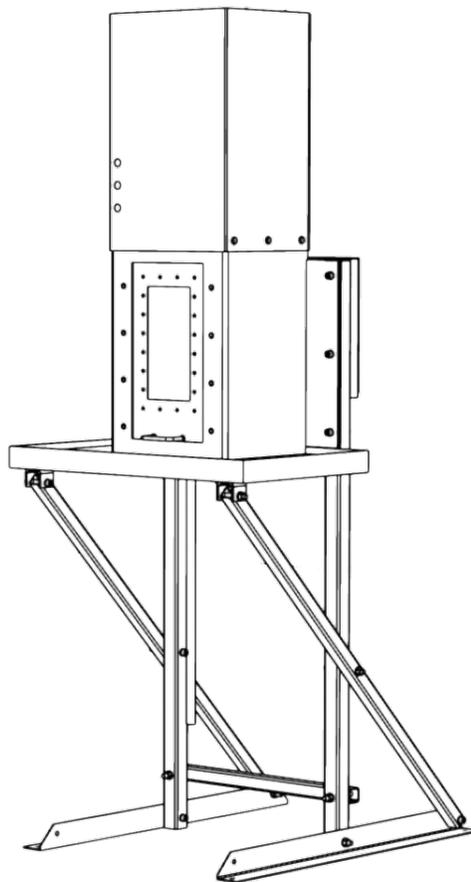

High-Speed Oil Filter Crusher

Installation and Operation Manual

Manual P/N 5900392 — Manual Revision C1 — September 2019

Models:

- RP-50FC
- RP-50FC-E



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

 **DANGER**

Read the *entire contents* of this manual *prior* to setup or operation. 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 reference. By proceeding with setup and operation, you agree that you fully understand the contents of this manual.

Manual. RP-50 Series of High-Speed Oil Filter Crushers, *Installation and Operation Manual*, Manual P/N 5900392, Manual Revision C1, Released September 2019.

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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: _____

		Santa Paula, CA USA www.rangerproducts.com	
MODEL NUMBER			
SERIAL NUMBER			
VOLTAGE			
DESCRIPTION			
DATE OF MFG.			
		DANGER! Disconnect Power Before Servicing	
		 	
WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905279			

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Introduction

This manual describes the RP-50 series of high-speed oil filter crushers from Ranger Products, which apply up to 25 tons of electric 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-50RC:** 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.
- **RP-50RC-E:** High-speed oil filter crusher that uses a 380–415 VAC, 50 Hz, three phase motor. This motor is suitable for use **outside** the United States.

 **WARNING** BendPak Ranger requires using a **licensed, certified electrician** to wire your motor to the power source. Wiring the motor incorrectly could result in human 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 and the RP-50FC-E, including anyone who sets them up, operates them, maintains them, or repairs them.

 **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).

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.
- When using the product, wear appropriate work clothes and ANSI-approved safety goggles. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- When the product is in use, keep all body parts away from it.
- 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. Use the product indoors in a well-ventilated area.
- Do not make any modifications to the product.
- 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 No. 14 AWG **minimum**.

- 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:

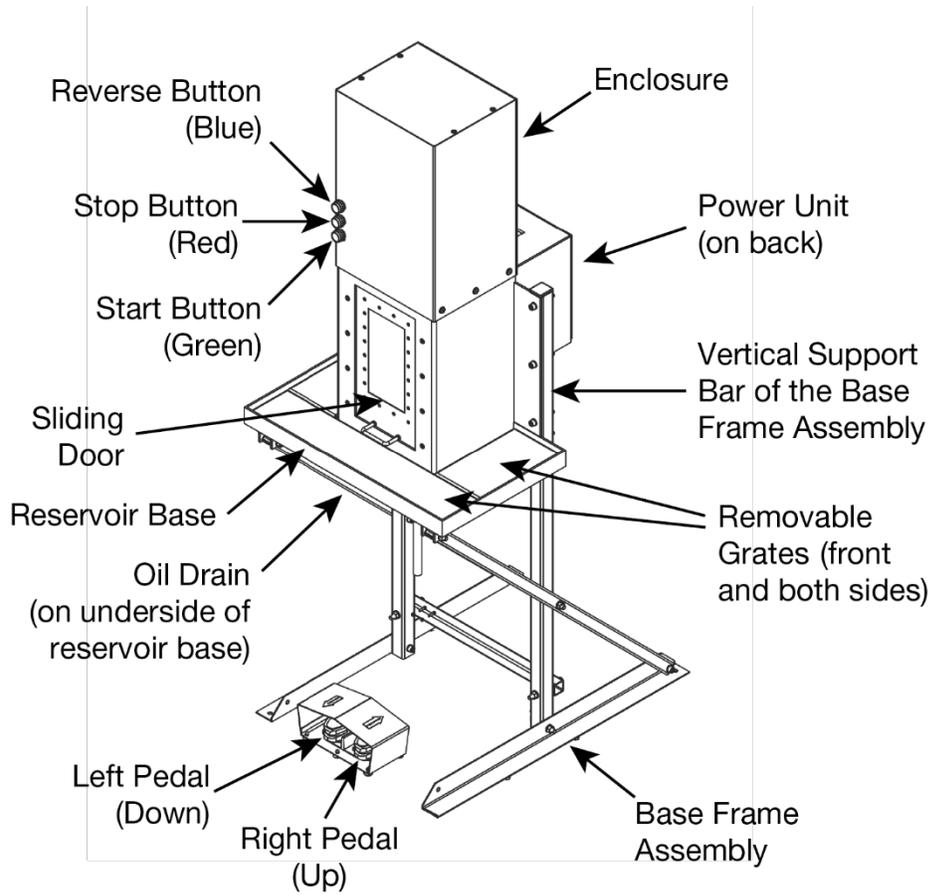
- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Ranger.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Specifications

