



# service bulletin

No. 98-7

## Propeller Failures and Guidelines – 6 thru 250

### Models Affected

MERCURY/MARINER  
6 thru 250

FORCE  
9.9 thru 120

ALL MERCURY MARINE PROPELLER COMPANY (MMPC) PROPELLERS

Mercury Marine propellers are manufactured and marketed by the Mercury Marine Propeller Company (MMPC).

Some propellers have failures that are due to defects in materials or workmanship which are covered under warranty terms. Others have failures caused by conditions beyond the control of Mercury Marine Propeller Company. Many propellers only need the hub replaced. All MMPC propellers carry a one year limited warranty against defects in materials and workmanship from the original date of sale. Following are the procedures and guidelines to follow when dealing with failed propellers.

### PROPELLER HUBS

#### Warranty

Replacement of round style rubber hub propellers due to factory defects in material or workmanship (hub not centered, tight spline, loose spline, etc.) is covered by the normal one year MMPC limited warranty.

Replacement of Flo-Torq II style propellers due to factory defects in material or workmanship (casting flaws, poor finish, etc.) is covered by the normal one year MMPC warranty.

#### Not Warranty

Replacement of spun propeller hubs due to impact, prop failed by entanglement with foreign material, improper previous hub replacement, etc., is not covered by MMPC warranty.

### Rehubbing Stainless Steel Propellers

Stainless steel propellers with round style rubber hubs that fail within the one-year warranty time period should be rehugged by an authorized propeller repair facility. Submit a properly completed warranty claim and a copy of the repair bill to the appropriate Mercury Marine warranty center.

Stainless steel propellers with the Flo-Torq II style hubs that fail within the one-year warranty time period should have the hub replaced. Failed Flo-Torq II style hubs must be returned to the appropriate Mercury Marine warranty center with a properly completed warranty claim.

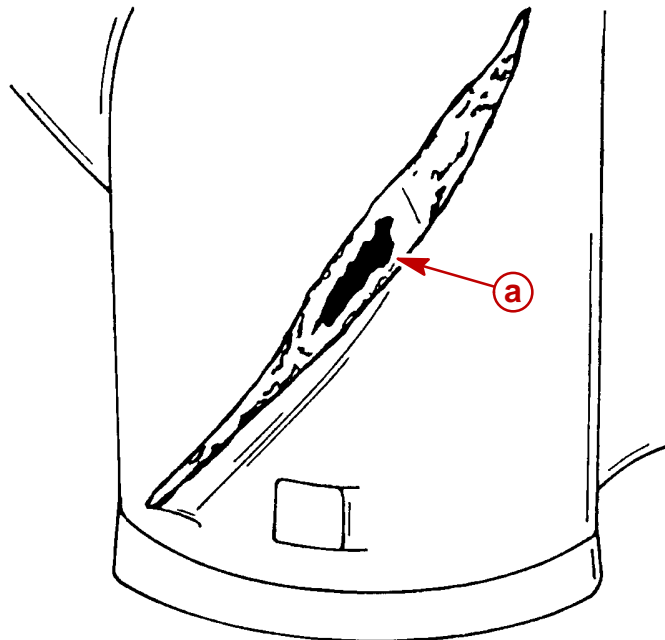
### Rehubbing Aluminum Propellers

The complete propeller should be replaced for aluminum propellers with round style rubber hubs that fail within the one-year limited warranty time period and show no evidence of impact.

The hub should be replaced for aluminum propellers with the Flo-Torq II style hubs that fail within the one-year limited warranty time period and show no evidence of impact. Failed Flo-Torq II style hubs must be returned to the appropriate Mercury Marine warranty center with a properly completed warranty claim.

