

40-7306R

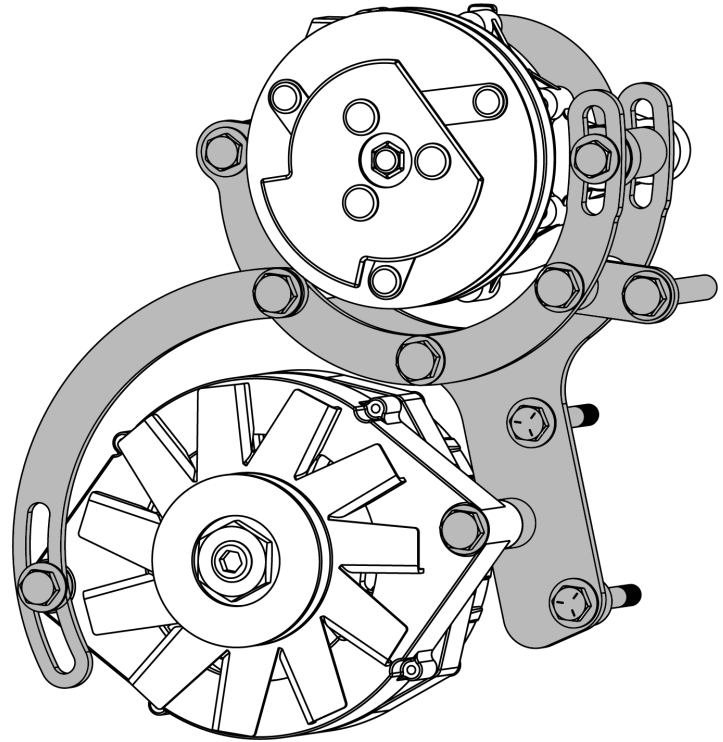
Compressor Bracket

1955-57 Ford Thunderbird
w/ Alternator



1201 Forum Way South, Fort Worth TX 76140
817-531-2665 or FAX 817-531-3257

The 40-7306R compressor bracket is designed to mount a #21-7170 compressor (or equivalent) and GM alternator on the passenger side of a 1955-57 Ford Thunderbird with a V-8 Ford "Y" Block engine.



Important Information, Read Before Beginning Installation

- 1) Belt used for this installation is a Gates XL 9465 and 9451. A different belt may be required for your individual application depending upon pulley diameters.
- 2) Heater Hose fitting will need to be rotated to 12:00 position as shown to clear the compressor.
- 3) Due to differences in year model and castings washers may be required to adjust spacing.
- 4) The bolts inserted into timing cover, water pump and engine block will require thread sealer.
- 5) If brackets are painted a ground path must be maintained by masking or removing paint on brackets or by adding ground wires to compressor and alternator bodies.
- 6) This bracket is designed to be used with pre-drilled 7B10 Series (or equivalent) compressor and a 100 Amp GM alternator.
- 7) Brackets that have been installed, painted, altered or modified may not be returned.

Prepare Vehicle for Compressor Bracket Installation

- 1) Disconnect Battery.
- 2) Drain coolant, remove upper radiator hose and heater hose.
- 3) Remove generator belt. If equipped with power steering loosen belt as required to remove generator belt.
- 4) Remove fan and waterpump pulley
- 5) Remove "Z" bracket from water pump and generator bracket. (Photo 1)
- 5) Disconnect wire harness from generator.
- 6) Remove generator tension adjustment arm from engine. (Photo 1)
- 7) Remove the 2 bolts from OEM generator bracket and remove generator and bracket assembly from engine.

