# **Teleflex**®

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

**HYDRAULIC** 

TELEFLEX CANADA 3831 NO.6 ROAD RICHMOND, B.C. CANADA V6V 1P6

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### INSTALLATION INSTRUCTIONS **SUPPLEMENTAL**



## Autopilot Rudder Reference

## **TOOLS REQUIRED**

5/8" Wrench 5/16" Wrench 11/32" Wrench 3/32" Allen Key Torque Wrench

## INSTALLATION INSTRUCTIONS

- 1 Remove the nuts and washers (item 1 & 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. lb. (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. lb. (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.



