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# SMARTCRAFT STEERING SENSOR KITS

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## Models Covered

### 863188A3

| Model   | Serial Number or Year |
|---|-----------------------|
| 8.1 liter (496 cid) engines   | 0M000000 - 0M640000   |
| 4.3 liter (262 cid), 5.0 liter (305 cid), 5.7 liter (350 cid),<br>6.2 liter (377 cid) MPI engines | 0M300000 - 0M640000   |

### 863188A5

| Model   | Serial Number or Year |
|---|-----------------------|
| 8.1 liter (496 cid) engines   | 0M000000 and Above    |
| 4.3 liter (262 cid), 5.0 liter (305 cid), 5.7 liter (350 cid),<br>6.2 liter (377 cid) MPI engines | 0M300000 and Above    |


### 865424A01

| Model   | Serial Number or Year |
|---|-----------------------|
| 8.1 liter (496 cid) engines   | 0M640000 and Above    |
| 4.3 liter (262 cid), 5.0 liter (305 cid), 5.7 liter (350 cid),<br>6.2 liter (377 cid) MPI engines | 0M640000 and Above    |

## Notice

| NOTICE  |
|---|
| After completing installation, these instructions should be placed with the product for the owner's future use. |

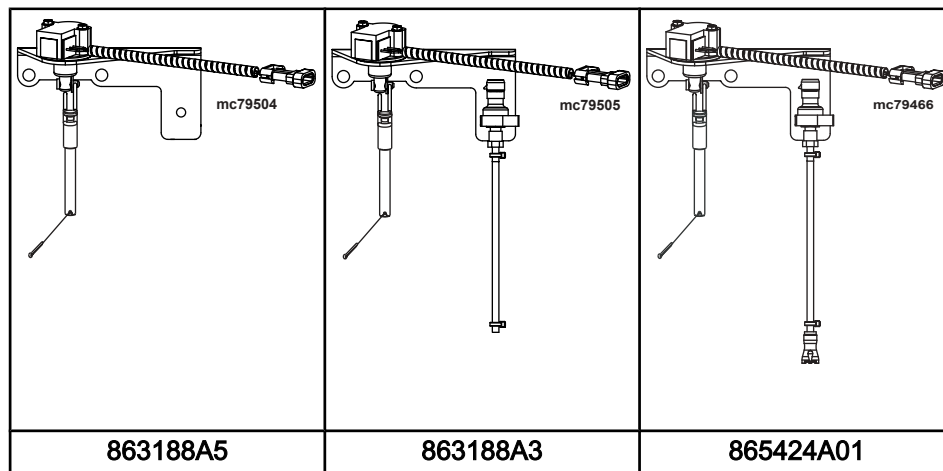
## Lubricants \ Sealants \ Adhesives

| Tube Ref. No.  | Description           | Where Used |
|--|-----------------------|------------|
|  34 | Special Lubricant 101 | Clevis pin |

## Torque Specifications

| Description        | Nm | lb-in. | lb-ft. |
|--------------------|----|--------|--------|
| Transom plate nuts | 34 |        | 25     |

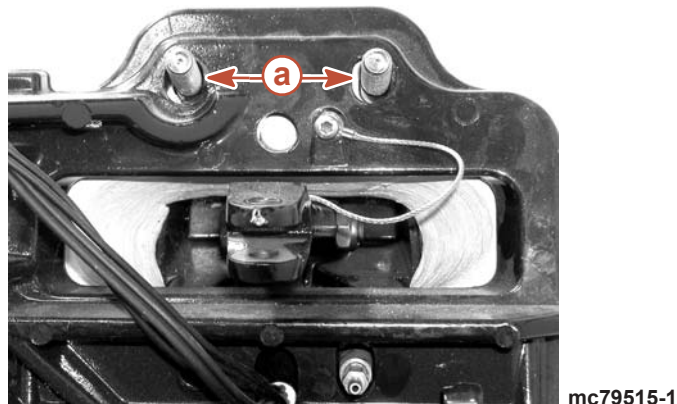
## Steering Sensor Assembly Identification



863188A5 is a steering sensor only kit for Smartcraft compatible engines, the harness assembly included in this kit is 18 ft (5.5 m) long. 863188A3 is a steering sensor and pitot sensor kit for Smartcraft compatible engines prior to serial number 0M640000. 866424A01 is a steering sensor and pitot sensor kit for Smartcraft compatible engines with a serial number 0M640000 and Above; a quick connect fitting is incorporated on the transom for the pitot sensor.

