

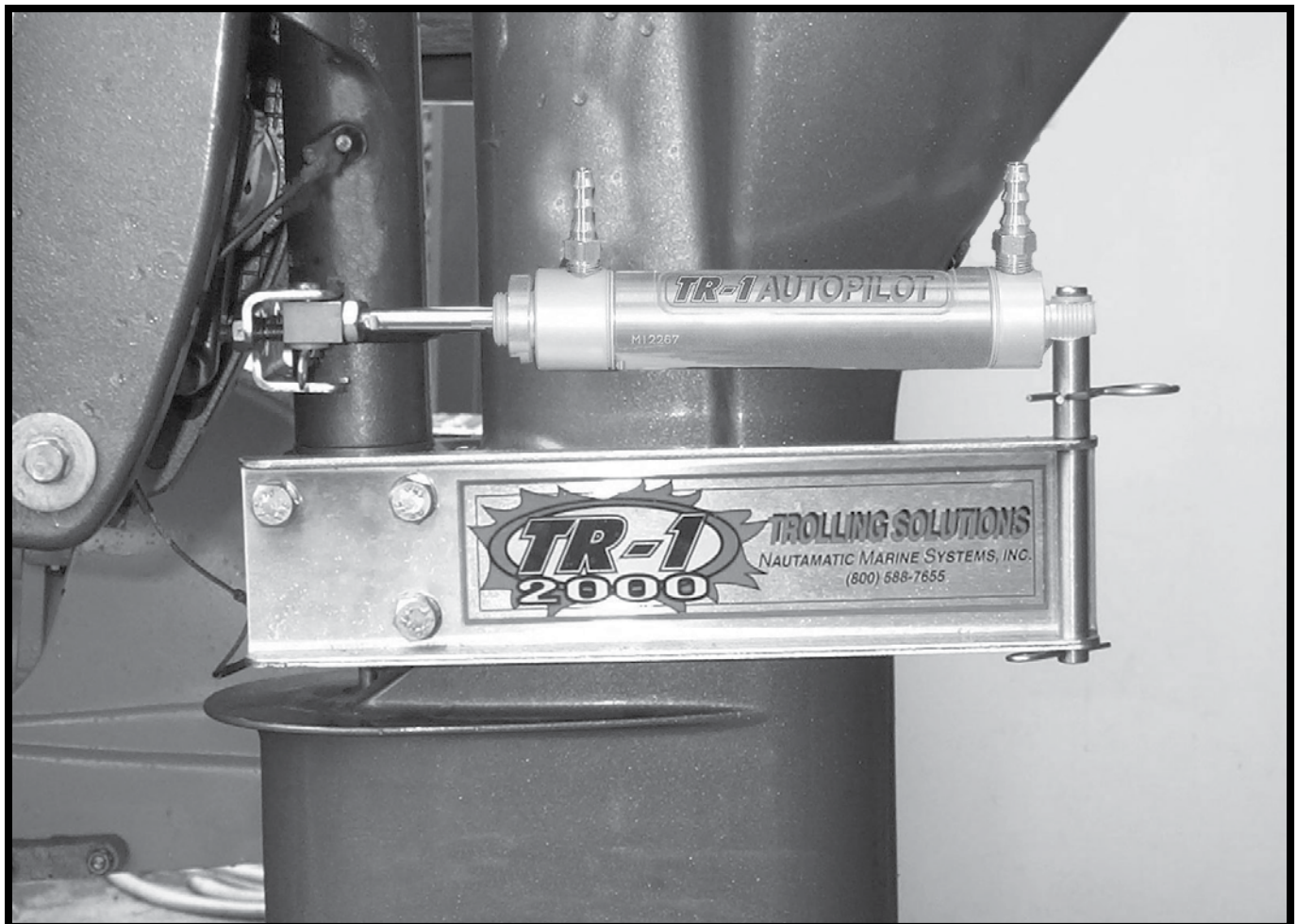
GARMIN™

TR-1 Gold Cylinder and Bracket Mounting Instructions

Yamaha F-15 HP: 1998-2006

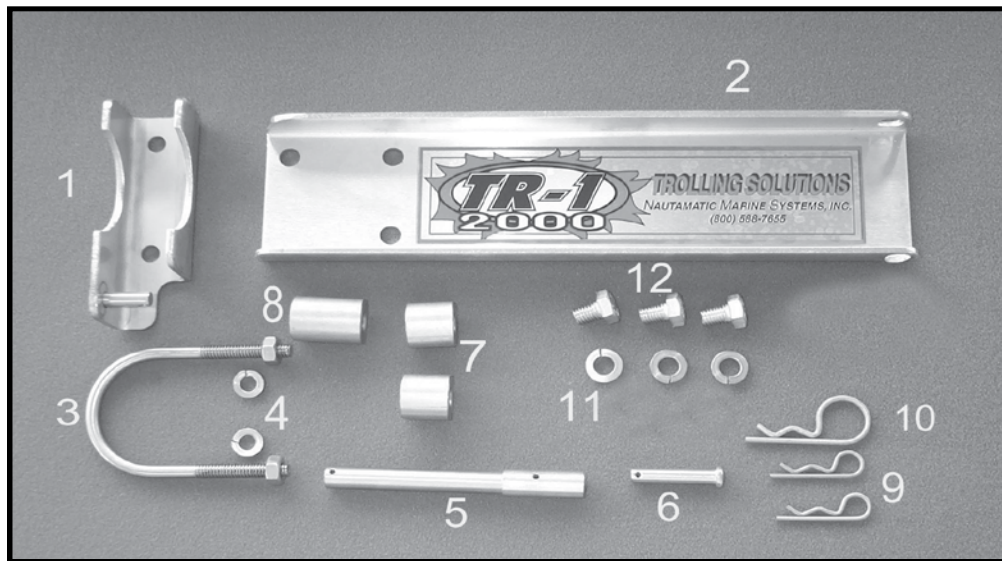
Yamaha F-9.9: 2003 and Newer

Yamaha T-9.9: 2005 - 2007 (Except 2007 Canadian T9.9)

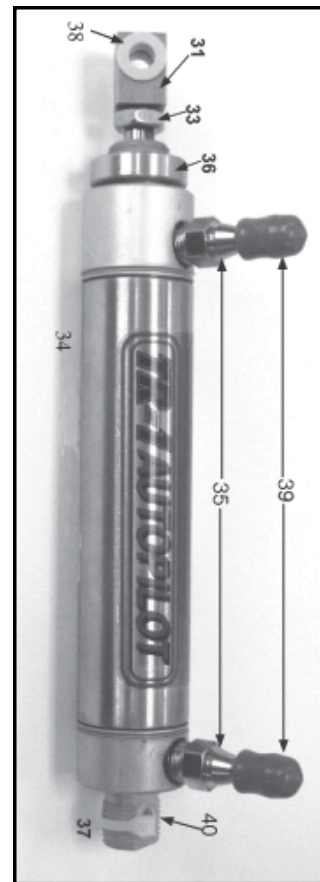


Parts:

Cylinder Kit PN 120-0900-00



Cylinder Mounting Kit PN 120-1080-00



ITEM	PART NUMBER	NAME	QTY.
1	130-1082-00	Bracket, Rod Eye Mounting	1
2	380-1084-00	Channel, Cylinder Mounting	1
3	130-0084-02	"U" Bolt 1 3/4" ID 1/4-20	1
4	310-0076-25	LW, Split 1/4	2
5	330-1013-00	Pin, Stern Pivot	1
6	310-2501-25	Clevis Pin 1/4D X 1/25	1
7	330-1081-02	Standoff, Rear	2
8	330-1081-01	Standoff, Front	1
9	310-0067-02	Hair Pin Cotter Medium	2
10	310-0067-01	Hair Pin Cotter Large	1
11	310-0076-31	LW. Split 8mm	3
12	310-0208-12	Hex Cap M8 X 12mm	3
31	330-1002-00	Rod Eye, 5/16-24	1
33	310-0042-09	Hex Jam Nut 5/16-24 UNF, SS, Thin	1
34	340-0900-00	Cylinder	1
35	321-0001-00	Fitting, Straight 1/8 NPT X 1/4	2
36	330-1101-00	Zinc Anode (Replace)	1
37	310-0040-26	Washer, Flat, Nylon 1/4 ID X .3/8 OD x .03 Thick	1
38	328-0901-00	Bushing 1/4 ID X 5/16 OD X 1/4"L	2
39	320-0001-03	Vinyl Cap 1/4"	2
40	328-0902-00	Cylinder Tail Bushing	1



Figure 1

Step One:

Remove the Three (3) Bolts as shown in Figure 1. (Two Bolts on top and the RT side Bottom). Hang onto them for the next step.

