

*All the Parts You Need . . . Before You Need Them!*

2011

**ORIGINAL**  
**S&L**  
**PARTS**

# PARTS REFERENCE GUIDE

FOR  
Wet Well Mounted  
Pump Stations



**Your Helpful Parts Resource**

For S&L Product Codes: 15, 16, 25, 28, 30  
(First Two Numbers of Station Serial Number)

**Smith & Loveless, Inc.**  
[www.smithandloveless.com](http://www.smithandloveless.com)

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 2

## After Market Parts Catalog

# Wet Well Mounted Pump Stations

S&L Product codes: DC, 15, 16, 25, 28, 30 (First Two Numbers of Station Serial Number)

## ALPHABETICAL PARTS LISTING

<u>PART NAME</u>	<u>PAGE</u>
ADAPTER RING, VACUUM DOME .....	39
AIR PRESSURE GAUGES .....	35
ALARM, LIGHT .....	10
ALARM, PUMP FAILURE .....	13
ALARMS .....	10
ALTERNATORS .....	11
BLOWER .....	33
BREAKER MOUNTING STRAPS – “QUICKLAG C” TYPE .....	22
BREAKERS .....	19- 23
BULK HEAD FITTINGS, VACUUM DOMES .....	43
CAPACITOR – RECTIFIER – RESISTOR .....	12
CHECK VALVE DRAIN, FLOAT CHECK VALVE .....	43
CHECK VALVES, FLOAT .....	43, 44
CHECK VALVES, WAFER .....	52
CHECK VALVES, WAFER SPARE PARTS .....	52 - 53
COMPRESSION RING, VACUUM DOME (RETAINER RING) .....	43
CONTACTORS .....	11
CONTINUOUS HINGE & BACKING BAR RETROFIT KIT .....	33
CORD CONNECTOR, FOR FLOAT SWITCH .....	12
CR RELAYS .....	11
DIODE/RECTIFIER .....	14
DOME, RETROFIT ADAPTER RING .....	43
DOME, VACUUM OR ELECTRODE .....	39, 40
DOUBLE BALANCED (High Head) MECHANICAL SEALS .....	31
DRESSOR COUPLING .....	26
DUAL PISTON VACUUM PUMP .....	49, 50
ELECTRODE DOME .....	39
ELECTRODE DOME ASSEMBLIES .....	39
ELECTRODE DOME CONVERSION KIT .....	40- 43
ELECTRODES, ALUMINUM .....	40- 43
ELECTRODES .....	41- 43
ELECTRODE RELAY .....	11, 14, 40
EMERGENCY KIT .....	33
ENCLOSURE (HOOD) .....	35

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 3

<b>PART NAME</b>	<b>PAGE</b>
ER RELAY	11 , 14 , 40
FERRULE	41
FERRULE NUT & SLEEVE	43
FILTERS, VAPOR	51
FITTINGS FOR TUBING	51
FLANGE GASKETS	34
FLOAT (DISPLACEMENT) SWITCHES	11
FLOAT SWITCHES, CORD CONNECTOR	12
FLOAT CHECK VALVES	43 - 44
FRONT HEADS	26 - 29
GAS CYLINDER, BALL STUD & SAFETY CLIP	33
GASKETS	34 (26 - 34)
GASKETS, RECTANGULAR	34
GASKETS, VOLUTE	34
GAUGES, AIR PRESSURE	34
GAUGES, COMBO (VACUUM-AIR PRESSURE)	35
GAUGE, WATER	35
GENERAL LIST OF OTHER POSSIBLE SPARE PARTS	56, 57
GFCI RECEPTACLES	12
GLOBE, FOR ALARM LIGHT	10, 12
HEATER	12
HEATER COILS (OVERLOAD COILS)	18
HINGE, CONTINUOUS	33
H-O-A (HAND-OFF-AUTO) SWITCH	25
HOLLOW ELECTRODES	41
HOOD	35
HOOD LIFT ASSIST RETROFIT KIT	36
HOOD LIFT ASSIST REPLACEMENT SHOCKS	36
HOOD (FIBERGLASS) REPAIR KIT	35
HORN	10
HOW TO CHANGE A SINGLE MECHANICAL SEAL VIDEO	38
IMPELLER BOLTS & WASHERS	26 - 32
IMPELLERS	27 - 32
INDICATOR LIGHT	12
INSULATOR BOOT	42- 43
INTRINSICALLY SAFE RELAY	14
KEYSTOCK (MOTOR SHAFT KEY)	36
LIFTING STANCHION	26
LIGHTNING PROTECTION	12
LIGHTS	12
LIGHTS, ALARM	12

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 4

<b>PART NAME</b>	<b>PAGE</b>
LIGHTS, FIXTURE	12
LINE STRAINER (VAPOR FILTER)	51
LOUVER, AIR VENT FOR HOOD	37
MECHANICAL SEALS, SINGLE	30
MECHANICAL SEAL VIDEO, HOW TO CHANGE	38
MOTOR ADAPTERS	26-29
MOTOR SHAFT KEY (KEYSTOCK)	36
MOTORS	24
MOUNTING STRAP FOR BREAKERS	22
NAME PLATE FOR SERIAL NUMBERS	37
O&M'S	37
OVERLOAD COILS	18
PAINT	37
PHASE MONITOR RELAYS	13
PLUG VALVES	52
PLUG VALVE WRENCH	52
POWER SUPPLY 24 VOLT	13
PRESSURE SWITCH, STATION FLOODING	10,25
PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLES	13
<b>PROTRONIX™ I</b>	13
<b>PROTRONIX™ II</b>	13
PUMP ALTERNATOR	11
PUMP FAILURE ALARM	13
PUMP PARTS & STANDS	26-29
QUICK DISCONNECT FITTINGS	51
RECTIFIER/DIODE – RESISTOR – CAPACITOR	14
REDUCED MAINTENANCE VACUUM PRIMING SYSTEM KITS	40, 44
RELAYS	11-14, 40
RESISTOR – CAPACITOR – RECTIFIER/DIODE	14
RUNNING TIME METER (RUNNING TIME HOUR METER)	14
SEALS, SINGLE MECHANICAL	30
<b>SHADE AIDE™</b>	38
SHOCKS (LOCKING & NON-LOCKING)	36
SINGLE PISTON VACUUM PUMP	48
SINGLE MECHANICAL SEAL	30
SLINGER RINGS (for Motor Shaft)	38
SOLENOID VALVES	15, 45
SOLID ELECTRODE	41
<b>SONIC START®</b> KITS	45
<b>SONIC START®</b> OPERATING MODULE	14, 40
<b>SONIC START®</b> REPLACEMENT PARTS	46
<b>SONIC START®</b> REPLACEMENT PROBE	46
<b>SONIC START®</b> STREAMLINE™ DELAY TIMER	13, 25
<b>SONIC START®</b>	45

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 5

<b>PART NAME</b>	<b>PAGE</b>
SONIC START® VACUUM DOME ASSEMBLY	46
SPARE PARTS, GENERAL LIST OF OTHER POSSIBLE	56, 57
SPARE PARTS, SUGGESTED LIST	55
SPRING LOADED WAFER CHECK VALVE	52
STARTERS	16, 17
STATION FLOODING PRESSURE SWITCH	10, 25
STRAINER, LINE (VAPOR FILTER)	51
SUGGESTED LIST OF SPARE PARTS	55
SWITCHES	25
SWITCHES, FLOAT	11
SWITCHES, PRESSURE	10, 25
TEE	30
TEMPERATURE CONTROL (THERMODISC)	25
THERMOSTAT SWITCH, FOR HEATER	25
TIMER	25
TOGGLE SWITCH (ON/OFF)	25
TOUCH-UP PAINT	37
TRAINING VIDEO, HOW TO CHANGE A SINGLE MECH SEAL	38
TUBING, VACUUM	50
UNAUTHORIZED ENTRY ALARM	10
VACUUM-AIR PRESSURE GAUGES	35
VACUUM DOMES	46, 47
VACUUM PUMP RELAY	11, 14
VACUUM PUMPS	47 - 50
VACUUM TUBING	50
VACUUM TUBING FITTINGS	51
VALVES, FLOAT CHECK	43
VALVES, PLUG	52
VALVES, SOLENOID	45
VALVES, WAFER CHECK VALVE	52
VAPOR FILTERS	51
VENTILATION BLOWER	33
VERSAPOX®, PAINT	37
VIBRATION ISOLATOR	47
VIDEOS – DVD & VHS	38
VOLTAGE SUPPRESSOR	25
VOLUTE GASKETS	34
VOLUTES	26- 29
WAFER CHECK VALVES & SPARE PARTS	52- 54
WATER PROOF – PUMP FAILURE ALARM SWITCH	13

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 6

## After Market Parts Catalog

# Wet Well Mounted Pump Stations

S&L Product codes: 15, 16, 25, 28, 30 (First Two Numbers of Station Serial Number)

<b>PART</b>	<b>PAGE</b>
-------------	-------------

### ELECTRICAL COMPONENTS

ALARMS	10
ALTERNATORS, PUMP	11
CR RELAYS (VACUUM PUMP RELAY)	11
ER RELAYS (ELECTRODE RELAY)	11
FLOAT (DISPLACEMENT) SWITCHES	11
FLOAT SWITCHES, CORD CONNECTOR	12
GFCI RECEPTACLES	12
HEATER	12
LIGHTNING PROTECTION	12
LIGHTS	12
PHASE MONITOR RELAYS	13
POWER SUPPLY 24 VOLT	13
PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLES	13
<b>PROTRONIX™ I</b>	13
<b>PROTRONIX™ II</b>	13
PUMP FAILURE ALARM	13
RECTIFIER(DIODE) – RESISTOR – CAPACITOR	14
RELAYS	14
RUNNING TIME HOUR METER	14
SOLENOID VALVES	15
STARTERS - NEMA	16
STARTERS - IEC	17
OVERLOAD COILS	18
BREAKERS, THREE PHASE MOTOR CIRCUIT BREAKERS	19
BREAKERS, SINGLE PHASE MOTOR CIRCUIT BREAKERS	19
BREAKERS – “QUICKLAG C” TYPE	19-22
BREAKER MOUNTING STRAPS – “QUICKLAG C” TYPE	22
BREAKERS – THERMAL MAGNETIC “EHD” TYPE	23
BREAKERS– MCP MOTOR CIRCUIT PROTECTOR	23
MOTORS	24
TEMPERATURE CONTROL (THERMODISC)	25
TIMER	25
SWITCHES	25
VOLTAGE SUPPRESSOR	25

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 7

**PART**

**PAGE**

## MECHANICAL, PIPING, & PARTS

### PUMP PARTS

*Includes: shaft diameter, impeller, maximum diameter, diameter eye, front head, pump stand, volute, gaskets, motor adapter, impeller bolt, impeller washer.*

4B2B, TURBO 4B2C, 4B2D, 4B3B, 4C2B, 4C2D .....	26
4C3B, 4D3B, 4D4B, 6B3B, 6B3B (SERIES), 6C3B .....	16
6C3B (SERIES), 6D3B, 6D3B (SERIES), 8C4D, 8D4D .....	17

### COUPLING

DRESSOR COUPLING .....	26
LIFTING STANCHION .....	26

### MECHANICAL SEALS

B-SHAFT (1 $\frac{7}{8}$ " ) (Seals & Spare Parts) .....	30
C-SHAFT (2 $\frac{1}{8}$ " ) (Seals & Spare Parts) .....	30
D-SHAFT (3" ) (Seals & Spare Parts) .....	30
TEE, DISCHARGE .....	30
DOUBLE BALANCED (High Head) MECHANICAL SEALS .....	31

<b>VOLUTE GASKETS</b> .....	32
-----------------------------	----

## PUMP IMPELLERS

IMPELLERS .....	32
X-PELLER® IMPELLERS .....	32

## OTHER PARTS

BLOWER .....	33
EMERGENCY KIT .....	33
CONTINUOUS HINGE & BACKING BAR RETROFIT KIT .....	33
GAS CYLINDER, BALL STUD & SAFETY CLIP .....	33
GASKETS .....	34
GASKETS, VOLUTE .....	34
GAUGES, AIR PRESSURE .....	34
GAUGES, COMBO – VACUUM/AIR PRESSURE .....	35
GAUGES, WATER .....	35
HOOD .....	35

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 8

**PART**

**PAGE**

## OTHER PARTS (CONTINUED)

HOOD (FIBERGLASS) REPAIR KIT	35
HOOD LIFT ASSIST RETROFIT KIT	36
HOOD LIFT ASSIST REPLACEMENT SHOCKS	24
KEYSTOCK (MOTOR SHAFT KEY)	36
LOUVER – VENT IN HOOD	37
NAME PLATE FOR S&L SERIAL NUMBERS	37
O&M'S	37
PAINT ( <b>VERSAPOX</b> ® & TOUCH-UP KITS)	37
RECTANGULAR GASKETS	38
<b>SHADE AIDE</b> ™ (HMI SCREEN SUN BLOCKER)	38
SLINGER RINGS (for Motor Shaft)	38
VIDEOS – TRAINING ON SINGLE MECHANICAL SEAL	38

