



PARTS & INSTALLATION INSTRUCTIONS

V-66 QUIK LIFT®

PARTS LIST

ITEM	Part Number	QTY.	DESCRIPTION	ITEM	Part Number	QTY.	DESCRIPTION
1	15726	1	Base & Tank Assembly	47a	15730	1	• Cover/Motor Mount
2	15336	1	• Sump Base	47b	15831	1	• Cover/Motor Mount w/tab
3	15206	1	• Ram Assembly	48	22120	2	• Cap Screw 5/16 x 3-1/4"
4	15158	1	•• Ram	* 49	15686	1	• Pump Shaft Seal
5	15219	1	•• Piston	* 50	15687	1	• O-ring 4-3/4 I.D.
* 6	15162	1	•• Piston Follower	51	15661	1	• "A" Solenoid Assembly
* 7	15125	1	•• Packing Cup	52a	15659	1	•• "A" Coil, Black Wire Steel
8	20316	1	•• O-ring 7/16" I.D.	53	15660	1	•• "A" Cartridge Valve
9	15738	1	•• Locknut 1/2-13	* 51	15431	1	•• Seal Kit, "A" Valve
* 10	05119	1	• Cover & Seal Assembly	51	15972	1	• "A" Solenoid Assembly
* 11	15131	1	•• Wiper	52	15905	1	•• "A" Coil, Black Wire Plastic
12	15737	1	•• O-ring 3-1/2" I.D.	53	15660	1	•• "A" Cartridge Valve
	08473	1	•• Sleeve	* 51	15431	1	•• Seal Kit, "A" Valve
13	21805	1	• Pressure Relief Valve Kit		15782	1	VALVE ASSY w/COUPLER
14	21806	1	•• Reducer Bushing 1/4-1/8	54	15794	1	• "D" Solenoid Assembly
15	15704	1	•• Pressure Relief Valve	55	15789	1	•• "D" Coil, Gray Wire
16	15205	1	• Cylinder Tank	56	15795	1	• "E" Solenoid Assembly
17	15209	1	• Cylinder	57	15790	1	•• "E" Coil, Yellow Wire
* 18	15198	1	• Washer	58	15796	1	• "F" Solenoid Assembly
* 19	15131	1	• O-ring 1-1/8 I.D.	59	15791	1	•• "F" Coil, Brown Wire
* 20	15163	1	• O-ring 3-1/2 I.D.	60	15797	1	• "G" Solenoid Assembly
21	20697	3	• O-ring 1-15/16 I.D.	61	15792	1	•• "G" Coil, Pink Wire
22	15709	3	• Locknut 5/16-24	62	15798	1	• "H" Solenoid Assembly
* 23	21929	5	• Stud	63	15793	1	•• "H" Coil, Violet Wire
24	22129	1	• Washer, Nytlite 5/16	64	15788	5	•• Cartridge Valve "D,E,F,G,H"
25	15641	2	• Plug w/O-ring 9/16"	* 65	15802	5	•• Seal Kit, "D,E,F,G,H" Valve
26	15619	1	• Filter	66	15800	5	• Kit-Check Valve, "D,E,F,G,H"
27	21999	1	•• Filter	67		1	•• Ball, 3/8"
28	15786	1	• Plug w/O-ring 9/16"	68		1	•• Spring
29	15688	2	• Pump	69	21857	1	•• 1/4 x 90 Degree Elbow (Tall)
30	15713	1	• Dowel Pins	70	22146	1	•• Coupler, Male Half
31	15574	1	• Locator	71	21502	1	•• 1/4 Nipple
* 32	15124	1	• Pump Check Valve	72	22145	1	•• Coupler, Female Half
33	15354	1	•• O-ring 3/8 I.D.	73	15606	2	• Kit-Crossover Valve
34	15603	1	•• Seat	74		1	•• O-ring
35	15604	1	•• Ball 9/32	75		1	•• O-ring
* 36	15700	1	•• Spring	76		1	•• Cage
37	15702	1	• O-ring 3/8 I.D.	77		1	•• O-ring w/Glyd. Ring
38	15699	1	• Ball Seat	78		1	•• Poppet
* 39	15701	1	• Relief Valve	79		1	•• Washer
40	22118	1	• O-ring "Special"	80		1	•• Guide
41	15703	1	• Socket Set Screw	81		1	•• Spring
42	22119	2	• Pump Mounting Plate	82		1	•• Spacer
43	21083	2	• Bolt 3/8-16 x 3-1/4" Gr. 5	83		1	•• Disc
* 44	15122	2	• Star Washer 3/8	84		1	•• Plug
* 45a	15123	1	• O-ring 1/4 I.D.	85		1	•• Adj. Screw
* 45b	15124	1	• O-ring 5/16 I.D.	86		1	•• O-ring
46	15841	1	• O-ring 3/8 I.D.	87		1	•• Acorn Nut 9/16-18
			• Motor - Two Terminal	* 87			•• Seal Kit-Crossover Valve
				88	21826	4	(includes items 84,85,87,96) Scr., Soc. Head 5/16-18 x 1-1/2"

