Updated: Fall 2015

APPALACHIAN MACHINE INC.

INSTALLATION / OPERATOR MANUAL

3063 TrimLift SERIES

Rear Mounted Packer Truck Lifters



PROUDLY MADE IN DUBLIN, VIRGINIA USA

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

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

APPALACHIAN MACHINE INC.

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 Lifter System.

The extra care in design, quality and manufacture of the Lifter 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.

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CUSTOMER SERVICE POLICY

LIFTERS

INSTALLATION: Toter Inc. can install the lift unit at your location or ours (packer trucks). Please call for quote.

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

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

PRICES: Call Customer Service or your local distributor.

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 8AM-5PM EST

704.872.8171 or 1.800.772.0071

toter@toter.com

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CONTENTS

3063 TrimLift SERIES

Rear Mounted Packer Truck Lifters

This manual contains Operations, Installations, Parts Lists and Parts Drawings of the 3063 TrimLift System Models 5H00 & 4H00 (H models supersede the M).

3063-TL-5H00 Lift Units – These units used on rear load packers that don't dump large metal containers, side load packers, front load work buckets or on the side of a stationary compactor.

For parts please refer to the correct parts list in this manual for your lifter. The last two numbers of the lifter part number refer to the arm length. To determine the length of your lifter, measure from the center of the shaft hub to the center of the faceplate pin.

Models of this lift unit are:

- 3063-TL-5H-18
- 3063-TL-5H-20
- 3063-TL-5H-22
- 3063-TL-5H-24
- 3063-TL-5H-26
- 3063-TL-5H-28
- 3063-TL-5H-32

This manual covers the 4H-00 Series TrimLift using the Helac Actuator.

There are two models of the TrimLift 4H00 Series Lifter:

- 3063-TL-4H-14
- 3063-TL-4H-16

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CAUTION

When Toter® rear load lift units are installed on the back of a rear-load packer truck, the lights and license plate may be covered. It is the **responsibility of the owner** to furnish additional lights or remount lights and license plate bracket to ensure safe operation of the packer truck on the street.

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SAFETY INSTRUCTIONS

3063 TrimLift SERIES

1. No one should operate the lifter without first reading the manual and receiving hands-on training on the unit.
2. **DO NOT** operate packer and lifter at the same time.
3. **DO NOT** operate packer with lift unit in the horizontal or dump position at any time.
4. Keep hand clear of moving lift unit. Never reach into the truck hopper while either unit is in operation.
5. If two units are installed on a packer **NEVER** step between the units when either unit is in operation.
6. **DO NOT** stand, climb, sit or **RIDE** on the lifter.
7. Be sure other persons or objects stay clear of the object **BEFORE** and **DURING** the complete lift cycle. The operator must have a clear view of the lifter throughout the lift cycle, up and down.
8. Be sure the Hand Valve Handle is in the neutral position when the unit is not in use.
9. If the caution label on the faceplate of the dumper or on the operation label above the Hand Valve fades or gets torn off, please order new labels from the Customer Service Department at no charge.
10. **NEVER** stand under the lift unit when it is operating or in the up position.
11. **NEVER** clean under the lift unit when it is in the up position.
12. **NEVER** leave the unit up in the dumped position.
13. 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.
14. Wear eye protection when operating.
15. Keep hands clear of operating lift unit. Follow US OSHA lockout and tagout procedures prior to maintaining or repairing the unit.
16. Ensure that the lids of any carts that are latched, locked, or chained shut are fully opened before dumping.
17. Inspect lift units daily for sharp edges on faceplate, worn or cut hoses, oil leaks and Hand Valve operation.
18. Dump only carts that are in good repair and that fit the lifter correctly. Damaged or non-standard carts may fall from the lifter at any point during the lifter cycle.

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19. If you have any questions about the compatibility of any carts with your dumpers, please call the Customer Service Department.

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OPERATION INSTRUCTIONS

3063 TrimLift SERIES

1. Tilt and engage the container's saddle onto the saddle lifting bar to engage the lifter unit.
2. Open the lid of the cart.
   WARNING: NEVER DUMP CARTS WITH LID ON!
3. Be sure no person or other obstruction is near the lift unit. Be sure nothing can contact the lift unit.
4. Pull UP on hydraulic hand valve and dump cart. DO NOT stop until unit completes UP cycle.
5. After cart contents have been dumped, push DOWN the hydraulic hand valve and lower cart all the way down.
6. **DO NOT** stop until unit completes DOWN cycle.
7. **DO NOT** operate packer and lifter at the same time.
8. **DO NOT** operate packer with lift unit in the horizontal or dump position at any time.

WARNING

1. DO NOT dump carts that exceed load rating stated on side of cart.

2. DO NOT dump any cart that has damaged or missing bars.

3. DO NOT operate packer and dump unit at the same time.

4. DO NOT operate packer while lift unit is in horizontal or dump position.

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Maintenance and Service Schedule

3063 TrimLift SERIES

WEEKLY

1. Check unit dump speed.
2. Check for loose bolts and bearings.
3. Check for oil leaks.
4. Check bearing for wear.
5. Grease all radial bearings.
6. Check lifting saddle for damage (see troubleshooting guide).
7. Check faceplate for damage (remove any sharp edges).
8. Check actuator, hand valve, fittings, hoses and flow or diverter valves for leaks.
9. Check hoses for wear.

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 actuator for lifting power.

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TROUBLESHOOTING

3063 TrimLift SERIES with 5354-00-0614 Flow Valve

No lifting power in dump unit	1. CLEAN flow valve 2. REPLACE flow valve
Dump unit operates normally, but compactor will not:	1. CHECK hand valve (spool should be in neutral position) 2. If spool will not shift to neutral position, REPLACE hand valve spring. 3. REPLACE Flow Valve
Dump unit operates too fast:	1. CLEAN flow valve 2. REPLACE flow valve fixed plug orifice 3. REPLACE flow valve
Single dump unit has no power	1. CHECK oil pressure 1,500 PSI minimum 2. CHECK cylinder seals
Lift unit will not return to normal position when down, or will not dump completely:	1. Check arm keys 2. Check actuator pinion gear and rack

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WARNING

GREASING IS REQUIRED FOR PROPER MAINTENANCE OF CERTAIN PARTS.