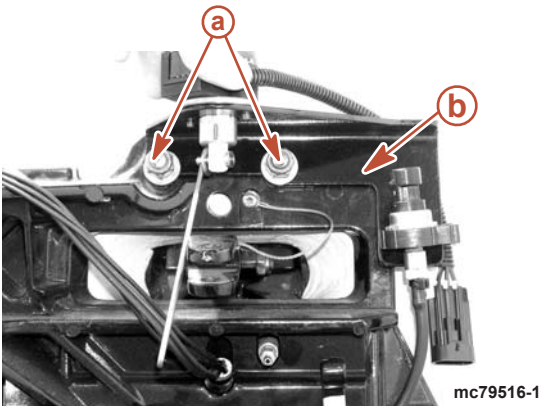
## Installing The Steering Sensor Assembly To the Transom

1. Remove the nuts and washers from the topmost position on the transom plate.



- a -** Top studs
2. Install the steering sensor assembly onto the studs.
  3. Install the washers and nuts onto the studs.

- 4. Torque the nuts.

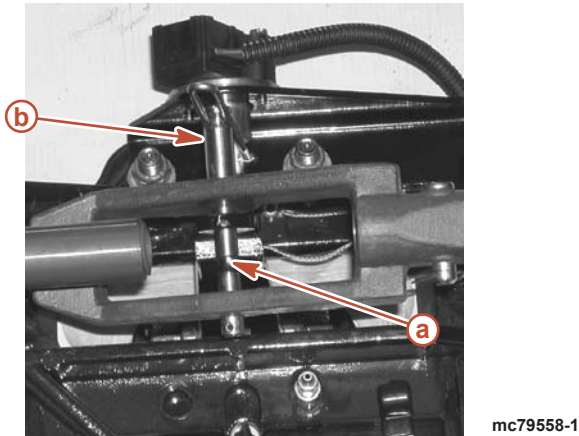


**a -** Washers and nuts

| Description        | Nm | lb-in. | lb-ft. |
|--------------------|----|--------|--------|
| Transom plate nuts | 34 |        | 25     |

Installing the Steering Sensor To the Steering Lever


- 1. Connect the clevis pin to the steering lever.
- 2. Secure the clevis pin with a cotter pin.



**a -** Cotter pin

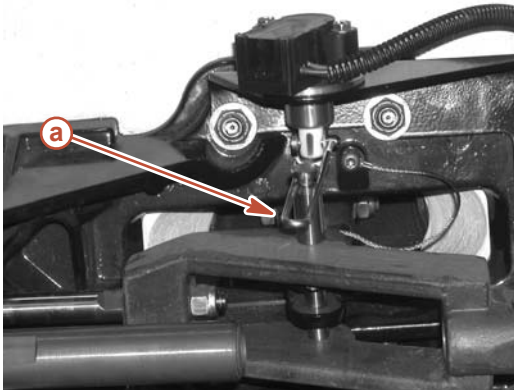
**b -** Clevis pin

- 3. Spread both ends of the cotter pin.
- 4. Lubricate the clevis pin.

| Tube Ref. No.  | Description           | Where Used |
|--|-----------------------|------------|
|  34 | Special Lubricant 101 | Clevis pin |