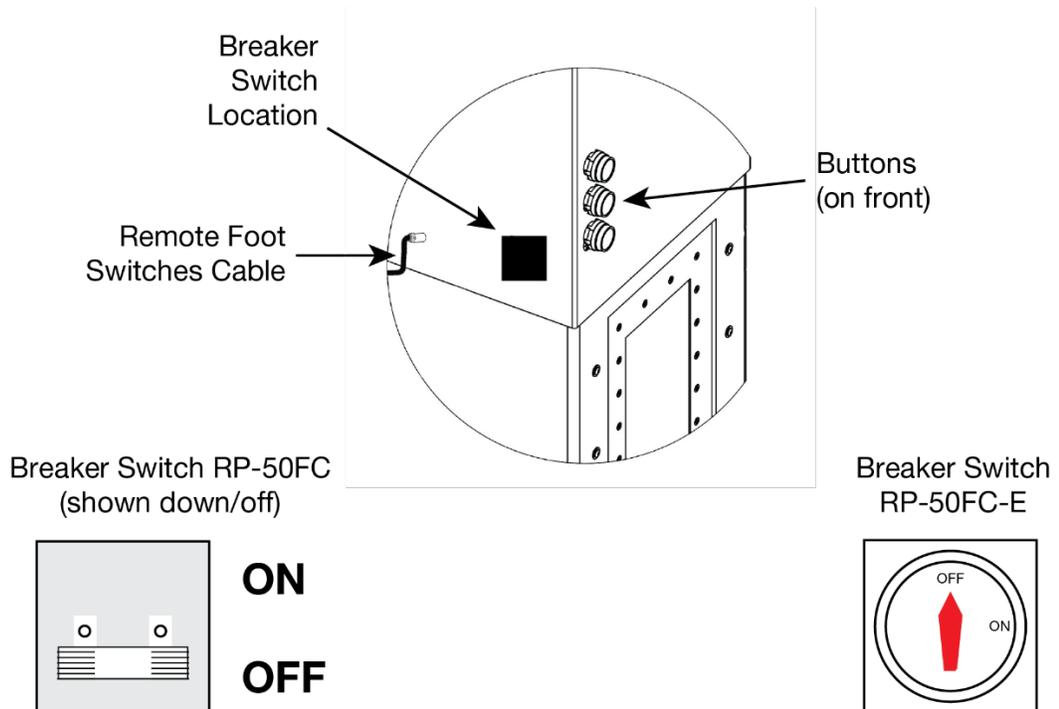
Height	88.5" (7.3 feet) / 2,248 mm
Width	32.5" (2.7 feet) / 825.5 mm
Depth	31.5" (2.6 feet) / 800 mm
Chamber height	17.5" / 444.5 mm
Chamber width	9.75" / 247.6 mm
Chamber depth	11.75" / 298.4 mm
Average cycle time	8 to 15 seconds
Weight	415 lbs / 188 kg
Power units	RP-50RC: 208–230 VAC, 60 Hz, 1 Ph RP-50RC-E: 380–415 VAC, 50 Hz, 3 Ph

Components

The following figure shows the major components of the unit.



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



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

Assembling the base frame:

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 base frame assembly and reservoir base are now assembled.

Mounting the enclosure to the base frame:

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.

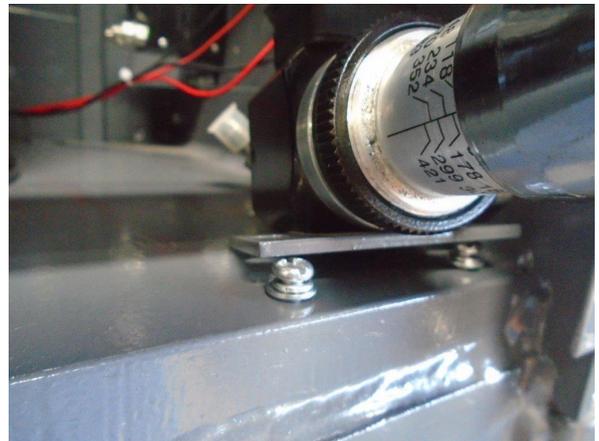


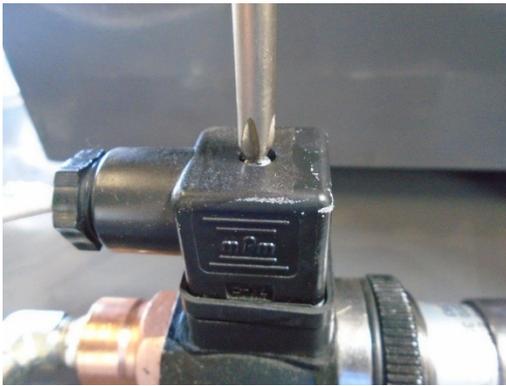
2. Connect the cylinder hose to the pressure switch. Tighten the hose to the cylinder at the top.



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.



