

Warranty Information

Service Information

Bulletin No. 2003-08

Parts Information

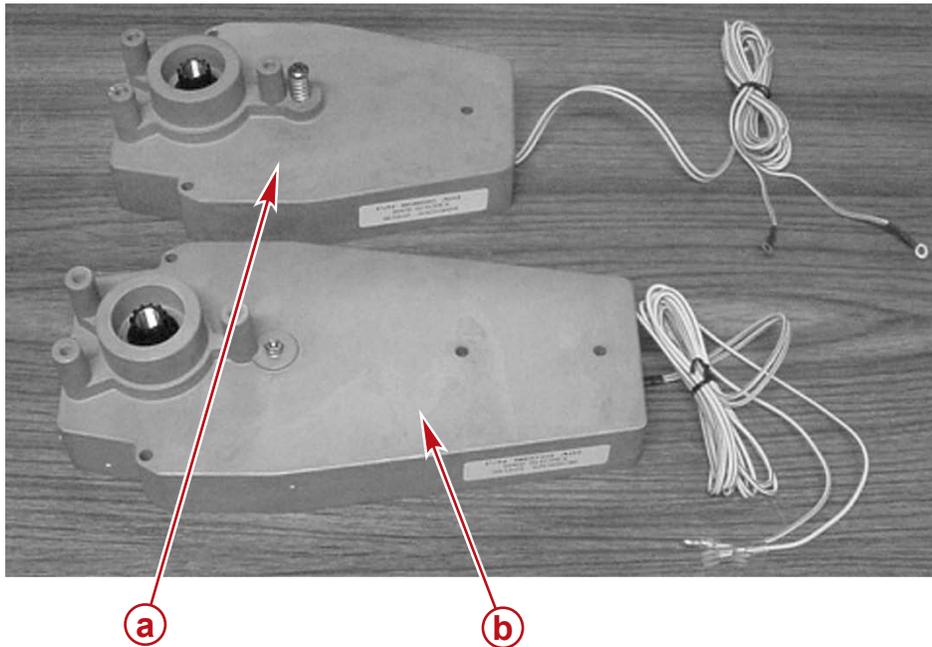
OEM No. 2003-02

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

4000/4500 GEN II Control Box

Situation

This new 4000/4500 GEN II control has reduced external movement of the throttle and shift cables. Under extreme cable routing conditions this will help minimize shift/throttle handle loads. As with previous controls, all cable adjustments will continue to be made at the engine so there is no need to disassemble the control box to make cable adjustments.



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a - Current control

b - GEN II control

NOTE: The new GEN II controls must use new GEN II throttle and shift cables.

Features of New control

- New mounting plate design allows panel mount (4000 GEN II Lock bar 883710A___) control to be installed on either port or starboard side at 30° increments from the horizontal position.
- Requires unique throttle and shift cables.
- Available in panel and console mount.

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- Available with pistol grip or lock bar handle design (Panel and Flush).
- Control box housing is approximately 2-1/2 inches longer.
- Eliminates external movement of throttle and shift cables.
- Throttle handle friction pre-set at factory.
- New lock bar handle has soft grip design.
- Panel mount lanyard switch wires will have bullet connectors.
- Six inch jumper to adapt power trim connections, sent with O/B controls.
- Long extension sent with all M/C console controls (not included in the M/C panel versions).

GEN II Controls

Control Type	Part Number	Handle Style	Replacement For:	Applications
MPC 4000 Non-trim Panel Mount	883709A01	Pistol Grip mounts on starboard side only	858690A1/A5	All MIE inboards, all current Mercury/ Mariner 6 thru 25 2-stroke, 8 thru 15 4-stroke, Force 40 HP and up (1993 and newer) without trim
MPC 4000 Non-trim Panel Mount	883710A01	Lock Bar- mounts on starboard or port side	827270A41/A45	All MIE inboards, all current Mercury/ Mariner 6 thru 25 2-stroke, 8 thru 15 4-stroke, Force 40 HP and up (1993 and newer) without trim
MPC 4000 With Trim Panel Mount	883709A02	Pistol Grip- Mounts on starboard side only	Replaces part 858690A2/A6/A 8	All current Mercury/ Mariner, Force 40 HP and up (1993 and newer) with trim
MPC 4000 With Trim Panel Mount	883710A02	Lock Bar- mounts on starboard or port side	827270A42/A46/ A48	All current Mercury/ Mariner, Force 40 HP and up (1993 and newer) with trim

