



## Slingshot Ultimate Oil Kit DDM-part number



The DDMWorks Slingshot Ultimate Oil Kit has many benefits including cooler oil temps, larger filter which is easier to access, pre tapped location for oil gauges, and increased oil capacity.

If you are pretty handy with tools the Ultimate Oil Kit can be installed in about an hour, however we suggest that you schedule at least a few hours for the installation.

If you have any questions during the installation you can call or text (864) 907-6004 or email us at [Tech@ddmworks.com](mailto:Tech@ddmworks.com).

| TOOLS NEEDED  | QTY | PART DESCRIPTION           |
|---|-----|----------------------------|
| 16mm, 19mm, 1 1/4 in. Sockets   | 1   | Oil Filter Adapter         |
| 18mm, 1 in. Wrench  | 1   | Oil Filter Remote Assembly |
| 6mm, 5mm Allen  | 1   | Oil Cooler Assembly        |
| T40 torques   | 3   | Oil Lines                  |
| Make sure that the car engine is cool to the touch and you are in a well ventilated area away from open flames. | 1   | Hardware Packet            |
|   | 1   | Box of Awesome             |
|   |     |                            |

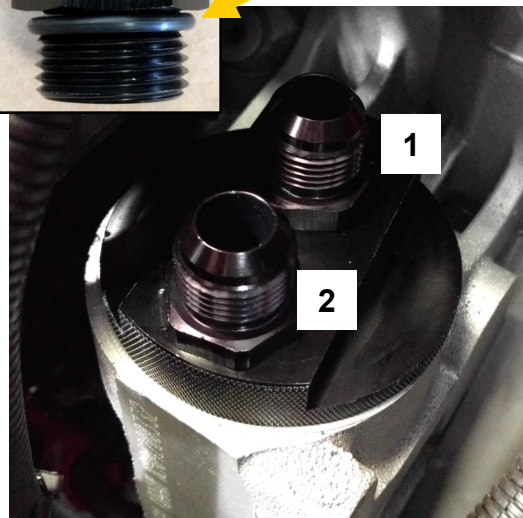
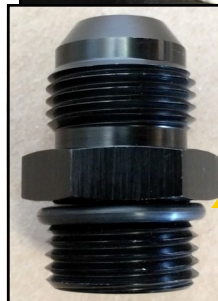


119-A Hwy 183  
Piedmont, SC 29673

**Tech Support**

## Ultimate Oil Kit Installation

1. Make sure your engine is cool and the Slingshot has not been ran for a few hours, or better let sit over night. You will be working with the engine's oil system which can get very hot.
2. Remove the stock oil filter. Have some towels handy to catch and clean up any oil spilled when removing the filter.
3. Use some oil to lube the O-Rings on the New Oil Filter Adapter before inserting it into the engine oil filter location. **Included in your kit are shims that will go in-between the two halves of the Oil Filter Adapter. Start with 1 shim and install the adapter. Check the orientation, remove the adapter and add more shims if needed.**
4. Included in you kit are two O-Ring to -10 AN adapter fittings. These two fittings get inserted into the Oil Filter Adapter **AFTER** the adapter has been installed into the engine. You will not be able to install the Oil Filter Adapter if these fittings are installed first.
5. Starting with the Fitting at the back (#1 in the photo) Lube the O-Ring and insert the fitting with the O-Ring side into the oil filter adapter. And tighten it down using a 1 inch wrench. Then repeat on the next fitting ( #2 ).

