

Disassembly/Assembly Instructions – DynaPen

Important: Manufacturer's warranty is void if tool is disassembled before warranty expires. Please refer to parts breakdown for part identification. Make sure parts have been cleaned and thoroughly inspected for damage prior to assembly.

Important: Disconnect tool from power source before tool repair.

(All threads are right hand)

Collet Disassembly & Assembly Instructions

Disassembly

1. Use **95731** 8mm Open-End Wrench to remove **51657** Collet Cap.
2. Remove **51673** or **51659** Collet Insert.

Assembly

1. Place **51673** or **51659** in end of **10836** Arbor. It should be a very clean fit that does not stick. If it sticks thoroughly inspect, clean and polish as necessary.
 2. Screw on **51657** Collet Cap.
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Front Housing Disassembly & Assembly Instructions

Disassembly

1. Remove collet and collet insert per Collet Disassembly/Assembly Instructions above.
2. Remove **10841** Tactile Grip by sliding it over the front of the tool.
3. Secure tool in vise using padded jaws by clamping onto wrench flats of **10840** Rear Housing so that **10839** Front Housing is facing up.
4. Use a HOT AIR GUN to apply heat to mating area of **10839** and **10840**.
5. Use a 5/8" open-end wrench to remove **10839** by turning it counter-clockwise.
6. Secure **10839** in vise using padded jaws so that it is facing down.
7. Use a HOT AIR GUN to apply heat to **10833** Cylinder.
8. Use a 3/8" open-end wrench to remove **10833** by turning **10835** by turning it counter-clockwise.
9. Push **10836** Arbor from housing, and then remove the o-rings from **10839**.
10. Secure **10833** in vise using padded jaws so that **10835** is facing up.
11. Use a HOT AIR GUN to apply heat to **10835**.
12. Use a 3/8" open-ended wrench to remove **10835** by turning it counter-clockwise.
13. Push **10834** Piston from cylinder.
14. Clean all parts thoroughly.

Assembly

1. Secure **10833** Cylinder into vise using padded jaws or 10.5mm collet in collet holder, so that the internal threads are facing up.
 2. Lightly lubricate **10834** Piston with Dynabrade Air Lube (P/N 95842) and place into **10833**.
 3. Apply a small quantity of Loctite® #242 or equivalent onto external threads of **10835**.
 4. Thread **10835** into **10833** fully.
 5. Using a 3/8" socket and torque wrench set at (17N•m/150in-lbs.) secure the piston and cylinder plug in place.
 6. Place **01025** O-Rings onto **10836** Arbor.
 7. Lubricate o-rings with Dynabrade Air Lube (P/N 95842).
 8. Place **10836** with o-rings into **10839** Front Housing.
 9. Align the hex faces by slightly shaking **10839** until **10836** is fully seated.
 10. Secure assembly in vise using padded jaws so that **10839** is facing down.
 11. Apply a small quantity of Loctite® #242 or equivalent to the external threads of **10833**.
 12. Thread **10833** into **10839** fully by hand.
 13. Remove from vise and invert assembly so that **10839** is facing up.
 14. Secure assembly in vise using padded jaws, by clamping onto **10833**.
 15. Using a 5/8" crows foot and a torque wrench set at (5 N•m/44 in-lbs.) secure the front housing and cylinder in place.
 16. Slide **10841** Tactile Grip over the front of **10839** until grip bottoms out against part.
 17. Assemble collet and collet insert per Collet Disassembly/Assembly Instructions above.
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Rear Housing Disassembly & Assembly Instructions

Disassembly

1. Remove **10841** Tactile Grip by sliding it over the front of the tool
2. Secure tool in vise using padded jaws so that **10840** Rear Housing is facing up.
3. Use a HOT AIR GUN to apply heat to mating area of **10839** and **10840**.
4. Use a 5/8" Open-End Wrench to remove **10840** by turning it counter-clockwise.
5. Clean all parts thoroughly.

(Continued on Opposite Side)

Disassembly/Assembly Instructions – Continued

Rear Housing Disassembly & Assembly Instructions

Assembly

1. Apply small quantity of Loctite® #242 or equivalent to external threads of **10840**.
 2. Thread **10840** Rear Housing onto **10839**, drawing the two assemblies together.
 3. Secure tool in vise using padded jaws by clamping onto wrench flats of **10840** Rear Housing so that **10839** Front Housing is facing up.
 4. Using a 5/8" crowfoot and torque wrench set at (23 N•m/200in-lb torque) secure the front and rear housing in place.
 5. Slide **10841** over the front of **10839** until grip bottoms out against part.
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Hose Instructions:

To repair or replace damaged hose:

1. Cut through hose approximately 1" back from end of hose using a sharp object, utility knife, razor blade, etc.
 2. Pull hose off, trim off damaged area or install replacement hose; use only Dynabrade Air Line P/N **10971** or **10973** where applicable.
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Swivel Disassembly & Assembly Instructions

Disassembly

1. Use **96343** Internal/External Retaining Ring pliers to remove **95998** Internal Retaining ring.
2. Remove **10966** Barb from **10969** Housing.
3. Remove **10972** O-ring from **10966**.

Assembly

1. Slide **10972** O-ring onto o-ring groove of **10966**.
 2. Lubricate o-ring and install **10966** into **10969**.
 3. Use **96343** pliers to install **95998**.
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Valve Disassembly & Assembly Instructions

Disassembly

1. Unscrew **51271** Inlet Barb, remove **51676** Conical Spring, **51663** Tip Valve, and **51664** Valve Seat.
2. Remove **51669** Retaining Ring and withdraw **51665** On/Off Valve.
3. Remove **95730** O-Rings.

Assembly

1. Install new **95730** O-Rings.
 2. Lubricate o-rings and install **51665** On/Off Valve in **51282** Valve Body.
 3. Install **51664** Valve Seat.
 4. Set **51665** Valve in the OFF position, (**51669** Retaining Ring against **51282** Valve Body) and load **51663** Tip Valve, and **51676** Conical Spring in **51282** Valve Body. The small end of the **51676** Conical Spring must engage the short boss on **51663** Tip Valve.
 5. Apply Thread Sealant to **51271** Inlet Barb and torque to 4.5 N•m (40 lb-in.).
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Filter Disassembly & Assembly Instructions

Disassembly

1. Cut through hose approximately 1" back from end of hose. Using a sharp object, utility knife, razor blade, etc.
2. Pull hose off.
3. Secure **10842** In-line Filter in vise with soft jaws.
4. Use a 5/8" open-end wrench to remove **51269** 1/4" NPT Push Lock by turning it counter-clockwise.
5. Push **56022** Inlet Screen from filter housing.

Assembly

1. Place **56022** into the (internally) threaded opening of **51269**.
2. Thread **51269** onto **10842**.
3. Secure **10842** in vise with soft jaws.
4. Use 5/8" open-end wrench to tighten **51269** snugly. DO NOT OVER TIGHTEN.
5. Push **10973** Air Line firmly onto hose fitting beyond last barb or until hose bottoms out against part.

Hose assembly complete.

Assembly of DynaPen is complete. Please allow 30 minutes for adhesives to cure before operating the tool. Connect the DynaPen to an air source and check tool for proper operation.

Assembly/Disassembly Tools

5/8" Crowfoot Wrench • Torque Wrench • 3/8" Socket • 3/8" Open-End Wrench
8mm Open-End Wrench P/N **95731** (Supplied with tool) • Ext./Int. Retaining Ring Pliers P/N **95731**