



## Steering Connector Kit, P/N 5009794

### SAFETY INFORMATION

The following symbols and/or signal words may be used in this document:

#### **DANGER**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

#### **WARNING**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury

#### **CAUTION**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

#### **NOTICE**

Indicates an instruction which, if not followed, could severely damage engine components or other property.

These safety alert signal words mean:

ATTENTION!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

For safety reasons, this kit must be installed by an authorized *Evinrude*<sup>®</sup> dealer. This instruction sheet is not a substitute for work experience. Additional helpful information may be found in other service literature.

DO NOT perform any work until you have read and understood these instructions completely.

Pay strict attention to torque wrench tightening specifications.

Should removal of any locking fastener (lock tabs, locknuts, or patch screws) be required, always replace with a new one.

When replacement parts are required, use *Evinrude Genuine Parts* or parts with equivalent characteristics, including type, strength and material. Use of substandard parts could result in injury or product malfunction.

Always wear EYE PROTECTION AND APPROPRIATE GLOVES when using power tools.

Unless otherwise specified, engine must be OFF (not running) when performing this work.

Always be aware of parts that can move, such as flywheels, propellers, etc.

Some components may be HOT. Always wait for engine to cool down before performing work.

If you use procedures or service tools that are not recommended in this instruction sheet, YOU ALONE must decide if your actions might injure people or damage the outboard.

This instruction sheet may be translated into other languages. In the event of any discrepancy, the English version shall prevail.

**TO THE INSTALLER:** Give this sheet and the operating instructions to the owner. Advise the owner of any special operation or maintenance information contained in the instructions.

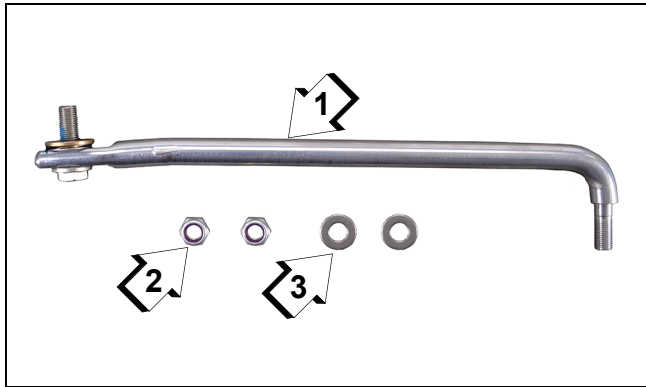
**TO THE OWNER:** Save these instructions in your owner's kit. This sheet contains information important for the use and maintenance of your engine.



# Instruction Sheet Revision Information

Revision Letter	Purpose / Changes	Date
Original	Replaces Instruction Sheet, P/N 350125	Sept. 15, 2015

## Kit Contents



Ref	P/N	Description	Qty
1	-	STEERING ROD ASSEMBLY	1
2	315077	NUT, Lock	2
3	319459	WASHER	2

All mechanical steering cables should meet the current American Boat and Yacht Council safety standard (P-17).

### Application

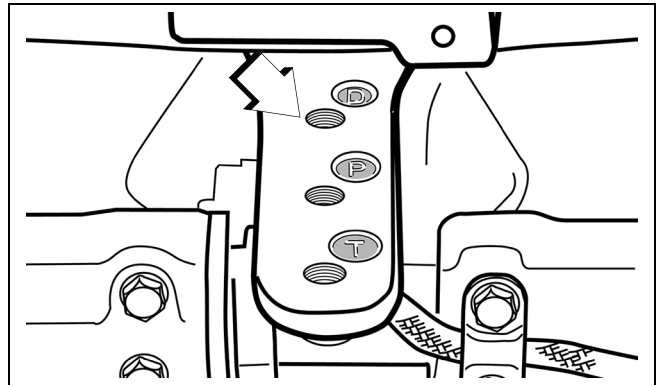
*Evinrude E-TEC* 3-cylinder, V4 and V6, and earlier outboards with the *FasTrak* midsection.

