Updated: Fall 2015

APPALACHIAN MACHINE INC.

INSTALLATION / OPERATOR MANUAL

3069 Economy & 3063 Rover MT/ST SERIES
Mobile & Stationary 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 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.

Updated: Fall 2015

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

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CONTENTS

3069 & 3063 MT/ST SERIES LIFTERS

This manual contains Operations, Installations, Parts Lists and Parts Drawings of the 3069 Economy & 3063 MT/ST Series Lifters. Three models of these series lifters using the 3063 TrimLift System are manufactured using two different models of the TrimLift assembly for units requiring different arm lengths. If you are ordering parts for the lift assembly be sure to refer to the correct parts drawing of your lift assembly.

Units covered in this manual are:

1. **3069 NON-TOWABLE:** This basic unit is used for applications requiring **46”-48” dump heights**. Our ‘Economy’ lifter is available in ST (stationary) or MT (mobile) configuration using lockable caster wheels.

2. **3063 NON-TOWABLE:** This more robust mobile unit is available with the 3063-TL-4020 (4022, 4024, 4026 & 4028) arm lift assembly. The 3063-10-2032 lift assembly is used for applications requiring **68”-70” dump heights**. Also the 2000 Model TrimLift Assembly was sold with different arm lengths on older model Mobile Lift Units.

3. **3063 TOWABLE**: This lift unit is available with the 3063-TL-4024 & 3063-TL-4028 lift assembly. The 4024 is used with 1-1/2 Yard Mobile Truck and the 4028 is used with the 2 Yard Mobile Truck.

4. **3063 HIGH-SPEED TOWABLE:** This unit is used only with the High Speed 2 Yard Mobile Truck (AMA20). The 3063-TL-4028 lift assembly is used on this lift unit.

NOTE: All Mobile Lift Units are shipped with a 12-volt power unit and battery. An optional 12-volt battery charger is available. This charger will not damage your battery when charging, for information and pricing call your local distributor. Replacement batteries cannot be shipped. For information on how to purchase local replacement batteries please refer to the battery information page in this manual.

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SAFETY INSTRUCTIONS
3069 & 3063 MT/ST SERIES LIFTERS

1. No one should operate the lifter without first reading the manual and receiving hands-on 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.
9. Dump only authorized Toter Carts that are in good repair. **DO NOT** dump other carts**.** **DO NOT** 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. **DO NOT** 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. **DO NOT** 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.

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DESCRIPTION
3069 & 3063 MT/ST SERIES

These hydraulic powered lift units are designed to safely and quickly dump Toter 32-96 gallon Two-Wheel Carts and Caster Carts into hoppers, compactors and conveyers to a maximum dump height* of:

- 3069 Series = 48" above the floor
- 3063 Series
  - 32 gallon can to 74.5" above the floor
  - 64 g. can to 71" above the floor
  - 96g can to 69.5" above the floor

see 3063 Lifter Dumping SPECS

The 'MT' model lift unit is battery powered and can be moved away from the hopper or moved to different hoppers. The unit is designed to go through a standard 36" door opening.

'ST' models are designed to be fixed to the floor and run on AC power.

ROVER 'MT' Models

3063 Towable Lifter – This unit allows the operator to easily dump 35-96 gallon Two-Wheel Carts and Caster Carts into a 1-1/2 Yard or 2 Yard Mobile Truck that is pushed or towed by the operator. When the large truck is full, the operator takes the truck to the compactor for dumping.

3063 Non-Towable Lifter – This unit can be rolled to different locations for dumping 35-96 gallon Two-Wheel Carts and Caster Carts into compactors, hoppers and shredders, through windows, or onto conveyors. The unit can be ordered with custom chutes and different arm lengths for different dump height requirements.

3063 Non-Towable Economy Lifter – This unit can be rolled to different locations for dumping 35-96 gallon Two-Wheel Carts and Caster Carts into compactors, hoppers and shredders, through windows, or onto conveyors. This lifter has a maximum dump height of 48". The unit can be ordered with custom chutes.

Mobile Lifters ordered with the Autolock System have two stabilizing cylinders with rubber pads that automatically extend to the floor to keep the unit from moving when it is operated. The cylinders will not retract until the unit is fully returned to its starting position. This safety feature eliminates: (1) The problem of the operator forgetting to lock caster locks before operating unit. (2) The unit moving during dump cycle.

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OPERATION INSTRUCTIONS
3069 & 3063 MT/ST SERIES Lifters

3069 Economy MT/ST

Cart Dumping Procedure

1. Lock front castors on the LIFT UNIT for Mobile 'MT' Lift Units.
2. Tilt and roll the Toter® container's saddle onto the saddle lifting bar to engage the lifter unit.
3. Open the lid of the cart.
   WARNING: NEVER DUMP CARTS WITH LID ON!
4. Be sure no person or other obstruction is inside the safety rails of the lift unit. Be sure no person is within 8' of the area directly behind the lift unit.
5. Turn lift unit on by pushing in on the black Start button.
6. Pull up on hydraulic hand valve and dump cart.
7. **DO NOT** stop until unit completes UP cycle.
8. After cart contents have been dumped, push down the hydraulic hand valve and lower cart back to the floor.
9. **DO NOT** stop until unit completes DOWN cycle.
10. Turn power unit off by pushing the red button or by raising up on the yellow lock-out lever.
11. Remove the cart from the lifter.

WARNING

1. Dump ONLY Toter® 30-96 gallon carts with this lift unit.
2. DO NOT dump carts that exceed load rating stated on side of cart.
3. DO NOT dump any cart that has damaged or missing bars.
4. DO NOT leave the power on when not in use.
5. DO NOT operate packer and dump unit at the same time.
6. DO NOT operate packer while lift unit is in horizontal or dump position.

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3063 Rover MT

Towable Lifter - Cart Dumping Procedure

1. Open pintle hook on 1-1/2 yard or 2 yard Toter Mobile Truck.
2. Flip back hook ring on front lifter in front of casters.
3. Push lifter's front casters under mobile truck until lifter hits pintle hook on cart.
4. Flip hook ring down into pintle hook and close pintle hook.
5. Lock casters on the mobile truck that are next to the lift unit in the direction of push or travel.
6. Push or tow cart lifter to location of smaller two-wheel or caster carts.
7. Place smaller cart on lifting saddle of lift unit and open lid.
   WARNING: NEVER dump carts with the lids closed on receptacle!
8. Be sure no one is within 8' of the area behind cart when dumping.
9. Push top button on lift unit's control switch and dump into large cart.
10. After dumping smaller cart's contents push bottom button on control switch and lower cart.
    CAUTION: Before moving lifter, be sure locking cylinder pads are retracted all the way up by continuing to push down button for approximately 3 seconds after lift unit is all the way down.

Non-Towable Lifter - Cart Dumping Procedure

1. Push lift unit to the location that two-wheel or caster carts are to be dumped.
2. Place carts on lifter saddle and open lid.
   WARNING: NEVER dump carts with the lids closed on receptacle!
3. Be sure no one is within 8' of the area behind cart when dumping.
4. Push top button on lift unit's control switch and dump into large cart.
5. After dumping smaller cart's contents push bottom button on control switch and lower cart.
   CAUTION: Before moving lifter, be sure locking cylinder pads are retracted all the way up by continuing to push down button for approximately 3 seconds after lift unit is all the way down.

   NOTE: If carts are to be dumped through a wall opening, onto a conveyor, or into a fixed area; floor mounted stops can be installed. To install floor stops, place an empty cart on lifter and raise to dump position. With cart in dump position push lifter to proper dumping location.

Front of lift unit may have to be raised because rubber pads will be on the floor. Place floor stops in the front and on each side of the front casters of the lift unit and bolt them to the floor or deck. This will assure that carts will be dumped properly thereafter at each dumping location. Optional floor mounted stop brackets can be purchased from your Toter distributor.

High Speed Towable Lifter - Cart Dumping Procedure

1. With jack stand down push the two forks of the lifter into the two bottom tow sleeves of the Rapid Speed Mobile Truck.
2. Push the lifter until the attachment plate of the lift unit hits locking pin on the truck.
3. Lift up on the pin and push on the lifter until the pin will fit into the hole on the attachment plate and lock pin into place.
4. After the lifter is attached to the truck crank up the jack, pull out locking pin on the jack and rotate the leg of the jack up 90 degrees and lock in place.
5. Tow the Mobile Truck to the small carts and dump them into the Rapid Speed Truck using the same directions for dumping as with the Towable Lifter.
6. When the Rapid Speed Truck is full, lower the Jack and raise the lifter up to take the pressure off the lifter forks in the dumping sleeves of the truck.
7. Pull up on the locking pin and pull the lifter away from the truck.
8. After the lifter is pulled away from the truck tow the truck to the compactor and empty it.

   WARNING: <u>Do not tow the lift unit with the jack down at any time.</u> To do so will cause damage to the jack.

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Maintenance and Service Schedule
3069 & 3063 SERIES MT Lifters

DAILY

1. Charge battery.
2. Check operation of front locking caster (units without auto lock).

WEEKLY

1. Check unit dump speed.
2. Check oil level of power unit.
3. Check for oil leaks.
4. Check water level of battery and posts for corrosion.
5. Check tightness of foot pads (units with auto lock).
6. Check for loose bolts and bearings.
7. Check bearing for wear.
8. Check lifting saddle for damage (see Toter troubleshooting guide).
9. Check faceplate for damage (remove any sharp edges).
10. Check actuator, hand valve, fittings, hoses and flow or diverter valves for leaks.
11. 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.

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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.

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CHARGING INSTRUCTIONS
3069 & 3063 SERIES MT Lifters

BATTERY MAINTENANCE

Your battery will last longer if you keep it charged and maintain proper water level. It is best to use distilled water if you have to add water to the battery. If you have to replace the battery you must purchase a deep cycle battery. To find a local dealer look online. Toter does not ship replacement batteries.

CHARGING BATTERY

Unit is supplied with a battery charger that will not over-charge the battery. We recommend that the battery charger be plugged into a 115-volt outlet continuously. This will ensure that the battery is fully charged when being used. If it is not possible to have the charger continuously plugged in, move unit to outlet and plug charger in when not in use.
NOTE: If battery is drained all the way down, it will take charger approximately 12 hours to fully re-charge.

IMPORTANT: BATTERY FLUID LEVELS MUST BE CHECKED AT LEAST EVERY 30 DAYS – FAILURE TO MAINTAIN BATTERY MAINTENANCE MAY VOID WARRANTY

Battery Box Part - # 3063-MT-6091
6-Volt Battery Part - # 3063-MT-6090

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MRC Series – 20 AMP CHARGER

Charger Operation

Models: MRC12-5LX, MRC24-3LX, MRC12-10LX, MRC24-5LX, MRC36-3LX

Charger Operation: With a discharged batter, full power is given to battery until the Green light turns on. When the Green light turns on the battery is fully charged and the battery voltage is at full charge. The battery voltage will slowly go down in 2-hour period to a float voltage. In this float level mode (maintenance), the charger can be left on indefinitely.

LED Operation:

Red LED – Charger on and connected to 120 VAC

Green LED – Indicates batter is charged to 100%. Green LED turns off immediately after removing 120 VAC power. On a fully charged battery, the LED turns on almost immediately. With no battery connected LED will turn on immediately.

Reversing Indication – or Short Indication – If the Green LED turns on and Red LED is off, either the charger is reversed connected or the charger is seeing very low battery voltage (less than 4 volts) and will not start charging.

OPERATING INSTRUCTIONS:

Before proceeding to charge battery, make sure you read all provided safety instructions.

1. Only charge right voltage lead-acid batteries with charger.
2. Make sure the charger is disconnected from the 120 VAC.
3. First, connect charger to batteries (check polarity).
4. After connecting charger to battery connect charger to 120 VAC.
5. If after 24 hours the Green LED is not on, disconnect charger from battery. Check batteries. If good, replace charger.

IMPORTANT SAFETY INSTRUCTIONS

BEFORE USING BATTERY CHARGER, READ ALL INSTRUCTIONS AND CAUTIONARY MARKINGS ON

1. BATTERY CHARGER
2. BATTERY
3. PRODUCT USING BATTERY

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TROUBLESHOOTING

12 Volt Mobile Lift Units

MOTOR WILL NOT RUN	1. CHECK battery charger (green light = FULL charge) 2. CHECK battery cables for corrosion 3. If battery won't charge, REPLACE BATTERY 4. If battery is OK, REPLACE SOLENOID 5. CHECK power to hand set 6. CHECK motor bushings 7. If all above OK, REPLACE MOTOR
MOTOR WILL RUN, BUT WILL NOT OPERATE UP OR DOWN	1. CHECK oil level of power unit 2. CHECK oil pressure – IF NO PRESSURE: a. Check pump coupling b. REPLACE PUMP 3. CHECK wire connections to solenoids/valve coils
LIFT UNIT WILL NOT LIFT LOAD OR IS VERY SLOW	1. CHECK oil pressure 2. CHECK actuator or cylinder for excessive oil by-pass (REPLACE SEALS) 3. REPLACE PUMP
LIFT UNIT WILL NOT OPERATE IN BOTH DIRECTIONS	1. CHECK valve coil manually when unit is running. If valve can be operated manually: REPLACE COIL 2. CHECK wires to coil 3. CHECK hand set
LOCKING CYLINDERS WILL NOT OPERATE	1. CHECK counter balance valve

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TROUBLESHOOTING

3069 Dump Unit 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.
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

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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.

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INSTALLATION INSTRUCTIONS

3069 & 3063 SERIES ST Lifters

1. Center lifter in front of hopper or compactor that carts will dump into as close as possible.

2. 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).

   WARNING: 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.**

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PARTS LIST
3063 Towable Lifter

	PART NUMBER	DESCRIPTION
1	3063-MT-6005	Towable Mobile Stand
2	3063-10-20XX 3063-TL-40XX	Lift Assembly 24” OR 28” Arm Unit
3	3042-00-2000 3042-00-3000	Fenner 12-volt Power Unit
4	5354-00-2650 5354-00-2660	Counter Balance Valve – 5354-00-0625 Pilot Check Valve Check Valve (not shown)
5	3063-00-6013	Locking Cylinder
6	3063-00-6014	Locking Pad
7	3063-MT-6075	(2) Caster-Swivel w/ 6” Brake
8	3063-MT-6076	(2) Caster-Ridged 6”
9	3063-MT-6038 3063-MT-6037 3063-MT-6090 3063-MT-6091	12-volt Battery 12-volt Battery Box 6-volt Battery 6-volt Battery Box
10	3042-00-2022 3042-00-2023	Fenner Hand Control

See Special Notes below.

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PARTS LIST

3063 Towable Lifter – SPECIAL NOTES

We have shipped these units with the TrimLift 2000 & 4000 Lift Assemblies. See TrimLift section of this manual for the applicable parts list.

