



PLEASE READ THE ENTIRE CONTENTS OF THIS MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING YOU AGREE THAT YOU FULLY UNDERSTAND AND COMPREHEND THE FULL CONTENTS OF THIS MANUAL. FORWARD THIS MANUAL TO ALL OPERATORS. FAILURE TO OPERATE THIS EQUIPMENT AS DIRECTED MAY CAUSE INJURY OR DEATH.

REV A 5900392 04-26-16

ASSEMBLY AND OPERATION MANUAL

OIL FILTER CRUSHER WITH STAND - 25 TON CAPACITY

MODEL: RP-50FC



Keep this operation manual near the machine at all times. Make sure that ALL USERS read this manual.

SHIPPING DAMAGE CLAIMS

When this equipment is shipped, title passes to the purchaser upon receipt from the carrier. Consequently, claims for the material damaged in shipment must be made by the purchaser against the transportation company at the time shipment is received.

BE SAFE

Your new Oil Filter/ Can Crusher was designed and built with safety in mind. However, your safety can be increased by proper training and thoughtful operation on the part of the operator. **DO NOT** operate or repair this equipment without reading this manual and the important safety instructions shown inside.



1645 Lemonwood Dr.
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RP-50FC OIL FILTER / CAN CRUSHER

WARRANTY POLICY

Ranger Products™ are backed by over 35 years of manufacturing experience. Every Oil Filter / Can Crusher bearing the Ranger™ name is sold with the following warranty.

- Each Ranger Product™ is warranted to be free from defects in workmanship and material for a period of one year from the date of shipment provided that a written claim for such defect is made within that time.
- This warranty does not cover damage or defects caused by carelessness of the operator, misuse, abuse or abnormal use which in any way impairs the proper functioning of the equipment or by the use or addition of parts not manufactured by Ranger Products™ or its suppliers.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS OR A PARTICULAR PURPOSE.

If your Ranger Products™ machine is not functioning properly, call your Ranger Products™ dealer immediately. On some occasions, an independent contractor may be hired to do the repairs. Within the warranty period, a customer should not hire his own contractor unless it is authorized in writing by Ranger Products™.

If it is necessary to return equipment for repairs, your dealer will so advise you. When returning equipment for repairs, see that machines are properly crated and protected, and prepay transportation.

Defective parts replaced at no charge must be returned to your dealer or Ranger Products™ within 60 days of the date that the replacement parts are shipped; otherwise, you must pay for the replacement parts at the current selling price.

OPERATOR PROTECTIVE EQUIPMENT

Personal protective equipment helps keep equipment use safer. However, equipment does not take the place of safe operating practices. Always wear durable work clothing. Shop aprons or shop coats may also be worn,

however loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect operators. Sturdy leather work shoes with steel toes and oil resistant soles should be used by personnel to help prevent injury in typical shop activities.

Eye protection is essential during installation and operation. Safety glasses with side shields, goggles, or face shields are acceptable.

Back belts provide support during lifting activities and are also helpful in providing operator protection. Consideration should also be given to the use of hearing protection if activity is performed in an enclosed area, or if noise levels are high.



OWNER'S RESPONSIBILITY

To maintain machine and user safety, the responsibility of the owner is to read and follow these instructions:

- ◆ Follow all installation instructions.
- ◆ Make sure installation conforms to all applicable Local, State, and Federal Codes, Rules, Regulations, such as State and Federal OSHA Regulations.
- ◆ Carefully check the unit for correct initial function.
- ◆ Read and follow the safety instructions. Keep them readily available for machine operators.
- ◆ Make certain all operators are properly trained, know how to safely and correctly operate the unit, and are properly supervised.
- ◆ Allow unit operation only with all parts in place and operating safely.
- ◆ Carefully inspect the unit on a regular basis and perform all maintenance as required.
- ◆ Service and maintain the unit only with authorized or approved replacement parts.
- ◆ Keep all instructions permanently with the unit and all decal's on the unit clean and visible.



