MICRO AIR

CLEAN AIR SYSTEMS

Model TM1000

OWNER'S MANUAL

CAUTION

READ COMPLETE INSTRUCTIONS BEFORE OPERATING.
PLEASE FILE FOR FUTURE REFERENCE.

MODEL TM1000 SPECIFICATIONS

Input Volts: 120/208-230/460 VAC, 60 Hz.

Max. Current: 12 VAC 17.0 amps
208-230 VAC 5.6 amps
460 VAC 2.8 amps

Dimensions: 44-1/2" H x 25-1/2" W x 32-1/2" L

Filter Area: 2 each high efficiency cartridges with 142 ft^2 of media per cartridge (284 ft^2 total).

Back-flush: 2.0 SCF at 90 psi. maximum.

Cleaning: A ¼" NPT male nipple is factory installed for attachment to shop air.

Dust Holding Trays: 2-5/8" H x 5-3/4" W x 17-1/2" L.

External Arm: 8 ft. or 10 ft. long, 6" or 8" diameter steel tube with 350 degree movement and 2 joints.

Shipping Wt.: 350 lbs. (Actual Wt. 300 lbs.)

PACKAGE CONTENTS

1 ea. TM1000 Base Unit with Owners Manual

OPTIONS (These items are separately cartoned)

1 ea. 6" or 8" dia., 8' or 10' Arm Assembly

1 ea. 3" dia., 8' Dual Arm Assembly

1 ea. Down Draft Table

1 ea. Back Draft Hood

1 ea. Magnetic Hood Assembly with 15' or 25' Hose

PRE-OPERATING INSTRUCTIONS

NOTE: The following instructions will vary depending on options received.

1. Cut the shipping straps, remove the carton and plastic wrapping from the unit.
2. Remove the TM1000 from the shipping skid and set on level surface.
3. Open the carton containing the arm assembly. Carefully remove the arm assembly(s).
4. Install arm assembly onto base unit (See **FIG. 1**).

WARNING: For 8" dia. 10' Arm option, Big Wheel Kit must be installed before assembling arm onto base unit.

5. Once the arm assembly has been installed, simply pull the rubber seal band up so that it equally covers the open seam between the arm assembly collar and the base unit collar.
6. Using the plastic wing huts at the joints, adjust the tension on the brake pads until the arm works smoothly and the gas spring holds the arm at the desired position.

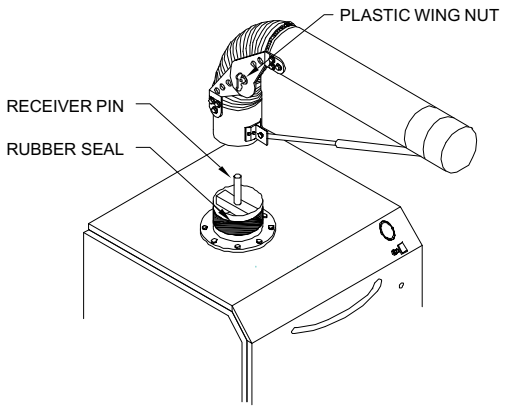


FIG. 1

7. Insert the lamp plug on the arm into the receptacle located directly behind the base of the arm on the TM1000 (Lamp Option only).

OPERATING INSTRUCTIONS

1. Choose a suitable, level place near the workstation and position the unit so that the hose/arm assembly will be placed near the source of pollution being generated. The TM1000 has locking wheels at the front handle end. The wheels are locked by stepping down on the flat plate on the wheels.

NOTE: With the wheels locked, do not attempt to pull hard on the extended arm in a sideways manner.

2. Grasp the hood by the handle and position within 18" of the source of pollution.
3. Plug the power cord into a 120V/230V/460V, 60 Hz. Outlet.
4. Turn the power switch on (located near MiniHelic Gauge.
5. The light control switch (optional) is mounted on the hood. Turn on the light as needed
6. Adjust the hood to capture maximum amount of contaminants. Periodically adjust the position of the hood to keep it in maximum capture range.
7. If the unit fan is rotating incorrectly, switch L1 & L2 connections (230V / 460V). This will reverse the rotation direction.

MINIHELIC GAUGE OPERATION

1. As the cartridges collect airborne pollutants, they will eventually begin to become "loaded", which will cause an increase in static pressure and a decrease in air flow.
2. The Minihelic Gauge on the control panel indicates static pressure. Note the reading at the initial start-up. As the unit is operated, the static pressure will gradually increase as the filters become loaded. This will indicate the need to back-flush the system.

TM1000 HEPA/CHARCOAL FILTER INSTALLATION INSTRUCTIONS

1. Remove the four (4) screws used to attach the lower panel and remove lower panel from TM1000.
2. Locate filter tracks as shown in **FIG. 2**. Filter tracks are to be located flush to front edge of cabinet bottom and centered above exhaust opening. (Align filter track over pre-punched holes).

NOTE: An exhaust restrictor plate is installed on TM1000 units not pre-equipped with an after filter. Remove the restrictor plate from the TM1000 when installing the after filter tracks.

WARNING: Exhaust restictor plate is used in lieu of afterfilters to prevent motor overload. If afterfilter is removed, re-install restrictor plate prior to operating unit. Failure to do so may result in damage to motor or electrical circuit.

3. Secure filter tracks to TM1000 using six (6) each #8 x 1/2" sheet metal screws provided.
4. To install filter, simply slide filter in between tracks (orient filter so the airflow arrow points downward).
5. Retain filter with stretch cord provided.
6. Replace lower panel. Installation is complete.

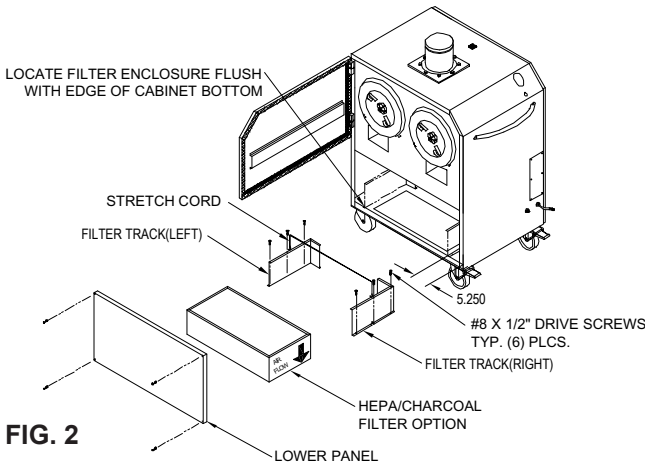


FIG. 2

CARTRIDGE CLEANING OPERATION (Backflushing)

NOTE: Pulse clean cartridges frequently for proper operation. Failure to do so will hamper performance.

NOTE: Turn unit off prior to cleaning.

1. The TM1000 is designed with a Roto-Pulse system to clean the cartridges.
2. Attach a shop air hose to the inlet located on the front of the TM1000.

NOTE: The unit is supplied with a ¼" NPT male nipple. It is recommended that a pressure regulator and water trap be installed between the shop air and the TM1000.

