

INSTALLATION / OPERATOR MANUAL

3063B ST SERIES **Stationary Lifters**

PROUDLY MADE IN DUBLIN, VIRGINIA USA





APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084



FOREWORD

This manual has been prepared so that the owner, maintenance personnel and operator may readily have available information and instruction pertaining to the installation, maintenance, repair and safe operation of the System.

The extra care in design, quality and manufacture of the System warrants the attention of all concerned. The additional personal attention and cost to provide regular inspection and maintenance will be reimbursed many times over in long-term trouble-free operation.

Maintenance personnel are urged to study this manual, so that a complete understanding of the system's operating principles, trouble-shooting techniques and maintenance methods may be accomplished.

Since units vary, the installation instructions presented in this manual have been generalized. Some deviations from the instructions might be required to complete the unit installation.

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084



CUSTOMER SERVICE POLICY

LIFTERS

INSTALLATION: Appalachian Machine Inc. can install the lift unit at your location. Please call for quote.

QUESTIONS: If you are installing the lift unit and have question, please call Customer Service.

PARTS: Appalachian Machine Inc. stocks parts at our plant in Dublin, VA. Parts are shipped one to two business days after order. Emergency part service ships by UPS Next Day if ordered before 2PM EST, Monday – Friday.

PRICES: Call Customer Service.

TERMS: Net 30 days.

ORDER REQUIREMENTS: Minimum \$35 per order.

WARRANTY: All warranties (parts & labor) and returns must have a Return Material Authorization number (RMA#). Call Customer Service for approval and RMA#.

Customer Service Center

Monday – Friday 7AM-3PM EST

(540) 674-1914

info@appalachianmachine.com



SAFETY INSTRUCTIONS 3069 & 3063 MT/ST SERIES LIFTERS

- 1. No one should operate the lifter without first reading the manual and receiving handson training on the unit.
- 2. The power unit is controlled by a key lock for added safety. Access keys should be controlled by the plant or building safety manager and limited to trained operators.

 NEVER leave the key in the lock when not operating.
- 3. No one should climb, sit or **RIDE** on the lifter.
- 4. All personnel must stand clear (10 feet away) during the complete lift cycle. The operator must have a clear view of the lifter throughout the lift cycle, up and down.
- 5. **NEVER** stand under the lift unit when it is operating or in the up position.
- 6. **NEVER** clean under the lift unit when it is in the up position.
- 7. **NEVER** leave the unit up in the dumped position.
- 8. The power unit is designed with safety in mind and is operated by key lock and hydraulic hand valve. No modifications should be made to these controls.
- Dump only authorized Toter Carts that are in good repair. <u>DO NOT</u> dump other carts. <u>DO NOT</u> dump Toter Carts that are cracked, broken, have bent stop bars or missing parts.
- 10. **DO NOT** modify this lifter to handle other carts.
- 11. **<u>DO NOT</u>** dump a cart that is over-filled (above lip of the cart) or overloaded (above the maximum weight printed on the cart or lid). MAXIMUM LOAD for this lifter is 350LBS.
- 12. **<u>DO NOT</u>** dump carts containing hazardous waste (per EPA listings), flammable liquids or explosive materials.
- 13. Wear eye protection when operating.
- 14. Keep hands clear of operating lift unit. Follow US OSHA lockout and tagout procedures prior to maintaining or repairing the unit.
- 15. Ensure that the lids of any carts that are latched, locked, or chained shut are fully opened before dumping.



OPERATION INSTRUCTIONS

3063-ST-4324 LIFT UNIT

- 1. PLACE CART ON LIFTING SADDLE OF THE LIFT UNIT.
- 2. CLOSE THE DOORS OF THE SAFETY CAGE
- 3. TURN POWER UNIT ON WITH KEY SWITCH.
- 4. PUSH UP BUTTON TO RAISE CART UP AND DUMP.
- 5. WHEN CARTS IS DUMPED OVER, LET IT STAY IN DUMPED POSITION FOR APPROX. 30 SEC. FOR MATERIALS TO FALL OUT OF THE CART.
- 6. PUSH DOWN BUTTON TO LOWER DUMPED CART.
- 7. OPEN DOORS OF THE SAFETY CAGE.
- 8. REMOVE THE CART FROM THE LIFTER.
- 9. TURN POWER UNIT OFF WITH KEY SWITCH.

