



Assembly Parts

A. Fin Nut *	M. Yoke Locking Cylinder
B. Hull Doubler Plate (Note 2)	N. Locking Cylinder Screw
C. Hull Flange Bolt (Note 3)	R. Yoke Clamping Screw
D. Augmented hull thickness (Notes 1 & 5)	S. Top Plate
E. Inboard Hull Flange (Note 4)	T. Top Plate Screw
F. Hull Flange Spacer (Note 5)	U. Actuator Cylinder
G. Companion Flange	V. Position Sensor Cover
H. Hull Flange Jacking Screw (Note 6)	W. Sensor Cable Cover
J. Actuator Flange Bolt	
K. Actuator Flange	
L. Lock Cylinder Platform	

Assembly Fasteners

Part	Description	Qty	Size	Install Torque ft-lb / (Nm)	Install with Coating ***
A.	Fin Nut *	1	M48 -5.0	1000 / (1356)	Loctite® 262
C.	Hull Flange Bolt	8	M24 -3.0	250 / (339)	3M® 5200
H.	Flange Jacking Screw	3	M16 -20	-- --	--
J.	Actuator Flange Bolt	8	M24 -3.0	400 / (542)	H
N.	Locking Cylinder Screw	4	M16 -2.0	180 / (244)	M
R.	Yoke Clamping Screw	1	1" -14	500 / (678)	H
T.	Top Plate Screw ****	8	M20 -2.5	95 / (129)	M
T.	Top Plate Screw	1	M16 -2.0	70 / (95)	M
V.	Sensor Cover Screw	6	M5 -0.8	1.5 / (2.0)	--
W.	Cable Cover Screw	6	M3 -0.5	0.3 / (0.4)	--

* Requires 80 mm hex socket.

*** M = Medium strength thread lock compound; H = High Strength thread lock compound.

Installation torques shown here require coating on threads and also, as lubricant, under bolt head or nut, whichever is turned.

**** 0.75" x 2" dowel pins at each of four main top plate legs.

NOTES:

- It is the responsibility of the installer to determine what reinforcement measures should be taken to properly strengthen the hull for withstanding forces that may be encountered if the fin or the fin shaft strikes an immovable object while the vessel is under way. Recommendations made by American Bow Thruster are to be used as starting guidelines only. American Bow Thruster is NOT a naval architecture firm and is NOT qualified to advise on structural matters. American Bow Thruster strongly recommends that you seek the advice of a naval architect familiar with your make of vessel.
- The Hull Doubler Plate is a retainer surface for assembly fasteners and sealants. The Hull Doubler Plate should NOT be considered to provide structural hull reinforcement.
- The Hull Flange Bolts will through-bolt the Hull Doubler Plate, Inboard Hull Flange, Spacers, and Companion flange.
- Inboard Hull Flange with eight integral riser columns and adjustable spacer stacks.
- The range of hull thickness that can be accommodated by standard actuator equipment is 2.5" to 4.0". See the TRAC Stabilizer Installation Manual for additional details concerning this thickness range.
- Hull Flange Jacking Screws are used during installation and removed after final flange bedding.
- Actuator specifications and dimensions are subject to change without prior notice. Do not use this print for final installation without contacting the factory for certified dimensions.

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	DRAWN	RJP	440		
	CHECKED		Parts & Dimensions for Fiberglass Hull Installation		
ISSUED	06/11/2005	SCALE:	NONE	SHEET:	1 OF 1
					REV: B