



1645 Lemonwood Dr.
Santa Paula, CA 93060 USA
Toll Free 1 (800) 253-2363
Tel: 1 (805) 933-9970
rangerproducts.com

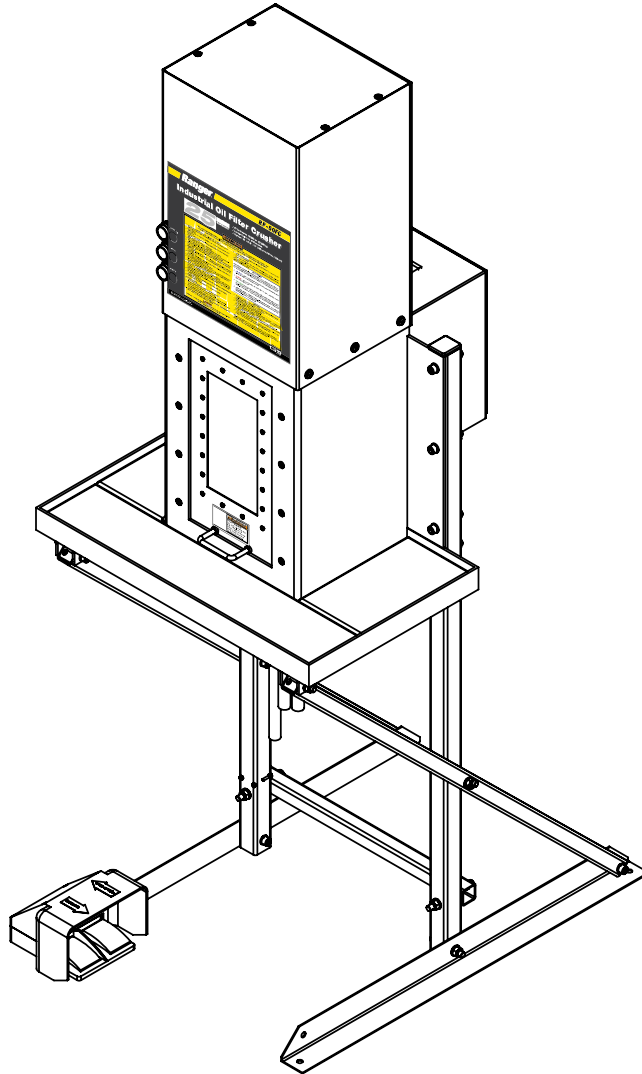
High-Speed Oil Filter Crusher

Installation and Operation Manual

Manual P/N 5900392 — Manual Revision C4 — March 2023

Model:

- RP-50FC



Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.



DANGER

IMPORTANT SAFETY INSTRUCTIONS, SAVE THESE INSTRUCTIONS! Read this manual thoroughly before installing, operating, servicing, or maintaining this equipment. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. **By proceeding with installation and operation, you agree that you fully understand the contents of this manual and assume full responsibility for product use.**

Manual. RP-50FC High-Speed Oil Filter Crusher, *Installation and Operation Manual*, Manual P/N 5900392, Manual Revision C4, Released March 2023.

Copyright. Copyright © 2023 by BendPak Inc. All rights reserved. You may make copies of this document if you agree that: you will give full attribution to BendPak Inc., you will not make changes to the content, you do not gain any rights to this content, and you will not use the copies for commercial purposes.

Trademarks. BendPak, the BendPak logo, Ranger, and the Ranger logo are registered trademarks of BendPak Inc. All other company, product, and service names are used for identification only. All trademarks and registered trademarks mentioned in this manual are the property of their respective owners.

Limitations. Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak Ranger reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak Ranger is not responsible for typographical errors in this manual.

Warranty. The BendPak Ranger warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details and to register your new BendPak Ranger product, contact your nearest BendPak Ranger dealer or visit www.bendpak.com/support/warranty.

Safety. Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on the unit.

Owner Responsibility. In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to read and follow these instructions:

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

Table of Contents


Introduction	3	Setup	8
Shipping Information	4	Operation	21
Safety Considerations	4	Maintenance	22
Specifications	6	Troubleshooting	23
Components	7	Parts Diagrams	24

Introduction

This manual describes the RP-50FC high-speed oil filter crusher from Ranger Products, which applies up to 25 tons of hydraulic pressing power to flatten just about any used oil filter to approximately 20 percent of its size while removing up to 95 percent of the residual oil.


This manual describes these models:

- **RP-50FC:** High-speed oil filter crusher that uses a 208–230 VAC, 60 Hz, single phase motor. This motor is suitable for use in the United States.

 **WARNING** BendPak Ranger requires using a **licensed electrician** to wire your motor to the power source. Wiring the motor incorrectly could result in serious injury or product damage.

More information about the full line of Ranger Products is available at rangerproducts.com.

This manual is mandatory reading for all users of the RP-50FC including anyone who sets them up, operates them, maintains them, or repairs them. You can always find the latest version of the manual on the BendPak website.

 **DANGER** Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support and service for your oil filter crusher is available directly from your distributor or by calling the **Ranger Products Hotline at 1 (805) 933-9970**. You may also contact the Hotline for consultation on parts replacement (please have the serial number and model number of your unit available).

**WARNING**

California Proposition 65. This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. **ALWAYS** use this product in accordance with BendPak's instructions. For more information go to www.P65Warnings.ca.gov.

Hydraulic System Warnings

Before applying power to the Hydraulic System note the following Warnings:

**WARNING**

Failure to observe these warnings can result in serious personal injury including, in rare cases, death.

**WARNING**

Verify all Hydraulic Hose connections and fittings, including unused auxiliary port plugs on the Power Unit, the Flow Divider, the Cylinders and anywhere else in the Hydraulic System are tightened.

**WARNING**

The Power Unit is a Hydraulic Pump capable of developing high pressures. A pressure relief valve is used to set the pressure at the desired level. Tampering with, adjusting, modifying, or removing the relief valve is extremely dangerous and is not recommended. Only trained Hydraulics technicians should make adjustments to the relief valve, using calibrated hydraulic pressure gauges to assure the proper pressure setting is achieved.

**WARNING**

Changes to the output pressure may render the power unit incompatible with pressure limitations of other components in the hydraulic circuit. This may cause catastrophic failure of those components, and could result in property damage, serious personal injury, or death.

**WARNING**

The Hydraulic System can contain high pressure which, if suddenly released, can cause serious injury or death.

**WARNING**

Do **not** attempt to connect or disconnect Hydraulic Hoses while the equipment is loaded, or the Hydraulic System is under pressure.

**WARNING**

Keep bare hands away from Hydraulic Fluid; always wear gloves when handling Hydraulic Fluid, Cylinders or Hydraulic Hoses.

**WARNING**

When handling Hydraulic Fluid, always observe the safety instructions from the manufacturer.

**WARNING**

Always promptly clean any Hydraulic Fluid spills. If a leak is the source of the spill, do not use until the Hydraulic System is repaired.

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. **Do not sign the bill of lading until after you have inspected the shipment.** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this manual carefully before using your new product. Do not set up or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are also familiar with all operating instructions and warnings.

Safety Information

Please note the following:

- The product is a high-speed oil filter crusher. **Use it only for its intended purpose.**
- The product should only be operated by authorized personnel. Keep children and untrained personnel away from the product.
- Do not crush aerosol cans, compressed gas, fuel filters, or flammable liquids or solvents.
- Do not open the door while the unit is operating; always wait for the end of the cycle.
- Do not stack filters or cans inside the crushing chamber.
- When using the product, wear appropriate work clothes, ANSI-approved safety goggles, and industrial gloves. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- Prior to using the press, make sure all debris and tools are removed from inside the Press area.
- Keep the work area clean and well-lighted. Cluttered benches and dark areas increase the risks of injury to persons.
- Clean up any spilled oil immediately so it will not cause a slipping hazard.
- When the product is in use, keep all body parts away from it.
- To prevent the Power Unit components from overheating, we recommend taking 2-3 minute breaks after every half hour of use. The Power Unit's Motor is **not** constant duty; it cannot be run continuously.
- Do not use the product while tired or under the influence of drugs, alcohol, or medication.

