SEASTAR"

SEASTAR TOURNAMENT SERIES CYLINDERS AND ADJUSTABLE TIE BAR

APPLICATIONS

Extreme heavy duty cylinders and tie bars designed for primarily high performance multiple engine applications.

Also available for single engine applications.

FEATURES

- Suitable for use with all SeaStar Helms & SeaStar Power Assist
- Heavy duty universal cylinder
- Bolt on stainless steel tie bar plates, also reversible (patent pending)
- Robust design with heavy duty support brackets, barrel, shaft & seals
- Superior corrosion resistance
- New pivot plate design provides smooth articulation and a sealed joint (patent pending)
- Heavy duty adjustable tie bar (patent pending)
- Equipped with stainless steel adjustable o-ring sealed elbow fittings which can be easily orientated in any direction

Issue Date - April 2014 Issue Number - hos9



ORDER INFORMATION

CYLINDERS	PART No.	
Outboard Tournament Series Cylinder, Front Mount	HC6845	
Outboard Tournament Series Cylinder, Front Mount, c/w Single Engine Hardware Kit	HC6845S	
TIE BAR		
Tournament Series Tie Bar, Small	HO6820	
Tournament Series Tie Bar, Medium	HO6821	
Tournament Series Tie Bar, Large	HO6822	
Tournament Series Tie Bar, X-Large	HO6823	
HARDWARE		
Tournament Series Hardware Kit Twin Engine, Single Cylinder STBD	HA6802	
Tournament Series Hardware Kit Twin Engine, Dual Cylinder	HA6804	
Tournament Series Hardware Kit Triple Engine, Dual Cylinder	HA6806	
Tournament Series Hardware Kit Quad Engine, Dual Cylinder	HA6811	
FITTING / SERVICE		
Elbow Fitting Service Kit	HF6004	
ORB Tee Fitting Kit	HF6005	
Gland Service Kit	HP6160	
Support Rod Service Kit	HP6161	
Support Bracket Service Kit	HP6162	









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APPLICATION GUIDE - ALL ENGINE MAKES - 200+ HP

CONFIGURATION	CYLINDER		HARDWARE KIT		TIE BAR				NOTES
	PART NO.	QTY.	PART NO.	QTY.	PART NO.	QTY.	CENTER TO CENTER (IN.)	CENTER TO CENTER (MM)	
Single Engine	HC6845S	1	Included			N/A	N/A	N/A	1
Twin Engine - Single Cylinder (STBD)	HC6845	1	HA6802	1	HO6821 HO6822 HO6823	1	25.0 - 25.6 25.7 - 30.6 30.7 - 39.0	635 - 650 653 - 777 780 - 991	1,3,4,5 HA6802 Drive Bracket Avail- ability - TBD
Twin Engine - Dual Cylinder	HC6845	2	HA6804	1	HO6820 HO6821 HO6822 HO6823	1	25.0 - 26.5 26.6 - 29.3 29.4 - 34.2 34.3 - 43.0	635 - 673 676 - 744 747 - 869 871 - 1092	1,3,4,5
Triple Engine - Dual Cylinder	HC6845	2	HA6806	1	HO6822 HO6823	2	25.0 - 27.9 28.0 - 36.0	635 - 709 711 - 914	1-5 Maximum drop: ≤ 3 inches (76mm)
Quad Engine - Dual Cylinder	HC6845	2	HA6811	1	Consult Sea	1,3,4,5			
Quintuplet Engine (Plus)	Consult SeaStar Solutions technical service							1,3,4,5	

IMPORTANT:

Each configuration requires a hardware kit and tie bar kit(s), with the exception of the single engine configuration.

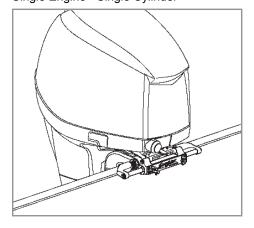
NOTE:

The Kicker Cable Tiebar will ONLY work with SeaStar HC5345, HC5358 and HC5348 steering cylinders.

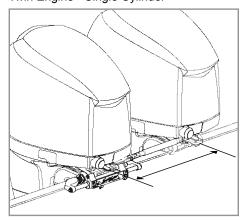
Issue Date - April 2014 Issue Number - hos9

ENGINE CONFIGURATIONS

Single Engine - Single Cylinder



Twin Engine - Single Cylinder











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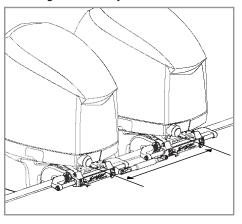
INSTALLATION NOTES:

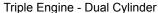
- 1) Installation may vary according to the following factors: engine mounting height, transom thickness, use of transom savers, tiller bolt hole location, engine tilt range, and engine size.
- For center engine drops greater than 3 inches (76mm), please consult SeaStar Solutions Technical Service.
- 3) Tie bar length may vary depending on toe in/toe out setup. To allow for toe, add or subtract from your nominal engine center to center distance.
- 4) Based on recommended engine manufacturer minimum center to center distances. Deviating from these recommendations may require stroke limiting cylinders and/or engine tilt limiting, please consult SeaStar Solutions Technical Service.
- 5) Cylinder's must be plumbed in parallel only, no series connections. Only exception is if cylinders are utilizing a liquid tie bar.

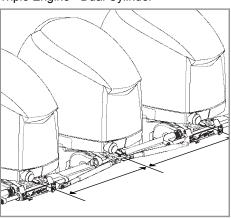
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ENGINE CONFIGURATIONS

Twin Engine - Dual Cylinder

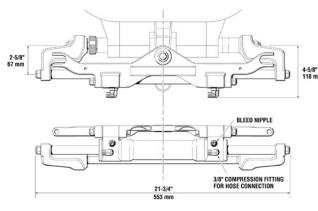


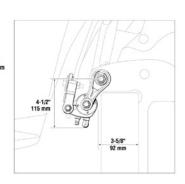




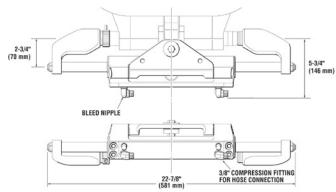
TECHNICAL DATA

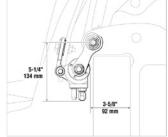
SeaStar Current Tournament Cylinder





New Tournament Series Cylinder





Maximum tilt angles shown - 67°

Typical transom thickness shown, but will vary.