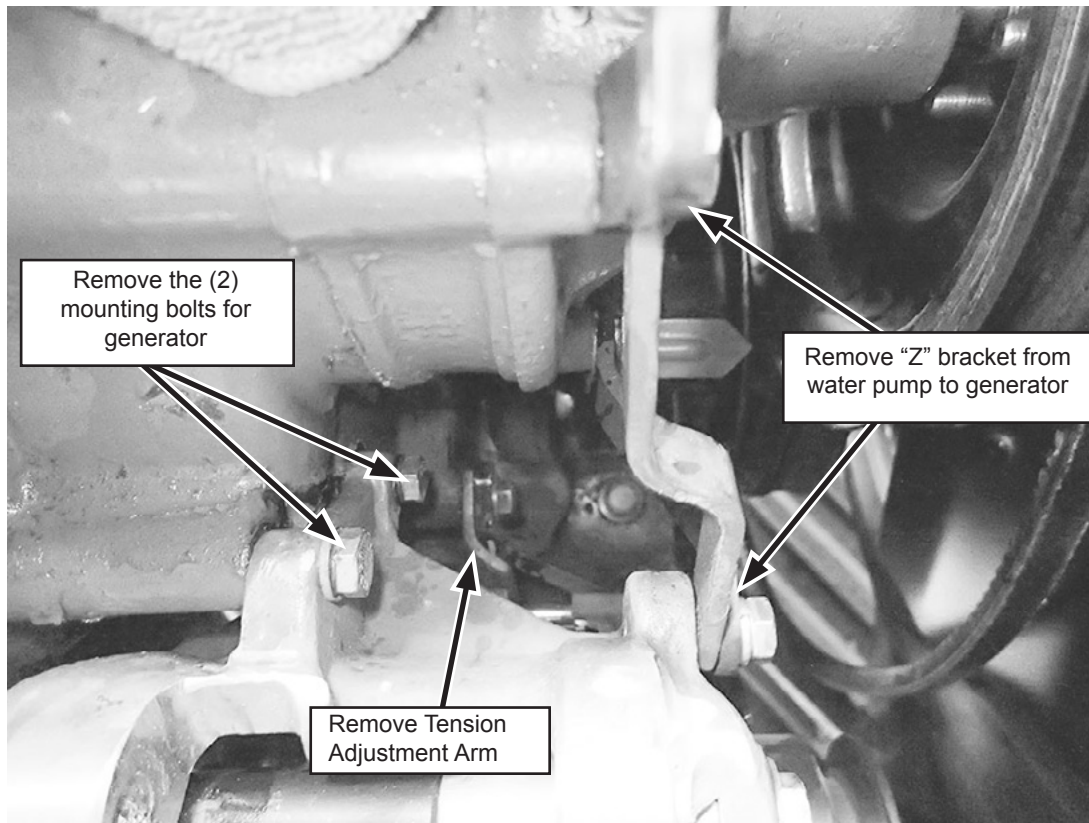


PHOTO #1

IMPORTANT INSTALLATION NOTE: If brackets are painted before installation a ground path must be maintained by either masking or removing paint on brackets or by adding ground wires to compressor and alternator for them to operate correctly.

Compressor and Bracket Installation

1) Install (2) 5/16-18 x 3-1/2 hex bolts through (2) 1/4" flat washers, rear bracket and (2) .75 OD x .406 ID x .563 length spacer. (Photo 2)

2) Locate the holes shown in Photo 3.

3) Install Rear Bracket using thread sealer on the bolts. These are Wet Jacket Holes, Thread sealer must be used on mounting bolts when installing Rear Bracket. (Photo 4)

4) Replace OEM Bolt. (Photo 4)

