

WARRANTY INFORMATION

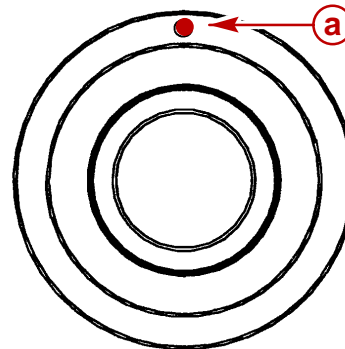
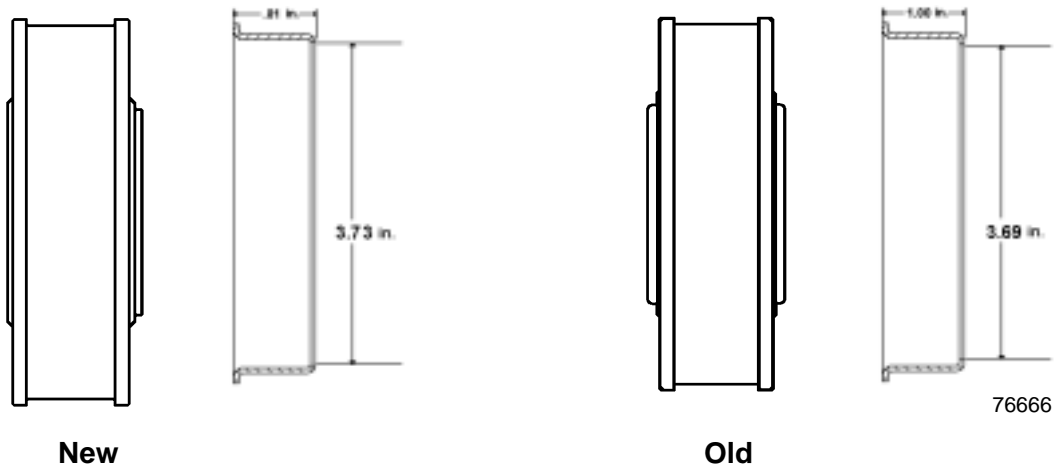
SERVICE INFORMATION

When replacing a current Bravo Drive with a Bravo One X / Two X / Three X, Bravo One XR Drive a Magnum or Hi-Performance Transom must be used.

Problem

The gimbal bearing inner race thickness has changed to accommodate the larger U-Joint used in the X, XZ and XR Bravo drives. If an X, XZ or XR drive is installed on a transom with the thicker gimbal bearing, interference will occur between the U-Joint and the bearing. Either one or both components will fail.

Identification



a - Red Dot

76667

Inspection

1. Remove sterndrive unit.
2. Inspect gimbal bearing for red dot. If gimbal bearing has a red dot in the location specified previously, you do not need to replace the bearing. If the indentation is not painted, proceed with the following instructions.

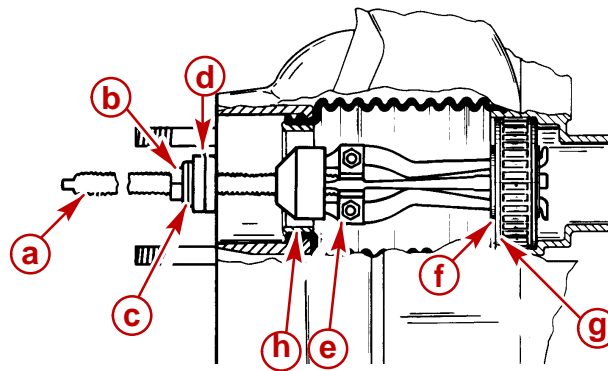
Removal

IMPORTANT: Gimbal bearing and cartridge are a matched set and must be replaced as an assembly. Tolerance ring must be replaced any time gimbal bearing is removed.

⚠ CAUTION

Do not remove gimbal bearing unless replacement is necessary, as damage to bearing may result during removal.

