



**TM 211-212-213 HARDWARE KIT**

**FITS THE FOLLOWING MOTORS**

**MERCURY 8, 9.9 HP 2005 - PRESENT**

**EVINRUDE 9.8 2013 - PRESENT**

**NISSAN/TOHATSU 8, 9.9 HP W/REMOTE THROTTLE 2003-PRESENT**

TrollMaster is a precision throttle control designed to achieve the maximum in trolling speed accuracy. The memory feature included in this control will allow returning to the best fishing speed time and time again. Whether you are pulling your bait or back trolling, TrollMaster is the answer to your speed control needs. Spend your time trolling, not going to the motor to adjust the speed.

CALL:

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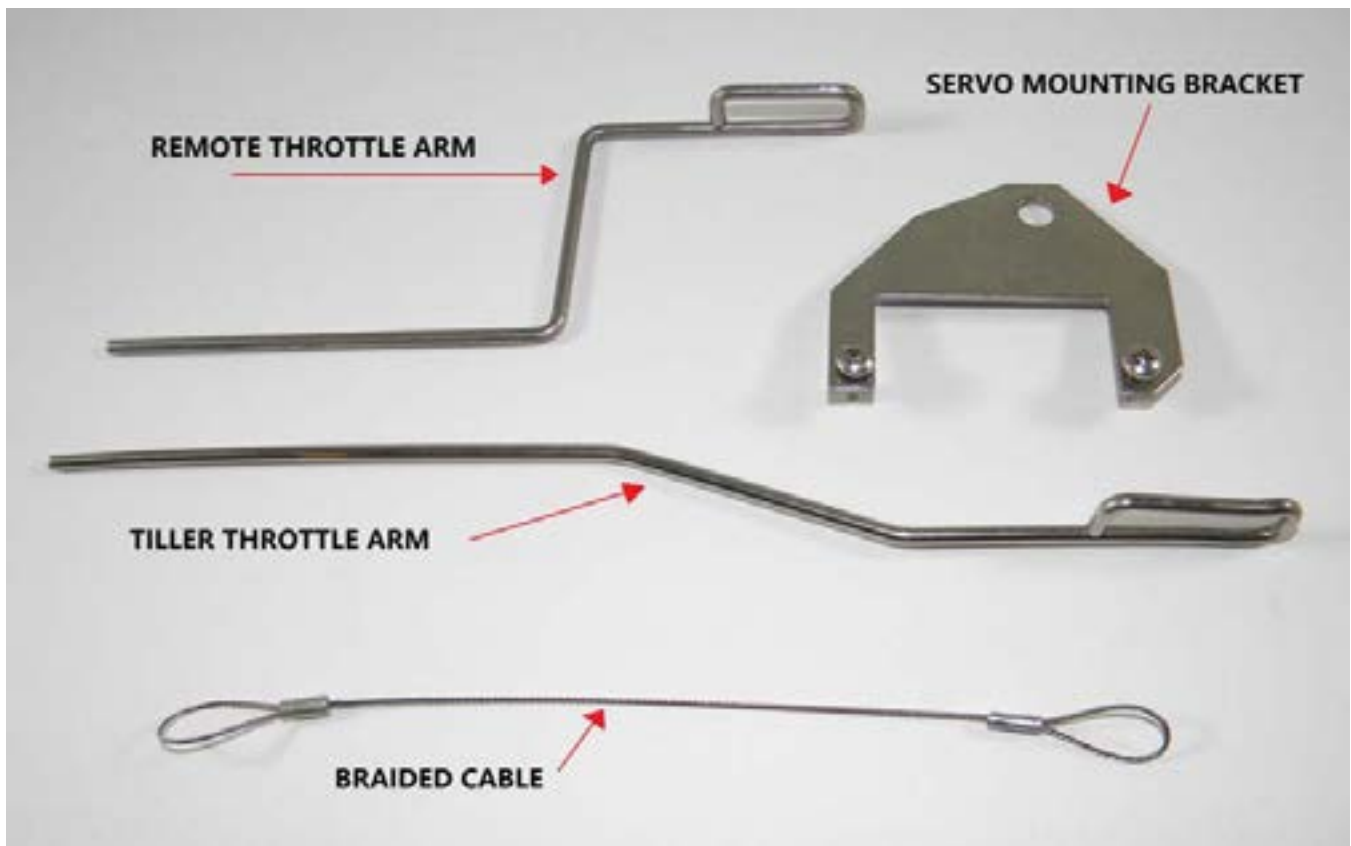