CAUTION: BE SURE NO ONE IS BEHIND OR INSIDE THE CAGED AREA WHEN LIFTER IS IN OPERATION. OBSERVE CART AT ALL TIMES FROM THE BEGINNING OF DUMP CYCLE TO END OF DUMP CYCLE.



Maintenance and Service Schedule 3069 & 3063 SERIES ST Lifters

DAILY

1. Ensure AC cord is fully plugged in and no damage to umbilical.

WEEKLY

- 1. Check unit dump speed.
- 2. Check oil level of power unit.
- 3. Check for oil leaks.
- 4. Check tightness of foot pads (units with auto lock).
- 5. Check for loose bolts and bearings.
- 6. Check bearing for wear.
- 7. Check lifting saddle for damage (see Toter troubleshooting guide).
- 8. Check faceplate for damage (remove any sharp edges).
- 9. Check actuator, hand valve, fittings, hoses and flow or diverter valves for leaks.
- 10. Check hoses for wear.

MONTHLY

- 1. Grease all fittings.
- 2. Check color of oil if 'milky' color, REPLACE.

TWICE YEARLY

- 1. Change packer's hydraulic filter, if it does not have a filter, it is recommended that a filter be installed.
- 2. Check cylinder for lifting power.



WARNING

BEFORE ANY INSTALLATION ANY STATIONARY (ST) UNIT:

Voltage from the electrical disconnect to the motor starter has to be verified as the same stated on the voltage label on the motor starter control box.

FAILURE TO SUPPLY ANY VOLTAGE TO THE MOTOR STARTER THAT IS NOT THE SAME AS THE VOLTAGE STATED ON THE MOTOR STARTER WILL VOID ALL WARRANTIES.

GREASING IS REQUIRED FOR PROPER MAINTENANCE OF CERTAIN PARTS.



3069 & 3063 SERIES ST Lifters

- 1. Center lifter in front of hopper or compactor that carts will dump into as close as possible.
- Manually raise the lift unit up to be sure carts are going to be dumped into the hopper or on the conveyor properly. To manually raise lift, unit hold up on the hydraulic hand valve and have someone lift up on the bottom of the unit's faceplate and rotate the faceplate to the full dump position.

NOTE: If carts are to dump through a wall you will need to check lifter positions with cart on unit BEFORE bolting to floor. You can do this manually which will require two people to lift unit up or you can connect power to unit and slowly raise unit with empty cart before bolting to floor.

3. When unit is positioned properly, properly anchor unit to floor with ½" concrete anchor bolts or ½" grade 8 bolts if mounted to a steel deck. There are four bolt holes on the front channel and four bolt holes on the back leg braces (8 total).

<u>WARNING:</u> FAILURE TO BOLT UNIT TO FLOOR PROPERLY COULD CAUSE OPERATOR INJURY OR EQUIPMENT DAMAGE. FAILURE TO ANCHOR UNIT PROPERLY WILL ALSO VOID ALL WARRANTIES.

4. Connect power cord from electric disconnect to motor starter of power unit.

CAUTION: BE SURE MOTOR IS WIRED FOR THE SAME VOLTAGE AS VOLTAGE FROM DISCONNECT. Unit is shipped with a tag stating voltage of the motor, but if it has been removed before installation check voltage with diagram on motor specification plate. If the voltage is not correct change motor wiring per the diagram.

5. Fill power unit's oil reservoir with ISO AW-46 hydraulic oil to the full mark on the sight gauge.

- 6. Turn power on and check rotation of motor (see arrow on top of motor). Unit will not pump oil if rotation is wrong. If wrong change two of the hot wires to the motor starter.
- 7. Check operation of the lift unit with a cart a couple of times to be sure unit dumps cart properly. Check all hose connections and fittings for oil leaks.
- 8. Instruct operators how to operate lift unit.

