RV05
ROCKER VALVE

OPERATION and MAINTENANCE MANUAL

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6158 U.S.A. 9/88

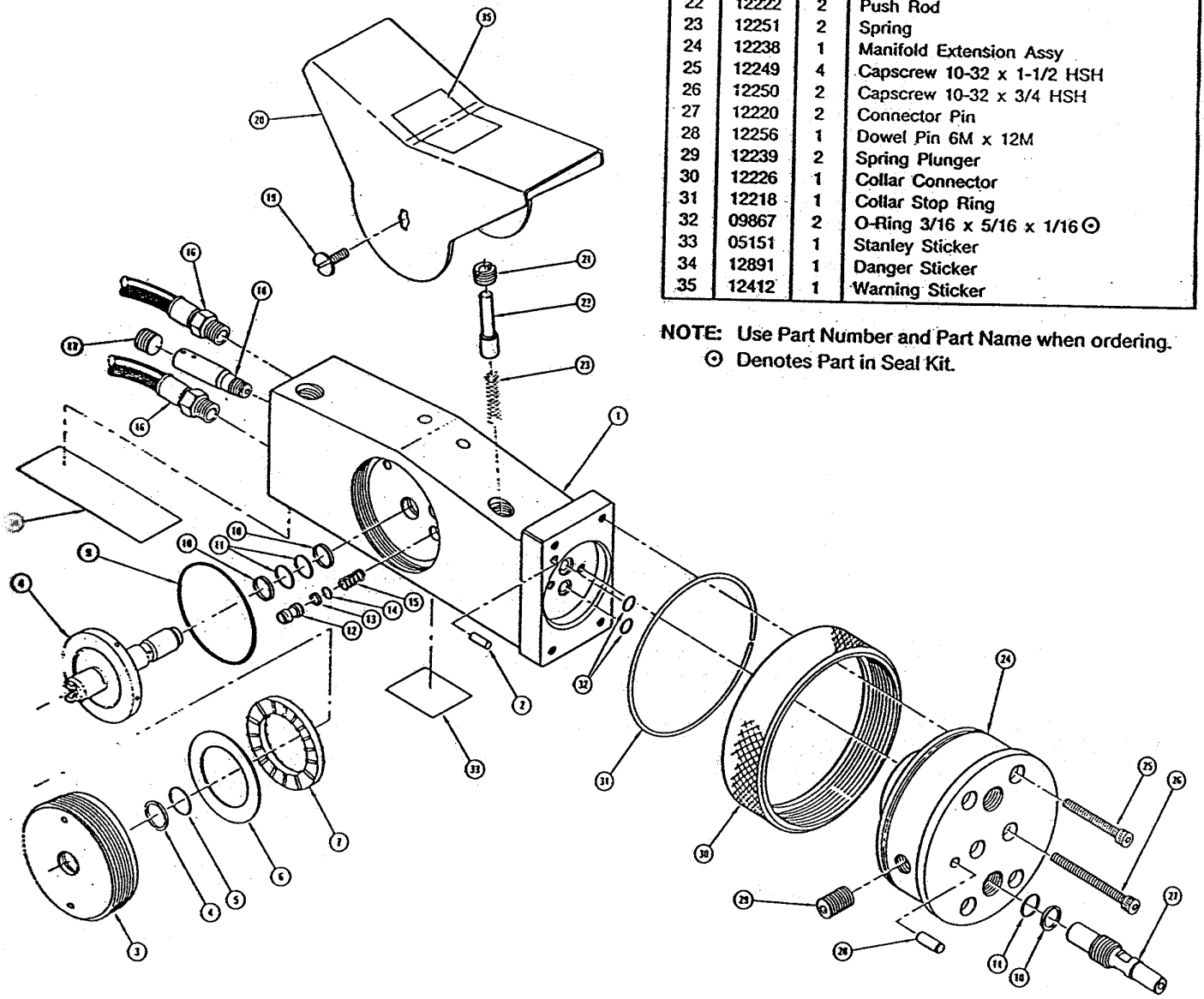
SEAL KIT DATA

Part No.	Qty.	Description
Seal Kit Part No. 14787		
00018	1	O-Ring
09867	2	O-Ring
15398	4	Back-Up Ring
12252	3	O-Ring
12253	4	O-Ring
12254	1	O-Ring
12280	3	Back-Up Ring
15399	1	Back-Up Ring

