Instruction for Use -
Replacing Fan Motor for D and TS series
Warming Cabinets

Fan Motor Part Numbers

When replacing the Fan Motor (which comes with the fan blade), check the table below to order the right voltage motor for your model cabinet.

Fan Motors	
W0036	Fan Motor with Fan blade (120V)
W0106	Fan Motor with Fan blade (220V)

Removing and Replacing the Fan Motor

WARNING: The Fan Motor is essential for proper operation of the Warming Cabinet. An authorized experienced technician should replace the motor. An electrical hazard is possible to the warmer and potential injury to personnel.

CAUTION: Turn OFF Circuit Breaker if Warming Cabinet is hard wired to the facility's electrical supply. Failure to do so can cause damage to the Warming Cabinet and injury to personnel.

Unplug and remove the Warming Cabinet from its power supply.

Working on Free Standing Units

1. Remove four 8 X 1-5/8" self-tapping screws (Table 1, Item 4))from outside Top Panel (Table 1, Item 1). Remove outside Top Panel and set aside (Fig. 1).
2. Remove two 8 X 1/2" self-tapping screws (Table 1, Item 3) from the inside Top Panel (Table 1, Item 2). Remove the inside Top Panel and set aside.
3. The motor can now be accessed through the top and also from beneath to disassemble it and install a new motor.
   A. If necessary, remove a cabinet shelf to allow easier access to the bottom of the Drawer Assembly.

Go to Step 4, page 3.

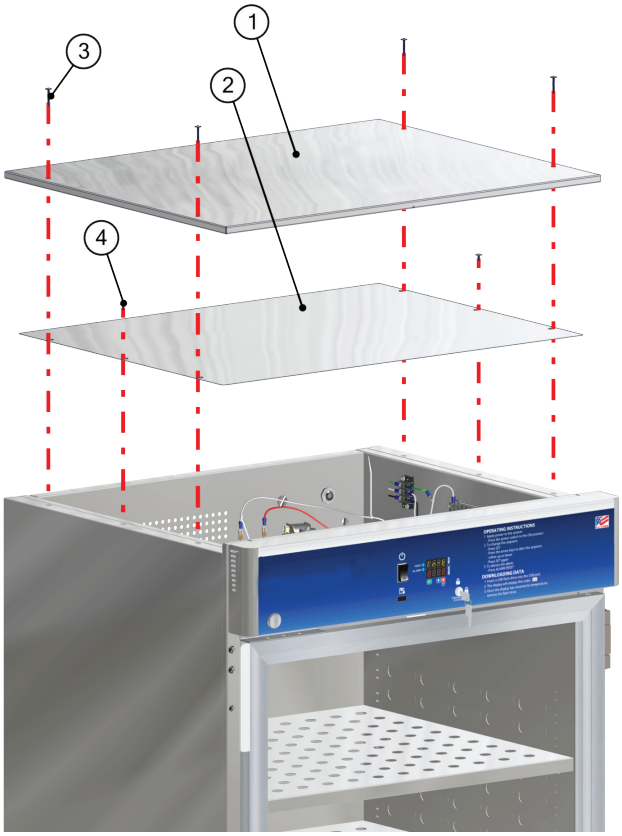


Fig. 1: Remove/re-install Top Panels - Free Standing Units

Table 1 (Fig. 1)		
Item #	DESCRIPTION	QTY
1	Outside Top Panel	1
2	Inside Top Panel	1
3	Screw, self-tapping 8 x 1/2"	2
4	Screw, self-tapping 8 x 1-5/8"	4

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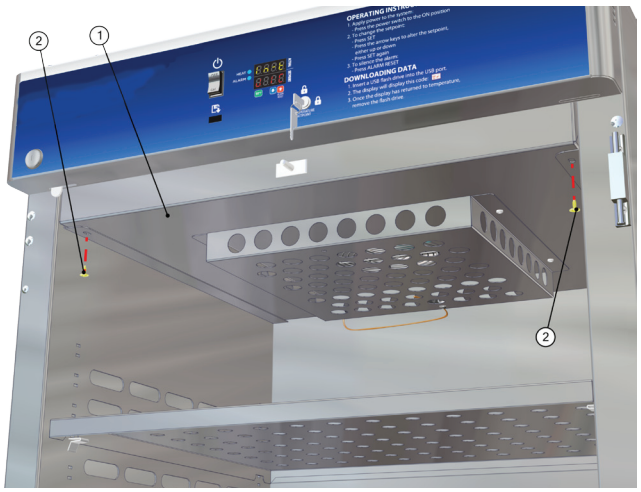