WARNING:

- i. Unit must be anchored to floor, pad or deck in all places FAILURE to do so will void all lift unit and truck warranties.
- ii. Do not attempt to mount on asphalt or dirt.



PARTS LIST 3063-TL-4018-4032

	PART NUMBER	DESCRIPTION	
1	3063-00-4421	Mounting Frame	
2	5440-00-0500	Lock Washer	
3	5590-00-0524	Socket Head Cap Screw	
4	5000-00-5060	Helac Actuator	
5	5035-00-0730	Spherical Bearing	
6	5435-00-0500	Grease Fitting	
7	5354-00-0500	Lock Nut	
8	5570-00-0675	Shoulder Bolt	
9	5570-00-0620	Shoulder Bolt	
10	3063-00-4218	Main Link – 18" Arm Lift	
10	3063-00-4220	Main Link – 20" Arm Lift	
10	3063-00-4222	Main Link – 22" Arm Lift	
10	3063-00-4224	Main Link – 24" Arm Lift	
10	3063-00-4226	Main Link – 26" Arm Lift	
10	3063-00-4228	Main Link – 28" Arm Lift	
10	3063-00-4232	Main Link – 32" Arm Lift	
11	3063-RA-4118	Right Arm –18" Lift Unit	
11	3063-LA-4118	Left Arm –18" Lift Unit	
11	3063-RA-4120	Right Arm –20" Lift Unit	
11	3063-LA-4120	Left Arm –20" Lift Unit	
11	3063-RA-4122	Right Arm –22" Lift Unit	
11	3063-LA-4122	Left Arm –22" Lift Unit	
11	3063-RA-4124	Right Arm –24" Lift Unit	
11	3063-LA-4124	Left Arm –24" Lift Unit	
11	3063-RA-4126	Right Arm –26" Lift Unit	
11	3063-LA-4126	Left Arm –26" Lift Unit	
11	3063-RA-4128	Right Arm –28" Lift Unit	
11	3063-LA-4128	Left Arm –28" Lift Unit	
11	3063-RA-4132	Right Arm –32" Lift Unit	
11	3063-LA-4132	Left Arm –32" Lift Unit	
12	3063-00-4439	Connector Block	

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084

13	5035-00-0760	Spherical Bearing		
14	3063-00-4415	Arm Washer		
15	5440-00-0400	Lock Washer		
16	5590-00-0416	SH Cap Screw		
17	5590-00-0520	SH Cap Screw		
18	3063-00-4436	Hook Operator Plate		
19	3063-00-4418	Hook Cam Pin		
20	5590-00-0230	SH Cap Screw		
21	5590-00-0415	SH Cap Screw		
22	3063-00-4427	Faceplate		
23	3057-00-3900	Saddle		
24	5260-00-0400	Hex Nut		
25	3063-00-4433	Hook Pivot Block		
26	5031-00-0510	Oilite Bronze Bushing		
27	3063-00-4442	Faceplate Hook Block		
28	5500-00-0500	Washer		
29	3063-00-4417	Hook Pin		
30	3063-00-4435	Hook		
31	5590-00-0428	SH Cap Screw		
32	5110-00-0016	Cotter Pin		

Refer to Drawing # 3063-00-4401



MOTOR STARTER PARTS LIST Cutler-Hammer Single Phase

	PART NUMBER	DESCRIPTION	
1	5354-MS-1120	120 Volt Motor Starter	
2	5354-MS-1220	220 Volt Motor Starter	
3	5354-MS-1121	Replacement Starter 120 Volt	
4	5354-MS-1222	Replacement Starter 220 Volt	
5	5354-MS-3020	Key Switch	
6	5354-MS-3021	Contact Block	
7	5354-MS-3012	Heater	

