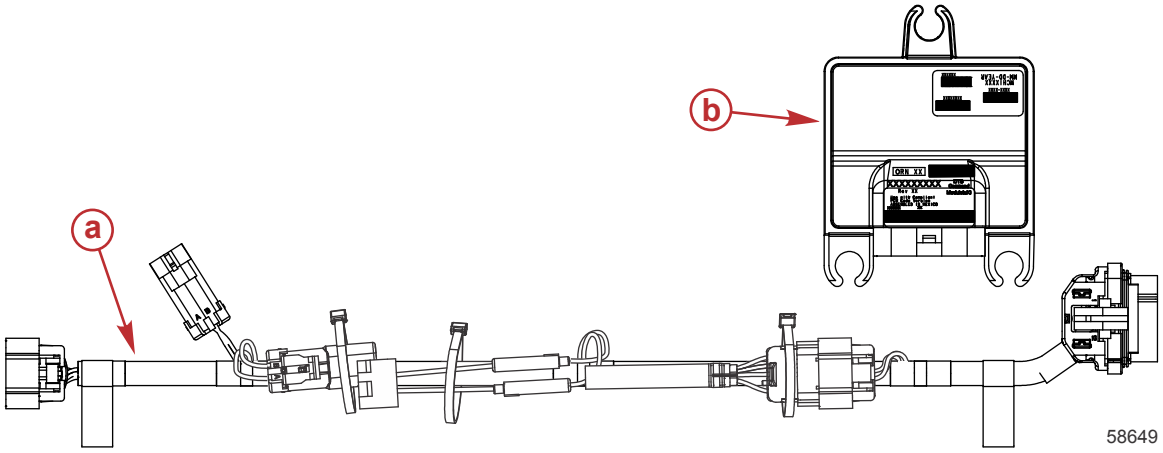
MECHANICAL SMART TOW® KIT

IMPORTANT: This document guides our dealers, boatbuilders, and company service personnel in the proper installation or service of our products. If you have not been trained in the recommended servicing or installation procedures for these or similar Mercury Marine products, have the work performed by an authorized Mercury Marine dealer technician. Improper installation or servicing of the Mercury product could result in damage to the product or personal injury to those installing or operating the product. Always refer to the appropriate Mercury Marine service manual for component removal and installation instructions.

NOTE: After completing installation, place these instructions with the product for the owner's future use.

Components Contained in Kit



Ref.	Qty.	Description
a	1	Smart Tow® command module harness
b	1	Command module

Required Components Not Contained in Kit

Qty.	Description	Part Number
1	CAN X extension harness, available in 3.0 m (10 ft), 4.6 m (15 ft), 6.1 m (20 ft), 7.6 m (25 ft), and 9.1 m (30 ft) lengths	Refer to parts catalog
1	Cruise/Smart Tow® capable gauge: SC1000 Smart Tow® Tach/Speed, SC1000 System Monitor, or VesselView	Refer to parts catalog
1	Junction box	Refer to parts catalog

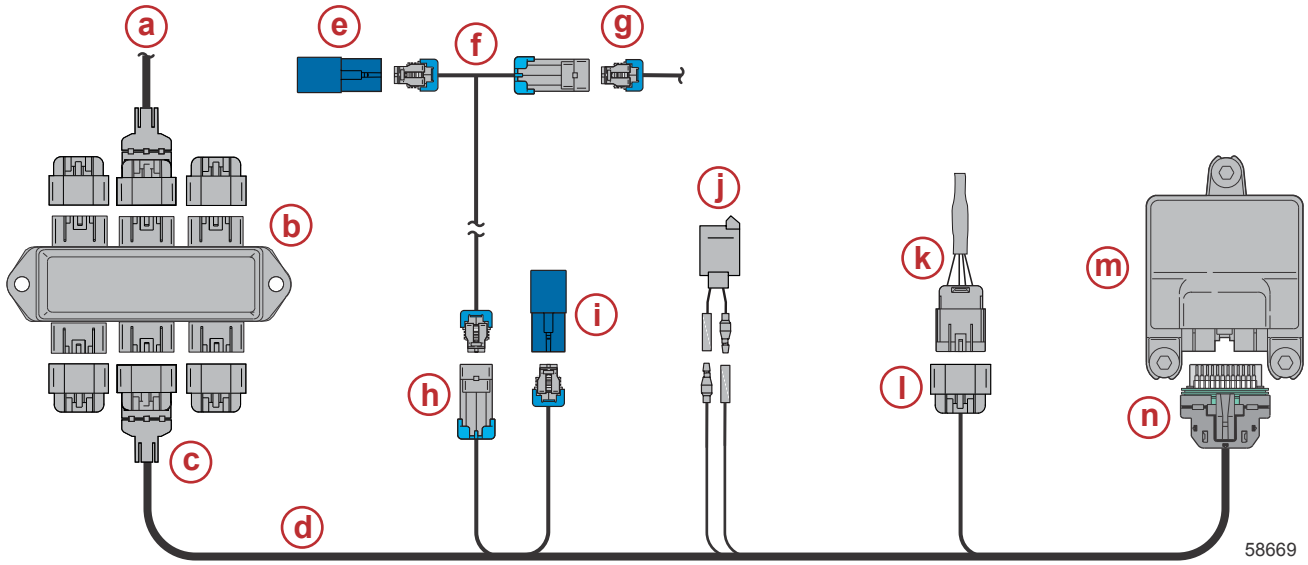
Smart Tow® Command Module Harness Installation

