ENGINE REMOVAL

HOOD, PANELS, INSTRUMENT PANEL AND INSTRUMENT CLUSTER

Removal and Installation

[1]

Park the machine on hard, level ground. Apply the parking brake and stop the engine. Put blocks in front of and behind the rear wheels.

[2]

Disconnect the battery, negative (−) terminal first.

NOTE : *For Installation, install and tighten the positive (+) terminal first.*

[3]

Raise the hood and remove the side panels (1).

[4]

Remove nut (2) and remove the hood (3).

NOTE: *For Installation, tighten nut (2) and then back the nut off ¼ of a turn.*

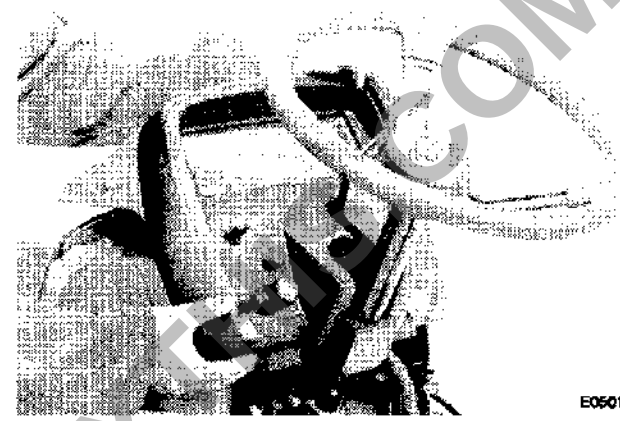
[5]

Remove bolts (4), disconnect the headlamps connectors from the front grille and remove the front grille (5).

[6]

Remove screws (6) and remove cover (7).

[7]



Remove the instrument cluster retaining screws and raise the instrument cluster slightly. Disconnect the tachometer cable and the engine harness. Remove the instrument cluster.

[8]

Remove the bolts (8 and 9) and remove the steering column cover (10).

NOTE: *For Installation, follow the same procedure in reverse order.*

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TROUBLESHOOTING THE POWER STEERING

Before continuing, check the following:
1. Hydraulic oil level.
2. Hydraulic filter (must be new or clean).

Flow and pressure test the steering pump. **See Page 239.** Does the pump meet specifications?

YES
Leak test the steering cylinder. See Page 8. Is the cylinder good?

NO
Repair or replace the steering pump. See the repair section in the service manual.

YES
Check the relief valve in the steering unit. See the repair section in the repair manual. Is the relief valve good?

NO
Repair or replace the steering cylinder. See the repair section in the service manual.

YES
Check the steering valve for damaged parts. See the repair section in the service manual.

NO
Adjust, repair, or replace the relief valve.

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WARNING: *Always use heat protective gloves when handling heated parts.*

CAUTION : *Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.*

CAUTION : *Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection. If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately. Maintain all hoses and tubes in good condition. Make sure all connections are tight. Make a replacement of any tube or hose that is damaged or thought to be damaged. DO NOT use your hand to check for leaks, use a piece of cardboard or wood.*

CAUTION : *When removing hardened pins such as a pivot pin or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and use a steel hammer.*

CAUTION : *When using a hammer to remove and install pivot pins or seperate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protection).*

CAUTION : *Use suitable floor (service) jacks or chain hoists to raise wheels off the floor. Always block machine in place with suitable safety stands.*

CAUTION : *When servicing or repairing the machine. Keep the shop floor and operator's compartment and steps free of oil, water, grease, tools etc. Use an oil absorbing material and or shop cloths as required. Use safe practices at all times.*

CAUTION : *Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in this Service Manual.*

DANGER : *Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust tube extension. Open the doors and get outside air into the area.*

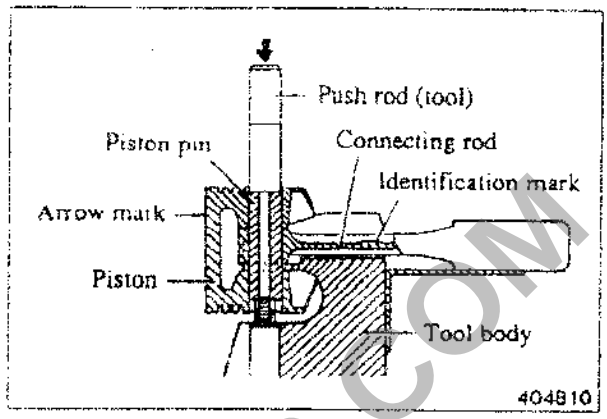
DANGER : *When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery or (2), you try to jump start and run the engine. To prevent battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions you or others in the area can be injured.*

DANGER : *Batteries contain acid and explosive gas. Explosions can result from sparks, flames or wrong cable connections. To connect the jumper cables correctly to the battery of this machine refer to the Operators Manual. Failure to follow these instructions can cause serious injury or death.*

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(2) Insert the push rod of the tool into the bore in the piston for the piston pin and, using an arbor press, remove the piston pin.

