

Figure A

NOTICE

DO NOT install the sensor in front of the mounting bracket. Doing so will result in interference with the steering cylinder (refer to Figure B). Be sure to check for interference at all engine positions before proceeding.

NOTICE

If the SmartStick bracket does not fit around the steering cylinder bracket contact Teleflex Canada for replacement brackets.

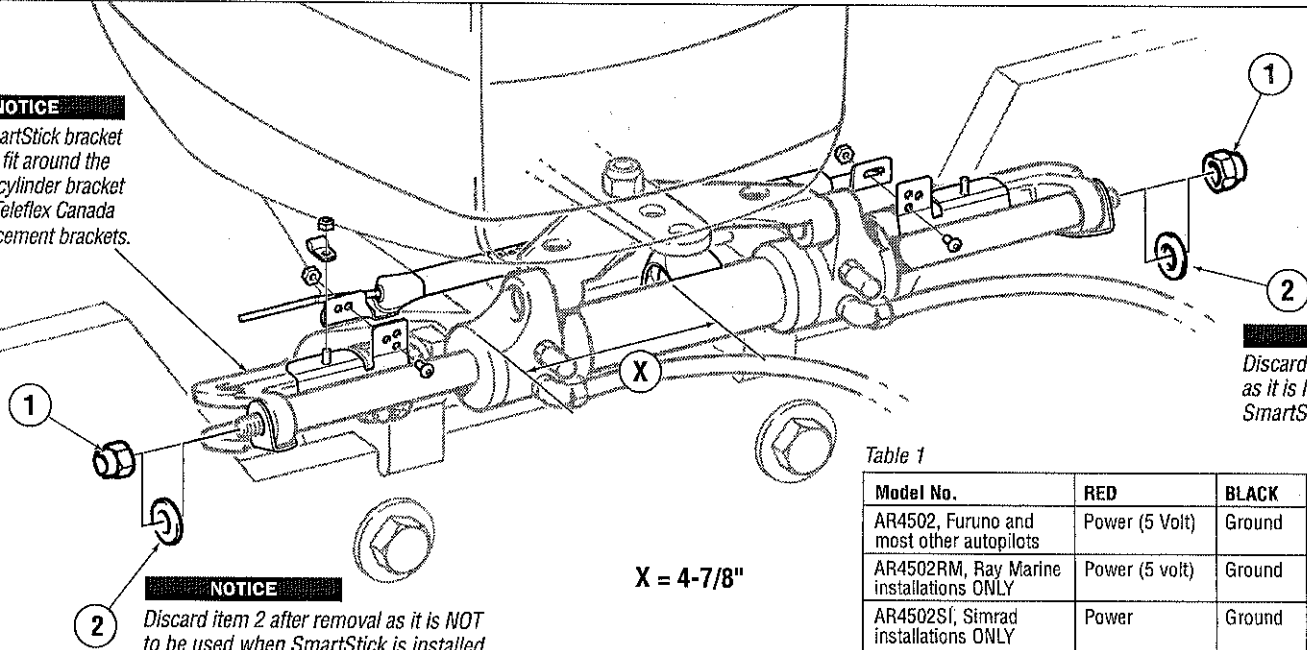
CAUTION

The SmartStick rudder reference unit will **ONLY** mount to Evinrude and Yamaha 4-Stroke engines when using a HC5358 front mount cylinder.

NOTICE

Discard item 2 after removal as it is **NOT** to be used when SmartStick is installed.

X = 4-7/8"



NOTICE

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Table 1

Model No.	RED	BLACK	WHITE
AR4502, Furuno and most other autopilots	Power (5 Volt)	Ground	Signal (0.5 V – 4.5 V)
AR4502RM, Ray Marine installations ONLY	Power (5 volt)	Ground	Signal (2.2 V – 2.8 V)
AR4502SI, Simrad installations ONLY	Power	Ground	N/A

