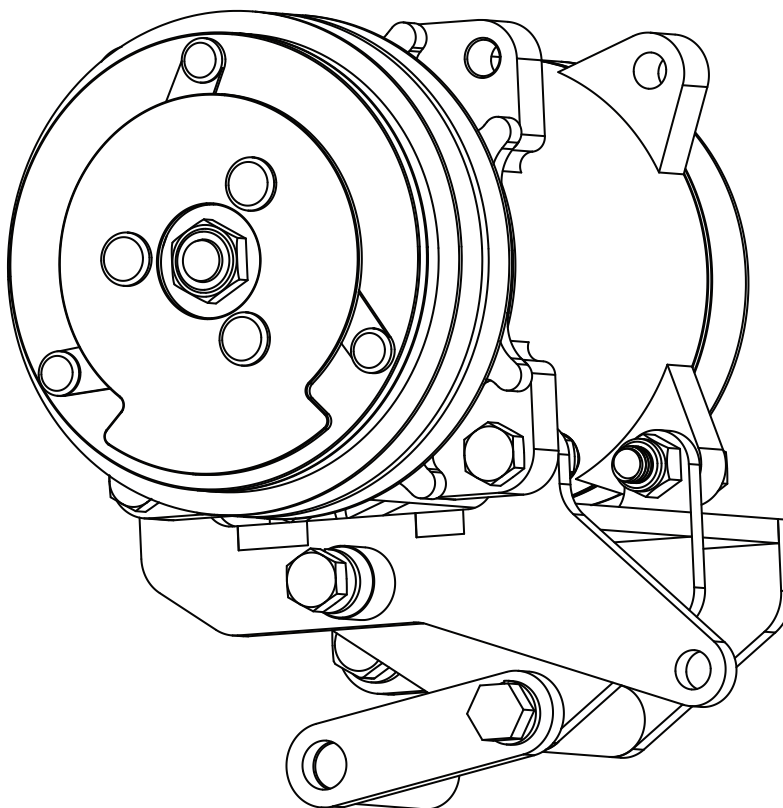




1972-91 AMC V8

Compressor and Alternator Bracket Kit

(158122)



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Additional Info: Please Read Before Beginning

- This kit is designed for use with a Sanden 709 Double V-belt compressor, such as Vintage Air part number 04709-VUA (standard finish), 04709-VUQ (polished finish) or 047090 (chrome finish). **NOTE: 508 compressors will not fit due to interference with engine head.**
- This kit was developed on a 1978 Wagoneer Custom 360 2BBL
- This kit is designed to be compatible with Jeep SJ/J series vehicles equipped with the AMC 360 V8 engine with factory/dealer installed AC. It may be compatible with other models and configurations but fitment cannot be guaranteed.
- This kit is fixed position and designed to tension the V-belts using the OEM alternator bracket.
- The compressor grounds through the bracket and into the engine, therefore, it is important to have a good ground connection. If painted, paint should be removed in the areas where the bracket mounts to the engine and where the compressor mounts to the bracket. A separate ground wire may also be run to ensure ground continuity.
- Vintage Air's SureFit system requires a minimum 60-amp alternator and recommends upgrading to a 100-amp 10si or 12si alternator such as Vintage Air part number 09100-VUA. The OEM alternator may work with the SureFit system, but additional accessories will require additional amperage. Evaluating system requirements and rewiring for higher amperage alternators (using 8 AWG wire) is the sole responsibility of the customer.
- This bracket kit requires a GM/Delco style alternator with 2-groove pulley such as Vintage Air part number 73900-ACP. These pulleys are usually interchangeable. If your vehicle is equipped with an alternator manufactured by Ford, it will need to be replaced with a GM style for correct alignment and output. Due to the internal voltage regulation and higher output, some rewiring may be required (See note above).

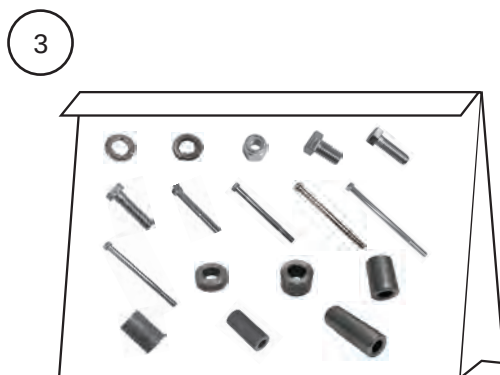
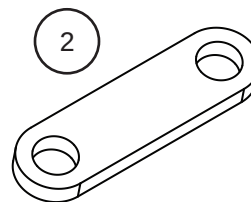
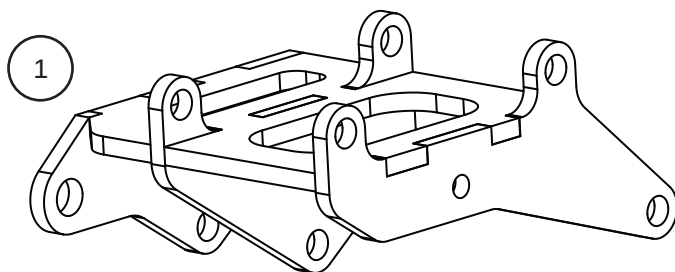


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Packing List: Compressor Bracket Kit (158122)

No.	Qty.	Part No.	Description
1.	1	158123	Bracket, Compressor
2.	1	158128	Bracket, Alternator
3.	1	191139	Hardware Kit

**** Before beginning installation, open all packages and check contents of shipment. Please report any shortages directly to Vintage Air within 15 days. After 15 days, Vintage Air will not be responsible for missing or damaged items.**



**NOTE: Images may not depict actual parts and quantities.
Refer to packing list for actual parts and quantities.**

Engine Disassembly

1. Disconnect the battery.
2. Drain the engine coolant.
3. Evacuate the OEM A/C system (if equipped).
4. Disconnect the OEM AC hoses (if equipped).
5. Remove the upper radiator hose (See Photo 1, below).
6. Loosen (4) nuts that secure the radiator fan (See Photo 2, below).

