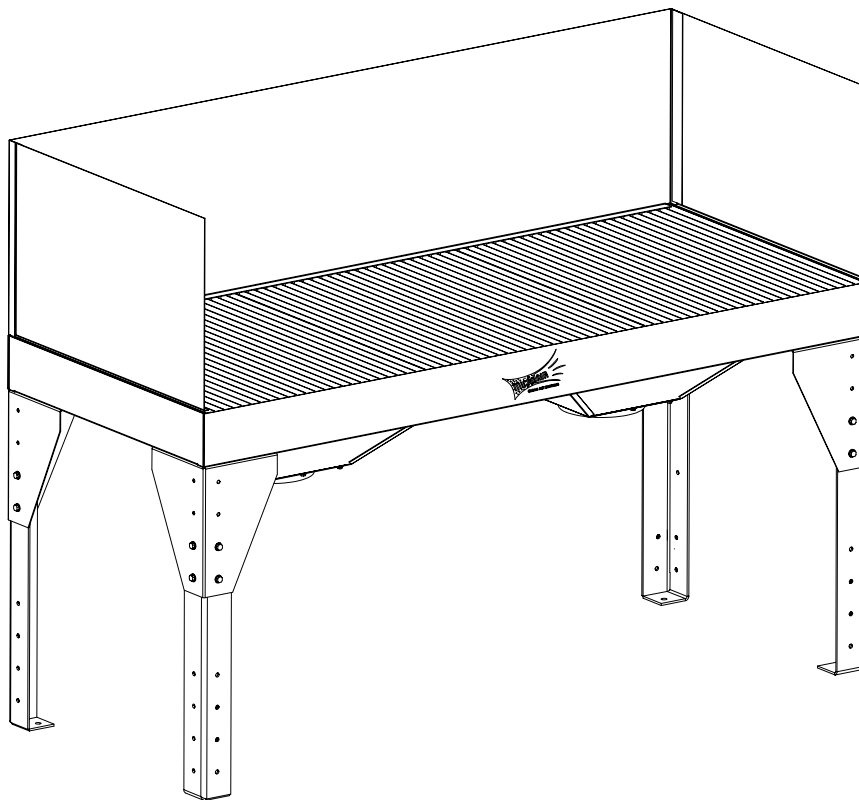




**MICRO-AIR DOWNDRAFT TABLES
INSTALLATION AND OPERATION MANUAL
DDT4830 & DDT7230**

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.



CAUTION

- 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® Equipment should comply with all National and Local Fire Codes and / or other appropriate codes when determining the location and operation of dust control equipment.

SPECIFICATIONS

CABINET DIMENSIONS AND WEIGHTS

4830 57 3/4" max. H x 48 3/8" W x 30" D 255lbs.
7230 57 3/4" max. H x 72 3/8" W x 30" D 285lbs.

DUST TRAY CAPACITY (OPTIONAL)

432 Cubic inches total

INSTALLATION

INSPECTION

The Micro-Air® Clean Downdraft Table is shipped on multiple skids. All skids should be inspected for any visible damage that may have occurred during shipment.

Additional equipment that maybe shipped separately includes:

- | | |
|----------------|----------------|
| Drop-Out Kits | Dust-Tray Kits |
| Hopper Collars | Wheel Kit |
| Grills | |

EQUIPMENT / TOOLS REQUIRED

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

- | | |
|---------------------|-------------------------|
| Crane or Lift Truck | 1/2" Concrete Drill Bit |
| Wrench | 1/2" Anchors |
| Drill | |

ASSEMBLY OF UNIT

1. Remove packaging from table and legs.

NOTE: Leg assembly can be completed while unit is upside down on skid.

2. Place leg on the inside of leg bracket. Align holes in leg to corresponding holes in leg bracket (See **FIG. 1**). The leg can be installed in three different positions. The shortest position will give an approximate table height of 30", the middle setting 33" and the tallest setting 36".
3. Attach leg with provided hardware. Insert all 4 bolts before tightening the nuts.