The *FasTrak* midsection can be identified by the six trim limiter rod holes in the stern brackets and the three threaded holes in the steering arm.



Trim Limiter Rod Holes

007178A



Threaded Holes in Steering Arm

DRC7162

### Procedure

#### NOTICE

**Improper installation of the steering cable will cause opposite direction in steering.**

Before starting installation of this kit, check direction of the boat's mechanical steering:

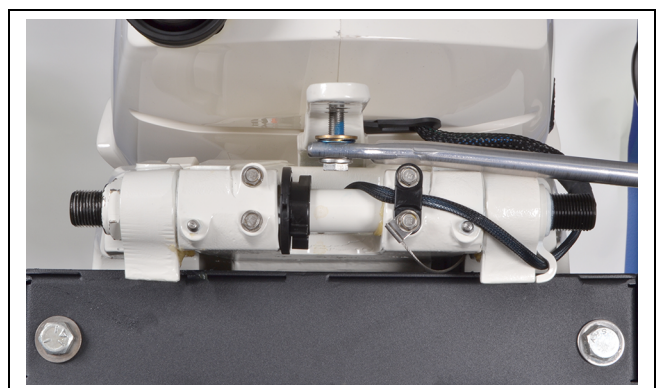
- Turn the steering wheel to starboard. As the steering wheel is turned, the steering ram should extend.

The following tools are needed to complete this procedure:

- Torque Wrench Extension, P/N 912031
- 3/8 in. Drive N·m (Ft. Lb.) Torque Wrench
- 3/8 in. Drive Ratchet
- 9/16 in. Socket
- 9/16 in. Open End Wrench
- Crowsfoot Wrench (to fit steering cable)

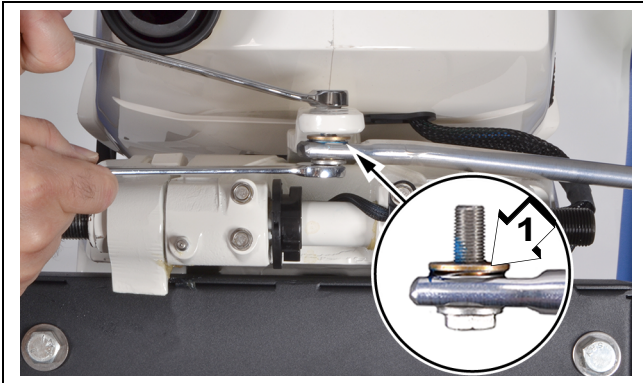
### Steering Connector Installation

Thread steering connector rod screw into the rear hole of the steering arm.



009606

Begin threading locknut onto the screw as soon as enough thread is exposed above steering arm.



1. Pivot nut

009607

Tighten the steering connector rod screw until pivot nut is in solid contact with underside of steering arm. Tighten steering connector rod screw an additional 1/6 turn.

Use a 9/16" wrench, to hold the steering arm screw while torquing the locknut. Install Torque Wrench Extension, P/N 912031, at a 90° angle to the torque wrench in order to achieve correct tightening torque. Tighten the locknut to a torque of 18 to 21 ft. lbs. (25 to 28 N·m).

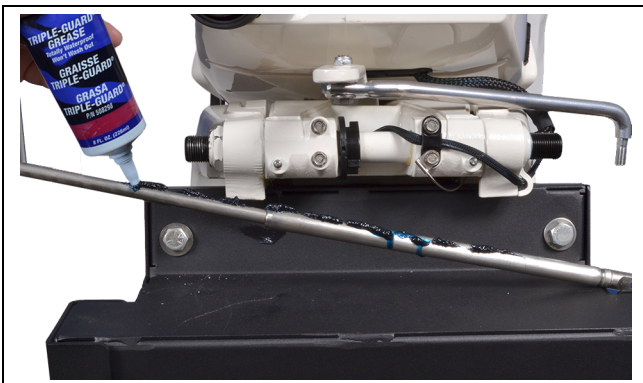


1. Torque Wrench Extension, P/N 912031

009608

### Steering Cable Installation

Turn steering wheel to extend steering ram to maximum extension. Apply *Triple Guard Grease* to all of the exposed steering ram.



