



# ***BoonDocker***

***P E R F O R M A N C E***

***Polaris RZR 900  
Installation Instructions***



# **BoonDocker RZR Turbo 900**

## **KIT CONTENTS LIST**

### **Hardware Kit Bag**

- (4) 8mm x 30mm allen head bolts
- (4) 8mm x 25mm bolts
- (4) 8mm lock nuts
- (2) Gold exhaust springs
- (4) High tension exhaust springs
- (6) 8" zip ties
- (4) 4" zip ties
- (2) 3/8" barbed unions
- (4) #6 hose clamps
- (1) Turbo mount template

### **Silicone Kit Bag**

- 3" piece of 2" black silicone
- (2) 2.125" piece of 2.25" pieces of black silicone
- (4) #36 hose clamps
- (2) #32 hose clamps

### **Oil Drain Kit Bag**

- Oil drain line with banjo fitting installed
- (1) #8 x 1/2" self tapping screws
- (2) rubber insulated clamps
- 12mm banjo bolt
- (2) copper washers
- #12 hose clamp

### **Oil Feed Kit Bag**

- Oil feed hose
- 1/2" x 4an adaptor

### **Fuel System Kit Bag**

- Fuel line assembly
- (2) Auxillary injectors
- (2) #4 hose clamps
- (2) 1/4" x 1.5" allen head bolts

### **Intercooler Kit Bag**

- Pull fan
- (2) 1/4" x 1/2" bolt
- 1/4" x 3/4" bolt
- (3) 1/4" lock washers
- Fan power adaptor harness
- Intercooler

### **Separate Parts:**

- 1548 Turbocharger Indexed to turbo bracket
- Adustable actuator
- Exhaust inlet
- Exhaust outlet
- Body bracket for muffler
- Muffler
- (2) 3.5" x 12" decals

### ○ **Boondocker control box**

- Control box
- Air solenoid valve
- Battery jumper
- Velcro
- 30" of boost line
- (5) 8" zip ties
- (5) 4" zip ties

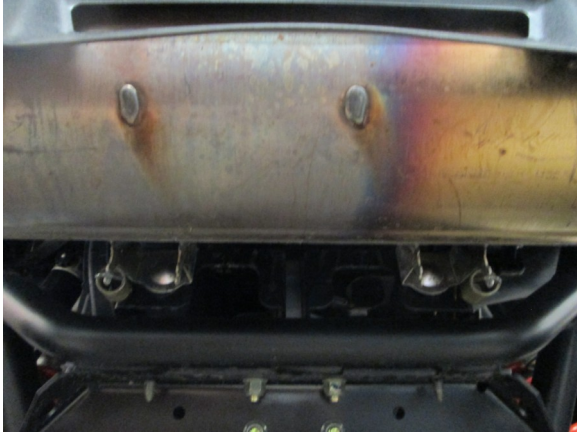
### ○ **Clutch kit**

- Team Rooster weights
- Red with black/gold striped primary spring
- Green with silver secondary spring

### **Performance Plus Kit Only:**

- 8 Valve seals
- 8 Valve springs
- Headgasket

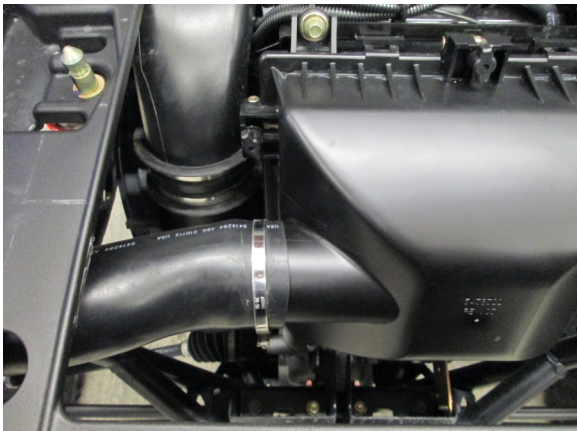
# **BoonDocker RZR Turbo 900**



1. **REMOVE MUFFLER** Remove the 2 exhaust springs connected to the bottom of the muffler.



