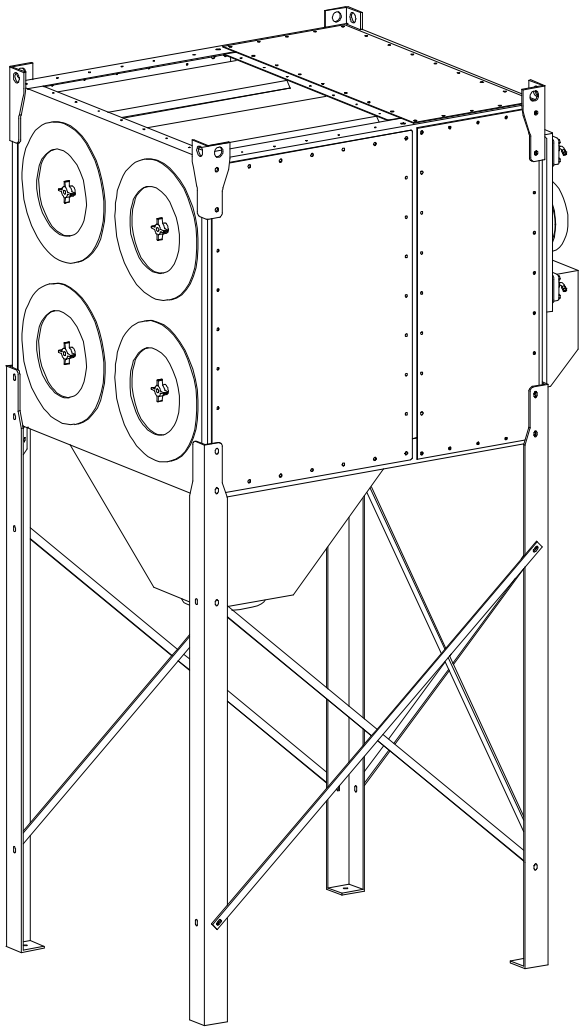
MICRO-AIR DUST COLLECTOR
INSTALLATION AND OPERATION MANUAL

MICRO-AIR CARTRIDGE DUST COLLECTORS
MODELS: RP4, RP6, RP8

Includes Installation, Operation, and Service Instructions



IMPORTANT

This manual contains specific cautionary statements relative to worker safety. Read this manual thoroughly and follow as directed. It is impossible to list all of the hazards of dust control equipment. It is important that use of the equipment be discussed with a Micro-Air® Representative. Persons involved with the equipment or systems should be instructed to operate in a safe manner.

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MICRO-AIR® DUST COLLECTOR INSTALLATION

CAUTIONS

- Avoid mixing combustible materials, such as buffing lint, paper, wood, aluminum, and magnesium dust, and with dust generated from grinding ferrous metals due to the potential fire hazard caused by sparks in the dust collector.
- Under no conditions should the persons operating the dust collector be allowed to put cigarettes or any burning object into the hood or ducting of any dust collector system.
- All users of Micro-Air® Dust Collector Equipment should comply with all National and Local Fire Codes and/or other appro priate codes when determining the location and operation of dust control equipment.
- When dust collectors are used to collect flammable or explosive dusts, the dust collector should be located outside the building. Also, an installer of fire extin guisher equipment,
- Explosion relief vents are required on some applications. Consult with an insurance underwriter or a NFPA Manual to determine proper vent size ratio. Vents installed on dust control equipment within a building must be vented to the outside to minimize chances of secondary explosion. Consult the proper authority to determine proper method of venting. **Dust collectors do not contain Explosion Relief Vents, except on special order.**

MICRO-AIR® DUST COLLECTOR SPECIFICATIONS

INPUT VOLTAGE

208-230/460V, 60 Hz, 3-Phase

MAXIMUM CURRENT

5 HP:	208 - 230V / 13.2 - 12.0 amps
	460V / 6.0 amps
7-1/2 HP:	208 - 230V / 21.0 - 18.8 amps
	460V / 9.4 amps
10HP:	208 - 230V / 26.4 - 24.0 amps
	460V / 12.0 amps

MOTOR

5 HP, 3-Phase TEFC Motor, 3450 RPM
7-1/2 HP, 3-Phase TEFC Motor, 3450 RPM
10 HP, 3-Phase TEFC Motor, 3450 RPM

CABINET DIMENSIONS AND WEIGHTS

RP4	129in H x 42in W x 62in D	1315 lb.
RP6	151in H x 42in W x 62in D	1460 lb.
RP8	171in H x 42in W x 62in D	1850 lb.

FILTER AREA

RP4	936 Sq. ft
RP6	1404 Sq. ft
RP8	1872 Sq. ft

DUST TRAY CAPACITY (OPTIONAL)

2.8 Cubic feet total

AIR REQUIREMENTS

- 2.7 SCFM at 80 psi at factory settings.
- Minimum air line 3/4 inch at 80 psi maximum.
- 3/4 inch NPT Female fitting is standard for shop air attachment.
- Clean, dry, compressed air at the correct pressure is required for the cleaning system to operate correctly. It is recommended that a pressure regulator and coalescing filter be in stalled between the compressed air source and the inlet to the dust collector.

INSTALLATION

INSPECTION

The Micro-Air® Dust Collector is shipped on two skids. Both skids should be inspected for any visible damage that may have occurred during shipment. One skid is the blower motor and collector cabinet. The other skid will have the following:

1 ea. Dust Collection Tray/Hopper

4 ea. Mounting Legs

Additional equipment that may be shipped separately includes:

Leg Cross Bracing Kit

55 Gallon Barrel Lid Kit

Inlet Plenum with (4) 14" x 14" Inlets

Discharge Silencer

Hepa After-Filter Kit

Photohelic Kit

Magnehelic Kit

Remote Start/Stop Station

EQUIPMENT / TOOLS REQUIRED

Equipment and tools needed for proper installation will include the following:

Crane or Lift Truck

Lift Straps or Chain

1/2" Socket Wrench

Pipe Wrench

ASSEMBLY OF UNIT

1. Determine the location where the unit is to be installed. Be sure to allow sufficient room to access the unit for servicing and maintenance on all sides.
2. Lift the unit with a lift truck or overhead crane using the four lifting lugs located at the corners of the unit (see **FIG. 1**).

NOTE: Each lifting strap or chain should be rated for 2000 lb. The chains located on the motor side should be 10 inches shorter than the front to properly balance the unit while lifting. Recommended chain lengths are as follows:

Front Side 48 inches

Motor Side 38 inches

CAUTION:

THE UNIT SHOULD BE LIFTED OFF THE SKID AND SET INTO POSITION UTILIZING THE LIFTING LUGS PROVIDED. SEVERE DAMAGE MAY RESULT FROM ANY OTHER LIFTING METHOD.

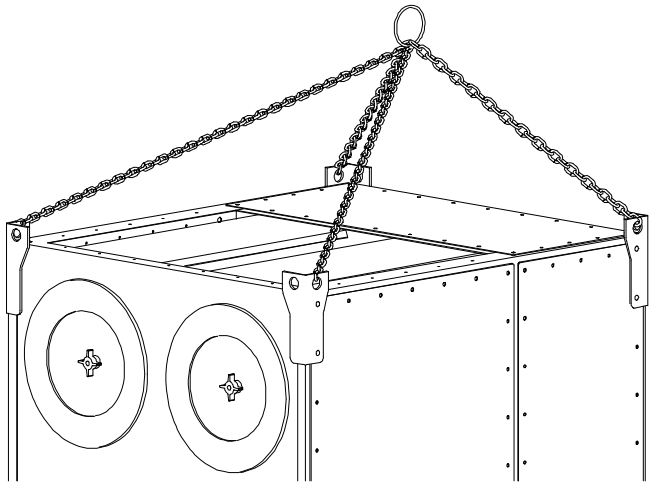


FIG. 1

3. Bolt on the four legs. The two lower bolts at each corner will be removed and used to attach each leg (see **FIG. 2**).

CAUTION:

THE UNIT IS NOT DESIGNED TO BE OPERATED WHILE HANGING FROM LIFTING LUGS. UNIT MUST BE MOUNTED ON LEGS.

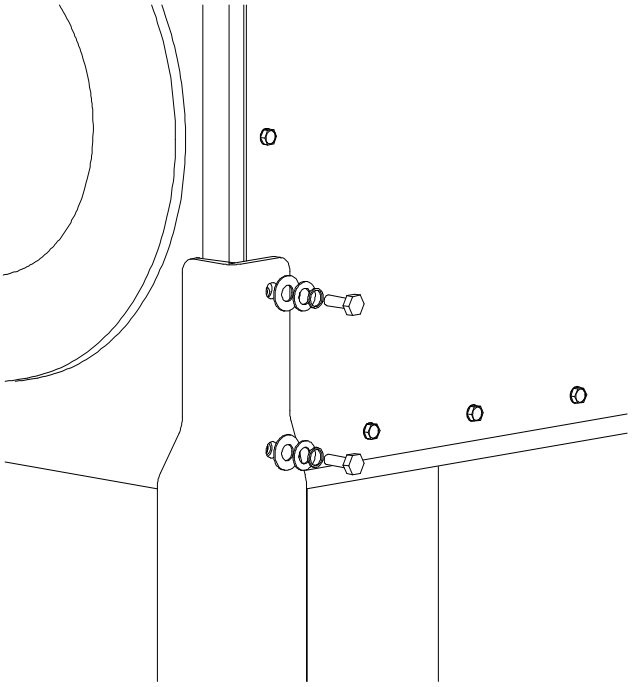


FIG. 2

4. When the legs have been completely installed each leg should be bolted to the ground using the hole provided in the base plate of the leg (see **FIG. 2A**).
5. After the legs have been properly anchored, the dust containment system can be installed. (Refer to pages 9-10)

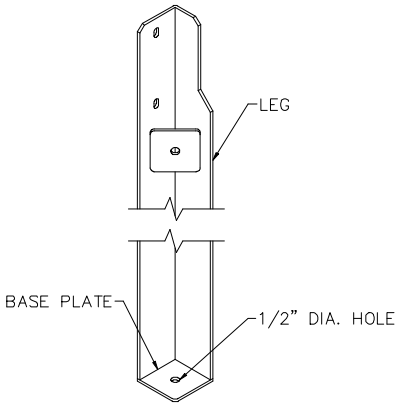


FIG. 2A

COMPRESSED AIR INSTALLATION

The compressed air inlet for the Roto-Pulse cleaning system is at the top of the piping assembly located on the backside of the unit near the blower motor (see **FIG. 3**). A minimum of a 3/4 inch line and plant air at a pressure at 80 psi is required for proper operation of the Roto-Pulse cleaning system.

NOTE:

Clean, dry, compressed air at the correct pressure is required for the cleaning system to operate correctly. It is recommended that a pressure regulator and coalescing filter be installed between the compressed air source and the inlet to the dust collector.

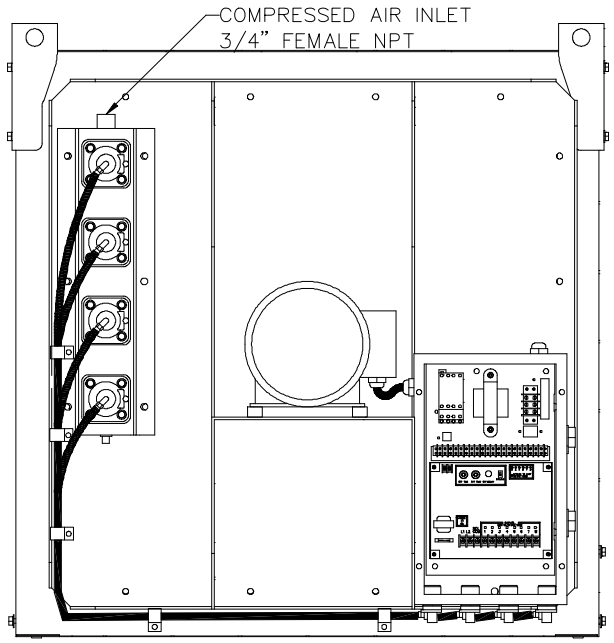


FIG. 3

ELECTRICAL INSTALLATION

1. Remove the electrical box cover located on the backside of the unit near the blower motor.
2. Make connections from your supply power to terminal L1, L2, and L3. Wire size should be rated for motor horsepower load needed for your application (see **FIG. 4**).

NOTE: A 7/8" diameter hole is provided for conduit connection of supply power.

3. Connect the power. Momentarily turn the unit on and off with the start/stop switches. Note the rotation of the motor. Proper rotation can be viewed at the open end of the blower motor. (Remove the motor access plate if your unit has been supplied with a motor/silencer shroud.) The proper rotation is in the clockwise direction.

NOTE:

All electrical work must be done by a qualified electrician according to local codes.

CAUTION:

INSTALLATION CAN CAUSE EXPOSURE TO LIVE COMPONENTS. DISCONNECT ELECTRICAL POWER BEFORE PROCEEDING WITH INSTALLATION. PROPER LOCK OUT / TAG OUT PROCEDURES SHOULD BE USED.