-
- Do not use the product in the presence of cigarette smoke, dust, or flammable liquids or gases; the Press can create sparks resulting in the ignition of the dust or fumes. Use the product indoors in a well-ventilated area.
 - Do not make any modifications to the product.
 - Never defeat or remove any safety features.
 - Secure the unit to a dry, clean, flat concrete surface; do not install it on asphalt or wood.
 - Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
 - Avoid using an extension cord; they can overheat. If you must use an extension cord, make sure it is of an appropriate wire gauge for the voltage, current a distance covered.
 - Make a visual inspection of the product before using it. Do not use the product if you find any missing or damaged parts. Instead, contact an authorized repair facility, your distributor, or the Ranger Products Hotline at 1 (805) 933-9970.
 - BendPak Ranger recommends making a **thorough** inspection of the product at least once a year. Replace any damaged or severely worn parts, decals, or warning labels.

Symbols

Following are the symbols used in this manual:



DANGER Calls attention to a hazard that **will** result in death or injury.



WARNING Calls attention to a hazard or unsafe practice that **could** result in death or injury.



CAUTION Calls attention to a hazard or unsafe practice that could result in personal injury, product damage, or property damage.



Tip Calls attention to information that can help you use your unit better.

Liability Information

BendPak Ranger assumes **no** liability for damages resulting from:

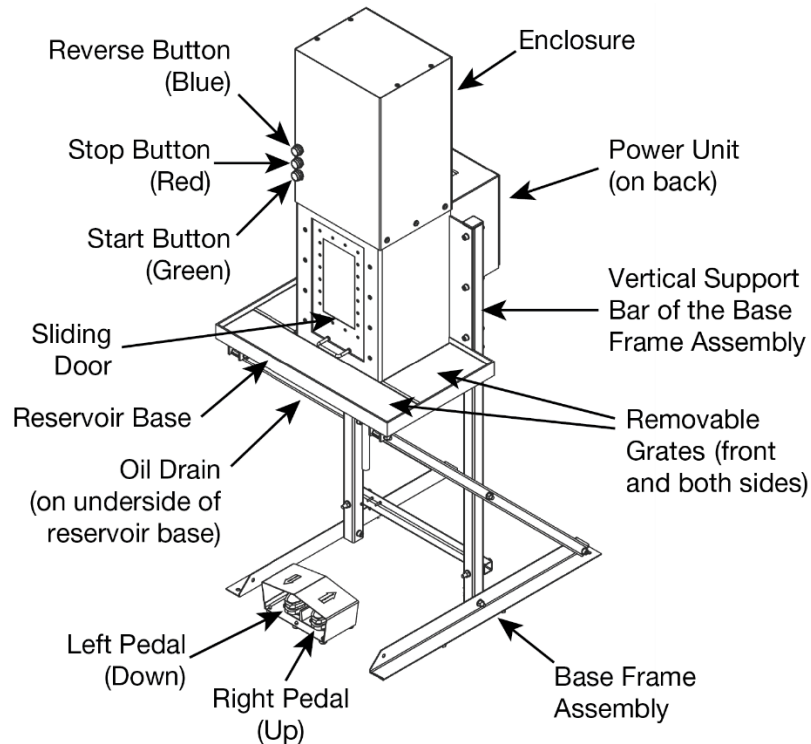
- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Ranger.
- Injury or death caused by modifying, disabling, or removing safety features.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Specifications

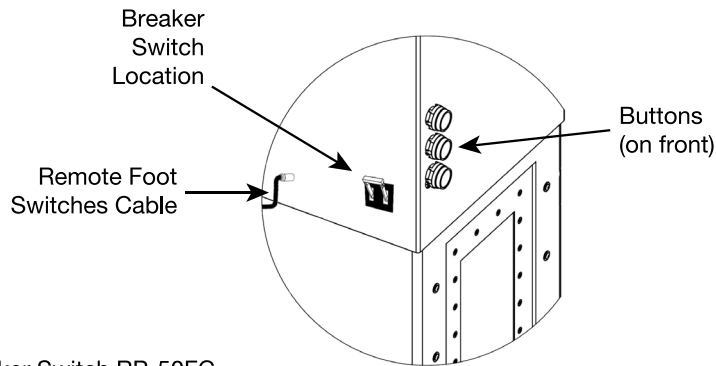
Height	88.5" (7.3 feet) / 2,248 mm
Width	32.5" (2.7 feet) / 825.5 mm
Depth	31.5" (2.6 feet) / 800 mm
Chamber height	17.5" / 444.5 mm
Chamber width	9.75" / 247.6 mm
Chamber depth	11.75" / 298.4 mm
Average cycle time	8 to 15 seconds
Weight	415 lbs. / 188 kg
Power unit	208–230 VAC, 60 Hz, 1 Ph

Components

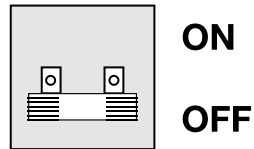
The following figure shows the major components of the unit.



There are also components on the left side of the enclosure.



Breaker Switch RP-50FC
(shown down/off)



Setup

This section describes how to get your oil filter crusher up and running.

⚠ CAUTION Most of the setup procedure is the same for both models, with the exception being the wiring of the power unit. There are separate wiring procedures for each model; make sure to pick the correct procedure for the model you are setting up.

Tools and Supplies

You need to provide the following:

- Wrenches and screwdrivers appropriate for assembling the unit.
- A drill and concrete drill bit to mount the unit to the floor, if desired.
- A plug to connect to the power unit's electrical cord.

Unpacking

Use caution when unpacking the components from their shipping containers. You do not want to damage or misplace anything.



Tip Consider unpacking the components in the area where you are going to assemble the unit.

Screws

Assembling the unit requires the use of several different types of screws:

- Socket head cap screws (14), M12 by 1.75 by 80, **referred to as Screw A**
- Socket head cap screw (4), M12 by 1.75 by 120, **referred to as Screw B**
- HHB MM 8 by 35 (4), **referred to as Screw C**

Assembly

Your oil filter crusher comes disassembled (to protect the components during shipping). Once the components are unloaded, they are your responsibility to move around. As the unit includes a number of heavy pieces, the closer you unload them to the installation location, the better off you are.

The assembly process happens in multiple phases. Perform them in the order shown.

⚠ CAUTION Some of the Oil Filter Crusher components are heavy; improper handling can result in product damage, property damage, or personal injury. Use extreme care when moving the components.

Assembling the Stand:

1. Connect the left and right base frame support bars to the reservoir base. Use Screw A with washer and nut. Do not tighten nuts at this time.



2. Bolt the base frame vertical support bars to the reservoir base. Use Screw A with washer and nut. Do not tighten nuts at this time.



-
3. Bolt the base frame support bars to the vertical support bars. Use Screw B with washer and nut. Do not tighten nuts at this time.



4. Bolt the base frame legs to the vertical support bars. Use Screw A with washer and nut. Do not tighten nuts at this time.



-
5. Stand up the base frame assembly and the reservoir base. **Tighten all nuts.**



The Stand Assembly and Reservoir Base are now assembled.

Mounting the Enclosure to the Stand:

1. Remove the top of the enclosure, exposing the eye hitch.
2. Use the eye hitch to lift the enclosure onto the reservoir base.



Eye Hitch

Top of
Enclosure

3. Bolt the enclosure onto the base frame and reservoir.



-
4. Bolt the enclosure to the vertical support bars on both sides. Use Screw A with one flat washer, two ridged washers, and one nut.



The enclosure is now mounted to the base frame.

