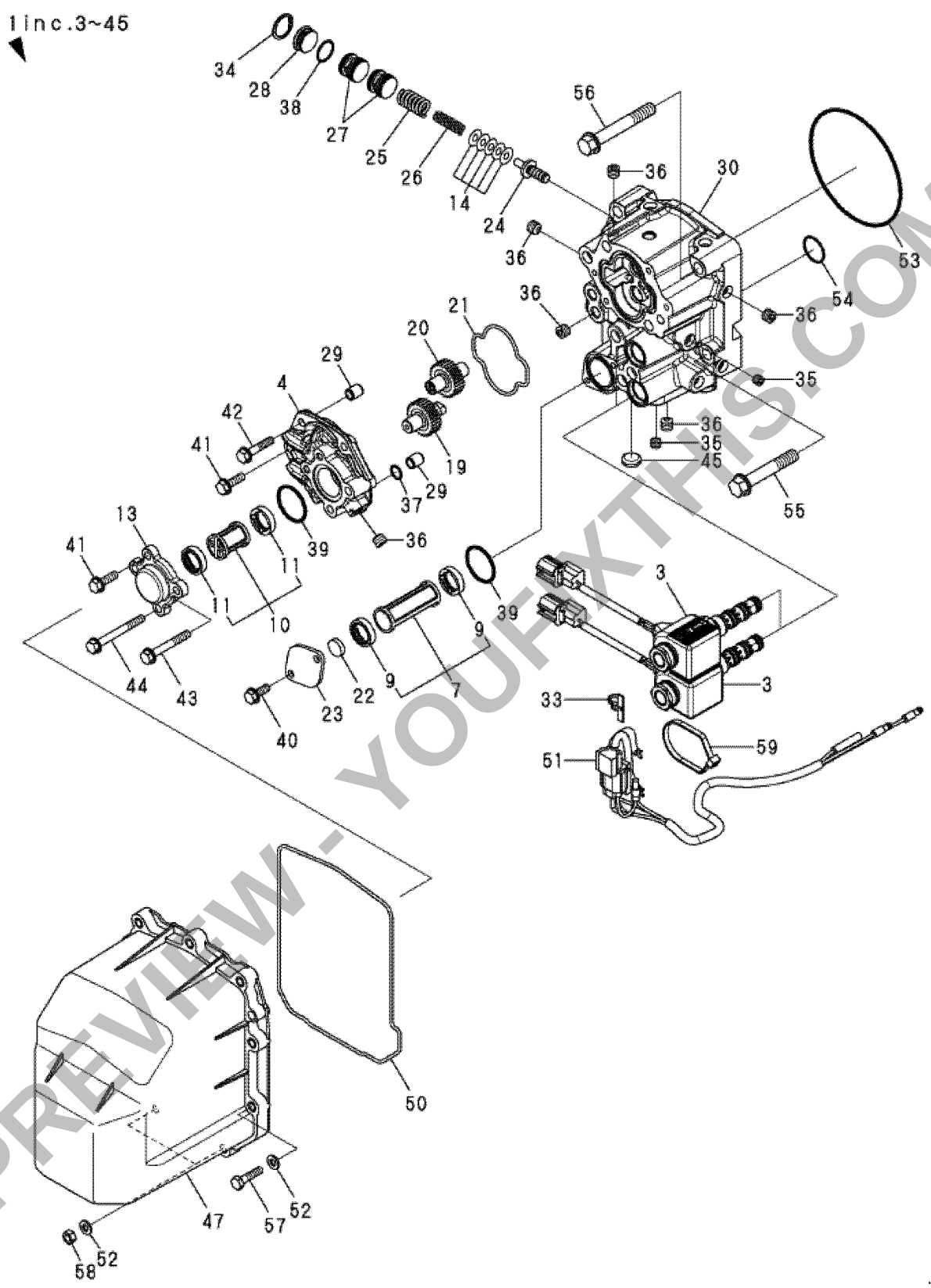
Item	Part Number	Description	Quantity
1	196350-02800	Case Plate Set	1
3	196350-02422	Filter Assy	1
5	196350-02441	Rubber	2
6	196350-02750	Shim 15/6 Assy	1
11	196350-02820	HOP Drive Gear	1
12	196350-02830	HOP Driven Gear	1
13	196350-02850	Gasket	1
14	196350-02870	Magnet	1
15	196350-02880	Filter Cover	1
16	196350-02900	Valve	1
17	196350-02910	Spring Out	1
18	196350-02920	Spring In	1
19	196350-02930	Valve	2
20	196350-02940	Spacer	1
21	196350-02950	Pin	2
22	196350-06010	Case Plate CMP	1
25	196350-06020	Cover HOP	1
28	196350-06200	Valve Shift	1
29	196350-06210	Valve Spool	1
30	196350-06220	Sleeve	1
31	196350-06250	Support	1
32	196350-06260	Washer	1
33	196350-06270	Spool Cover	1
34	196350-06280	Spacer	1
35	196350-06290	Spring	1
36	196350-06300	Spring	1
37	196350-06330	Follow Pin	1
38	196350-06370	Shift Lever Cam	1

