

Instructions for Service Kits 46653 and 46864 PS536 Gas Oven Rear Compartment Update Kits

KIT COMPONENTS:

Both Kits:

Qty.	P/N	Description
2	46537	Bearing, with Krytox® grease
2	46601	Gasket, bearing mounting
1	46591	Baffle, cooling fan
1	46568	Rear wall
6	21292-0001	Screw, hex wshr head #10-16 x 3/4"
2	21296-0005	Screw, hex wshr head #12-14 x 3/4", stainless steel
1	46654	Instructions

Kit P/N 46653 (USA 60 Hz ovens) ONLY:

Qty.	P/N	Description
1	44688	Plate, motor mounting
1	45348	Pulley, blower motor shaft

TOOLS REQUIRED:

- Wrench with set of hex sockets
- Screwdriver with set of hex sockets
- Flathead screwdriver
- Hex key set

This Service Kit will update one PS536 gas oven with the following changes:

- Replacement of both blower shaft bearings with bearings using high-temperature Krytox grease.
- Installation of insulating gaskets between the bearings and the inner back wall of the oven.
- Installation of a baffle around the cooling fan to improve airflow to the fan.
- Installation of a new back wall on the oven to increase ventilation.

For USA (60 Hz) ovens, the Kit will also reduce the blower speed from 2800 to 2400 RPM. This involves:

- Replacement of the blower motor pulley.
- Replacement of the blower motor mounting plate. This allows the existing belt to be used with the new pulley.



WARNING

BEFORE PERFORMING ANY SERVICE WORK, THE ELECTRICAL POWER SUPPLY AND THE GAS SUPPLY MUST BE TURNED OFF.

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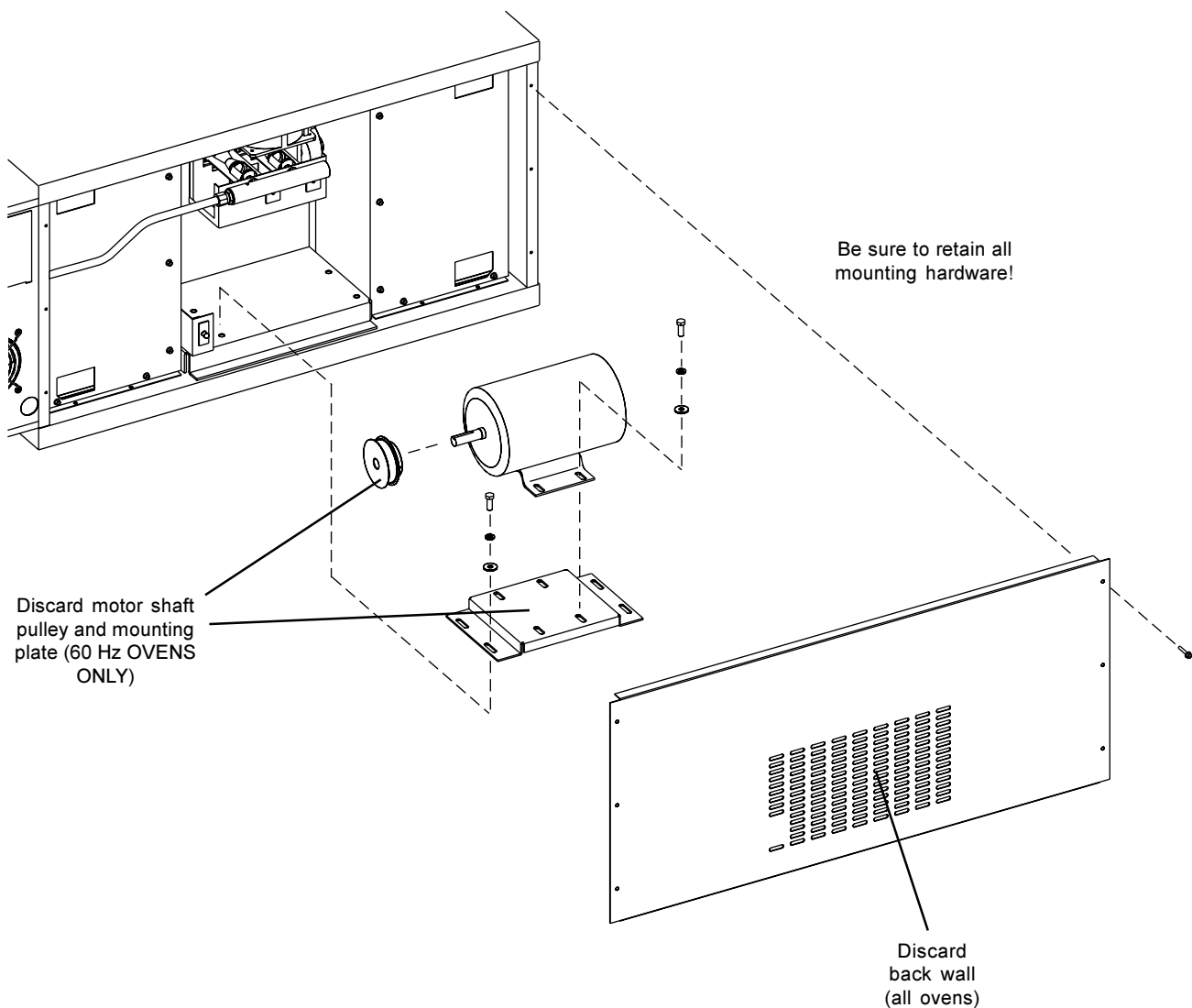
I. PREPARATION

