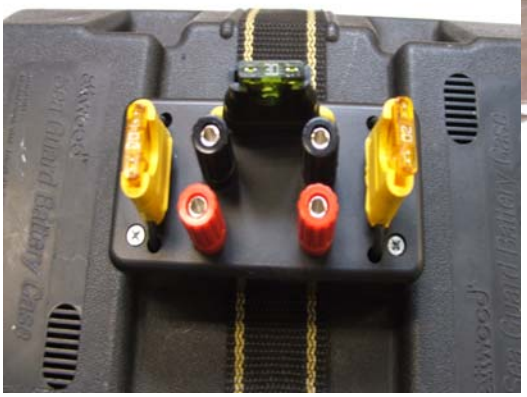
How to create a Battery Connector for multiple plug-ins

Note: This document only provides one possible method for building a multiple plug-in for a battery. Feel free to use this method or another one as you see fit. **Before you begin to build, please remember working with electricity can be very dangerous.** Please make sure to follow all of the instructions exactly and use the proper safety gear. If you are unsure of your skills with using electricity, please ask an expert for their assistance. MATE Center is not responsible for any harm that may come to you through improperly building this connector; you are building at your own risk.

Step 1: Buy all of the necessary parts. See below for a parts list.
Step 2: Drill the necessary holes in the protective battery case
Step 3: Assemble the circuit according to the schematics using the parts listed in the parts list. See below for circuit schematics.

This is what your final product should look like:



This is the battery you should use:

Inside of the box should look like:

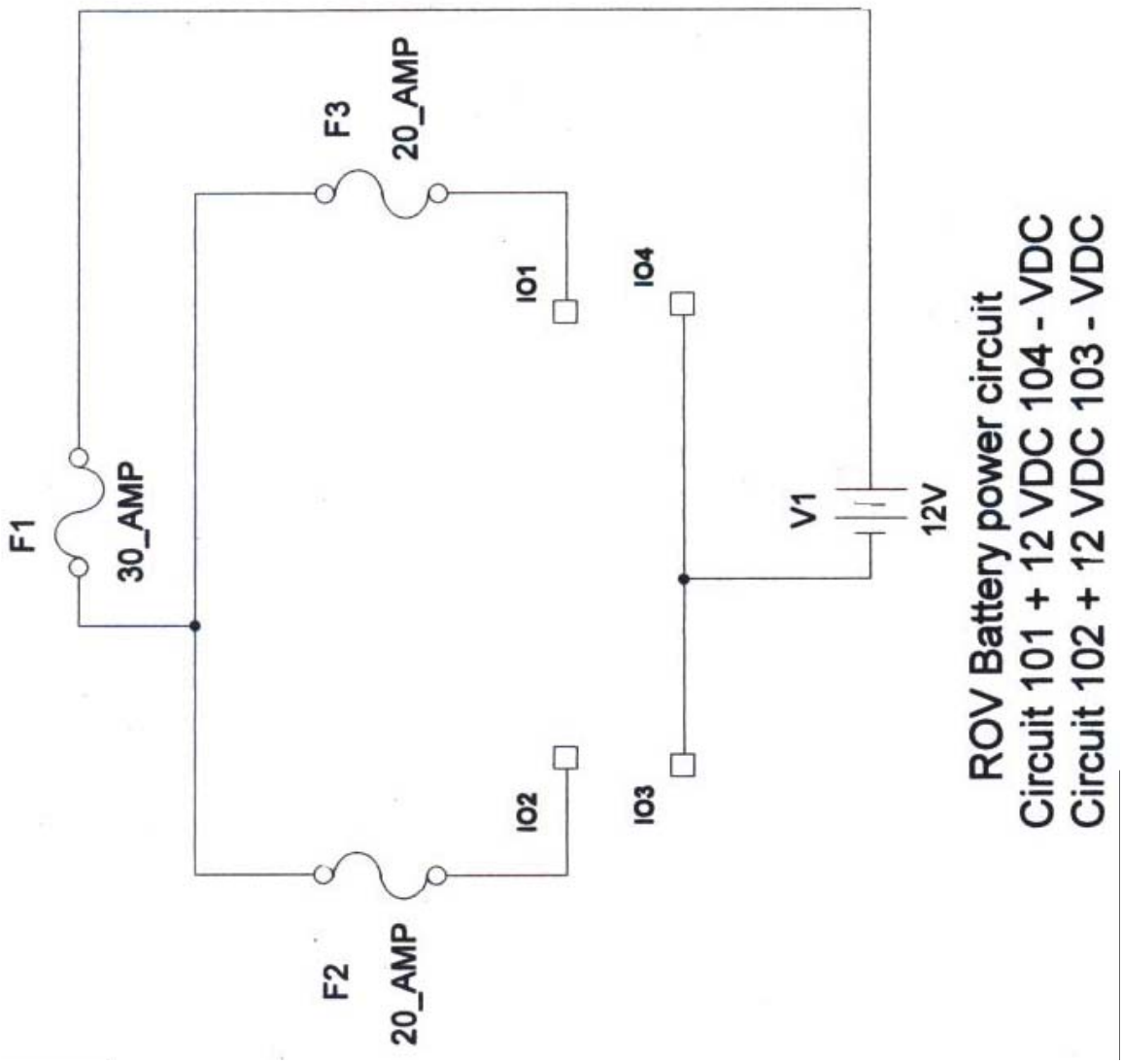
Close up of the connection between the circuit and the battery