2 Remove the 2 exhaust springs connecting the header to the muffler. The muffler can now slide off the hangers. Slide toward the passenger side of the vehicle.



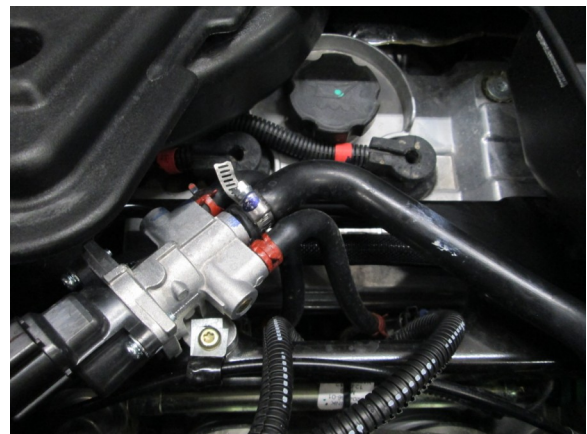
3. **REMOVE AIRBOX** Remove the rubber hose connecting the airbox to the air intake.



4. Remove the 2 bolts connecting the airbox to the airbox bracket.



5. Loosen the 2 clamps holding the airbox to the throttle bodies.



6. Remove the breather hose from the Idle Air Control unit. Pull the airbox out of the vehicle and reinstall the bolts, grommets and spacers to the airbox mounting bracket.

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7. **REMOVE SKIDPLATE** Remove the 14 bolts and washers that fasten the skidplate to the frame.



8. **REMOVE SEATS AND REAR PANEL** Remove the seats from the vehicle and the rear panel using a T 25 torx head bit.



9. **REMOVE ENGINE HEAT SHIELD** Remove the 7 bolts holding the heat shield in place, pull the heat shield down to remove it from the vehicle.



10. **DRAIN OIL** Remove the factory drain plug and set aside. We will not be reinstalling this plug.



11. **REMOVE MUFFLER MOUNT** Using an air saw or hack saw, remove the passenger side muffler mount to make room for the turbo inlet.