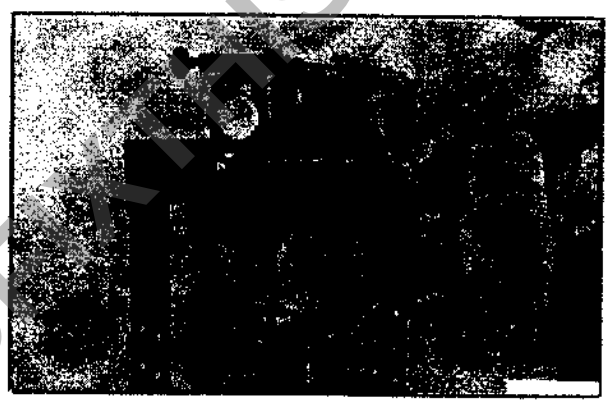
(3) Use this Piston Pin Setting Tool to install the connecting rod to the piston.



Removing piston pin (1)

⚠ CAUTION

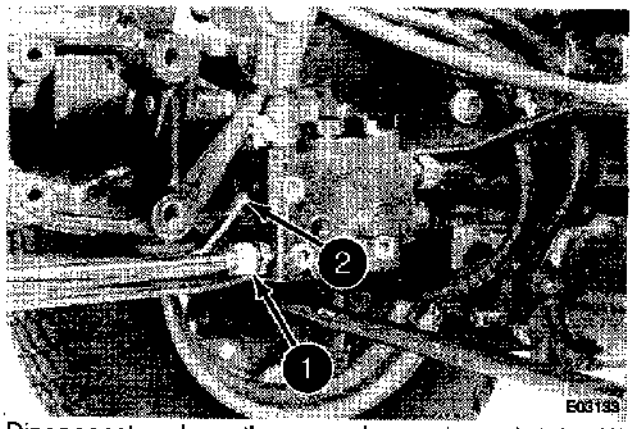
Do not attempt to remove the piston pin by tapping. Replace a piston pin which needs a greater force for removal.



Removing piston pin (2)

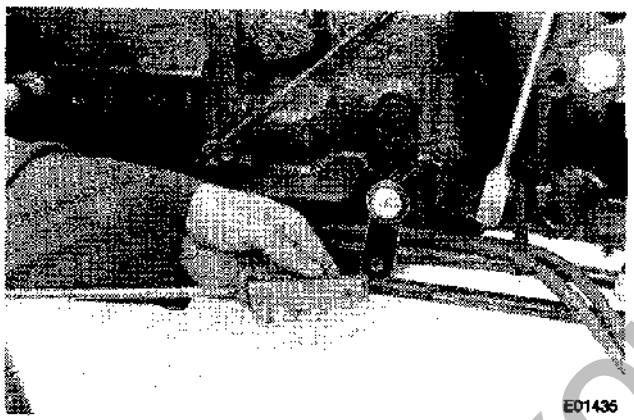
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[9]



Disconnect and cap the power beyond supply tube (1) and return tube (2).

[10]



Disconnect the right hand brake linkage.

NOTE: *For Installation, adjust the brake linkage, refer to Section 8.*

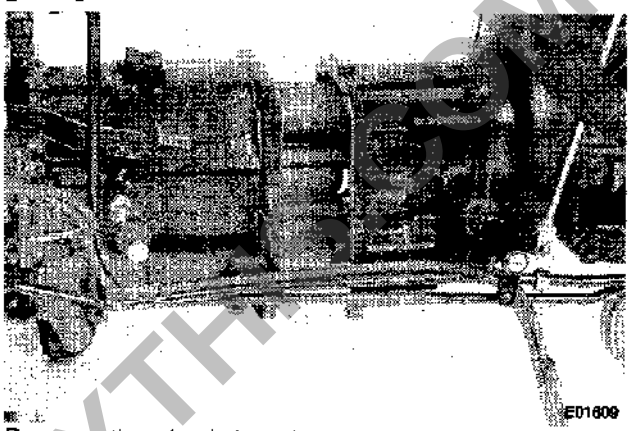
[11]

Put wooden wedges between the front axle and the front bolster.

[12]

Support the tractor on suitable splitting stands.

[13]



Remove the clutch housing to transmission retaining bolts and carefully separate the tractor.

[14]