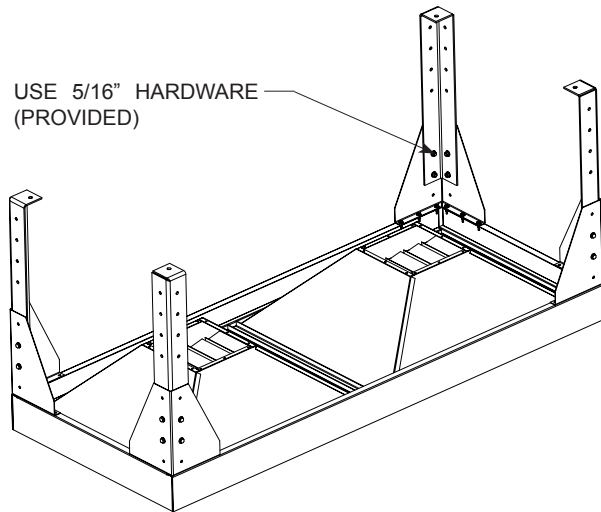


FIG. 1

4. Install optional components prior to turning the unit over. See installation procedure for optional components on pages 3 through 7.
5. Determine location for downdraft table. The table must be located on a hard flat surface capable of holding 1/2" anchor bolts.
6. Move table to location and mark location for anchor bolts. (Unless wheel kit is installed)
7. Move table out of area, drill appropriate holes and place 1/2" anchor bolts.
8. Move/lift table back into position over anchors.
9. Secure table with appropriate nuts/washers.
10. Place appropriate grills on the table.
11. Proceed with installation of optional components.
12. Connect ductwork to collars on the bottom of the hoppers.

Recommended air flow:

| Operation | Face Velocity | CFM 48" Table | CFM 72" Table |
|----------------|---------------|---------------|---------------|
| Heavy Grinding | 250-300 FPM | 2500 CFM | 3750 CFM |
| Welding | 200-250 FPM | 2000 CFM | 3000 CFM |
| Fine Dusts | 175-200 FPM | 1750 CFM | 2625 CFM |

DDT SHIELD INSTALLATION PROCEDURE

This Kit Includes:

| ITEM | PART NO. | DESCRIPTION | QTY | ADDITIONAL INFORMATION |
|------|----------|----------------------------------|-----|------------------------|
| 1 | 37825-01 | Shield Assembly | 1 | DDT4830 Only |
| | 37825-02 | Shield Assembly | 1 | DDT7230 Only |
| 2 | P3543 | Self Tapping Screw | 3 | DDT4830 Only |
| | P3543 | Self Drilling/Self Tapping Screw | 5 | DDT7230 Only |

INSTALLATION

1. Remove Shield Assembly from packaging. Inspect for any possible damage incurred during shipment.

NOTE: Grills must be installed prior to installing Shield Assembly.

2. Set Shield Assembly on top of the assembled Downdraft Table. The Screw Plates should overlap at the rear of the table.
3. Center Shield Assembly on table. Verify side shields can move freely.
4. Attach Shield Assembly with provided Self Drilling/Self Tapping Screws.