Item	Part Number	Description	Quantity
39	24190-080001	Ball 1/4	1
40	24311-000080	O-Ring P-8	1
41	24321-000300	O-Ring G-30	1
42	24550-012150	Bush 12 x 15	1
43	26106-060202	Bolt 6 x 20	2
44	22252-000220	Circlip 22	1
45	23490-120002	Plug 12	1
46	23876-010000	Plug PT1/8	14
47	24311-000160	O-Ring p-16	1
48	24341-000300	O-Ring S-30	1
49	26106-060162	Bolt 6 x 16	2
50	26106-060202	Bolt 6 x 20	3
51	26106-060302	Bolt 6 x 30	1
52	26106-060352	Bolt 6 x 35	1
53	26106-060452	Bolt 6 x 45	1
54	27243-160000	Plug 16	1
56	196350-02961	Case Plate Cover	1
59	196350-02990	Gasket	1
61	196350-06130	Slider Pin	1
62	196350-06140	Slider	1
63	22417-160100	Cotter Pin	1
64	22133-060000	Washer 6	9
65	24321-001050	O-Ring G-105	1
66	24341-000220	O-Ring S-22	1
67	26106-100602	Bolt M10 x 60	2
68	26106-100702	Bolt M10 x 70	2
69	26113-060252	Bolt M6 x 25	7
70	26713-060002	Nut M6	2

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Case Plate and Shifter (Electric)



0006684

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No.	Tool Name	Part Number	Illustration
33	GUIDE (CLUTCH SHAFT)	196350-92560	 0006896

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13. Disassemble the gimbal ring, as shown in **Figure 8-22**.

