

# HTP4-1-11 KLR650 SUBFRAME BOLT UPGRADE



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Before you begin, place the bike on a hard level surface where you have room to work. Lay out the parts included in this kit and compare to the parts list on page 3 of these instructions. If any parts or hardware are

**Note:** A Model (1989-2007) and E Model (2008+) subframe bolt installation procedures differ. In 2008 Kawasaki introduced a 10mm upper bolt to address issues in earlier model years. We believe this upgrade from Kawasaki is sufficient to prevent further problems with the top bolts however upgrading the lower subframe bolts is still recommended. Four bolts are included in the kit but only the lower two bolts will be necessary for the installation on the E series.

The upper subframe bolts may be found by removing the seat, side panels and fuel tank. Subframe bolts are located just above the swingarm and near the top of the air box on either side of the motorcycle.

## Step 1

1989-2007 only: Begin the installation by removing the top subframe bolt (Fig. 1) on the left (chain) side of the motorcycle with a 12mm socket. Before inserting the new bolts, add a drop of Blue Loctite to the threads at the end of the bolt. You may thread the new 12.9 bolt into the hole and tighten the bolt until snug using an 6mm Allen Wrench. Move to the right (brake) side of the motorcycle and repeat the procedure by removing the original bolt and replacing it with the upgraded 12.9 bolt, adding Blue Loctite prior to assembly.

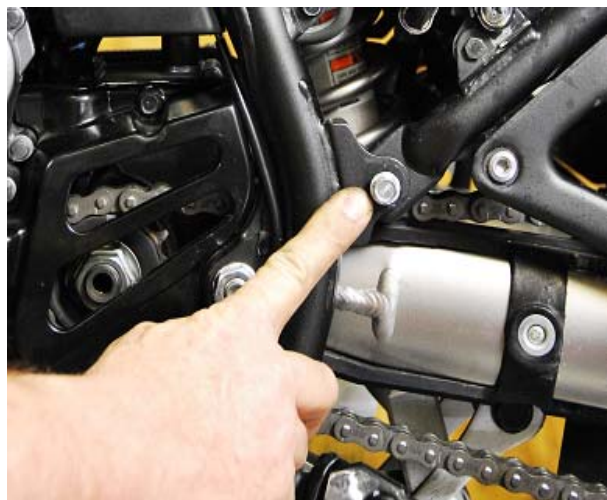
## Step 2

All years: Place an M8 washer on each of the new 8mm 12.9 bolts. Remove the lower factory subframe bolt using a 12mm socket on the left (brake) side of the motorcycle (Fig. 2). Before inserting the new bolts, add a drop of Blue Loctite to the threads at the end of the bolt. You may thread the new 12.9 bolt into the hole and tighten the bolt until snug using an 6mm Allen Wrench. Move to the right (brake) side of the motorcycle and repeat the procedure by removing the original bolt and replacing it with the upgraded 12.9 bolt.

**Fig 1**



**Fig 2**



### **Step 3**

Tighten all newly installed 12.9 bolts. Use a torque wrench to tighten all subframe attachment bolts to 18ft/lbs. Once all bolts have been tightened, replace fuel tank, seat and side panels. Check to make sure the drive chain does not rub on the threads on the lower left subframe bolt.

\*Note: Only remove one bolt at a time from the subframe as removing more than one may cause the subframe to sag.



### **Hardware List:**

Bolt Kit

### **Recommended Tools:**

6mm Allen Wrench  
12mm Socket  
Torque Wrench  
Blue Loctite

### **Bolt List:**

- 4 M8x30 12.9 Hardened Bolts
- 2 M8 Flat Washers



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5/4/11  
Rev. 2.1