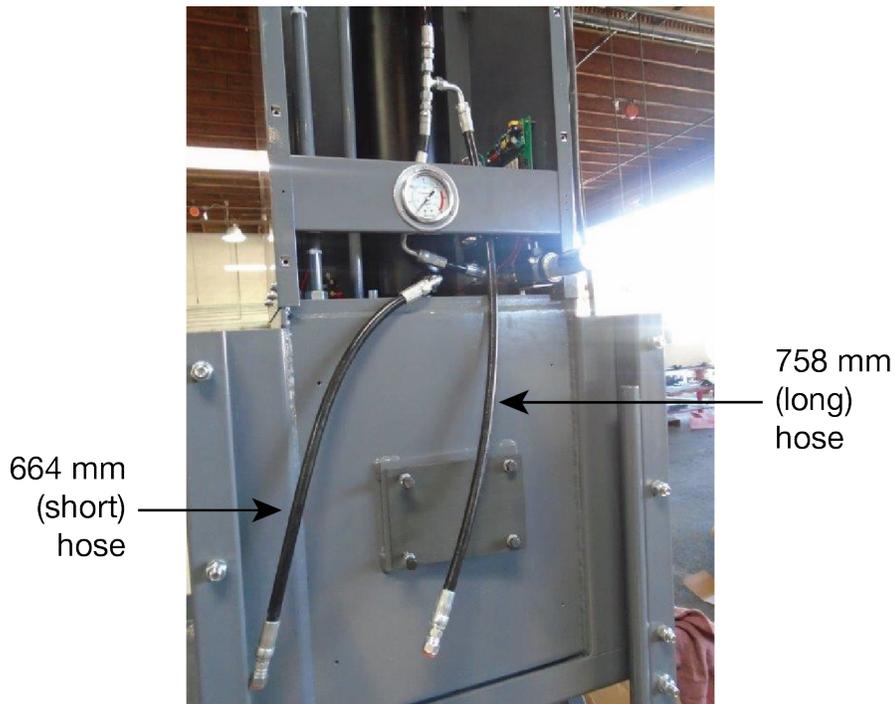


4. Connect the **anti-vibration pad and the motor at the same time** to the back of the enclosure.

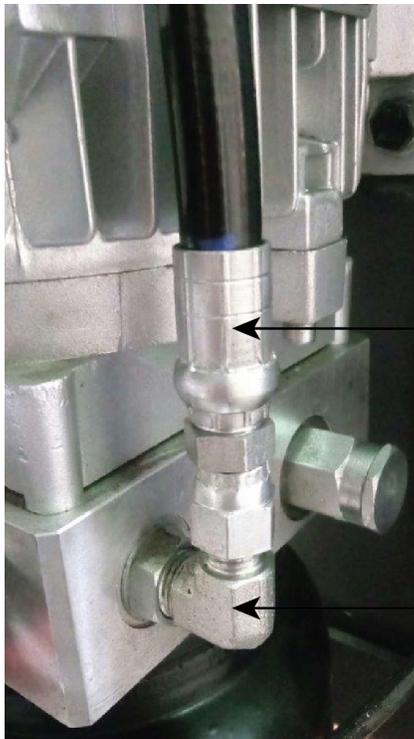
Use Screw C and two washers per screw to attach the anti-vibration pad.



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.

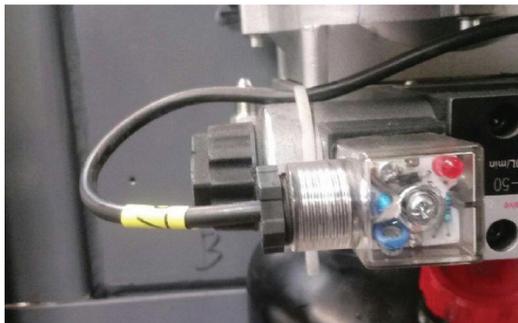
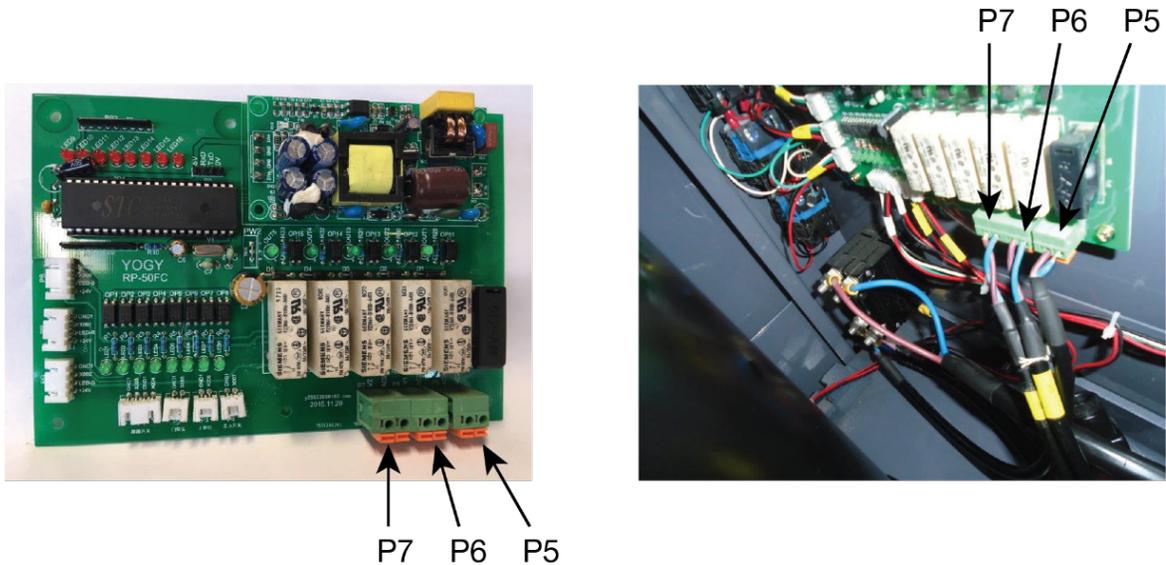


Wiring the RP-50RC:

⚠ CAUTION Wiring is different for the RP-50RC and the RP-50RC-E. Make sure to use the correct procedure for the model you have. Using the wrong procedure for your model could damage it.

⚠ DANGER All electrical work ***must be done by a licensed, certified Electrician in accordance with all applicable local electrical codes.*** Damage caused by improper electrical installation may 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.