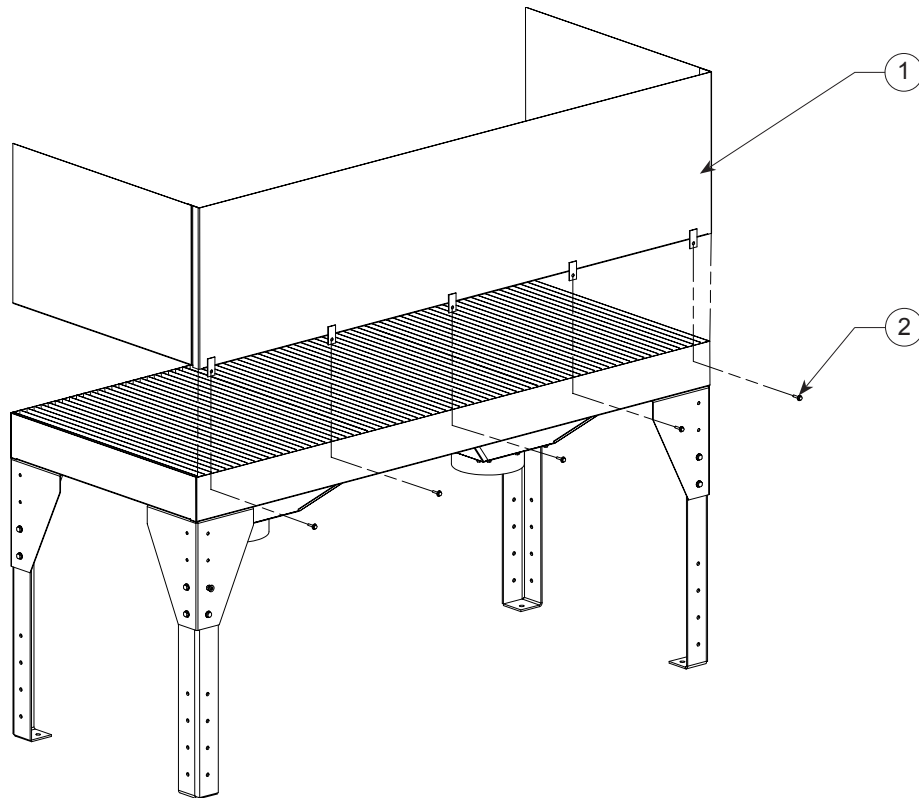


FIG. 2

DDT COLLAR KIT INSTALLATION PROCEDURE

This Kit Includes:

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----------|
| 1 | 37815-01 | Hopper Collar | 2 |
| 2 | P3543 | Self Drilling/Self Tapping Screw | 24 |
| 3 | P1031 | 1/4" x 1/2" Foam | 80 Inches |

INSTALLATION

1. Remove Collar Kit from packaging. Inspect for any possible damage incurred during shipment. If this is a new table, assembly can be done while table is upside down.



CAUTION

Some assembly steps may require lifting and should only be done using proper lifting techniques.

2. Remove backing and place foam on Collar Plate. Foam should cover holes.
3. Line up hole pattern on Collar Plate with hole pattern on Hopper.
4. Screw in twelve screws.
5. Repeat for second hopper.

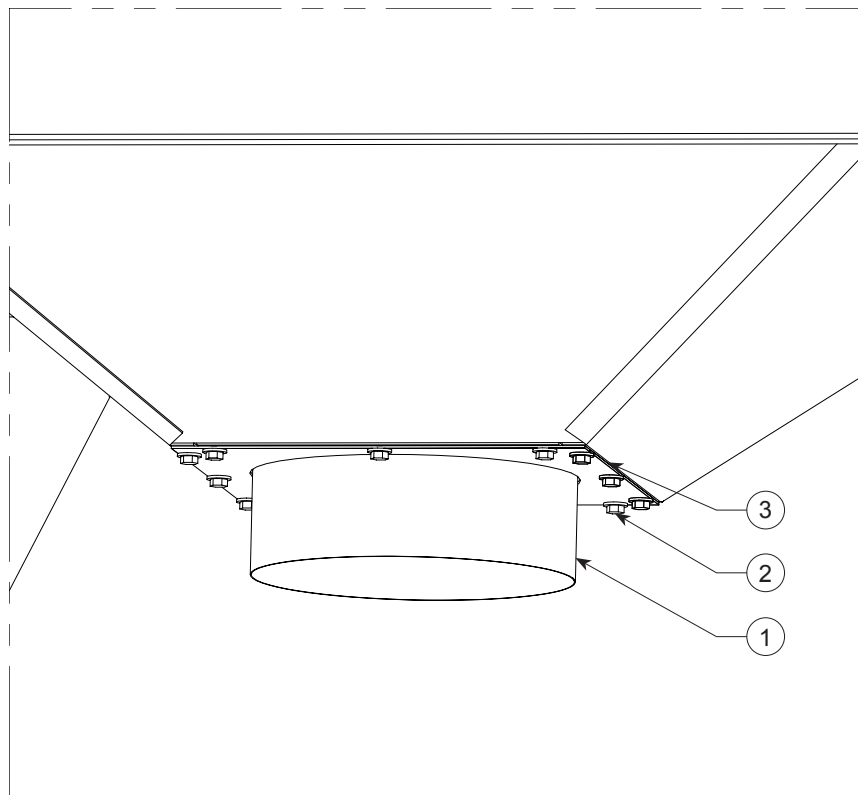


FIG. 3

DDT HOPPER DROP-OUT KIT INSTALLATION PROCEDURE

This Kit Includes:

| ITEM | PART NO. | DESCRIPTION | QTY. | ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------|------------------------------|----------|------|----------|-----------------|------------|
| 1 | 37835-01 | Hopper Drop-Out (1 Collar) | 2 | 4 | P164 | 1/4-20 Hex Bolt | 12 |
| | 37835-02 | Hopper Drop Out (2 Collars) | Optional | | P1729 | 1/4 Washer | 24 |
| 2 | P3543 | Self Drilling/Tapping Screws | 24 | | P203 | 1/4-20 Nut | 12 |
| 3 | 37848-01 | Drop Out Blank Plate | 2 | | P242 | 1/4 Lock Washer | 24 |
| | 37815-01 | Collar | Optional | 5 | P1031 | 1/4 x 1/2 Foam | 160 Inches |

INSTALLATION

1. Remove Hopper Drop-Out kit from packaging. Inspect for any possible damage incurred during shipment. If this is a new table assembly can be done while table is upside-down.



CAUTION

Some assembly steps may require lifting and should only be done using proper lifting techniques.

- Remove backing and place foam on Drop-Out flanges.
- Line up hole pattern on Hopper Drop-Out flanges with hole pattern on Hopper. The Drop-Out Assembly can be rotated to accommodate duct location.
- Screw in twelve screws.

NOTE: Drop-Out Blank Plate can be modified to allow for custom Drop-Out containers.

- Remove backing and place foam on the Blank Drop-Out Plate.
- Line up hole pattern on Drop-Out Blank Plate with hole pattern on flanges of Hopper Drop-Out.
- Attach Drop-Out Blank Plate using provided 1/4" hardware.
- Hopper Collar can be substituted for the Drop-Out Blank Plate (As Shown in **FIG. 4**).
- Repeat for second hopper.

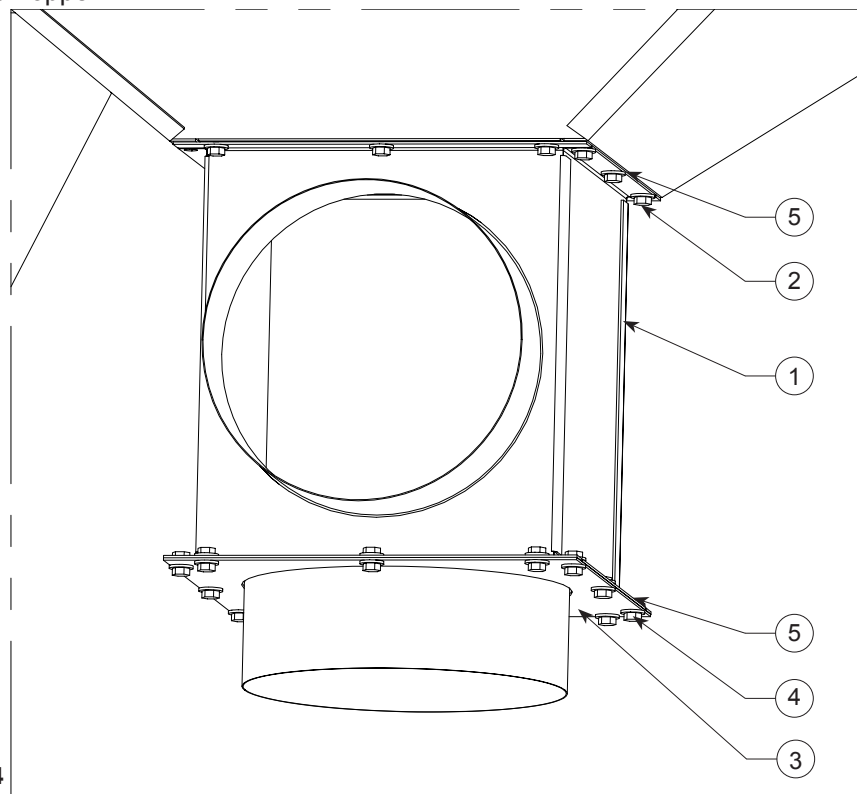


FIG. 4

DDT DUST TRAY KIT INSTALLATION PROCEDURE

This Kit (37840-01) Includes:

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------|-----------------|-----------|
| 1 | 37841-01 | Dust Tray Wrap | 2 |
| 2 | 37842-01 | Drawer | 2 |
| 3 | P3506 | Knob | 2 |
| 4 | P3686 | Foam | 60 Inches |
| 5 | P164 | 1/4-20 Hex Bolt | 12 |
| | P1729 | 1/4 Washer | 24 |
| | P203 | 1/4-20 Nut | 12 |
| | P242 | 1/4 Lock Washer | 24 |

INSTALLATION

1. Remove Dust Tray Kit from packaging. Inspect for any possible damage incurred during shipment. If this is a new table assembly can be done while table is upside-down.



CAUTION

Some assembly steps may require lifting and should only be done using proper lifting techniques.

2. Remove backing and place foam on Dust Tray Wrap flanges.
3. Line up hole pattern on Dust Tray Wrap flanges with hole pattern on Drop-Out. The Dust Tray Wrap can be rotated to accommodate drawer removal.
4. Attach Dust Tray Wrap using provided 1/4" hardware.
5. Slide Drawer into Dust Tray Wrap and secure using provided Knobs.
6. Repeat for second hopper.

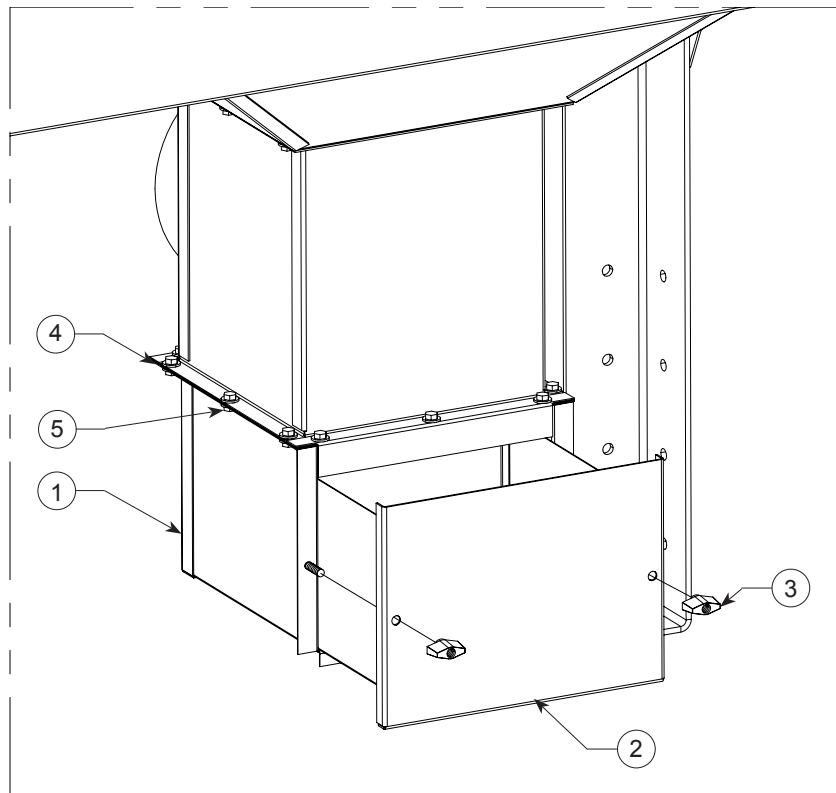


FIG. 5

DDT WHEEL KIT INSTALLATION PROCEDURE

This Kit Includes:

| ITEM | PART NO. | DESCRIPTION | QTY. | ADDITIONAL INFORMATION |
|------|----------|---------------------|------|------------------------|
| 1 | P2334 | Swivel Caster Wheel | 4 | |
| 2 | 37820-03 | 30" Leg Brace | 2 | |
| 3 | 37820-01 | 48" Leg Brace | 2 | (DDT4830 Only) |
| | 37820-03 | 72" Leg Brace | 2 | (DDT7230 Only) |
| 4 | P164 | 1/4-20 Hex Bolt | 16 | |
| | P1729 | 1/4 Washer | 32 | |
| | P203 | 1/4-20 Hex Nut | 16 | |
| | P242 | 1/4 Lock Washer | 32 | |
| 5 | P146 | 1/2-13 Hex Nut | 4 | |
| | P147 | 1/2 Lock Washer | 4 | |
| | P3314 | 1/2 Flat Washer | 4 | |

INSTALLATION

1. Remove wheel kit from packaging. Inspect for any possible damage incurred during shipment. If this is a new table assembly can be done while table is upside-down.



CAUTION

Some Assembly steps require lifting and should only be done using proper lifting techniques.

2. Lift the short end of the table approximately 6" above the floor.
3. Insert threaded shaft of caster through the hole in the bottom of the leg.
4. Repeat for second leg.
5. Place washers and nut on the threaded shaft, Tighten.
6. Lower the end and block so it cannot move.
7. Repeat steps 2 through 6 for the opposite end.
8. Using the provided 1/4" hardware attach the leg braces (See Figure 6). The braces may be lowered or raised to accommodate ductwork.
9. Remove blocks used to hold table.

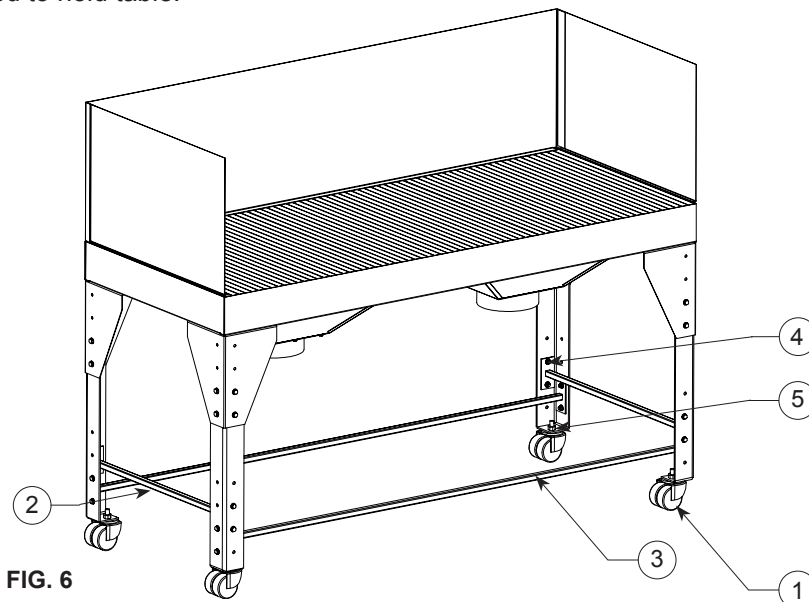


FIG. 6

DDT PARTS LIST

| ITEM | PART NO. | DESCRIPTION | ITEM | PART NO. | DESCRIPTION |
|------|----------|---------------------------|------|----------|---|
| 1. | 37800-01 | 48" x 30" Downdraft Table | | 37840-01 | Drawer/Wrap Assembly (Drawer, Knob, & Wrap) |
| | 37800-02 | 72" x 30" Downdraft Table | 7. | 37842-01 | Dust Tray Drawer |
| 2. | 37825-01 | 48" Back/Side Shield | 8. | P3506 | Knob |
| | 37825-02 | 72" Back/Side Shield | 9. | 37841-01 | Dust Tray Wrap |
| 3. | P2334 | Swivel Caster Wheels | 10. | 37835-01 | Hopper Drop-Out One Collar |
| 4. | 37820-01 | 30" Leg Brace | | 37835-02 | Hopper Drop-Out Two Collars |
| 5. | 37820-02 | 48" Leg Brace | 11. | 37807-01 | Black Painted Grill |
| | 37820-03 | 72" Leg Brace | | 37808-01 | Rubberized Grill |
| 6. | 37815-01 | Hopper Collar | | P2330 | Aluminum Grill |
| | | | | P2331 | Fiberglass Grill |

