

Source: Leece-Neville Heavy Duty Systems Division - Arcade, NY USA
Date: JULY 7, 2017
Bulletin No: TSB-1142
Models: AVI160T2002-3 / Mounting Kit: K069105628S
Subject: Vehicle installation instructions

This technical document has been created to advise one of proper parts and procedures to replace the original alternator on International City Star and Ford LCF vehicles with a higher 230 amp Leece Neville AVI160T alternator.

Parts needed:

Qty 1, Install kit: K069105628S Fig 1
(Furnished with AVI160T2002-3 alternator)
Qty 1, Belt (w/o AC International Truck# 1893843C1)
(w AC International Truck# 1893842C1)
Qty 1, Cable upgrade kit: International Truck# 2603824C91

Optional:

Qty 1, Alternator Pulley: International Truck# 3875973C1

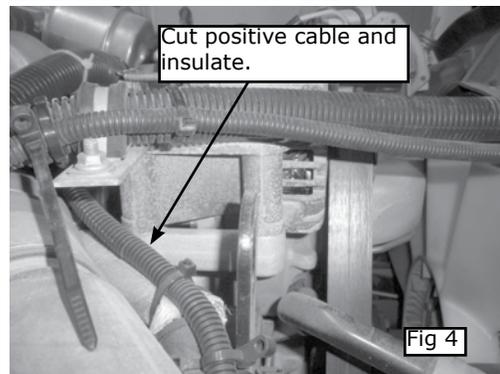
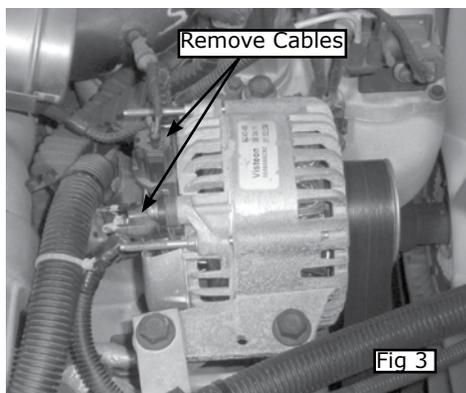
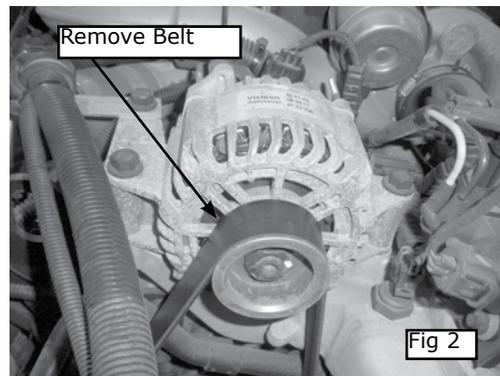


Fig 1

- 1) Disconnect vehicle batteries.
- 2) Remove belt from alternator. Fig 2
- 3) Remove cables from alternator. Fig 3
- 4) Cut off existing ring terminal from alternator positive cable and insulate to prevent shorting. Fig 4

Note: To properly insulate this cable it is recommended that heat shrink tubing be applied.

Note: By increasing the size of the alternator, utilizing the existing cables is not recommended. Purchase cable upgrade kit from International Truck, part number 2603824C91.



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5) Remove alternator.

6) Remove pulley from alternator.

7) Install pulley on AVI160T alternator. Fig 5

Torque nut to 85 +/- 15 NM.

Note: Install spacer furnished in kit between alternator and pulley before tightening.

If replacement pulley is needed, one can be obtained through International Truck. Part number: 3875973C1

8) Place alternator onto mounting of engine and inspect for clearance issues, ensuring alternator rests flush onto mounting surface.

