

Disassembly Instructions – 100,000 RPM Turbine, Hand-Held, Pencil Grinder Models: 51810, 51811, 51812, 51813

Important: Use these instructions along with tool parts page or manual.

Notice: Shut off air supply. Open 53582 ON/OFF Valve to deplete remaining air.

- Disconnect tool from air supply hose.
- Push **51789** O-Ring down to expose housing cross-hole. Use **95731** Wrench (8 mm) and **51694** Pin Wrench to remove accessory from collet.
- Remove 51657 Collet Cap and insert. Notice: If needed, use 96486 Collet Insert Removal Tool.



- 1. To remove 53589 Hose from 53581 Turbine Cover, cut hose 1.000" (~25 mm) from 53586 Hex Nut. Set aside hose until Assembly Step # 14a.
- Cut hose from barb.

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- 2. Insert 51694 Pin Wrench through housing and drive shaft cross-holes.
- Fasten housing in vise with aluminum or bronze jaws.
- Use an adjustable wrench to remove: **53586** Hex Nut, **53587** Washer, and **53582** On/Off Valve with o-rings and muffler. Turn counterclockwise.

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- Use a "HEAT GUN" to warm 53581 Turbine Cover and soften Loctite sealant. 3.
- Use 94598 Pin Wrench to remove turbine cover. Turn counterclockwise.

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4. Invert pencil grinder in vise. Use an adjustable wrench to remove **53584** Collet Guard. Turn counterclockwise.

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- 5. Use 96479 Extension Retainer Wrench to remove 51548 Bearing Retainer. Turn counterclockwise.
- Remove housing from vise and remove 94984 Spacer.

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6. Use a soft-face hammer to bump **53580** Drive Shaft and remove it from housing.

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- 7. Insert 51694 Pin Wrench through cross-hole in drive shaft.
- Fasten drive shaft in vise with turbine motor unit pointing up.
- Use an adjustable wrench or **96408** Top Plate Wrench to remove **51655** Top Plate and turbine motor. Turn counterclockwise.

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8. Use 96346 Bearing Separator and 96232 Arbor Press to remove 51686 Bearing.

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9. Use **95890** Taper Pin, or a 9 mm (~.354") diameter rod as a ram to remove **51685** Bearing from housing.

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10. Use a wood screw to remove 51662 Air Bushing.

Disassembly Completed.

Clean, inspect, and replace worn parts before assembling.

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Assembly:



- 1. Apply Loctite #7649 Primer or equivalent to threads on **53581** Turbine Cover and **53584** Collet Guard.
- NOTICE: Provide good ventilation and allow solvent to evaporate until surfaces are completely dry.

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- 2. Press new 51662 Air Bushing into 53581 Turbine Cover.
- NOTICE: Allow 1/16" (~1.5 mm) of bushing to jut out of turbine cover. Use 51656 Turbine Base as "JIG" to preset air bushing depth.
- Set aside turbine cover until STEP # 13.

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3. Use *"RAISED INSIDE DIAMETER*" of **96418** Bearing Press Tool, and **96232** Arbor Press to install **51686** Bearing onto drive shaft.

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- 4. Assemble turbine base, turbine and top plate to make the motor unit.
- Holding motor unit together, apply a small amount of Loctite #222, or equivalent on threads of 51655 Top Plate.
- Carefully, fasten motor unit onto **53580** Drive Shaft.

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- 5. Insert 51694 Pin Wrench through cross-hole in drive shaft.
- Fasten in vise with aluminum or bronze jaws.
- Use 96408 Top Plate Wrench and torque wrench to tighten top plate. Torque to 4.5 N·m/~40 lb in.

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- 6. Apply a small amount of Loctite #609, or equivalent to outside diameter of **51686** Bearing.
- Install **51661** Wave Spring and drive shaft assembly into housing.

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- 7. Place *"RAISED INSIDE DIAMETER*" of **96418** Bearing Press Tool on table of **96232** Arbor Press.
- Place top plate of motor unit on *"RAISED OUTSIDE DIAMETER"* of **96418** Bearing Press Tool, with threaded end of drive shaft pointing up.