Connecting the equipment:

1. Remove the rear panel of the enclosure.

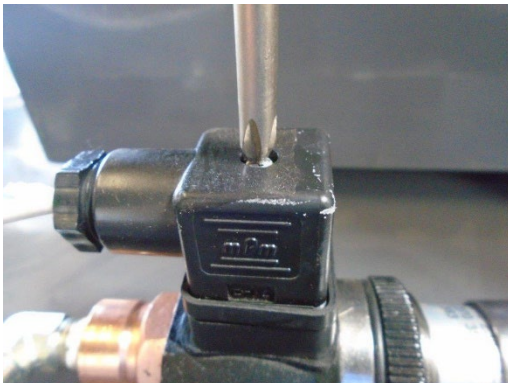
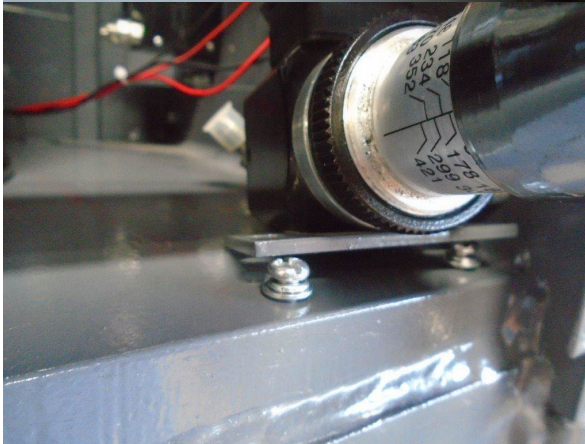


2. Connect the cylinder hose to the pressure switch. Tighten the hose to the cylinder at the top.



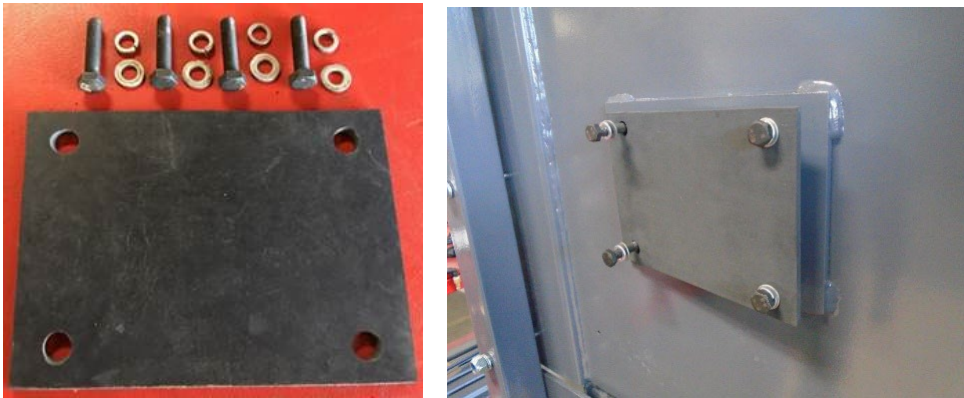
Tip To make it easier to connect the cylinder hose, remove the top connector on the pressure switch; this allows it to be move around more freely.

3. Screw down the pressure switch.



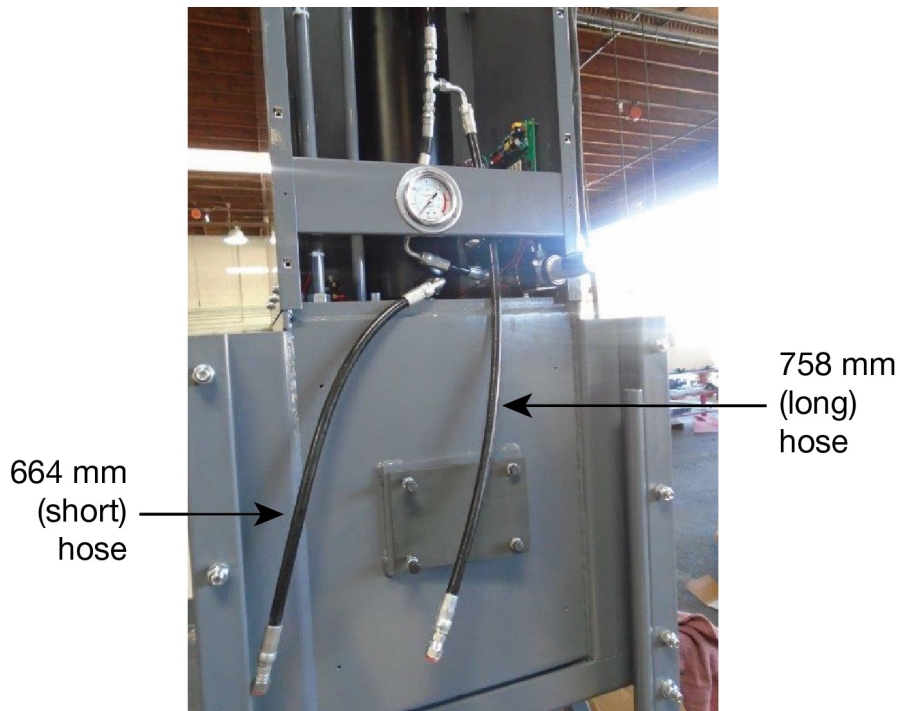
4. Connect the **anti-vibration pad and the motor at the same time** to the back of the enclosure.

Use Screw C and two washers per screw to attach the anti-vibration pad.

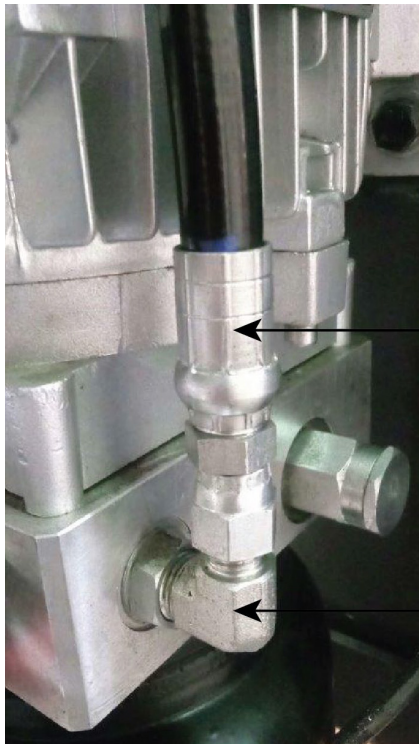


5. Attach the hydraulic fitting to the left and right sides of the motor.

6. Attach the 664 mm hose (on the left below) to the hydraulic fitting on the left side of the motor.



7. Attach the long 758 mm hose (on the right) to the hydraulic fitting on the right side of the motor.



Long (758 mm) hose

Attach short (644 mm) hose to hydraulic fitting on left side of motor

Hydraulic fitting

Right side of motor

8. Add hydraulic oil to the motor. The tank holds up to 3.1 gallons (12 liters).

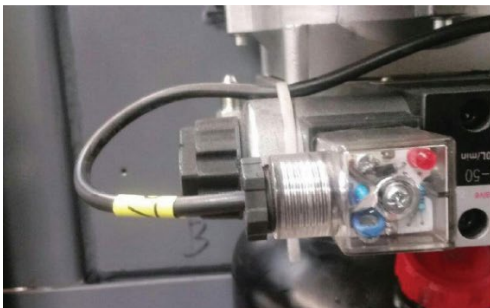
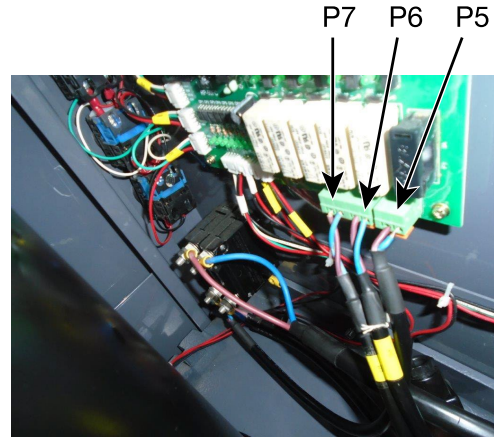
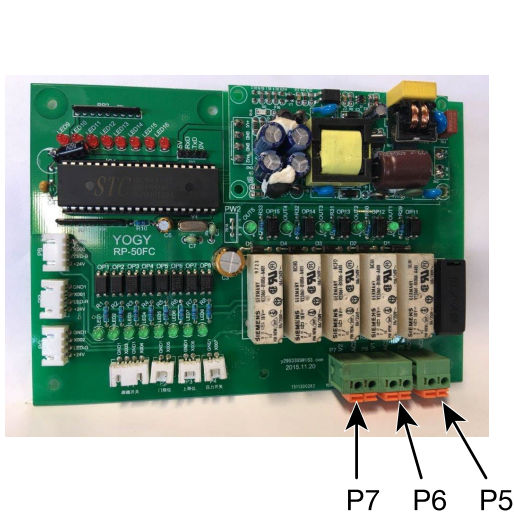
Approved fluids are any general purpose ISO-32, ISO-46, or ISO-68 hydraulic oil or approved ATF fluids such as Dexron III, Dexron VI, Mercon V, Mercon LV, or any Synthetic Multi-Vehicle ATF.