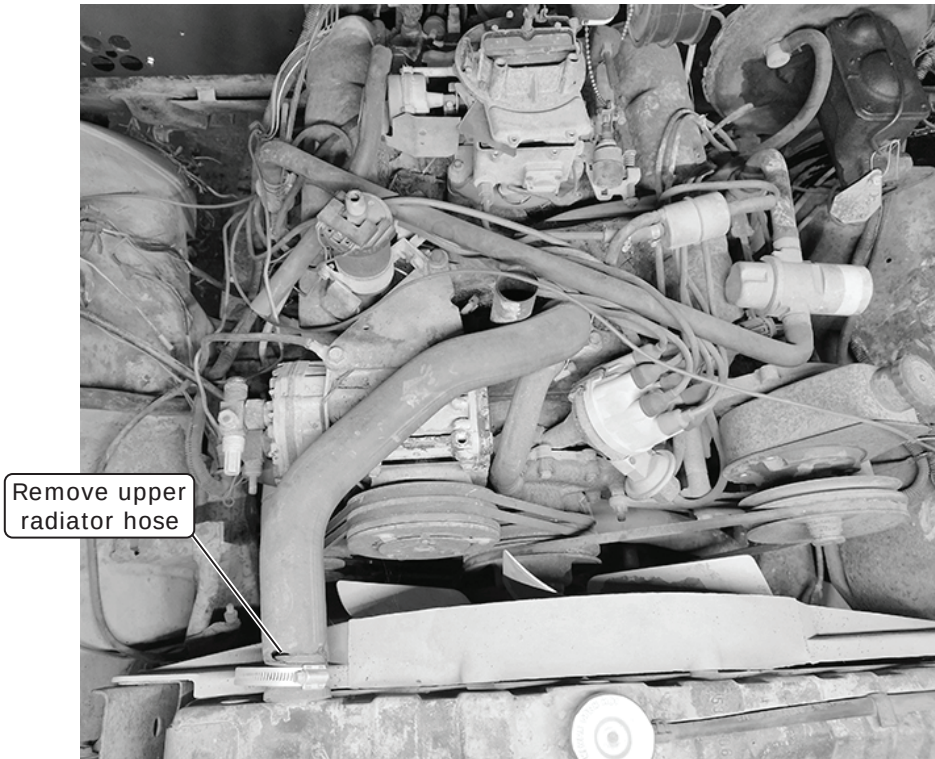


Photo 1

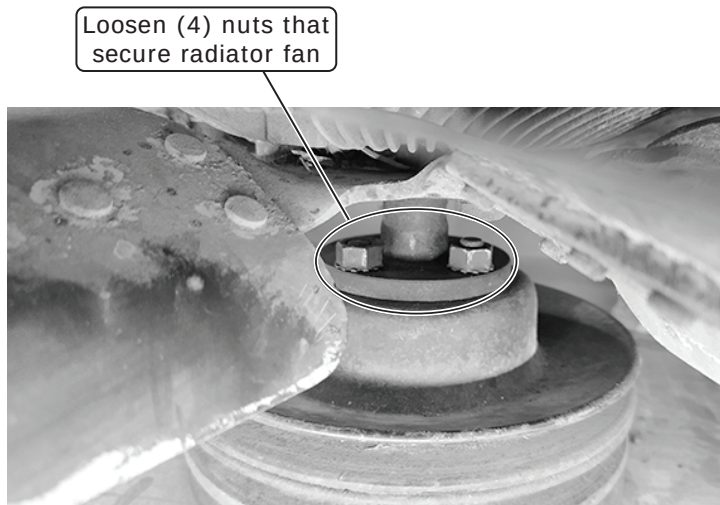


Photo 2

Engine Disassembly (Cont.)

7. Loosen alternator and power steering tensioning bolts (See Photos 3-7, below). **NOTE: Remove and retain alternator bolts and washers.**

Loosen
alternator bolt



Photo 3

Loosen alternator
tensioning bolt

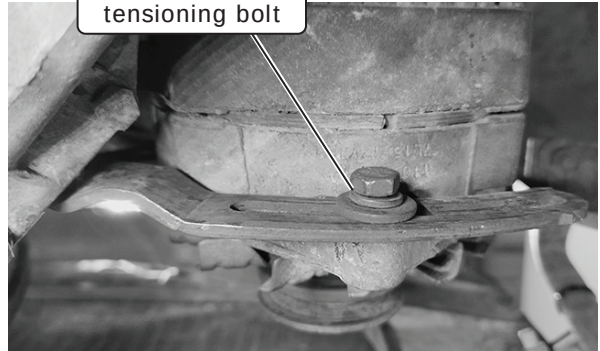


Photo 4

Loosen power steering
tensioning bolt



Photo 5

Loosen power steering
tensioning bolt

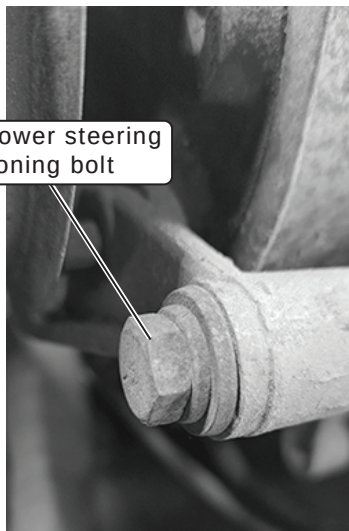


Photo 6

Loosen power steering
tensioning bolt

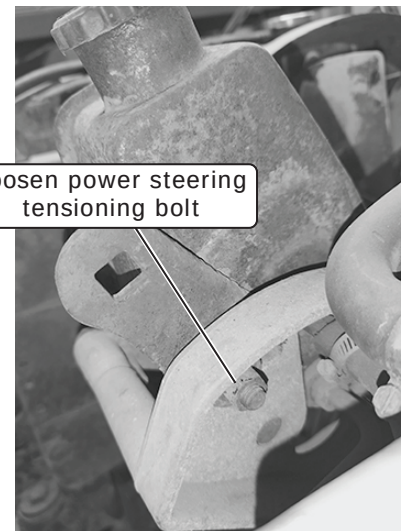


Photo 7

Engine Disassembly (Cont.)

8. Remove the radiator fan and water pump pulley from the water pump.
9. Remove the power steering and alternator belts.
10. Disconnect the electrical wires from the alternator. **NOTE: Take photographs or notes of connections for reinstallation.**
11. Remove the 7/16-14 bolt that secures the alternator and brackets to the motor and remove the alternator (See Step 7, Photo 3 on Page 5). Leave the support strap attached to the alternator (See Photo 8, below).
12. Remove (3) bolts that secure the upper bracket to the compressor and intake manifold (See Photo 9, below).
13. Remove bracket, then resecure the ignition coil bracket to intake manifold with one of the bolts (See Photo 10, below).
14. Remove (1) 7/16-14 bolt that secures compressor bracket to the engine head (See Photo 11, below).