### Tools Required for Installation:

- 10mm wrench
- Slotted screwdriver
- Side cutter pliers
- #2 Phillips head screwdriver
- Pliers



SHOWN HERE ARE THE PARTS INCLUDED IN THE SERVO HARDWARE MOUNTING KIT



**Be sure to completely read all of the install instructions before you begin.**

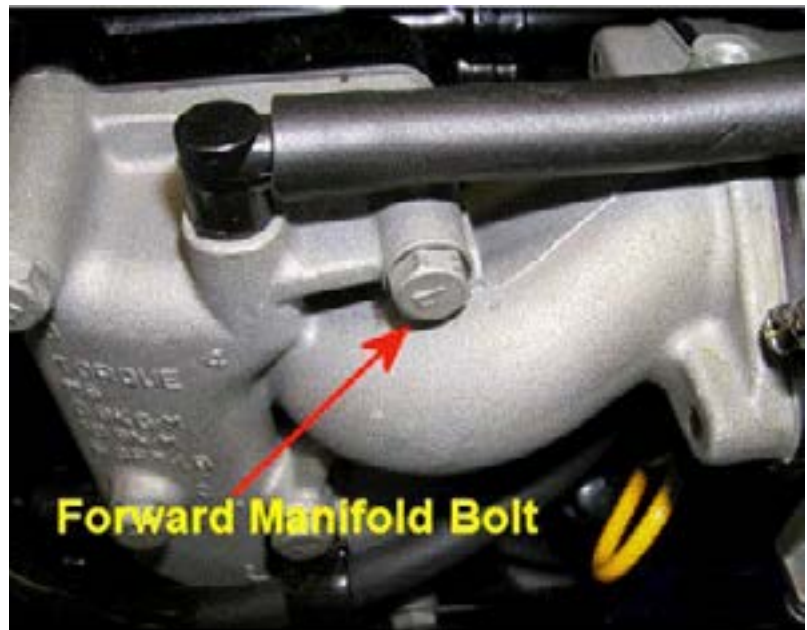


# TROLLMaster™

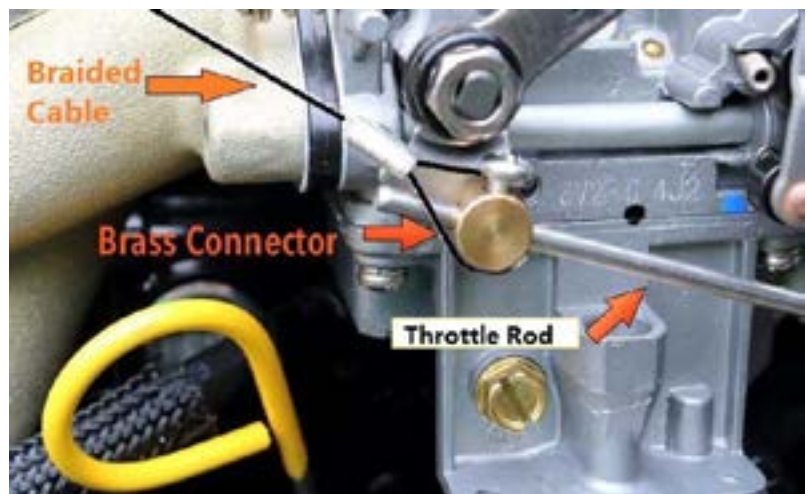
This instruction manual shows the most common motor configuration. You may have a motor that differs somewhat from what is shown in these pictures. Please keep in mind that no matter what the motor looks like the objective is the same—get the servo mounted in a place where it can move freely and can pull on the factory throttle. In some cases it may be necessary to do one or more of the following—

1. Bend servo bracket in or out.
2. Mount the servo on the inside of the servo bracket.
3. Mount the servo bracket rotated 180 degrees.
4. Adjust the throttle rod by bending or pinching to allow proper function

Some Mercury motors have an electronic choke that is positioned right above the manifold. The servo mounting bracket can still be positioned in the same location, one or more of the above suggestions may be necessary

