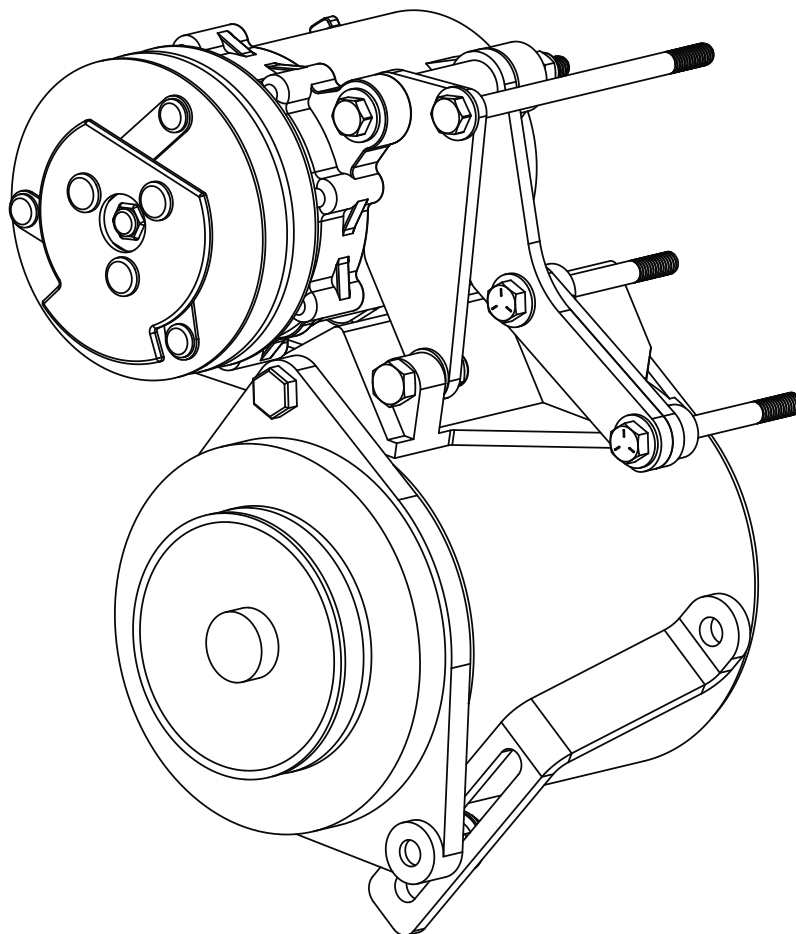




an ISO 9001:2015 Registered Company

1955-57 Ford Thunderbird

Y-Block Compressor / Generator Bracket Kit (137110)



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Additional Info: Please Read Before Beginning

- This kit is designed to work with the OEM generator, OEM bracket and OEM tensioner arm. The kit will require these items and includes new hardware.
- A Gates XL 9463 belt was used for this install. A different belt may be needed depending on your pulley diameters.
- The heater hose fitting on the water pump will need to be clocked to 12:00 as shown to clear the compressor.
- Due to differences in years and castings, some spacing may need to be adjusted with a washer.
- The bolts going into the timing cover, water pump and engine block, will require thread sealer. Vintage Air recommends using Permatex 59214 High-Temp Thread Sealant.
- When painting brackets, a ground path must be maintained either by masking/removing paint on the brackets, or by adding ground wires to contact the compressor and alternator bodies.
- This bracket requires a pre-drilled 7B10 V-belt compressor (046712 Standard Finish or 046713 Polished Finish) and the accompanying O-ring adapter fitting kit (045003 Machined Finish or 045004 Polished Finish).

