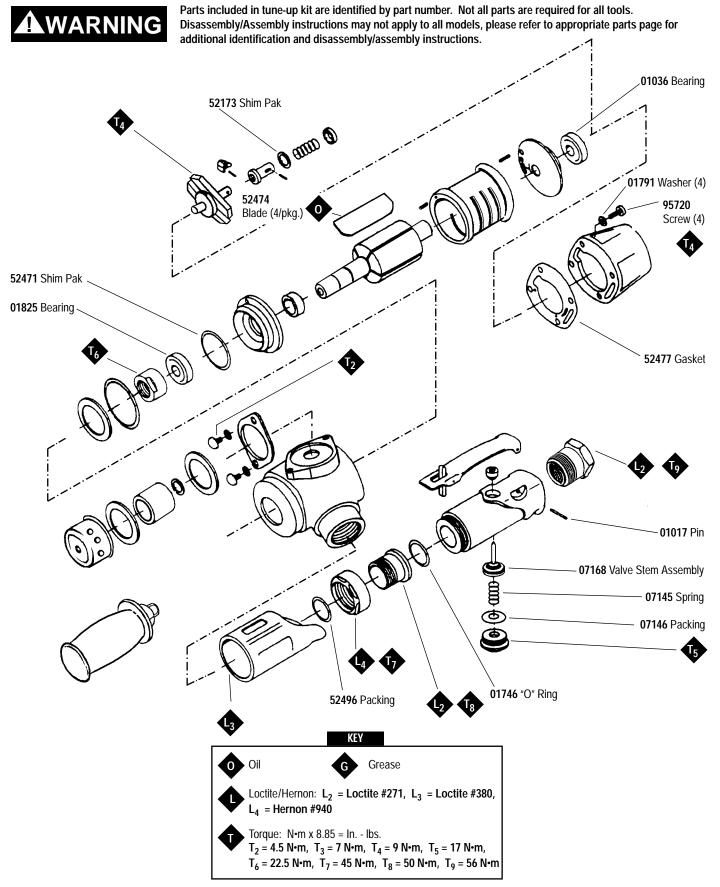
For use with Models: 11450, 11477, 52450, 52451, 52452, 52453, 52454, 52455

96259 Motor Tune-Up Kit



Tune-Up Kit Instructions

Tool Disassembly:

- 1. Disconnect tool from power source.
- 2. Remove back-up pad with a 24mm wrench (P/N 95304).
- 3. Insert 01697 Inlet Bushing securely into vise.
- 4. Roll 07136 Handle Grip Back away from housing.
- 5. Remove 52495 Nut by using a 32mm wrench (P/N 96079).
- 6. Separate valve body from housing.
- 7. Remove 95720 Screws (4) and 01791 Washers (4) from 52461 Housing Cap. Remove housing cap and 52477 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 52466 Rotor (left hand thread).
- 3. Insert a tap pin into rear bearing plate and press the 52466 Rotor from the rear bearing plate.
- 4. Place motor assembly in softjaw vise.
- 5. Remove 01823 Washer and 01835 Shim from assembly.
- 6. Remove 01815 Rotor Nut with an adjustable wrench. Twist rotor nut from shaft
- 7. Remove **52475** Cylinder, blades (4) and spacer from rotor.
- 8. Remove 52472 Front Bearing Plate, front bearing and shims from 52466 Rotor. Note: Bearing, front bearing plate and spacer are a slip fit into rotor.
- **9.** Press **01036** Bearing from bearing plate.

Motor disassembly complete.

Motor Reassembly:

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

- 1. Place **52466** Rotor in padded vise with threaded spindle facing upwards.
- 2. Slip 52467 Spacer onto rotor.
- 3. Place .002" shim into front bearing plate as initial spacing and slip 01825 Bearing into plate. Note: 52471 Shim Pak contains .001" and .003" shims.
- 4. Install bearing/bearing plate assembly onto rotor.
- 5. Install 01815 Rotor Nut onto assembly.
- **6.** Tighten rotor nut onto rotor, torque 22.5 N•m/200 in. lbs.
- Check clearance between rotor and bearing plate by using a .001" feeler gauge. Clearance should be at .001" to .0015". Adjust clearance by repeating steps 1-5 with different shims if necessary.
- 8. Once proper rotor/gap clearance is achieved, install well lubricated 52474 Blades (4) into rotor slots. Dynabrade Air Lube P/N 95842 (or equivalent) is recommended for lubrication before installation in rotor slots.
- 9. Install cylinder over rotor.
- 10. Press the 01036 Rear Bearing into 52476 Rear Bearing Plate. Press bearing/bearing plate assembly onto rotor. Be sure that pin and air slot line-up with pin hole and air inlet slot in cylinder.
- 11. Place the tool into a soft jaw vise and tighten the governor assembly (52478 Governor Cage) torque 9.0 N·m/80 in. lbs. (left hand thread).
- 12. Place 01835 Shim and 01823 Washer into housing.
- 13. Install 52477 Gasket and 52461 Housing Cap with 95720 screws and 01791 Washers, tighten screws to 9 N·m/80 in. Ibs.
- 14. Place complete motor assembly into housing. Be sure motor drops all the way into housing.
- 15. Motor adjustment must now be checked. With motor housing still mounted in vise, pull end of rotor and twist (10-15 lbs. force), rotor should turn freely without drag. If drag or rub is felt, then increase preload or remove shim. Also, push end of rotor and twist (10-15 lbs. force), rotor should turn freely without drag. If drag or rub is felt, then deload or add a shim.
- 16. Apply 2 drops of #271 Loctite® (or equivalent) to threads of adjustment bushing before tightening.
- 17. Slip 52491 Bushing through 52495 Nut and packing, and secure into housing.
- 18. Tighten 52491 Adjustment Bushing into housing torque 50 N·m/450 in. lbs. Tighten valve body into housing.
- 19. Secure inlet bushing into vise. Place 52495 Nut and 01746 O-Ring onto valve body. Swivel 52494 Valve Body to desired throttle lever position.
- 20. Tighten 52495 Nut to 45 N•m/400 in. lbs. 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 thirty seconds to determine if tool is operating properly and to allow lubricating oils to properly penetrate motor. Loctite® is a registered trademark of Loctite Corp.

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