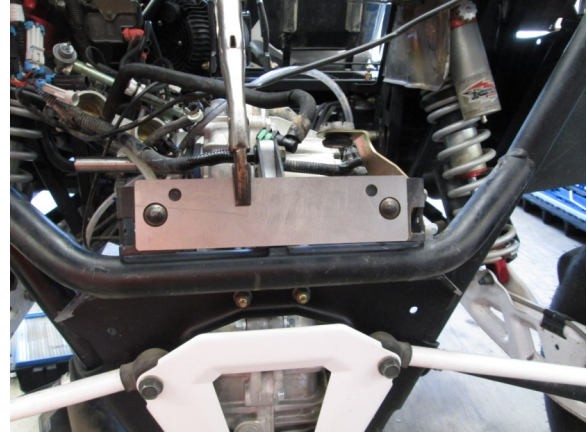


12. Cutting the bracket from the backside with an air saw is ideal. File any sharp edges.

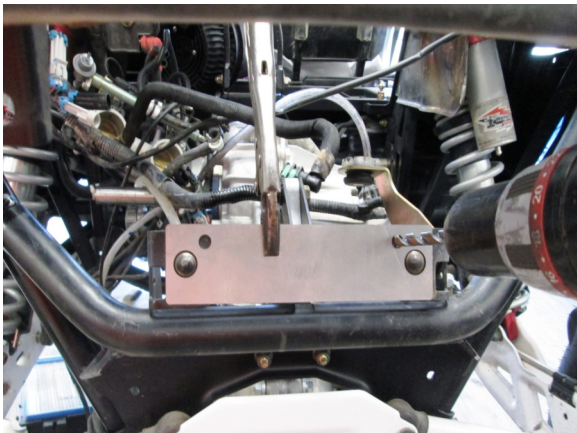
# **BoonDocker RZR Turbo 900**



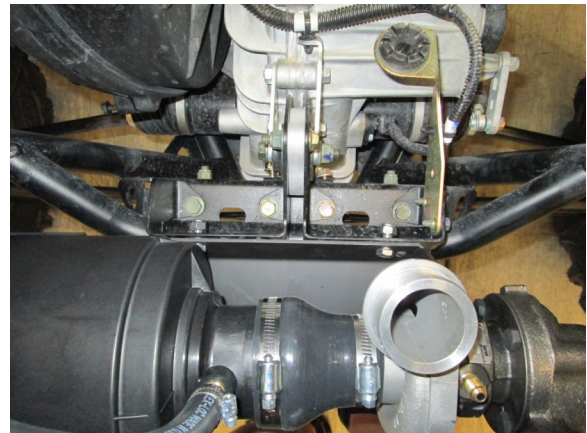
13. **PREPPING THE STOCK MUFFLER BRACKET** Remove the nuts from the lower rear engine mount bolts.



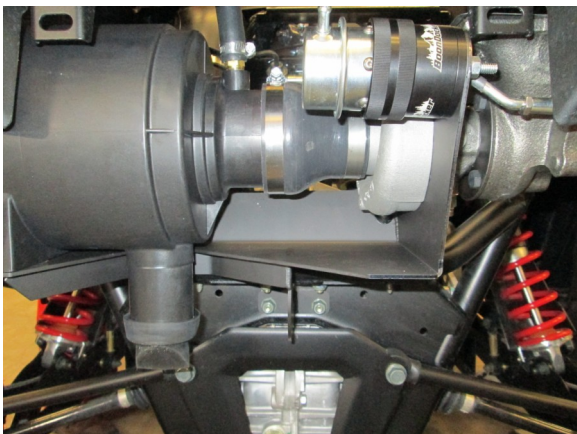
14. Center the turbo mount template to the stock muffler bracket as shown. Secure the template to the vehicle with vise grips.



15. drill 2x 11/32" holes into the stock muffler bracket as shown.



16. **MOUNTING THE TURBO/BRACKET** Using the 2 5/16 x 3/4" bolts, fasten the turbo bracket to the stock muffler bracket. Use the 11/32" holes drilled in the previous step.



17. Using the factory lower engine mounting bolts, fasten the bottom of the turbo bracket to the vehicle.



18. **INSTALLING WATER LINES** Follow the factory coolant line from the thermostat lamp each side of the 90 degree bend with vise grips. Make a cut after the 90 degree bend.

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19. Rotate the 90 degree bend coming from the thermostat toward the rear of the machine.



20. Route the 15" water line from the inside of the turbo to the 90 degree coming from the thermostat.



21. Trim line as needed, then install the 3/8" barbed union and fasten with 2 #6 hose clamps.



22. Route the 24" water line to the outside of the turbo to the open end of the coolant line cut in step 18.



23. Trim line as needed and fasten this connection with the 3/8" barbed union and (2)#6 hose clamps.



24. **INSTALLING OIL DRAIN LINE** Locate the oil drain line and fasten the 5/8" side of the hose to the turbo oil drain using a #12 hose clamp.

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25. Route the 3/8" end of the oil drain line to the oil drain on the motor. Use the 2 copper washers to sandwich the banjo fitting and fasten to the motor with the 12mm bolt. Zip tie as shown.



26. Use the provided rubber clamp and existing bolt to fasten the oil drain hose to the motor. Make sure the hose is not touching any abrasive objects or heat source



27. Using the remaining rubber clamp and self tapping screw fasten the oil drain hose to the shifter cable bracket as shown in picture.



28. **INSTALLING OIL FEED LINE**  
Remove the 1/2" oil plug from the front of the motor.

