

## BayStar Steering Kits

BayStar Steering kits come complete with everything needed for an install, (some engines require additional kits and/or cylinder plate change, see application chart on *page 1-5*) the cylinder does not require the engine manufacturer drag link for connection. For your convenience two lengths of 20' cut to fit tubing are supplied with the HK4200A-3 and two lengths of 30' cut to fit tubing are supplied with the HK4230A-3 kit.

### NOTICE

HC4645-3 compact cylinder is included in both BayStar Steering Kits. If your engine requires the use of a cylinder other than HC4645-3 or HC4658-3 (refer to application guide on page 1-5) then purchase of a replacement Pivot Plate (noted on page 1-5) will be required.



### BAYSTAR STEERING KITS:

**HK4200A-3** – BayStar helm, HC4645-3 cylinder, two 20' hoses and fluid.

**HK4230A-3** – BayStar helm, HC4645-3 cylinder, two 30' hoses and fluid.

**HK4300A-3** – BayStar helm, HH4645-3 cylinder and fluid, NO hose.

**HK4500A-3** – BayStar PLUS helm, HH4645-3 cylinder and fluid, NO hose.

Figure 1-7.

### NOTICE

*Effort Reduction* — SeaStar Solutions has recently updated the BayStar cylinder. These updates include low friction main piston seals as well as low friction wiper and gland seals. If one chooses to further reduce steering effort, the following additional changes can be made:

- Consider plumbing the system using SeaStar Steering hoses. See page 9-2.
- Consider use of a BayStar Plus 1.4 cu.in. helm pump (HH4513-3/ HH4514-3).
- Consider use of a BayStar 1.1 cu.in. helm pump (HH4311-3).

**NOTE:** Number of wheel turns will increase to 6.6 hard over to hard over.

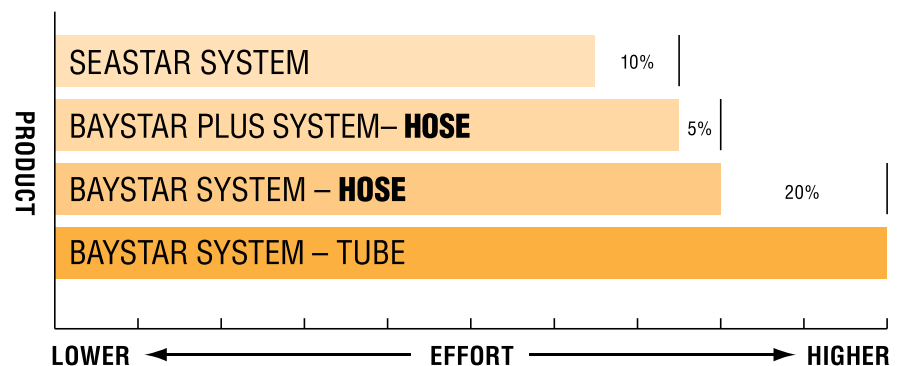


Figure 1-8.

# BayStar Outboard Steering Application Guide

(BayStar Compact Cylinders HC4645-3/47-3/48-3/58-3)

MFG	YEAR	MODEL	CYLINDER	NOTES
<b>HONDA</b>	1992–DATE 1996–DATE 2015–DATE 1998–2010 2003–DATE 2010–DATE	30-50HP 75-90HP BF100 115-130HP 135-150HP 115HP	HC4645-3 HC4645-3 HC4645-3 HC4647-3 HC4645-3 HC4645-3	See Note 2
<b>JOHNSON/ EVINRUDE</b>	1991–DATE 1997–DATE 1997–DATE 1998–DATE	40–150 HP inc. E-Tec 115 HP FICHT 75–150 HP FICHT 40–140 HP 4-Stroke	HC4645-3 HC4658-3 HC4645-3 HC4658-3	See Note 2 See Note 4 See Note 5 See Note 1, 2, 4
<b>MERCURY/ MARINER</b>	1984–DATE 1998–DATE	75–150 HP 40–60 HP	HC4645-3 HC4648-3	See Note 5 See Note 1, 2
<b>SELVA</b>	2000–DATE 2000–DATE 2011–2013	25-70 HP 90-150 HP 4-Stroke 115 HP	HC4648-3 HC4645-3 HC4658-3	See Note 1, 2 See Note 5
<b>SUZUKI</b>	1986–DATE 1987–2002 1990–2000 1998–DATE 2001–DATE	150 HP 115–140 HP 90–100 HP 40–70 HP 4-Stroke 90–140 HP 4-Stroke	HC4645-3 HC4645-3 HC4645-3 HC4645-3 HC4658-3	See Note 5 See Note 1  See Note 1, 2 See Note 1, 4
<b>TOHATSU</b>	1990–DATE 2014–DATE	40–140 HP BFT60 - BFT150	HC4645-3 HC4645-3	See Note 2
<b>YAMAHA</b>	1998–DATE 1998–DATE 1986–DATE 1997–DATE 2000–DATE 2011–DATE 2014–DATE	40–50 HP 60 HP 70–90 HP 2-Stroke 80–150 HP 4-Stroke 25-70 HP 4-Stroke F115A inc. SHO 90 & 115 HP F115B	HC4645-3 HC4645-3 HC4645-3 HC4645-3 HC4648-3 HC4658-3 HC4645-3	See Note 2 See Note 3 See Note 1 See Note 5 See Note 1, 2

1. Requires Spacer kit part # HO5090

2. Engine clamp brackets must be cut or ground, and the engine through bolted onto the transom, or interference will occur, restricting engine trim and tilt.

3. Steering hook Yamaha Part # 63D-48511-00-4D must be installed

4. Cylinder HC4645-3 may be used in these applications. The pivot plate will need to be flipped before installation. Instructions provided with Owner's Manual.

5. High performance 150HP engines and any engine using a 4-3/4" gear-case such as Command Thrust MUST use SeaStar.

Revision Date: **SEPTEMBER 18th 2019**

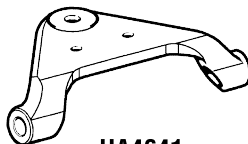
## NOTICE

*HC4645-3 compact cylinder is included in the BayStar Steering kits. If your engine requires the use of a cylinder other than HC4645-3 or HC4658-3 then please refer to the figure below for additional replacement pivot plate.*



**HA4640**

Comes with cylinder HC4645-3



**HA4641**

Converts HC4645-3 to HC4647-3



**HA4642**

Converts HC4645-3 to HC4648-3



**HA4643**

Converts HC4645-3 to HC4658-3

Figure 1-9.