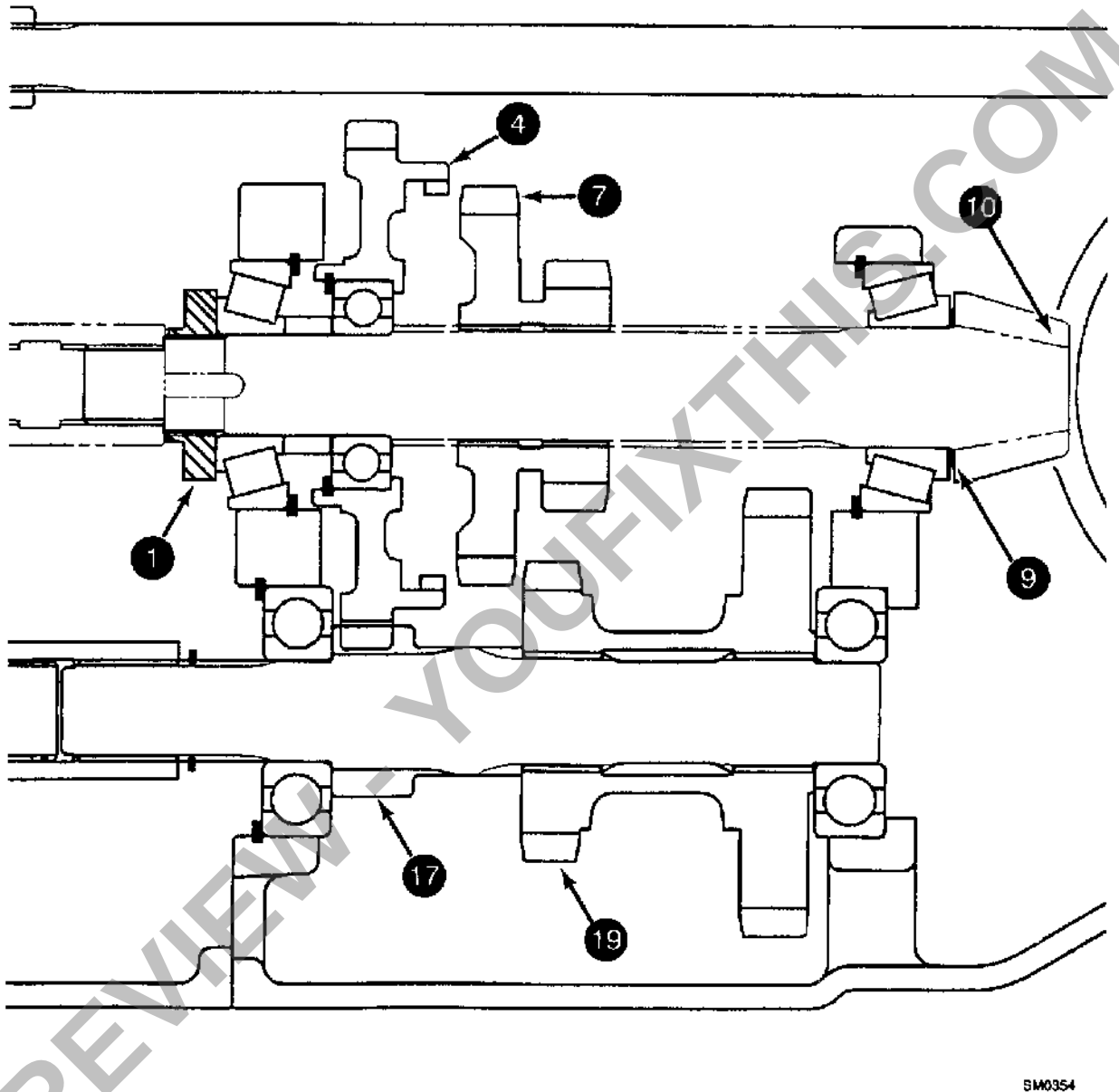
Support the two halves of the tractor on suitable stands.

NOTE: *For Installation apply a continuous bead of Loctite 515 to the range transmission mounting face.*

NOTE: *For Installation, follow the same procedure in reverse order.*

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Cross Sectional Drawing of the Range Transmission (723 * and 727 *)

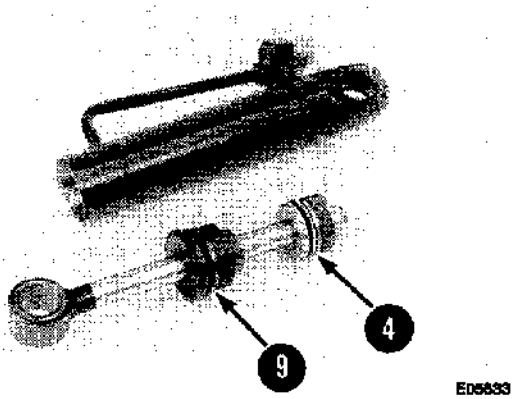


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1. NUT
4. GEAR
7 GEAR
9. SHIM
10. PINION
17. SHAFT
19. GEAR

Disassembly and Assembly

[1]