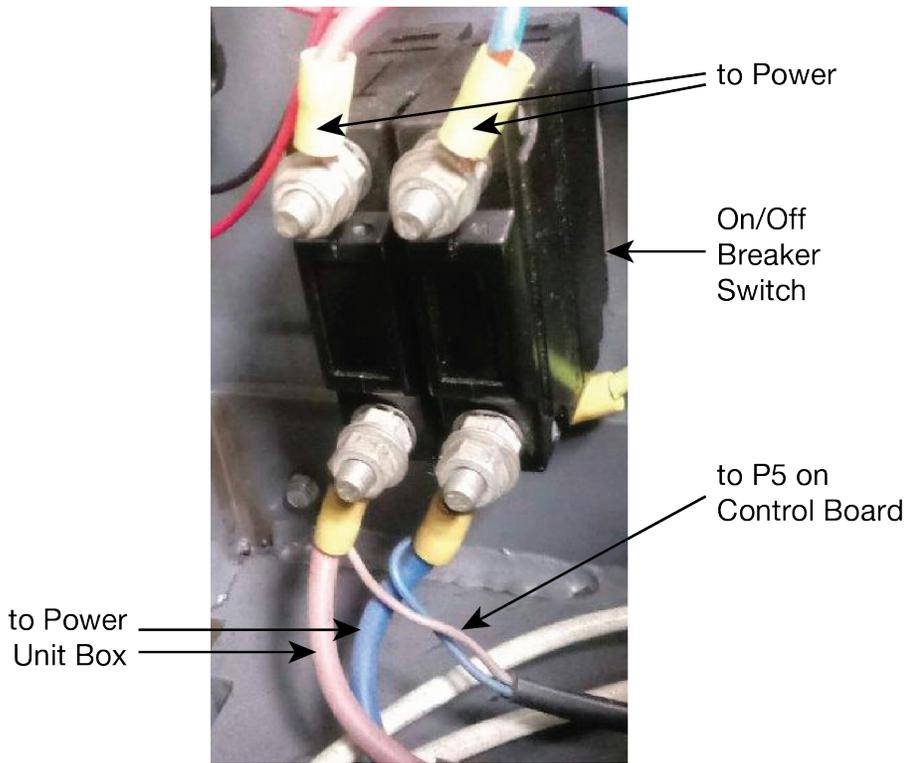


Right Side of Power Unit

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.

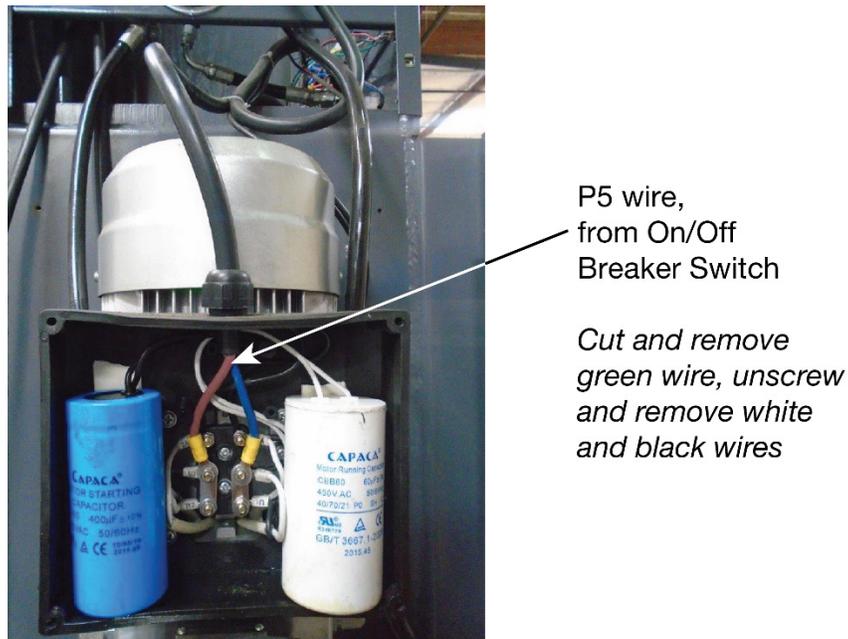
Connect P5 first to the **bottom** of the On/Off Breaker Switch.



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

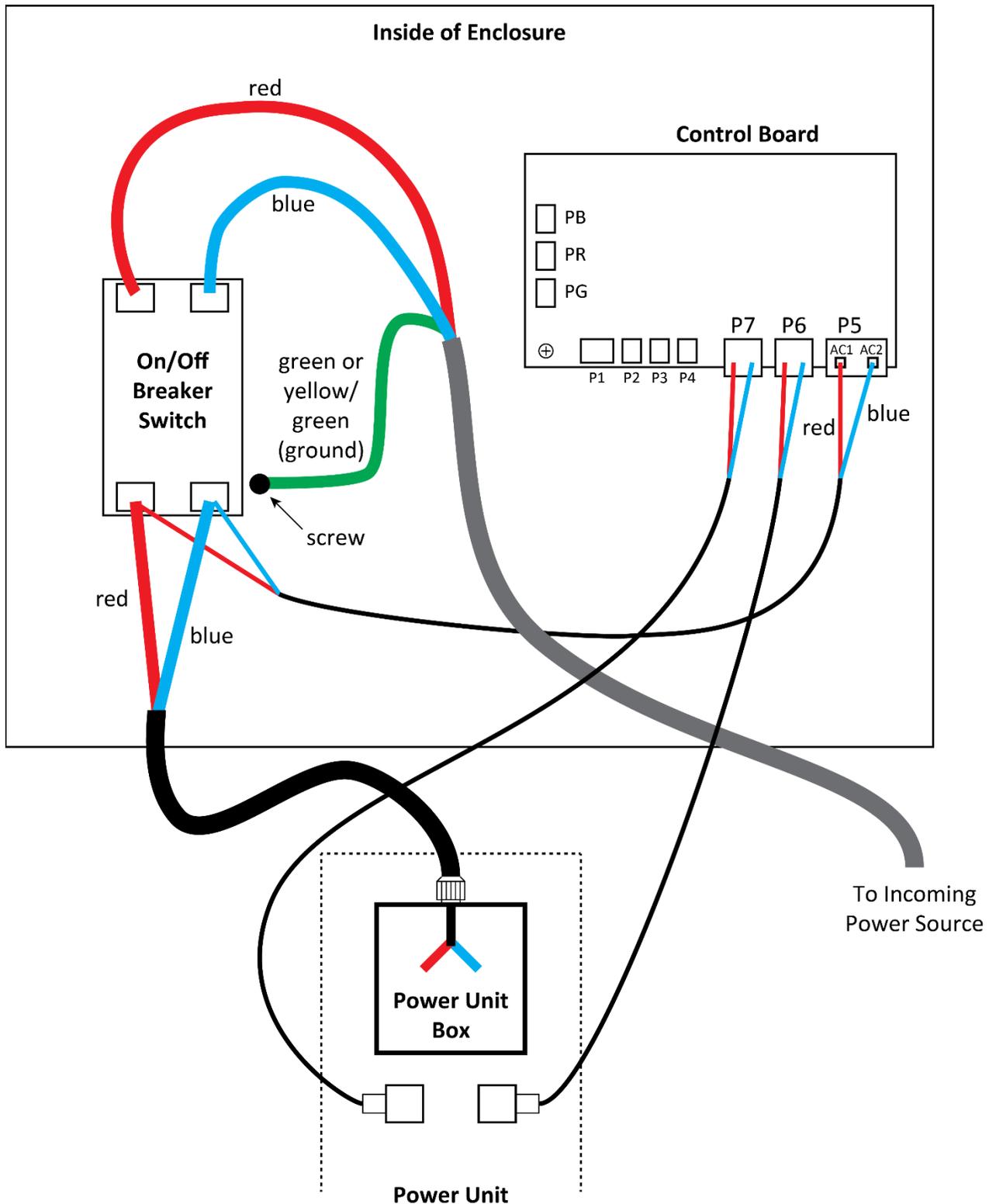
4. Connect the longer, bigger red and blue wires to the Power Unit Box on the Power Unit.