1. Connect the Smart Tow® command module harness to an existing J-box at the helm. If a J-box is not available, purchase and install a new one:
   a. Locate the J-box appropriately:
      - Confirm that all applicable wiring reaches the mounting location.
      - Mount the junction box in a location that minimizes exposure to moisture.
      - Mount the junction box so the connectors are horizontal.
      - Mount the junction box in a location that is accessible for service.
   b. Securely attach the junction box using the screw holes provided and fasteners appropriate to the vessel's construction.
   c. Connect the existing helm harness to the J-box.
   d. Connect the Smart Tow® command module harness to the J-box.
   e. Protect all unused connectors with weather caps.
2. Connect the separately purchased CAN X extension harness:

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a. Connect one end of the extension harness to the CAN X connector on the Smart Tow® command module harness.
b. Route the extension harness to the engine.
c. Remove the 2-pin terminator from the engine CAN X connector and attach it to the connector on the extension harness.
d. Connect the extension harness to the CAN X connector on the engine.

3. Ensure that the CAN X terminator is present and the connection is secure.
4. Ensure that the resistor pack is present and securely inserted into the Lever 1 connector.
5. Route the harness to the location selected for the command module. Refer to **Command Module Installation**.



a - J-box connector on vessel's mechanical helm harness
b - J-box (not included in the kit; purchase separately)
c - J-box connector
d - Smart Tow® command module harness
e - CAN X terminator (move from engine CAN X connector)
f - CAN X extension harness (not included in the kit; purchase separately)
g - Engine CAN X connector
h - CAN X connector
i - CAN X terminator
j - Horn
k - Resistor pack
l - Lever 1 connector
m - Command module
n - Command module connector

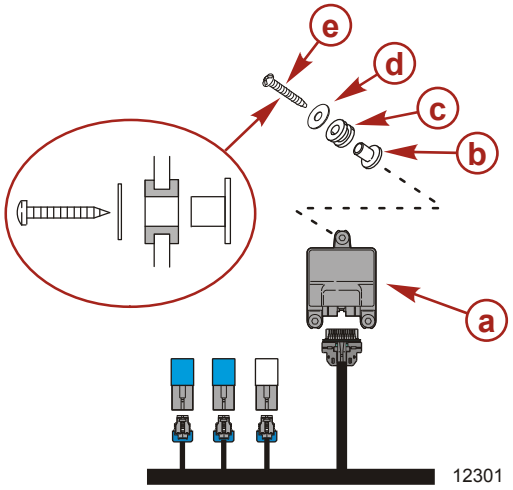
6. Install and configure the separately purchased Smart Tow® capable gauge. Refer to the instructions that accompanied the gauge.

   NOTE: *The gauge will require configuration prior to use.*
7. Secure all harnesses within 25.4 cm (10.0 in.) of their connection points.

Command Module Installation

1. Plug the command module connector into the command module.
2. To minimize vibration, mount the command module with the supplied rubber grommets/bushings according to the following guidelines:
   - Mount in an area that is accessible.
   - Mount in an area where the wiring connections will not be stepped on or disturbed.
   - Mount in an area that stays relatively dry, with the connector pointed downward.
   - Fasten the command module harness to prevent flexing at the command module connection.

IMPORTANT: Avoid sharp bends in the cable. The minimum bend radius should be 7.6 cm (3 in.).



- **a -** Command module
- **b -** Bushing
- **c -** Grommet
- **d -** Washer
- **e -** Screw

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W6250 Pioneer Road
Fond du Lac, WI 54936-1939

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