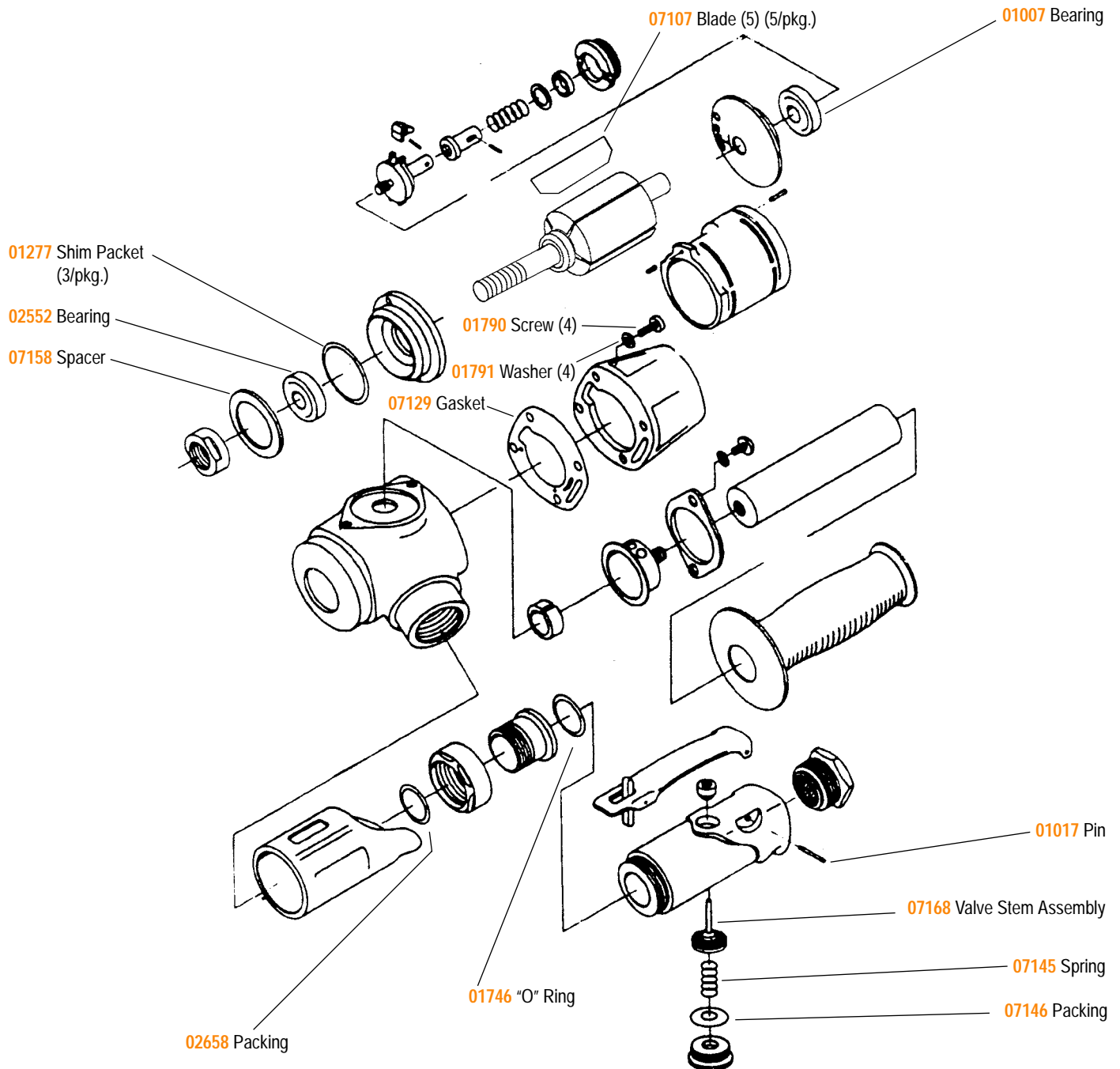


For use with Models:
50303, 50304, 50307

96041 Motor Tune-Up Kit

Parts included in tune-up kit are identified by part number. Not all parts are required for all tools. Disassembly/Assembly instructions may not apply to all models, please refer to appropriate parts page for additional identification and disassembly/assembly instructions.



