

Circulate to:  Sales Manager  Accounting  Service Manager  Technician  Parts Manager

## Official Recall Notification U.S. Federal Boat Safety Act - Mercury Diesel 2.0L Power Steering Oil Cooler Replacement

### Models Affected

Models Covered	Serial Number
2.0L, 130 hp, Tier 2	88207810-88207943
2.0L, 150 hp, Tier 2	88222905-88222993
2.0L, 170 hp, Tier 2	88232236-88232326
2.0L, 150 hp, Tier 3	70017412-70017414
2.0L, 170 hp, Tier 3	70026630-70026655

### Scope

Worldwide

### Situation

It is possible for components of the steering system to make contact with the oil cooler on the engines listed above. These engines were originally manufactured with an octagonal oil cooler. This octagonal oil cooler needs to be removed and replaced with a round (cylindrical) oil cooler in order to prevent contact from the steering system components. Some of the octagonal oil coolers have already been replaced with round ones by Mercury, making additional replacement unnecessary. If unaddressed the interference between the octagonal oil cooler and the steering system could lead to steering difficulties and/or water entering the vessel.

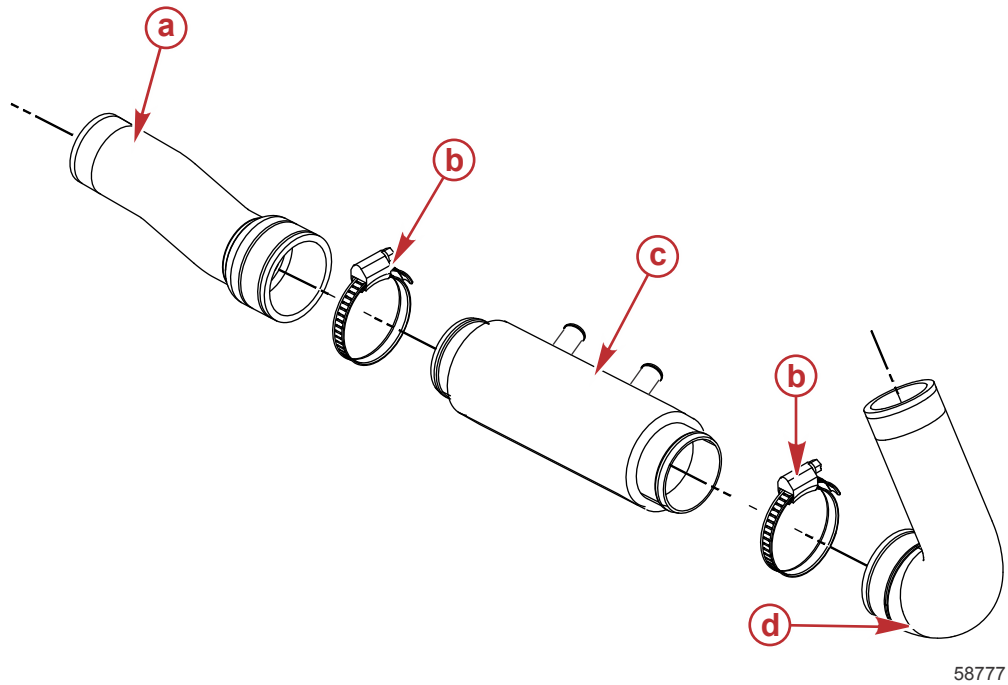
### Product Identification

If cooler is round, no further action is required. If cooler is octagonal, proceed with replacement described following.

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.

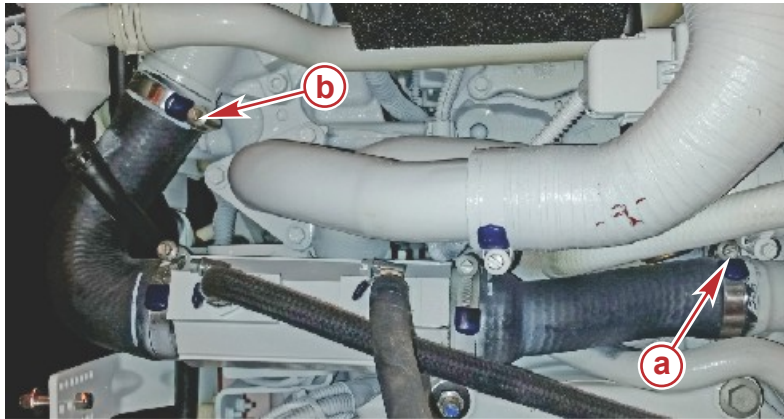
## Parts Required



Part	Qty.	Description	Part Number
a	1	Cooler outlet to heat exchanger inlet hose	897345018
b	2	Clamp	896332084
c	1	Oil cooler (white)	8M0109486
d	1	Charge air cooler outlet to cooler inlet hose	897345019

## 2.0L Power Steering Oil Cooler Replacement

- Loosen the hose clamp on the hose from the cooler outlet to the heat exchanger.