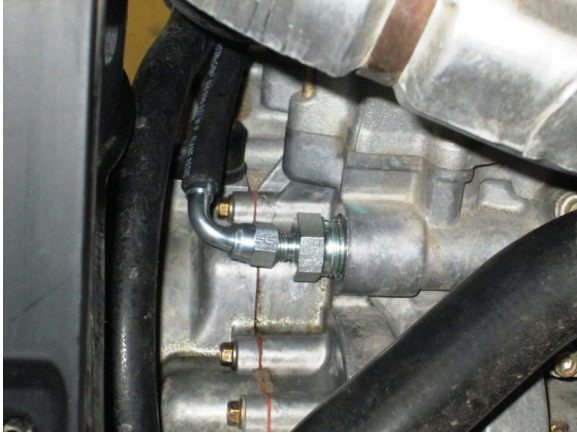


29. Apply a thread sealant to the 1/2" pipe thread side of the 4an adaptor then install the adaptor to the motor.



30. Locate the oil feed line and fasten to the oil inlet on turbo as shown in picture.

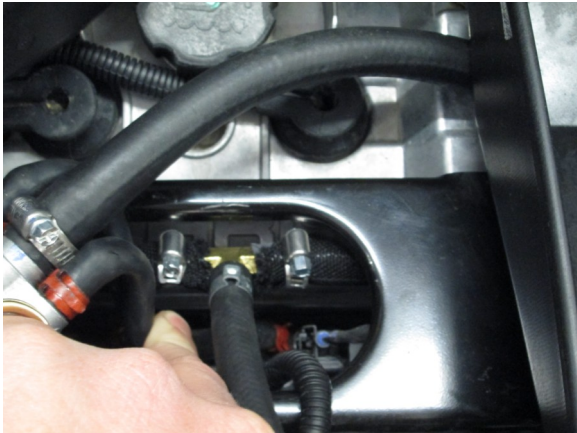
# **BoonDocker RZR Turbo 900**



31. Route the oil feed line from the turbo and to the 4an adaptor installed on step 29. Make sure to route hose away from any heat source and abrasive objects.



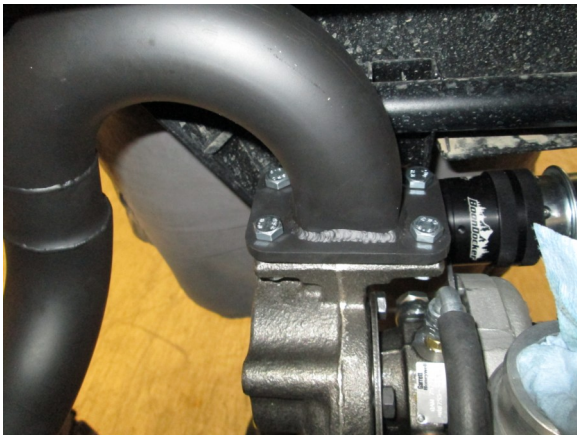
32. **INSTALLING FUEL LINE** Locate and cut the factory fuel line as shown in picture.



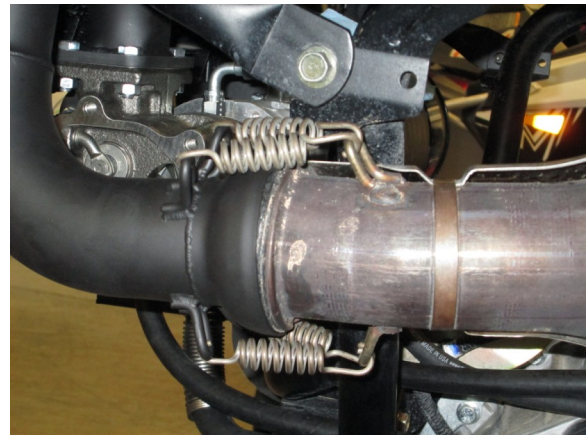
33. Insert a #4 hose clamp from either side of the factory fuel line. Using the BoonDocker fuel line "T" into the stock fuel line as shown.