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INSTALLATION INSTRUCTIONS

3063 TrimLift SERIES – Rear Lift Unit

1. Park empty truck on level shop floor.
2. With chalk, mark center of hopper opening (single unit) or 14" from inside hopper on both sides (double unit). ***See Diagrams #2 and #3.***
3. With floor jack, raise lift unit until lifting saddle is 35-1/2" from floor. ***See Diagram #1.***
4. Center unit mark for single, outside edge of faceplate on mark for double installation.
5. Level lift unit and check distance from floor to lifting saddle.
6. Weld lift unit and check distance from floor to lifting saddle.
7. After unit has been welded in place, measure from inside of container attachment to edge of lift unit. Cut 6" x 4" angle iron ½" less than measurement.

   NOTE: EACH SIDE OF UNIT FOR SINGLE; BOTH SIDES AND MIDDLE FOR DOUBLE

8. Tack weld 4" side angle ½" above unit to hopper sill. Level angles horizontally and vertically.
9. Cut ¼" metal braces and weld to hopper and inside 6" x 4" angle. 3 for each side for single; 2 for each end of angles for double. ***See Diagrams #2 and #3***
10. Weld angle solid across top to hopper.

    NOTE: ANGLES AND BRACES MUST BE WELDED STRONG ENOUGH TO SUPPORT METAL CONTAINERS

11. Weld metal bumpers to 6" side of angles. ***See Diagrams #2 and #3***
12. Install valves per enclosed instructions.

    NOTE: IF PACKER IS EQUIPPED WITH A HYDRAULIC CONTAINER, FOLLOW STEPS 17-22, IF NOT, CONTINUE STEPS 13-16

13. Dump container with lift unit and check clearances.
14. Dump metal container with winch or blade chains. Container should dump over lift unit at same pivot point before lift units were installed. If container pivots on top of angle,

metal guides may be installed to container attachment to ensure dumping at original pivot point.

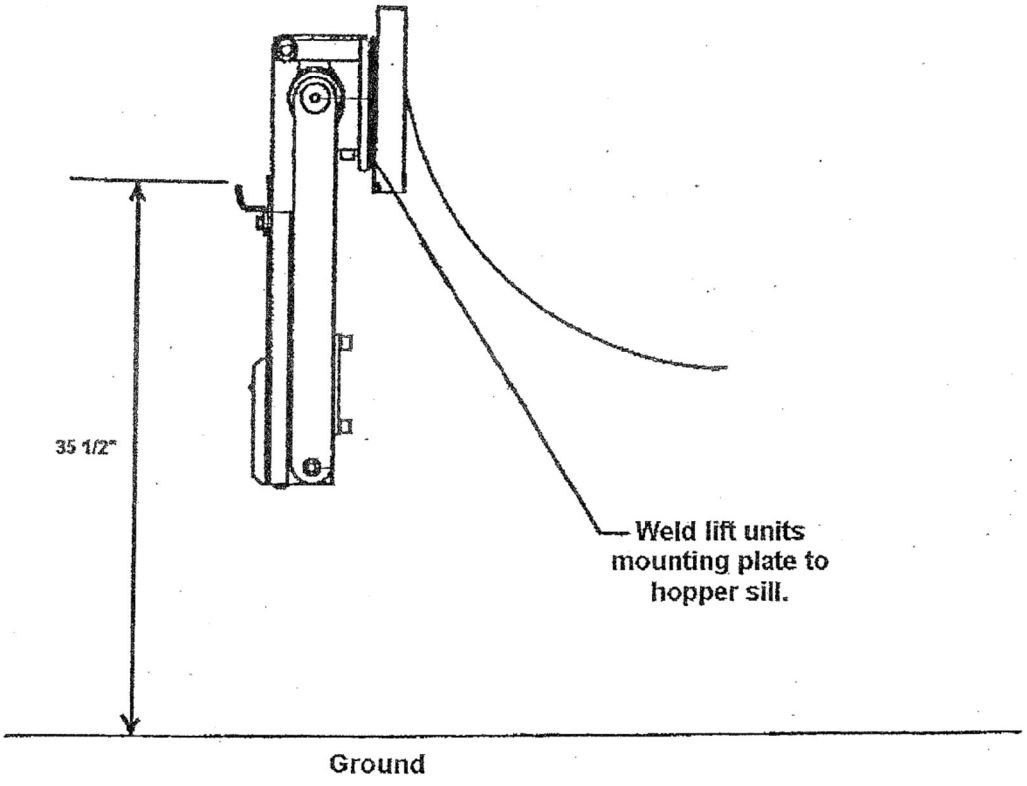
15. Some models of metal container have bumper pads. Be sure bumper pads hit metal bumper on angle – **NOT** lift unit.
16. Safety latches will need to be extended on some models of container units.
17. After steps 1 – 12 have been completed, cut lower container lift bar if needed to clear bottom of lift unit.
18. Place metal container at back of packer against metal bumper.
19. Make a pattern out of cardboard for new trunnion latches (one for each side). ***See Diagram #4.***
20. Cut and tack weld new latches in place.
21. Test the new latches with an empty container.
22. Weld new latches into place.

CAUTION: IT IS RECOMMENDED THAT ALL WELDING BE DONE BY AN EXPERIENCED WELDER BECAUSE NEW WELDS WILL BE SUBJECT TO HEAVY LOADS.

Trim Lift Unit Installation Instructions

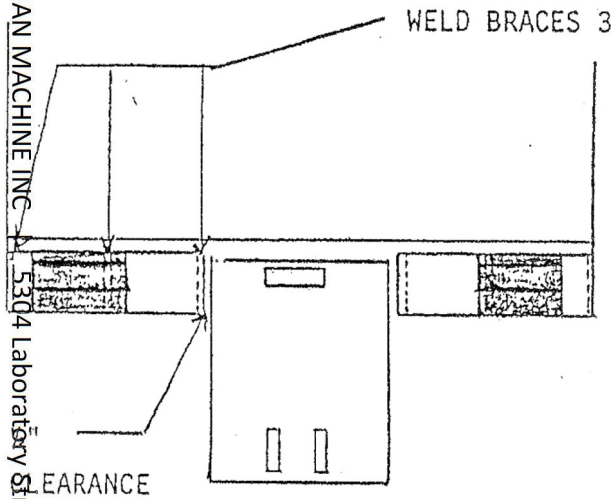
Diagram #1

1 Park empty truck on level shop floor.
2 With floor jack, raise lift unit until lifting saddle is 35 1/2" from floor.
3 Level lift unit and check distance from floor to lifting saddle. Tack weld into place.
4 Weld mounting plate to hopper sill.
5 Metal braces may be required to support the bottom of the mounting plate.



