



015-09923

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JB 01/03/25 JM

743 East Iona Road, Idaho Falls, ID 83401, (208) 529-0244

SLP Single Pipe Set for Polaris 2023-25 9R Matryx RMK/Khaos P/N 09-923

Parts List:

1 - Single Pipe (#090-9232)	1 - Silencer (#090-8153R)	1 - Y-Pipe (#090-9231)
1 - Instruction Sheet (#015-09923)	1 - Square Heat Barrier (#093-0243)	1 - Grafoil Seal (#090-968)
1 - Anti-Seize Packet (#090-0146)	2 - Reflective Heat Tape, 30" (#090-31)	2 - Cable Tie (#090-45)
1 - Flange Gasket (#090-969)	1 - EGT Probe Eliminator Plug (#090-38)	1 - Spring Clip (#090-697)
1 - SLP Sticker (#60-60)	1 - Belly Pan Silicone Seal (#091-4095)	

Recommended Tools:

17" Spring Hook Tool (#20-322)
12" Spring Hook Tool (#20-210)
6mm x 5" Long Ball End Allen Socket (SLP #20-221)
3/8" Drive Ratchet
T-40 Torx Bit

17mm Crow's Foot
Torque Wrench
Ultra-Black Silicone (#090-24)

Installation Instructions:

1. Remove side panels and hood.

2. Unplug the silencer EGT probe from the wiring harness. Remove stock silencer. Retain springs for use during install (set aside stock silencer and silencer EGT probe).

***Note:** Not necessary to remove EGT probe from silencer as stock silencer and EGT probe will not be reused.*

3. Unplug pipe EGT probe from wiring harness. Using a 17mm end wrench or crow's foot, remove EGT probe from stock pipe. Remove stock pipe. Retain pipe EGT probe, pipe-to-silencer grafoil seal and springs (set aside stock pipe and stock y-pipe to pipe grafoil seal).

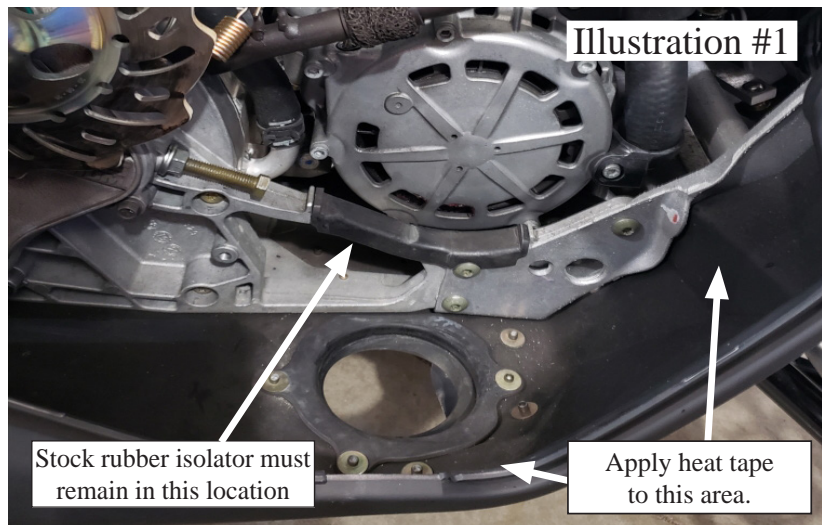
***Note:** For easiest removal of y-pipe to pipe springs, use SLP Spring Hook Tools (#20-210 and 20-322). Remove lower y-pipe springs by going in from the silencer side.*

4. Remove Stock y-pipe. Retain y-pipe bolts for use during installation.

***Note:** SLP 6mm x 5" Ball End Allen Socket (#20-221) will help with y-pipe removal.*

5. Install provided heat tape on the inside of the belly pan from the silencer outlet forward up the back side of the belly pan shock tower (see Illustration #1).

***Note:** Make sure the rubber isolator remains on the lower bulkhead silencer mounting location. (see Illustration #1).*



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6. Install provided square self adhesive heat blanket (#093-0243) on left front inside of belly pan (see illustration #2).

7. Remove foam from top inside of right hand side panel and install provided heat tape (see illustration #3)

8. Using a razor blade or gasket scraper, remove all remaining gasket material from cylinder to y-pipe mating surface.

9. Using provided exhaust flange gasket (#090-969), install SLP y-pipe with stock y-pipe bolts. Using torque wrench and 6mm x 5" ball end Allen (#20-221), torque bolts to **22 ft/lbs**.