PARTS LIST

Item No.	Part No.	Qty.	Description
1	12236	1	Manifold Assy
2	12234	1	Dowel Pin 1/8 x 3/8
3	12227	1	Manifold Cap
4	15399	1	Back-Up Ring ⊙
5	00018	1	O-Ring 7/16 x 9/16 x 1/16 ⊙
6	08019	1	Bearing Race
7	08020	1	Needle Bearing
8	12235	1	Transfer Disc Assy
9	12254	1	O-Ring 1-3/4 x 1-7/8 x 1-16 ⊙
10	15398	4	Back-Up Ring ⊙
11	12253	4	O-Ring 3/8 x 1/2 x 1/16
12	12224	3	Manifold Grommet
13	12280	3	Back-Up Ring ⊙
14	12252	3	O-Ring 1/8 x 1/4 x 1/16
15	12255	2	Spring
16	07040	2	Hose Assy
17	01545	1	Pipe Plug — 1/4 NPT Hex Socket
18	12241	1	Unloading Valve Assy
19	12257	2	Screw 1/4-20 x 1/2 Sltd Pan Hd
20	12231	1	Rocker Arm
21	12221	2	Adjusting Nut (Push Rod)
22	12222	2	Push Rod
23	12251	2	Spring
24	12238	1	Manifold Extension Assy
25	12249	4	Capscrew 10-32 x 1-1/2 HSH
26	12250	2	Capscrew 10-32 x 3/4 HSH
27	12220	2	Connector Pin
28	12256	1	Dowel Pin 6M x 12M
29	12239	2	Spring Plunger
30	12226	1	Collar Connector
31	12218	1	Collar Stop Ring
32	09867	2	O-Ring 3/16 x 5/16 x 1/16 ⊙
33	05151	1	Stanley Sticker
34	12891	1	Danger Sticker
35	12412	1	Warning Sticker

NOTE: Use Part Number and Part Name when ordering.
⊙ Denotes Part in Seal Kit.



SERVICE INSTRUCTIONS

IMPORTANT

Unless otherwise specified, disconnect the control valve from the high-pressure hydraulic system before servicing.

Note: For orientation of the parts identified in the following procedures, refer to the parts location illustration at the rear of this manual.

PRIOR TO DISASSEMBLY

- If the control valve is attached to a head, disconnect it.
- Clean exterior of the control valve.
- Provide a clean work area.
- Obtain Seal Kit, part number 14787, to replace all seals and specified back-up rings exposed during disassembly.
- Note orientation of seals and back-up rings before removing them. Install new parts in the same way. Seals are always to the pressure side of the seal gland.

PRIOR TO REASSEMBLY

- Clean all parts with a degreasing solvent.
- Be sure that all seals exposed during disassembly are replaced with new parts.
- Apply clean grease or o-ring lubricant to all seals during reassembly.

CONTROL VALVE DISASSEMBLY

1. Remove the pressure and return hoses from the control valve.

2. Remove the six hex socket head capscrews securing the manifold extension assembly to the valve manifold. Remove the manifold extension assembly.

3. Remove the o-rings from the valve manifold.

4. Pick the wire retaining ring from the groove behind the collar connector and remove the collar connector.

5. Remove the two slotted head screws securing the rocker arm to the transfer disc assembly.

6. Remove the rocker arm by prying it off the transfer disc. At the end of the transfer disc with flats, place a mark to note disc positioning for reassembly.

7. Remove the adjusting nuts from the valve manifold and remove the push rods and springs.

8. Place the valve manifold in a soft-jaw vise. Using a pin wrench, remove the manifold cap from the valve manifold. Next remove the needle thrust bearing and race.

