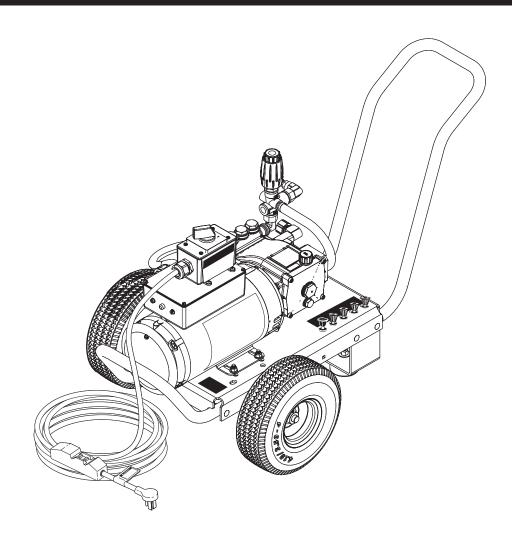
SERVICE MANUAL



MODEL #	ORDER #
HD 2.0/1000 Ed	1.106-124.0
HD 1.9/1300 Ed	1.106-125.0
HD 3.0/1000 Ea	1.106-126.0
HD 3.5/2000 Ea	1.106-127.0
HD 1.8/1300 Ed	1.106-128.0

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INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing this Pressure Washer.

We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this pressure washer. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

The operator must know how to stop the machine quickly and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.

SAVE THESE INSTRUCTIONS

This manual should be considered a permanent part of the machine and should remain with it if machine is resold.

When ordering parts, please specify model and serial number. Use only identical replacement parts. This machine is to be used only by trained operators.

IMPORTANT SAFETY INFORMATION



WARNING: To reduce the risk of injury, read operating instructions carefully before using.

 Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.
 Know how to stop the ma-

chine and bleed pressure quickly. Be thoroughly familiar with the controls.

- 3. Stay alert watch what you are doing.
- 4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details. If your machine is rated 250 volts or less, single phase will be provided with a ground fault circuit interrupter (GFCI). If rated more than 250 volts, or more than single phase this product should only be connected to a power supply receptacle protected by a GFCI.

DANGER: Improper connection of the equipment-grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adaptor with this product



WARNING: Keep wand, hose, and water spray away from electric wiring or fatal electric shock may result.

 To protect the operator from electrical shock, the machine must be electrically grounded. It is the responsibility of the owner to connect this machine

to a UL grounded receptacle of proper voltage and amperage ratings. Do not spray water on or near electrical components. Do not touch machine with wet hands or while standing in water. Always disconnect power before servicing.



WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

WARNING: Risk of explosion — Do not spray flammable liquids.

6. Do not allow acids, caustic or abrasive fluids to pass through the pump.

- 7. Never run pump dry or leave spray gun closed longer than 1-2 minutes.
- 8. Keep operating area clear of all persons.



WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, hand and foot safety devices must be worn.

Eye, hand, and foot protection must be worn when using this equipment.

IMPORTANT SAFETY INFORMATION



WARNING: Grip cleaning wand securely with both hands before starting. Failure to do this could result in injury from a whipping wand.



WARNING: Be extremely careful when using a ladder, scaffolding or any other relatively unstable location. The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.



RISK OF INJECTION OR SEVERE INJURY

TO PERSONS. KEEP

WARNING: High pressure developed by these machines will cause personal injury or equipment damage. Keep clear of nozzle. Use caution when operating. Do not direct discharge stream at people, or severe injury or death will result.

- 17. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 18. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.



19. Follow the maintenance instructions specified in the manual.

- 10. To reduce the risk of injury, close supervision is necessary when a machine is used near children. Do not allow children to operate the pressure washer. This machine must be attended during operation.
- 11. Never make adjustments on machine while in operation.
- 12. Be certain all quick coupler fittings are secured before using pressure washer.

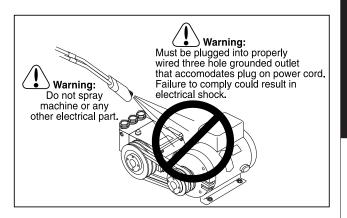
WARNING **** PROTECT FROM FREEZING

WARNING: Protect machine from freezing.

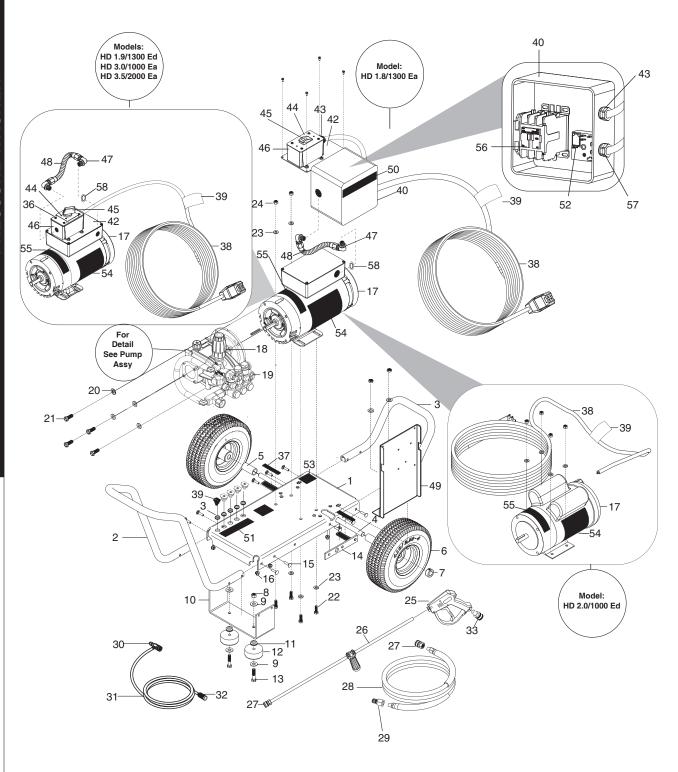
 To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death,

serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.

- 14. Inlet water must be clean fresh water and no hotter then 90°F.
- 15. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
- 16. The best insurance against an accident is precaution and knowledge of the machine.



