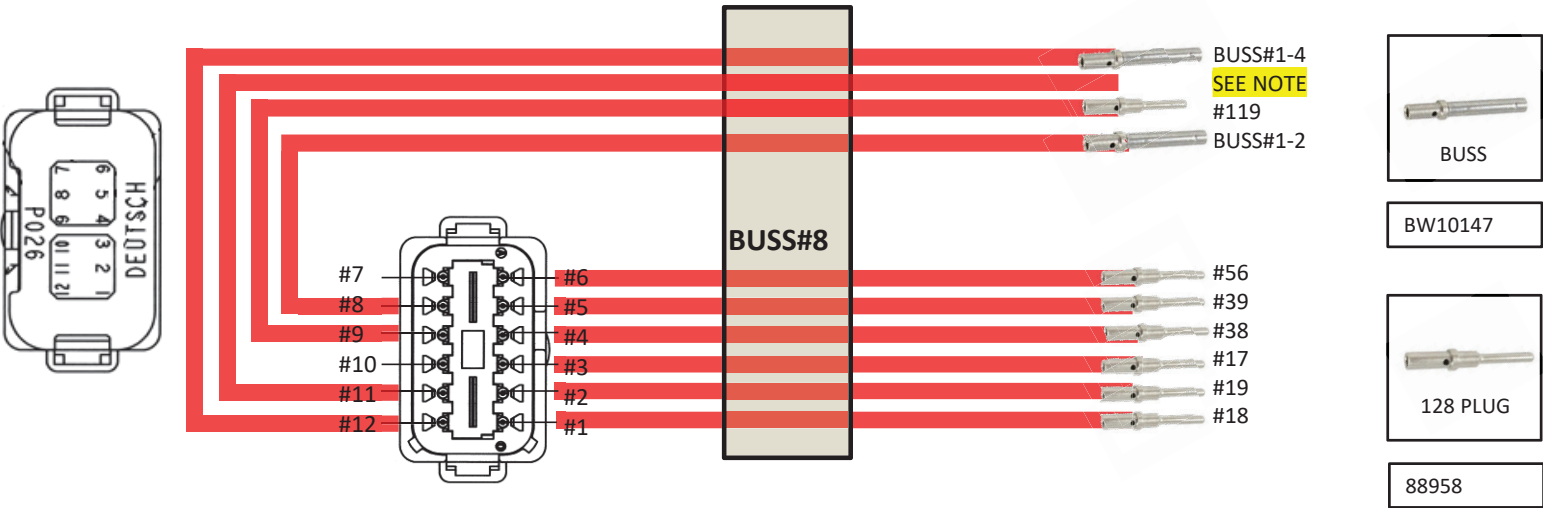
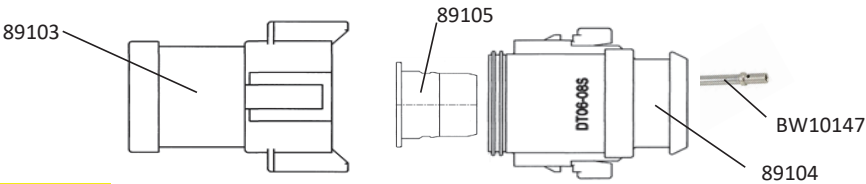
BUSS #7

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



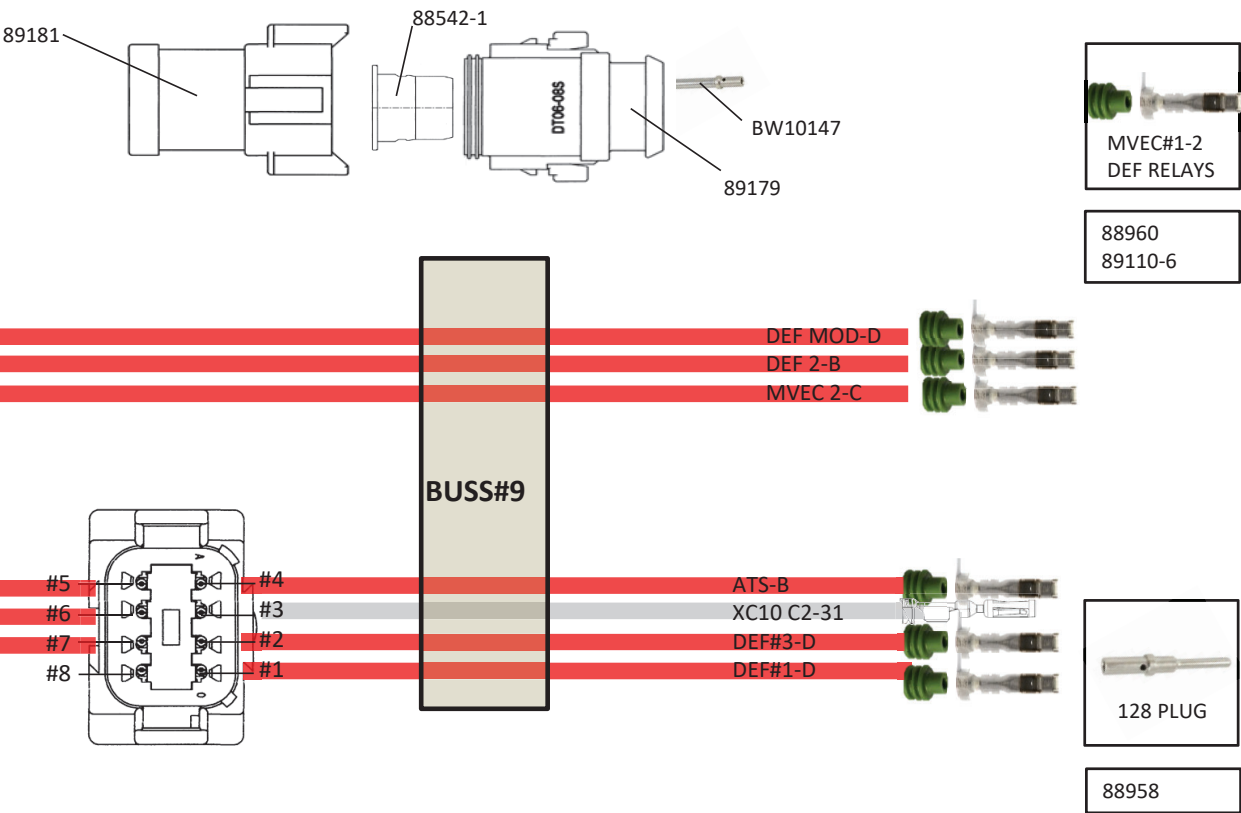
BUSS #8

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

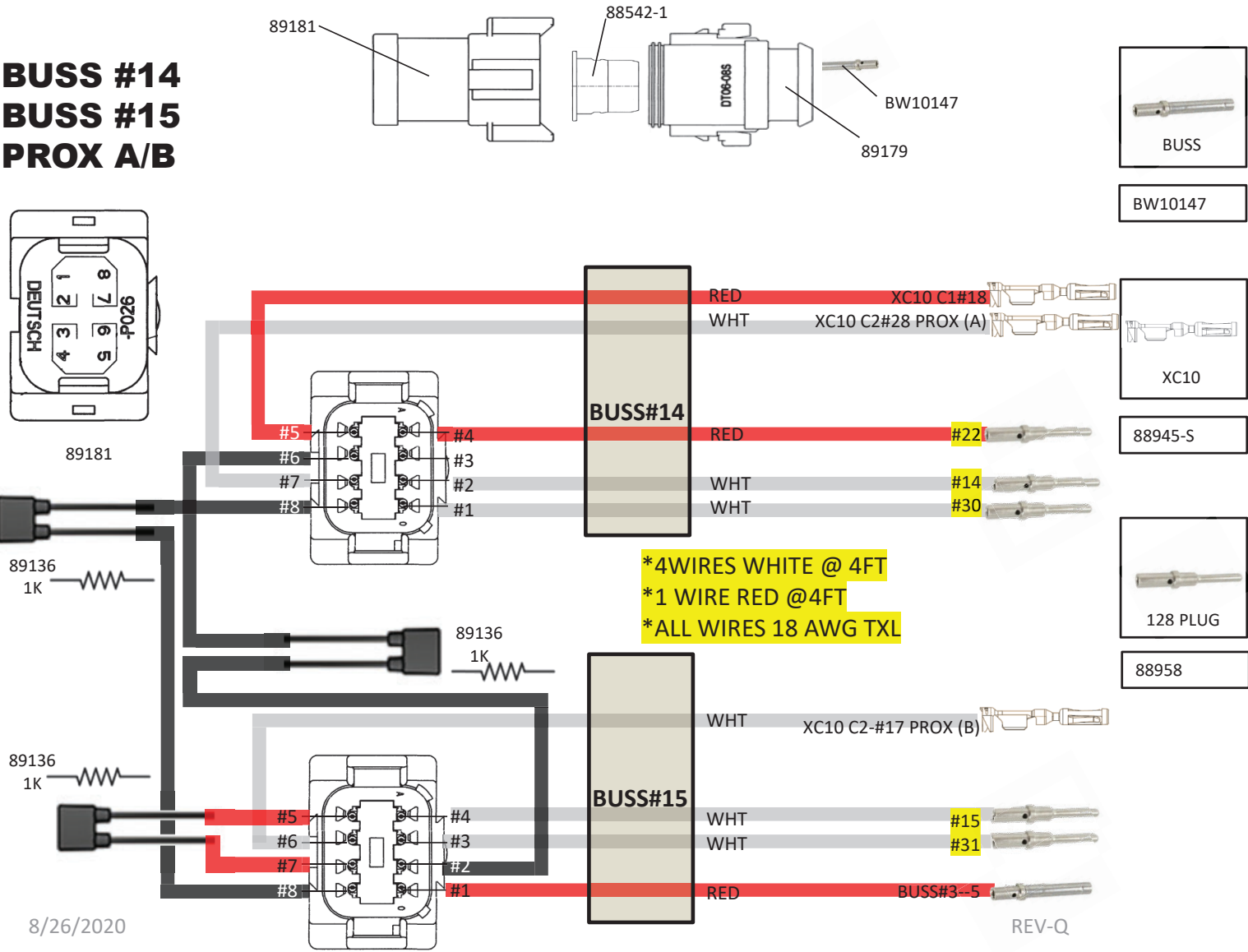


FOR PIN 11
T3: PIN TO TIER3 – 3
T4: PIN TO ATS - G

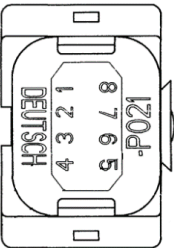
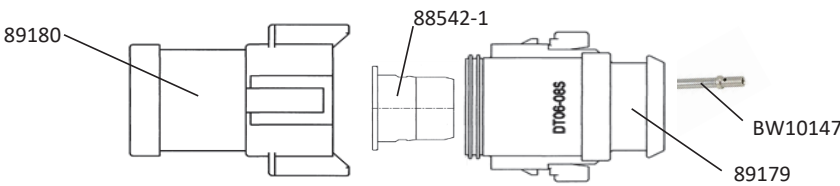
BUSS #9



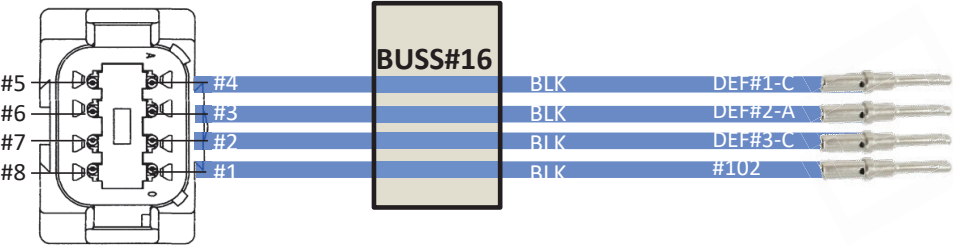
BUSS #14
BUSS #15
PROX A/B



BUSS #16



89180

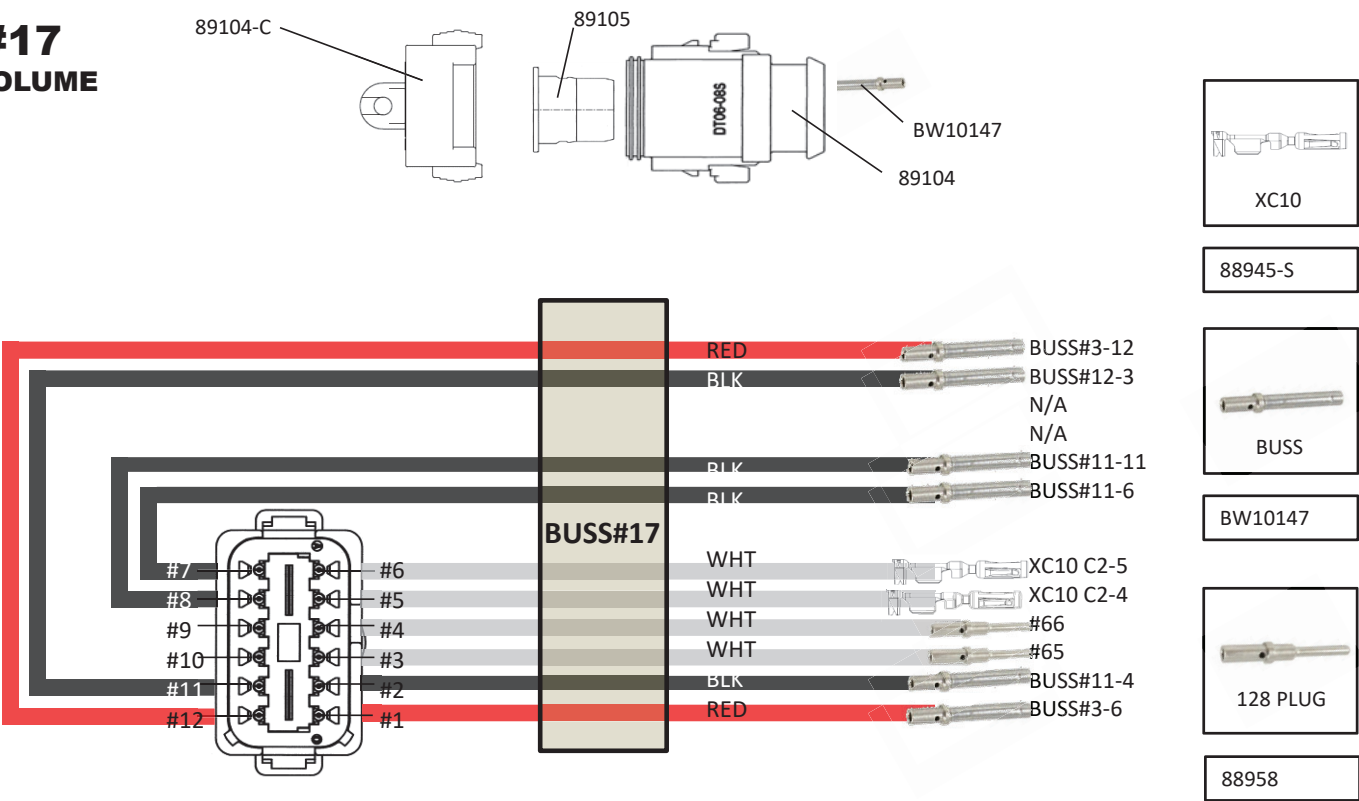


128 PLUG

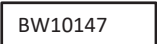
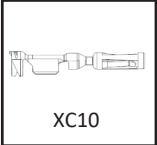
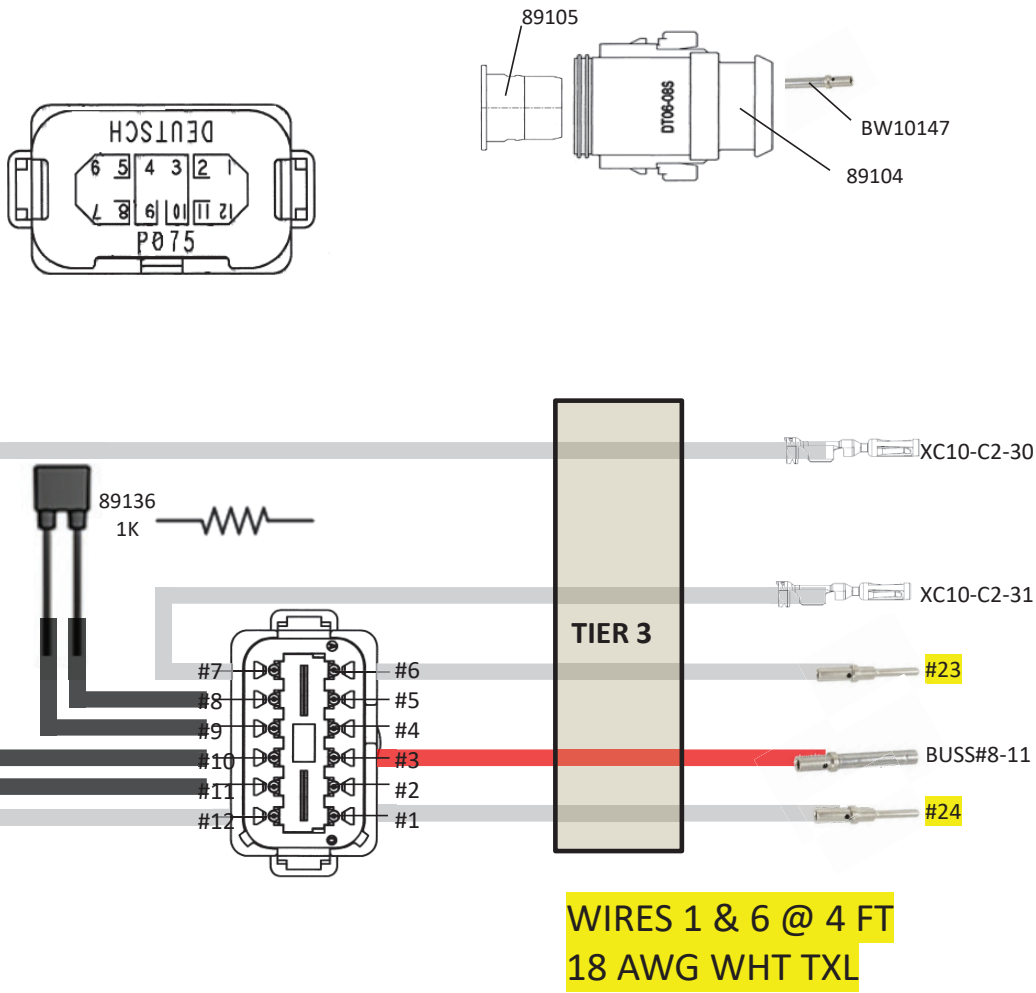