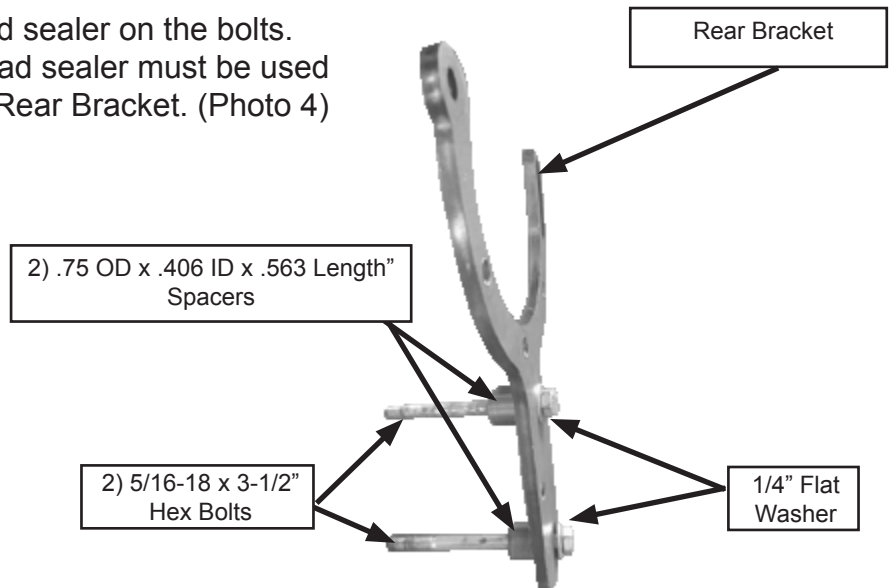


PHOTO #2

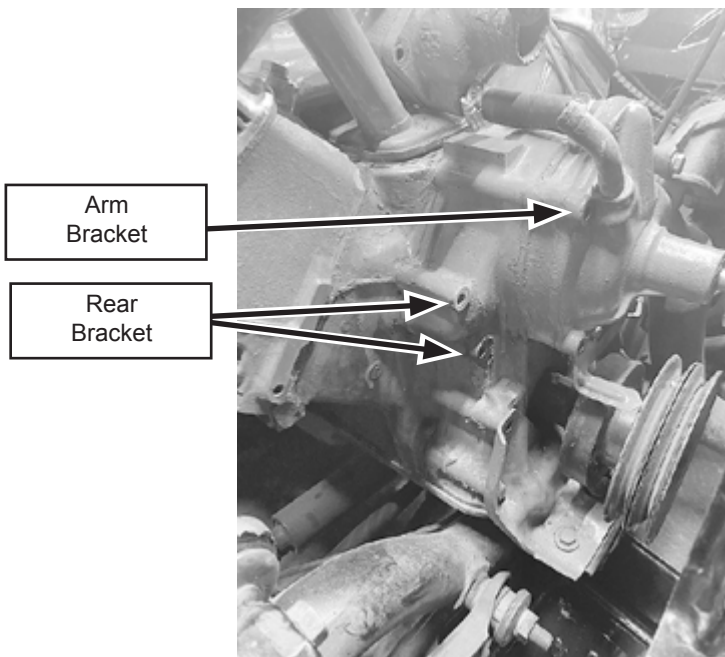


PHOTO #3

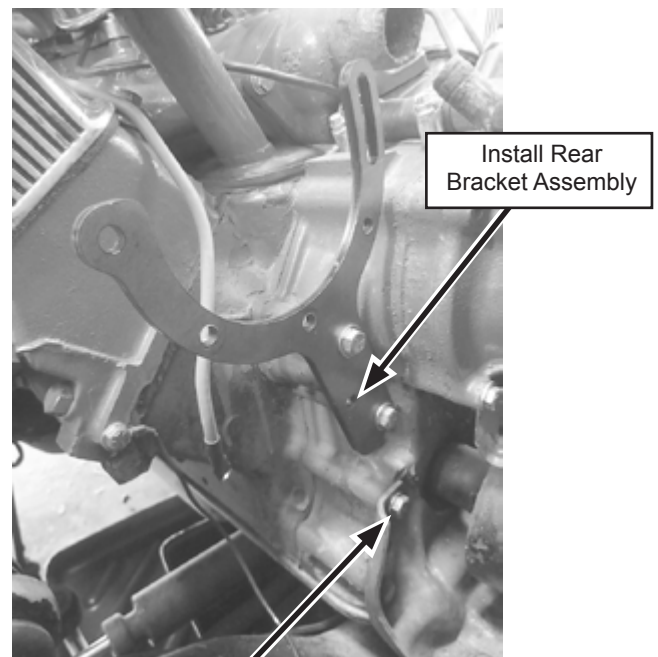
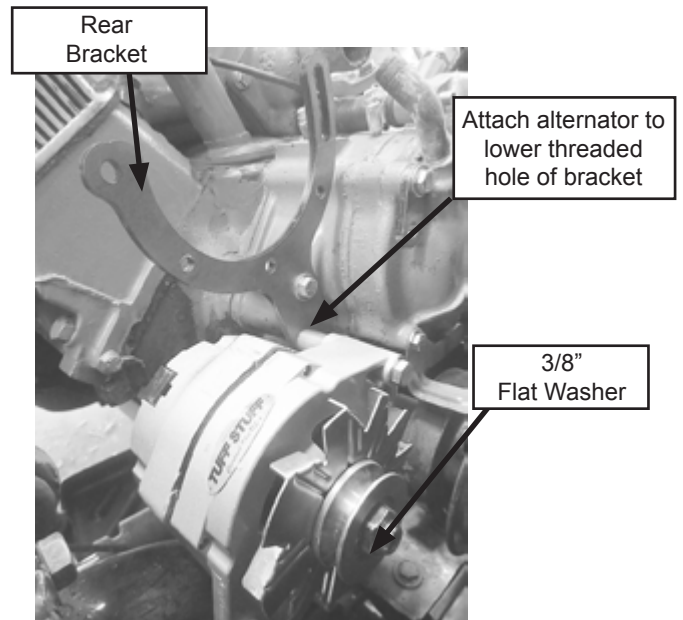
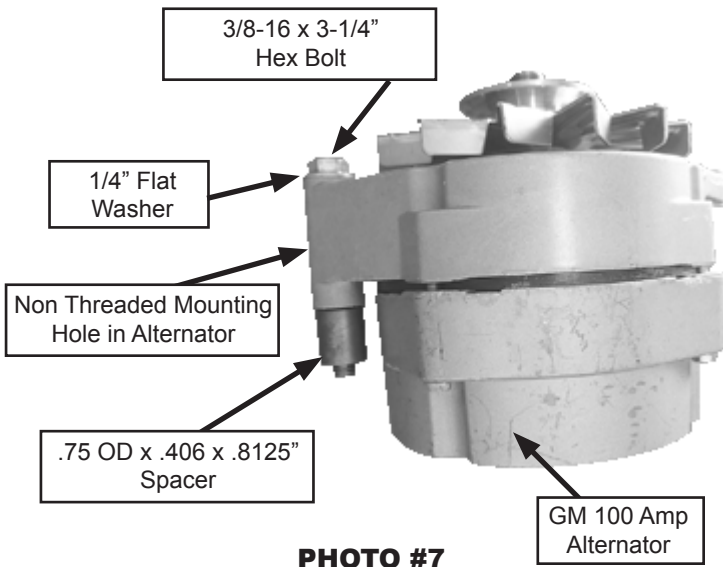
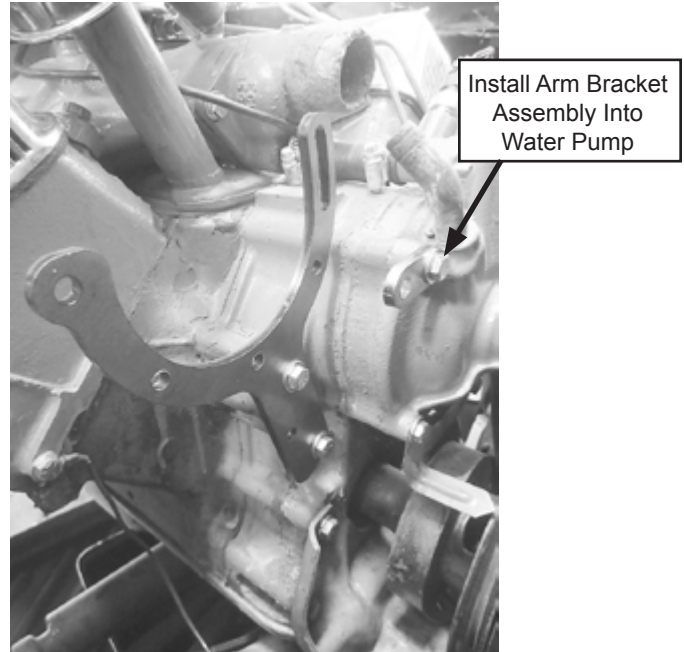
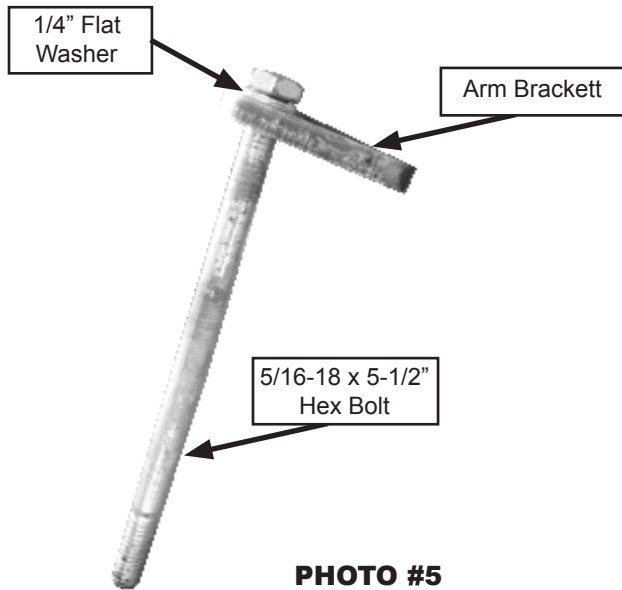


