



PARTS & INSTALLATION INSTRUCTIONS

V-68 ELECTRO-LIFT® UNIT

PARTS LIST

ITEM	V-68	QTY	DESCRIPTION
	15009	1	Lift Assembly (Unit Only) 12V
1	15011	1	• Front Cover
2	15010	1	• Rear Cover
	15046	1	• Cover Hardware Kit
3	-----	6	•• Flatwasher M6
4	-----	6	•• Allen Head M6-1p x 14mm
5	15727	1	• Motor - 12 Volt (2 Terminal)
6	15023	1	• Pump Shaft Extension
7	15021	1	• Pump Assy.
8	-----	1	•• O-ring
9	15029	2	• Allen Head M8-1.25p x 80mm
10	15022	1	• Pump Filter Assy.
11	-----	1	•• O-ring
12	15025	1	• Kit - Pump Relief Valve
13	-----	1	•• O-ring
	15035		• Base Tank Kit
14	15015	1	•• Base Tank
15	15013	1	•• Base Tank Gasket
16	15014	1	•• Drain Plug
17	-----	1	••• O-ring
	15041	1	• Base Tank Hardware Kit
18	-----	6	•• Lockwasher M8
19	-----	6	•• Allen Head M8-1.25p x 25mm
20	15012	1	• Fill/Relief Valve
21	-----	1	•• O-ring
22	15034	1	• Oil Return Tube
	15036		• Base Plate Kit
	15047	1	•• Base Plate Seal Kit
15	15013	1	••• Base Tank Gasket
21	-----	1	••• O-ring
23	15020	1	•• Base Plate
24	-----	1	••• Sleeve
25	05815	1	Lift Ram 1-3/4 x 8 sae -6
	15017	1	• Ram Clamp Assy.
26	-----	1	•• Clamp
27	-----	1	•• Clamp Bar
28	-----	2	•• Lockwasher M8
29	-----	2	•• Allen Head M8-1.25p x 20mm
30	-----	1	•• Special Bolt
31	-----	1	•• Locknut M8-1.25p
32	-----	1	•• Special Nut M-8-1.25p

Parts indented are included in assembly under which they are indented.

- Master Seal Kit Part No. 15051 (includes all seal kits below)
- Base Plate Seal Kit Part No. 15047
- Universal Valve Block Seal Kit Part No. 15049
- Super Vee Valve Block Seal Kit Part No. 15048
- Pump Relief Valve @ 2000 ± 50 P.S.I. full flow. **Non Adjustable**
- Cross-Over Relief Valve @ 2000 ± 50 P.S.I. full flow. **Non Adjustable**

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ITEM	V-68	QTY	DESCRIPTION
33	15039	1	• Universal Valve Block Assy.(12V)
	15925	1	•• "S1" Solenoid Assembly
34	15916	1	••• Coil (12V)
35	15917	1	••• "S1" Cartridge Valve
	15928	1	••• "S1" Seal Kit
	15044	1	•• "S2" Solenoid Assembly
34	15916	1	••• Coil (12V)
36	15055	1	••• "S2" Cartridge Valve
	15056	1	••• "S2" Seal Kit
	15927	2	•• "S3" Solenoid Assembly
34	15916	1	••• Coil (12V)
37	15919	1	••• "S3" Cartridge Valve
	15930	1	••• "S3" Seal Kit
38	15950	1	•• Kit Needle Valve (Lower Adj.)
39	-----	1	••• O-ring
40	-----	1	••• Needle Valve
41	-----	1	••• Needle Valve Retaining Ring
42	-----	1	••• Nut M6 x 1/2" nut
43	15965	2	•• Check Valve Assembly
44	-----	1	••• Body
45	-----	1	••• Plug
46	-----	1	••• Spring
47	-----	1	••• Ball
48	-----	1	••• O-ring
49	-----	1	••• O-ring
50	15031	1	•• P.O. Pilot Spool Assy.
51	-----	1	••• Inner O-ring
52	-----	1	••• Outer O-ring
53	15024	2	•• Allen Head M6-1p x 70mm
54	15030	1	•• Allen Head M8-1.25p x 90mm
	15050	1	•• O-ring/Dowel Pin Kit
55	-----	1	••• O-ring
56	-----	1	••• O-ring
57	-----	3	••• O-ring
58	-----	2	••• Dowel Pin
59	15038	1	•• "V" Valve Block Assy.(12V)
	15926	1	•• "S5" & "S6" Solenoid Assembly
34	15916	1	••• Coil (12V)
60	15918	1	••• "S5" & "S6" Cartridge Valve
	15929	1	••• "S5" & "S6" Seal Kit
	15987	1	•• "S7" Solenoid Assembly
34	15916	1	••• Coil (12V)
61	15958	1	••• "S7" Cartridge Valve
	15930	1	••• "S7" Seal Kit
43	15944	2	•• Check Valve Assembly
44	-----	1	••• Body
45	-----	1	••• Plug
46	-----	1	••• Spring
47	-----	1	••• Ball
48	-----	1	••• O-ring
49	-----	1	••• O-ring
50	15031	2	•• P.O. Pilot Spool Assy.
51	-----	2	••• Inner O-ring
52	-----	2	••• Outer O-ring
62	15033	4	•• Relief Valve Assy.
63	-----	4	••• Body
64	-----	4	••• O-ring
65	-----	4	••• O-ring
66	-----	4	••• O-ring
67	-----	4	••• O-ring
68	-----	4	••• Ball
69	-----	4	••• Ball Seat
70	-----	4	••• Spring
71	15024	5	•• Allen Head M6-1p x 70mm
	15050	1	•• O-ring/Dowel Pin Kit
72	-----	1	••• O-ring
73	-----	1	••• O-ring
74	-----	3	••• O-ring
75	-----	2	••• Dowel Pin

