



“Setting the World’s
Performance Standards”

743 E. Iona Road, Idaho Falls, ID 83401, (208) 529-0244 Fax (208) 529-9000

SLP Stage 3 Performance Kit for 2018-19 Arctic Cat 8000

The following tuning specifications are configured to work specifically with the SLP Stage 3 Performance Kit. Read and install products using their individual instruction sheets and use this instruction sheet for clutching specifications.

After completely following the setup instructions if you are experiencing difficulty SLP technical assistance is available online at the SLP website:

www.startinglineproducts.com
or by phone @ 208-524-3397

Starting Line Products • 743 E. Iona Rd. Idaho Falls, ID 83401
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For instructions in color please visit us on the web @ www.startinglineproducts.com



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SLP Stage 3 Performance Kit for 2018-19 Arctic Cat M8000

Stage 3 Performance Kit Contents:

(1) 09-8018 Single Pipe Set for 2018-19 models, or 09-8019 Competition Series Pipe Set

(1) Power Dome™ Billet Head Set

| | | Part# |
|-----------|---------|--------|
| Elevation | 0-6000’ | 12-801 |
| | 6000’+ | 12-800 |

(1) 70-199 Power Commander V

| Fuel | Part# |
|-------------|--------|
| Ethenol | 70-296 |
| Non-Ethenol | 70-297 |

(1) SLP Clutch Kit

(1) 22-145 V-Force 3 Reeds

Oil Recommendation: We highly recommend the use of Redline Full Synthetic Race Oil.

FUEL REQUIREMENTS: 91 octane minimum



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Power Dome™ Billet Heads for 2018-19 Arctic Cat 8000

Kit Contents:

2 - Spark Plug O-Rings (Part# 12-8002)

2 - SLP Domes (See Chart) →

1 - SLP Water Cover (Part# 12-8001)

| Combustion Chamber Insert (Dome) Part # | Altitude |
|---|----------------------|
| 12-801 | 0-5000' (0-1525m) |
| 12-800 | 5000'+ (1526m +) |

Head Removal / Installation

Step 1. Disconnect exhaust temperature sensor.

Step 2. Remove the expansion chamber and resonator, account for the springs, and then remove the y-pipe.

Step 3. Drain the engine coolant.

Step 4. Remove the cap screws securing the cylinder head, then lift the front of the head and remove the O-ring.

Step 5. Carefully lift and turn the cylinder head to gain access to the hose clamp securing the coolant hose to the cylinder head. Loosen the clamp and remove the coolant hose and breather hose connected to the cylinder head.

Step 6. Re-install in reverse order.

Step 7. Torque the cap screws securing the cylinder head in a 2-step patten. First torque them to **13 ft/lbs** in a cross patten, then to **25 ft/lbs** in the same cross patten (see illustration below).

This kit must be used with SLP pre-programmed Power Commander PC V. SLP Part #70-199 with SLP Part #70-296 or #70-297 fuel map. This Pre-programmed fuel map is compatible with the SLP Power Dome Billet Head Set, Single Pipe, Intake Kit (optional) and V-Force 3 Reeds (optional). Other modifications not recommended.

-Fuel Requirements:

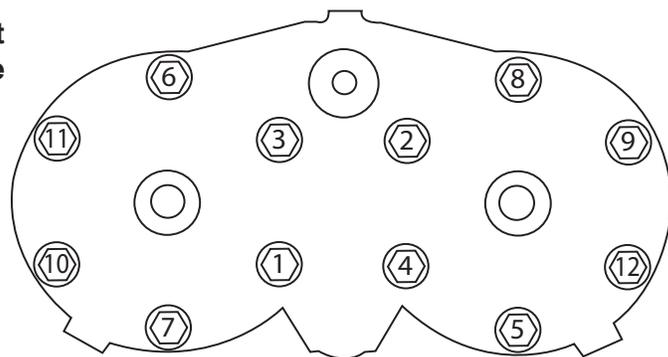
- 91 Octane minimum

-Non-Ethenol Fuels: Use SLP Map Part #70-296

-Ethenol Fuels: Use SLP Map Part# 70-297

Important Note: Knock sensor must be torqued to 18 ft/lbs (16 Nm). Over torquing the Knock sensor will damage it.

Spark Plugs recommended torque is 18 ft/lbs (39 Nm).



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Stage 3 Clutching for 2018-19 Arctic Cat M8000

Important: The following clutching information has been thoroughly tested and is highly recommended for proper performance and reliability. Primary weights, drive spring and driven spring 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 | | Clutch Spring | Driven Clutch | |
|--------------------|-------------------------------------|--|------------------------|----------------------------|------------------------|
| | Clutch Spring | SLP Magnum Force™ Shift Weight | | Good | Driven Helix Better |
| 0-2000' | SLP Green / Silver SLP# 40-72 | SLP Magnum Force™ SLP #40-152 7 set screws 1 lock set | Stock 180/240 | 48° Straight (Stock) | N / A |
| 2000-4000' | SLP Green / Silver SLP# 40-72 | SLP Magnum Force™ SLP #40-152 6 set screws 1 lock set | Stock 180/240 | 48° Straight (Stock) | N / A |
| 4000-6000' | SLP Green / Silver SLP# 40-72 | SLP Magnum Force™ SLP #40-152 5 set screws 1 lock set | Stock 180/240 | 48° Straight (Stock) | N / A |
| 6000-8000' | SLP Green / Pink SLP# 40-77 | SLP Magnum Force™ SLP #40-152 2 set screws 1 lock set | SLP #50-138 200/280 | 48° Straight (Stock) | 46° SLP #52-102 |
| 8000-10000' | SLP Green / Pink SLP# 40-77 | SLP Magnum Force™ SLP #40-152 1 set screws 1 lock set | SLP #50-138 200/280 | 48° Straight (Stock) | 46° SLP #52-102 |
| 10000 ft | SLP Green / Pink SLP# 40-77 | SLP Magnum Force™ SLP #40-152 Empty | SLP #50-138 200/280 | 48° Straight (Stock) | 46° SLP #52-102 |

Running RPM 8250-8450

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