IMPORTANT SAFETY INSTRUCTIONS

MAKE SURE TO READ AND UNDERSTAND ALL INSTRUCTIONS AND SAFETY PRECAUTIONS AS OUTLINED IN THE MANUFACTURER'S SERVICE MANUAL PRIOR TO USING THIS EQUIPMENT.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN DEATH OR BODILY HARM TO OPERATOR AND/OR BYSTANDERS

- ◆ Keep the crusher out of reach of children and other untrained persons. This press is dangerous in the hands of untrained users.
- ◆ Do not install this press on any asphalt or wood surface. Make sure the press is firmly secured to a dry, oil/grease free, flat, level, concrete surface.
- ◆ Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
- ◆ Always wear eye protection. Wear ANSI approved safety goggles. 
- ◆ Stay alert. Watch what you are doing and use common sense when operating the press. Do not use the press while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the press increases the risk of injury to persons.
- ◆ Always keep your hands, fingers or other body parts safely away from the crushing head during operation. 
- ◆ Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the press.
- ◆ Do not smoke when operating this unit and do not operate this unit when someone else in the vicinity is smoking.
- ◆ Do not operate the crusher in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. The press is able to create sparks resulting in the ignition of the dust or fumes.

- ◆ Do not attempt to crush aerosol cans, cylinders of compressed gas, fuel filters, or containers of flammable liquids or solvents.
- ◆ Do not alter or modify any part of this equipment.
- ◆ Always wear suitable industrial gloves when handling crushed objects to prevent injury. 
- ◆ Do not stack filters or cans inside the crushing chamber.
- ◆ DO NOT open the door while the unit is operating. Always wait for the press to cycle completely.
- ◆ Clear up any spilled oil immediately so it will not cause a slipping hazard.
- ◆ Keep the work area clean and well lighted. Cluttered benches and dark areas increase the risks of injury to persons.
- ◆ Prior to using the press, make sure all debris and/or tools are removed from inside the press bed area.
- ◆ Once contact between the press head and the filter/can has been made, step away as far as possible and continue to slowly apply pressure until the procedure is completed.
- ◆ DO NOT use an electrical extension cord with this unit due to increased amps and heat. 
- ◆ Never attempt to remove a filter or paint can that has become stuck in the moving parts of the press while it is connected to its air supply source.
- ◆ Avoid unintentional starting. Be sure the operation lever on the valve body is positioned to the neutral/off position before connecting to the air supply.
- ◆ Check crusher regularly for proper operation and repair or replace worn or damaged parts immediately. If the crusher appears to be damaged in any way, is badly worn, or operates abnormally it must be removed from use until repairs are made. Use only manufacturer's approved accessories and service parts.
- ◆ Always keep the RED emergency override switch clean and in working order.

TOOLS / SUPPLIES REQUIRED

Drill and concrete drill bit to mount unit to floor if desired. A plug to attach to the power unit electrical cord.



UNPACKING INSTRUCTIONS

1. Use caution when unbolting or unstrapping from shipping pallet. Components are heavy and may have shifted during shipping.

ASSEMBLY INSTRUCTIONS

1. If desired bolt crusher stand to the floor. Make sure to tighten bolts firmly, approximately 1 to 2 turns past hand tight - do not overtighten.

2. Place an approved waste oil container underneath crusher stand

3. Thread an appropriate fitting for your air supply into the air oil regulator. Use teflon tape on the threads.

5. Ensure an approved waste oil container is in place below the crusher before proceeding.

POWER UNIT

We strongly recommend that the electrical work must be performed by a qualified electrician.

MAINTENANCE

- ◆ Keep the press clean and free of debris and dirt. Dirt can cause failure in the hydraulic system.
- ◆ All exposed machine surfaces of the press should be brushed clean and wiped with WD-40 or equivalent.
- ◆ Regularly clean the press chamber to remove any accumulated sludge, metal particles or other debris that could affect the press operation.
- ◆ Keep the breather hole and oil drain free of accumulation of debris, and remove any materials that may be clogging the drain.
- ◆ Inspect for leaks and drain the approved Waste Oil Container in accordance with Local, State and Federal regulations.

- ◆ Lubricate sliding door on a regular basis to prevent the door from binding.
- ◆ Keep the RED Emergency button clean and in working order.
- ◆ Lubricate sliding door on a regular basis to prevent the door from binding.
- ◆ Change/replace hydraulic oil with SAE-10W or 20W non-foaming hydraulic oil every 5000 cycles (or about once each year) depending upon the degree of usage and the cleanliness of the work environment. Verify that the ram is completely retracted during oil change service.
- ◆ During oil change service, remove oil reservoir and clean away any dirt or other abrasive materials around the filler cap. With the oil reservoir removed, clean away dirt or other abrasive materials that have accumulated on the oil suction tube filter.
- ◆ Cycle the pump and ram without building pressure. Retract the ram and check the oil level in the pump reservoir. Fill reservoir until the oil level is one inch from the bottom of the fill port.

