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Starting Line Products, Inc.

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SLP Super Silent Muffler for Polaris 800 RZR, RZR-S, RZR XC & RZR-4 Part# 09-108

Tools required

7/16" Deep Socket	1/2" Deep Socket	9/16" Deep Socket
5/8" Deep Socket	3/8" Ratchet Extension	3/8" Ratchet
Spring Puller	T25 Torx bit	Phillips Screwdriver
7/16" End Wrench	9/16" End Wrench	
Ultra Copper High Temperature Silicone		Torque Wrench

THIS SILENCER IS NOT U.S. FOREST SERVICE APPROVED.

Kit Contents:

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|---|--|
| (1) RZR Muffler Mounting Plate (part# 090-1083) | (1) Grafoil Seal (part# 090-747) |
| (2) Modified 5/16" x 1" U bolt (part# 090-1085) | (6) 3/8" Flat Washer (part# 999-0066) |
| (1) Inlet Spring Mount Bracket (part# 090-1086) | (4) 1/4" x 1/2" Bolt (part# 999-1298) |
| (1) Instruction Sheet (part# 090-108inst) | (2) 3/8" Toplock Nut (part# 999-0165) |
| (2) Vibration Isolator Assembly (part# 090-1089) | (4) 5/16" Flanged Toplock Nut (part# 999-0166) |
| (2) Short Exhaust Retention Spring (part# 090-40) | (1) 1/4" x 1 1/4" U-bolt (part# 999-0169) |
| (2) 1/4" Toplock Nut (part# 999-0167) | (2) 3/8" x 1 1/2" bolt (part# 999-1412) |
| (1) Muffler Assembly (part# 090-1081) | (4) 1/4" Lock Washers (part# 999-1299) |
| (1) Exhaust Outlet (part# 090-1082) | (1) Spark Arrestor (part# 999-1081) |
| (1) Aluminum Bed Heat Sheild (part# 090-1088) | |

Note: It is possible to install the SLP Super Silent Muffler without removing the cargo box (rear bed pan) but the process is easier if the cargo box is removed.

1. Remove rear stock plastic bumper.
2. Using 5/8-inch socket, loosen the clamp on the inlet u-tube of the stock silencer.



3. Remove the stock exhaust inlet U-tube from the machine by disconnecting the retaining springs and removing the U-tube from the left side of the machine.

4. Undo sway bar by loosening the 1/2-inch nut built into the stopper. (This step is not required on the RZR-S and RZR-4). Pull the sway bar off of the rods so that it drops out of the way for muffler installation.

5. Slide the stock silencer back and lift up and out. The silencer will need to be rotated and removed from the left side (see illustration #1).

6. Jack the rear of the vehicle up a few inches so the tires are barely off the ground. This will allow the silencer to clear the rear tire.

7. Install muffler mounting plate on top of the tube frame using two supplied 5/16"x1" u-bolts and four supplied 5/16" flanged toplock nuts (see illustration #2). Center the muffler mounting plate from side to side and front to back so the plate lies flat on the tube frame. Before tightening the u-bolts on the frame, set muffler assembly in place and position mounting plate so the inlet u-tube lines up with the muffler. Tighten the mounting plate in place. Torque nuts to 10 ft/lbs.

8. Slide the silencer into place from the right side and align mounting tabs over outermost holes on muffler mounting plate (See illustration #3). Place orange vibro insulators on each side between the silencer and muffler mounting plate. Install a 3/8" flat washer on the bolt and then install the bolt from bottom up on each side with a washer on the bottom side of the mounting plate and one on the top (see illustration #4). Torque bolts to 20 ft. lbs.

9. Install the provided grafoil seal onto the end of the stock exhaust inlet u-tube that fits into the silencer and re-install the u-tube onto the machine (see illustration #5). Secure with the stock retaining springs that were previously removed.

10. Install the supplied inlet spring mount



bracket using the supplied 1/4"x1 1/4" u-bolt and two supplied 1/4" toplock nuts. (see illustration #6). Secure the U-tube to the silencer with two short exhaust retention springs supplied in the kit. (see illustration #7)

11. Place the bowl shaped perforated spark arrestor screen in the silencer outlet hole and apply Ultra Copper silicone to the outer edge of the screen, which will help hold it in place (see illustration #8). Attach the exhaust outlet to the silencer using four provided 1/4" bolts and four provided lock washers.