GENERAL INFORMATION

Before the Meyer Electro-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. 15051 is required. This Kit contains all necessary Seals for rebuilding.

These instructions are intended as a guideline for overhaul of an V-68 Electro-Lift® unit.

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

More detailed information covering principles of Operation, Troubleshooting, Disassembly and Repair are found in the V-68 Electro-Lift® Service Manual. This is available for a nominal fee from your Meyer Distributor.

DISASSEMBLY AND INSPECTION OF UNIT

NOTE: DO NOT REUSE OLD O-RINGS.

Drain fluid from the unit by removing Fill/Pressure Relief Valve (20) and Drain Plug (16). Clamp V-68 unit firmly into vise.

1. Remove 6 Allen Head Screws and Washers (3 & 4) from Front and Rear Covers (1 & 2). Carefully push in on slots to separate the covers from each other.
2. Remove the hydraulic side harness from the hydraulic unit. **Note the positioning of the colored wires on the solenoid coil plugs to the coils on the hydraulic unit. (Reference Form 1-883)** See Figure 3.
3. Remove hose 22675 from Valve Block and Lift Ram. See Figure 2. **Note orientation of Lift Ram before removal.** Loosen then remove ram clamp assembly in order to remove Lift Ram.
4. To disassemble MOTOR (5) from Base Plate, loosen Motor mounting bolts, but DO NOT REMOVE bolts from motor housing.

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 to pump.

5. To disassemble VALVE BLOCKS (33 & 59) from BASE PLATE (23), remove Allen Head Screws (53, 54 & 71).
6. To disassemble BASE PLATE (23) from BASE TANK (14) remove six Allen Head Screws with lockwashers (18 & 19).

SUBASSEMBLIES - INSPECTION

1. BASE TANK (14) & BASE PLATE (23)

- a) Check Base Tank (14) casting for cracks and damage.
- b) Check Base Plate (23) for cracks and damage. Inspect Sleeve (24) for wear.

2. MOTOR - Two Terminal (5)

Note: Complete Motor Assemblies are only available from Meyer Products. The only service part available is the Brush Kit 15854.

3. PUMP (7)

DO NOT at any time disassemble this Pump. This will void the warranty.

- a) Inspect Motor Key. (6)
- b) Clean Pump Filter Assy. (10)

4. VALVE BLOCK (33 & 59)

- a) Clean "S1" Catridge (35) and inspect for damage. Replace O-rings from Seal Kit No. 15928 or in Master Seal Kit No. 15051.
- b) Clean "S2" Catridge (36) and inspect for damage. Replace O-rings from Seal Kit No. 15056 or in Master Seal Kit No. 15051.
- c) Clean "S3" Catridge (37) and inspect for damage. Replace O-rings from Seal Kit No. 15930 or in Master Seal Kit No. 15051.
- d) Clean "S5 & S6" (60) Catridge and inspect for damage. Replace O-rings from Seal Kit No. 15929 or in Master Seal Kit No. 15051.
- e) Clean "S7" Catridge (61) and inspect for damage. Replace O-rings from Seal Kit No. 15930 or in Master Seal Kit No. 15051.
- f) Test all Coils for electrical continuity. Nominal Coil resistance is 8.3 ohms.
- g) Remove Pilot Check Valves (43) and Piston Assemblies (50) from both Valve Blocks (33 & 59) and inspect the Piston for scratches. Replace O-rings from Universal Valve Block Seal Kit No. 15049 or Super Vee Valve Block Seal Kit No. 15048 or Master Seal Kit No. 15051.
- h) Remove Relief Valve Parts (62 thru 70) and inspect for damage. Replace O-rings from Super Vee Valve Block Seal Kit No. 15048 or Master Seal Kit No. 15051.
- i) 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.

Lubricate all orings with M-1 oil during assembly.

Coat all bolt threads with a anti-sieze lubricant prior to reassembly.

- b) Motor mounting bolts must be sealed with Permatex or an all weather type sealant.
- c) **USE NEW SEALS AND M-1 FLUID WHEN REASSEMBLING THE UNIT.**
- d) Proper fluid level is just below the neck of the filler hole. It must be checked with Lift Ram fully retracted.

IMPORTANT: All Hydraulic Rams should be stored with a light coat of grease on chrome ram in the off season to prevent rust.