PHOTO #4

5) Insert 5/16"-18 x 5-1/2" hex bolt through 1/4" flat washer and arm bracket (photo 5) and install into waterpump. (Photo 6) *Note: Leave bolt finger tight*

6) Insert 3/8-16 x 3-1/4" hex bolt through 5/16" flat washer, non threaded hole in alternator and .75 OD x .406 ID x .8125 spacer. (Photo 7)

7) Install alternator into the lowest threaded hole of rear bracket. (Photo 8) *Note: leave bolt finger tight*



8) Insert 3/8-16 x 3-1/4" hex bolt with 5/16" flat washer through front bracket, .75" OD x .406" ID x .563" length spacer, arm bracket (Installed in step 5), .75" OD x .406" ID x 1.75" length spacer and finally into the threaded hole in the rear bracket. (Photo 9)

9) Insert 3/8-16 x 3-1/4" hex bolt with 5/16" flat washer through front bracket, .75" OD x .406" ID x 2.625" length spacer into the threaded hole in the rear bracket. (Photo 10)

10) Insert 3/8-16 x 3-1/2" hex bolt with 5/16" washer through tensioner arm, front bracket, .75" OD x .406" ID x 2.625" length spacer and into threaded hole in rear bracket. (Photo 11) *Note leave finger tight*.

