Model 600 Nozzle

405233901 Main Valve Rebuild Kit

Installation

Use this kit to replace the main valve components in a Healy model 600 nozzle.

Parts List

Item	Description
1	Body Cap
2	Cap O-ring
3	Main Valve Spring
4	Main Valve Cap
5	Main Valve Seal
6	Micro Flow A
7	Micro Flow B
8	Stem
9	Stem Seal, Top
10	Stem Seal, Bottom
11	Stem Seal O-ring, 0.629" (15.98 mm) O.D.
12	Stem Seal Quad Ring
13	Stem Seal O-ring, 0.419" (10.64 mm) O.D.
14	Stem Seal O-ring, 0.504" (12.8 mm) O.D.

Tool List

- 1-3/8" (35mm) socket
- Torque Wrench
- Adjustable Torque Screwdriver

When working with petroleum equipment, make sure to follow all local safety and installation regulations.

Before working on the nozzle, remove it and make sure all gas is drained from the nozzle.

Remove Existing Main Valve

1. Remove handguard and pull back the scuffguard and use a 1-3/8" (35mm) socket to remove the Scuffguard cap (Figure 1).

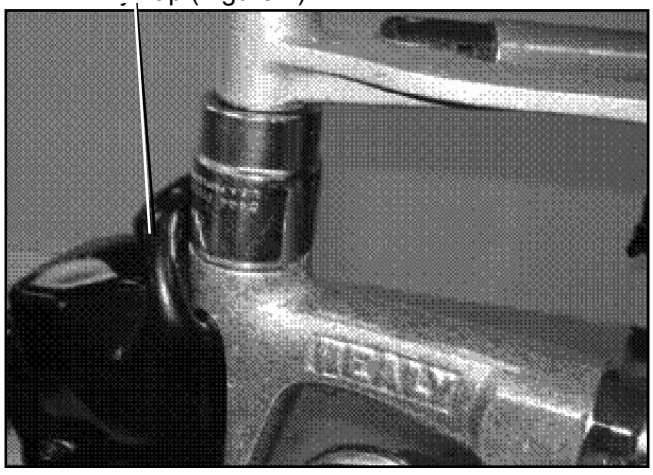

Figure 1: Remove Main Valve Cap

2. Remove the main valve components shown in Figure 2.

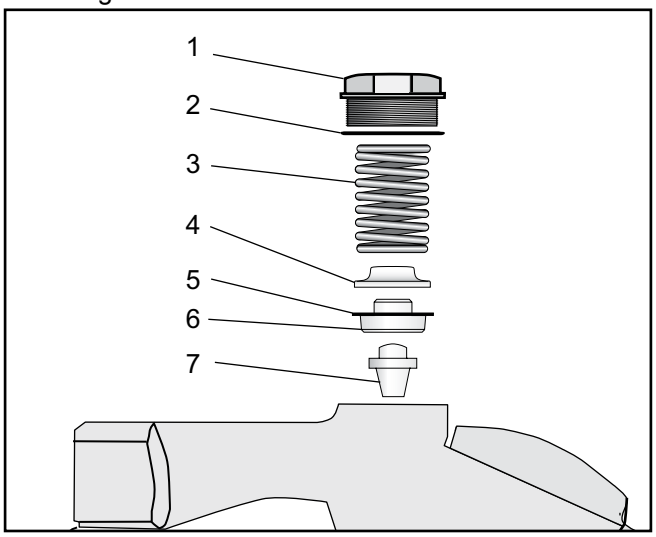

Figure 2: Main Valve Removal

3. Remove the Stem.

Figure 3: Remove Stem

4. Remove the Stem Seal Assembly by turning it counter-clockwise with a torque screwdriver using a wide (0.5 to 0.625", 13 to16 mm) screwdriver bit.

Figure 4: Remove Stem Seal Assembly

Install New Valve Kit

1. Lubricate the O-rings and Quad Ring Seal light oil
2. Install the O-rings on the Stem Seal as shown (Figure 5).

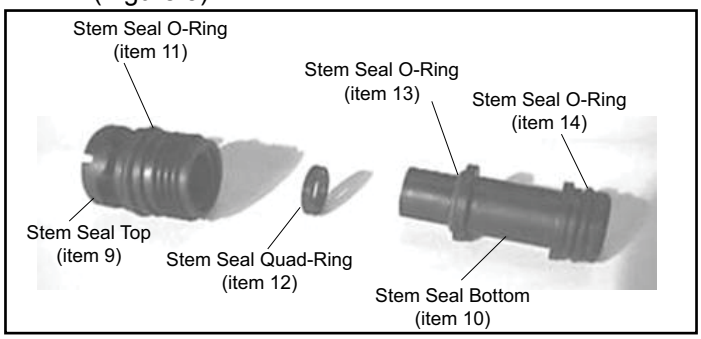

Figure 5: Stem Seal with O-rings

3. Set the Quad Seal onto the Stem Seal bottom.
4. Slide the Stem Seal bottom into the Stem Seal Top. This will seat the Quad Seal (See Figure 6).

Figure 6: Stem Seal Assembly

5. Put the Stem Seal Assembly into the nozzle and carefully turn it clockwise (Figure 7). Use a torque screwdriver with a wide (0.5 to 0.625”, 13 to16 mm) screwdriver bit to tighten the assembly to 24 to 28 In/lbs (2.7 to 3.2 Nm).

Figure 7: Tighten Stem Seal Assembly

6. Insert the Stem (item 8) into the Stem Seal Assembly from above (Figure 8), and do NOT push it down yet.

Figure 8: Install Stem

7. Arrange the valve components in order (See Figure 2 and Figure 9).

Figure 9: Valve Components

8. Assemble the Valve Assembly into the cap as shown (Figure 10).

Figure 10: Valve Assembly

9. Lubricate the cap O-ring with light oil.
10. Put the Valve Assembly into the nozzle body so the micro-flow B (item 7) engages the stem (item 8). Force it down while turning the cap clockwise until the threads engage (Figure 11).

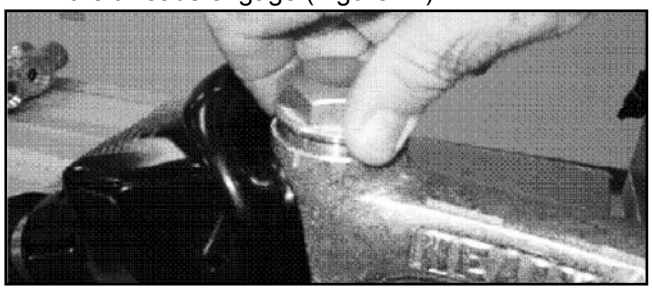

Figure 11: Tighten Cap

11. Use a 1-3/8" (35mm) socket and tighten the cap to 50 Ft/lbs (5.65 Nm) torque. Make sure the cap is fully seated to the nozzle body.
12. Pull the scuffguard over the main valve cap and replace the handguard.

Testing the Nozzle

Connect the nozzle to a Healy hose, pressurize it with fluid and check for :

- Leaks between the cap and body
- Leaks at the stem/lever connections
- Proper lever action and flow

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