NOTE: WHEN ORDERING REPLACEMENT HEATERS PLEASE SUPPLY MOTOR HORSEPOWER AND VOLTAGE INFORMATION



<u>PARTS LIST</u> 5354-F3-3003 & F1-3001 POWER UNIT

ITEM	PART NUMBER	DESCRIPTION
1	5354-FE-3010	Reservoir O-Ring
2	5354-FE-3011	Pump
	5054 55 0040	
3	5354-FE-3012	Bolt
4	5354-FE-3013	Seal Kit
4	3534-FE-3013	Searkit
5	5354-F1-3002	Motor Single Phase 2 HP
	5354-F3-3004	Motor Three Phase 2 HP
6	5354-FE-3014	Bolt
7	5354-FE-3015	Motor Adaptor
8	5354-FE-3016	Coupling
0	F2F4 FF 2017	Decembrin
9	5354-FE-3017	Reservoir
10	5354-FE-3018	Breather
10	333412 3010	Breutier
11	5354-FE-3019	Plug
12	5354-FE-3020	Bolt
13	5354-FE-3021	Valve Plug
14	5354-FE-3022	Plug
15	F2F4 FF 2022	Daliaf Value Wit
15	5354-FE-3023	Relief Valve Kit
16	5354-FE-3024	Horizontal Pumping Kit
10	333412 3024	TOTIZOTICAL LAMPING INC
17	5354-FE-3025	Filter
18		Motor Starter
18		Motor Starter

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084



PARTS LIST Lift Unit Hydraulic Valves

PART NUMBER	DESCRIPTION		
5354-00-0614	1" Flow Regulator Valve (Diverter Valve)		
5354-00-2500	Prince Hand Valve		
5355-BK-0420	Break-a-way Kit		
5354-00-0675	Break-a-way Kit Valve		
5354-00-0676			

Special Applications Hydraulic Valves

PART NUMBER	DESCRIPTION		
5354-00-0612	¾" Flow Regulator Valve		
5354-00-0620	3/8" Adjustable Control Valve		
5354-00-0641	50/50 Flow Divider		