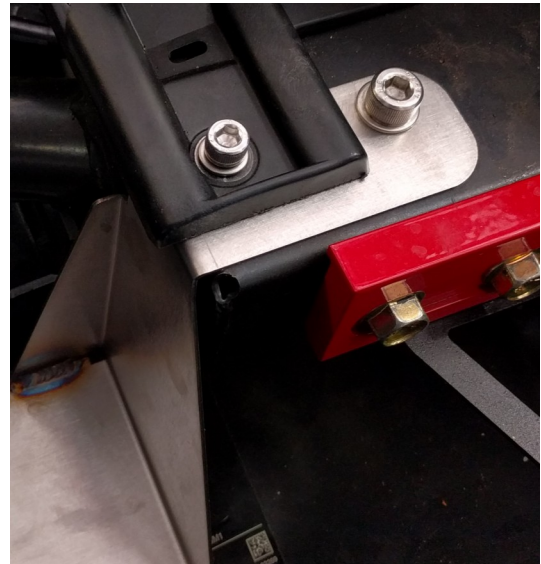
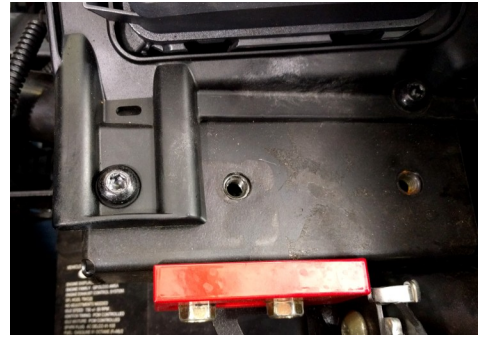


## Ultimate Oil Kit Installation

6. In your kit you will find the Remote Oil Filter assembly ready to be bolted into the slingshot. If you have any wiring or fuse boxes they may need to be relocated at this time so there is no interference.

7. Using a T40 bit remove the factory bolt holding the ECM/Fuse box bracket to the frame.

8. Lift up slightly on the plastic bracket and slide the Remote Oil Filter assembly under the plastic. Then using the supplied M6 bolt and washer for the forward bolt hole and the M8 bolt and washer for the rear hole bolt the assembly in place and tighten down.

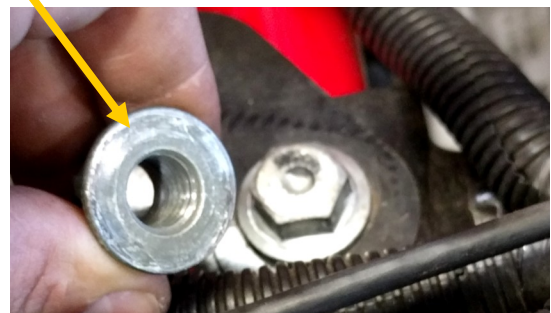


9. Moving on to the Oil Cooler section of the installation. Where the Radiator support bar meets the Frame of the slingshot on the Drivers side there is a Bolt and to the right of it an empty hole.

10. The head of the bolt is a 16mm and under it is an 18mm Nut that needs to be removed so we can install the Cooler.

11. With the Nut removed and the bolt still in place, locate the M12x75mm Bolt, 1 washer, and Nut included in your kit.

The New M12 bolt and washer gets inserted into the extra hole on the right of the existing bolt.



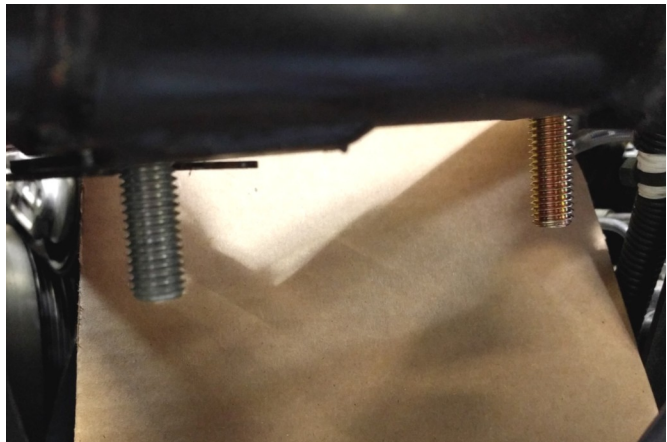


## Ultimate Oil Kit Installation

12. With both bolts ready, locate your new Oil Cooler Assembly included in your kit. You will see there are two Bolt holes in the bracket on the Oil Cooler.



13. Slip the cooler assembly into place with cooler facing out toward the suspension and the AN fittings pointing down towards the ground. Place the bracket over the two bolts and follow it with the corresponding nuts. Then tighten them both down.



