

WALKER

SERVICE DIVISION



TRI-CITY HYDRAULIC JACK SERVICE

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Jack Parts Sheet

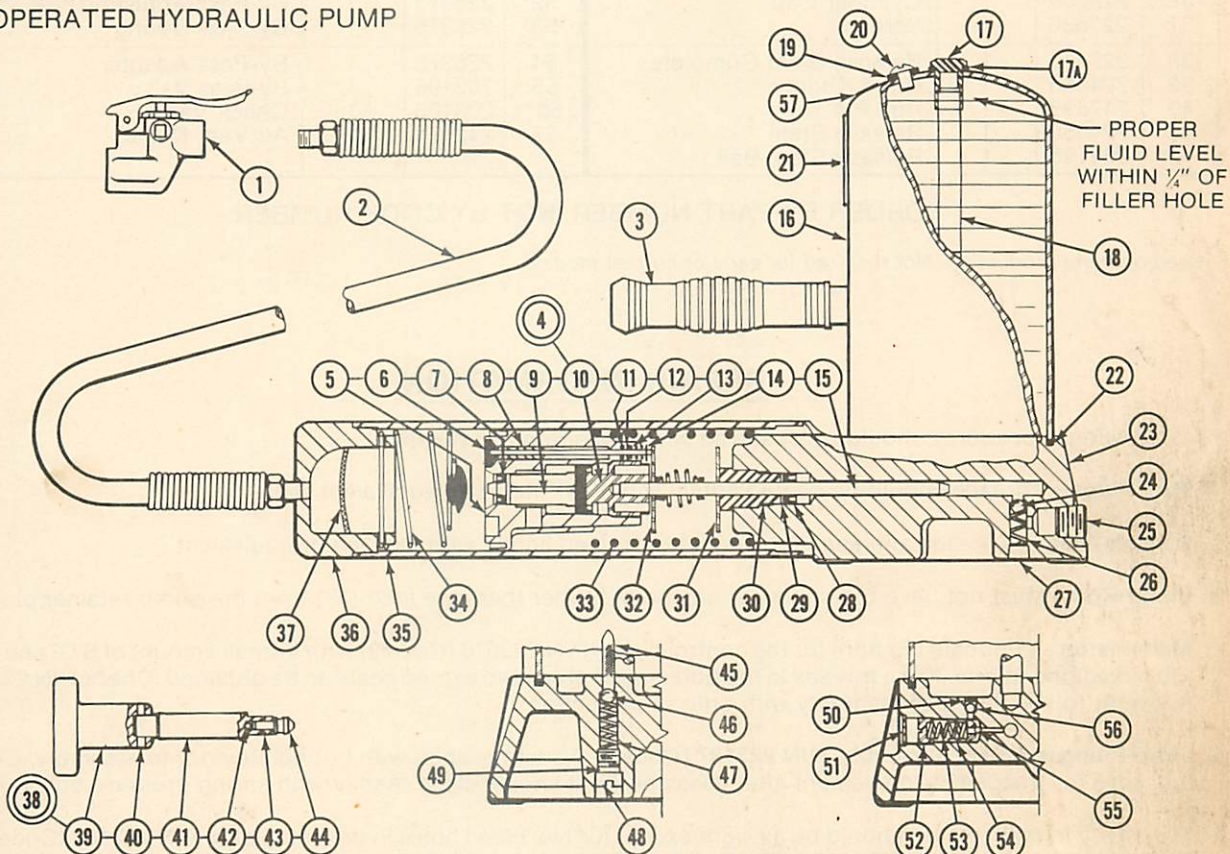
MODEL 93104

SERIES "A"

EARLY AND LATE PRODUCTION

10,000 PSI CAPACITY

AIR OPERATED HYDRAULIC PUMP



Item	Part No.	No. Req'd.	Description	Item	Part No.	No. Req'd.	Description
1	223180	1	Air Valve	14	228235	1	Valve Plunger Hairpin Cotter
2	228818	1	Air Hose Assembly	15	228812	1	Pump Rod
3	221365	1	Handle Grip	16	232805	1	Reservoir Assembly
4	228810	1	Piston Assembly	17	228800	1	Nut - Hold Down
5	231240	1	Piston	17A	230394	1	Washer - Hold Down
6	223187	1	Valve Plunger & Seat Assembly	18	228799	1	Stud - Hold Down
7	221013	1	"U" Cup Packing	19	200003	1	Filler Screw Gasket
8	221377	1	Roll Pin	20	212562	1	Filler Screw
9	223678	1	Pump Packing & Piston Assembly	21	232818	1	Instruction Decal
10	223183	1	Pump Retainer Plug	22	228817	1	Reservoir Gasket Ring
11	222288	1	"O" Ring-Plunger	23	232804	1	Valve Base
12	228813	1	Washer	24	203201	1	Discharge Ball
13	223184	1	Valve Plunger Spring	25	228821	1	Valve Base Plug
				26	216647	1	Discharge Spring
				27	210311	1	Discharge Line Pipe Plug

ORDER BY PART NUMBER, **NOT** BY CODE NUMBER

NOTE: Early production had reservoir capacity of 28 oz., replace when necessary, with 232805 reservoir assembly (48 oz. capacity) and include 212562 filler screw and 212171 air vent decal.