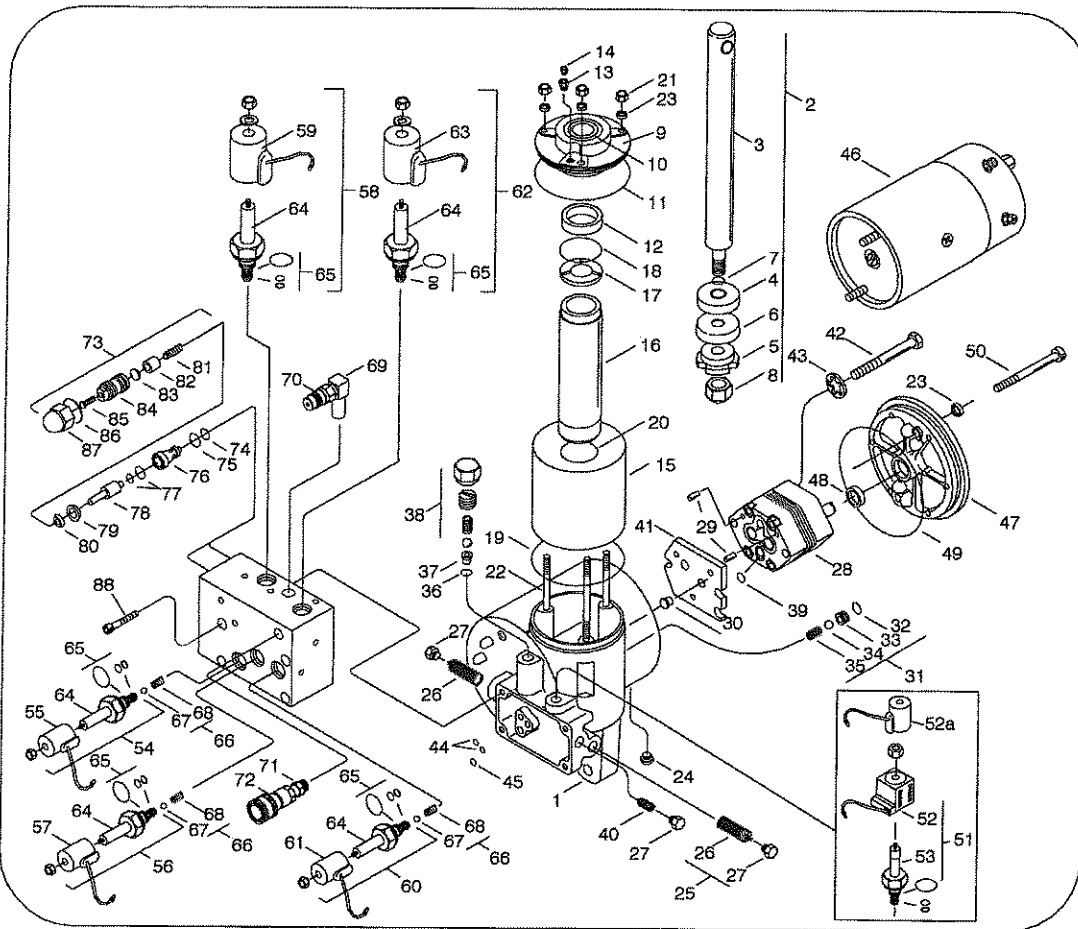
* Parts included in Master Seal Kit Part No. 15803.
Basic Seal Kit Part No. 15707.
Parts indented are included in assembly under which they are indented.

NOTES:

1. Set Crossover Relief Valve @ 3800 ± 400 P.S.I. @ 2-1/2 G.P.M. flow.
2. Set Pump Relief Valve @ 2500 ± 50 P.S.I. full flow @ 1.85 G.P.M.

Meyer Products reserves the right, under its continuing product improvement program, to change construction or design details, specifications and prices without notice or without incurring any obligation.





Note: Changes to items (45a - 45b), (47a - 47b) identify part before ordering a replacement. Oil seepage, if any, at o-ring (86) is normal, Do Not attempt to stop this seepage by further tightening of the acorn nut.

TORQUE SPECIFICATIONS

Reservoir Cover Retaining Nuts	5/16 - 24	100 - 125
Pump Assembly Bolts	3/8 - 16	180 - 220
Pressure Relief Ball Seat		125
Valve Block retaining Cap Screws	5/16 - 18	96 - 120
Cover Motor Mounting	5/16 - 18	100 - 125
Motor	1/4 - 20	60 - 72
Drain and Filter Plugs	9/16 - 18	75 - 85

HYDRAULIC SPECIFICATIONS

Pump Pressure Output (Pump Relief Valve setting)	2500 P.S.I.
Crossover Relief Valve Opening Pressure	3800 ± 400 P.S.I.

HYDRAULIC FLUID CAPACITY

NOTE: 1 Quart = 32 Fluid Ounces
MODEL V-66

UNIT	52 oz.
Hoses & 1-1/2" x 12" Cylinders	19 oz.
TOTAL	71 oz.