3. The TM1000 will properly clean the cartridges with the pressure at 90 psi maximum. The higher the pressure, the better the cleaning will be.
4. Once the air hose is installed, push the cartridge back-flush control button, mounted on the control panel, three or more times. This operation initiates the Roto-Pulse system, which spins the tube inside the cartridge. As the tube spins, air dislodges the dirty particles from the cartridge. These particles then settle into the two removable collection trays. The unit can now be returned to operation.
5. After several cleaning cycles, the dust particles that have been collected by the TM1000 will need to be emptied from the dust trays. The frequency of dust removal depends on the type and quantity of pollutant that is collected. The dust trays should be emptied before the particles have accumulated to a depth of ½ inch.
6. To remove the dust particles from the TM1000, turn the unit off. Open the cartridge access door and slide out the dust trays.
7. Dump the dust out of the trays.
8. Slide dust trays back into the TM1000. Close and latch the filter access door.

EXTENDING CARTRIDGE LIFE

1. After many months of operation, the back-flushing operation will no longer effectively remove particles on the cartridges. Cartridge life can be extended by manually blowing out the filters.
2. To manually clean the filters, remove filters from TM1000 and blow dust off using a hand-held blow gun attached to a shop air line. Air flow should be directed from the inside of the cartridge to the outside of the cartridge.

CARTRIDGE REPLACEMENT

1. Turn unit off and open filter access door.
2. Remove cartridge filters retained by wing nuts.
3. Slide new cartridge filters into cabinet and retain with wing nuts.
4. Close filter access door.

LUBRICATION

Since the motor is a totally enclosed, fan-cooled type, with permanently lubricated bearings, no lubrication is required.

REPLACEMENT OF MISCELLANEOUS COMPONENTS

The rest of the components on your air cleaner require no maintenance and need replacement only in case of accidental damage or normal wear.

OPTIONAL AUTOPULSE FIELD KIT INSTALLATION INSTRUCTIONS

Kit part numbers:

120V (1-phase) Part No.: 38511-02

Kit contains:
- 1 ea. 34378-01 Timer Module Assy.
- 1 ea. 34379-01 Pilot Valve Assy.
- 1 ea. P201 Hex Nut
- 1 ea. P248 Lock Washer
- 1 ea. P3920 Tee Fitting
- 17” P3734 Black Air Hose

208/230/460V (3-phase) Part No.: 38512-02 and 38512-04

Kit contains:
- 1 ea. 34380-01 115V Transformer Wire Assy.
- 1 ea. 34378-02 Timer Module Assy.
- 1 ea. 34379-01 Pilot Valve Assy.
- 3 ea. P201 Hux Nut
- 3 ea. P248 Lock Washer
- 1 ea. P3920 Tee Fitting
- 17” P3734 Black Air Hose

CAUTION: This installation will cause exposure to live parts. Disconnect power and compressed air to unit prior to installation.

INSTALLATION:

1. Remove the electrical control access cover located above the unit power cord.
2. Prepare electrical box for installation of pilot valve (P3118) by removing 7/8” hole plug.
3. Install pilot valve as shown in **FIG. 3a, 3b, and 3c**.
4. Install timer circuit assembly onto the two threaded studs as shown in **FIG. 3**.

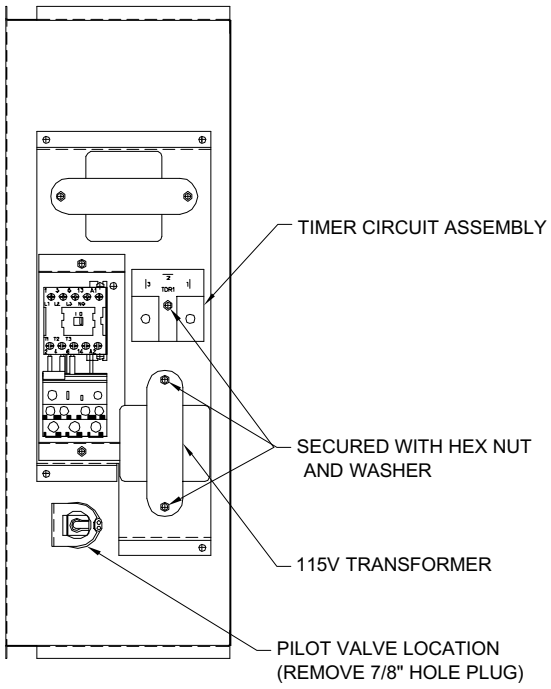


FIG. 3

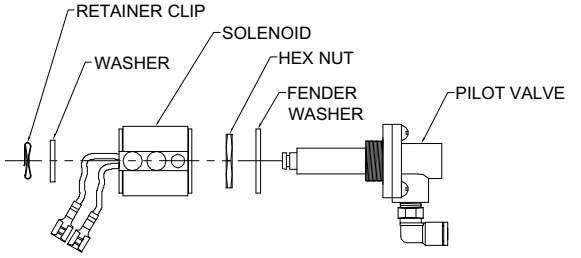


FIG. 3a

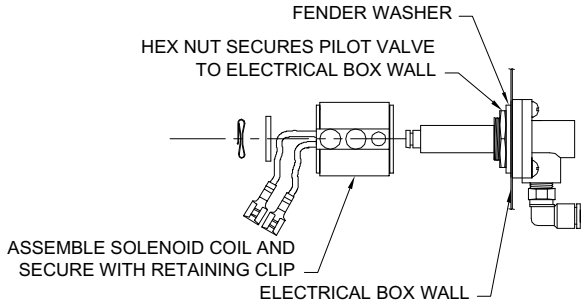


FIG. 3b

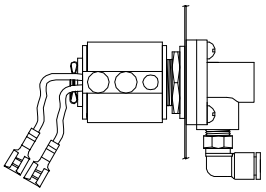


FIG. 3C

5. Make electrical connection as showing in electrical diagrams (note voltage application).
6. When completed, attach new wiring label to access cover.
7. Re-check wiring to ensure it matches new wiring diagram..
8. Remove large back panel of unit.
9. Locate diaphragm valve (item 18, Pg. 14). Disconnect black air line from press fit fitting.

10. Re-connect black air line into one side of tee fitting (See **FIG. 4**). Using black air line supplied with kit, attach one end to tee fitting and the other end to the pilot valve installed earlier.

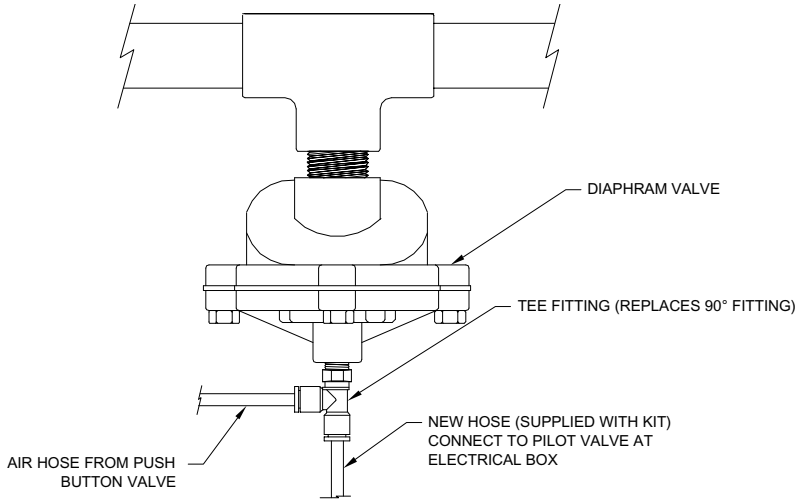


FIG. 4

11. Re-connect compressed air to unit. Note any leaks and fix if necessary before proceeding.
13. Turn unit on. Unit should pulse approximately every 60 seconds with a 1 second pulse duration. The time between pulses and duration of pulse can be adjusted as shown in **FIG. 5** and **FIG. 6**.
14. Once the internal time and pulse time are satisfactorily set, turn the unit off.
15. Once all adjustments are made, re-attach the electrical access cover and back access panel to the unit. Installation is complete.

