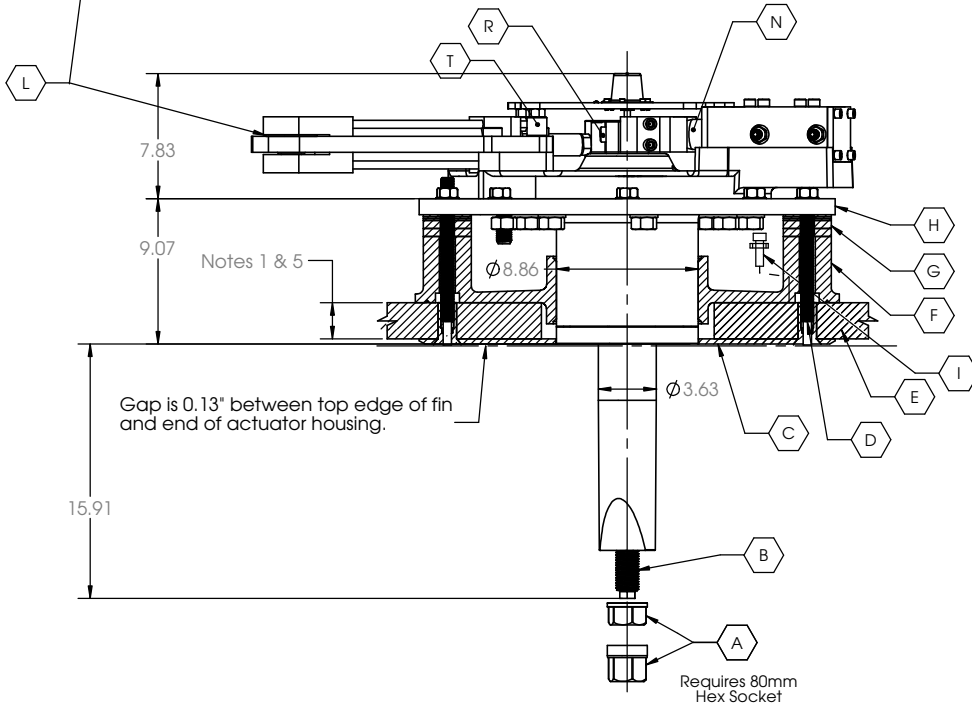


Nylon Washers must be installed between the top surface of the rear mount hoop or yoke and the clevis as shown



### Assembly Parts

A. Fin Nut*	M. Lock Assembly Platform	Wa. Sensor Cable Cover Screw
B. Actuator Shaft Stud	N. Yoke Locking Cylinder	X. Cylinder Mount
C. Hull Doublor Plate (Note 2)	O. Locking Housing	Xa. Cylinder Mount Bolt
D. Hull Flange Bolt (Note 2)	Oa. Locking Housing Bolt	Xb. Cylinder Mount Dowel Pin
E. Augmented Hull Thickness (Notes 1&5)	P. Clevis Pin	
F. Inboard Hull Flange (Note 4)	R. Yoke Clamping Bolt	
G. Hull Flange Spacer (Note 5)	S. Top Plate	
H. Companion Flange	Sa. Top Plate Screw	
I. Hull Flange Jacking Screw (Note 6)	T. Top Plate Standoff	
J. Actuator Flange Bolt	U. Actuator Cylinder	
K. Actuator Flange	V. Position Sensor Cover	
L. HDPE Washers (X2)	Va. Position Sensor Cover Screw	
	W. Sensor Cable Cover	

### Assembly Fasteners

Part	Description	Qty	Size # or inch	Install Torque ft-lb / (Nm)	Install with Coating**
A	Fin Nut *	1	M36 - 4.0	800 / (1085)	Loctite 262
D	Hull Flange Bolt	8	M20 - 2.5	150 / (203)	3M 5200
I	Flange Jacking Screw	3	M16 - 2.0	--	--
J	Actuator Flange Bolt	8	M24 - 3.0	400 / (542)	H
Oa	Locking Housing Bolt	4	M12 - 1.75	75 / (102)	M
P	Clevis Pin	2	--	--	N
R	Yoke Clamping Bolt	1	M16 - 2.0	190 / (258)	H
Sa	Top Plate Screw	3	M12 - 1.75	30 / (40)	M
T	Top Plate Standoff	3	M12 - 1.75	48 / (65)	H
Va	Sensor Cover Screw	6	10-32	--	--
Wa	Cable Cover Screw	6	6-32	--	--
Xa	Cylinder Mount Bolt	4	M20 - 2.5	340 / (460)	H
Xb	Cylinder Mount Dowel Pin	2	3/4 x 3	--	N

\* Nut requires 1.375" Hex Socket

\*\* M = Medium strength thread lock compound; H = High Strength thread lock compound. Install torques shown here require coating on threads and also, as lubricant, under bolt head or nut, whichever is turned; N = Never-Seez anti seize compound or equivalent.

### 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.
- See inset "Detail B" for Hull Flange Assembly details.
- The Platform Flange with its integrated gussets, hull framing and stringers, are provided by the customer according to the naval architect's specifications.
- Actuator Flange Bolts are provided by the customer according to the thickness of the platform flange. Fasteners should include grade 8 bolts with nuts and flat washers.
- Assembly fasteners illustrated and listed on this page should be installed with indicated coating applied to threads and to head or nut sliding surfaces and torqued to values given.
- Install outboard plane of Weld-in Hull Insert to be flush with outside plane of hull at centerlines through flange. Install Actuator to have outboard end of Seal Housing flush with or slightly extending (0.00" / +0.125") from outboard plane of Weld-in Hull Insert.
- Actuator specifications and dimensions are subject to change without prior notice. Do not use this pring for final installation without contacting the factory for certified dimensions.

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	DRAWN	BK	Parts & Dimensions for Fiberglass Hull Installation All Dimensions are inches unless noted		
	CHECKED	BK	SCALE:	N.T.S.	SHEET:
	ISSUED	12/4/2013			1 OF 1