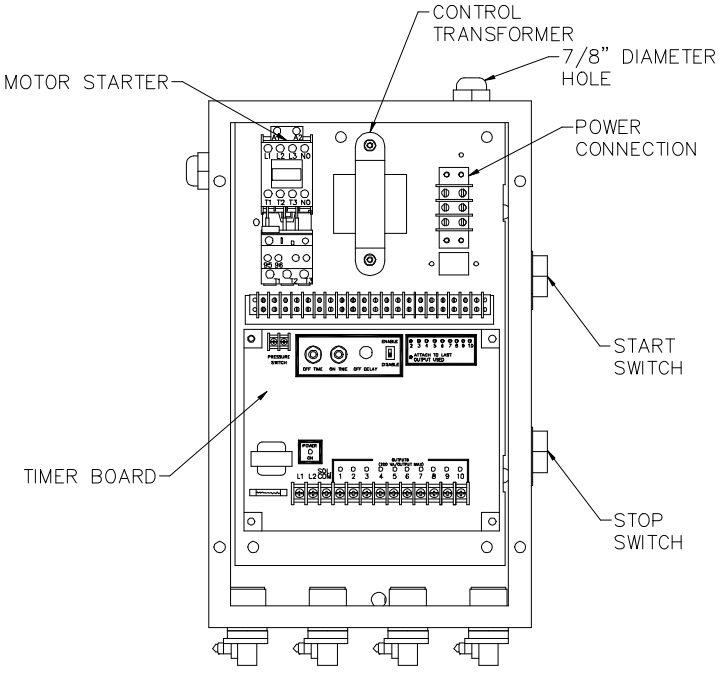


FIG. 4

4. If motor rotation is in the proper direction then AMP draw of the motor should be checked. Correct motor AMP draw information is located on the inside of the Electrical Box Cover. If motor current is higher than rated for the motor supplied, do not continue operation. Re-check your wiring (refer to the inside of the electrical box cover) and if problems continue contact your Micro-Air® Dust Collector representative forinstructions.
5. Reassemble the electrical box cover onto the enclosure.

UNITS INSTALLED OUTDOORS

1. The Remote Start/Stop Control Enclosure supplied with the unit is not rated for outdoor use. The Control enclosure must be mounted indoors.
2. When the enclosure is mounted, make connection from yoursupply power to terminals L1, L2, and L3. Wire size should be rated for motor horsepower load needed for yourapplication (see **FIG. 4**).
3. When power connections have been made refer to wiring diagrams on pages 23-25 for wiring required between the remote Start/Stop enclosure and the Nema 4 J-box located on the unit.
4. When supply power has been terminated, reconnect the power. Momentarily turn the unit on and off with the Start/ Stop switches. Note the rotation of the motor. Proper rotation can be viewed at the open end of the blower motor (Remove the motor access plate if your unit has been supplied with a motor/silencer shroud). The proper rotation is in the clockwise direction.
5. If motor rotation is in the proper direction then AMP draw of the motor should be checked. Correct motor AMP draw information is located on the inside of the Electrical Box Cover. If motor current is higher than rated for the motor supplied, do not continue operation. Re-check your wiring (refer to the inside of the electrical box cover) and if problems continue contact your Micro-Air Dust Collector representative for instructions.
6. Reassemble the electrical box cover onto the enclosure.

UNIT OPERATION

1. Turn the unit on via the start switch located on the side of the electrical box.

NOTE: Some particulate may pass through the cartridge filters and blower upon initial start-up. This will end once the filters have been seasoned and a powder cake has formed on the filter. If this condition continues to occur refer to the section **ROTO-PULSE CLEANING TIMER ADJUSTMENTS** to increase the period of time between pulses.

2. Once the unit is running the Roto-Pulse cleaning system will be operational. Operation is detected by hearing a .07-second air pulse approximately every 5 seconds. If adjustment to timing of pulses is desired refer to the section **ROTO-PULSE CLEANING TIMER ADJUSTMENTS**.
3. Check the After-Pulse Cleaning cycle by turning off the unit via the stop switch located on the side of the electrical box. The unit should continue to pulse every 5 seconds for a period of approximately 17 minutes. If adjustment to the after-pulse time is desired, refer to the section labeled **AFTER-PULSE CLEANING**.

CARTRIDGE CLEANING OPERATION

The Micro-Air® Dust Collector is designed with the Roto-Pulse Cleaning System to clean the cartridge filters.

This system provides superior cleaning performance using a rotating tube with pre-drilled holes (see **FIG. 5**). As the diaphragm valve opens, the Roto-Pulse tube rotates while air exits the holes, thus providing the cleaning of the cartridge.

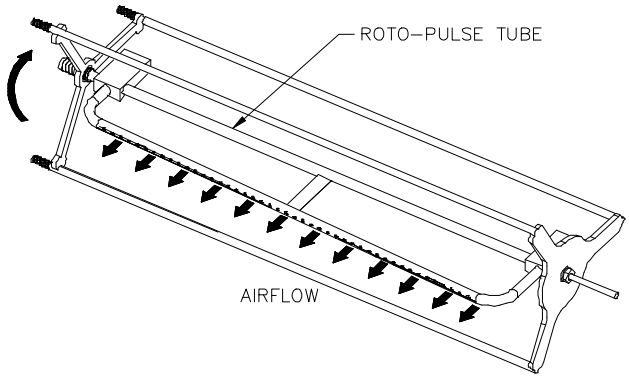


FIG. 5

1. For proper cleaning, the compressed air pressure should be regulated at 80 psi maximum.
2. During normal operation the Roto-Pulse cleaning system is factory set to clean two (2) cartridge filters for a period of .07 seconds every 5 seconds.
3. Once the unit is turned off, the cleaning cycle will continue for a period of 17 minutes. Do not service the filters until cleaning is completed.

CAUTION:

ALLOW 20-MINUTES DOWNTIME BEFORE OPENING FILTER ACCESS DOORS. AFTER-PULSE SYSTEM IS MOMENTARILY OPERATIONAL AFTER UNIT IS TURNED OFF.

4. The Roto-Pulse cleaning operation dislodges particles from the cartridges. Particles then fall down into the collector.

NOTE: When servicing the collection system, be sure to turn the unit off.

ROTO-PULSE CLEANING TIMER ADJUSTMENTS

CAUTION:

INSTALLATION CAN CAUSE EXPOSURE TO LIVE COMPONENTS. DISCONNECT ELECTRICAL POWER BEFORE PROCEEDING WITH TIMER ADJUSTMENTS. PROPER LOCK OUT / TAG OUT PROCEDURES SHOULD BE USED.

1. Turn unit off via the stop switch and disconnect power.
2. Remove the electrical box cover.
3. The timer control board is preset at the factory to clean two (2) cartridge filters every 5 seconds. This time can be adjusted from 1.5 seconds to 30 seconds by rotating the dial on the timer marked “OFF TIME”.

NOTE: Cleaning of the filters too often will decrease your level of performance. A certain level of dust cake on the filters will improve the efficiency of the filter cartridges. You should try to maintain a minimum of 1 in w.c. of pressure differential across the filters. If you can not maintain this minimum level of differential across the filters the time between cleaning pulses should be increased until this can be achieved.

4. The timer control board is preset at the factory to have a cleaning pulse duration of .07-seconds. This can be adjusted from .05 seconds to .5 seconds by rotating the dial on the timer marked “ON TIME” (see **WIRING DIAGRAMS pages 20-25**).

NOTE: While this time can be adjusted we recommend that you leave the “ON TIME” at the factory setting. If less cleaning is needed you should increase the time between pulses as means of reducing the amount of cleaning. If more cleaning is needed you should decrease the amount of time between pulses. Beware, as the time between pulses is decreased for additional cleaning, this will increase your compressed air consumption and create an additional load on your compressed air system.

5. Once adjustments have been made replace the electrical box cover and reconnect the power.
6. Start the unit and observe the new pulse settings and determine if additional adjustments are necessary. If more adjusting is needed, repeat the previous steps.

AFTER-PULSE CLEANING TIMER ADJUSTMENTS

1. The unit is equipped with an After-Pulse Cleaning Cycle. This cycle will continue to clean the cartridge filters for a period of time after the unit is turned off.
2. The length of the After-Pulse operation is preset at the factory for 1000 seconds (17 minutes). This time can be adjusted from 100 seconds to 1000 seconds by rotating the dial marked “OFF DELAY” (see **WIRING DIAGRAMS pages 20-25**). The After-Pulse operation can also be enabled and disabled by placing the switch next to the timer dial marked “OFF DELAY” to the desired position.

RP DUST COLLECTOR
DUST COLLECTION TRAY INSTALLATION PROCEDURE

THIS KIT INCLUDES:

20 ea.	P3543	Self-Tapping Screws
12 ft.	P3686	3/16” x 1” Self-Adhesive Foam
86 in.	P1367	1” x 3/4” Foam (Placed at inside of Access Door)
1 ea.	38379-01	Dust Tray Weldment
2 ea.	38380-01	Tray Weldment
1 ea.	38378-01	Dust Tray Access Door
2 ea.	P1372	Door Latch

NOTE: Dust tray access door must be removed prior to assembly.

INSTALLATION:

1. Apply self-adhesive foam to the bolt hole flange on the dust tray.
2. Align the hole pattern on the dust tray flanges with the hole pattern on the underside of the unit.
3. Attach the dust tray, using twenty (20) self-tapping screws, to the unit.

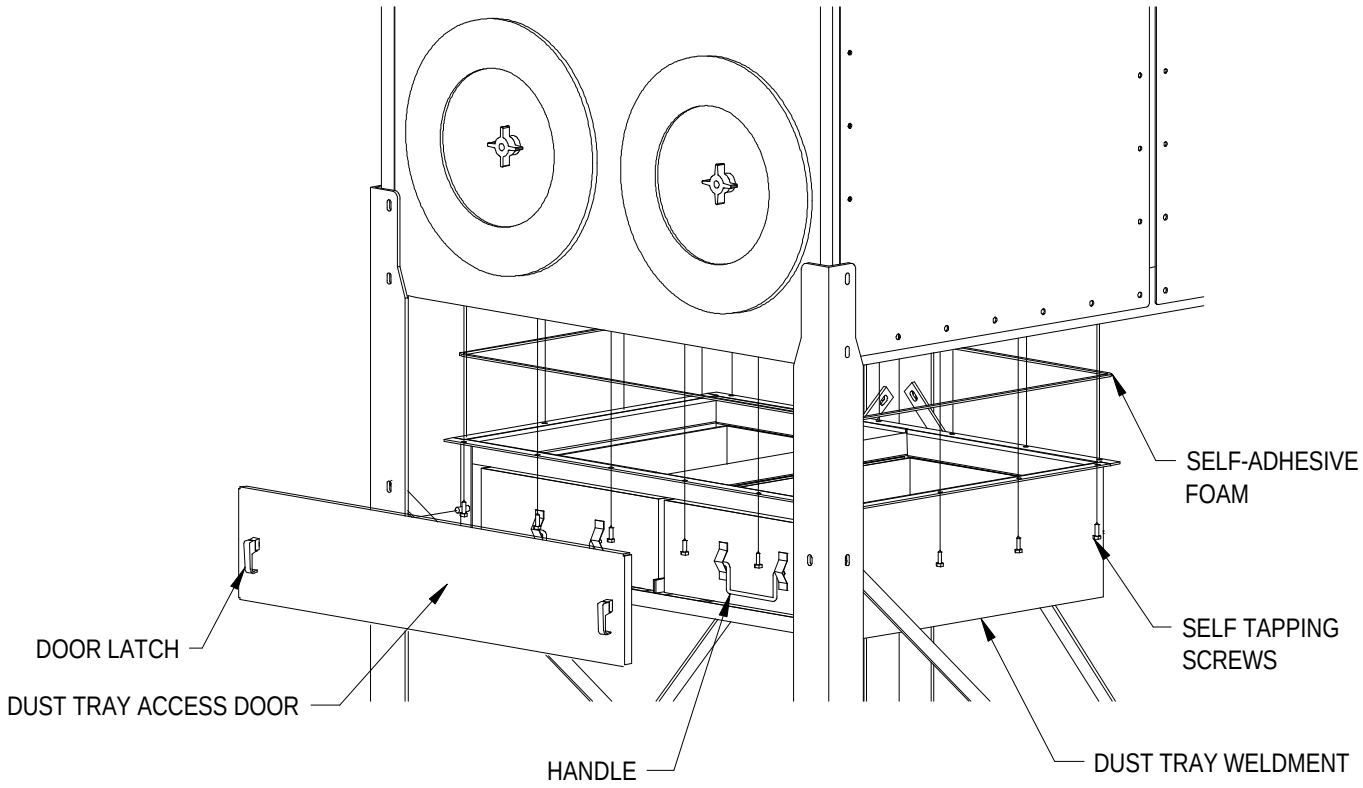


FIG. 6

RP DUST COLLECTOR
DUST COLLECTION HOPPER INSTALLATION PROCEDURE

THIS KIT INCLUDES:

20 ea.	P3543	Self-Tapping Screws
12 ft.	P3686	3/16” X 1” Self-Adhesive Foam
1 ea.	38222-01	Hopper Weldment

INSTALLATION:

1. Apply self-adhesive foam to the bolt hole flange on the hopper.
2. Align the hole pattern on the hopper flanges with the hole pattern on the underside of the unit.
3. Attach the hopper, using twenty (20) self-tapping screws, to the unit.