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DIAGRAM #2



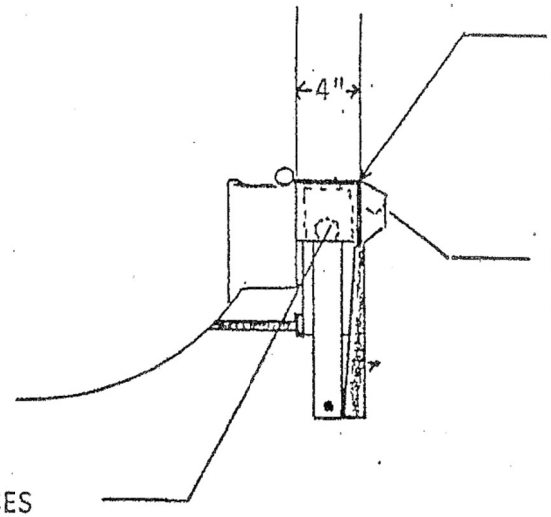


Diagram #2

DIAGRAM #2

REV.	BY	DATE	REVISION

DO NOT SCALE

TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTIONAL ± 1/32"
DECIMAL ± .005"

TITLE:

MATERIAL | DRAWN BY

SCALE | DATE

PART NO.

Toter® INCORPORATED
STATESVILLE, N. C.

SHT.___ OF___ | DRAWING NO. | REV.

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DIAGRAM #3

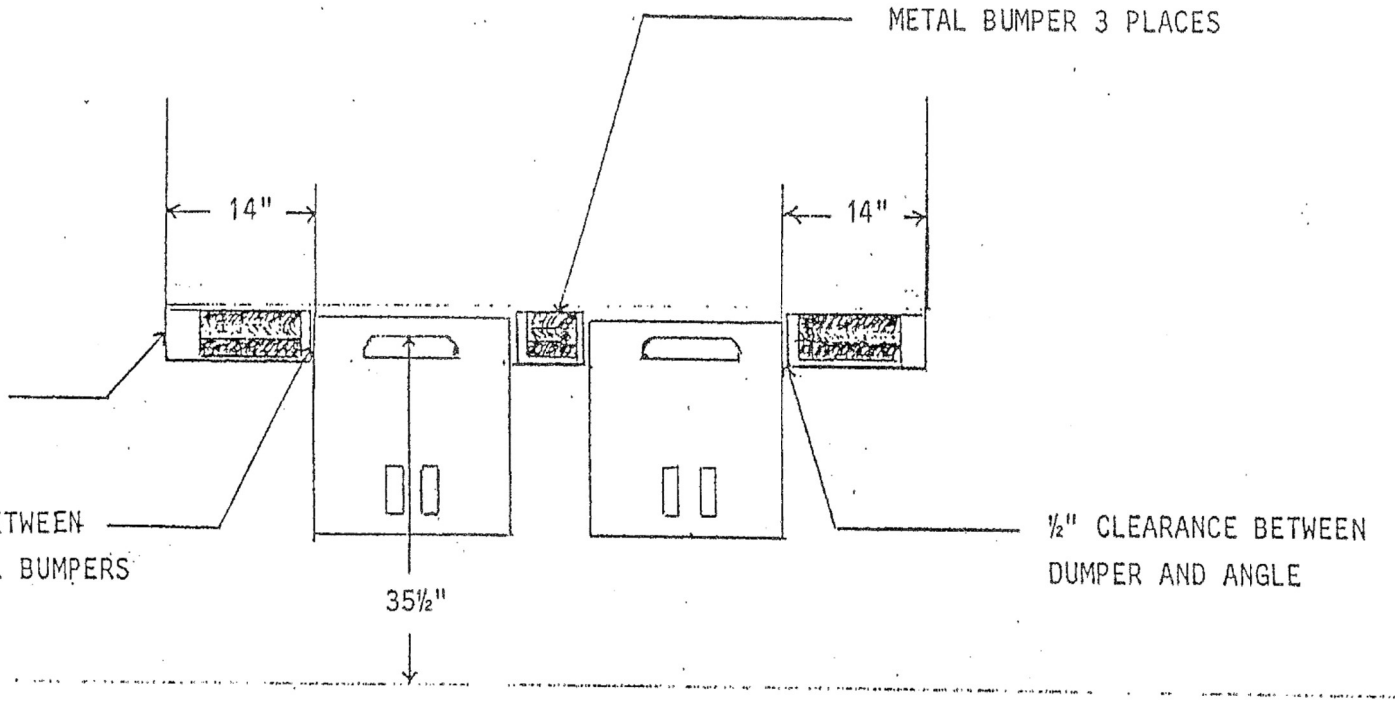


Diagram #3

DIAGRAM #3

DO NOT SCALE	TITLE:	Toter® INCORPORATED STATESVILLE, N. C.
TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONAL ± 1/32" DECIMAL ± .005"	MATERIAL / DRAWN BY SCALE / DATE PART NO.	SHT. OF DRAWING NO. REV.