9. Remove the o-ring and back-up ring from the cap. Be careful not to damage the seal gland.

10. Push the transfer disc from the manifold. Be careful not to damage the bores in the manifold.

11. Remove the grommets from the manifold. The springs under them will push the grommets out.

12. Remove the o-rings and back-up rings from the grommets.

13. Remove the o-rings and back-up rings from the transfer-disc shaft bore in the manifold. Be careful not to damage the seal glands.

14. Remove the hex socket pipe plug from the system port end of the manifold, and using a screwdriver, remove the unloading valve.

CONTROL VALVE REASSEMBLY

1. Install the seals and back-up rings.

2. Install the grommet springs and grommets.

3. Install the transfer disc. Note the rotational position shown in figure 1 and the mark you made before removing the manifold cap.

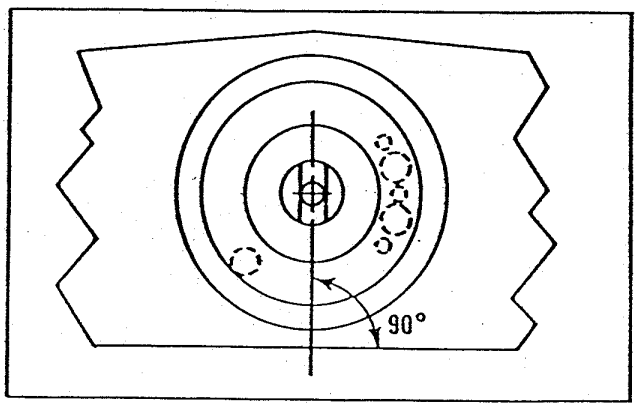


Figure 1. Transfer Disc Orientation in "OFF" Position.

SPECIFICATIONS

Type	Rocker, Open Center, Automatic Return
Operating Pressure	9500-10,500 psi/655-724 bar
Flow Range	30-115 in^3 per min/0.5-1.9 lpm
Porting Size	1/4 NPTF Female
Weight	3 lb/1.4 kg (without hoses)
Length	8 inch/20.3 cm
Width	3-1/8 inch/7.9 cm

NOTE

Weights, dimensions and operating specifications listed are subject to change without notice. Where specifications are critical to your application, please consult the factory.

ACCESSORIES

PART NO.	DESCRIPTION
INTENSIFIERS	
IP14115	IP14 Electric-Driven 10,000 psi/690 bar Hydralic Power Source
IP16615	IP16 Ultra Press 10,000 psi/690 bar Hydraulic Power Source
TOOLS	
CT12752	12-ton/10,886 kg Double-Acting Compression Tool, 1-1/2 inch/3.8 cm
CT12762	12-ton/10,886 kg Double-Acting Compression Tool, 1-1/2 inch/3.8 cm
CT12772	12-ton/10,886 kg Double-Acting Compression Tool, 1 inch/2.54 cm
CT15702	15-ton/13,608 kg Double-Acting Compression Tool, 2 inch/5.1 cm
CT05013	5-ton/4536 kg Double-Acting Cutting Tool, 1 inch/2.54 cm
CC55023	14-ton/12,701 kg Double-Acting Cutting Tool, 2 inch/5.1 cm

WARRANTY

Hand held tools and their parts are warranted against defects in materials and workmanship for a period of 12 months from the date of purchase. Exceptions are cutting parts, steels, and other parts not manufactured by Stanley (such as impact mechanisms, alternators, regulators, and hoses), and parts subject to normal wear and tear (such as o-rings, saw blades, and other parts that become worn through normal use of the tool).

The Warranty Registration Card packed with the tool must be filled out and returned to Stanley upon receipt of the tool.

Stanley reserves the right to replace or repair only those parts which under our examination prove to have been defective at the time of purchase.

Shipping charges are prepaid by the customer unless otherwise authorized by Stanley.

The warranty is void if maximum flow and pressure ratings are exceeded.

There is no other warranty expressed or implied.