See reverse side for tune-up instructions.

Tune-Up Kit Instructions

Parts included in tune-up kit are identified by part number. Disassembly/Assembly instructions may not apply to all models, please refer to appropriate parts page for additional identification and disassembly/assembly instructions.

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

Tool Disassembly:

1. Disconnect tool from power source.
2. Insert **01697** Inlet Bushing securely into vise.
3. Roll **07136** Grip Back away from housing.
4. Remove **02631** Nut by using a 32mm wrench (P/N **96079**).
5. Separate valve body from housing.
6. Remove **07190** Screws (4) and **01791** Washers (4) from **07123** Housing Cap. Remove housing cap and **07129** Gasket.

Motor Disassembly:

1. Grip onto governor cage assembly and pull motor assembly from housing.
Note: If motor assembly does not come out freely, gently tap tool rotor side down to "pop" motor from housing.
2. Remove governor cage assembly from **07104** Rotor (left hand thread).
3. Insert a tap pin into rear bearing plate and press the **07104** Rotor from the rear bearing plate.
4. Place motor assembly in softjaw vise.
5. Remove **07135** Rotor Nut with an adjustable wrench.
6. Remove **07120** Front Bearing Plate and **02552** Front Bearing from **07104** Rotor.
7. Remove cylinder and blades from rotor.

Motor disassembly complete.

Motor Reassembly:

Important: Be certain all parts are cleaned, properly greased and in good repair before reassembly.

1. Slide **07120** Front Bearing Plate with **02552** Front Bearing in place on to **07104** Rotor.
2. Place the correct number of shims from the **01277** Shim Pack between the front bearing and front bearing plate to achieve a .0020 inch spacing between the front bearing plate and **07104** Rotor when forward pressure is applied to both the bearing plate and the rotor.
3. Tighten **07135** Rotor Nut onto rotor, torque
4. Place the blades into rotor slots. Blades should be lightly lubricated with Dynabrade Air Lube P/N **95842** (or equivalent) before installation in rotor slots.
5. Place cylinder over rotor and blade assembly. The scalloped end goes towards the front plate.
6. Place the **07114** Rear Bearing Plate (with **01007** Bearing pressed into place) over the rotor and line-up short pin on cylinder with the small hole in the rear plate and press into place.
7. Place the tool into a soft jaw vise and tighten the governor assembly (**07124** Governor Cage) torque 9.0 N•m/80 in. - lbs. (left hand thread).
8. Place complete motor assembly into housing.
9. Tighten **02626** Adjustment Bushing into housing torque 50 N•m/450 in. - lbs.
10. Apply 2 drops of #271 Loctite® (or equivalent) to threads of adjustment bushing before tightening.
11. Tighten valve body into housing torque 39.5 N•m/350 in. - lbs.
12. Secure inlet bushing into vise. Replace **02631** Nut and **01746** O-Ring. Swivel **07141** Valve Body to desired throttle lever position.
13. Tighten **02631** Nut to 45 N•m/400 in. - lbs.
14. Roll **07136** Grip back into place.

Tool assembly is complete. Please allow 30 minutes for adhesives to cure before operating tool.

Important: Motor should now be tested for proper operation at 90 PSI. If motor does not operate properly or operates at a higher RPM than marked on the tool, the tool should be serviced to correct the cause before use. Before operating, place 2-3 drops of Dynabrade Air Lube (P/N **95842**) directly into air inlet with throttle lever depressed. Operate tool for 30 seconds to determine if tool is operating properly and to allow lubricating oils to properly penetrate motor

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