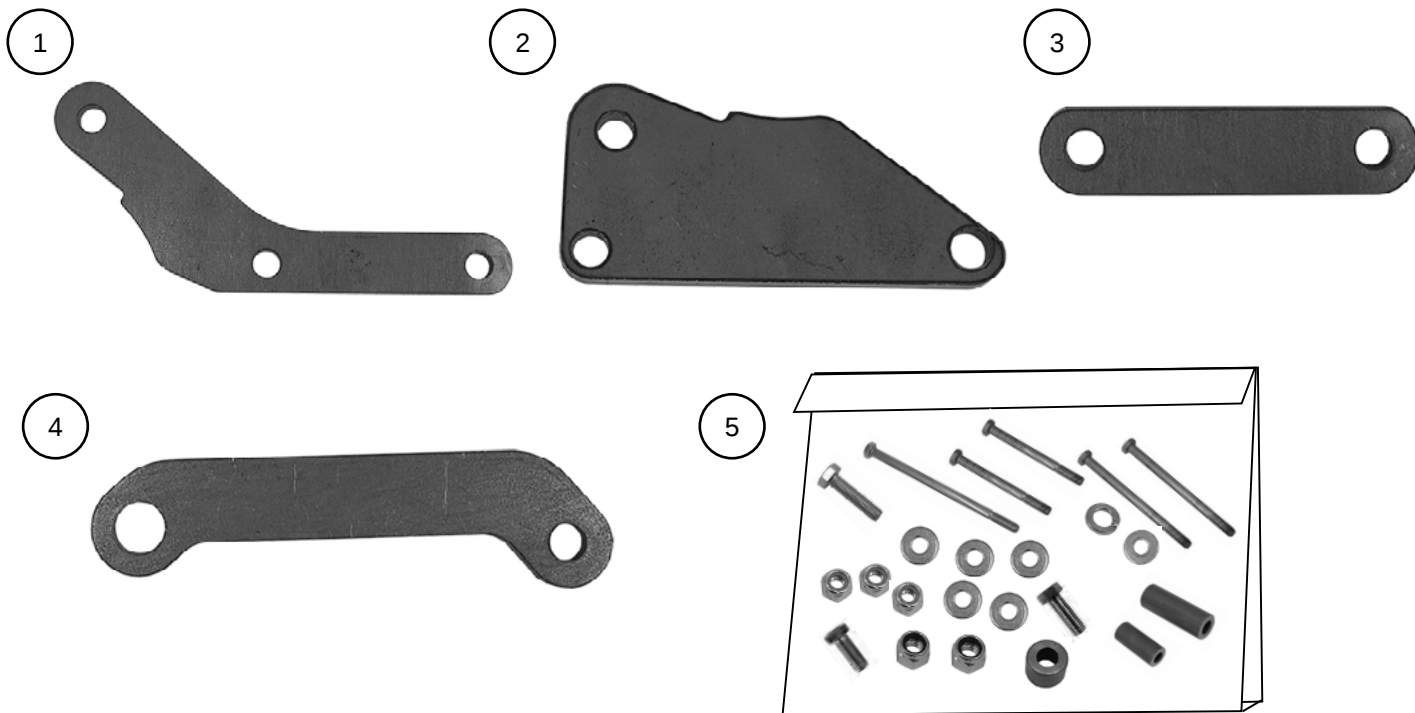


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Packing List: Bracket Kit (137110)

No.	Qty.	Part No.	Description
1.	1	137111	Bracket, Rear
2.	1	137112	Bracket, Front
3.	1	137113	Bracket, Spacer
4.	1	137114	Bracket, Arm
5.	1	191127	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.**



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Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

NOTE: Vintage Air systems are designed to operate with R134a refrigerant only. Use of any other refrigerant could damage your A/C system and/or vehicle, and possibly cause a fire, in addition to potentially voiding the warranties of the A/C system and its components.

Refrigerant Capacities:

Vintage Air System: 1.8 lbs. (28.8 oz.) or 816 grams of **R134a**, charged by weight with a quality charging station or scale. **NOTE:** Use of the proper type and amount of refrigerant is critical to system operation and performance.

Other Systems: Consult manufacturer's guidelines.

Lubricant Capacities:

New Vintage Air-Supplied Sanden Compressor: No additional oil needed (Compressor is shipped with proper oil charge).

All Other Compressors: Consult manufacturer (Some compressors are shipped dry and will need oil added).

Safety Switches

Your Vintage Air system is equipped with a binary pressure safety switch. A binary switch disengages the compressor clutch in cases of extreme low pressure conditions (refrigerant loss) or excessively high head pressure (406 PSI) to prevent compressor damage or hose rupture. A trinary switch combines Hi/Lo pressure protection with an electric fan operation signal at 254 PSI, and should be substituted for use with electric fans. Compressor safety switches are extremely important since an A/C system relies on refrigerant to circulate lubricant.

Service Info:

Protect Your Investment: Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remain capped. Removing caps prior to assembly will allow moisture, insects and debris into the components, possibly leading to reduced performance and/or premature failure of your A/C system. This is especially important with the receiver/drier.

Additionally, when caps are removed for assembly, **BE CAREFUL!** Some components are shipped under pressure with dry nitrogen.

Evacuate the System for 35-45 Minutes: Ensure that system components (Drier, compressor, evaporator and condenser) are at a temperature of at least 85°F. On a cool day, the components can be heated with a heat gun **or** by running the engine with the heater on before evacuating. Leak check and charge to specifications.

Bolts Passing Through Cowl and / or Firewall:

To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the cowl and/or firewall, Vintage Air recommends coating the threads with silicone prior to installation.

Heater Hose (not included with this kit):

Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.

Generator and Bracket Disassembly

1. Disconnect the battery.
2. Drain the coolant and remove the upper radiator and heater hose.
3. Loosen the power steering belt (if equipped), then remove the generator belt.
4. Remove the fan and water pump pulley.
5. Remove the "Z" bracket that ties the water pump to the generator bracket (See Photo 1, below).
6. Disconnect the wiring from the generator.
7. Remove the generator tensioning arm from the engine (See Photo 1, below).
8. Remove the (2) bolts that hold the OEM generator bracket to the engine (See Photo 1, below).
9. Remove the bracket and the generator assembly from the engine.
10. Remove the bolts and nuts that hold the generator to the OEM generator bracket (See Photo 2, below).