Fig. 2: Remove Drawer Assembly screws

Table 2 (Fig. 2)		
Item #	DESCRIPTION	QTY
1	Drawer Assembly	1
2	Screw, 8-32 X 1/2, Pan Head	2



Fig. 3: Lower Drawer Assembly - Dual Cabinet

Working on Units in Recessed Spaces

For units situated in recessed spaces where the top panels cannot be removed, skip Steps 2 and 3 on page 1 which pertain to free standing units and use this procedure instead.

Open the cabinet door and remove two 8-32 X 1/2 self tapping screws (Table 2, Item 2) located at the bottom front of the Drawer Assembly.

A. Slide the Drawer Assembly (Table 3, Item 1) out approximately 8" along the rail guide of the cabinet. A top Drawer Assembly will come out with the Header Assembly attached. There is no Header Assembly attached to Lower Drawer Assemblies.

   i. In most cases, there is no need to completely remove the Drawer Assembly from the cabinet to change the motor. If complete drawer removal is preferred, unplug the Drawer connectors, plugs and probe wire (items circled in red as shown in Fig. 4, Fig. 5 and Fig. 6).

   ii. For TS series cabinets, in addition to the connectors, plugs and probe wire, unplug the Ethernet connection at the back.

C. Fig. 3 shows a Lower Drawer Assembly on a Dual Chamber cabinet that has been slid out and its components ready for servicing.

D. After sliding out the Drawer Assembly, go to Step 4.

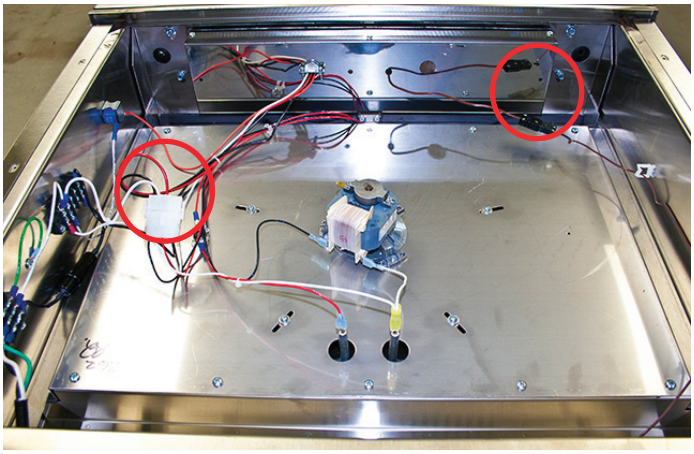


Fig. 4: Unplug connector and probe wire - D Series - Single

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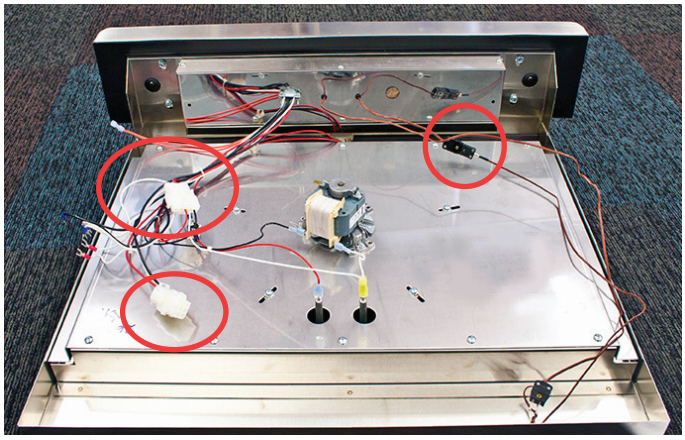