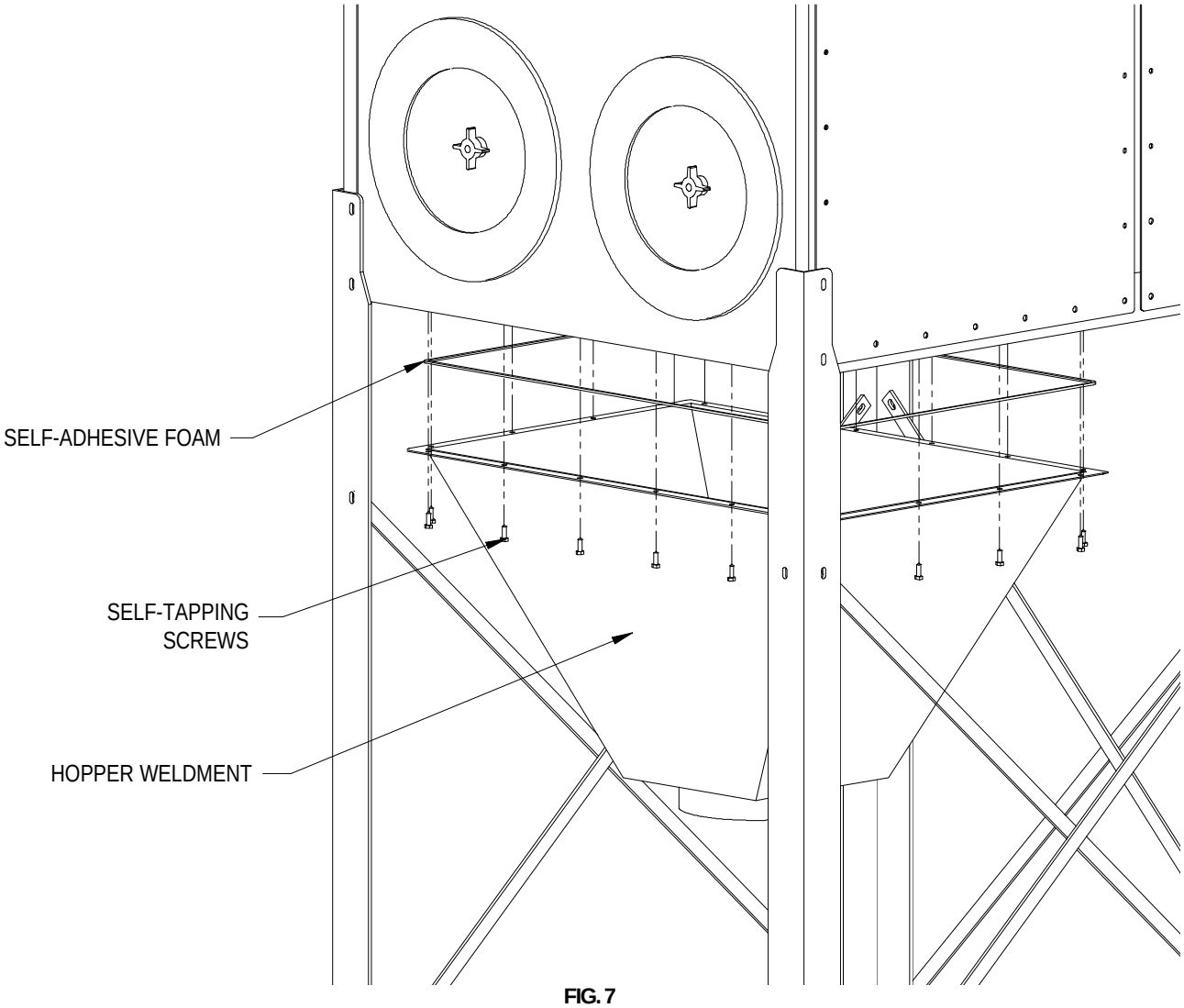


FIG. 7

RP DUST COLLECTOR
DUST COLLECTOR LEG BRACING INSTALLATION PROCEDURE

EACH KIT INCLUDES:

15 ea.	P222	5/16” HEX NUTS
15 ea.	P2614	5/16” Hex. Bolts
30 ea.	P3615	5/16” Flat Washers
30 ea.	P249	5/16” Lock Washers
2 ea.	38394-01	Short Leg Cross Braces
4 ea.	38394-02	Long Leg Cross Braces

INSTALLATION:

1. Straighten and plumb each individual leg.
2. Bolt each end of the cross braces to the legs.
3. Tighten all bolts until secure.

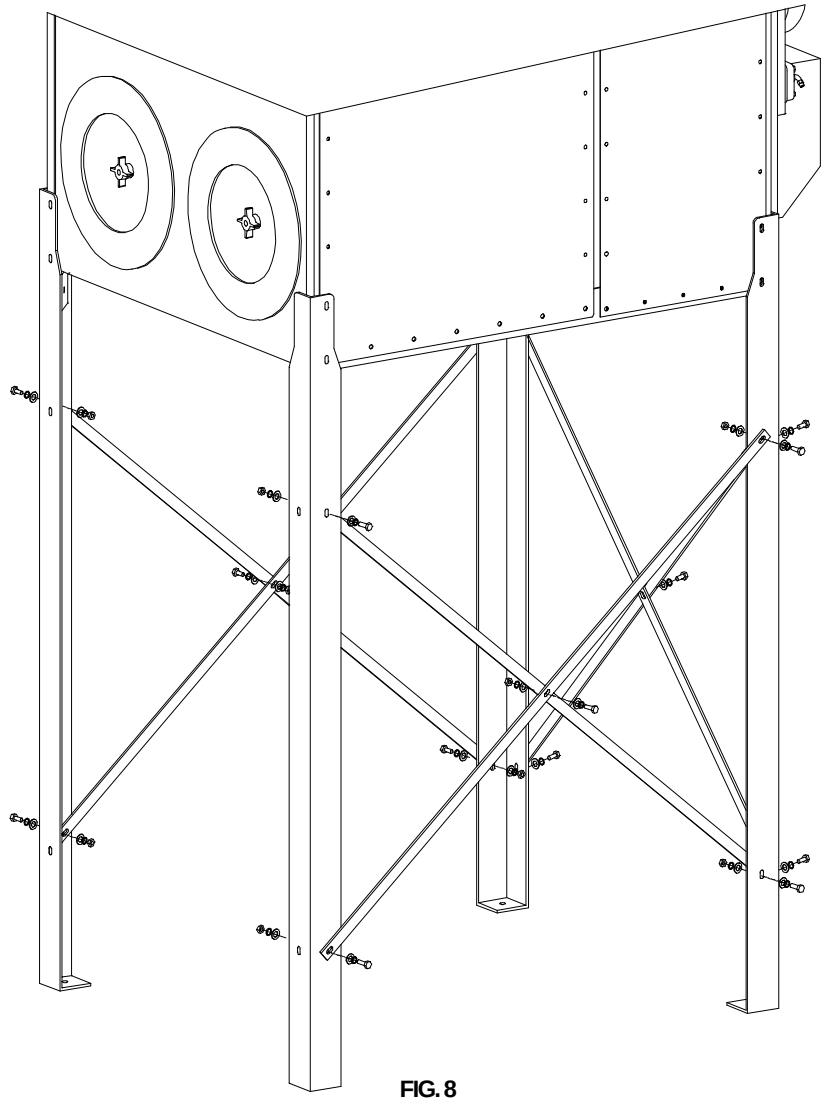


FIG. 8

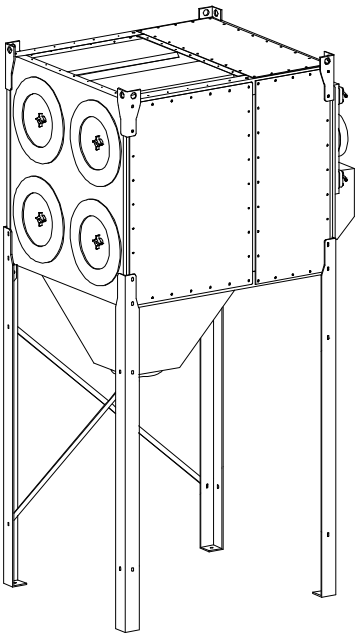
RP DUST COLLECTOR
SILENCER INSTALLATION PROCEDURE (64” LEGS ONLY)

THIS KIT INCLUDES:

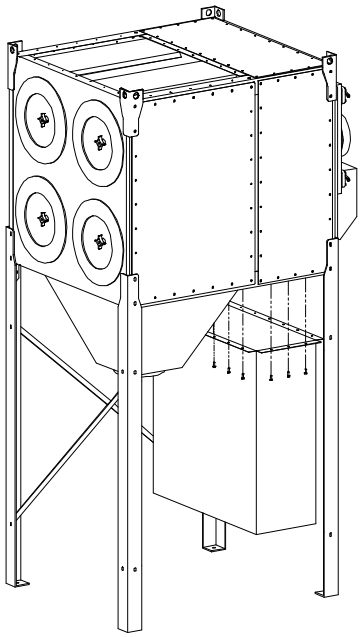
1 ea. 38275-01 RP Silencer Assembly

INSTALLATION:

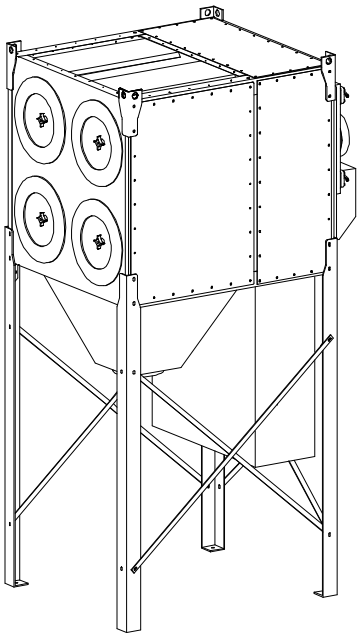
1. Remove silencer from skid and inspect for any possible damage incurred during shipping.
2. If cross bracing has been installed remove bracing on the motor blower side and one of the remaining two sides.
3. Remove all of the self-tapping screws on the exhaust grill with a 3/8" nut driver and save. **(Note: Do Not Remove Exhaust Grille)**.
4. Remove the two bolts in the exhaust grill that are closest to the legs with a 1/2" wrench and save.
5. Install the silencer with the screws and bolts removed in Steps 3 and 4. The side of the silencer with self-tapping screws should be on the side of the motor blower for installation.
6. Re-install the cross bracing removed from the side and the motor blower side in Step 2.



STEP 2



STEP 5



STEP 6

IMPORTANT: DO NOT REMOVE EXHAUST GRILLE FOR THIS INSTALLATION.

FIG. 9

RP DUST COLLECTOR
MAGNEHELIC KIT INSTALLATION PROCEDURE

THIS KIT INCLUDES:

1 ea.	38294-01	Magnehelic Mounting Bracket
1 ea.	P3755	0-10” W.C. Magnehelic Gauge
2 ea.	P2098	1/8” Male x 1/4” Barb Fitting
4 ea.	P3543	1/4”-14 x 1” Self-taping Screw
10’	P1848	1/4” Clear Tubing

INSTALLATION:

1. Remove parts from package and inspect for any possible damage incurred during shipping.
2. Turn off dust collector and disconnect power to the unit.
3. Mount the Magnehelic Gauge into the Magnehelic Mounting Bracket and place the (2) male barb fittings in the pressure ports located on the side of the Magnehelic Gauge.
4. Also use the two pressure port plugs supplied with the Magnehelic Gauge on the two ports located on the backside of the gauge.
5. Mount the bracket using the (4) 1/4” self-taping screws.
6. Using 1/4” clear tubing (Additional length can be purchased) connect the “LOW” pressure port on the gauge to the clean air plenum and “HIGH” pressure port to the dirty air plenum.
7. Reconnect the power to the unit and start the dust collector.