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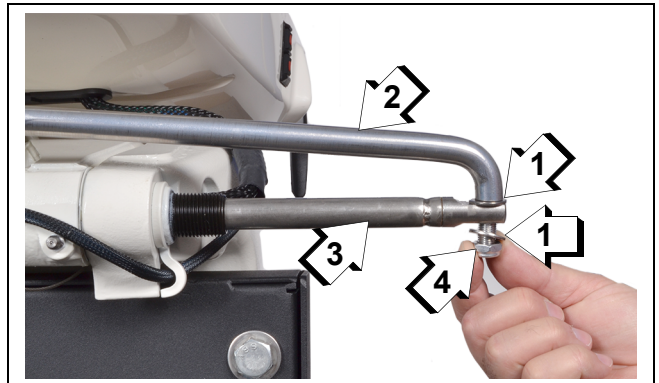
Press steering cable jacket fitting against tilt tube and thread steering cable anchor nut onto tilt tube. Tighten anchor nut to cable manufacturer's recommended torque.



009610

Install a flat washer onto the steering rod then attach the steering rod to the steering cable ram.

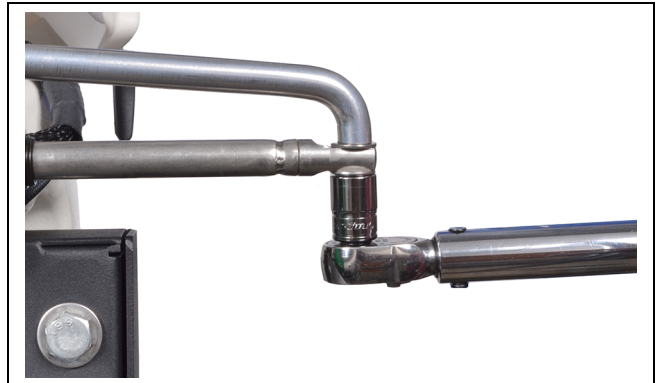
Install flat washer and locknut onto steering rod.



1. Flat washers
2. Steering rod
3. Steering ram
4. Lock nut

009611

Tighten locknut to a torque of 7 to 8 ft. lbs. (8 to 11 N·m) and then loosen nut 1/8 turn.



009612

## Post-Installation Checks

### **WARNING**

**Failure to perform checks could result in the steering system becoming jammed or severed should the outboard strike an underwater object. This could cause the outboard to rapidly tilt into the boat.**

After installation and adjustments are completed, check for possible interference between steering system parts and any portion of outboard, boat, or accessories.

Turn outboard fully from side to side in both the running and full tilt positions. Correct any interference issues before returning the boat to service.

## Steering System Maintenance

### **WARNING**

**Failure to grease as recommended could result in corrosion of the steering system.**

**Corrosion can effect steering effort:**

- **making operator control difficult.**
- **resulting in steering malfunction and possible injury to the operator and/or passengers.**

After the engine is put into use, periodic greasing with *Triple Guard* Grease is required per the chart below.

Use	Frequency
Fresh Water	Annually
Salt Water	Every 90 days
Storage (30 days or longer)	Before placing into storage

If you remove the outboard from the boat, save the special locking type screws and nuts used to fasten the steering system to the outboard.

When reattaching, use only the original fasteners and tighten carefully to the torque specification given in the Instructions. If the fasteners are lost or in poor condition, see your dealer for new fasteners.

Replace any locking type fastener (example: lock nut or patch screw) if the locking feature becomes weak.

Definite resistance to tightening must be felt or locking fastener is not suitable for continued use.

Replace only with authorized replacement part or equivalent.

If you raise or lower your outboard on the boat's transom perform the Post-installation Checks.

When replacement parts are required, use genuine *Evinrude* parts or parts with equivalent characteristics including type, strength, and material.