## VACUUM PRIMING SYSTEM

ELECTRODE DOMES	39
ELECTRODE DOME ASSEMBLIES	39
ELECTRODE DOME CONVERSION KITS	40
ELECTRODE RELAYS 0 ER1 & ER2	40
ELECTRODES	41
ELECTRODES - NEW STYLE SOLID SS ELECTRODE	41
ELECTRODES - OLDEST STYLE (FOR DOMES WITH 2 HOLES)	42
ELECTRODES – OLDER STYLE HOLLOW SS ELECTRODE	43
FLOAT CHECK VALVES	43
FLOAT CHECK VALVES – OLDER STYLE	44
SOLENOID VALVES	45
<b>SONIC START</b> ® KITS	45
<b>SONIC START</b> ® REPLACEMENT PARTS	46
<b>SONIC START</b> ® VACUUM DOME ASSEMBLY	46
<b>SONIC START</b> ® VACUUM DOME INDIVIDUAL PARTS - PN87B452A	47
VIBRATION ISOLATOR	47
VACUUM PUMP - HEAVY DUTY - SINGLE PISTON & SPARE PARTS	47
VACUUM PUMP - STANDARD - SINGLE PISTON & SPARE PARTS	48
VACUUM PUMP - HEAVY DUTY - DUAL PISTON & SPARE PARTS	49
OLD VACUUM PUMP DUAL PISTON SPARE PARTS ONLY	50
VACUUM TUBING	50
VACUUM TUBING FITTINGS	51
VAPOR FILTER	51

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 9

## **PART**

## **PAGE**

### **VALVES**

PLUG VALVES .....	52
PLUG VALVE WRENCH .....	52
WAFER CHECK VALVES, SPRING LOADED .....	52
WAFER CHECK VALVES, 4", SPARE PARTS .....	53
WAFER CHECK VALVES, 6", SPARE PARTS .....	54

### **PARTS LIST**

SUGGESTED SPARE PARTS LIST .....	55
GENERAL LIST OF OTHER POSSIBLE SPARE PARTS .....	56 , 57

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 10

## ELECTRICAL COMPONENTS

### ALARMS

PART DESCRIPTION	PART #
Station Flooding Pressure Switch	4L178
Telephone Line 8 Pin Relay for Remote Alarm Panel	4L191
Socket, 8 Pin, for 4L191 relay	5L49B
Horn, 120 VAC, 60 cycle	4L73A
Horn, 12 VDC.	4L73B
Horn, Weatherproof Box	4L73D
RED ALARM LIGHT ASSEMBLY:	
Light, Red 12 VDC	28B580A
Lamp, 12 VDC, 50 W for 28B580A Light	4L120
Light, Red 120 VAC	28B580B
Lamp, 120 VAC, 50 W for 28B580B Light	4L95A
Light Fixture Body for Alarm Light	5L76 *
Light Fixture Adapter for Alarm Light	5L77 *
Red Globe for 5L77 for Alarm Light	5L78B *
Globe Guard for 5L77 for Alarm Light	5L79 *
Trickle Charger (CURRENT) Can be used in place of 4L222	4L222C**
Trickle Charger (OLD STYLE)	4L222

\* **PARTS ORDERING NOTE:** Must identify as either Appleton or Killark

\*\*Consult the factory.

### ALARMS – UNAUTHORIZED ENTRY

PART DESCRIPTION	PART #
Unauthorized Entry Alarm Assembly. Required parts & quantities called out below.	
Right hand switch assembly	87B397A
Cable Assembly	87B365
Flat Washers (2 required)	6L61F
Galvanized Nylock Nut (2 required)	6L104D
Uninsulated Hood Cap Screw (2 required)	6L20CD
Insulated Hood Cap Screw (2 required)	6L20CH
Assembly Drawing (See Section 6)	87B402
Control Panel Requirements:	
Keyed Selector Switch	4L366A
Switch Contact Block	4L14A
On-Delay Timer	4L304A
Timer Base	5L49B

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 11

## ELECTRICAL COMPONENTS (CONTINUED)

### ALTERNATORS, PUMP

PART DESCRIPTION	PART #
Alternator for older stations – plug-in with 12 pin rectangular base (replaces 4L187) <i>(Can also be modified to PN 4L187B. Requires wiring modifications.)</i>	4L187A
Socket Base, 12 pin rectangular, for Alternator 4L187A	5L161
Alternator (orange) for newer stations – plug-in with 11 pin round base	4L187B
Socket Base, 11 pin round, for Alternator 4L187B	5L49C
Alternator/Timer for old stations, 2 Switches, Wire-in 16 Hour (8 on/off) (Replaces Zenith 4L282A)	4L343 *
Alternator/Timer for new stations, 1 Switch, Wire-in 16 Hour (8 on/off)	4L365A
Relay, Alternator	4L105A

\* **PARTS ORDERING NOTE:** Customer will require wiring installation instructions if this replaces a 4L282A

### CONTACTORS

Not descriptive enough. Ask customer if they mean contact terminal block, Auxiliary Relay, Starter, etc.

### CR RELAYS (VACUUM PUMP RELAY)

PART DESCRIPTION	PART #
Relay, for Vacuum Pump (1CR, 2CR)	4L107A
Relay, for Vacuum Pump (1CR, 2CR) "Series Stations"	4L424A

### ER RELAYS (ELECTRODE RELAY)

PART DESCRIPTION	PART #
Relay, for Electrode current style - (1ER, 2ER) (requires modification if replacing 4L29 or 4L408)	4L408H
Relay, for Electrode – (1ER, 2ER) Older Style (determine which part is needed)	4L29* or 4L408
Octal Socket for 4L29 Relay	5L49B

\* If customer switches to 4L408, 4L408H, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

### FLOAT (DISPLACEMENT) SWITCHES

PART DESCRIPTION	PART #
Float Switch (Normally Open <b>Blue</b> ), 30 ft. cord	4L291A
Float Switch (Normally Closed <b>Red</b> ), 30 ft. cord	4L291B
Float Switch (Normally Open <b>Blue</b> ), 45 ft. cord	4L291C
Mercury-Free (Normally Open, Normally Closed) 40ft cord	4L291F

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 12

## ELECTRICAL COMPONENTS (CONTINUED)

### CORD CONNECTOR, FOR FLOAT SWITCHES

PART DESCRIPTION	PART #
Cord Connector, Float Switch Adjustment	5L57C

### GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES

PART DESCRIPTION	PART #
GFCI Receptacle, 15 Amp, Color: Ivory	5L269C
GFCI Receptacle, 20 Amp, Color: Ivory	5L269D
GFCI Receptacle, 20 Amp, Color: Black	5L269E

### HEATER

PART DESCRIPTION	PART #
Heater, Strip/Panel Mount 120 Volt 500 Watt (Replaces 4L276)	4L364
Heater, Strip/Panel Mount with Thermostat – UL Listed 120 Volt 500 Watt	4L364A
Heater, Auxiliary, with Fan, 120 Volt 1320/1650 Watt	4L84
Fan Motor for 4L84 Heater	4L84-1
Thermostat Switch for 4L84 Heater	4L84-2

### LIGHTNING PROTECTION

PART DESCRIPTION	PART #
Surge Capacitor	4L368
Lightning Arrestor	4L369

### LIGHTS

PART DESCRIPTION	PART #
Light, Red Neon, Indicator Light for Panel (Replaces 5L243)	4L293A
RED ALARM LIGHT ASSEMBLY:	
Light, Red 12 VDC	28B580A
Lamp, 12 VDC, 50 W for 28B580A Light	4L120
Light, Red 120 VAC	28B580B
Lamp, 120 VAC, 50 W for 28B580B Light	4L95A
Light Fixture Body for Alarm Light	5L76 *
Light Fixture Adapter for Alarm Light	5L77 *
Red Globe for 5L77 for Alarm Light	5L78B *
Globe Guard for 5L77 for Alarm Light	5L79 *

\* **PARTS ORDERING NOTE:** Must identify as either Appleton or Killark

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 13

## ELECTRICAL COMPONENTS (CONTINUED)

### PHASE MONITOR RELAYS

PART DESCRIPTION	PART #
Phase Monitor, Voltage: 190 to 270	4L336A
Phase Monitor, Voltage: 430 to 480	4L336B

### POWER SUPPLY – 24 VOLT

*Powers all 24 volt panel components*

PART DESCRIPTION	PART #
Power Supply, 24 VDC (2.3 Amp rating)	4L452C

### PRESSURE TRANSDUCERS/SENSORS, SUBMERSIBLE

(Submersible Pressure Transducer hangs down from the pump station and into the wet well, in addition to the float switches used for back-up. Both are used for wet well level sensing.)

PART DESCRIPTION	PART #
0-15 PSI, Submersible Pressure Transducer – 25' Cord (old style) (Old PN: 4L563B-Now 4L563J + reprogrammed E-PROM through Retrofit)	See Retrofit
0-7.5 PSI, Submersible Pressure Transducer – 25' Cord ( <i>Replaces 4L563A</i> ) (CURRENT STYLE)	4L563J

### PUMP FAILURE ALARM

PART DESCRIPTION	PART #
Pump Failure Alarm Retrofit Kit for Relay Logic (two pump – LH & RH)	H87A376
Pump Failure Alarm Retrofit Kit for Relay Logic (one pump – RH only)	H87A383A
Pump Failure Alarm Retrofit Kit for Relay Logic (one pump – LH only)	H87A383B
*Water Proof – Pump Failure Alarm – Switch Only – (one pump - RH only)	87B397A
*Water Proof – Pump Failure Alarm – Switch Only – (one pump – LH only)	87B397B
Pump Failure Alarm Tester	87B399
Time Delay Relay ( <i>1 per pump required if no limit switch already installed</i> )	4L304A
8 Pin Socket ( <i>1 per pump required if no limit switch already installed</i> )	5L49B
Relay ( <i>1 per pump required if no limit switch already installed</i> )	4L264

### PROTRONIX CONTROLLER

PART DESCRIPTION	PART #
PROTRONIX™ II Input/Output Module (8 In/8 Out)	4L536C-2
PROTRONIX™ II Controller - 4L452C-1 (SOLD THRU RETROFIT ONLY)	Call Retrofits

*\*Note: 87B397A & 87B397B are Switch Only & do not include parts required for initial installation of the pump failure alarm. Customer must verify that they have already installed a pump failure alarm. Otherwise, you will either need H87A376, H87A383A, or H87A383B.*

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 14

## ELECTRICAL COMPONENTS (CONTINUED)

### RECTIFIER [DIODE] – RESISTOR – CAPACITOR

(only used with 4L29\* electrode relay)

PART DESCRIPTION	PART #
Rectifier Replacement Kit (includes rectifier [diode], capacitor, & resistor)	80A145
Rectifier [Diode], 2.5 Amp max.	4L119A
Resistor, 5K Ohm, 3¼ Watt	4L278A
Capacitor, 20 MF rating	4L277A

- If customer switches to 4L408, 4L408H, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

### RELAYS

PART DESCRIPTION	PART #
Relay, for Alternator	4L105A
Relay, for Vacuum Pump (1CR, 2CR)	4L107A
Relay, for Vacuum Pump (1CR, 2CR) "Series Stations"	4L424A
Relay, Intrinsically Safe Relay (Replaces 4L279A)	4L374
Relay, for Electrode (1ER, 2ER) Current Style (requires modification if replacing 4L29 or 4L408)	4L408H
Relay, for Electrode – (1ER, 2ER) Older Style (determine which part is needed)	4L29* or 4L408
Octal Socket for 4L29 Relay	5L49B
Relay, <b>SONIC START®</b> Operating Module	4L264S
<b>SONIC START® STREAMLINE™</b> Delay Timer	4L406B

- \* If customer switches to 4L408, 4L408H, or **SONIC START® STREAMLINE™** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

### RUNNING TIME METER

PART DESCRIPTION	PART #
Running Time Meter-NEMA 12- Fits through round hole Door Mount Unit	4L198A
Running Time Meter-NEMA 3R-Rectangular	4L198C

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 15

## ELECTRICAL COMPONENTS (CONTINUED)

### SOLENOID VALVES (IN PORT GOES TO DOME, OUT PORT GOES TO VACUUM PUMP)

PART DESCRIPTION	PART #
<b>SONIC START® STREAMLINE™</b> Vacuum Dome for Pump Stations (NEWEST Solenoid Dome Arrangement)	87B728
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545A remote mounted & used on <b>SONIC START® STREAMLINE™</b> Vacuum Dome
DIN Connector for 1L545A (Required for initial installation of 1L545A)	1L545A-1
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545B mounted through panel & backpan
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
Reduced Maintenance Vacuum Priming System Retrofit Kit	OBSOLETE
2-Way Solenoid Valve (5/16" orifice) (Old PN: H87A343A) (Newest – Upgrade from 1L406A & 1L406E Style)	OBSOLETE
3-Way Solenoid Valve (3/32" orifice) (Replaced Old Style 1L299A, 1L349A & 1L406A) <i>Current S&amp;L standard solenoid valve is the PN 1L545A remote mounted needs DIN connector PN 1L545A-1 or PN1L545B that mounts through control panel and backpan. Conduit built in.)</i>	1L406E
Conduit Nut for 3-Way Solenoid Valve (required when ordering 1L406E first time)	5L13A
Valve Sleeve Wrench for 1L406A	1L406W
Valve Sleeve Wrench for 1L406E	1L406EW

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 16

## ELECTRICAL COMPONENTS (CONTINUED)

NEMA RATED STARTERS – 4L421			
Motor Horsepower	208 Volts	230 Volts	460 Volts
	Part Numbers	Parts Numbers	Parts Numbers
¾ & 1	4L421A	4L421A	4L421A
1.5	4L421A	4L421A	4L421A
2	4L421A	4L421A	4L421A
3	4L421A	4L421A	4L421A
5	4L421B	4L421B	4L421B
7.5	4L421B	4L421B	4L421B
10	4L421C	4L421C	4L421B
15	4L421D	4L421C	4L421C
20	4L421D	4L421D	4L421C
25	4L421D	4L421D	4L421C
30	4L421E	4L421D	4L421D
40	4L421E	4L421E	4L421D
50	4L421F	4L421E	4L421D
60	4L421F	4L421F	4L421E
75	4L421F	4L421F	4L421E
100	Special Order	4L421F	4L421E

**PARTS ORDERING NOTE:** If the customer is replacing older starters with new starters (new part numbers listed above), they will also need to purchase new overload coils.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 17

## ELECTRICAL COMPONENTS (CONTINUED)

### STARTERS – I.E.C. STARTERS – 4L420

MOTOR HORSEPOWER	208 VOLTS		230 VOLTS		460 VOLTS	
	PART #	OPTION #	PART #	OPTION #	PART #	OPTION #
¾ & 1	4L420D	03	4L420D	03	4L420D	03
1½	4L420D	03	4L420D	03	4L420D	03
2	4L420D	03	4L420D	03	4L420D	03
3	4L420D	03	4L420D	03	4L420D	03
5	4L420E	04	4L420D	03	4L420D	03
7½	4L420G	05	4L420E	04	4L420D	03
10	4L420H	06	4L420G	05	4L420D	03
15	USE		4L420H	06	4L420E	04
20			NEMA		4L420G	05
25			RATED			
30					STARTERS	

**PARTS ORDERING NOTE:** If the customer is replacing older starters with new starters (new part numbers listed above), they will also need to purchase new overload coils.