88958

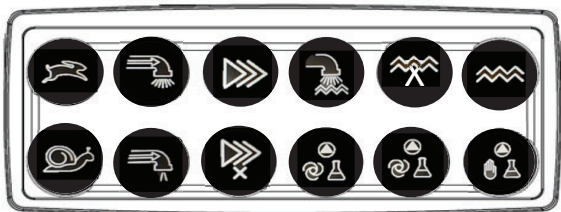
PLUG #17
OPTION VOLUME



TIER 3



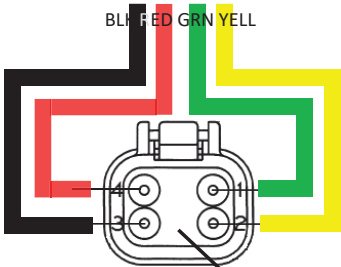
CAN/SWITCHES



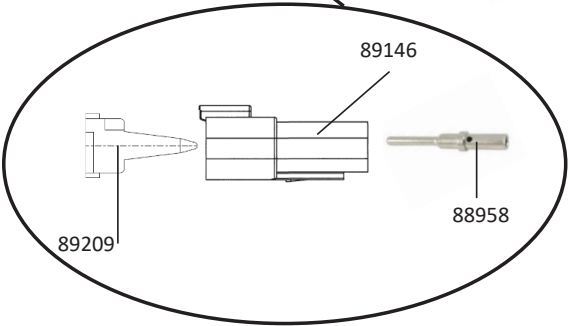
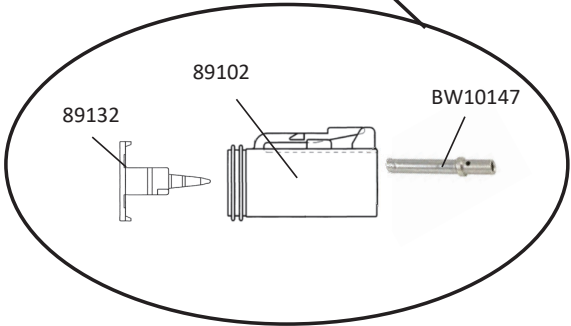
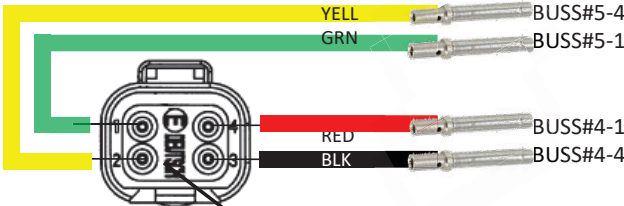
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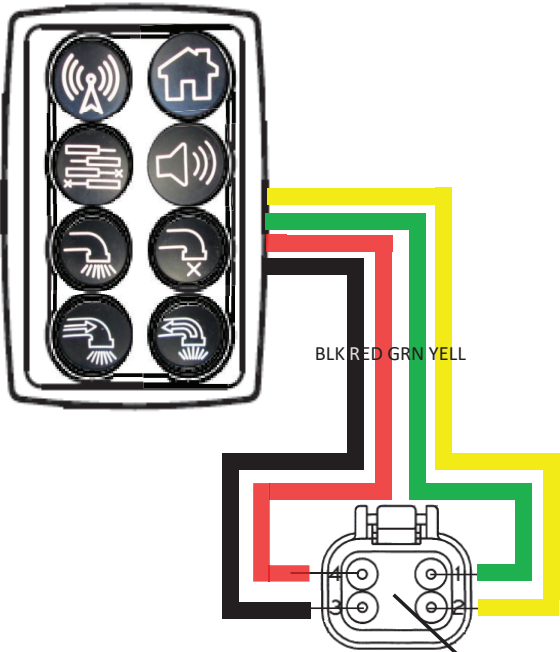
BW10147



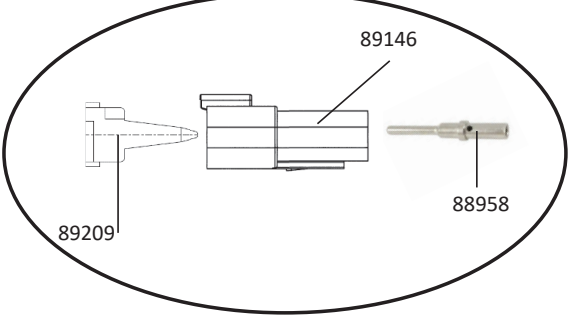
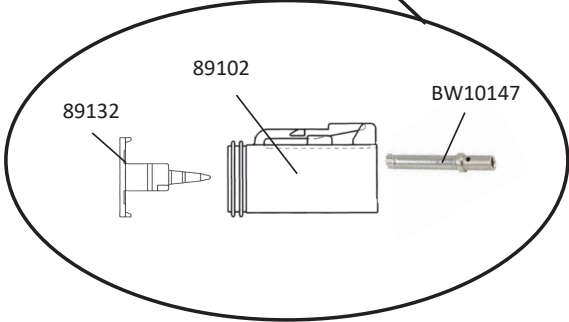
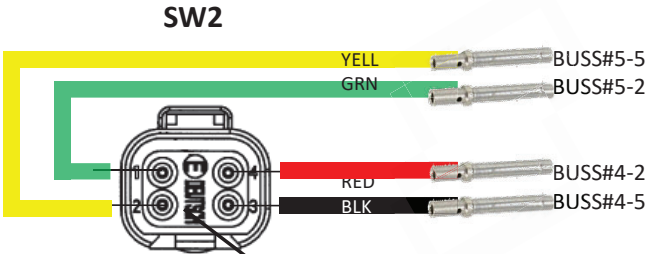
SW1



CAN/SWITCHES



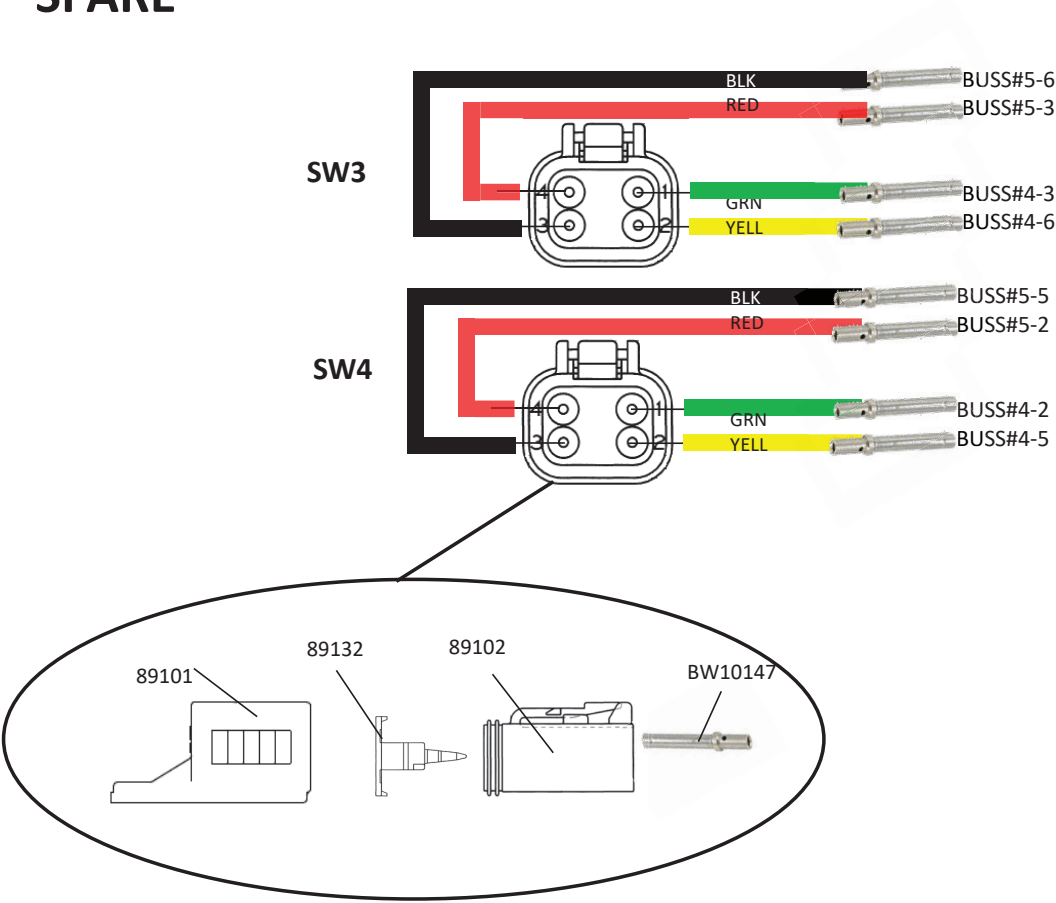
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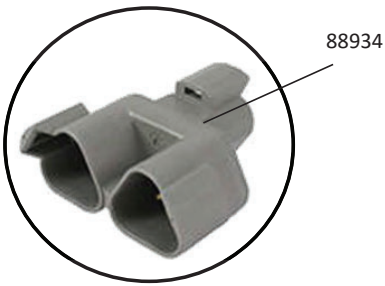
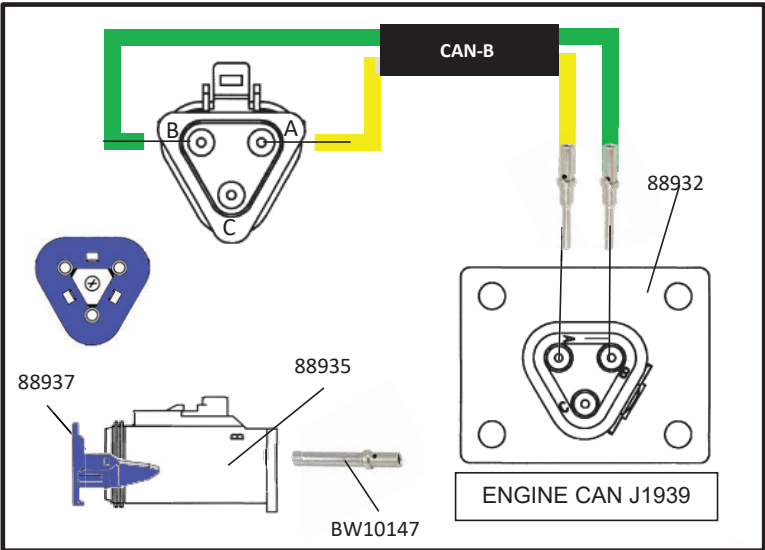
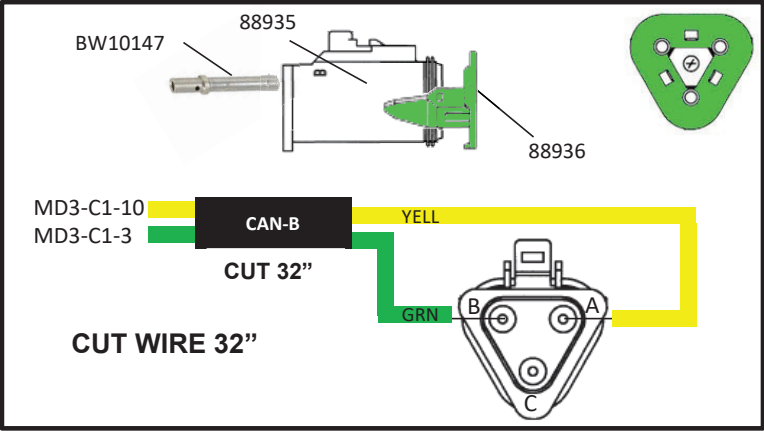
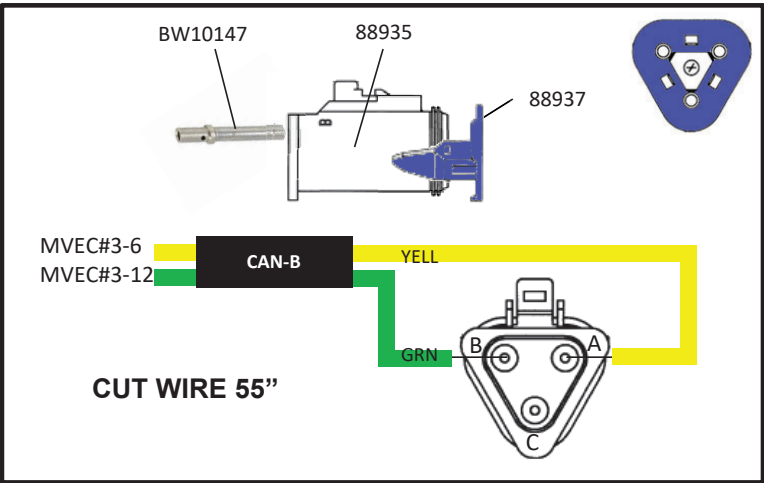
CAN/SWITCHES
SPARE