1. Check that ALL of the kit components are present BEFORE proceeding with the kit installation.
2. Turn off the electric power supply to the oven at the circuit breaker/fused disconnect.
3. Turn off the gas supply at the service valve behind the oven.

II. DISASSEMBLY

1. Remove and discard the 6 hex screws that hold the back wall in place on the oven. Then, remove and discard the back wall panel. See Figure 1.
2. Remove AND RETAIN the four hex bolts, flat washers, and lockwashers that hold the motor mounting plate to the oven floor.
3. Disconnect the blower motor wiring.
4. Remove the motor and mounting plate from the oven. As you remove the motor, slip the drive belt off the pulley.
5. FOR 60 Hz OVENS ONLY, remove and discard the pulley from the end of the motor shaft.
6. FOR 60 Hz OVENS ONLY, remove and discard the motor mounting plate. Be sure to retain the mounting hardware.

Figure 1



III. BEARING REPLACEMENT AND GASKET INSTALLATION

1. Locate the inner rear panel on the NON-CONTROL end of the oven. Then, find the 3 screws along each side of the panel (6 total). Remove AND RETAIN the screws. Then, remove and retain the panel. See Figure 2.

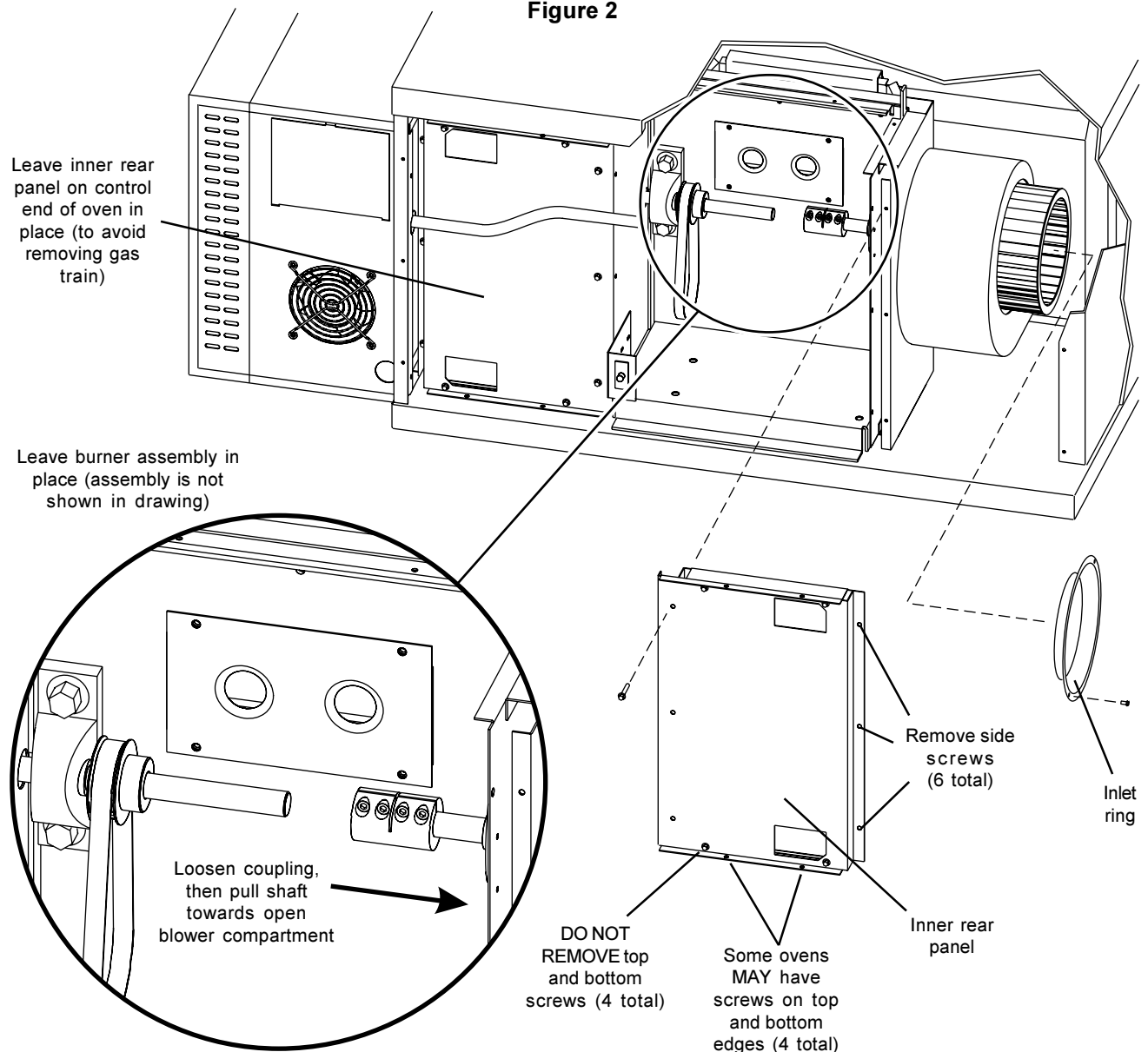
On some ovens, up to 4 additional screws may attach the top and bottom of the panel to the floor and roof of the oven. These screws, if present, should be removed as well.

