

Dynorbital® Silver Supreme Drop-In Motor Instructions

Parts Page Reorder No. PD13•03
Effective February, 2013
Supersedes PD09•05

For All Dynorbital® Silver Supreme Air Motor Replacements



Orbit Dia.	3"	3-1/2"	5"	6"
3/8"	69450	69453	69456	69459
3/16"	69451	69454	69457	69460
3/32"	69452	69455	69458	69461

Replacement Instructions

Drop-In Motor Repair Kit P/N 59459 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 59459 Drop-In Motor 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. Remove the sanding pad with the 50679 Open-end Wrench (26 mm, supplied with Dynorbital-Spirit®).
4. Insert the 56058 Lock Ring Tool (supplied in the 59459 Drop-In Motor Repair Kit) into the corresponding tabs of the lock ring. Loosen the 59058 Lock Ring turning it counterclockwise.
5. Remove the 59058 Lock Ring from the air motor assembly (**Note:** Applies only to 3/16" and 3/32" diameter orbits).
6. Discard the air motor assembly.

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 Parts Page Manual supplied with sander).

1. Place the 59058 Lock Ring over the motor shaft balancer (**Note:** Applies only to 3/16" and 3/32" diameter orbits).
2. Apply 1 drop of oil to the 69352 Seal (supplied with the drop-in air motor assembly).
3. With the sander housing secured in a vise (use the 57092 Repair Collar or padding on the jaws of the vise to protect the housing) slide the drop-in motor into the housing aligning the line-up pin with the notch on the inside of the housing. **Note:** Make certain that the line-up pin enters the notch in the housing and that the 69352 Seal remains seated to the side of the cylinder.
4. Tighten the lock ring with the 56058 Lock Ring tool (Torque to 28 N•m/ 250 in.-lbs.).
5. Install a Dynabrade weight-mated sanding pad.

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.

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

Optional Dynabrade Accessories

59459 Drop-In Motor Repair Kit

Special tools for proper removal and installation of the Dynorbital® Silver Supreme drop-in motor.

57092 Repair Collar

56058 Lock Ring Wrench



57098 Full Service Repair Kit

Special tools for proper disassembly/assembly of the Dynorbital® Silver Supreme sander.

57092 Repair Collar

56058 Lock Ring Wrench

56056 Bearing Puller

57091 Bearing Press Tool

57099 Bearing Puller

96034 12 mm Hex Wrench

96066 3/4" Socket



10 Pack of Drop-In Motors

69467 3", 3/8" Orbit

69468 3", 3/16" Orbit

69469 3", 3/32" Orbit

69470 3-1/2" Dia., 3/8" Orbit

69471 3-1/2" Dia., 3/16" Orbit

69472 3-1/2" Dia., 3/32" Orbit

69473 5" Dia., 3/8" Orbit

69474 5" Dia., 3/16" Orbit

69475 5" Dia., 3/32" Orbit

69476 6" Dia., 3/8" Orbit

69477 6" Dia., 3/16" Orbit

69478 6" Dia., 3/32" Orbit



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