34. **INSTALLING EXHAUST INLET**  
Apply hi-temp black silicone to the inside of the turbo inlet.



35. With the 4-hole flange inserted between the turbo and inlet, fasten the turbo inlet to the turbo using the 4 8mm x 25mm bolts and lock nuts.



36. Fasten the turbo inlet to the stock header using the 4 BoonDocker hi-tension exhaust springs. These springs are a tight fit, this is to ensure this connection does not separate.



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37. **INSTALL TURBO OUTLET** Fasten the turbo outlet to the turbo using the 8mm x 30mm allen head bolts.



38. **INSTALL MUFFLER** Remove the bed support bracket on the passenger side of the vehicle.



39. Install the bed support bracket replacement.



40. Remove the 2 passenger side tie down support brackets from the inside of the bed.

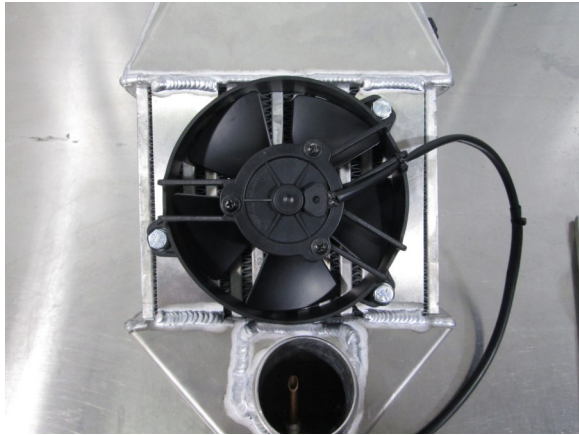


41. Pry the bed off of the mounting bracket and slide the muffler mounting tabs in between the bed and the bed mounting bracket. Loosen addition bed bolts if needed.



42. Align the muffler to the turbo inlet, outlet and tie down support bracket holes. Reinstall the support brackets and fasten the muffler to the outlet using the 2 provided gold springs.

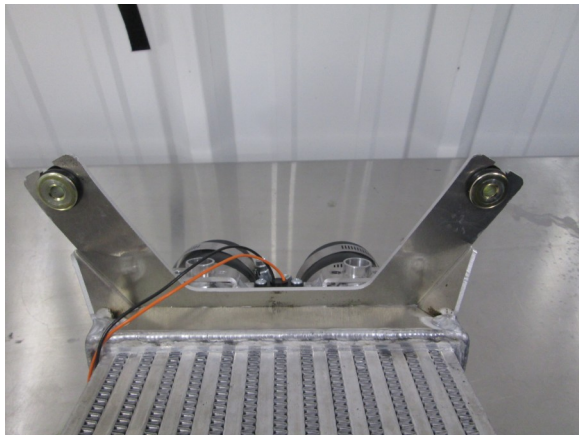
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43. **INSTALLING THE INTERCOOLER**  
Mount the fan to the intercooler using the 3 provided bolts. Note the longer bolt will need to be used on the raised fan mounting tab.



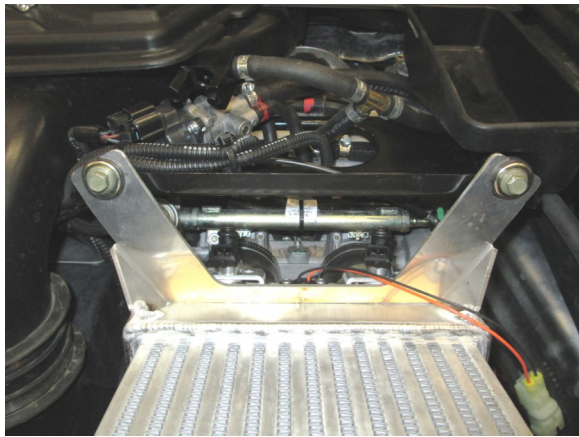
44. Install the 3 silicone hoses and clamps to the intercooler. Do not tighten the clamps until the intercooler is installed, this way you can find the best angle to access the clamp.



