



OCTOPUS

DETAIL INSTALLATION GUIDE

REV: A 19 SEP 2006

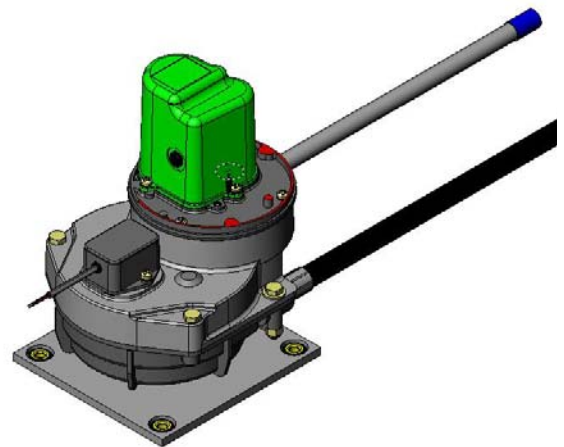
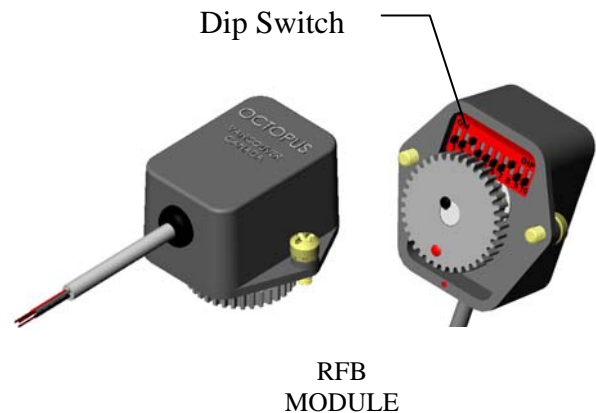


UNIVERSAL RFB MODULE – OC15SUK06

1. SYSTEM OVERVIEW:

The Octopus Universal Rudder Feedback Module can be installed on any Octopus mechanical drive units. By adjusting the dip switch settings the Rudder Feedback Signal will operate with Autopilots from all of the major manufacturers. See Table 1 for Dip Switch settings

TABLE 1		
AUTOPILOT MANUFACTURER	DIP SWITCH SETTINGS	**RESISTANCE
TELEFLEX FURUNO NAVMAN TMQ		1Kohm
RAYMARINE		25Kohm
SIMRAD* COURSEMASTER		3Kohm
COMNAV A/F		4Kohm
* SIMRAD AUTOPILOTS REQUIRE THE ADDITION OF PCB PT # OC15222		
** FIXED RESISTANCE MEASURED BETWEEN BLACK & RED WIRE RESISTANCE BETWEEN WHITE & BLACK WIRE IS VARIABLE		



2. MECHANICAL CALIBRATION PROCEDURE

1. Before installing the drive unit into the vessel, disassemble the RFB module from the drive housing, by removing 2 attach screws.
2. Install the drive unit into the vessel and install the remote steering cable following the drive installation guide.

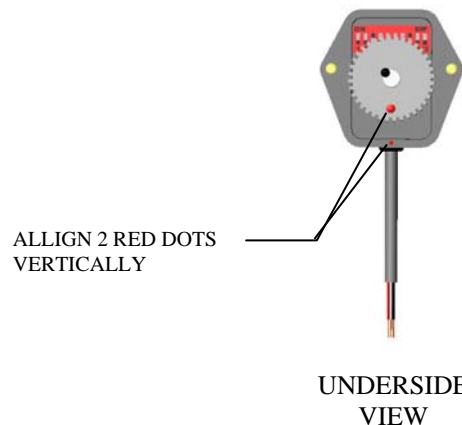
OCTOPUS PRECISION PRODUCTS - VANCOUVER CANADA
TEL 604 940 2010 - FAX 604 952 2650 – website octopusmarine.ca

DETAIL INSTALLATION GUIDE (continued)
UNIVERSAL RFB MODULE – OC15SUK06

3. Complete the electrical hook up of the drive following the drive-autopilot installation guide.
4. Complete the electrical hook up of the RFB module following the drive-autopilot installation guide.
5. Set the DIP switches based on Table 1.
6. Center the gear on the RFB module by aligning the red paint mark on the gear with the red paint mark on the housing as shown in underside view graphic below.
7. By turning the steering wheel of the helm unit, centre the rudder. Note that on power assisted steering systems, you may need to run the engine to achieve this.
8. Reassemble the RFB module to the drive housing and tighten the 2 attach screws. Ensure that the mesh between the RFB module and the drive gear is not excessive.
9. See autopilot installation guide for instructions on additional software controlled RFB fine calibration and HO limitation.



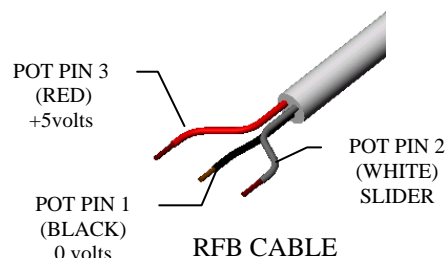
RFB MODULE



UNDERSIDE VIEW

3. ELECTRICAL HOOK UP

1. Following Auto Pilot manufacturers installation guide and wiring diagram, connect 3 x 24 AWG wires + shield core (supplied in jacketed cable) from RFB module with Auto Pilot junction box.
2. Following Auto Pilot manufacturers installation guide, perform electrical tests.



4. HOOK UP TABLE

TABLE 2			
<i>OCTOPUS</i>	<i>RAYMARINE</i>	<i>SIMRAD</i>	<i>NAVMAN</i>
Red	Red	Use OC15222 See Separate Wiring Guide	Orange
Black	Green		Black
White	Blue		Blue
Shield	Silver		Black