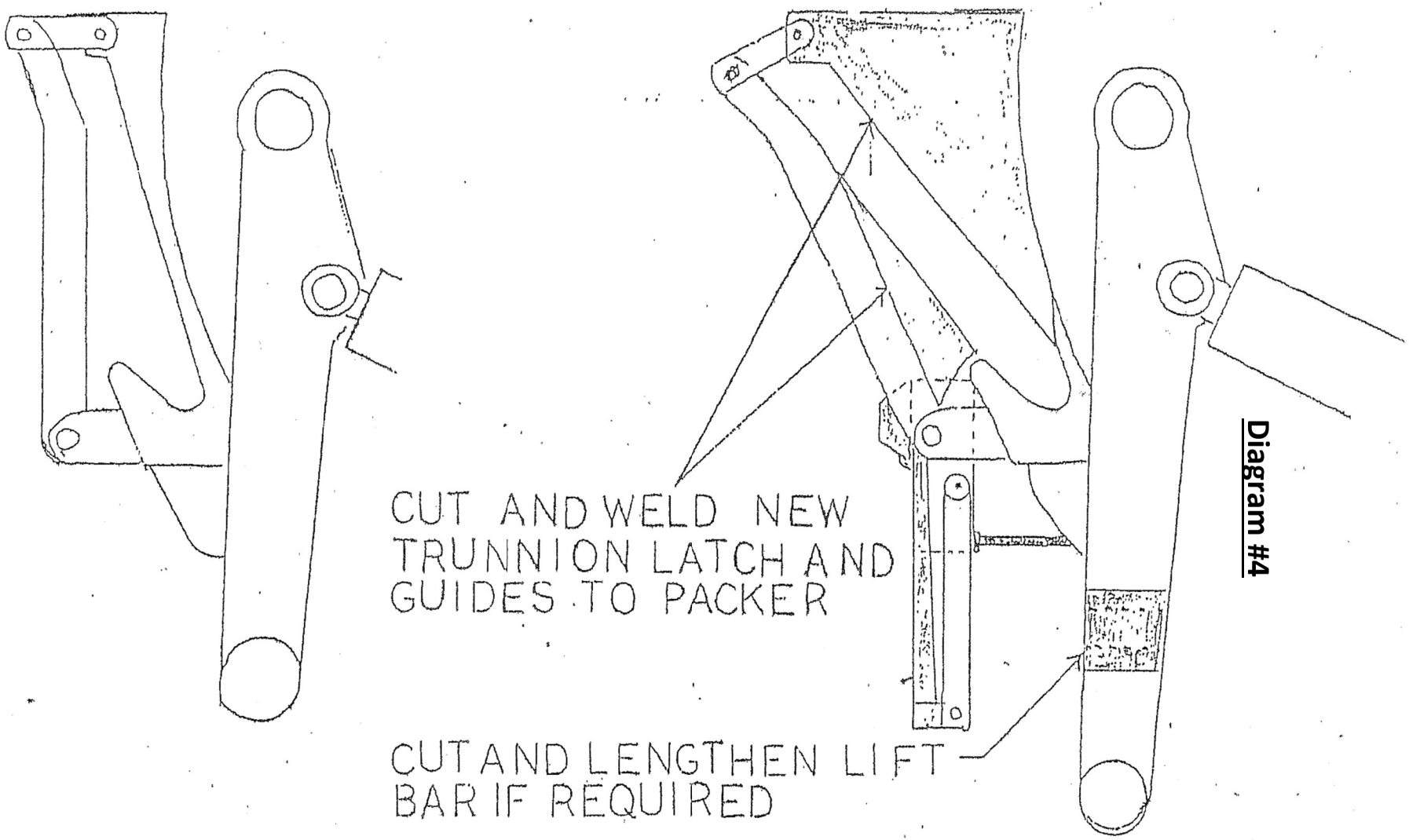
REV.	BY	DATE	REVISION

DUNCAN-PARNELL, INC., WINSTON-SALEM 893

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Diagram #4



REV.	BY	DATE	REVISION

DO NOT SCALE

TOLERANCES UNLESS OTHERWISE SPECIFIED
FRACTIONAL ± 1/32"
DECIMAL ± .005"

TITLE:

MATERIAL | DRAWN BY

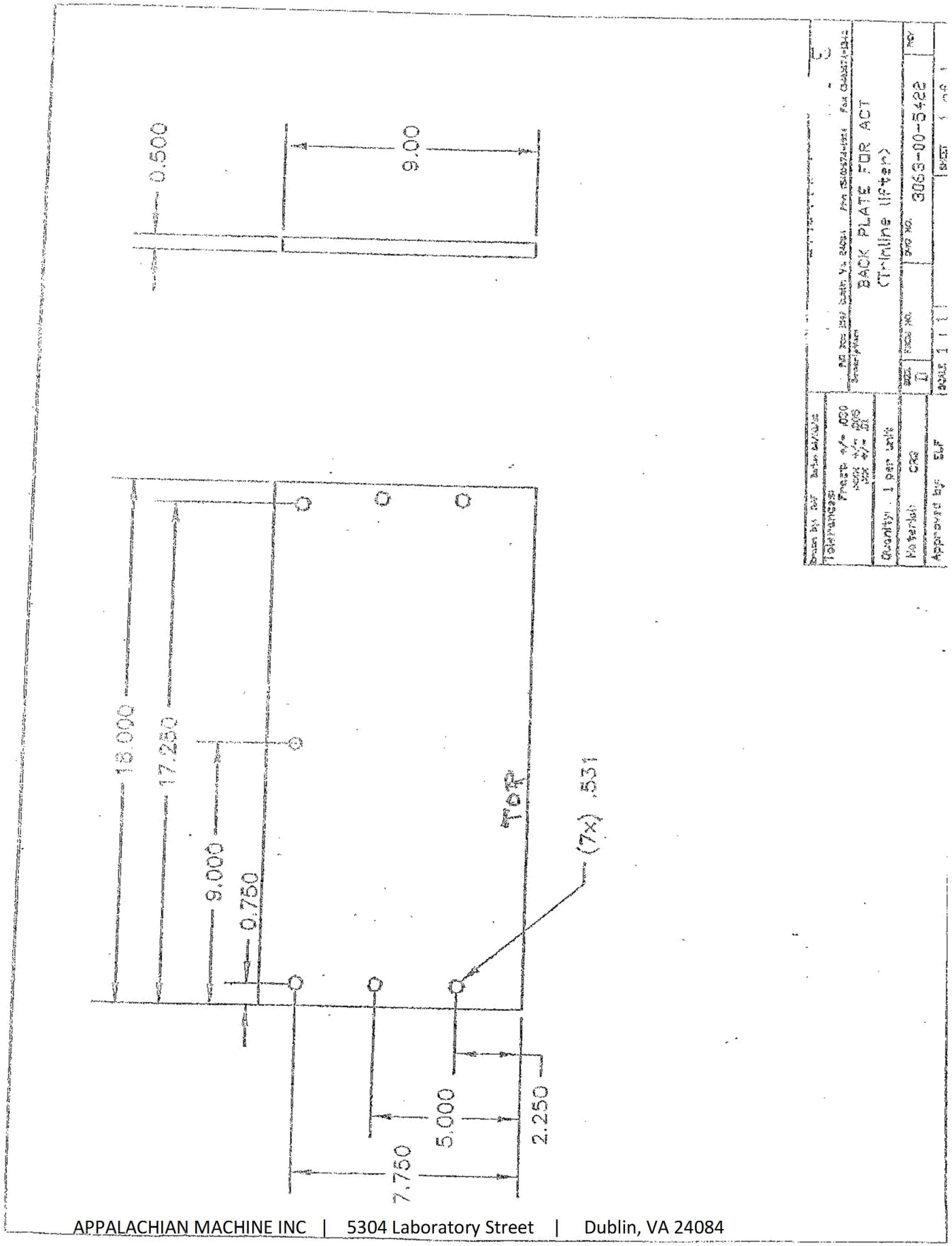
SCALE | DATE

PART NO.

