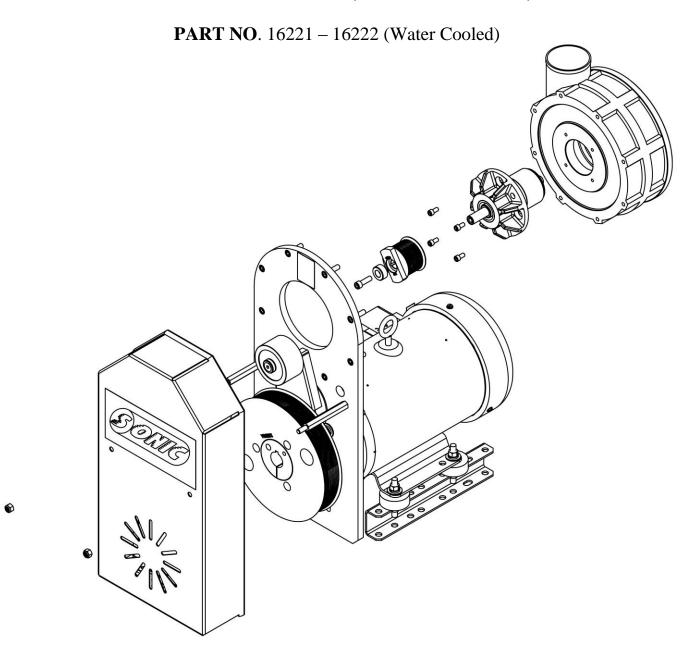


www.sonicairsystems.com

BEARING CARTRIDGE (BC) INSTALLATION QUICKGUIDE

BLOWER MODELS: SONIC 70, 85, 100, 150, 200 & 300

PART NO. 14452 – 14453 (Air Cooled "Standard")



Sonic Air Systems, Inc. 1050 Beacon St Brea, CA 92821

Tel: 714-255-0124 Fax: 714-255-8366

IMPORTANT! - READ NOTES BELOW BEFORE PROCEEDING

SAFETY FIRST

ELECTRICAL

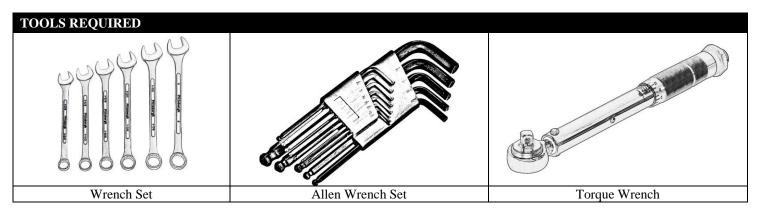
- 1. ALWAYS use qualified electrical and mechanical personnel for installation and maintenance of Sonic air blowers.
- 2. **ALWAYS** disconnect the electrical power at the motor starter, fuse box, or circuit breaker before working on the blower / motor.
- 3. **ALWAYS** use proper electrical installation, wiring, and controls consistent with local and national electrical codes. A lockable isolation switch should be provided.
- 4. Refer to the motor nameplate data for the proper power supply requirements. Be sure the junction box connections are tight and well insulated to prevent shorts and to assure maximum protection against moisture.



MECHANICAL

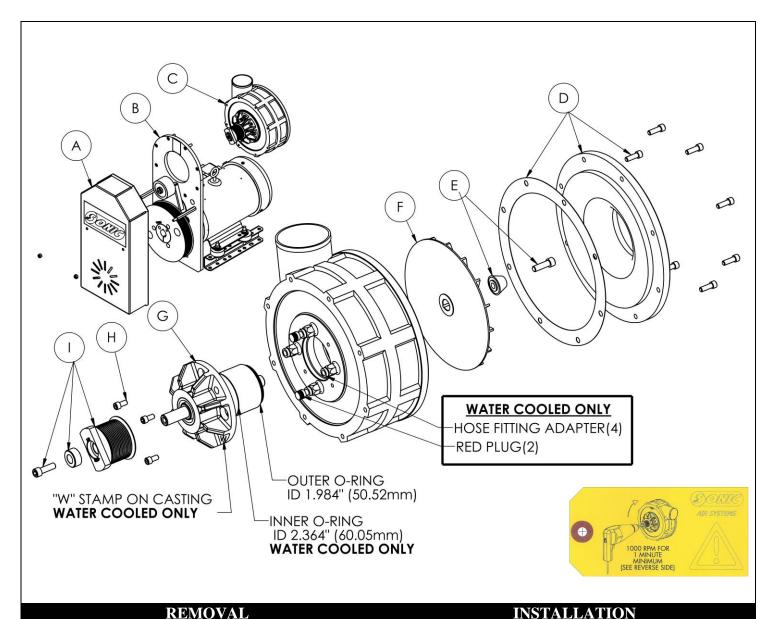
- **NEVER** run the Sonic Air blower without the belt guard installed.
- **NEVER** run the Sonic Air blower with the outlet open to atmosphere as this can cause the motor to overload.
- **NEVER** run the Sonic Air blower with the inlet open to atmosphere. Always connect your system piping, Sonic inlet filter, or Sonic Inlet safety screen to the blower inlet to prevent personal injury or damage to the blower.
- Keep tools, clothing and hands away from rotating or moving parts while the unit is running.
- Use safety glasses and hearing protection when working around the blower / motor and / or air knife assembly while the system is running.

TORQUE SPECIFICATIONS	Sonic 70/85	Sonic 100/150	
Blower Mounting Screws	25 ft-lbs / 34 Nm		
Blower Cover Screws	10 ft-lbs / 14 Nm	25 ft-lbs / 34 Nm	
Blower Impeller Screw	20 ft-lbs / 27 Nm		
Blower Pulley Screw	20 ft-lbs / 27 Nm		



ITEMS INCLUDED	Part No.			
	Sonic	Water	Sonic	Water
	70/85	Cooled	100/150	Cooled
Bearing Cartridge	14452	16221	14453	16222
Retainer – Impeller	10766			
Retainer – Blower Pulley	15018			
Key – Blower	10405			
Screw – 5/16-24 x 1" SHC Full Thread	10769			
Shim – Blower Cover	13547 1046		l69	
Grease – 5g Packet	16223			





REMOVAL

- 1. Remove Belt Guard (A)
- Remove Drive Belt (not shown)
- Remove Water Cooled Lines (Water Cooled Units ONLY)
- Remove Blower Head (C) from Bracket (B) 4.
- Remove (8) Blower Cover screws, and paper Shim (D)
- Remove Impeller Screw and Retainer (E)
- Remove Impeller (F) from Blower Housing (C) 7.
- Remove (4) Screws (H) and B.C. from Blower Housing (C)
- Remove Pulley Screw, Pulley Retainer and Blower Pulley (I)
- 10. Discard old Bearing Cartridge (G), Blower Pulley (I) and Impeller (F) if damaged

Note: Heat Gun or Hot Water may be needed for easier removal

Note: Bearing Cartridge Kit includes (1) O-Ring (Outer) for Standard Blowers & (2) O-Rings(Outer + Inner) for Water-Cooled Blowers

- 11. Add Grease (included) to O-Ring(s) installed on Bearing Cartridge (G)
- 12. Reinstall remaining components in the reverse order of removal
- 13. Verify Torque Specifications listed on Page 2
- 14. Be aware of Bearing Cartridge Expiration Date on Run-In Tag (Yellow Card)
- 15. NOTE: Impeller may rub unless Blower Pulley is properly installed and torque to specification

Please e-mail asksonic@sonicairsystems.com for the detailed Maintenance Manual