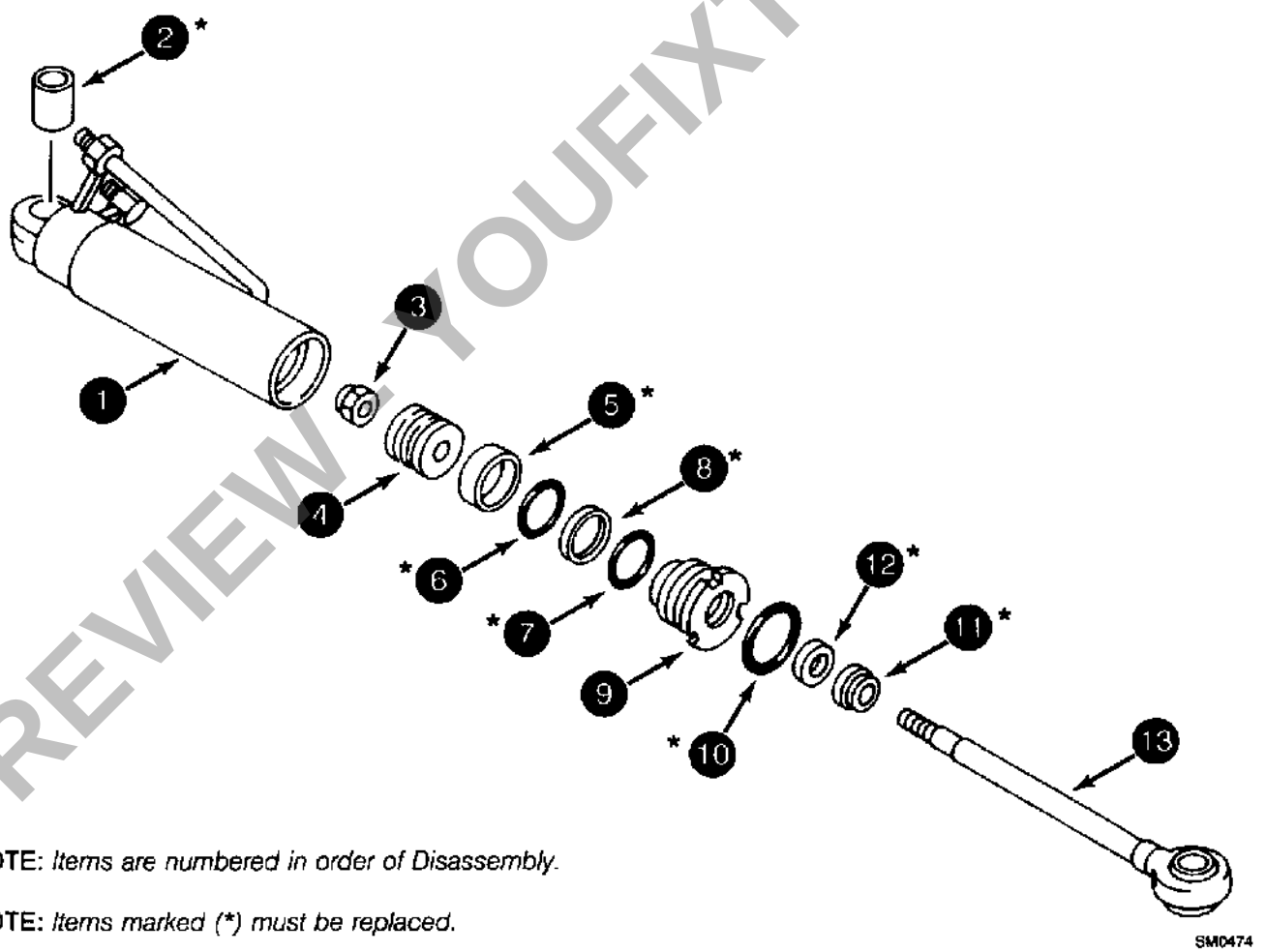


Screw out the end cap (9) and remove the piston (4) from the cylinder.

[2]

Remove items (1 to 13).

NOTE : *For Assembly, follow the same procedure in reverse order.*



NOTE: *Items are numbered in order of Disassembly.*

NOTE: *Items marked (*) must be replaced.*

1. CYLINDER
2. BUSHING
3. NUT
4. PISTON
5. WEAR RING
6. O-RING
7. O-RING
8. RING
9. CAP
10. O-RING
11. SEAL
12. SEAL
13. ROD

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HOOD, PANELS, INSTRUMENT PANEL AND INSTRUMENT CLUSTER

Removal and Installation

[1]

Park the machine on hard, level ground. Apply the parking brake and stop the engine. Put blocks in front of and behind the rear wheels.

[2]

Disconnect the battery, negative (−) terminal first.

NOTE : *For Installation, install and tighten the positive (+) terminal first.*

[3]

Raise the hood and remove the side panels (1).

[4]

Remove nut (2) and remove the hood (3).

NOTE: *For Installation, tighten nut (2) and then back the nut off ¼ of a turn.*

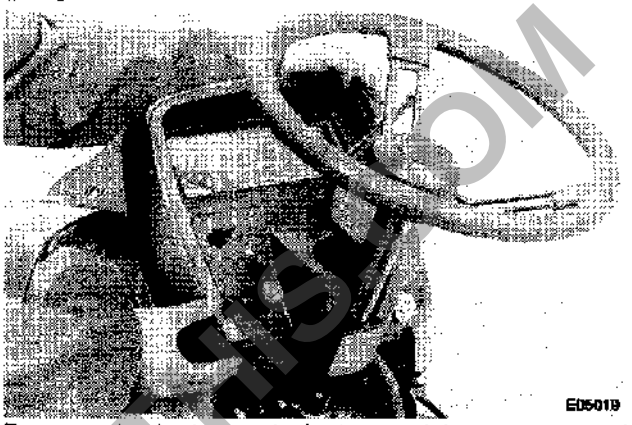
[5]

Remove bolts (4), disconnect the headlamps connectors from the front grille and remove the front grille (5).

[6]

Remove screws (6) and remove cover (7).

[7]



Remove the instrument cluster retaining screws and raise the instrument cluster slightly. Disconnect the tachometer cable and the engine harness. Remove the instrument cluster.

[8]

Remove the bolts (8 and 9) and remove the steering column cover (10).