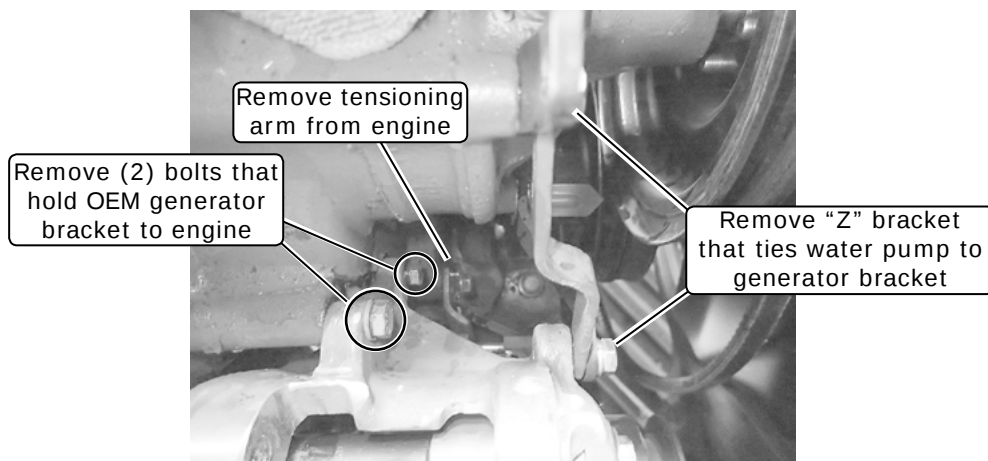


Photo 1

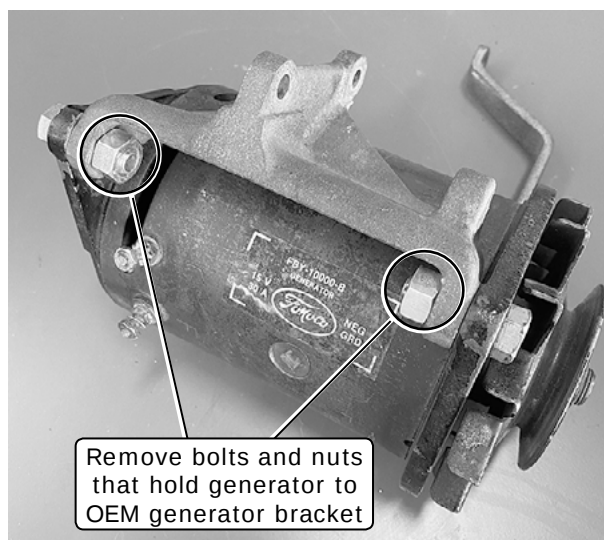


Photo 2

Compressor and Generator Bracket Installation

1. Secure the OEM generator to the generator bracket using a 7/16-14 x 1 ¼" hex bolt and a 7/16-14 hex locknut, with the bolt head facing the engine, as shown in Photo 1, below.
2. Install a 7/16-14 x 2 ¼" hex bolt from the front of the assembly through the generator, OEM generator bracket, .750" OD x .469" ID x 0.625" length spacer and the arm bracket. Secure with a 7/16-14 hex locknut, leaving it loose enough for the arm bracket to rotate (See Photo 1, below).
3. Install the tensioning arm to the generator using a 3/8-16 x 1" hex bolt, 3/8" lock washer and a 3/8" flat washer as shown in Photo 2, below.
4. Install a 5/16-18 x 1 ¼" hex bolt into the threaded boss on the front of the OEM generator bracket (See Photo 3, below).
5. Install (2) 5/16-18 x 3 ½" hex bolts, (2) 5/16" flat washers and the spacer bracket onto the rear bracket as shown in Photo 4, below. **NOTE: The spacer bracket has a flattened side that must face the longer side of the rear bracket as shown in Photo 4, below, to fit on the generator bracket.**