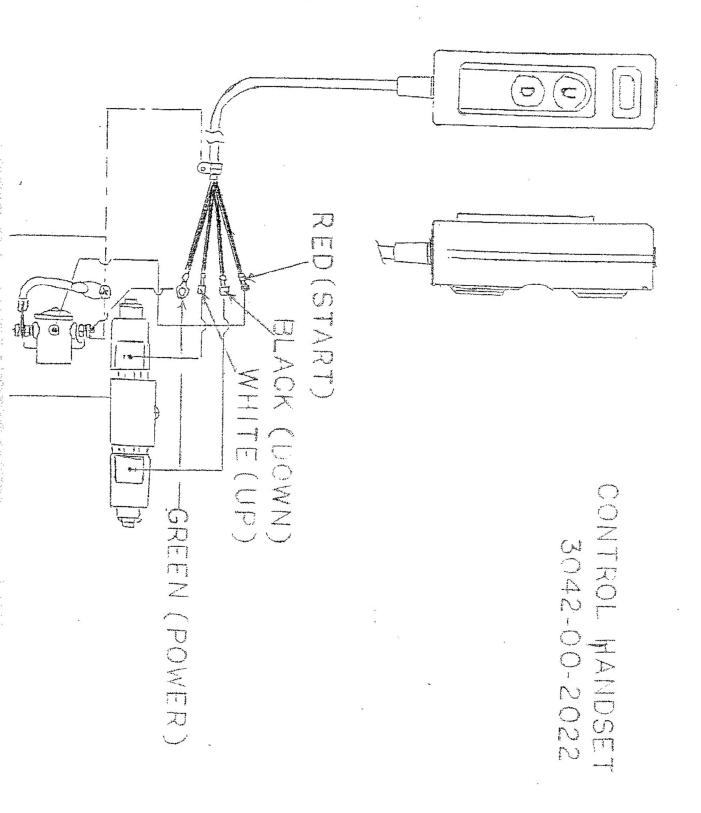


PARTS LIST Hand Valve

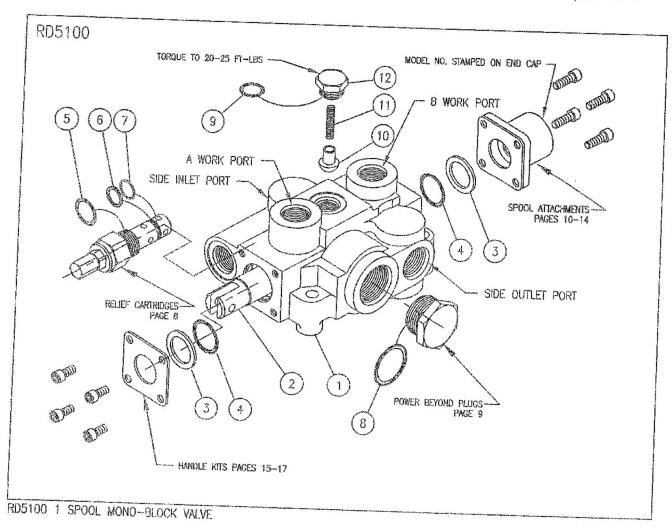
<u>ITEM</u>	PART NUMBER	DESCRIPTION		
1	5354-00-0430	Gresen Hand Valve		
2	5354-00-0405	Centering Spring		
3	5354-00-0407	Spool Seal (2)		
4	5354-00-0408	Handle		
5	5354-00-0418	Handle Bracket		

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084

Phone: (540) 674-1914 | info@appalachianmachine.com | www.appalachianmachine.com



APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084



ROSION I SPONI MONO-RINCK

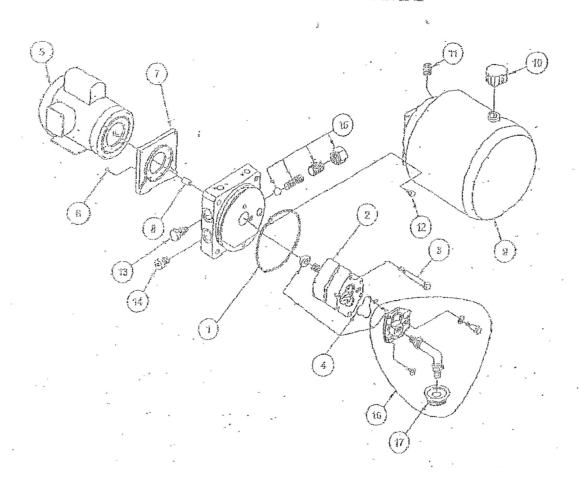
ITEM	QTY	PART NO.	DESCRIPTION DESCRIPTION
1 QN 4567 & 50 T12	112211111	SEE NOTE 1 670500010 240000213 240000116 240019015 240000015 240000916 240000908 670100001 670306007 671600001	1 SPOOL VALVE BODY SPOOL SPOOL SPOOL SEAL BACK-UP 213 O-RING 116 O-RING 015 BACK-UP 015 O-RING 916 O-RING 916 O-RING LOAD CHECK POPPET LOAD CHECK SPRING LOAD CHECK PLUG These are matched parts and are not sold seperately. Plus of the sold seperately. These are matched parts and are not sold seperately. These are matched parts and are not sold seperately. SPOOL SPOO

NOTES:

1. SEE SPOOL IDENTIFICATION CHART ON PAGE 7
2. VALVES WITH 3 WAY SPOOLS HAVE 'A' WORK PORT PLUGGED.

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084

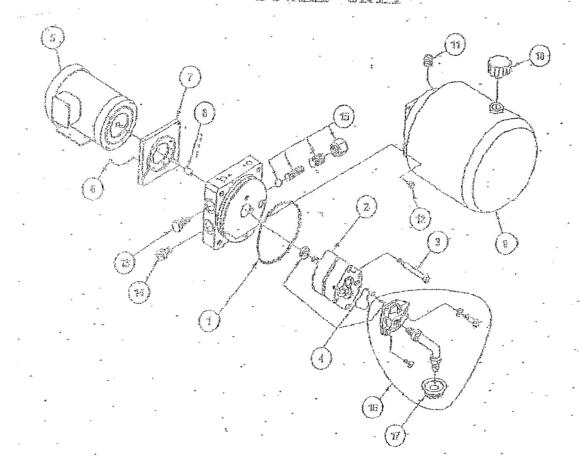
PARTS DRAWING 5354-F1-3001 POWER UNIT



1	Reservoir O-Ring		Breather
2	Pump		Plug
3	Bolt	12	Bolt
4	Seal Kit	13	Valve Plug 2-way
5	Single Phase AC Motor		Plug
6	Bolt	15	Dist. Relief Valve Kit
7	Motor Adaptor	16	Horizontal Plumbing Kit
8	Coupling	17	Filter
9	Reservoir		

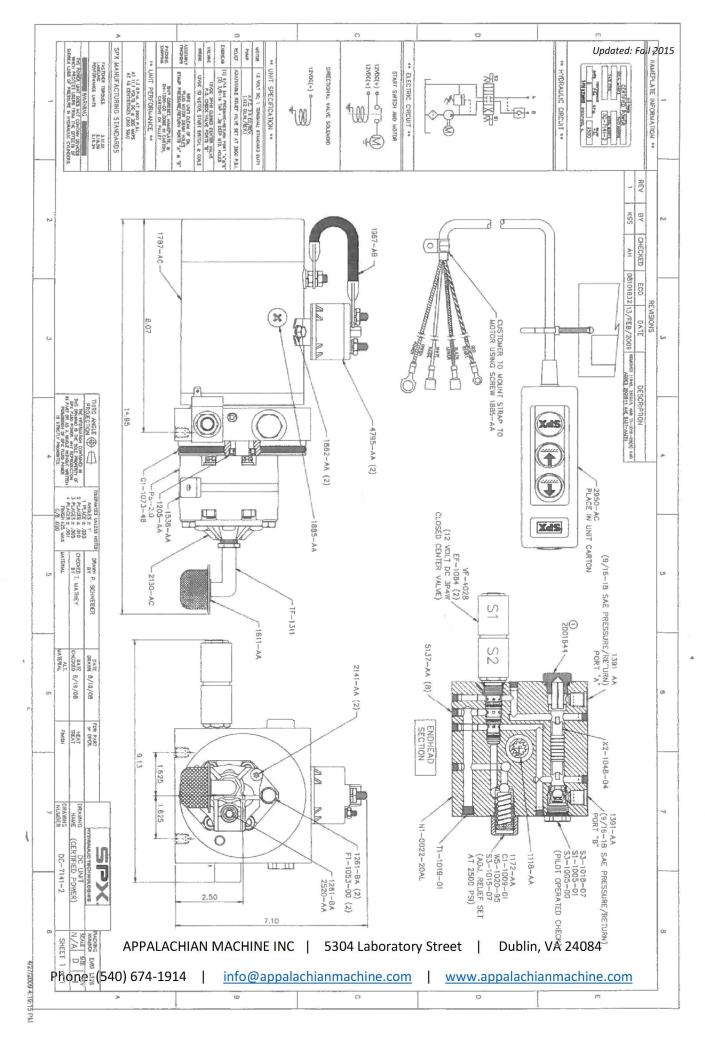
APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084

PARTS THAT IN 5354-F3-3063



1	Reservoir O-Ring		Breather
2	Pump	11	Plug
3	Bolt	12	Bolt
4	Seal Kit	13	Valve Plug 2-way
5	Three Phase AC Motor		Plug
6	Bolt	15	Dist. Relief Valve Kit
7	Motor Adaptor	16	Horizontal Plumbing Kit
8	Coupling	17	Filter
9	Reservoir		

APPALACHIAN MACHINE INC | 5304 Laboratory Street | Dublin, VA 24084



DC7141-2

