

FITTING INSTRUCTIONS

REMOVAL OF 48V MOTOR-GENERATOR TENSIONER FOR UPPER CONTROL ARM INSTALLATION TO SUIT TOYOTA HILUX WITH V-ACTIVE 48V SYSTEM

IMPORTANT NOTE BEFORE INSTALLATION

Recommend this task to be performed by suitably qualified mechanic.

1. In order to remove the through-bolt for the upper control arm, the tensioner for the 48v Motor-Generator must be removed.
2. In the picture shown below there are 4 points to put a 17mm/ socket or spanner on to be able to manipulate the spring loaded tensioner arms.
3. In order to gain much better access to these tensioner arms, the intercooler pipe is recommended to be removed and the vacuum line attached to the cooler piping removed from its spot and set aside.
4. With the cooler pipe set aside, starting with the tensioner closest to the engine side (Upper), attach breaker bar/ long handled 17mm spanner and turn clockwise. There is a keyway on the tensioner that is able to be pinned when the tensioner is fully extended and tension is removed. Use a strong piece of wire/ screwdriver/ timing belt tensioner pin to be able to pin the tensioner when the full extension of this tensioner is achieved.
5. When this tensioner arm is pinned in the keyway, remove 17mm socket or spanner and place on the lower tensioner arm. Turn the socket anti clockwise. There is also a small keyway on this tensioner that can be pinned with a strong piece of wire/ screwdriver/ timing belt tensioner pin. Pin this arm as well.
6. Upon pinning of both sides of the tensioner, the drive belt will become accessible and easy to remove. Remove the drive belt.
7. Remove the 3 tensioning bolts on the tensioner that hold the assembly.
8. Upon removal of these bolts, the tensioner assembly can be removed and swung out of the way of the through-bolt to allow removal.
9. Upon removal of through-bolt and replacement of upper control arms X2 perform the above removal process in reverse and remove the tensioner locking pins making sure that the drive belt is correctly positioned.

