

# X-Head\_LC

# Installation Guide

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- Parts:** Left & Right Guards  
 Left & Right Rubber Liners  
 2-T25 x 20 mm Torx screws  
 (re-use 2 existing Torx screws)  
 2- T50 Long Torx bolts

- Tools** T25 Torx screw driver  
**Required:** T50 Torx socket wrench  
 Small Torque wrench

**A torque wrench is essential!**

Most installation problems involve oil leaks or bolt breakage because of over tightening. Use a **small torque wrench** set in Newton Meters or Inch/Pounds. Or, take the bike to a qualified BMW technician for installation.

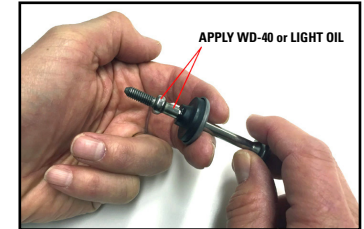
- \* **BEFORE BEGINNING WORK, READ THESE INSTRUCTIONS FROM START TO FINISH.**
- \* **PLACE BIKE ON CENTER STAND ON LEVEL GROUND.**
- \* **ALLOW ENGINE TO COOL BEFORE STARTING INSTALLATION**
- \* **AFTER THE FIRST RIDE, RE-CHECK FASTENER TIGHTNESS.**



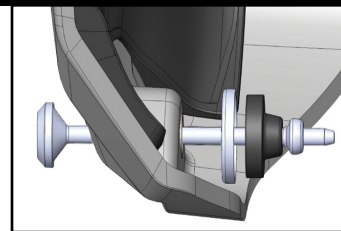
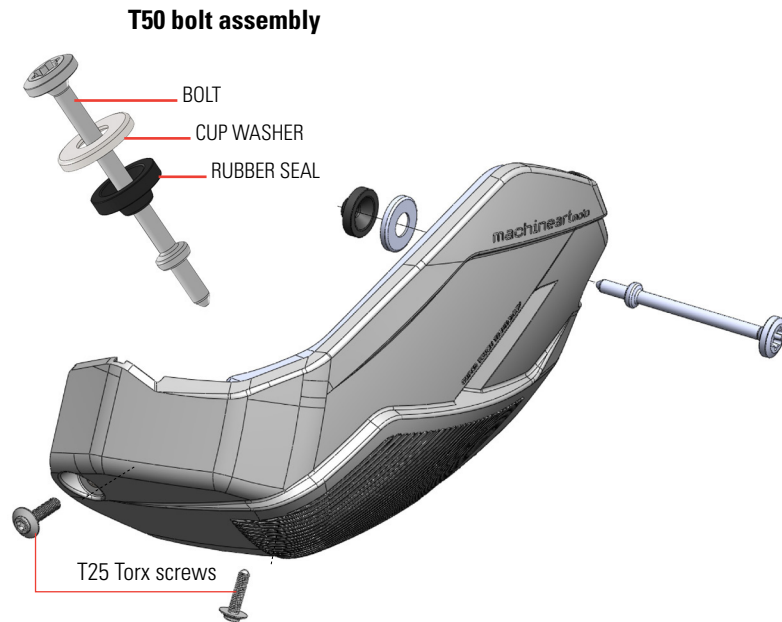
**1** Remove one T25 Torx screw retaining the spark plug cover. *This screw will be re-used.*  
 Remove spark plug cover.



**2** Unscrew rear valve cover bolt with a T50 Torx socket wrench. Pull out the bolt, cup washer, & rubber seal. *You may feel resistance. Washer & rubber seal will be re-used.*



**3** Apply light oil to the shaft of the bolt just removed. Placing two fingers behind the cup washer, gently pull off the rubber seal.



**4** Insert NEW T50 Long Bolt through hole in X-Head. Place cup washer over the Bolt with flat side against inside of X-Head. Apply light oil over the ball & shaft & gently push rubber seal over the ball as shown.



**5** Place X-Head into position. With your fingers, start turning the Bolt until it engages the thread. *This may take a few tries.* Keep it finger tight, for now.



**6** Fasten the front of X-Head with the T25 Torx screw previously removed. *Do not yet tighten!*



**7** Fasten the bottom of X-Head with the new T25 Torx screw provided. *It is difficult to see the thread on the underside of the engine, so be careful not to cross-thread the screw.*



**8** Tighten the T50 Bolt with a T50 socket and a **small torque wrench**: Torque: **10 Nm; Newton/meters or 88 in/lb. that's inch/pounds.** *A little less is better than too much!* **DO NOT OVER TIGHTEN!**

**NOTE:**  
 A light film of oil may appear at the bottom of the valve cover after removing the T50 Bolt. Carefully wipe it off before re-installing the bolt and finishing the installation.

**Care Instructions:**  
 Dirt will accumulate around X-Heads during use. Periodically remove them to clean the engine, typically at service intervals. Any rubber residue can be cleaned with fine polishing compound.

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