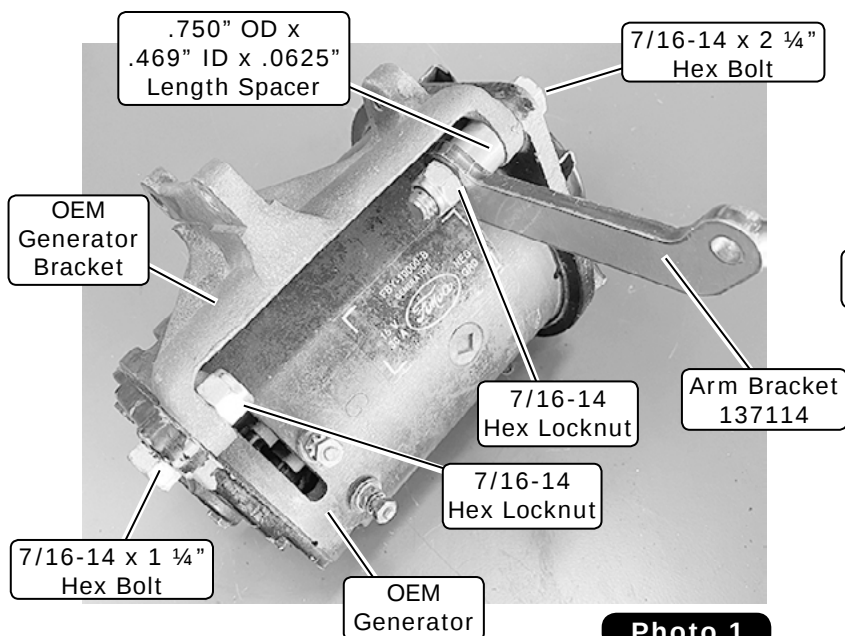


Photo 1

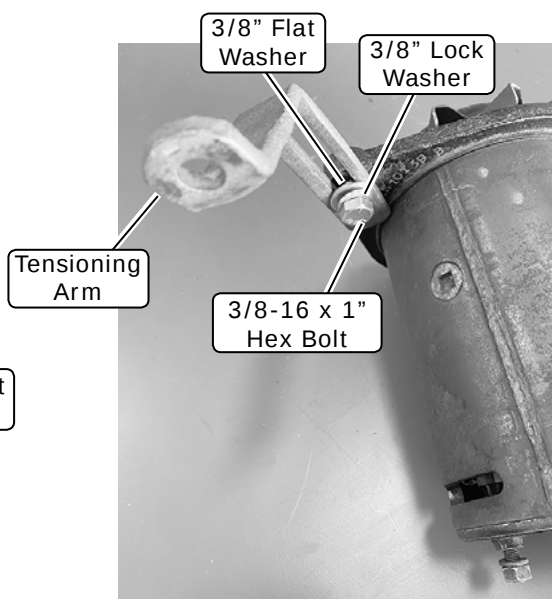


Photo 2

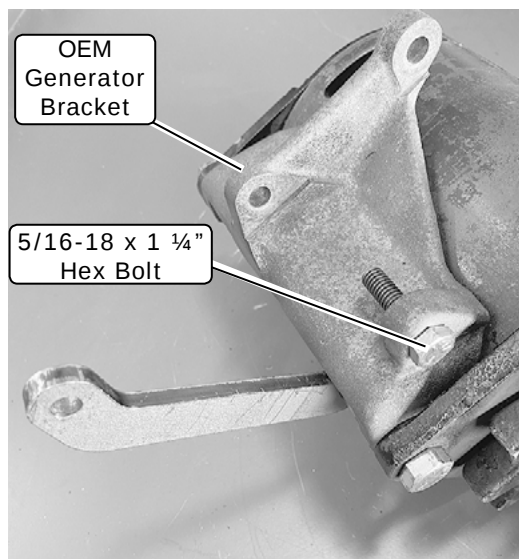


Photo 3

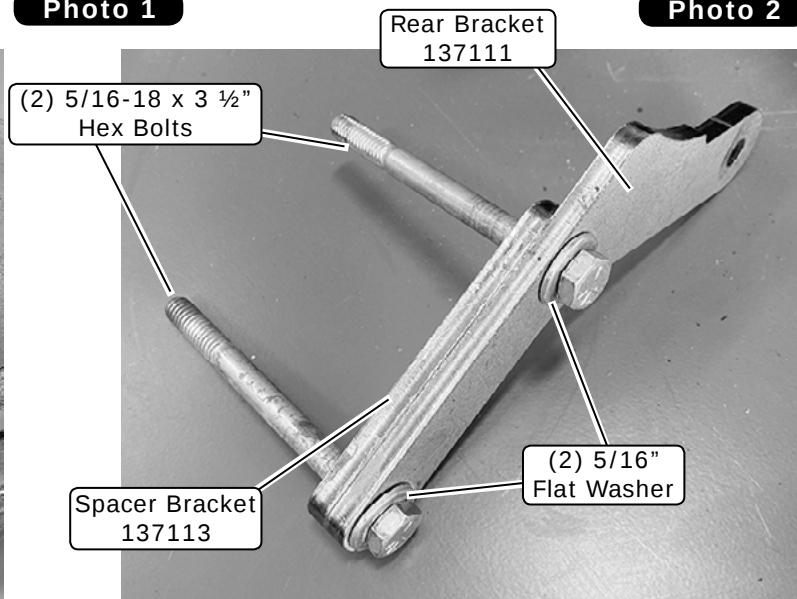


Photo 4

Compressor and Generator Bracket Installation (Cont.)

6. Install the rear bracket onto the OEM generator bracket assembly as shown in Photo 5, below.
7. Install a 5/16" flat washer onto the backside of the 5/16-18 x 1 1/4" hex bolt (See Photo 5, below). Once thread sealer is applied to the bolts, the assembly is ready to be installed onto the engine.
8. Use the mounting holes on the engine block as shown in Photo 6, below, for the bracket assembly.
9. Secure the generator tensioning arm to the engine using thread sealer (See Photo 7, below).

