

INSTALLATION INSTRUCTIONS

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SEASTAR

SPORT PLUS TILT MECHANISM REPLACEMENT, Part #HA6423

A WARNING

This kit is designed to replace the tilt portion of a SeaStar Sport, or SeaStar Sport Plus helm pump. In ALL cases, the tilt mechanism, dash plate and ALL mounting hardware included with this kit is to be used. DO NOT use any of the older parts that you will be removing.

SeaStar Sport and Sport Plus Tilt Mechanism Removal

(Refer to figures A and A1 on page 2)

- 1. Remove steering wheel.
- 2. Remove decorative covers.
- **3.** Turn steering wheel shaft to that you can view the socket head screw (item 7) holding the tilt mechanism to the helm pump shaft. (Refer to figure A1.)
- **4.** Remove socket head screw that is "closest" to the helm pump.
- 5. Slide the tilt mechanism off of helm pump wheel shaft.

NOTICE

If tilt mechanism is difficult to remove, loosen but do not remove the 2nd socket head screw. (Refer to figure A1.)

NOTICE

The following step will require the helm dash plate to be removed. Measures MUST be taken to support the helm pump when the plate is removed.

- 6. Remove 4 HHCS bolts (item 5).
- 7. Remove 3 carriage bolts, nuts and washers (items 2, 3 and 4).

A CAUTION

Ensure that the helm pump AND the helm filler tube are supported to prevent damage to either the helm and/or filler tube.

SeaStar Sport Tilt Mechanism ONLY Installation

(Refer to figures A and A1 on page 2)

- **1.** Using the 3 carriage bolts, nuts and washers (items 2, 3 and 4) secure the NEW dash plate (item 16), to the dash. Torque to 160–180 in/lb.
- 2. Fasten the helm pump onto the NEW dash plate (item 16) using the 4 bolts (item 5) provided in the kit. DO NOT exceed 110 in/lb. on bolts.

NOTICE

You **MUST** use the NEW dash plate provided (item 16) for this installation.

SeaStar Sport and Sport Plus Tilt Installation

(Refer to figures A and A1 on page 2)

1. Attach helm shaft to the tilt mechanism (item 6) by lining up the coupling slot with the helm shaft tongue and secure with the one 10–24 NC x 7/8" bolt (item 7). Torque **BOTH** bolts to 20–24 in/lb. (Refer to figure A1.)

NOTICE

If the helm pump shaft is difficult to locate into the tilt mechanism coupling, loosen the TOP screw in the coupling by **NO MORE** than 1/4 of a turn. Ensure that this screw is fully tightened before installing the bezels.

2. Install and tighten the two PHMS 5/16" NC x 3/4" screws (Item 8) and the star washers (Item 9) to secure the tilt mechanism to the dash plate. Torque to 160–180 in/lb.



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▲ WARNING

Use self-locking fasteners provided ONLY; substituting non-self locking fasteners can result in loosening or separation of equipment leading to loss of steering control causing property damage and/or personal injury or death.

- **3.** Install the boot latch (item 10) onto the tilt latch of the tilt mechanism.
- **4.** Fit the upper bezel (item 11) into the lower bezel (item 12) and position two parts over the tilt mechanism and boot. Install the 5 x BHSCS 8-32 x 1/2" SS (item 13) screws into the position shown in figure A.
- **5.** Grease steering shaft with good quality marine grade grease.
- **6.** Install the woodruff key (item 14) and wheel shaft nut (item 15), Tighten steering wheel shaft nut prior to continuing with installation instructions. Torque wheel shaft nut to 150 in/lb. **DO NOT** exceed 200 in/lb.
- **7.** Confirm proper function of the tilt mechanism by performing the following points.
 - Push tilt latch forward to 'unlock' the tilt mechanism.
 - Check ALL positions of the tilt and confirm that the latch 'locks' in place for each position, tilt lever will click back into the locked position.

NOTICE

Ensure that tilt latch boot (Item 10) is properly fitted into the slots provided in the lower bezel.