GENERAL INFORMATION

Before the Meyer Quik Lift® unit is disassembled for repairs, make certain that all the maintenance procedures have been checked. Refer to Owner's Manual.

When the unit is to be overhauled, Master Seal Kit Part No. 15803 is required. This Kit contains all necessary Seals for rebuilding. **NOTE: DO NOT REUSE OLD O-RINGS.**

When ordering parts, furnish Type of Unit, Part No., Name and Description.

These instructions are intended as a guideline for overhaul of an V-66 Quik Lift® unit. More detailed information covering principles of Operation, Troubleshooting, Disassembly and Repair are found in Service Manual 1-667. This is available for a nominal fee from your Meyer Distributor or directly from Meyer Products.

DISASSEMBLY AND INSPECTION OF UNIT

Drain fluid from unit by removing Pressure Relief Valve (14) and Drain Plug (24). Clamp Sump Base (1) firmly into vise.

1. To disassemble Cover Assembly (9), Cylinder Tank (15), Lift Cylinder (16), and Ram Assembly (2), remove the three Locknuts (21) and Nyltite Washers (23).
2. To disassemble Motor (46), remove motor end cover if screws if needed, exposing motor mounting bolts. Loosen motor mounting bolts; DO NOT EXTRACT FROM MOTOR.
Note: Motor end plate to be held in place. Temporarily install two 1/4-20 nuts on the motor mounting bolts to keep motor intact. Remove nuts when reinstalling motor. Remove motor.
3. To disassemble Motor Mounting Cover (47), remove Bolts (48) and Nyltite Washers (23).
4. To disassemble Pump (28) from Sump Base (1), remove Bolts (42) and Starwashers (43).
5. To disassemble Pump Mounting Plate (41), remove Plate and Locator (30).
6. Remove Pump Check Valve (31).
7. To disassemble Valve Block from Sump Base (1), remove Soc. Hd. Screws (88).

SUBASSEMBLIES - INSPECTION

1. **COVER ASSEMBLY, TANK, RAM & CYLINDER PARTS:**
 - a) Check Cover Assembly (9), Sump Base (1), and Motor Mounting Cover (47) castings for cracks and damage.
 - b) Replace Wiper Seal (10) pressed in Cover (9).
 - c) Replace the Pump Shaft Seal (49) pressed in Motor Mounting Cover (47).
 - d) Inspect Nylon Sleeve (12), Piston (4), the Piston Follower (5) on V-66 unit for excessive wear. Replace Packing Cup (6). Inspect Cylinder (16) for scoring and pitting in bore.
 - e) Inspect Ram (3) for nicks and rust.

2. MOTOR (46)

Note: Complete Motor Assemblies are only available from Meyer Products.

3. PUMP (28) - DO NOT at any time disassemble this Pump. This will void the warranty.

- a) The damaged pump shaft seal located in the Motor Mounting Cover (47) may be removed by careful extraction with a screwdriver.

CAUTION: Do not score seal bore in mounting cover. Dip new seal in oil with spring facing upward; press into Motor Mounting Cover (47).

4. BASE (1)

- a) Remove and clean "A" Solenoid (51) and inspect for external damage.
- b) Test Coil (52) for electrical continuity. Nominal coil resistance is 9.6 ohms. Replace O-rings from Seal Kit Part No. 15431 contained in Seal Kit No. 15803.
- c) To reassemble, carefully guide the Coil (52) over the Valve Cartridge (53) and use the original External Brass Nut.
- d) Remove Relief Valve (38). Inspect Spring, Ball, Ball Seat (37) and O-Ring (36) for damage.
- e) Remove and clean the Filter Screen (26) using kerosene and blow out with air. Replace 1/4 I.D. O-rings (44) and 5/16 I.D. O-ring (45) from Seal Kit No. 15705.
- f) Remove Cap Plug (27) and lower adjustment screw (40). Inspect base for contamination or damage.

5. VALVE BLOCKS

- a) Remove items (55), (57), (59), (61) & (63). Remove Cartridge (64) for D,E,F,G,H. Also remove (67), (68) beneath each valve assembly. Clean Solenoids and inspect for damage. **Do not** Disassemble Cartridge Valves. Replace O-rings from Seal Kit No. 15802 contained in Seal Kit No. 15803.
- b) Test all Coils for electrical continuity. Nominal coil resistance is 8.3 ohms.
- c) Remove all parts of Item (73) and inspect for damage. Replace O-rings from Seal Kit No. 15803. Set adjustable crossover to 3800 P.S.I. ± 400 P.S.I.
- d) With parts removed from Valve Block, clean and blow out with air to remove any foreign particles in Block.

6. UNIT REASSEMBLY

- a) Before reassembling, make certain all components and sub-assemblies are clean and free from all dirt and other foreign material.
- b) **USE NEW SEALS AND M-1 FLUID WHEN REASSEMBLING THE UNIT.**
- c) Proper fluid level is 1-1/2" below filler hole. It must be checked with Lift Ram fully retracted.

NOTE: Oil seepage, if any, at O-ring (86) is normal, **DO NOT** attempt to stop this seepage by further tightening of the Acorn Nut.