## LOSS OF BLADE

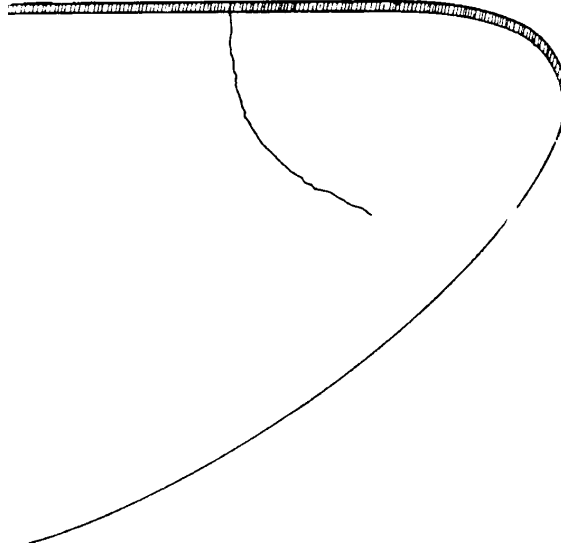
The illustration below shows a propeller with loss of blade. This failure is a result of a casting void (a). This represents a true defect in material.



## CRACKED BLADES

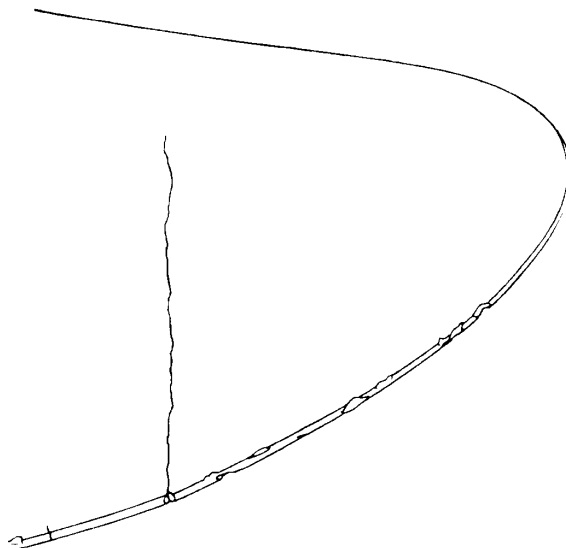
### Trailing Edge Blade Cracks

The illustration below shows a propeller blade with a blade failure. This failure is on the trailing edge and is a result of a fatigue crack. This type of fatigue failure starts at the trailing edge of the propeller blade and works its way to the leading edge. This type of failure can be caused by cup modifications, improper repairs, impacts, and blade flex. Blade flex is the only possible warrantable condition among the previously listed causes. Failure caused by cup modifications, improper repairs, or impacts are not covered by MMPC's limited warranty.



### Leading Edge Blade Cracks

The illustration below shows a propeller with a fracture line starting at the leading edge of the blade. Leading edge fatigue cracks are caused by impacts with objects in the water, often not even detected or observed by the boat operator. Small nicks on the leading edge, if left undressed, can cause fatigue cracks. Instructions for dressing small nicks on the leading edge are found in the MMPC Propeller Guidebook. Fatigue cracks starting on the leading edge are not covered by MMPC's limited warranty. The owner may wish to report this type of fatigue failure to a casualty insurer, as they are impact failures.



## WARRANTY

All MMPC propellers carry a one-year limited warranty against defects in materials and workmanship from the original date of sale. Submit a properly completed warranty claim and the propeller or repair bill to the appropriate Mercury Marine warranty center.

Claims for propellers that are sold with the engine require the engine serial number on the claim. Propellers sold loose require a copy of the bill of sale for the propeller purchased by the retail customer attached to the claim.

### USA

Submit all claims for propeller repair or replacement to the appropriate factory warranty location. All propellers and Flo-Torq II propeller hubs replaced under warranty must be returned to the appropriate factory warranty location with a copy of the warranty claim.

Outboard propeller claims are to be sent to:

Mercury Marine OB warranty  
W6250-22B Pioneer Road  
Fond Du Lac, WI 54935

Outboard Dealer Technical Service  
920-929-5884

MerCruiser propeller claims are to be sent to:

MerCruiser Products  
Warranty Receiving  
3003 North Perkins Road  
Stillwater, OK 74075

MerCruiser Dealer Technical Service  
405-743-6555

### Canada

Propeller claims and stainless steel propellers only are to be sent to:

Mercury Marine  
1156 Dundas Street East  
Mississauga, Ont. L4Y2C2

Mercury Marine Ltd. (Canada)  
905-270-4481

### International

Tag and hold parts for inspection/disposal by a Marine Power International technical representative.