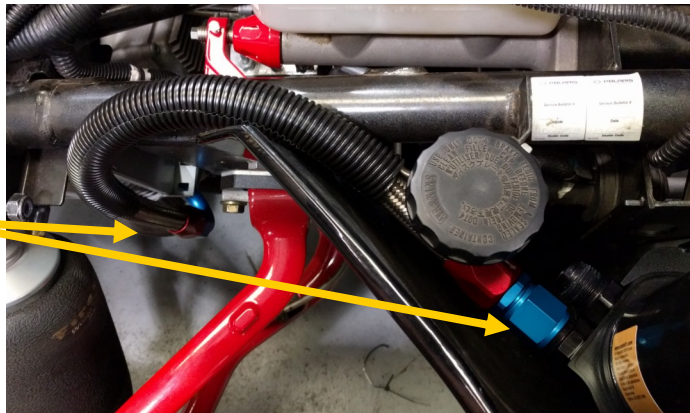
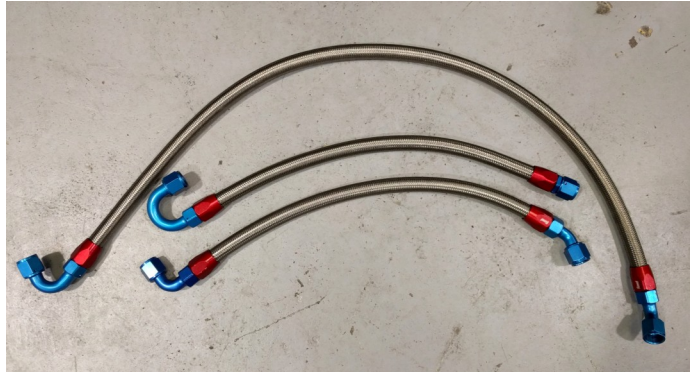
## Ultimate Oil Kit Installation

Now that you have the three major components in place it is time to connect them all with the Oil Lines included in your kit.

14. We will start with the Oil Cooler Out to Oil Filter In line. This is the line that has a 180 degree fitting on one end and a straight fitting on the other end. The straight fitting connects to the Oil In fitting on the Oil Filter Remote. And the 180 degree fitting connects to the Oil Cooler Out fitting on the Cooler assembly as shown in this photo.

With the fittings in place tighten them down using a 1 inch wrench. The 180 degree fitting on the cooler needs to be clocked so it does not touch the cooler or the frame of the slingshot.

15. The second Oil Line to be installed is the Oil Filter Remote Out to Oil Adapter In. This is the Oil Line that has a 90 degree fitting and a 45 degree fitting. The 90 degree fitting connects to the Remote Oil Filter Out and the 45 degree connects to the Oil Adapter In on the engine. With those in place tighten them down making sure the 90 degree fitting is angled in toward the engine but not touching the frame. The 45 degree angle fitting should be clocked slightly toward the back of the engine compartment leaving room for the second fitting to be installed next.





## Ultimate Oil Kit Installation

16. The third and final Oil Line to be installed is the longest of the three lines. It has a 45 degree bend on one side and a 120 degree bend on the other.

The 120 degree fitting connects to the Oil Cooler In and the 45 degree fitting connects to the Adapter Out.