EXPLODED VIEW



1

5

EXPLODED VIEW PARTS LIST DESCRIPTION QTY ITEM PART NO. 8.924-115.0 Al Base Direct Drive 1 1 8.924-394.0 Al Handle 1 3 8.924-393. Al Bumper Axle, 5/8 X 20.125 Long 9.803-097.0 1 5 8.924-179.0 AL Spacer Tube DD Frame 2 1 8.756-365.0 QH Wheel Assy 10", Gray STL RIM, Flat 2 7 9.802-782.0 Collar, 5/8" Bore Shaft 3010 2 9.197-003.0 3/8-16 Nylon Insert I/n zc 5um White 8 9.802-817.0 Washer, 3/8" x 1" 4 10 8.924-116.0 Foot AL DD Frame CW 1 2 9.802-064.0 Grommet, Rubber, Nozzle Holder Pad Soft Rubber 2 12 9.802-066.0 Hex Head Bolt 3/8-16 x 1-3/4" 2 13 9.196-041.0 14 8.924-074.0 Camaro Silver Axle Holder DD CW 1 15 9.802-706.0 Bolt, 1/4"-20 x 1-3/4" Carriage Zinc 8 9.197-010.0 1/4-20" Nylon Insert Lock Nut With Flange 10 17 9.804-516.0 Motor, 1.5HP 1PH, 115V 1725RPM, TEFC (HD 2.0/1000 Ed) 1 8.754-710.0 Motor, 2HP 1PH 115/230V 3470 RPM ODP (HD 1.8/1300 Ed) 1 Motor, 2HP, 1PH, 115V, 1750RPM 56C ODP (HD 3.0/1000 Ea, HD 1.9/1300 Ed) 8.754-709.0 1 9.802-341.0 Motor, 5HP 1PH 208/230V 3450RPM (HD 3.5/2000 Ea) 1 18 8.750-299.0 Unloader, VRT3, 8 GPM @4500 PSI (HD 2.0/1000 Ed, HD 1.9/1300 Ed, HD 3.0/1000 Ea, HD 3.5/2000 Ea) 1 9.802-362.0 Unloader, PA 8@3650, VB8 W/SWITCH (HD 1.8/1300 Ed) 1 19 8.754-760.0 Pump, Leuco LF2030F, 2.1@3000, 3450RPM (HD 1.8/1300 Ed) 1 8.754-761.0 Pump, Leuco LF2030S, 2.1@3000, 1725RPM (HD 2.0/1000 Ed, HD 1.9/1300 Ed) 1 8.754-763.0 Pump, Leuco LF2830S, 2.8@3000, 1725RPM (HD 3.0/1000 Ea) 1 8.754-764.0 Pump, Leuco LF3530F, 3.5@3000, 3450RPM (HD 3.5/2000 Ea) 1 3/8", USS F/W Zinc 4 20 9.198-004.0 4 21 9.802-720.0 Bolt, 3/8" x 1", NC HH 22 9.802-710.0 Screw 5/16" x 1" NC 4 23 8.718-980.0 Washer, 5/16" Flat, SAE 8 24 9.802-776.0 Nut. 5/16-18. ESNA 4 Trigger Gun Model m407 1 8.750-247.0 Wand 30" Zinc Plated, Handle & Coupler 26 8.783-039.0 1 Coupler, 3/8" Socket, Female, Brass 2 27 9.802-166.0 8.916-740.0 Hose, 3/8" x 50', 1w, TS, SOXSW 1 Coupler, 3/8" Plug, Female, Steel Zinc 1 29 9.802-170.0 1 30 9.802-216.0 Injector, Chem, Non Adj, 0.083 Hose DN 5 3.2 ft. 31 6.388-216.0 32 5.731-652.0 Filter with weight 1

Nozzle, SACQMEG, 0003.5, Red (HD 2.0/1000 Ed, HD 1.9/1300 Ed)

Nozzle, SAQCMEG 1503.5, Yellow(HD 2.0/1000 Ed, HD 1.9/1300 Ed)

Nozzle, SAQCMEG, 2503.5, Green (HD 2.0/1000 Ed, HD 1.9/1300 Ed)

Nozzle, SAQCMEG 4003.5, White (HD 2.0/1000 Ed, HD 1.9/1300 Ed)

9.802-169.0

8.712-339.0

8.712-340.0

8.712-357.0 8.712-358.0

8.712-359.0 8.712-360.0

8.712-398.0

34 8.755-187.0

35 8.712-337.0 8.712-338.0 Coupler, 3/8"Socket, Male, Brass

Grommet, Rubber, Nozzle Holder Base 3/16

Nozzle, SAQCMEG 0005.5, Red (HD 3.0/1000 Ea)

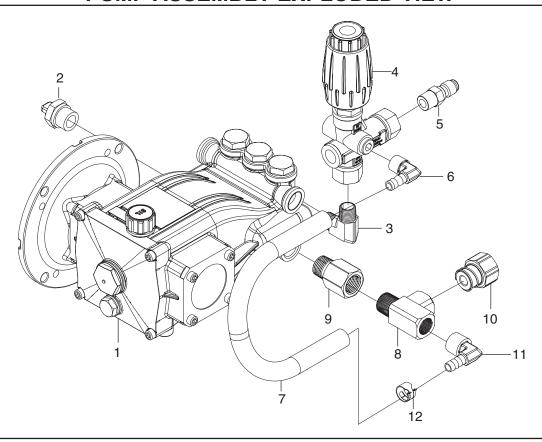
Nozzle, SAQCMEG 1505.5, Yellow (HD 3.0/1000 Ea) Nozzle, SAQCMEG 2505.5, Green (HD 3.0/1000 Ea)

Nozzle, SAQCMEG 4005.5, White (HD 3.0/1000 Ea)

Nozzle kpl., QCEM-6540 Mess. (CHEM) (all models)

