Hi-Performance MARINER OUTBOARDS
MERCURY PERFORMANCE OUTBOARDS

service bulletin

No. 98-1

Power Trim Piston/Rod Replacement P/N 43397A6

Models Affected

MERCURY/MARINER

1998 150 - 225 HP Pro Max/Super Magnum 2.5L &
1998 300 Pro Max/Super Magnum 3.0L

The port side power trim piston/rod assembly may have been incorrectly machined on some of the engines listed. This could cause the tilt relief valve function to become disabled, allowing the engine to trim past the clamp brackets at higher than normal propeller thrust.

These outboards must have the port trim piston/rod assembly replaced to avoid a failure and to assure customer satisfaction.

SERIAL NUMBER LISTING BY MODEL AFFECTED BY RECALL

150 Pro Max/Super Magnum				
0G703344 thru 0G703347	0G703368 thru 0G703369	0G703372 thru 0G703373	0G703378 thru 0G703382	0G703531 thru 0G703532
200 Pro Max/Super Magnum				
0G703348 thru 0G703351	0G703353 thru 0G703357	0G703402 thru 0G703403	0G703405	0G703533
225 Pro Max/Super Magnum				
0G703150 thru 0G703153	0G703178 thru 0G703183	0G703185 thru 0G703197	0G703224 thru 0G703229	0G703404
0G703477 thru 0G703491	0G703494 thru 0G703497	0G703499 thru 0G703513	0G703537 thru 0G703546	
300 Pro Max/Super Magnum				
0G703171 thru 0G703177	0G703215 thru 0G703220	0G703222 thru 0G703223	0G703230 thru 0G703244	0G703246 thru 0G703251
0G703253	0G703325 thru 0G703326	0G703352	0G703388	0G703416 thru 0G703419
0G703425 thru 0G703429	0G703448 thru 0G703449	0G703453 thru 0G703455	0G703492 thru 0G703493	0G703528 thru 0G703530

Owner Notification – USA/Canada

A letter will be sent to every registered owner of an affected outboard. The letter will advise the owner to return their outboard to their selling dealer or any authorized dealer for replacement of the port side power trim piston/rod assembly. A copy of the letter is included with this Service Bulletin.

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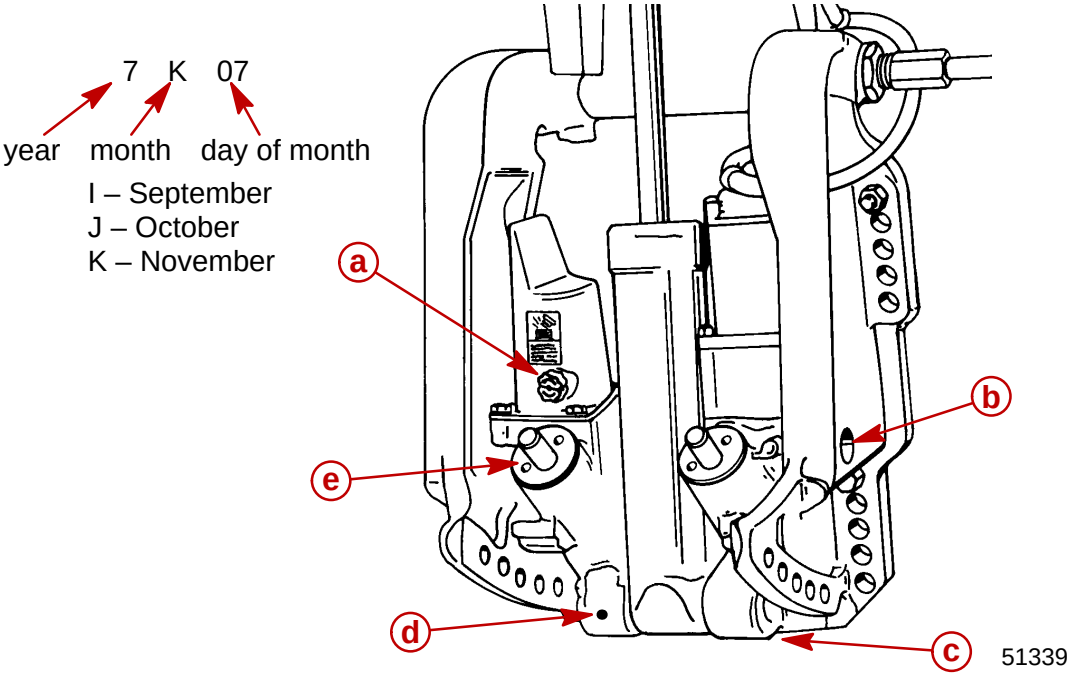
Repair Identification