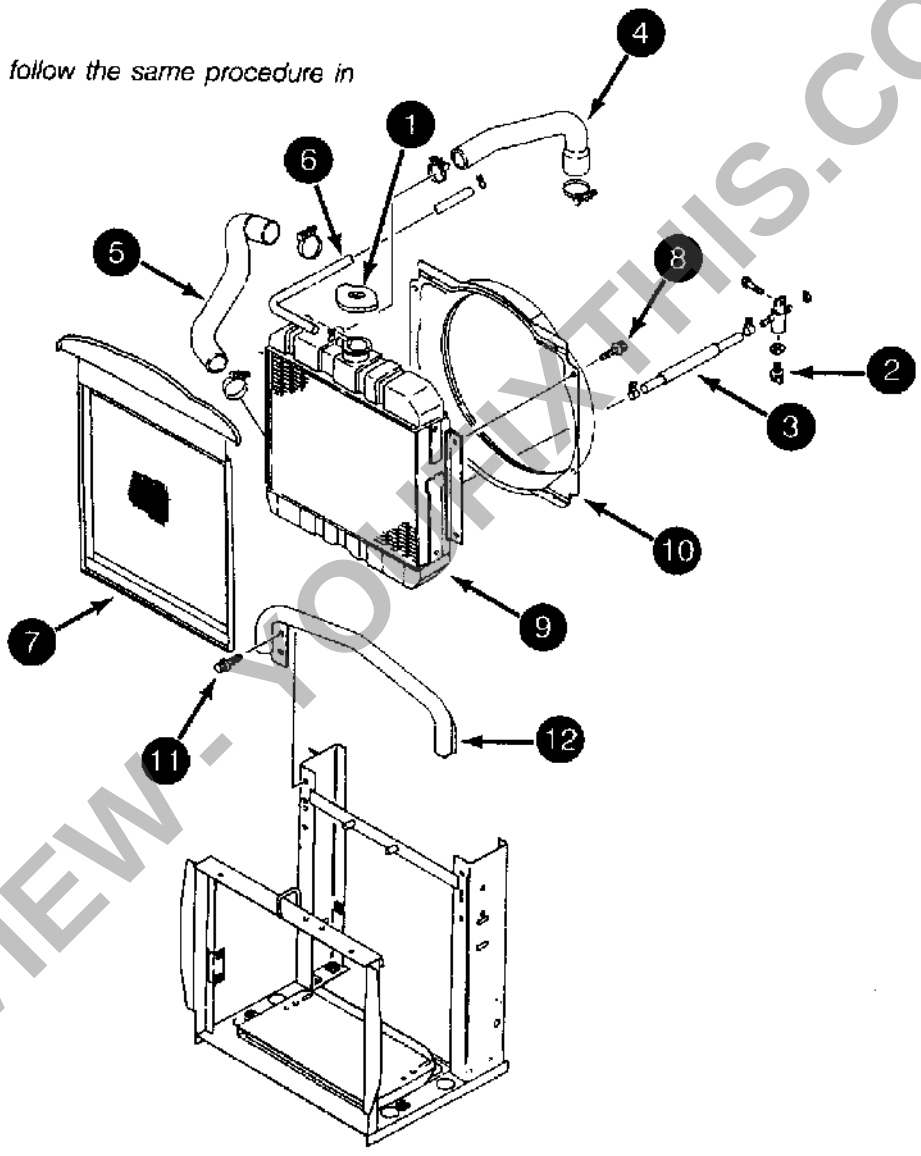
NOTE: *For Installation, follow the same procedure in reverse order.*

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[1]

Remove the radiator cap (1), using a suitable container with a capacity of at least 7.0 litres (6.2 U.K. Quarts) remove the coolant drain plug (2) and drain the cooling system. Remove the radiator drain hose (3), upper radiator hose (4), lower radiator hose (5), expansion tank hose (6), radiator screen (7), retaining bolts (8), radiator (9) and fan shroud (10). Remove items (11) and (12) if required.

