

	ITW EAE Service & Support WORK INSTRUCTION	DOC. #: 9-205653
	TITLE: LDB MOTOR REPLACEMENT KIT # 9-205692	EFF. DATE: 4/13/2023

Change History:

REV.	DESCRIPTION OF CHANGE	DATE	ORIGINATOR
1	Initial release	02/20/1992	Daryl Hintz
2	Changed motor mounting	3/20/2013	Dan Buysse
3	Changed motor part number and wiring	4/13/2023	Dan Buysse
4	Added Ground Wire	6/27/2023	Dan Buysse

Version Review & Approval:

REV.	REVIEWER	TITLE	DATE

Purpose:

This kit is provided to facilitate the replacement of the motor in the LDB and LAC1-10 batch ovens. Please review these instructions carefully before starting. Some components have been preassembled for your convenience.

Scope:

This instruction only applies to kit part number 9-205692 when used on all LDB models and the LAC1-10 model.

Prerequisites:

Only qualified Electricians or Maintenance Personnel should attempt to install this upgrade.

This kit consists of:

one (1) P/N 9-411339 Motor
 one (1) P/N 9-105264 Motor Base
 one (1) P/N 9-205653 Instruction Sheet
 four (4) P/N 9-018122 10-32NM Lock Nuts
 two (5) P/N 9-016016 Shaft Seals
 four (4) P/N 9-272558 1/4" Screws
 two (2) P/N 9-012994 Wire Nuts
 four (4) P/N 9-008487 #10-32 Nut Hex
 one (1) P/N 9-WL1538 Ground Wire

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Tools Required:

Flat Head Screwdriver
1/8" Allen Wrench
1/4" Socket Set
7/32" Drill Bit, and Drill

Preparation:

- Step 1 Turn the Power and Heater switches OFF and disconnect power completely from the oven.
- Step 2 Remove the shelves from inside of the chamber.

Motor Removal:

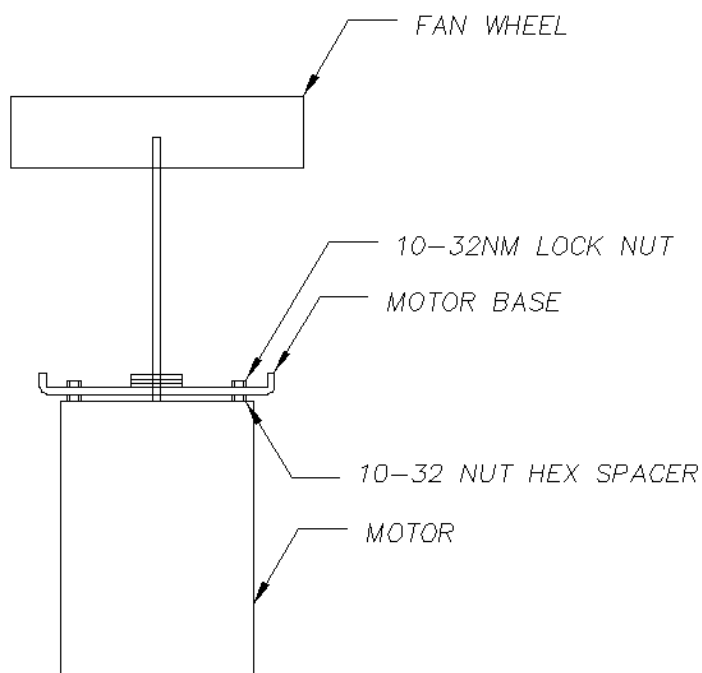
- Step 3 Remove the screws in front that hold the perforated floor plate in place.
- Step 4 Slide the floor plate forward and lift out of the oven.
- Step 5 Remove the screws from the heater frame and tip the heater up and out of the way exposing the fan wheel.
- Step 6 Loosen the two set screws on the fan wheel hub inside the fan housing.
- Step 7 Tip oven on its back or side.
- Step 8 Remove the four (4) screws from the face of the control panel.
- Step 9 Remove the screws from the bottom floor plate and slide the plate out from under the control panel and exposing the motor.
- Step 10 Unbolt the four (4) nuts holding the motor mount to the body.
- Step 11 Remove the motor. The fan wheel may stick to the shaft and some force may be required to separate the two. Suggest holding the fan wheel against the insulated wall while using a mallet and center punch to loosen the shaft from the wheel.
- Step 12 Disconnect the motor leads from the terminal strip on the control panel and the ground lead from the grounding stud.

Install New Motor:

- Step 13 Thread 4 10-32 hex nut spacers on to motor mounting studs. Place the new motor on the motor base and attach it to the base with the 10-32NM lock nuts as shown below.

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Tighten nuts carefully and verify that the motor turns freely. Over tightening can cause the motor to bind up.



Step 14 There may be existing holes to use to mount the new motor to the oven. If not, Drill four (4) new 7/32" holes into the body to attach the new motor base after centering the motor in the collar opening. Attach the new base to the body with four (4) thread forming screws provided.

Motor Wiring:

Step 15 Attach the motor leads as per the table below. This New Motor cannot be setup in a dual voltage arrangement (Motor Leads wired to Four Terminals). You must pick **Two** Terminals from these four terminals to wire up the new motor. Measure the voltage across the two terminals to determine if the voltage is 120V or 240V. Attach the green ground lead to one of the capacitor mounting studs and to the oven body the grounding stud.

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LINE VOLTAGE	MOTOR LEADS			
	LINE 1 (Terminal #1)	LINE 2 (Terminal #2)	TIED TOGETHER *	NOT USED **
120 VOLT	WHITE & RED	BLACK	ORANGE & BLUE	NONE
240 VOLT	WHITE	BLUE	RED & BLACK	ORANGE

- * These leads should have a wire nut to tie them together
 ** This lead should have a wire nut on the end for isolation.

Step 16 Replace the bottom floor plate and the screws holding it in place.

Step 17 Replace the control panel and the screws holding it in place. The bottom of the panel slides over the edge of the floor plate.

Reinstall the Fan Wheel:

Step 18 Tip the oven upright again.

Step 19 Reattach the fan wheel to the shaft by inserting the shaft into the shaft collar opening and putting the wheel on the shaft from inside the chamber.

Step 20 Adjust the fan wheel for 3/16" clearance between the top of the wheel and the bottom edge of the inlet ring on the fan housing.

Step 21 Tighten the set screws making sure the screw hits the flat part of the motor shaft.

Reinstall Heater:

Step 22 Replace the heater and the screws holding it in place.

Step 23 Replace the perforated floor and the screws holding it in place.

Testing the Motor:

Step 24 Reconnect the power to the oven and turn the power switch on. The fan should be running.

Final Assembly:

Step 25 Replace the shelves back into the chamber. Turn the heater switch on and the heater "ON" light should come on.

Step 26 The oven is now ready for use.