NOTE:

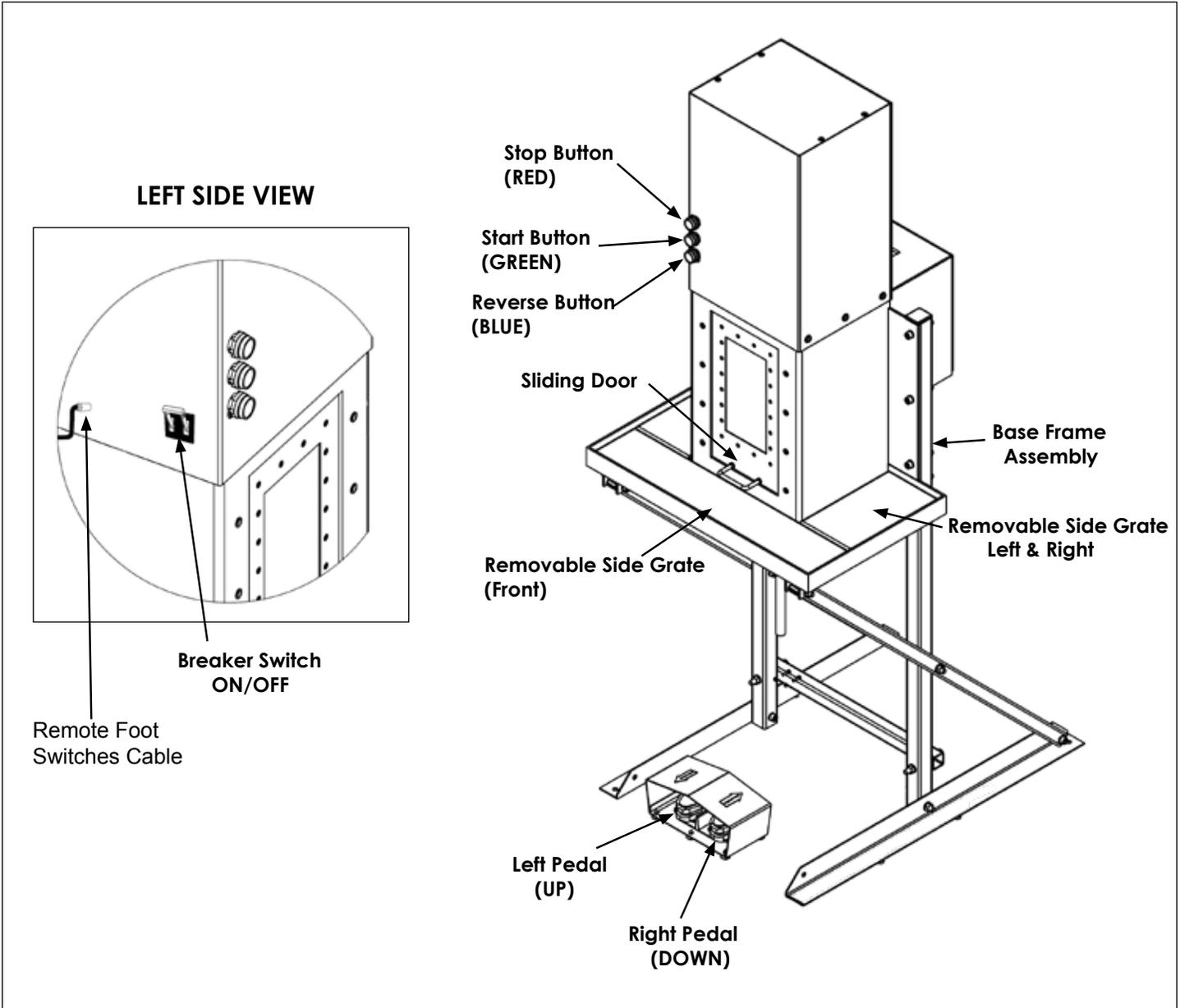
IF THE RAM RESPONDS SLOWLY OR IN AN UNSTABLE SPONGY MANNER, AIR IS LIKELY TRAPPED IN THE HYDRAULIC SYSTEM. TO REMOVE THE AIR, LOOSEN THE HOSE FITTINGS AT THE RAM AND RUN THE PUMP UNTIL YOU SEE A STEADY FLOW OF OIL (FREE OF AIR BUBBLES) ESCAPING FROM THE LOOSENED FITTINGS. TIGHTEN THE FITTING.