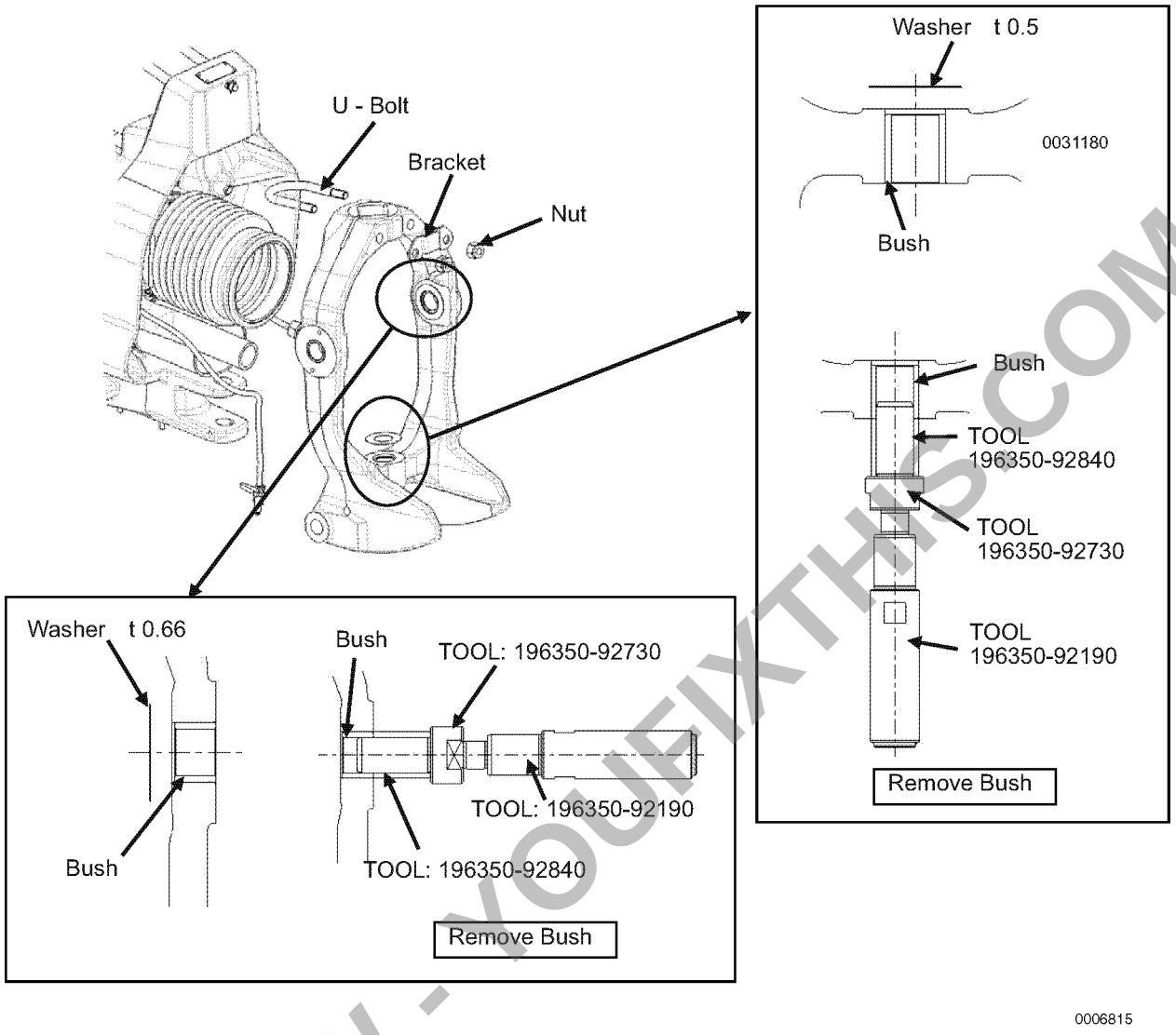


Figure 8-22

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INSTALLATION OF STEERING CABLE

When installing the steering cable **(Figure 10-3, (6))** between the rotary or rack helm **(Figure 10-3, (1))** and the steering lever of the stern drive **(Figure 10-3, (5))**, use the following specifications:

- NEVER exceed a 20 cm (8 in.) radius bend in the cable **(Figure 10-3, (2))**.
- Keep +/- 25 mm (1 in.) free motion of cable and power steering valve **(Figure 10-3, (3))** and be sure to prevent any interferences with other objects.
- NEVER tie down or clamp the steering cable within 90 cm (3 ft) of the power steering cylinder **(Figure 10-3, (4))**.

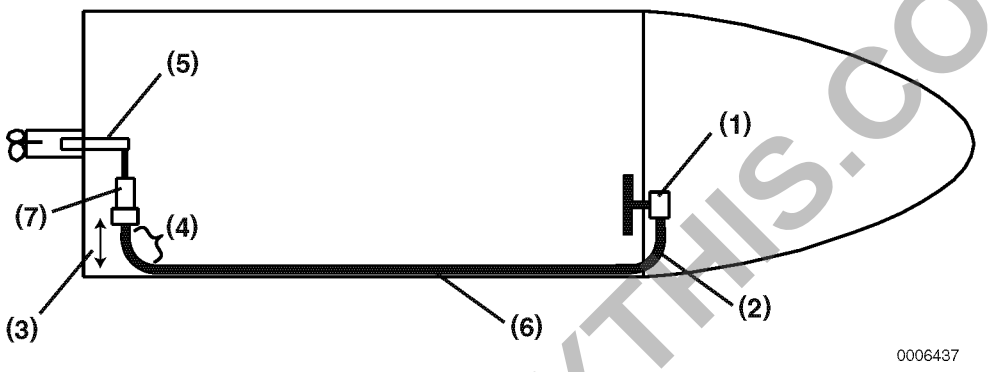


Figure 10-3

1 – Rotary or Rack Helm
2 – Minimum 20 cm (8 in.) bend radius
3 – +/- 25 mm (1 in.) free motion of cable housing and power steering valve
4 – NEVER tie down or clamp within 90 cm (3 ft) of the power steering cylinder.
5 – Steering Lever
6 – Steering Cable
7 – Power Steering Cylinder

WARNING! ***Loss of Control Hazard. Be sure the steering cable is correctly installed. Verify that all cable bends, free motion of cable housing and restraints of the cable are within specifications. Incorrect installation of the steering cable could result in erratic or loss of steering.***

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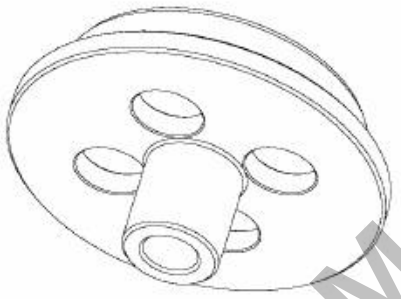
DRIVESHAFT HOUSING AND GEAR HOUSING ASSEMBLY

Perform the driveshaft housing to gear housing assembly in the reverse order of disassembly with the following notes.

- During assembly, apply liquid gasket (seawater resistance) Three Bond® 1101 or equivalent to bolt thread.
- After installation, torque the driveshaft housing mounting nuts to 33 to 37 N·m (292 to 327 lb-in.).

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No.	Tool Name	Part Number	Illustration
21	SLEEVE (UJ BELLOWS)	196350-92390	

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STERN DRIVE REMOVAL FROM TRANSOM ASSEMBLY

Before removing the stern drive:

- Disconnect the shift harness, or shift cable from the shift plate.
- Close the oil valve.
- Disconnect the quick connector from the oil tank hose.
- Disconnect all other electrical connections, such as the YCaPS, trim limit and sender wires, etc.

