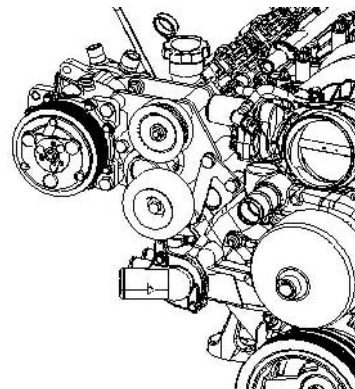


## ***K10156 Air Conditioner Bracket Kit for LSx F-body and GTO engines***

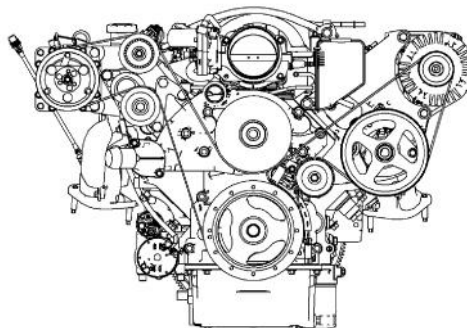
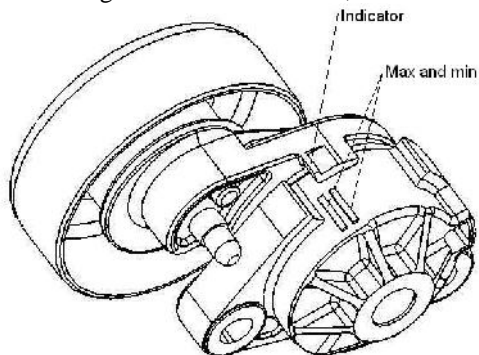
### **Kit contents:**

- 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 needed to mount the bracket to the engine and the compressor to the bracket



### **In addition, the following parts are required:**

- LS1 main belt tensioner, GM part number 12560344 or equivalent. Use your existing tensioner or request the tensioner for a 2002 Camaro Z28.
- Air conditioner compressor, Sanden "508" or 709" style. The most popular configuration used by most all aftermarket AC makers is the "6629" compressor.
- If using a Kwik Performance alternator bracket, use the belt suggested in the alternator bracket instructions. If using the factory Camaro alternator bracket, use a six-rib belt, length about 101", so that the tensioner indicator arrow is between the max and min marks. Gates number K061005 (101 1/8") is suggested for F-body engines. For GTO engines with GM bracket, Gates number K061000 (100 5/8") 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, but it can be installed after the tensioner is bolted in place to make the 120mm 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 160mm 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.
- 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.**

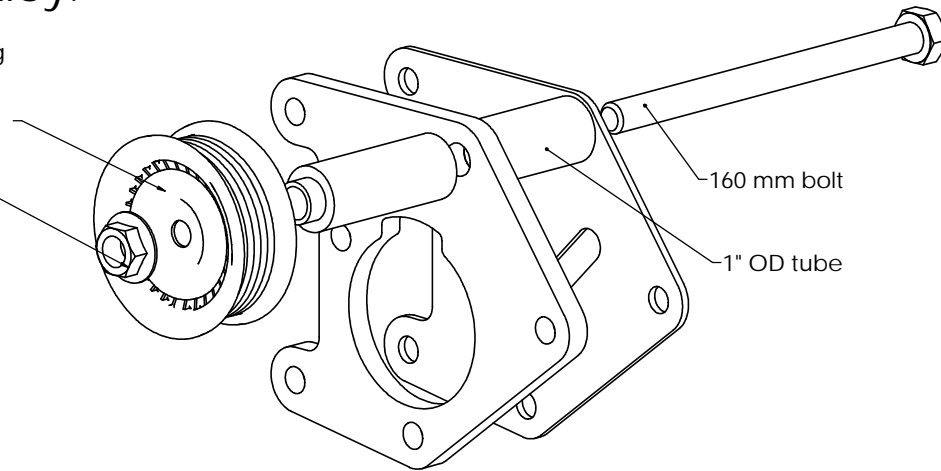
# K10156 A/C Bracket for LS1 Camaro Installation Instructions

**KWiK**  
Performance, Inc.  
www.kwikperf.com

## 1. Assemble idler pulley.

Remove bearing  
cover if desired  
for max thread  
engagement.