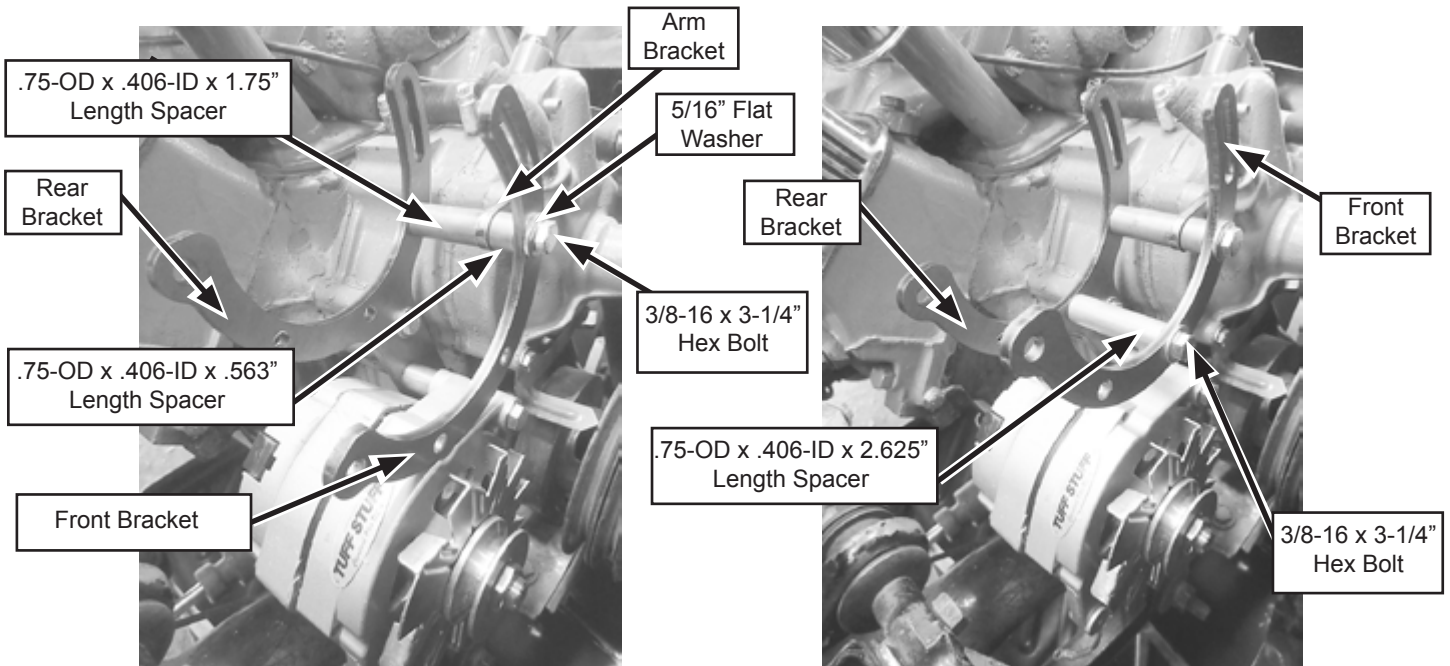


PHOTO #9

PHOTO #10

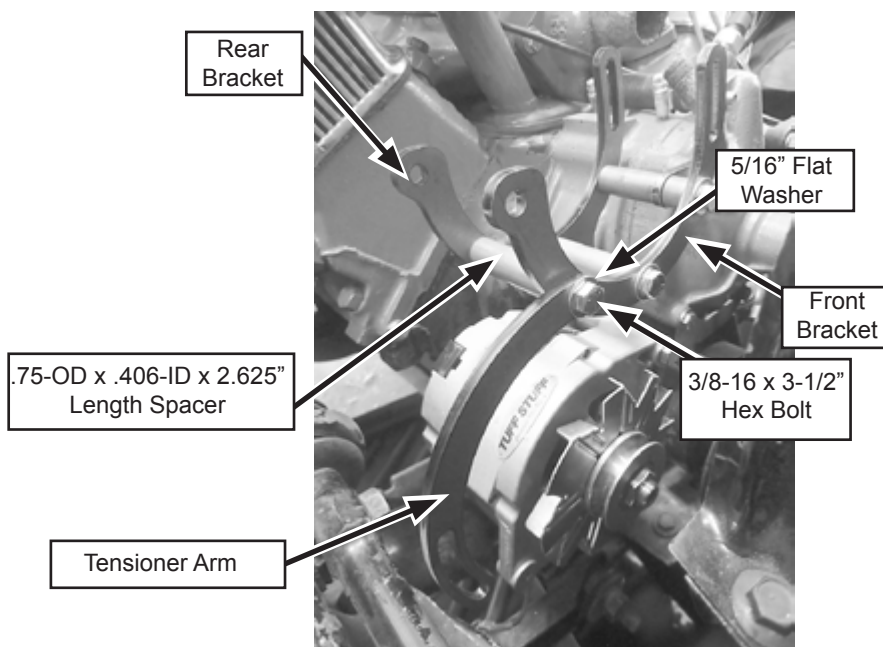


PHOTO #11

11) Insert 5/16-18 x 1" Hex Bolt through slot in tensioner arm then attach to threaded mounting tab on alternator. (Photo 12)

12) Enlarge the holes in the front mounting tabs of the compressor with a 11/32" drill bit. (Photo 13)

13) Place the compressor inside the cradle with the front mounting tabs behind the front bracket. (Photo 14)

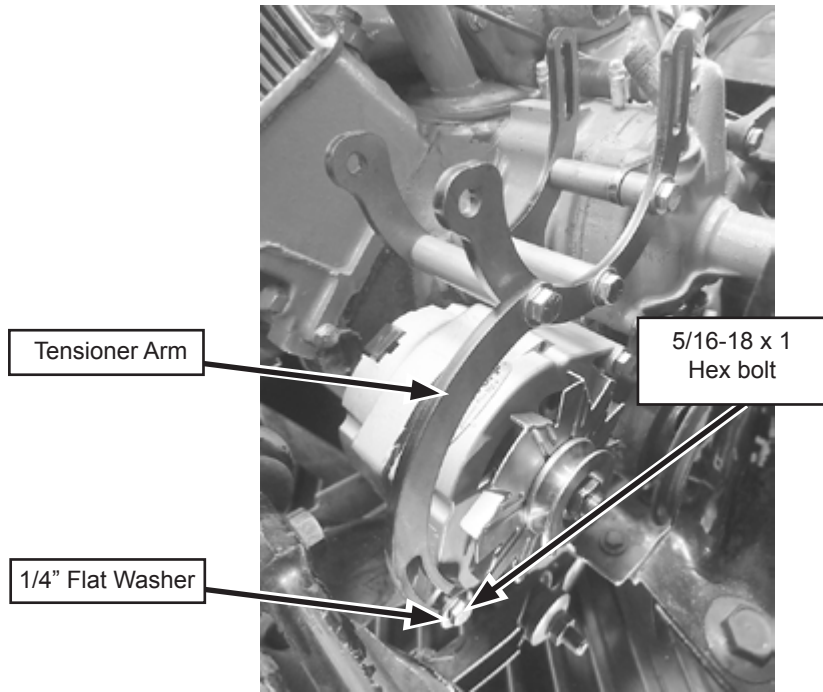


PHOTO #12

Note: Installing the 7B10 series compressor with this bracket will require using a 11/32 drill bit to enlarge the holes in the front 2 mounting tabs.