Walker Manufacturing GENERAL OFFICE: Racine, Wisconsin — MANUFACTURING PLANT AND SERVICE DEPARTMENT: Jonesboro, Arkansas — FACTORY SERVICE BRANCHES: Atlanta, Georgia — Cleveland, Ohio — Kansas City (Riverside), Missouri — Philadelphia, Pennsylvania.

**MODEL 93104
SERIES "A"
EARLY AND LATE PRODUCTION**

Item	Part No.	No. Req'd.	Description	Item	Part No.	No. Req'd.	Description
28	228815	1	"U" Cup	43	214555	1	O-Ring
29	228816	1	Back Up Washer	44	224061	1	Release Valve
30	228814	1	Gland Nut	45	221318	1	Suction Screen
31	223203	2	Trip Washer	46	203201	1	Suction Valve
32	228809	1	Trip Spring	47	222201	1	Suction Spring
33	228805	1	Piston Return Spring	48	226324	1	Suction Line Plug
34	228806	1	Bumper Spring & Cushion Assembly	49	204842	1	Suction Plug Gasket
35	228804	1	Pump Cylinder	50*	223268	1	Check Ball Retaining Ring
36	228808	1	Cylinder Cap	51	201733	1	By-Pass Expansion Plug
37	223680	1	Screen	52	226373	1	By-Pass Adjusting Nut
38	229713	1	Release Stem Complete	53	226375	1	By-Pass Spring
39	224058	1	Hand Knob	54	226376	1	By-Pass Adapter
40	217898	1	Roll Pin	55	203196	1	By-Pass Valve
41	224060	1	Release Stem	56*	203198	1	Check Valve
42	203196	1	Release Stem Ball	57	212171	1	Air Vent Decal

ORDER BY PART NUMBER, **NOT** BY CODE NUMBER

* Used on early production. Not required for early or current models.

REPAIR INFORMATION

The following procedures should be observed when repairing this pump.

- Pipe Plugs** - Threads should be coated lightly with Key-Tite or an equivalent sealant.
- Release Stem** - Threads and seal ring should be coated lightly with Oil Dag or equivalent.
- Pump Rod** - Must not have tool marks at any point farther than one inch (1") from the pump retainer plug.
- Main Piston** - Lubricate the bore for the control piston P/N 223678 (Code 9) with a small amount of STP and SAE -30 mixed one to one. Keep threads in the bore free of grease so a good seal can be obtained. Check P/N 223678 (Code 9) to see that it slides freely with only slight friction.
- Valve Plunger & Seat Assembly, P/N 223187 (Code 6)** - Coat the shaft with Lubriplate prior to assembly. Check the valve for freedom of movement after assembly as it should close readily with spring pressure only.
- The cavity in main piston should be air tight except for two bleed holes in the pump plug P/N 223183 (Code 10). To test, hold valve plunger P/N 223187 (Code 6) off its seat and "Pop" the control piston forward with a jet of air admitted past plunger seat. Close off the bleed holes in the pump plug with fingers and try to push the control piston closed. If assembly is air tight, piston will compress air behind it, and tend to spring back when released.
- Packing Gland Adjustment** - Pre-lubricate the 'U' cup with Lubriplate and wipe a little Lubriplate on the pump rod before assembling. Tighten the gland nut until its hex head locks against the base.
- Hydraulic Fluid** - After pump is completely re-assembled, be sure the release valve is closed before filling reservoir to proper level (48 ounces, see drawing).
- Test** - If the overload relief valve has to be disassembled, it will be necessary to reset it after reassembly. This can be done either of two ways. The best method is to connect the pump to a ten (10) ton Ram in the test stand, using the test stand gauge to make the setting. The other method is to connect a pressure gauge directly to the pump outlet and set the valve to open at 9,700 to 10,300 psi. Be sure to replace Expansion Plug P/N 201733 (Code 51) after setting is completed. Pump should be operated with the release open to purge any air from valve circuits.

SERVICE

We have Factory-owned BRANCHES AND AUTHORIZED SERVICE DEPOTS located in the principal cities of the United States and Canada. They are operated by FACTORY TRAINED STAFFS and carry a comprehensive stock of REPAIR PARTS. Please contact the Factory or your Walker DISTRIBUTOR for location of Branch or Service Depot nearest you.



Walker Manufacturing
Division of Tenneco Automotive

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