FOR TECHNICAL SUPPORT, PLEASE CALL:
1-(800) 253-2363 Ext. 196

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RP-50FC OIL FILTER CRUSHER



TECHNICAL SPECIFICATIONS	
• Overall Height: 90.5" / 2299 mm.	• Chamber Opening Depth: 11.5" / 292 mm.
• Overall Width: 32.5" / 826 mm.	• Average cycle time: 8-15 seconds
• Overall Depth: 31.5" / 800 mm.	
• Chamber Opening Height: 16" / 406 mm.	• Unit Weight: 415 lbs. / 188 kg.
• Chamber Opening Width: 9.8" / 249 mm.	208-230V, 60Hz, 1Ph

OPERATION



PRIOR TO OPERATION A VISUAL INSPECTION SHALL BE MADE. CHECK PRESS FOR LEAKS, WORN OR MISSING PARTS.

ANY PRESS THAT APPEARS TO BE DAMAGED IN ANY WAY, IS BADLY WORN, OR OPERATES ABNORMALLY MUST BE REMOVED FROM USE UNTIL REPAIRS ARE MADE. CONTACT A FACTORY AUTHORIZED SERVICE CENTER FOR REPAIR OR MAINTENANCE OF THE PRESS.

1. Place an approved waste oil container under the oil drain.
2. Lift the sliding door firmly and place empty filter in the center of chamber. Empty filter should be placed with the open end down.



3. Close the sliding door. **Important Note:** The door must be closed, to activate safety switch.
4. Press green button to start operation. The press ram will descend to crush the filter/can.
5. Once contact between the press ram and the filter/can has been made, step away until the procedure is completed. The press ram will extend downwards and automatically will retract to the original starting position and shut off when the cycle is complete..