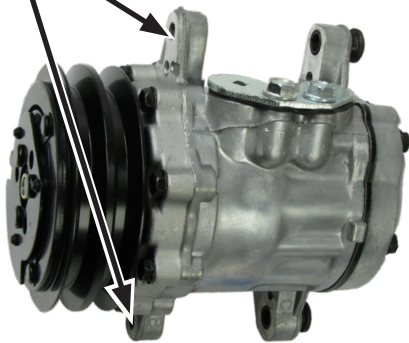


PHOTO #13

Place compressor inside cradle with front mounting tabs behind front bracket

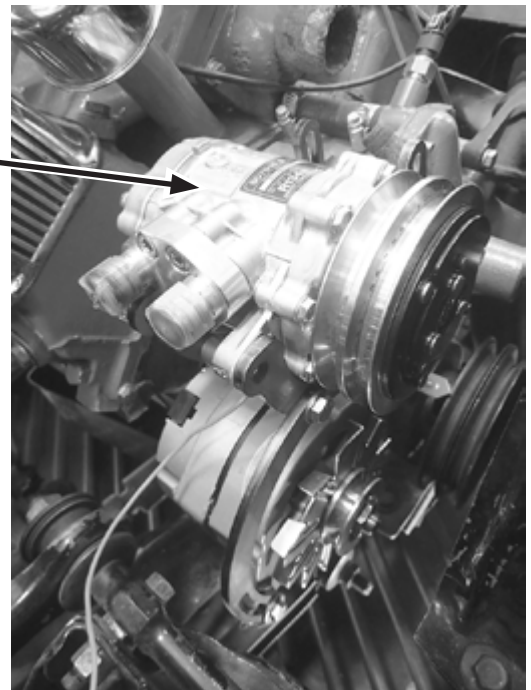


PHOTO #14

14) On Passenger side of compressor Insert a 5/16-18 x 4-1/2" hex bolt with 1/4" flat washer through the front bracket, front compressor mounting tab, .75 OD x .406 ID x 2" spacer, rear compressor mounting tab, rear bracket 1/4" flat washer and secure with 5/16-18 nylock nut. Tighten until nut makes contact with bushing then back off a little to make remainder of installation easier. (Photo 15)

15) Repeat step 14 for driver side of compressor. (Photo 15)

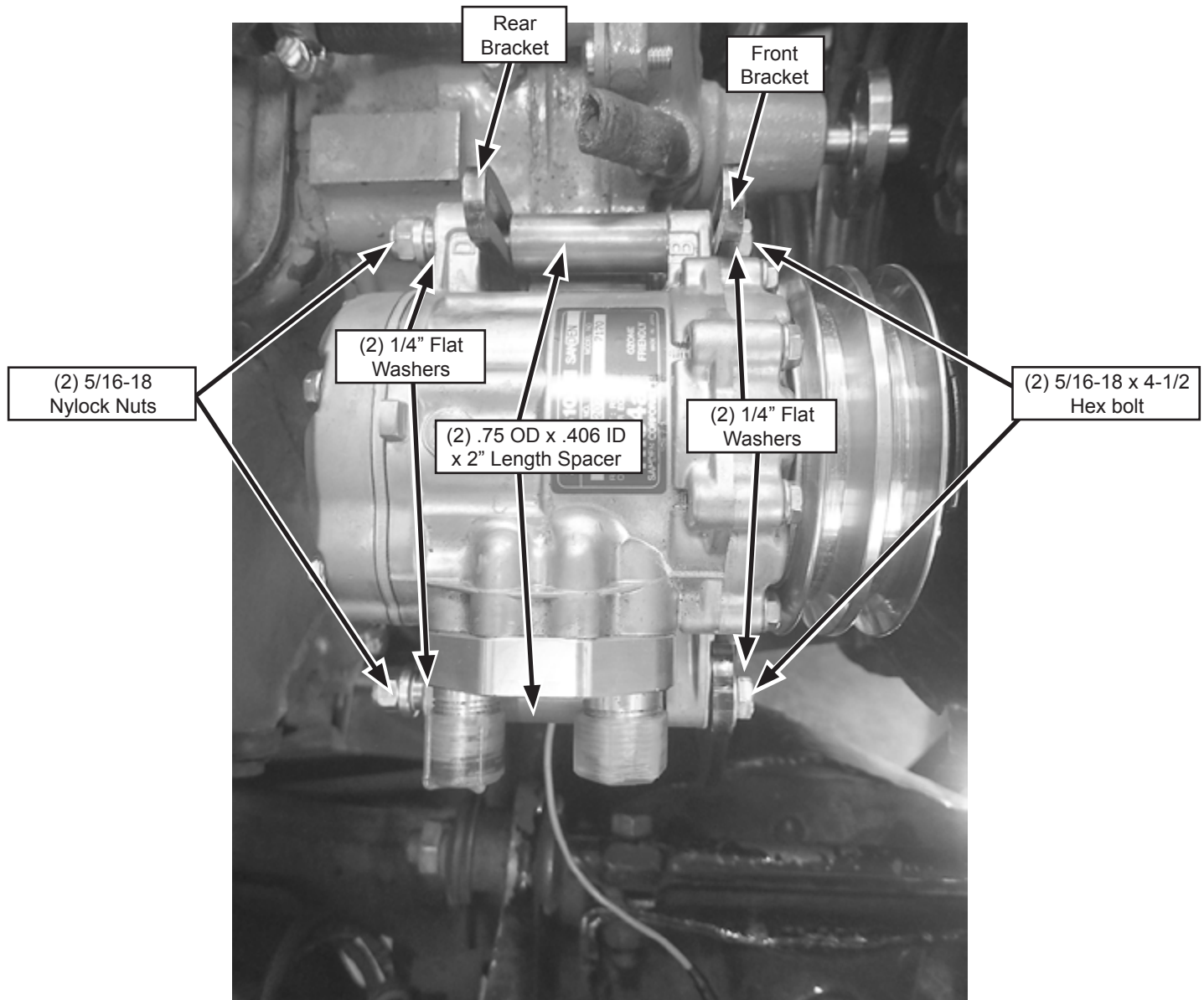


PHOTO #15

16) Place alternator belt (Gates XL 9245) on first (inner) groove of compressor and crankshaft. (See Belt Routing Diagram on page 10 for reference)