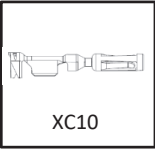
BW10147



CAN/SWITCHES
SPARE



MD3



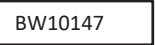
XC10



88945-S



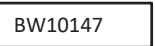
BUSS



BW10147



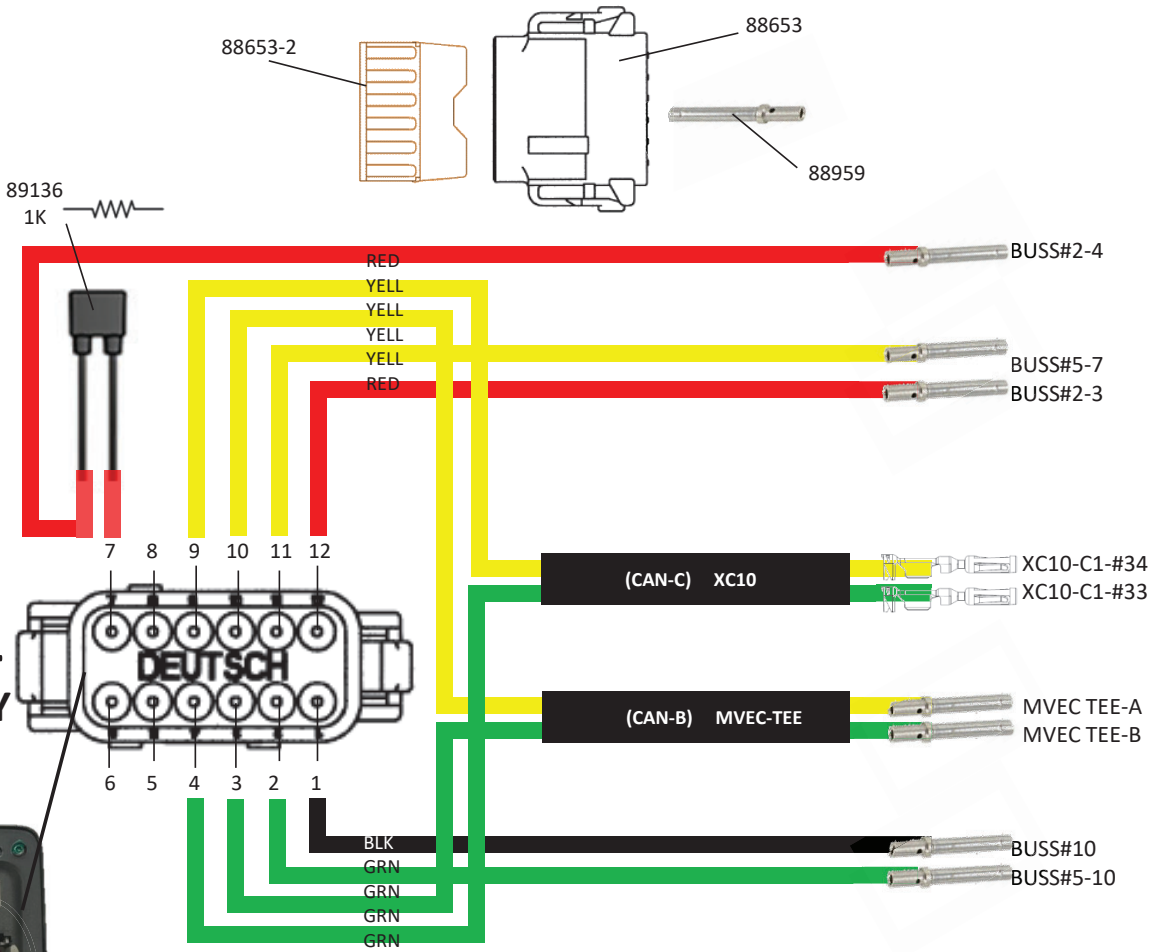
MD3 C1



BW10147



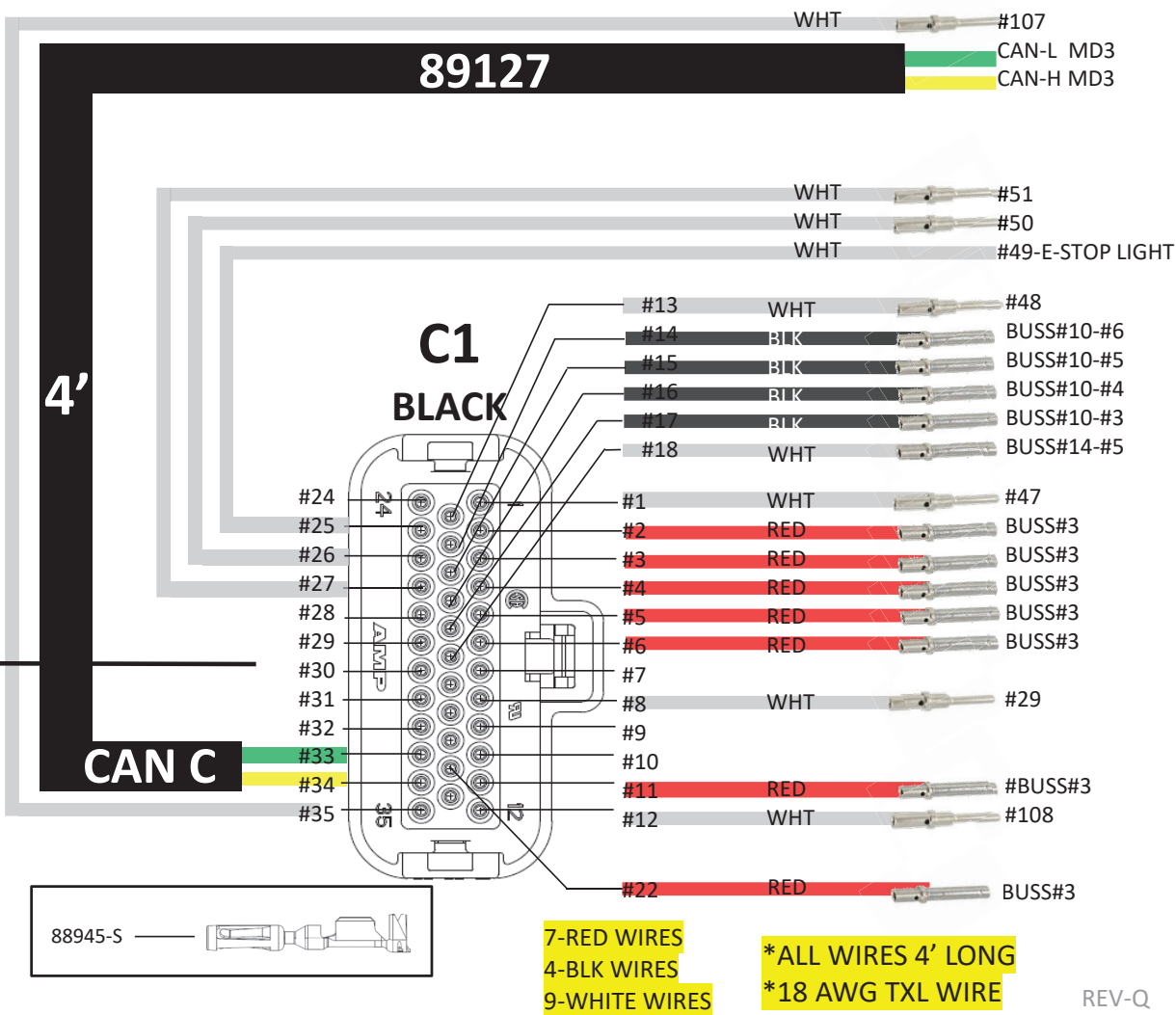
C1
GRY



8/26/2020

REV-Q

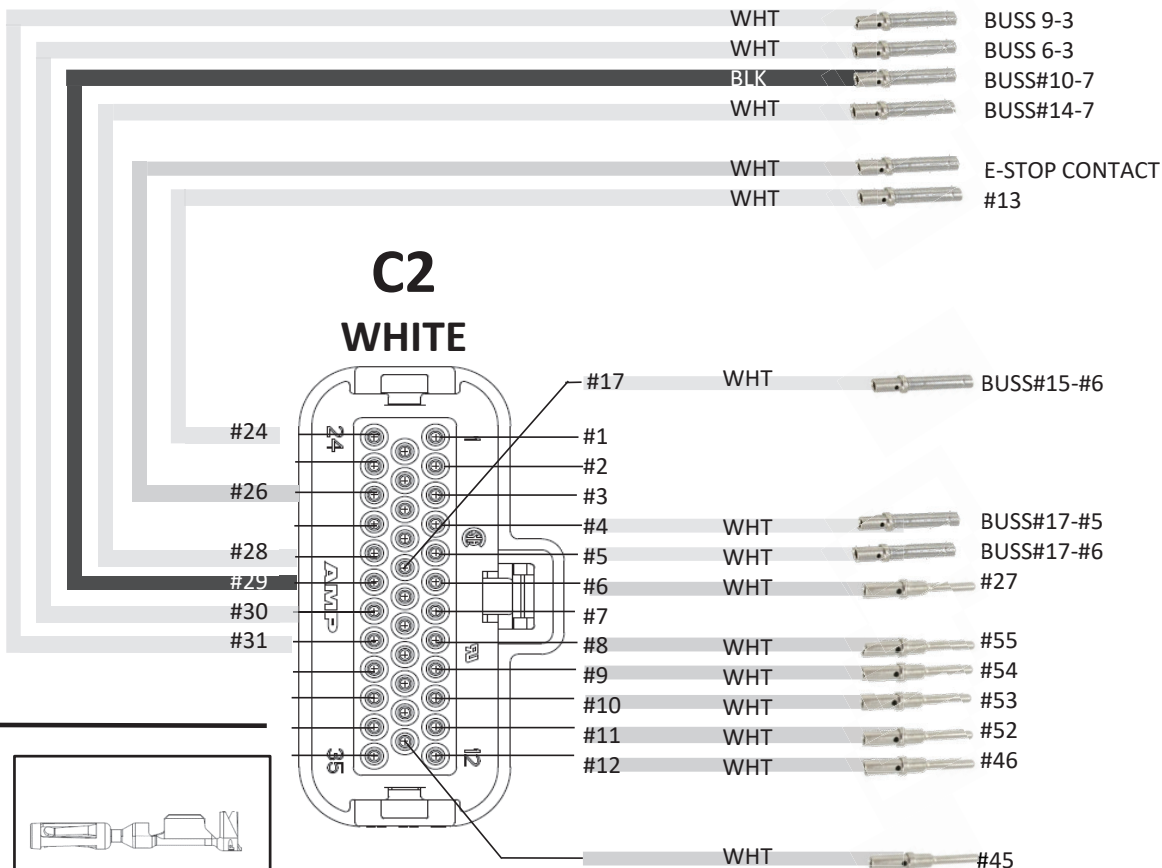
XC10



8/26/2020

REV-Q

XC10

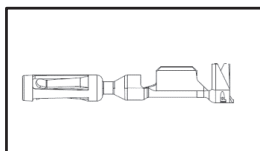


128 PLUG

88958



BW10147



88945-S

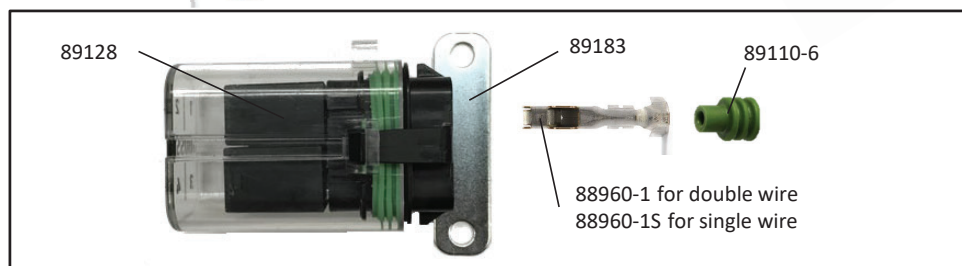
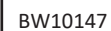
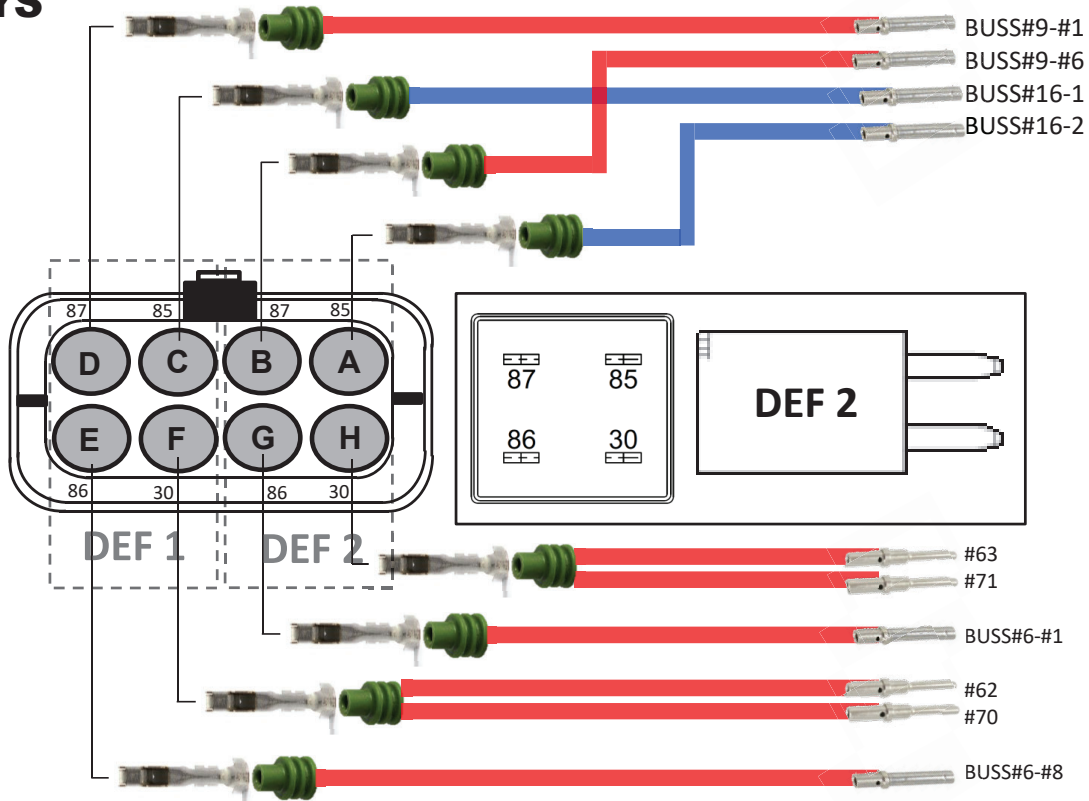
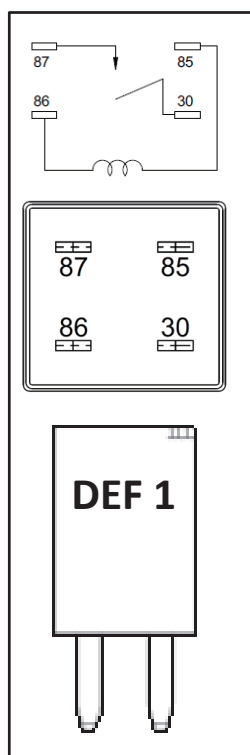
1-BLK WIRE
13- WHT WIRES

* ALL WIRES 4' LONG
* 18 AWG TXL WIRE

8/26/2020

REV-Q

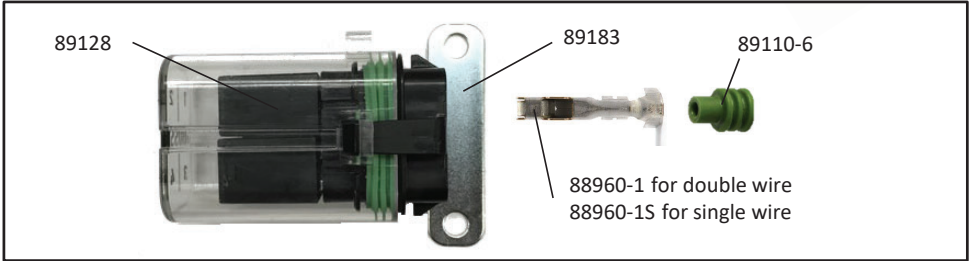
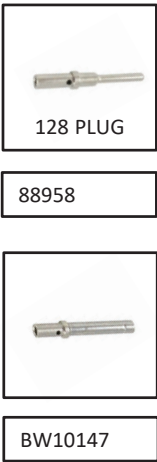
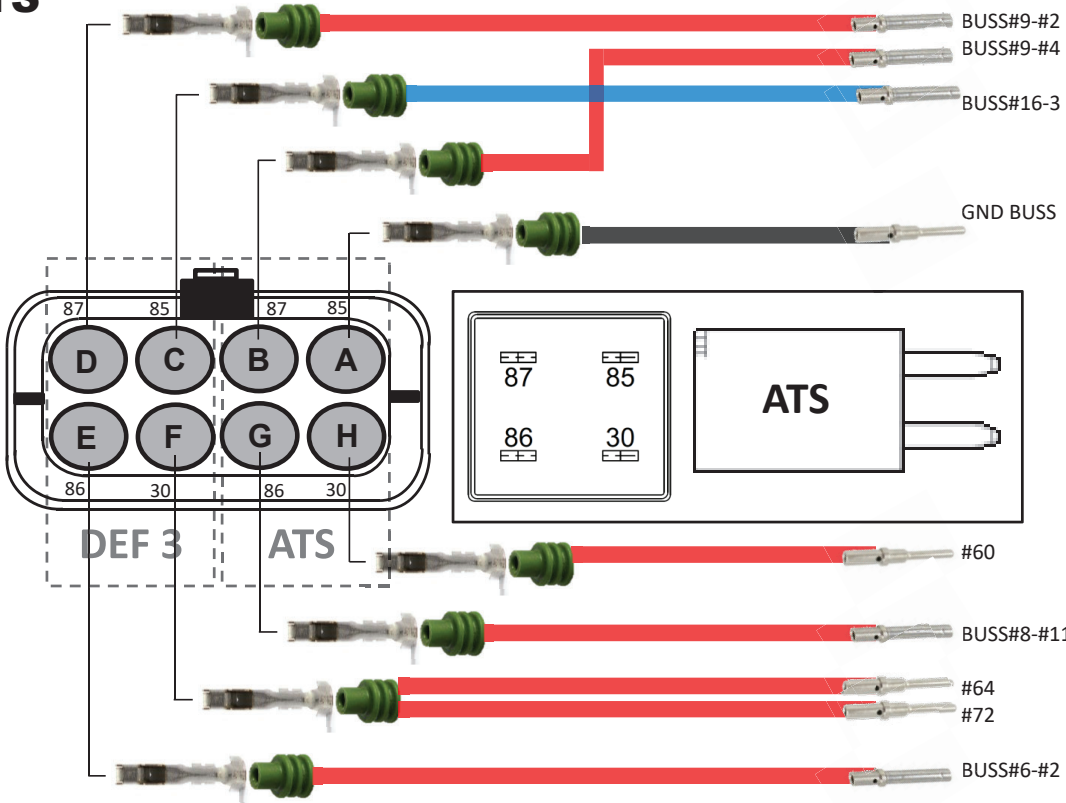
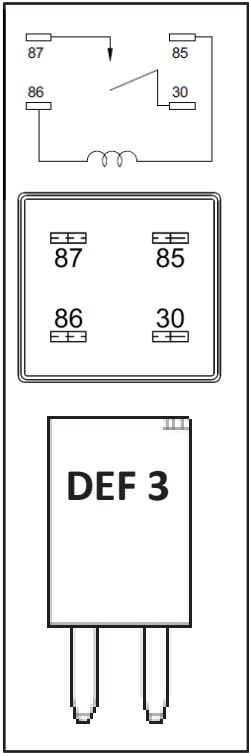
DEF 1
DEF 2



CUT ALL WIRES
4FT 18 AWG TXL

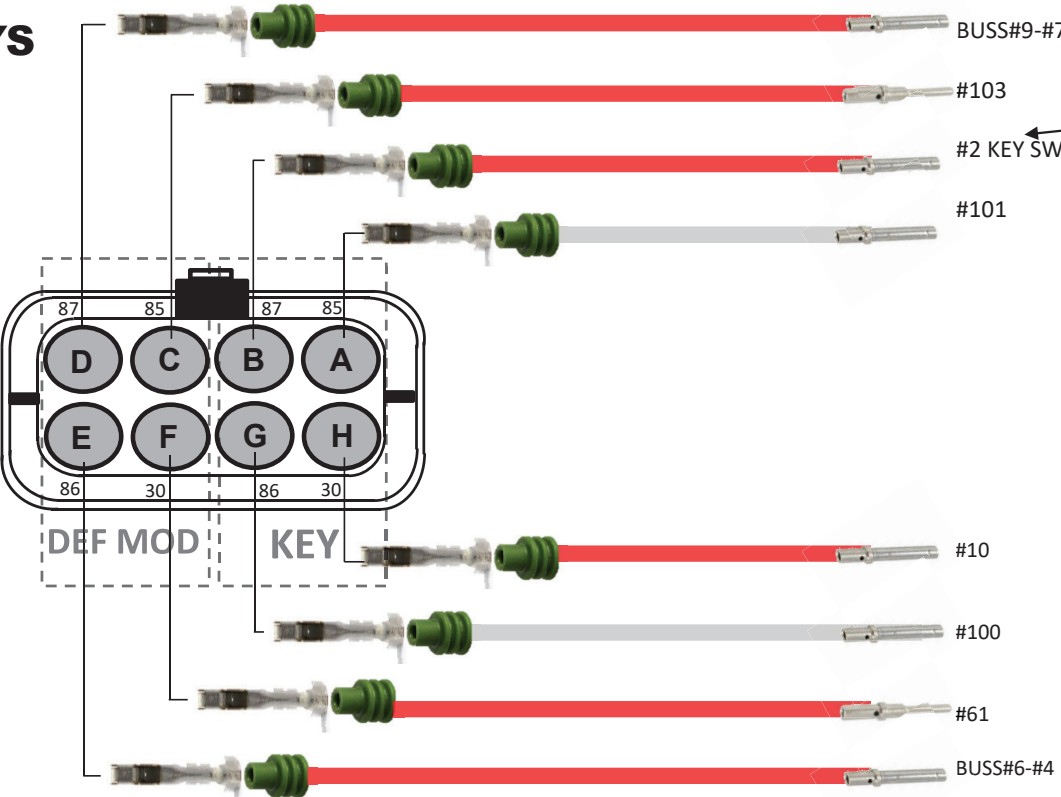
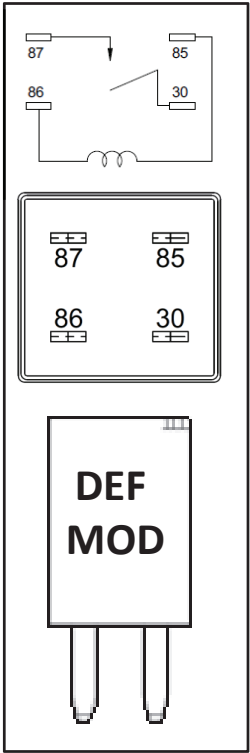
DEF RELAYS