Leave support strap
attached to alternator

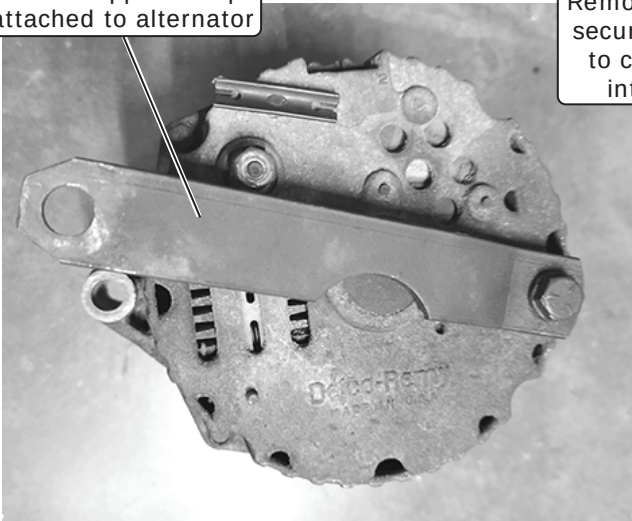


Photo 8

Remove (3) bolts that
secure upper bracket
to compressor and
intake manifold

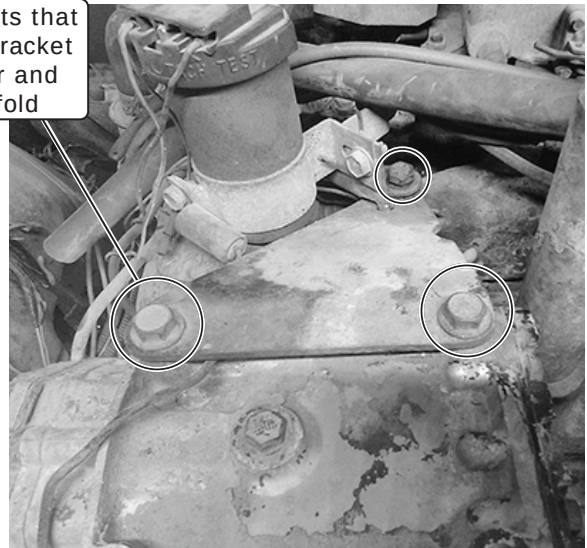


Photo 9

Resecure ignition
coil bracket to intake
manifold with bolt

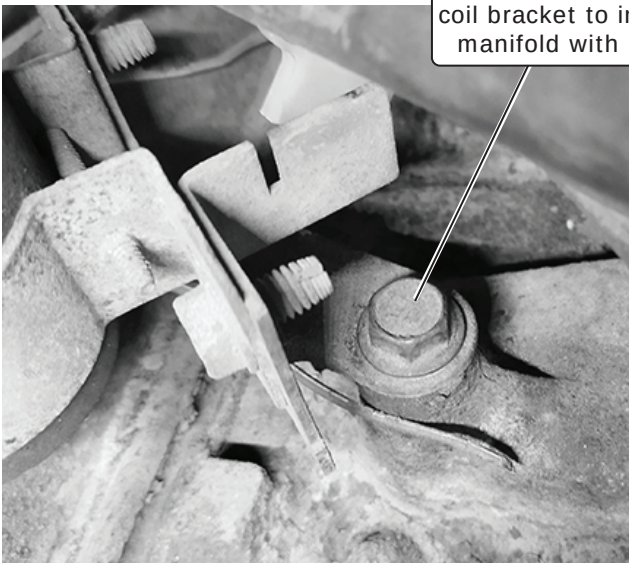


Photo 10

Remove 7/16-14
bolt that secures
compressor bracket
to engine head

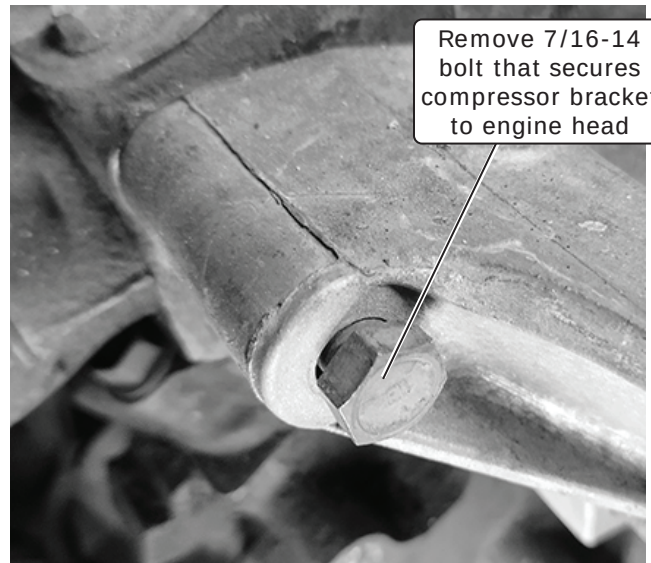


Photo 11

Engine Disassembly (Final)

15. Remove (1) 3/8-16 bolt that secures the compressor bracket to the water pump (See Photo 12, below).
16. Remove (1) 7/16-20 nut that secures the compressor bracket to the stud (See Photo 13, below).
17. Pull the compressor and compressor bracket toward the radiator, then up and off of the stud in the head.
18. Remove the stud from the head (See Photo 14, below).