Fig. 5: Unplug 2 connectors & probe wire - D series - Dual

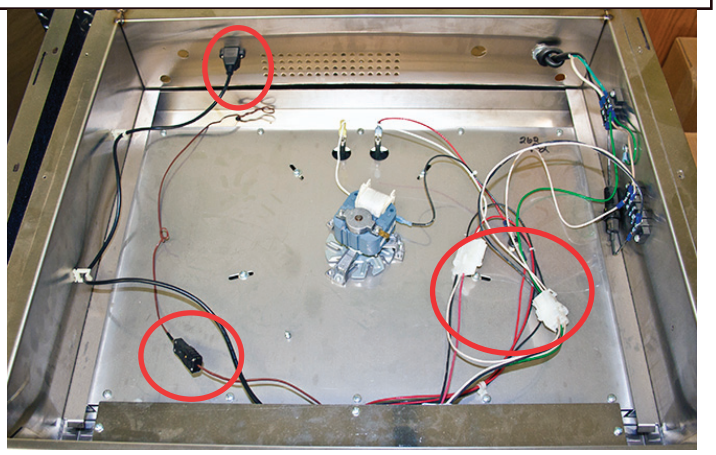


Fig. 6: Unplug 2 connectors, probe wire & plug - TS Series

4. Detach the fan blade by removing four 8-32 X 1/2 self-tapping screws (Table 3, Item 3) from the Air Box (Table 3, Item 4). **Note:** Do not remove the Air Box from the Warming Unit. There is a probe wire attached to the back of the Air Box that could become detached if removal is attempted. Let the Air Box hang from the wire or let the edge of the Air Box rest against the lower panel.
5. Unscrew two 8-32 X 1/2 self tapping screws (Table 3, Item 3) to remove the Fan Guard (Table 3, Item 2). Now the fan motor blade is accessible.

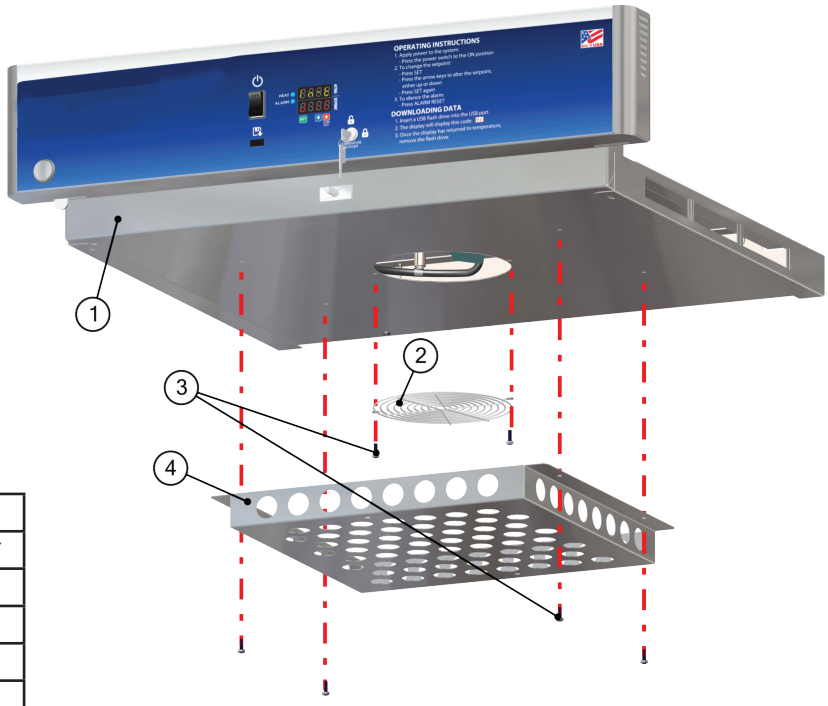


Fig. 7: Exploded view - Airbox and Fan Guard

Table 3 (Fig. 7)		
Item #	DESCRIPTION	QTY
1	Drawer Assembly	1
2	Fan Guard	1
3	Screw, 8-32 X 1/2, Phillips Pan Head	6
4	Air Box	1