Wiring the RP-50FC to 220 VAC, 60 Hz, single phase:

⚠ DANGER All electrical work **must be accomplished by a licensed Electrician** in accordance with all applicable national and local electrical codes. Damage caused by improper electrical installation will void your warranty.

1. Wires labeled P6 and P7 connect to the control board and to terminals on the motor.



Left Side of Power Unit

Connect one end of P7 to the Control Board, the other end to the Solenoid on the left side of the Power Unit.

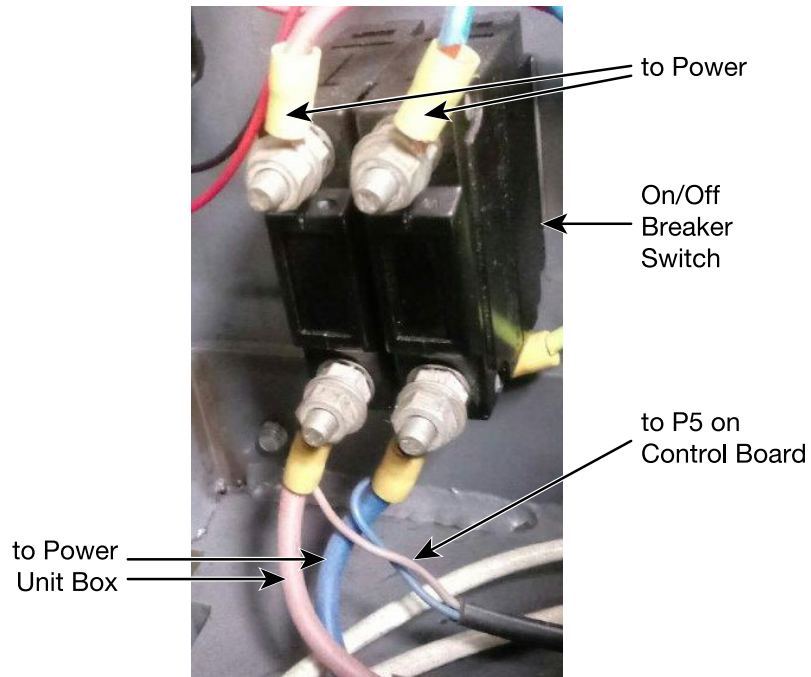


Right Side of Power Unit

Connect one end of P6 to the Control Board, the other end to the Solenoid on the right side of the Power Unit.

3. The P5 wire attaches differently than P6 and P7.

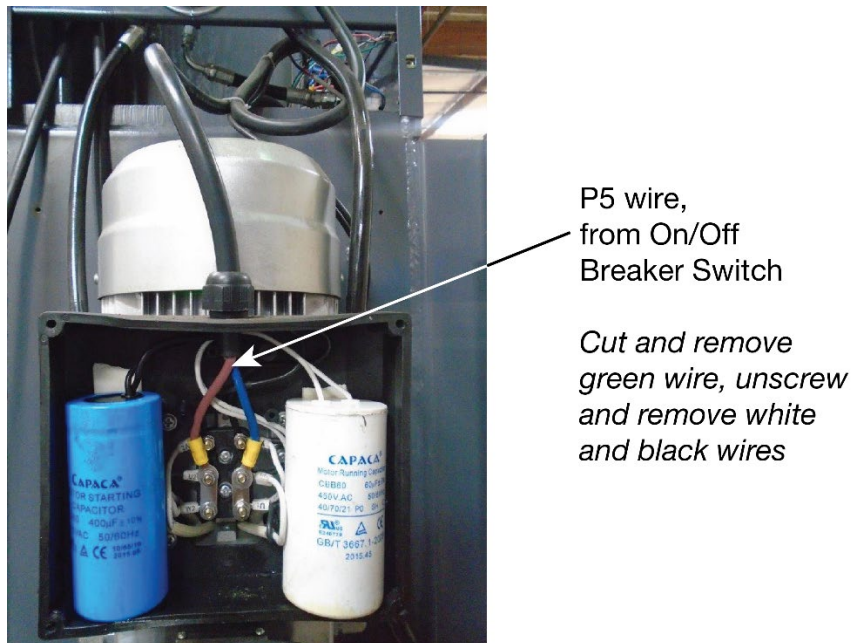
Connect P5 first to the **bottom** of the On/Off Breaker Switch.



The smaller two wires connect to P5 on the Control Board.

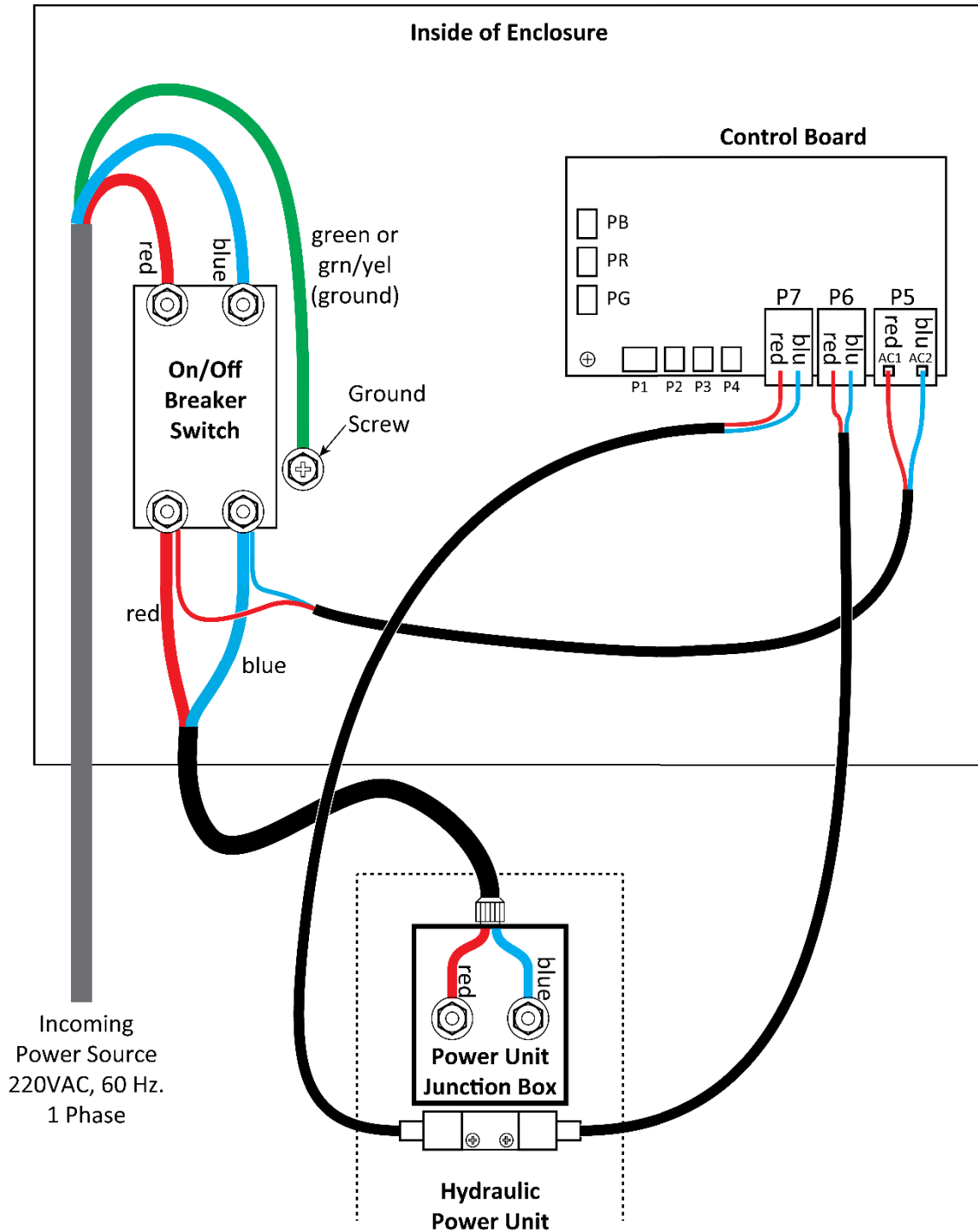
4. Connect the longer, bigger red and blue wires to the Power Unit Box on the Power Unit.

