

SEASTAR™

HC6845 AND HC6845S CYLINDER SEAL KIT

Throughout this publication, Warnings and Cautions (accompanied by the International Hazard Symbol) are used to alert the user or installer to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. **OBSERVE THESE CAREFULLY!** These 'safety alerts' alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions when performing the installation and maintenance, plus 'common sense', are major accident prevention measures.

NOTICE

Protect yourself and your environment. ALWAYS wear approved safety glasses and protective equipment to avoid injury. ALWAYS dispose of used oil in an environmentally conscientious manner and be sure to adhere to local and Federal environmental laws. Keep your waters clean so that they can be enjoyed by all.

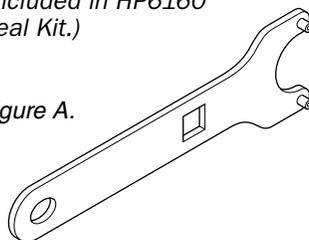
Applicable Cylinders

CYLINDER PART#	DESCRIPTION	SEAL KIT PART#
HC6845	Tournament II Front Mount Cylinder	HP6160
HC6845S	Tournament II Front Mount Cylinder	HP6160
HC6850	Reduced Stroke Tournament II Front Mount Cylinder	HP6160

Tools Required

- Cylinder End Gland Wrench.
(Included in HP6160 Seal Kit.)

Figure A.



- 9/16", 1/2", 5/8" and 3/4" open end, or box type wrench.
- Torque wrench.
- 5/8" and 3/4" socket.
- 9/16" long socket with extension.
- Good quality marine grease.

Installation Instructions

1. Referring to figure B disconnect and remove BOTH support brackets (item 1).
2. Note location of spacers (item 10) on support rod (item 9), loosen hexagon set screw and remove adjusting nut (item 6). Remove support rod/spacers completely.
3. Turn steering wheel hard over to the **starboard** side. This will locate the cylinder piston at the starboard side seal minimizing the amount of fluid that will leak out when the gland is removed.
4. Loosen and remove the **starboard** gland retaining bolts (item 2). Keep gland retaining bolts as they will be re-used.
5. Remove locking gland decal from end gland to access pin wrench holes.
6. Place provided pin wrench (item 4) into the holes in the **starboard** cylinder end gland.



⚠ WARNING

Thread locker MUST be installed onto all four retaining bolts. Failure to do so may lead to separation of components resulting in loss of steering control. Loss of steering control may result in unpredictable boat behavior, leading to ejection from boat causing property damage, personal injury and/or death.

7. Loosen and remove **starboard** cylinder end gland (item 7).
 8. Lightly lubricate new end gland seals using SeaStar steering fluid.
 9. Place seal guide (item 5) onto the end of the cylinder shaft.
 10. Install new end gland (item 7) tightening to 50 ft.lb.
 11. Apply provided thread locker (item 8) to both retaining bolts.
 12. Reinstall **starboard** gland retaining blocks (item 3) and retaining block bolts (item 2). Torque bolts (item 2) to 50 ft-lb.
 13. Turn steering wheel to **port** side and repeat steps 4 to 12 on the **port** side of the cylinder.
 14. Affix locking gland decal (item 11) to both starboard and port side end glands.
 15. Remove seal guide (item 5) from steering cylinder shaft.
 16. Clean and re-grease engine steering/tilt tube, support rod (item 9) and support brackets (item 1).
 17. Install greased support rod, greased support brackets, spacers and adjusting nut in orientation that you noted in step 2. Once support bracket nuts are tightened and torque, hand-tighten the adjusting nut (counter-clockwise) to remove any play, tighten hexagon nut to lock adjusting nut in place.
- NOTE:** For complete installation instructions and important safety information please refer to your Owner's and Installation manual, Book 48, part # 383110.
18. Bleed system as per your Installation Manual.

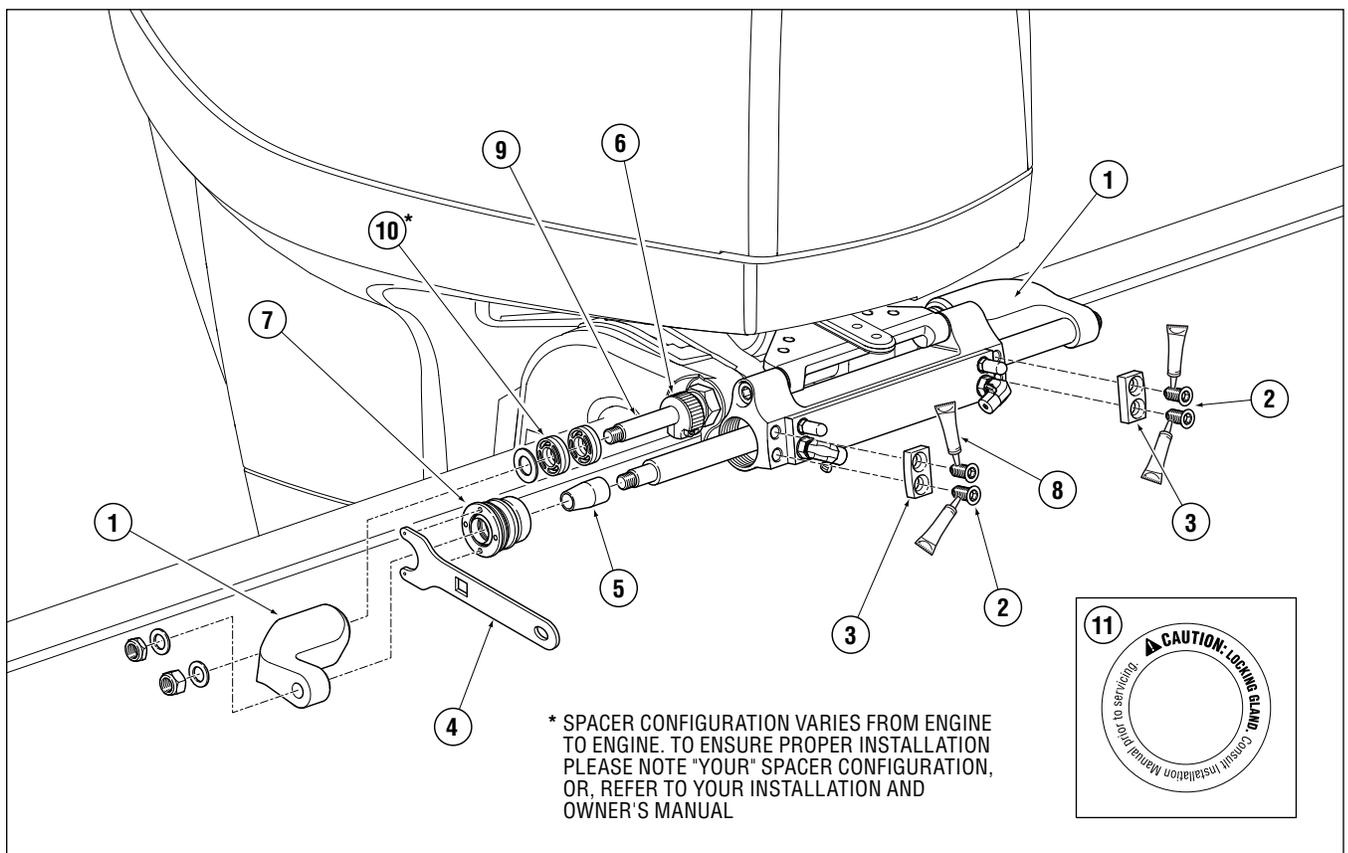


Figure B.