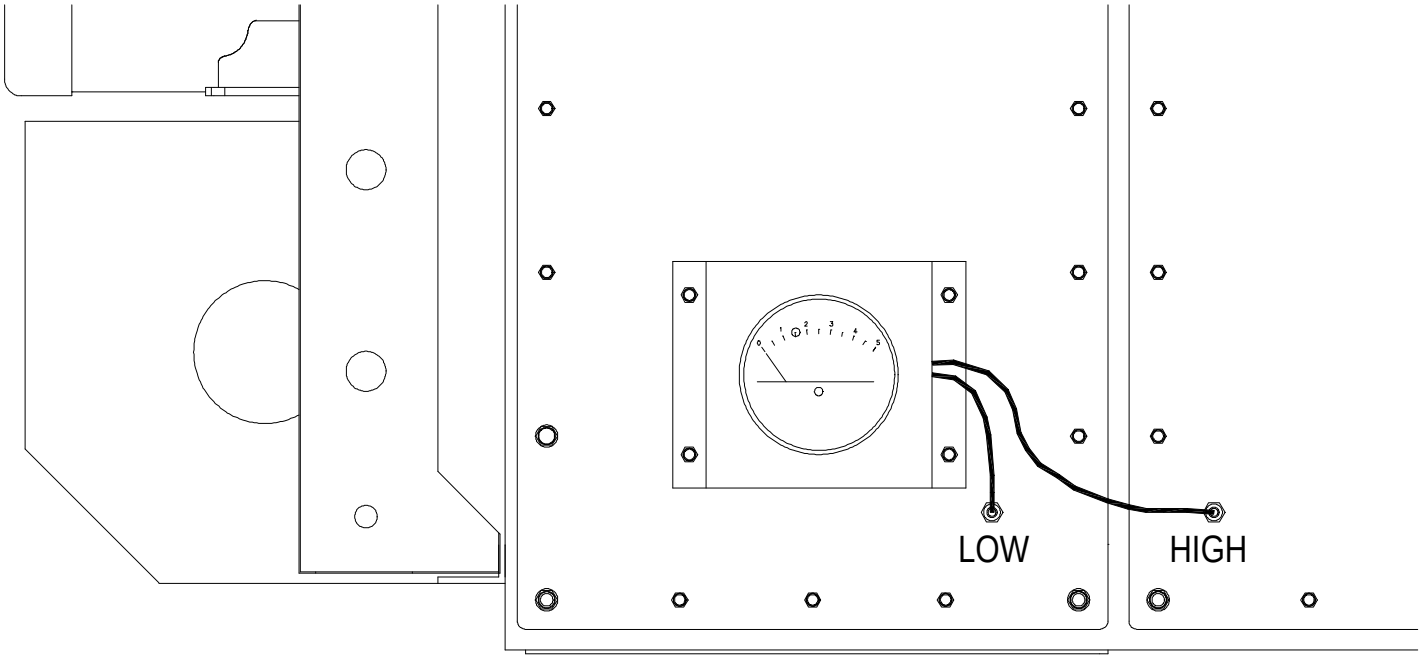


FIG. 10

RP DUST COLLECTOR
PHOTOHELIC KIT INSTALLATION PROCEDURE

THIS KIT INCLUDES:

1 ea.	38293-01	Photohelic Mounting Bracket
1 ea.	P3643	0-10” w.c. Photohelic Gauge
2 ea.	P2098	1/8” Male x 1/4” Barb Fitting
4 ea.	P3543	1/4”-14 x 1 Self-taping Screw
10’	P1848	1/4” Clear Tubing

NOTE: When using a Photohelic on a dust collector installed outdoors, the gauge can not be mounted on the unit. It must be mounted indoors. The gauge is not rated for outdoor use.

INSTALLATION:

1. Remove parts from package and inspect for any possible damage incurred during shipping.
2. Turn off dust collector and disconnect power to the unit.
3. Remove the plastic cover on the back of Photohelic Gauge.
4. Mount the Photohelic Gauge into the Photohelic Bracket and place the (2) male barb fittings in the pressure ports located on the side of the Photohelic.
5. Remove cover from electrical box so that wiring diagram on back of cover can be used.
6. Remove the two red wires that are connected to the Timer Board Pressure Switch Input and Relay CR1.
7. Wire the Photohelic Gauge as the electrical diagram shows in Detail “A” (see pages 20-25) using the 3/4”-inch conduit opening on the Photohelic and the 3/4”-knockout located on the electrical box under the Start/Stop Switches of the dust collector. (Wire and conduit supplied by others.)
8. Replace the cover back onto the Photohelic Gauge and mount the bracket using the (4) 1/4” self-taping screws.
9. Using 1/4” clear tubing (Additional length can be purchased) connect the “LOW” pressure port on the gauge to the clean air plenum and “HIGH” pressure port to the dirty air plenum.
10. You must place the enable/disable switch located on the timer board to the “DISABLE” position. This will disable the after-pulse mode of the timer board.
11. Replace the cover on the electrical box and reconnect the power to the unit.
12. The right set point dial of the gauge should be positioned at the filter differential set point you want the Roto-pulse system to be enabled. The left set point dial should be positioned at the filter differential set point you want the Roto-pulse system to be disabled.

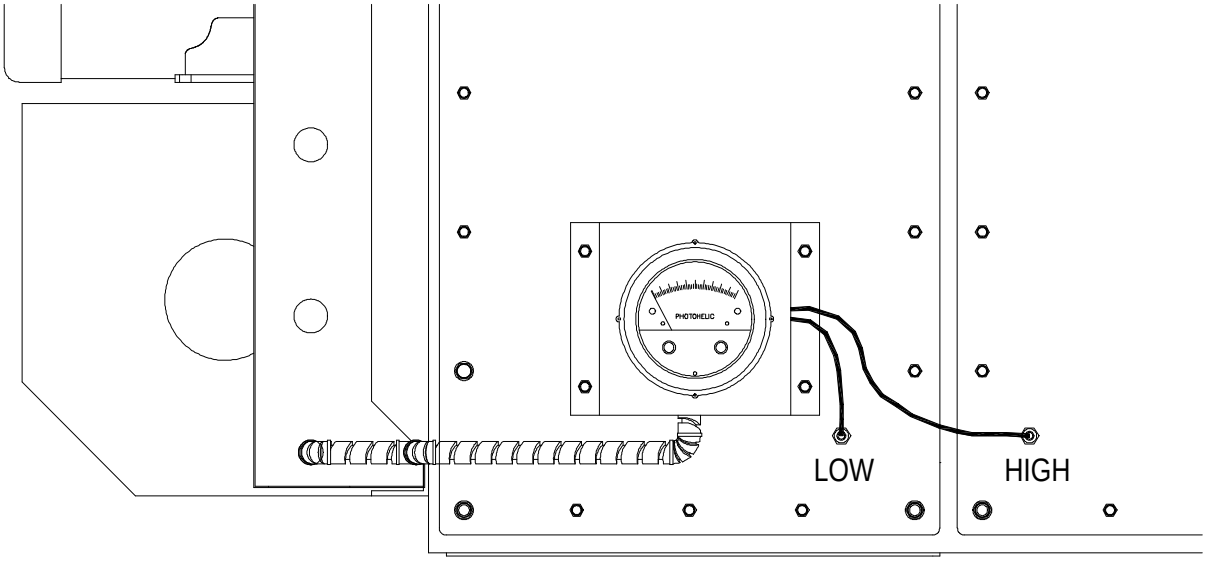


FIG. 11

RP DUST COLLECTOR
INLET PLENUM INSTALLATION PROCEDURE

THIS KIT INCLUDES:

1 ea.	38292-01	RP Inlet Plenum Assembly
1 ea.	P3653	Hardware Package - Containing:
4 ea.	P261	5/16" -18 X 1/4 Bolt
4 ea.	P249	5/16" Lock Washer
4 ea.	P233	5/16" Flat Washer
24 ea.	P2543	1/4" - X 1 Self-Tapping Screw
11 ea.	P3686	3/16" X 1" Self-Adhesive Foam

INSTALLATION:

1. Remove inlet plenum from skid and inspect for any possible damage incurred during shipping.
2. Place self-adhesive foam on the outside of the inlet plenum hole pattern.
3. Place inlet plenum on top of dust collector and using the four (4) bolts, flat washers and lock washers provided to attach the inlet plenum at the four corners.
4. Use the twenty-four (24) self-tapping screws to complete the installation of the inlet plenum.
5. Three cap plates can be removed and reinstalled to allow you to use the opening best suited for your installation.

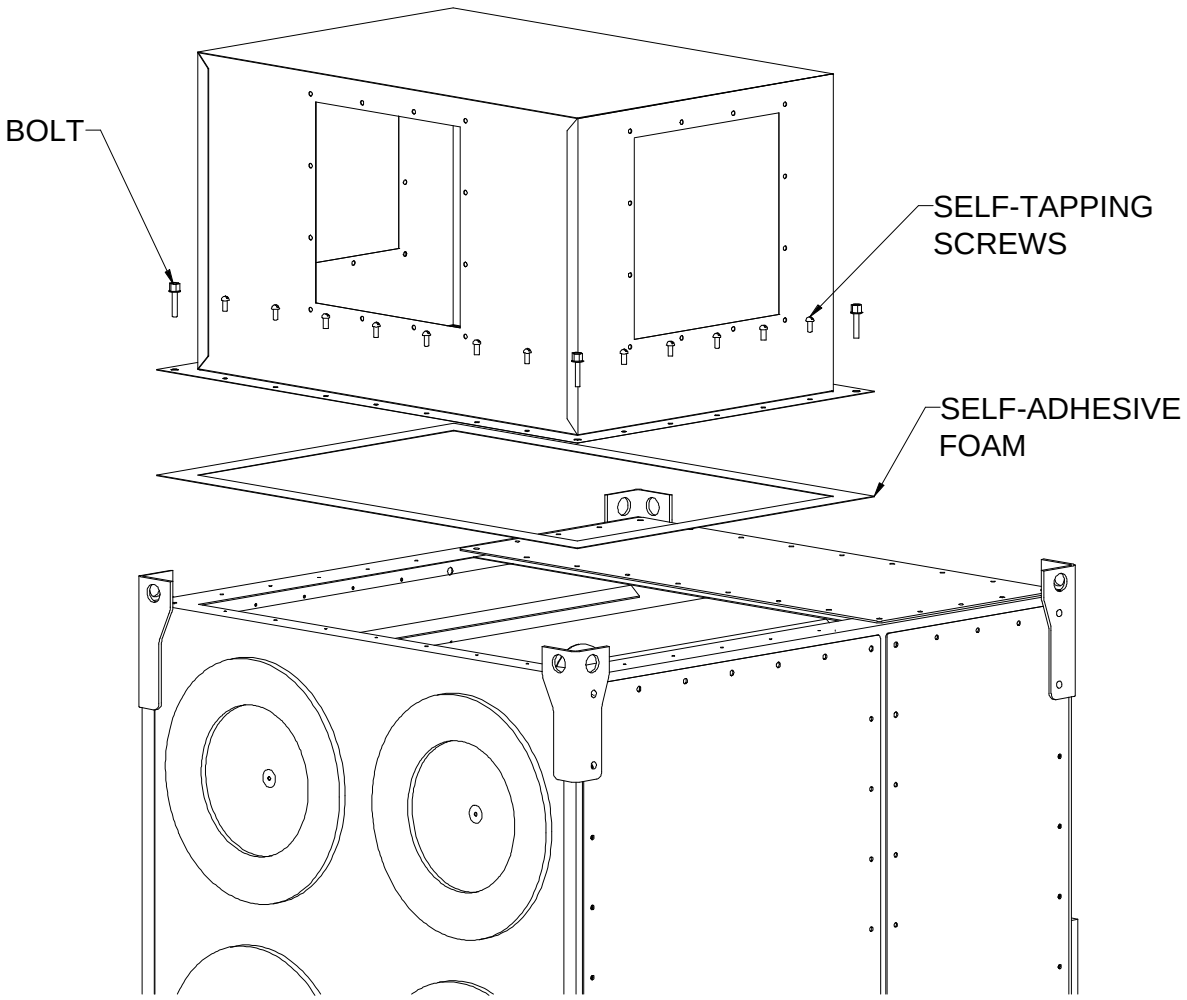


FIG. 12

RP DUST COLLECTOR
BARREL LID KIT INSTALLATION PROCEDURE

THIS KIT INCLUDES:

1 ea.	38229-01	Barrel Lid
2 ea.	P3519	10” Hose Clamp
1 ea.	P3553	10” Flex Hose

INSTALLATION:

1. Remove parts from box and inspect for any possible damage incurred during shipping.
2. Using the 10” hose clamp attach the 10” flex hose to the collar on the barrel lid
3. With the remaining 10” hose clamp attach the barrel lid flex hose to the collar on the bottom of the dust collector hopper.
4. With barrel lid installed a 55 gallon barrel (not provided) can be placed under the barrel lid for material collection.