**NOTE:** If there is not a starter listed, use NEMA rated starters.

**Requirements for 208 volts:** 25 hp or higher select 480 volt options as noted.

**Requirements for 230 volts:** 30 hp or higher select 480 volt options as noted.

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 18

## ELECTRICAL COMPONENTS (CONTINUED)

Motor Horsepower	208 Volts	230 Volts	460 Volts
	Part Number	Part Number	Part Number
¾	4L413H	4L416G	4L413E
1	4L413H	4L413H	4L413F
1½	4L413J	4L413J	4L413G
2	4L413K	4L413K	4L413H
3	4L413L	4L413L	4L413J
5	4L413M	4L413M	4L413K
7½	4L413N	4L413N	4L413L
10	4L413P	4L413P	4L413M
15	4L413R	4L413Q	4L413N
20	4L413T	4L413X	4L413P
25	4L413Y	4L413Y	4L413Q
30	4L413Z	4L413Y	4L413W
40	4L413AA	4L413Z	4L413X
50		4L413AA	4L413Y
60			4L413Y
75			4L413Z
100			4L413AA

**PARTS ORDERING NOTE:** If the customer is replacing older starters with new starters (new part numbers listed above), they will also need to purchase new overload coils.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 19

## ELECTRICAL COMPONENTS (CONTINUED)

### THREE PHASE MOTOR CIRCUIT BREAKERS –

Use when increasing or decreasing horsepower.

Motor HP	208 Volts	230 Volts	460 Volts
	Part Numbers	Parts Numbers	Parts Numbers
¾ & 1	4L202B	4L202B	4L258CA
1.5	4L202B	4L202B	4L258CA
2	4L202B	4L202B	4L258CA
3	4L202C	4L202C	4L258CA
5	4L202F	4L202E	4L258CA
7.5	4L202H	4L202H	4L258CB
10	4L202L	4L202K	4L258CE
15	4L202M	4L202M	4L258CG
20	4L202N	4L202N	4L258CH
25	4L164G	4L164G	4L258CJ
30	4L164G	4L164G	4L258CK
40	-	4L164G	4L258CL
50	-	-	4L164F
60	-	-	4L164G
75	-	-	4L164G

REQUIREMENTS FOR 208 VOLTS: 25 HP OR HIGHER SELECT 480 VOLT OPTIONS AS NOTED.

REQUIREMENTS FOR 230 VOLTS: 30 HP OR HIGHER SELECT 480 VOLT OPTIONS AS NOTED.

### SINGLE PHASE MOTOR CIRCUIT BREAKERS –

Use when increasing or decreasing horsepower.

	230 Volts
Motor HP	Parts Numbers
¼	4L218B
1/3	4L218B
½	4L218B
¾	4L218B
1	4L218B
1.5	4L218C
2	4L218E
3	4L218G
5	4L218J

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 20

## ELECTRICAL COMPONENTS (CONTINUED)

### BREAKERS – “QUICKLAG C” TYPE, SINGLE POLE, 5000 AMPERE INTERRUPTING CAPACITY, 120/240 VAC

(TYPICALLY CONTROLS CIRCUIT BREAKER)

PART DESCRIPTION	PART #
5, Continuous Amp Rating	4L82A
10, Continuous Amp Rating	4L82B
15, Continuous Amp Rating	4L82C
20, Continuous Amp Rating	4L82D
25, Continuous Amp Rating	4L82E
30, Continuous Amp Rating	4L82F
35, Continuous Amp Rating	4L82G
40, Continuous Amp Rating	4L82H
50, Continuous Amp Rating	4L82J
55, Continuous Amp Rating	4L82K
60, Continuous Amp Rating	4L82L
70, Continuous Amp Rating	4L82M
100, Non-Automatic	4L82N
Handle Tie (California)	4L82P
30, Continuous MilliAmp Rating	4L82Q
5, Continuous MilliAmp Rating	4L82R

### BREAKERS – “QUICKLAG C” TYPE, AB DE-LON, 2 POLE, 10-100 AMPERES, 240 VAC

(TYPICALLY TRANSFORMER CIRCUIT BREAKER OR SINGLE PHASE  
PUMP MOTORS)

PART DESCRIPTION	PART #
10, Continuous Amp Rating	4L218A
15, Continuous Amp Rating	4L218B
20, Continuous Amp Rating	4L218C
25, Continuous Amp Rating	4L218D
30, Continuous Amp Rating	4L218E
35, Continuous Amp Rating	4L218F
40, Continuous Amp Rating	4L218G
50, Continuous Amp Rating	4L218H
60, Continuous Amp Rating	4L218J
70, Continuous Amp Rating	4L218K
90, Continuous Amp Rating	4L218L
100, Continuous Amp Rating	4L218M
Breaker Handle Lock – “Quicklag C” Type	4L403

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is **required**.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 21

## ELECTRICAL COMPONENTS (CONTINUED)

### BREAKERS – “QUICKLAG C” TYPE, AB DE-LON, 2 POLE, 10-100 AMPERES, 480 VAC

#### (TYPICALLY TRANSFORMER CIRCUIT BREAKER OR SINGLE PHASE PUMP MOTORS)

PART DESCRIPTION	PART #
15, Continuous Amp Rating	4L258BA
20, Continuous Amp Rating	4L258BB
25, Continuous Amp Rating	4L258BC
30, Continuous Amp Rating	4L258BD
35, Continuous Amp Rating	4L258BE
40, Continuous Amp Rating	4L258BF
45, Continuous Amp Rating	4L258BP
50, Continuous Amp Rating	4L258BG
60, Continuous Amp Rating	4L258BH
70, Continuous Amp Rating	4L258BJ
80, Continuous Amp Rating	4L258BQ
90, Continuous Amp Rating	4L258BK
100, Continuous Amp Rating	4L258BL
Breaker Handle Lock – “Quicklag C” Type	4L403

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is **required**.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 22

## ELECTRICAL COMPONENTS (CONTINUED)

### BREAKERS – “QUICKLAG C” TYPE, AB DE-LON, 3 POLE, 10-100 AMPERES, 240 VAC

(TYPICALLY USED WITH 3 PHASE PUMP MOTORS 240 AND BELOW)

PART DESCRIPTION	PART #
10, Continuous Amp Rating *	4L202A **
15, Continuous Amp Rating	4L202B
20, Continuous Amp Rating	4L202C
25, Continuous Amp Rating	4L202D
30, Continuous Amp Rating	4L202E
35, Continuous Amp Rating	4L202F
40, Continuous Amp Rating	4L202G
45, Continuous Amp Rating	4L202P
50, Continuous Amp Rating	4L202H
55, Continuous Amp Rating	4L202J
60, Continuous Amp Rating	4L202K
70, Continuous Amp Rating	4L202L
80, Continuous Amp Rating	4L202Q
90, Continuous Amp Rating	4L202M
100, Continuous Amp Rating	4L202N
Breaker Handle Lock – “Quicklag C” Type	4L403

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is **required**.

### MOUNTING STRAP FOR BREAKERS – “QUICKLAG C” TYPE

PART DESCRIPTION	PART #
Mounting Strap	4L83

\* Not UL Listed

\*\* Low Usage Item

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 23

## ELECTRICAL COMPONENTS (CONTINUED)

### BREAKERS – THERMAL MAGNETIC TYPE EHD, 1/2/3 POLE, 10-100 AMPS (15,000 AMPS INTERRUPTING CAPACITY)

(TYPICALLY USED WITH 3 PHASE PUMP MOTORS 480 VOLT)

AMP RATING @ 40°F (CONT.)	1-POLE 277 VAC (MAX.)	2-POLE 277 VAC (MAX.)	3-POLE 480 VAC (MAX.)
10 *	4L258AN **	4L258BN **	4L258CN **
15	4L258AA	4L258BA	4L258CA
20	4L258AB	4L258BB	4L258CB
25	4L258AC	4L258BC	4L258CC
30	4L258AD	4L258BD	4L258CD
35	4L258AE	4L258BE	4L258CE
40	4L258AF	4L258BF	4L258CF
45	4L258AP	4L258BP	4L258CP
50	4L258AG	4L258BG	4L258CG
60	4L258AH	4L258BH	4L258CH
70	4L258AJ	4L258BJ **	4L258CJ
80	4L258AQ	4L258BQ	4L258CQ
90	4L258AK	4L258BK	4L258CK
100	4L258AL	4L258BL	4L258CL
100 NA	4L258AM	4L258BM	4L258CM
Breaker Handle Lock – “EHD” Type		4L404	

**PARTS ORDERING NOTE:** Each time a Breaker is ordered as a part or with a retrofit, a Breaker Handle Lock is **required**.

### BREAKERS – MCP MOTOR CIRCUIT PROTECTOR, 3-POLE

TRIP RANGE AMPS	CONTINUOUS AMP RATING	PART #
100 – 300	30	4L164D
160 – 480	50	4L164E
275 – 1000	100	4L164F
450 – 1550	150	4L164G
Transformer	Breaker	4L218B

\* Not UL Listed

\*\* Low Usage Item

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 24

## ELECTRICAL COMPONENTS (CONTINUED)

### MOTORS – VERTICAL “P”

BASE PUMP MOTORS, ODP, 3/60/230-460 VOLT			STANDARD SEAL
HORSEPOWER	RPM	OLD PART #	NEW PART #
1 hp, Motor	900	95L39-1	95L39041-3BA002B0
1½ hp, Motor	900	95L39-2	95L39051-3BA002B0
2 hp, Motor	900	95L39-3	95L39061-3BA002B0
2 hp, Motor	1200	95L39-4	95L39161-3BA002B0
3 hp, Motor	900	95L39-5	95L39071-3BA002B0
3 hp, Motor	1200	95L39-6	95L39171-3BA002B0
3 hp, Motor	1800	95L39-28	95L39271-3BA002B0
5 hp, Motor	900	95L39-8	95L39081-3BA002B0
5 hp, Motor	1200	95L39-9	95L39181-3BA002B0
5 hp, Motor	1800	95L39-10	95L39281-3BA002B0
7½ hp, Motor	900	95L39-11	95L39091-3BA002B0
7½ hp, Motor	1200	95L39-12	95L39191-3BA002B0
7½ hp, Motor	1800	95L39-13	95L39291-3BA002B0
10 hp, Motor	900	Consult Factory *	Consult Factory *
10 hp, Motor	1200	95L39-15	95L391A1-3BA002B0
10 hp, Motor	1800	95L39-16	95L392A1-3BA002B0
15 hp, Motor	900	95L39-17	95L390B2-3BA002B0
15 hp, Motor	1200	95L39-18	95L391B2-3BA002B0
15 hp, Motor	1800	95L39-19	95L392B1-3BA002B0
20 hp, Motor	900	Consult Factory *	95L390C3-3BA002B0
20 hp, Motor	1200	Consult Factory *	Consult Factory *
20 hp, Motor	1800	Consult Factory *	Consult Factory *
25 hp, Motor	1200	95L39-23	95L391D3-3BA002B0
25 hp, Motor	1800	95L39-24	95L392D2-3BA002B0
30 hp, Motor	1200	95L39-25	95L391E3-3BA002B0
30 hp, Motor	1800	95L39-26	95L392E2-3BA002B0
40 hp, Motor	1200	95L39-46	95L391F3-3BA002B0
40 hp, Motor	1800	95L39-27	95L392F3-3BA002B0
50 hp, Motor	1200	95L39-47	95L391G3-3BA002B0
50 hp, Motor	1800	95L39-34	95L392G3-3BA002B0
60 hp, Motor	1200	95L39-48	95L391H3-3BA002B0
60 hp, Motor	1800	95L39-52	95L392H3-3BA002B0
75 hp, Motor	1200	95L39-49	95L391J3-3BA002B0
75 hp, Motor	1800	95L39-53	95L392J3-3BA000B0

- Need shaft size confirmation to determine correct motor
- MOTORS — TEFC, Explosion-proof, Immersible call factory for sizing, pricing, and delivery