Remove 3/8-16
bolt that secures
compressor bracket
to water pump

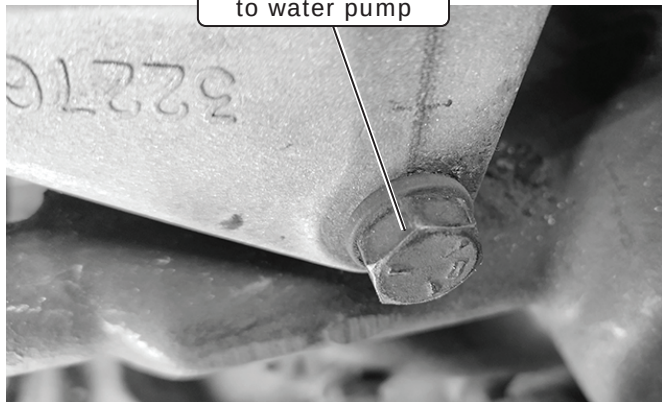


Photo 12

Remove 7/16-20
nut that secures
compressor
bracket to stud

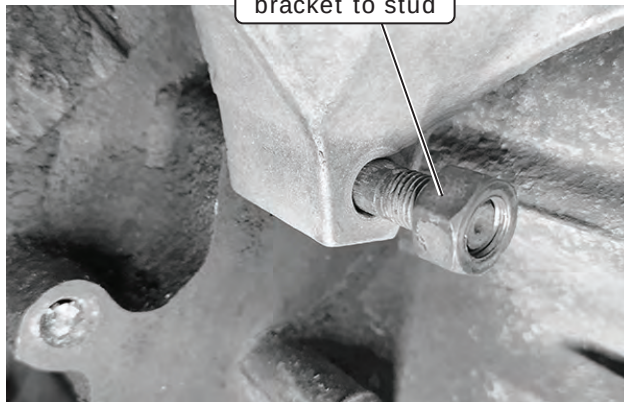


Photo 13

Remove stud
from head

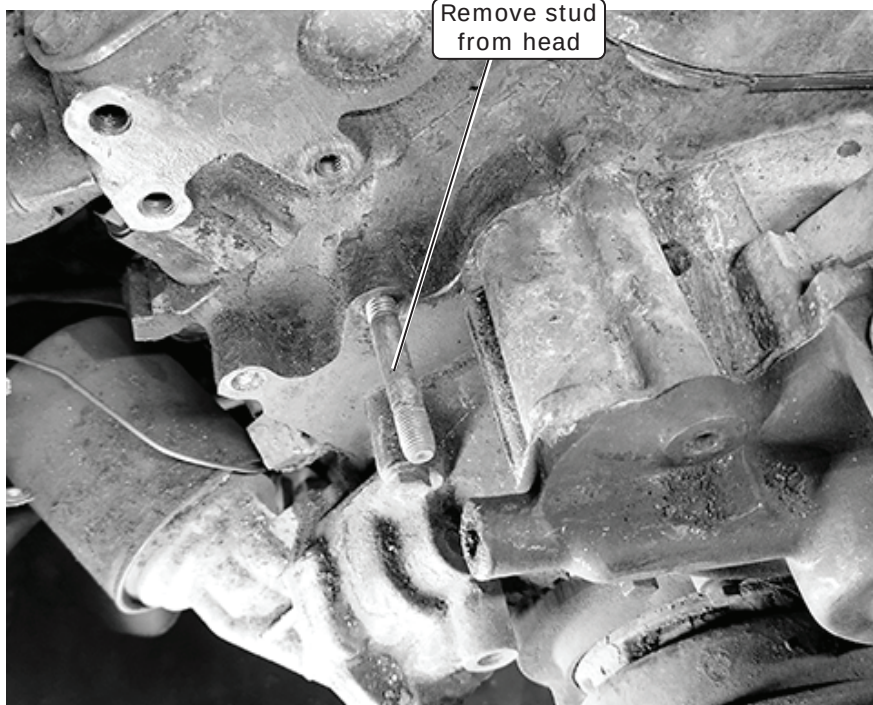


Photo 14

NOTE: Before tightening bolts, assemble all brackets loosely to engine. This will ensure proper alignment of all brackets.

Alternator and Compressor Bracket Installation

1. Install the 3/8-16 x 5 1/2" hex bolt and 3/8" lock washer through the main alternator bracket and the .750" OD x .406" ID x 1" length steel spacer into the engine as shown in Photo 1, below.
2. Install the 3/8-16 x 5" hex bolt and the 3/8" lock washer through the main alternator bracket, then install the alternator swing arm into the oil pump on the engine as shown in Photo 1, below.
3. Install the compressor bracket to the engine head using a 7/16-14 x 3/4" hex bolt as shown in Photo 2, below.

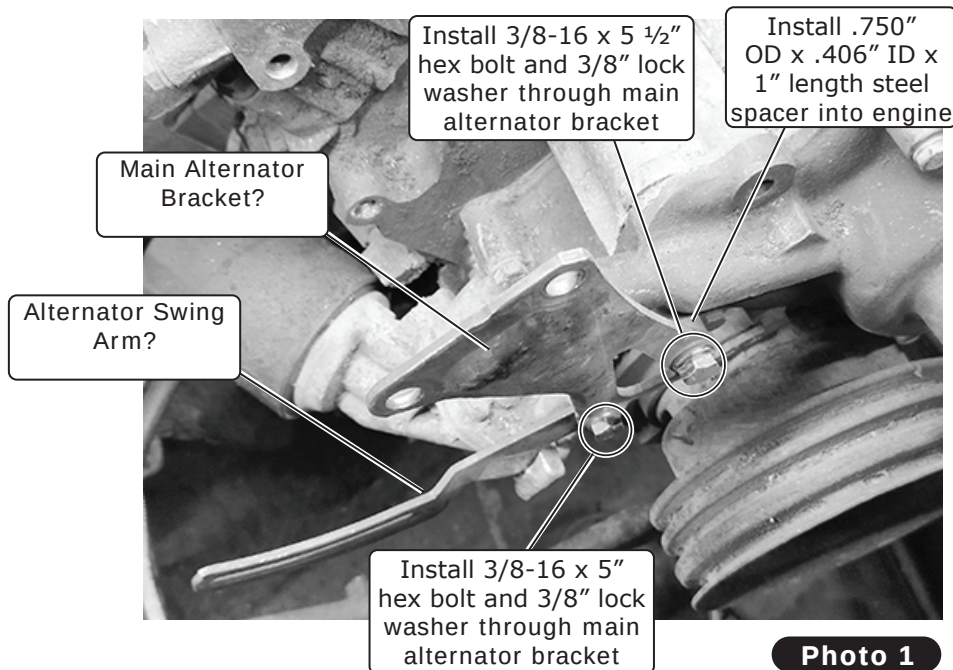


Photo 1

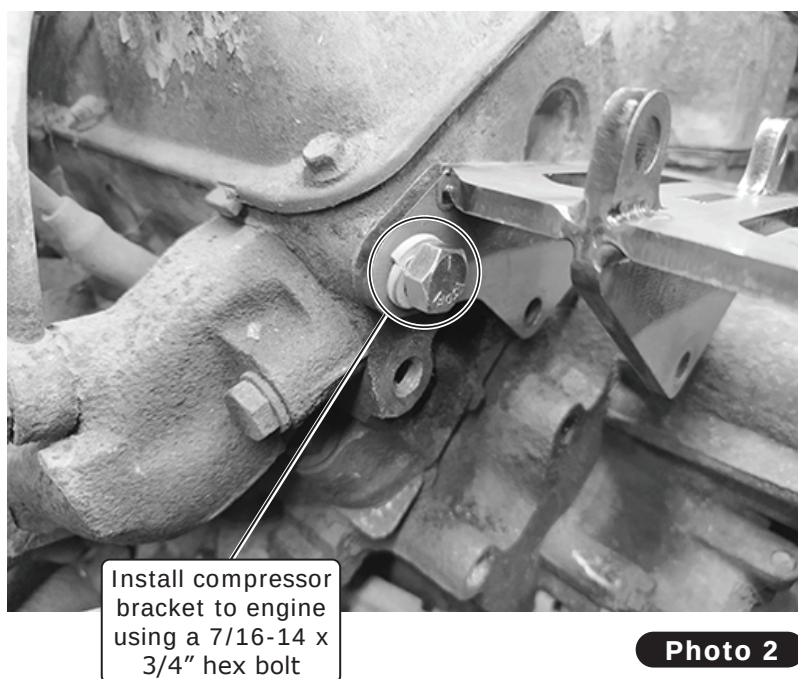


Photo 2

NOTE: Before tightening bolts, assemble all brackets loosely to engine. This will ensure proper alignment of all brackets.

Alternator and Compressor Bracket Installation (Cont.)

4. Apply thread sealant to the 3/8-16 x 5" hex bolt and place the .750" OD x .406" ID x .313" length steel spacer between the bracket assembly and the water pump. Install the 3/8" lock washer to the bolt and thread through the bracket, spacer, water pump and into the engine (See Photo 3, below).
5. Install the 3/8" lock washer and alternator bracket onto the 3/8-16 x 3" hex bolt. With the .750" OD x .406" ID x 1.750" length steel spacer between the bracket plates, thread the bolt through the bracket assembly into the head as shown in Photo 4, below.