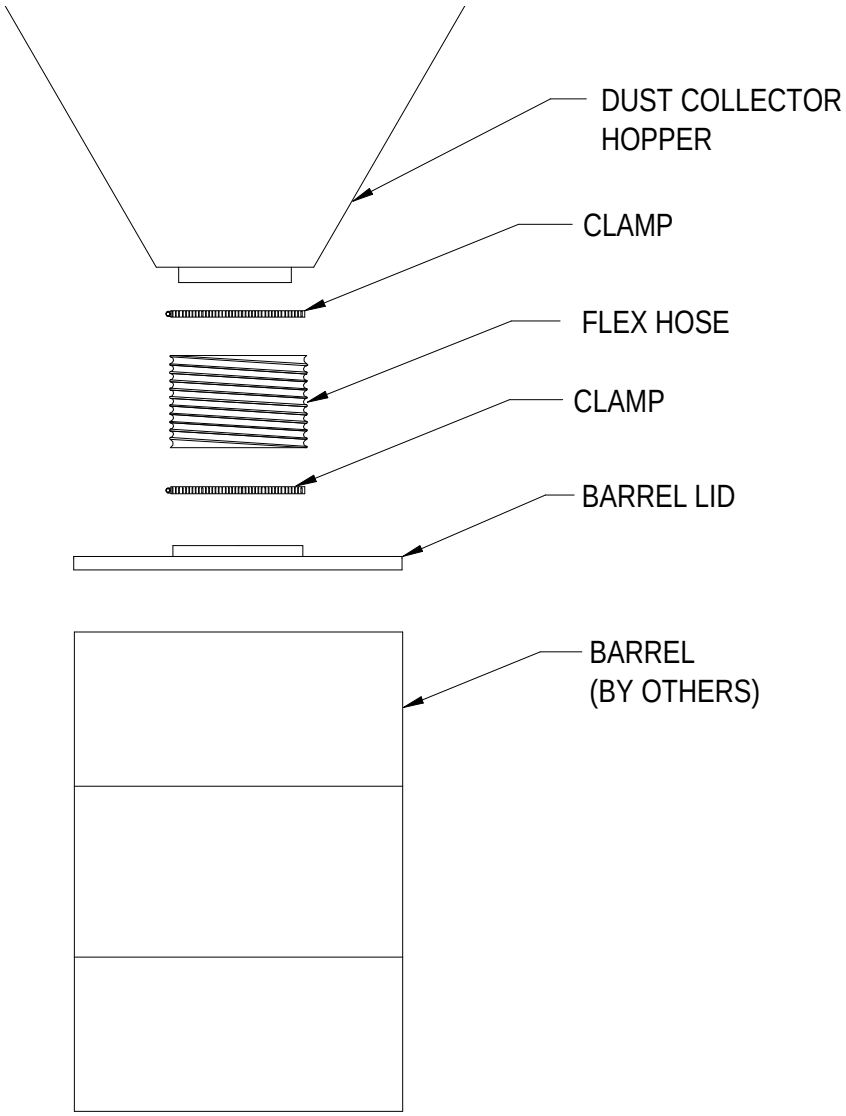


FIG. 13

RP DUST COLLECTOR
BARREL LID KIT INSTALLATION PROCEDURE
(EXPLOSION VENT KIT)

THIS KIT INCLUDES:

1 ea.	38229-02	Barrel Lid
2 ea.	P3519	10” Hose Clamp
1 ea.	P3553	10” Flex Hose
4 ea.	38327-01	4 - Prong Knob

INSTALLATION:

1. Remove parts from package and inspect for any possible damage incurred during shipping.
2. Using the 10” hose clamp attach the 10” flex hose to the collar on the barrel lid
3. With the remaining 10” hose clamp attach the barrel lid flex hose to the collar on the bottom of the dust collector hopper.
4. With barrel lid installed a 55 gallon barrel (not provided) can be placed under the barrel lid for material collection.
5. The lid should be clamped to the barrel by tightening the four knobs.

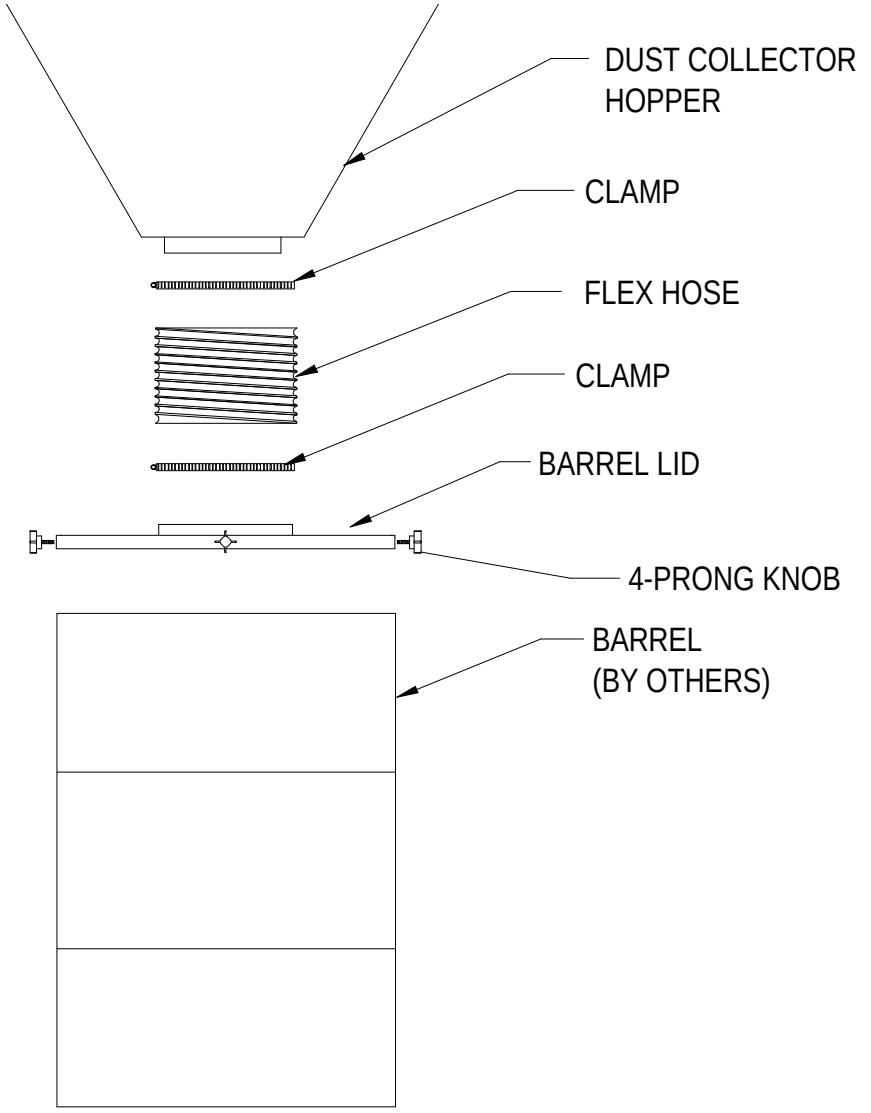


FIG. 14

RP DUST COLLECTOR
MOTOR SHROUD INSTALLATION

THIS KIT INCLUDES:

1 ea.	38324-01	Motor Shroud
15 ft.	P3553	Self-Adhesive Foam
12 ea.	P3543	Self-Tapping Screws

INSTALLATION:

1. Remove parts from package and inspect for any possible damage incurred during shipping.
2. Examine the vertical braces on each side of the motor that run the full length of the motor blower assembly. If each of the vertical braces have six (6) 7/32” diameter holes proceed to Step 6. If the braces do not have the six (6) 7/32” diameter holes proceed to Step 3.
3. Place the motor shroud, as shown in Figure 15 below, over the motor having located the slotted hole of the motor shroud on the right hand side. This will allow the wiring conduit to clear the motor shroud.
4. With the shroud in place mark the centers of the six (6) holes in each vertical brace. On the bottom right hand side of the shroud the electrical box will may prevent you from marking two (2) of the holes. The two (2) holes may be omitted.
5. With the holes having been marked remove the motor shroud and use a 7/32” diameter drill bit to drill through the braces.
6. Apply the self-adhesive foam to the vertical braces as shown in the picture below.
7. Re-install the motor shroud around the motor and attach using the twelve (12) self-tapping screws provided.
8. The four bolts and small cover on the back of the motor shroud may be removed to allow you to check for proper rotation of the motor blower. When proper rotation has been checked re-install the cover.

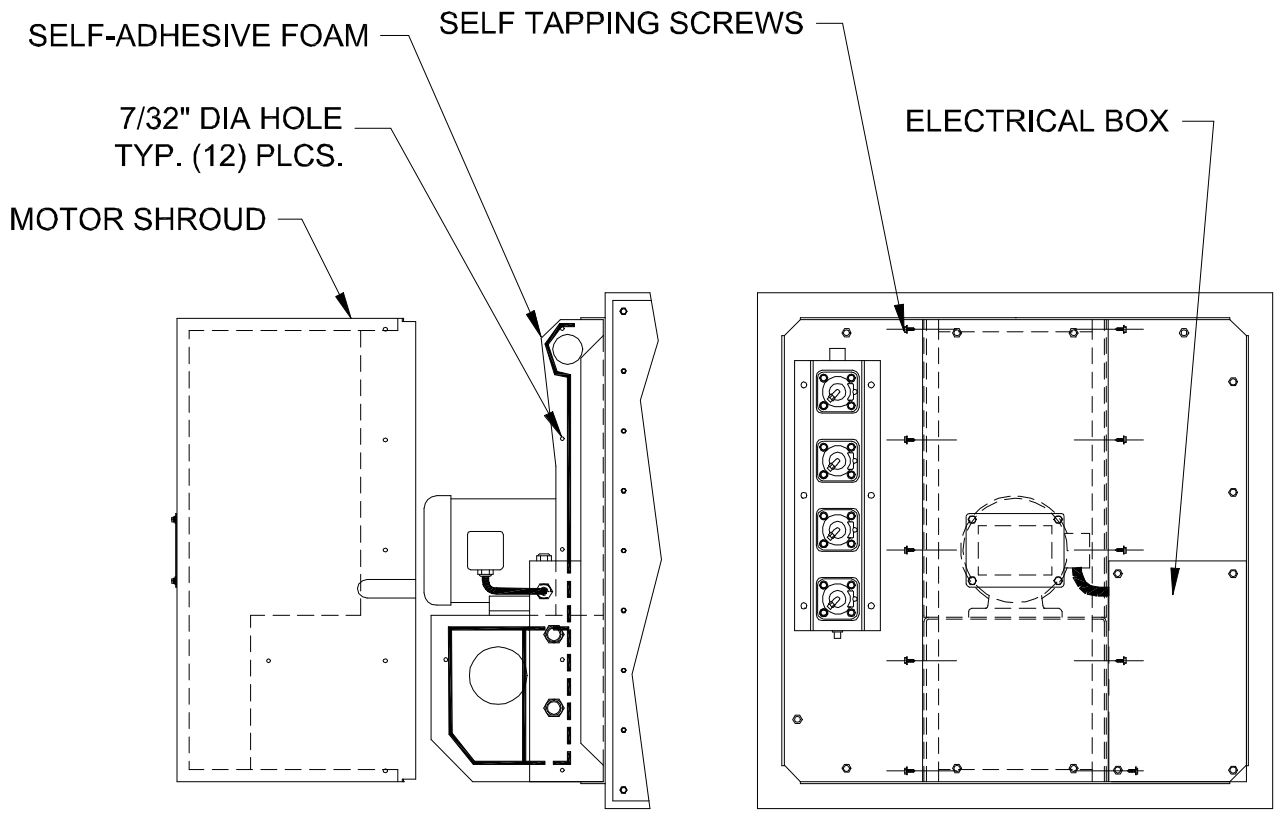


FIG. 15

RP DUST COLLECTOR
AFTER FILTER KIT INSTALLATION

THIS KIT INCLUDES:

1 ea.	38364-01	After Filter Assembly
1 ea.	P3639	Hepa Filter
1 ea.	Hardware Package - Containing	
6 ea.	P3543	1/4 - 1/4 x 1 Self-Tapping Screw

INSTALLATION:

1. Remove parts from package and inspect for any possible damage incurred during shipping.
2. Remove leg supports from back of unit.
3. Remove the bolts and screws from exhaust grille (see **FIG. 16A**).
4. Align holes from After Filter with holes located on the exhaust grille.
5. Attach After Filter with existing bolts, screws, and the six (6) self-tapping screws provided (see **FIG. 16B**).
6. Reattach the leg supports.
7. Discard extra screws.