Note: You have to remove the screws on the Power Unit Box to connect the P5 wire.



Power Unit Box
(cover removed)

The figure below details the wiring connections for the **RP-50FC**.



*Not to scale. Many components **not** shown, for clarity. Multiple views combined into a single view.*

5. Connect one end of the power cord to **the top of the On/Off Breaker Switch**, including the ground wire.

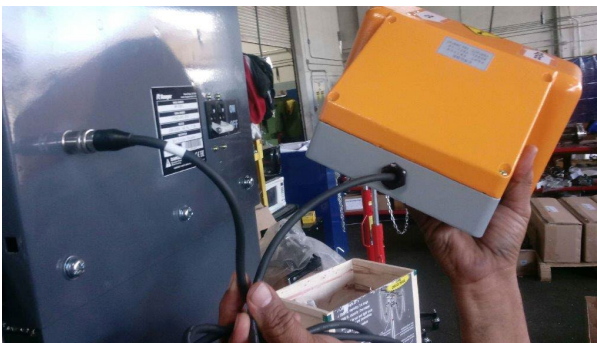
-
- Slide the other end of the power cord through the top of the tube on the vertical support bar (part of the frame) all the way through to the bottom, then connect it to an appropriate plug.



- Attach the plug on the end of the power unit cord to an appropriate power source.



- Connect the foot pedal to the remote foot switches cable on the left side of the unit.



- Install the left, right, and center grates into the reservoir base.


The unit is now ready for operation.

Operation

The correct way to press any of the three control buttons is to press firmly and then release. Pressing *and holding* the control buttons can cause damage to the unit.


There are three control buttons on the oil filter crusher:

- **Reverse button, blue.** Returns the press ram to its original starting position.
- **Stop button, red.** Stops all movement of the press ram if it is in use. ***The red button is your emergency stop.***
- **Start button, green.** Activates the automatic pressing cycle. When an automatic pressing cycle is started, the press ram moves down, contacting the item you are crushing. When it reaches maximum crushing depth, the press ram automatically stops and returns to the starting position.


 **WARNING** Avoid off-center loads. If the press ram seems to be laboring more than usual or the filter/can is unusually hard to press, stop operation. Do not operate the press ram if the filter/can tilts or binds during the downward movement of the press head.

To operate your oil filter crusher:

1. Place an approved waste oil container under the oil drain (which is on the underside of the reservoir base).
2. Lift the sliding door firmly and place an empty filter or paint can in the center of the chamber, *open end down*.

 **WARNING** Crush Hazard! Hold the sliding door open when placing filters in, or retrieving filters from, the chamber. Do not operate the crusher with the door open. Do not stack filters or cans inside the crushing chamber.

3. Close the sliding door.


 **CAUTION** You cannot crush an item until the sliding door is fully closed.


4. Press and release the green button; an automatic cycle begins.

When the automatic cycle starts, step back from the unit.


The press ram will move downwards, crush the item, return to the original starting position, and then shut off.

5. To remove the crushed filter, open the sliding door and pull out the crushed item.

 **CAUTION** Do not get distracted when removing a crushed filter. Use industrial gloves to prevent from scratching, cutting, or puncturing your skin on the sharp edges of the crushed filter. Watch for leaking oil.

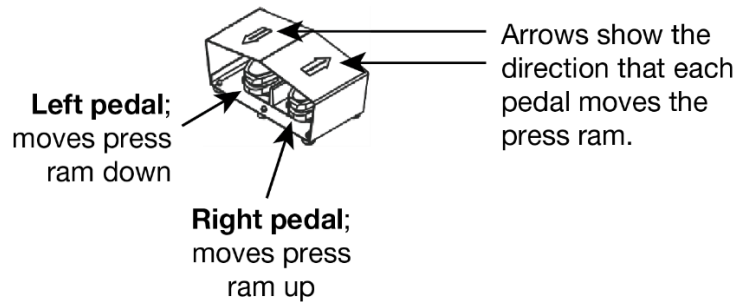
 **WARNING** Do not attempt to remove a stuck filter or paint can until you stop the automatic pressing cycle using the red Stop button.

6. Put the breaker switch (on the left side of the unit) to the off position when the unit is not in use.

 **CAUTION** To prevent the Power Unit components from overheating, we recommend taking 2-3 minute breaks after every half hour of use. The Power Unit's Motor is ***not*** constant duty; it cannot be run continuously.

Using the Foot Pedals

The foot pedals operate differently than the control buttons.



To manually operate the oil filter crusher using the foot pedals:

1. Make sure the remote foot pedals cable is connected on the left side of the enclosure (see **Components** for more information).
2. Press and hold the left pedal to move the press ram downwards.
If you stop pressing the left pedal, the press ram stops moving. You must hold it down to continue the press ram moving downwards.
3. Press and hold the right pedal to move the press ram up towards the starting position.
If you stop pressing the right pedal, the press ram stops moving.



Tip

Either foot pedal can also serve as an emergency stop: press on a pedal and then stop pressing; the press ram stops moving.

Maintenance

⚠ WARNING: Set the breaker switch to off and unplug the unit from its power source **before performing any maintenance!**


To maintain your oil filter crusher:

- If you need work done on your power unit, **you must use a qualified electrician.**
- Make sure to keep the press clean and free of debris and dirt. These can cause failure in the hydraulic system.
- All exposed machine surfaces of the press should be brushed clean and wiped with a lubricant, such as WD-40® for example, on a regular basis.
- Regularly clean the press chamber to remove any accumulated sludge, metal particles, or other debris that could affect operation.
- Keep the breather hole and oil drain (on underside of reservoir base) free of accumulation of debris; remove any materials that may be clogging the drain.
- Inspect for leaks and drain the approved waste oil container in accordance with all local, state, and federal regulations.
- Lubricate the sliding door on a regular basis to prevent the door from binding.
- Keep the red Stop button clean and in working order.

- Change or replace the hydraulic oil with SAE-10W or 20W non-foaming hydraulic oil every 5000 cycles (or about once each year), depending on 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 the 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.

Troubleshooting

This section describes how to troubleshoot your Oil Filter Crusher. All repair work must be done by qualified personnel.