NOTE: *For Installation, follow the same procedure in reverse order.*



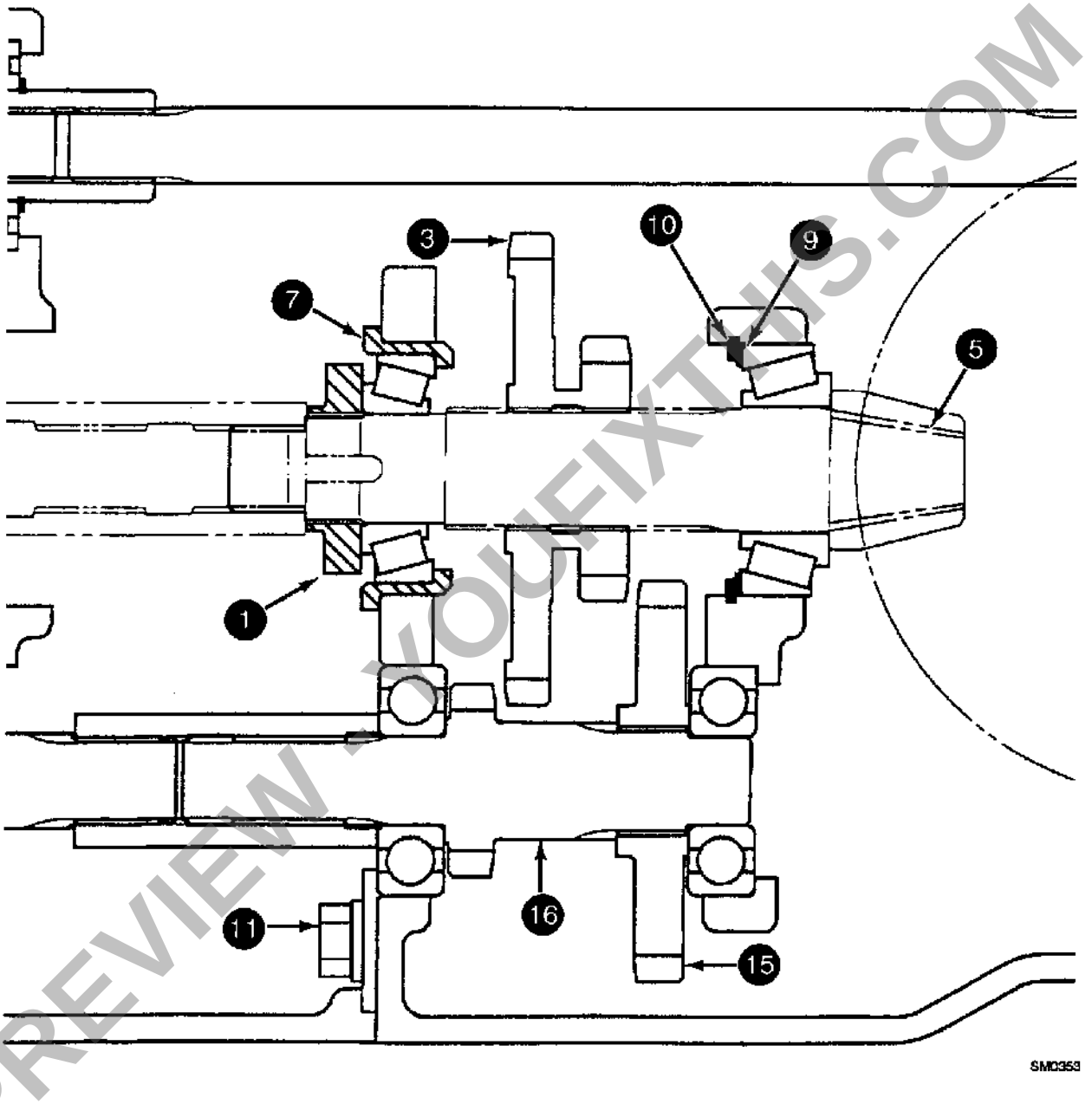
SM0523

NOTE: *Items marked (*) must be replaced.*

NOTE: *Items are numbered in order of Removal.*

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Cross Sectional Drawing of the Range Transmission (719 *)



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1. NUT
3. GEAR
5. PINION
7. HOLDER
9. SHIM
10. SNAP RING
11. BOLT
15. GEAR
16. SHAFT ASSEMBLY

PTO LEVER AND MID PTO LEVER

Disassembly and Assembly

[1]

Park the machine on hard, level ground. Apply the parking brake and stop the engine. Put blocks in front of and behind the front wheels.

[2]

Remove the hydraulic lift housing, refer to Sectin 4.

[3]

Put identification marks on the levers and selector forks for assembly.

[4]

Remove items (1 to 8).

NOTE: *Tractors not equipped with mid PTO will have a washer replacing item (2).*

[5]

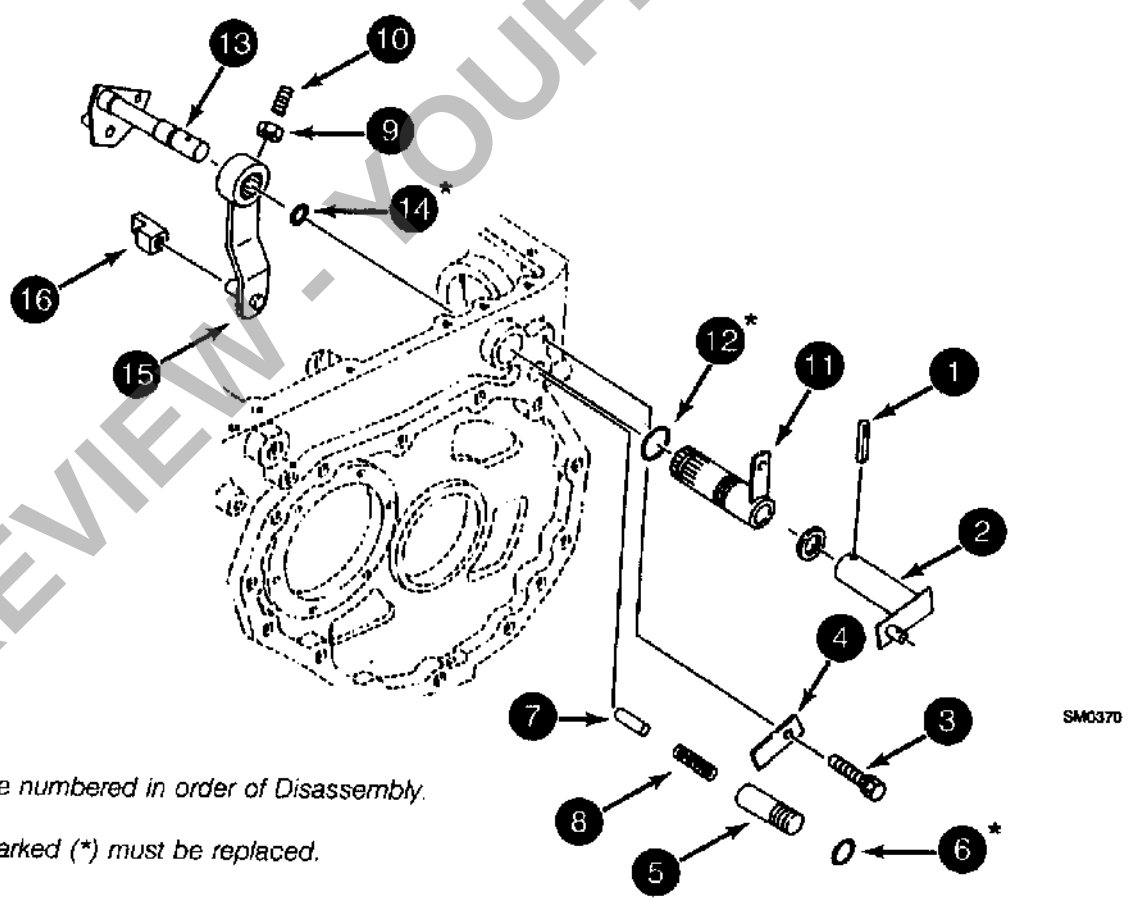
Remove items (9 to 16).

