Description:
The Barracuda® BC-H9-C is a self-rotating swivel designed for handheld shotgun waterblast cleaning. It has a 3/8” high pressure hose and thread inlet port, with an easily replaced seal cartridge assembly. Two heads are available; the low flow head (BC 351-4-18) and the high flow (BC 351-4-15) head. Refer to the charts for flow ranges and the correct nozzle sizes if using four jets. Both heads have 7/16-20 nozzle ports for sapphire nozzle assemblies. Two ports may be plugged if desired, but larger nozzles need to be used to maintain the same flow rate. 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.

Troubleshooting:
Description:
To rebuild cartridges in the field. This is recommended after every 20 to 40 hours of operation. It can be flushed / refilled with ATF through the fill port using a syringe.

The Barracuda® BC-H9-C uses automatic transmission fluid (ATF) as a lubricant for the bearings and the surface. 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 Blue Coop 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.

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 Blue Coop 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.

Maintenance:
To replace the cartridge:
1. Remove the O-Ring (BJ 417) from inlet port. It is easiest to push it upward from the round weep hole.
2. If necessary, use two picks inserted through the slots to pry the Cartridge Assy (BC 705) up and out of the Body.
3. Turn the swivel inlet end up; insert a fresh ATF into the swivel; excess will come out the slots.
4. Remove Syringe and install Port Screw.

The Barracuda® uses ATF (automatic transmission fluid) for lubrication. It is recommended that a full syringe of fresh fluid be added to the swivel after every 20 to 40 hours of operation.

1. Remove the Port Screw (BJ 026) and press down firmly to engage the Snap Fit Housing.
2. Place Flat Washer (GW 531-F) over entire stack end is against the H.P. Seal.
3. Install Snap Fit Housing (BC 721) onto Inlet Seat Housing (BC 722).
4. Stack the assembled Snap Fit Housing and Inlet Seat Housing with the internal cone at the bottom onto the Mandrel and Flat Washer.
5. Insert Compression Spring (BC 724) into bore of Inlet Seat Housing.
6. Place a small amount of Grease on the H.P. Seal Assy (BC 712-O) at the O-ring and Seal Face. Insert the H.P. Seal Assy into bore of Inlet Seat Housing making sure the end with the O-ring and seal support goes in first. (see detail for orientation and grease locations)
7. Stack the Seal Retainer (BC 720) around the H.P. Seal Assy.
8. Stack the Carbide Seat (BC 711) making sure the shoulder with OD chamfer end is against the H.P. Seal. (see detail)
9. Slip the Retaining Housing (BC 723) over entire stack and press down firmly to engage the Snap Fit Housing.
10. Remove the Mandrel and Flat Washer and lightly press the backside of the exposed Carbide Seat to ensure free movement.

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Disassembly:
1. Remove the O-Ring (BJ 417) from the inlet port of the Body. Pry out the high pressure seal Cartridge Assy (BC 705) as explained in the Maintenance Section.

2. Unscrew the Body (BC 403) from the Cap (BC 302); remove the Sleeve (BC 230).
3. If the Seal (MT 010) is damaged, 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 401) from the Head (BC 351) and pull up on the Cap (BC 302) to remove it and the Bearings (RJ 007) from the Head.

Assembly:
1. Install Backup Ring (BC 031) and O-Ring (BC 040) on Head (BC 351). Note order they sit. Apply anti-seize to threads and grease to O-Rings.
2. Install Shaft Seal (SL 010) in Cap (BC 302). Apply Armour-All to lips of seal; slide Cap onto Head.
3. Install Bearings (RJ 007) on Head. These are angular contact bearings and need to be installed as shown.
4. Thread Shaft (BC 401) 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; insert other spring end into hole in Shaft.
6. Place Washer (BC 222) on top of Weights, with chamfered face of washer facing toward Weights.
7. Slide Bearing (BC 009) onto Shaft. Slide Sleeve (BC 230) over the assembly.
8. Install O-Ring (BC 008) onto Body (BC 403).
9. Install Shaft Seal (MT 010) into Body.
10. Apply anti-seize to threads of Body; thread into Cap. Tighten to 45 ft-lb.
11. Install the high pressure seal Cartridge Assy as shown in the Maintenance Section.
12. Fill the tool with ATF as shown in the Maintenance Section. Install Port Screw (BJ 026).