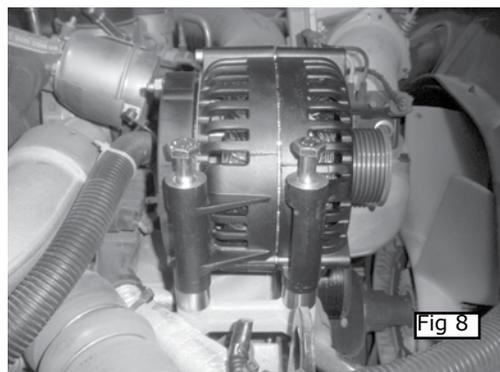
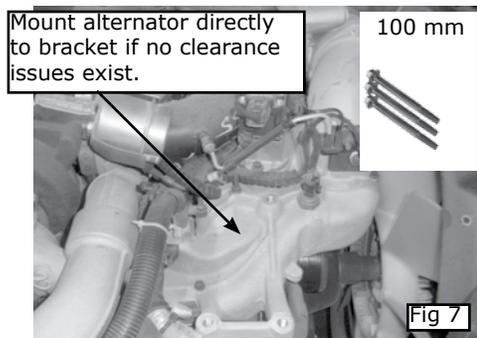
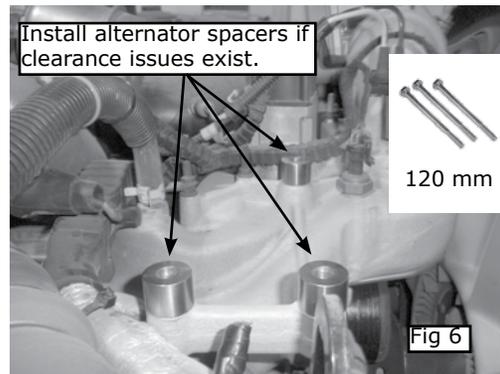
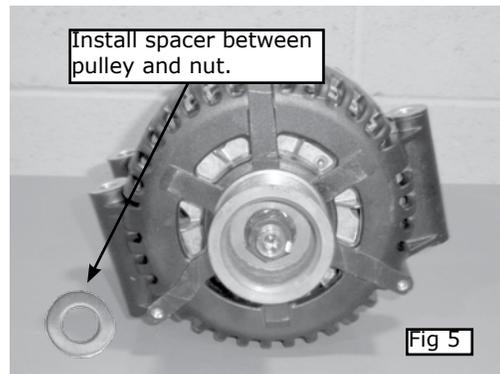
If alternator mounting pads do not rest flush onto mounting surface then supplied spacers and longer mounting bolts will need to be used. Fig 6

Note: Vehicles 2007 and newer will need to use the supplied spacers and longer mounting bolts.

If alternator mounting pads rest flush onto mounting surface, mount alternator directly to engine bracket and utilize the shorter mounting bolts furnished with kit. Fig 7

Note: Depending on era of vehicle, spacers may or may not be needed.

9) Install alternator and insert mounting bolts furnished with kit. Do not tighten. Fig 8



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10) Install cable upgrade kit from alternator to batteries.

Note: Route cables to avoid pinch points and abrasions.

11) Attach cables and cable support bracket to alternator. Tighten mounting bolts. Fig 9

Torques:

Alternator positive post: 6 +/- 1.5 NM
Alternator mounting bolts: 61-68 NM

12) Install belt.

Use belt routing guide as reference. Fig 10

Note: If alternator spacers are used (Step 8), original belt is not long enough and a longer belt will need to be purchased.
Use International Truck # 1893843C1 vehicles w/o AC.
Use International Truck # 1893842C1 vehicles w AC.

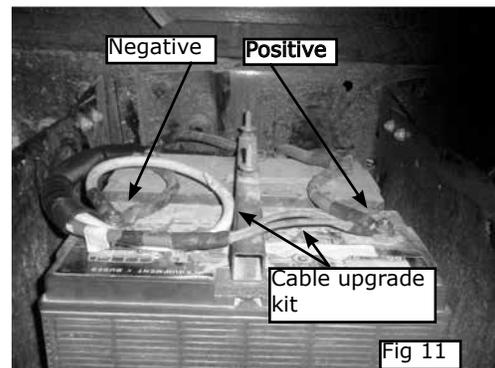
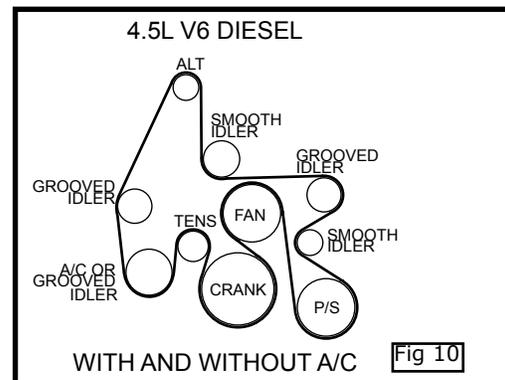
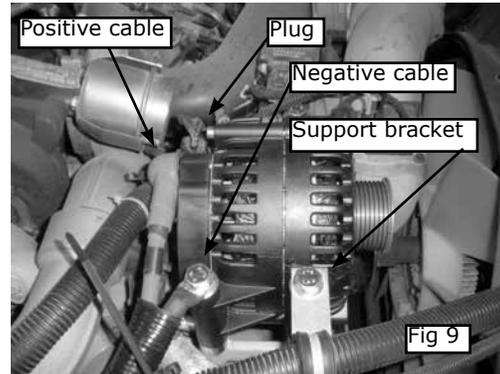
If no spacers are used (Step 8), then the original belt can be utilized.

13) Connect batteries. Fig 11

Note: Do not reverse polarity; damage to the alternator will be the result.

14) Test charging system.

15) Install complete.



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