



CRANKSHAFT POSITION SENSOR BRACE KIT 5005450 INSTALLATION INSTRUCTIONS FOR EVINRUDE 90° MODELS

For safety reasons, this kit must be installed by an authorized *Evinrude/Johnson* dealer. These installation instructions contain information that can help prevent personal injury and damage to equipment. Understand the following symbols before proceeding:

| | | |
|---|---------------|--|
| | DANGER | |
| Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury. | | |

| | | |
|---|----------------|--|
| | WARNING | |
| Indicates a potentially hazardous situation which, if not avoided, CAN result in severe injury or death. | | |

| | | |
|--|----------------|--|
| | CAUTION | |
| Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate personal injury or property damage. It also may be used to alert against unsafe practices. | | |

TO THE OWNER

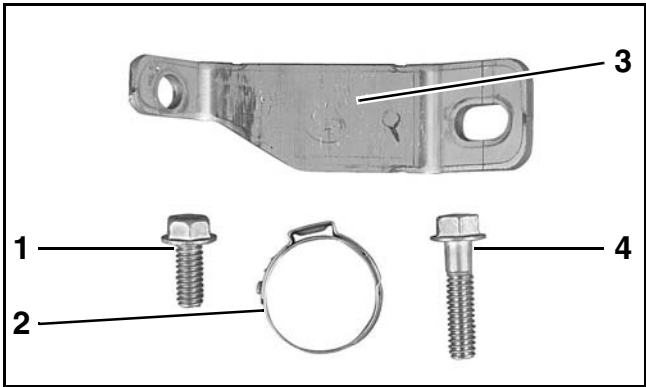
The assembly procedures outlined in this sheet should be performed by a skilled technician. If you have questions, see your DEALER. Save these instructions in your owner's kit. This sheet contains information important to the future use and maintenance of your engine.

TO THE INSTALLER

Give this sheet to the owner. Advise the owner of any special operation or maintenance information contained in the instructions. This kit is designed for specific applicable models only. It is not recommended for units other than those for which it was sold.



CONTENTS OF KIT



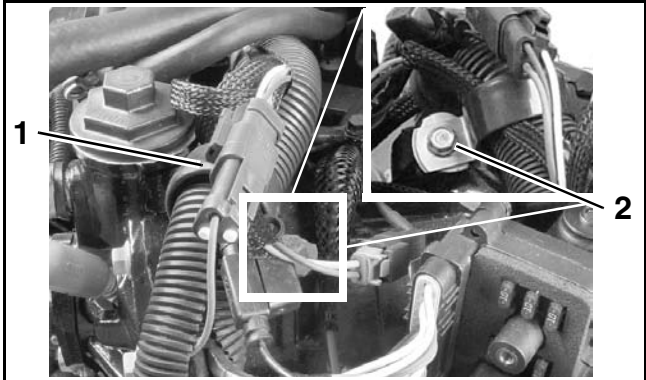
| Ref | P/N | Name of Part | Qty |
|-----|--------|----------------------------|-----|
| 1 | 329217 | SCREW, 5/8 in. (15.9 mm) | 1 |
| 2 | 346152 | CLAMP, 1 in. (25.6 mm) | 1 |
| 3 | 350936 | BRACE | 1 |
| 4 | 324334 | SCREW, 1 1/8 in. (28.6 mm) | 1 |

INSTALLATION

WARNING

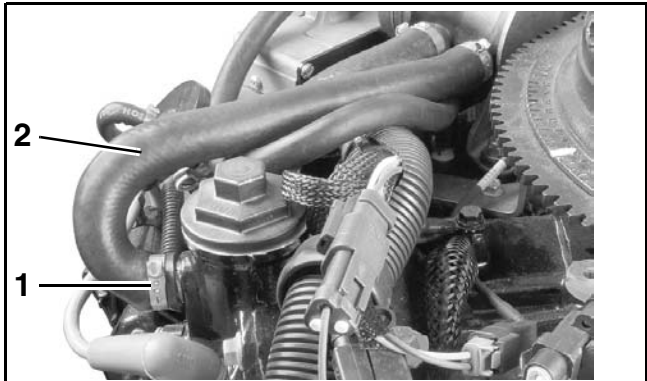
To prevent accidental starting while servicing, disconnect battery cables at the battery.

IMPORTANT: Clear access to the CPS mounting bracket is required to properly install the CPS brace. DO NOT attempt to force hose and wire routings aside to access CPS mounting bracket screws. Doing so will stress or damage hoses and wiring. Follow the steps in this procedure explicitly. Remove starboard main wire harness loop clamp screw.