Parts list for the Fenner 12-volt Power Unit is drawing #F1

We DO NOT SHIP BATTERIES. The part number for the current battery is **US2200XC** or **EXIDE NG4D**
This is the battery supplied with the plastic box. The part number for our older model battery supplied with the metal box is **EXIDE FS13**

Find your local Exide Dealer: 1.800.START-IT … 1.800.782.7848

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PARTS LIST

3069 Economy Mobile Lifter

	PART NUMBER	DESCRIPTION
1	3063-MT-1002	Economy Stand
2	3069-00-1000	Lift Unit Assembly
3	3042-00-3000	Fenner 12-volt Power Unit
4	5354-00-0625 5354-00-0660	Pilot Check Valve Check Valve
5	3063-00-6013	Locking Cylinder
6	3063-00-6014	Locking Pad
7	3063-MT-6075	(2) Caster-Swivel w/ 6” Brake
8	3063-MT-6076	(2) Caster-Ridged 6”
9	3063-MT-6038 3063-MT-6090	12-volt Battery
10	3042-00-2022 3042-00-2023	Fenner Hand Control
	3063-00-6039	Battery Charger

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PARTS LIST

3069-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

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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

Updated: Fall 2015

APPALACHIAN MACHINE INC.

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

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APPALACHIAN MACHINE INC.

PARTS LIST
3069-MT-1000
ROVER MOBILE LIFT

ITEM		PART NUMBER	DESCRIPTION
1		3069-00-0120	Frame
2		3069-00-0121	Main Arm Weldment
3		3069-00-0122	Pivot Weldment
4		3063-MT-6091	Battery Box
5		5250-00-0463	Hex Screw 3/16” – 16 x 3.5”
6		5250-00-0424	Hex Screw 3/8” – 16 x 1.5”
7		5250-00-0416	Hex Screw 3/8” – 16 x 1”
8		5250-00-0410	Hex Screw 3/8” – 16 x 3/4”
9		5590-00-0302	SHO Screw 5/16”- 18 x 2”
10		5250-00-0212	Hex Screw 1/4” – 20 x 3/4”
11		5589-00-0050	Button Screw #10 – 32 x ½”
12		5250-00-0221	Hex Screw 1/4” – 20 x 1-3/4”
13		5250-00-0400	Hex Screw 3/8” – 16
14		5260-00-0200	Hex Nut ¼” – 20
15		5260-00-0200	Hex Nut ¼” – 20

16		5440-00-0400	Lock Washer 3/8”
17		5440-00-0200	Lock Washer 1/4”
18		5440-00-0100	Lock Washer #10
19		5440-00-0200	Lock Washer 1/4”
20		3069-00-0101	Oilite Bushing
21		5435-00-0200	Grease Fitting
22		3069-00-0107	Swivel Caster 4”
23		3069-00-0108	Rigid Caster
24		3069-00-0109	Spring
25		3069-MT-6090	Battery
26		3072-00-2001	Cylinder
27		3063-00-6014	Battery Disconnect
28		3042-00-2022	Hand Control Set
29		3042-00-2000	Fenner Power Unit
30		3063-MT-6036	Battery Charger
31		3069-00-0123	Motor Cover
32		3069-00-0124	Can Holder Upper
33		3069-00-0125	Can Holder Lower

APPALACHIAN MACHINE INC.

PARTS CHANGE

3069-00-1000 Rover Lift Units

Note: June 2003 We changed the 3069-00-1000 Rover Lift Units Can Holder; parts # for the new holder are:

3069-00-1026		Can Holder Tube
3069-00-1027		Can Holder Slide Lock

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APPALACHIAN MACHINE INC.

PARTS LIST

FENNER POWER UNIT 12 Volt

3042-00-2000 (See Drawing F1)

ITEM		PART NUMBER	DESCRIPTION
1		3042-00-2001	Solenoid Starter
2		3042-00-2004	Motor 12 Volt
3		3042-00-2050	Valve Plug
4		3042-00-2051	SAE Plug
5		3042-00-2005	Reservoir O-Ring
6		3042-00-2052	Motor Coupling
7		3042-00-2053	Pump O-Ring Kit
8		3042-00-2054	Plumbing Kit
9		3042-00-2055	Filter
10		3042-00-2010	Pump
11		3042-00-2056	Pump Mounting Bolt
12		3042-00-2057	Reservoir
13		3042-00-2058	Reservoir Screw
14		3042-00-2014	Filler Breather
15		3042-00-2059	Relief Valve Assembly

16		3042-00-2060	Plug
17		3042-00-2017	U-Valve
18		3042-00-2061	Bolt
19		3042-00-2062	12 Volt Valve Coil
20		3042-00-2063	Solenoid Band Kit

Updated: Fall 2015

APPALACHIAN MACHINE INC.

PARTS LIST

5354-F3-3003 & F1-3001 POWER UNIT

ITEM		PART NUMBER	DESCRIPTION
1		5354-FE-3010	Reservoir O-Ring
2		5354-FE-3011	Pump
3		5354-FE-3012	Bolt
4		5354-FE-3013	Seal Kit
5		5354-F1-3002 5354-F3-3004	Motor Single Phase 2 HP Motor Three Phase 2 HP
6		5354-FE-3014	Bolt
7		5354-FE-3015	Motor Adaptor
8		5354-FE-3016	Coupling
9		5354-FE-3017	Reservoir
10		5354-FE-3018	Breather
11		5354-FE-3019	Plug
12		5354-FE-3020	Bolt
13		5354-FE-3021	Valve Plug
14		5354-FE-3022	Plug
15		5354-FE-3023	Relief Valve Kit
16		5354-FE-3024	Horizontal Pumping Kit
17		5354-FE-3025	Filter
18			Motor Starter

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APPALACHIAN MACHINE INC.

PARTS LIST

3069-00-5000 SADDLE MOBILE LIFT

ITEM		PART NUMBER	DESCRIPTION
1		3069-MT-0200	Frame Weldment
2		3069-MT-0170	Lift Assembly
3		3069-MT-0300	Pivot Weldment
4		3069-MT-0320	Lock Hook
5		3063-MT-6037	Battery Box
6		3059-00-3900	Saddle
7		3069-MT-0405	Hook Spring Pin
8		5250-00-0463	Hex Screw 3/8”-16 x 3-1/2”
9		5250-00-0424	Hex Screw 3/8”-16 x 1-1/2”
10		5250-00-0416	Hex Screw 3/8”-16 x 1”
11		5250-00-0320	Hex Screw 5/16”-18 x 1-1/4”
12		5590-00-0234	¼” – 20 x ¾” SHCS
13		5250-00-0216	¼” – 20 x 1” Hex Screw
14		5110-00-0020	Cotter Pin
15		5110-00-0200	Cotter Pin
16		5110-00-0300	5/16” – 18 Hex Nut
17		5260-00-0200	¼” – 20 Hex Nut
18		5260-00-0200	¼” – 20 Hex Nut
19		5500-00-0500	½” Flat Washer
20		5500-00-0500	½” Flat Washer
21		5440-00-0300	5-16” Lock Washer
22		5440-00-0200	1/4” Flat Washer
23		5440-00-0200	1/4” Flat Washer
24		5110-00-0032	Cotter Pin
25		5110-00-0016	Cotter Pin
26		3069-MT-0390	Cylinder Pin
27		3069-MT-0400	Hook Pin
28		3069-00-0101	Bearing
29		5435-00-0200	Grease Fitting
30		5500-00-0500	½” Flat Washer
31		5500-00-0910	1” Flat Washer
32		3069-MT-0400	Spring Pin
33		3069-00-0108	Rigid Caster
34		3069-00-0107	Swivel Caster
35		3069-00-0108	Spring
36		3069-00-0106	Cam Follower
37		Group 31	Battery

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38		3072-00-2001	Cylinder
39		3063-MT-6041	Disconnect w/Key
40		3063-MT-6044	Key
41		3063-MT-6045	Disconnect Key
43		3063-MT-6042	Legend Plate
44		3042-00-2022	Control Handset
45		3042-00-3000	Fenner Power Unit
46		3063-MT-6036	Battery Charger
47		3069-MT-0370	Hook Stop

APPALACHIAN MACHINE INC.

PARTS CHANGE

3069-00-5000 Rover Lift Units

Note:

On 6.1.2003 The Lock Hook Assembly was changed. Please refer to new parts list and drawing in this manual for parts.

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PARTS LIST
3069-00-0500
Lock Hook Assembly

ITEM		PART NUMBER	DESCRIPTION
1		3069-00-0501	Lock Hook
2		3069-00-0502	Hook Pivot Bracket
3		3069-00-0503	Hook Rod
4		3069-00-0505	Spacer
5		3069-00-0504	Rod End
6		5590-00-0524	½" – 13 x 1-1/2" SHCS
7		5260-00-0520	½" – 20 Hex Nut
8		5250-00-0464	3/8" – 16 x 4" Hex Bolt
9		5440-00-0400	3/8" Lock Washer
10		5260-00-0400	3/8" Hex Nut

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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 SERIES
Non-Towable Mobile Lifter

ITEM		PART NUMBER	DESCRIPTION
1		3063-MT-6004	Non-Towable Stand
2		3063-10-20XX 3063-TL-40XX	Lift Assembly 20”, 22”, 24”, 26”, 28”, 32” Arm
3		3042-00-3000	Fenner 12-volt Power Unit
4		5354-00-0625 5354-00-0660	Pilot Check Valve Check Valve Not Shown
5		3063-MT-6013	Locking Cylinder
6		3063-MT-6014	Locking Pad
7		3063-MT-6075	Caster Swivel w/Brake 6”
8		3063-MT-6076	Caster-Ridged 6”
9		3063-MT-6090 3063-MT-6091	6-volt Battery Battery Box
10		3042-00-2023	Fenner Hand Control

APPALACHIAN MACHINE INC.

PARTS LIST
3069-ST-2000
Economy Stand Mounted Lifter

ITEM		PART NUMBER	DESCRIPTION
1		3069-00-2000	Lift Unit
2		3069-ST-1005	Stationary Stand
3		5354-F1-3001 5354-F1-3003	Fenner 2HP Single Phase Power Unit Fenner 2HP Three Phase Power Unit
4		5354-MS-3006	Motor Starter
5		5354-00-0430	Gresen Hand Valve
For replacement parts for the above *assemblies* refer to the *individual* parts list for the specific assembly in this manual.			

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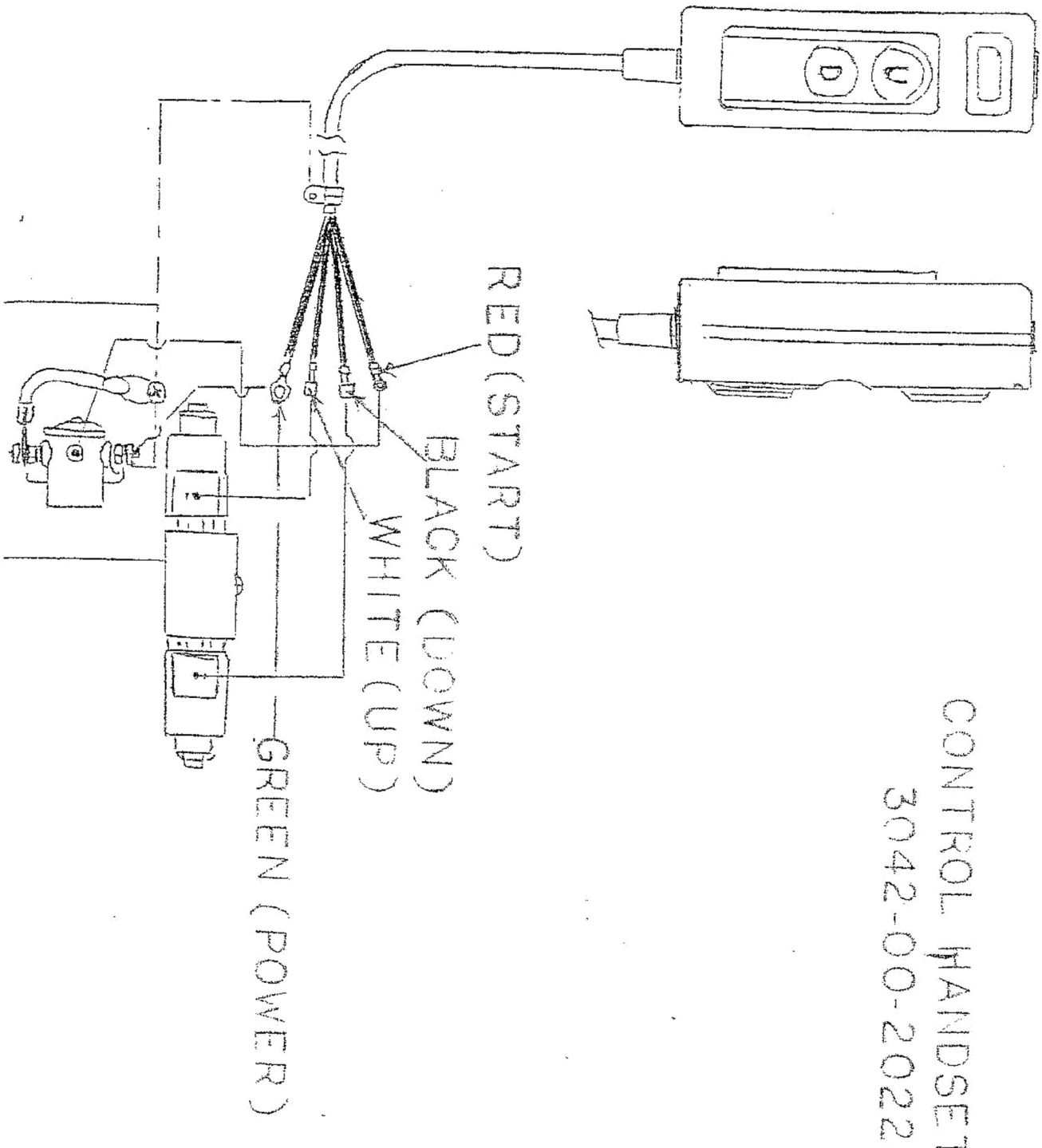
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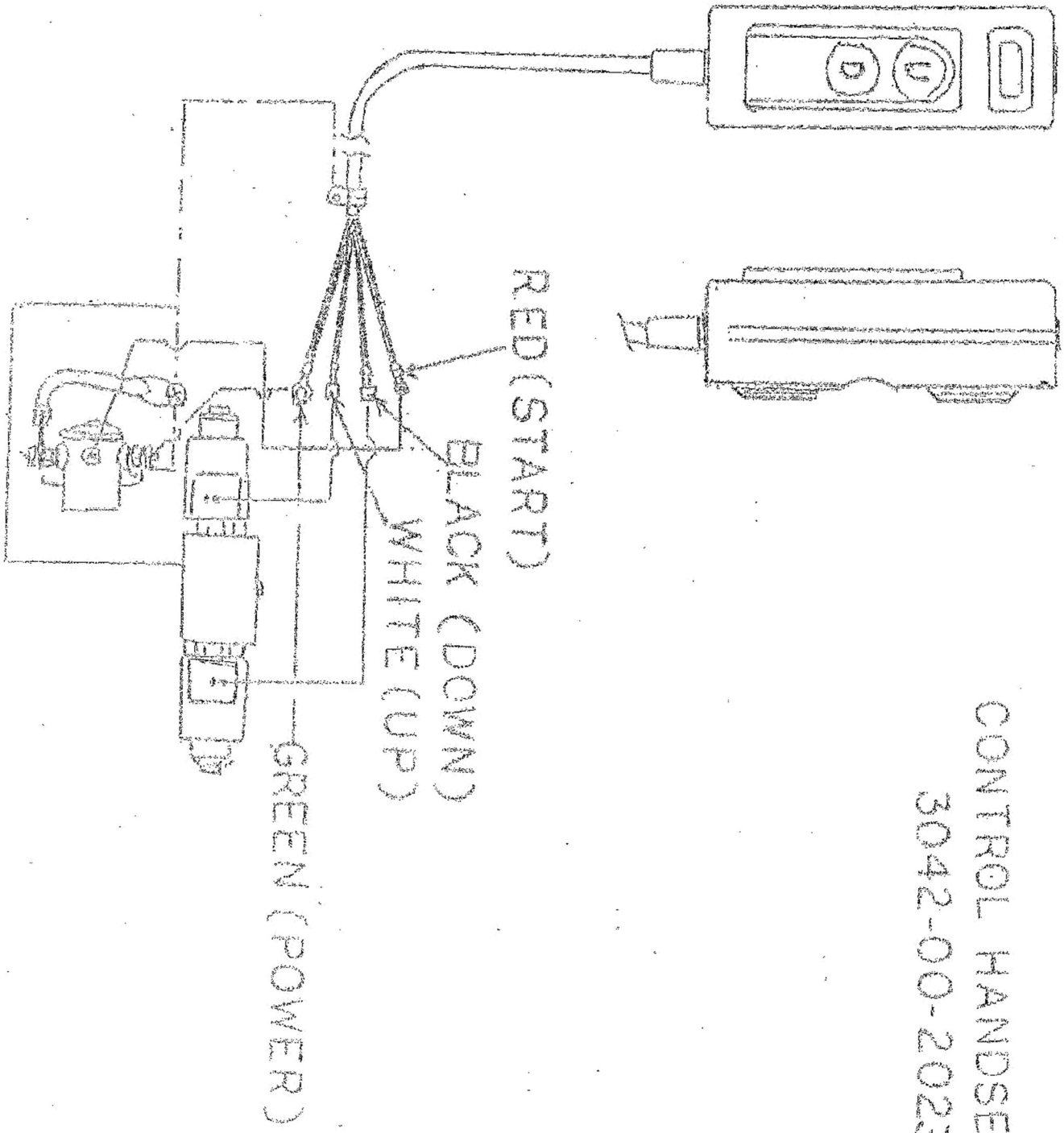
PARTS LIST
3069-00-2000
Lift Unit