17) Place compressor belt (Gates XL 9451) and power steering belt on th engine. (See Belt Routing Diagram on page 10 for reference)

18) Re-install water pump puley and fan.

19) Install compressor belt over the water pump pulley.

20) Install belt around power steering pulley and crankshaft then tension belt.

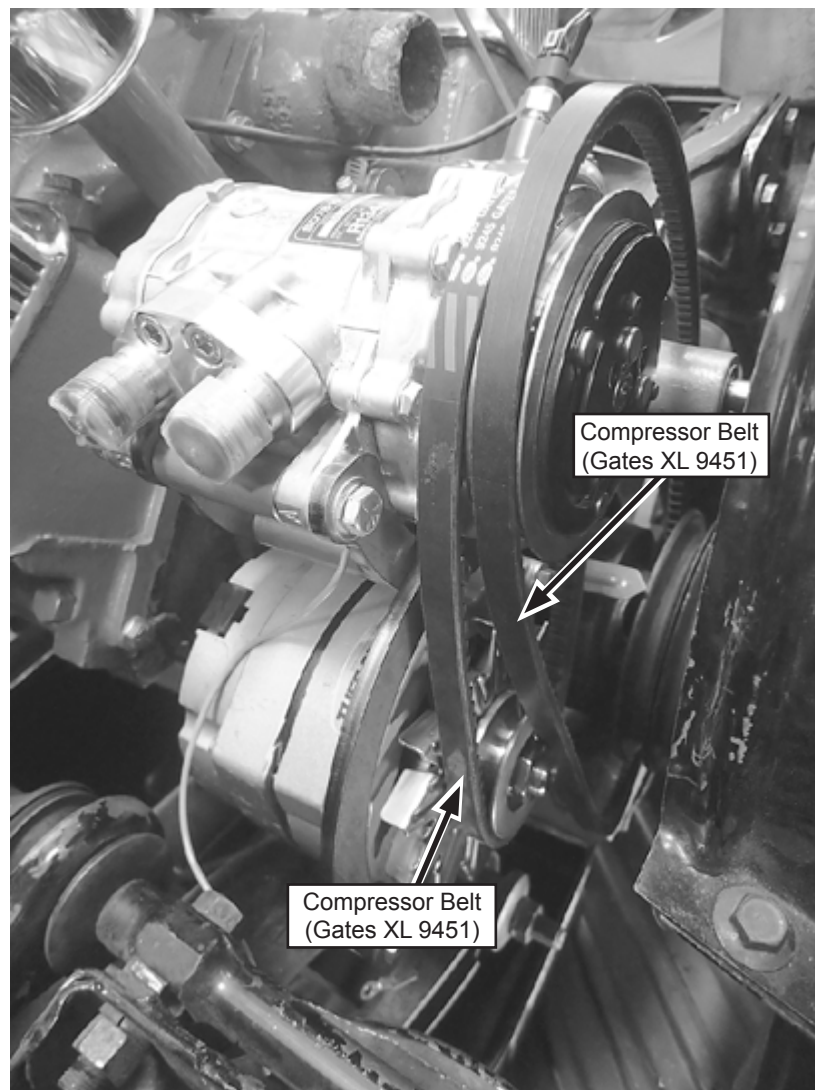


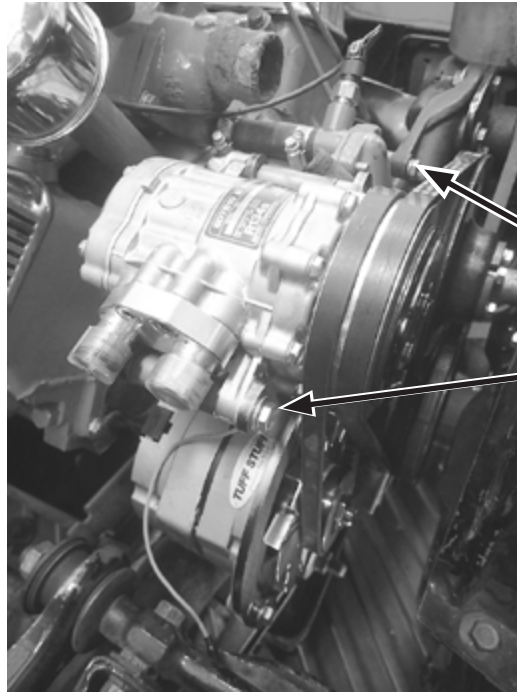
PHOTO #16

21) Rotate compressor in bracket to adjust belt tension and tighten both 5/16-18 x 4-1/2" bolts. (Photo 17)

22) Rotate alternator in bracket to adjust belt tension, tighten 5/16-18 x 1" bolt. Then tighten the 3/8-16 x 3-1/4" hex bolt and the 3/8-16 x 3-1/2" hex bolts installed in steps 5 & 6.