AUTOPULSE ELECTRICAL ASSEMBLY

120V – 1 Phase

1. Connect black wire from terminal 3 of timer module to motor relay.
2. Connect wires from pilot valve to terminals 1 & 3 of timer module.
3. Connect white wire from terminal 2 of timer module to wire nut (supplied) that currently connects white wire from power cord, motor wire, and transformer.

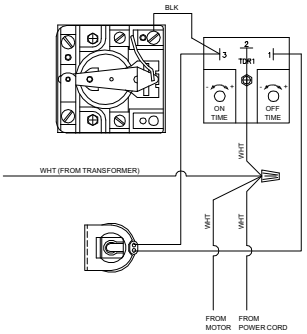


FIG. 5

208/230/460V – 3 Phase

1. Connect white wire from transformer to L2 of starter.
2. For 208V, connect orange wire from transformer to 14.

   For 230V, connect red wire from transformer to 14.

   For 460V, connect gray wire from transformer to 14.
3. Connect black wire from transformer to terminal 2 of timer module.
4. Connect blue wire from transformer to terminal 3 of timer module.
5. Connect wires from pilot valve to terminals 1 & 3 of timer module.

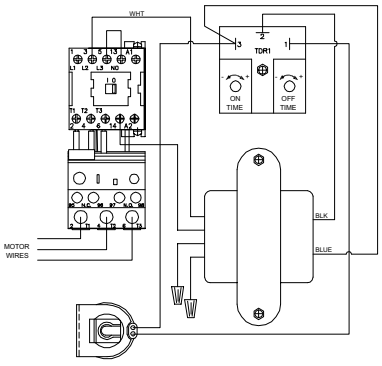


FIG. 6

BIG WHEEL OPTION - TM1000

INSTALLATION INSTRUCTIONS

Carton Contents: 1 ea. Installation Instructions
1 ea. Big Wheel Assembly
8 ea. 5/16-18 Hex Bolts (1” long)

The Big Wheel Assembly mounts into the same threaded holes used for the standard wheels. The assembly is designed to replace the fixed (non-swivel) wheels on the unit.

INSTALLATION:

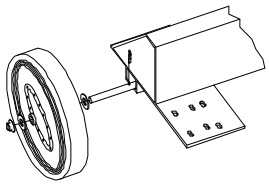
1. Position the unit on the side with the bottom exposed.

CAUTION: Source capture arms or other attachments must not be attached during kit installation.

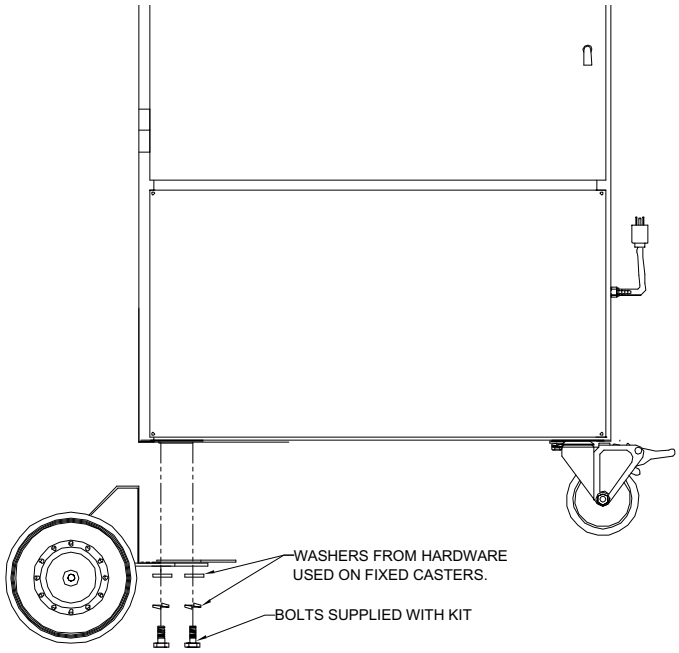
2. Remove the four (4) bolts, flat washers and lock-washers retaining each fixed wheel. The fixed wheels are at the end of the unit opposite the end of the handle. Retain hardware.
3. The Big Wheel Assembly uses the washers and lock-washers removed in Step 2.
4. Place the Big Wheel Assembly onto the unit, aligning the eight slotted holes over the holes in the unit.
5. Install the lock-washer, then the flat washer onto the 1” long hex bolts supplied with the kit. Secure the Big Wheel Assembly to the unit with the eight (8) hex bolts provided. Make sure the bolts are tight.

NOTE: When assembled, the Big Wheel Assembly should press against the back wall of the unit. Be certain that assembly is not positioned upside-down.

6. Upright unit onto the wheels. The unit is now ready to operate.



Big Wheel Kit (Exploded Veiw)



HANGING ATTACHMENTS

The TM1000 is designed to offer various methods of capturing ducts, fumes, and grinding smoke. In leiu of a conventional articulating source capture arm, attachments such as the Downdraft Table or Backdraft Hood can be used.

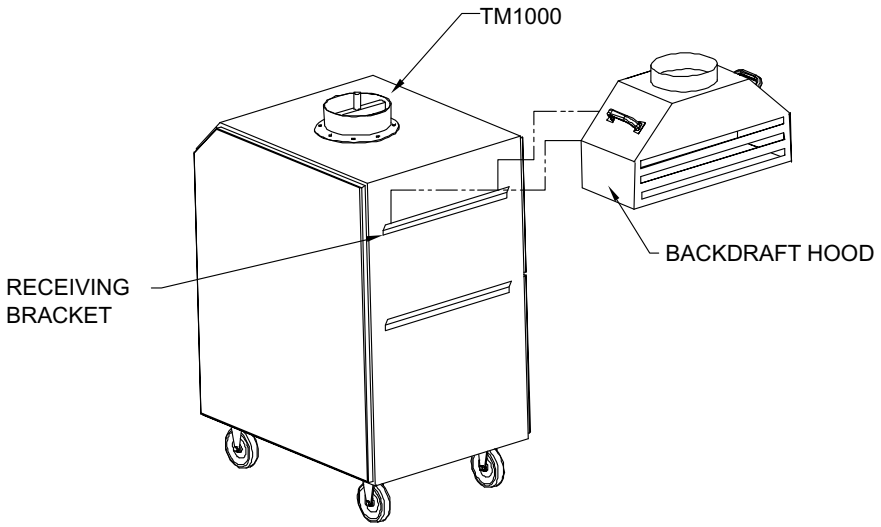
BACKDRAFT HOOD INSTALLATION

CONTENTS:

1 ea. Backdraft Hood
1 ea. Flexible Hose w/ Connector Collar
2 ea. Hose Clamps

1. Lift Backdraft Hood and locate near the TM1000 wall opposite to the side of the TM1000 handle.
2. Simply slide the Backdraft Hood into the upper receiving bracket located as shown below:
3. After installing the Backdraft Hood, slip the 8" Diameter Flexible Hose (end without Connector Collar) onto the Backdraft Hood Collar. Secure hose to collar using one hose clamp supplied with kit.
4. Simply slide the other end of the hose onto the 8" diameter inlet collar located on top of the TM1000.

NOTE: 15' and 25' hose lengths are available to allow the Backdraft Hood to be remote located.