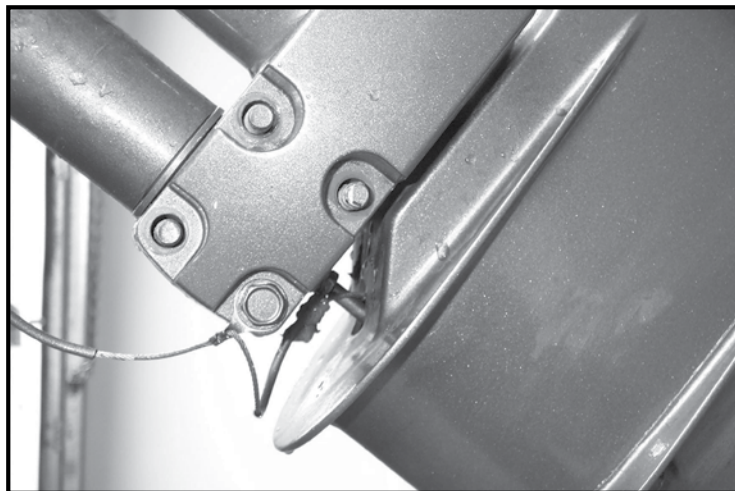


Figure 2

Step Two:

Insert bolts from the starboard side, as shown in Figure 2. Thread the Standoffs onto the Bolts. Item # 8 goes on the front, top threads, Item #7 goes on the back top and bottom. Use a thread locking compound such as Loctite on all bolt threads.

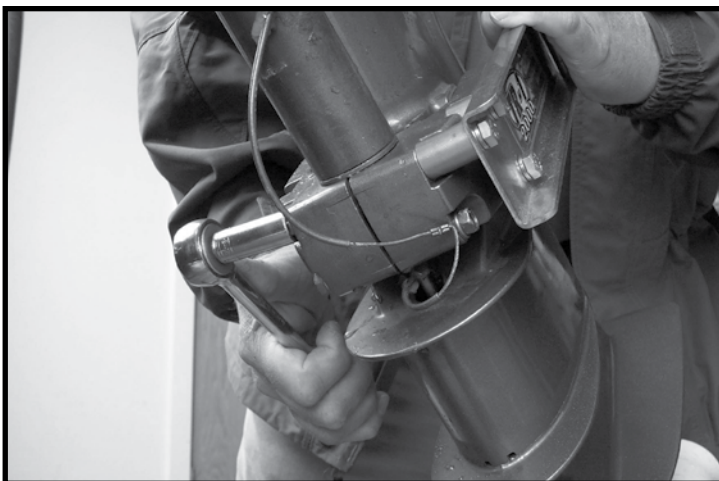


Figure 3

Step Three:

Fasten the Channel (item #2) with the 3 bolts (item #12) into the standoffs. Tighten bolts securely.

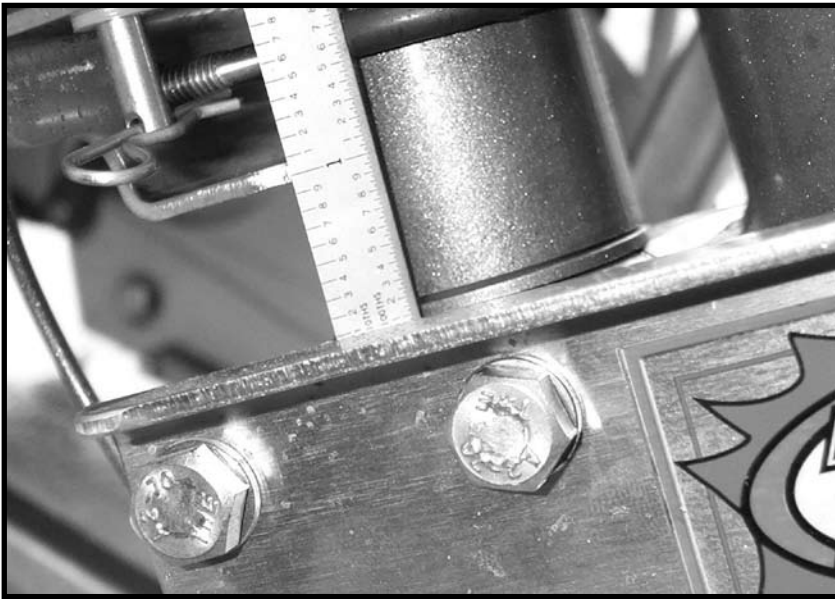


Figure 4

Step Four:

Locate the rod eye bracket (item #1) One (1) inch up on the Shock mount shroud above the cylinder Channel as shown in Figure 4.