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 25

## ELECTRICAL COMPONENTS (CONTINUED)

### TEMPERATURE CONTROL (Thermodisc)

PART DESCRIPTION	PART #
Temperature Control, 37° to 52° Heater	4L135B
Temperature Control, 90° to 75° Blower	4L135C

### TIMER (also see Alternators)

PART DESCRIPTION	PART #
Timer/Alternator for new stations, 2 Switches, Wire-in 16 Hour (8 on/off) (Replaces Zenith 4L282A)	4L343 *
Timer/Alternator for new stations, 1 Switch, Wire-in 16 Hour (8 on/off)	4L365A
Timer, 2 second delay (for 4L408 Electrode Relay)	4L406
Timer (small blue) with knob, 8 pin, 0.1 sec – 10 min on delay	4L304A
<b>SONIC START® STREAMLINE™</b> Delay Timer	4L406B

\* **PARTS ORDERING NOTE:** Customer will require wiring installation instructions if this replaces a 4L282A

### SWITCHES

PART DESCRIPTION	PART #
Alternator Selector Switch (4L207A, replaced by 4L23)	See 4L23
Float Switch (Normally Open <b>Blue</b> ), 30 ft. cord	4L291A
Float Switch (Normally Closed <b>Red</b> ), 30 ft. cord	4L291B
Float Switch (Normally Open <b>Blue</b> ), 45 ft. cord	4L291C
H-O-A Toggle Switch (3 Position), SPDT	4L272A
Station Flooding Pressure Switch	4L178
Thermostat Switch for Heater	4L84-2
Toggle Switch (On/Off), SPST (Not UL Listed) (replaces 4L207A)	4L23

### VOLTAGE SUPPRESSOR

PART DESCRIPTION	
Voltage Suppressor 4L139A - No longer used or required. Need to upgrade electrode relays to PN: 4L408H	OBSOLETE

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 26

## MECHANICAL, PIPING, & PARTS

### COUPLING – TRANSITION COUPLING

PART DESCRIPTION	PART #
4" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L120A
4" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120AA
4" Nominal Pipe Size (Steel to Steel or PVC)	2L120AAA
6" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L20B
6" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120BB
6" Nominal Pipe Size (Steel to Steel or PVC)	2L120BBB
8" Nominal Pipe Size (Ductile Iron to Ductile Iron)	2L120C
8" Nominal Pipe Size (Ductile Iron to Steel or PVC)	2L120CC
8" Nominal Pipe Size (Steel to Steel or PVC)	2L120CCC

### LIFTING STANCHION

PART DESCRIPTION	PART #
Lifting Stanchion *	87B39A
Lifting Stanchion Connecting Pipe *	87B39B

**\*PARTS ORDERING NOTE:** Requires both the Lifting Stanchion & Lifting Stanchion Connecting Pipe to make one (1) Lifting Stanchion that inserts into the stanchions Lifting Stanchion Sleeve.

PUMP PARTS	4B2B Pump	TURBO 4B2C Pump	4B2D Pump
<i>VERIFY ALL CASTED PARTS WITH FACTORY</i>			
Shaft Diameter	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>7</sup> / <sub>8</sub> "
Impeller, CW (Clockwise)	60D21	87D103	60C76
Impeller, CCW (Counter-Clockwise)	60D42	87D104	60C75
Maximum Diameter	10 <sup>1</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>8</sub> "
Diameter Eye	4"	-	4"
Front Head	87C1-300	Part of Volute	4"- 87C1-300
Pump Stand	None	None	None
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	87D3-300	60D230-300 (CW) 60D231-300 (CCW)	87D3-300
Volute Gasket (1/64 & 1/16 thickness available)	60A26 (1/32)	60A26 (1/32)	60A26 (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	60B165A-300	60B165A-300	60B165A-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 27

## MECHANICAL, PIPING, & PARTS (CONTINUED)

<b>PUMP PARTS</b>	<b>4B3B Pump</b>	<b>4C2B * Pump</b>	<b>4C2D * Pump</b>
<b>VERIFY ALL CASTED PARTS WITH FACTORY</b>			
Shaft Diameter	1 7/8"	2 1/8"	2 1/8"
Impeller, CW (Clockwise)	60D43	60D63	60C77
Impeller, CCW (Counter-Clockwise)	60D1	60D64	60C78
Maximum Diameter	12"	10 1/8"	10 1/8"
Diameter Eye	4"	4"	4"
Front Head	4" – 60C85-300 6" – 60C87-300	4" – 87C1-300 87C200-300 ** 60C156-300 ***	4" – 87C1-300 87C200-300 ** 60C156-300 ***
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	87D133-300	60D7-300 ** 87D3-300	60D7-300 ** 87D3-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32)	60A26 (1/32)	60A26 (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	60B165D-300****	60B165B-300	60B165B-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

\* Used only for 20 HP @ 1800 RPM Motors    \*\* Used on 4\_\_2\_\_ pumps in 3-pump WWMPS    \*\*\* Used on 4\_\_2\_\_ pumps in 2-Pump WWMPS

\*\*\*\* Consult the Factory for 20HP, 1800 RPM Motors

**PARTS ORDERING NOTE:** Remind customer that gaskets may be needed when ordering casted parts

<b>PUMP PARTS</b>	<b>4C3B Pump</b>	<b>4D3B Pump</b>	<b>4D4B Pump</b>
<b>VERIFY ALL CASTED PARTS WITH FACTORY</b>			
Shaft Diameter	2 1/8"	3"	3"
Impeller, CW (Clockwise)	60D44	60D129	60D259
Impeller, CCW (Counter-Clockwise)	60D23	60D193	60D258
Maximum Diameter	12"	12"	"
Diameter Eye	4"	4"	"
Front Head	4" – 60C85-300 6" – 60C87-300	4" – 60C85-300 6" – 60C87-300	4" – n/a 6" – 60B124-300
Pump Stand	None	None	None
Volute (Some pumps have integral front heads. Call Factory before ordering to verify.)	87D133-300	87D133-300	60D252-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32)	60A28 (1/32)	60A106B (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	60B165E-300****	60B165M-300	60B118-300
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86

\*\*\*\* Consult the Factory for 20HP, 1800 RPM Motors

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 28

## MECHANICAL, PIPING, & PARTS (CONTINUED)

<b>PUMP PARTS</b> <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	<b>6B3B</b> <b>Pump</b>	<b>6B3B (Series)</b> <b>Pump</b>	<b>6C3B</b> <b>Pump</b>
Shaft Diameter	17/8"	17/8"	21/8"
Impeller, CW (Clockwise)	60D45	60D45	60D47
Impeller, CCW (Counter-Clockwise)	60D34	60D34	60D46
Maximum Diameter	12"	12"	12"
Diameter Eye	51/8"	51/8"	51/8"
Front Head	60C88-300	87C94-300 *	60C88-300
Pump Stand	None	None	None
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	87D78-300	60D35-300 *	87D78-300
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32)	60A28 (1/32)	60A28 (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	87D77-300	60B165D-300 *	87D98-300
Impeller Bolt	60A12	60A12	60A12
Impeller Washer	60A20	60A20	60A20

\* Differences in **Series Pump**

**PARTS ORDERING NOTE:** Remind customer that gaskets may be needed when ordering casted parts

<b>PUMP PARTS</b> <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	<b>6C3B (Series)</b> <b>Pump</b>	<b>6D3B</b> <b>Pump</b>	<b>6D3B (Series)</b> <b>Pump</b>
Shaft Diameter	21/8"	3"	3"
Impeller, CW (Clockwise)	60D47	60D90	60D90
Impeller, CCW (Counter-Clockwise)	60D46	60D192	60D192
Maximum Diameter	12"	12"	12"
Diameter Eye	51/8"	51/8"	51/8"
Front Head	87C94-300 *	60C88-300	87C94-300 *
Pump Stand	None	None	None
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D35-300 *	87D78-300	60D35-300 *
Volute Gasket (1/64 & 1/16 thickness available)	60A28 (1/32)	60A28 (1/32)	60A28 (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	60B165E-300 *	87D107-300	60B165M-300 *
Impeller Bolt	60A12	60A87	60A87
Impeller Washer	60A20	60A86	60A86

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 29

## MECHANICAL, PIPING, & PARTS (CONTINUED)

<b>PUMP PARTS</b> <i>VERIFY ALL CASTED PARTS WITH FACTORY</i>	<b>8C4D</b> <b>Pump</b>	<b>8D4D</b> <b>Pump</b>
Shaft Diameter	2 1/8"	3"
Impeller, CW (Clockwise)	60D178	60D150
Impeller, CCW (Counter-Clockwise)	60D179	60D151
Maximum Diameter	15"	15"
Diameter Eye	7"	7"
Front Head	8" – 60C155-300	8" – 60C155-300
Pump Stand	None	None
Volute <i>(Some pumps have integral front heads. Call Factory before ordering to verify.)</i>	60D211-300	60D211-300
Volute Gasket (1/64 & 1/16 thickness available)	60A88 (1/32)	60A88 (1/32)
Volute/Elbow Gasket (Rectangular)	87A11	87A11
Volute/Base Gasket (Replaces 87A63)	60A108	60A108
Motor Adapter – Also sell s/n name plate PN 12L172	60B165P-300	60B165P-300
Impeller Bolt	60A12	60A87
Impeller Washer	60A20	60A86

\* Differences in Series Pump

**PARTS ORDERING NOTE:** Remind customer that gaskets may be needed when ordering casted parts

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 30

## MECHANICAL, PIPING, & PARTS (CONTINUED)

### MECHANICAL SEALS - SINGLE

SEAL & SPARE PARTS	B-SHAFT 1 7/8"	C-SHAFT 2 1/8"	D-SHAFT3"
<b>Seal Kit, Single Mechanical Seal</b>	H87A28	H87A97	H87A182
Bronze Seal Housing	87B2	87B19***	87B73***
<b>Seal Housing – Flat Gasket **</b>	60A11	60A17	60A84
<b>Seal Housing – Quad Ring **</b>	60A110	60A111	60A146
Ceramic Rotating Wear Ring	60A32 *	60A33 *	60A85 *
Carbon Stationary Wear Ring	60A36 *	60A37 *	60A52 *
Rotating O-Ring	60A39 *	60A41 *	60A53 *
Stationary Quad Ring	60A38 *	60A40 *	60A54 *
Spring	60A30 *	60A31 *	60A55 *
<b>Impeller Bolt</b>	60A12	60A12	60A87
<b>Impeller Washer</b>	60A20	60A20	60A86
<b>Volute Gasket</b>	See Volute Gasket Table		

\* Parts contained in H87A28, H87A97, or H87A182 Mechanical Seal Kits

**PARTS ORDERING NOTE:** Each time the impeller bolt is removed (required for seal replacement), Smith & Loveless recommends installation of a new impeller bolt that has the imbedded Nylock.

**PARTS ORDERING NOTE:** Each time a new seal, ceramic, carbon or spring is installed, a volute gasket, seal housing gasket or quad ring, and impeller bolt are recommended.

\*\* **PARTS TIP: Seal Housing – Flat Gasket vs. Quad Ring:** The older seal housing has a flat surface and uses the flat gasket for both the single and double mechanical seals. The newer seal housing has a groove and it can use either the flat gasket or the quad ring.

\*\*\* **SEAL HOUSING:** Call factory for different seal housings for 4-frame pumps.(4B4B, 6C4V)

\*\*\*\***BOLDED PARTS:** Always quote all bolded parts when quoting a mechanical seal kit.

### TEE - DISCHARGE

PART DESCRIPTION	PART #
Discharge Tee – slightly angled (Only used with Old Style 15's with piping below the baseplate). See drawing 87D32 Pretest Assembly	87C9-300
4" Nominal Pipe Size	2L12A
6" Nominal Pipe Size	2L12B
8" Nominal Pipe Size	2L12C

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 31

## MECHANICAL, PIPING, & PARTS (CONTINUED)

### DOUBLE BALANCED (FOR OVER 200' TDH\*\*\*\*) MECHANICAL SEALS

SEAL & SPARE PARTS (HIGH HEAD SEALS – For Over 200' TDH**** or Series P.S.)	C-SHAFT 2-1/8"	D-SHAFT 3"
<b>Seal Kit, Mechanical Seal – Double Balanced (DOES NOT INCLUDE BALANCE SLEEVE)</b>	H60A156	H60A137
Complete Assembly including Bronze Seal Housing & Mechanical Seal (Parts include Upper Housing thru Lower Housing) (Order one extra Seal Housing Quad Ring)	87C425	87C427
Bronze Seal Housing, Upper	60C94	60C96
Bronze Seal Housing, Lower	60C95	60C97
<b>Seal Housing Gasket - Flat ***</b>	60A17	60A84
<b>Seal Housing Gasket - Quad Ring ***</b>	60A111	60A112
Ceramic Rotating Wear Ring (requires 2)	60A155 *	60A85 *
Carbon Stationary Wear Ring (requires 2)	60A153 *	60A136 *
Stationary Quad Ring (requires 2)	11L47E *	60A54 *
Spring	60A154 *	60A135 *
O-Ring-Balance Sleeve, Inner (D-Shaft – new style sleeve 60C112/B requires 2, old style sleeve 60C112/A requires 1)	11L207C *	11L207A *
O-Ring Balance Sleeve, Outer (Both old & new require two out O-Rings)	11L207D *	11L207B *
Balance Sleeve	60C159**	60C112**
<b>Impeller Bolts</b>	60A12	60A87
<b>Impeller Washer</b>	60A20	60A86
<b>Volute Gaskets</b>	See the Volute Gasket Table	

**BOLDDED PARTS:** Always quote all bolded parts when quoting a mechanical seal kit.

\* Parts contained in H60A156 or H60A137 Double Balanced Mechanical Seal Kits

\*\* **PARTS ORDERING NOTE:** Each time the balance sleeves are replaced, new Balance Sleeve O-Rings are recommended.