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6. Secure the Fan Blade (Table 4, Item 3) to prevent it from turning.
7. The Motor Shaft stud (Table 4, Item 2) has left-hand threads. This prevents the Fan Blade from coming off during normal operations. Turn the 10-32 Hex Nut (Table 4, Item 4) to the right to remove it from the Motor .
8. Remove the Fan Blade and the 10-32 flat washer (Table 4, Item 1) from the Motor Assembly.
9. Once the Fan Blade is removed, re-attach the 10-32 nut (along with the flat washer) to the Motor Shaft, and tighten the nut to finger tight ONLY. Remember, the 10-32 nut has left-hand threads and must be turned to the left to tighten it on the motor shaft

Table 4 (Fig. 8)		
Item #	DESCRIPTION	QTY
1	Washer, 10-32 Flat	1
2	Motor Shaft Stud	1
3	Fan Blade	1
4	Nut, 10-32	1

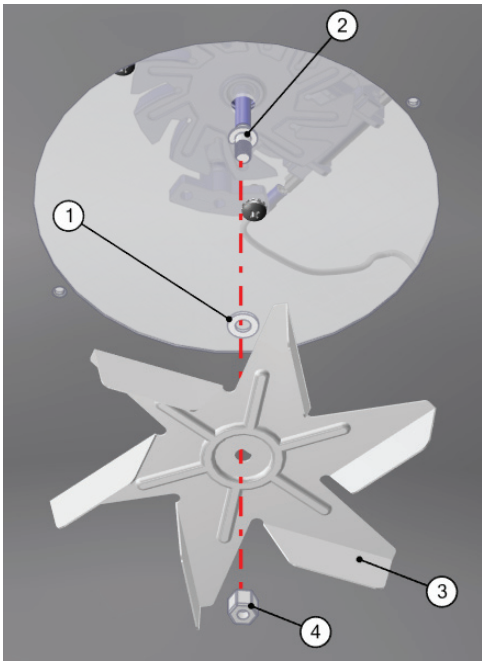


Fig. 8: Exploded View - Fan

Disconnecting and Removing Fan Motor

10. Remove the power (black) wire (Table 5, Item 1) from the Fan Motor (Table 5, Item 2).
11. Remove the ground (white) wire (Table 5, Item 3) from the Fan Motor.
12. From below the Drawer Assembly, loosen the three 10-32 X 1/2" pan head screws located under the fan motor (Table 5, Item 4).
13. Lift out the old Fan Motor from the top. (Table 5 Item 2).

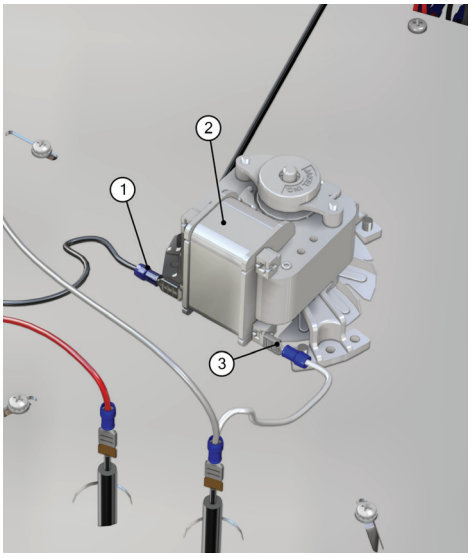


Fig. 9: Motor Wire Connections

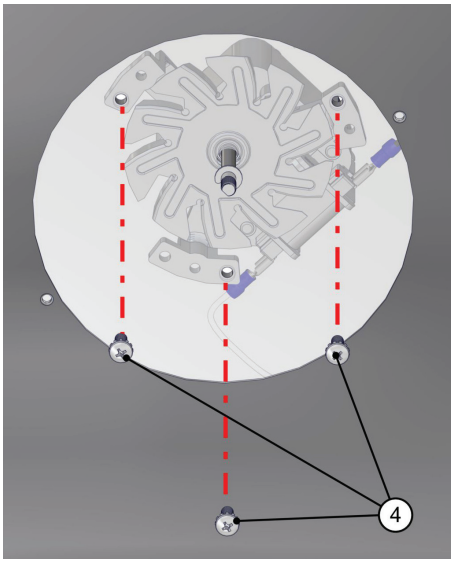


Fig. 10: Remove Motor Screws

Table 5 (Fig. 9 & Fig. 10)		
Item #	DESCRIPTION	QTY
1	Power Lead, Fan Motor, Black	1
2	Fan Motor	1
3	Ground Lead, Fan Motor, White	2
4	Screw 10-32 X 1/2" Pan head with External Lockwasher	3