6. To remove the crushed filter/can, grip the sliding door firmly. Do not get distracted. Be very careful not to scratch, cut or puncture your skin on the filter's sharp edges.



NEVER ATTEMPT TO REMOVE A FILTER OR PAINT CAN THAT HAS BECOME STUCK WHILE IN OPERATION. ALWAYS PRESS RED STOP BUTTON IF IT IS EVER NECESSARY TO INTERRUPT MACHINE OPERATION.

7. Turn "Off" (down position) breaker switch located on the top left side when the unit is not in use.



AVOID OFF-CENTER LOADS. IF THE PRESS SEEMS TO BE LABORING MORE THAN USUAL OR THE FILTER/CAN IS UNUSUALLY HARD TO PRESS, IMMEDIATELY STOP OPERATION. DO NOT OPERATE THE PRESS IF THE FILTER/CANTO TILTS OR BINDS DURING THE DOWN MOVEMENT OF THE PRESS HEAD.

MANUAL OPERATION

1. Plug remote foot switches cable to the connector located on the left bottom side of the control box. (See page 5). The right foot switch/pedal advances the press ram downwards to start the crushing process.
2. The left foot switch/pedal retracts the press ram. Either foot switch will also serve as an emergency stop.

CONTROL FUNCTIONS



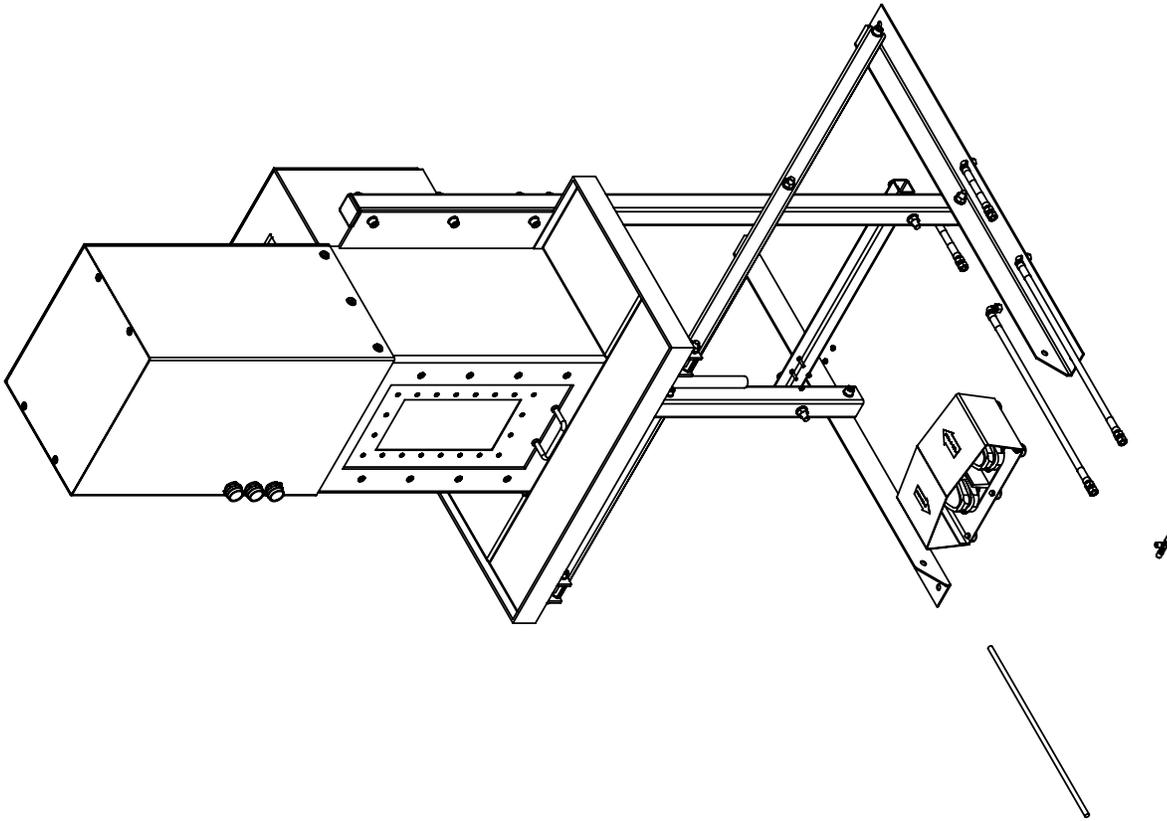
NEVER HOLD COLORED CONTROL BUTTONS DOWN IN THEIR ACTIVATED POSITION AS DAMAGE TO THE MACHINE AND/OR COMPONENTS MAY RESULT. TO PROPERLY OPERATE THE COLORED CONTROL BUTTONS, QUICKLY PRESS AND RELEASE. BY HOLDING THE CONTROL BUTTONS IN, DAMAGE TO THE MACHINE AND/OR COMPONENTS MAY RESULT.