HANGING ATTACHMENTS

The TM1000 is designed to offer various methods of capturing ducts, fumes, and grinding smoke. In lieu of a conventional articulating source capture arm and attachments such as the down draft table or back draft hood can be used.

DOWNDRAFT TABLE INSTALLATION

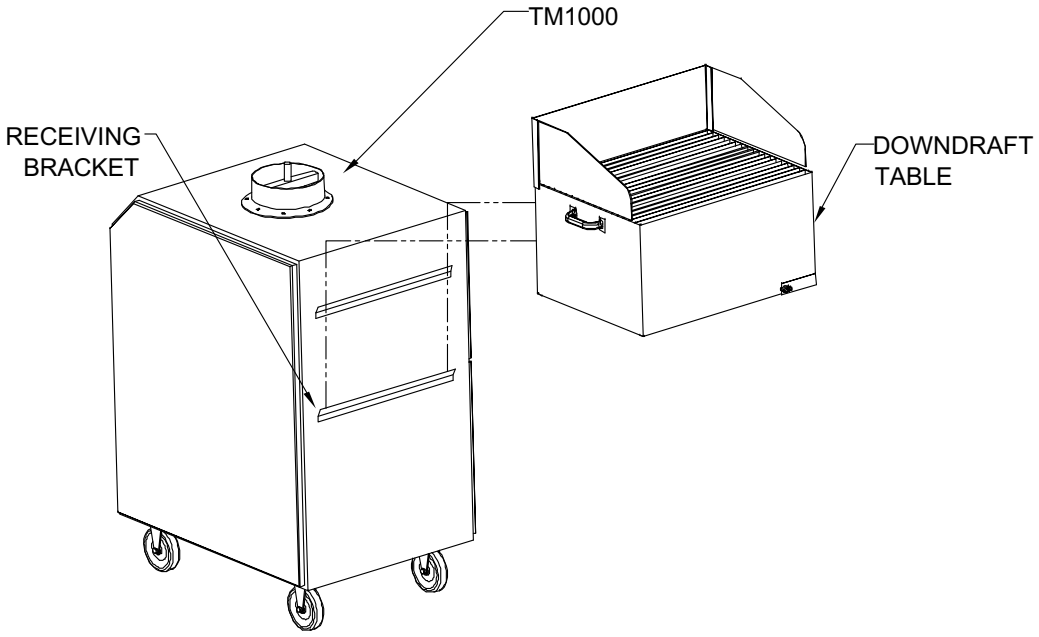
CONTENTS:

1 ea. Downdraft Table
1 ea. Flexible Hose w/ Connector Collar
2 ea. Hose Clamps

1. Lift Downdraft Table and locate near the TM1000 wall opposite to the side of the TM1000 handle.
2. Simply slide the Downdraft Table into the lower receiving bracket located as shown below:
3. After installing the Downdraft Table, slip the 8" Diameter Flexible Table (end without Connector Collar) onto the Downdraft Table Collar. Secure hose to collar using one hose clamp supplied with kit.
4. Simply slide the other end of the hose onto the 8" diameter inlet collar located on top of the TM1000.

NOTE: 15' and 25' hose lengths are available to allow the Downdraft Table to be remote located.

WARNING: Force placed upon Downdraft Table must not exceed 50 lbs. when attached to the TM1000. Do not exceed 300 lbs. when remote mounted.



TM1000 Lamp Kit Installation Instructions

Kit Contains:

1ea. Lens Clamp
1ea. Switch Box Assembly
1ea. 2-Pin Lamp Holder
1ea. Lens Gasket
1ea. 2-Pin Lamp
1ea. No-Rotation Pin
1ea. ¼ - 20 Hex Bolt
6ea. Cable Clamp
12ea. ¼" Sheet Metal Screws

The following tools are needed for installation:

- Flat blade screwdriver
- ¼" Hex Driver
- Needle Nose Pliers
- Adjustable end wrench

IMPORTANT: Read all instructions carefully prior to actual installation.

1. Check contents of kit for completeness.
2. Installation is easier if arm is removed from unit and placed on level surface.

Refer to Fig. 7 for steps 3 through 12.

3. First, remove handle cover located at arm nozzle section, retained by two (2) ¼" sheet metal screws.
4. Remove the aluminum inlet grille from nozzle. This is accomplished by carefully disconnecting the retaining spring located at the bottom of the grille (needle nose pliers recommended) and then pull the grille from the assembly.
5. Taking the lamp holder supplied with kit, insert the white wires up and through the ½" plastic bushing located near the nozzle handle. When done, the ceramic part of the lamp holder should be located inside the nozzle while the wires are poking out the top of the nozzle (near the handle).

NOTE: One of the white wires will contain a ¼" quick connector.

6. Locate the switch box assembly (contains cable, rocker switch) and hold it near the lamp holder wires. Connect the ¼" quick connector from the lamp holder to the open spade terminal on the rocker switch.
7. Connect the other white wire from the lamp holder to the RED wire coming from the switch box assembly, using wire nut supplied to secure the connection.
8. Now install the switch box onto the nozzle using ¼" sheet metal screws removed in Step 1.
9. Route the lamp holder through the large round hole on the grille previously removed.
10. Now reinstall the grille, slipping the grille under the retaining tab and reattaching the spring retainer.
11. To install lamp, first connect the lamp to the lamp holder by firmly pressing the 2-Pin connection together.
12. Next, position the lamp and holder into the large round hole in the nozzle grille. Then assemble the lens gasket and lens clamp (supplied with kit) over the lamp, trapping the lamp into position. Secure assembly with four (4) sheet metal screws provided.

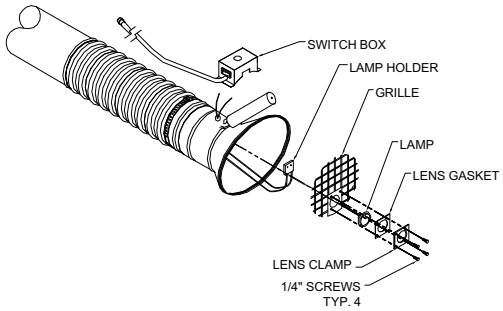


FIG. 7

13. Once the switch box and lamp is installed, secure the lamp kit control cable to the entire length of the arm using the cable clamps and ¼" sheet metal screws included with the kit. Locate clamps approximately as shown.

NOTE: Allow some extra cable length at the nozzle swivel joint so that the nozzle will continue to rotate 180° in either direction.

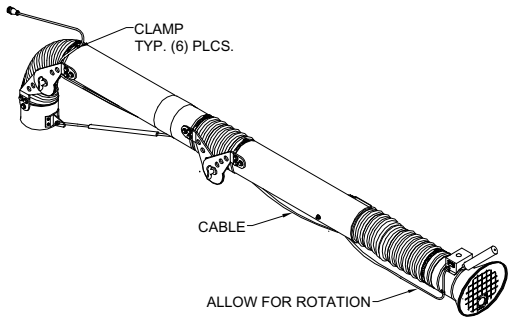


FIG. 8

14. Before installing the arm onto the base unit, the No-rotation pin must be installed at the base of the arm assembly (See **Fig.9**).

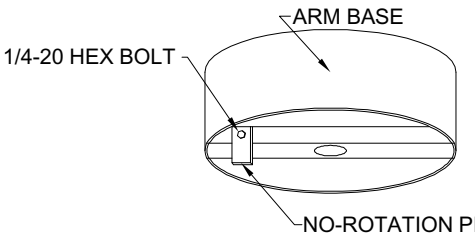


FIG. 9

15. Now the arm is ready to assemble onto the base unit. Install arm and connect lamp cable to the male connector located on top of the base unit. Plug unit in (use appropriate power outlet) and test the lamp for correct operation by turning on the lamp switch to the ON position.