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Install New Fan Motor

1. Place the new Fan Motor (Table 6, Item 1) on the top of the Element Tray panel in the Drawer Assembly (Table 6, Item 2) and line up the motor fastener holes with the holes on the tray panel.
2. From below, thread the 3 pan head screws back into the Element Tray panell and into the base of the new Fan Motor.
3. Securely tighten the 3 pan head screws to secure the motor firmly against the Element Tray panel.

Table 6 (Fig. 11)		
Item #	DESCRIPTION	QTY
1	Fan Motor	1
2	Element Tray panel	1



Fig. 11: Install New Motor

Connecting the New Fan Motor

1. Attach the power (black) wire (Table 7, Item 1) to the Fan Motor (Table 7, Item 2).
2. Attach the ground (white) wire (Table 7, Item 3) to the Fan Motor.

Table 7 (Fig. 12)		
Item #	DESCRIPTION	QTY
1	Power Lead, Fan Motor, Black	1
2	Fan Motor	1
3	Ground Lead, Fan Motor, White	2

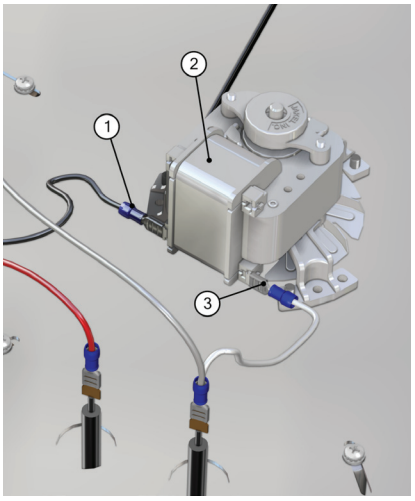


Fig. 12: Motor Wire Connections

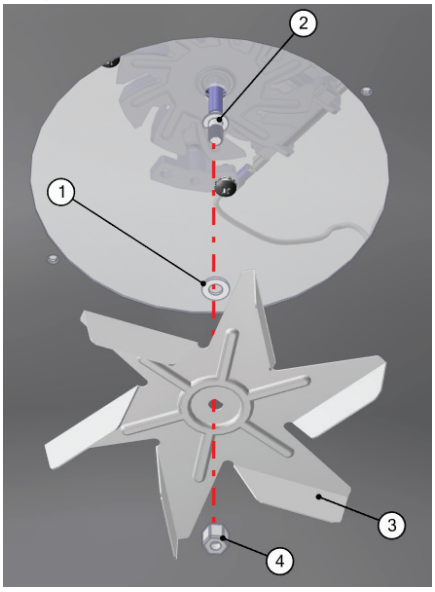


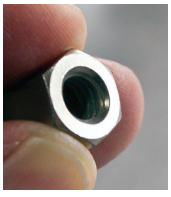
Fig. 13: Exploded View - Fan

Table 8 (Fig. 13)		
Item #	DESCRIPTION	QTY
1	Washer, 10-32 Flat	1
2	Motor Shaft Stud	1
3	Fan Blade	1
4	Nut, 10-32	1

Attaching the Fan Blade

1. Attach the 10-32 flat washer (Table 8, Item 1) on the motor shaft.
2. Attach the new Fan Blade (Table 8, Item 3) by pushing it upwards on the motor shaft until it rests against the 10-32 flat washer installed in Step 1.
3. Secure the Fan Blade preventing it from turning.
4. Install the 10-32 nut (Table 8, Item 4) on the motor shaft until it is tight against the new Fan Blade. **NOTE: The nut counterbore side faces the blade** (Fig. 14). Once applied, the fan should not wobble.
5. The Motor Shaft Stud (Table 8, Item 2) has left-hand threads. This prevents the Fan Blade from coming off during normal operations. Turn the 10-32 Hex Nut to the left to install it on the threaded motor shaft.


