

**\*\*\* WARNING \*\*\***  
**NO OPEN FLAME!**  
**NO SMOKING!**  
**WHILE INSTALLING JET KIT**  
**INSTALL IN A WELL VENTILATED AREA**



**JAMES DEAN – MIKUNI 36mm JETTING KIT**

Thank you for purchasing the JDJetting jet kit. This kit has been designed for improved performance and throttle response by selectively choosing the jetting best suited for your Suzuki DRZ400S/SM.

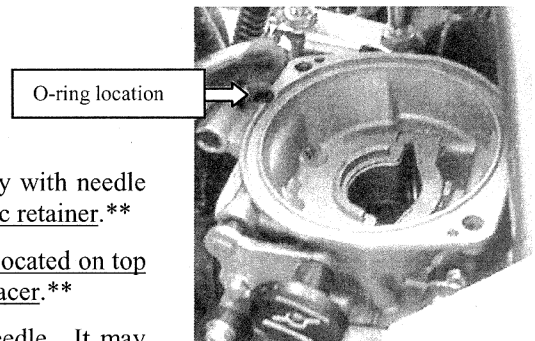
**JET KIT PARTS LIST**

Mikuni main jet – 145  
Mikuni main jet – 150  
Mikuni main jet – 155  
Mikuni main jet – 160  
Mikuni pilot jet – 25  
Needle clip  
Float bowl cap screws – 4 (3 short, 1 long)  
BLUE marked needle (Low altitude/Cool Temperature)  
RED marked needle (High altitude/High Temperature)

**INSTRUCTIONS – Suzuki DRZ400S/SM/E (Calif) & KLX400SR**

The following kit can be installed without removing the carburetor from the motorcycle.

1. Remove the seat and tank from the motorcycle. Be careful to turn off the fuel petcock and catch any spilled fuel from the fuel line, remove the vacuum line from the fuel petcock. NOTE: The “On” position stops fuel flow when the vacuum line is disconnected.
2. Remove the snorkel and cut a 3”x 3” hole in the top of the airbox. Heating the plastic with a hairdryer will soften the plastic so a utility knife can be used.
3. Loosen the hose clamps at the front and rear of the carburetor.
4. Remove the top of the carburetor. **\*\*NOTE: Do not drop the small o-ring located under the edge of the carburetor cap.**\* Remove the slide spring and the diaphragm with slide and needle.
5. Remove the plastic needle retainer from the slide by pulling upward firmly with needle nose pliers. **\*\*NOTE: Do not lose the small spring located below the plastic retainer.**\*\*
6. Remove the needle from the slide. **\*\*NOTE: Do not lose the thin washer located on top of the needle clip and the thicker washer located below the plastic needle spacer.**\*\*
7. Carefully push down on the plastic spacer to remove it from the stock needle. It may help to remove the clip first because the spacer fits tightly on the needle.
8. Install the plastic spacer below the needle clip on the BLUE marked needle with the clip in the 3<sup>rd</sup> from top groove (#3) unless otherwise **\*\*\*Noted** below. Place the thick metal washer below the plastic spacer. Place the thin metal washer above the needle clip.
9. Place the needle assembly with washers in the slide. Install the plastic needle retainer with spring into the slide using needle nose pliers. Press the retainer downward firmly to ensure that it is seated.
10. Install the needle and slide in the carburetor. Place the spring into the slide. Reinstall the carburetor top, making sure the small o-ring remains in place and the diaphragm fits into the groove around the perimeter.
11. Rotate the carburetor to access the drain screw. Loosen the drain screw being careful to catch the fuel into an appropriate container. Dispose of the fuel properly. Retighten the drain screw.



O-ring location



< Thin washer  
< Clip  
< Plastic spacer  
< Thick washer

Spacer & clip sequence

12. Remove the float bowl by removing the four Philips screws.

Replace the main jet with a #155 main from the kit for riding from Sea Level to 4000ft elevation.

Remove the stock pilot jet and install the #25 pilot jet from the kit.

Note: With a more free flowing exhaust or other engine modifications, increase the main jet to a #160 main from the kit.

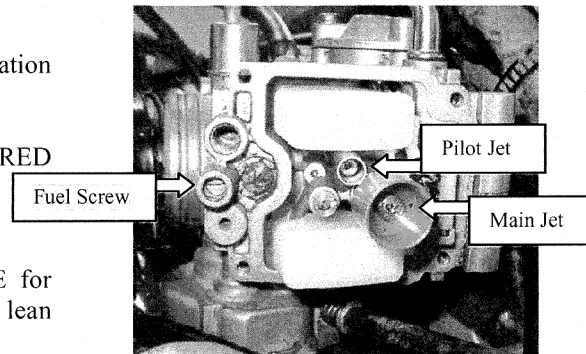
**\*\*\*Note – Altitude:**

Install the #150 main jet for riding mostly between 4000ft and 8000ft elevation and use the RED marked needle in the #3 clip position (3rd from the top).

Install the #145 main jet for riding above 8000ft elevation and use the RED marked needle in the 2nd from top clip position (#2).

**\*\*Note – Temperature:**

Use the RED marked needle in 3rd clip position instead of the BLUE for hot/humid conditions (example: above 75F). The RED needle will evenly lean the lower throttle range.



13. Re-install the float bowl. Replace the phillips head screws with the cap screws provided in the kit. The longer screw MUST be used for mounting the idle speed screw bracket.
14. CAUTION: DO NOT DRILL THE BRASS PLUG NEXT TO THE FUEL SCREW  
Locate the fuel mixture screw plug. The fuel mixture screw is directly behind this plug. You will need to use a 1/8-3/16" drill bit to remove the plug. Drill gently thru the washer to avoid damaging the fuel screw. Once the plug is removed, the fuel screw can be adjusted.  
  
This screw will richen the mixture when turned outward and lean the mixture when turned inward. Carefully turn the screw clockwise until lightly seated, and then turn it back out 2 1/2 turns. This screw may need to be adjusted to get a smooth idle and crisp response.
15. Return the carburetor to upright. Tighten the carburetor hose clamps.
16. Re-install the tank and seat. Check the throttle operation and cable routing before starting. Be sure to reconnect the fuel line and vacuum line to the fuel petcock!

The manufacturer and seller make no warranties that extend beyond the description of the products contained within the kit. This jetting kit is designed for closed course competition only.

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