**PARTS ORDERING NOTE:** Each time the impeller bolt is removed (required for seal replacement), Smith & Loveless recommends installation of a new impeller bolt that has the imbedded Nylock.

**PARTS ORDERING NOTE:** Each time a new seal, ceramic, carbon or spring is installed, a volute gasket, seal housing gasket or quad ring, and impeller bolt are recommended.

\*\*\* **PARTS TIP: Seal Housing – Flat Gasket vs. Quad Ring:** The older seal housing has a flat surface and uses the flat gasket for both the single and double mechanical seals. The newer seal housing has a groove and it can use either the flat gasket or the quad ring.

\*\*\*\* **NOTE:** Series 4 Pump C&D Shaft WWMPs-See Factory. High Head Seals on Second Stage Pumps may be required For Over 200'TDH. Add Pump 1 & Pump 2 TDH together to determine if more than 200'TDH. See Factory.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 32

## MECHANICAL, PIPING, & PARTS (CONTINUED)

GASKETS, VOLUTE PUMP SIZE	STANDARD GASKET PART #	OTHER GASKETS 1/64" & 1/16" THICKNESS
4B2B, TURBO 4B2C, 4B2D, 4C2B, 4C2D	60A26 (1/32)	60A27 (1/16")
4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B(& SERIES)	60A28 (1/32)	60A29 (1/16")
4D4B	60A106B (1/32)	60A106A (1/64") 60A106C (1/16")
8C4D, 8D4D	60A88 (1/32)	60A90 (1/64") 60A89 (1/16")

**PARTS ORDERING NOTE:** New volute gasket is required each time the rotating assembly (motor, impeller, mechanical seals, &/or volute) is disassembled.

## PUMP IMPELLERS

PUMP MODEL	CLOCKWISE PART #	COUNTER CLOCKWISE PART #	ADDITIONAL PARTS 1 SET PER IMPELLER PART#
4B2B	60D21	60D42	60A12, 60A20, 60A26
TURBO 4B2C	87D103	87D104	60A12, 60A20, 60A26
4B2D	60C76	60C75	60A12, 60A20, 60A26
4B3B	60D43	60D1	60A12, 60A20, 60A28
4C2B	60D63	60D64	60A12, 60A20, 60A26
4C2D	60C77	60C78	60A12, 60A20, 60A26
4C3B	60D44	60D23	60A12, 60A20, 60A28
4D3B	60D129	60D193	60A87, 60A86, 60A28
4D4B	60D259	60D258	60A87, 60A86, 60A106B
6B3B (& SERIES)	60D45	60D34	60A12, 60A20, 60A28
6C3B (& SERIES)	60D47	60D46	60A12, 60A20, 60A28
6D3B (& SERIES)	60D90	60D192	60A87, 60A86, 60A28
8C4D	60D178	60D179	60A12, 60A20, 60A88
8D4D	60D150	60D151	60A87, 60A86, 60A88

## PUMP X-PELLER® IMPELLERS - VACUUM PRIMED

PUMP MODEL	MOTOR RPM	CLOCKWISE PART #	COUNTER CLOCKWISE PART #	ADDITIONAL PARTS 1 SET PER IMPELLER PART#
4B2X	900	60B121C	60B122C	60A12, 60A20, 60A26
4B2X	1200	60B121B	60B122B	60A12, 60A20, 60A26
4B2X	1800	60B121A	60B122A	60A12, 60A20, 60A26
4C2X	1800	60B144	60B145	60A12, 60A20, 60A26

**PARTS ORDERING NOTE:** When ordering & replacing standard impeller with X-PELLER® call factory for sizing & trim requirements.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 33

## OTHER PARTS

### BLOWER

PART DESCRIPTION	PART #
Blower – 265 CFM (Newer Stations)	7L195
Blower – Squirrel Cage – 110 CFM (Older Stations)	7L40
Louver for Vent in Hood	11L138A
Air Discharge Seal (the seal between blower & hood)	87A86

### EMERGENCY KIT

PART DESCRIPTION	PART #
Float Switch *	Normally Open: 4L291A Normally Closed: 4L291B
Control Relay	4L107A
Electrode Relay	4L408H
Mechanical Seal	(see page 30)
Solenoid Valve *	1L406E, 1L545A or 1L545B
Vacuum Dome (replaces 87B133, 87B133A)	87B133B
Ferrules, 3/8"	1L366C
Vacuum Pump *	1 Cylinder (Single Piston): 8L29 or 8L44 2 Cylinder (Dual Piston): 8L32**

\* SELECT THE PART(S) NEEDED FOR THE SPECIFIC INSTALLATION

\*\* SEE SECTION 6 FOR COMBINED EXHAUST CONFIGURATION

### CONTINUOUS HINGE & BACKING BAR RETROFIT KIT

HOOD SIZES	PART #
49" W x 64" L	SMALL
62" W x 64" L or 62" W x 70" L	LARGE

### GAS CYLINDER, BALL STUD & SAFETY CLIP

PART DESCRIPTION	PART #
13MM Ball Stud	11L241AA
10MM Ball Stud	11L241BB
Safety Clip	11L241CC

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 34

## OTHER PARTS (CONTINUED)

GASKETS	
PART DESCRIPTION	PART #
4" & 6" Volute/Discharge Elbow Gasket (Rectangular)	87A11
4" Flange Gasket (check valves & suction/discharge piping)	11L1A
6" Flange Gasket (check valves & suction/discharge piping)	11L1C
8" Flange Gasket (check valves & suction/discharge piping)	11L1D
10" Flange Gasket (check valves & suction/discharge piping)	11L1E
12" Flange Gasket (check valves & suction/discharge piping)	11L1F
14" Flange Gasket (check valves & suction/discharge piping)	11L1G
Volute/Base Gasket (Replaces 87A63 O-Ring)	60A108
Seal Housing Gasket - Flat *	B Shaft: 60A11
	C Shaft: 60A17
	D Shaft: 60A84
Seal Housing Gasket - Quad Ring *	B Shaft: 60A110
	C Shaft: 60A111
	D Shaft: 60A146

\* **PARTS TIP: Seal Housing Gasket - Flat vs. Quad Ring:** The older seal housing has a flat surface and uses the flat gasket for both the single and double mechanical seals. The newer seal housing has a groove and it can use either the flat or the quad ring gasket.

GASKETS, VOLUTE PUMP SIZE	STANDARD GASKET PART #	OTHER GASKETS 1/64" & 1/16" THICKNESS
4B2B, TURBO 4B2C, 4B2D, 4C2B, 4C2D	60A26 (1/32)	60A27 (1/16")
4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B(& SERIES)	60A28 (1/32)	60A29 (1/16")
4D4B	60A106B (1/32)	60A106A (1/64") 60A106C (1/16")
8C4D, 8D4D	60A88 (1/32)	60A90 (1/64") 60A89 (1/16")

**PARTS ORDERING NOTE:** New volute gasket is required each time the rotating assembly (motor, impeller, mechanical seals, &/or volute) is disassembled.

GAUGES, AIR PRESSURE	
PART DESCRIPTION	PART #
0 – 60 PSI with 3½" Dial	1L84E
0 – 60 PSI with 4½" Dial	1L84H

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 35

## OTHER PARTS (CONTINUED)

GAUGES, COMBO VACUUM-AIR PRESSURE	STANDARD	GLYCERIN-FILLED
PART DESCRIPTION	PART #	PART #
Handles Up To 65 TDH (0-30" HG: 0-30 PSI) (Old P/N 1L275CB)	OBSOLETE	1L780B
Handles Up To 135 TDH (0-30" HG: 0-60 PSI) (Old P/N 1L275DB)	OBSOLETE	1L780C
Handles Up To 230 TDH (0-30" HG: 0-100 PSI) (Old P/N 1L275EB)	OBSOLETE	1L780D
Gauge Guard (built into new gauges, Only needed on new gauges if extra protection is desired.)	1L372A	1L372A

\* **4" diameter dial (Customer must verify fit. If smaller dial is needed, contact factory)**

**PARTS ORDERING TIP:** If no gauge is currently in use, order 1L780C. Consult Factory

GAUGE, WATER	PART #
PART DESCRIPTION	PART #
0 – 200 Inches with 2½" Dial	1L119D

HOOD	PART #
PART DESCRIPTION	PART #
Fiberglass Hood - <b>MUST</b> also sell s/n name plate PN 12L173	Consult Factory

**NOTE:** Hardware (louvers, hinges, & handle) not included with the hood - must be requested separately.

**NOTE TO REPS:** PLEASE BE SURE TO OFFER HOOD LIFT ASSIST AND CONTINUOUS  
HINGE & BACKING BAR RETROFIT KITS WHEN REPLACING A HOOD

HOOD (FIBERGLASS) REPAIR KIT	PART #
PART DESCRIPTION	PART #
Fiberglass Hood Repair Kit (1 pt. S&L light green gel coat, 1 pt. Polyester resin, 3 sq. ft. fiberglass mat.) Recommend selling s/n name plate at same time.	12L257A

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 36

## OTHER PARTS (CONTINUED)

### HOOD LIFT ASSIST RETROFIT KIT

HOOD SIZE	HOOD TYPE	PART #
49" W x 64" L	Non-Insulated	LIFTASSIST
49" W x 64" L	Insulated	LIFTASSIST
62" W x 64" L	Non-Insulated	LIFTASSIST
62" W x 64" L	Insulated	LIFTASSIST
62" W x 70" L	Non-Insulated	LIFTASSIST
62" W x 70" L	Insulated	LIFTASSIST

### HOOD LIFT ASST REPLACEMENT SAFETY CLIP & BALL STUD

PART DESCRIPTION	PART #
Safety Clip	11L241CC
13MM Ball Stud	11L241AA
10MM Ball Stud	11L241BB

### HOOD LIFT ASSIST REPLACEMENT SHOCKS

PART DESCRIPTION	HOOD SIZE	PART #
<b>Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Blue)</i>	49" W x 64" L	11L241H
<b>Non-Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Blue)</i>	49" W x 64" L	11L241K
<b>Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Orange)</i>	62" W x 64" L	11L241N
<b>Non-Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Orange)</i>	62" W x 64" L	11L241M
<b>Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Orange)</i>	62" W x 70" L	11L241N
<b>Non-Locking</b> Hood Lift Assist Replacement Gas Shock <i>(Label Color Orange)</i>	62" W x 70" L	11L241M

### KEYSTOCK (MOTOR SHAFT KEY)

PART DESCRIPTION	PART #
B Shaft	95L39-0
C Shaft	95L39-0
D Shaft	95L39-01

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 37

## OTHER PARTS (CONTINUED)

### LOUVER – VENT IN HOOD

PART DESCRIPTION	PART #
Louver for Vent in Hood	11L138A
Seal for Louver (Placed between louver & fiberglass)	87A86
Blower – 265 CFM (Newer Stations)	7L195
Blower Mounting Plate	84A130
Blower – Squirrel Cage – 110 CFM (Older Stations)	7L40

### NAME PLATE, FOR S&L SERIAL NUMBER

PART DESCRIPTION	PART #
Name Plate for Hood	12L173
Name Plate for Motor Adapter (includes addition of GPM @ ' TDH)	12L172

### O&M'S

PART DESCRIPTION	PART #
O&M's – Requires Job Serial Number	O&MMANUAL

### PAINT (VERSAPOX) & TOUCH-UP KITS

PART DESCRIPTION	PART #
Aquamarine <b>VERSAPOX</b> ®, Part A, Gallon	12L181B *
Light Green <b>VERSAPOX</b> ®, Part A, Gallon	12L109B *
Dark S&L Green <b>VERSAPOX</b> ®, Part A, Gallon	12L104B *
Catalyst, <b>VERSAPOX</b> ®, Part B, Gallon	12L105B
Primer (RED), Part A, Gallon	12L138A *
Primer Catalyst, Part B, Gallon	12L138B
Touch-Up Paint Kit – Aquamarine	H87A424
Touch-Up Paint Kit – Light Green	H87A426
Touch-Up Paint Kit – Georgian Hemlock	H87A425

\* Order one gallon of Catalyst Part B for each gallon of paint/primer – must be mixed before use.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 38

## OTHER PARTS (CONTINUED)

### RECTANGULAR GASKETS

PART DESCRIPTION	PART #
4" & 6" Volute/Discharge Elbow Gasket (Rectangular)	87A11

### SHADE AIDE™ (HMI SCREEN SUN BLOCKER)

PART DESCRIPTION	PART #
SHADE AIDE™ Kit, Small (covers HMI Screen 9.5" W x 7" H)	H87A379
SHADE AIDE™ Kit, Large (covers HMI Screen 15" W x 10" H)	87B558
Gasket, for Large Kit required on NEMA 4X panels (optional)	87A400

## OTHER PARTS (CONTINUED)

### SLINGER RINGS (FOR MOTORS)

PART DESCRIPTION	PART #
B Shaft	95L39-B
C Shaft	95L39-C
D Shaft	95L39-D

### VIDEOS - TRAINING

PART DESCRIPTION	PART #
How To Replace the Single Mechanical Seal – DVD Format	12L318DVD-1
How To Replace the Single Mechanical Seal – VHS Format	12L318VHS-1