NOTE: *For Assembly, make sure item (16) is installed with the tapered side facing forwards.*

[6]

Check items (13 and 16) for wear or damage and replace necessary.

NOTE : *For Assembly, follow the same procedure in reverse order.*



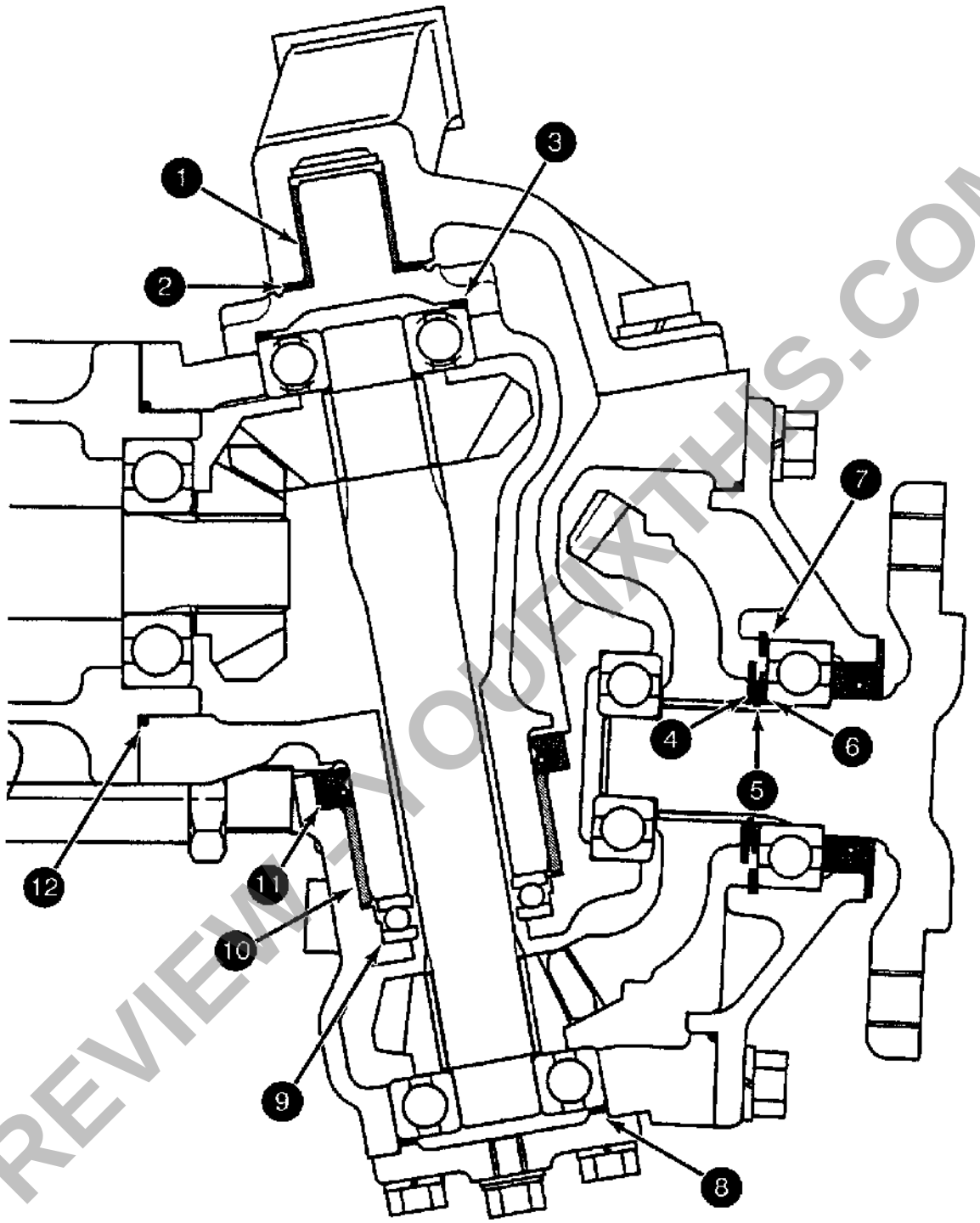
NOTE: *Items are numbered in order of Disassembly.*