Flange nut



160 mm bolt

1" OD tube

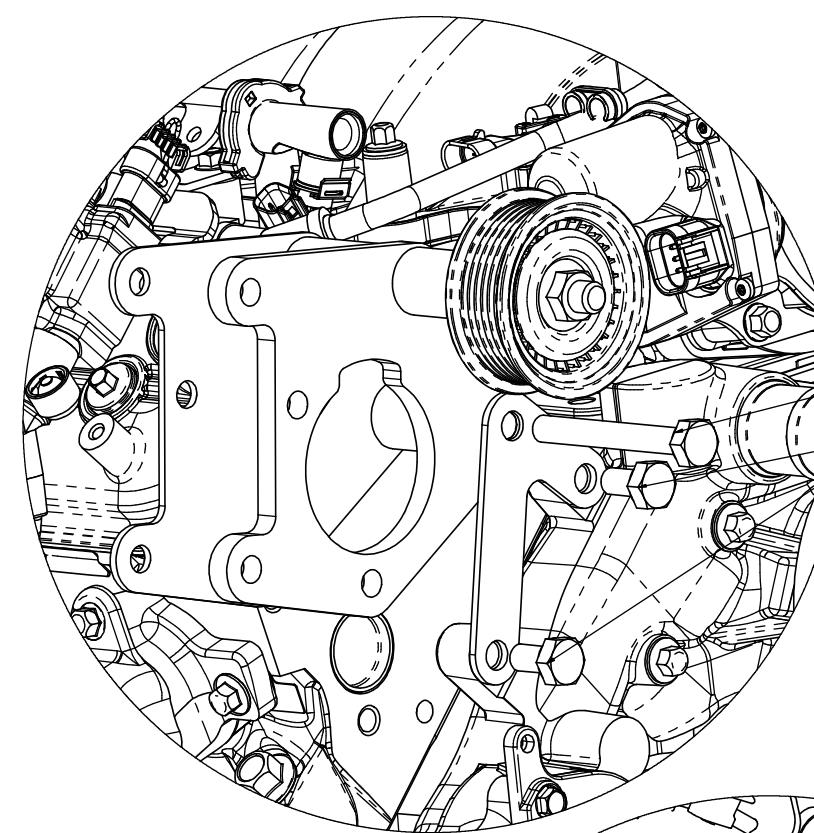
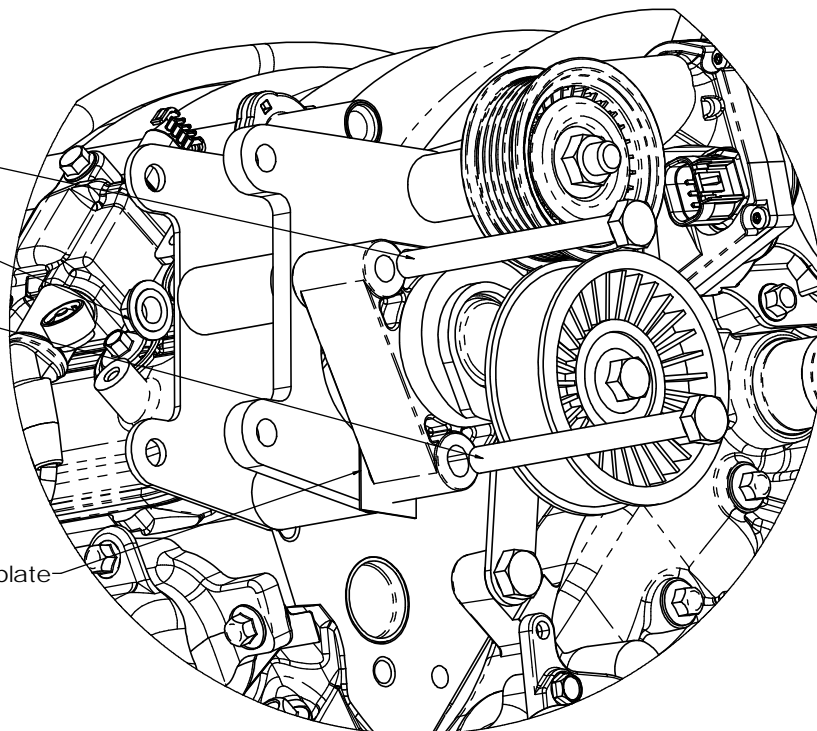
## 3. Install tensioner