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 39

## VACUUM PRIMING SYSTEM

### DELAY TIMER – SONIC START® STREAMLINE™

PART DESCRIPTION	PART #
SONIC START® STREAMLINE™ Delay Timer – Required for SONIC START® STREAMLINE™ <i>Comes standard in the H87A391J &amp; H87A457 upgrade kits.</i>	4L406B

### ELECTRODE DOMES – VACUUM DOMES

PART DESCRIPTION	PART #
Electrode Dome (one hole at top)	87B133B
Vacuum Dome (one hole at top)	87B133B
Aluminum Electrode Dome (two holes at top) <i>(old P/N 87B15 no longer available, order H87A329 1<sup>st</sup> time for conversion to electrode or H87A391F for conversion to SONIC START®)</i>	OBSOLETE <i>(Order H87A329)</i>

### ELECTRODE DOME ASSEMBLIES – VACUUM DOME ASSEMBLIES

PART DESCRIPTION	PART #
Electrode Dome Assembly with new style SOLID Stainless Steel 5 1/4" long Electrode and Quick Disconnect Fitting <i>(Can be used to replace the obsolete 87B134B &amp; 87B309 assemblies)</i>	87B309B *
Electrode Dome Assembly with new style SOLID Stainless Steel 6" Long Electrode and Quick Disconnect Fitting. <i>(Can be used to replace the obsolete 87B134A &amp; 87B309A assemblies)</i>	87B309C *
* Ferrule Connection Fitting <i>(OPTIONAL replacement for Quick Disconnect Fitting on new style electrodes that are included with these assemblies/kits)</i>	1L248A
SONIC START® Vacuum Dome Complete Assembly	87B452A
SONIC START® STREAMLINE™ for Pump Stations Vacuum Dome Assembly (includes vacuum dome + 2-way solenoid valve & interconnecting piping to make assembly.) <i>SPECIAL NOTE: Solenoid has DIN connector w/cable connection.</i>	87B728
Blank Vacuum Dome Assembly (only use with 4-pump series vacuum primed pump stations and only on pump not regulating wet well flow. List of parts A-I required to make assembly.	
A. Vacuum Dome (1 required)	87B133B
B. Bulk Head Union (1 required)	1L481C
C. Stainless Steel Nut (2 required)	6L30K
D. O-Ring (1 required)	11L4K
E. Stainless Steel Stud (2 required)	6L200DE
F. Stainless Steel Flat Washer (2 required)	6L65F
G. Dome Compression Ring (1 required)	87A226
H. O-Ring (1 required)	11L4J
I. Cap for Bulkhead Union (1 required)	1L481CA

**PARTS ORDERING TIP:** *Hollow electrode parts for obsolete assemblies 87B134A & 87B134B available individually*

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 40

## VACUUM PRIMING SYSTEM (CONTINUED)

<b>ELECTRODE DOME – VACUUM DOME CONVERSION KITS</b>	
<b>PART DESCRIPTION</b>	<b>PART #</b>
Electrode Dome Assembly Conversion Kit – <i>Required when replacing the Old Style 87B15 Electrode Dome, which has two holes at the top to new Solid Stainless Steel Electrode system. Includes all parts in 87B309A. (Replaces H87B135)</i>	H87A329A
Two Hole Electrode Dome Kit Conversion to <b>SONIC START®</b> <b>STREAMLINE™</b> Kit (Old PN: H87A391F)	H87A391J
Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (OLD PN: H87A330A)	OBSOLETE
Reduced Maintenance Vacuum Priming System Retrofit Kit (OLD PN: H87A310C)	OBSOLETE
* Ferrule Connection Fitting <i>replacement for Quick Disconnect Fitting on new style electrodes that are included with these assemblies/kits</i>	<b>(OPTIONAL)</b> 1L248A
<b>SONIC START®</b> <b>STREAMLINE™</b> Vacuum Dome Conversion Kit (1 pump)	H87A391J
<b>STREAMLINE™</b> Only Upgrade Kit + 200 millisecond <b>SONIC START®</b> Probe	H87A457 & 4L628F

<b>ELECTRODE RELAYS – ER1 &amp; ER2</b>	
<b>PART DESCRIPTION</b>	<b>PART #</b>
Electrode Relay (Old Style)	4L29
Octal Socket for 4L29 Relay	5L49B
Electrode Relay (Old Style)	4L408*
Electrode Relay (Current) (Includes a rewiring installation booklet)	4L408H*
Socket Base (8 Pin) for 4L29, 4L408, 4L408H	5L49B
Reduced Maintenance Vacuum Priming System Retrofit Kit <i>(Includes one each 87B309B &amp; 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545B solenoid valve, and latest vacuum priming system to retrofit stations that have the 87A229 hollow electrode) (For both Duplex and Series [parallel] Pump Stations)(Old PN: H87A310C)</i>	OBSOLETE
<b>SONIC START®</b> Operating Module	4L264S

- If customer switches to 4L408, 4L408H, or **SONIC START®** from the 4L29 Electrode Relay, the Rectifier/Diode, Resistor & Capacitor are no longer required in the control panel.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 41

## VACUUM PRIMING SYSTEM (CONTINUED)

<b>ELECTRODES (OLD TECHNOLOGY – STATE-OF-THE-ART IS SONIC START® PROBE)</b>	
<b>PART DESCRIPTION</b>	<b>PART #</b>
Solid Aluminum Electrode (old P/N 87A72 no longer available) <i>Convert to Solid Electrode with Kit H87A329A or SONIC START® STREAMLINE™ Dome Retrofit Adapter Piece PN 87A225 &amp; Hardware or the SONIC START® STREAMLINE™ Conversion kit H87A391J</i>	OBSOLETE
Hollow SS Electrode, 5 <sup>7</sup> / <sub>8</sub> " Long (old P/N 87A229A no longer available Order 87B309C as replacement)	OBSOLETE
Hollow SS Electrode, 5" Long <b>ONLY</b> (Available until current stock is depleted) <i>Convert to PN 87A285 + Bulk Head Fittings or SONIC START® STREAMLINE™</i>	87A229B *
5 <sup>1</sup> / <sub>4</sub> " Long Solid Stainless Steel Electrode <b>ONLY</b> <i>Recommend Converting to low maintenance SONIC START® STREAMLINE™</i>	87A285 *
5 <sup>1</sup> / <sub>4</sub> " Long Solid Stainless Steel Electrode Dome Complete Assembly <i>Recommend Converting to low maintenance SONIC START® STREAMLINE™</i>	87B309B *
6" Long Solid Stainless Steel Electrode <b>ONLY</b> <i>Recommend Converting to low maintenance SONIC START® STREAMLINE™</i>	87A285A *
6" Long Solid Stainless Steel Electrode Dome Complete Assembly <i>Recommend Converting to low maintenance SONIC START® STREAMLINE™</i>	87B309C *

\* **Must identify correct electrode length requirement**

<b>ELECTRODES – NEWER STYLE SOLID STAINLESS STEEL ELECTRODE *</b> FOR DOMES WITH ONE HOLE AT THE TOP (OLD TECHNOLOGY REPLACED BY SONIC START® PROBE)	
<b>PART DESCRIPTION</b>	<b>PART #</b>
5 <sup>1</sup> / <sub>4</sub> " Long Solid S.S. Electrode	87A285 *
6" Long Solid S.S. Electrode ( <i>used with PN 87A225 Dome Retrofit Adapter</i> )	87A285A *
Jam Nut	6L222A
Small O-Ring (for top of dome)	11L4J
Large O-Ring (for base of dome)	11L4K
Male Quick Disconnect Fitting	1L460D
Ferrule Connection Fitting ( <i>OPTIONAL replacement for 1L460D</i> )	1L248A
Female Reducer Coupling	1L552A
Reduced Maintenance Vacuum Priming System Retrofit Kit ( <i>Old PN: H87A310C</i> )	OBSELETE

\* **Must identify correct electrode length requirement**

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 42

## VACUUM PRIMING SYSTEM (CONTINUED)

**ELECTRODES – OLD STYLE:** FOR DOMES WITH TWO HOLES AT THE TOP, OLD TECHNOLOGY REPLACED BY SONIC START® PROBE.

PART DESCRIPTION	PART #
2-Hole Dome (old P/N 87B15 no longer available. Convert to <b>SONIC START® STREAMLINE™</b> with kit H87A391J)	OBSOLETE
Solid Aluminum Electrode (old P/N 87A72 no longer available. Convert to <b>SONIC START® STREAMLINE™</b> with kit H87A391J)	OBSOLETE
Gasket for Stud	87A31
Quad Ring (if surface of dome has a groove)	11L47D
Electrode Dome Gasket (if surface of dome is flat)	87A7
Stud for Electrode	6L51CF
Nut for 6L51CF ( <b>2 required</b> )	6L60E
Bolt for Holder ( <b>2 required</b> )	6L20CE
Flatwasher for Holder ( <b>2 required</b> )	6L61F
Male Connector for Electrode Dome	1L248G
90° Connector for Tubing to Valves	1L190B
Straight Fitting for Tubing to Valves	1L248A
Insulator Boot	5L68B
Tubing, Green 3/8" (Other colors available – see page 50)	1L142BB

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 43

## VACUUM PRIMING SYSTEM (CONTINUED)

### ELECTRODES – OLDER STYLE HOLLOW ELECTRODE \*

FOR DOMES WITH ONE HOLE AT THE TOP (OLD TECHNOLOGY REPLACED BY SONIC START® PROBE)

PART DESCRIPTION	PART #
5 7/8" Long Hollow S.S. Electrode (Old P/N: 87B229A no longer available - Order 87B309C as replacement) <i>(used with PN 87A225 Dome Retrofit Adapter)</i>	OBSOLETE
5" Long Hollow S.S. Electrode <i>(ONLY Available until current stock is depleted)</i>	87A229B *
Bulkhead Union	1L481C
Terminal Lug	5L52G
Small O-Ring <b>(2 required)</b>	11L4J
Large O-Ring	11L4K
Retainer Ring (Compression Ring)	87A226
Retrofit Adapter Ring	87A225
Stud - Stainless Steel <b>(2 required)</b>	6L200DH
Nut - Stainless Steel <b>(4 required)</b>	6L30K
Washer – Stainless Steel <b>(2 required)</b>	6L65F
90° Elbow, 3/8" x 1/4"	1L190B
Quad Ring	11L47D
Insulator Boot	5L68B
Tubing, Green 3/8" (Other colors available – see page 50)	1L142BB
Ferrule, 3/8"	1L366C
Ferrule, Nut & Sleeve	1L786A
Electrode Dome Assembly Conversion Kit <i>(Replaces H87B135 &amp; H87A329)</i> <i>(converts 2 hole dome to 1 hole dome)</i> Required when replacing the Old Style 87B15 Electrode Dome that has two holes at the top. <i>(The kit Includes</i> <i>all parts in the 87B309C assembly and other parts needed for conversion.)</i>	H87A329A

\* **Must identify correct electrode length requirement**

### FLOAT CHECK VALVES – CURRENT STYLE

PART DESCRIPTION	PART #
Float Check Valve, 3/8" NPT (Complete Assembly) (Replaces 1L443, 1L443G, and 87A76)	1L443H
Adapter Fitting, 3/8" x 1/4"	1L43D
Body (See drawing - not normally replaced)	
Ball Seat (for 1L443H)	1L443HA
Valve Ball 1 1/2" Diameter	1L443B
O-Ring (for 1L443H)	1L443HB
Bowl Only (for 1L443H)	1L443HC
Drain Valve	1L333
Float Check Valve <b>SONIC START® STREAMLINE™</b> Piping (connects between float check valve & vacuum tubing.) Includes gauge port, shut off valve & quick disconnect tubing connections	87B739

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 44

## VACUUM PRIMING SYSTEM (CONTINUED)

### FLOAT CHECK VALVES – OLDER STYLE

PART DESCRIPTION	PART #
Older Style Ball Seat (for 1L443G)	1L443A
Older Style O-Ring (around outside lip of 1L443)	1L443C
Older Style O-Ring (around inside lip of 1L443G)	1L443E
Older Style Bowl Assembly (for 1L443G)	1L443F
Drain valve (for 1L443 or 1L443G)	1L333
Older Style O-Ring (for 87A76)	1L410C
Older Style Bowl Assembly (for 87A76)	1L410D
Older Style Bowl Insert (for 87A76)	1L410H

### QUICK DISCONNECT FITTINGS

PART DESCRIPTION	PART #
Quick Disconnect (new style) elbow – 3/8" x 1/4" NPT	1L546C
Quick Disconnect(new style) straight – 3/8" x 1/4" NPT	1L460D
Quick Disconnect(new style) straight & used on <b>SONIC START®</b> <b>STREAMLINE™</b> (P/N:87B728) Dome Assembly	1L460E

### REDUCED MAINTENANCE VACUUM PRIMING SYSTEM KITS

PART DESCRIPTION	PART #
Reduced Maintenance Vacuum Priming System Retrofit Kit (Includes one each 87B309B & 87B309C electrode dome assemblies, 4L408H electrode relay upgrade, 1L545A) (Obsolete P/N:H87A310C) Replacement part is <b>SONIC START® STREAMLINE™</b> P/N:H87391J	Replaced with <b>SONIC START®</b> <b>STREAMLINE™</b> H87391J
Electrode Dome Conversion/Reduced Maintenance Vacuum Priming Combo Kit (Includes H87A329A, 4L408H upgrade, and 1L545A solenoid upgrade) (Obsolete P/N:H87A330A) Replacement part is <b>SONIC START®</b> <b>STREAMLINE™</b> P/N:H87391J	Replaced with <b>SONIC START®</b> <b>STREAMLINE™</b> H87391J
Vapor Filter 12-Pack Replacement Part Kit	H87A321A