Figure 5

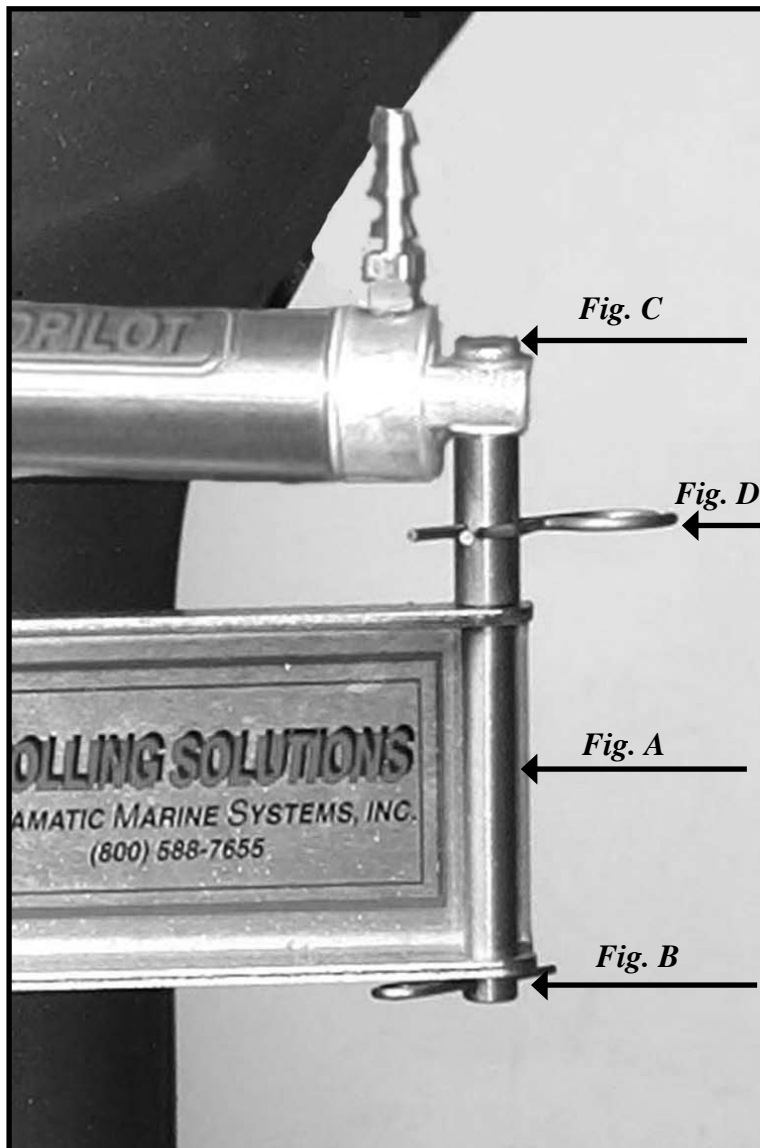
Step Five:

Insert U-Bolt (item # 4) through the Rod eye Bracket, and secure with washers (item # 4) and Nuts. It's recommended to use Loctite or similar compound to secure nuts.

Step Six:

Insert the Stern Pivot Pin through the back eye end of the cylinder, and through the channel. (Fig A). Use a small cotter pin through the hole on the bottom of the stern pivot pin. (Fig B) This will keep the pin from coming back out channel.

Inset the Clevis pin into the top of the Stern pivot pin through the rear eye of cylinder, (Fig. C) and line up the hole in the stern pivot pin and the clevis pin and insert the large cotter pin to hold in place. (Fig. D)





Step Seven:

Attach the Rod eye end of the cylinder to the vertical pin on the Rod eye Bracket, using the plastic washer to take up slack on pin. Insert the cotter pin through the hole in the vertical pin on the rod eye bracket as shown in Picture.

Turn the motor hard over to starboard. That will retract the cylinder rod into the cylinder. Check that the cylinder rod is still free to retract at least a little more. Next turn the motor hard over to port. That will extend the cylinder rod out of the cylinder. Check that the cylinder rod is still free to extend at least a little more. It should have additional travel in both directions. If it does not adjust the position of the rod eye on the cylinder shaft. The cylinder shaft should turn with your fingers, if the Hex Jam Nut is loose. (If the shaft does not turn freely enough, use a thin 1/4 inch open end wrench at the shaft's wrench flats.) **Do not use any tool on the cylindrical part of the cylinder shaft. If the shaft gets scratched, bent, or dinged the seal will fail.** With the cylinder properly adjusted, secure it by tightening the Hex Jam Nut against the Rod Eye. **Be sure to use a Thread locker compound (Loctite or similar) on the threads to prevent the jam nut (item 33) and Rod Eye (item 31) from backing out.**