DEF 3
ATS



CUT ALL WIRES
4FT 18 AWG TXL

DEF RELAYS
DEF MOD



CUT WIRES
6FT 18 AWG TXL

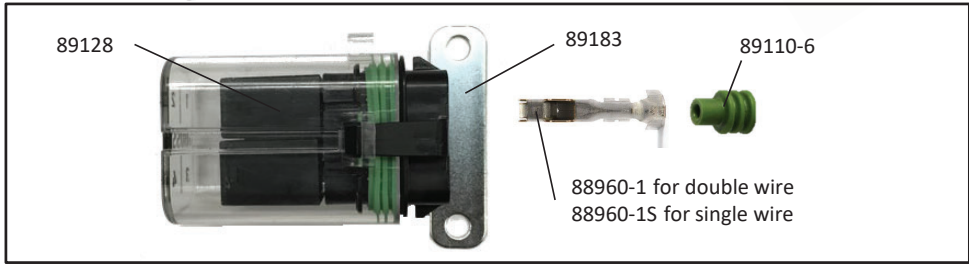


88958

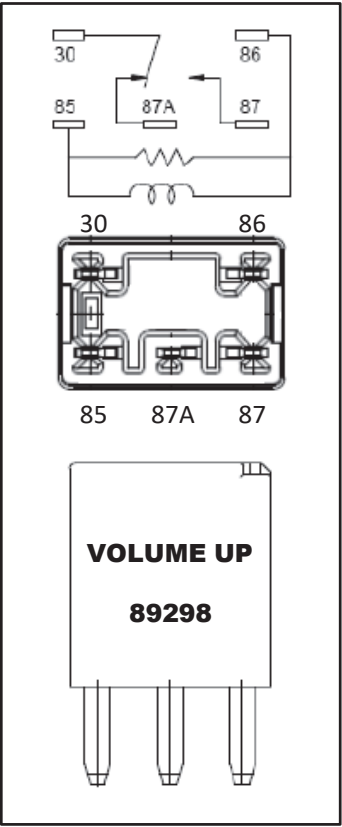


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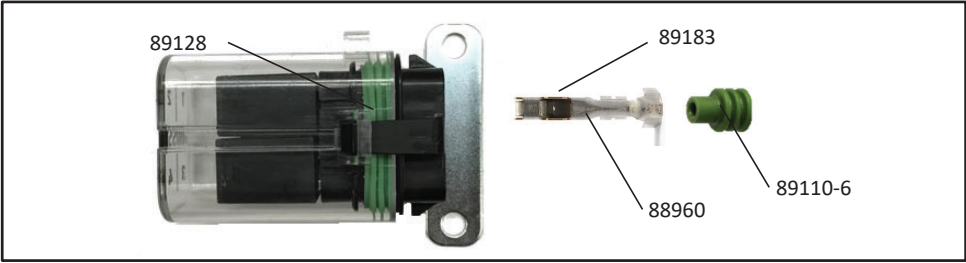
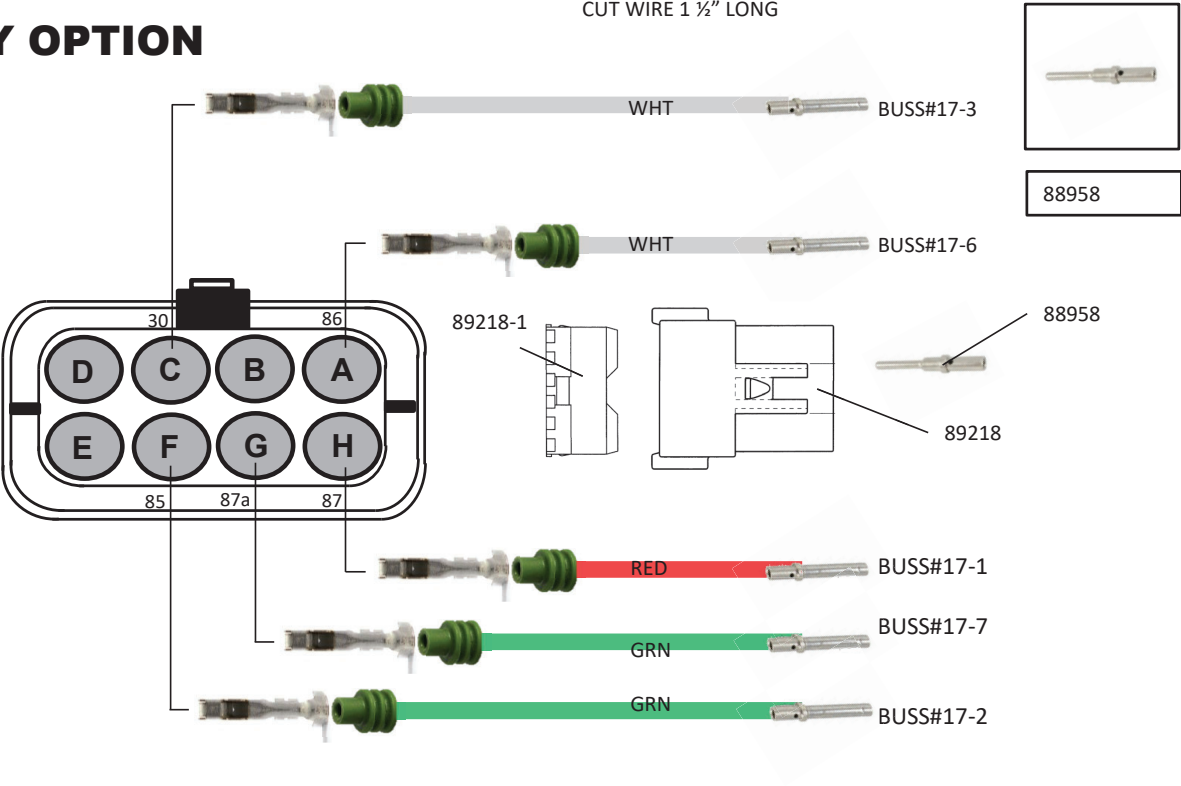
CUT ALL WIRES
4FT 18 AWG TXL



VOLUME RELAY OPTION (UP) RELAY



CUT WIRE 1 1/2" LONG

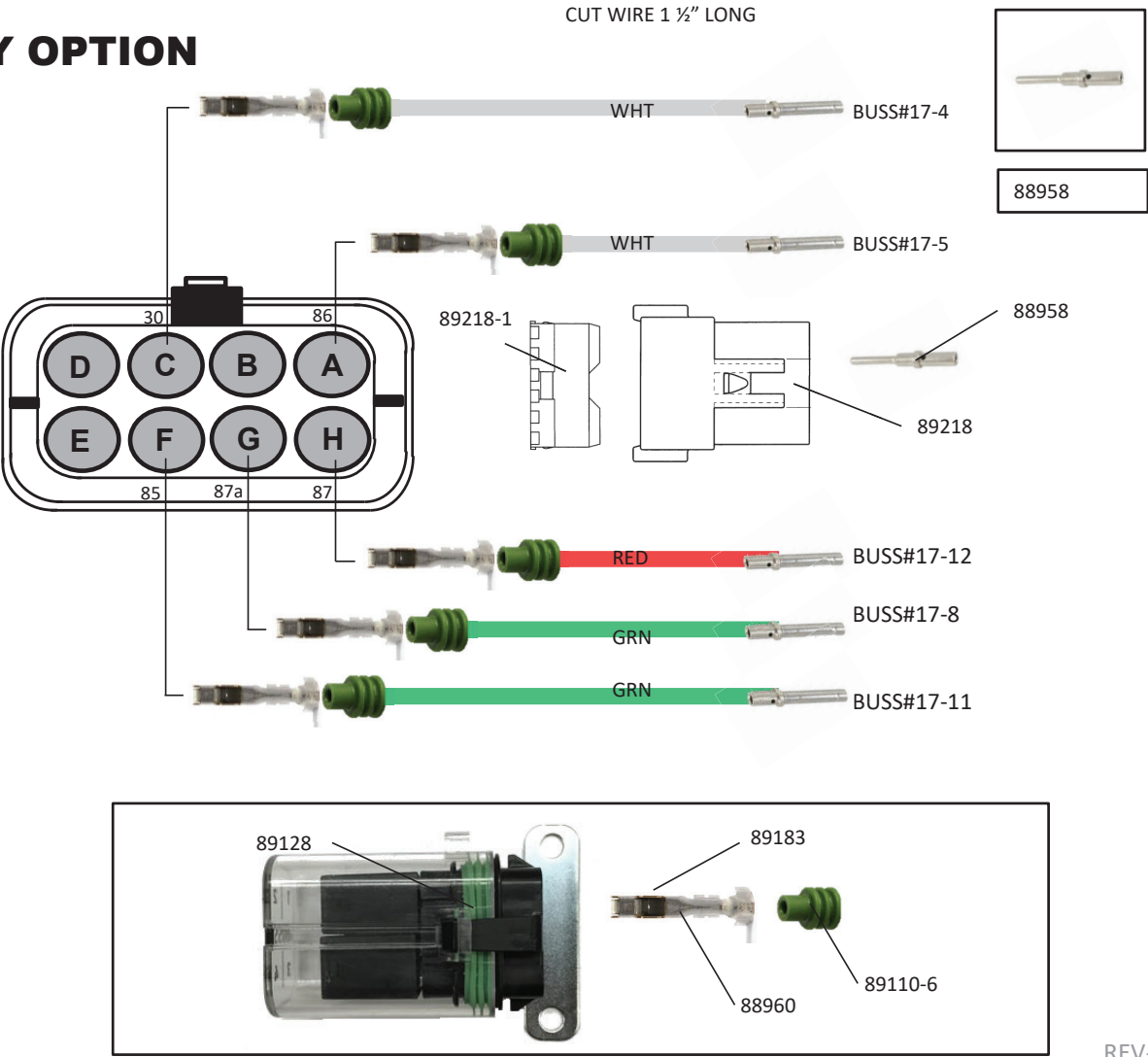
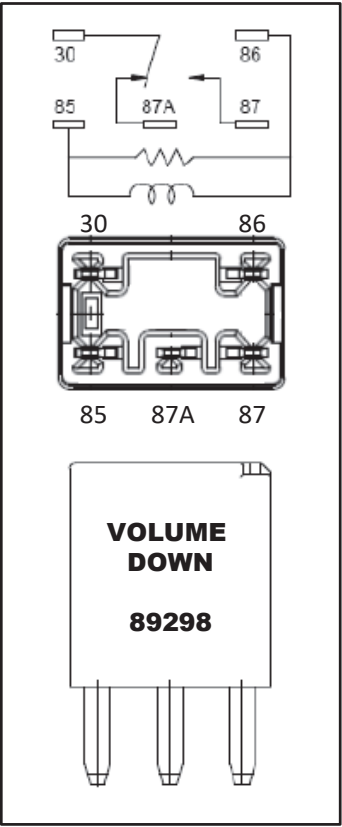


8/26/2020

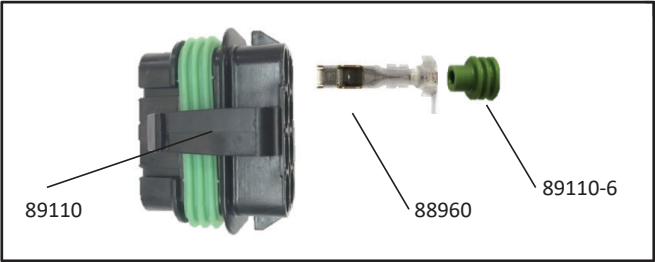
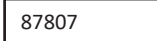
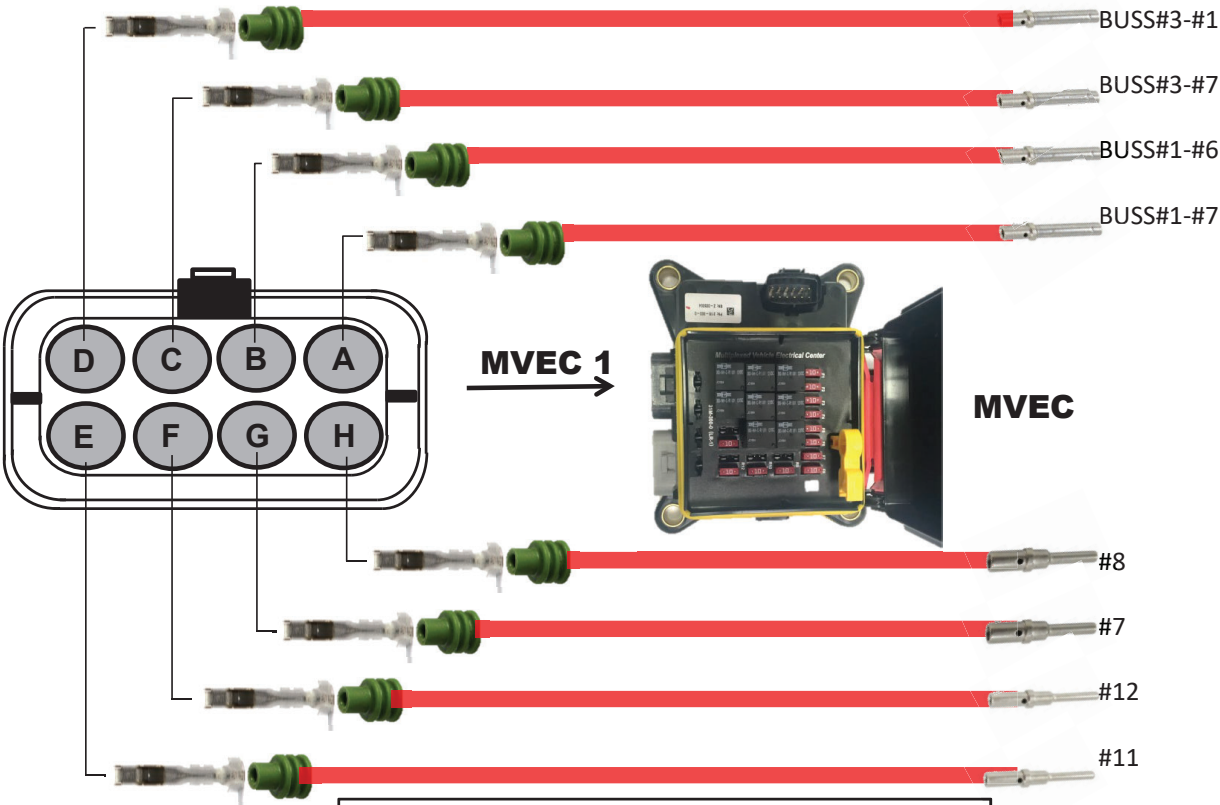
REV-Q

