

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

Official Recall Notification Under the U.S. Federal Boat Safety Act

Replacement of Intermediate Shift Cables on Mercury Racing Bravo Stern drives

Scope

Worldwide.

Models Affected

| Transoms Shipped With MerCruiser Engines | Engine Serial Number | Transom Serial Number |
|--|----------------------|-----------------------|
| High Performance Bravo | 0M964299-0M964965 | 1A439853-1A443568 |
| ITS Bravo | 0M964299-0M964965 | 0M964406-0M964975 |

| Loose Transoms | Transom Serial Number |
|------------------------|-----------------------|
| High Performance Bravo | 1A439853-1A443568 |
| ITS Bravo | 0M964406-0M964975 |

| Shift Cables Obtained as a Service Replacement Part | Shift Cable | Shift Cable Kit |
|---|-------------|-----------------|
| Bravo | 865437A02 | 815471T1 |

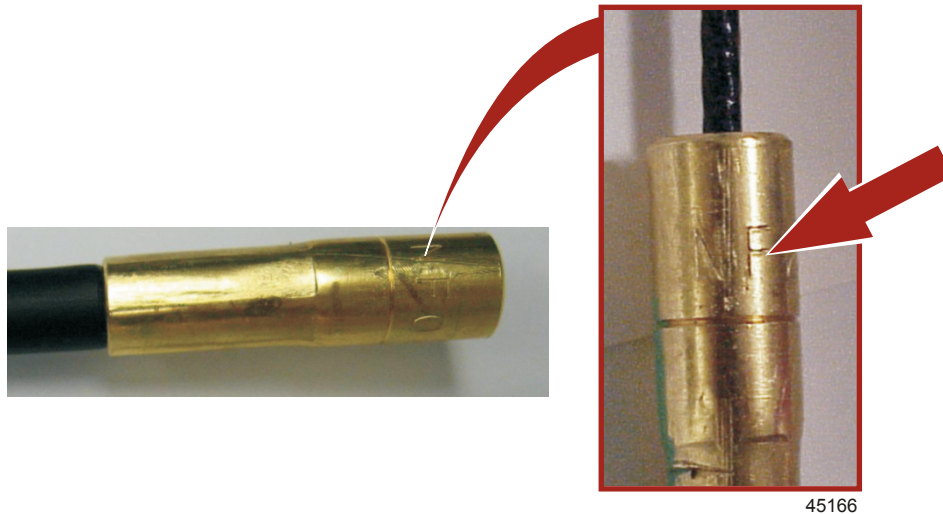
Any replacement cable or cable kit with a box date (as identified on the box) before February 11, 2010 or after June 23, 2010 is not affected by this recall. If the cable has a box date within this range, the date code on the cable itself will determine whether the cable is affected by this recall.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Identifying Affected Shift Cables Obtained as Replacement Parts

To determine whether a replacement shift cable is affected by this recall, find the cable date code stamped on the barrel of the cable jacket on the shift-bracket end of the cable.



Date code stamp

Date Codes of Cables Affected by This Recall

IMPORTANT: The date code range for affected cables is NB111–NF141.

All affected cables have N as the first character and B–F (February–June) as the second character.

| First Character | Second Character | Third and Fourth Characters | Fifth Character |
|-----------------|------------------|-----------------------------|-----------------|
| Year Code | Month Code | Day of the Month | Shift Number |
| N | B, C, D, E, F | 00–31 | 1–3 |

For example, the following table shows how to interpret a cable that has the date code **NF182**.

| Character | Description |
|-----------|--------------|
| N | 2010 |
| F | June |
| 18 | 18th day |
| 2 | Second shift |

Situation

The core fitting may not remain attached to the core wire. If the core fitting is detached from the core wire, shift control will be lost. Replacement of the core wire of the intermediate shift cable should be scheduled and completed as soon as possible. The boat should not be operated until the repair has been completed.

Correction

Replace the core wire of the intermediate shift cable. Follow the appropriate procedures for replacing the core wire in **How to Replace the Core Wire**.