Figure B

NOTICE

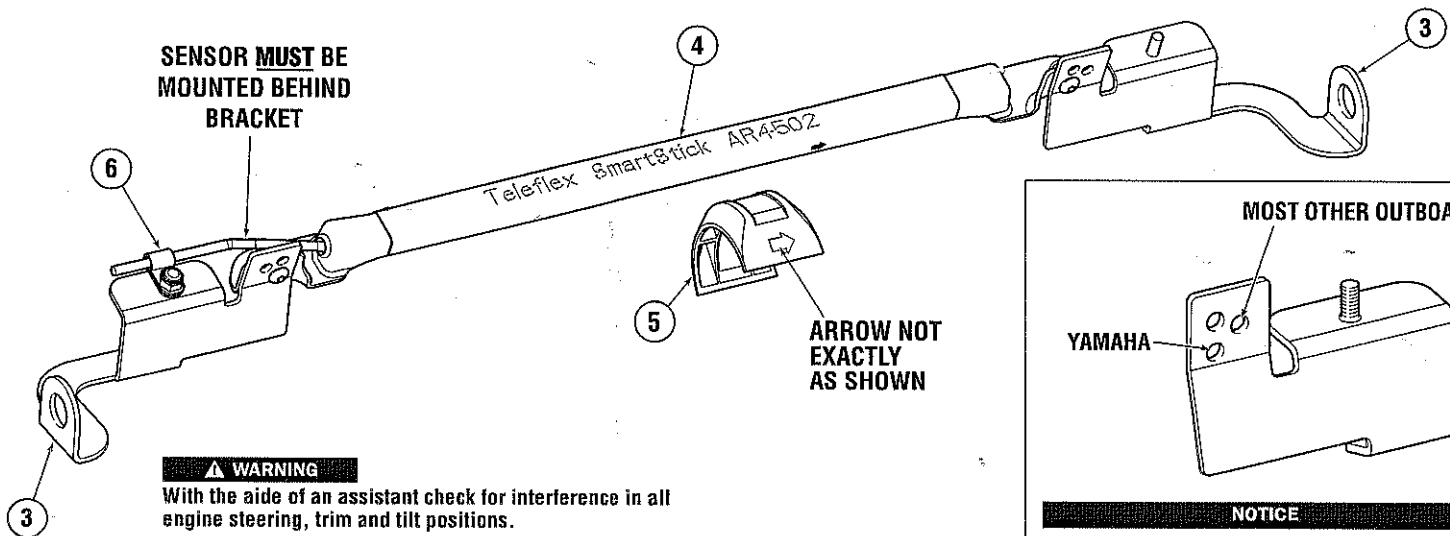
The sensor (item 4) may be mounted in an inverted/flipped position to allow the cable to exit on the port side. In either case the magnet arrow **MUST** point in the same direction as the arrow on the decal of the sensor.

SENSOR MUST BE MOUNTED BEHIND BRACKET

ARROW NOT EXACTLY AS SHOWN

WARNING

With the aide of an assistant check for interference in all engine steering, trim and tilt positions.

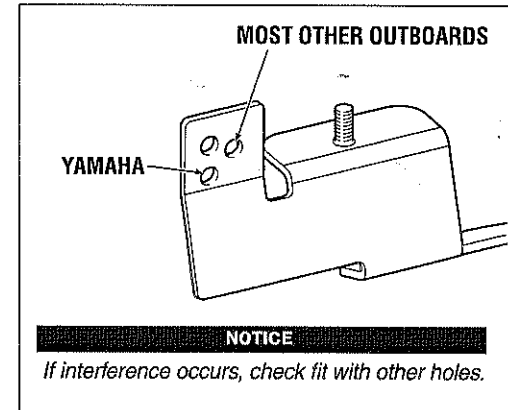


MOST OTHER OUTBOARDS

YAMAHA

NOTICE

If interference occurs, check fit with other holes.



Teleflex®

HYDRAULIC

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

FAX 604-270-7172

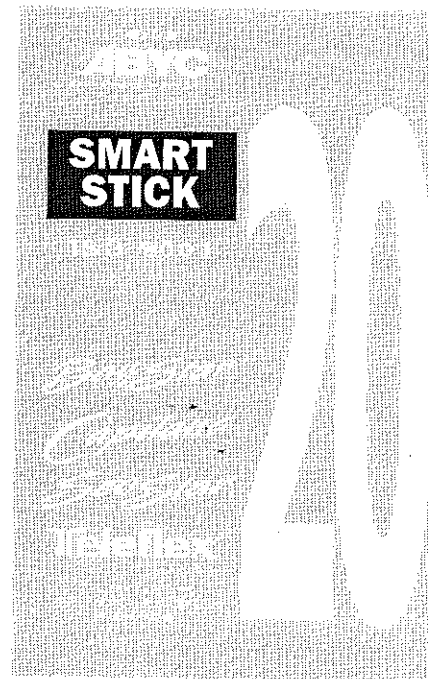
www.seastarsteering.com

ISO 10592

CE

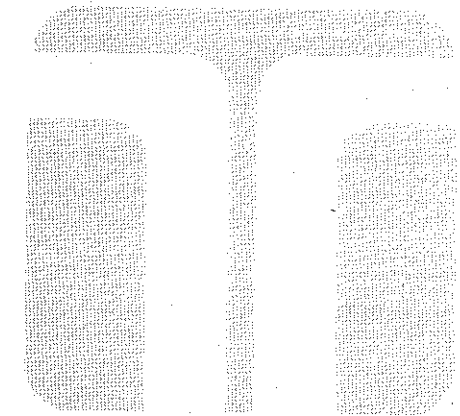
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*Before you do it your way,
please try it our way*



INSTALLATION INSTRUCTIONS

SUPPLEMENTAL



Smart Stick™

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.