TM1000 WIRING DIAGRAMS

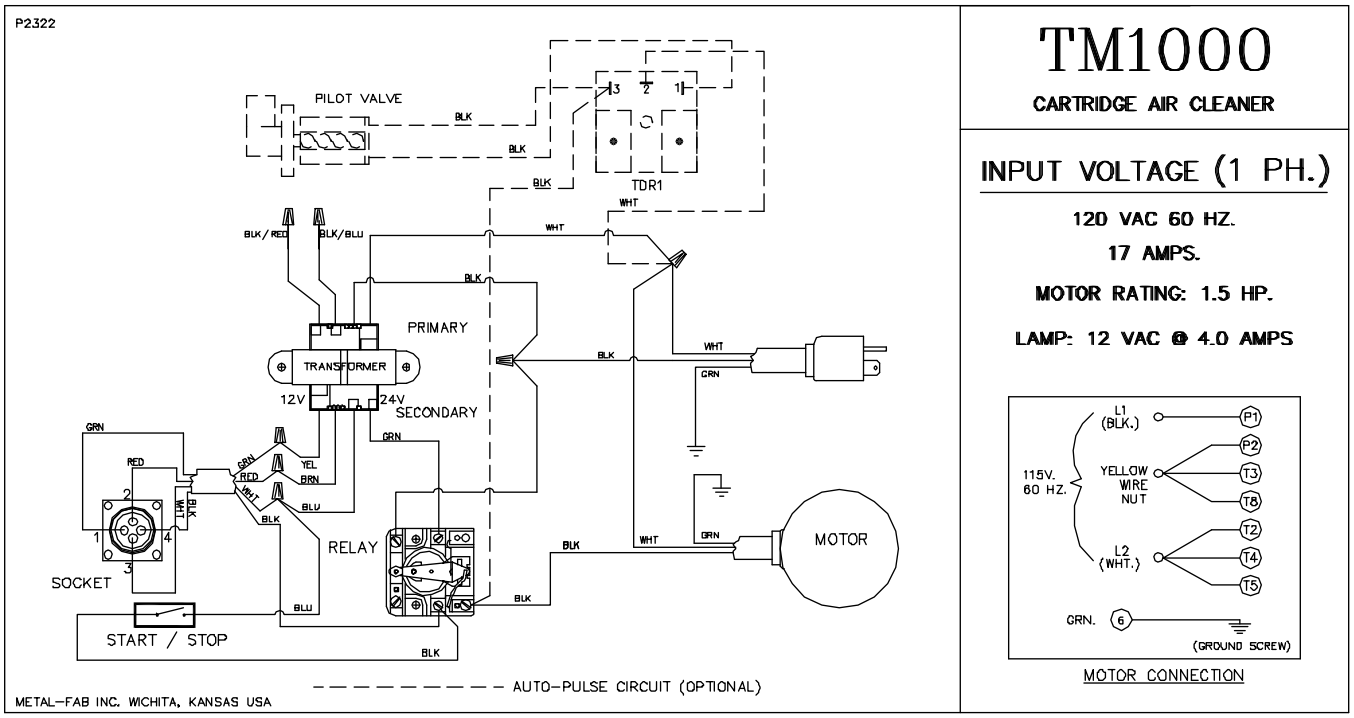


FIG. 10A

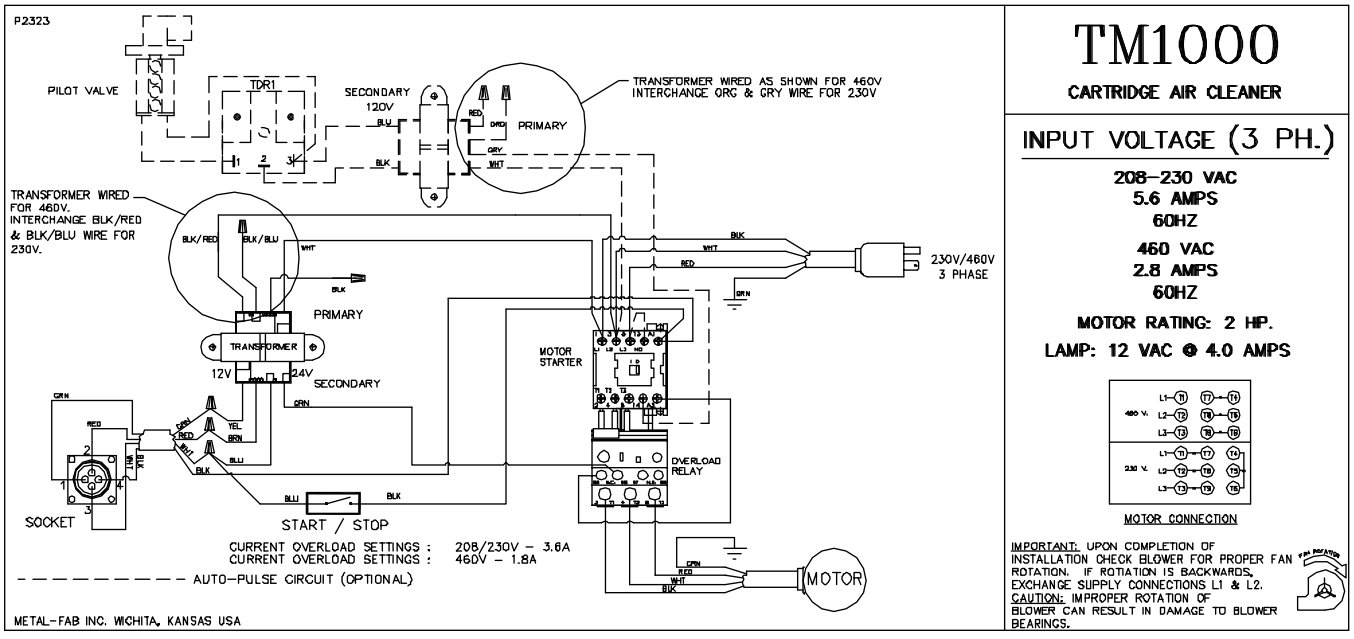


FIG. 10B

TM1000 PARTS LIST - 6” DIAMETER 8’ AND 10’ ARMS

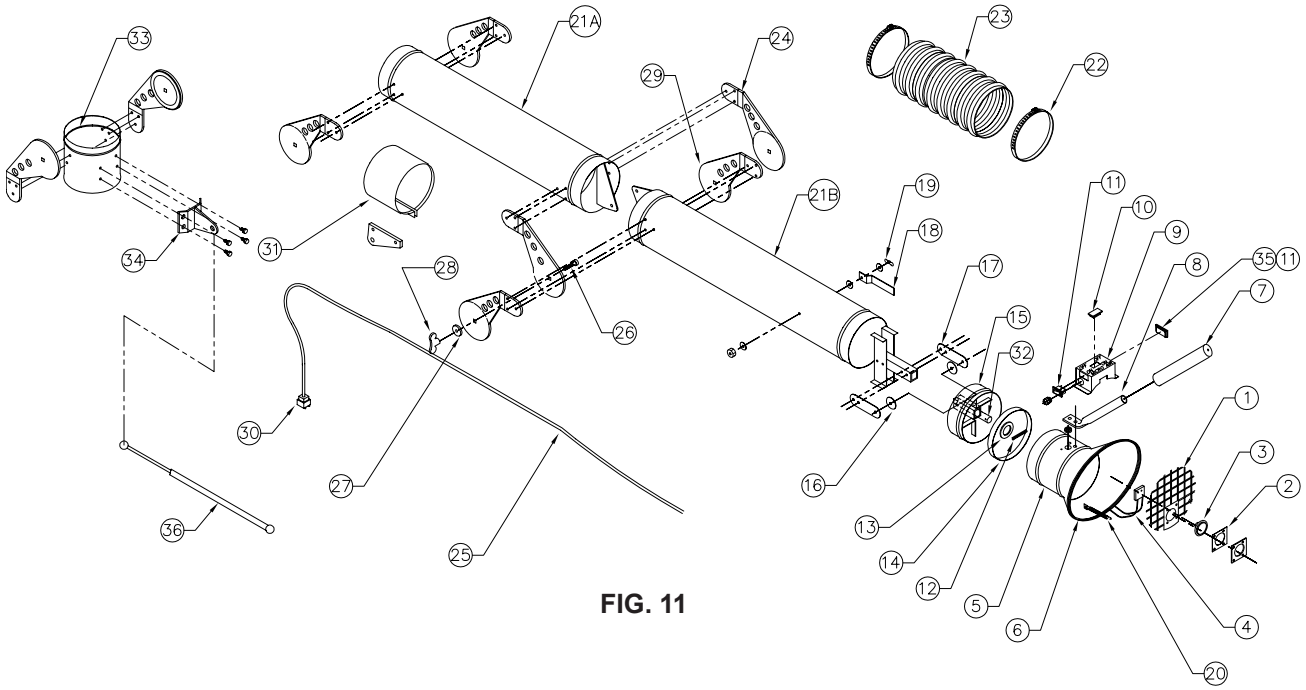


FIG. 11

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1.	34236-01	Arm Grille	1	21A.	36005-01	6” Dia., 8’ Arm Section	1
2.	P2241	Lens Gasket	1		36005-07	6” Dia., 10’ Arm Section	1
3.	P2170	Lamp	1	21B.	36005-02	6” Dia., 8’ Arm Section	1
4.	P2168	Lamp Holder	1		36005-08	6” Dia., 10’ Arm Section	1
5.	36533-01	Nozzle Assembly	1	22.	P2232	Hose Clamp	6
6.	P1342	Edge Trim	32”	23.	P2616	Hose Section	3
7.	P2237	Foam Grip	1	24.	36020-01	Joint Half	4
8.	36025-01	Handle	1	25.	P2220	Cable (20 ga/4)	14’/16’
9.	36069-01	Switch Box Weldment	1	26.	P190	Carriage Bolt	4
10.	P3539	Hole Plug	1	27.	P2618	Thrust Bearing	4