Some cables have been corrected in production. Boat builders and dealers in the United States and Canada: use MercNET to determine whether the wire has already been repaired. First search under the engine serial number. If this recall is not listed with the engine serial number, search under the transom serial number.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Identification of corrected shift cables

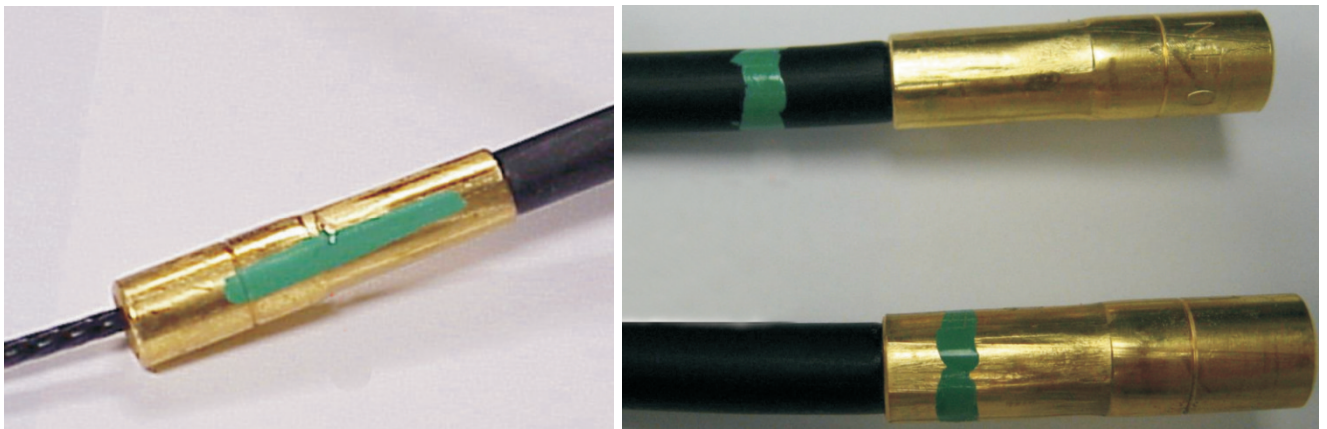
Cables in transoms within the affected serial number range or cables within the date codes have been repaired if they are marked with a green or blue paint dot on the cable end. Corrected cables are now being marked with a green paint stripe on the barrel of the cable jacket or a stripe of green tape around the outside of the cable housing at the engine end of the cable. If this green marking is present, core wire replacement is not necessary. Some cables did not receive the paint mark on the outer cable. If the paint dot is present on the core wire end but not on the outer cable, the cable is still good. Add a mark to the outer cable and submit a claim for inspection without replacement.



45159

Green or blue dot on the end of the core wire indicates a corrected core wire

Corrected cables have been marked on the outer housing at the engine end to signify that the inner core wire has been changed.



45171

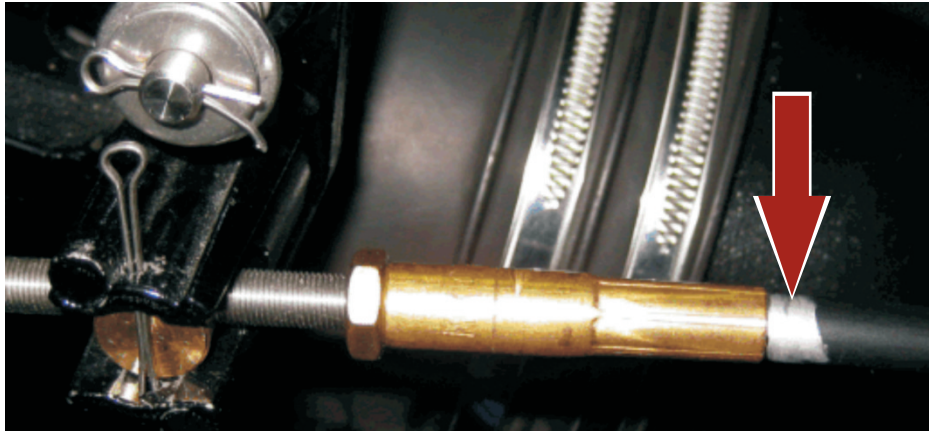
Various markings to indicate a corrected cable

