# **Teleflex**®

MARINE

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ISO 10592

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## INSTALLATION INSTRUCTIONS SUPPLEMENTAL



Autopilot Rudder Reference

### **TOOLS REQUIRED**

Before you do it your way, please try it our way

- 5/8" Wrench
- 5/16" Wrench
- 11/32" Wrench3/32" Allen KeyTorque Wrench
- **INSTALLATION INSTRUCTIONS**
- 1 Remove the nuts and washers (item 1 and 2) from the steering cylinder rod. Discard washers (item 2) as they will not be used in the SmartStick installation.
- 2 Install brackets (item 3) onto the ends of the cylinder support rod. Re-install the nuts (item 1) and torque to 33 in/lbs (3.82 Nm).
- 3 Install the sensor (item 4) behind the brackets as shown in figures A and B.
- **4** Mount the magnet (item 5) to the center of the cylinder body with the arrow pointed in the same direction as the arrow on the sensor.
- **5** Turn steering cylinder so that the magnet arrow and the sensor decal arrow are nearest each other.

- **6** Without changing the position along the length of the cylinder, **rotate** the magnet on the cylinder so that the arrows on the sensor and magnet are as closely lined up as possible.
- 7 Tighten band clamp to 3 in/lbs (0.35 Nm) to secure the magnet in position.

#### NOTICE

Correct installation of the magnet is important to the overall operation of the autopilot.

#### NOTICE

Over tightening clamp may cause magnet to break.

8 Connect Rudder Reference to autopilot as per autopilot installation instructions. Refer to Table 1 to ensure correct application.

- 9 Move the steering cylinder from hard over to hard over to confirm that the autopilot receives a signal from the sensor at ALL cylinder positions.
- **10** Install strain relief (item 6).

#### NOTICE

Failure to install the strain relief may result in irreparable damage to the sensor.

11 Using an assistant, turn steering wheel hard-over to hard-over while inspecting for interference of the SmartStick with ANY other object. Check steering in ALL engine trim/tilt ranges and throughout the entire steering arc. Any interference MUST be corrected prior to use.