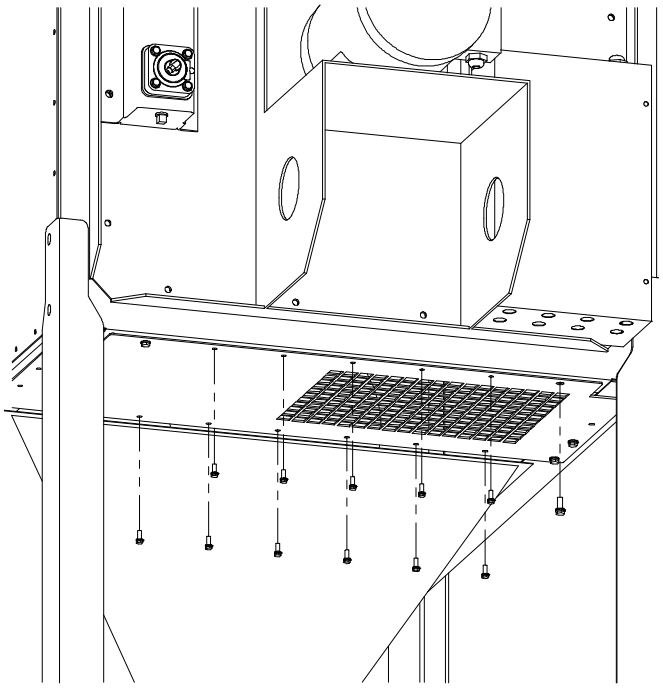


FIG 16A

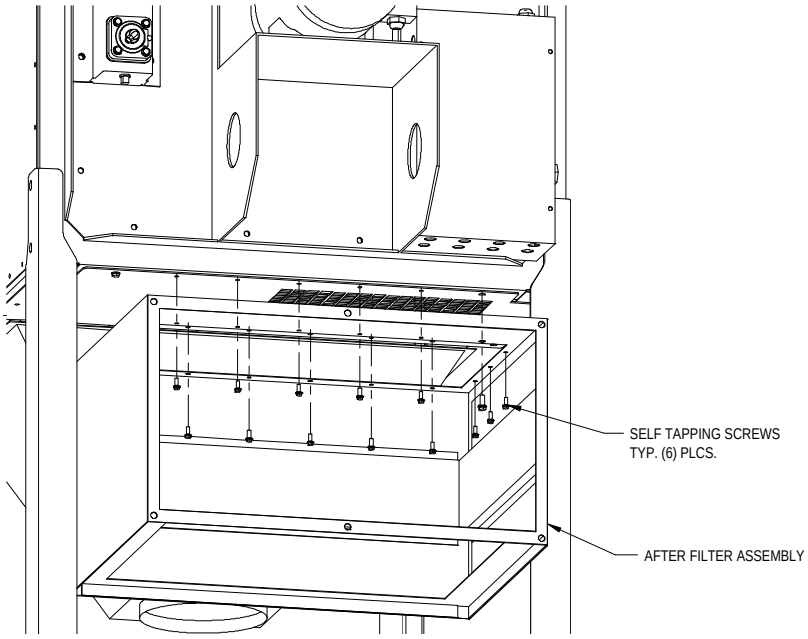


FIG. 16B

RP4 WIRING DIAGRAM

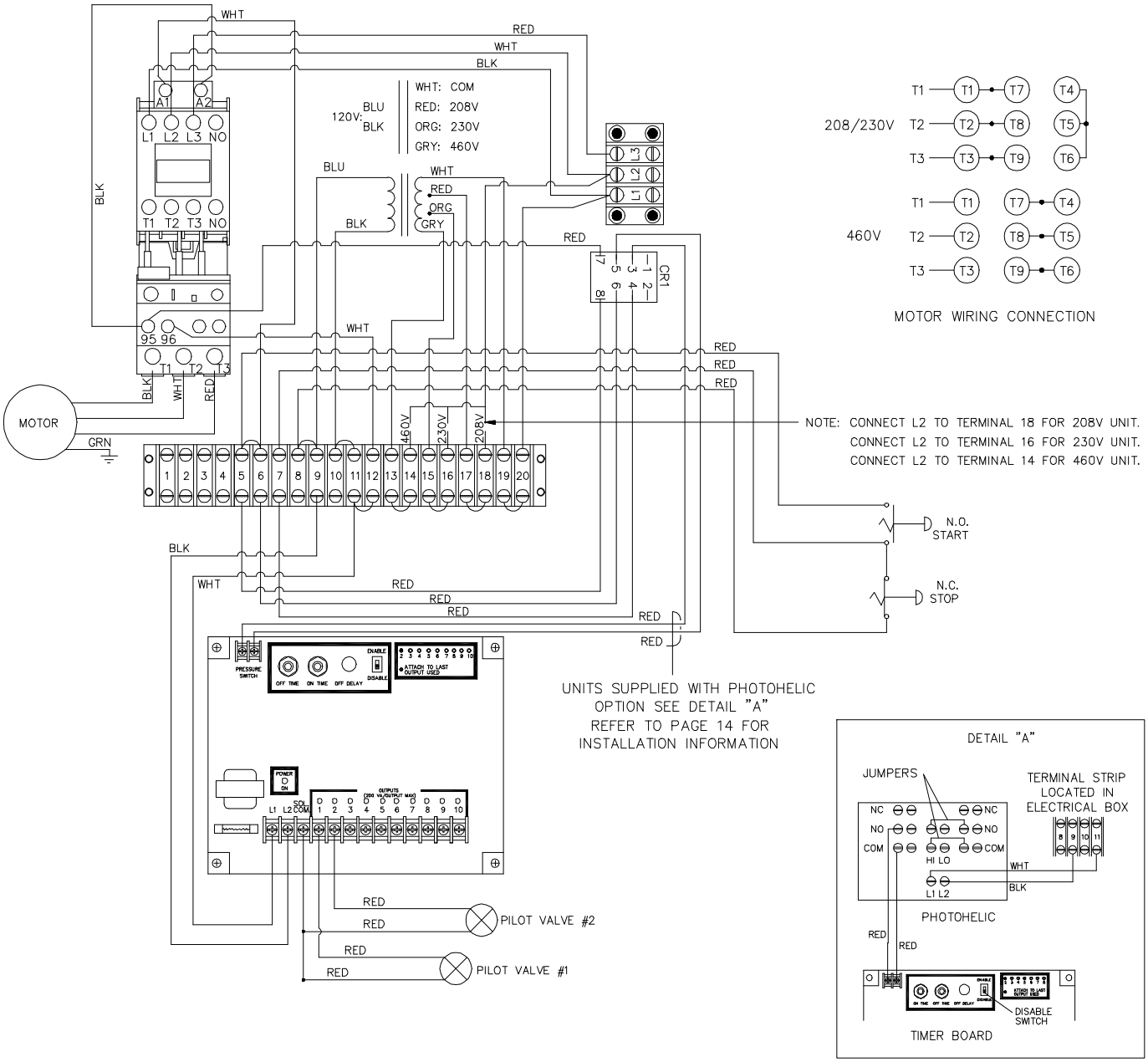


FIG. 17

RP6 WIRING DIAGRAM

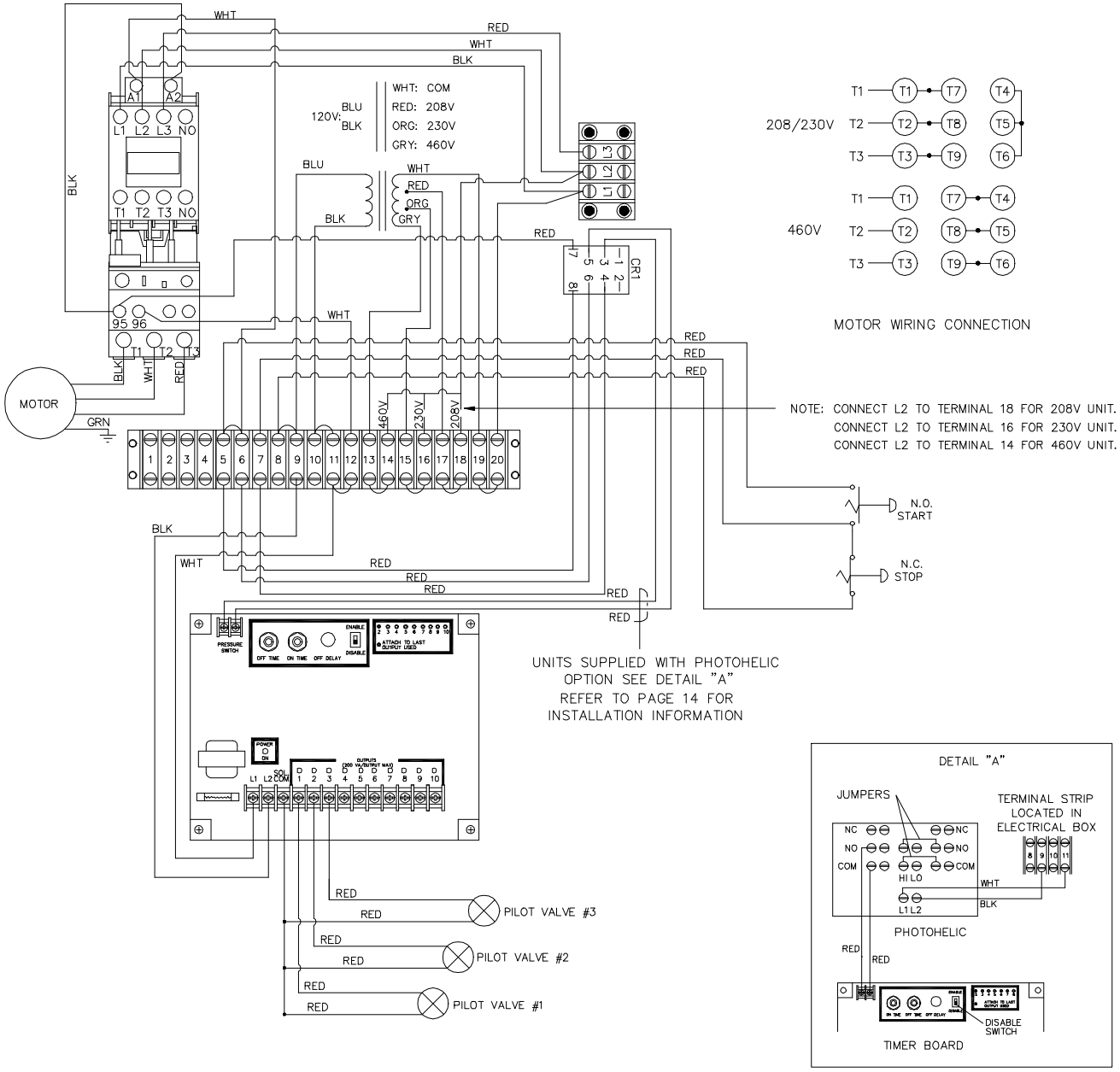


FIG. 18

RP8 WIRING DIAGRAM

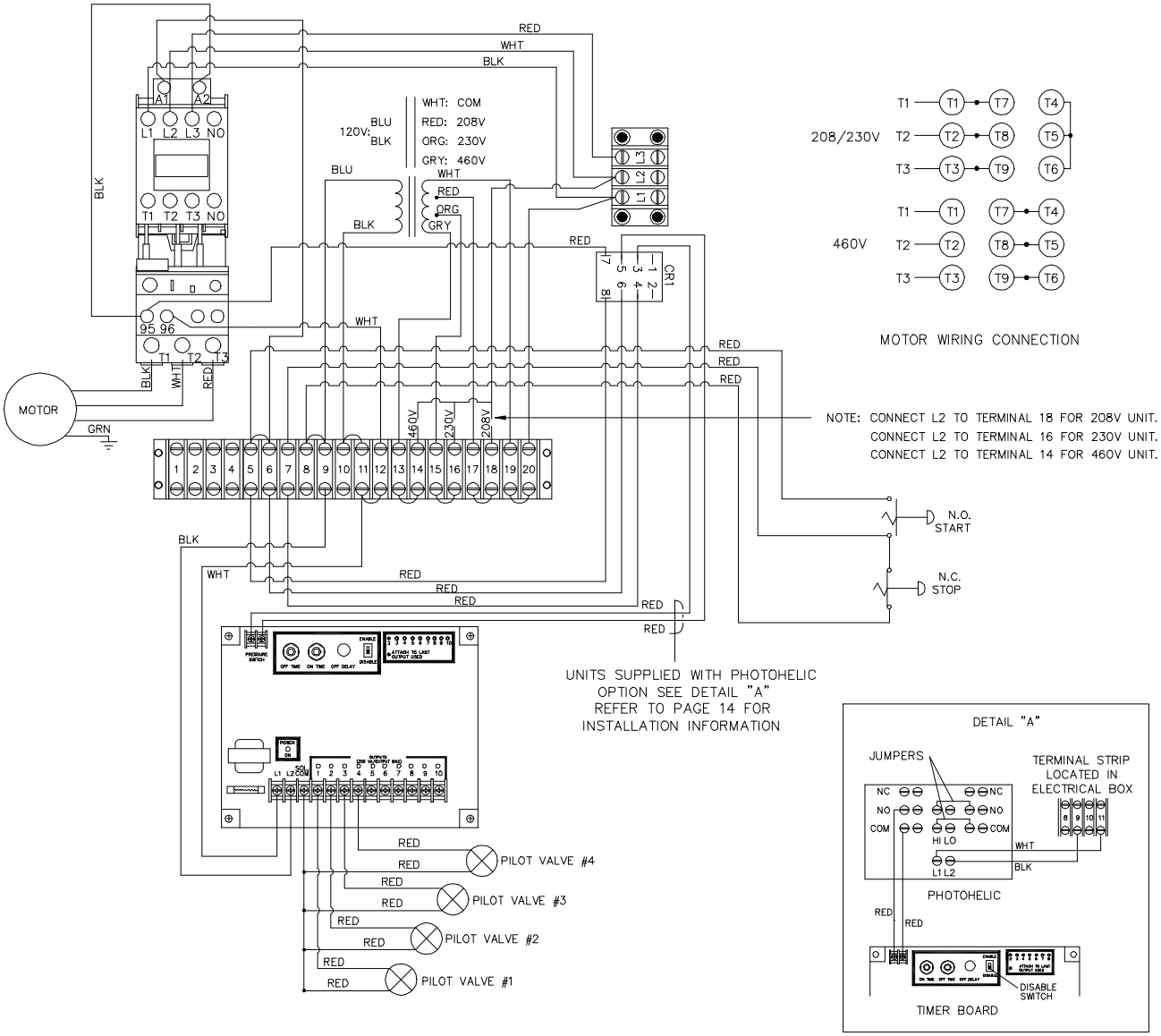


FIG. 19

RPO4 WIRING DIAGRAM

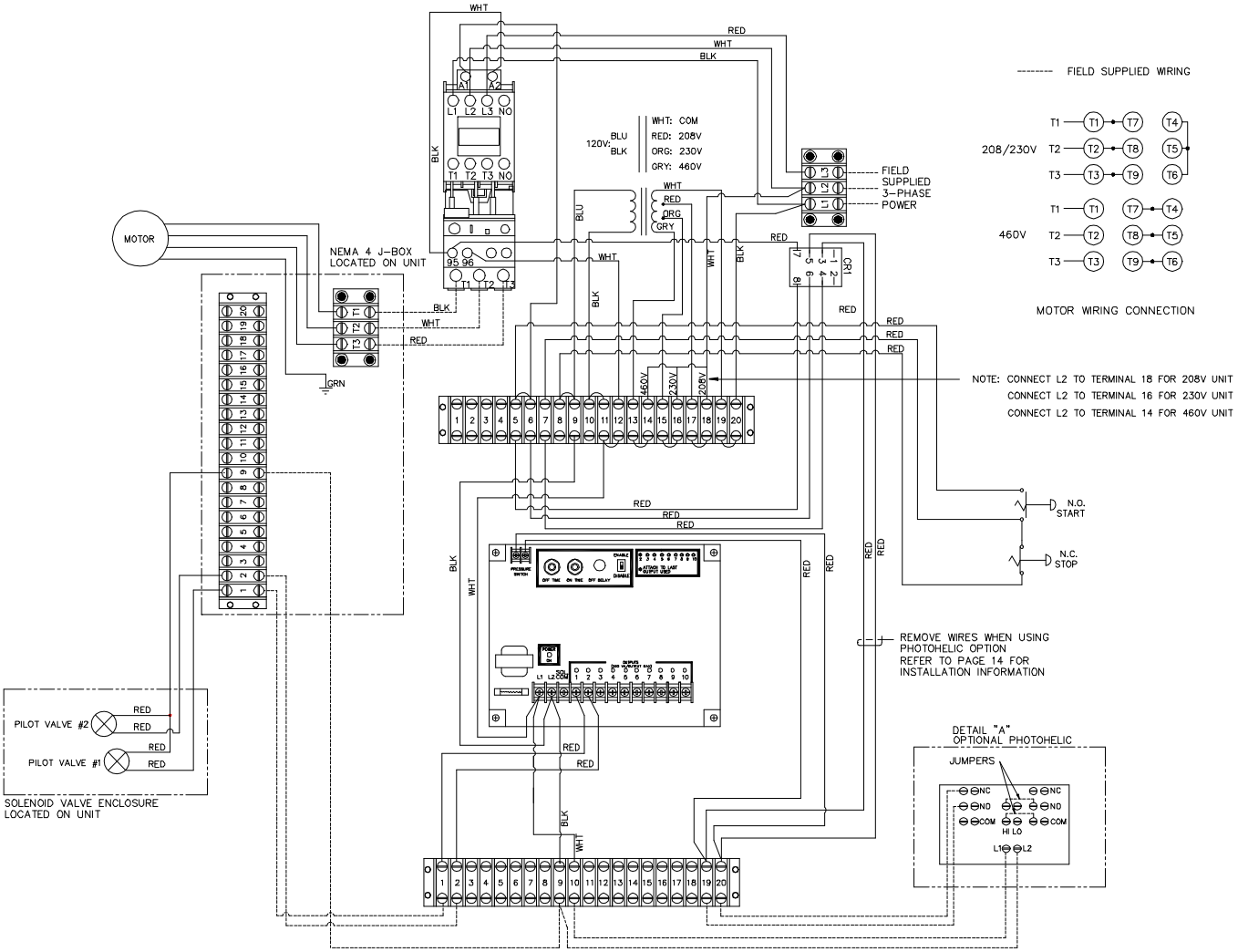


FIG. 20

RPO6 WIRING DIAGRAM

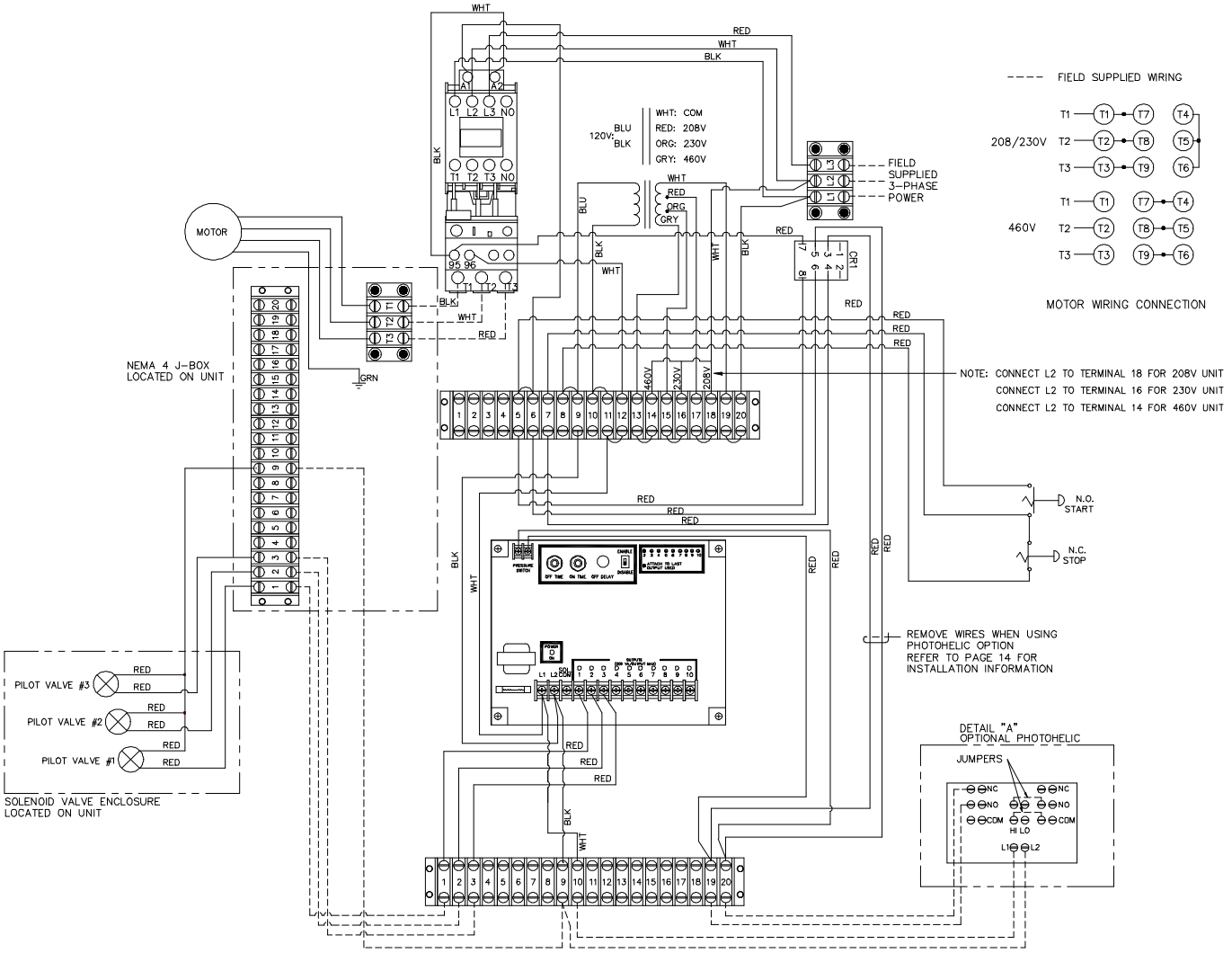


FIG. 21

RPO8 WIRING DIAGRAM

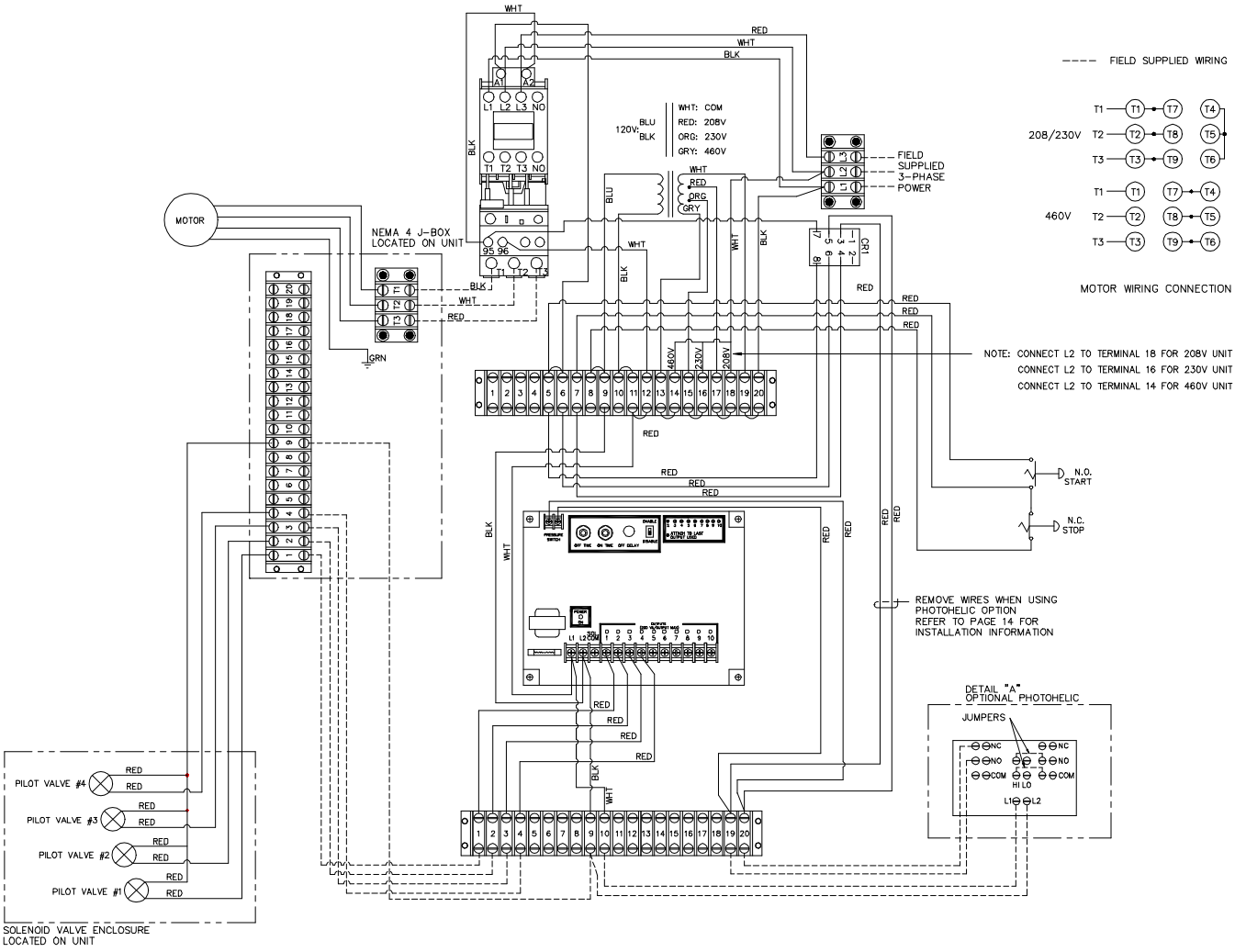


FIG. 22

RP PARTS LIST

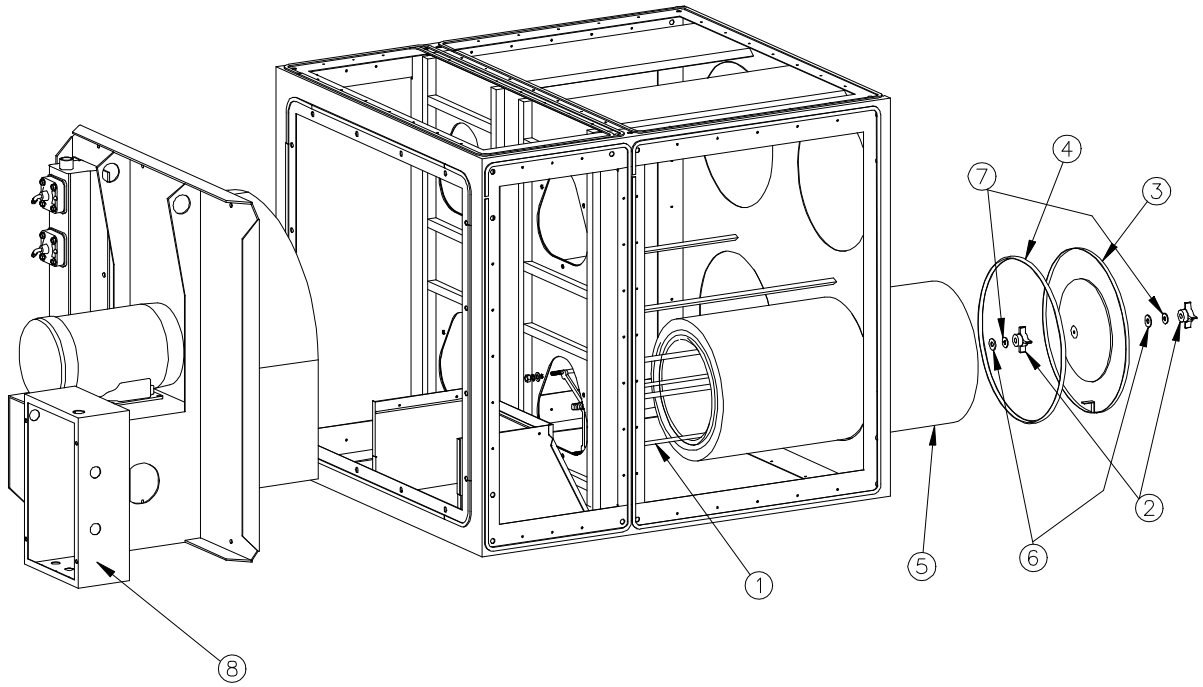


FIG. 23
(THE ABOVE SHOWN IS A RP4 UNIT)

ITEM	PART NO.	DESCRIPTION
1	36720-11	Filter Support Assembly (Roto-Pulse)
2	P3649	4 - Prong Knob (8 ea. required)
3	38204-01	Cartridge End Caps
4	38342-01	Door Seal
5	P3752	Cellulose Cartridge Filter
	P3486	Spun - Bound Polyester Cartridge Filter
6	P3559	Rubber Washer
7	P3314	Washer