Fig. 14: Counterbore side to blade


Fig. 15: Side faces away from blade

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6. Place the Fan Guard (Table 9, Item 2) against the bottom of the Drawer Assembly and align the two tabs with holes in the bottom of the drawer. Install two 8-32 X 1/2" screws (Table 9, Item 3) and attach the guard to the drawer.
7. Place the Air Box (Table 9, Item 4) over the Fan Guard on the bottom of the Drawer Assembly (Table 9, Item 1). Align the four holes in the air box with four holes in the bottom of the drawer. Make sure that the probe wire that is attached to the Air Box is to the rear of the Warming Unit.

Table 9 (Fig. 16)		
Item #	DESCRIPTION	QTY
1	Drawer Assembly	1
2	Fan Guard	1
3	Screw, 8-32 X 1/2, Pan Head	6
4	Air Box	1

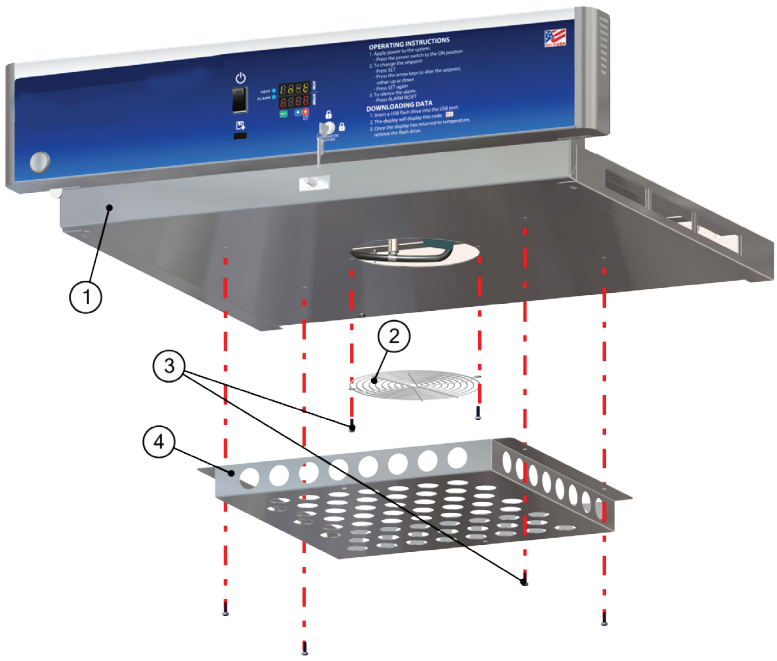


Fig. 16: Exploded view - Airbox and Fan Guard

8. Install four 8-32 X 1/2" screws (Table 9, Item 3)) to attach the air box to the bottom of the drawer.
9. **Finishing the Cabinet Re-assembly for Free Standing Units**
   A. Re-install the outer and inner top panels, securing with two 8 X 1-5/8" self-tapping screws (Table 1, Item 4) to the Inside Top Panel (Table 1, Item 1) and four 8 x 1-5/8" self-tapping screws to the Outside Top Panel (Fig. 1).
10. **Finishing the Cabinet Re-assembly for Units Situated in Recessed Walls**
   A. Plug in the unplugged connectors, plugs and probe wire. (Fig. 4, Fig. 5 or Fig. 6). If a TS series unit, also plug in the Ethernet connection.
   B. Slide the Drawer Assembly back into the Warming Cabinet.
      iii. **Important: Ensure proper door switch operation -** For both steel and glass door units, the top Drawer Assembly should be re-installed to sit flush with the front surface of the door frame edge. For steel door units, the lower Drawer Assembly front surface should sit flush with the front surface of the door frame edge. For glass door units, the lower Drawer Assembly front surface should be re-ijnstalled to sit recessed up to 1/8" below the front surface of the door frame edge.
   D. Align the two holes (located bottom-front) on the drawer with the two holes in the rail guides in the Warming Cabinet. Secure the Drawer Assembly to the cabinet guide rails by attaching two 8-32 X 1/2" self-tapping screws (Table 1, Item 2) into the holes of the guide rails of the cabinet (Fig. 1).