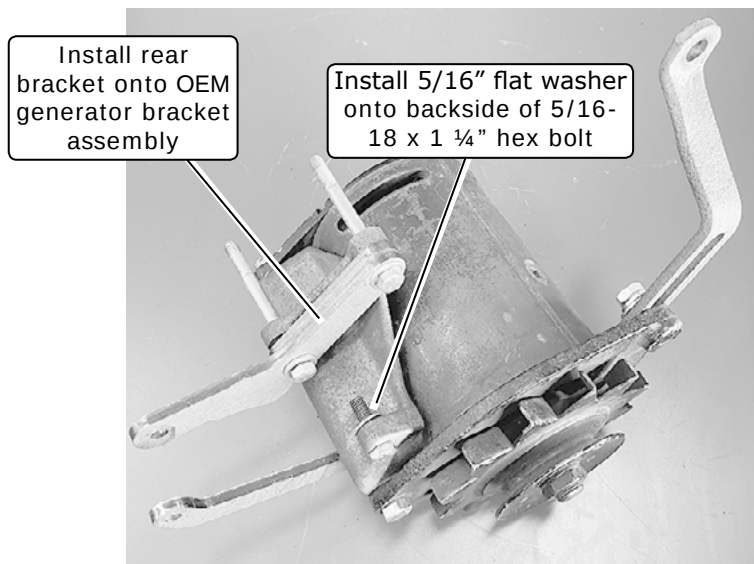


Photo 5

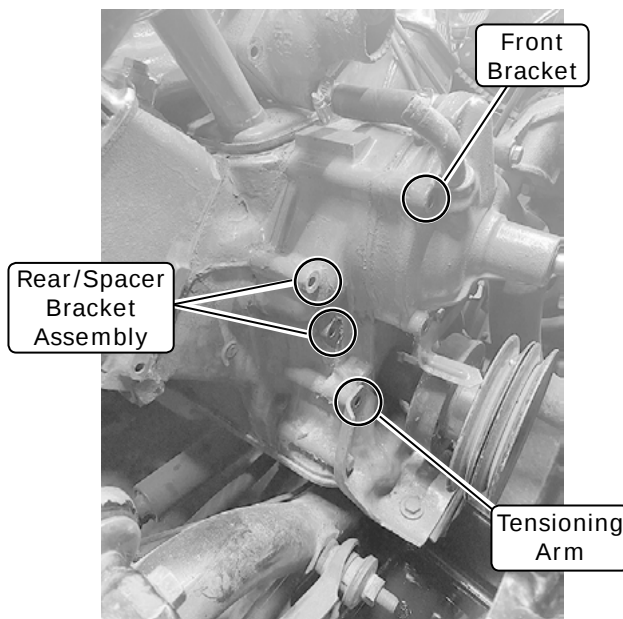


Photo 6

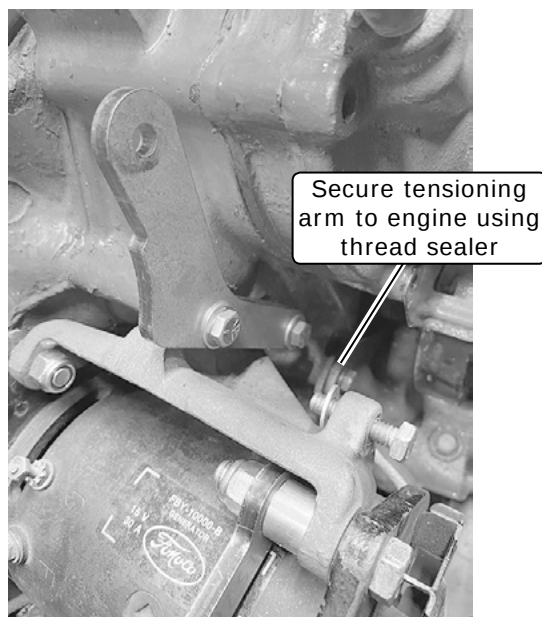


Photo 7

Compressor and Generator Bracket Installation (Cont.)

10. Install the front bracket onto the 5/16-18 x 1 ¼" hex bolt on the generator assembly and secure it with a 5/16-18 locknut (See Photo 8, below).
11. Using thread sealer, secure the front bracket to the water pump with a 5/16-18 x 5 ½" hex bolt and 5/16" flat washer as shown in Photo 8, below
12. Temporarily install a 5/16-18 x 4 ½" hex bolt, 5/16" flat washer, and a .750" OD x .406" ID x 1.750" length spacer to align everything while tightening the rear and front bracket bolts (See Photo 8, below).

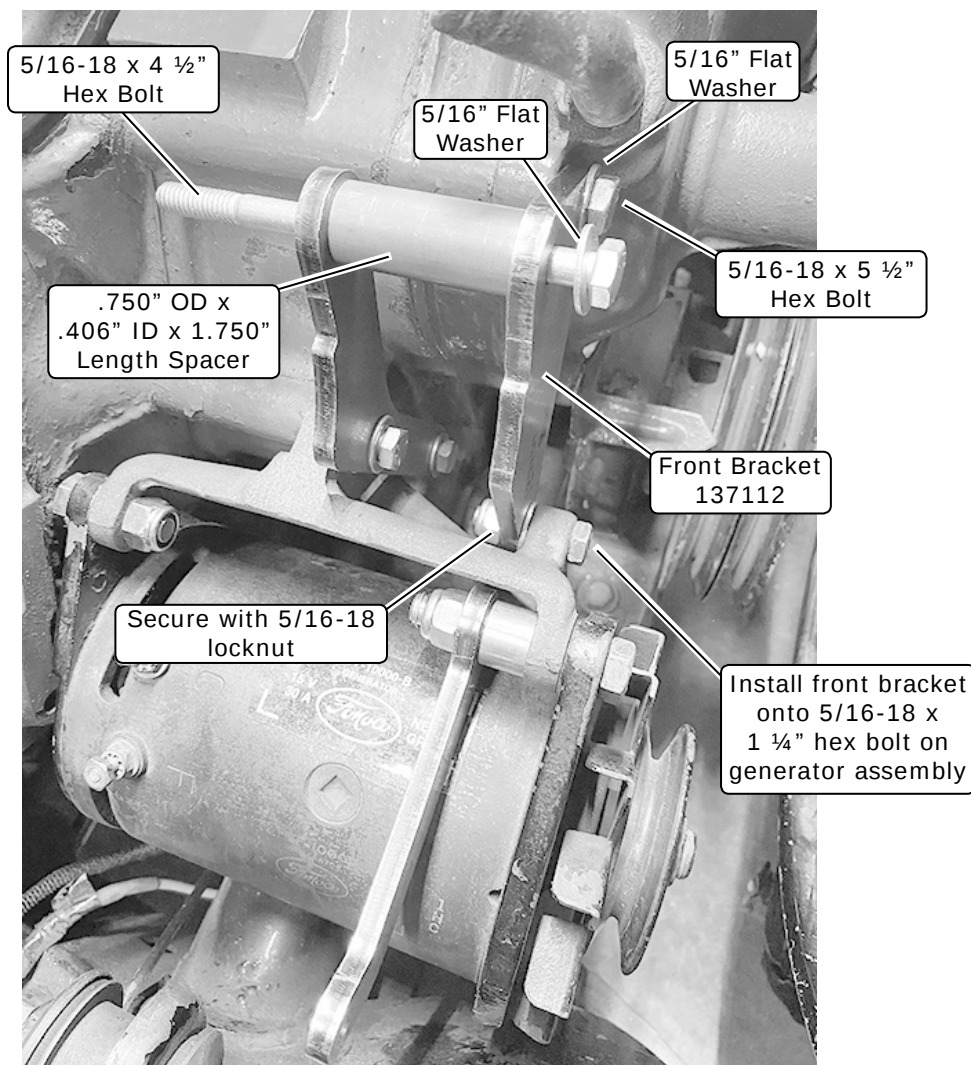


Photo 8

Compressor and Generator Bracket Installation (Cont.)