**VOLUME RELAY OPTION
(DOWN) RELAY**

CUT WIRE 1 1/2" LONG

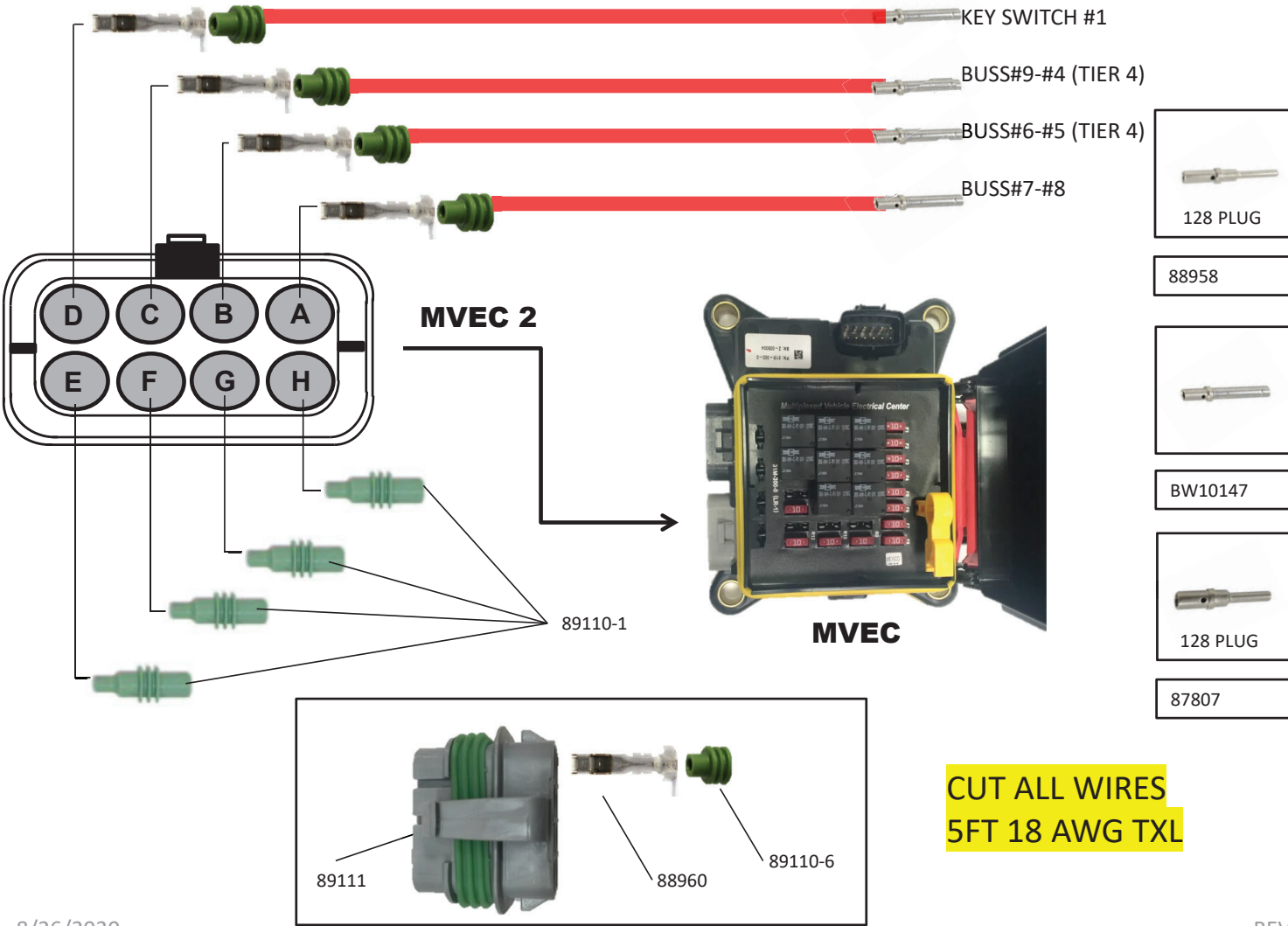


MVEC #1



CUT ALL WIRES
5FT 18 AWG TXL

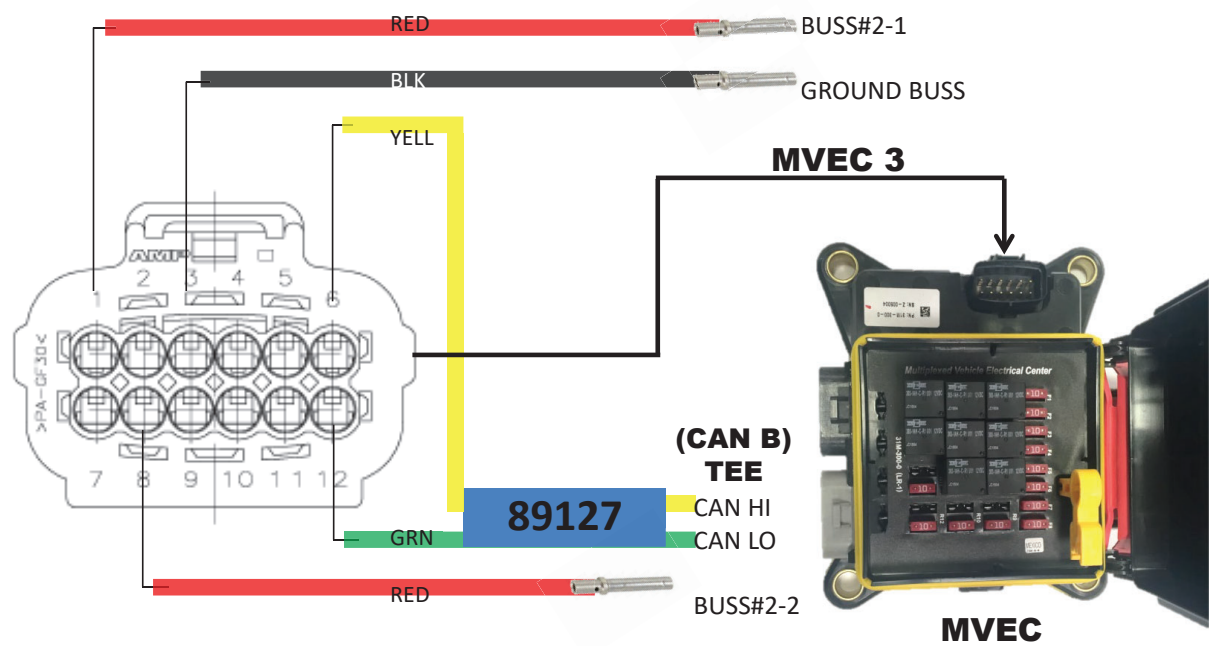
MVEC #2



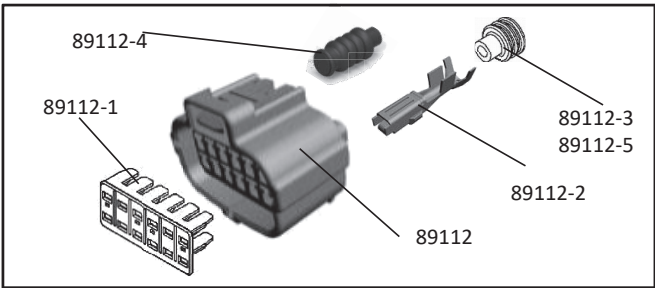
8/26/2020

REV-Q

MVEC #3



BW10147



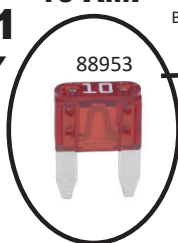
8/26/2020

REV-Q

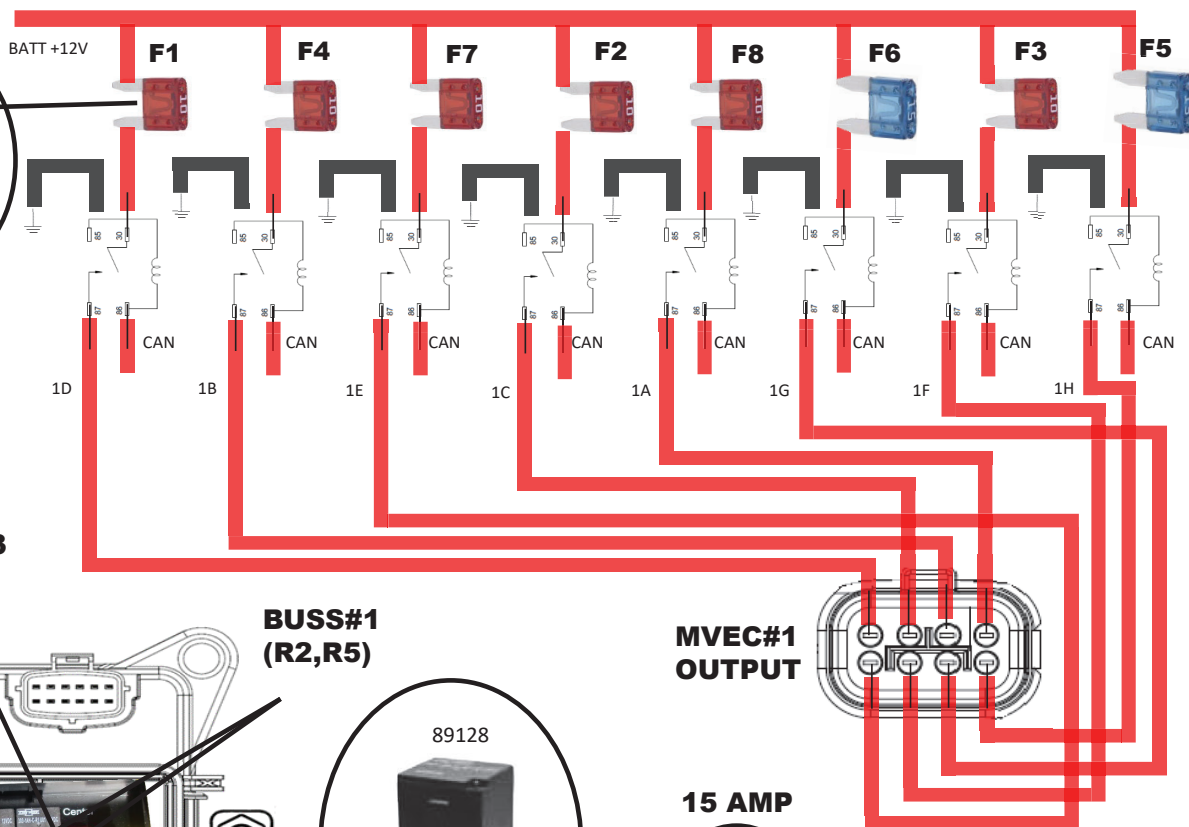
MVEC #1 FUSE/RELAY OUTPUT

- 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

10 AMP



BATT +12V



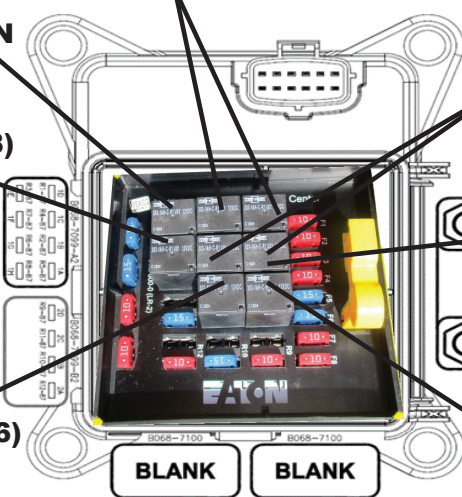
BUSS#3
(R1,R4)

BUSS#1
(R2,R5)

HORN
(R7)

VIB (R8)

VIB (R6)



BLANK

BLANK

HORN(R3)

MVEC#1
OUTPUT

15 AMP



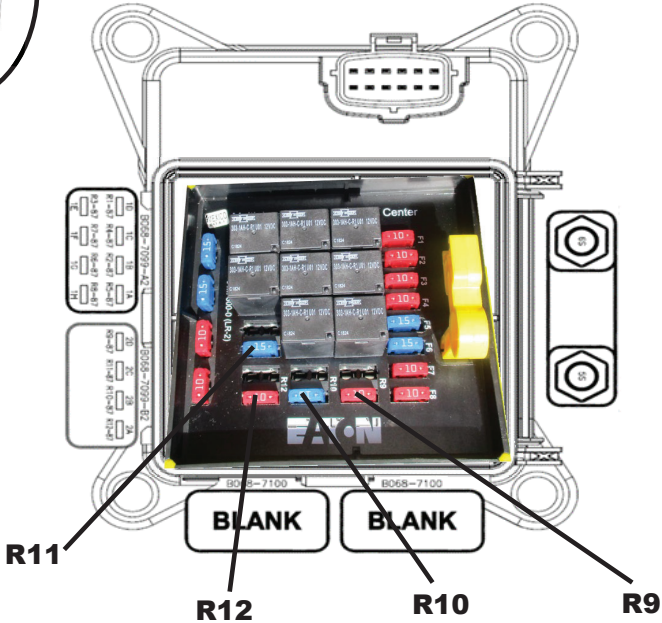
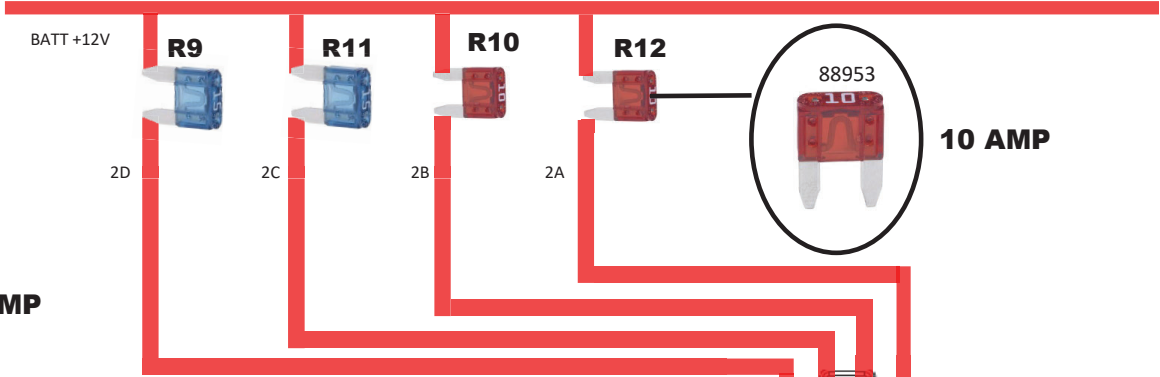
88944

8/26/2020

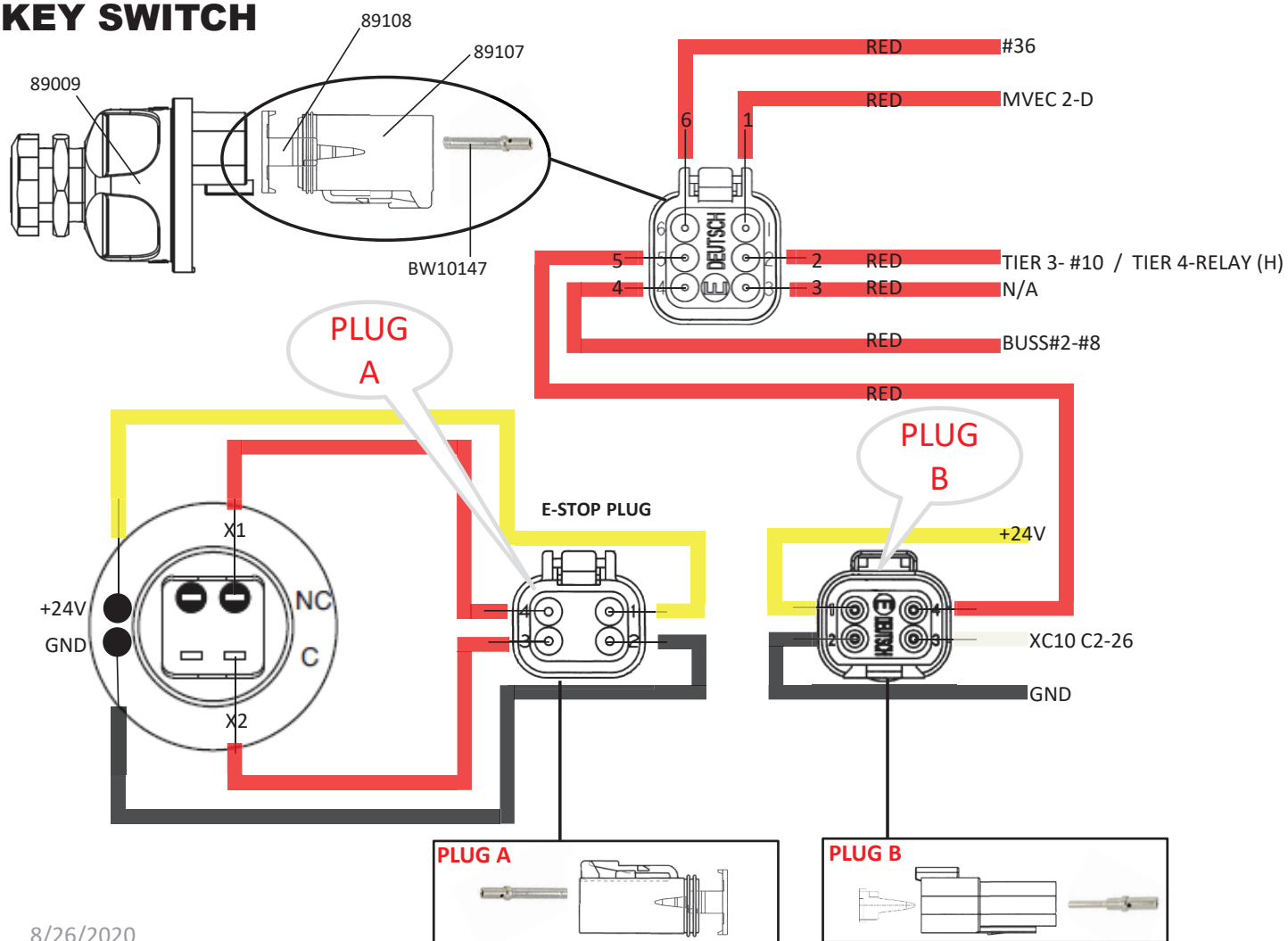
REV-R

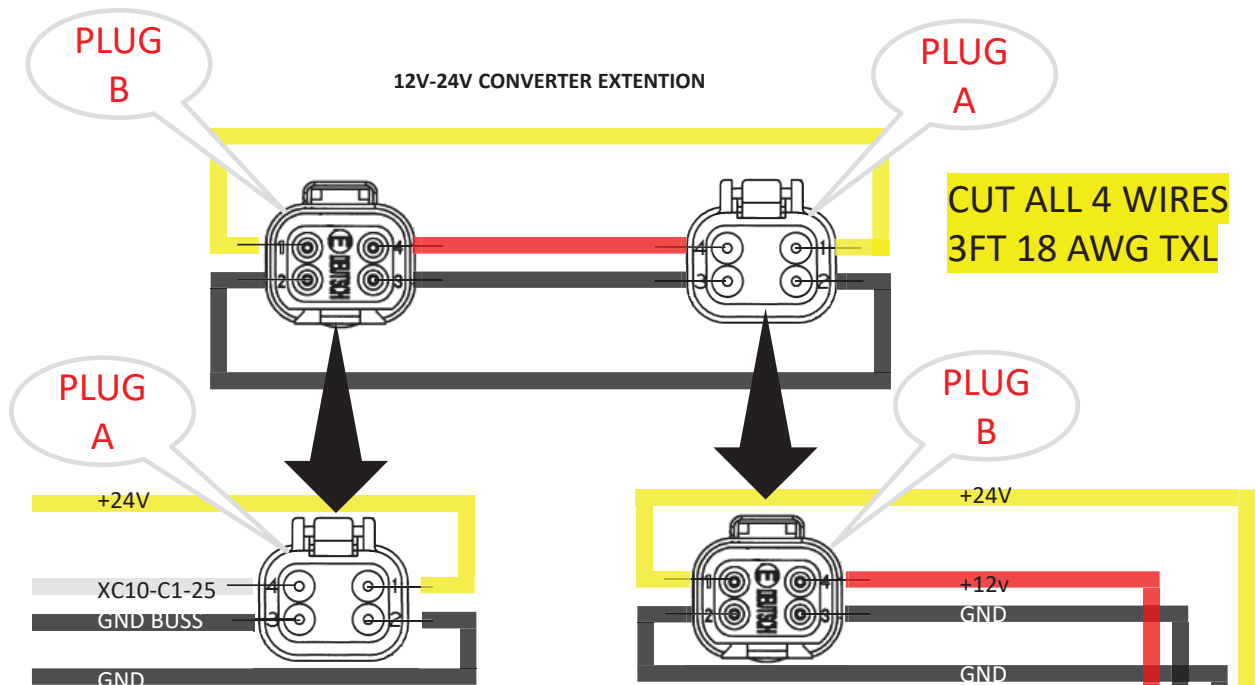
**MVEC #2
FUSE/RELAY
OUTPUT**

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

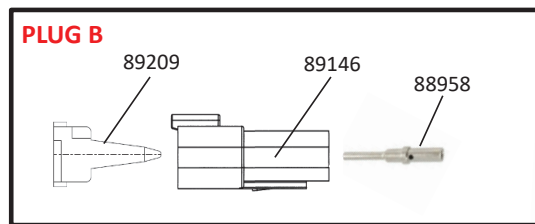
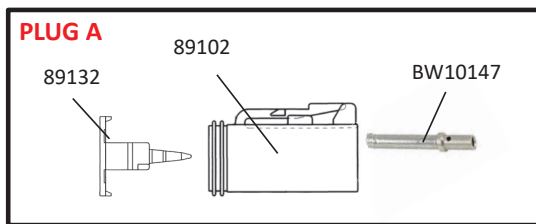


