

- Remove 4 bolts securing gear case to drive shaft housing.



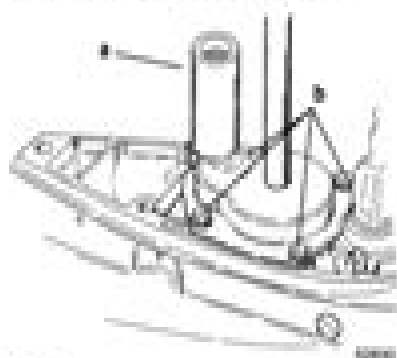
a - Bolt (4)

## Disassembly

### Water Pump

**NOTE:** If water tube seal remained in drive shaft housing, remove seal from housing and reinstall on water pump cover. Secure seal to cover with Loctite 403.

- Remove 4 bolts securing pump cover.



a - Bolt  
b - Bolt (4)

**NOTE:** Replace cover if thickness of steel at discharge slot is 0.060 in. (1.524mm) or less, or if grooves (other than impeller seating groove) in cover rib are more than 0.030 in. (0.762mm) deep.

- Remove cover, washer (above impeller), impeller, key and washer (below impeller).
- Remove cover gasket, base plate and base gasket.

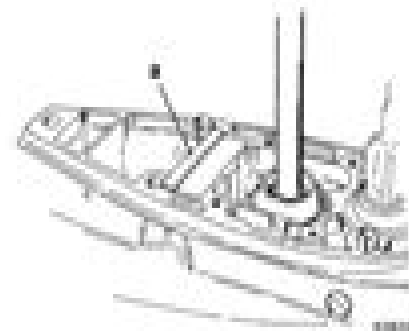


a - Cover  
b - Washer (above impeller)  
c - Impeller  
d - Key  
e - Washer (below impeller)  
f - Cover Gasket  
g - Base Plate  
h - Base Gasket

**NOTE:** Replace impeller if:

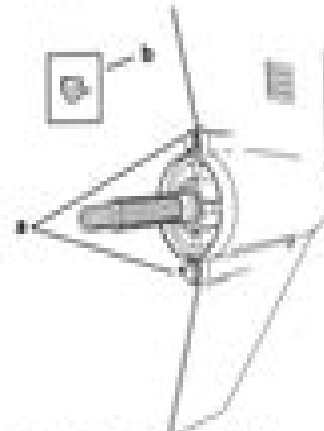
- Impeller blades are cracked, bent or worn.
- Impeller is pitted or melted.
- Rubber portion of impeller is not bonded to impeller hub.

- Remove and/or replace exhaust deflector plate if damaged.



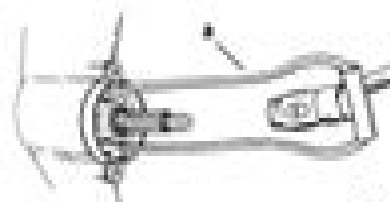
a - Deflector Plate

- Remove bearing carrier attaching bolts and locking tab washers or flat washers. Discard tab washers.



a - Bolts and Tab Washers or Flat Washers  
b - Tab Washers (Type I)

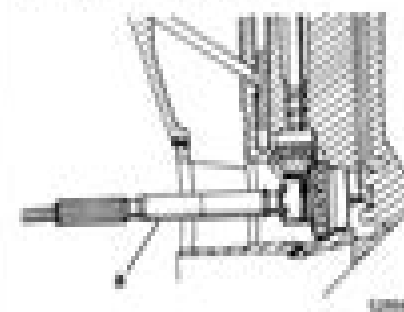
- Using Puller (91-27700), remove carrier assembly from gear case.



a - Puller (91-27700)

**NOTE:** When removing propeller shaft assembly, cam follower may dislodge. Retrieve follower from gear housing.

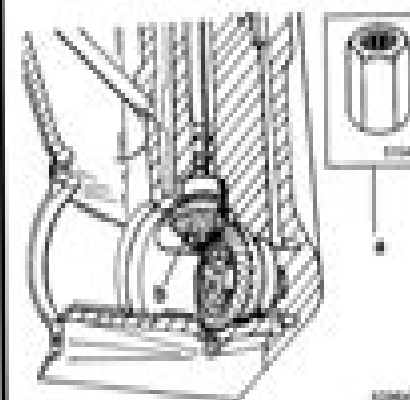
- Remove propeller shaft assembly.



a - Propeller Shaft

Model	Drive Shaft Holding Tool
25, 40/50 (4-Stroke)	91-82180M
Force 40/50	91-825100
30/40, 40/50	91-825100

- Remove pinion nut and discard.



a - Drive Shaft Holding Tool  
b - Pinion Nut

- Remove drive shaft assembly and pinion gear.

# Mercury Elpto Service Manual

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## **Table of Contents Mercury Elpto Service Manual**

1. Understanding the eBook Mercury Elpto Service Manual
  - The Rise of Digital Reading Mercury Elpto Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mercury Elpto Service Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mercury Elpto Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mercury Elpto Service Manual
  - Personalized Recommendations
  - Mercury Elpto Service Manual User Reviews and Ratings

- Mercury Elpto Service Manual and Bestseller Lists
- 5. Accessing Mercury Elpto Service Manual Free and Paid eBooks
  - Mercury Elpto Service Manual Public Domain eBooks
  - Mercury Elpto Service Manual eBook Subscription Services
  - Mercury Elpto Service Manual Budget-Friendly Options
- 6. Navigating Mercury Elpto Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Mercury Elpto Service Manual Compatibility with Devices
  - Mercury Elpto Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mercury Elpto Service Manual
  - Highlighting and Note-Taking Mercury Elpto Service Manual
  - Interactive Elements Mercury Elpto Service Manual
- 8. Staying Engaged with Mercury Elpto Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mercury Elpto Service Manual
- 9. Balancing eBooks and Physical Books Mercury Elpto Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mercury Elpto Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mercury Elpto Service Manual
  - Setting Reading Goals Mercury Elpto Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mercury Elpto Service Manual
  - Fact-Checking eBook Content of Mercury Elpto Service Manual
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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