ITEM		PART NUMBER	DESCRIPTION
1		5250-00-0416	Hex Bolt 3/8” – 16 x 1”
2		5430-00-0400	3/8” Lock Washer
3		3057-00-3900	Saddle
4		5260-00-0400	Hex Nut 3/8”
5		3069-00-2002	Faceplate
6		3069-00-2030	Iglide Bearing
7		3069-00-2030	Iglide Bearing
8		3069-00-2032	Iglide Bearing
9		3069-00-2016	Hook Mount
10		5250-00-0426	Hex Bolt 3/8” – 16 x 1-3/4”
11		3069-00-2025	Hook
12		5110-00-0024	Cotter Pin 1/8” x 1-1/2”
13		3069-00-2023	Lower Cylinder Pin
14		3069-00-2024	Faceplate Shaft
15		3069-00-2010	Mounting Frame

16		5589-00-0300	Buttonhead 3/8” – 16 x 1”
17		5590-00-0520	SH Screw ½”-13 x 1
18		5440-00-0500	Lock Washer ½”
19		3069-00-2022	Pivot Washer
20		3069-00-1002	Cylinder Energy
21		3069-00-2021	Upper Cylinder Pin
22		3069-00-2018	Hook Link Bracket
23		3069-00-2017	Hook Link
24		3069-00-2031	Iglide Bearing-TSI-1011-08
25		5580-00-0055	Snap Ring
26		5500-00-0910	Flat Washer 1” (NS)



CONTROL HANDSET
3042-00-2022



CONTROL HANDSET
3042-00-2023

FENNER 12VOLT POWER UNIT COILS

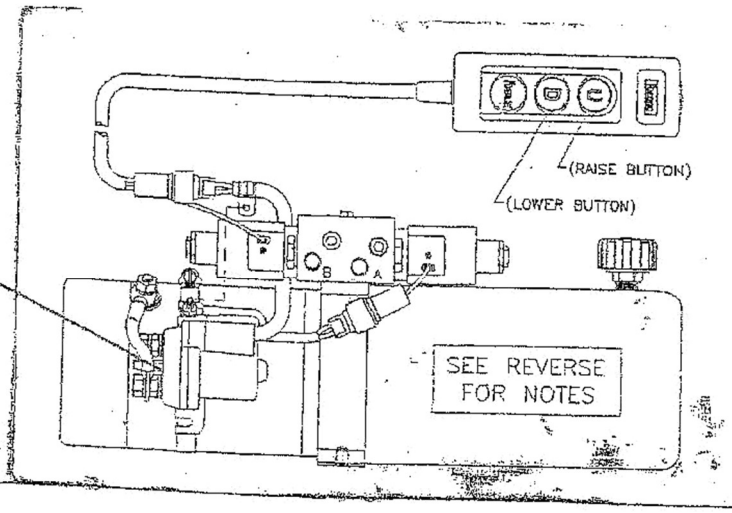
WE HAVE RECEIVED TWO DIFFERENT TYPES OF SOLENOID STARTER ASSY. FROM FENNER.

1. 3042-00-2001 THIS IS THE ASSEMBLY THAT IS SHOWN IN THE PARTS LIST AND THE CONNECTORS ARE SIDE MOUNTED. THIS IS WHAT WE NOW RECEIVE AND WHAT WE RECEIVED FOR ABOUT THE FIRST 10 UNITS WE SOLD.

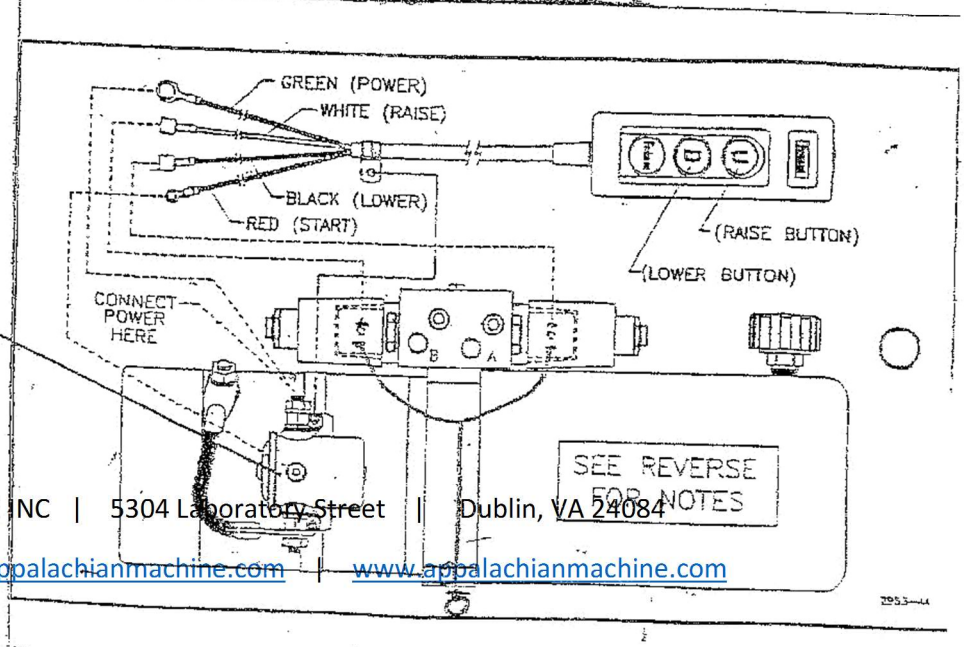
2. 3042-00-2019 THIS ASSEMBLY HAS THE CONNECTORS ON THE FRONT OF THE STARTER ASSEMBLY.

3. BE SURE YOUR CUSTOMER ORDERS THE CORRECT STARTER ASSEMBLY FOR HIS UNIT PER THE DIAGRAMS BELOW.

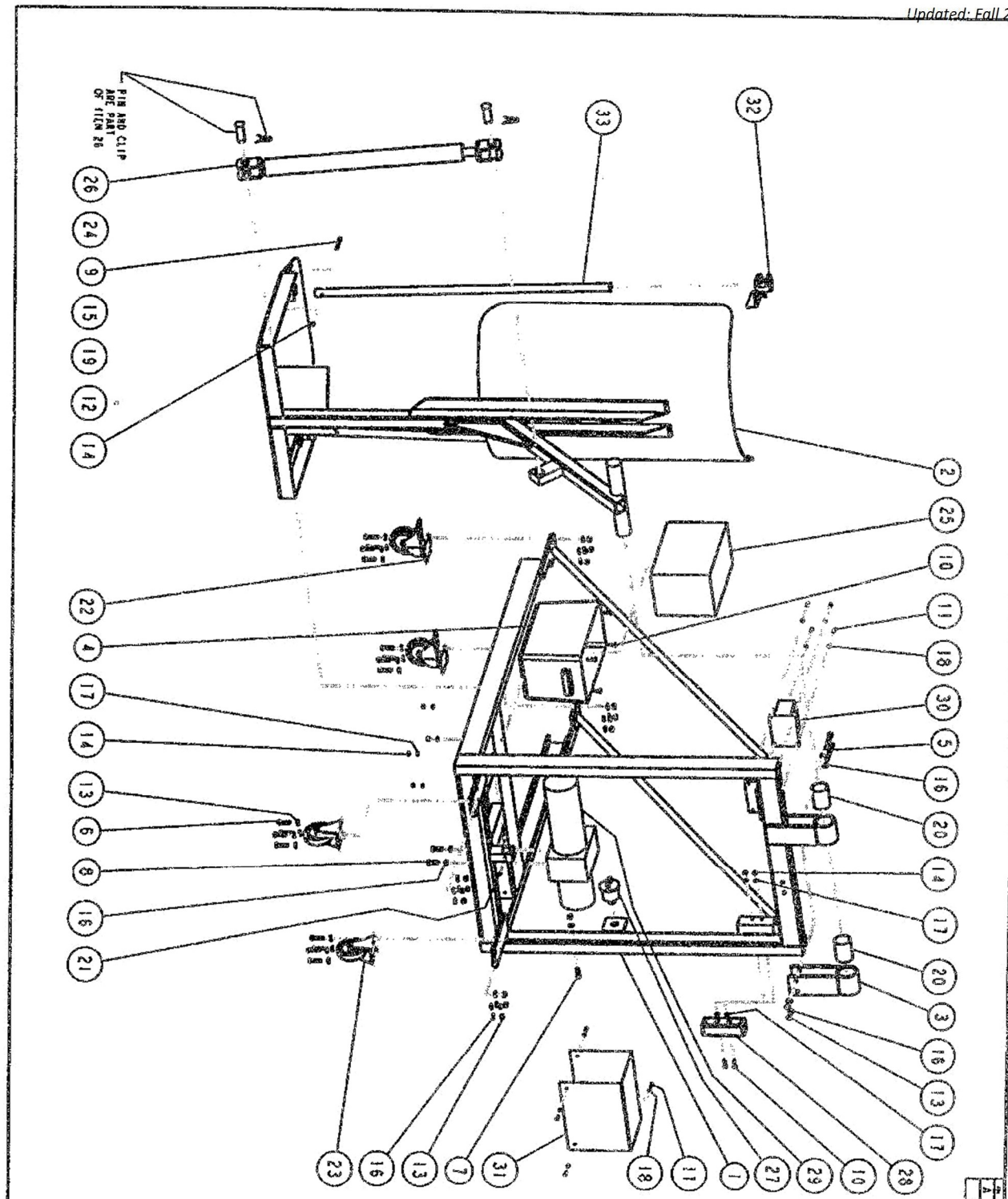
3042-00-2019



3042-00-2001



DRAWING F2



ITEM	PART NO.	DESCRIPTION/NOMENCLATURE	QTY.
33	3981-00-0123	CAM HOLDER LOWER PART	2
32	3981-00-0124	CAM HOLDER UPPER PART	2
31	3981-00-0123	MOTOR COVER	1
30	3203-MT-4034	BATTERY CHARGER	1
29	3042-00-2004	FINGER POWER UNIT	1
28	3042-00-2022	CONTROL HANDSET	1
27	3063-00-4014	BATTERY DISCONNECT	1
26	3072-00-2001	CYLINDER	1
25	3063-MT-4030	BATTERY GROUP 31	1
24	3981-00-0109	SPRING- ATLAS LIFT	2
23	3981-00-0106	RIGID CASTER, 4"	2
22	3981-00-0107	SWIVEL CASTER, 4"	2
21	1/4-28	GREASE FITTING	2
20	2.25"O.D. x 2"L	OILITE BUSHING	2
19	1/2	LOCKWASHER	2
18	1/2	LOCKWASHER	8
17	1/4	LOCKWASHER	10
16	3/8	LOCKWASHER	39
15	1/2-20	HEX NUT	2
14	1/4-20	HEX NUT	8
13	3/8-16	HEX NUT	19
12	1/2-20, 1.75"L	HEX HD CAP SCR.	2
11	1/2-20, 0.50"L	HEX SOC. HD CAP SCR.	2
10	1/4-20, 0.75"L	HEX HD CAP SCR.	8
9	5/16"DIA. x 2.0"L	SHOULDER SCREW	2
8	3/8-16, 0.75"L	HEX HD CAP SCR.	2
7	3/8-16, 1.00"L	HEX HD CAP SCR.	2
6	3/8-16, 1.50"L	HEX HD CAP SCR.	1
5	3/8-16, 3.50"L	HEX HD CAP SCR.	16
4	3063-MT-4037	BATTERY BOOSTER	2
3	3981-00-0122	PIVOT, WELDMENT	1
2	3981-00-0121	MAIN ARM, WELDMENT	1
1	3981-00-0120	FRAME, WELDMENT	1