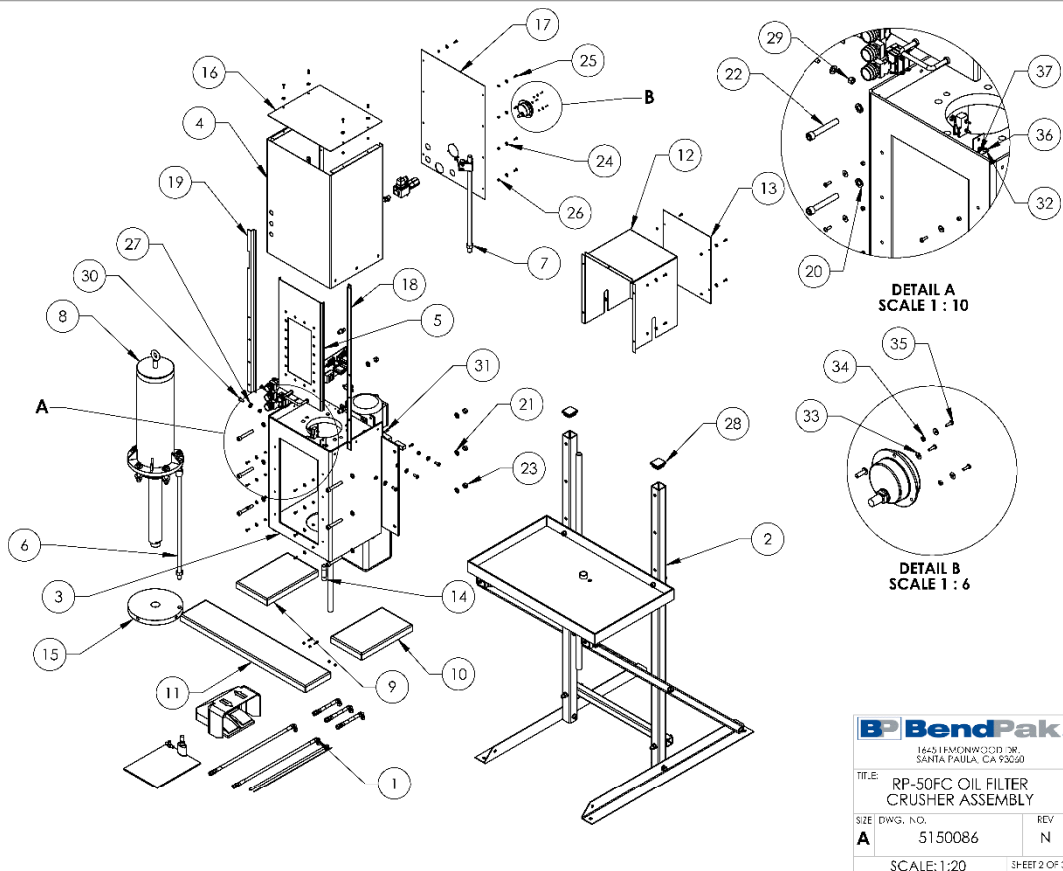
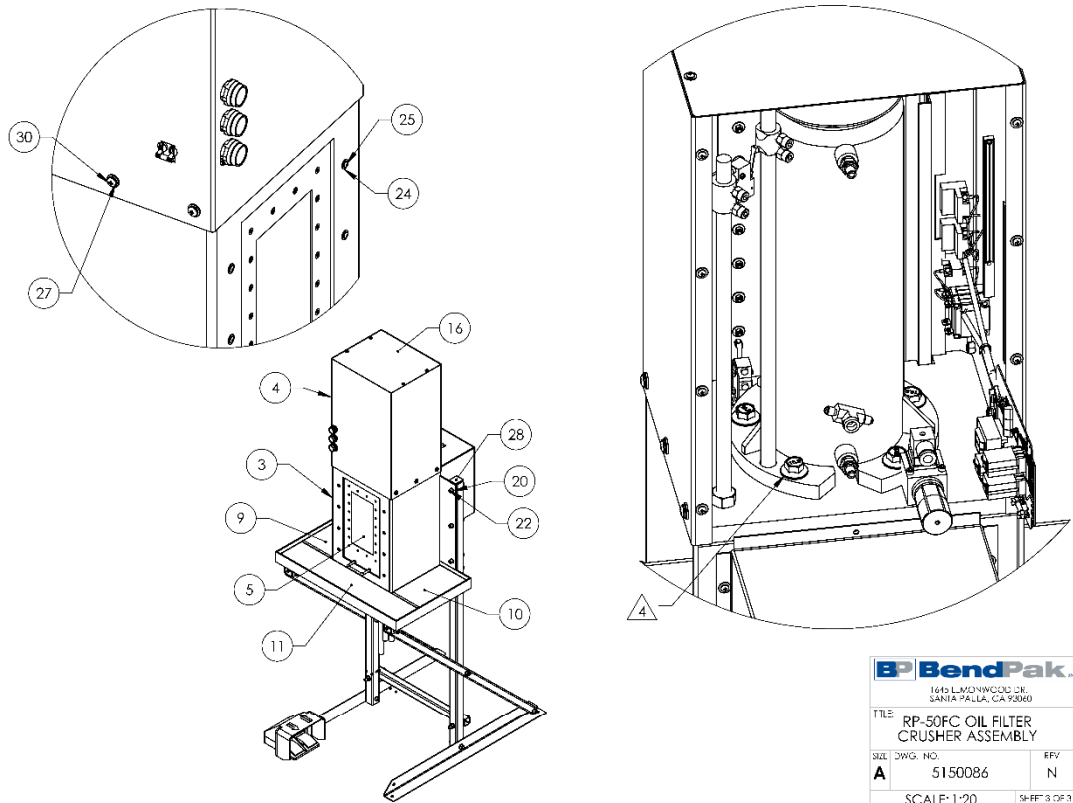
 **WARNING** *Only use factory-supplied parts as replacement parts.* If you use parts from a different source, you void your warranty and compromise the safety of everyone who uses this unit.

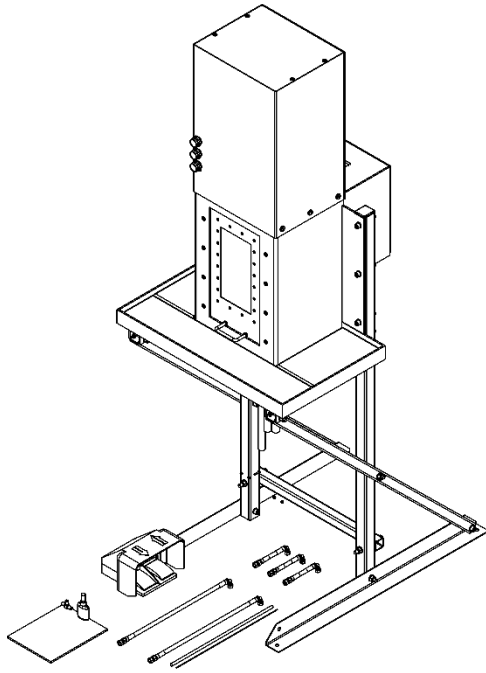
Note: If your Oil Filter Crusher is not functioning correctly, you **must** stop using it until it is fixed.

Issue	Action to Take
Press ram does not move when buttons or foot pedals are pressed.	<ol style="list-style-type: none"> 1. Check the connections to the power source. 2. Check the Hydraulic Fluid levels. 3. Make sure all equipment connections and wiring are set up correctly. 4. Verify the sliding door is fully closed. If the sliding door is not fully closed, the safety switch does not activate, which prevents the ram from working. 5. Verify the breaker on the left side of the unit (when looking at it from the front) is set to on. Note that the breakers for the two oil filter crusher models work slightly differently.
Ram moves sluggishly.	<ol style="list-style-type: none"> 1. Check to see if air is trapped in the hydraulic system. 2. If there is air, <i>carefully</i> loosen, but do not remove, the hose fittings at the ram and run the pump until you see a steady flow of oil that is free of air bubbles escaping from the loosened fittings. Retighten the hose fittings.
Cycle stops before completing.	<ol style="list-style-type: none"> 1. Press the red Stop button to end the cycle. 2. Check to see if the item being crushed is stuck; if so, remove the item and start again. 3. Check to see if the item being crushed is off center. If so, center the load and start again.
The green Start button works, but the right Down pedal does not.	Verify the foot pedals are connected to the remote foot switches cable on the left side of the unit.

If you continue to have an issue, visit [bendpak.com/support](https://www.bendpak.com/support) or contact BendPak Technical Support, call (888) 856-5820, or email support@bendpak.com.

