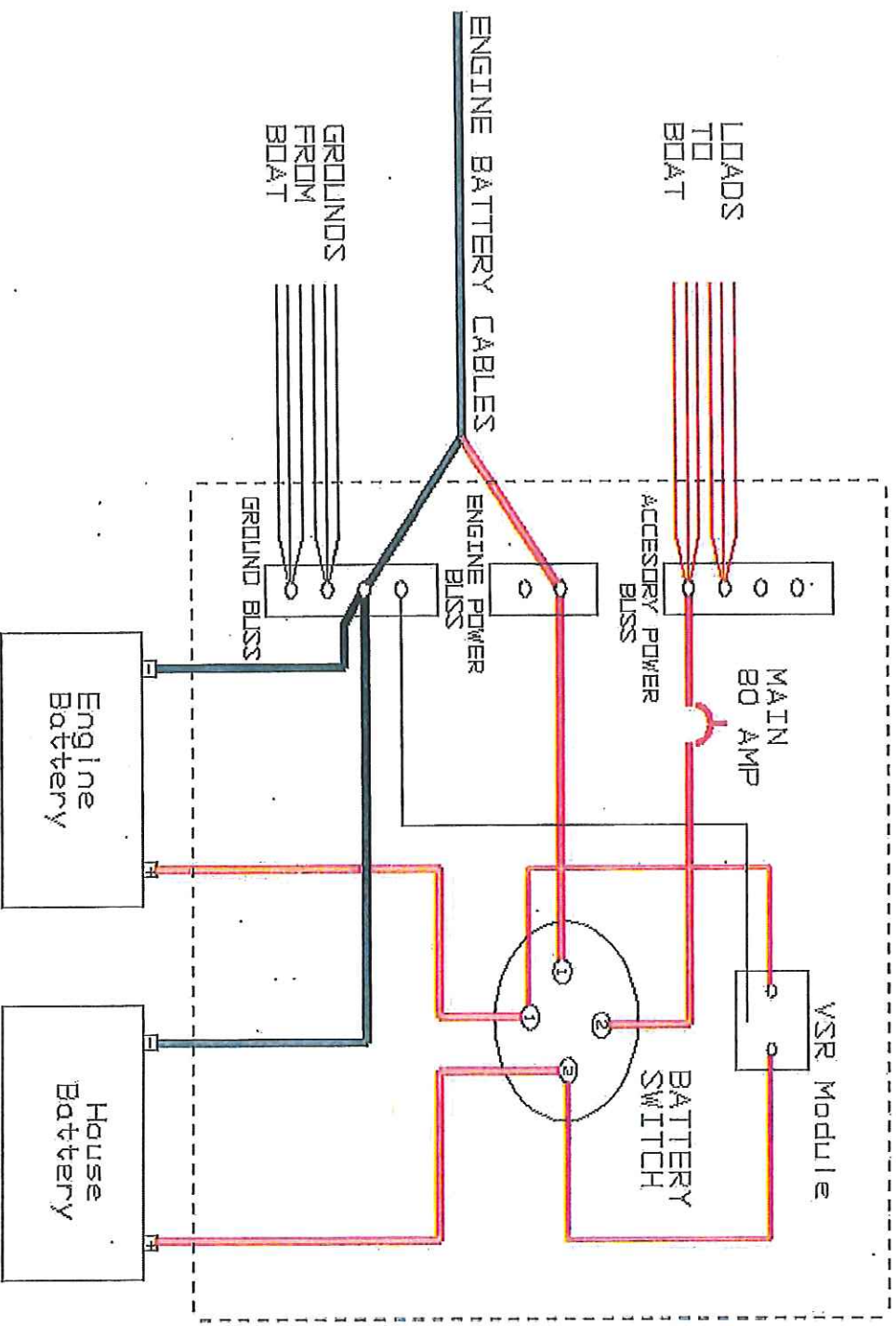


Dual Battery – Smart Charge System



Avalon Battery Switch System

Enjoy the luxury of big boat battery management on your Avalon pontoon boat. This complete battery management system lets you use your DC components on your boat without the concern of being stranded with a dead engine battery. Your friends and family will be able to use the stereo, lighting, air compressors or whatever else you need to make boating more fun.

The Battery Switch System is contained in one box. It provides a location to connect your factory, dealer, and consumer installed electrical devices.

Operation

Operation is simple. While using the boat, put the battery switch in the ON position and put the battery switch in the OFF position while away. In the event of a dead starting battery, put the battery switch in the COMBINE BATTERIES position to start your engine. Once running, return the switch to the ON position. Avoid leaving the switch in the COMBINE BATTERIES position for extended periods. This directly connects the two batteries together. Both are used for starting, but both will discharge together also.

How it Works

When the engine starts charging the starting battery, the smart switch automatically connects the starting battery and house battery together to allow both batteries to be charged. As long as the engine is running and the batteries are charging, the connection will remain. When the engine is turned off and the voltage starts to drop below 12.8V, the smart switch will automatically break the connection between the two batteries. The house battery will continue to draw down when the boat's accessories are used, but the starting battery stays charged and fresh. As soon as the engine is started, the process repeats.

Electrical Connections

Once installed, the only connections to your battery should be the positive and negative cables that run from the Smart Switch box to your batteries. All of engine and boat harness battery connections are made inside the box. There is a ground and power bus inside the box to allow for DC component connections. Circuit protection for additional circuits should be inside the box. ABYC recommends within 7" of power bus. Even though the bus is protected by a main breaker, individual circuit protection should be added.

Notes

Avoid directly spraying water onto the Battery Switch System. Even though the components are all marine grade, it is never a good idea to spray water directly at high current connections.