DO NOT SCALE ATLAS MOBILE LIFTER, PARTS

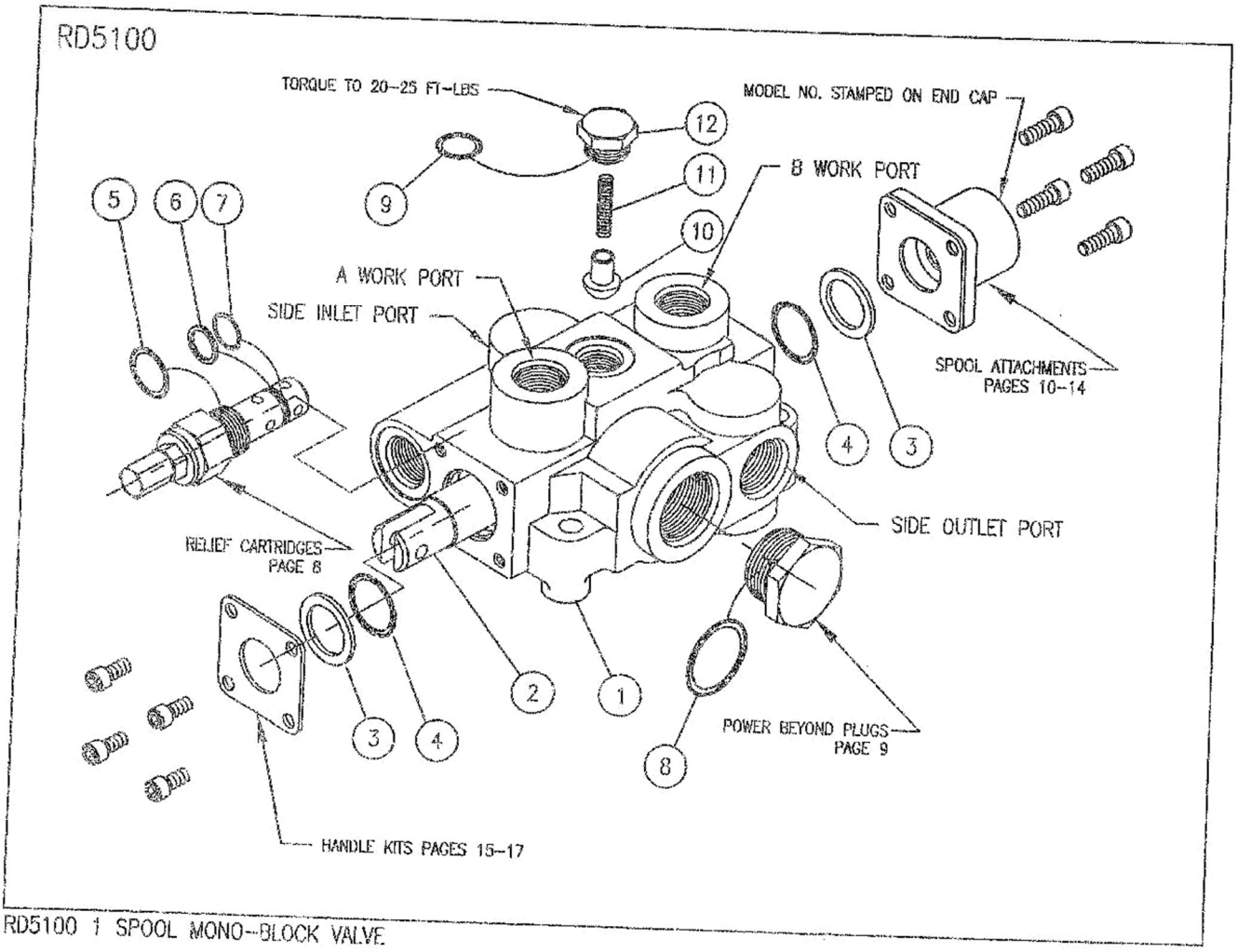
D. STIEL 09-Nov-01 3:28

3981-INT-1000

TIGER INCORPORATED STATESVILLE, NC

17-00-1219 A

ZONE	REVISION	DATE	APPROVED
A	ECN 3	7/15/03	MODIFIED HANDLE ASSEMBLY



RD5100 1 SPOOL MONO–BLOCK VALVE

RD5100 1 SPOOL MONO–BLOCK VALVE

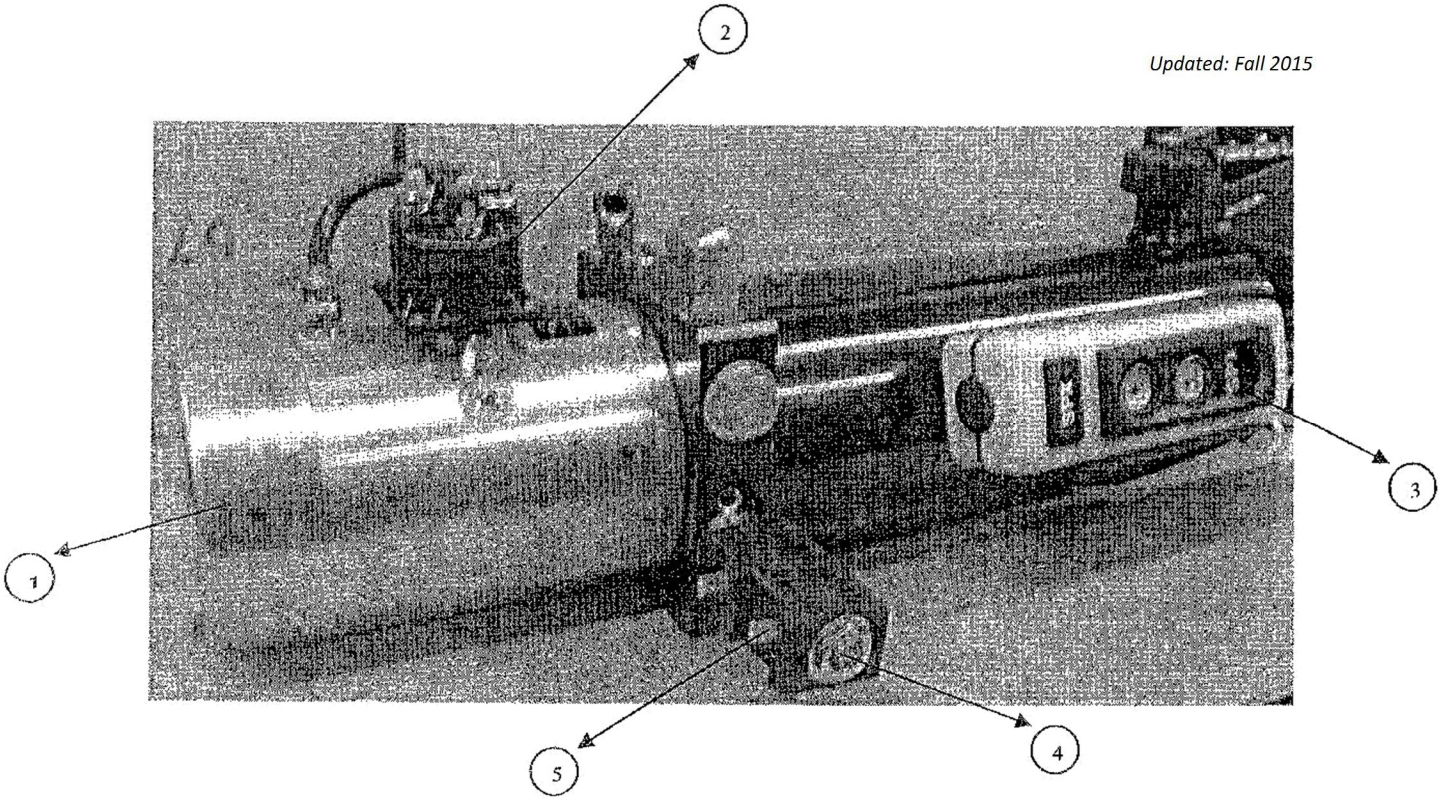
ITEM	QTY	PART NO.	DESCRIPTION
1	1		1 SPOOL VALVE BODY
2	1	SEE NOTE 1	SPOOL } These are matched parts and are not sold seperately.
3	2	670500010	SPOOL SEAL BACK–UP
4	2	240000213	213 O–RING
5	1	240000116	116 O–RING
6	1	240019015	015 BACK–UP
7	1	240000015	015 O–RING } SEAL KIT 660551001 (PLUS OTHERS)
8	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.

ITEM	PART NO.	DESCRIPTION/MATERIAL	QTY.
33	3081-00-0125	CAN HOLDER- LOWER PART	2
32	3081-00-0124	CAN HOLDER- UPPER PART	2
31	3081-00-0123	MOTOR COVER	1
30	3063-MT-6036	BATTERY CHARGER	1
29	3042-00-2006	FENNER POWER UNIT	1
28	3042-00-2022	CONTROL HANDSET	1
27	3063-00-6014	BATTERY DISCONNECT	1
26	3072-00-2001	CYLINDER	1
25	3063-MT-6038	BATTERY GROUP 31	1
24	3081-00-0109	SPRING- ATLAS LIFT	2
23	3081-00-0108	RIGID CASTER, 4"	2
22	3081-00-0107	SWIVEL CASTER, 4"	2
21	1/4-28	GREASE FITTING	2
20	2.25/2"DIA. x3"L	OILITE BUSHING	2
19	[illegible]	LOCKWASHER	2
18	[illegible]	LOCKWASHER	8
17	1/4	LOCKWASHER	10
16	3/8	LOCKWASHER	39
15	[illegible]	HEX NUT	2
14	1/4-20	HEX NUT	8
13	3/8-16	HEX NUT	19
12	[illegible], 1.75"L	HEX.HD.CAP SCR.	2
11	[illegible], 0.50"L	HEX.SOC.HD.CAP SCR.	8
10	1/4-20, 0.75"L	HEX.HD.CAP SCR.	2
9	5/16"DIA. x 2.0"L	SHOULDER SCREW	2
8	3/8-16, 0.75"L	HEX.HD.CAP SCR.	2
7	3/8-16, 1.00"L	HEX.HD.CAP SCR.	1
6	3/8-16, 1.50"L	HEX.HD.CAP SCR.	16
5	3/8-16, 3.50"L	HEX.HD.CAP SCR.	2
4	3063-MT-6037	BATTERY BOX	1
3	3081-00-0122	PIVOT, WELDMENT	1
2	3081-00-0121	MAIN ARM, WELDMENT	1
1	3081-00-0120	FRAME, WELDMENT	1

DO NOT SCALE | ATLAS MOBILE LIFTER, PARTS | TOLERANCES UNLESS OTHERWISE SPECIFIED | DRAWN D.STIEL | 3:20 | 09-Nov-01 | 3081-MT-1000 | REV. D

TOOER INCORPORATED STATESVILLE, NC

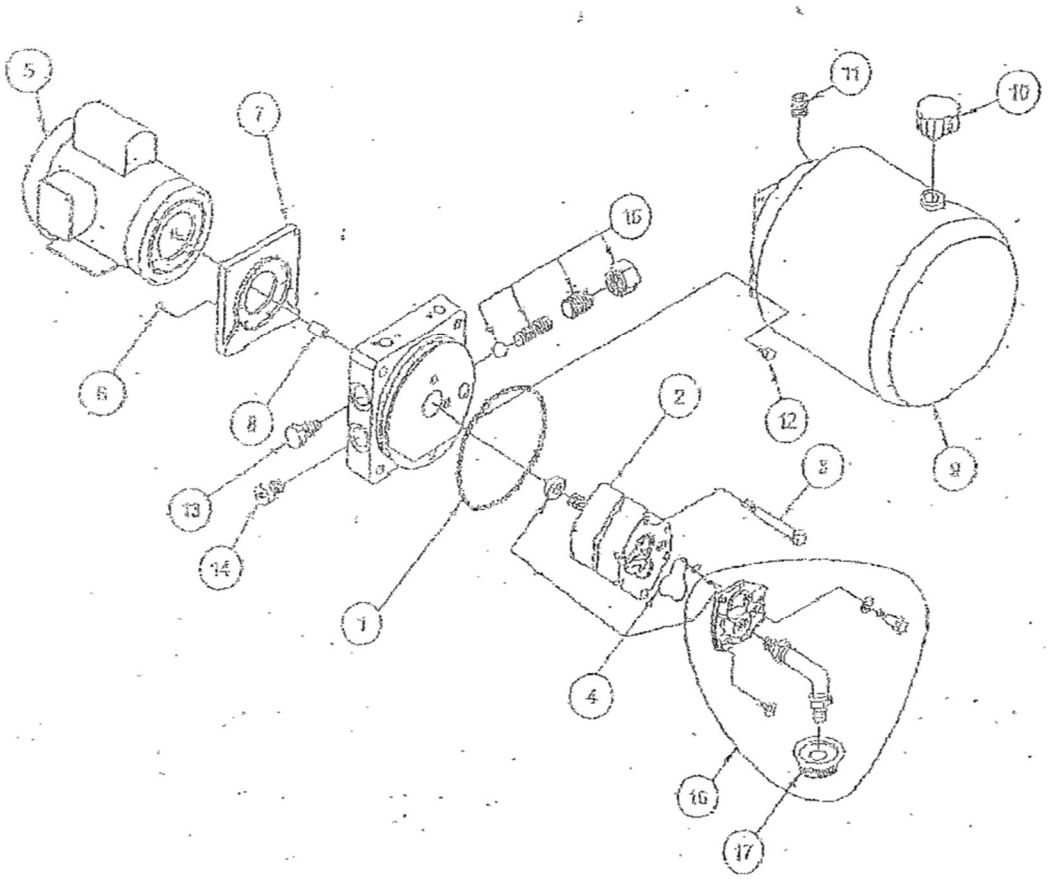


3042-00-3000 12 VOLT POWER UNIT

1. 3042-00-2044	12 VOLT MOTOR
2. 3042-00-2020	12 VOLT SOLENOID
3. 3042-00-2023	HANDSET FENNER
4. 3042-00-0084	CARTIAGE VALVE SPX
5. 3042-00-0064	12 VOLT COIL SPX
6. 3042-00-2010	PUMP (NOT SHOWN)