8	38209-01	Electrical Box
9	P2099	3/4" Close Nipple
10	P3563	3/4" Galvanized Tee
11	P3585	3/4" NPT x 5/8" Barb
12	P3411	1" Hose Clamp
13	P3403	5/8" Air Hose
14	38258-01	Lifting Bracket
	38258-02	Lifting Bracket
15	38344-01	(2) Valve Manifold
	38344-02	(3) Valve Manifold
	38345-03	(4) Valve Manifold
16	38343-01	1" Diaphragm Valve
16A	P3098	Diaphragm Seal
17	P3735	1/4" 90° Presto Lock
18	36030-02	Disk Pad (small)
19	P3594	3/8" x 1/2" x 3/8" Bearing
20	P2286	Nylon Shoulder Washer
21	P2285	Compression Spring
22	P2284	Pivot Bolt
23	36713-06	Filter Support Weldment
24	P249	5/16" Lock Washer Pltd.
25	P222	5/16" - 18 Pltd. Hex Nut

ITEM	PART NO.	DESCRIPTION
26	36730-06	Roto Tube Weldment
27	P3413	1/2" Male x 5/8" Barb
28	P3595	17/32" x 5/8" x 3/4" Bearing
29	P3734	1/4" O.D. Air Hose
30	P3118	Pilot Valve
NOT SHOWN	39029-01	Solenoid Repair Kit
31	P3532	Stop Push Button
	P3531	Stop Legend Plate
	P3529	N.C. Contact
32	P3874	Timer Board
