

## KLR 650 CAM INSTRUCTIONS (CAMS FOR OFF ROAD USE ONLY)

The KLR 650 has a highly restricted motor, and to get full gains out of our cams the following will need to be done. First, our cam is not recommended to be used without an aftermarket free flowing exhaust system. Next, for the maximum power to be made with your new hot cam, the air box modification shown below will need to be done along with adjusting the jets to our jetting specification (jetting specification is for use with a free flowing exhaust system and air box modification only).

Step 1



Remove Bolts circled in picture to remove side cover (repeat this step on other side of bike).

Step 2



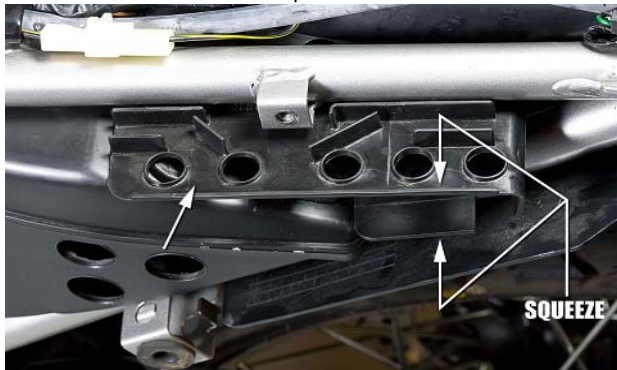
Remove bolt circled in picture to remove seat (repeat this step on other side of bike). Also ignore holes in air box as these are described in steps 7, 8, 9.

Step 3



This is bike with seat removed.

Step 4



If looking at bike from behind the left side of the bike will have a plate with holes in it as shown in picture. This plate needs to be removed, to remove plate squeeze where shown and pull to remove.

Step 5



After plastic plate is removed you will see a rubber boot, this boot will also need to be removed. To remove boot, use a straight blade (flat head) screwdriver and pry boot out of air box (there is a groove holding boot in place so the boot will not just pop out).

Step 6



When boot is removed air box will look like this.

**WARNING: AS WITH ANY SHOP OPERATION, BE SURE TO WEAR PROPER SAFETY EQUIPMENT. WEAR SAFETY GLASSES, AND UNDERSTAND/FOLLOW ALL SAFETY INFORMATION REGARDING THE PROPER USE OF YOUR EQUIPMENT.**

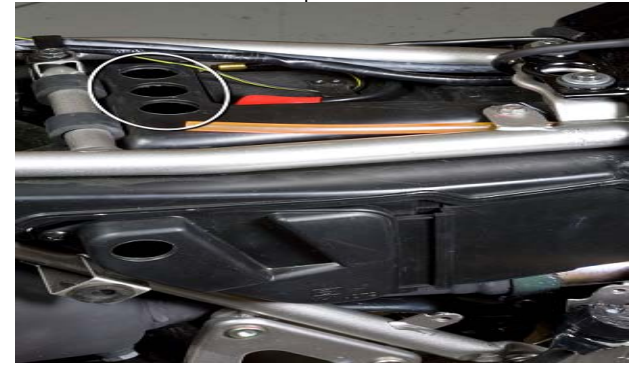
Step 7



Step 8



Step 9



The last step, is to drill some 1 inch holes that are circled in all 3 pictures into the air box. Placement of these holes is not critical they just need to be close to the same area. First picture is looking at bike from the rear and left side of bike.

This second picture is looking at the bike from the rear and right side of bike.

Finally, this is the top of the air box.

Step 10

This step is for jetting of the bike only if the air box has been modified according to our instructions and free flowing exhaust is used. Jetting instructions are as follows:

Main Jet: 165

Pilot: 55

Fuel screw = 1.5 turns this is equal to stock

Needle = Add a 2mm spacer to raise needle

**(This is a base line setting. minor adjustments may be needed)**

**(Caution jetting a carb should only be done by a experienced mechanic)**

Step 11

After these mods are done, reassemble bike using steps 3, 2, and 1 in that order. But instead of removing the bolts, thread the bolts back into their holes.

Hot cams does not feel re-installation of the decompressor mechanism in the exhaust cam is necessary, but if for some reason you want to re-install it, we have provided the directions below.

Step 1



This is what your exhaust cam will look like (notice the two scribed lines on the exhaust cam). The plug that comes pressed into the center of the cam needs to be removed.

Step 2



To remove the plug, we found it easy enough to just use a 1/4" ratchet extension. Tap on extension with a hammer and the plug will pop right out.

Step 3



Here is the plug removed from the cam. This same process will need to be done on your OEM exhaust cam to remove the decompressor mechanism (except a press will be needed to remove this mechanism and not a hammer).

Step 4



Set the pressed out mechanism on top of your hot cam. Next, you need to align the decompressor pin with the scribed lines on the cam (visually center up this pin between the lines).

Step 5



With the mechanism in the same position as the last step, remove spring and open the weights so it looks like the above picture. With the weights open, a small surface between the weights appears. This small surface is where you can use a small socket to fully press in the mechanism.

Step 6



This is what the finished result should look like. When the spring is reinstalled, the decompressor pin should be visually close to centering up between the two scribed lines on the cam.

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