1. Remove gimbal bearing assembly and sleeve.

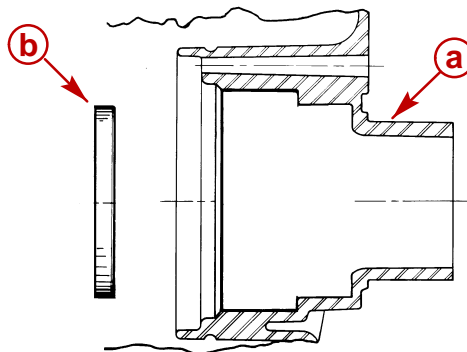


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- a** - * Puller Shaft
- b** - * Nut
- c** - * Washer
- d** - 3 Plates
- e** - 3 Jaw Puller
- f** - Gimbal Bearing Inner Race
- g** - Gimbal Bearing Cartridge
- h** - Bellows Sleeve

* From Bearing Removal and Installation Tool 91-31229A7

2. Remove and discard grease seal using a slide hammer.

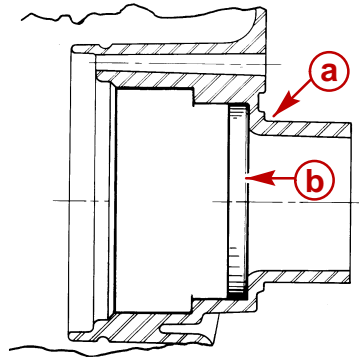


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- a** - Gimbal Housing
- b** - Grease Seal

Installation

1. Install a new grease seal using a suitable mandrel.



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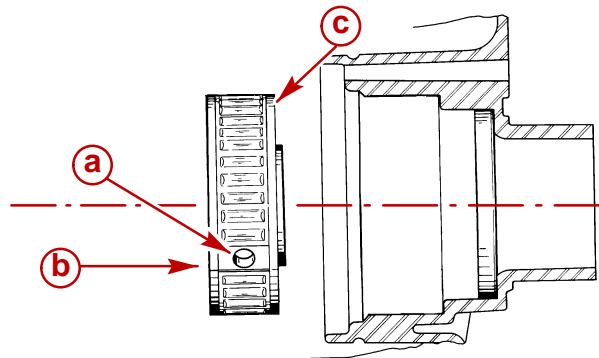
- a - Gimbal Housing
- b - Grease Seal

2. Install and position new tolerance ring.
3. Align opening in tolerance ring with grease hole in gimbal bearing cartridge.

IMPORTANT: Red dot on gimbal bearing cartridge must be positioned at top.

IMPORTANT: Ensure that notched edge of bearing cartridge faces inward in bore.

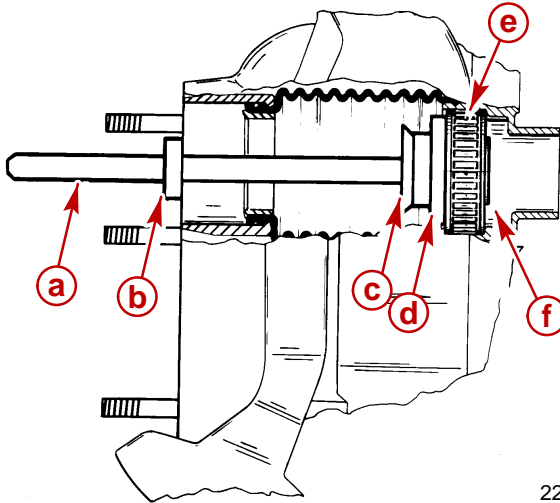
4. Align gimbal bearing cartridge grease hole and tolerance ring opening with grease cavity hole in gimbal housing.



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- a - Gimbal Bearing Cartridge Grease Hole
- b - Tolerance Ring Opening
- c - Gimbal Bearing Cartridge Notch - Face Inward

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5. Install gimbal bearing, using hammer and tools shown. Make sure gimbal bearing cartridge seats in gimbal housing.