EXPLODED VIEW PARTS LIST 8.712-353.0 Nozzle, saqcmeg 0005, Red (HD 3.5/2000 ea) 1 Nozzle, sagcmeg 1505, Yellow (HD 3.5/2000 ea) 8.712-354.0 1 Nozzle, saqcmeg 2505, Green (HD 3.5/2000 ea) 8.712-355.0 1 Nozzle, saqcmeg 4005, White (HD 3.5/2000 ea) 8.712-356.0 8.712-331.0 Nozzle, sagcmeg 0003, Red (HD 1.8/1300 ed) Nozzle, saqcmeg 1503, Yellow (HD 1.8/1300 ed) 8.712-333.0 8.712-334.0 Nozzle, saqcmeg 2503, Green (HD 1.8/1300 ed) 1 8.712-335.0 Nozzle, sagcmeg 4003, White (HD 1.8/1300 ed) 1 Nozzle kpl., QCEM-6540 Mess. (CHEM) 8.712-398.0 1 9.802-478.0 LID, Plastic, Carlon E9801 Box (HD 3.5/2000 Ea, HD3.0/1000 Ea, HD1.9/1300 Ed) 1 9.802-073.0 Weatherstrip, 1/8" x 1/2" 12" 37 1 GFCI, 120V 15A, W/ 36' 12-3 CORD (HD 2.0/1000 ED) 38 9.802-432.0 GFCI, 125V 20A, 36' 12-3 CORD (HD 1.9/1300 ED, HD 3.0/1000 Ea AND HD 1.8/1300 Ea) 9.802-431.0 1 9.802-430.0 GFCI, 240V 1PH 30A, 36' 10-3 CORD (HD 3.5/2000 Ea,) 1 8.932-969.0 Label, Warning, Service Cord 1 1 8.716-271.0 Enclosure, Fiberglass, nema4x 14324.500 (HD 1.8/1300 Ea) 41 9.802-423.0 Cord, Serv, 16/3, SEOOW, /FT (HD 1.8/1300 Ea) 2 FT 9.803-833.0 Cover, Motor (HD 1.8/1300 EA, HD3.5/2000 Ea, HD3.0/1000 Ea, HD1.9/1300 Ed) 42 1 Strain Relief, LT, Str, 1/2 NPT, 23-.45D (HD 1.8/1300 Ea) 2 9.802-514.0 9.802-518.0 Strain Relief, LT, STR, 3/4 NPT .49-.71D (HD 3.5/2000 Ea, HD3.0/1000 Ea, HD1.9/1300 Ed) 1 8.900-840.0 Label, Remote Switch, Home Depot (HD 1.8/1300 Ea) 1 45 9.802-451.0 Switch, Rocker, Carling Green LENS875858 (HD 1.8/1300 Ea) 1 Switch, 2POS. 120V-600V, 1-3PH (HD 3.5/2000 Ea, HD3.0/1000 Ea, HD1.9/1300 Ed) 9.802-450.0 1 9.802-477.0 Box, Plastic, Carlon E9801, W/O LID (HD 1.8/1300 Ea, HD 3.5/2000 Ea, HD3.0/1000 Ea, HD1.9/1300 Ed) 1 9.802-517.0 Connector, 1/2" L/T, 90 DGR, Black (HD 1.8/1300 Ea) 2 47 2 9.803-831.0 Connector, 3/4' L/T, 90 DGR, Black (HD 3.5/2000 Ea) Conduit, WTR. TIGHT, FLEX, 1/2 100'/BOX (HD 1.8/1300 Ea, HD3.0/1000 Ea, 9.802-448.0 HD1.9/1300 Ed) 2.16 FT 9.802-436.0 Cord, Serv, 10/3, SEOOW, /FT (HD 3.5/2000 Ea) 2.16 FT Bracket, Elec Box, HD 1.8/1300Ed (HD 1.8/1300 Ea) 1 8.924-750.0 9.800-016.0 Label, Disconnect Power Supply (HD 1.8/1300 Ea) 1 8.755-210.0 Four Nozzle Label, Black (HD 1.8/1300 Ea) 1 51 1 9.802-472.0 Timer, 24-240v 5-60min w/Lock Out (HD 1.8/1300 Ea) 53 9.800-049.0 Label, Manufacturer's cleaning solution (HD 1.8/1300 Ea) 1 Label, Landa, Home Depot, ZE Warning (HD 1.8/1300 Ea) 1 54 8.900-305.0 9.800-037.0 Label, French Inst./Warn (HD 1.8/1300 Ea) 1 Contactor, DP,c25dnd225aa, w/aux block (HD 1.8/1300 Ea) 1 56 9.802-543.0 1 57 8.752-969.0 Strain Relief, LT, STR, 1/2 NPT 0.39-0.75ID (HD 1.8/1300 Ea) 58 9.803-834.0 Washer, Reducing 3/4" x 1/2" 1

PUMP ASSEMBLY EXPLODED VIEW

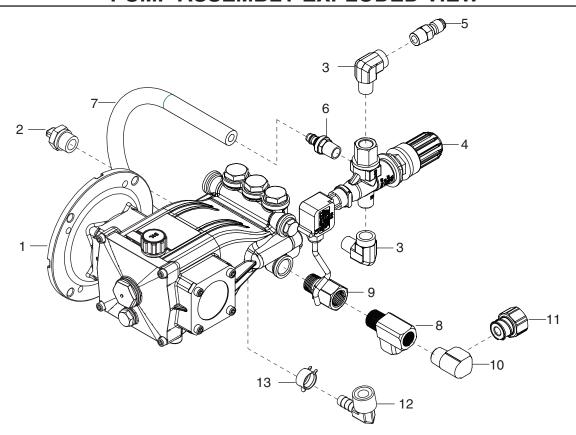


PUMP ASSY EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-761.0	PUMP, LEUCO LF2030S,2.1 @3000, 1725RPM (HD 2.0/1000 Ed,	
	8.754-763.0	HD 1.9/1300 Ed) PUMP, LEUCO LF2830S,	1
	0.754.704.0	2.8@3000, 1725RPM (HD 3.0/1000 Ea)	1
	8.754-764.0	PUMP, LEUCO LF3530F, 3.5@3000, 3450RPM (HD 3.5/2000 Ea)	1
2	8.707-256.0	Pump protector, 1/2"	1
3	8.706-168.0	Elbow, 3/8" NPT-p/n- tf3529x6 Steel	1
4	8.750-299.0	Unloader, Vrt3, 8 GPM @4500 psi	1
5	9.802-171.0	Coupler, 3/8" Clug, Male, Steel/zinc	1
6	8.705-119.0	Hose Barb, Elbow, 3/8" Barbx3/8" MPT/90Deg	1
7	8.711-785.0	Hose, 3/8" Push on, per ft	18"
8	8.706-860.0	Tee, 1/2" Street Brass	1
9	8.706-984.0	Adapter, 1/2" FTP x 1/2" MPT, brass	1
10	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF W/Strainer	1

•			AITIO EIOI	
	ITEM	PART NO.	DESCRIPTION	QTY
	11	8.705-120.0	Hosebarb, Elbow, 3/8" Barbx1/2" MPT/ 90Deg	1
	12	8.709-117.0	Clamp, Hose, UNI .6275 ST	2