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



Power Unit Box
(cover removed)

The following drawing shows the wiring you have to connect for the **RP-50RC**.



*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.

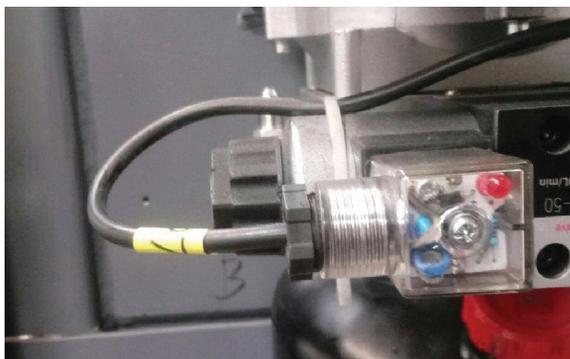
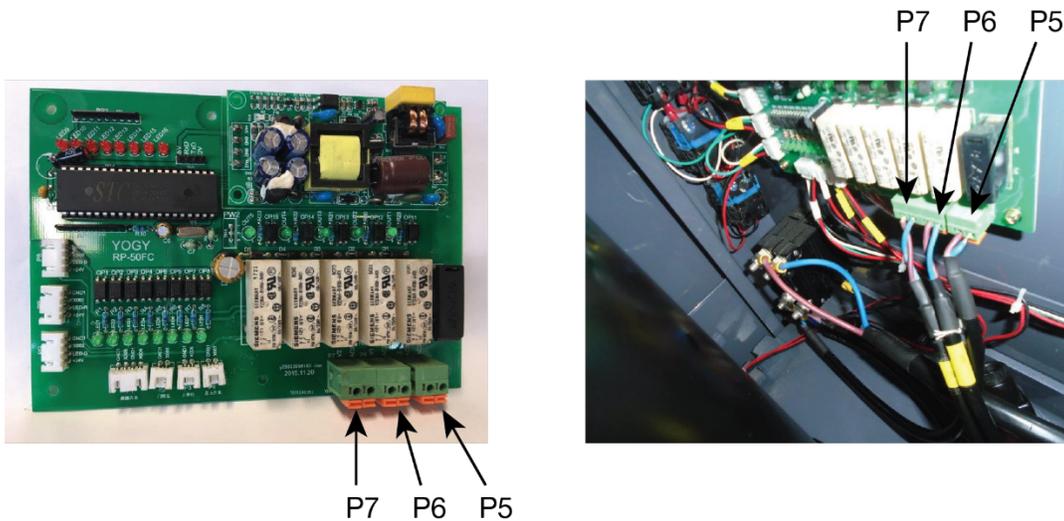
The unit is now ready for operation.

Wiring the RP-50RC-E:

⚠ CAUTION Wiring is different for the RP-50RC and the RP-50RC-E. Make sure to use the correct procedure for the model you have. Using the wrong procedure for your model could damage it.

⚠ DANGER All electrical work ***must be done by a licensed, certified Electrician in accordance with all applicable local electrical codes.*** Damage caused by improper electrical installation may void your warranty.