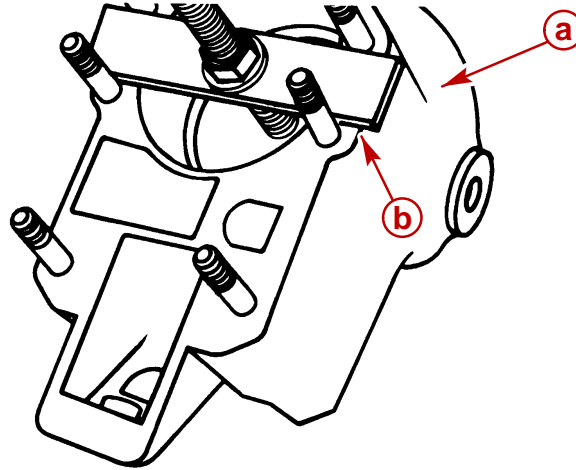
- a** - *Drive Rod
- b** - *Plate
- c** - *Drive Head
- d** - *Mandrel
- e** - Gimbal Bearing Assembly
- f** - Chamfer

* From Bearing Removal and Installation Tool 91-31229A7

Bellows Sleeve

Removal

1. Spray engine cleaner around edge of bellows sleeve and remove with U-joint bellows sleeve removal tool.

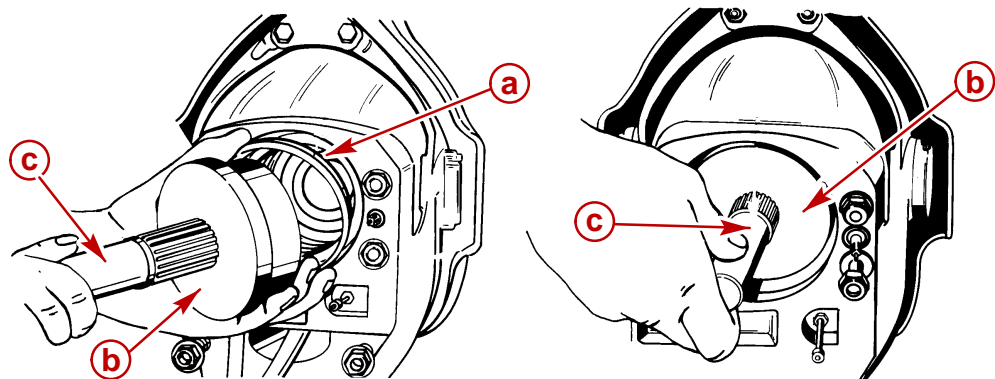


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- a** - Bell Housing
- b** - U-joint Bellows Sleeve Removal Tool

Installation

1. Lubricate sleeve outside diameter (O.D.) with soap and water or engine cleaner and install using U-joint bellows retention sleeve installation tool and a suitable driving rod.



50327

- a** - Sleeve
- b** - U-joint Bellows Retention Sleeve Installation Tool
- c** - Suitable Driving Rod

Sterndrive Gimbal Bearing Installation Kit

Bearing kit containing the red dot bearing and correct sleeve **P/N 30-862540A2**

Parts List

Qty.	Description	Part Number
1	Tilt Limit Spacer Kit	15768A3
1	Gimbal Bearing	30-862540A1
1	Bellows Sleeve	862209
1	Tolerance Ring	61075
1	Grease Seal	26-88416

Special Tools

Description	Part Number
3 Jaw Puller (From Slide Hammer)	91-34569A1
Hex Nut	11-24156
Puller Plates (3)	91-29310
Threaded Rod	91-31229
U-joint Bellows Sleeve Removal Tool	91-862546
U-joint Bellows Retention Sleeve Installation Tool	91-818162
Washer	12-34961
Spanner Wrench	91-821709T
Mandrel	91-30366
Drive Head	91-32325
Drive Rod	91-37323