PUMP ASSEMBLY EXPLODED VIEW

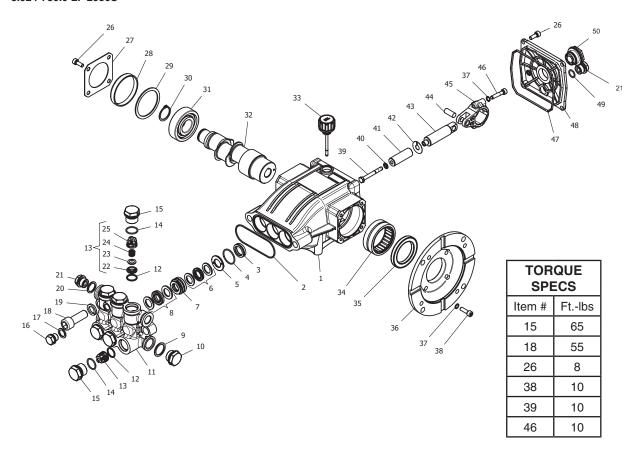


PUMP ASSY EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-760.0	PUMP, LEUCO LF2030F,2.1 @3000, 3450RPM	
		(HD 1.8/1300 Ed)	1
2	8.707-256.0	Pump protector, 1/2"	1
3	8.706-207.0	ELBOW, 3/8", STREET 90 DEG, STEEL	2
4	9.802-362.0	UNLOADER, PA 8@3650, VB8 W/SWITCH	1
5	9.802-171.0	Coupler, 3/8" Clug, Male, Steel/zinc	1
6	8.706-944.0	Hose Barb, 3/8' barb x 3/8' ML	. 1
7	8.711-785.0	Hose, 3/8" Push on, per ft	18"
8	8.706-860.0	Tee, 1/2" Street Brass	1
9	8.706-984.0	Adapter, 1/2" FTP x 1/2" MPT, brass	1
10	8.706-829.0	Elbow, 1/2" Street, Brass	1
11	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF W/Strainer	3
12	8.705-120.0	Hosebarb, ELBOW, 3/8" Barbx1/2" MPT/90Deg	1
13	8.709-117.0	Clamp, Hose, UNI .6275 ST	1

LF 2030S SERIES PUMP EXPLODED VIEW

8.924-736.0 LF 2030S



HF 2030S SERIES PUMP PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1
3*	See Kits Belo	w Plunger Oil Seal	3
4*	See Kits Belo	w O-ring Ø1.78 X 26.7	3
5*	See Kits Belo	w Washer, Pressure Ring	3
6*	See Kits Belo	w U-Seal	3
7*	See Kits Belo	w Pressure Ring	3
8*	See Kits Belo	w U-Seal	3
9	9.803-199.0	Washer, Copper G1/2	1
10	9.802-926.0	Plug, Brass G1/2	1
11	8.754-852.0	Manifold (16mm Models)	1
	8.754-853.0	Manifold (14mm Models)	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6	6
13*	See Kits Belo	w Valve Assembly	6
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6
15	9.803-949.0	Valve Plug	6
16	8.754-851.0	Plug, Brass G1/4 (16mm)	1
17	8.754-845.0	Washer, Copper G1/4 (16mm Models)	1
18	8.754-854.0	Bolt, Manifold M14 X 40	2

ITEM	PART NO.	DESCRIPTION	QTY
19	8.754-850.0	Washer, Lock	2
20	9.803-198.0	Washer, Copper G3/8	1
21	8.707-262.0	Plug, Brass G3/8	2
22*	See Kits Below	w Valve Seat	6
23*	See Kits Below	w Valve Plate	6
24*	See Kits Below	w Valve Spring	6
25*	See Kits Below	w Valve Cage	6
26	9.802-939.0	Screw, M6 X 16	8
27	8.717-137.0	Bearing Cover	1
28	9.803-954.0	Bearing Seal	1
29	8.754-843.0	Seal Spacer, Crankshaft	1
30	9.802-914.0	Snap Ring, 25 mm	1
31	9.803-955.0	Bearing, Ball	1
32	8.754-836.0	Shaft, 5/8" Hollow	1
33	8.754-219.0	Oil Dipstick	1
34	8.754-840.0	Bearing Needle	1
35	8.754-826.0	Seal, Crankshaft	1
36	8.754-844.0	Flange, Motor	1
37	9.803-210.0	Washer	10
38	8.752-824.0	Screw, 6 mm	4

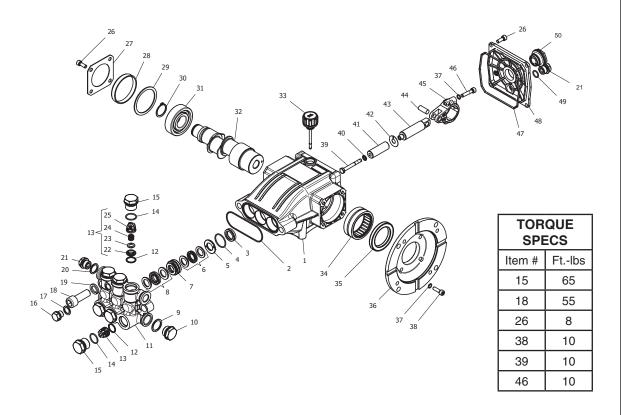
LF 2030S SERIES PUMP PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
39*	8.754-855.0	Bolt, Plunger	3
40*	8.754-092.0	Spacer, Copper	3
41	8.754-848.0	Plunger, 16mm	3
42	9.803-962.0	Spacer, Copper	3
43	8.754-827.0	Plunger Rod	3
44	9.803-965.0	Connecting Rod Pin	3
45	9.803-966.0	Connecting Rod	3
46	8.933-020.0	Screw, Connecting Rod	6
47	8.754-847.0	O-ring Ø2.62 X 111.62	1
48	8.754-842.0	Cover, Crankcase	1
49	9.803-906.0	O-ring Ø1.78 X 14	1
50	9.803-202.0	Sight Glass, G3/4	1