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



Left side of motor

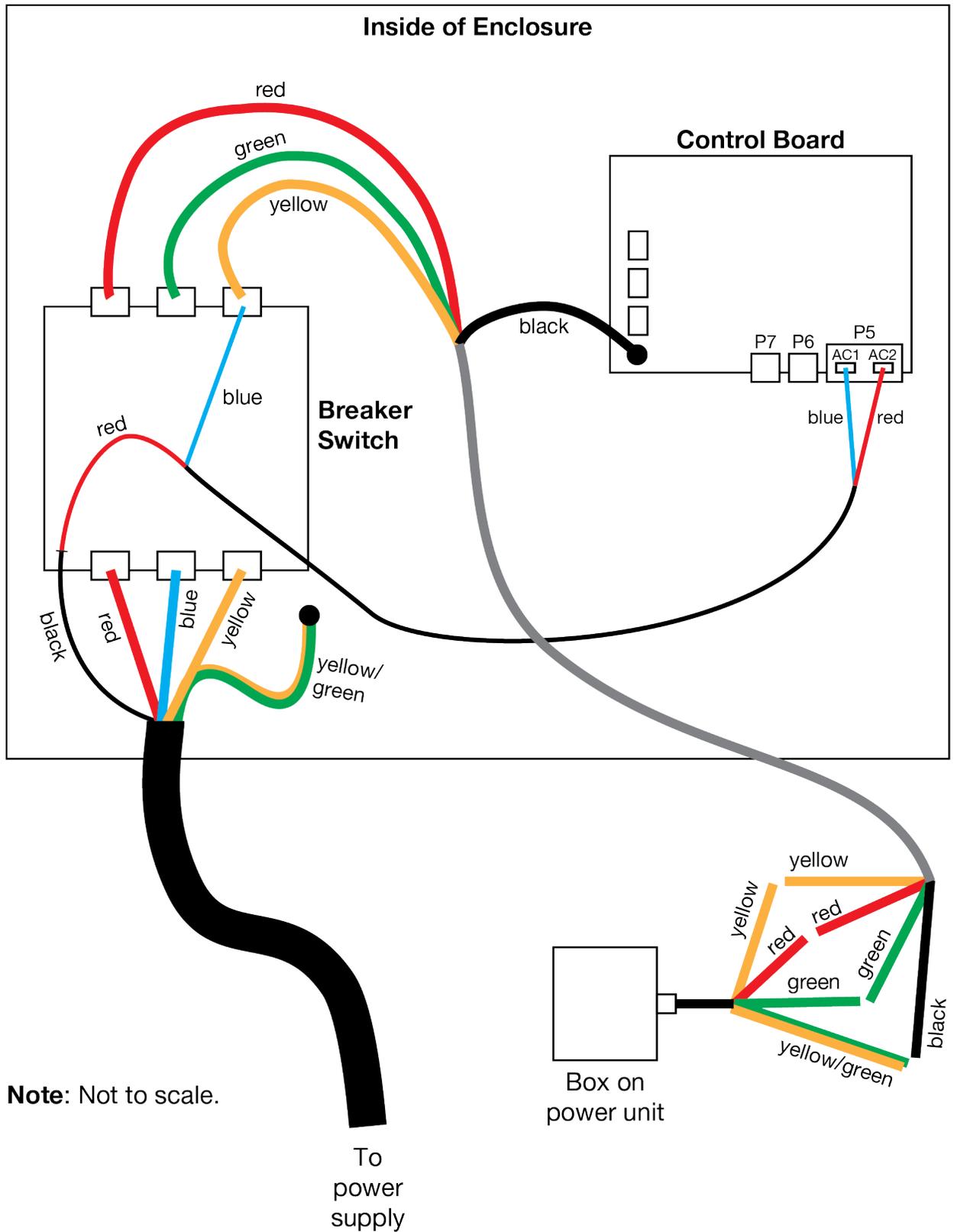
Connect one end of P7 to the control board, the other end to the left terminal shown above.



Right side of motor

Connect one end of P6 to control board, the other end to the right terminal shown above.

- Connect P5 on the control board, the breaker switch, the cable to the power supply, and the box on the Power Unit as shown in the drawing of the **RP-50RC-E** wiring below.



-
- 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 then 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** Hold the sliding door open when placing filters in, or retrieving filters from, the chamber. Do not operate the crusher with the door open.

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.

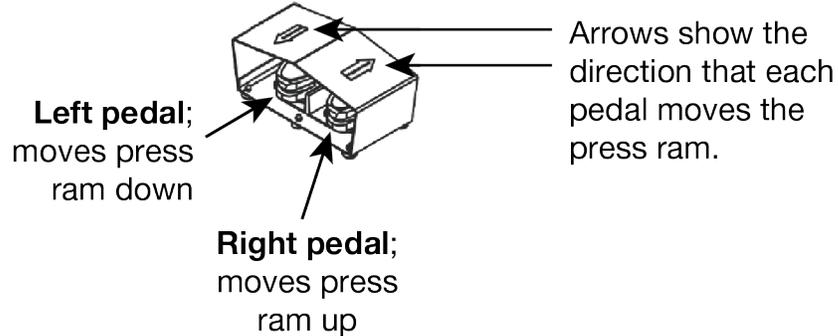
Do not get distracted when removing a crushed filter. Be very careful not to scratch, cut, or puncture your skin on the sharp edges of the crushed filter. Watch for leaking oil.

 **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.

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

Issue	Action to Take
Press ram does not move when buttons or foot pedals are pressed.	<p>Check the connections to the power source.</p> <p>Make sure all equipment connections and wiring are set up correctly.</p> <p>Make sure 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.</p> <p>Make sure 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.</p>
Ram moves sluggishly.	<p>Check to see if air is trapped in the hydraulic system.</p> <p>If there is air, loosen 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.</p>
Cycle stops before completing.	<p>Press the red Stop button to end the cycle.</p> <p>Check to see if the item being crushed is stuck; if so, remove the item and start again.</p> <p>Check to see if the item being crushed is off center. If so, balance the load and start again.</p>
The green Start button works, but the right Down pedal does not.	<p>Make sure the foot pedals are connected to the remote foot switches cable on the left side of the unit.</p>

Parts Diagrams

REV	DESCRIPTION	REVISION	DATE	EDITED BY	ECO#
A	PRODUCTION RELEASE		01/22/2015	TM	00667
B	REMOVED 5/15/19, 5/23/2011, 5/24/013, AND 5/33/99S, UPDATED FROM REVISIONS		02/19/2016	TM	00751

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	5323356	Ø3.5 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	5345201	WASHER, M12 SPRING LOCK	6	--
22	5345347	WASHER, M12 FLAT WASHER	6	--
23	5330125	SHCS M12 x 1.75 x 80	6	--
24	533012	NUT M12x1.75 NI	6	--
25	5345034	WASHER M5 x Ø1.5 FLAT	28	--
26	5330257	BHPS M5 x 0.8 x 16	28	--
27	5335142	NUT M5 x 0.8 NI	28	--
28	5345021	WASHER M8 x Ø20 FLAT	6	--
29	5715018	RP-50FC PLASTIC COVER BLOCK 56 x 50	2	A
30	5330001	NUT M8 x 1.25 NI	6	--
31	5330160	BHPS M8 x 1.25 x 20	6	--
32	5330774	SHCS M6x1x16HITILL	2	--
33	5323405	RP-50FC DOOR SWITCH MOUNT	1	A
34	5345024	WASHER M3 x 9mm	3	--
35	5330030	NUT M3 x 0.5	3	--
36	5330268	PHPS M3 x 0.5 x 10	3	--
37	5345226	WASHER M5 x 9.2mm SL	2	--
38	5405101	SHCS M5 x 0.8 x 20	2	--
39	5320018	PC BOARD SNAP-IN RAIL GUIDE	2	--

DO NOT SCALE DRAWING

DRAWN: TM DATE: 01/22/2015

CHECKED: [Signature]