1. Remove the speedometer hose and adaptor, as shown in **Figure 5-2**.

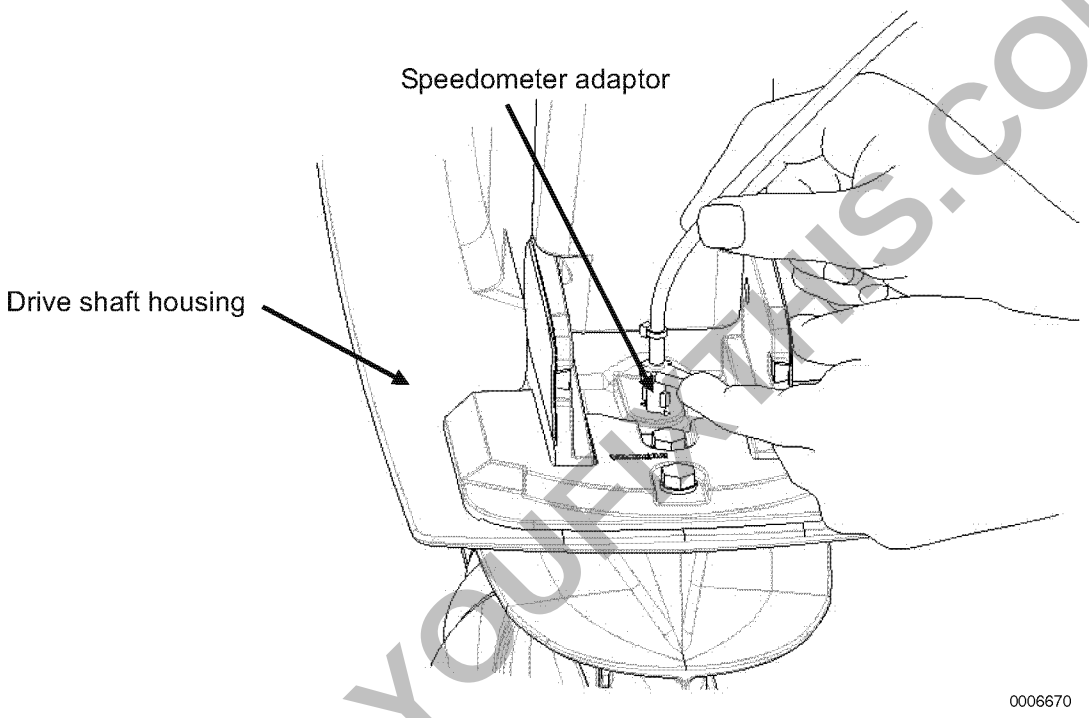


Figure 5-2

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6. Disconnect the oil reservoir hose connector **(Figure 5-6, (1))**. Drain the oil from oil reservoir and air separator **(Figure 5-6, (2))** into an approved container.

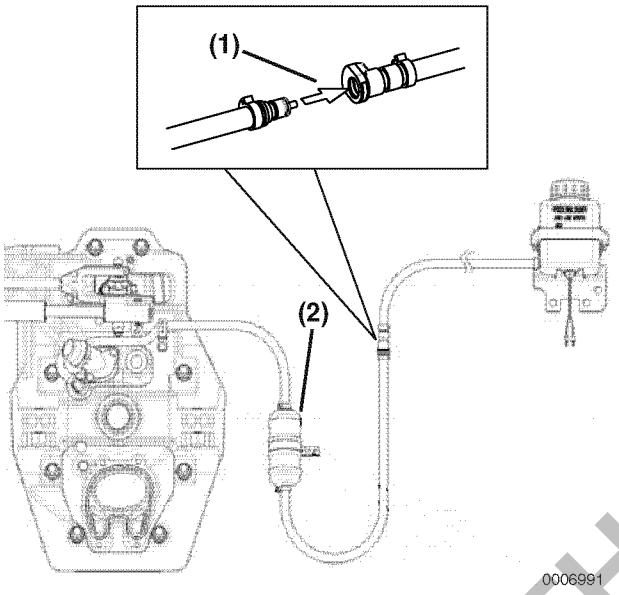


Figure 5-6

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SAFETY PRECAUTIONS

There is no substitute for common sense and careful practices. Improper practices or carelessness can cause burns, cuts, mutilation, asphyxiation, other bodily injury or death. This information contains general safety precautions and guidelines that must be followed to reduce risk to personal safety. Special safety precautions are listed in specific procedures. Read and understand all of the safety precautions before operating or performing repairs or maintenance.

⚠ DANGER



The safety messages that follow have DANGER level hazards.

NEVER permit anyone to install or operate the stern drive without proper training.

- Read and understand this *Service Manual* before operating or servicing the stern drive to ensure that safe operating practices and maintenance procedures are followed.

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SAFETY PRECAUTIONS

Before servicing the stern drive, review *Safety on page 2-1*.

INTRODUCTION

This section of the *Service Manual* describes the procedures for proper care and maintenance of the stern drive.