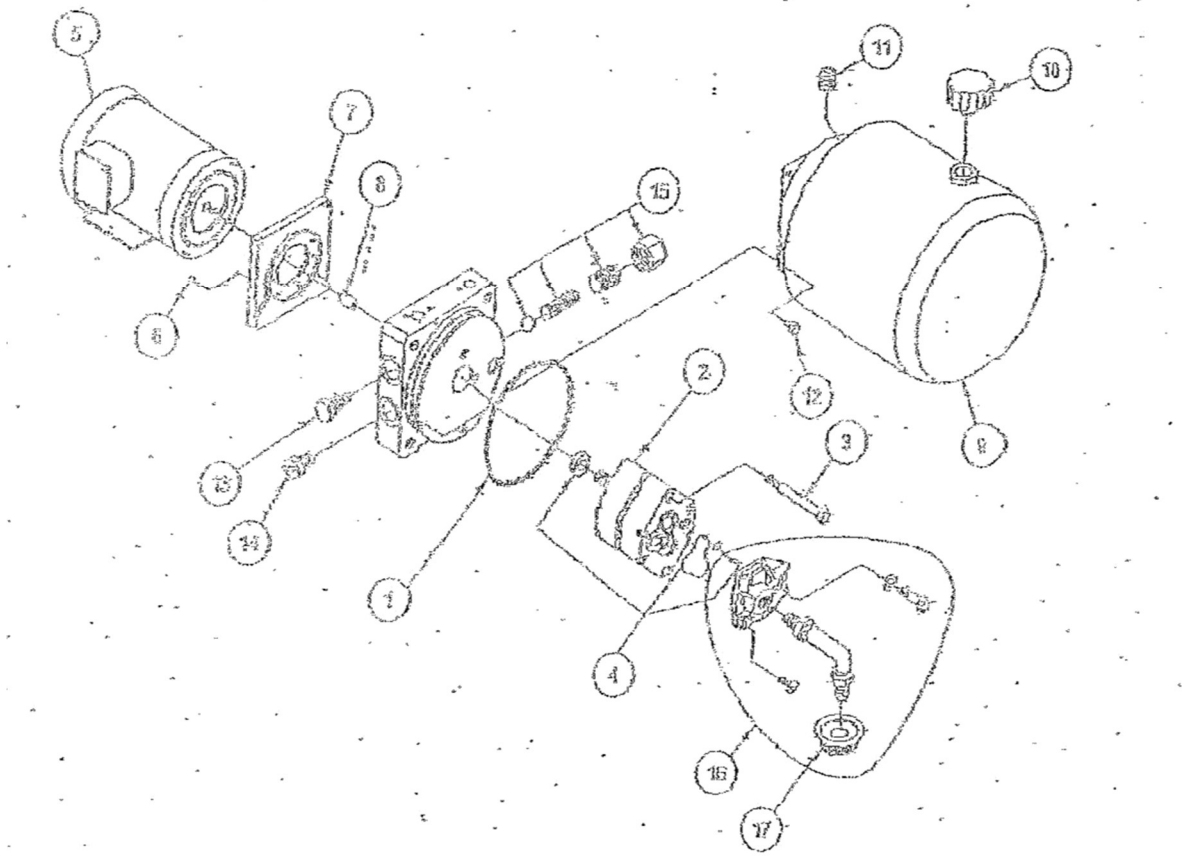
PARTS DRAWING 5354-F1-3001
POWER UNIT

Updated: Fall 2015

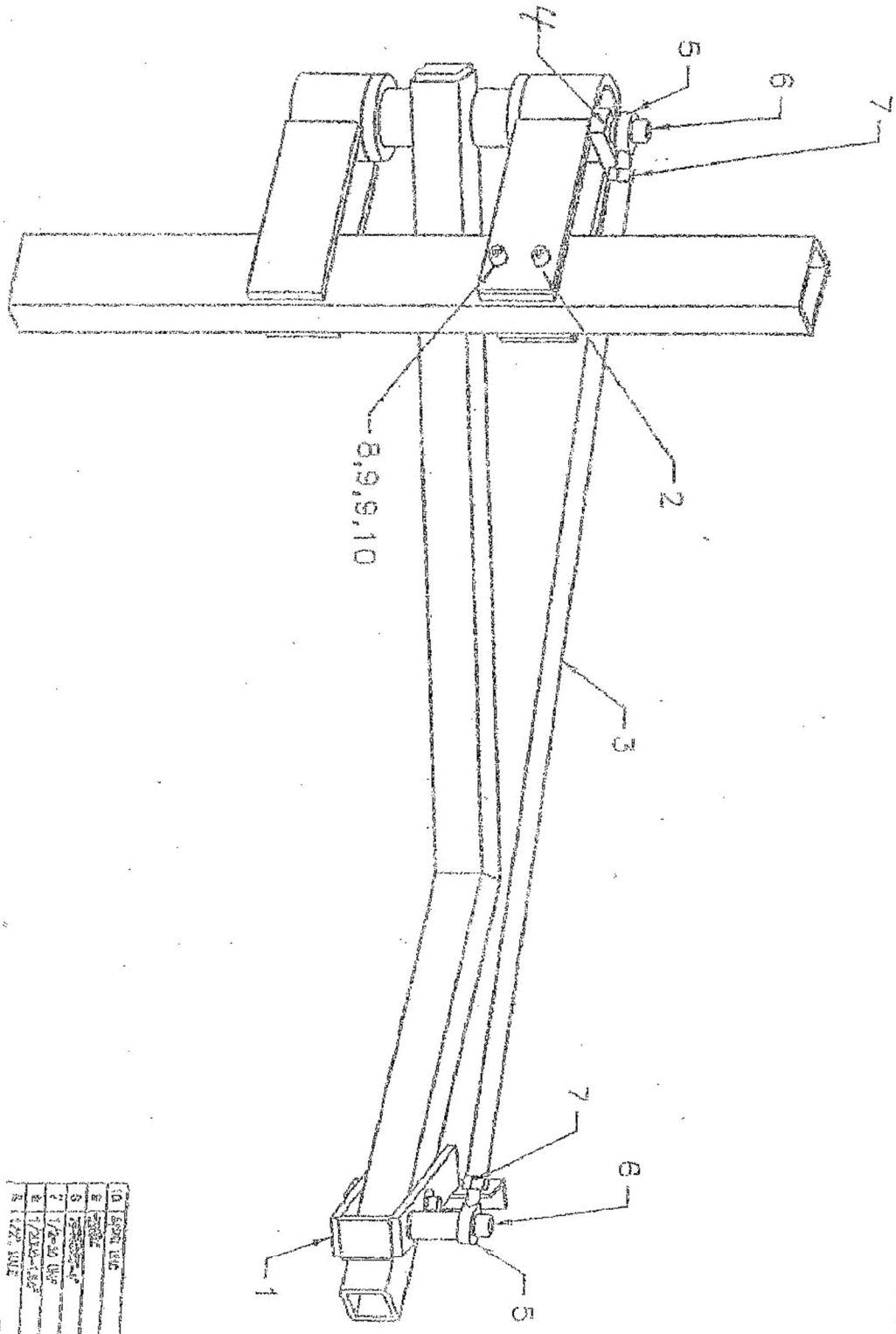


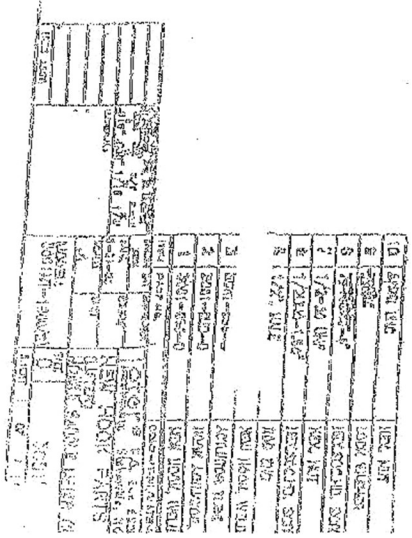
1		Reservoir O-Ring		10	Breather
2		Pump		11	Plug
3		Bolt		12	Bolt
4		Seal Kit		13	Valve Plug 2-way
5		Single Phase AC Motor		14	Plug
6		Bolt		15	Dist. Relief Valve Kit
7		Motor Adaptor		16	Horizontal Plumbing Kit
8		Coupling		17	Filter
9		Reservoir			

PARTS DRAWING 5354-F3-3003
POWER UNIT



1		Reservoir O-Ring		10	Breather
2		Pump		11	Plug
3		Bolt		12	Bolt
4		Seal Kit		13	Valve Plug 2-way
5		Three Phase AC Motor		14	Plug
6		Bolt		15	Dist. Relief Valve Kit
7		Motor Adaptor		16	Horizontal Plumbing Kit
8		Coupling		17	Filter
9		Reservoir			


5
6
7
8,9,10
2
3
7
6
1
5

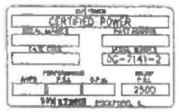


DC7141-2

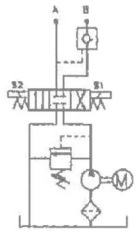
Updated: Fall 2015

REVISIONS					
REV	BY	CHECKED	ECO	DATE	DESCRIPTION
1	KSS	AH	D81018J2	13/FEB/2009	REMOVED 11945, 25103, AND T1-1019-05(X) AND ADDED 2001644 AHC 5137-AA(8)

** NAMEPLATE INFORMATION **

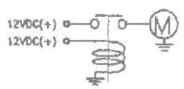


** HYDRAULIC CIRCUIT **

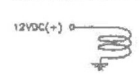


** ELECTRIC CIRCUIT **

START SWITCH AND MOTOR



DIRECTIONAL VALVE SOLENOID



** UNIT SPECIFICATION **

MOTOR	12 VOLT DC; 1 TERMINAL; STANDARD DUTY
PUMP	A.P.I.C. 2.8 CC/REV. (.122 CU.IN./REV.)
RELIEF	ADJUSTABLE RELIEF VALVE SET AT 2800 P.S.I.
ENDHEAD	(2) 9/16 SAE PRESSURE-RETURN PORT "A"&"B" (3) 3/8-16 TAP ↓ .38 DEEP MTG. HOLES
VALVING	12VDC 3P4W CLOSED CENTER VALVE P.D. CHECK VALVE PORTS "B"
WIRING	12VDC TO MOTOR, START SWITCH, & COILS
ASSEMBLY FINISHING	WIPE UNIT CLEAN OF OIL. PLUG MOTOR DRAIN HOLES STAMP PRESSURE/RETURN PORTS "A" & "B"
PACKING SHIPPING	SHIP CORDSET, NAMEPLATE, & 04-1000-00 LOOSE IN CARTON, CARTONS ON PALLET

** UNIT PERFORMANCE **

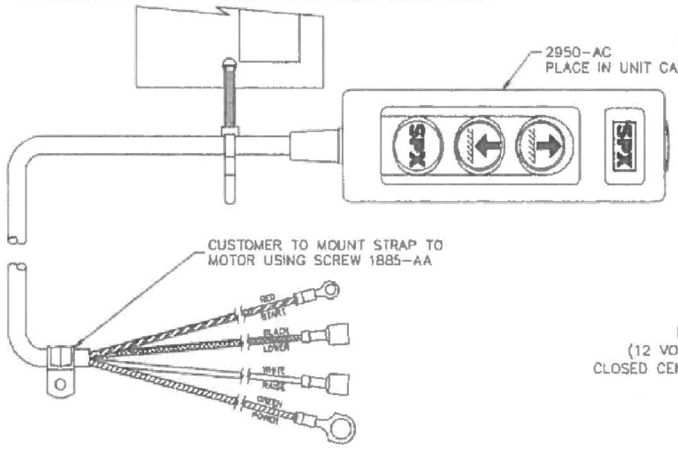
1.3 G.P.M. AT 2800 P.S.I.
AT 11.7 VOLTS DC & 300 AMPS
AT 45 CENTISTOKES (200 SSU)

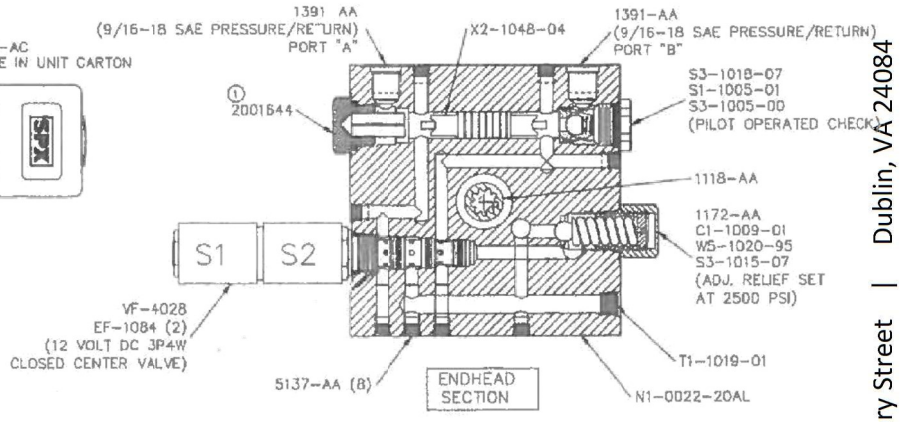
SPX MANUFACTURING STANDARDS

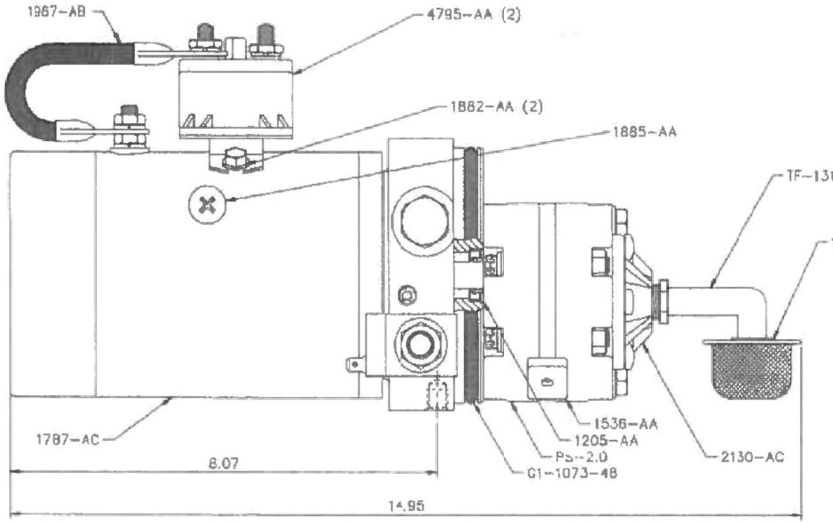
FASTENER TORQUES	2.11.01
LABELING	2.18.20
PERFORMANCE LIMITS	2.18.24

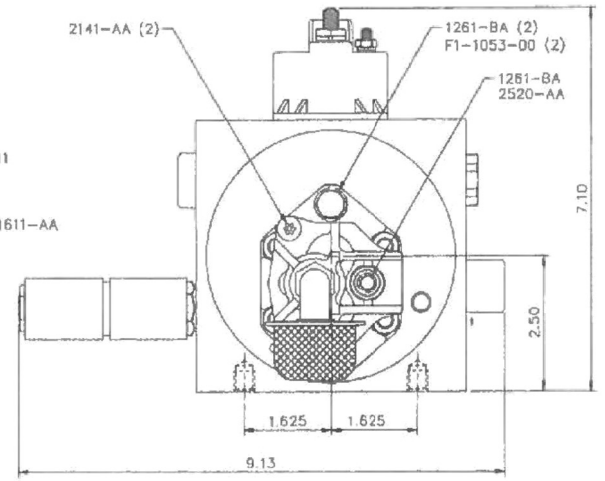
WARNING

THIS POWER UNIT DOES NOT CONTAIN DEVICES WHICH PROTECT USERS FROM THE EFFECTS OF SUDDEN LOSS OF PRESSURE IN HYDRAULIC CYLINDERS.