13. Remove the 5/16-18 x 4 1/2" hex bolt and 5/16" flat washer that were temporarily installed, then install the compressor as shown in Photo 9, below. Install the 5/16-18 x 4 1/2" hex bolt and 5/16" flat washer, then secure it with a 5/16-18 locknut as shown in Photo 10, below.
14. Install a 5/16-18 x 4 1/2" hex bolt through the 5/16" flat washer, compressor, arm bracket and a .750" OD x .406" ID x 2" length spacer (See Photo 10, below). Secure with a 5/16-18 locknut as shown in Photo 10, below.

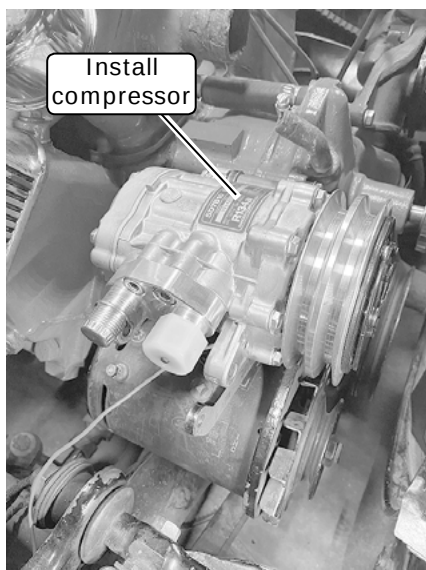


Photo 9

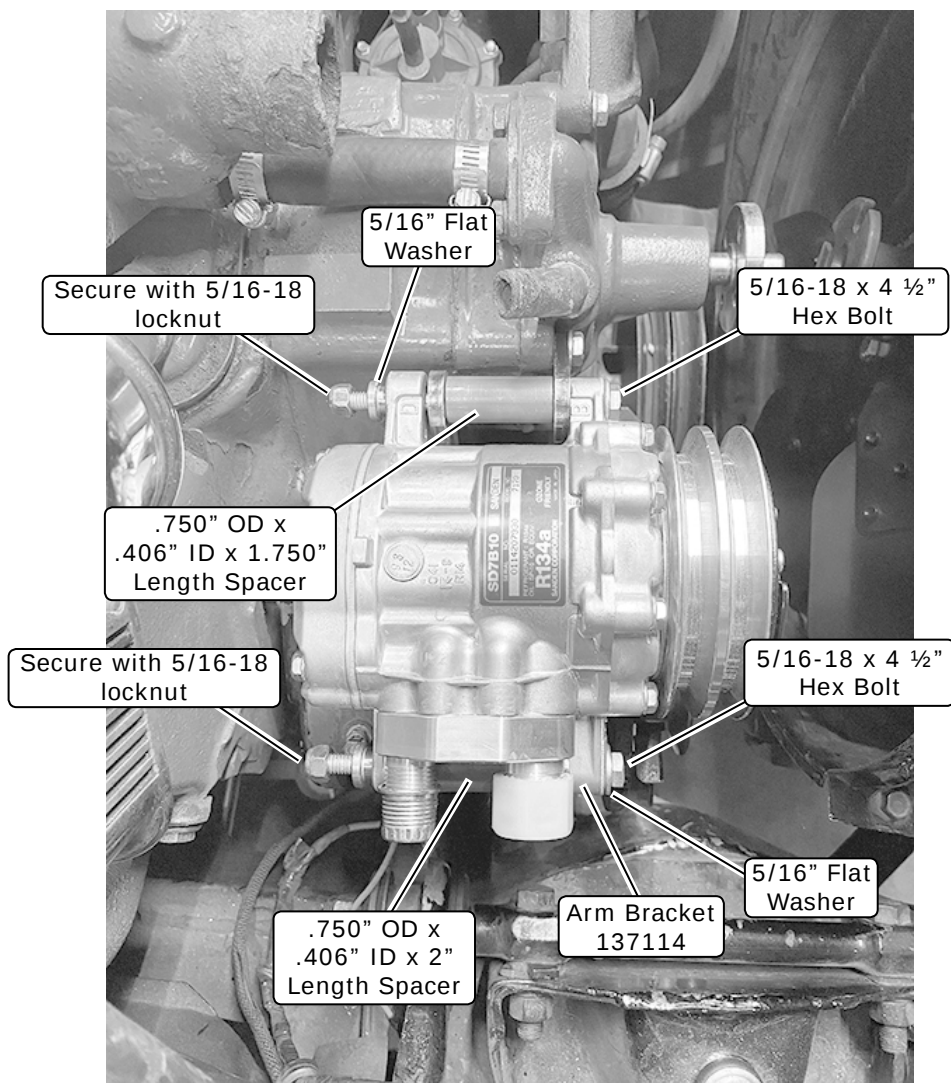


Photo 10

Compressor and Generator Bracket Installation (Final)

15. Install the fan, pulley and power steering belt (if equipped). Measure and install the belt compressor/generator belt (See Photo 11, below). **NOTE: A Gates XL 9463 belt was used.**
16. Tension the belt using the generator, then tighten both bolts on the generator and both bolts on the tensioning arm (See Photo 11, below).
16. Reconnect the wiring to the generator.

