Description:

The Barracuda® is a self-rotating swivel designed for handheld shotgun waterblast cleaning. It has a 9/16 medium pressure cone and thread inlet port; an adapter is required for 1/2 or 3/8 npt pipe lances. Two standard heads are available; the two jet head has 1/4 npt nozzle ports, and the four jet head has 1/8 npt nozzle ports. It is best to use two larger jets for thick deposits such as concrete removal, and four jets for thin coatings or scale, as it allows the tool to be moved faster over the surface. Both heads can be used over the entire range of pressure and flow shown on the jetting chart. Only the orifice sizes need to be changed to suit. The Barracuda® uses automatic transmission fluid (ATF) as a lubricant for the bearings and speed control components. It can be flushed/refilled with ATF through the fill port using a syringe. This is recommended after every 20 to 40 hours of operation.

Press. Kpsi	Nozzle ID, in.													
	.018	.020	.022	.024	.026	.029	.032	.035	.038	.042	.047	.052	.057	.063
2-Jet Model # BC-K														
5										6.5	8.1	9.7	11.3	13.3
10							5.5	6.5	7.6	9.2	11.4			
15					4.4	5.5	6.7	8.0	9.4					
20				4.4	5.1	6.4	7.7							
22				4.6	5.4	6.7	8.1							
4-Jet Model # BC-K-P2														
5					5.1	6.3	7.5	8.9	10.3	12.1				
10			5.2	6.1	7.2	8.8	10.6							
15	4.3	5.2	6.3	7.5	8.8									
20	4.9	6.1	7.3											
22	5.2	6.4	7.7											

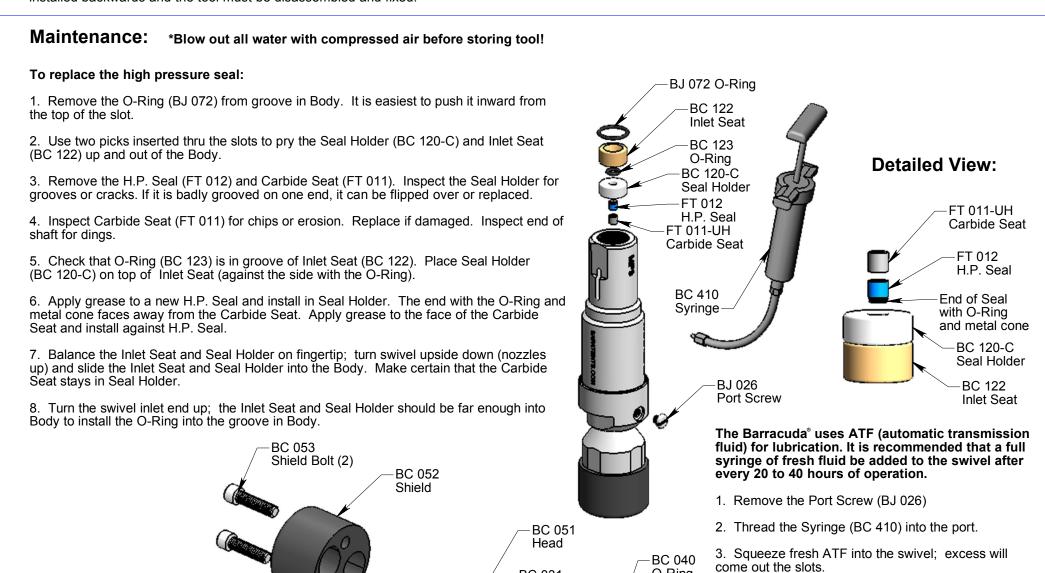
Operation:

The Barracuda® should always be used with a gun that includes a dump or pressure shut-off mechanism, so that pressure can be rapidly released. The gun barrel length including the Barracuda® should be long enough that the gun operator cannot pass the jets over his feet or legs. It is recommended that the thrust produced by the jets be no more than 1/3 the weight of the operator. Install the desired nozzle size into the head; we recommend using Parker Thread Mate and teflon tape on the nozzle threads. Attach the Barracuda® to the shotgun barrel. Flush the high pressure hose before connecting to the gun inlet. Check that the dump mechanism functions correctly before going to operating pressure. The Barracuda® high pressure seal may initially leak at lower pressure, but the seal should pop shut as pressure is increased. To set the operating pressure, the gun operator should close the dump on the gun, and the pump operator should slowly increase the pressure to allow the gun operator to compensate for the jet thrust. The Barracuda® head should be within 2 to 8 inches of the surface, depending on how difficult it is to remove the material

Troubleshooting:

High Pressure Seal Leak: if water is coming out of the slots in the body, see if it is coming out the bottom of the slot (near the head) or the top of the slot (near the inlet end). If it is coming out near the inlet end, it is the inlet connection that is leaking. If it is coming out the bottom of the slot, it is the high pressure seal that is leaking. Follow the directions below to replace the carbide seat and high pressure seal; if it still leaks then the shaft end may be damaged and needs to be repaired or replaced. Seals wear out quickly: When the life of the high pressure seal becomes noticeably less, the seal holder needs to be replaced. Also replace the carbide seat if it has not been replaced with each seal change. Very rarely, the spring that controls the speed of the tool will break, allowing the tool to spin too fast and quickly wear out the

Will not rotate: Check the nozzles to see if they are plugged or partially plugged. To clean them, they must be removed from the head; it does not do any good to poke the material plugging the nozzle back into the head. Check that the nozzles are the correct size based on the chart above. If all of theses things appear to be correct, the tool may need to be disassembled and repaired. If the tool has just been rebuilt, and the tool starts to spin but stops as pressure is increased, the bearing RJ 007 is installed backwards and the tool must be disassembled and fixed.



BC 031

Backup Ring-

O-Rina

BJ 026 Port Screw

BC 002

BC 123 O-Ring

4. Remove Syringe and install Port Screw.

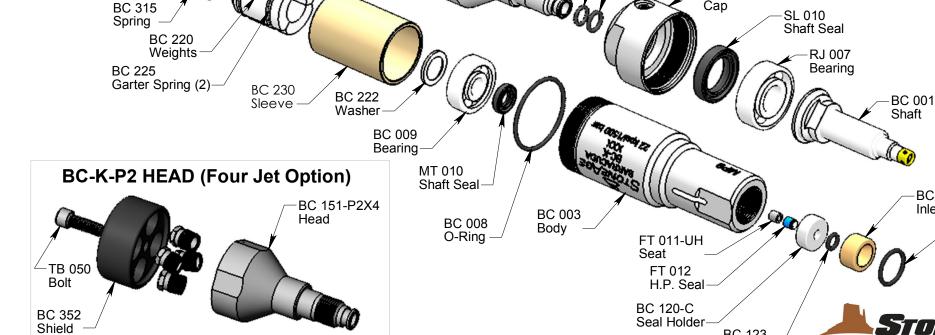
BC 122

© 06/05/2014 StoneAge®, All Rights Reserved

Inlet Seat

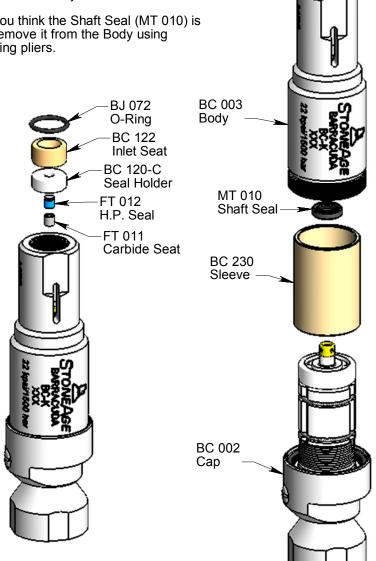
BJ 072

O-Ring



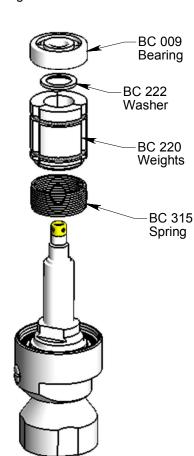
Disassembly:

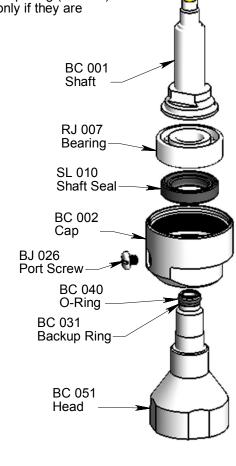
- 1. Remove the O-Ring (BJ 072) from the Body. Pry out the Seal Holder (BC 120-C) and Inlet Seat (BC 122) as explained in the Mainténance Section.
- 2. Unscrew the Body (BC 003) from the Cap (BC 002), remove the Sleeve (BC 230); it may be still in Body.
- 3. If you think the Shaft Seal (MT 010) is bad, remove it from the Body using snap ring pliers.



- 4. Pull the Bearing (BC 009) from the Shaft. Remove the Washer (BC 222)
- 5. Unhook the Spring (BC 315) from the hole in the Shaft, remove the Weights (BC 220) and Spring (BC 315) from the Shaft. Leave the Weights together.
- 6. Unscrew the Shaft (BC 001) from the Head (BC 051) and pull up on the Cap (BC 002) to remove it and the Bearing (RJ 007).
- 7. If the Shaft Seal (SL 010) is damaged, remove it from the

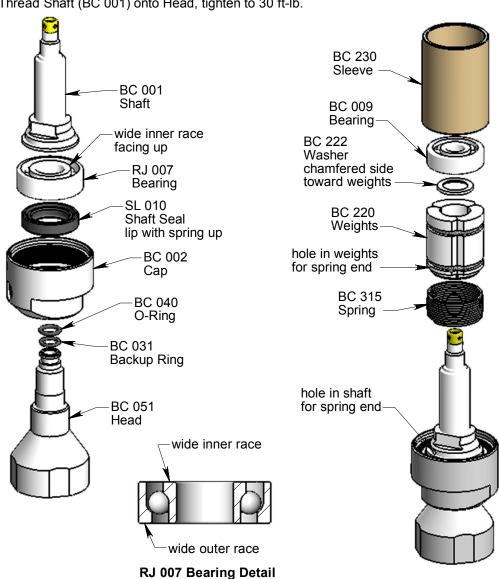
8. Inspect the O-Ring (BC 040) and Backup Ring (BC 031) on the end of the Head. Remove them only if they are





Assembly:

- 1. If O-Ring (BC 040) and Backup Ring (BC 031) were removed, install new ones on Head (BC 051). Note the order which they sit. Apply anti-seize to threads and grease to O-Rings.
- 2. Install Shaft Seal (SL 010) in Cap. Apply Armour-All to lips of seal, slide Cap with seal over Head.
- 3. Install Bearing (RJ 007) on Head. This is a thrust bearing, and must be installed with the wide inner race facing up.
- 4. Thread Shaft (BC 001) onto Head, tighten to 30 ft-lb.



- 5. Insert Spring (BC 315) end into hole in Weights (BC 220), then slide Weights and Spring onto Shaft and insert other Spring end into hole in Shaft.
- 6. Place Washer (BC 222) on top of Weights, with chamfered face of Washer facing down toward the Weights.
- 7. Slide Bearing (BC 009) onto Shaft. Slide Sleeve (BC 230) over the assembly.
- 8. Install Shaft Seal (MT 010) into Body. Lip with spring faces toward inlet connection of Body.
- 9. Install O-Ring (BC 008) onto
- 10. Apply anti-seize to threads of Body, thread into Cap. Tighten to 45 ft-lb.
- 11. Install the high pressure seal components as described in the Maintenance Section.
- 12. Fill the tool with ATF as shown in the Maintenance Section. Install Port Screw (BJ 026).

