

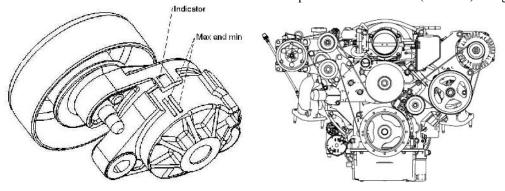
K10143 Air Conditioner Bracket Kit for LSx Corvette engines

Kit contents:

- Front and rear compressor attachment plates.
- Water pump brace plate.
- Aluminum spacer tubes and idler pulley mount
- Idler pulley, Gates 38012 or equivalent.
- All fasteners required to mount bracket to engine, and compressor to bracket

In addition, the following parts are required:

- LS1 main belt tensioner, Gates part number38194 or equivalent. If your engine came with an LS2 GM tensioner it can be used, but those sometimes cause a belt rubbing issue with the flanged 38012 pulley.
- Air conditioner compressor, Sanden SD7 "709" style, current part number is 4665. This is the most popular configuration used by most all aftermarket AC makers has a 7-groove serpentine pulley and 3/4" and 7/8" Oring ports pointing upward. We offer this pump on the Accessories page of our web site: http://kwikperf.com/accessories.html.
- If using a Kwik Performance alternator bracket, use the belt suggested in the alternator bracket instructions. If using the factory Corvette alternator bracket, use a six-rib belt, length about 101", so that the tensioner indicator arrow is between the max and min marks. Gates part number K061005 (101 1/8") is suggested.

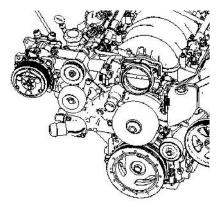


Pre-installation

Before installing the brackets, the tensioner must be modified. Remove the six-groove pulley, which will be used as the idler pulley. The smooth idler pulley listed above will be used on the tensioner, and should be installed after all bolts are installed to make the 90mm bolts easier to install. Leave the nut holding the 6-groove pulley loose until after the 38012 pulley is secured to prevent flange interference. Push the tensioner arm down if necessary to tighten the 6-groove pulley nut.

Notes

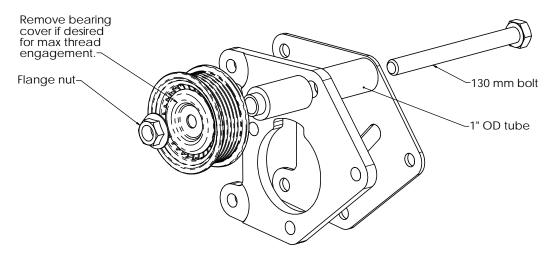
- Install the 130mm idler bolt from the rear, because the flange nut must be placed against the idler pulley. This
 must be done before bolting any brackets in place, or the bolt will not clear the valve cover. The bearing cover
 can be used or discarded.
- Shim plate under tensioner lower boss counteracts play in the tensioner pivot.
- Some water pumps require a 3/8" washer to be installed between the L-plate and main plate.
- Leave all bolts loose until all parts are installed. Lift up on the front of the compressor when tightening the bolts. Tighten first the 2 bolts that screw into the head to square up the plates, then tighten the 2 bolts that screw into the water pump. After that, the bolts may be tightened in any order.
- Torque all 10mm bolts to 37 ft-lbs (50 N-m), and torque the 12mm bolt to 50 ft-lbs (68 N-m).
- The belt is installed on the forward 6 grooves of the 7-groove compressor pulley.
- Install the 16mm washer on the tensioner under the smooth 38012 pulley for alignment.

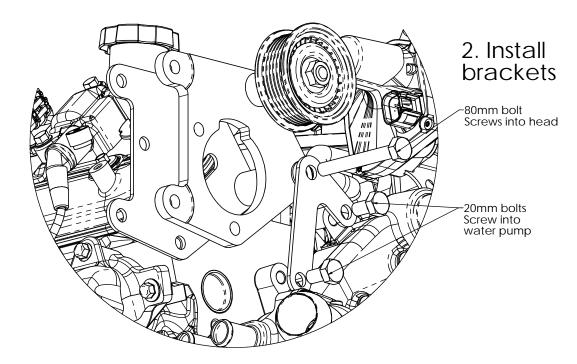


K10143 A/C Bracket for LS1 LSx Corvette Installation Instructions



1. Assemble idler pulley.





3. Install tensioner 90mm bolt Flange nut 90mm bolt Screws into head Install shim between tensioner and main plate Copyright 2008-2012 Kwik Performance, Inc. All rights reserved



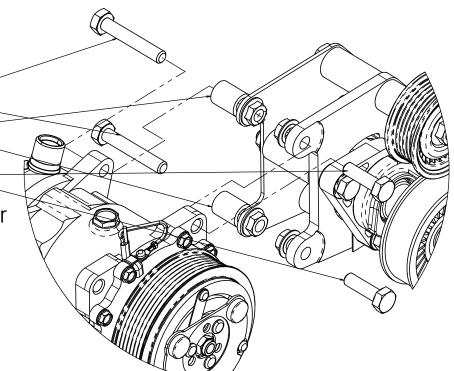
60mm bolts and flange nuts

3/4" OD tubes-

35mm bolts and flange nuts -

5. See page 1 for bolt tightening sequence.

Tighten 10mm fasteners to 37 ft-lbs (50 N-m), tighten 12mm fasteners to 50 ft-lbs (68 N-m).

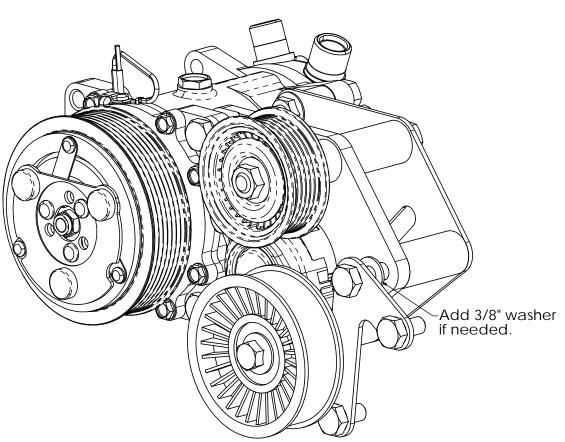


Adjustment Instructions



A/C Compresor bracket for LSx engines

1. Due to variations in water pumps, a washer may be needed for proper alignment of the water pump brace.



- 2. Leave all fasteners slightly loose until all parts are in place. Then lift up on the compressor pulley while tightening down the two bolts that screw into the cylinder head. This squares up the bracket to the head. Then tighten the water pump bolts, then the rest of the bolts.
- 3. Due to variations in tensioners, a washer may be needed for proper alignment of tensioner pulley 38001 or 38006. The back of the serpentine belt should run less than 1/8" from the back of the 38001 or 38006 pulley. Washer is always used with 38012 pulley to prevent interference between the pulley and the tensioner arm.