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

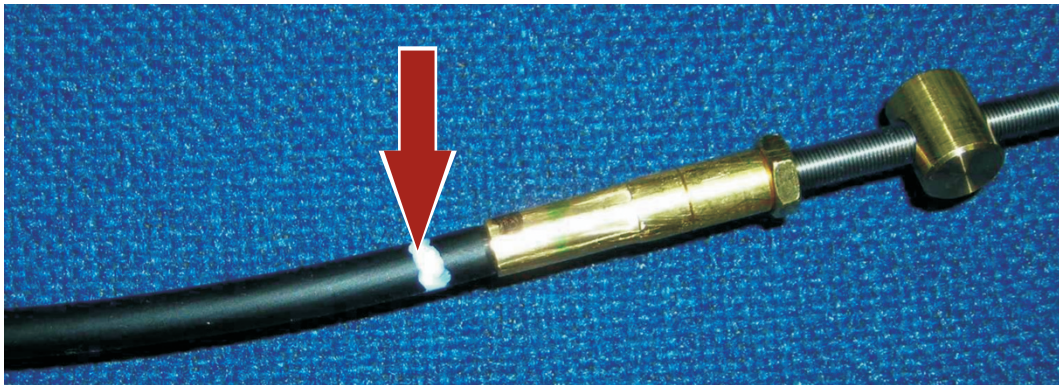
Replacement of Intermediate Shift Cables on Mercury Racing Bravo Sterndrives

Boat builders have been painting a silver stripe around the cable behind the brass ferrule at the engine end of the cable to signify that the inner core wire has been changed. Regardless of the color used on the outer cable housing, the inner core wire is identified with a green or blue paint dot on the end.



45170

Dealers: Mark the outer cable at the engine end as shown with a white paint line.



45172

NOTE: All transoms with serial numbers below the affected range listed and all individual cables with date codes earlier than February 11, 2010 have good cables. All transoms built after the ending serial number, loose cables manufactured after the final date code, or any cable that has been repaired will have a green or blue paint dot on the end of the core wire. Normally Mercury requires replacement of the inner and outer shift cable assembly. Because these intermediate shift cables have little or no wear, it is acceptable to replace the core wire only.

Replacement Parts

| Qty | Description | Part Number |
|-----|-----------------------------|-------------|
| 1 | Bravo shift cable core wire | 865438 |

How to Replace the Core Wire

IMPORTANT: Refer to the appropriate sterndrive service manual for instructions on removal, installation, and adjustment of shift cables. After replacing the core wire, add the paint stripe to the engine end of the cable to enable easy identification in the future.