120mm bolt

Flange nut

120mm bolt  
Screws into head

Install shim between  
tensioner and main plate



## 2. Install brackets

80mm bolt  
Screws into head

20mm bolts  
Screw into  
water pump

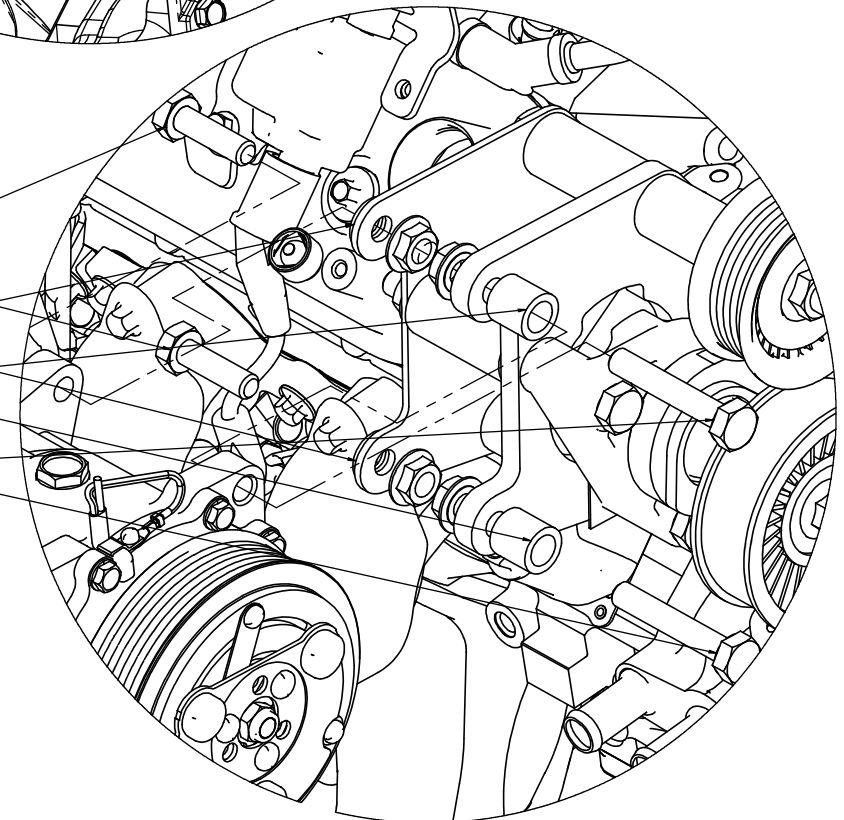
## 4. Install compressor

35mm bolts and  
flange nuts

Washers (omit  
if not needed)

3/4" OD tubes

60mm bolts and  
flange nuts



## 5. See page 1 for bolt tightening sequence.

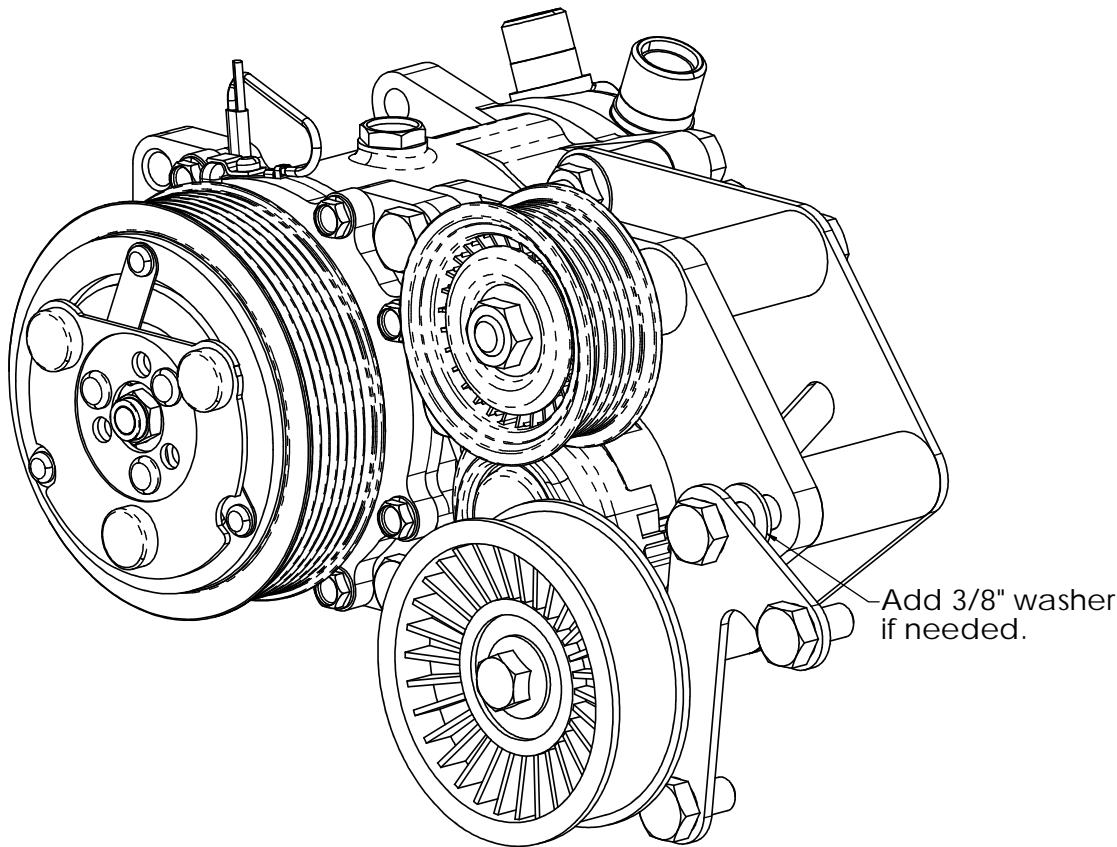
Tighten 10mm  
fasteners to 37 ft-lbs  
(50 N-m), tighten 12mm  
fasteners to 50 ft-lbs  
(68 N-m).

## Adjustment Instructions

**KWiK**  
Performance, Inc.  
www.kwikperf.com

## A/C Compressor 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.