RED BUTTON: Serves as and "Emergency Stop" button. Automatically stops all movement of the press ram during the automatic cycle.

GREEN BUTTON: Activates the automatic pressing cycle. After pressing the **GREEN** button, the press ram will move downward until it makes contact with the used filter and maximum crushing pressure is reached. It will then automatically retract until the press ram is returned to the original starting position.

BLUE BUTTON: Automatically returns or retracts the press ram to the original starting position. **NEVER** hold the **BLUE** button in when retracting the press ram.

RP-50FC PARTS BREAKDOWN



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5323404	RP-50FC PARTS BOX	1	A
2	5323383	RP-50FC BASE FRAME ASSEMBLY	1	A
3	5323396	RP-50FC ENCLOSURE WELDMENT	1	B
4	5323376	RP-50FC TOP ENCLOSURE WELDMENT	1	B
5	5323377	RP-50FC SLIDING DOOR ASSEMBLY	1	B
6	5323400	RP-50FC STOP COLLAR ASSEMBLY	1	A
7	5323398	RP-50FC STOP SWITCH MOUNTING ASSEMBLY	1	A
8	5502002	Ø5.5 x 14.8 CYLINDER ASSEMBLY	1	A
9	5323356	RP-50FC SIDE GRATE, L.H.	1	A
10	5323357	RP-50FC SIDE GRATE, R.H.	1	A
11	5323355	RP-50FC GRATE, FRONT	1	A
12	5323367	RP-50FC MOTOR COVER	1	A
13	5323365	RP-50FC MOTOR COVER CLOSEOUT	1	A
14	5323364	RP-50FC DRAIN PIPE FITTING	1	A
15	5323362	RP-50FC CRUSHER PUSH PLATE	1	A
16	5323369	RP-50FC TOP ENCLOSURE TOP	1	A
17	5323371	RP-50FC TOP ENCLOSURE REAR CLOSEOUT	1	A
18	5323386	RP-50FC SLIDING DOOR RAIL, R.H.	1	A
19	5323384	RP-50FC SLIDING DOOR RAIL, L.H.	1	A
20	5323351	RP-50FC CYLINDER LOCK RING	1	A
21	5545201	WASHER, M12 SPRING LOCK	6	-
22	5545347	WASHER, M12 FLAT WASHER	6	-
23	5530125	SHCS M12 x 1.75 x 80	6	-
24	5535012	NUT M12x1.75 NL	6	-
25	5545034	WASHER M5 x Ø15 FLAT	28	-
26	5530257	BHPS M5 x 0.8 x 16	28	-
27	5535142	NUT M5 x 0.8 NL	28	-
28	5545021	WASHER M8 x Ø20 FLAT	6	-
29	5715018	RP-50FC PLASTIC COVER BLOCK 56 x 50	2	A
30	5535001	NUT M8 x 1.25 NL	6	-
31	5530160	BHPS M8 x 1.25 x 20	6	-
32	5530774	SHCS M6x1x16mmL	2	-
33	5323405	RP-50FC DOOR SWITCH MOUNT	1	A
34	5545024	WASHER M3 x 9mm	3	-
35	5535030	NUT M3x0.5	3	-
36	5530268	PHPS M3 x 0.5 x 10	3	-
37	5545226	WASHER M5 x 9.2mm SL	2	-
38	5405101	SHCS M5 x 0.8 x 20	2	-
39	5520018	PC BOARD SNAP-IN RAIL GUIDE	2	-