NOTE: This silencer is not USFS Approved. Install and use spark arrestor at your own discretion.

12. Using the 9/16-inch end wrench, tighten the nuts and bolts holding the muffler assembly to the mounting plate until the red rubber mount is bulging out slightly (see illustration #4).

13. If the cargo box (bed pan) was removed, re-install it now. Re-install the sway bar and stock plastic bumper.

14. Loosen bed bolts and slide the provided aluminum heat shield between the bed bracket and frame on the right hand side (see Illustratin #9).

Maintenance (every 500 miles)

1. Remove exhaust outlet retaining bolts.
2. Remove spark arrestor screen.
3. Use a non-synthetic brush to clean the arrestor screen.
4. Inspect the screen for wear or damage.
5. Apply high temp silicone around the outer edge of the screen and re-install exhaust outlet.

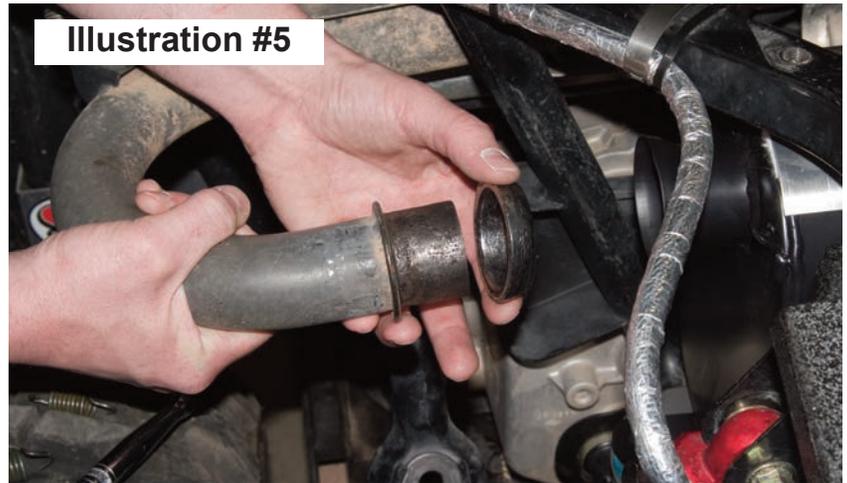


Illustration #5



Illustration #6

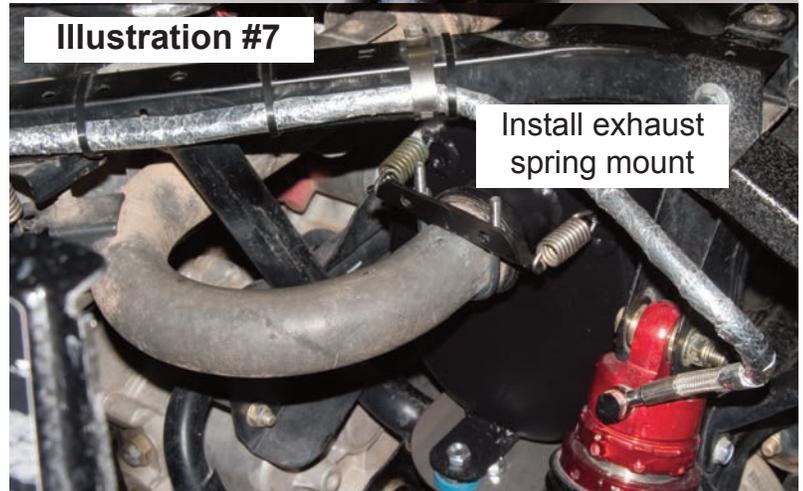


Illustration #7

Install exhaust
spring mount



Illustration #8

Spring Tension Adjustment:

Spring loop adjustment is suggested for proper spring tension to prevent leakage and wear (low tension), allow adequate flex (proper tension) and prevent spring breakage (excessive tension).

When system is installed the spring can be judged for proper tension. The winding spacing at the center of the spring will indicate tension. When proper the two center windings will have .040" to .050" clearance between them. This is easily tested with a feeler gauge.

If tension is incorrect, remove exhaust springs, loosen u-bolt holding the spring mount bracket and slide spring mount bracket in direction needed for proper tension. When mount is set for proper spring tension, tighten u-bolt nuts.