Toter® INCORPORATED
STATESVILLE, N. C.

SHT. OF | DRAWING NO. | REV.

Updated 04/15


0.500
9.00
18.000
17.250
9.000
0.750
TYP
(7x) .531
5.000
2.250
7.750
BACK PLATE FOR ACT
(Tumline Gear)
3063-00-5422

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INSTALLATION INSTRUCTIONS

3063 TrimLift SERIES – Side Lift Unit

1. Park empty truck on level shop floor.
2. With jack, raise lift unit until lifting saddle is 35-1/2” from floor.
3. Center unit in hopper opening, level unit horizontally and vertically. Tack weld mounting plates.
4. Check distance from floor to top of lifting saddle (35-1/2”). Weld mounting plates.

   NOTE: IT MAY BE NECESSARY TO INSTALL ANGLE BRACES TO BOTTOM OF MOUNTING PLATE TO SIDE OF HOPPER

5. Install valves per enclosed instructions.
6. Roll container to lift unit and dump container.

   NOTE: IT MAY BE NECESSARY TO REMOVE STEP OR CUT STEP OUT TO ALLOW CONTAINER TO ENGAGE LIFTING SADDLE OF LIFT UNIT

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INSTALLATION INSTRUCTIONS

3063 TrimLift SERIES

5354-00-0614 Flow Valve

1. Weld Hand Valve to side of truck in vertical position close to dump unit.

2. Locate pressure line from pump to packer valve.

3. Disconnect or cut pressure line and install flow valve.
   A. Port marked INLET connects to pressure line from pump.
   B. Port marked BYPASS connects to packer valve.
   C. Port marked REG. connects to pressure port hand valve IN.
   D. Port on side of valve that connects to bypass port connects to OUT port of hand valve.

4. When two lift units are installed:
   A. Weld second hand valve to truck.
   B. After step #3, C is completed, connect hose to OUT port of hand valve to IN port of second hand valve.
   C. Connect hose from OUT port to second hand valve to port on side of flow valve that connects to bypass port.

5. Connect hoses from A & B ports on hand valve to actuator or cylinder ports.
6. Start truck and engage PTO:
   A. Check for leaks.
   B. Check packer operation.
   C. Operate lift unit with container mounted and check clearances.

7. If dump unit is equipped with a Break-A-Way kit:
   A. Operate lift unit.
   B. Stand behind lift unit and clasp bottom of faceplate with both hands.
   C. Pull UP on faceplate.
   D. If faceplate will not raise, reverse hoses to A & B ports on hand valve.

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8. Put safety labels on equipment:
   A. Lift unit faceplates
   B. Operation instructions above hand valves

9. Instruct operators on how to operate units.

CAUTION: TRUCKS THAT HAVE FUEL MISOR OR DRY VALVE PUMPS REQUIRE A BYPASS VALVE BETWEEN PRESSURE AND TANK LINES. FAILURE TO INSTALL BYPASS, OR TRUCKS WITH A FACTORY INSTALLED BYPASS THAT DO NOT HAVE A MINIMUM OF 2.5 GPM OF FLOW WITH LESS THAN 25 LBS BACK PRESSURE WILL CAUSE PUMP FAILURE WHEN TURNED OFF.

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PARTS LIST

3063-TL-5H18-32

	PART NUMBER	DESCRIPTION
1	3063-00-5421	Main Frame
2	5440-00-0500	Lock Washer
3	5590-00-0524	SH Cap Screw
4	5000-00-5060	Helac Actuator
5	5035-00-0730	Spherical Bearing
6	5435-00-0500	Grease Fitting
7	5430-00-0500	Lock Nut
8	5570-00-0675	Shoulder Screw
9	5570-00-0620	Shoulder Screw
10	3063-00-5218	Main Link – 18” Arm Lift
10	3063-00-5220	Main Link – 20” Arm Lift
10	3063-00-5222	Main Link – 22” Arm Lift
10	3063-00-5224	Main Link – 24” Arm Lift
10	3063-00-5226	Main Link – 26” Arm Lift
10	3063-00-5228	Main Link – 28” Arm Lift
10	3063-00-5232	Main Link – 32” Arm Lift
11	3063-RA-5118	Right Arm –18” Lift Unit
11	3063-RA-5120	Right Arm –20” Lift Unit
11	3063-RA-5122	Right Arm –22” Lift Unit
11	3063-RA-5124	Right Arm –24” Lift Unit
11	3063-RA-5126	Right Arm –26” Lift Unit
11	3063-RA-5128	Right Arm –28” Lift Unit
11	3063-RA-5132	Right Arm –32” Lift Unit
12	3063-LA-5118	Left Arm –18” Lift Unit
12	3063-LA-5120	Left Arm –20” Lift Unit
12	3063-LA-5122	Left Arm –22” Lift Unit
12	3063-LA-5124	Left Arm –24” Lift Unit
12	3063-LA-5126	Left Arm –26” Lift Unit
12	3063-LA-5128	Left Arm –28” Lift Unit
12	3063-LA-5132	Left Arm –32” Lift Unit
13	3063-00-4450	Link Pin
14	5035-00-0760	Spherical Bearing

15	3063-00-4415	Arm Washer
16	5440-00-0400	Lock Washer
17	5250-00-0416	Hex Cap Screw
18	5251-00-0522	Hex Cap Screw
19	3063-00-5R46	Arm Support Bar
20	3063-00-4418	Cam Pin
21	5575-00-0438	Set Screw
22	5250-00-0410	Hex Cap Screw
23	3063-00-4427	Faceplate
24	3057-00-3900	Saddle
25	5260-00-0400	Hex Nut
26	3063-00-4433	Hook Pivot Block
27	5031-00-0510	Bronze Bushing
28	3063-00-4442	Faceplate Block
29	5440-00-0400	Lock Washer
30	3063-00-4417	Hook Pin
31	3063-00-4443	Hook
32	5250-00-0428	Hex Cap Screw
33	5110-00-0016	Cotter Pin
34	3063-00-4444	Hook Link
35	5030-00-0511	Bronze Bushing
36	5030-00-0510	Bronze Bushing
37	3063-00-5445	Cross Bar Weldment
38	5440-00-0600	Lock Washer
39	5251-00-0526	Hex Cap Screw
40	5250-00-0420	Hex Cap Screw

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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

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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

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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