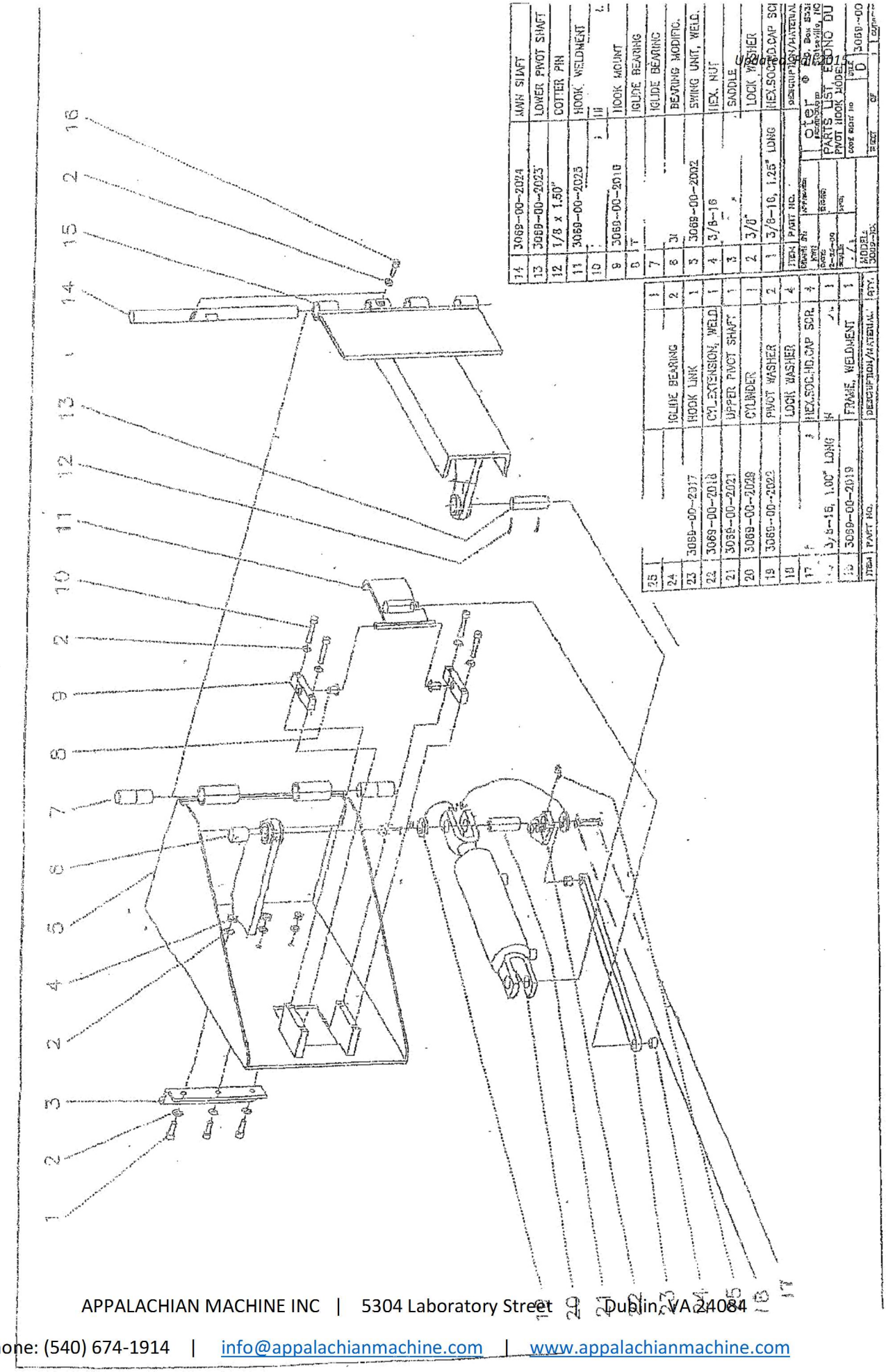


THIRD ANGLE PROJECTION	TOLERANCES UNLESS NOTED: ANGLES ± 1° 1 PLACE ± .020 2 PLACES ± .010 3 PLACES ± .005 4 PLACES ± .001 FINISH 125 MAX C/B .020	DRAWN BY P. SCHNEIDER	DATE DRAWN 8/18/08	FOR PART OR OPER.	SPX HYDRAULIC TECHNOLOGIES
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPX FLUID POWER. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION OF SPX FLUID POWER IS STRICTLY PROHIBITED.		CHECKED BY T. MATHEY	DATE CHECKED 8/19/08	HEAT TREAT	DRAWING NAME DC UNIT (CERTIFIED POWER)
		MATERIAL	ALT. MATERIAL	FINISH	DRAWING NUMBER DC-7141-2

TRACKING NUMBER EWD 1376 | SCALE N/A | SIZE D | REV | SHEET 1

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4/27/2009 4:19:15 PM



ITEM	PART NO.	DESCRIPTION/MATERIAL	QTY.
14	3069-00-2024	MAIN SHAFT	1
13	3069-00-2023	LOWER PIVOT SHAFT	1
12	1/8 x 1.50"	COTTER PIN	2
11	3069-00-2028	HOOK, WELDMENT	1
10			
9	3069-00-2018	HOOK MOUNT	1
8		IGLIDE BEARING	1
7		IGLIDE BEARING	2
6		BEARING MODIFIC.	
5	3069-00-2002	SWING UNIT, WELD.	1
4	3/8-16	HEX. NUT	1
3	"	SADDLE	1
2	3/8"	LOCK WASHER	1
1	3/8-16, 1.25" LONG	HEX.SOC.HD.CAP SCR.	1

ITEM	PART NO.	DESCRIPTION/MATERIAL	QTY.
25			
24		IGLIDE BEARING	1
23	3069-00-2017	HOOK LINK	1
22	3069-00-2018	CYL.EXTENSION, WELD	1
21	3069-00-2021	UPPER PIVOT SHAFT	1
20	3069-00-2008	CYLINDER	1
19	3069-00-2022	PIVOT WASHER	2
18		LOCK WASHER	4
17		HEX.SOC.HD.CAP SCR.	4
16	3/8-16, 1.00" LONG		1
15	3069-00-2019	FRAME, WELDMENT	1

Oiler
PARTS LIST, FRONT MOUNT DU
PIVOT HOOK MODEL

Updated 2015

96 GALON

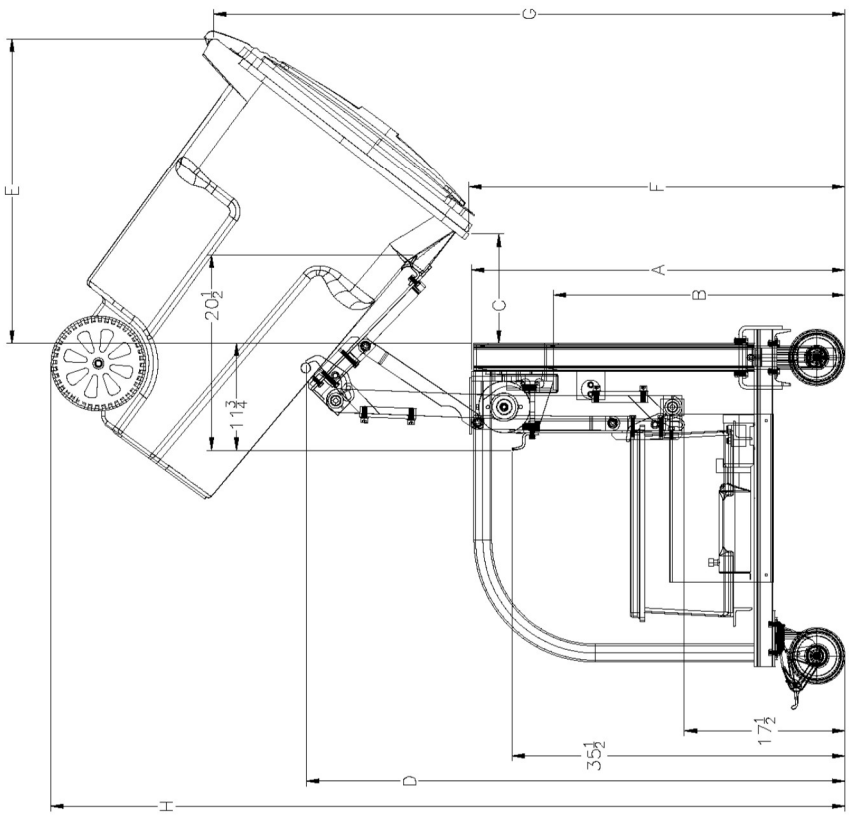
PART NO.	ARM	A	B	C	D	E	F	G	H
3063-TL-4H14	13.62	36	28	14	49	31.5	32.5	63	78.5
3063-TL-4H16	15.5	37.5	30	14	53	31.5	36	67	82.5
3063-TL-5H18	18	40.5	32.5	14	58	31.5	41.5	72	87.5
3063-TL-5H20	20	42.5	34.5	14	62	31.5	45.5	76	91.5
3063-TL-5H22	22	44.5	36.5	14	66	31.5	49.5	79	95.5
3063-TL-5H24	24	46.5	38.5	14	70	31.5	53.5	84	99.5
3063-TL-5H26	26	48.5	40.5	14	74	31.5	57.5	88	103.5
3063-TL-5H28	28	50.5	42.5	14	78	31.5	61.5	92	107.5
3063-TL-5H32	32	54.5	46.5	14	86	31.5	69.5	100	115.5

64 GALON

PART NO.	ARM	A	B	C	D	E	F	G	H
3063-TL-4H14	13.62	36	28	12.5	49	27.5	34	60.5	77
3063-TL-4H16	15.5	37.5	30	12.5	53	27.5	37.5	64.5	81
3063-TL-5H18	18	40.5	32.5	12.5	58	27.5	43	69.5	86
3063-TL-5H20	20	42.5	34.5	12.5	62	27.5	47	73.5	90
3063-TL-5H22	22	44.5	36.5	12.5	66	27.5	51	76.5	94
3063-TL-5H24	24	46.5	38.5	12.5	70	27.5	55	81.5	98
3063-TL-5H26	26	48.5	40.5	12.5	74	27.5	59	85.5	102
3063-TL-5H28	28	50.5	42.5	12.5	78	27.5	63	89.5	106
3063-TL-5H32	32	54.5	46.5	12.5	86	27.5	71	97.5	114

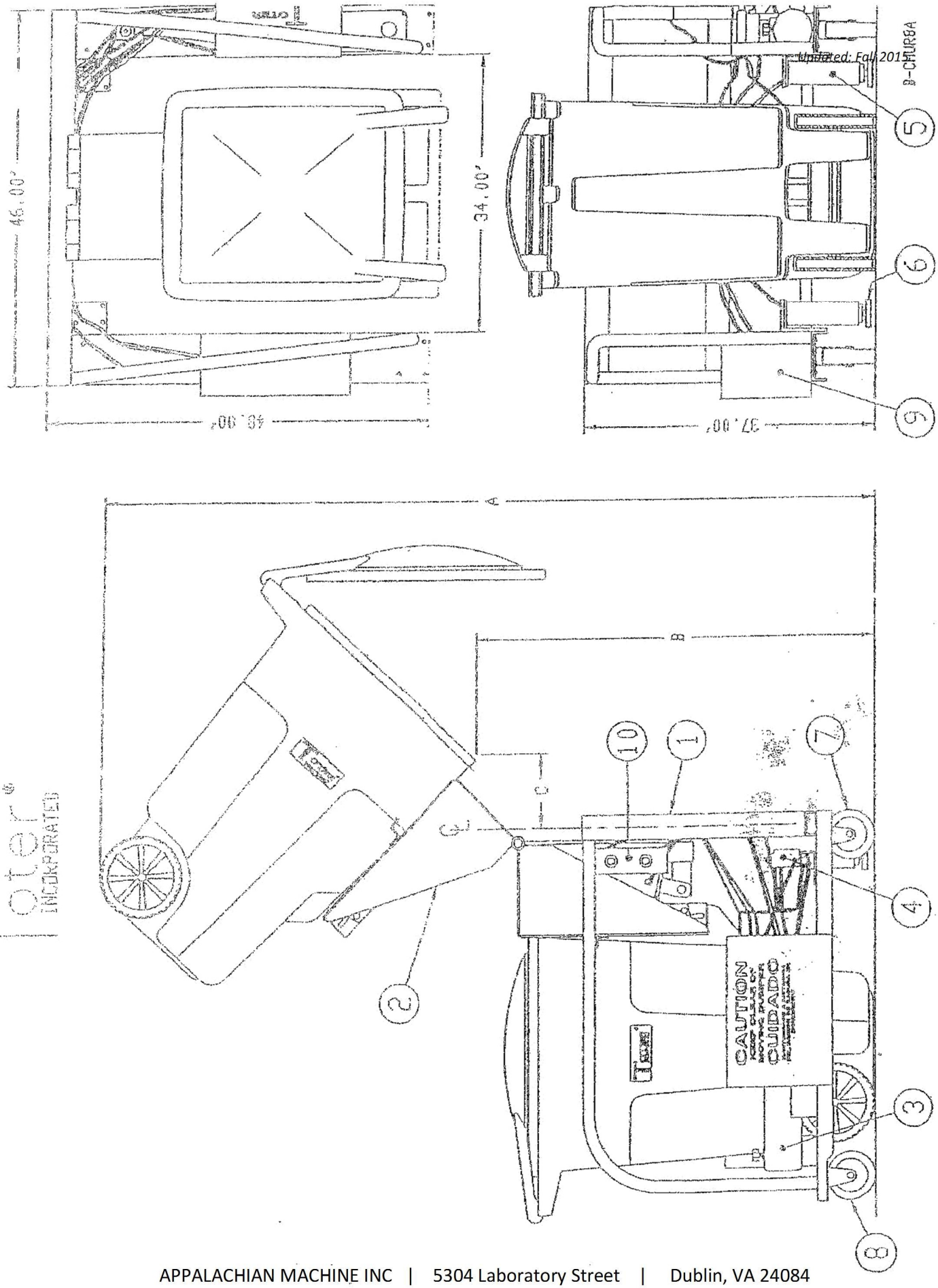
32 GALON

PART NO.	ARM	A	B	C	D	E	F	G	H
3063-TL-4H14	13.62	36	28	10	49	23.5	34.5	53	72
3063-TL-4H16	15.5	37.5	30	10	53	23.5	39.5	57	77
3063-TL-5H18	18	40.5	32.5	10	58	23.5	43.5	61	81
3063-TL-5H20	20	42.5	34.5	10	62	23.5	47.5	66	86
3063-TL-5H22	22	44.5	36.5	10	66	23.5	51.5	70	90
3063-TL-5H24	24	46.5	38.5	10	70	23.5	55.5	74	94
3063-TL-5H26	26	48.5	40.5	10	74	23.5	59.5	78	98
3063-TL-5H28	28	50.5	42.5	10	78	23.5	64.5	82	102
3063-TL-5H32	32	54.5	46.5	10	86	23.5	74.5	90	110