11.	P2219	Rocker Switch	1	Not Shown	P2599	Thrust Bearing Washer	4
12.	P200	Cotter Pin	1	28.	P2619	Plastic Wing Nut	4
13.	P125	Washer	1	29.	36020-02	Joint Half	4
14.	P2751	Seal	1	30.	P3279	Plug	1
15.	36532-01	Collar Weldment	1	31.	36024-01	Adj. Support Clamp	1
16.	36030-02	Disk Pad	2	32.	P2728	Nozzle Pin	1
17.	36535-01	Mini Joint Half Fitting	2	33.	38507-01	Base Collar	1
18.	36044-01	Handle	1	34.	36085-01	Pin Anchor	1
19	P2623	Spring Bearing Package	1	35.	P2247	Hole Plug	1
20.	P2847	Spring	4	36.	P2726	Gas Spring (8ft)	1
					P3299	Gas Spring (10ft)	1
				Not Shown	38510-01	Optional Lamp Kit 8’ Arm	
				Not Shown	38510-02	Optional Lamp Kit 10’ Arm	

TM1000 PARTS LIST - 8” DIAMETER 8’ AND 10’ ARMS

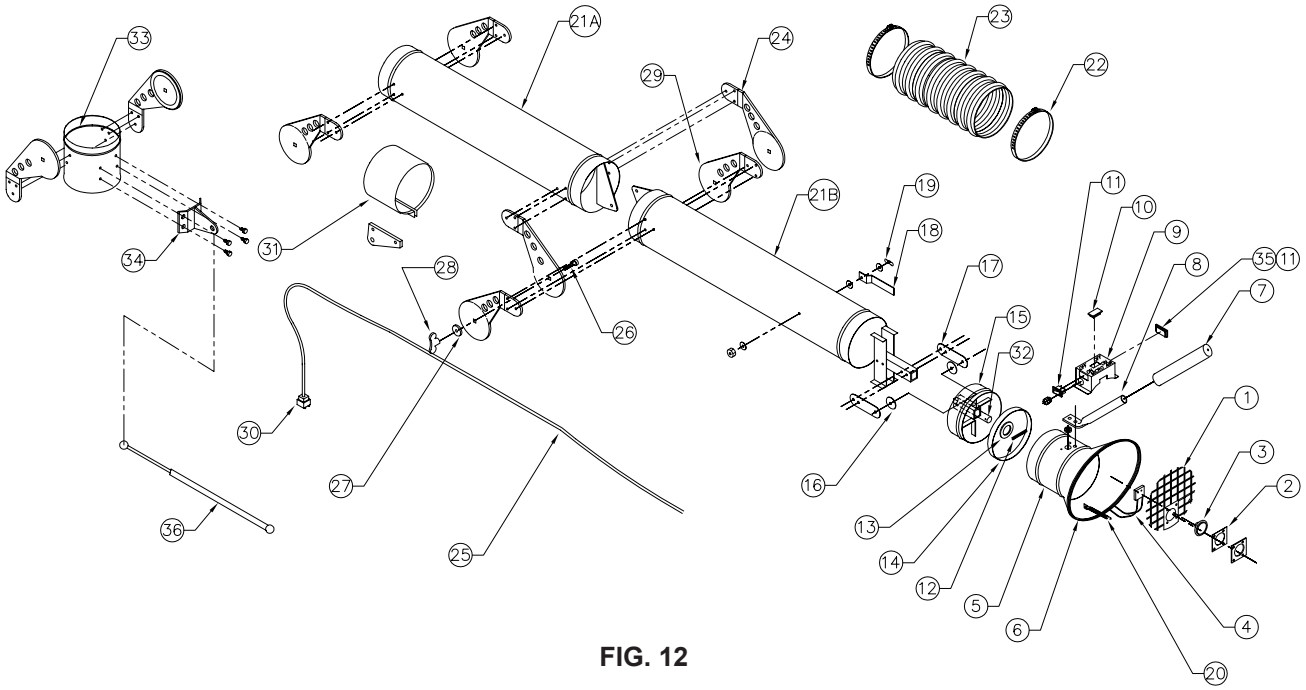
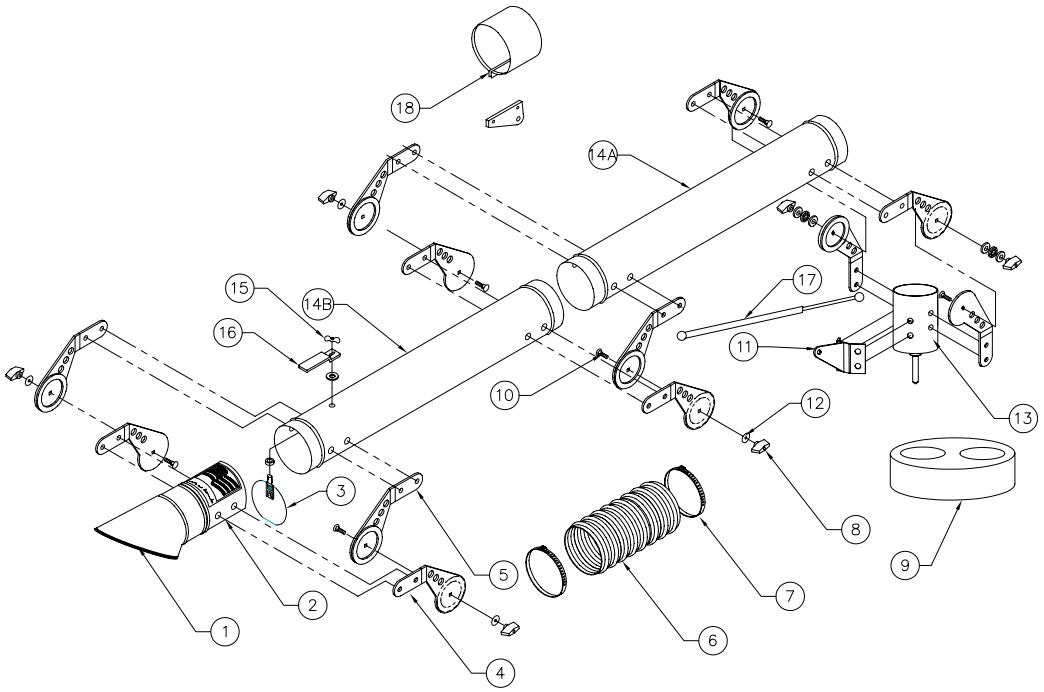