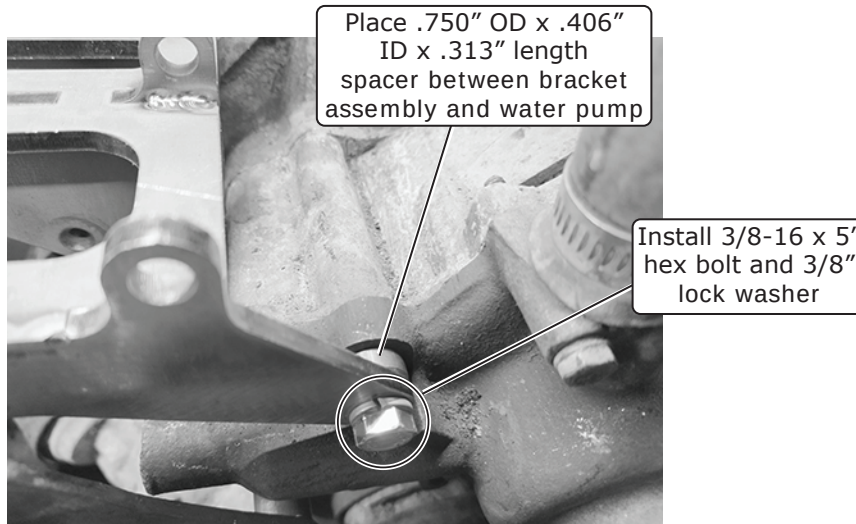


Photo 3

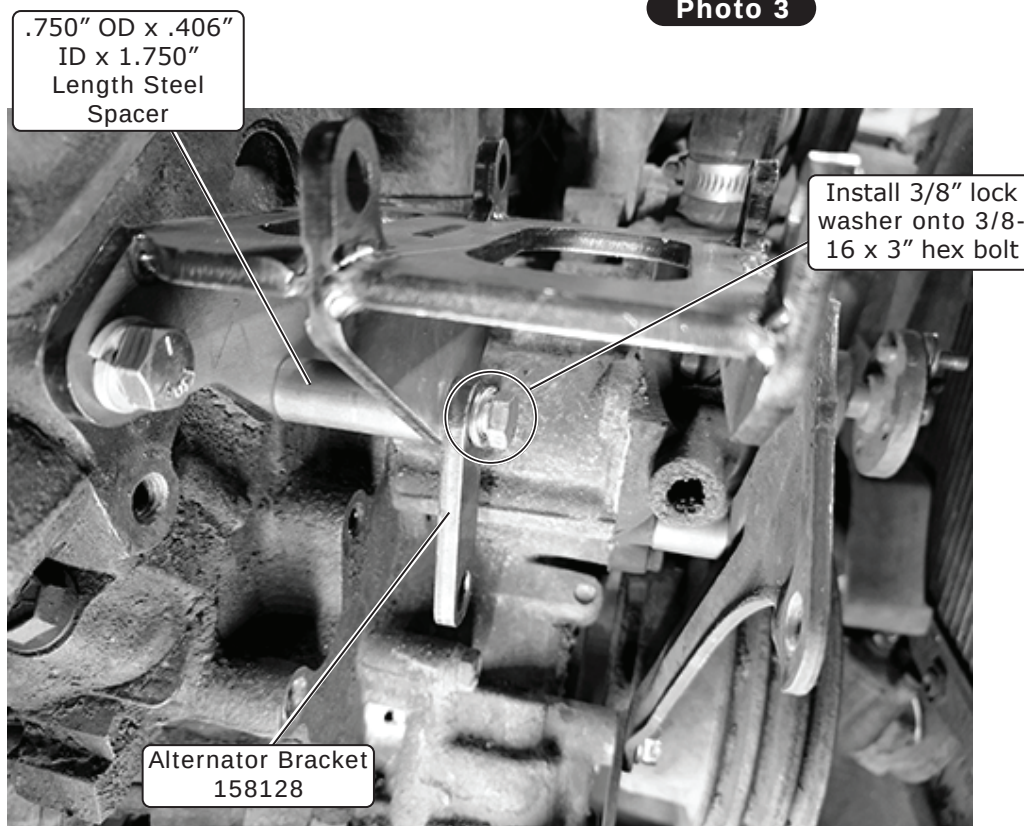


Photo 4

NOTE: Before tightening bolts, assemble all brackets loosely to engine. This will ensure proper alignment of all brackets.

Alternator and Compressor Bracket Installation (Final)

6. Install 3/8-16 x 1 1/4" hex bolt and 3/8" lock washer through the main alternator bracket and .750" OD x .406" ID x .500" length steel spacer into the threaded boss in the compressor bracket assembly (See Photo 5, below).
7. Tighten all bolts except for the two that pass through the swing arms (See Photo 6, below).