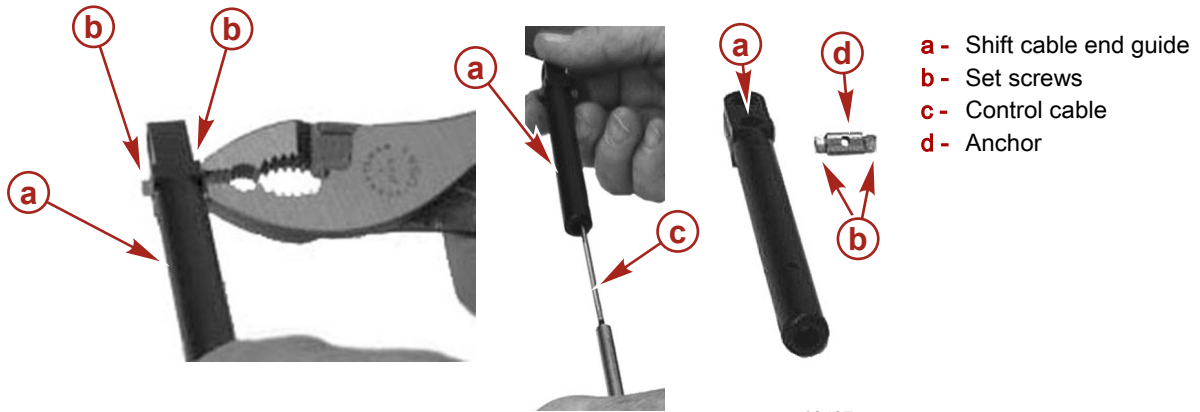
Removal—Bravo Models

1. Remove the sterndrive from the transom assembly.
2. Remove the intermediate shift cable from the shift plate.
3. Locate the shift cable end guide that was removed from the engine shift plate.
4. Loosen both set screws.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

5. Pull the shift cable end guide from the shift cable.



16487

6. Pull the core wire from the intermediate shift cable cavity in the bell housing.



Core wire end

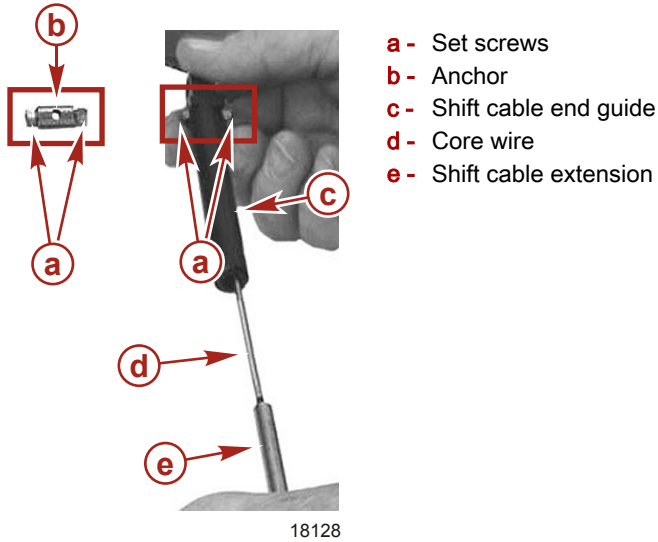
Installation—Bravo Models

1. Install the new core wire into the shift cable cavity in the bell housing.
2. Install the control cable through the shift cable end guide.

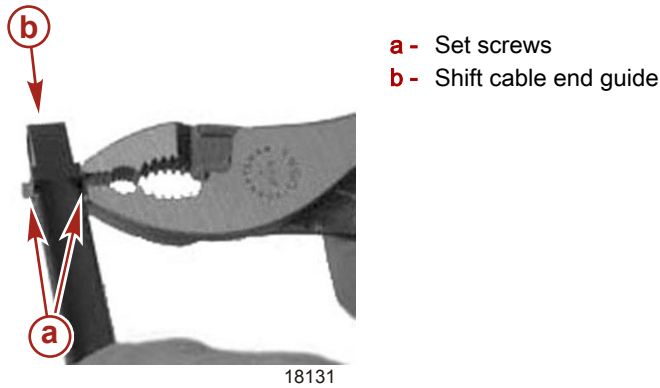
THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

3. Allow the core wire to enter through the anchor in the shift cable end guide.



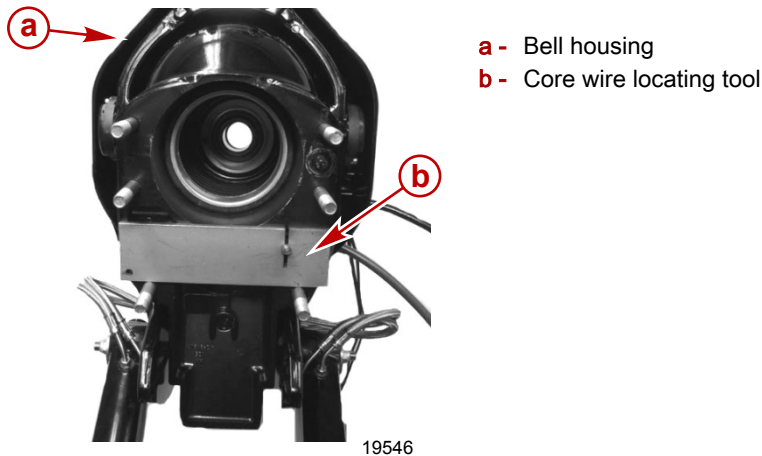
4. Tighten the set screws on the anchor to secure the core wire.