Outboards within the serial number range listed that have been reworked at the factory are identified by:

- A white paint dot on the port side of the trim manifold near the tilt cylinder lower cross pin area.
- Engine carton will have a ORANGE dot near the serial number location.

Any engine that **DOES NOT** have the factory rework marking, should have the anode assembly removed from the power trim, to inspect for affected date codes. Affected date codes are 7I02 thru 7K07. Power trims with date codes that are not in the affected range do not require trim piston/rod replacement.

Date code explanation:



a - Fill cap
b - Manual valve
c - Date code location
d - Factory rework mark (white dot)
e - Port trim ram

Dealer Outboard Inventory

Affected outboards in dealer inventory **MUST BE** reworked prior to customer delivery.

Service Parts Stock

- COMPLETE POWER TRIM ASSEMBLIES: Any complete power trim assembly (P/N 826729A2) in dealer inventory, that have been received from Mercury Marine Distribution Centers between September 1 1997 and November 20, 1997 should be inspected for affected date codes.
- PISTON ROD ASSEMBLIES: None of the service piston/rod assemblies (P/N 43397A6) were affected by this incorrect machining. Dealer inventory **DOES NOT** need to be inspected, or returned for credit.

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Correction

With engine in up right position and installed on boat, or suitable engine cart:

Tilt outboard to the full “UP” position and engage tilt lock lever.

Slowly remove “Fill” plug, and turn manual release valve 3 to 4 turns (counterclockwise) to bleed pressure.

Place a clean pan under trim system to catch fluid.

Loosen the port side trim rod cylinder cap using spanner wrench (91-74951), or cap removal tool (91-44487A1) . Before removing , clean any dirt or loose paint chips from around cap area.

Remove trim rod cylinder cap.

Install trim rod removal tool (91-44486A1) and pull trim piston/rod assembly from cylinder.

Install cylinder cap over new piston/rod assembly.

Apply Quicksilver Power Trim and Steering Fluid on all O-rings and seals before installation.

Install trim rod and cap.

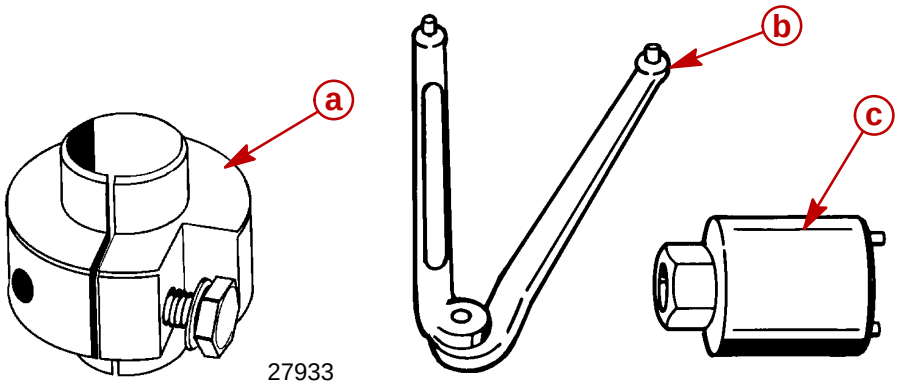
Tighten cap securely.

Close the manual tilt valve and reservoir cap.

Disengage the tilt lock lever.

Cycle the trim system 2 times (full tilt to full retract) and recheck fluid level.

NOTE: *For more detailed power trim repair information consult appropriate service manual.*



a - Trim rod removal tool (91-44486A1)
b - Spanner Wrench (91-74951)
c - Cap removal tool (91-44487A1)

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Warranty

Do not submit a warranty claim for inspection of factory rework marking only, (refer to page 2). If replacement of power trim piston/rod assembly is required, complete a warranty claim listing.