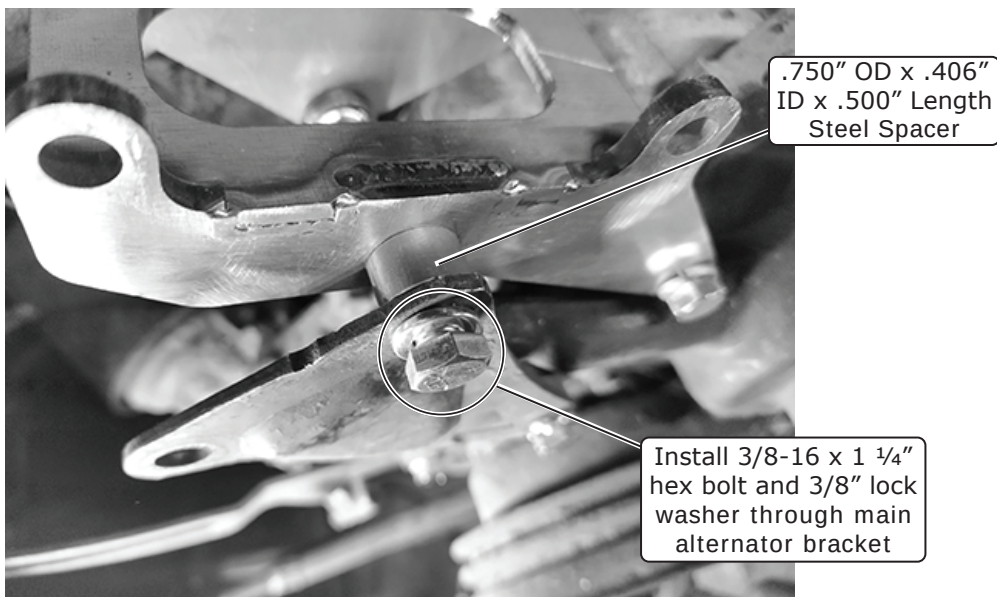


Photo 5

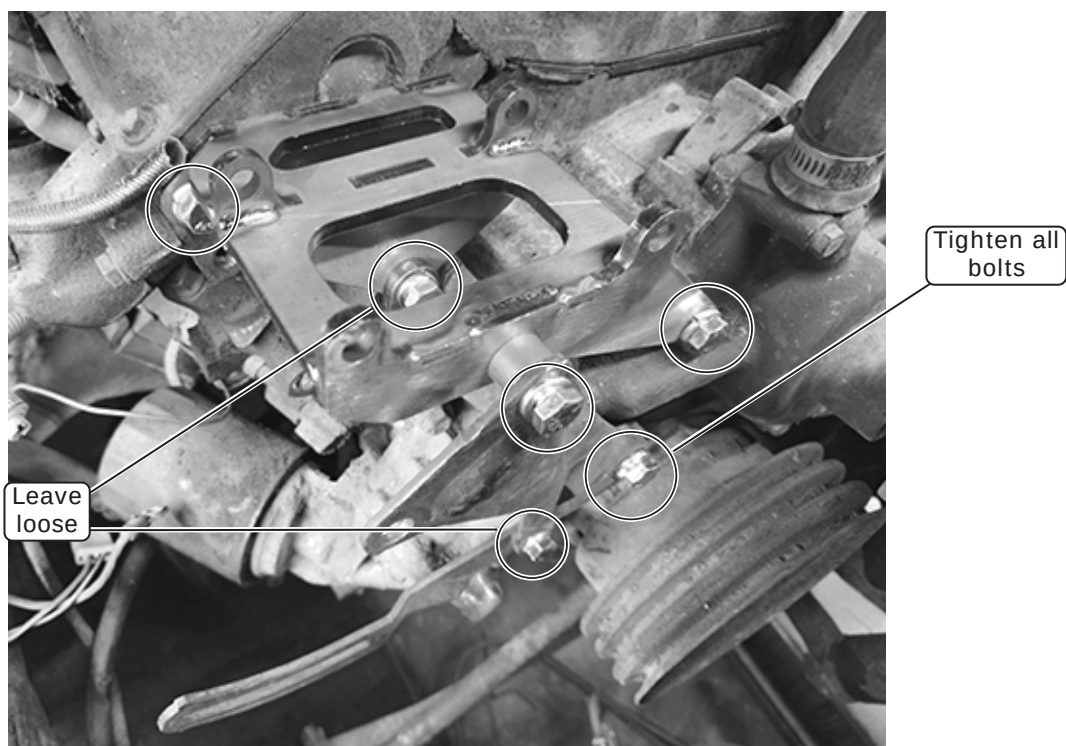


Photo 6

Alternator Installation

1. Install the 7/16-14 x 6 1/2" hex bolt and 7/16" lock washer through the alternator bracket, alternator, .750" OD x .482" ID x 1.125" length steel spacer, alternator bracket, .750" OD x .482" ID x 2.125" length steel spacer, OEM alternator support strap, and into the head as shown in Photo 1, below. **NOTE: Some engines may require a 3/8-16 x 6 1/2" hex bolt in place of a 7/16-14 x 6 1/2" hex bolt.**
2. Reinstall the tensioning arm onto the rear of the alternator. Secure with OEM hardware (See Disassembly Step 7, Photo 3, Page 5).
3. Reconnect the electrical connections.

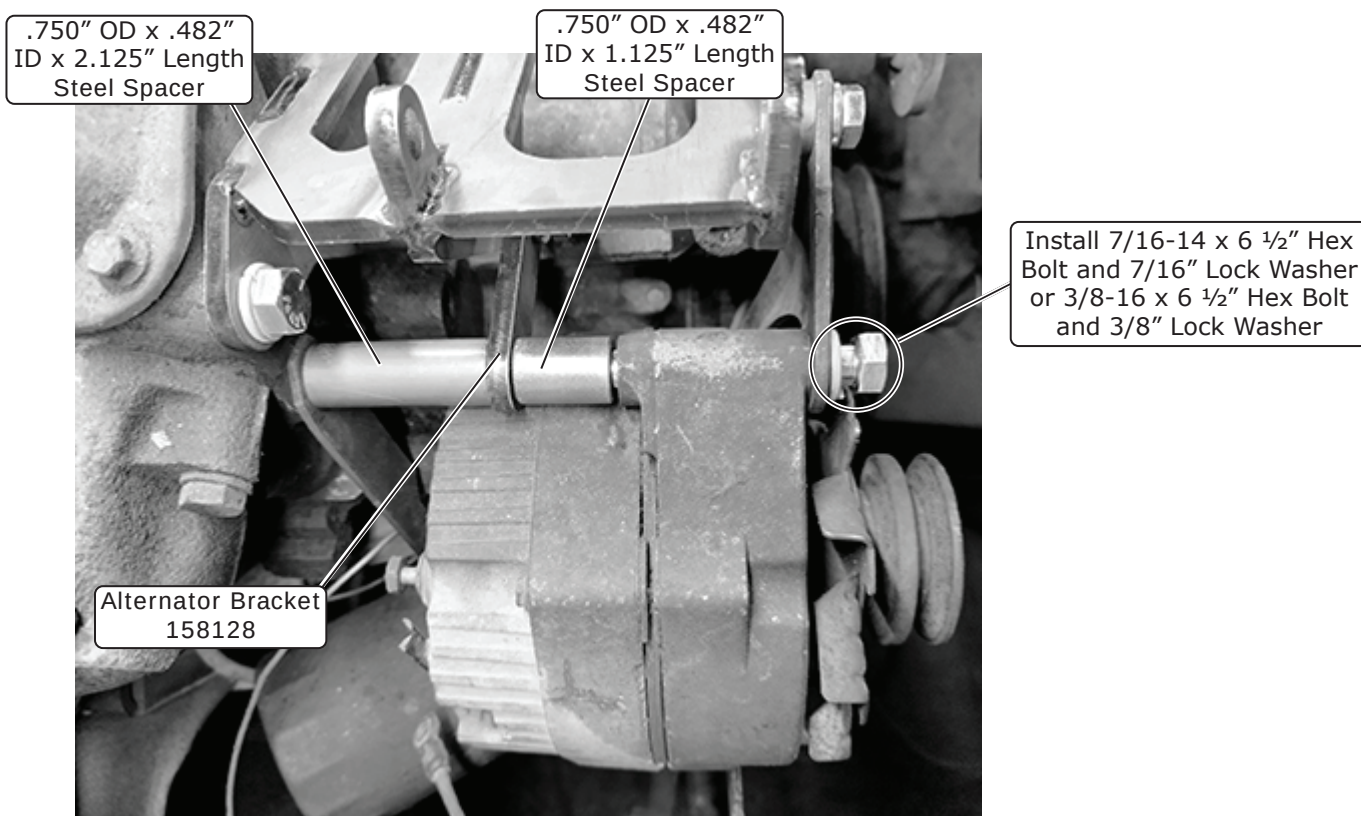


Photo 1

Compressor Installation

1. Install the compressor onto the bracket assembly (See Photo 1, below).
2. Secure the compressor using (4) 3/8-16 x 1 1/2" hex bolts and (4) 3/8-16 locknuts (See Photos 2 and 3, below).
3. Tighten all (4) nuts and bolts.