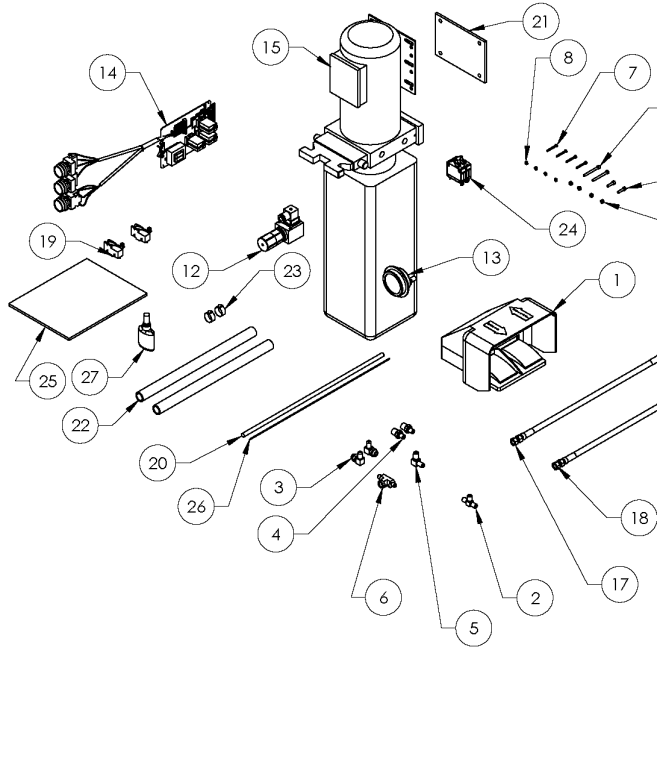
Parts Diagrams





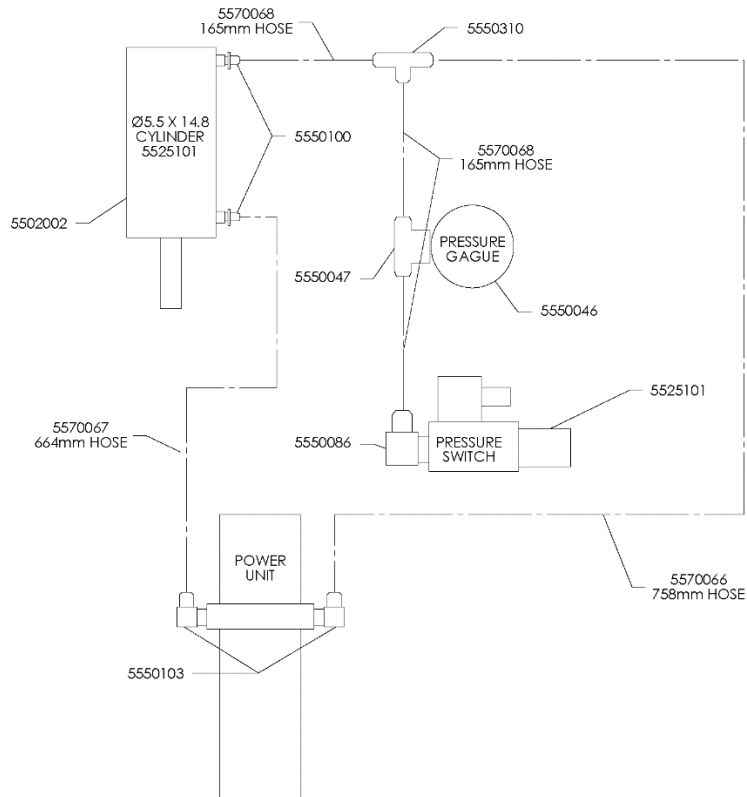
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REV
1	5323404	RP-50FC PARTS BOX	1	F
2	5323363	FILTER CRUSHER BASE FRAME ASSEMBLY	1	B
3	5323392	FILTER CRUSHER ENCLOSURE WELDMENT	1	D
4	5323374	FILTER CRUSHER TOP ENCLOSURE WELDMENT	1	C
5	5323377	FILTER CRUSHER SLIDING DOOR ASSEMBLY	1	C
6	5323400	FILTER CRUSHER STOP COLLAR ASSEMBLY	1	C
7	5323398	FILTER CRUSHER STOP SWITCH MOUNTING ASSEMBLY	1	C
8	5302040	CYLINDER ASSEMBLY 0.5 x 1.4 B	1	C
9	5323356	FILTER CRUSHER SIDE GRATE, L.H.	1	B
10	5323357	FILTER CRUSHER SIDE GRATE, R.H.	1	B
11	5323355	FILTER CRUSHER GRATE, FRONT	1	B
12	5323367	FILTER CRUSHER MOTOR COVER	1	B
13	5323365	FILTER CRUSHER MOTOR COVER CLOSEOUT	1	B
14	5323364	FILTER CRUSHER DRAIN PIPE FITTING	1	B
15	5323362	RP-50FC CRUSHER PUSH PLATE	1	A
16	5323369	FILTER CRUSHER TOP ENCLOSURE TOP	1	B
17	5323371	FILTER CRUSHER TOP ENCLOSURE REAR CLOSEOUT	1	B
18	5323364	FILTER CRUSHER SLIDING DOOR RAIL, R.H.	1	B
19	5323364	FILTER CRUSHER SLIDING DOOR RAIL, L.H.	1	B
20	5345201	WASHER, M12 SPRING LOCK	6	--
21	5345447	WASHER, M12 FLAT WASHER	6	--
22	5330126	SHCS M12 x 1.75 x 80	6	--
23	5330172	NUT M12 x 1.75 NL	6	--
24	5345034	WASHER M5 x 0.8 FLAT	28	--
25	5330257	BHPS M5 x 0.8 x 14	28	--
26	533142	NUT M5 x 0.8 NL	28	--
27	5345341	WASHER M10 x 0.20 FLAT	6	--
28	5715018	FILTER CRUSHER POLYETHYLENE COVER BLOCK 56 x 50	2	B
29	5330001	NUT M8 x 1.25 NL	6	--
30	5330160	BHPS M8 x 1.25 x 20	6	--
31	5330774	SHCS M6x1.6mm	2	--
32	5323405	FILTER CRUSHER DOOR SWITCH MOUNT	1	--
33	5345024	WASHER, M3 x 9mm FLAT	3	--
34	5330030	NUT M3 x 0.5	3	--
35	5330268	PHPS M3 x 0.5 x 10	3	--
36	5345022	WASHER M5 x 0.8mm SL	2	--
37	5405101	SHCS M5 x 0.8 x 20mm	2	--
38	5320018	PC BOARD SNAP-IN RAIL GUIDE	2	--

DRAWN: TM 0/22/2015
 CHECKED: DR 12/01/2021
 THIRD ANGLE PROJECTION
 TITLE: RP-50FC OIL FILTER CRUSHER ASSEMBLY
 SIZE: DWG. NO. 5150086 REV N
 SCALE: 1:15 SHEET 3 OF 3



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	REV
1	5215849	FILTER CRUSHER FOOT PEDAL ASSEMBLY, 380V 10A	1	A
2	5550310	FTG IEE -04 JIC -04 JIC -04 JIC	1	--
3	5550103	FTG ELB -04 JIC -06 ORB	2	--
4	5550100	FTG NPL -04 JIC x -06 NPT	2	--
5	5550086	FTG ELB -04 NPT x -04 JIC	1	--
6	5330047	FTG IEE -04 JIC -04 JIC -04 F NPT	1	--
7	5330115	BHS 6-32 x 1.25	4	--
8	533190	HN 6-32	4	--
9	5330224	SHCS M5 x 0.8 x 50	2	--
10	533142	NUT M5 x 0.8 NL	4	--
11	5405101	SHCS M5 x 0.8 x 20	2	--
12	5325101	HYDRAULIC PRESSURE SWITCH 03-275	1	--
13	5330046	1/4" NPT 7500 PSI GAUGE	1	--
14	5320145	3 BUTTON BOARD	1	--
15	5385458	HYDRAULIC POWER UNIT, 230V, 4HP, 60HZ, 1ph, S1 DUTY	1	--
16	5570068	HOSE ASSY Ø6.35 x 1.65mm SB	3	A
17	5570067	HOSE ASSY Ø6.35 x 664mm SB	1	A
18	5570066	HOSE ASSY Ø6.35 x 758mm SB	1	A
19	5327169	MICRO SWITCH Z-15GW255B	2	--
20	5320128	10-3 SO CABLE 300vac	1	--
21	5715361	FILTER CRUSHER SERIES RUBBER PAD	1	B
22	5323379	Ø19mm ID x Ø26mm OD x 406mm PVC BRAIDED HOSE	2	A
23	5401716	HOSE CLAMP	2	--
24	5320660	2 POLE, 50HZ, 400V, 20A BREAKER, DIN 35mm	1	--
25	5900392	RP-50FC / RP-50FC-E INSTALLATION MANUAL	1	--
26	5320066	WIRE, AWG 14-3, SJOOW	1	--
27	5380012	LIQUID PTFE THREAD SEALANT 4 .oz	1	--

DRAWN: TM 02/20/2015
 CHECKED: DR
 THIRD ANGLE PROJECTION
 TITLE: RP-50FC PARTS BOX
 SIZE: DWG. NO. 5323404 REV F
 SCALE: 1:12 SHEET 1 OF 2