REPAIR KIT NUMBER	8.754-860.0	8.754-856.0	8.754-861.0	8.754-857.0	8.754-862.0	8.754-858.0	8.754-859.0	9.803-937.0
KIT DESCRIP- TION	Plunger Seals 14 mm**	Plunger Seals 16 mm**	Seal Pack- ing 14 mm**	Seal Pack- ing 16 mm**	Plunger 14 mm**	Plunger 16 mm**	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8	4, 6, 8	4, 5, 6, 7, 8	4, 5, 6, 7, 8	39, 40, 41, 42	39, 40, 41, 42	12, 13, 14	3

LF3530F SERIES PUMP EXPLODED VIEW

8.924-746.0 LF3530F



LF3530F SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1
3*	See Kits Below	w Plunger Oil Seal	3
4*	See Kits Below	w O-ring Ø1.78 X 26.7	3
5*	See Kits Below	w Washer, Pressure Ring	3
6*	See Kits Below	w U-Seal	3
7*	See Kits Below	w Pressure Ring	3
8*	See Kits Below	w U-Seal	3
9	9.803-199.0	Washer, Copper G1/2	1
10	9.802-926.0	Plug, Brass G1/2	1
11	8.754-852.0	Manifold (16mm Models)	1
	8.754-853.0	Manifold (14mm Models)	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6	6
13*	See Kits Below	w Valve Assembly	6
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6
15	9.803-949.0	Valve Plug	6
16	8.754-851.0	Plug, Brass G1/4 (16mm)	1
17	8.754-845.0	Washer, Copper G1/4 (16mm Models)	1
18	8.754-854.0	Bolt, Manifold M14 X 40	2

ITEM	PART NO.	DESCRIPTION	QTY
19	8.754-850.0	Washer, Lock	2
20	9.803-198.0	Washer, Copper G3/8	1
21	8.707-262.0	Plug, Brass G3/8	2
22*	See Kits Belo	w Valve Seat	6
23*	See Kits Belo	w Valve Plate	6
24*	See Kits Belo	w Valve Spring	6
25*	See Kits Belo	w Valve Cage	6
26	9.802-939.0	Screw, M6 X 16	8
27	8.717-137.0	Bearing Cover	1
28	9.803-954.0	Bearing Seal	1
29	8.754-843.0	Seal Spacer, Crankshaft	1
30	9.802-914.0	Snap Ring, 25 mm	1
31	9.803-955.0	Bearing, Ball	1
32	8.754-839.0	Shaft, 5/8" Hollow	1
33	8.754-219.0	Oil Dipstick	1
34	8.754-840.0	Bearing Needle	1
35	8.754-826.0	Seal, Crankshaft	1
36	8.754-844.0	Flange, Motor	1
37	9.803-210.0	Washer	10
38	8.752-824.0	Screw, 6 mm	4

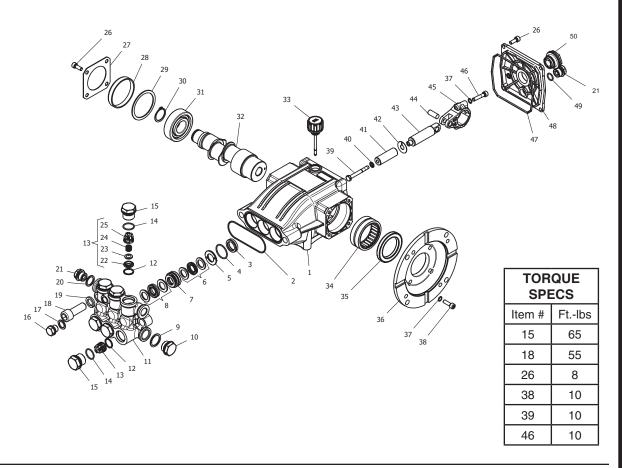
LF3530F SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
39*	8.754-855.0	Bolt, Plunger	3
40*	8.754-092.0	Spacer, Copper	3
41	8.754-849.0	Plunger, 14mm	3
42	9.803-962.0	Spacer, Copper	3
43	8.754-827.0	Plunger Rod	3
44	9.803-965.0	Connecting Rod Pin	3
45	9.803-966.0	Connecting Rod	3
46	8.933-020.0	Screw, Connecting Rod	6
47	8.754-847.0	O-ring Ø2.62 X 111.62	1
48	8.754-842.0	Cover, Crankcase	1
49	9.803-906.0	O-ring Ø1.78 X 14	1
50	9.803-202.0	Sight Glass, G3/4	1

REPAIR KIT NUMBER	8.754-860.0	8.754-861.0	8.754-862.0	8.754-859.0	9.803-937.0
KIT DE- SCRIPTION	Plunger Seals 14 mm	Seal Packing 14 mm	Plunger 14 mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8	4, 5, 6, 7, 8	39, 40, 41, 42	12, 13, 14	3
NO. OF CYLINDERS KIT WILL SERVICE	3	1	1	6	3

LF 2030F SERIES PUMP EXPLODED VIEW

8.953-760.0 LF 2030F



LF SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1
3*	See Kits Belov	w Plunger Oil Seal	3
4*	See Kits Belov	w O-ring Ø1.78 X 26.7	3
5*	See Kits Belov	w Washer, Pressure Ring	3
6*	See Kits Belov	w U-Seal	3
7*	See Kits Belov	w Pressure Ring	3
8*	See Kits Belov	w U-Seal	3
9	9.803-199.0	Washer, Copper G1/2	1
10	9.802-926.0	Plug, Brass G1/2	1
11	8.754-853.0	Manifold	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6	6
13*	See Kits Belov	w Valve Assembly	6
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6
15	9.803-949.0	Valve Plug	6
16	8.754-851.0	Plug, Brass G1/4 (16mm)	1
17	8.754-845.0	Washer, Copper G1/4	
		(16mm Models)	1
18	8.754-854.0	Bolt, Manifold M14 X 40	2
19	8.754-850.0	Washer, Lock	2

ITEM	PART NO.	DESCRIPTION	QTY
20	9.803-198.0	Washer, Copper G3/8	1
21	8.707-262.0	Plug, Brass G3/8	2
22*	See Kits Belo	w Valve Seat	6
23*	See Kits Belo	w Valve Plate	6
24*	See Kits Belo	w Valve Spring	6
25*	See Kits Belo	w Valve Cage	6
26	9.802-939.0	Screw, M6 X 16	8
27	8.717-137.0	Bearing Cover	1
28	9.803-954.0	Bearing Seal	1
29	8.754-843.0	Seal Spacer, Crankshaft	1
30	9.802-914.0	Snap Ring, 25 mm	1
31	9.803-955.0	Bearing, Ball	1
32	8.754-835.0	Shaft, 5/8" Hollow 2030F	1
	8.754-839.0	Shaft, 5/8" Hollow 3530F	1
33	8.754-219.0	Oil Dipstick	1
34	8.754-840.0	Bearing Needle	1
35	8.754-826.0	Seal, Crankshaft	1
36	8.754-844.0	Flange, Motor	1
37	9.803-210.0	Washer	10
38	8.752-824.0	Screw, 6 mm	4