Install
compressor onto
bracket assembly

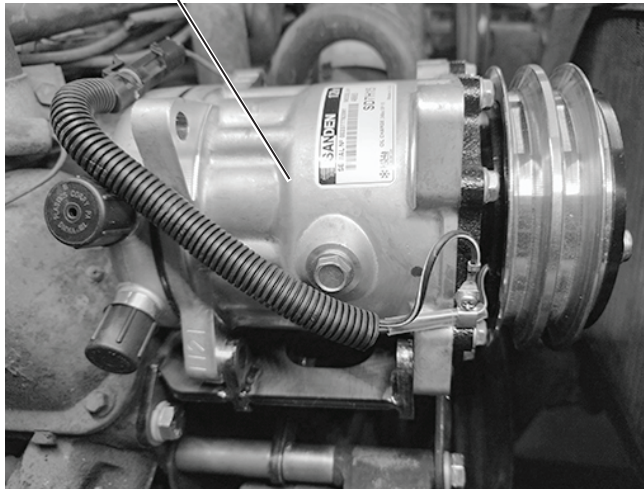


Photo 1

Secure using 3/8-16
x 1 1/2" hex bolt and
3/8-16 locknuts

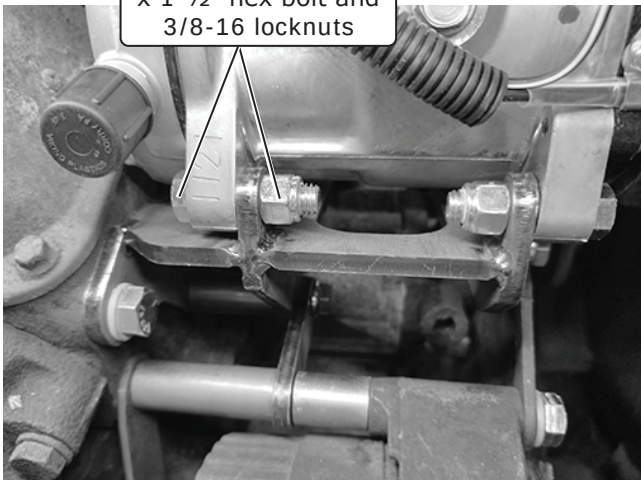


Photo 2

Secure using 3/8-16
x 1 1/2" hex bolt and
3/8-16 locknuts

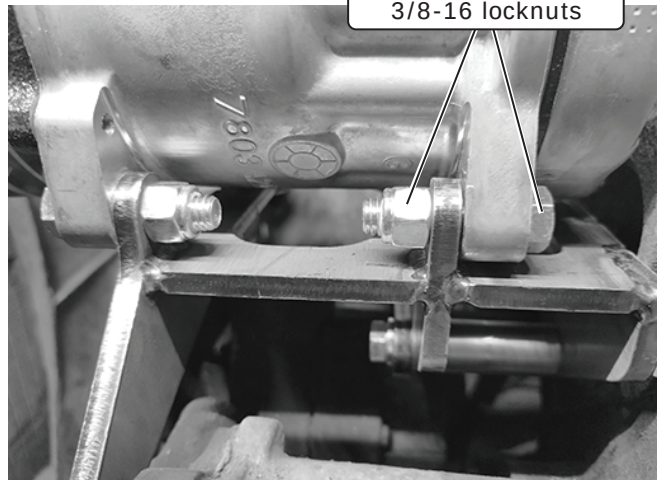
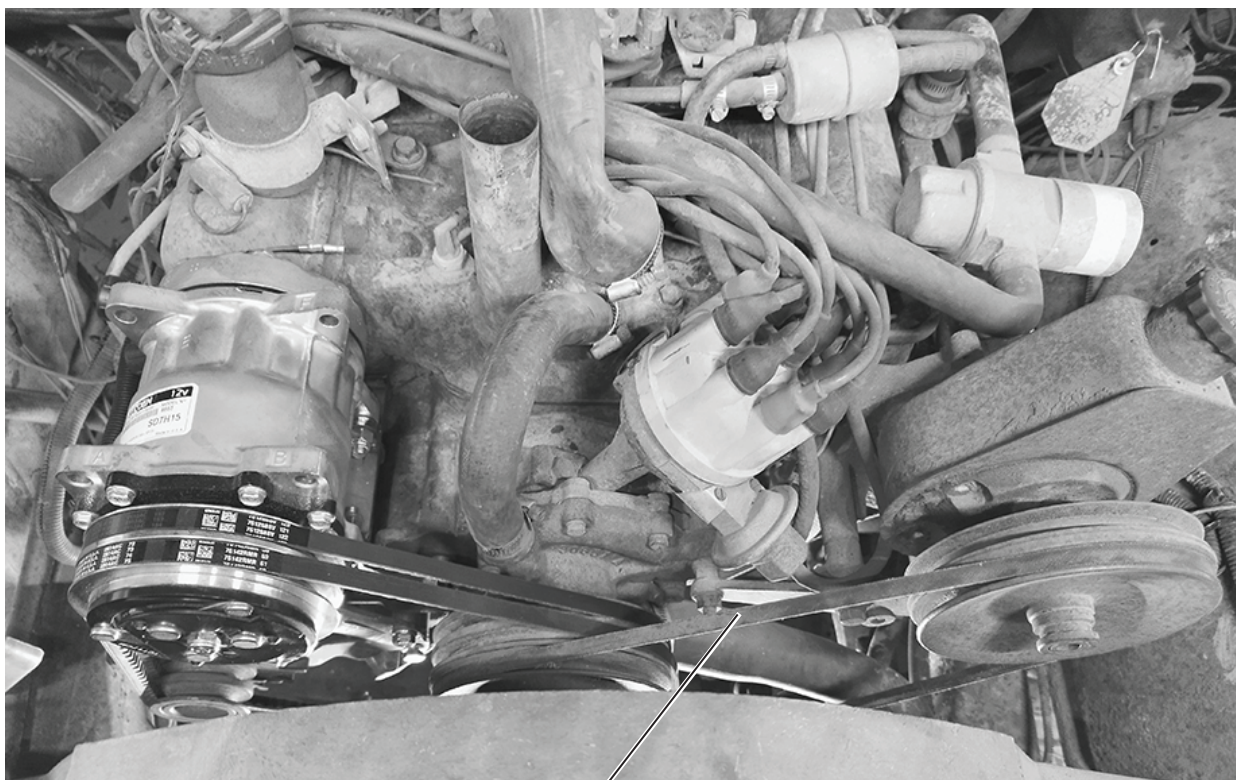


