

# ARCTIC CAT 800 TWIN

## SINGLE PIPE SET

### P.N. 09-860 & 09-860CP

1- Remove stock pipe and canister retain stock mounting hardware for pipe installation. (NOTE: keep the stock pipe support saddle in place for SLP pipe installation. This pipe will also use the stock y-pipe.)

2- Remove stock canister bracket from the left side of the chain case and re-mount on the right side after grinding the bracket for chain case clearance. (See ILL. # 1)  
(NOTE: Check rubber insulator bolt for chain case clearance the bolt may need to be ground down slightly for at least 1/8" clearance.)

3- Cover the inside top edge of the belly pan and 1" down the outside of the belly pan with reflective heat tape in the area closest to the silencer. Place the supplied rubber insulator stem in the support bracket hole on the side of the silencer. Insulator will hold the silencer away from the chain case. Using the stock mounting brackets install the SLP silencer and bolt to stock rubber insulators.

4- Set the SLP single pipe in place looking under the pipe at the PTO shock tower remove the pipe and cover the shock tower with reflective heat tape in the area closest to the pipe.

**NOTE:** For best performance we recommend that all connections be sealed with a silicone sealer such as Loctite 598 Ultra Black or equivalent.

5- Install SLP single pipe using stock gaskets and springs. Using two SLP springs connect the pipe to the stock pipe support on each side of the pipe.

**Important Note:** Fuels containing ethanol, alcohol based fuel compounds, or clean air additives will require larger main jets, usually 2 sizes more than the SLP jetting chart. Jet Needle must be raised one "E" clip position.

**IMPORTANT NOTE: CARB TUNING SPECIFICATIONS INCLUDED IN THIS SECTION ARE A BASE LINE AND SHOULD BE ADJUSTED AS NEEDED FOR YOUR PARTICULAR ATMOSPHERE. USE EXHAUST GAS TEMPERATURE GAUGES OR MONITORING PLUG AND PISTON COLOR FOR TUNING GUIDE.**

**Jetting Arctic Cat 800 ZR/ZL/Mountain Cat with SLP Single Pipe and Stock Air Box**

| Temperature             | -40 to 20°F<br>(-40 to -29°C) | -20 to 0°F<br>(-29 to -18°C) | 0 to +20°F<br>(-18 to -7°C) | +20 to +40°F<br>(-7 to +4°C) |
|-------------------------|-------------------------------|------------------------------|-----------------------------|------------------------------|
| Altitude- Feet (Meters) | PTO/Mag                       | PTO/Mag                      | PTO/Mag                     | PTO/Mag                      |
| Over 12,000 (+3658m)    | 320/320                       | 310/310                      | 300/300                     | 290/290                      |
| 10,000 (3048)           | 340/340                       | 330/330                      | 320/320                     | 310/310                      |
| 8000 (2438)             | 350/350                       | 340/340                      | 330/330                     | 320/320                      |
| 6000 (1829)             | 370/370                       | 360/360                      | 350/350                     | 340/340                      |
| 4000 (1219)             | 410/410                       | 400/400                      | 390/390                     | 380/380                      |
| 2000 (610)              | 450/450                       | 440/440                      | 430/430                     | 420/420                      |
| 0 (0)                   | 470/470                       | 460/460                      | 450/450                     | 440/440                      |

**Note: If shelf is removed from airbox increase main jet two sizes from chart**

| Altitude                      | Pilot Screw Setting | Pilot Jet | Needle Jet | Jet Needle |
|-------------------------------|---------------------|-----------|------------|------------|
| 0-3000 Ft<br>(0-915m)         | 1 1/4 Turns out     | 50        | (Fixed)    | 9DFH2-59-4 |
| 3-5000 Ft<br>(915-1524m)      | 1 1/2 Turns out     | 50        | (Fixed)    | 9DFH2-59-3 |
| 5-9000 Ft<br>(1524-2743m)     | 1 1/2 Turns out     | 50        | (Fixed)    | 9DFH2-59-1 |
| Above 9000 Ft<br>(above 2743) | 1 1/2 Turns out     | 50        | (Fixed)    | 9DFH2-59-1 |

**Clutching for ALL Arctic Cat 800 with SLP Single Pipe**

| Altitude                   | Drive Clutch    |                                | Driven Pulley  |               | Gear Ratio |
|----------------------------|-----------------|--------------------------------|----------------|---------------|------------|
|                            | Cam Arm         | Spring                         | Torque Bracket | Spring        |            |
| 0-3000 ft.<br>(0-900m)     | 0746-616<br>66g | Black/ Yellow<br>SLP<br>#40-67 | 55°-53°        | Red/<br>White | 24/39      |
| 3-5000 ft.<br>(900-1525m)  | 0746-615<br>62g | Black/ Yellow<br>SLP<br>#40-67 | 55°            | Red/<br>White | 21/41      |
| 5-9000 ft.<br>(1525-2743m) | 0746-615<br>62g | Black/ Yellow<br>SLP<br>#40-67 | 55°            | Red/<br>White | 21/41      |
| Above 9000<br>Above 2743m  | 0746-617<br>60g | Black/ Yellow<br>SLP<br>#40-67 | 53°            | Red/<br>White | 21/41      |

**Running RPM 7600-7900**

# Illustration 1