KEY SWITCH

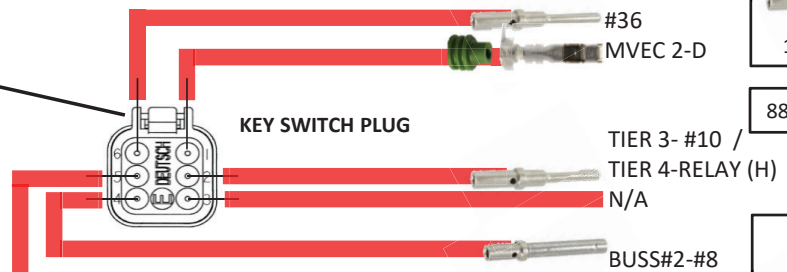
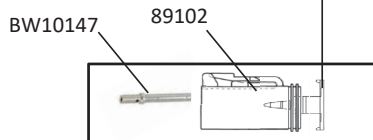
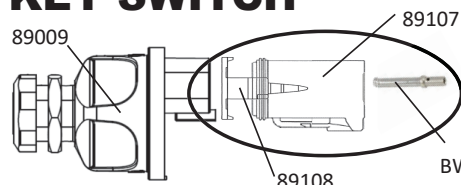




12-24 CONVERTER CONNECTION



KEY SWITCH

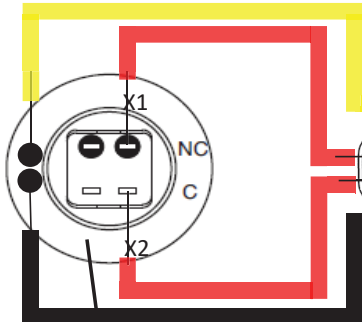


88958



BW10147

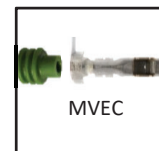
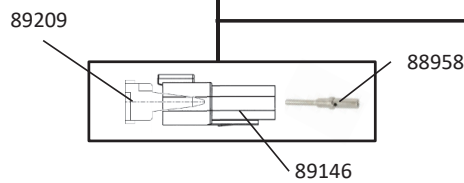
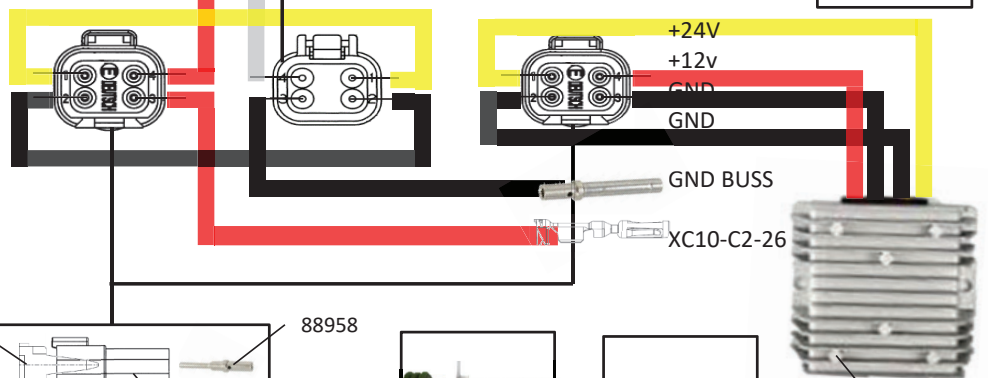
E-STOP SWITCH



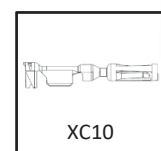
E-STOP/KEY SWITCH CONNECTION



12-24 CONVERTER CONNECTION



88960-1S
89110-6



88945-S

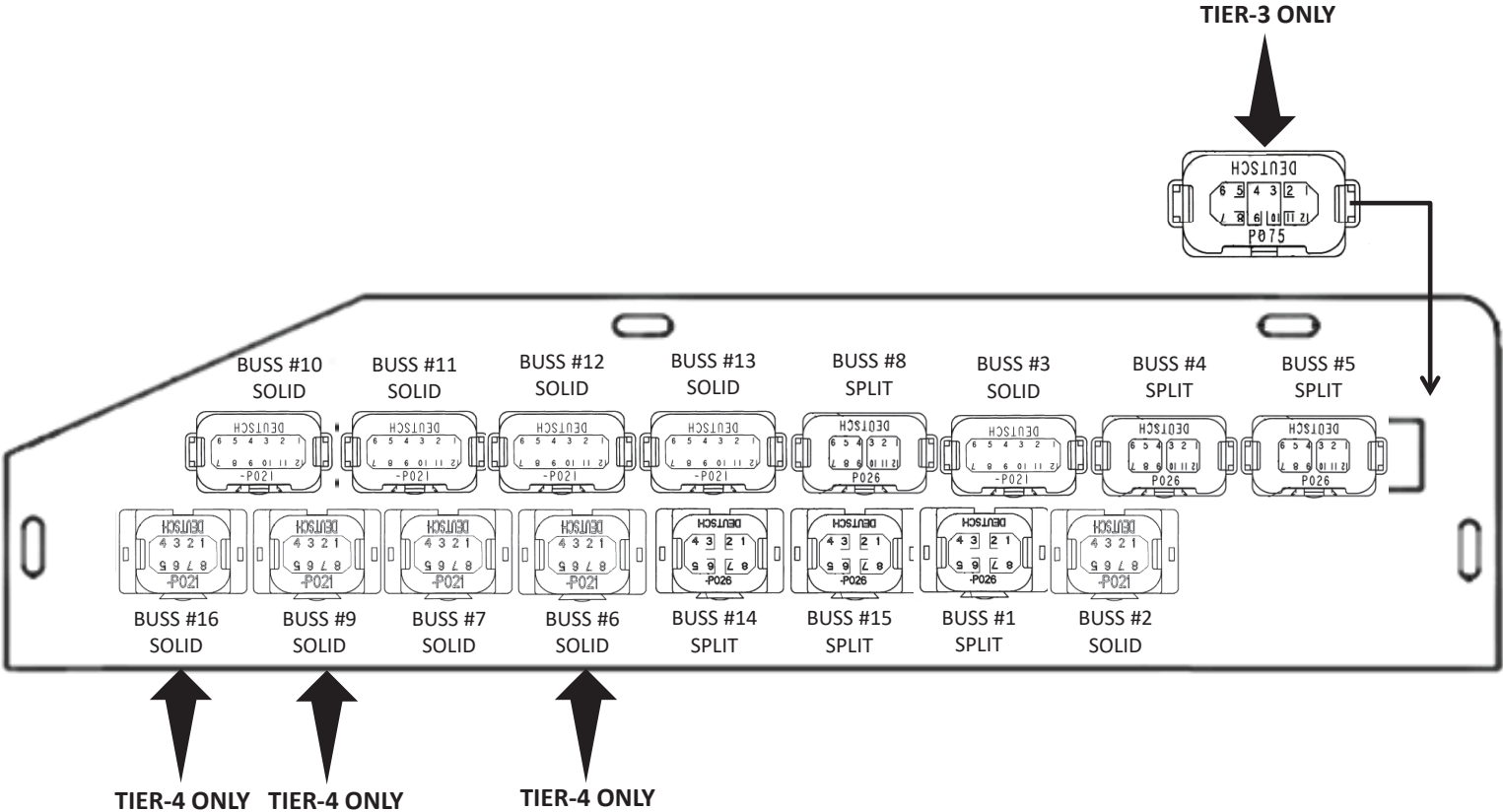


89090-C

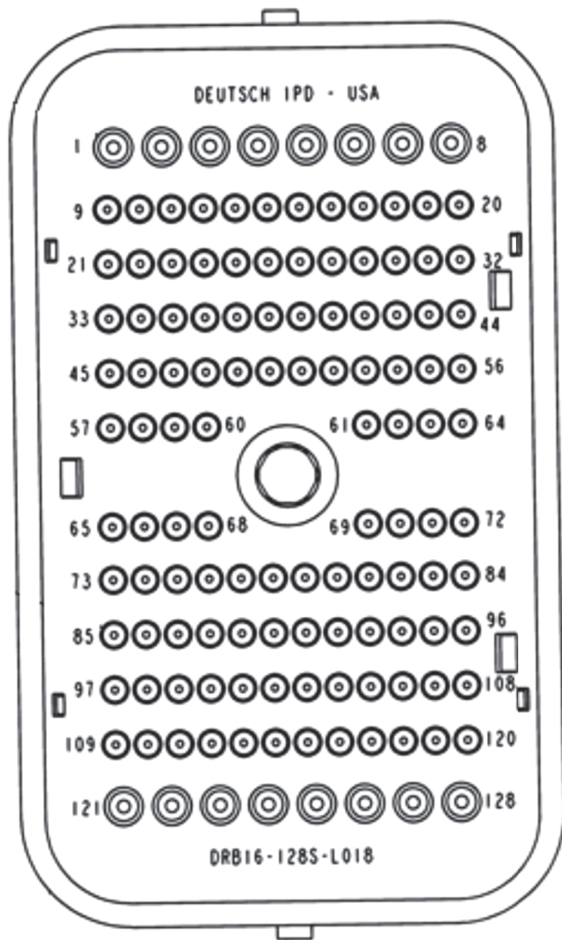
8/26/2020

REV-Q

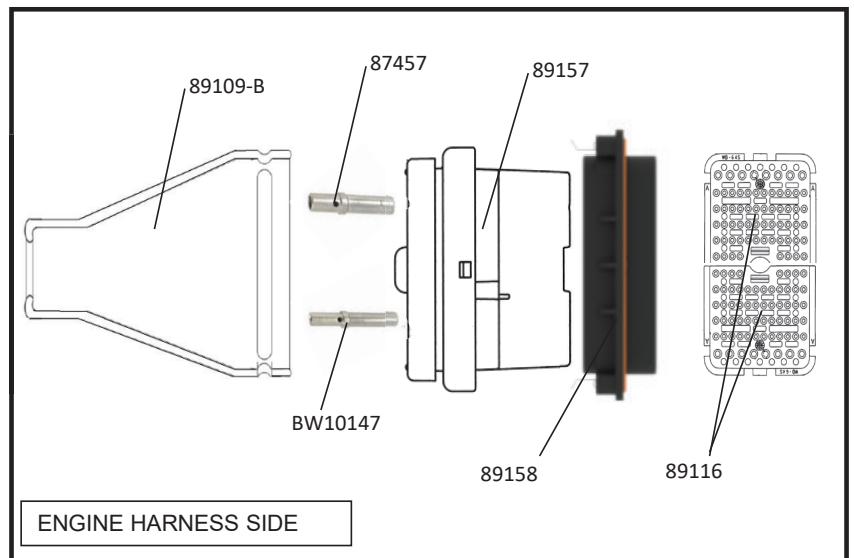
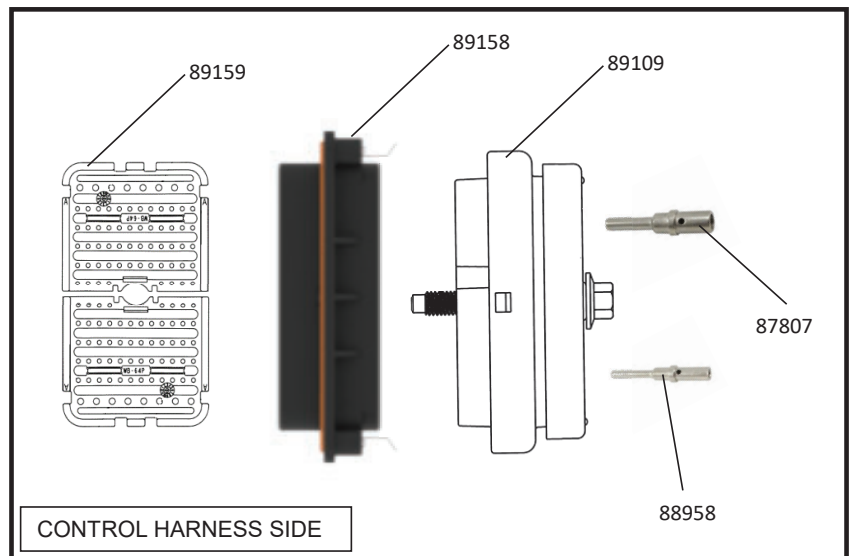
BUSS BAR SET-UP



