

Dynabug® “Model T” Sander

Motor Assembly/Disassembly Instructions

Important: Manufacturers warranty is void if tool is disassembled before warranty expires.

A complete Tune-Up Kit, part number **96169**, is available which includes high and medium repair parts.

To Disassemble

1. Disconnect tool from power source.
2. Unhook **57980** Spring Clips and remove sanding pad (if necessary).
3. Unscrew **95405** Button Head Screws (4).
4. Remove **57980** Spring Clips (if equipped) and lift **57982** Clip Retainer up about 1/2", to expose **57987** or **57997** Base Plate Assembly.
5. Remove **57988** Hose from **57987** or **57997** Base Plate Assembly.
6. Disassemble housing assembly from base plate assembly, by pulling apart.
7. Invert assembly and insert adjustable pin spanner wrench or **50971** Lock Ring Wrench to **57979** Motor Shaft, and remove (**LEFT-HAND THREADS**).
8. Remove **58092** Spacer from motor shaft. **Note:** Spacer orientation on motor shaft.
9. Remove **57981** Turbine Wheel Assembly. **Note:** Turbine orientation of wheel assembly on motor shaft.

To Assemble:

Important: Be certain parts are clean and in good repair before assembling.

1. Slide **57983** Base Plate Door onto **57979** Motor Shaft.
2. Replace **57981** Turbine Wheel Assembly on motor shaft using the same orientation as when it was disassembled.
3. Replace **58092** Spacer on motor shaft using the same orientation as when motor was disassembled.
4. Install **97121** O-Ring onto base plate assembly.
5. Apply a slight amount of #271 Loctite® (or equivalent) to threads of **57979** Motor Shaft and install onto base plate assembly, torque 15 N•m/133 in. - lbs.
6. Install **57988** Inlet Hose assembly into housing. Apply some grease to **12156** O-Ring and install.
Note: Speed regulator should be installed at this time. Slide other end of tube over barb fitting in base plate.
7. Install housing assembly onto base plate assembly.
8. Install **57980** Spring Clips onto base plate assembly (if necessary).
9. Slide **57982** Clip Retainer down onto **57987** or **57997** Base Plate Assembly and install **95405** Button Head Screws (4), torque 3.4 N•m/20 in. - lbs.

Tool Assembly Complete. Please allow 30 minutes for adhesives to cure before operating tool.

Valve and Speed Regulator Assemblies:

1. Secure housing in vice using **57092** Collar or padded jaws.
2. Remove inlet bushing, **01468** Spring, **01472** Tip Valve and **01464** Seal from housing.
3. Remove **95697** Snap Ring. Push the speed regulator and valve stem out of the housing. Remove the **01025** O-Rings (2).
4. Place new **01025** O-Rings (2) on the speed regulator and place in housing with valve stem. Install new **95697** Snap Ring.
5. Place new **01464** Seal in housing, using tweezers or needle nose pliers, place the tip valve into housing so that the pin goes through the hole in the valve stem. Place new **01468** Spring into housing so small end is towards tip valve.
6. Spread 1 drop of #567 Loctite® (or equivalent) around the threads of the inlet bushing and tighten into housing to 23 N•m/200 in. - lbs.

Note: This tool is an oil-free Dynabrade Tool. Therefore no air lube should be placed into the tool. Operate the machine for approximately 30 seconds before application to workpiece to determine if machine is working properly and safely.

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