FIG. 12

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1.	36071-01	Arm Grille	1	21A.	36005-04	8” Dia., 8’ Arm Section	1
2.	P2241	Lens Gasket	1		36005-05	8” Dia., 10’ Arm Section	1
3.	P2170	Lamp	1	21B.	36005-10	8” Dia., 8’ Arm Section	1
4.	P2168	Lamp Holder	1		36005-11	8” Dia., 10’ Arm Section	1
5.	36533-02	Nozzle Assembly	1	22.	P2232	Hose Clamp	6
6.	P1342	Edge Trim	32”	23.	P2617	Hose Section	3
7.	P2237	Foam Grip	1	24.	36020-01	Joint Half	4
8.	36025-01	Handle	1	25.	P2220	Cable (20 ga/4)	14’/16’
9.	36069-01	Switch Box Weldment	1	26.	P190	Carriage Bolt	4
10.	P3539	Hole Plug	1	27.	P2618	Thrust Bearing	4
11.	P2219	Rocker Switch	1	Not Shown	P2599	Thrust Bearing Washer	4
12.	P200	Cotter Pin	1	28.	P2619	Plastic Wing Nut	4
13.	P125	Washer	1	29.	36020-02	Joint Half	4
14.	P2933	8” Seal	1	30.	P3279	Plug	1
15.	36532-02	Collar Weldment	1	31.	36024-02	Adj. Support Clamp	1
16.	36030-02	Disk Pad	2	32.	P2728	Nozzle Pin	1
17.	36535-01	Mini Joint Half Fitting	2	33.	38507-02	Base Collar	1
18.	36044-01	Handle	1	34.	36085-01	Pin Anchor	1
19.	P2623	Spring Bearing Package	1	35.	P2247	Hole Plug	1
20.	P2847	Spring	4	36.	P2726	Gas Spring (8ft)	1
					P3299	Gas Spring (10ft)	1
				Not Shown	38510-01	Optional Lamp Kit 8’ Arm	
				Not Shown	38510-02	Optional Lamp Kit 10’ Arm	

TM1000 PARTS LIST - 3” DIAMETER DUAL ARMS



NOTE: One Arm Shown for clarity.

FIG. 13

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1.	P1342	Hood Edge Guard	1	10.	P338	Carriage Bolt	6
2.	36351-01	Nozzle Assy.	1	11.	36085-02	Anchor Pin	1
3.	36314-01	Damper Plate	1	12.	P2620	Nylon Washer	6
4.	36359-02	Joint Half	6	13.	38522-01	Arm Base	1
5.	36359-01	Joint Half	6	14A.	36353-08	3” Arm Section	1
6.	P3515	Hose Section	3	14B.	36353-07	3” Arm Section	1
7.	P1995	Hose Clamp	6	15.	P2623	Spring Bearing Package	1
8.	P3506	Knob	6	16.	36344-01	Handle	1
9.	38530-01	3” Dual Arm Collar	1	17.	P2726	Gas Shock	1
				18.	36024-03	Adj. Support Clamp	1