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 45

## VACUUM PRIMING SYSTEM (CONTINUED)

### SOLENOID VALVES (IN PORT GOES TO DOME, OUT PORT GOES TO VACUUM PUMP)

PART DESCRIPTION	PART #
<b>SONIC START® STREAMLINE™</b> Vacuum Dome for Pump Stations (NEWEST Solenoid Dome Arrangement)	87B728
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545A remote mounted & used on <b>SONIC START® STREAMLINE™</b> Vacuum Dome
DIN Connector for 1L545A (Required for initial installation of 1L545A)	1L545A-1
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
2-Way Solenoid Valve (5/16" orifice) (Newest Solenoid – Upgrade from 1L406A & 1L406E Style)	1L545B mounted through panel & backpan
Solenoid Clip (top piece removed when solenoid opened, clip holds unit in place)	1L545A-3
Reduced Maintenance Vacuum Priming System Retrofit Kit USE H87A391J	OBSOLETE
2-Way Solenoid Valve Upgrade Kit(5/16" orifice) (Old PN: H87A343A) (Newest – Upgrade from 1L406A & 1L406E Style) USE H87A391J	OBSOLETE
3-Way Solenoid Valve (3/32" orifice) (Replaced Old Style 1L299A, 1L349A & 1L406A) <i>Current S&amp;L standard solenoid valve is the PN 1L545A remote mounted needs DIN connector PN 1L545A-1 or PN1L545B that mounts through control panel and backpan. Conduit built in.)</i>	1L406E
Conduit Nut for 3-Way Solenoid Valve (required when ordering 1L406E first time)	5L13A
Valve Sleeve Wrench for 1L406A	1L406W
Valve Sleeve Wrench for 1L406E	1L406EW

### SONIC START® KITS (SEE SONIC START® STREAMLINE™)

PART DESCRIPTION	PART #
<b>SONIC START®</b> Upgrade Kit for One Pump (Old P/N: H87A391A)	H87A391J
<b>SONIC START®</b> Upgrade Kit for Two Pumps -Must order 2 kits (Old P/N: H87A391B)	H87A391J
<b>SONIC START®</b> Drill & Tap Kit	H87A390A
<b>SONIC START®</b> Conversion Kit from the 2 Holed Electrode Dome Kit – Every part needed to make the full conversion (Old P/N H87A391F)	H87A391J

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 46

## VACUUM PRIMING SYSTEM (CONTINUED)

### SONIC START® REPLACEMENT PARTS

*These parts come standard in the SONIC START® Kits*

PART DESCRIPTION	PART #
SONIC START® Replacement Sensor Probe – 120 VAC (Old P/N: 4L628A)	4L628F
SONIC START® Replacement Sensor Probe – 24 VAC (Old P/N: 4L628B)	4L628G
Explosion Proof SONIC START® Probe (Old P/N: 4L628CC)	4L628H
SONIC START® Operating Module	4L264S
SONIC START® DIN Connector Cable (Old P/N: 1L545A-1)	1L545A-2
SONIC START® 8 Pin Socket	5L49B
SONIC START® Cord Grip	5L57L
SONIC START® Cable Ties	5L150A
SONIC START® Brass Bulkhead Adapter	87A384
SONIC START® O-Ring for Bulkhead Adapter	11L4J
SONIC START® Jam Nut	6L222A
SONIC START® Reducer Coupling	1L552A
SONIC START® Male Tubing Connector	1L460D
SONIC START® O-Ring for Cord Grip	5L57L-2
SONIC START® Nut for Cord Grip	5L57L-1

### SONIC START® STREAMLINE™ UPGRADE KITS

PART DESCRIPTION	PART #
SONIC START® STREAMLINE™ Complete upgrade kit (1-pump kit) Required to upgrade from electrodes to SONIC START® STREAMLINE™	H87A391J
The Bundle: STREAMLINE™ Only Kit + 200 millisecond SONIC START® Probe (1-pump bundle) Required to upgrade from SONIC START® Probe to SONIC START® STREAMLINE™	H87A457 & 4L628F
SONIC START® Drill & Tap Kit- (Convenience Kit, has all drill bits & tap for SONIC START® Probe drilling & tapping of motor adapter.	H87A390A

### SONIC START® STREAMLINE™ VACUUM DOME/SOLENOID VALVE ASSEMBLY – NEWEST & CURRENT STYLE

PART DESCRIPTION	PART #
SONIC START® STREAMLINE™ VACUUM DOME/SOLENOID VALVE ASSEMBLY	87B728

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 47

## VACUUM PRIMING SYSTEM (CONTINUED)

### SONIC START® VACUUM DOME ASSEMBLY – OLD STYLE.

PART DESCRIPTION	PART #
SONIC START® Vacuum Dome Complete Assembly	87B452A

**PARTS NOTE:** Do Not Use With SONIC START® STREAMLINE™

### SONIC START® VACUUM DOME INDIVIDUAL PARTS FOR

#### P/N 87B452A

PART DESCRIPTION	PART #
Ferrule Connection Fitting ( <i>Optional</i> )	1L248A
Male Quick Disconnect Connection Fitting, Brass	1L460D
Reducer Coupling, Brass	1L552A
Jam Nut, Brass	6L222A
Vacuum Dome Housing	87B133B
Small O-Ring	11L4J
SONIC START® Bulk Head Fitting, Brass	87A384
Large O-Ring	11L4K

### VACUUM DOME

PART DESCRIPTION	PART #
Vacuum Dome	87B133B
Little O-Ring (for top of dome)	11L4J
Large O-Ring (for bottom of dome)	11L4K

### VACUUM PUMP - HEAVY DUTY - SINGLE PISTON & SPARE PARTS

PART DESCRIPTION	PART #
Heavy Duty 1/6 HP (For Pumps with 4" Piping) ( <i>Complete pump</i> )	8L29
Repair Kit (K264 or K265)	8L29AB
Inlet Filter	8L29A1
Head Gasket	8L29A4
Valve Outlet	8L29A5
Valve Plate	8L29A6
Inlet Valve	8L29A7
Cylinder Gasket	8L29A8
Piston Ring	8L29A10
Piston Seal	8L29A11
Rider Ring	8L29A12
Fan	8L29A20
Shroud	8L29A21
Motor, 1/6 HP 1725	8L29A22
Vibration Isolator (See Section 6)	87A291

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPs Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 48

## VACUUM PRIMING SYSTEM (CONTINUED)

<b>VACUUM PUMP - STANDARD - SINGLE PISTON &amp; SPARE PARTS</b>	
<b>PART DESCRIPTION</b>	<b>PART #</b>
Standard 1/8 HP (for pumps with 4" piping) ( <i>Complete pump</i> )	8L44
Connecting Rod (cannot be ordered separately – see 8L44-46)	8L44-3
Piston Cup	8L44-4
Piston Sleeve	8L44-5
Retainer Ring	8L44-6
Cord	8L44-13
O-Ring*	8L44-15
Ball Bearing (2 required)	8L44-23
Fan Assembly	8L44-26
O-Ring Gasket*	8L44-27
Filter*	8L44-32
Ecc. Bearing Assembly	8L44-33
Valve Keeper (2 required)*	8L44-34
Flapper valve (replaces 8L44-35)(2 required)*	9L25-13
Screw for Flapper Valve (2 required)*	8L44-36
Valve Plate	8L44-38
Filter Body	8L44-41
Filter Cap	8L44-43
Ball Bearing	8L44-44
Muffler*	8L44-45
Connecting Rod Kit (contains 8L44-3, -4, -5, -6)	8L44-46
Vibration Isolator (See Section 6)	87A291

*PARTS ORDERING NOTE: \* Most commonly replaced in overhaul of vacuum pump – typical repair kit parts.*

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 49

## VACUUM PRIMING SYSTEM (CONTINUED)

<b>VACUUM PUMP - HEAVY DUTY - DUAL PISTON &amp; SPARE PARTS</b>	
<b>PART DESCRIPTION</b>	<b>PART #</b>
Heavy Duty 1/2 HP (For Pumps with 6" Piping) ( <i>Complete pump</i> ) (replaces 8L40A*)	8L32**
Repair Kit (K262 or K263)	8L32-1
Head Gasket	8L32-2
Outlet Valve	8L32-3
Inlet Valve	8L32-4
Cylinder Gasket	8L32-5
Felt	8L32-6
Piston Ring	8L32-7
Piston Seal	8L32-8
Rider Ring	8L32-9
Valve Plate	8L32-10
Motor 1/2 HP 1725 RPM	8L32-11
Shroud	8L32-12
Fan	8L32-13
Cylinder Head	8L32-14
Vibration Isolator (See Section 6)	87A291

\* **NOTE:** Parts available for 8L40A – see drawing in Section 7

\*\* **SEE SECTION 6 FOR COMBINED EXHAUST CONFIGURATION**

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 50

## VACUUM PRIMING SYSTEM (CONTINUED)

### OLD 8L40A VACUUM PUMP DUAL PISTON - SPARE PARTS ONLY\*

PART DESCRIPTION	PART #
Motor Shaft Assembly	8L40-1
Eccentric & Bearing Assembly	8L40-2
Bearing & Sleeve Assembly	8L40-3
Connector Rod	8L40-6
Diaphragm	8L40-7
Motor	8L40-8
Head (old P/N 8L40-9 no longer available)	OBSOLETE
Fan Shroud	8L40-11
Valve Keeper	8L40-14
Valve Plate	8L40-15
Diaphragm Hold Down Plate	8L40-16
Head Screw	8L40-18
Exhaust Flapper Screw	8L40-19
Connector Rod Screw	8L40-20
Front Cover Screw	8L40-22
Intake Flapper Screw	8L40-23
Valve Plate Screw	8L40-24
Head Gasket	8L40-27
Fan Motor	8L40-29
Inlet & Exhaust Flapper Valve	8L40-31
Shroud Screw	8L40-33
Filter Assembly	8L40-34

**NOTE:** If complete pump is needed, replace with 8L32

### VACUUM RELEASE VALVE

PART DESCRIPTION	PART #
Vacuum Release Valve – Required for <b>SONIC START®</b> <b>STREAMLINE™</b> . (Comes standard as part of H87A391J & H87A457 upgrade kits)	1L764B

### VACUUM TUBING

PART DESCRIPTION	PART #	
Vacuum Tubing - 3/8"	Natural:	1L142BA
	Green:	1L142BB
	Red:	1L142BC

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 51

## VACUUM PRIMING SYSTEM (CONTINUED)

### VACUUM TUBING FITTINGS (for electrode domes, solenoid valves, & float check valves)

PART DESCRIPTION	PART #
Ferrule (old style) elbow - 3/8" x 1/4" NPT	1L190B
Ferrule (old style) straight - 3/8" x 1/4" NPT	1L248A
Ferrule (old style - for 2-hole dome) straight - 3/8" x 1/8" NPT	1L248G
Quick Disconnect (new style) elbow - 3/8" x 1/4" NPT	1L546C
Quick Disconnect (new style) straight - 3/8" x 1/4" NPT	1L460D
Quick Disconnect (new style) straight used on <b>SONIC START® STREAMLINE™</b> (P/N: 87B728 Dome Assembly)	1L460E

### VAPOR FILTER – NOT USED WITH SONIC START® STREAMLINE™

PART DESCRIPTION	PART #
Vapor Filter 12-Pack Replacement Part Kit	H87A321A

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 52

## VALVES

### PLUG VALVES

PART DESCRIPTION	PART #
4" Plug Valve (requires 2 PN 11L1A flange gaskets)	2L104A-300 *
Handle/Wrench Only for 4" Plug Valve (Chilean Red)	2L104AA1
4" Flange Gasket	11L1A
6" 3-Way Tapered Plug Valve (requires 3 PN 11L1C flange gaskets)	2L148-300 *
Handle/Wrench Only for 6" Plug Valve (Chilean Red)	2L104AA1
6" Flange Gasket	11L1C

### WAFER CHECK VALVES, SPRING LOADED

PART DESCRIPTION	PART #
4" Left Hand Wafer Check Valve - requires (2) 11L1A, (4) 6L20HS & (4) 6L60L to install (replaces 2L139A, 2L161A, 2L153A, 2L153E)	2L153N-300*
4" Right Hand Wafer Check Valve - requires (2) 11L1A, (4) 6L20HS & (4) 6L60L to install (replaces 2L139B & 2L161B, 2L153B, 2L153F)	2L153P-300*
4" Flange Gasket (requires 2 per valve)	11L1A
Bolt for 4" Valve Installation (4 needed per valve)	6L20HS
Nut for 4" Valve Installation (4 needed per valve)	6L60L
6" Left Hand Wafer Check Valve - requires (2) 11L1C, (4) 6L20JV & (4) 6L60M to install (replaces 2L139C & 2L161C, 2L153C, 2L153G)	2L153Q-300*
6" Right Hand Wafer Check Valve - requires (2) 11L1C, (4) 6L20JV & (4) 6L60M to install (replaces 2L139D & 2L161D, 2L153D, 2L153H)	2L153R-300*
6" Flange Gasket (requires 2 per valve)	11L1C
Bolt for 6" Valve Installation (4 needed per valve)	6L20JV
Nut for 6" Valve Installation (4 needed per valve)	6L60M

\* **PARTS ORDERING NOTE:** 2 new Flange Gaskets per Check Valve will be required.

\* **NOTE:** Arms and Shafts are now drilled for double roll pins.

