



Electrical Installation of BW Performance Silent Choice

Your delivery consists of 4 different main parts.

- Silent Choice Diverter
- Bridging cable for installing two units (1m)
- Primary connector cable (6m – open end)
- Off/On/(On)-switch

Safety Instructions

Disconnect batteries or shut off main power switch before performing any electrical installation on your vessel. Only perform this installation if you are aware of the risks of sparks and fire hazards related to dealing with 12V battery power.

When faulty connected, the diverter solenoid has the ability to build up extreme heat. Installing the solenoid requires a full understanding of the connection principles explained below, and with full understanding of the White connector only being used as trigger.

Connection principles

The Diverter Solenoid / Puller motor, has 3 wires. In a single installation, the solenoid connector is connected directly to the primary connector cable. In a twin installation, the two solenoids connect to the bridging cable which in turn connects to the primary connection cable. Only the primary connector cable is in need of point by point connections to external electrical system.

On primary connector open end is found 3 wires with colors according to:

Black

Constant ground. May be cut and connected to closest central ground point.

White

Trigger circuit. Connects to Switch. 12V positive on white runs a high current (25-30A per diverter), that opens your diverter. When white is cut, diverter closes again unless Red also has 12V. White must only be used as a trigger for a short push of approx 1s. Constant 12V on White very quickly builds up high temperature and could cause damage or fire hazard.

Red

Holding circuit. Connects to Switch. 12V positive on red wire runs a low current holding-coil but does not open your diverter. Red is your ON-circuit and remains with 12V after White trigger has been cut. When cutting Red, your diverter closes.

Connecting to Switch

This explains how to connect the attached Off/On/(On)-Switch. For other installation configurations, make sure to comprehend the connection principles, and heed the warnings in this document.

2. Battery 12V through 80A fuse.
4. White Connector
5. Red Connector