MATE ROV Battery Circuit Parts List: Tools & material required

1. 1- Soldering iron 60 watt Radio Shack
2. 1- Solder 60/40 rosin flux core .050 dia.
3. 1- Needle nose pliers
4. 1- Wire Stripper with wire cutter
5. 1- Wire 15 foot 12 gage AWG
6. 1- Wire 15 foot 14 gage AWG
7. 2- Inline splicer for 12-10 wire
8. 4- Inline splicer for 16-14 wire
9. 4- # 6 stud for 16-14 wire

10. 1- 30 amp automotive type fuse holder & fuse *(shown as F1 on schematic)*
11. 1- 20 amp automotive type fuse holder & fuses *(shown as F2 on schematic)*
12. 1- Banana Jack Binding Post Radio Shack 274-662 *(shown as 101-104 on schematic)*
13. 1- Plastic Box 2in X 4in Radio Shack #370-1802ROV Battery power circuit drawing
14. 1- ROV Temp Plate for drilling 2in X 4in Box
15. 1- Automotive Battery Interstate SRM 24
16. 1- NAPA Battery Box # 730-4011 Fits size 24

Circuit Schematics

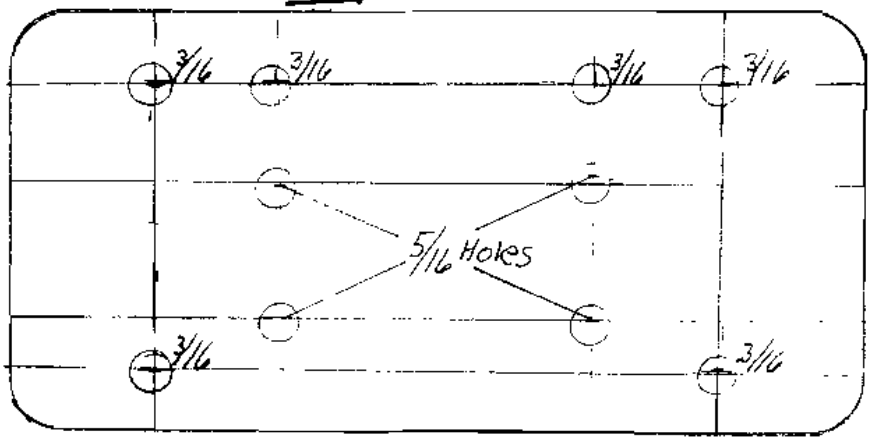


MPC ROV - Fuse Box

Radio Shack Model 270-1802

Temp - Plate

TOP



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