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 53

## VALVES (CONTINUED)

### 4" Wafer Check Valve Spare Parts

PART DESCRIPTION	2L153A,B PART #	2L153E,F PART #	2L153N,P (-300) PART #
Seat Ring	55A30	55A38C ***	11L207F
Brass Arm *	Obsolete **	Obsolete **	55A32
Brass Clapper	55B28/55B39	55B28/55B39	55B39
Shoulder Bolt - Stainless Steel	6L184A	6L184A	6L184A
Roll Pin - Stainless Steel	2L153A6	2L153A6	2L153A6
Shaft - Stainless Steel *	55B44	55B44	55B32
Bronze Bushing ( <b>2 required</b> )	55A34	55A34	55A34
O-Ring ( <b>2 required</b> )	2L153A9	2L153A9	2L153A9
Steel Bar Arm/Handle	Obsolete **	55A36	55A36
Pin - Stainless Steel	2L153A11	2L153D11	2L153D11
Eye Bolt (from body to spring)	6L55N	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104N	11L104N
Pipe Plug	1L69B	1L69B	1L69C
Eye Bolt (from handle to spring)	6L55M	6L55M	6L55M
4" Flange Gasket ( <b>2 required per valve</b> )	111L1A	111L1A	111L1A

\* **NOTE:** Arms and Shafts are now drilled for double roll pins.

\*\* **Not Available – must order new check valve**

\*\*\* Cut to size, then use Permatex Black Max 380 or Loctite Blue to connect ends & to glue O-Ring to Seat

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 54

## VALVES (CONTINUED)

### 6" Wafer Check Valve Spare Parts

PART DESCRIPTION	2L153C,D PART #	2L153G,H,L,M PART #	2L153Q,R (-300) PART #
Seat Ring	55A31	55A38D ***	11L207G
Brass Arm *	55A33	55A33	55A39
Brass Clapper	55B29/55B40	55B2955B40	55B40
Shoulder Bolt – Stainless Steel	6L184B	6L184B	6L184B
Roll Pin - Stainless Steel	2L153C6	2L153C-12	2L153C-12
Shaft - Stainless Steel *	Obsolete **	Obsolete **	55B37
Bronze Bushing (2 required)	55A35	55A35	55A35
O-Ring (2 required)	2L153C9	2L153C9	2L153C9
Steel Bar Arm/Handle	55B31	55A37	55A37
Pin - Stainless Steel	2L153C11	2L153A11	2L153A11
Eye Bolt (from body to spring)	6L55N	6L55N	6L55N
Spring - Stainless Steel	11L104N	11L104M	11L104M
Pipe Plug	1L69B	1L69B	1L69D
Eye Bolt (from handle to spring)	6L55M	6L55M	6L55M
6" Flange Gasket (2 required per valve)	11L1C	11L1C	11L1C

\* **NOTE:** Arms and Shafts are now drilled for double roll pins.      \*\* **Not Available – must order new check valve**

\*\*\* Cut to size, then use Permatex Black Max 380 or Loctite Blue to connect ends

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 55

## SUGGESTED SPARE PARTS

### LIST OF SUGGESTED SPARE PARTS

PART DESCRIPTION	PART #
<b>Mechanical Seal</b> (Select the correct seal for your pump)	
<input type="checkbox"/> B-Shaft Single Mechanical Seal – 1-7/8"	H87A28
<input type="checkbox"/> C-Shaft Single Mechanical Seal – 2-1/8"	H87A97
<input type="checkbox"/> D-Shaft Single Mechanical Seal – 3"	H87A182
<b>Volute Gasket</b> (Select the correct volute gasket for your pump) <i>A new volute gasket is required each time the rotating assembly (motor, impeller, mechanical seals, and /or volute) is disassembled.</i>	
<input type="checkbox"/> 4B2B, TURBO 4B2C, 4B2C, 4B2D, 4C2B, 4C2D	60A26 ( <sup>1</sup> / <sub>32</sub> "
<input type="checkbox"/> 4B3B, 4C3B, 4D3B, 6B3B (& SERIES), 6C3B (& SERIES), 6D3B (& SERIES)	60A28 ( <sup>1</sup> / <sub>32</sub> "
<input type="checkbox"/> 4D4B	60A106B ( <sup>1</sup> / <sub>32</sub> "
<input type="checkbox"/> 8C4D, 8D4D	60A88 ( <sup>1</sup> / <sub>32</sub> "
<b>Seal Housing Gasket</b> (Select the correct gaskets for your pump) <i>A new seal housing gasket is required each time the mechanical seal is replaced.</i>	
<input type="checkbox"/> Flat – B-Shaft – 1-7/8" – Older Style	60A11
<input type="checkbox"/> Flat – C-Shaft – 2-1/8" – Older Style	60A17
<input type="checkbox"/> Flat – D-Shaft – 3" – Older Style	60A84
<input type="checkbox"/> Quad Ring – B-Shaft – 1-7/8" – Seal Housing with Groove	60A110
<input type="checkbox"/> Quad Ring – C-Shaft – 2-1/8" – Seal Housing with Groove	60A111
<input type="checkbox"/> Quad Ring – D-Shaft – 3" – Seal Housing with Groove	60A146
<b>Nylock Impeller Bolt</b> (Select the correct bolt for your pump) <i>A new Nylock Impeller Bolt is recommended from a safety standpoint each time it is removed.</i>	
<input type="checkbox"/> B-Shaft & C-Shaft Nylock Impeller Bolt – 1-7/8" & 2-1/8"	60A12
<input type="checkbox"/> D-Shaft Nylock Impeller Bolt – 3"	60A87
<b>Impeller Washer</b> (Select the correct washer for your pump)	
<input type="checkbox"/> B-Shaft & C-Shaft Impeller Washer – 1-7/8" & 2-1/8"	60A20
<input type="checkbox"/> D-Shaft Impeller Washer – 3"	60A86
<b>Prime Sensing Probe</b> (Select the style installed on your pump station)	
<input type="checkbox"/> 5-1/4" Long Solid S.S. Electrode Dome Assembly	87B309B
<input type="checkbox"/> 6" Long Solid S.S. Electrode Dome Assembly	87B309C
<input type="checkbox"/> <b>SONIC START</b> ® Prime Sensing Probe	4L628F
<input type="checkbox"/> <b>SONIC START</b> ® <b>STREAMLINE</b> ™ Vacuum Dome – Solenoid Valve Assembly (If <b>SONIC START</b> ® <b>STREAMLINE</b> ™ is installed on your station.)	87B728
<b>Vacuum Dome (Clear Dome Only)</b>	87B133B
<b>Vacuum Dome Top O-Ring</b>	11L4J
<b>Vacuum Dome Bottom O-Ring</b>	11L4K
<b>Vacuum Tubing – 3/8" - Red</b>	1L142BC

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

**After Market**  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 56

## GENERAL LIST OF OTHER POSSIBLE SPARE PARTS

PART DESCRIPTION	PART #
<b>Alternator</b> (Select the correct alternator for your pump)	
<input type="checkbox"/> Alternator – New Style 2-Pump P.S. (plug-in with 11 pin)	4L187B
<input type="checkbox"/> Socket Base, 11 pin, for Alternator 4L187B	5L49C
<input type="checkbox"/> Alternator – Old Style 2-Pump P.S. (replaces 4L187, 12 Pin)	4L187A
<input type="checkbox"/> Socket Base, 12 pin, for Alternator 4L187A	5L161
<input type="checkbox"/> Alternator/Timer for old stations, 2 Switches, Wire-In 16 Hour (8 on/off) Replaces Zenith 4L282A <i>Customer will require wiring installation instructions if this replaces a PN 4L282A</i>	4L343*
<input type="checkbox"/> Alternator/Timer for new stations, 1 Switch, Wire-In 16 hour (8 on/off)	4L365A
<input type="checkbox"/> Relay, Alternator	4L105A
<b>Blower</b> (Select the correct blower for your pump station)	
<input type="checkbox"/> Blower – 265 CFM (Newer Stations)	7L195
<input type="checkbox"/> Blower – Squirrel Cage – 110 CFM (Older Stations)	7L40
<b>CR Relay (Vacuum Pump Relay)</b> (Select the correct CR Relay for your station)	
<input type="checkbox"/> Relay for Vacuum Pump (1CR, 2CR)	4L107A
<input type="checkbox"/> Relay for Vacuum Pump (1CR, 2CR) “Series Stations”	4L424A
<b>ER Relay (Electrode Relay)</b> (Determine which ER Relay. If <b>SONIC START® STREAMLINE™</b> is installed on pump station replacement is operating module.)	
<input type="checkbox"/> Electrode Relay (most current ER relay)	4L408H
<input type="checkbox"/> Electrode Relay (old style)	4L408
<input type="checkbox"/> Electrode Relay (oldest style)	4L29
<input type="checkbox"/> Rectifier/Diode, Resistor, Capacitor (required only if 4L29 Electrode Relay is installed)	80A145
<b>SONIC START® Operating Module</b>	4L264S
<b>Float Check Valve</b>	1L443H
<b>Float Check Valve Drain Valve</b>	1L333
<b>Float Switches</b> (Determine which floats are installed on your pump station)	
<input type="checkbox"/> Normally Open Float Switch (typical)	4L291A
<input type="checkbox"/> Normally Closed Float Switch (Special Alarms only)	4L291B
<b>H-O-A Toggle Switch</b> (3 Position), SPST (Not UL Listed) (replaces 4L207A)	4L272A
<b>Impeller</b> (Must be identified by pump station serial number)	Call Factory
<b>Off-On Test Selector Switch</b> , Toggle Switch, SPST (Not UL Listed)	4L23

Call (800) 922-9048 to Order Original S&L Parts

# Parts Reference Guide



Smith &  
Loveless, Inc.®

14040 Santa Fe Trail  
Lenexa, KS 66215-1234, USA

After Market  
WWMPS Parts  
Reference Guide  
Original S&L Parts  
2/4/11 Page 57

## GENERAL LIST OF OTHER POSSIBLE SPARE PARTS (CONTINUED)

PART DESCRIPTION	PART #
<b>Paint</b> (Determine which paint your station requires)	
* Order one gallon of Catalyst Part B for each gallon of paint/primer – must be mixed before use.	
( ) Dark S&L Green <b>VERSAPOX</b> ®, Part A, Gallon	12L104B *
( ) Light Green <b>VERSAPOX</b> ®, Part A, Gallon	12L109B *
( ) Aquamarine <b>VERSAPOX</b> ®, Part A, Gallon	12L181B *
( ) <b>VERSAPOX</b> ® Catalyst, Part B, Gallon	12L105B
( ) Primer (RED), Part A, Gallon	12L138A *
( ) Primer Catalyst, Part B, Gallon	12L138B
( ) Touch-Up Paint Kit – Aquamarine	H87A424
( ) Touch-Up Paint Kit – Light Green	H87A426
( ) Touch-Up Paint Kit – Georgian Hemlock	H87A425
<b>Solenoid Valve</b> (Select the style installed on your pump station)	
( ) 3-Way Solenoid Valve	1L406E
( ) 2-Way Solenoid Valve (Remote Mounted & <b>SONIC START</b> ® <b>STREAMLINE</b> ™)	1L545A
( ) 2-Way Solenoid Valve (Mounted Through Panel & Backpan)	1L545B
<b>SONIC START</b> ® Operating Module (If <b>SONIC START</b> ® is installed)	4L264A
<b>Temperature Control</b> , 37° to 52° Heater	4L135B
<b>Temperature Control</b> , 90° to 75° Blower	4L135C
<b>Thermostat Switch for Heater</b>	4L84-2
<b>Tubing</b> (Select the correct tubing for your pump station)	
( ) Vacuum Tubing – 3/8"	Natural: 1L142BA Green: 1L142BB Red: 1L142BC
( ) Vacuum Tubing – 1/4"	Red: 1L142AC
( ) Vacuum Tubing - 1/2"	Natural 1L142CA
<b>Vacuum Pump</b> (Select the correct vacuum pump for your station)	
( ) Heavy Duty 1/6 hp Single Piston Vacuum Pump – 4" station piping	8L29
( ) Standard Duty 1/8 hp Single Piston Vacuum Pump – 4" station piping	8L44
( ) Heavy Duty 1/2 hp Dual Piston Vacuum Pump – 6" station piping	8L32
<b>Valves</b> – Check Valve, Spring Loaded	Call Factory
<b>Valves</b> – Plug Valve	Call Factory
<b>Vapor Filter – 12-Pack Replacement Kit (use with electrodes only)</b>	H87A321A

Call (800) 922-9048 to Order Original S&L Parts

# S&L Parts: Here for Life

Smith & Loveless Pump Stations have one of the **longest life cycles** within the marketplace. In fact, our first three complete pump stations were installed in Salina, Kansas in 1950 and are *still operational today*.

Many competitors build throw-away equipment and don't support their products with replacement spare parts – even for products that are a mere 10 years old . They'd rather sell you a costly new piece of equipment rather than repair it.

At Smith & Loveless, we fully support all of our products with spare parts and can even provide parts for our first three pump stations. When you buy a Smith & Loveless product, we're here to *support* you for the **entire life cycle** with spare parts, even when it is heading towards 60 years. No matter the age of your pump station, you'll find this Parts Reference Guide helpful in determining the current part number for your part.



**Smith & Loveless Inc.**  
**After Market Division**

**1-800-922-9048**



® **After Market Division**  
Smith & Loveless, Inc.  
14040 Santa Fe Trail Drive  
Lenexa, KS 66215-1284, USA