**IMPORTANT:** Ensure that both sides of the steering sensor guide contact the sides of the groove on the clevis pin.

5. Install the steering sensor guide over the top groove on the clevis pin.



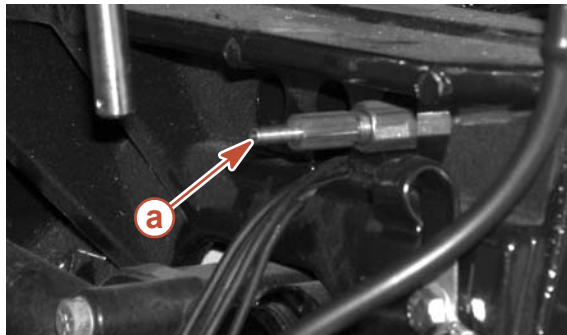
mc79559-1

**a -** Steering sensor guide

## Installing the Pitot Sensor

**IMPORTANT:** The pitot hose must not come into contact with the steering system components or the engine coupler.

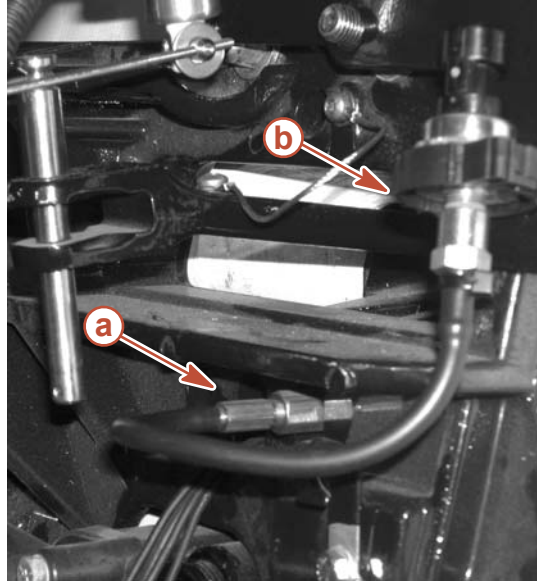
1. For 883188A5:
  - a. Install the barb fitting into the pitot fitting on the transom.



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**a -** Barb fitting

- b. Connect the pitot hose to the barb fitting on the transom.



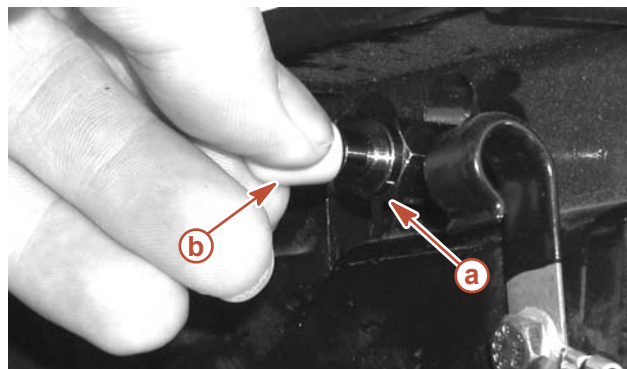
**a -** Barb fitting

**b -** Pitot sensor

- c. Secure the hose with a tiesrap.

2. For 865424A01:

- a. Remove the yellow cap from the quick connect fitting at the transom.

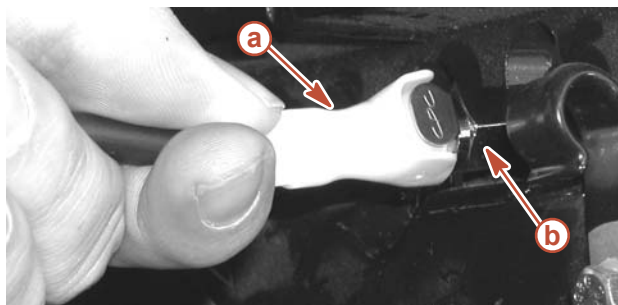


**a -** Male quick connect fitting

**b -** Yellow plug

**IMPORTANT:** Ensure that the fittings snap into place.

- b. Connect the quick connect pitot hose to the fitting on the transom.