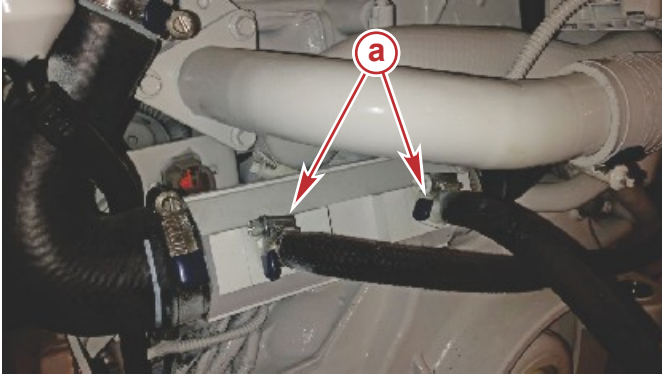
- a** - Cooler outlet hose to heat exchanger inlet
- b** - Charge air cooler outlet to the cooler inlet hose

- Loosen the hose clamp on the charge air cooler outlet to the cooler inlet hose.

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.

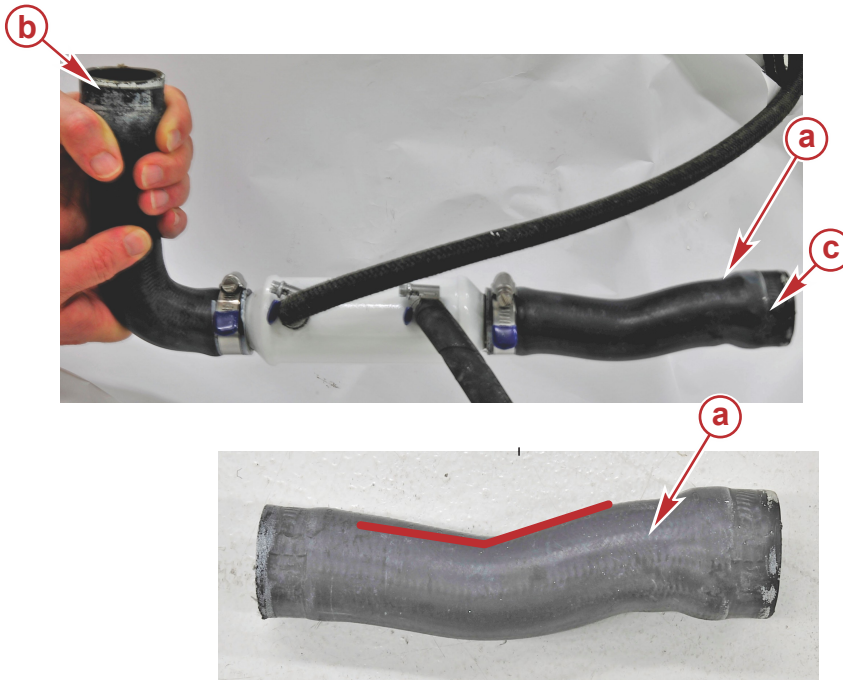
3. Remove the oil hoses from the octagonal cooler one at a time. Mark the location for installing on the new cooler. Retain the hose clamps for use with the new cooler.



a - Hoses from steering cylinder and oil reservoir

58779

4. Remove the cooler assembly.  
**NOTE:** There may be oil in the lines. Dispose of properly.
5. Loosely assemble the hoses and cooler as shown.



a - Oil cooler outlet to heat exchanger hose  
b - To charge air cooler outlet  
c - To heat exchanger inlet

58894

**NOTE:** The cooler is symmetrical, which allows it to be assembled in either direction.

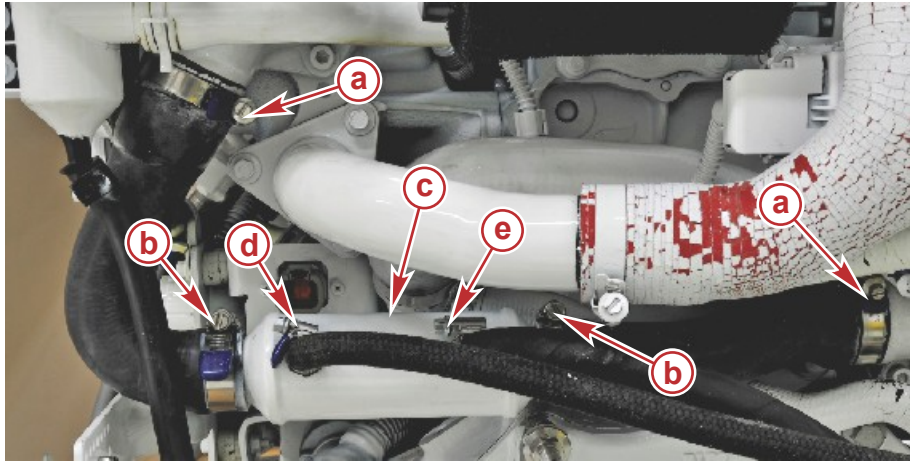
**NOTE:** Cooler outlet to heat exchanger inlet hose must be installed as shown or cooler could contact steering cylinder.