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Control Type	Part Number	Handle Style	Replacement For:	Applications
MPC 4000 With Trim Panel Mount	883709A03	Pistol Grip-mounts on starboard side only	858690A3/A7A9	All MCM and Mercury/ Mariner 3.4L with external trim
MPC 4000 With Trim Panel Mount	883710A03	Lock Bar-mounts on starboard or port side	827270A43, 47,49	All MCM and Mercury/ Mariner 3.4L with external trim
MCC 4500 Non-trim Console mount-single	883711A11	Redesigned Rubber grip	88688A80, 877700A11	All MIE inboards, all current Mercury/ Mariner, Force 40 HP and up (1993 and newer) without trim
MCC 4500 With Trim Console Mount-single	883711A12	Redesigned Rubber grip	88688A82, 877700A12	All current Mercury/ Mariner, Force 40 HP and up (1993 and newer) with trim
MCC 4500 With Trim Console Mount-single	883711A13	Redesigned Rubber grip	88688A84, 877700A13	All MCM and Mercury/ Mariner 3.4L with external trim
MCC 4500 Non-Trim Console Mount- dual	883711A01	Redesigned Rubber grip	88688A86, 877700A1	All MIE inboards, all current Mercury/ Mariner, Force 40 HP and up (1993 and newer) without trim
MCC 4500 With Trim Console Mount- dual	883711A02	Redesigned Rubber grip	88688A88, 877700A2	All current Mercury/ Mariner, Force 40 HP and up (1993 and newer) with trim
MCC 4500 With Trim Console Mount- dual	883711A03	Redesigned Rubber grip	88688A90, 877700A3	All MCM and Mercury/ Mariner 3.4L with external trim

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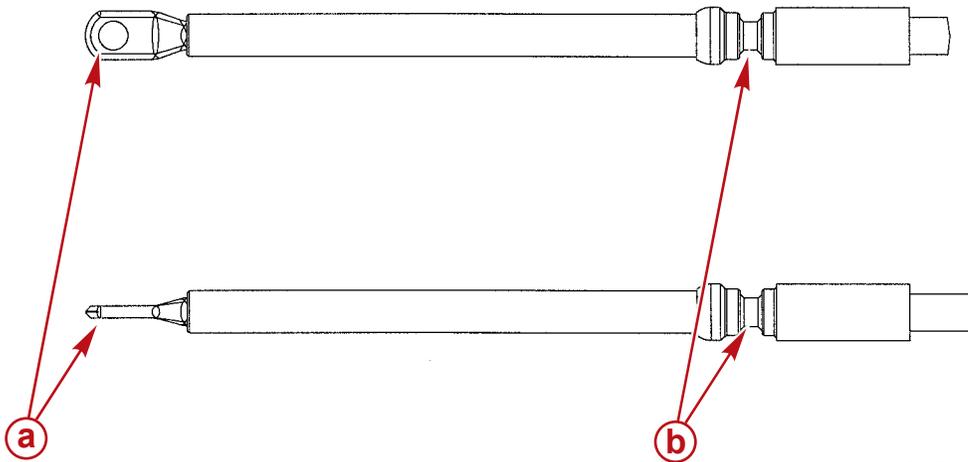
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Throttle/Shift Cables

New throttle and shift cable part number	Description
883719A__	Standard GEN II cable (single pack) with 16 lay wire/full complement solid core wire
883720A__	Platinum GEN II cable (single pack) 16 lay wire/flexible core wire
883719B__	Bulk pack Standard cables
883720B__	Bulk pack Platinum cables

NOTE: Commander consoles (88688A __) and side mount controls (881170A__ series will continue to use throttle and shift cables 850716A__ and 877773A__.

New GEN II control cable – control box end



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- a** - GEN II control cable center core wire (non-adjustable)
- b** - GEN II control cable slot in cable housing wider than the standard SAE cable

Control Cable Quality

Outboard control cables (throttle and shift) generally fall into three different quality levels.

Level 3: Generally this is the least expensive cable with a limited number of wires in the outside housing (generally 6 wire), and has a solid center core wire. If sharp bends are made with this type of cable, the outer housing will deform and put pressure on the center core wire increasing throttle and shift load. This cable will perform satisfactorily on short runs where there is a limited number of bends in the cable and the bends are very gradual. Improper handling of this cable prior to installation may cause it to deform which will create increased throttle and shift loads.



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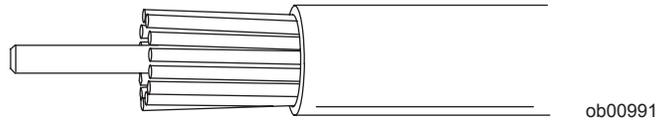
Level 3 cable: 6 wires in outside housing and solid core wire

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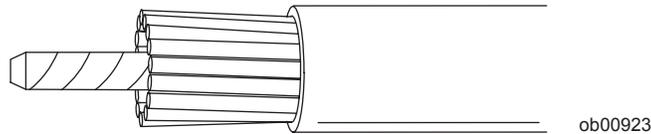
Level 2: This mid grade cable has more wires in the outside housing, sometimes referred to as a full complement cable. These types of cables generally still use a solid center core wire.

Because of the increased number of wires in the outer housing, this type of cable can make more aggressive bends without the outer housing deforming. Ideal for center console boats where the cables make an extra bend between the control and the engine. Minimum recommended quality level for all Mercury outboard and MCM applications.



Level 2 cable: Full complement wire in outside housing, solid core wire

Level 1: The highest grade/level 1 cables have a thicker outer housing with full complement of wires, and a flexible center core wire. Ideal for long runs where more than the normal number of bends are required or aggressive bends in the cable are required. Recommended for use in boats requiring 16 FT cables or longer.



Level 1 cable: Full complement of wires in outside housing, thicker housing flexible center core wire

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