THIRD ANGLE PROJECTION

1645 LEMONWOOD DR
BendPak
SANTA PAULA, CA 93060

TITLE: RP-50FC OIL FILTER CRUSHER ASSEMBLY

SIZE: DWG. NO. A 5150086

SCALE: 1:15

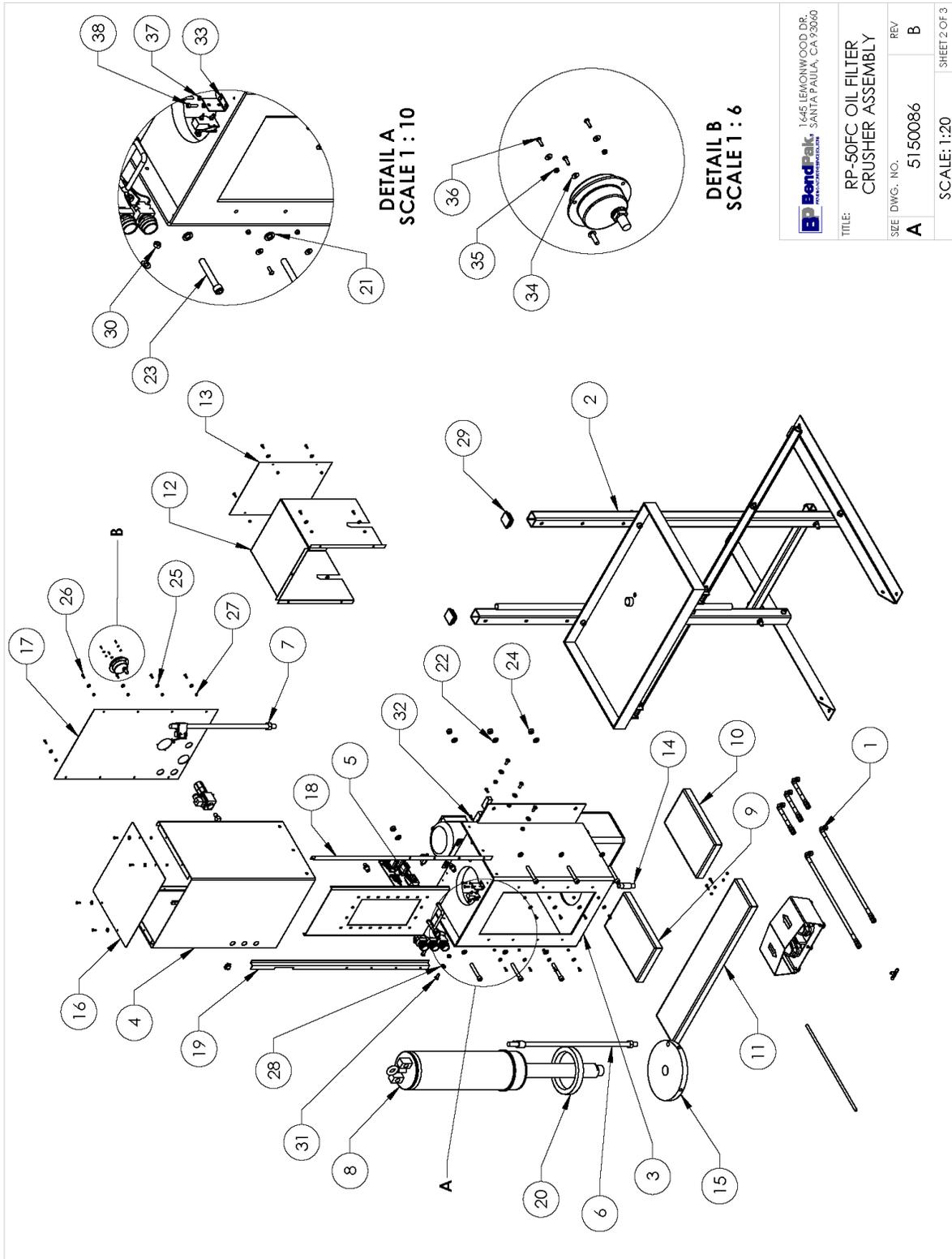
REV B

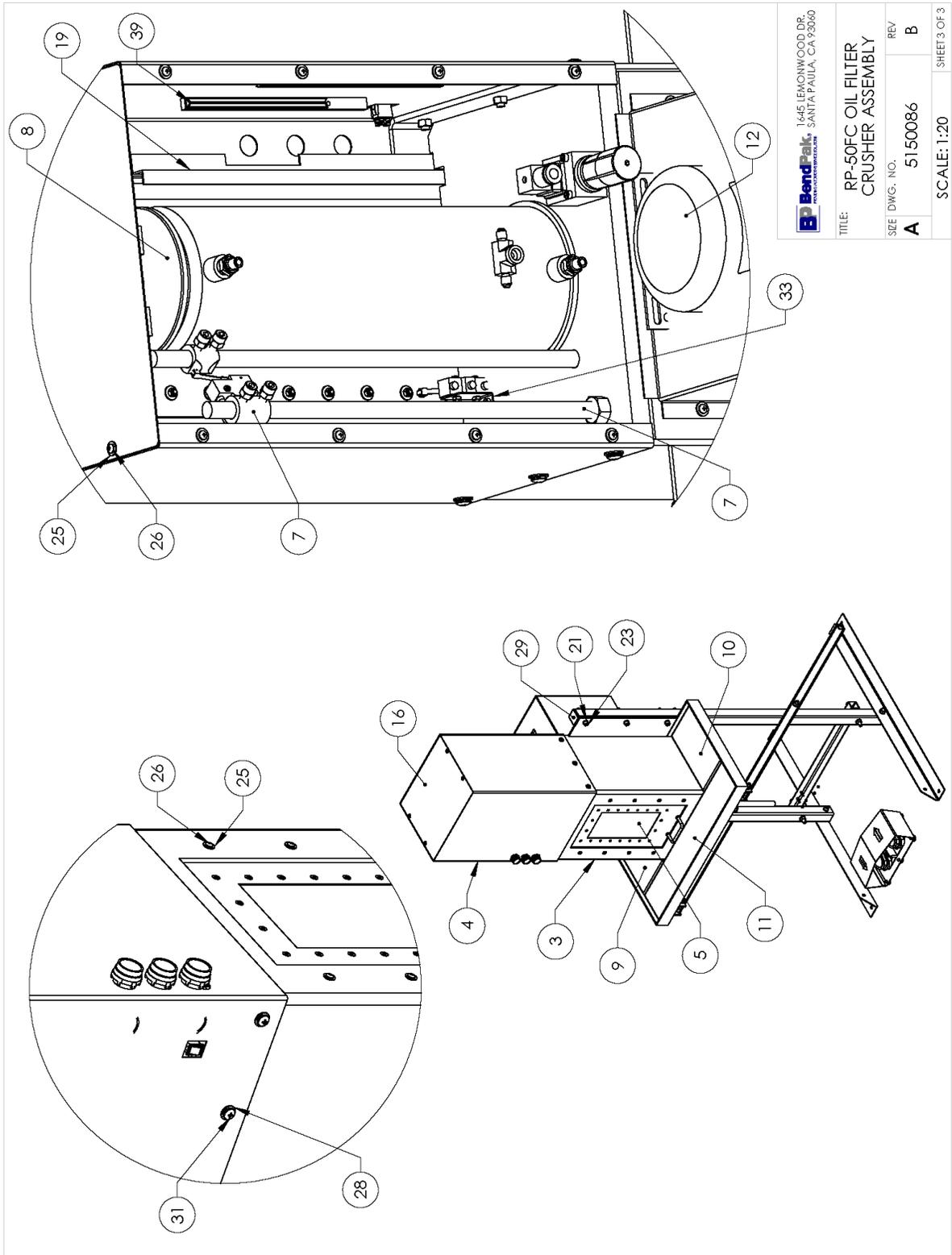
SHEET 1 OF 3