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PARTS LIST

Hand Valve

ITEM		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

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PARTS LIST

3063-10-2000 Lift Unit

Refer to Drawing #1287

	PART NUMBER	DESCRIPTION
1	5000-00-3100	Actuator (not shown)
2	3059-00-2150	Upper Mounting Plate (not shown)
3	3059-00-2155	Lower Mounting Plate (not shown)
4	3059-00-2204	Right Lift Arm 22”
	3059-00-2209	Right Lift Arm 24”
	3059-00-2215	Right Lift Arm 26”
	3059-00-2216	Right Lift Arm 28”
	3059-00-2230	Right Lift Arm 32”
5	3059-00-2208	Left Lift Arm 22”
	3059-00-2210	Left Lift Arm 24”
	3059-00-2211	Left Lift Arm 26”
	3059-00-2217	Left Lift Arm 28”
	3059-00-2231	Left Lift Arm 32”
6	3063-10-2122	Main Link 24”
	3063-10-2124	Main Link 26”
	3063-10-2128	Main Link 28”
	3063-10-2125	Main Link 32”
7	3059-00-2400	Lock Hook
8	3059-00-2500	Faceplate
9	3059-00-2450	Hook Operator
10	3059-00-2470	Hook Pivot Plate
11	3068-00-3610	Hook Rod
12	5035-00-0750	Radial Bearing
13	5031-00-0506	Facial Radial Bearing
14	5030-00-0506	Hook Bearing
15	5035-00-0760	Facial Radial Bearing
16	5570-00-1516	Faceplate Shoulder Bolt
		NOTE: DISREGARD 17 & 18, Not Indicated in Drawing
19	3061-10-2125	Welded Main Link Bolt
20	3057-00-3900	Saddle

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21	3068-00-4620	Lower Arm Spacer
22	5590-00-0420	Socket Head Screw
23	5440-00-0400	Lock Washer
24	5590-00-0520	Socket Head Screw
25	5440-00-0500	Lock Washer
26	5570-00-0750	Plain Washer
27	5500-00-0400	Plain Washer
28	5430-00-0400	Lock Nut
29	5589-00-0400	Button Head Screw
30	5589-00-0400	Lock Nut
31	5440-00-0400	Lock Washer
32	5590-00-0400	Lock Washer
33	5590-00-0420	Socket Head Screw
34	5590-00-0420	Socket Head Screw
35	5440-00-0400	Lock Washer
36	5500-00-1000	Machine Washer
37	5435-00-0200	Alemite Grease Fitting
38	5590-00-0416	Socket Head Screw
39	5440-00-0400	Lock Washer
40	5500-00-0500	Plain Washer
41	5110-00-0020	Cotter Pin
NOTE: Notice shown snap ring for welded main link Belt 5580-00-0020		