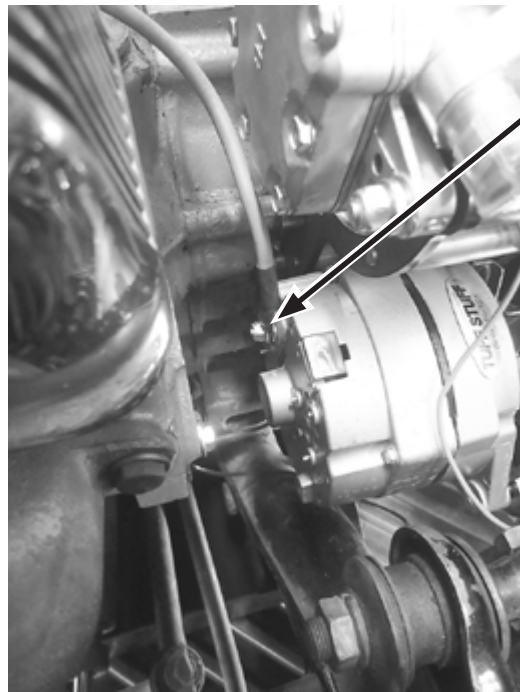
23) Install electrical connection to the alternator. (Photo 18)

24) Reinstall radiator and heater hoses, reconnect battery and refill with coolant.



Tighten
(2) 5/16-18 x 4-1/2
Hex bolts

PHOTO #17

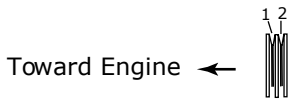
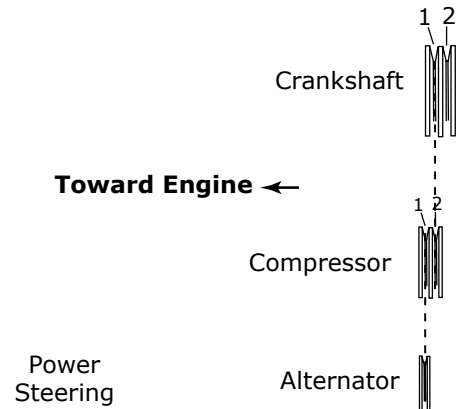
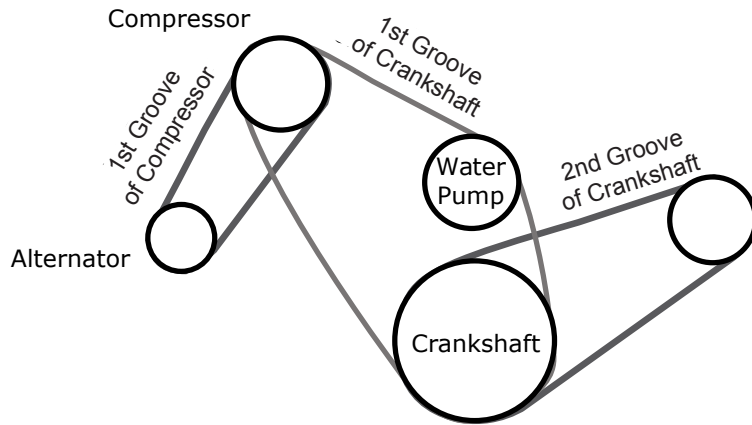


Install electrical
connection to alternator

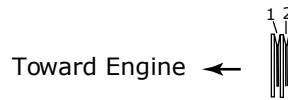
PHOTO #18

Belt Routing Diagram - #40-7306R Bracket

with Power Steering

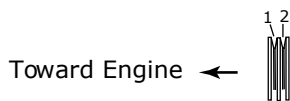
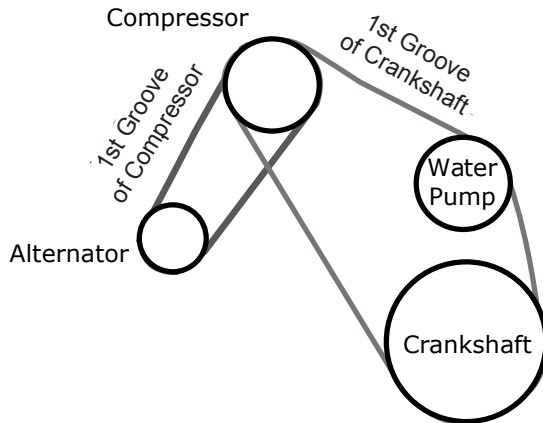


- Compressor Pulley Grooves:**
1. Compressor & Alternator
 2. Crankshaft, Water Pump & Compressor

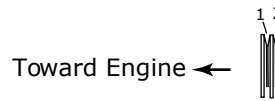


- Crankshaft Pulley Grooves:**
1. Crankshaft, Water Pump & Compressor
 2. Crankshaft & Power Steering

without Power Steering



- Compressor Pulley Grooves:**
1. Compressor & Alternator
 2. Crankshaft, Water Pump & Compressor



- Crankshaft Pulley Grooves:**
1. Crankshaft, Water Pump & Compressor
 2. Unused