

SEASTAR SMARTSTI **◇> DOMETIC**

www.dometic.com

RICHMOND, B.C.

CANADA V6V 1P6

3831 NO.6 ROAD DOMETIC VANCOUVER

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ISO 10592

FORM NO. 269064 REV. J

△ WARNING

Autopilot Rudder Reference

Cancer and Reproductive Harm www.P65Warnings.ca.gov

[REVISION J] Form No. 269064 | ©2021 Dometic Corporation

Installation Instructions Supplemental — Book 20

lools required

Safety video latest **Boating** and watch our

this QR code

Please scan

Wrenches 5/8", 5/16", 11/32"
3/32" Allen key
Torque wrench



NOTICE

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

Installation procedure

- 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
- Ò lurn steering cylinder so that the magnet arrow and the sensor decal arrow are
- <u>ن</u> Without changing the position along the length of the cylinder, rotate the magnet or the cylinder so that arrows on sensor and magnet are as closely lined up as possible.

7. Install band clamps onto rubber bracket after positioning onto barrel, as per figure 1. clamps to 10 in/lbs to secure rubber bracket in position. Each clamp will fit into a recessed gap on either side of magnet. Tighten band



NOTICE

Do not distort the rubber magnet housing or over-torque the band clamps while tightening.

- 8. Connect Rudder Reference to auto-pilot 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 corrected prior to use trim/tilt ranges and throughout the entire steering arc. Any interference must be interference of the SmartStick with any other object. Check steering in all engine



-N

HC5345-3 cylinder shown.



NOTICE!

2X BAND CLAMPS

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

NOTICE!

of the mounting bracket, Doing figure 2). Be sure to check the steering cylinder (refer to so will result in interference with Do not install the sensor in front positions before proceeding for interference at all engine



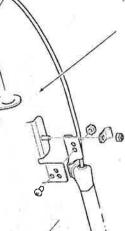
Yamaha 4-Stroke engines installed on Evinrude or HC5358-3 cylinder when reference unit may require an

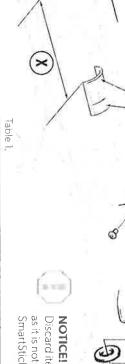
The SmartStick rudder

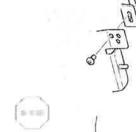
removal as it is not to be used **NOTICE!** Discard item 2 after

X = 4-5/8"





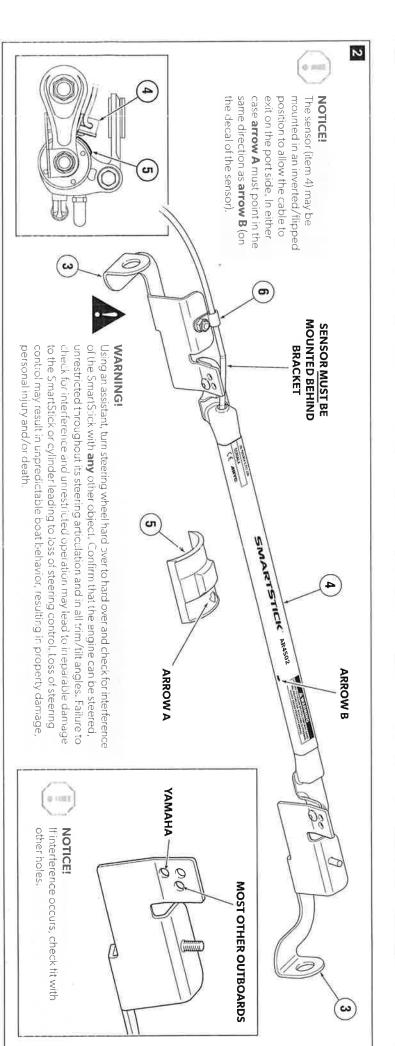






as it is not to be used when SmartStick is installed. Discard item 2 after removal

Model No.	RED	BLACK	WHITE
	Power	Ground	Signal
resistive rudder feedback units	(5 Volt)		(0.5 V - 4.5 V)
AR4502RM, Ray Marine installations only	Power (5 Volt)	Ground	Signal (2.2 V – 2.8 V)
AR4502SI, Simrad AP20 installations only	n/a	Ground	Signal (2800 – 4000 Hz)





INSTALLATION INSTRUCTIONS

Copy Part# 269071, Rev. D, 06/2015

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SMARTSTICK

MAGNET KIT # HA5479

For use with Yamaha F250-F350 installations & ALL -3 pivot cylinders

A CAUTION

Refer to ALL Warnings, Cautions and Notices as shown in the SmartStick Installation Instruction Sheet #269064.

Magnet Installation

1. Mount sensor (Item 1) to steering cylinder following steps 1 – 3 as shown in SmartStick installation instructions included with your SmartStick (Instruction Sheet #269064).

NOTICE

Use the X dimension shown in THESE instructions to ensure magnet is centered correctly.

A CAUTION

DO NOT distort the rubber magnet housing when tightening.

2. Mount magnet assembly (Item 2) to the center of the cylinder body and orientate as shown in Figure A. Ensure that arrow (A) is pointing in the same direction as arrow (B) on the SmartStick Sensor. Secure the two hose to the magnet and torque clamp nuts to 10 in.lb. +/-5.

NOTICE

Failure to have arrow (A) pointing in the same direction as arrow (B) will result in an inactive unit.

3. Continue with steps 5 - 11 as shown in the SmartStick Installation Instructions.