DEUTSCH 128 PLUG



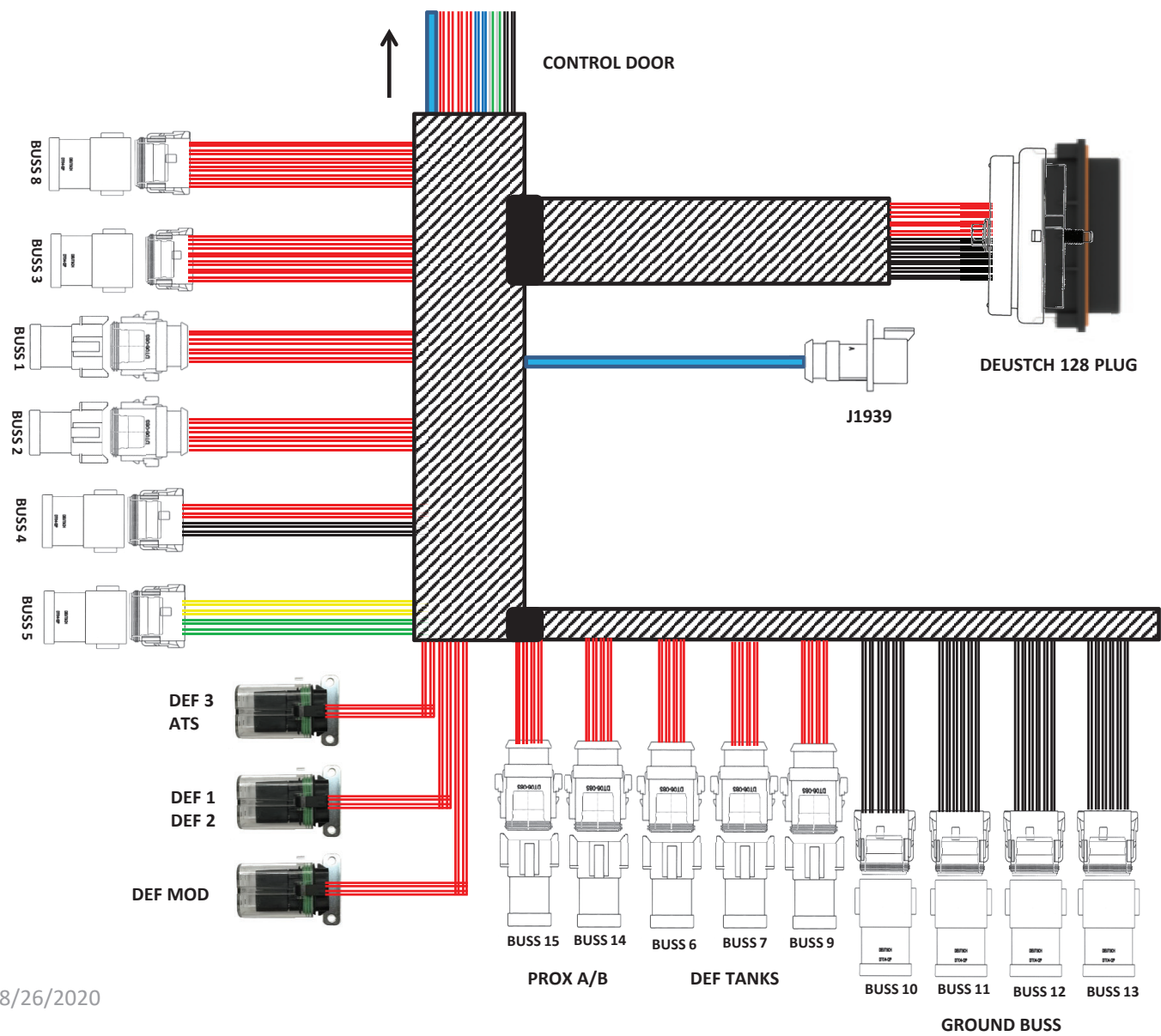
8/26/2020



REV-Q

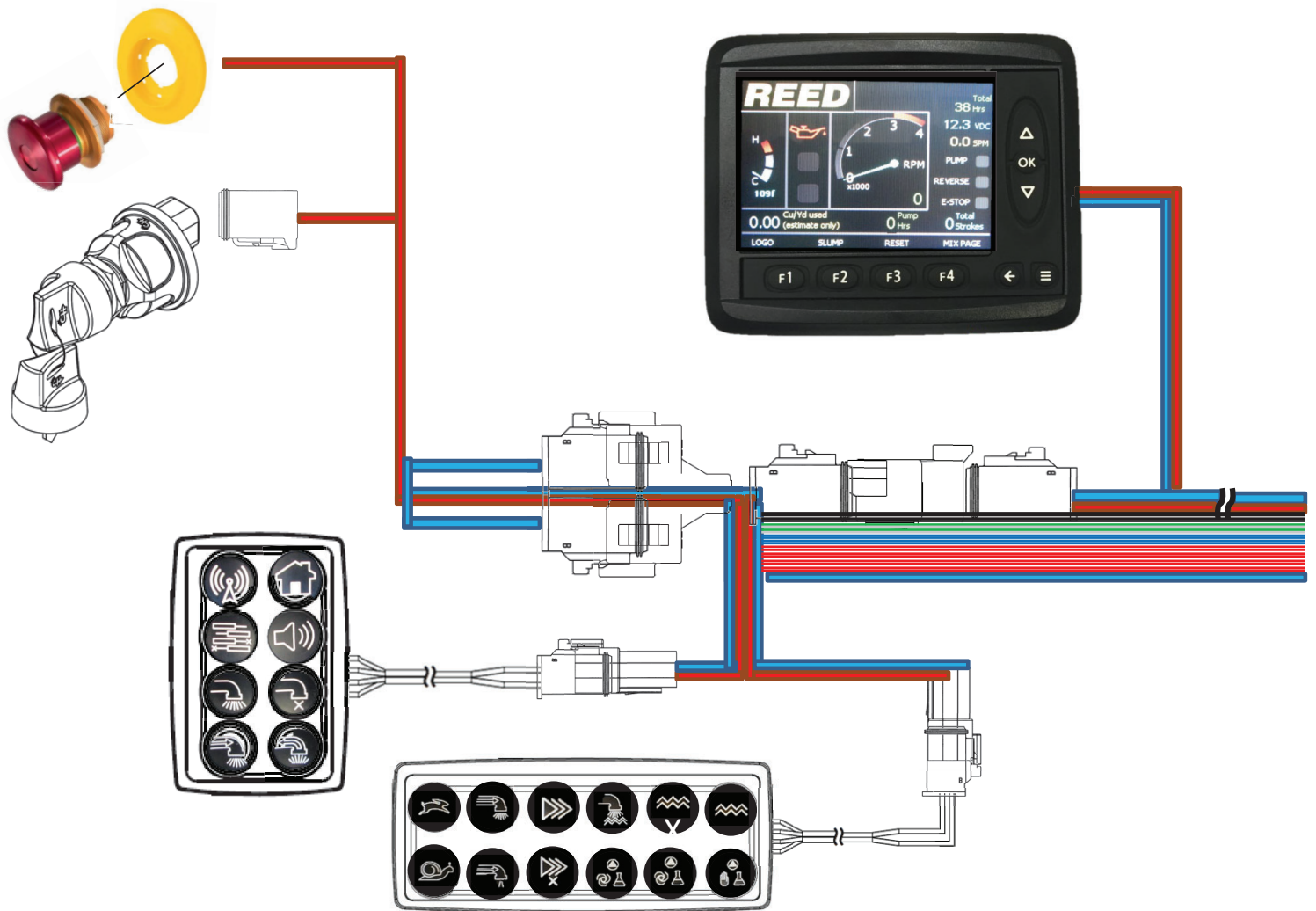
DEUTSCH 128
PLUG
TIER 4 PIN
OUT

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



8/26/2020

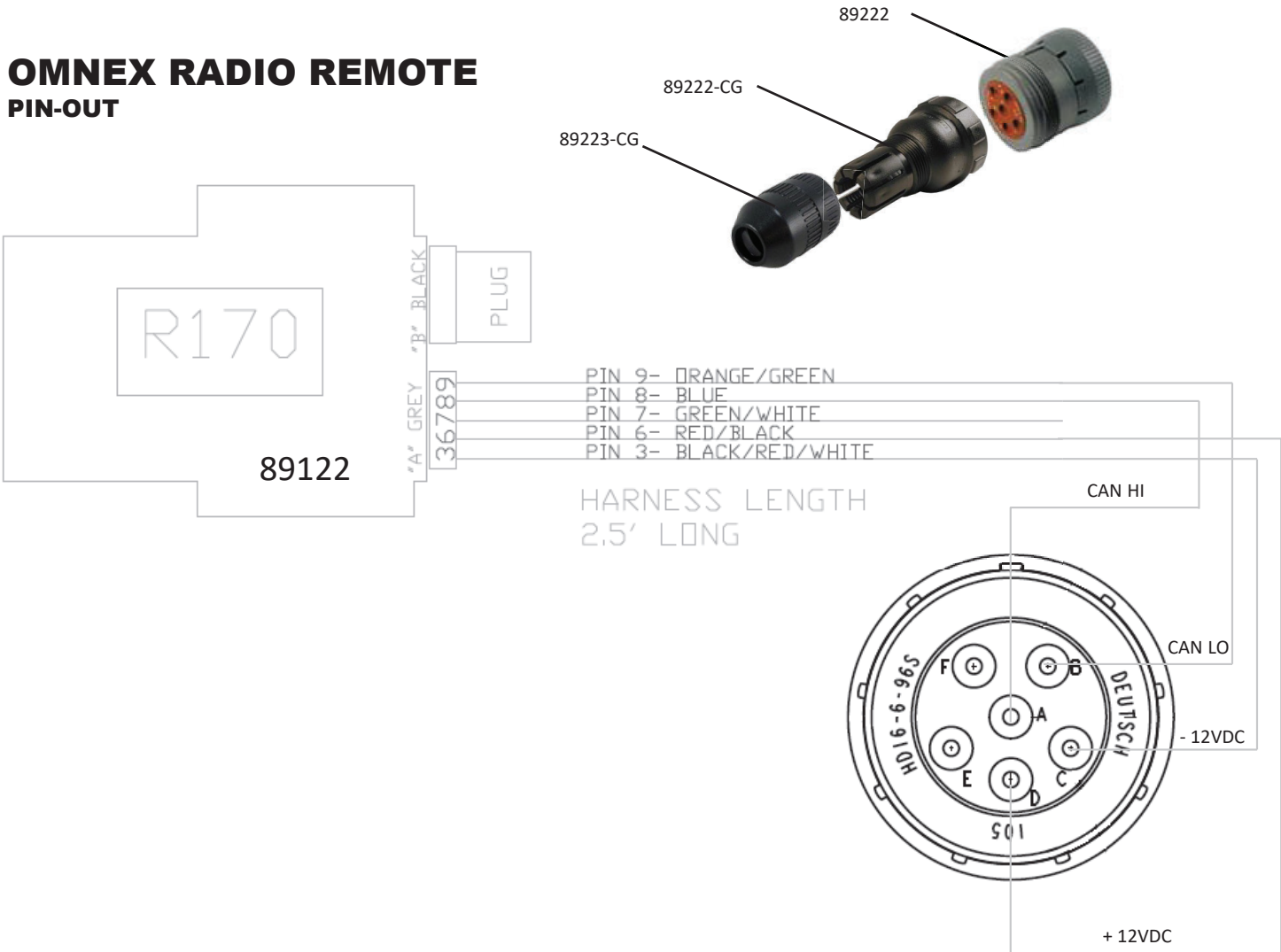
REV-Q



8/26/2020

REV-Q

OMNEX RADIO REMOTE
PIN-OUT



HYDRAULIC / ELECTRICAL SCHEMATICS

B SERIES DRIVE CYLINDER CIRCUIT HYDRAULIC SCHEMATIC					
DATE 12/3/01					
PART NO. REV. 86708 B	CODE		DESCRIPTION	PART NO.	QTY.
	P1	Main Pump			
	CYL1	Hydraulic Drive Cylinder			
	MAN1	Manifold Drive Cylinder Circuit		85248	1
	SV1	Solenoid Valve, Drive Cylinder Circuit		85689	1
	SV1-1	Valve Main		85690	1
		Seal Kit		74994	1
	SV2-2	Solenoid Valve Pilot		85691	1
		Coil For SV2-2		85692	2
		Seal Kit		72313	1
	RV1	Relief Valve Cartridge		85696	1
		Seal Kit		85696-SK	1
	FC1	Flow Control Valve Cartridge		85697	1
		Seal Kit		85697-SK	1
C1	Check Valve		78961	4	
	C2	Check Valve Cartridge		85698	1
		Seal Kit		85698-SK	1
G1	Pressure Gauge 6000 psi		74562	1	
G3	Pressure Gauge Return		85575	1	
OC1	Oil Cooler		85713	1	
RF1	Return Filter		85282	1	
	Return Filter Element		85283	1	
	Seal Kit Return Filter		BW10241	1	
SS1	Magnetic Suction Strainer 3"		800230	1	

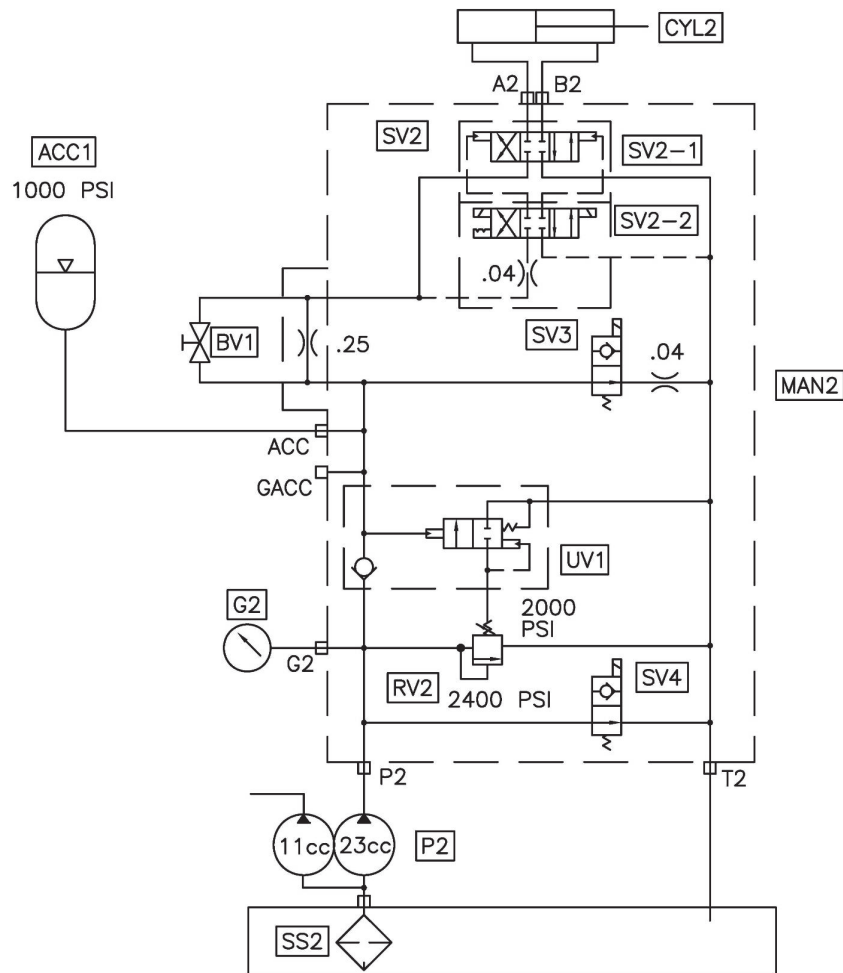
B50/60/70 SERIES SWING TUBE HYDRAULIC
SCHEMATIC, SINGLE SHIFT CYLINDER

DATE
11/7/01

REV.
B

PART NO.
86705

REED



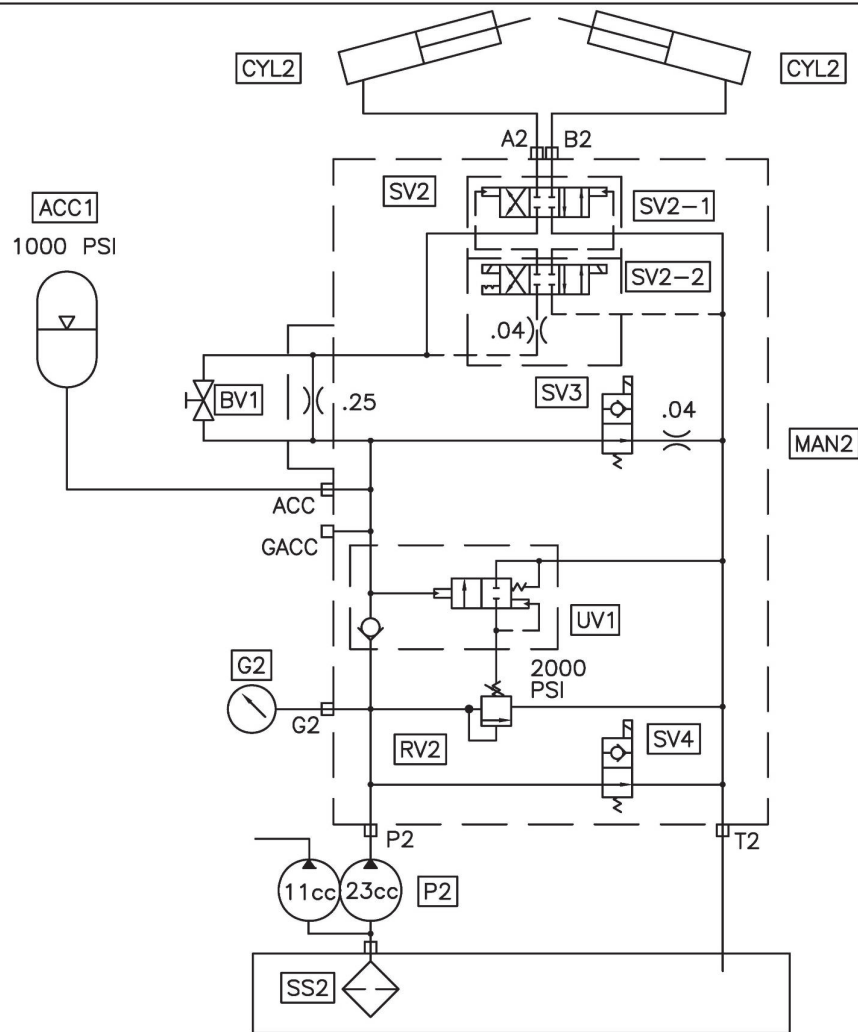
CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump	87571-1	1
CYL2	S Tube Single Shift Cylinder	86221	1
	Seal Kit, GRATE BEND or TEXAS	86221-SK??	1
MAN2	Manifold S Tube Circuit	85249	1
SV2	Solenoid Valve S Tube Circuit	85693	1
SV2-1	Valve Main	85694	1
	Seal Kit	74994	1
SV2-2	Solenoid Valve Pilot	85695	1
	Seal Kit	72313	1
	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 Cartrige	85703	1
	Seal Kit For Relife Valve	85703SK	1
UN1	Unloding Valve Cartrige	85704	1
	Seal Kit For Unloder Valve	85704SK	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

REED

DATE 11/7/01

REV. B

PART NO.
86706



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 Cartrige	85703	1
UN1	Unloding Valve Cartrige	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			

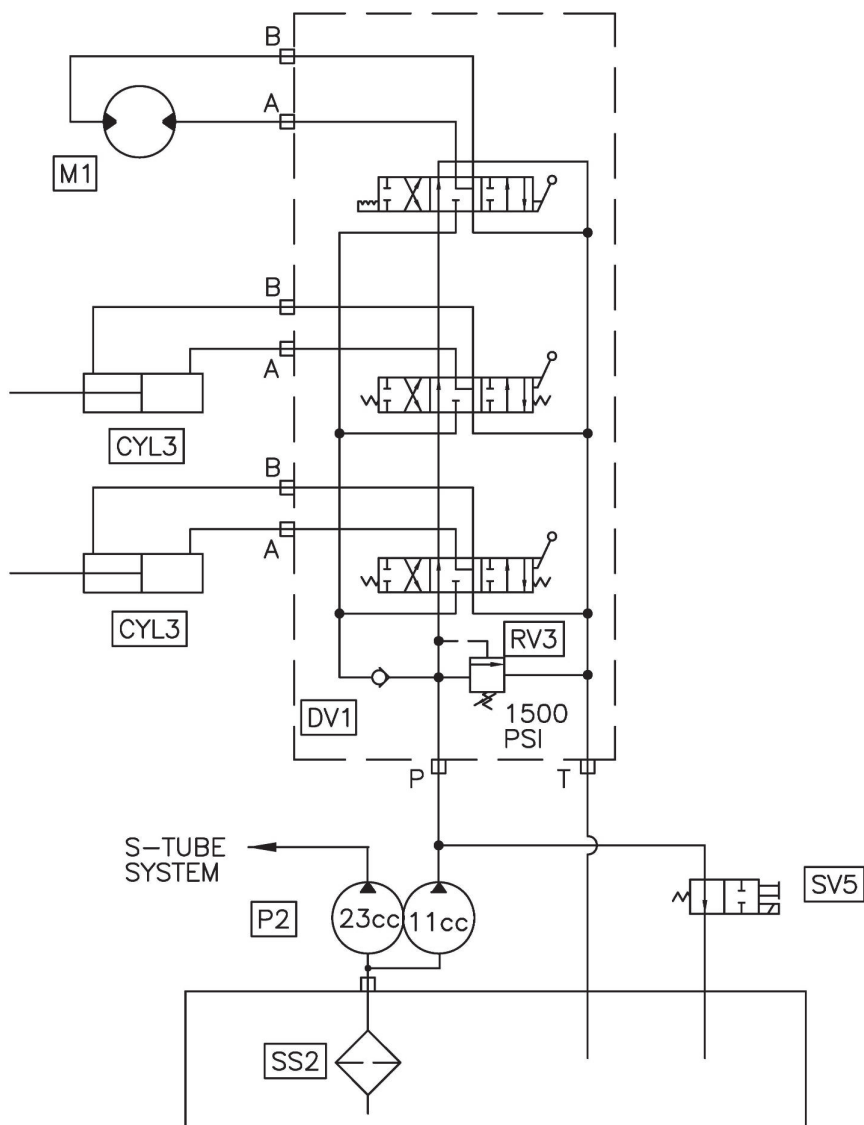
REED

REV.

