

- Power Cable**
- Cut 3-conductor power cable 0615.0022 Alpha 1898C to 12 ft ±2 inches length
 - Strip jacket back 1.25" at first end
 - Strip jacket back 10" at second end
 - Cut RED wire at second end to be 1.5" long from jacket
 - Cut BLACK wire at second end to be 5" long from jacket
 - Bare and tin 0.25" of each wire (total of 6 places)

Put wires into pluggable terminal block 6200.0008 as illustrated and tighten firmly with a small flat screwdriver.



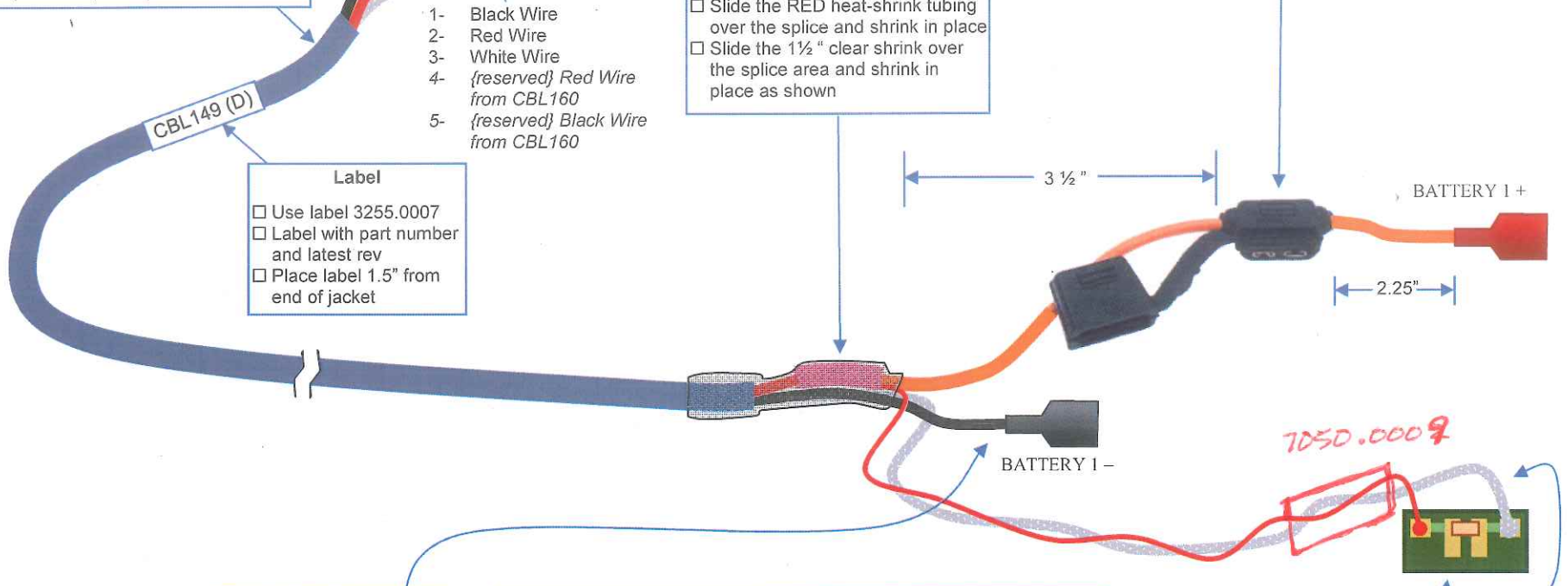
- 1- Black Wire
- 2- Red Wire
- 3- White Wire
- 4- {reserved} Red Wire from CBL160
- 5- {reserved} Black Wire from CBL160

Label

- Use label 3255.0007
- Label with part number and latest rev
- Place label 1.5" from end of jacket

- Positive Wire Splice**
- Slide 1" of RED heat-shrink tubing (7050.0030) onto the fuse and temperature sensor wires
 - Slide 1½" clear shrink (7050.0006) onto power cable
 - Splice the fuse wire, temperature sensor wire and the RED wire of each power cable using a tight mechanical connection that is then soldered
 - Slide the RED heat-shrink tubing over the splice and shrink in place
 - Slide the 1½" clear shrink over the splice area and shrink in place as shown

- Positive Battery Wire**
- Cut Fuse Holder 2435.0016 wire to be ≈4" long on one end and 2.5" on the other end
 - Bare 0.25" of wire at each end of Fuse Holder
 - Install 4A Fuse 2415.0050 and close cover
 - Crimp and solder terminal 6130.0026 to short end and cover with RED heat-shrink tubing (7050.0025), ensure that tubing covers terminal so that it cannot short out to metal enclosures



- Negative Wire Terminal**
- Crimp and solder terminal 6130.0021 to BLACK wire of the power cable and cover with BLACK heat-shrink tubing (7050.0004)

- Temperature Sensor**
- Solder Thermistor 6235.0005 onto circuit board P770.0101
 - Solder and dress wires to circuit board:
 - o Bare and tin wires 1/8" from circuit board end
 - o Red Wire 9", 22AWG, Stranded 7251.2202
 - o White Wire of cable, about 10" long
 - o Twist wires from circuit board to within 2" of end
 - o Bare and tin wires 1/4" from end
 - Apply double sided adhesive foam tape 6070.0019 to back side and trim, leave protective paper on back for field installation
 - Encapsulate top side with hot-melt adhesive or DOW 734 encapsulant
 - Put 1/2" length of 1/8" diameter heat-shrink tubing 1" from open end

Black 7050.0009
** 3M 4952 or similar, thickness 2 1/8"*

Redline added 12/16/19 @ A. Rasmussen

Dimensional Tolerance: ±0.25"

Parts List

P/N	Qty	Desc.
P770.0101	1 ea.	LxT POWER PCB
0615.0022	12 ft.	3 COND 18 AWG CABLE ALPHA 1898C
2415.0050	1 ea.	FUSE 4.0A ATO BLADE 32V FAST ACTING
2435.0016	1 ea.	FUSE HOLDER ATO IN-LINE SEALED 12AWG
6130.0021	1 ea.	PUSH ON 18GA WITH NO INSULATION
6130.0026	1 ea.	PUSH ON 14GA WITH NO INSULATION
6200.0008	1 ea.	TERMINAL BLOCK PLUG 5-POS 3.81MM
6235.0005	1 ea.	THERMISTOR NTC 100K 5% MELF SMD

Floor Stock Items:

P/N	Qty	Desc.
7251.2202	0.75ft	22 AWG STRANDED RED WIRE
6070.0019	0.5 inch	TAPE FOAM DBL VHB 1"W .032"T
7050.0006		HEAT SHRINK TUBING 3/8" CLEAR
7050.0025		HEAT SHRINK TUBING 3/8" RED
7050.0004		HEAT SHRINK TUBING 3/8" BLACK
7050.0030		HEAT SHRINK TUBING 1/4" RED
3255.0007		LASER PRINT. SELF LAMIN. LABEL

Revision Record

Date	Rev.	ECO	Desc.
07Sep2007	A	-	Drawing created
24Sep2007	A	-	Corrected length of 7251.2202
13May2008	B	3654	Waterproof fuse holder
20Sep2016	C	4491	Fuse holder wire length 3.5" (was 6")
17July2019	D	4871	Replaced one 6130.0021 with 6130.0026, gave heat shrinks part numbers

LARSON DAVIS, INC.

CABLE 831-INT TO BATTERY 12 FOOT

A	Created	Part Number	Rev.
	07Sep2007	CBL149	D
Revised	Sign Off		Sheet
17July2019	<i>Alan Rasmussen</i>		2/2