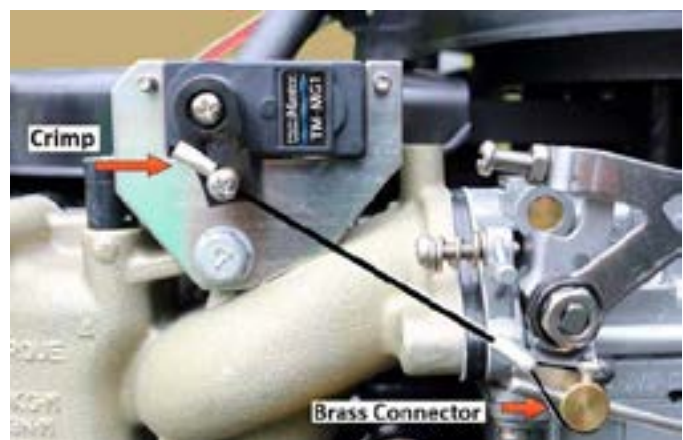


1. Locate and remove the upper forward manifold bolt. The servo bracket will be mounted here.
2. Note the position of the set screw going through the brass connector that holds the factory throttle rod in position. Loosen the set screw and remove the throttle rod.
3. Place the end of the braided cable with the crimped loop over the brass connector and then replace the factory throttle rod with the appropriate TrollMaster throttle rod.



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4. You may need to give the throttle rod loop a pinch with a heavy duty pair of pliers to ensure it is a proper fit.
5. Attach the servo to the servo mounting bracket with the provided screws. You may need to experiment with mounting the servo on the inside or outside of the mounting bracket.. Mounting it on the inside of the bracket will allow for more clearance between the servo arm and the cowling.
6. If your install requires the servo to be mounted behind the servo mounting bracket you should remove the small ridge on each side of the servo to ensure a flush fit.
7. Place the manifold bolt through the hole in the mounting bracket; and tighten it to mount the bracket and servo. Do not connect the braided cable to the servo yet.
8. Connect the power leads from the receiver to your battery and connect the servo to the receiver as well. Power the remote on and leave it in IDLE mode.
9. Set the servo arm by first removing the screw that holds the arm to the servo body. Then pull the servo arm out and move it to the position shown in the lower photo [about the 5 o'clock position]. Replace the screw that holds the arm in place.
10. Remove the crimp from the loose end of the braided cable. Thread the end of the cable through the brass connector on the servo arm. Pull it to remove all slack and tighten the set screw to hold the cable in place. Test for functionality by increasing and decreasing the speed with the remote. There should be about 90 degrees of movement of the servo arm. Once satisfied with the position of the arm and cable, slide the remaining crimp back on the cable and crimp it in place right at the servo arm.





### **Connecting to a power source:**

It is recommended that you install a two-amp fuse on the positive power lead of the PRO and PRO2 models before connecting to a power source. Connect the two amp fused Red wire to +12 volts DC and the Black wire to -12 volts DC. For PRO3 models connect the **RED wire to +12 volts DC** and the **Black wire to -12 volts DC**. PRO3 models come with a thirty (30) amp fuse installed.

### **Connecting the servo:**

Connect the servo cable to the control cable with the brown wire aligned to the white mark on the control cable plug. After the servo is plugged in, move on to set the servo arm.

### **Set the servo arm:**

Power the unit ON and leave the unit in IDLE mode. By removing the Phillips head screw that holds the servo arm on the servo body you can remove the servo arm by pulling it off of the servo body. Adjust the servo arm to be in the position as shown in the installation manual photos and place the servo arm back on the servo body and return the Phillips head screw to its original location to hold the servo arm in place.

### **Testing the controller:**

You do not have to run your outboard motor to test the TrollMaster unit. Test the controller by powering the unit on and press the IDLE button to put the unit into RUN mode. By turning the control knob with a clockwise rotation the servo should move the carburetor from IDLE to FULL THROTTLE.

NOTE: Full throttle can be adjusted by changing the position of the servo arm on the servo motor.



## Troubleshooting:

If you should encounter an issue with your TrollMaster use these tips to determine the best course of action to resolve the issue.

**Problem:** The unit powers on and the display functions properly, your buttons show function on the screen and the numbers increase when turning the speed adjustment knob but there is no response from the servo motor.