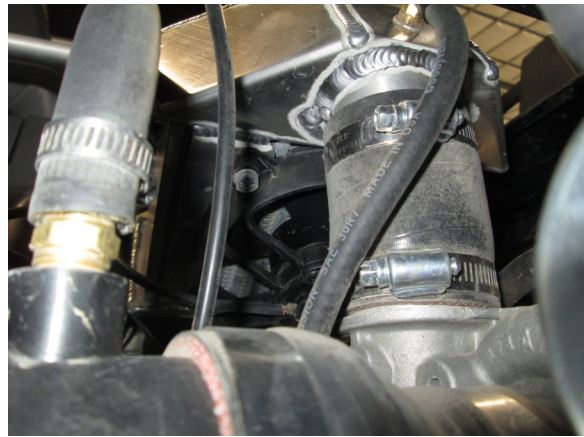
45. Install the grommets and spacers used from the factory airbox onto the intercooler mounting bracket.



46. Slide the intercooler onto the throttle bodies and the outlet on the compressor housing of the turbo. Tighten the clamps connecting the intercooler to the throttle bodies.



47. Fasten the intercooler mounting bracket to the stock airbox mounting bracket using the stock bolts.

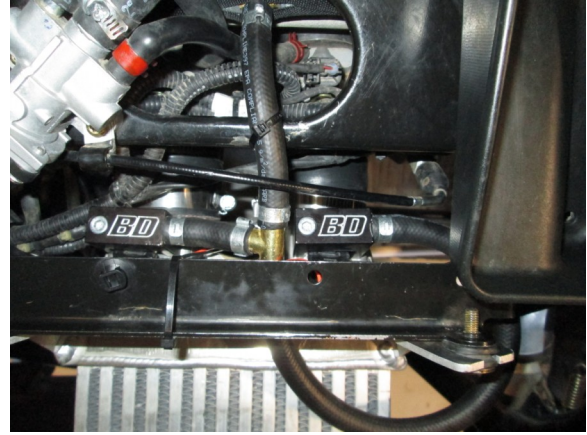


48. Tighten the clamps connecting the intercooler to the turbo.

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49. **INSTALLING THE FUEL RAILS** Apply assembly lubricant to the upper o-rings on the fuel injectors and insert them into the fuel rails.



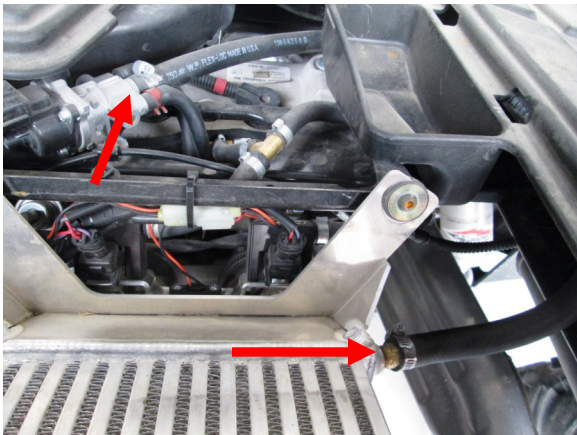
50. Apply assembly lubricant to the lower o-rings on the fuel injectors and insert them into the intercooler. Route as shown. Fasten the 2 fuel rails with the 1/4-20 x 1 1/2" allen head bolts.



51. **POWERING UP THE FAN** Route the fan power harness from the fan and "T" into the taillight power harness located under the rear fender on the drivers side.



52. **PLUMBING THE AIR CLEANER** Install the provided intake hose from the Donaldson air cleaner to the factory air intake.