NOTE: *Items marked (*) must be replaced.*

1. ROLL PIN
2. MID PTO LEVER
3. BOLT
4. PLATE
5. BOSS
6. O-RING
7. PIN
8. SPRING
9. NUT
10. SCREW
11. PTO LEVER
12. O-RING
13. MID PTO SHIFTER
14. O-RING
15. PTO SHIFTER
16. SHIFTER FINGER

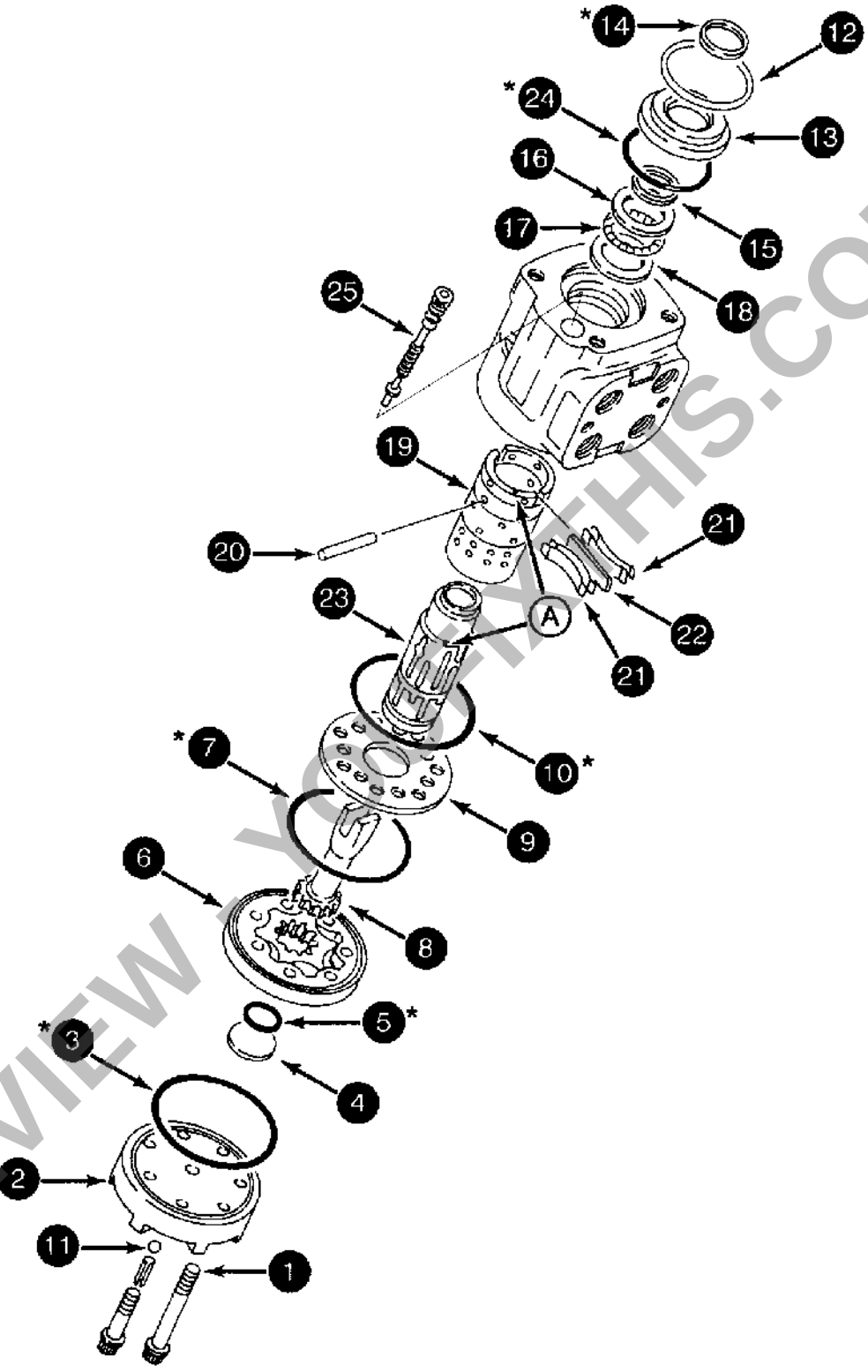
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Cross Sectional Drawing of the MFD Hub and Swivel Housing (719 *)



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1. BUSHING
2. SHIM
3. SHIM
4. SHIM
5. SNAP RING
6. WASHER
7. SNAP RING
8. SHIM
9. BEARING
10. BUSHING
11. SEAL
12. O-RING



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NOTE: *Items marked (*) must be replaced.*

1. BOLT
2. END COVER
3. O-RING
4. PLUG
5. O-RING
6. GEROTOR
7. O-RING
8. DRIVE SHAFT
9. VALVE PLATE
10. O-RING
11. BALL
12. SNAP RING
13. BUSHING
14. SEAL
15. QUAD RING
16. THRUST WASHER
17. BEARING
18. THRUST WASHER
19. SLEEVE
20. PIN
21. CENTERING SPRING
22. FLAT SPRING
23. SPOOL
24. O-RING
25. RELIEF VALVE

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