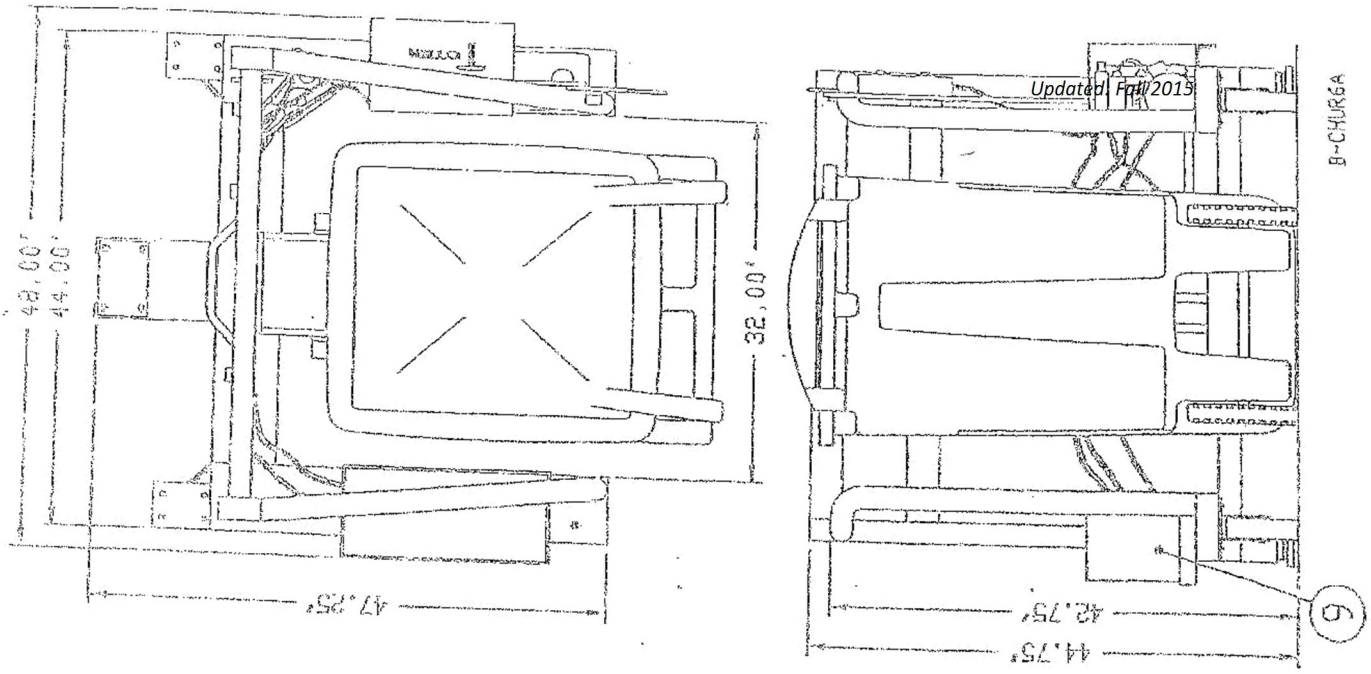
NOTE: 96 GALON SHOWN

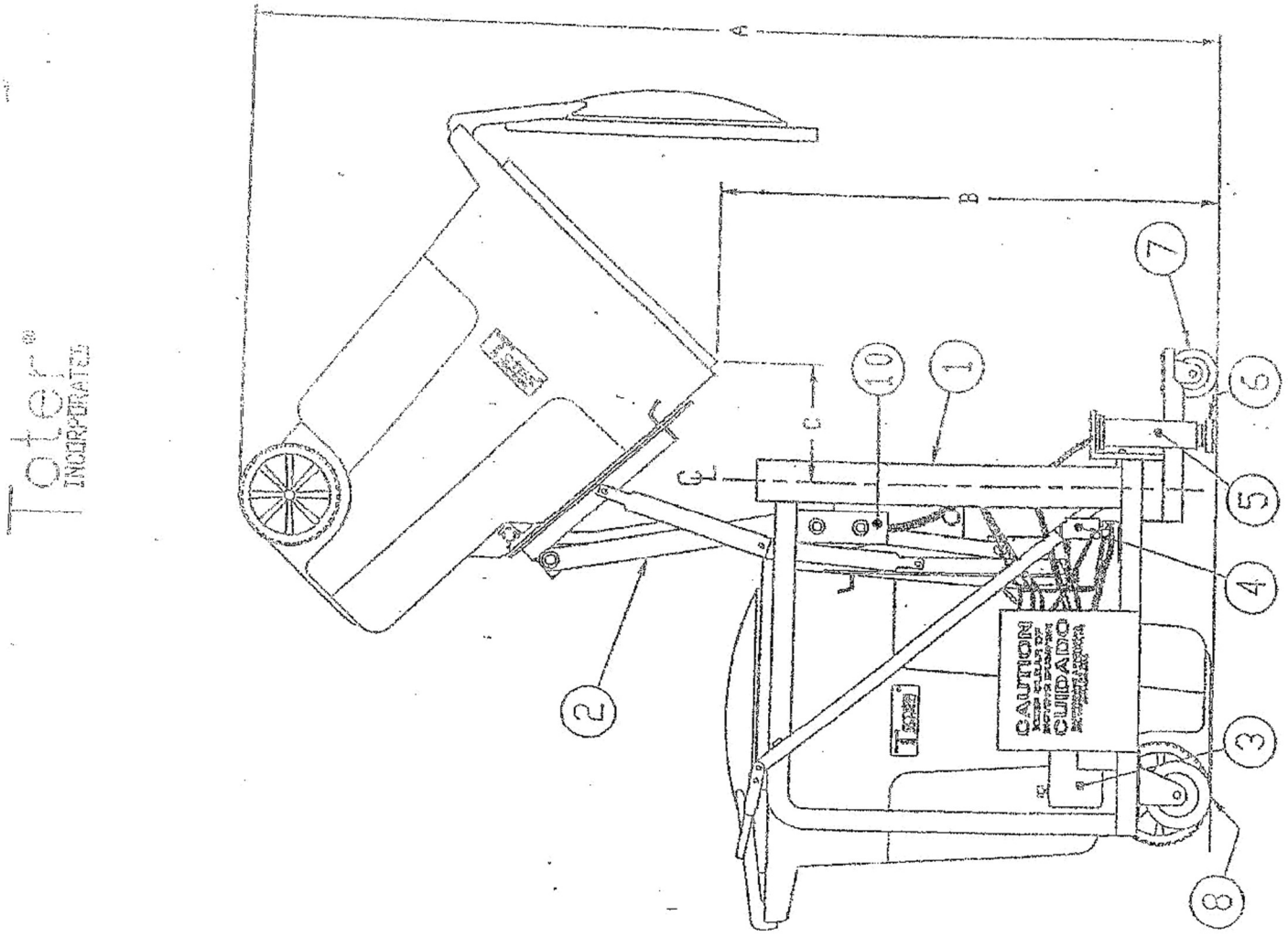
PART NO. -
UNS RWNG: -
WEIGHT: -
FEATURES: -
TOTER
STATESVILLE, N.C.
DATE 06-DEC-2010
DWG -
SIZE D



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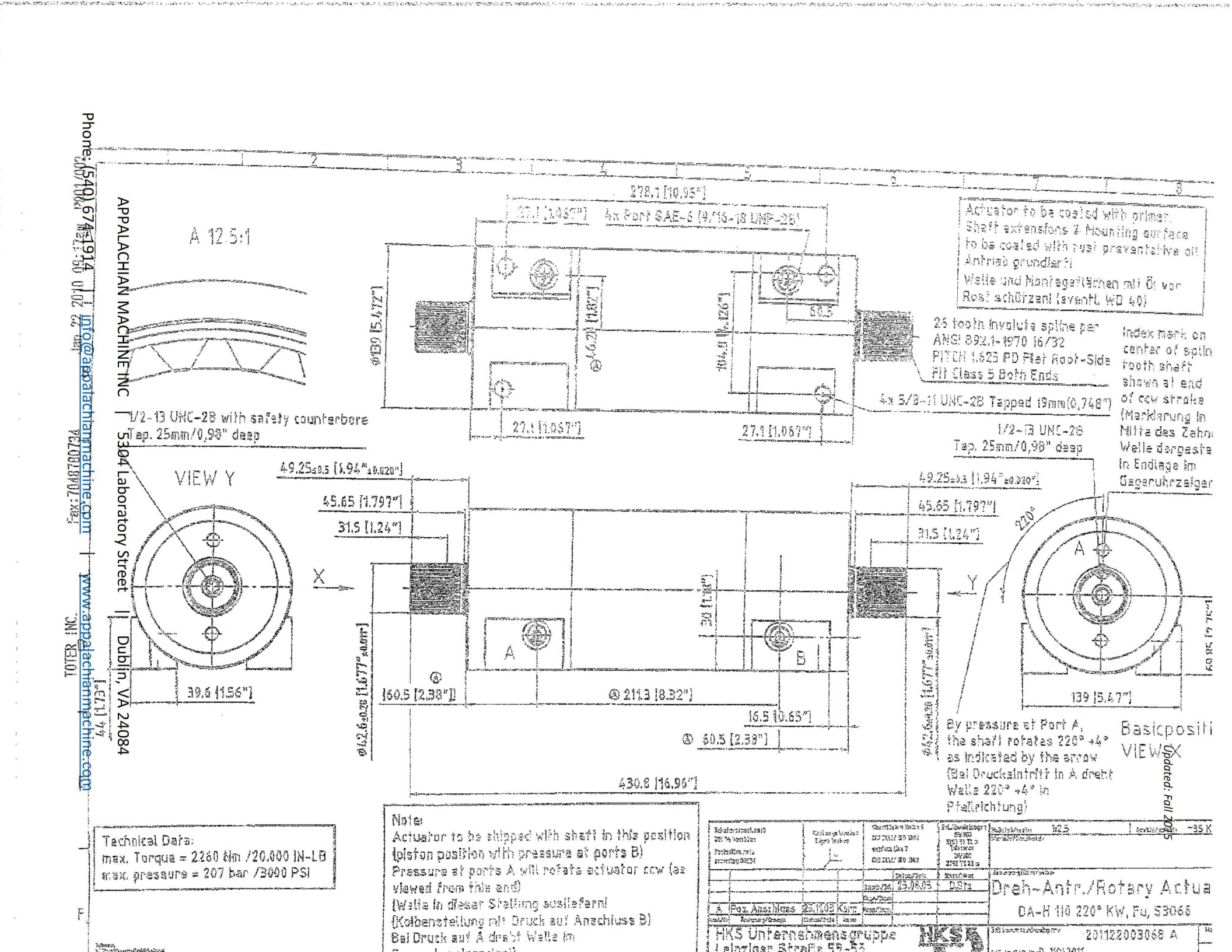




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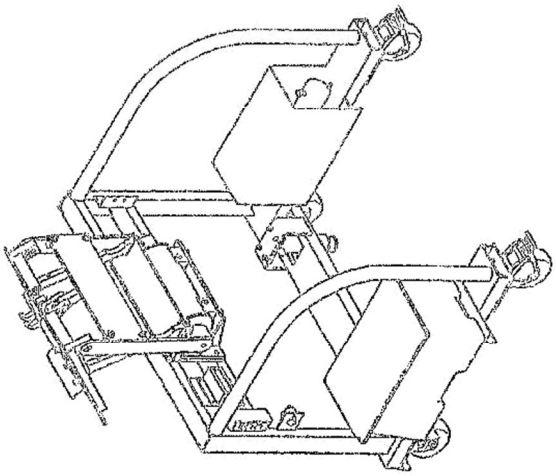
Technical Data:
max. Torque = 2260 Nm /20.000 IN-LB
max. pressure = 207 bar /3000 PSI

Note:
Actuator to be shipped with shaft in this position
(piston position with pressure at ports B)
Pressure at ports A will rotate actuator now (as viewed from this end)
(Welle in dieser Stellung auslieferni
(Kolbenstellung mit Druck auf Anschluss B)
Bei Druck auf A dreht Welle im

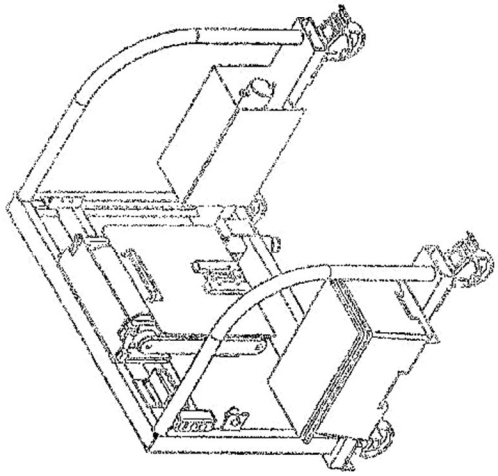
HKS Unternehmensgruppe
Leipziger Straße 52-58

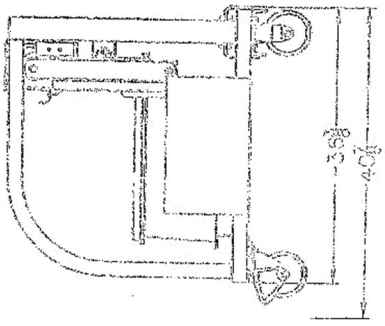
Dreh-Antr./Rotary Actua
DA-H 110 220° KW, Fu, S3066