5. Pull the shift cable end guide to ensure the control cable connection is secure.

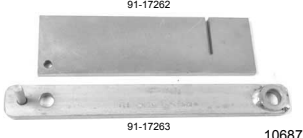
Shift Cable Adjustment

1. Install the core wire locating tool onto the face of bell housing.

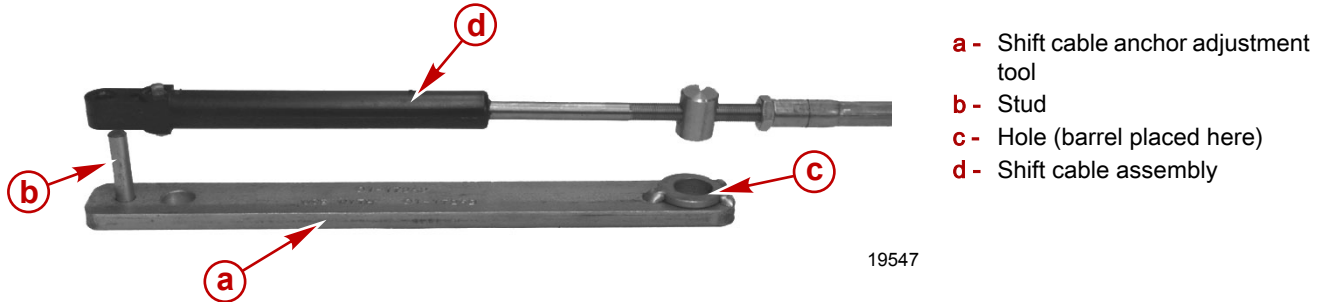


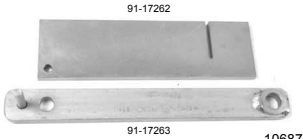
THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

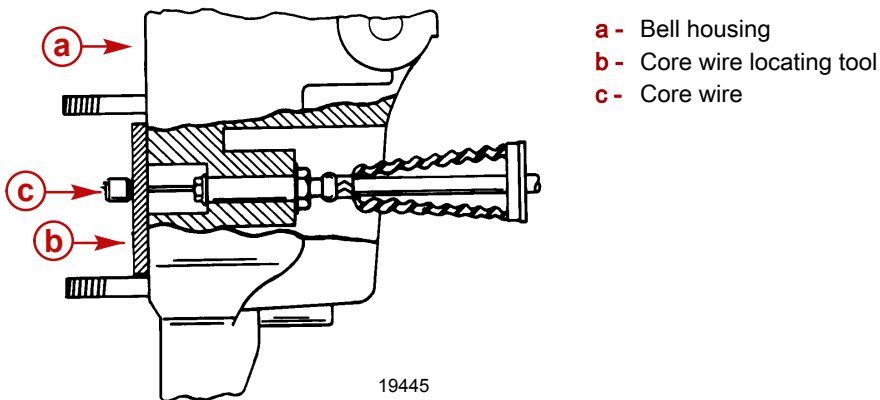
| | |
|---|--|
| Shift cable anchor adjustment tool | 91-17262A1 |
|  | Use to set the shift cable adjustments after shift cable installation. Includes the following components: 91-17262A1 Core wire locating tool 91-17263 Shift cable anchor adjustment tool |