53. Install the 1/2" hose from the intercooler to the Idle Air Control Unit.

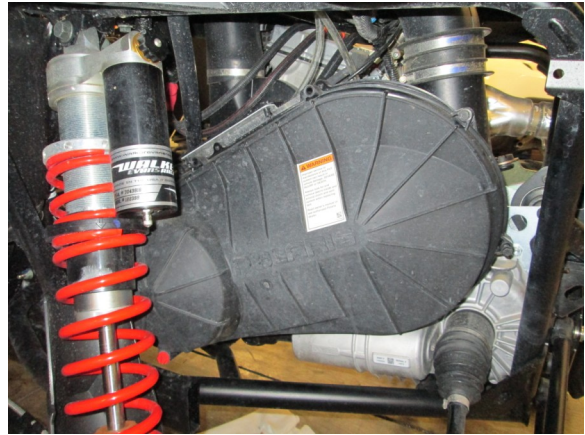


54. Look over all the hose routing to make sure the clamps are tight and there are no kinks or sharp bends in the hoses. Make sure to keep hoses away from sharp objects. Zip tie hoses.

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55. **INSTALL BOONDOCKER CONTROL BOX** Refer to control box installation instructions.



56. **CLUTCHING**  
Remove the clutch cover, and rear shock.



57. Remove the belt and secondary clutch.



58. Remove bolts from helix, remove helix.



59. Get clutch press and remove snap ring. Make sure you mark the position of the sheaves, rollers and helix for reinstallation.



60. Replace stock spring with the provided Green/ silver spring. Roller holder is indexed to inner spindle. Install using the press.

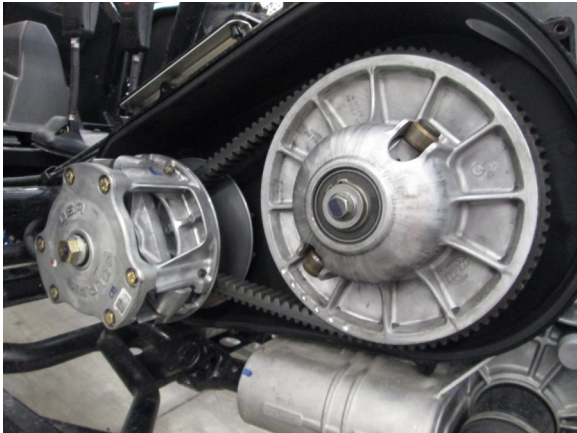
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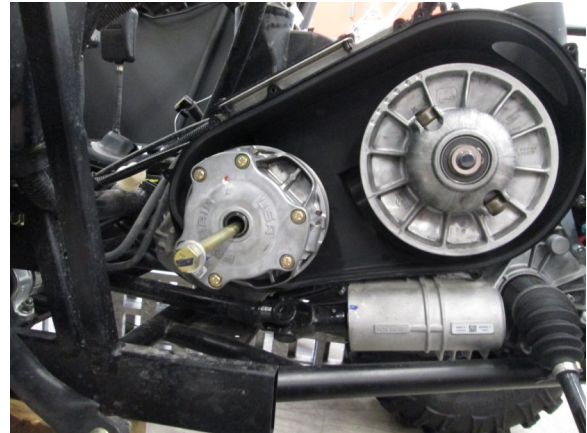
61. Install snap ring.



62. Reinstall the factory helix, Be sure to reindex to the marks made previously on step 59. Use blue locktite when reinstalling the factory screws.



63. Reinstall factory clutch.



64. Remove primary clutch bolt.



65. Remove clutch cover.



66. Remove clutch weights.

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67. Install preloaded clutch weights



68. Install the red w/black and gold primary spring. Reinstall the clutch belt and clutch cover. Tighten all bolt to factory specs. Reinstall clutch cover and shock.



69. **FINISHING TOUCHES** Be sure to refill the coolant and oil before starting the vehicle.