11/7/01

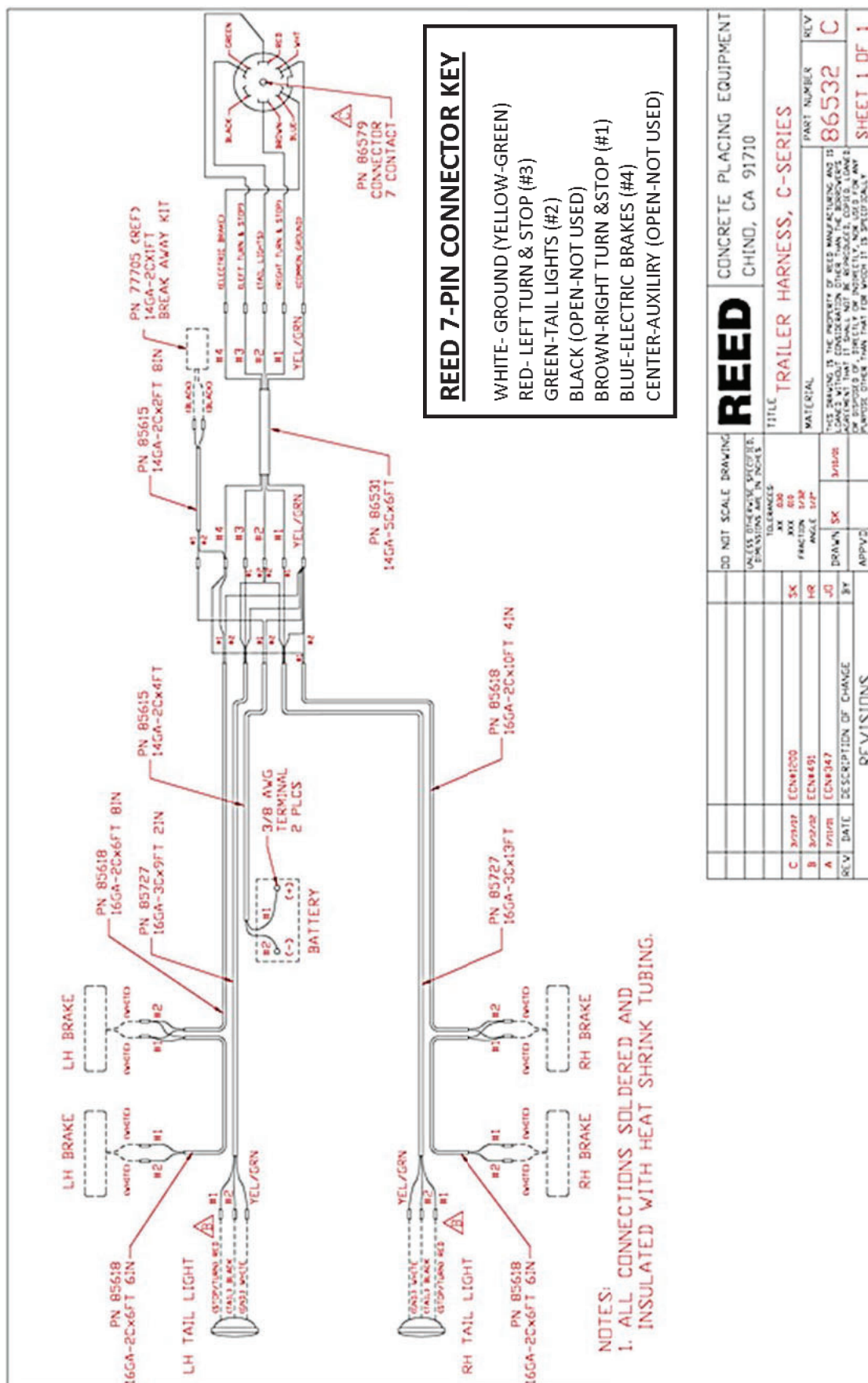
PART NO.

86707



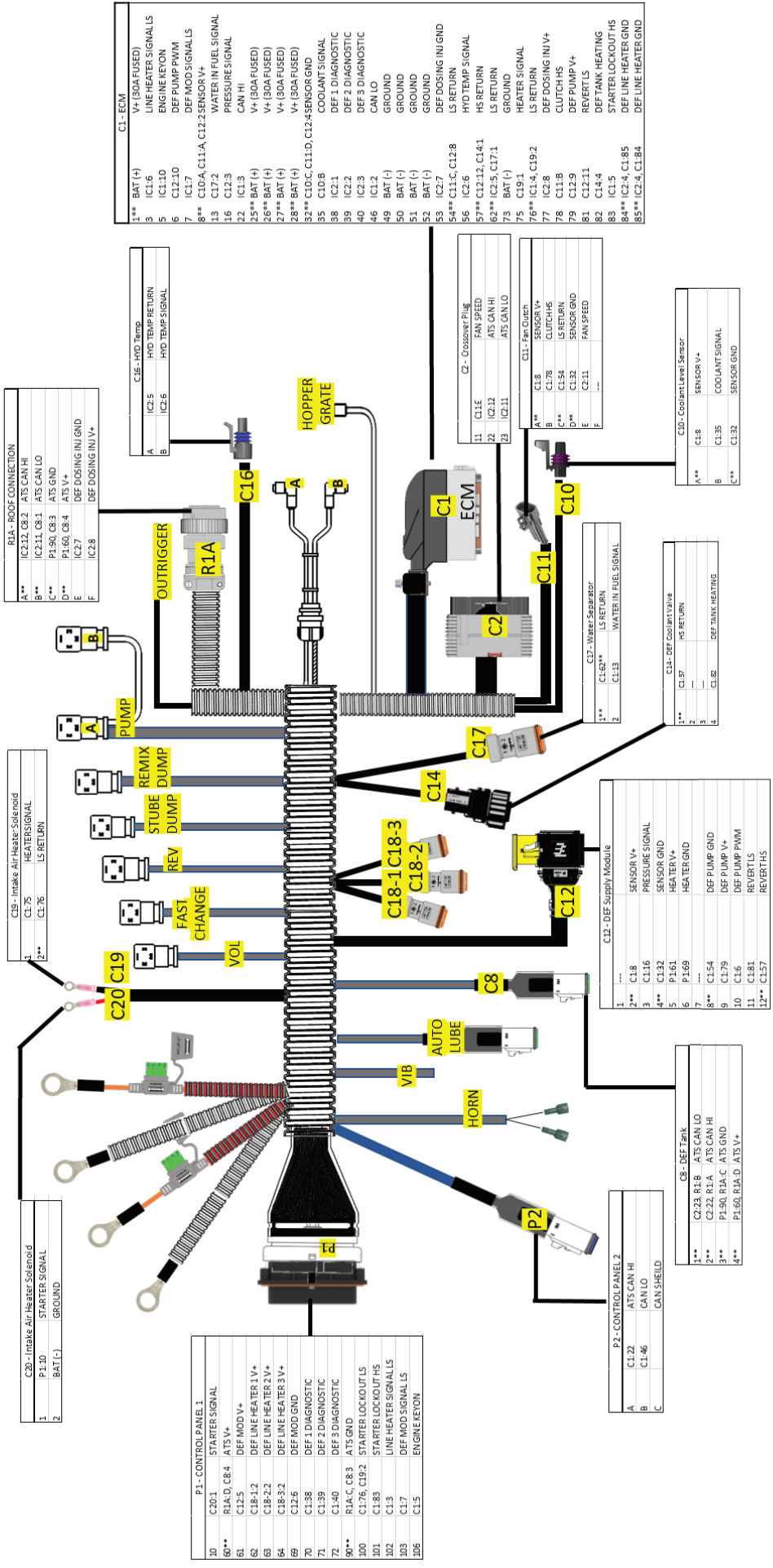
CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump		
CYL3	Hydraulic Outrigger Cylinder	86574	2
DV1	Directional Valve Agitator/Outrigger	74471	1
RV3	Relife Valve Cartrige	85706	1
M1	Agitator Motor	85811	1
	Seal Kit For 85811 Motor	85811SK	1
SV5	Solenoid Valve	87154	1
	Coil For SV5	87155	1
	Cartridge For SV5	87155-C	1
SS2	Magnetic Suction Strainer 1 1/4"	79247	1
	REV B-5/7/2009		

TRAILER HARNESS

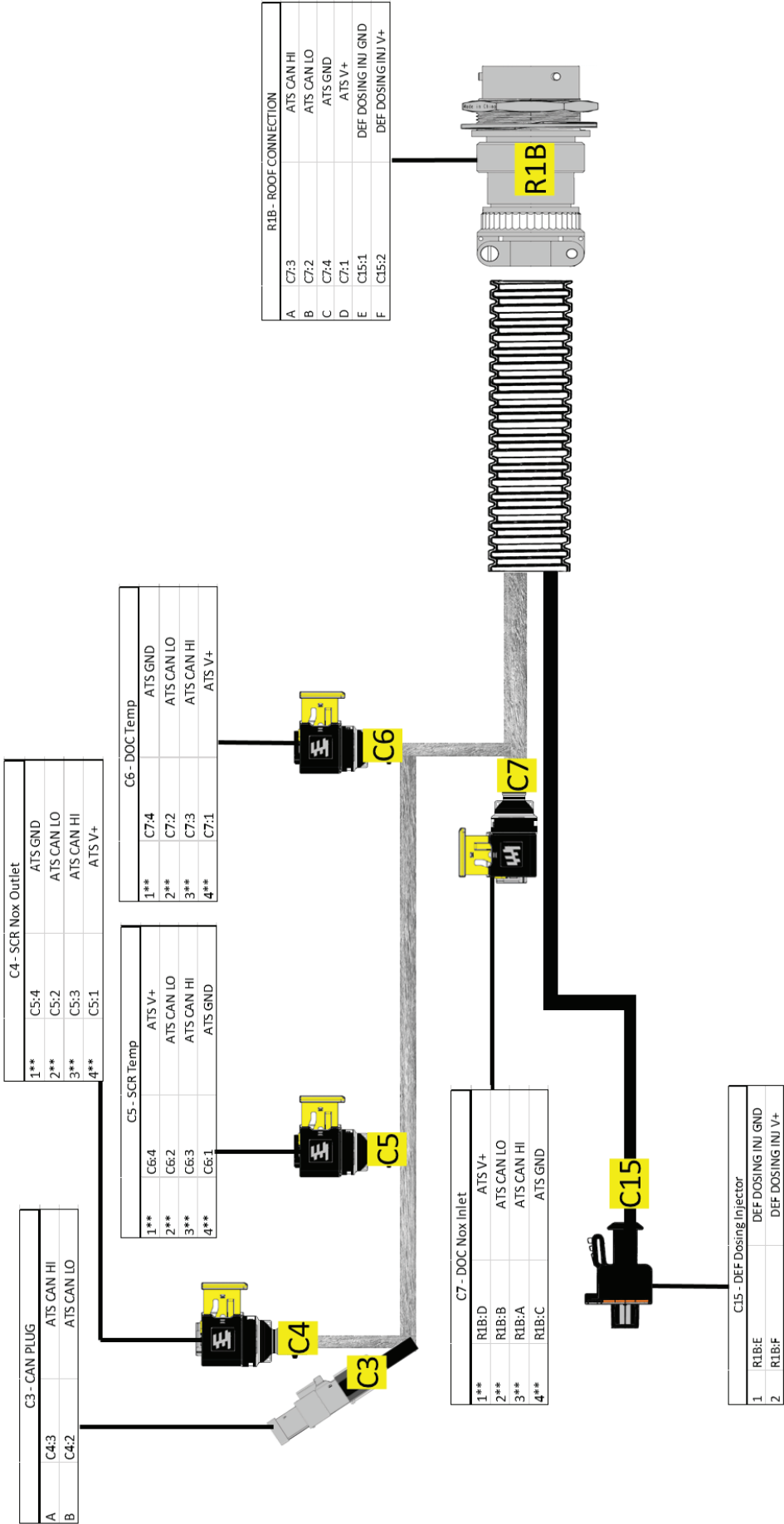


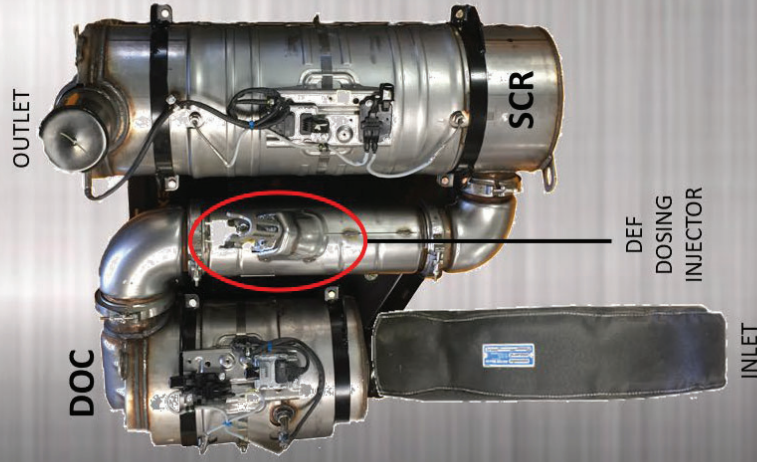
TO	FROM	DESCRIPTION	WIRE SIZE/COLOR		TO	FROM	DESCRIPTION	WIRE SIZE/COLOR
1	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG		65	BUSS#17-3	VOLUME +	B-WHT 18/19 AWG
2	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG		66	BUSS#17-4	VOLUME -	B-WHT 18/19 AWG
3	MVEC MAIN PWR	V+ (BATTERY)	RED 14 AWG		67			
4	MVEC MAIN PWR	V+ (BATTERY)	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-G	VIBRATER V+	RED 16 AWG		71	DEF 2 (H)		
8	MVEC #1-H	VIBRATER 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	TIER 4 REV C	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 (F)	DEF RELAY	RED 18/19 AWG		126	BUSS#11-7	GND (BATTERY)	BLK 18/19 AWG
63	DEF#2 RELAY (H)	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



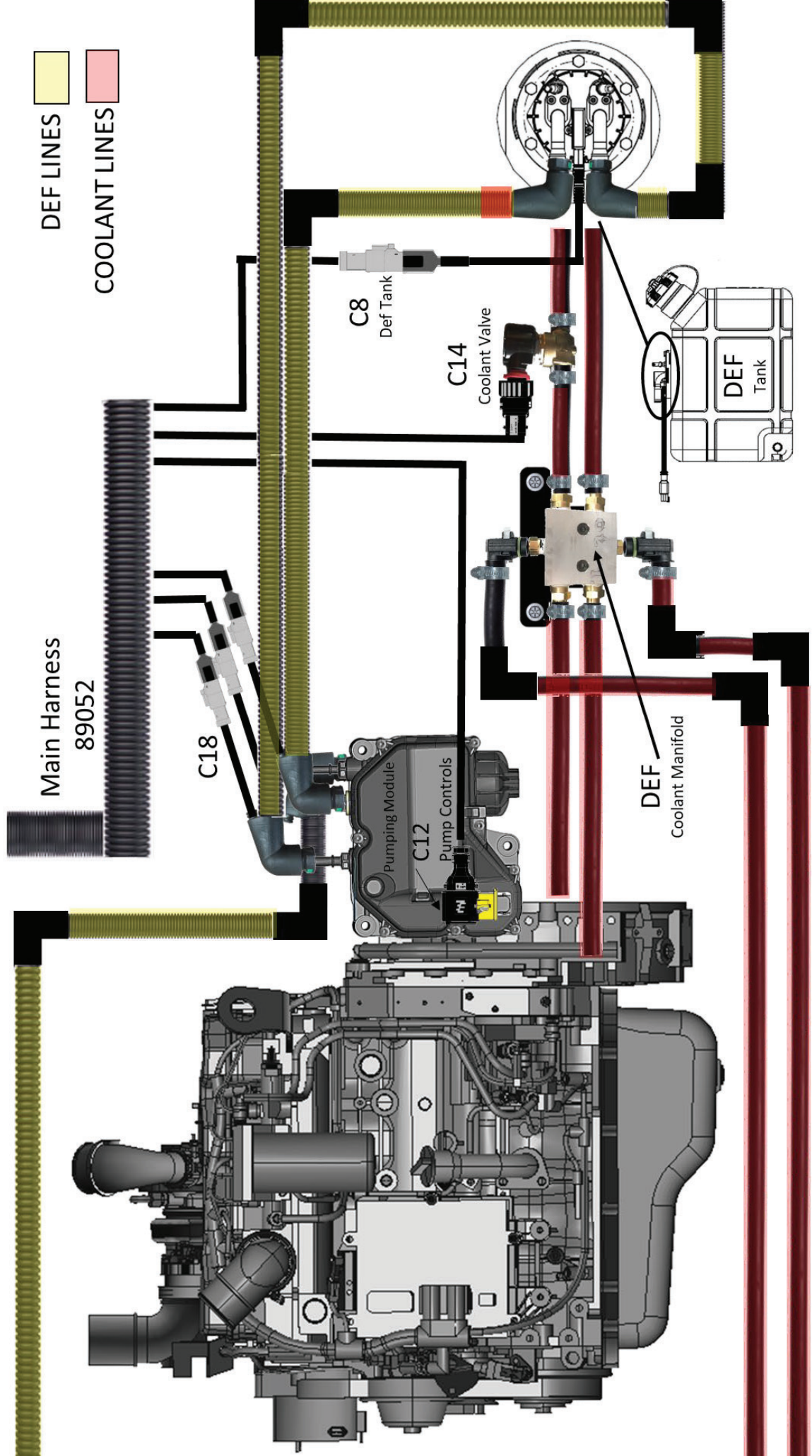
89052-R TIER-4 ROOF HARNESS





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.



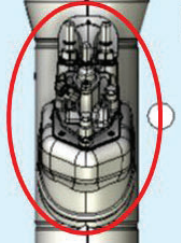
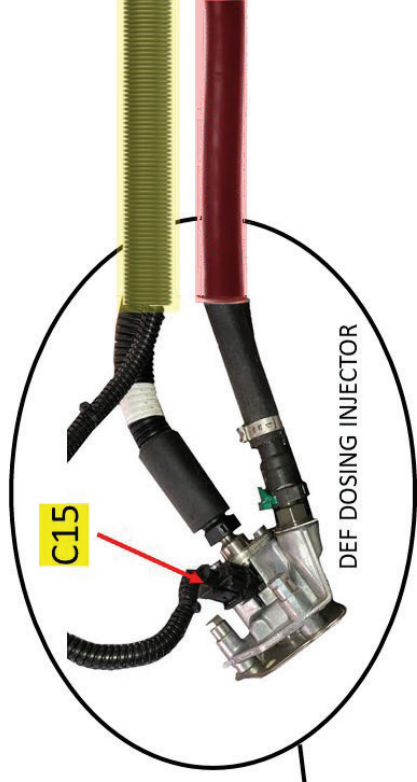
DEF LINES
COOLANT LINES

R1B
Roof Harness 89052-R
ROOF, TOP

DOC NOX INLET
DOC TEMP

C6
C7

AFTER TREATMENT INLET



CAN PLUG
TERM RESISTOR
C3

EXHAUST OUTLET

C5 SCR TEMP
C4 SCR NOX OUTLET



TRAILER PLUG PINOUT

