

# Dynabug® II

## Drop-In Motor Instructions

PD13.04R  
February, 2017  
Supersedes PD13.04

### Dynabug® II Air Motor Replacements – 3/32" Dia. Orbit



Part No.	Orbit Dia.	Pad Dia.
59469	3/32" (2.5 mm)	All Diameters

## Replacement Instructions

57874 Repair Kit is available which includes special repair tools for the correct removal and replacement of the air motor (see below).

**Disconnect tool from power source before motor exchange**

### Removal

1. Disconnect the sander from the air supply.
2. Invert the sander, and place the **57092** Repair Collar (supplied in the **57874** Repair Kit) around the housing and secure in a vise. Padding can be used on the vise jaws to protect the housing. **Important:** Do not over tighten the sander in the vise. If the sander is held too tight the removal of the lock ring and air motor will be difficult.
3. Use a Phillips Screwdriver to remove **96539** Screws (4), **96538** Washers (4) and sanding pad.
4. Insert a 3/16" dia. drive punch through one of the holes in the pad base to prevent the shaft balancer from rotating. Use **95266** 3 mm Hex Key (sold separately) to remove **95344** Screw along with **95935** Washer by turning it counterclockwise.
5. Position two flat blade screwdrivers between the counterweight and the bearing area of the pad base. Pry the pad base away from the housing.
6. Insert **56058** Lock Ring Tool (supplied in the **57874** Repair Kit) into the corresponding tabs of the lock ring. Loosen the lock ring turning it counterclockwise.
7. Pull the motor out of the housing.
8. Discard the air motor assembly.

**Waste Disposal:** Use standard landfill methods consistent with applicable Federal, State, Provincial and Local laws.

### Installation

**Important:** Clean and inspect the housing, valve mechanism, and exhaust assembly. Replace any valve, muffler, or vacuum components as is necessary.

Follow all torque and lubrication specifications (see tool manual supplied with sander).

1. Apply 1 drop of oil to the **01024** O-Ring. (supplied with the drop-in air motor assembly.)
2. **MARK** the edge of the housing motor opening to identify the location of the line-up notch on the inside of the housing.
3. Align the cylinder line-up pin with the '**NOTCH LOCATION MARK**' and install the drop-in motor into the housing. (**Note:** Be certain that the line-up pin enters the notch in the housing.)
4. Use **56058** Lock Ring Tool to tighten lock ring by turning it clockwise. Torque to 17 N•m/150 lbs. in. (**Note:** Apply a slight amount of pressure down onto the lock ring while turning the lock ring tool counterclockwise. The lock ring should find the thread. Secure the lock ring by turning it clockwise.)
5. Check shaft balancer to see if the **57896** Felt Seal is still retained, if not place felt seal onto shaft balancer.
6. Use the arbor press and the small end of the **57091** Bearing Press Tool to carefully install the pad base with the bearing onto the shaft balancer. Align **57890** Isolator Post (4) with the 4 mounting holes in the pad base.
7. Insert a 3/16" dia. drive punch through one of the holes in the pad base to prevent the shaft balancer from rotating. Apply a small amount of the Loctite® #243 (or equivalent) to the internal threads of the shaft balancer and install **95344** Screw along with **95935** Washer. Torque to 5 N•m/45 lbs. in.
8. Use a Phillips Screwdriver to install **96539** Screws (4), **96538** Washers (4) and sanding pad. (**Note:** When installing a vacuum pad orient the open oval pocket in the pad toward the back of the sander so that it will align with the vacuum tube.)

### Drop-In Motor Replacement Complete

**Important:** Before connecting the sander to the air supply, depress the throttle lever and place 2-3 drops of **95842** Dynabrade Air Lube directly into the air inlet. The sander should now be tested at 90 PSIG operating pressure at the sander. Operate the sander for 30 seconds to determine if it is operating properly and to allow the lubricating oil to permeate the air motor.

## Optional Dynabrade Accessories

### 57874 Repair Kit

Special tools for proper disassembly/assembly of the Dynabug® II sander.

**57092** Repair Collar

**56058** Lock Ring Wrench

**57091** Bearing Press Tool

**96034** 12 mm Hex Wrench

**95266** 3 mm Hex Wrench

**96066** 3/4" Socket



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