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- 8. Apply a small amount of Loctite #609, or equivalent to outside diameter of **51685** Bearing.
- Use "RAISED OUTSIDE DIAMETER" 96419 Bearing Press Tool and arbor press to install 51685 Bearing.
- **NOTICE:** Once bearing is installed, invert **96419** Bearing Press Tool with *"RAISED INSIDE DIAMETER"* toward inside race of **51685** Bearing.
- Apply a slight load on bearings with arbor press. Check fit and rotation of bearings.
- **NOTICE:** Use a pipe-cleaner to wipe Loctite from housing threads.

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- 9. Insert **51694** Pin Wrench through cross-holes in housing and drive shaft.
- Remove assembly from arbor press and fasten in vise, with threaded end of drive shaft pointing up.
- Install 94984 Spacer, with its larger diameter toward 51685 Bearing.

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10. Apply a small amount of Loctite #222, or equivalent just above 94984 Spacer.

- Use torque driver and 96479 Extension Retainer Wrench to install 51548 Bearing Retainer.
- Torque to 2 N·m/~18 lb in.

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- 11. Apply a small amount of Loctite #567, or equivalent to threads 53584 Collet Guard.
- Use a 14 mm crow-foot and torque wrench to install collet guard onto housing. Torque to 4.5 N·m/~40 lb in.

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- **12.** Install collet insert.
- Use **95731** Wrench (8 mm) to install **51657** Collet Cap. **NOTICE: Do not over tighten collet assembly.**
- Remove pencil grinder from vise and remove **51694** Pin Wrench.

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51662 Air Bushing Burn-In Procedure:



13. Turbine Cover, ON/OFF Valve and 96464 Burn-In Manifold Assembly:

- Install 95523 O-Ring around stem of 53581 Turbine Cover.
- Install 95438 O-Ring into 53582 ON/OFF Valve.
- Install ON/OFF Valve onto turbine cover and turn valve to the ON position.
- Install 95523 O-Ring into ON/OFF Valve.
- Install 53587 Washer onto ON/OFF Valve.
- By hand, thread 96464 Burn-In Manifold onto turbine cover.
- Install "Turbine Cover, ON/OFF Valve, and Burn-In Manifold Assembly" onto pencil grinder housing assembly. Tighten both assemblies all the way together by hand.
 NOTICE: Drive shaft will not turn.
- Connect Burn-In Manifold to air supply.
- Slowly, loosen turbine cover until drive shaft starts to rotate. IMPORTANT: DO NOT TOUCH ROTATING COLLET-END OF DRIVE SHAFT!
- Continue to slowly loosen and tighten assemblies until maximum RPM is attained.
- Use 94598 Pin Wrench to tighten assemblies.

Important: Use a Tachometer to verify maximum RPM.



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Final Assembly:



- 14. Disconnect 96464 Burn-In Manifold from air supply.
- Insert **51694** Pin Wrench through cross-hole in housing and drive shaft.
- Fasten assembly in vise with burn-in manifold pointing up.
- Remove turbine cover, ON/OFF valve and burn-in manifold.
- Remove **53587** Washer from ON/OFF Valve.
- Remove 53582 ON/OFF Valve.
- Remove **95523** O-Ring from turbine cover.
- Apply a small amount of Loctite #567, or equivalent to threads of turbine cover.
- Install turbine cover onto housing.
- Use **94598** Pin Wrench and torque wrench to tighten turbine cover. Torque to 14 N⋅m/~125 lb in.

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14a. NOTICE: Apply oil to all three o-rings.

- Install 95523 O-Ring around stem of 53581 Turbine Cover.
- Install 53588 Muffler and 95438 O-Ring into 53582 ON/OFF Valve.
- Install ON/OFF Valve onto turbine cover.
- Install 95523 O-Ring into ON/OFF Valve.
- Install 53587 Washer onto ON/OFF Valve.
- Apply a small amount of Loctite #609, or equivalent to turbine cover threads for **53586** Hex Nut.
- Install hex nut finger tight. Turn clockwise. **NOTICE:** Hex nut must stay fixed. ON/OFF Valve should turn easily without any up and down movement.
- Install hose to press firmly against **53586** Hex Nut.

Important: Allow Loctite Threadlockers and Retaining Compounds to cure/fixture for 30 minutes before checking RPM. • Supply **90 psig.** (**6.2 Bar**) maximum operating air pressure at air inlet of tool. • Use tachometer to check maximum operating speed without an accessory in collet.

Assembly Completed.

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