



Technical Documentation

JDS LPR (Freestyle)

CAUTION! The reg core assembly is under spring tension. The reg core assembly can launch from the adapter when separated from the reg sleeve. Take care when disassembling the JDS LPR. Wear safety glasses and point regulator away from self and others. Always perform repairs with equipment de-gassed.

Required Tools:

5/32" Allen Wrench
Needle Nose Pliers
Dow 33 Grease

O-ring Pick
Strap Wrenches
Ballpoint Pen

Disassembly Instructions

Step 1. De-gas marker, remove JDS LPR. It may be necessary to use a strap wrench to remove the JDS LPR from the marker. To remove with strap wrench, use the strap wrench on the adapter piece of the regulator.

Step 2. Remove LPR adjustment cap, using 5/32" allen wrench. Take out the main spring.

Step 3. Using a pair of needle nose pliers, gently remove the main piston. Little, if any, force should be required to remove the piston.

Step 4. Separate the regulator sleeve from the adapter. A strap wrench may be needed. Keep adapter pointed away from yourself and others.

Step 5. Remove reg core and core o-ring, then use pliers to gently grasp the core pin. Be careful not to damage the core pin. Remove the core pin--this part is under pressure from a spring.

Step 6 Remove the washer and pin o-ring from within the adapter. It may be necessary to use an o-ring pick to remove the pin o-ring (it rests in a pocket at the bottom of the adapter).

Replacement Parts List

Wholesale	MSRP	Part
\$3.00	\$4.50	Main Spring
\$5.00	\$7.50	Main Piston
\$7.50	\$11.25	Reg Core
\$5.00	\$7.50	Core Pin
\$2.00	\$3.00	Core Spring
\$1.50	\$2.25	Washer
\$5.00	\$7.50	O-ring Replacement Kit

Reassembly Instructions

Step 1. Place pin o-ring in bottom of adapter. Use the back of a ballpoint pen to position o-ring into pocket. Place washer on top of o-ring, using ballpoint pen to ensure washer is resting flat.

Step 2. Grease core pin with Dow 33. Assemble reg core assembly as shown below.

Step 3. Position adapter vertically, then drop reg core assembly into hole, as shown below. Make sure core o-ring is properly positioned between core pin and reg core.

Step 4. Grease threads on both ends of regulator sleeve. This will make assembly easier. Place regulator sleeve over core assembly (shallow side up), making sure core pin passes through the hole in the regulator sleeve. Tighten regulator sleeve to adapter. Do not use Loctite.

Step 5. Grease main piston, then place in regulator sleeve. The spring nub should be face up.

Step 6. Place -010 o-ring in pocket, on back of regulator adapter. Use a bit of Dow 33 to hold o-ring in place, then install on marker.

Step 7. Air up marker. This will seat the core pin.

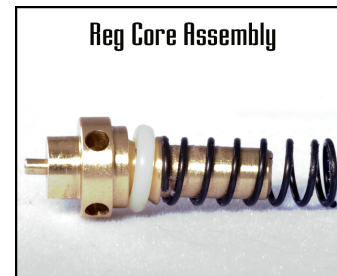
Step 8. De-gas marker and install main spring, followed by adjuster cap.

Core Assy. Installed In Adapter

Core o-ring should be flush with core.



Reg Core Assembly



JDS Freestyle Assembly Diagram