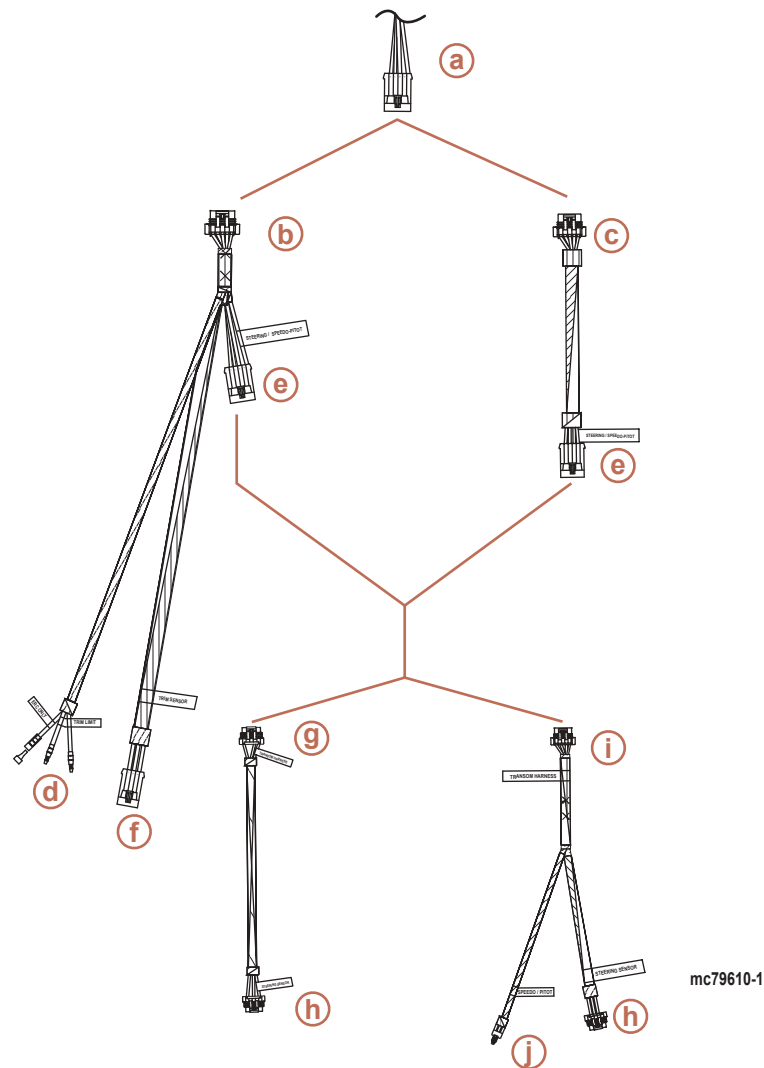


**a -** Female quick connect fitting

**b -** Male quick connect fitting

## Steering \ Speedometer Harness Diagrams

There are 2 different transom harnesses for Smartcraft compatible engines. 8.1 liter (496 cid) engines use transom harness, part number 84-863739A1. All other Smartcraft compatible engines use transom harness, part number 84-863931A1.



- |  |  |
|--|--|
| <b>a-</b> Transom connection on the engine harness   | <b>f-</b> Trim sensor connection   |
| <b>b-</b> 8.1 liter (496 cid) transom harness  | <b>g-</b> Steering sensor only harness (Part number 84-864219)           |
| <b>c-</b> 4.3 liter (262 cid), 5.0 liter (305 cid), 5.7 liter (350 cid), 6.2 liter (377 cid) transom harness | <b>h-</b> To the steering sensor assembly                                |
| <b>d-</b> Trim limit connections   | <b>i-</b> Steering sensor / Speedo-Pitot harness (Part number 84-863736) |
| <b>e-</b> Steering / Speedo- Pitot connections   | <b>j-</b> To the speedo-pitot sensor                                     |

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