1. Loop clamp
2. Screw

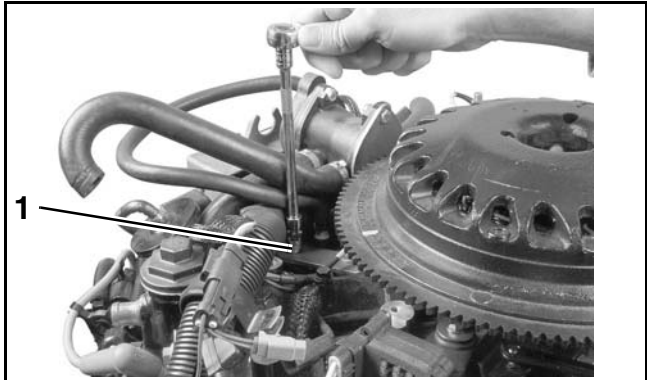
Remove *Oetiker*[†] clamp on water supply hose from starboard cylinder head to pressure valve. Remove hose from fitting.



1. Oetiker clamp
2. Water supply hose to pressure valve

Pull back water supply hose and wire harness to access the outer CPS mounting bracket screw. Remove the **outer** CPS mounting bracket screw.

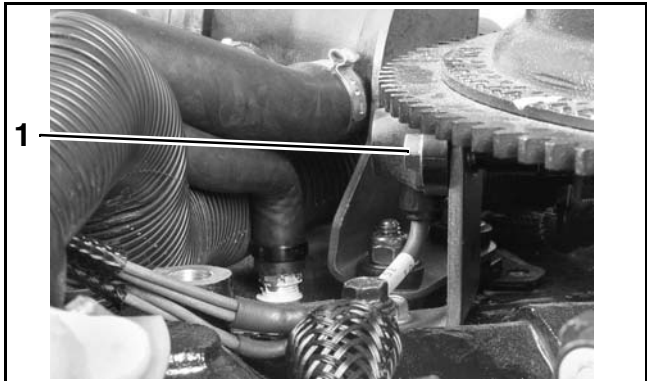
IMPORTANT: DO NOT remove the inner CPS mounting bracket screw.



1. Outer CPS mounting bracket screw

Remove CPS mounting screw.

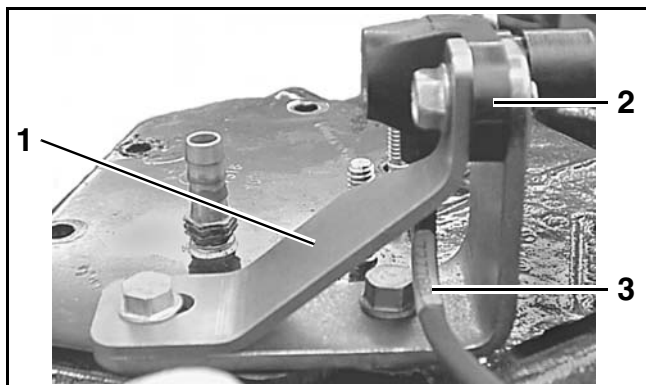
IMPORTANT: DO NOT remove the CPS. Leave in position.



1. CPS mounting screw

Place CPS brace with tapered end facing up, **overlapping** CPS mounting tab.

IMPORTANT: CPS wire must remain routed as is, under the newly installed CPS brace.



1. CPS brace
2. CPS mounting tab
3. CPS wire

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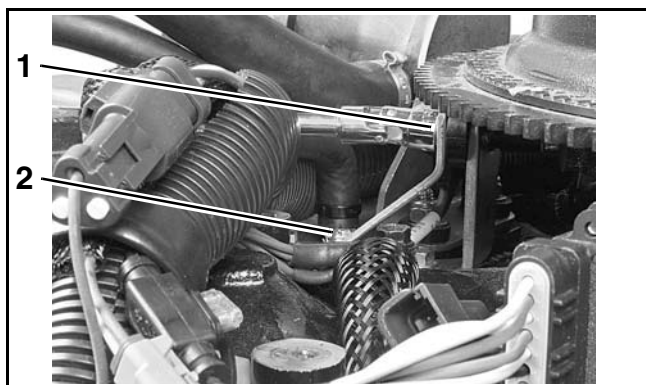
Reinstall starboard main wire harness loop clamp. Reconnect water supply hose and fasten with supplied *Oetiker* clamp.



1. Main wire harness loop clamp
2. Oetiker clamp
3. CPS brace

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Apply *Blue Nut Lock™* to screws supplied in CPS brace kit. Install 1 1/8 in. (28.6 mm) screw finger tight in lower hole of CPS brace **first**. Install 5/8 in. (15.9 mm) screw in upper hole of CPS brace and torque to 60 to 84 in. lbs. (6.8 to 9.5 N·m). Complete the torque on 1 1/8 screw to 60 to 84 in. lbs. (6.8 to 9.5 N·m).



1. Screw – 5/8 (15.9 mm)
2. Screw – 1 1/8 in. (28.6 mm)

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