



service information

ADVISORY
 BULLETIN

No. 99-2

Propeller Whine – 25 Thru 50

Models Affected

Mariner/Mercury Models

1.83: & 2.42:1 Gear Ratio, 3.44 in./87.38 mm Diameter Gearcases Only.

Two - Stroke

40 (3 cylinder)	1997-1/2 and newer 1998 and newer	USA S/N 0G531301 and above Belgium S/N 09973100 and above
50 (3 cylinder)	1998 and newer 1998 and newer	USA S/N 0G590000 and above Belgium S/N 09973100 and above

Four - Stroke

25 (2 cylinder)	1998 and newer	USA S/N 0G590000 and above
45/50 (4 cylinder)	1997 and newer	USA S/N 0G442710 and above

2:1 Gear Ratio, 3.44 in./87.38 mm Diameter Gearcases are not affected.

Big Foot 4.25 in./107.95 mm Diameter Gearcases are not affected.

We have experienced propeller whine on the models listed that require 8, 9, or 10-1/2 inch pitch propellers. Propeller whine is difficult to describe and does not occur with all applications. The propeller whine referred to in this advisory is caused by propeller blade vibration, creates a mid to low noise, and usually occurs between 1200 and 2400 rpm. It will not affect gear or gearcase durability. Most of the reports involve these models on pontoon boat applications with 8, 9, and 10 inch pitch propellers. Propellers that whine on one application can be removed and installed on another application or on a different gear ratio outboard and not produce the noise. The same style 3.44 in./87.38 mm diameter gearcases with a 2:1 gear ratio have not experienced this noise situation.

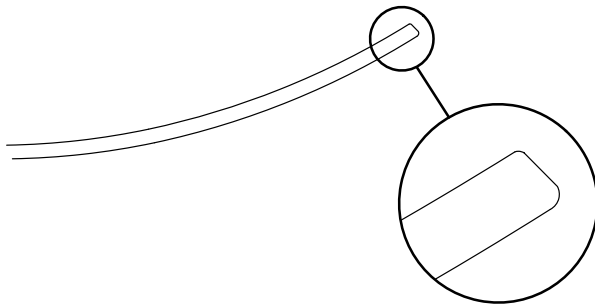
CORRECTION

It is recommended to install the new series propeller that has the trailing edge tapered in the form of a chisel point.

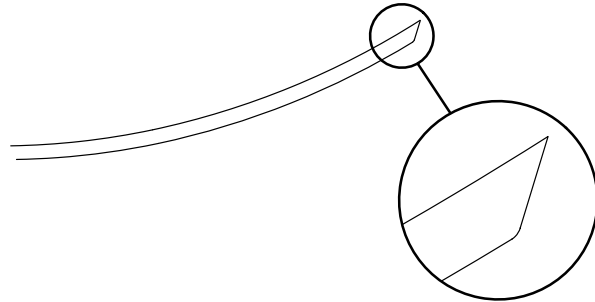
New Series Propeller with Chisel Point Trailing Edge

<u>Pitch</u>	<u>Diameter</u>	<u>Previous P/N</u>	<u>Chisel Edge New P/N</u>
8	12-1/2	48-42738A10	48-42738A11
8 Cupped	12-1/2	48-42738A12	48-42738A13
9	12-1/4	48-87818A10	48-87818A11
10-1/2	11-5/8	48-827312A10	48-827312A11
10-1/2	12	48-42740A10	48-42740A11

You can identify the new propellers by inspecting the propeller blade trailing edge. The taper begins 3/16 to 1/4 in. (5 to 6 mm) in from the edge and finishes to a fairly sharp point at the very trailing edge of the prop blade.



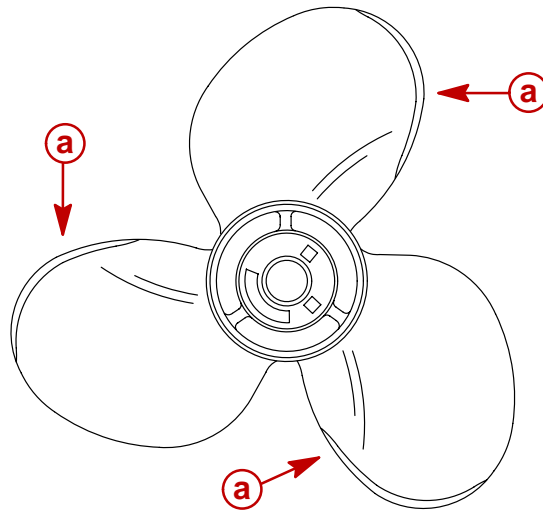
Original Blade Trailing Edge



Chisel Point Trailing Edge

57209

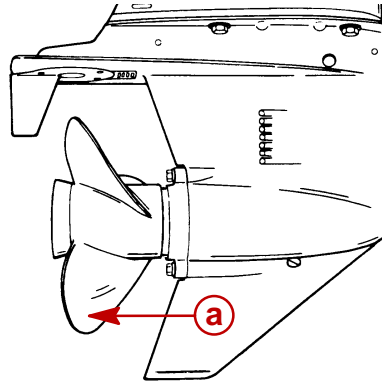
The area of the taper begins approximately 2 in. (50 mm) from the prop hub and extends around to the tip of the blade.



a - Blade Modified Area
Front View

57208

Some existing 8 inch 48-42738A12, 9 inch 48-87818A10, 10-1/2 inch 48-827312A10, and 10-1/2 inch 48-42740A10 production propellers with the chisel point edge were put into the system beginning with 10/1/98 production. 10/01/98 date code should appear on the box. Your inventory may already contain some chisel edge propellers with the previous part numbers. Later production will be boxed under the new part numbers listed in this advisory.



a - Low Pressure Side of Blade

WARRANTY

Notification by this "Service Information Advisory" authorizes warranty coverage as listed.

Product sold prior to April 15, 1999:

Warranty is approved for propeller replacement because of propeller whine for registered outboards listed in this document that were sold prior to April 15, 1999.

Product sold on or after April 15, 1999:

Warranty is not approved for propeller replacement because of propeller whine for outboards listed in the document that were sold on or after April 15, 1999.

Complete warranty claim listing:

Outboard serial number

Qty. 1 P/N 48-_____A__ Propeller

One half (0.5) hour labor.

Failure code 217 25.

US & Canada – return propeller with claim.

International – Hold parts for inspection/disposal by a Marine Power International technical representative.