TM1000 PARTS LIST - BASE UNIT

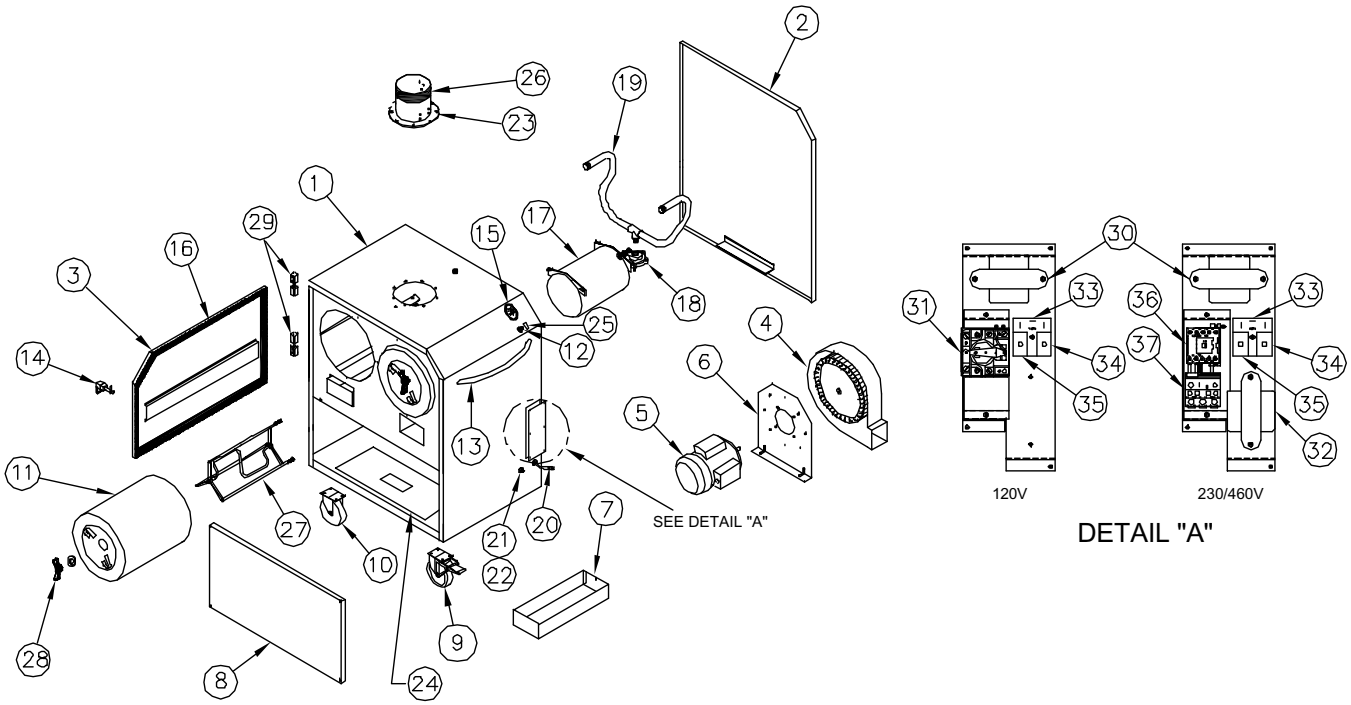


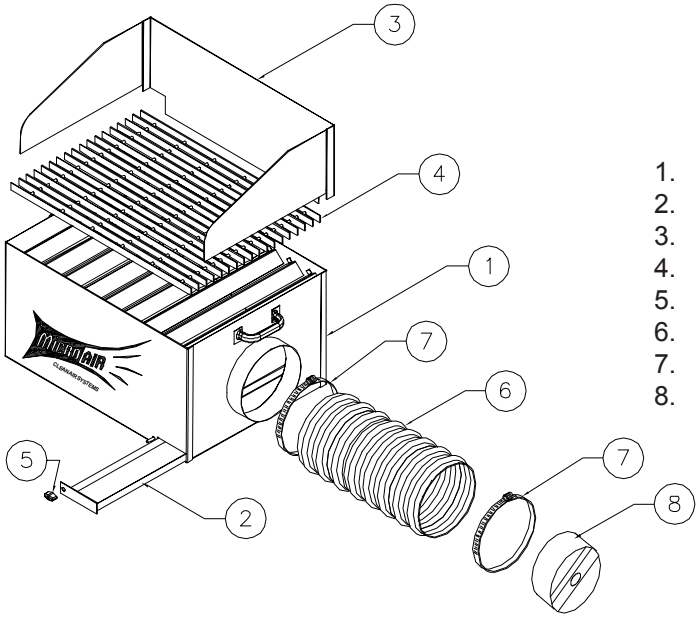
FIG. 14

ITEM	PART NO.	DESCRIPTION
1.	38551-01	Cabinet
2.	34331-02	Back Panel
3.	34254-02	Filter Door
4.	P2302	Blower
5.	P2301	Motor (120V)
	P2320	Motor (3-Phase)
6.	34363-01	Motor Plate
7.	34227-01	Dust Tray Weldment
8.	34332-01	Lower Panel
9.	P1304	Swivel Caster
10.	P1313	Fixed Caster
11.	P3751	Filter Cartridge
12.	P2766	Push Button Air Valve
13.	P2215	Handle
14.	P1372	Latch
15.	P2221	Mini Helic Gauge
*16.	P1367	3/4” x 1” Foam Gasket
17.	36712-01	Accumulator Tank
18.	P2075	Diaphragm Valve

ITEM	PART NO.	DESCRIPTION
19.	36723-03	Tee Assembly
20.	P1363	Cord Set (120V)
21.	P2222	1/4” Barb x Female 1/8”NPT
22.	P2210	1/8” Male x 1/4” Male Hex Nipple
23.	38560-01	Pin Collar Weldment
24.	38561-01	Exhaust Restrictor Plate
25.	P2219	Rocker Switch
26.	P2933	Seal Band
27.	36720-04	Roto-Pulse Assembly
28.	P2619	5/16” Wing Nut
29.	P2835	Hinge
30.	P2534	Transformer
31.	P2078	Relay
32.	P1754	Transformer
33.	P2922	Timer
34.	P2924	Variable Resistor
35.	P2925	Variable Resistor
36.	P3909	Motor Starter Relay
37.	P3914	Overload Relay

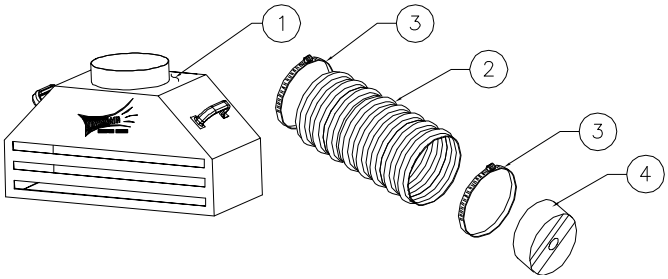
* Specify Length Required.

TM1000 PARTS LIST - ACCESSORIES



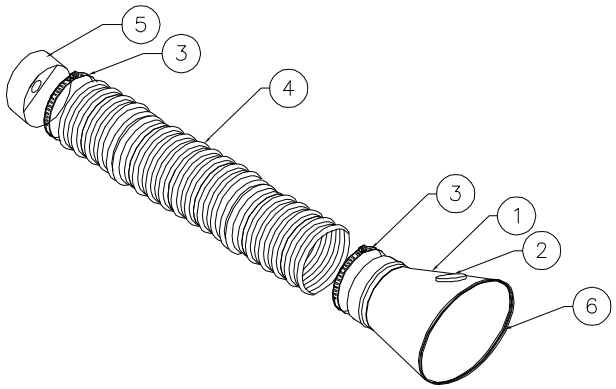
Downdraft Table

1.	38570-01	Downdraft Assembly
2.	38576-01	Cleanout Drawer
3.	38579-01	Shield Assembly
4.	P2314	Steel Grate
5.	P3506	Wing Nut
6.	P2319	Hose (Qty. 6ft.)
7.	P2232	Hose Clamp
8.	38552-01	8” Dia Receiver collar



Backdraft Table

1.	38499-01	Backdraft Assembly
2.	P2319	Hose (Qty. 5ft.)
3.	P2232	Hose Clamp
4.	38552-01	8” Dia. Receiver collar



Magnetic Hood

1.	38569-01	Hood Assembly with Magnet
2.	P2303	Magnet
3.	P2232	Hose Clamp
4.	P2319	Hose (Qty. 15ft.)
	P2319	Hose (Qty. 25ft.)
5.	38552-01	8” Dia. Receiver collar
6.	P1342	Edge Guard

TROUBLESHOOTING CHART

CAUTION: Before disassembling the unit, or doing any inspection on the parts, make certain that the power has been cut off and the blower has come to a complete stop. Never run the unit with the access door open or removed.

PROBLEM	POSSIBLE CAUSES	REMEDY
Unit fails to start	Dead power line	Check the circuit and switch
	Relay won't close	Low power or extension cord too long
	Blown fuse	Replace fuse
	Loose wire in terminal box	Reconnect wire
	Burned out motor	Replace motor
	Tripped overload (3-Phase)	Reset overload protector
Unit runs for short period of time and stops	Exhaust restrictor plate removed	Re-install restrictor plate
	Wrong input voltage	Check for proper voltage
	Long extension cord	Plug directly into outlet
Unit runs slowly or inadequate capture velocity	Wired for wrong voltage or improper rotation	Check input voltage Check wiring diagram
	Dirty cartridges	Clean or replace cartridges (See Roto-Pulse Cartridge Cleaning Operation section)
	Obstruction in hose/arm assembly	Remove obstruction
Vibration	Loose mounting bolts	Tighten bolts
	Foreign objects in blower	Remove access door and remove objects
	Dirty disposable filters	Clean or replace cartridges (See Roto-Pulse Cartridge Cleaning Operation section)
	Obsruction in hose/arm assembly	Remove obstruction
Continuous air noise from unit	Air leaking from hose	Tighten hose clamps Replace split hose
	Air leaks through air valve	Tighten vavle coupler Replace valve

MICRO AIR
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