**Solution:** Verify the servo motor is plugged in accordingly with the brown wire aligned with the white mark on the control cable plug and test again. If there is still no response, replace the servo motor with a new one and test again. If after replacing the servo motor and testing again there is still no response contact TrollMaster 1.604.940.2010 to have the unit inspected at our facility.

**Problem:** The unit powers on works momentarily then powers off. The unit will not stay powered on.

**Solution:** Check your battery voltage; if the battery voltage is low the unit will not operate properly. When in doubt charge your battery to ensure there is enough voltage to operate the TrollMaster unit to its fullest potential. If the battery is fully charged and the unit is still not operating properly contact TrollMaster 1.604.940.2010 to have the unit inspected at our facility.

If you need assistance with troubleshooting contact us for tech support! Call **1.604.940.2010**





## **TrollMaster Replacement Parts:**

### **TrollMaster Servo Motor (TM-MG1)**

Note: A Servo Arm is included with the purchase of a replacement Servo Motor.

### **TrollMaster Servo Arm (TM-Servo Arm)**

Note: A replacement screw to mount the Servo Arm to the Servo Body is included with the purchase of a replacement Servo Arm.

### **TrollMaster Hardware Kit (TMXXXHRDWRKIT)**

Note: Replace the XXX with the Kit number that applies to your outboard motor. See the Application Guide for kit number. Example: TM206HRDWRKIT.

### **TrollMaster Electronics Unit Only (TMXXXUNITONLY)**

Note: Replace the XXXX with the model of Replacement TrollMaster

Electronics you wish to purchase. Comes with controller and wiring only, does not include servo motor or hardware kit. Examples: TMPROUNITONLY, TMPRO2UNITONLY, TMPRO3UNITONLY.

## **To Order Replacement Parts:**

If you would like to order any of the above mentioned replacement parts check with your local retailer, if they do not have the item in stock they can order it for you or you can order from us directly. For pricing and availability call **1.604.940.2010**

## **Installation Guides:**

The installation Guide on this disk can also be found online at [trollmasters.com/installation-guides](http://trollmasters.com/installation-guides) where you will find the Installation Guides for every motor we make a kit to fit. The Application Guide is also on the same web page; the Application Guide shows the full list of motors we make kits to fit with the product part numbers for those kits.



## **SERVICE AND WARRANTY**

Should your unit ever require service please *do not return the product to your dealer.*

Instead call the number below for special instructions on shipping and handling. Be sure to call between 9 00 AM and 5.00 PM (Pacific Time) Monday through Friday. If the service required is covered by the warranty, it will be repaired or replaced as described below. If the service required is NOT covered by warranty replacement parts are available for purchase and paid for by a major credit card.

The warranty coverage on this equipment is limited to the terms set forth below:

CMP Group LTD. warrants this product to be free of defects in material and workmanship for a period of ONE (1) YEAR from the date of original retail purchase. Positive proof of date of purchase is required for warranty service. If the service required is covered by warranty, you must obtain a **Return Authorization number** from CMP Group . The unit will be repaired or replaced with new or factory rebuilt parts at no charge. The defective components must be returned to the address specified, with shipping charges prepaid. Be sure to include your name, address, telephone number and a copy of the sales receipt showing the date of original retail purchase. All sales receipts are subject to verification.

This warranty does not apply if the unit has been damaged by accident, abuse, misuse, poor installation or misapplication, or if it has been modified from its original condition, or if any serial number has been removed or defaced or altered. This warranty does not cover any expense to remove or reinstall the unit or any of its components. If a returned unit is not covered by warranty, the sender will be notified and given an estimate of the charges to repair or replace the unit together with the return shipping charges.

THIS WARRANTY DOES NOT COVER SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO DAMAGE TO OR REPLACEMENT OF OTHER EQUIPMENT AND PROPERTY. THE WARRANTY AND REMEDIES SET FORTH ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. DUE TO THE SPECIAL AND UNIQUE CONDITIONS THAT MAY EXIST IN EACH APPLICATION, THE MANUFACTURER SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO DEALER, AGENT OR EMPLOYEE IS AUTHORIZED TO MAKE ANY MODIFICATION, EXTENSION OR ADDITION TO THIS WARRANTY.

Some states do not allow exclusion of incidental or consequential damages, so the above exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other legal rights, which may vary from state to state.

**FOR SERVICE CALL: 1.604.940.2010**