33	P3532	Start Push Button
	P3530	Start Legend Plate
	P3528	N.O. Contact
34	P1754	Control Transformer
35	P3910	5hp Starter
	P3912	7-1/2hp Starter
	P3913	10hp Starter
36	P3915	5hp / 7-1/2hp / 10hp 460VOverload Protector
	P3916	5hp 208-230V Overload Protector
	P3916	7-1/2hp 208/230V Overload Protector
	P3917	10hp 208/230V Overload Protector
NOT SHOWN	38275-01	Silencer
NOT SHOWN	38324-01	Motor Shroud
NOT SHOWN	38297-01	Magnhelic Kit
NOT SHOWN	P3099	Diaphragm Kit
NOT SHOWN	38296-01	Photohelic Kit
NOT SHOWN	38292-01	Inlet Plenum
NOT SHOWN	38284-01	Barrel Lid Kit
37	P3085	1/4" Presto Lock

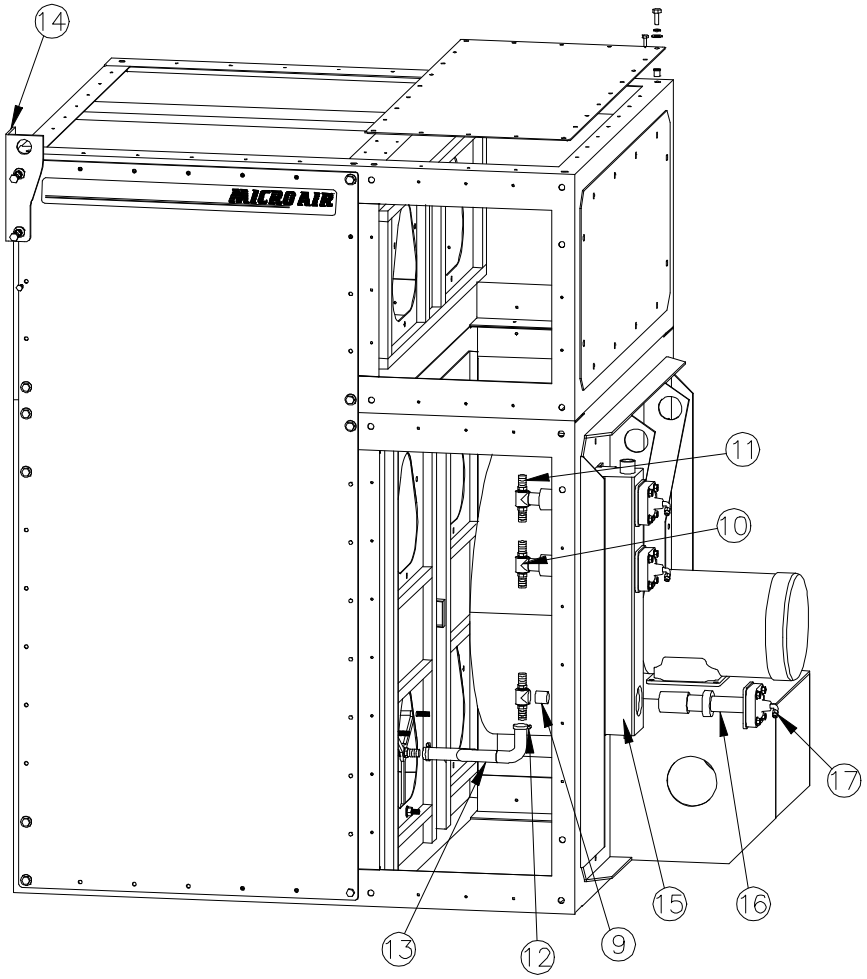


FIG. 24
(THE ABOVE SHOWN IS A RP6 UNIT)

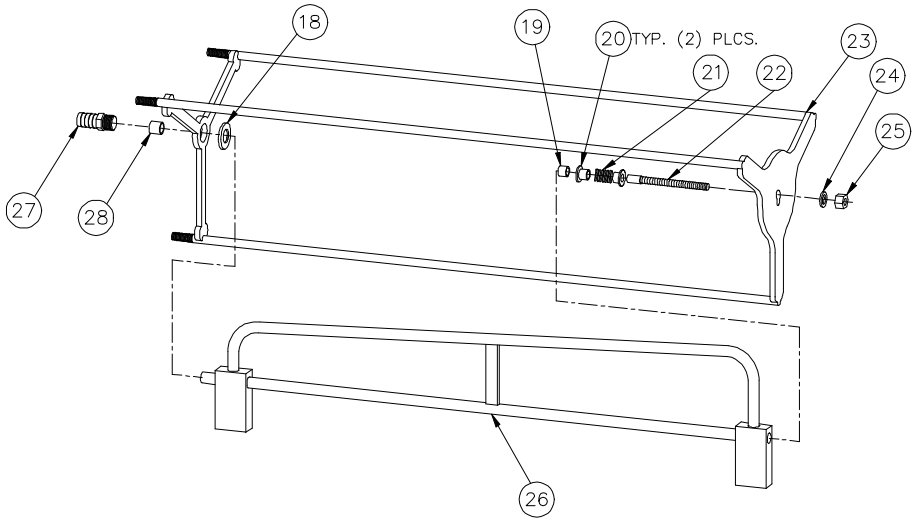


FIG. 25

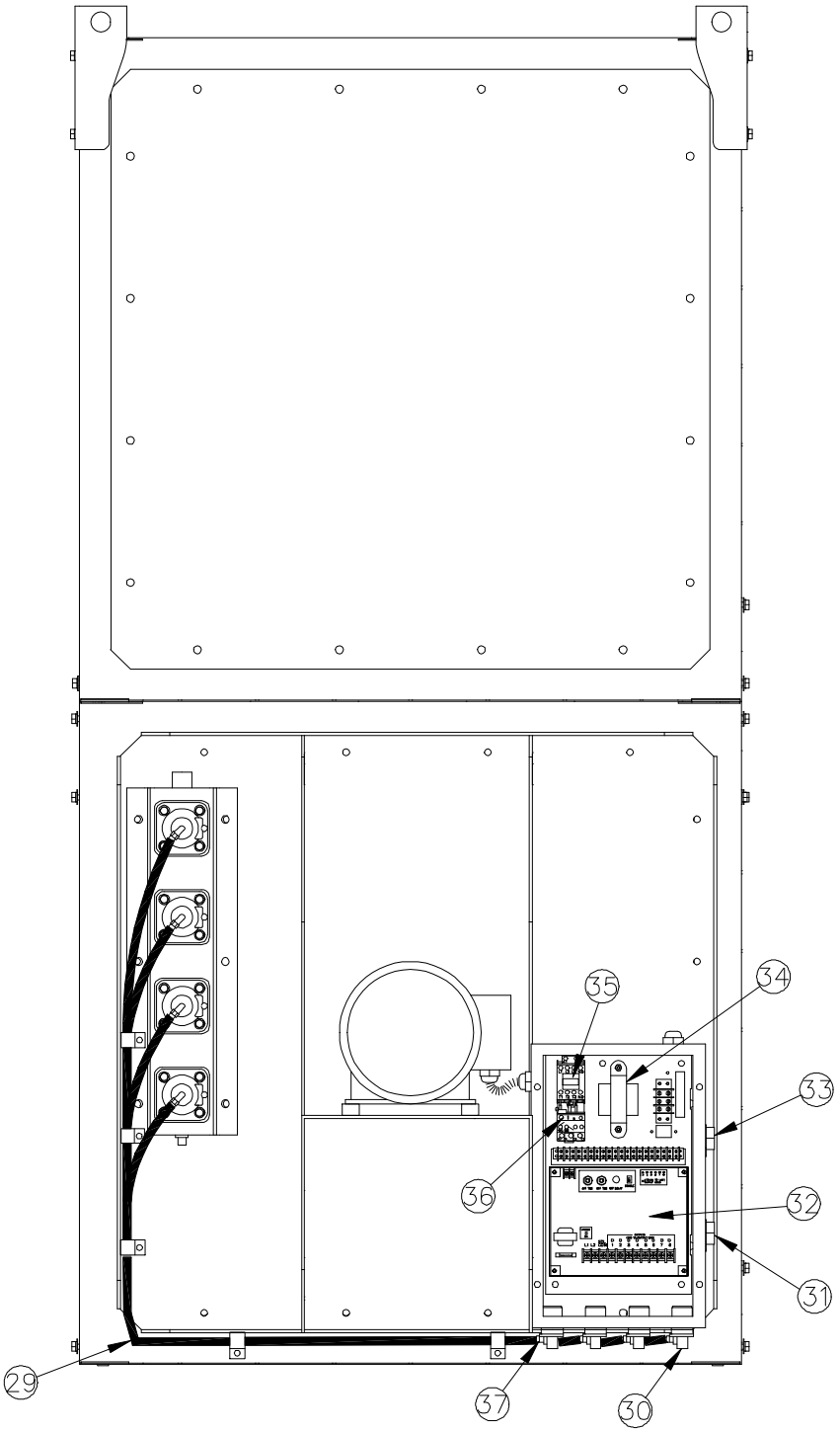


FIG. 26
(THE ABOVE SHOWN IS A RP8 UNIT)

NOTES

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NOTES

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