DO NOT remove the 4 top and bottom screws shown in Figure 2. These screws hold the panel together.

2. Remove the inlet ring from inside the blower wheel's compartment.
3. Loosen the screws on the center coupling. Then, pull the two sections of the shaft apart.

4. Remove the coupling and pulley from the shaft.
5. Remove the 2 hex bolts that hold each bearing to the inner back wall of the oven. Slide each bearing towards the break in the blower shaft. Then, remove and discard the bearings.
6. Slip the new bearings onto the shaft. When each bearing is correctly positioned, FIRST slip a gasket in place underneath the bearing, THEN fasten the bearing in place with the original hex bolts.
7. Replace the pulley and coupling onto the shaft.
8. Slide the shaft sections together, and tighten the coupling screws.
9. Replace the inlet ring.
10. Check that the shaft rotates freely. If necessary, reposition the bearings.
11. Replace the inner rear panel into the oven.

Figure 2



IV. MOTOR MOUNTING PLATE AND PULLEY REPLACEMENT (60 Hz OVENS ONLY)

IMPORTANT: Performing the procedures in this section reduces the blower speed from 2800 RPM to 2400 RPM on 60 Hz ovens. 50 Hz ovens already operate at 2400 RPM, and **SHOULD NOT** receive these changes!

1. Install the kit-supplied motor mounting plate onto the motor using the original hardware. Leave the bolts slightly loose to allow the motor to be repositioned after it is installed into the oven.
2. Install the new pulley onto the end of the motor shaft.
3. Replace the motor assembly into the oven. As you position the motor, slip the drive belt back over the pulley.
4. Fasten the motor mounting plate to the floor of the oven using the original hex bolts.
5. Slide the motor on the mounting plate until the belt is correctly tensioned to a 1/4" deflection.
6. Tighten the bolts that hold the motor to its mounting plate. Then, reconnect the motor wiring.

V. COOLING FAN BAFFLE

1. For CE ovens, check if there is a baffle in between the burners and the cooling fan as shown in Figure 3. If the baffle is present, remove and discard it, but retain the mounting screws.
2. Position the kit-supplied cooling fan baffle as shown in Figure 3. On some ovens, there will be two mounting holes for the baffle already present on the burner support bracket.
3. If you removed an existing baffle from the oven, use the original mounting screws to fasten the new baffle in place. Otherwise, use the kit-supplied #12-14 x 3/4" stainless steel self-tapping screws. See Figure 3.

VI. BACK WALL AND FINAL ASSEMBLY

1. Install the new back wall using the kit-supplied #10-16 x 3/4" hex washer head screws.
2. Reconnect the electrical and gas utility connections to the oven.

Figure 3