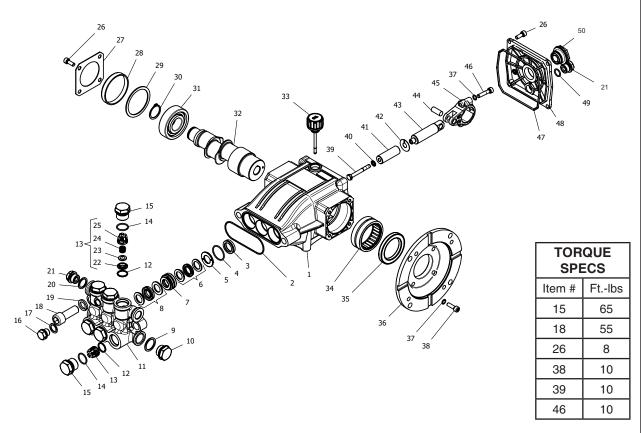
LF SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
39*	8.754-855.0	Bolt, Plunger	3
40*	8.754-092.0	Spacer, Copper	3
41	8.754-849.0	Plunger, 14mm	3
42	9.803-962.0	Spacer, Copper	3
43	8.754-827.0	Plunger Rod	3
44	9.803-965.0	Connecting Rod Pin	3
45	9.803-966.0	Connecting Rod	3
46	8.933-020.0	Screw, Connecting Rod	6
47	8.754-847.0	O-ring Ø2.62 X 111.62	1
48	8.754-842.0	Cover, Crankcase	1
49	9.803-906.0	O-ring Ø1.78 X 14	1
50	9.803-202.0	Sight Glass, G3/4	1

REPAIR KIT NUMBER	8.754-860.0	8.754-861.0	8.754-862.0	8.754-859.0	9.803-937.0
KIT DESCRIPTION	Plunger Seals 14 mm**	Seal Packing 14 mm**	Plunger 14 mm**	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8	4, 5, 6, 7, 8	39, 40, 41, 42	12, 13, 14	3
NO. OF CYLINDERS KIT WILL SERVICE	3	1	1	6	3

LF2830S SERIES PUMP EXPLODED VIEW

8.754-763.0 PUMP, LEUCO LF2830S



LF2830S SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1
3*	See Kit Below	Plunger Oil Seal	3
4*	See Kit Below	O-ring Ø1.78 X 26.7	3
5*	See Kit Below	Washer, Pressure Ring	3
6*	See Kit Below	U-Seal	3
7*	See Kit Below	Pressure Ring	3
8*	See Kit Below	U-Seal	3
9	9.803-199.0	Washer, Copper G1/2	1
10	9.802-926.0	Plug, Brass G1/2	1
11	8.754-852.0	Manifold	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6 6	6
13*	See Kit Below	Valve Assembly	6
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6
15	9.803-949.0	Valve Plug	6
16	8.754-851.0	Plug, Brass G1/4	1
17	8.754-845.0	Washer, Copper G1/4	1
18	8.754-854.0	Bolt, Manifold M14 X 40	2
19	8.754-850.0	Washer, Lock	2

ITEM	PART NO.	DESCRIPTION	QTY
20	9.803-198.0	Washer, Copper G3/8	1
21	8.707-262.0	Plug, Brass G3/8	2
22*	See Kits Belo	w Valve Seat	6
23*	See Kits	Below Valve Plate	6
24*	See Kits	Below Valve Spring	6
25*	See Kits	Below Valve Cage	6
26	9.802-939.0	Screw, M6 X 16	8
27	8.717-137.0	Bearing Cover	1
28	9.803-954.0	Bearing Seal	1
29	8.754-843.0	Seal Spacer, Crankshaft	1
30	9.802-914.0	Snap Ring, 25 mm	1
31	9.803-955.0	Bearing, Ball	1
32	8.754-835.0	Shaft, 5/8" Hollow 2030F	1
	8.754-836.0	Shaft, 5/8" Hollow 2030S	1
	8.754-837.0	Shaft, 5/8" Hollow 2830F	1
	8.754-838.0	Shaft, 5/8" Hollow 2830S	1
	8.754-839.0	Shaft, 5/8" Hollow 3530F	1
33	8.754-219.0	Oil Dipstick	1
34	8.754-840.0	Bearing Needle	1
35	8.754-826.0	Seal, Crankshaft	1

LF2830S SERIES PUMP EXPLODED VIEW PARTS LIST

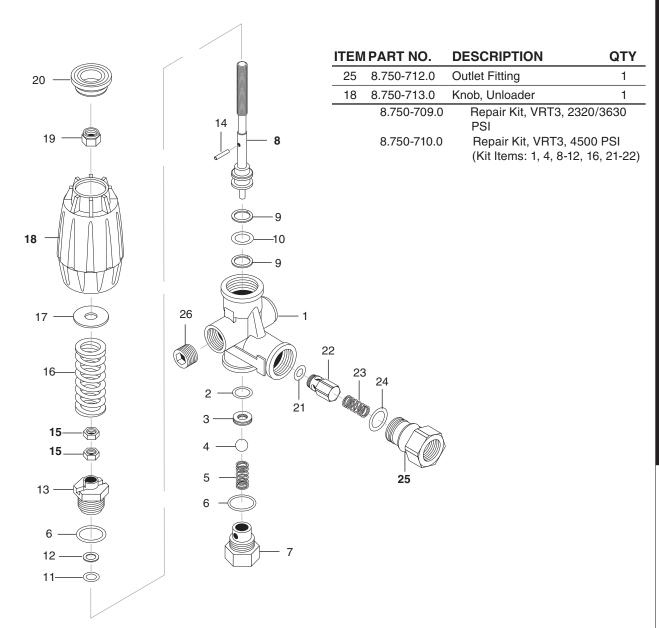
ITEM	PART NO.	DESCRIPTION	QTY
36	8.754-844.0	Flange, Motor	1
37	9.803-210.0	Washer	10
38	8.752-824.0	Screw, 6 mm	4
39*	8.754-855.0	Bolt, Plunger	3
40*	8.754-092.0	Spacer, Copper	3
41 8.7	54-848.0 8.754-849.0	Plunger, 16mm (2030S, 2830S) Plunger, 14mm	3
		(2030F, 2830F, 3530F)	3
42	9.803-962.0	Spacer, Copper	3
43	8.754-827.0	Plunger Rod	3
44	9.803-965.0	Connecting Rod Pin	3
45	9.803-966.0	Connecting Rod	3
46	8.933-020.0	Screw, Connecting Rod	6
47	8.754-847.0	O-ring Ø2.62 X 111.62	1
48	8.754-842.0	Cover, Crankcase	1
49	9.803-906.0	O-ring Ø1.78 X 14	1
50	9.803-202.0	Sight Glass, G3/4	1