10. Turn the handlebars full left and right and visually check clearance between steering column and SLP y-pipe. If there is less than 0.030" clearance between y-pipe and steering column, please contact SLP before proceeding with installation.

11. Install OEM Vibro insulator to pipe bracket located on the bottom of the pipe (see illustration #4).

12. Install provided Grafoil Seal (#090-968) onto the y-pipe, making sure that the alignment notches are lined up. Apply Permatex® UltraBlack® (SLP#090-24) or Loctite® RTV Silicone 598™ to Grafoil Seal notches.

13. Install SLP Pipe using stock silver colored springs removed from stock y-pipe.

Note: For easiest installation of y-pipe to pipe springs, use SLP Spring Hook Tools (#20-210 and 20-322). Install lower y-pipe springs by going in from the silencer side.

14. Install EGT probe in pipe with provided anti-seize (#090-0146) on threads and torque to **22 ft-lbs** with 17 mm crow's foot and torque wrench.

Note: Adding anti-seize to the probe threads will make removing the probe easier in the future.

15. Install stock pipe to silencer grafoil seal onto the end of pipe.

16. Plug the supplied silencer EGT probe eliminator plug (#090-38) into the stock silencer EGT probe connector in the wiring harness and secure in place using supplied cable tie (#090-45)(see illustration #5).

17. Remove the front upper bolt on the bulkhead. Slide the supplied spring tab (#090-697) onto the bolt and reinstall with the spring tab pointing in the 11 o'clock position. (see Illustration #6)

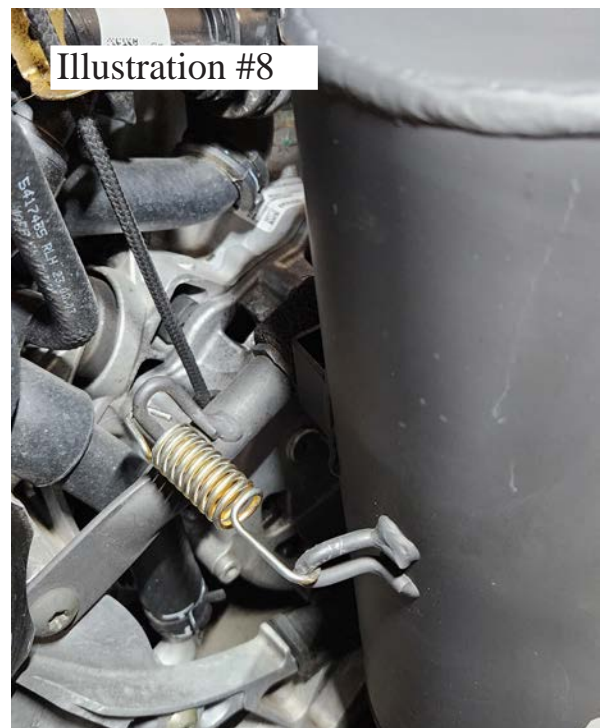
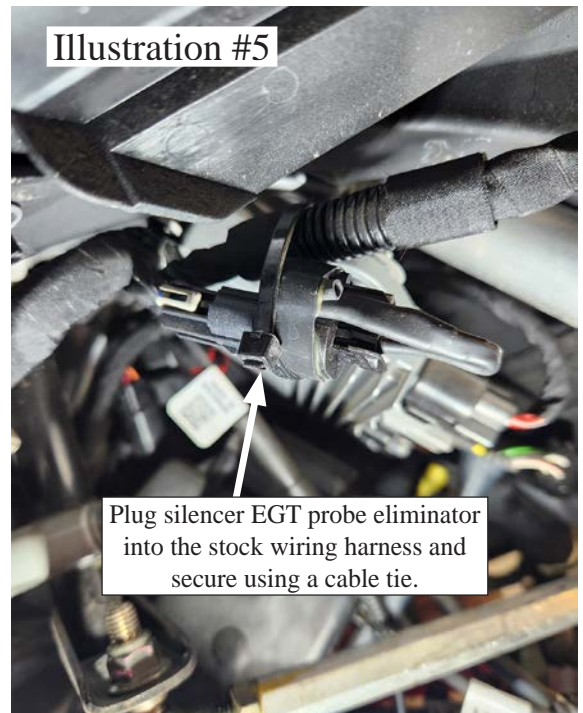
18. Install SLP Silicone Outlet Ring (#091-4095) onto the silencer outlet with rounded edge down (see illustration #7) and install silencer in sled making sure the stock rubber isolator is in place under the silencer bracket (see illustration #1). Spring the pipe to the silencer using stock gold colored springs. Spring the front side of the silencer to the spring hook installed on the bulkhead in step #17 with stock gold colored spring. Spring the rear of the silencer