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DRIVESHAFT HOUSING PART DIAGRAMS

Driveshaft Housing and Drive Gear

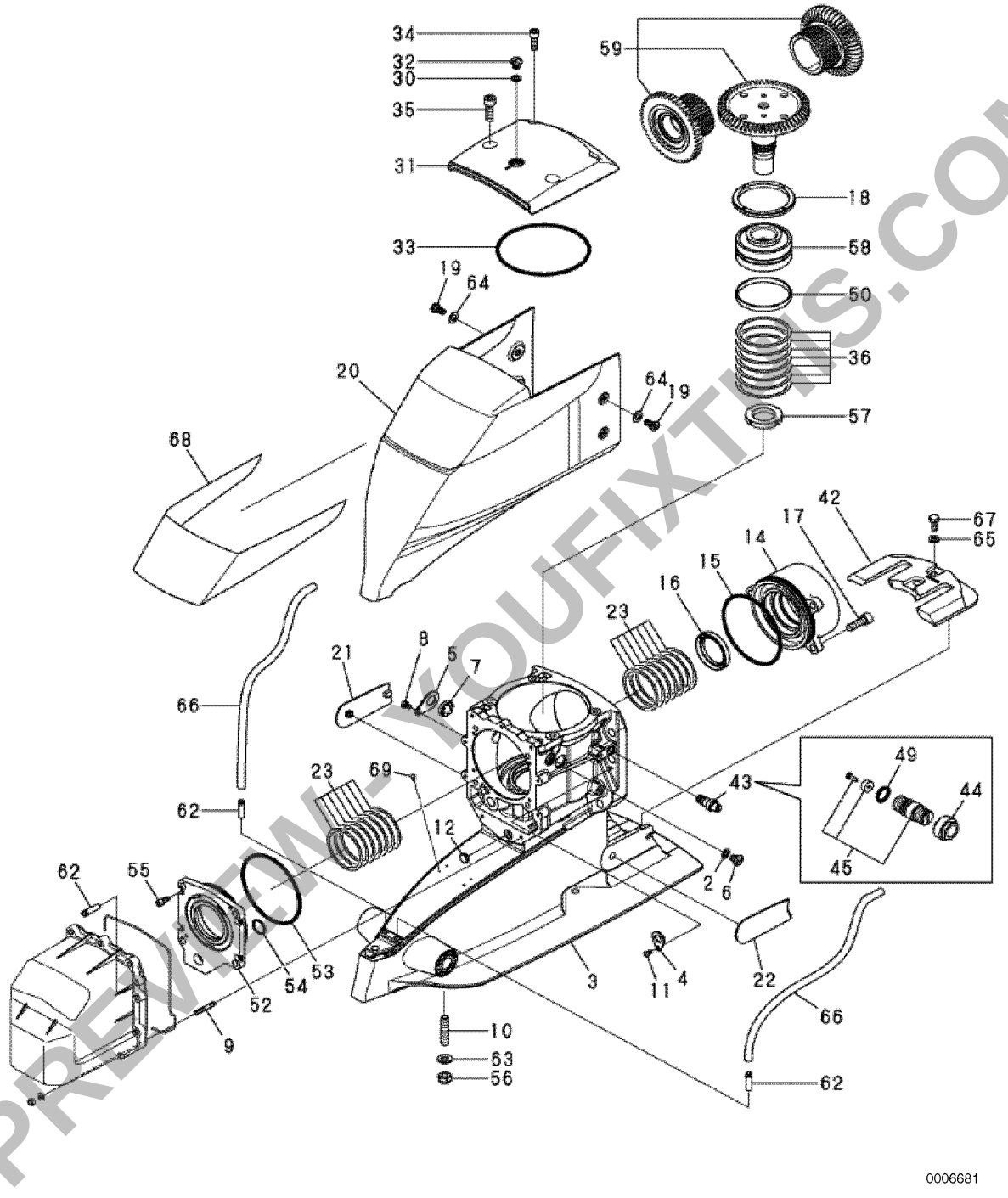


Figure 6-3

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GEAR