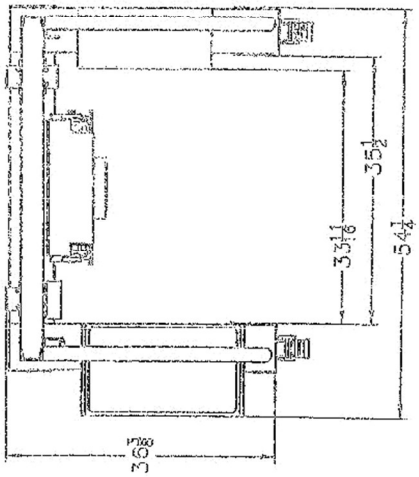
201122003068 A

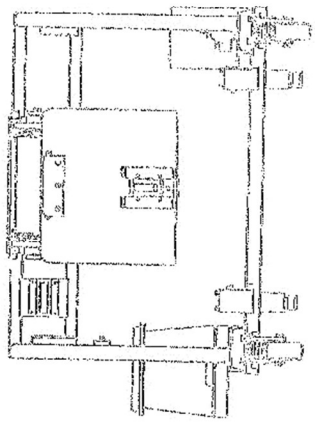






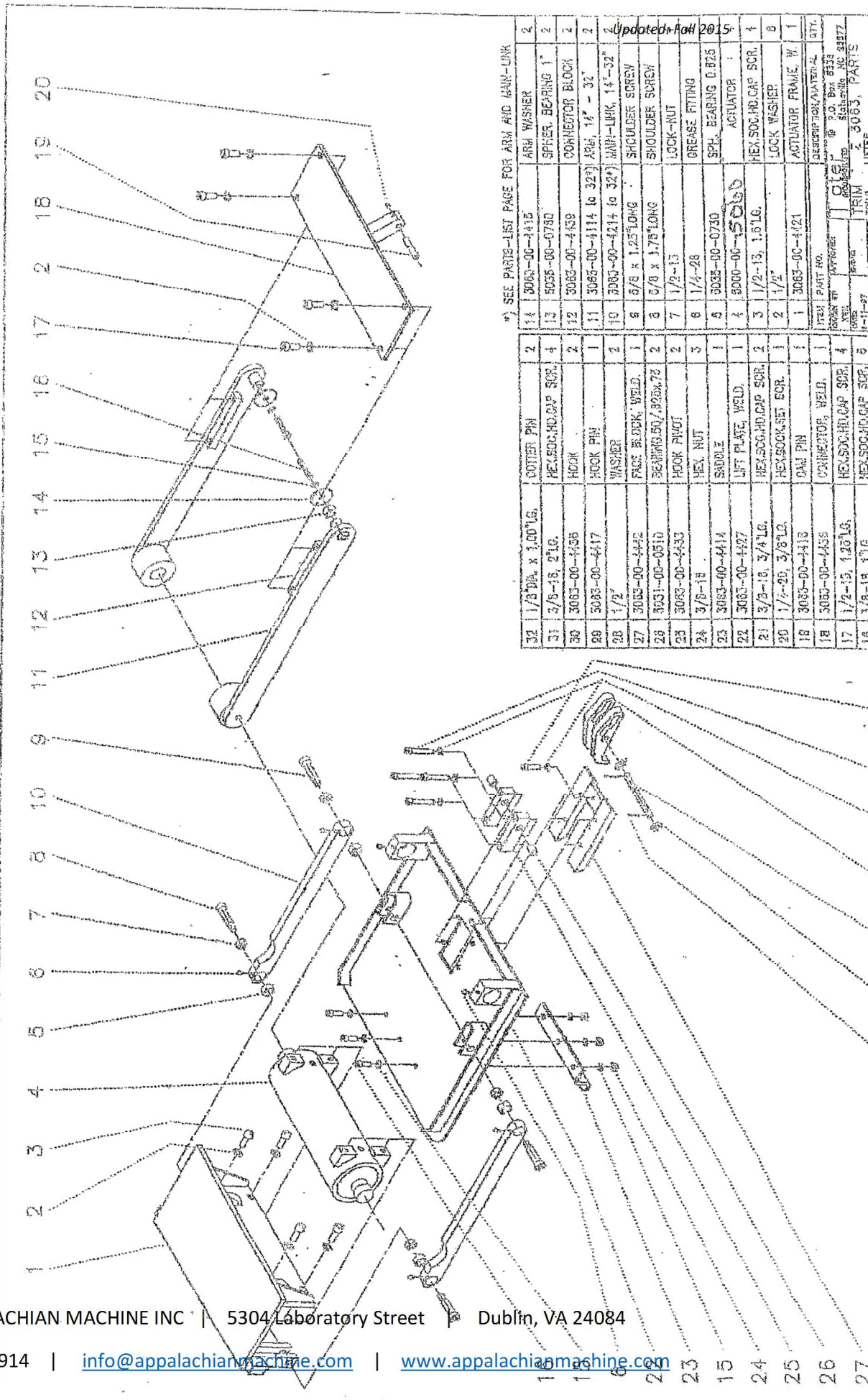






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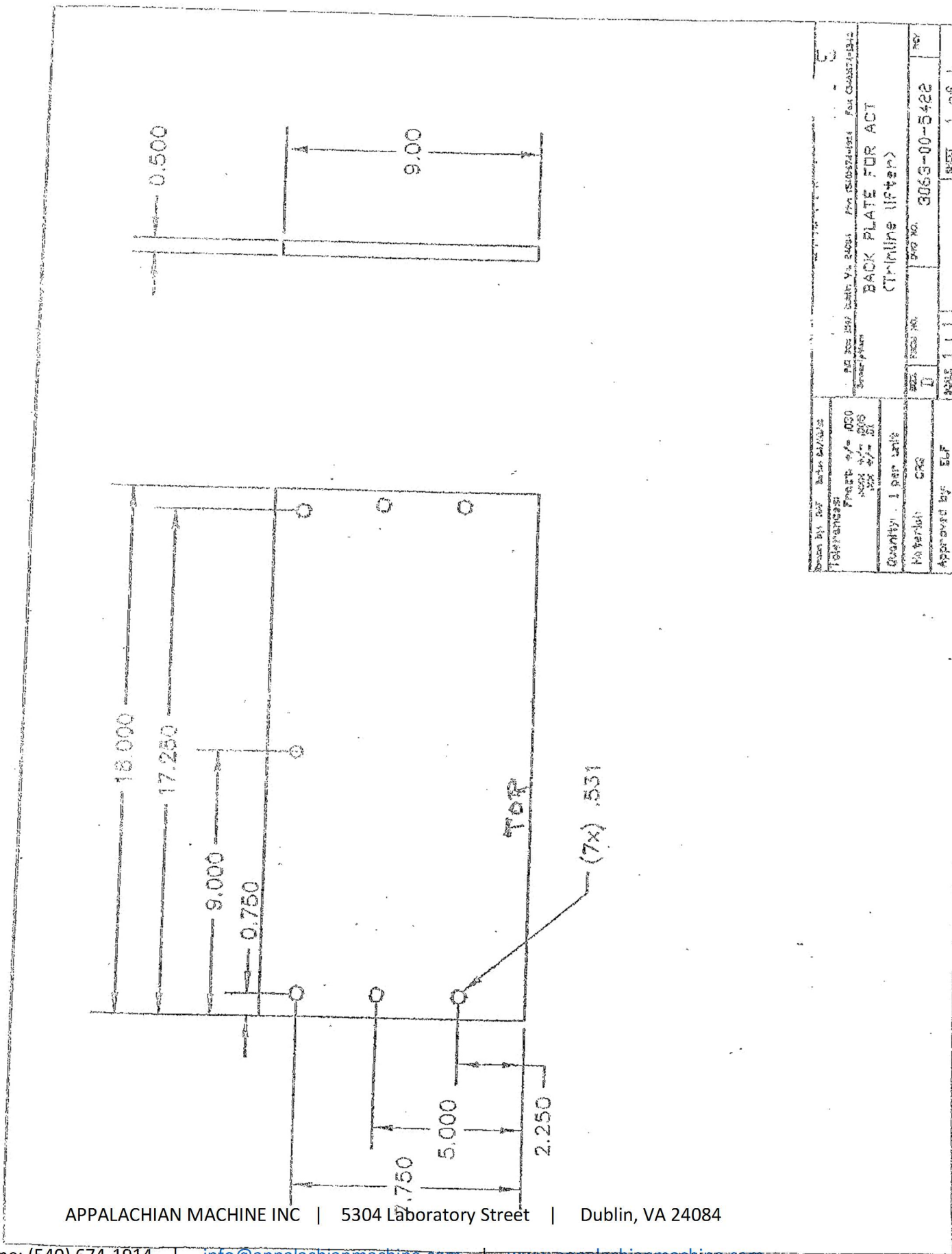
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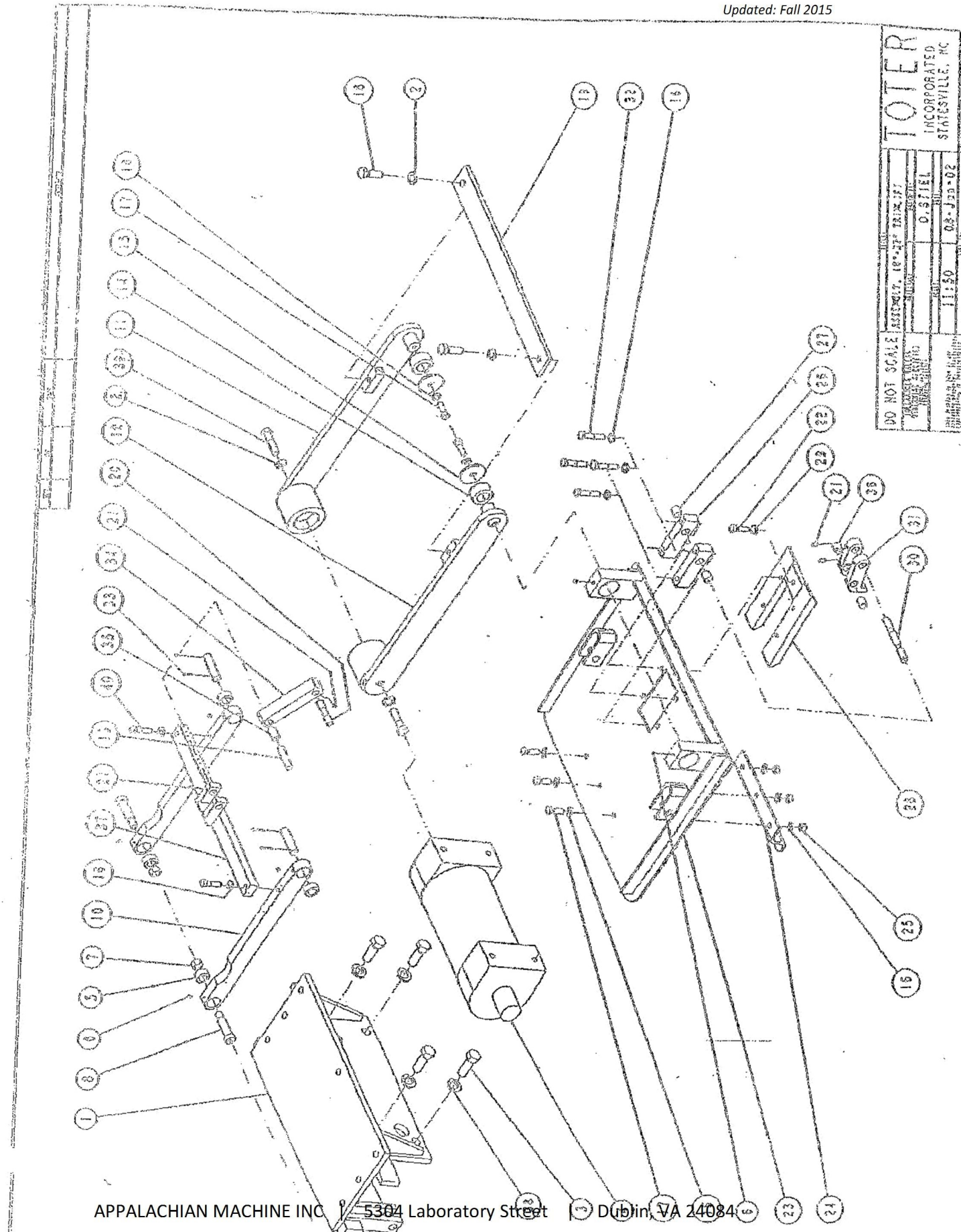
ITEM	PART NO.	DESCRIPTION/MATERIAL	QTY.
1	3063-00-4421	ACTUATOR FRAME, W.	1
2	1/2"	LOCK WASHER	8
3	1/2-13, 1.5"LG.	HEX.SOC.HD.CAP SCR.	4
4	8000-00-4506	ACTUATOR	2
5	9035-00-0730	SPH. BEARING 0.625	2
6	1/4-28	GREASE FITTING	2
7	1/2-13	LOCK-NUT	2
8	5/8 x 1.75"LONG	SHOULDER SCREW	2
9	5/8 x 1.25"LONG	SHOULDER SCREW	2
10	3063-00-4214 to 324?	MAIN-LINK, 14"-32"	2
11	3063-00-4114 to 323?	ARM, 14" - 32"	2
12	3063-00-4439	CONNECTOR BLOCK	2
13	9035-00-0730	SPHER. BEARING 1"	2
14	3063-00-4415	ARM WASHER	2

*) SEE PARTS-LIST PAGE FOR ARM AND MAIN-LINK

ITEM	PART NO.	DESCRIPTION/MATERIAL	QTY.
15	1/2"DIA. x 3.00"LG.	COTTER PIN	2
16	3/8-16, 2"LG.	HEX.SOC.HD.CAP SCR.	4
17	3063-00-4436	HOOK	2
18	3063-00-4417	HOOK PIN	1
19	1/2"	WASHER	2
20	3063-00-4442	FACE BLOCK, WELD.	1
21	3031-00-0510	BEARING.50/.3935x.72	2
22	3063-00-4433	HOOK PIVOT	2
23	3/8-16	HEX. NUT	3
24	3063-00-4414	SADDLE	1
25	3063-00-4427	LIFT PLATE, WELD.	1
26	3/8-16, 3/4"LG.	HEX.SOC.HD.CAP SCR.	2
27	1/2-20, 3/8"LG.	HEX.SOC.SET SCR.	1
28	3063-00-4418	CAM PIN	1
29	3063-00-4435	CONNECTOR, WELD.	1
30	1/2-13, 1.25"LG.	HEX.SOC.HD.CAP SCR.	4
31	3/8-16	HEX.SOC.HD.CAP SCR.	6



10 07 11:32a Purchasing 540-674-1543 p.2


TOTER
INCORPORATED
STATESVILLE, NC
DO NOT SCALE

NOTES

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