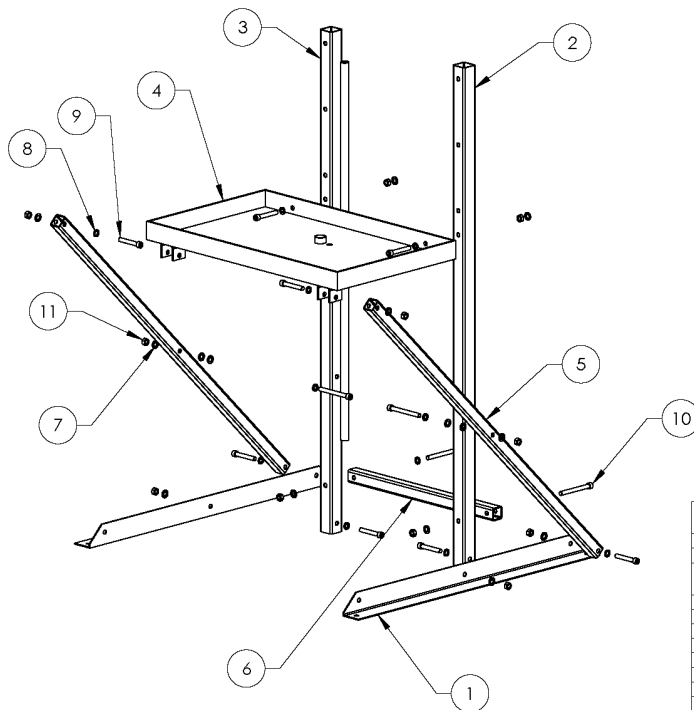


BendPak.
 1645 LEMONWOOD DR.
 SANTA PAULA, CA 93060

TITLE: RP-50FC PARTS BOX

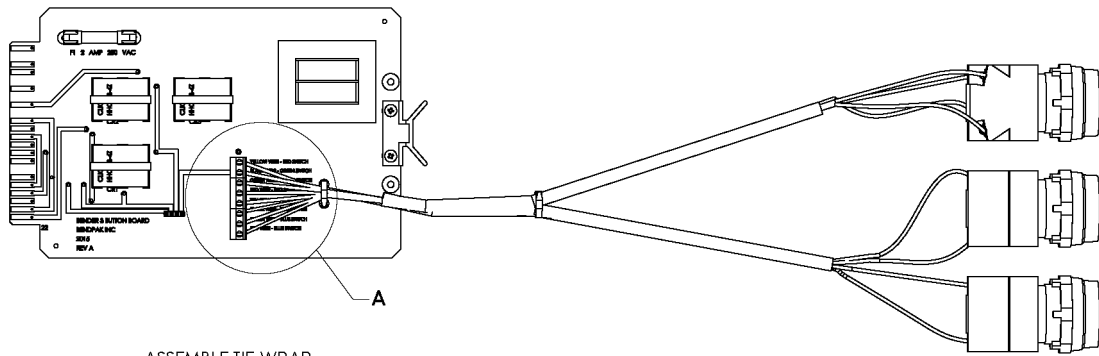
SIZE DWG. NO. REV
 A 5323404 F

SCALE: 1:10 SHEET 2 OF 2

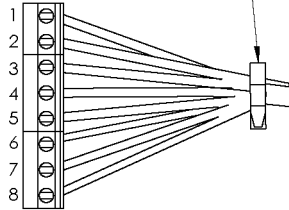


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5323382	FILTER CRUSHER BASE FRAME LEG	2	B
2	5323389	FILTER CRUSHER BASE FRAME VERTICAL SUPPORT	1	B
3	5323392	FILTER CRUSHER BASE FRAME VERTICAL SUPPORT WELDMENT	1	B
4	5323393	FILTER CRUSHER RESERVOIR BASE WELDMENT	1	B
5	5323378	FILTER CRUSHER BASE FRAME SUPPORT BAR	2	B
6	5323380	FILTER CRUSHER BASE FRAME CROSS BAR	1	B
7	5545347	WASHER, M12 FLAT WASHER	16	-
8	5545201	WASHER, M12 SPRING LOCK	12	-
9	5530125	SHCS M12 x 1.75 x 80	8	-
10	5530145	SHCS M12 x 1.75 x 120	4	-
11	5535012	NUT M12x1.75 NL	12	-

DO NOT SCALE DRAWING			BendPak. 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
DRAWN	TM	DATE	TITLE: FILTER CRUSHER BASE FRAME ASSEMBLY	
CHECKED	CA	1/14/2019	SIZE	DWG. NO. REV
DIMENSIONS ARE IN MM			A	5323383 B
THIRD ANGLE PROJECTION			SCALE: 1:15 SHEET 1 OF 1	
<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>				



ASSEMBLE TIE WRAP THROUGH HOLES IN PCB



CONNECTIONS

PIN	WIRE
1	YELLOW WIRE FROM RED SWITCH
2	BLACK WIRE FROM GREEN SWITCH
3	GREEN WIRE FROM GREEN SWITCH
4	RED WIRE FROM RED SWITCH
5	YELLOW WIRE FROM BLUE SWITCH
6	BLACK WIRE FROM BLUE SWITCH
7	GREEN WIRE FROM BLUE SWITCH
8	RED WIRE FROM BLUE SWITCH

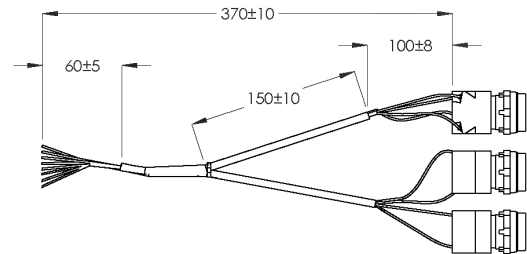
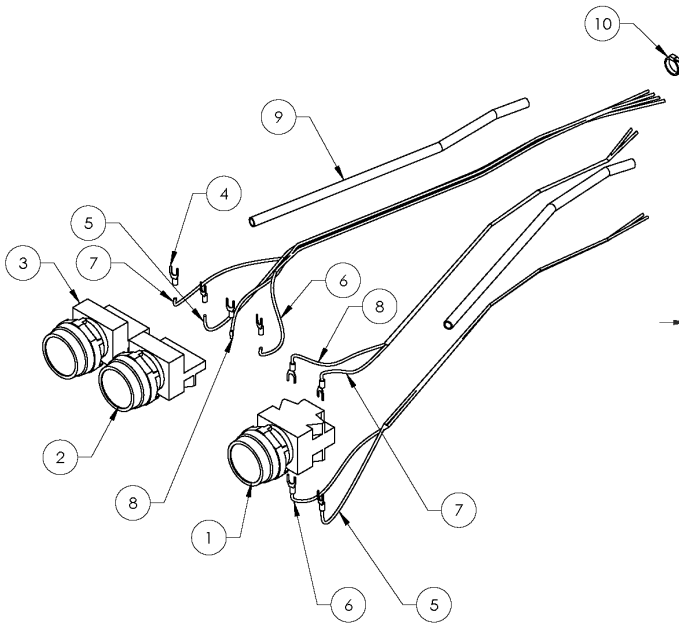
DETAIL A
SCALE 1:1

BondPak 1645 LEMONWOOD DR. SANTA PAULA, CA 93060

TITLE: **3 BUTTON BOARD**

SIZE DWG. NO. REV
A 5520145 **A**

SCALE: 1:2.5 SHEET 2 OF 2



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5585212	BUTTON, BLUE, IEC 41-10650, 4 POLE	1	--
2	5525250	BUTTON, GREEN, IEC 41-10650, 2 POLE	1	--
3	5525205	BUTTON, RED, IEC 41-10650, 2 POLE	1	--
4	5520002	WIRE CRIMP TERMINAL, OPEN, NON-INSULATED	8	--
5	5520003	WIRE, AWG 18, YELLOW, STRANDED, PVC	2	--
6	5520139	WIRE, AWG 18, BLACK, STRANDED, PVC	A/R	--
7	5520138	WIRE, AWG 18, RED, STRANDED, PVC	A/R	--
8	5520580	WIRE, AWG 18, GREEN, STRANDED, PVC	A/R	--
9	5520015	SLEEVE, BLACK PVC, 6mm	2	--
10	5505620	6" CABLE TIE	A/R	--

DO NOT SCALE DRAWING

DRAWN SH 07/27/2015
 CHECKED CA 10/23/2015

THIRD ANGLE PROJECTION

BondPak 1645 LEMONWOOD DR. SANTA PAULA, CA 93060

TITLE: **WIRE HARNESS / BAS**

SIZE DWG. NO. REV
A 5520260 **A**

SCALE: 1:3 SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS
 THE SOLE PROPERTY OF BONDPAK INC. ANY
 REPRODUCTION IN PART OR AS A WHOLE WITHOUT
 THE WRITTEN PERMISSION OF BONDPAK INC. IS
 PROHIBITED.



1645 Lemonwood Drive
Santa Paula, CA 93060 USA