2. Place the shift cable anchor adjustment tool on the end of the shift cable.

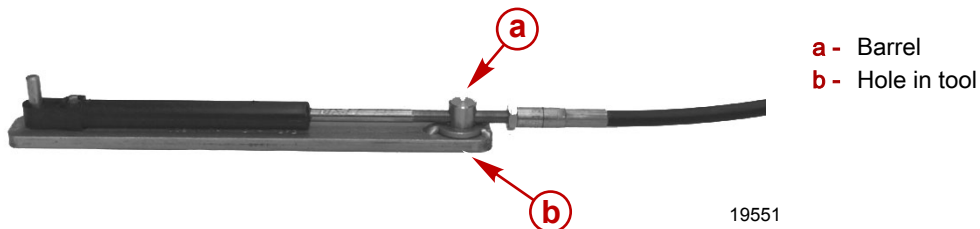


| | |
|---|--|
| Shift cable anchor adjustment tool | 91-17262A1 |
|  | Use to set the shift cable adjustments after shift cable installation. Includes the following components: 91-17262A1 Core wire locating tool 91-17263 Shift cable anchor adjustment tool |

3. Ensure that bell housing end of core wire is positioned tightly against the core wire locating tool.



4. Adjust the cable barrel to align with the hole in the tool.



5. Follow the procedures in **Service Manual #39 – Bravo Sterndrives** for final shift cable adjustment and sterndrive installation.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Owner Notification

All registered owners within the affected serial number range will receive a letter from Mercury Marine. This letter will explain the situation and request that they contact their local dealer to set up a time to have this inspection performed. A copy of this letter is included with this bulletin.

Warranty

Mercury Marine will credit the dealer for the cost of the part and the labor. Submit a warranty claim through your normal warranty-processing channel, listing the following information:

1. MerCruiser engine serial number. Add the transom serial number to the claim text.
 2. If the transom assembly is a service part or is part of CMD or other diesel power package, submit the claim against the transom serial number.
 3. If the cable is a service part, submit the claim against the original engine serial number.
 4. Work orders will be needed to provide proof of installation of service parts.
 5. Submit P&A claim for packaged cables in inventory.
- Flat rate code and labor:
 - a. **Installed in a boat with a drive:** Flat Rate Code: SB18; Labor: 1.8 hr (includes 1.0 hr to R&R drive)
 - b. **If the transom is not installed or the drive is not installed on the boat:** Flat Rate Code: SB04; Labor: 0.4 hrs
 - c. **If the cable is in the box:** no time is allowed
 - Part code: 221
 - Failure code: 40

Old Part

- **In the United States and Canada:** Cut the core wire in half with wire cutters to prevent possible use by mistake and scrap.
- **Outside the United States and Canada:** Follow instructions issued by your Marine Power International office or by your distributor.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

NOTICE FOR RECALL UNDER THE U.S. FEDERAL BOAT SAFETY ACT

Dear Mercury Marine Customer:

Thank you for your purchase of a new boat powered by a Mercury Racing engine. We appreciate your business and hope everything is performing up to your expectations.

As part of our commitment to superior customer satisfaction, we have determined that it is necessary to replace the core wire of the intermediate shift cable to ensure the durability of your sterndrive package. It is possible that a core fitting may not remain attached to the core wire. If the cable end comes loose, the ability to shift the drive unit out of its current gear position (forward, neutral, or reverse) will be gone without notice to the operator. Failure of the shift cable, if it occurs, will not cause the throttle function to fail. The replacement of this core wire should be scheduled and completed at the earliest possible time.

Do not operate the boat until repairs have been completed.

What should you do?

Contact your Mercury MerCruiser dealer and make arrangements for the repair. There will be no cost for the repair to you. If you have any questions or no longer own this boat, please contact Mercury Racing Consumer Technical Service for assistance at +1 920 924 2088. The dealer will refer to Mercury Racing Sterndrive Bulletin 2010-02 for instructions on replacing the core wire.

Mercury Marine will reimburse the dealer for performing this recall in accordance with the instructions outlined in the Service Bulletin.

Mercury Marine apologizes for any inconvenience this recall may cause you. However, we have taken this action to ensure that your boating experience will be enjoyable and trouble-free.

Sincerely,

Mercury Marine Customer Service