Updated: Fall 2015

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PARTS LIST

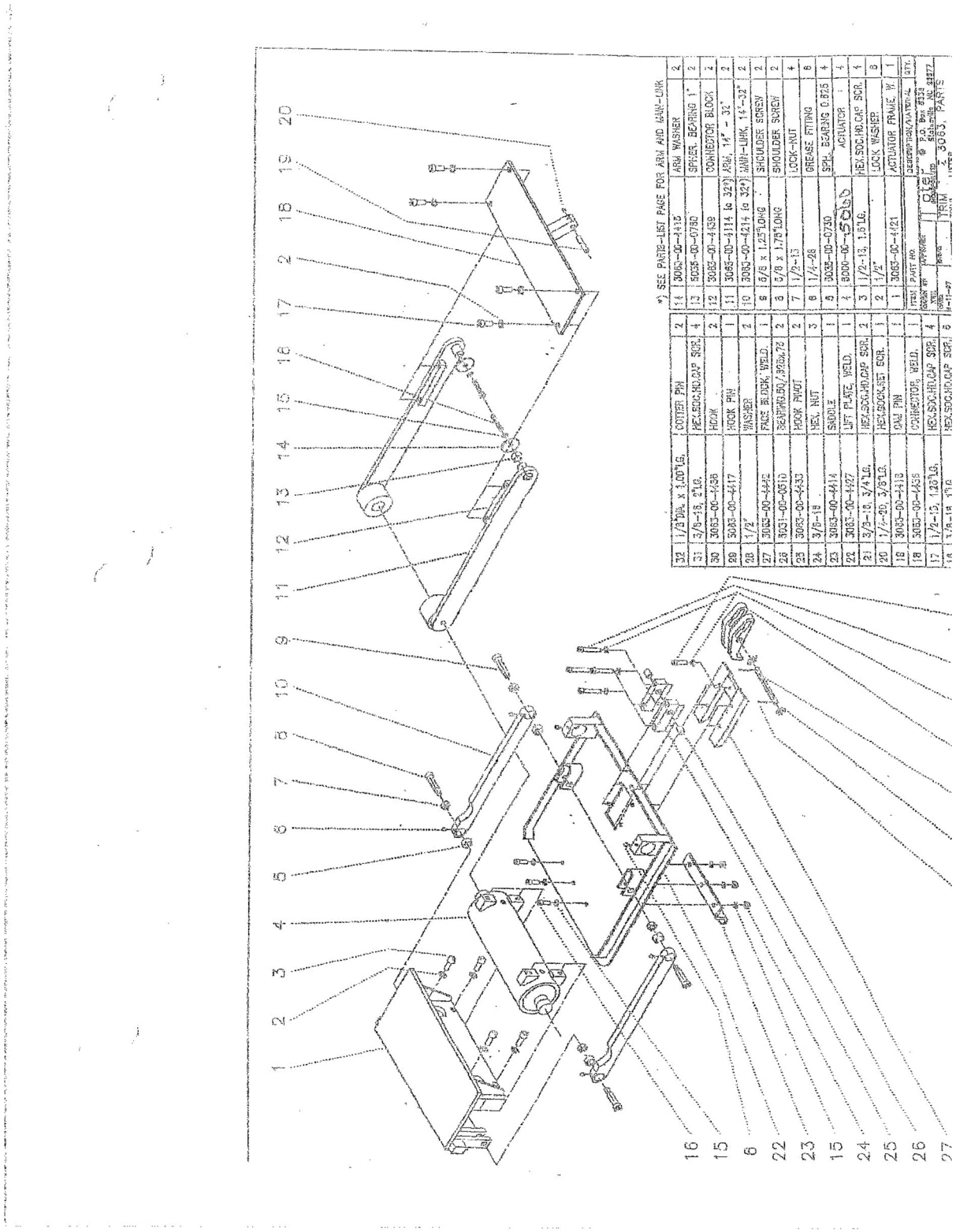
3063 Model Actuator #5000-00-3100

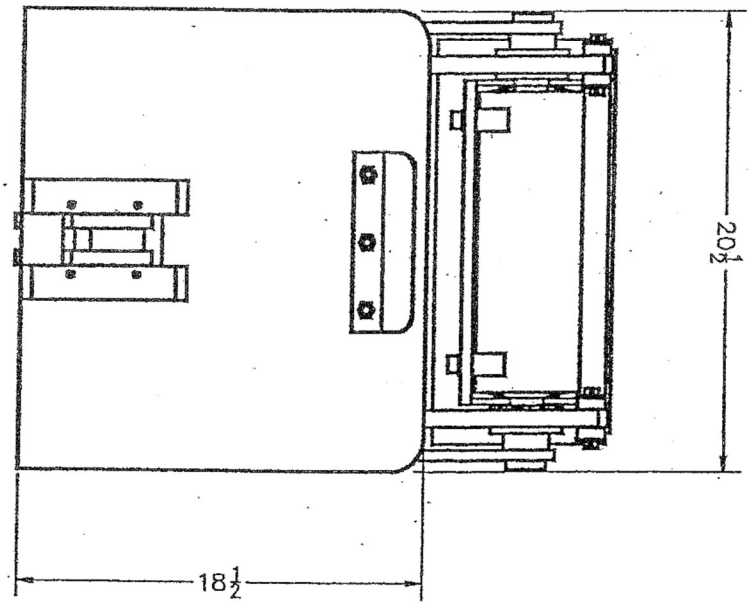
Refer to Drawing DE1040

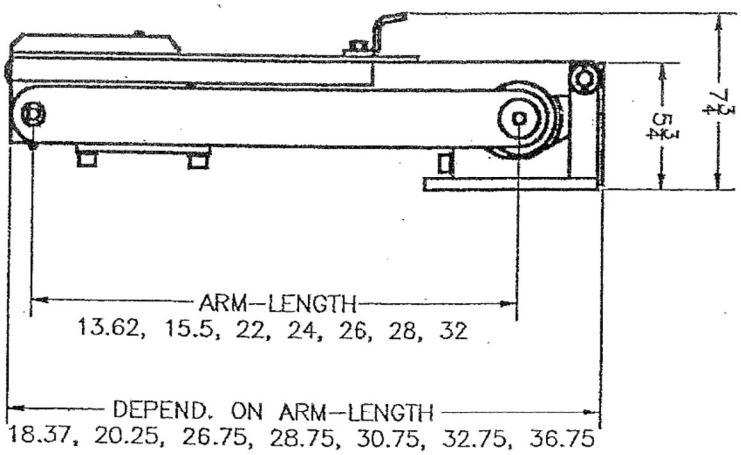
	PART NUMBER	DESCRIPTION
1	5000-00-3003	Top Cap
2	5000-00-3002	Housing
3	5000-00-3004	Bottom Cap
4	5000-00-3005	Rack Tube
5	5000-00-3006	Pinion Gear
6	5000-00-2060	Pinion Bearing Cap
7	5000-00-3007	Rack
8	3059-00-3150	Top Mounting Bracket
9	3059-00-3155	Bottom Mounting Bracket
10	5000-00-3008	O-Ring Piston Bearing Cap
11	5000-00-3009	Front Seal Pinion Bearing Cap
12	5000-00-3010	Back Seal Pinion Bearing Cap
13	5000-00-3011	Large Top Cap O-Ring
14	5000-00-3012	Small Top Cap O-Ring
15	5000-00-3013	Rack Piston Seal
16	5000-00-3014	Rack Piston Wear Ring
17	5000-00-3015	Rack Tube O-Ring
18	5000-00-3016	Actuator Cylinder Bolts
19	5590-00-0520	Socket Head Cap Screw
20	5590-00-0520	Socket Head Cap Screw
21	5590-00-0428	Socket Head Cap Screw
22	5590-00-0200	Socket Head Cap Screw
23	5500-00-0505	Lock Washer
24	5500-00-0505	Lock Washer
25	5290-00-0003	90° Adaptor
	5000-00-3020	Actuator Seal Kit