to the bulkhead brace using the stock longer gold colored spring (see illustration #8).

Note: After silencer is installed, check above and under the sled to make sure SLP outlet seal and stock rubber seal are properly placed. Apply a high temp silicone sealer such as Permatex® UltraBlack® (SLP#090-24) or Loctite® RTV Silicone 598™ to glue silicone outlet ring to silencer.

19. Install hood and side panels. Plug in headlight wiring harness.



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 inspected 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 gage. If tension is incorrect, the loop on the pipe or silencer can be bent in the direction needed to increase or decrease tension. Attach a vise grip firmly to the loop and bend.

Caring for your ceramic coated pipes and/or silencer:

Ceramic Coating is applied to your exhaust system to provide a thermal barrier for more consistent performance. It is a coating which requires little maintenance to keep your pipes and/or silencer looking like new.

Upon completion of new installation, wipe the ceramic coated parts of the exhaust system down with water and a mild detergent. This will prevent oils and grease (usually in the form of fingerprints) from burning on and staining the exhaust during first initial startup.

To maintain your ceramic coated system, wash it with soap and water periodically (especially necessary after trailering it to and from your riding area on roads that have been treated with salt and other ice removing chemicals). Salt and other ice removing chemicals will attack and eat away at the ceramic coating. This will result in rust coming through the coating. Typically you will notice this rusting after your snowmobile has set for a period of time without the exhaust system being brought up to running temperature.

IMPORTANT:

When transporting snowmobile in an open environment (ie. open trailer or on a sled deck) SLP highly recommends covering the snowmobile. This will help keep road salt and other ice removing chemicals off of the pipe as it can attack and eat away at the coating.

FUEL RECOMMENDATION:

It is recommended to use 91 octane fuel with this exhaust system. Please check to ensure that you have selected the proper mode on your gauge for the fuel you are using (ethanol or non-ethanol).

SPARK PLUG RECOMMENDATION:

NGK BPR9ES or BPR9EIX

Clutching for Polaris 2023-25 9R Matryx RMK/Khaos with SLP Single Pipe Kit

Important: The following clutching information has been thoroughly tested and is highly recommended for proper performance and reliability. Primary weights, drive spring, driven spring and helix must be changed according to the chart if applicable for your elevation. Running any combination other than recommended may cause poor, inconsistent performance.

Altitude (feet)	Drive Clutch		Driven Clutch	
	Clutch Spring	Shift Weight	Clutch Spring	Driven Helix
0-3000'	Blue/ Yellow SLP# 40-70	Magnum Force Weights SLP# 40-176 (76g) 4 Set Screws 1 Lock Set	Red/Black (SLP #50-6)	64-42.36 ER (SLP#50-151)
3-6000'	Blue/ Pink SLP# 40-76	Magnum Force Weights SLP# 40-175 (73g) 6 Set Screws 1 Lock Set	Red/Black (SLP #50-6)	64-42.36 ER (SLP#50-151)
6-8000'	Blue/ Pink SLP# 40-76	Magnum Force Weights SLP# 40-175 (73g) 4 Set Screws 1 Lock Set	Red/Pink (SLP #50-41)	64-42.36 ER (SLP#50-151)
8-10,000'	Blue/ Pink SLP# 40-76	Magnum Force Weights SLP# 40-175 (73g) 3 Set Screws 1 Lock Set	Red/Pink (SLP #50-41)	64-42.36 ER (SLP#50-151)
10-12,000'	Blue/ Pink SLP# 40-76	Magnum Force Weights SLP# 40-173 (70g) 2 Set Screws 1 Lock Set	Red/Pink (SLP #50-41)	62-42.36 ER (SLP#50-152)

Running RPM 8150-8300