GARMIN_®

REACTOR™ 40 MECHANICAL

THIRD-PARTY DRIVE UNIT AND RUDDER FEEDBACK UNIT WIRING REFERENCE

Important Safety Information

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

You are responsible for the safe and prudent operation of your vessel. The autopilot is a tool that enhances your capability to operate your boat. It does not relieve you of the responsibility of safely operating your boat. Avoid navigational hazards and never leave the helm unattended.

To avoid possible personal injury and damage to your boat, the autopilot system should be installed by a qualified marine installer. Specific knowledge of marine steering and electrical systems is required for proper installation.

△ CAUTION

To avoid possible personal injury, always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

When in use, beware of hot surfaces on the heat-sink, motor, and solenoid components to avoid possible personal injury.

NOTICE

The drive unit movement must be limited by physical end stops. Failure to install end stops will cause the drive unit to act as a travel limiter and will damage the drive unit.

When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel.

Third-Party Drive Units and Rudder Feedback Units

NOTICE

The wiring connection information below is provided to Garmin® by third-party drive unit/rudder manufacturers. Those manufacturers may change the recommended wiring connections at any time without notice to you or to Garmin. Garmin is not responsible for the accuracy, reliability, or timeliness of the wiring connection information provided herein. Consult your drive unit or rudder manufacturer for the most current wiring connection information before connecting your drive unit or rudder to the autopilot system.

This document contains common drive unit and rudder feedback unit wiring connections for a variety of drive units and rudder feedback units

For the most reliable connection information, you must consult your drive unit or rudder manufacturer before connecting your drive unit or rudder feedback unit to the autopilot system.

Drive Units

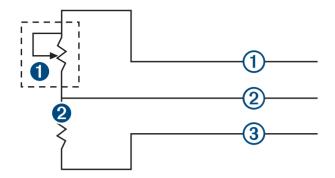
Manufacturer	Motor (+) Red	Motor (-) Black	Clutch (+) Blue	Clutch (-) White	Notes
Raymarine®	Red	Black	Red	Blue	
Octopus [™]	Red	Black	Green	White	
Jefa [™]	Red	Black	Red	Black	
Hy-Pro [™]	Red	Black	Red	Black	
Lecomble & Schmitt [™]	Red	Purple	N/A	N/A	Clutch requires a Lecomble & Schmitt connector
Lewmar [™]	Blue	Black	Blue	Brown	

3-Wire Rudder Feedback Units

Manufacturer	5 Vdc Red	Ground Black	Feedback Signal Yellow	Notes
Raymarine	Red	Green	Blue	
Octopus	Red	Black	White	
Simrad [™] SLF 12	See notes	Black	Red	The SLF 12 unit requires a 12 Vdc supply. You must connect the red wire on the SLF 12 unit to an external 12 Vdc power source.
VETUS™	See notes	See notes	See notes	To use a VETUS feedback unit, you must remove the circuit board and connect the Garmin rudder-feedback cable directly to the potentiometer on the VETUS feedback unit.
$TMQ^{\scriptscriptstyle{TM}}$	Red	Blue	Green	
Teleflex [™] Smart- stick [™]	Red	Black	White	
Lecomble & Schmitt	Blue	Brown	Yellow	You must set all switches on the Lecomble & Schmitt feedback unit to ON .

2-Wire Rudder Rheostat Considerations

To use a 2-wire rheostat **1** for rudder feedback, you must add an external resistor **2** of equal resistance to the feedback unit as shown.



Wire	Color
1	Black
2	Yellow
3	Red

2-Wire Rudder Feedback Rheostat Units

Manufacturer	Resistor Needed
VDO™	180 ohms

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