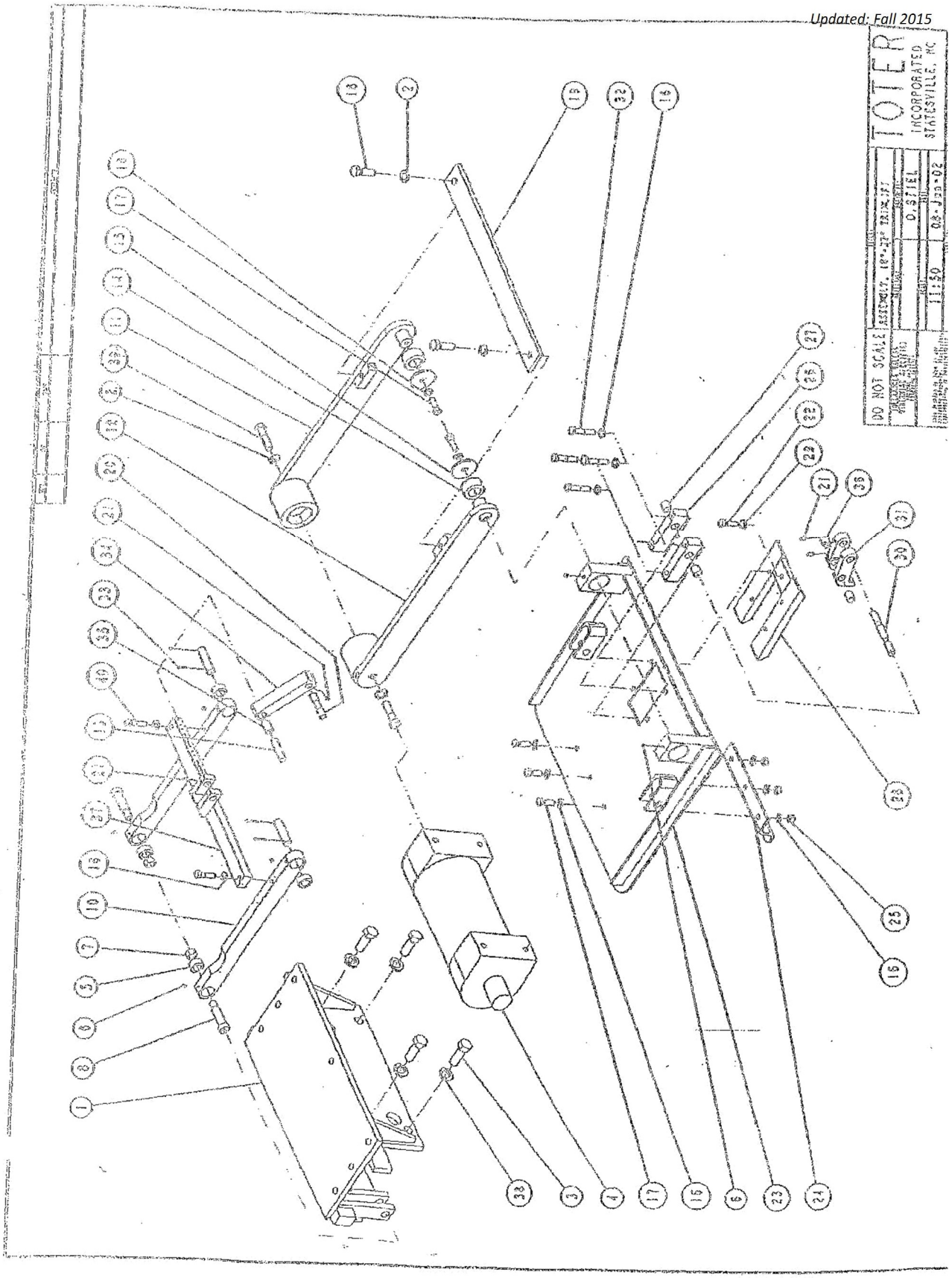
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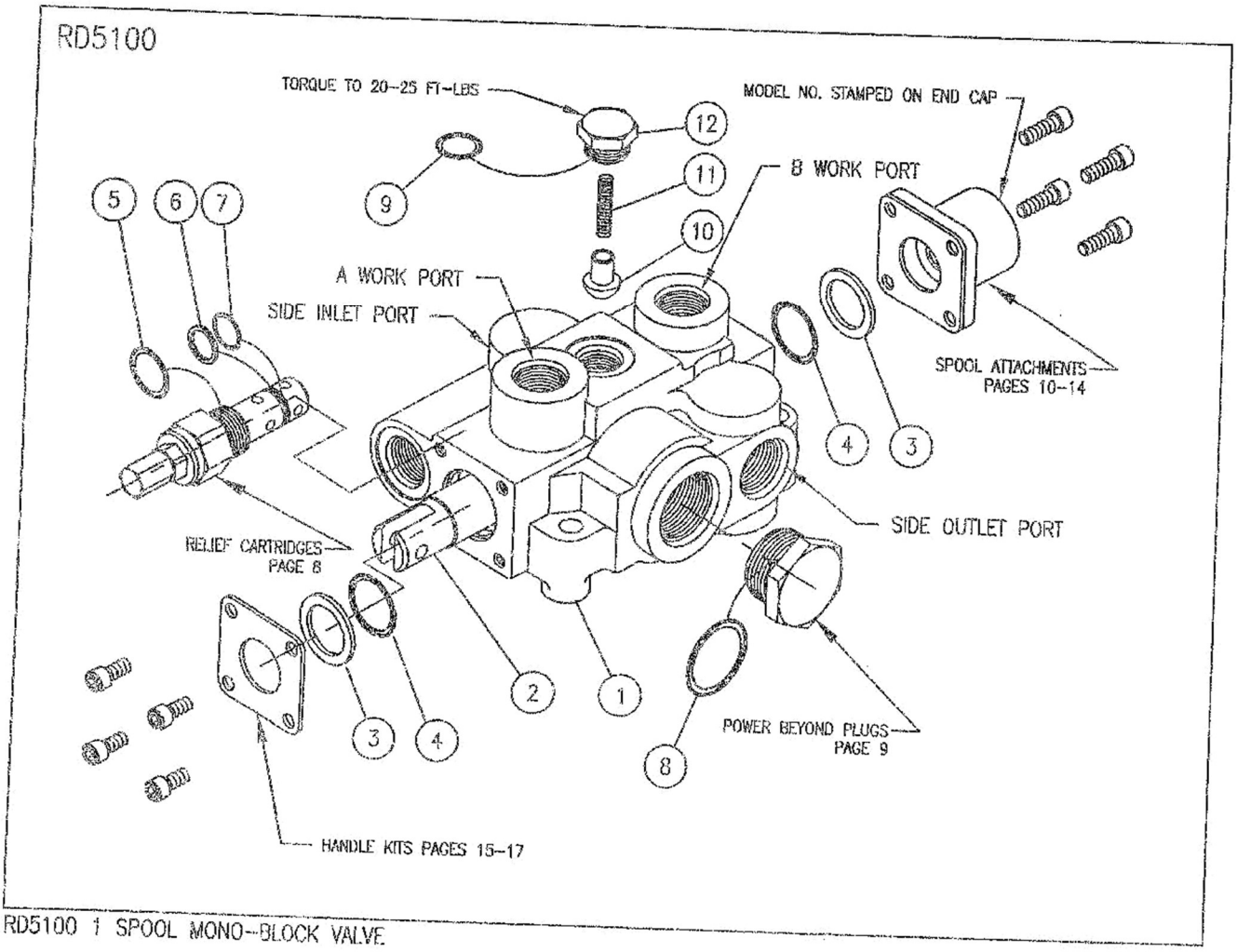
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20½
18½


7¾
5¾
ARM–LENGTH
13.62, 15.5, 22, 24, 26, 28, 32
DEPEND. ON ARM–LENGTH
18.37, 20.25, 26.75, 28.75, 30.75, 32.75, 36.75


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RD5100 1 SPOOL MONO–BLOCK VALVE

RD5100 1 SPOOL MONO–BLOCK VALVE

ITEM	QTY	PART NO.	DESCRIPTION
1	1		1 SPOOL VALVE BODY
2	1	SEE NOTE 1	SPOOL } These are matched parts and are not sold seperately.
3	2	670500010	SPOOL SEAL BACK–UP
4	2	240000213	213 O–RING
5	1	240000116	116 O–RING
6	1	240019015	015 BACK–UP
7	1	240000015	015 O–RING } SEAL KIT 660551001 (PLUS OTHERS)
8	1	240000916	916 O–RING
9	1	240000908	908 O–RING
10	1	670100001	LOAD CHECK POPPET
11	1	670300007	LOAD CHECK SPRING } LOAD CHECK KIT, NO. 660150015
12	1	671600001	LOAD CHECK PLUG

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

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