DATE

01/22/2015

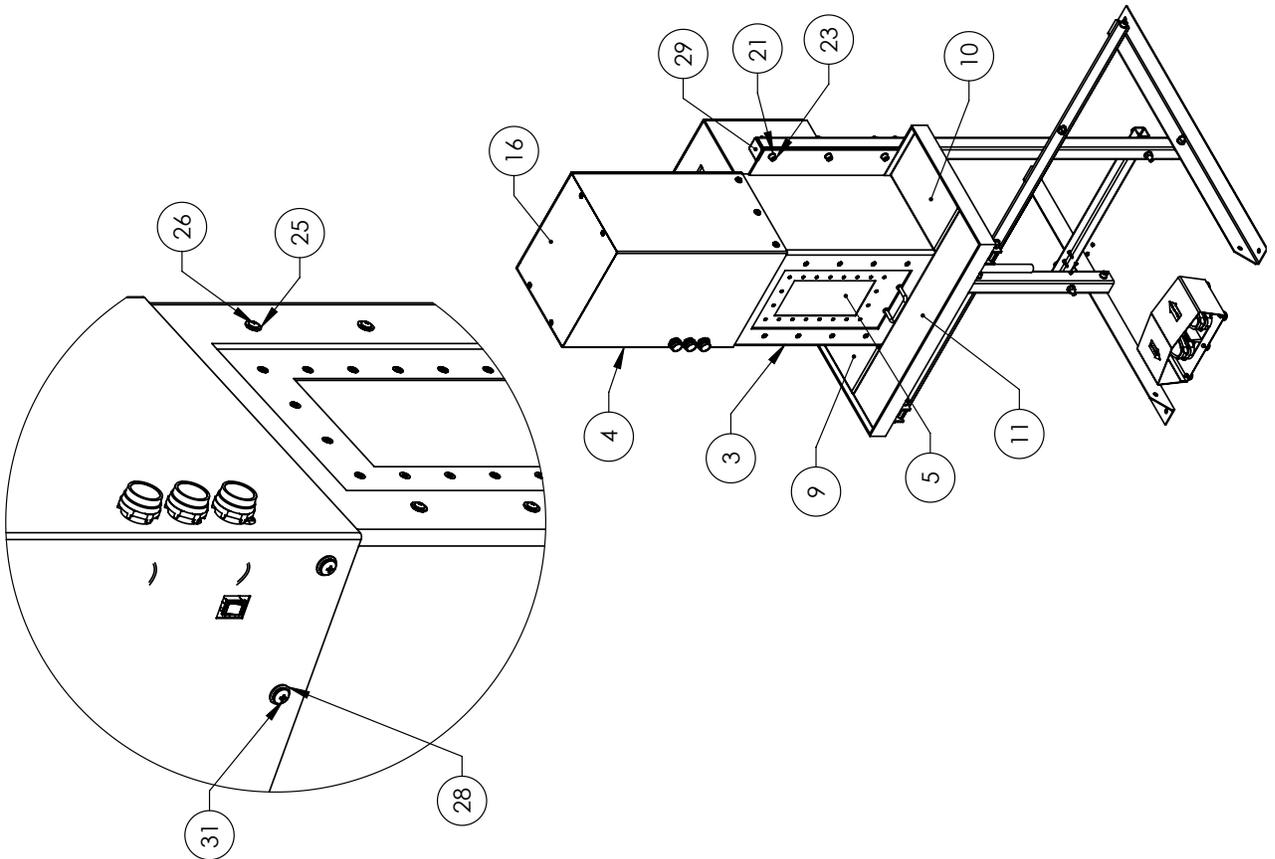
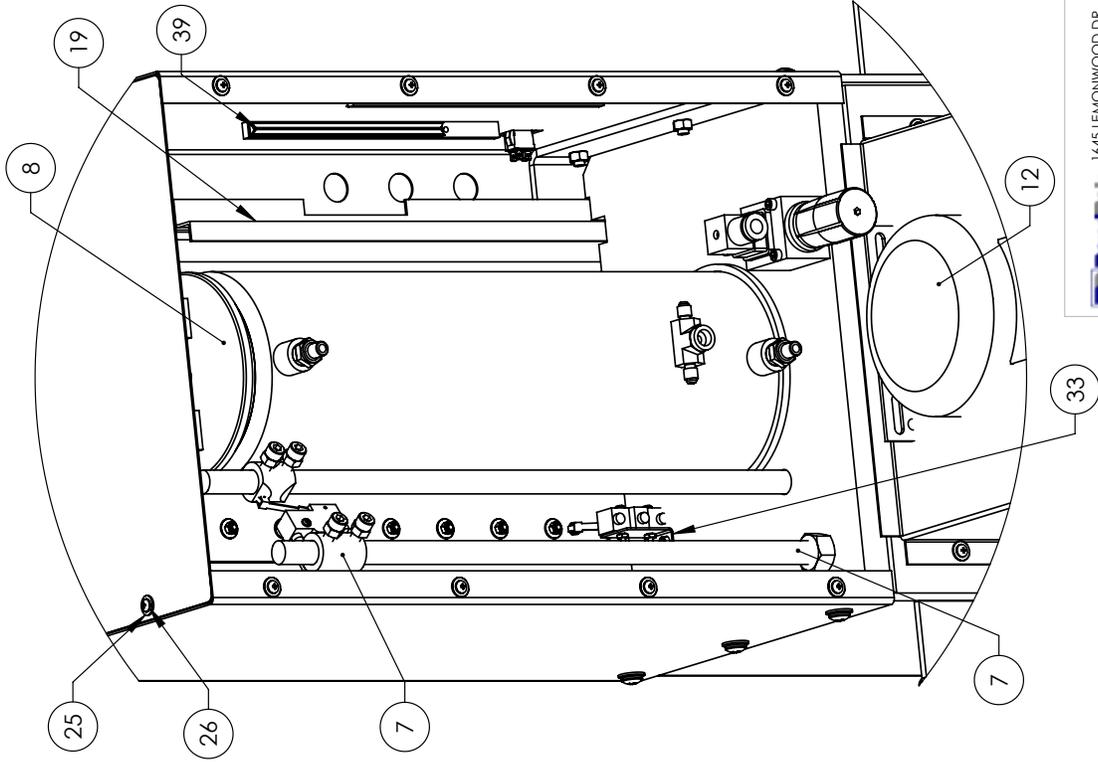