REPAIR KITS

REPAIR KIT NUMBER	8.754-860.0	8.754-856.0	8.754-861.0	8.754-857.0	8.754-862.0	8.754-858.0	8.754-859.0	9.803-937.0
KIT DESCRIP- TION	Plunger Seals 14 mm	Plunger Seals 16 mm	Seal Packing 14 mm	Seal Packing 16 mm	Plunger 14 mm	Plunger 16 mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8	4, 6, 8	4, 5, 6, 7, 8	3, 4, 5, 6, 7	39, 40, 41, 42	39, 40, 41, 42	12, 13, 14	3
NO. OF CYLIN- DERS KIT WILL SERVICE	3	3	1	1	1	1	6	3

VRT3 UNLOADER EXPLODED VIEW AND PART S LIST

8.750-299.0, 8 GPM, 4500 PSI



Unloader Adjustment Procedures

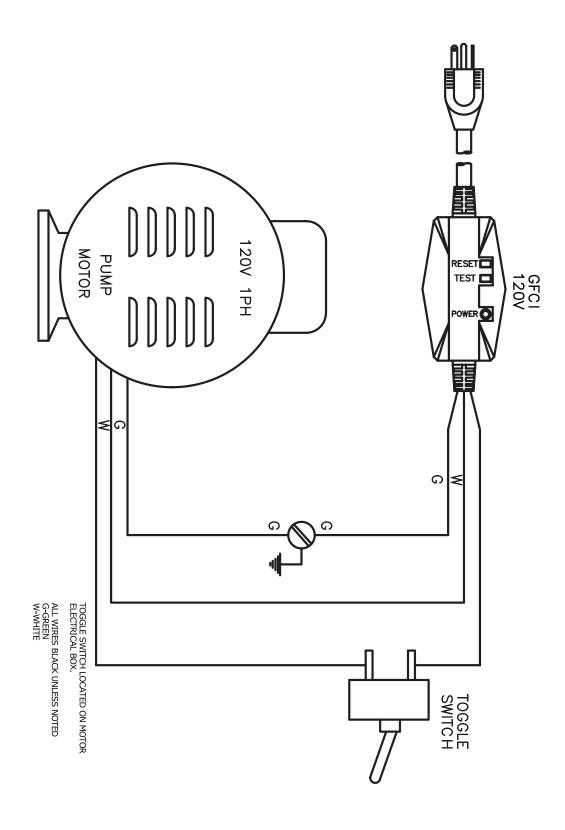
- 1. Remove lock nut (Item 19).
- 2. Remove adjustment knob (Item 18).
- 3. Loosen the two (2) nuts (Item 15), move them upward on stem (Item 8) until you see 4 or more threads below the nut.
- 4. Re-attach adjusting knob (Item 18).
- 5. Start machine. Open the trigger of the spray gun. Increase pressure by turning adjustment knob (Item 18) clockwise until pressure is at the desired operating pressure.
- 6. Remove the adjustment knob (Item 18), tighten the lower nut (Item 15) tightly against the upper nut (Item 15). Reattach adjustment knob (Item 18) and screw down until contact is made with the nuts (Items 15). Screw down lock nut (Item 19) onto the stem (Item 8) until the threads cut into the nylon insert of the lock nut (Item 19).

*If adjustment knob (Item 18) DOES NOT make contact with upper nut (Items 15), remove adjusting knob (Item 18), re-adjust (raise) nuts (Items 15) on stem (Item 8) and re-attach adjustment knob (Item 18), then repeat step #6.

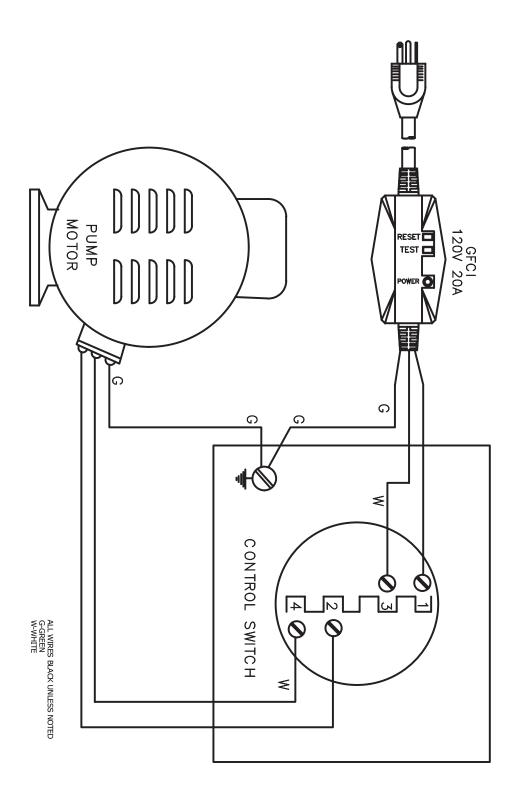
**If adjustment knob (Item 18) DOES make contact with upper nut; release the trigger of the spray gun and watch the pressure gauge for the pressure increase ("spike"). This "spike" SHOULD NOT exceed 500 psi above the operating pressure. If "spike" pressure exceeds the 500 psi limit, remove the adjusting knob (Item 18) and re-adjust (lower) the nuts (Items 15) on the stem (Item 8).

Re-attach the adjusting knob (Item 18), then repeat step #6.