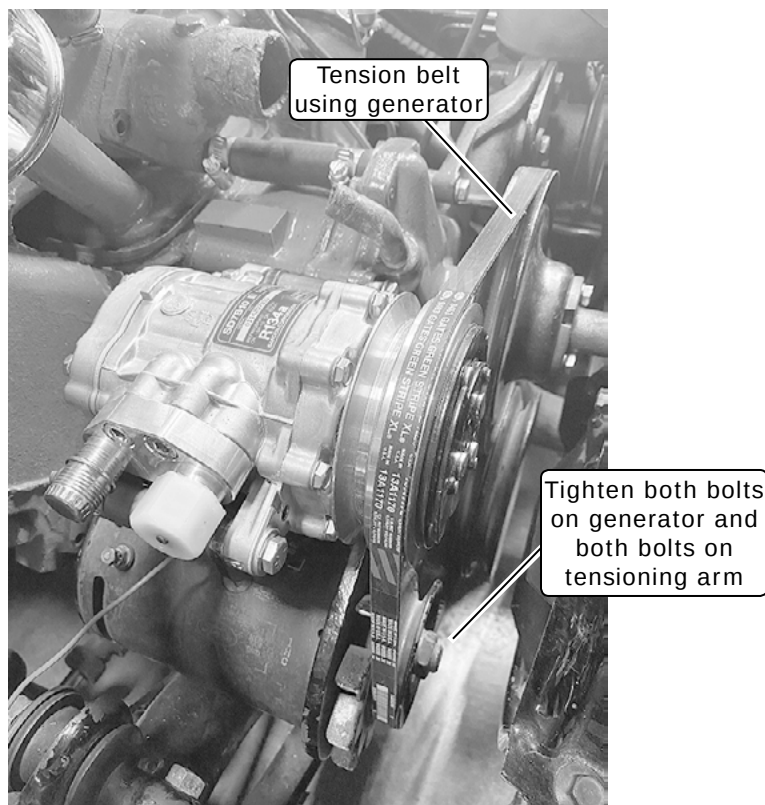
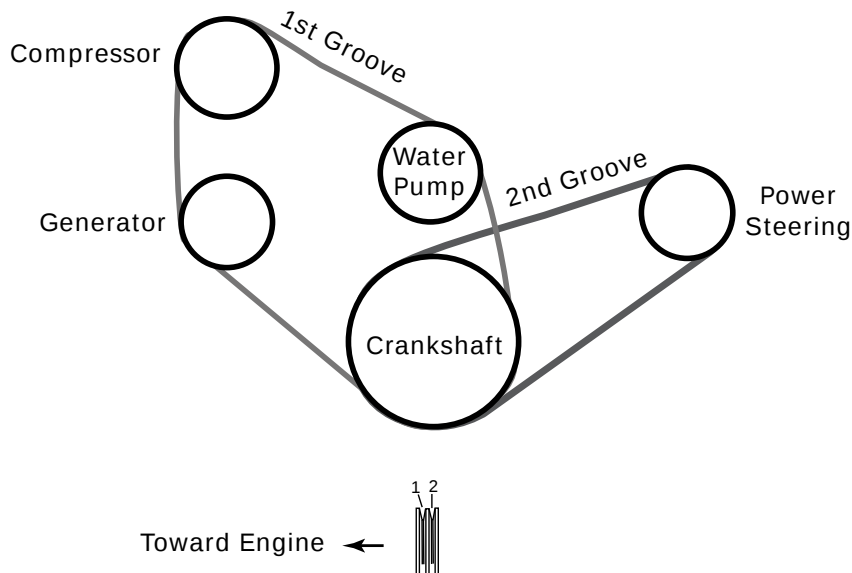


Photo 11

Belt Routing Diagram

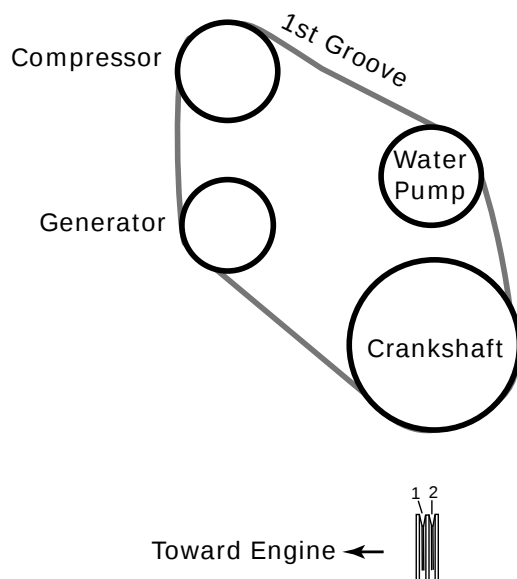
with Power Steering



Crankshaft Pulley Grooves:

1. Crankshaft, Water Pump, Compressor & Generator
2. Crankshaft & Power Steering

without Power Steering



Crankshaft Pulley Grooves:

1. Crankshaft, Water Pump, Compressor & Generator
2. Unused



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Packing List: Bracket Kit (137110)

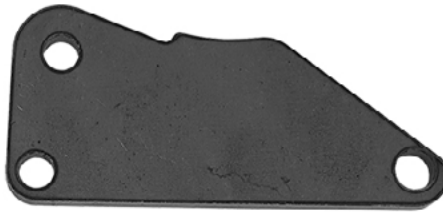
No.	Qty.	Part No.	Description
1.	1	137111	Bracket, Rear
2.	1	137112	Bracket, Front
3.	1	137113	Bracket, Spacer
4.	1	137114	Bracket, Arm
5.	1	191127	Hardware Kit