1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: RP-50FC OIL FILTER
CRUSHER ASSEMBLY

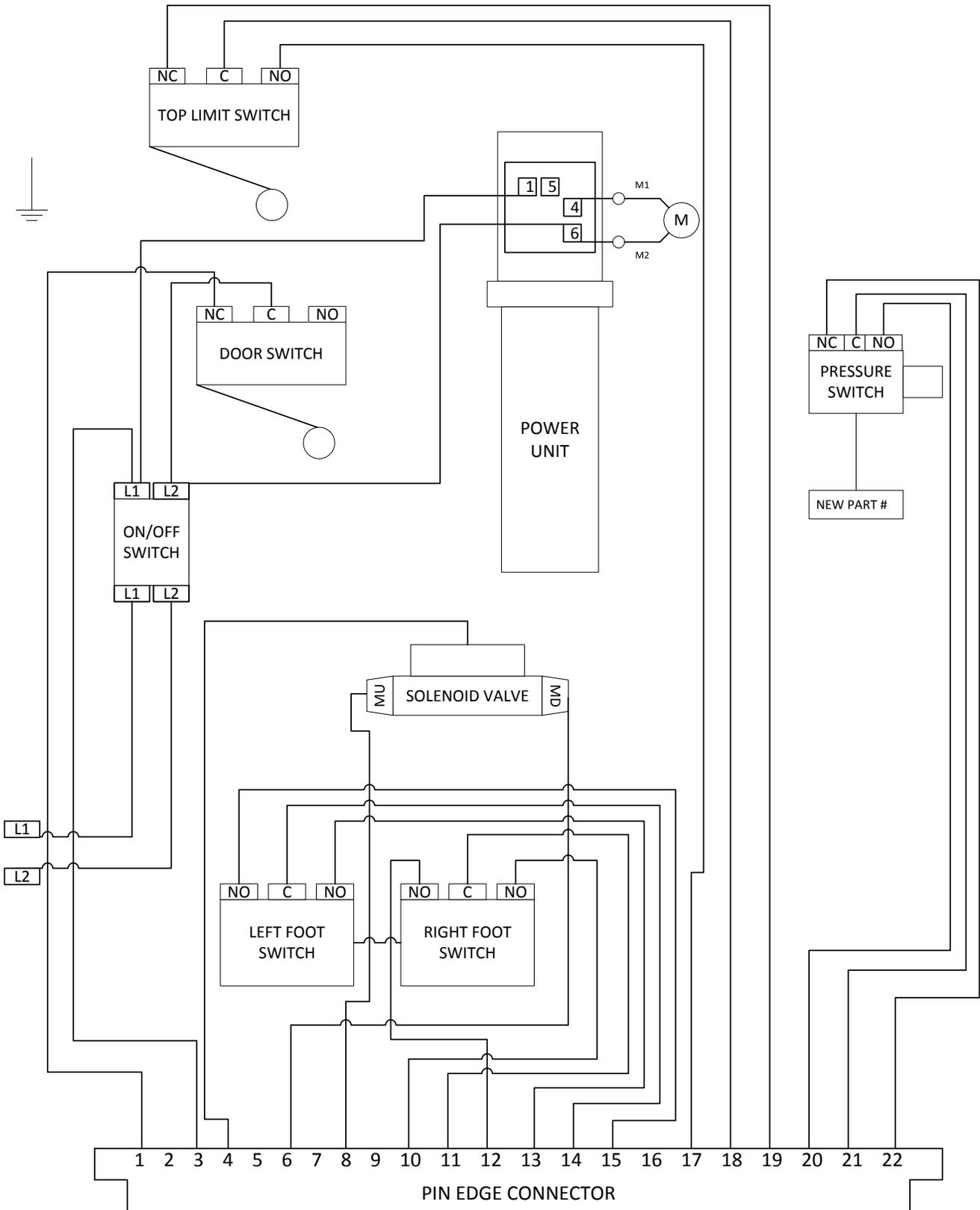
SIZE DWG. NO. **A** 5150086

REV **B**



 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: RP-50FC OIL FILTER CRUSHER ASSEMBLY	
SIZE DWG. NO.	REV
A 5150086	B

**RP-50FC
ELECTRICAL SCHEMATIC**





PRINTER FRIENDLY PAGE

Brand: Ranger
Model: RP-50FC
Description: Industrial 25-Ton Capacity High-Speed Oil Filter Crusher Complete with Stand

This super-size industrial oil filter crusher applies 25 tons of electric-hydraulic pressing power to flatten just about any used oil filter to 20% of its original size all while removing 95% of the residual oil. Filters up to 15-1/4" long and 6" diameter are crushed in approximately 8 to 15 seconds. A convenient automatic cycle feature lets you load the used oil filter in the crushing chamber, push a button, and walk away. Simply press the green button for fully automatic press cycle, the blue for initiating automatic return sequence and red for stop. It's that simple. For an added bit of ergonomic functionality, we also include a remote electric foot switch so when your hands are busy handling filters you can control basic press operations conveniently with your feet. An automatic safety door stops all operation if and when open.



Features

- Maximum crushing pressure of 50,000 pounds.
- Filters are reduced to 20% of their original size with 95% of residual oil removed.
- Automatic cycle feature lets you load the filter, push a button, and walk away.
- Fulfills EPA and other mandated environmental standards
- Save on waste disposal costs and storage space
- Handles automotive and heavy-duty filters up to 15-1/4" long and 6" diameter.
- Cycle time approximately 8 to 15 seconds depending on filter size.
- No-mess design operates clean and efficiently to lessen spill hazards.
- Ergonomic controls feature automatic or manual cycles.
- Welded steel plate construction
- Electric-hydraulic power unit features 2-HP motor.
- Automatic safety door stops operation when opened.
- Transparent door for a convenient view of the crushing process.
- Powered by a 2-HP electric-hydraulic pump with 2-gallon reservoir.
- Rugged floor stand is designed to accommodate up to 55-gallon drums for efficient fluid handling.

Specifications

- **Overall height:** 90.5" / 2299 mm
- **Overall width:** 32.5" / 826 mm
- **Overall depth:** 31.5" / 800 mm
- **Chamber opening height:** 16" / 406 mm
- **Chamber opening width:** 9.8" / 249 mm
- **Chamber opening depth:** 13" / 330 mm
- **Average cycle time:** 8 – 15 seconds
- **Power Supply:** 208-230V, 60HZ, 1Ph.
- **Unit weight:** 415 lbs. / 188 kg





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