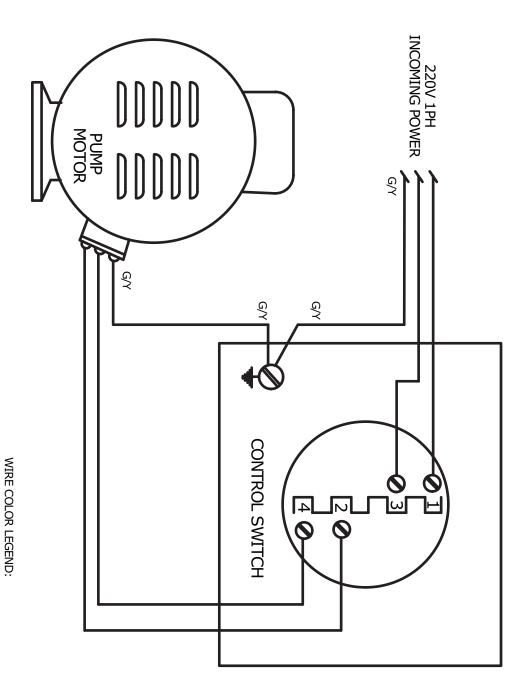
1.106-124.0 HD 2.0/1000 Ed



FOR 1.106-125.0 HD 1.9/1300 Ed FOR 1.106-126.0 HD 3.0/1000 Ea

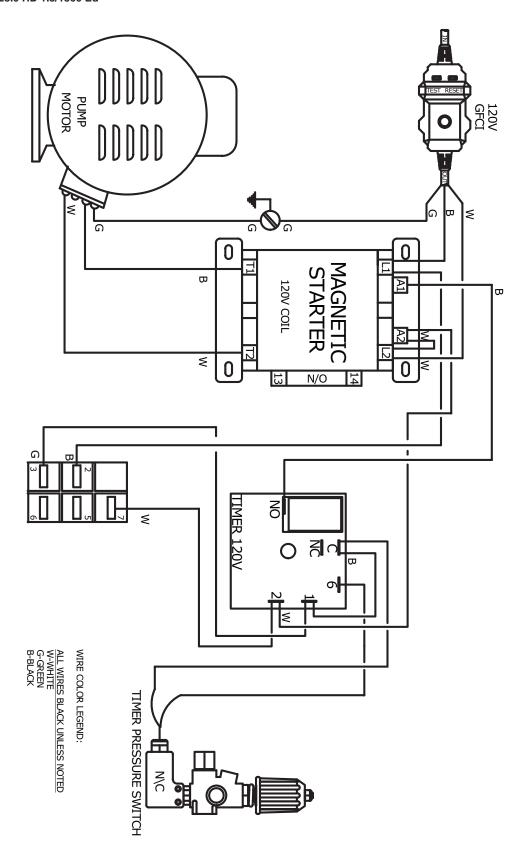


FOR 1.106-127.0 HD 3.5/2000 Ea



ALL WIRES BLACK UNLESS NOTED G/Y-GREEN/YELLOW

FOR 1.106-128.0 HD 1.8/1300 Ed



TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION	
PUMP RUNNING	Pump sucking air	Check water supply and possibility of air seepage.	
NORMALLY BUT	Check valves sticking	Check and clean or replace if necessary.	
PRESSURE LOW ON INSTALLATION	Unloader valve seat faulty	Check and replace if necessary.	
	Nozzle incorrectly sized	Check and replace if necessary.	
	Worn piston packing	Check and replace if necessary.	
FLUCTUATING	Valves worn	Check and replace if necessary.	
PRESSURE	Blockage in valve	Check and replace if necessary.	
	Pump sucking air	Check water supply connections.	
	Worn piston packing	Check and replace if necessary.	
	Insufficient water	Check filter and hose for breakage.	
PRESSURE LOW AFTER	Nozzle worn	Check and replace if necessary.	
PERIOD OF NORMAL	Suction or delivery valves worn	Check and replace if necessary.	
USE	Suction or delivery lines blocked	Check and clean if necessary.	
	Unloader valve seat worn	Check and replace if necessary.	
	Worn piston packing	Check and replace if necessary.	
	Water temperature excessive	Reduce to below 160° F.	
PUMP NOISY		Check water supply and connections on suction	
	Air in suction line	line.	
	Broken or weak suction or delivery valve spring	Check and replace if necessary.	
	Foreign matter in valves	Check and clean if necessary.	
	Worn bearings	Check and replace if necessary.	
	Excessive temperature of water	Reduce to below 160° F.	
PRESENCE OF WATER	Oil seal worn	Check and replace if necessary.	
IN PUMP OIL	High humidity in air	Check and replace if necessary.	
	Piston packing worn	Check and replace if necessary.	
WATER DRIPPING FROM	Piston packing worn	Check and replace if necessary.	
UNDER PUMP	O-ring plunger retainer worn	Check and replace if necessary.	
WATER DRIPPING FROM PUMP PROTECTOR	Water supply pressure too high (over 90 PSI)	Lower water supply pressure using a regulator.	
	Spray gun is in the off position for over 5 minutes	Turn machine off if not in use for over 1-2 minutes.	
OIL DRIPPING	Oil seal worn	Check and replace if necessary.	
EXCESSIVE VIBRATION IN HIGH PRESSURE HOSE	Irregular functioning of the pump valves	Check and replace if necessary.	
MOTOR DOES NOT START WHEN SWITCHED ON	Plug not well connected or lack of power supply	Check plug, cable and switch.	
WHEN SWITCHING ON THE MACHINE, MOTOR	Main voltage is insufficient, lower than the minimum required	Check to make sure main power supply is adequate.	
HUMS BUT DOES NOT RUN	The pump is stuck or frozen	Check by turning the motor manually.	
MOTOR STOPS	Tripped thermal overload due to over- heating	Check that main voltage corresponds to the specifications. Wait a few minutes before turning on the machine again by resetting the GFCI cord.	

PREVENTATIVE MAINTENANCE

PREVENTATIVE MAINTENANCE

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

	MAII	NTENANCE SCHEDULE
Rump Oil	Inspect	Daily inspect the oil level
Pump Oil	Change	After first 50 hours, then every 500 hours or annually
Replace High Pressure Nozzle		Every 6 months
Replace Quick Connects		Annually
Clean Water Screen/Filter		Weekly
Replace HP Hose		Annually if there is any sign of wear
Grease Motor		Every 10,000 hours

OIL CHANGE RECORD

Check pump oil and engine oil level before first use of your new pressure washer.

Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change

Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change