HOUSING PART DIAGRAMS

Gear Housing Assembly

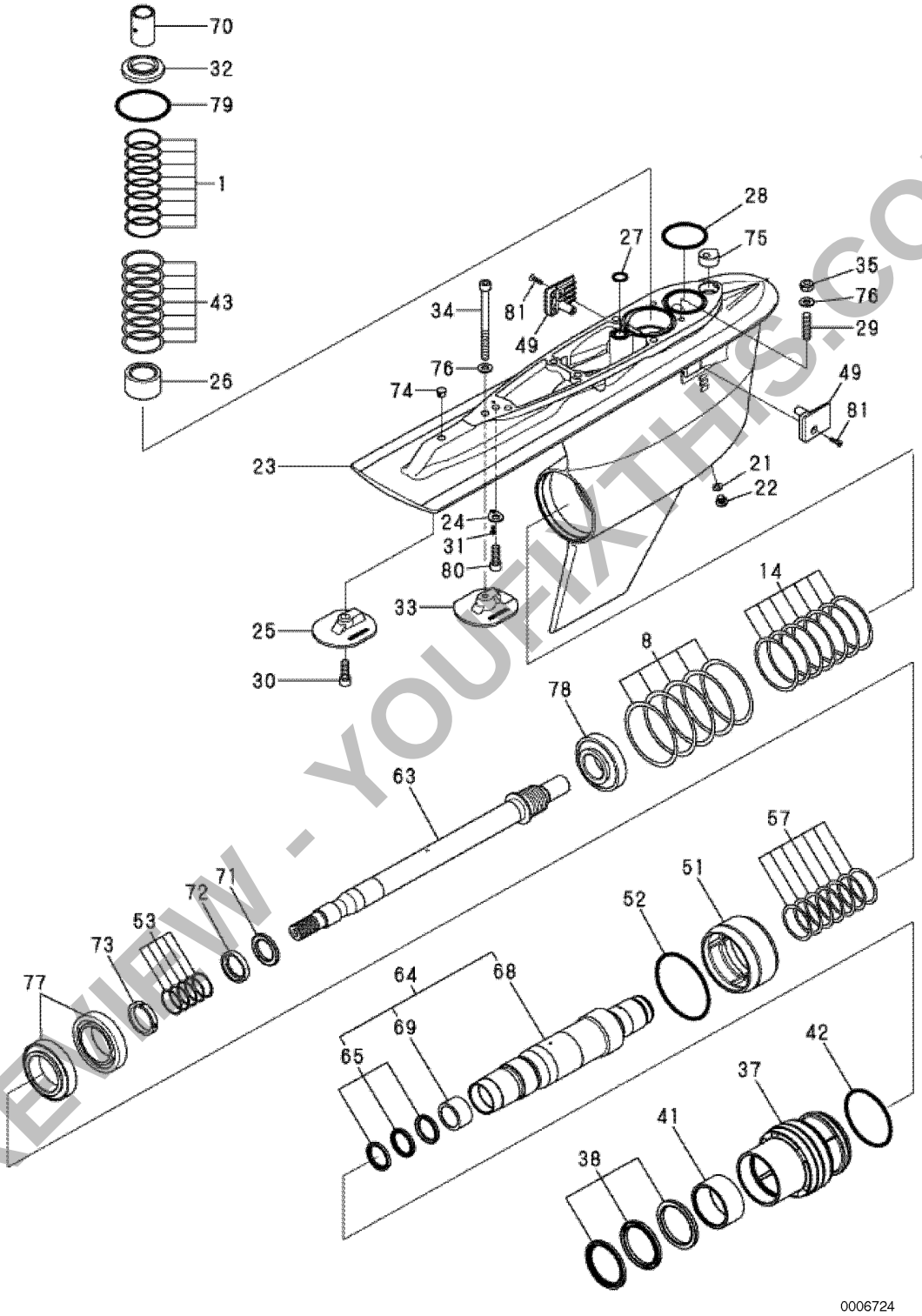


Figure 7-3

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8. Check gear backlash as follows.