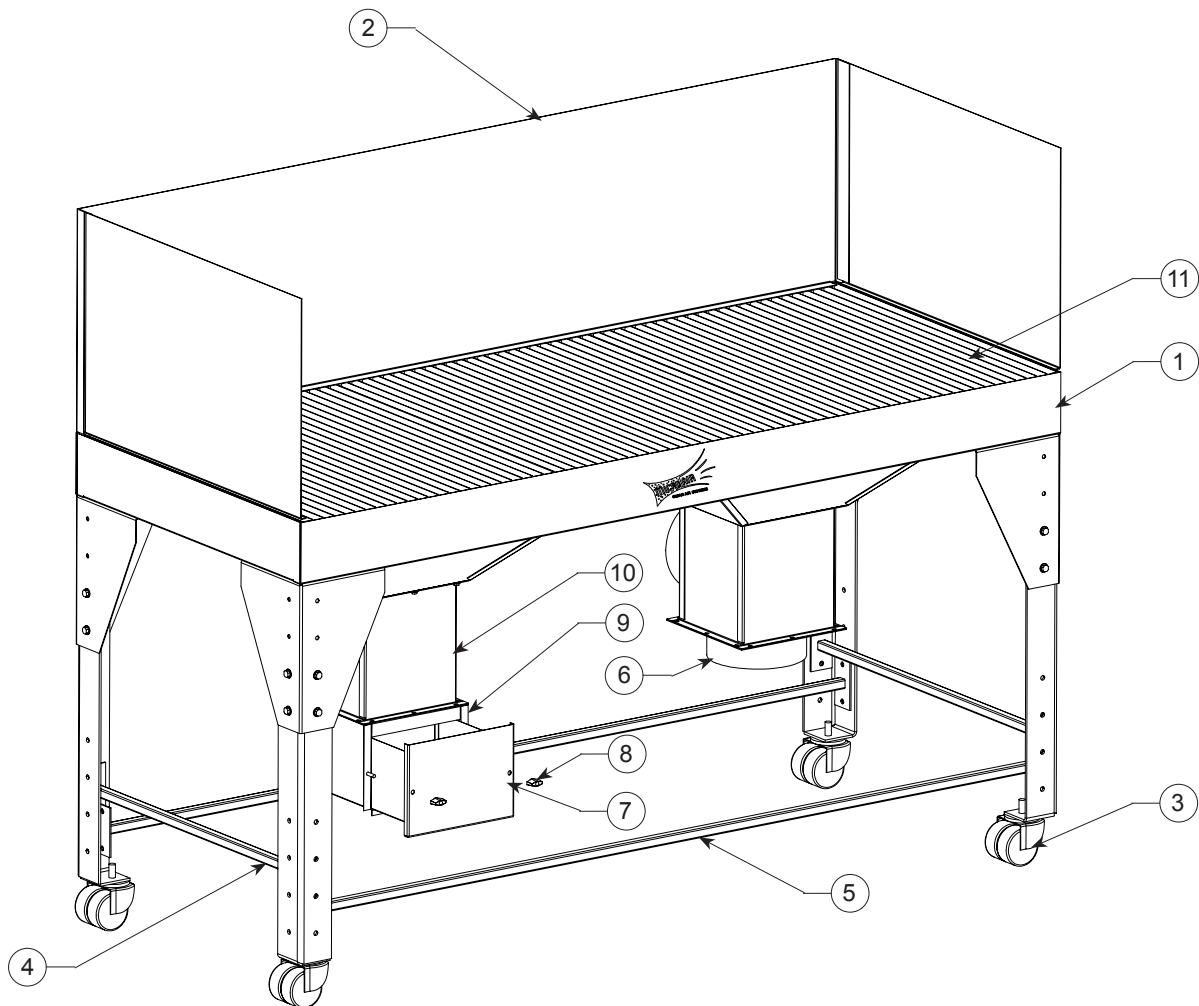


FIG. 7