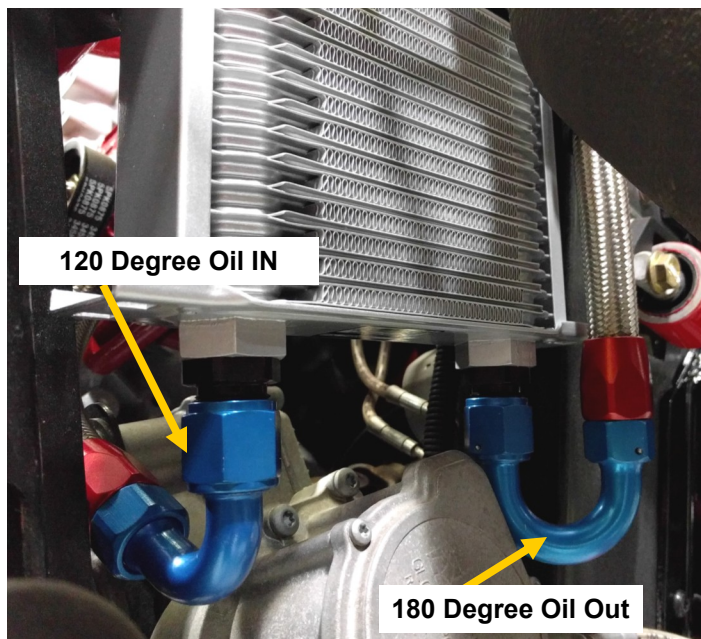
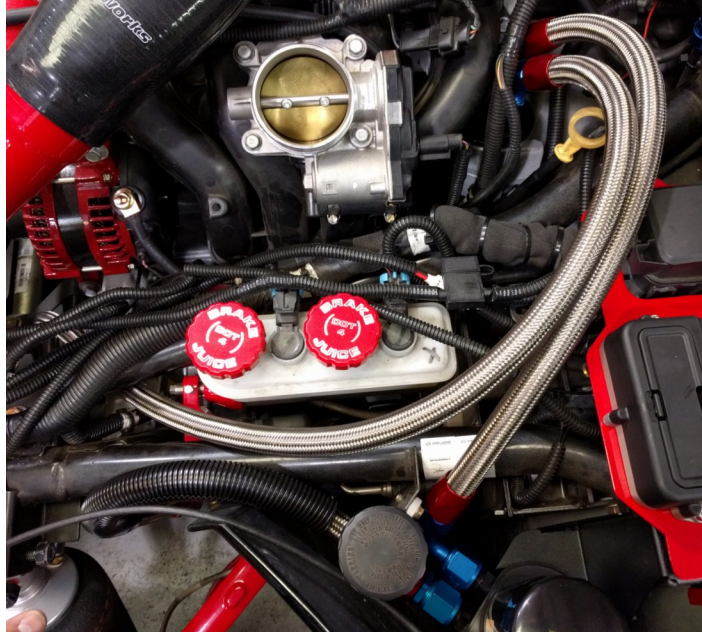
Route the 120 degree fitting end of the line down in between the 2 bars of the slingshot frame just in front of the brake master cylinder. Then connect the fitting to the oil cooler so it points up and in towards the engine.

The 45 degree end of the line attaches to the Oil Out fitting on the Oil Adapter in the engine. This fitting should be at about the same angle of orientation as the Oil in fitting next to it.

With the line in place tighten the fittings down making sure the 120 degree fitting does not touch the frame.

Now that all of the components and Lines are in place and tightened down, install your New Oil Filter on to the Oil Filter Remote if you have not already done so.

We have also provided some Plastic corrugated shielding to slip over the Oil lines where they touch the frame bars. The 12 inch section is for the First Oil Line installed in step #14. And the 10 inch section is for the long oil line that goes between the 2 frame bars in front of the master cylinder. Use the zip ties provided to secure the plastic shielding in place.



## Ultimate Oil Kit Installation

**It is now time to Prime your oil system, Add more Oil, and check for any leaks.**

The easiest way to Prime your Oil System is to Unplug your fuel injector wiring harness then crank the slingshot over. Unplugging the wiring harness will prevent the engine from actually starting allowing the oil to circulate without causing any damage to your engine.

**To Crank the Engine with the Fuel Injector harness unplugged, Turn the Key on then Press and Hold the Start button Until the engine stops cranking. Wait a few seconds then Repeat this process THREE Times.**



Once you have primed The System Three times, Check the Oil Level on the dipstick. You will need to add around 2 quarts of oil but check your level and add oil as needed.

With the oil level topped off check for any leaks that may have come up during the priming cycles. If everything looks good plug the fuel injector wiring harness back in and start the engine.

Check for leaks with the engine running. If you notice anything shut the engine off and fix it before continuing.

If there are no leaks run the engine for a few minutes to warm it up then shut it down and check your Oil Level on the dipstick again. Add oil if needed.

**Congratulations! You have successfully installed your new Slingshot Ultimate Oil Kit!**



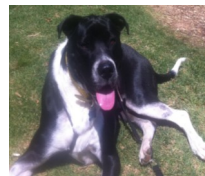
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### **Tech Support**

(864) 907-6004 (call or text)

Email: Tech@DDMWorks.com



This product is  
Jake the  
Supercharger  
Dog  
Approved!