6. Install the oil hoses on the respective end of the round oil cooler. Perform this for each of the two oil hoses. Use the clamps removed earlier; tighten the clamps to the specified torque. Loosely install the assembly including the oil cooler, water hoses, and clamps.

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.

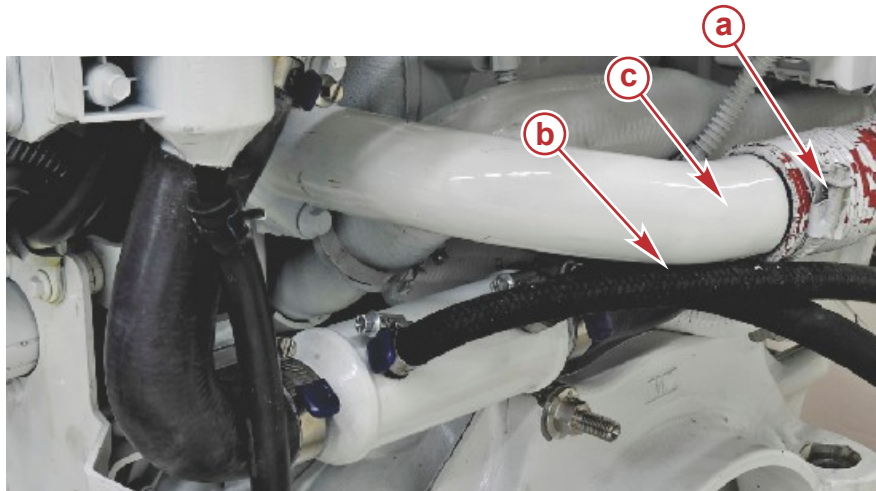
Description	Nm	lb-in.	lb-ft
Clamps	5	44.2	-



- a** - Clamps used from old cooler
- b** - Clamps (new) supplied with hose kit
- c** - Round oil cooler
- d** - Return oil line to the fluid reservoir, clamp used from old cooler
- e** - Oil line from the steering cylinder, clamp used from old cooler

58782

7. Orient the cooler as shown with the oil hoses nearly touching the pipe. Rotate the hose clamp on the air supply pipe as shown, tighten securely.



- a** - Rotate clamp as shown
- b** - Oil hoses nearly touching pipe
- c** - Air supply pipe

58796

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.

8. Cooler and oil lines should be oriented at a 2 o'clock position as shown.



58787

Oriented at a 2 o'clock position

9. Tighten the water hose clamps to the specified torque.

Description	Nm	lb-in.	lb-ft
Clamps	6	53.1	–

10. For an engine currently installed in a vessel, and after the cooler has been replaced using the above steps, perform a test to verify clearance. Move steering from full Port to full Starboard position to verify it moves without interference.

## Owner Notification

A letter will be sent to every registered owner of an affected product. The letter will advise the owner to contact any Mercury Diesel dealer for the repair. As a selling or servicing dealer, you should also contact your customers to make them aware of this recall and to schedule an appointment for this repair. A copy of the letter is included with this service bulletin for your reference.

## Warranty

**United States and Canada:** Mercury Marine will credit the dealer for the cost of parts and labor. Submit a warranty claim through your normal warranty-processing channel, listing:

- Engine serial number
- Labor: 1.5 hour
- Warranty flat rate code: SB10 and SB05
- Qty. 1, charge air cooler outlet to cooler inlet hose part number 897345018
- Qty. 2, clamp part number 896332084
- Qty. 1, oil cooler part number 8M0109486
- Qty. 1, cooler outlet to heat exchanger inlet hose part number 897345019
- Part code: 820
- Fail code: 00

**Outside the United States and Canada:** Follow instructions issued by your local 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.

## **OFFICIAL NOTIFICATION OF FEDERAL BOAT SAFETY ACT RECALL**

Dear Mercury Marine Customer,

Thank you for your patronage. We at Mercury are dedicated to providing superior product of outstanding quality and reliability. As part of our continuing efforts to exceed our customer's expectations, we have determined that certain unscheduled service to your registered product may be necessary.

### **What is the Condition?**

We have identified a potential issue with the power steering oil cooler on your vessel. You may notice steering interference or water being pumped into the vessel, most perceptible during use. If left unattended, this issue could possibly lead to a hazardous condition. Do not operate the boat until this situation has been corrected.

### **What Will We at Mercury Do?**

We have provided instructions to our authorized dealers for this service. The required service will be performed at NO COST to you.

### **What Should You Do?**

Contact your authorized Mercury dealer to schedule a service appointment. Be sure to mention Mercury Diesel Service Bulletin 2015-65.

Please present this notice to your authorized Mercury dealer at the time of service.

If you have any questions or no longer own this Mercury product, please contact Mercury Marine Customer Assistance, at 1-920-929-5040, between 7:30 AM and 4:30 PM, Central Time.

We have sent this notice in the interest of your continued satisfaction with our product. We sincerely regret any inconvenience this may cause you.

Thank you for boating with Mercury Marine.

Mercury Marine Customer Service