Photo 3

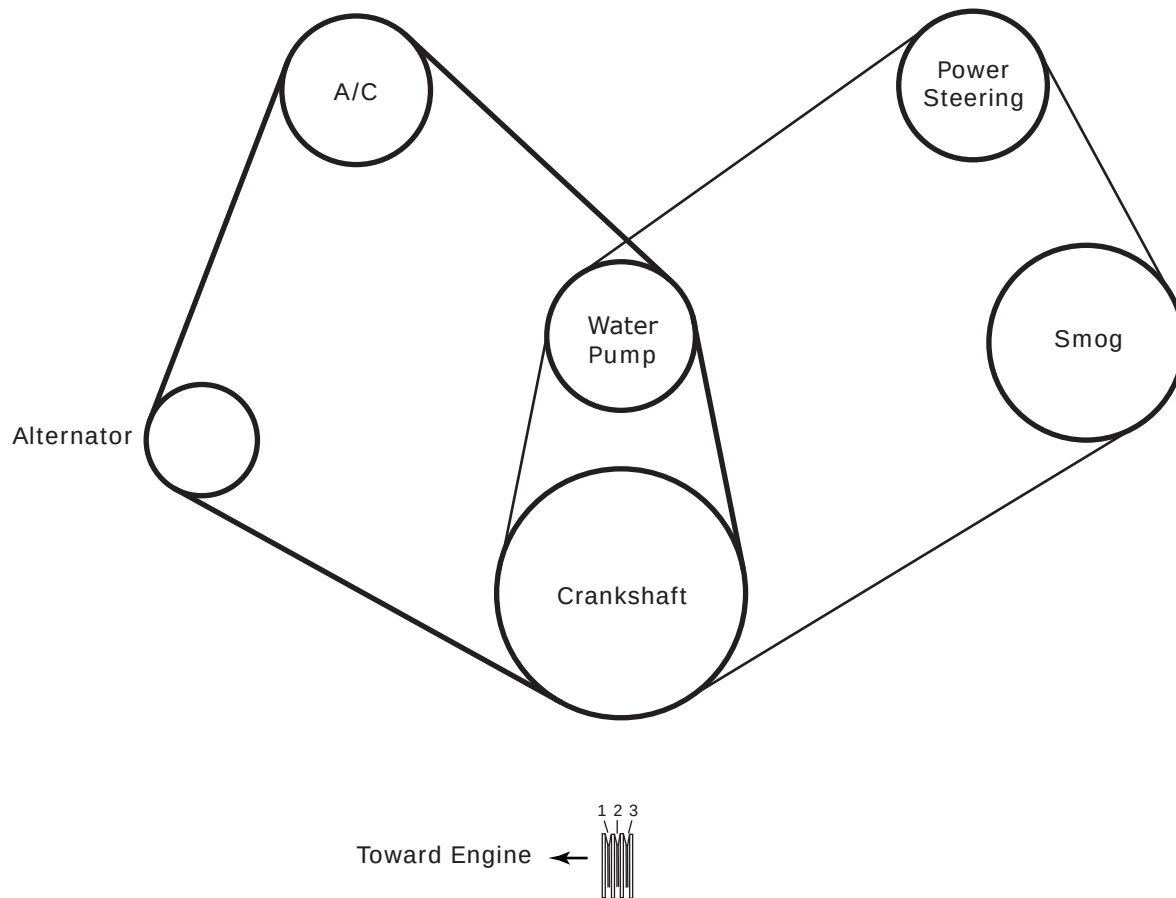
Belt Installation

1. Reinstall water pump pulley and radiator fan. (Some photos may show fan off for illustration purposes).
2. Measure and test fit (2) V-belts onto the crank, water pump, and compressor, tensioning with alternator (See Photo 1, below). **NOTE: Vintage Air used (2) Gates XL 7508 for the compressor and alternator, but belt size may vary for your application due to pulley diameter and accessory configuration.**
3. Reinstall and tension power steering belt (See Photo 1, below).



Reinstall and
tension power
steering belt

Photo 1



Crankshaft Pulley Grooves:

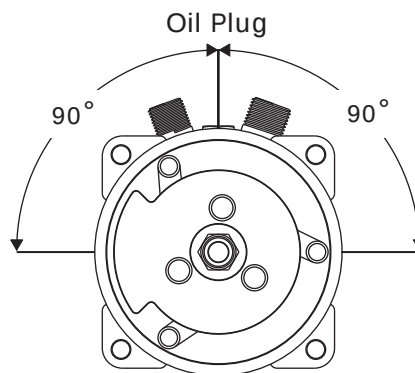
1. Crankshaft, Alternator, A/C & Water Pump
2. Crankshaft, Alternator, A/C & Water Pump
3. Crankshaft, Water Pump, Power Steering & Smog (If Equipped)

Important Compressor Information

Sanden & TCCI 7H15 "709" Compressors

NOTE: Failure to follow these procedures may void all warranties.

- Do not connect compressor clutch wire until system is being charged with refrigerant. Since an A/C system relies on refrigerant to circulate lubricant, running the compressor without refrigerant may destroy the compressor and void the warranty.
- Proper compressor orientation is important. Sanden compressors may be rotated from vertical (oil fill plug at top) up to 90° in either direction (See illustration, below).



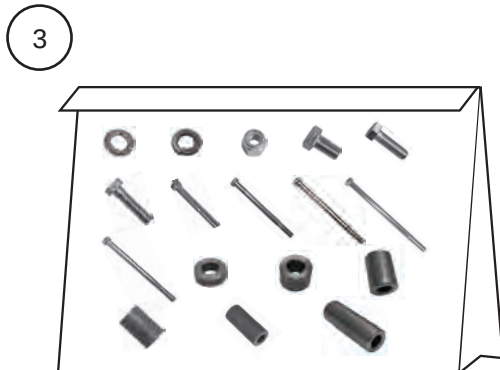
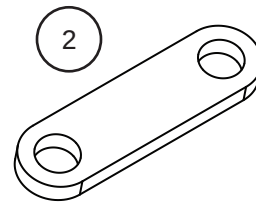
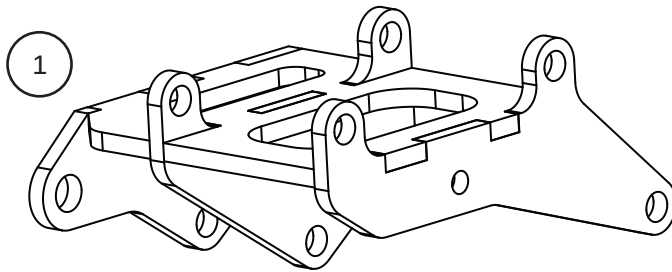


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Packing List: Compressor Bracket Kit (158122)

No.	Qty.	Part No.	Description
1.	1	158123	Bracket, Compressor
2.	1	158128	Bracket, Alternator
3.	1	191139	Hardware Kit

Checked By: _____
Packed By: _____
Date: _____



**NOTE: Images may not depict actual parts and quantities.
Refer to packing list for actual parts and quantities.**