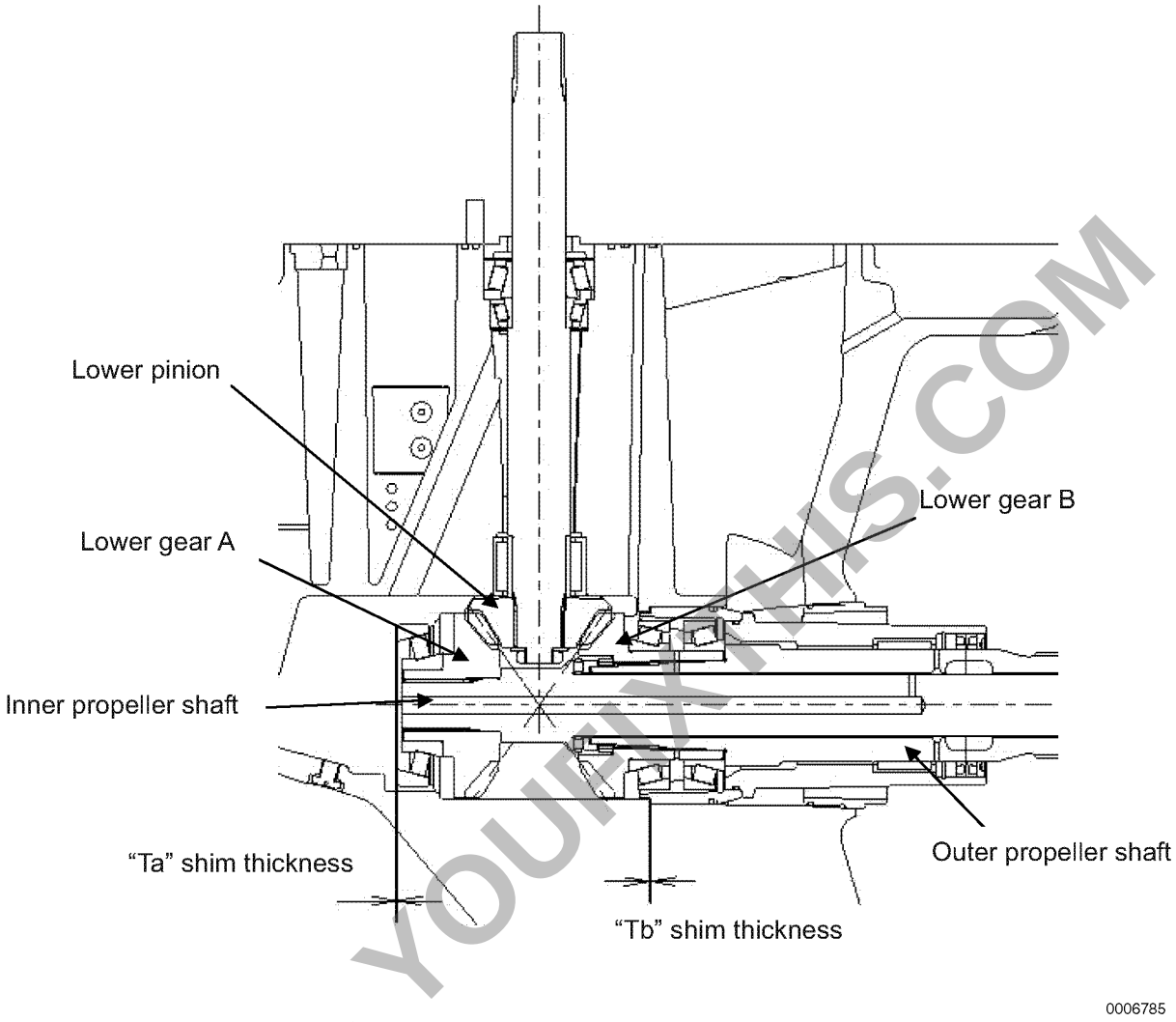


Figure 7-67

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5. Install the rubber seal and O-ring, as shown in **Figure 8-35**.