Checked By: _____
Packed By: _____
Date: _____

1



2



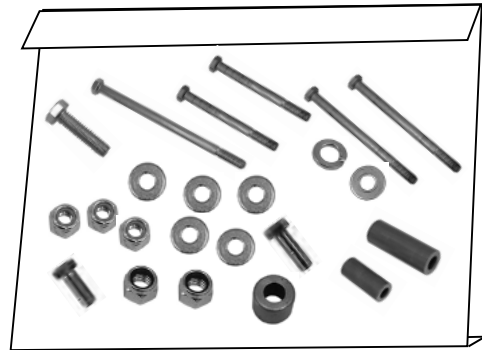
3



4



5



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

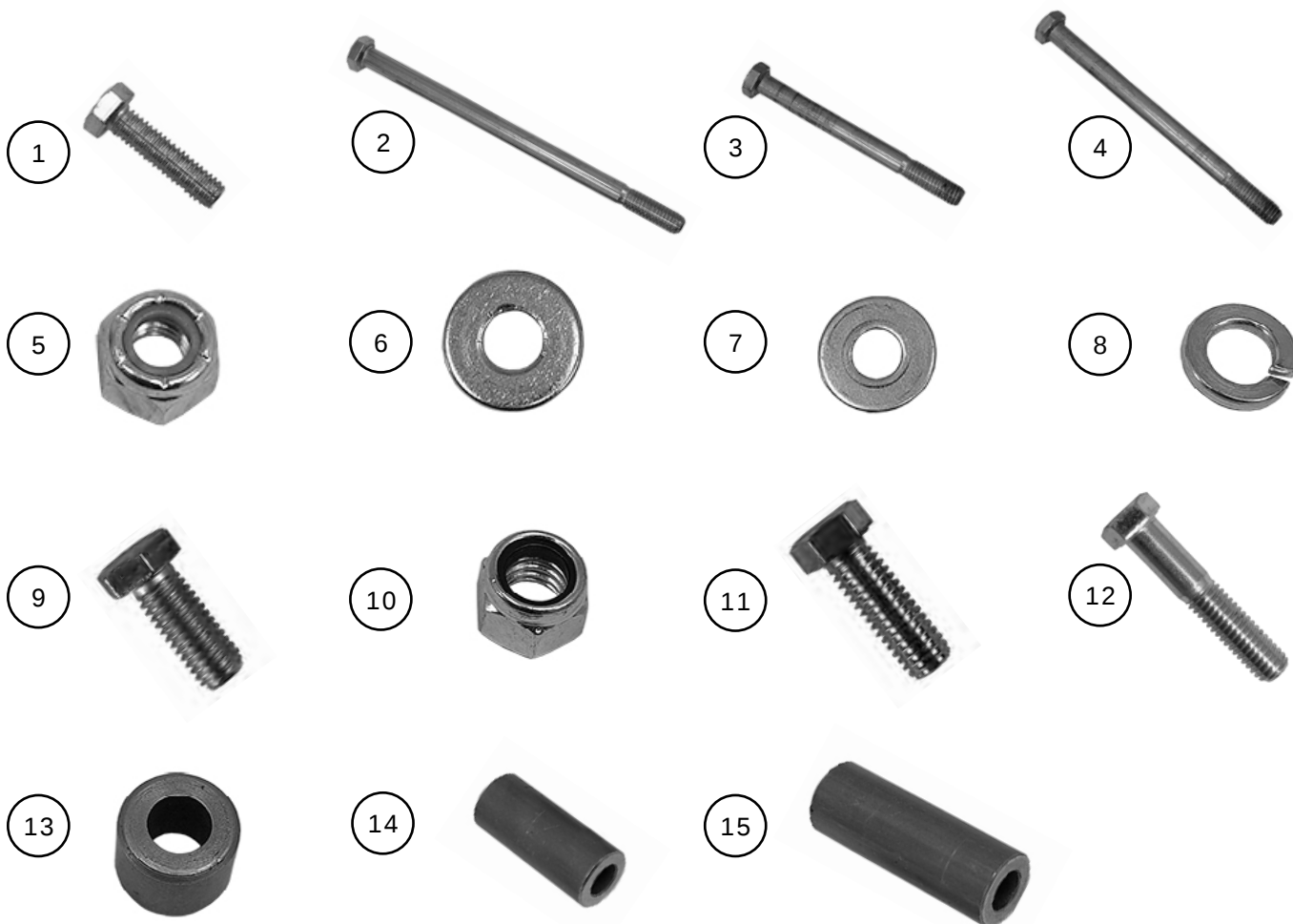


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Packing List: 1955-57 Ford Thunderbird Y-Block Compressor/Generator Bracket Hardware Kit (191127)

No.	Qty.	Part No.	Description
1.	1	183009-DSR	Bolt, 5/16-18 x 1 1/4", Hex
2.	1	183179	Bolt, 5/16-18 x 5 1/2", Hex
3.	2	181553	Bolt, 5/16-18 x 3 1/2", Hex
4.	2	183180	Bolt, 5/16-18 x 4 1/2", Hex
5.	3	18151-VUB	Locknut, 5/16-18
6.	5	18611-VUB	Washer, 5/16", Flat
7.	1	18029-VUB	Washer, 3/8", Flat
8.	1	18030-VUB	Lock Washer, 3/8"
9.	1	18359-VUB	Bolt, 3/8-16 x 1", Hex
10.	2	181561	Locknut, 7/16-14, Hex
11.	1	18424-VUB	Bolt, 7/16-14 x 1 1/4", Hex
12.	1	181557	Bolt, 7/16-14 x 2 1/4", Hex
13.	1	180165	Spacer, .750" OD x .469" ID x 0.625" Length
14.	1	182144	Spacer, .750" OD x .406" ID x 1.750" Length
15.	1	18024-VUB	Spacer, .750" OD x .406" ID x 2.000" Length

Checked By: _____
Packed By: _____
Date: _____



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