Outboard serial number

- Qty. 1 P/N 43397A6 Piston/rod assembly
- One (1) hour labor
- Warranty Flat Rate Code: NJC
- Failure Code: 118 - 00

US and CANADA: Complete/process claim via Midas or return a warranty claim form. Tag and hold parts for 60 days after the warranty credit is received.

INTERNATIONAL: Follow instruction issued by Marine Power International office or by your distributor.

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MERCURY MARINE

W6250 PIONEER ROAD
P.O. BOX 1939
FOND DU LAC, WI 54936-1939 U.S.A.

PHONE (414) 929-5000 ■ FAX (414) 929-5060

Dear Mercury Marine Customer:

Our records indicate that you are the owner of a Mercury or a Mariner outboard included in a recall. The power trim system could malfunction and allow the engine to trim past the clamp brackets at higher-than-normal propeller thrust.

WHAT YOU SHOULD DO

Contact your authorized dealer, preferably the one who sold you the engine, and make arrangements to determine if your engine needs to be repaired. The dealer will refer to Mercury/Mariner Service Bulletin 98-1 for instructions. You must deliver your engine to the dealer and present this letter, the reverse side of which is a claim-form your dealer needs to send to us for reimbursement.

NOTE: *If your boat is currently in storage, it is permissible to have the power trim system repaired later when the boat is taken out of storage. The repairs should be completed as soon as possible before the start of your next boating season.*

WHAT WE WILL DO

We will reimburse the authorized dealer for inspecting and/or repairing the hydraulic system in line with the service bulletin.

We apologize for inconveniencing you. We have taken this action to insure the proper operation of your engine, which helps to insure your satisfaction.

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MERCURY MARINE
A BRUNSWICK COMPANY
MERCURY MARINER MERCRUISER FORCE QUICKSILVER

WARRANTY CLAIM

DATE RECEIVED AM ____ PM ____ | DATE PROMISED AM ____ PM ____

ENGINE SERIAL NUMBER

CUSTOMER NAME	DEALER CODE	
ADDRESS	DEALER NAME	
CITY, STATE, ZIP	DEALER ADDRESS	
MODEL / SERIAL NUMBER	CITY, STATE, ZIP	
DATE OF SALE	ORDER NUMBER	LABOR RATE

PRODUCT (CHECK ONE ONLY)
- [X] OUTBOARD
- [ ] STERNDRIVE
- [ ] INBOARD
- [ ] INFLATABLES
- [ ] JET
- [ ] QUICKSILVER P&A (ATTACH RECEIPT)
- [ ] OTHER - SPECIFY _____

DATE FAILED
DATE REPORTED
DATE REPAIRED
HOURS USED

DESCRIPTION OF FAILURE
Port Piston/Rod Assembly Replacement per Service Bulletin 98-001

BOAT TYPE

H.I.N.

FAILURE CODE	FAILURE CODE DESCRIPTION	NOTE: WARRANTY CLAIM MUST BE RECEIVED WITHIN 30 DAYS OF REPAIR DATE TO BE CONSIDERED FOR APPROVAL.	PRE-AUTHORIZATION NUMBER	ENTER DATE
118-00	Tilt Ram-Service Bulletin Adj.			

REPAIR PARTS IDENTIFICATION

QTY	PART NUMBER	PART DESCRIPTION	LIST PRICE	TOTAL
1	43397A6	Piston/Rod Assembly		

LABOR PERFORMED PER FLAT RATE MANUAL

CODE	DESCRIPTION	HOURS	DOLLARS
NJC	SB 98-1 Labor	1.0	

TOTAL LABOR	
TOTAL PARTS	
SUB TOTAL	
TAX	
SUBLET LABOR (RECEIPT ATTACHED)	
FREIGHT (ATTACH RECEIPT IF OVER $10.00)	
GRAND TOTAL	

FOR FACTORY USE ONLY

I HEREBY AUTHORIZE THE ABOVE REPAIR WORK TO BE DONE AND GRANT YOU AND/OR YOUR EMPLOYEES PERMISSION TO OPERATE THE UNIT AS NECESSARY FOR TESTING AND/OR INSPECTION.

CUSTOMER AUTHORIZATION

01A1D101 - 04/12/93

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