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SMILEY FACE

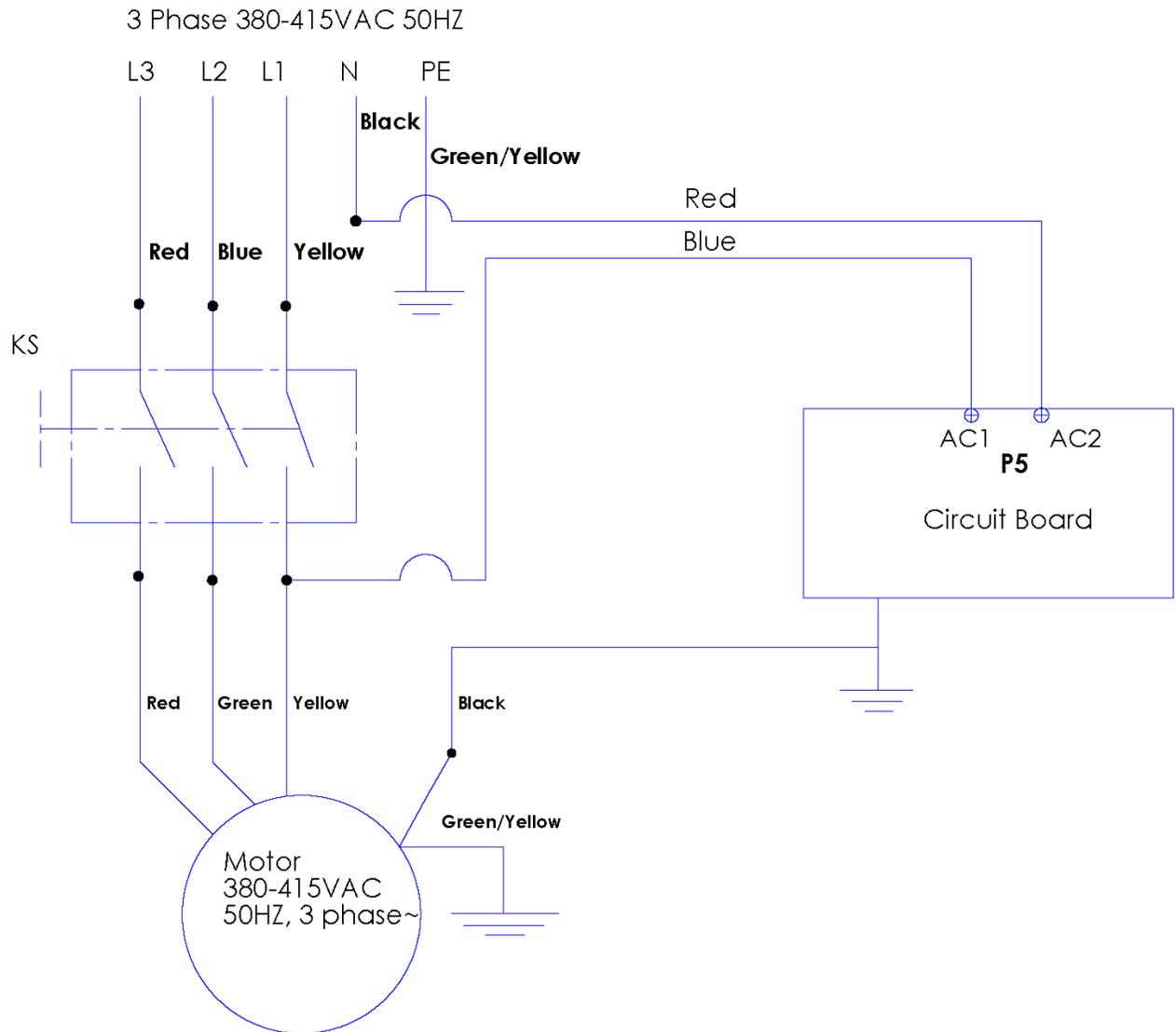
NOTE: UNLESS OTHERWISE SPECIFIED,
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN





Wiring Diagram

RP-50FC-E





1645 Lemonwood Drive
Santa Paula, CA 93060 USA