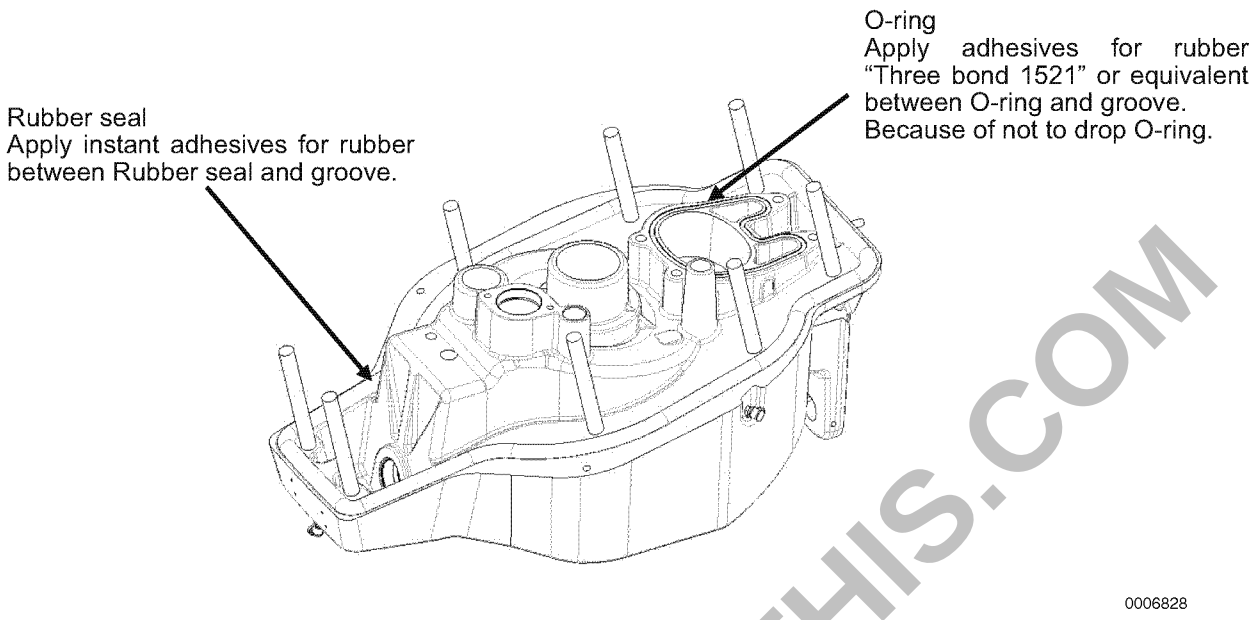


Figure 8-35

6. Install the dry bushing and oil seal for the steering shaft, as shown in **Figure 8-36**.

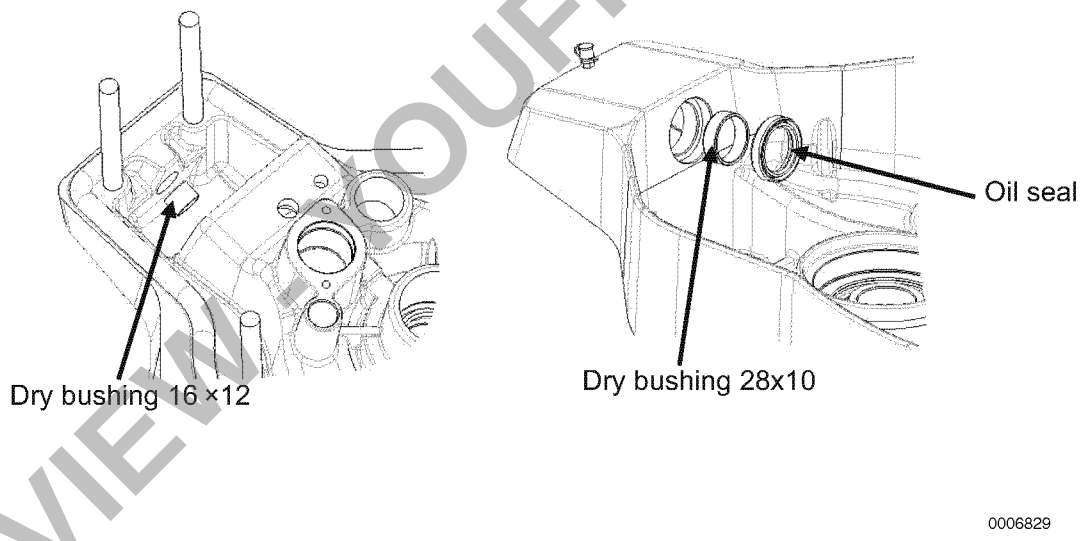


Figure 8-36

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8. Bend the locking washer tabs against the corresponding flats on the bolt heads.

Note: It may be necessary to tighten the pivot bolts a little more to align the flats on bolt head with the tabs on the washer.

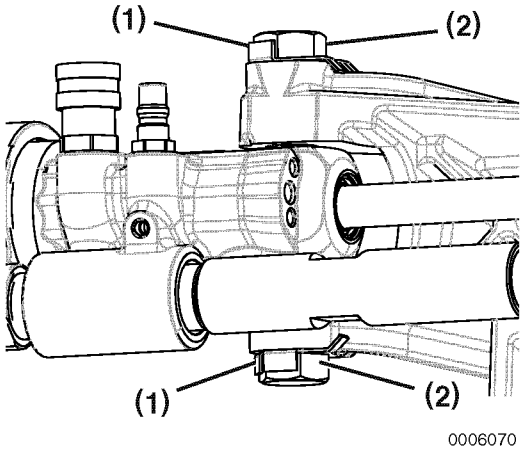


Figure 10-8

1 – Bent Tab
2 – Pivot Bolt

9. **WARNING!** ***Exposure Hazard. Moving the spool barrel cable guide tube with the hoses disconnected will leak fluid from the ports. Wear eye protection to avoid injury.***

   Move the spool barrel cable guide tube in the directions shown in **Figure 10-9**. It will be less difficult to pull it out or push it in during the following installation steps.

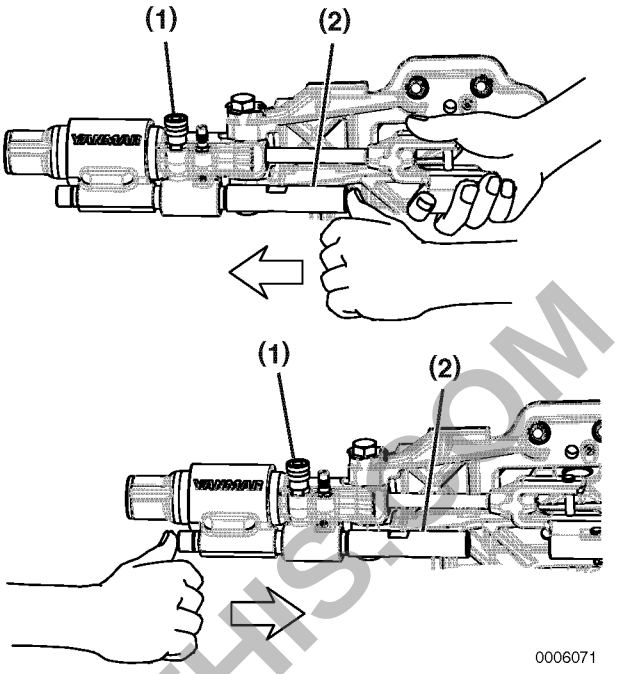


Figure 10-9

1 – Port
2 – Spool Barrel Cable Guide Tube

10. Connect the clevis to the steering lever.
11. Lubricate the clevis pin. Spread both ends of the clevis pin.

    Note: Insert the clevis pin from the top and rotate the pin to ensure that the cotter pin hole is as shown in **Figure 10-10**.

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