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## NMK20SD508-I6

2013-2021 Nissan NV200 Van

2015-2018 Chevrolet City Express Van

2.0L I4 Gas Engine

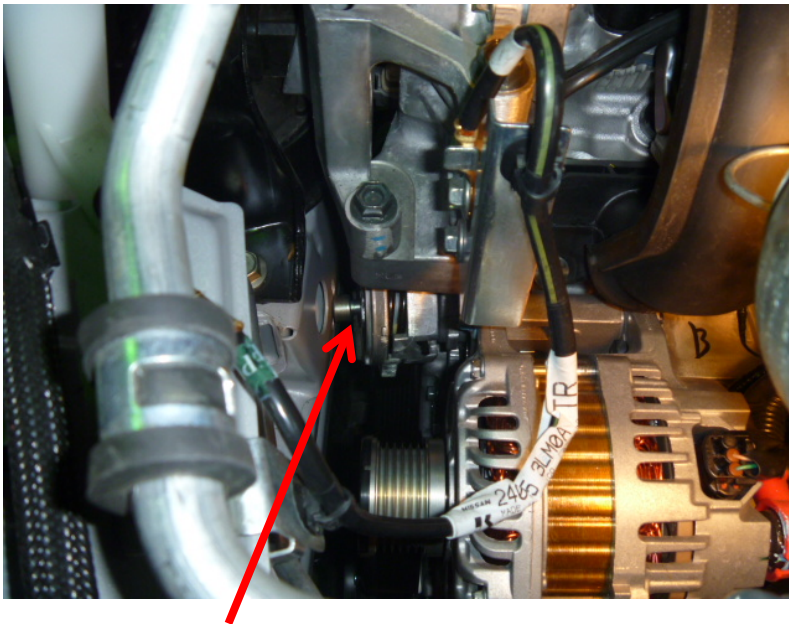
For use with AC / Requires 6 Groove Clutch

Requires the Purchase Of Gear Wrench Part #85035 for the Removal of the Tensioner Bolt.

Remove O.E.M. serpentine belt.

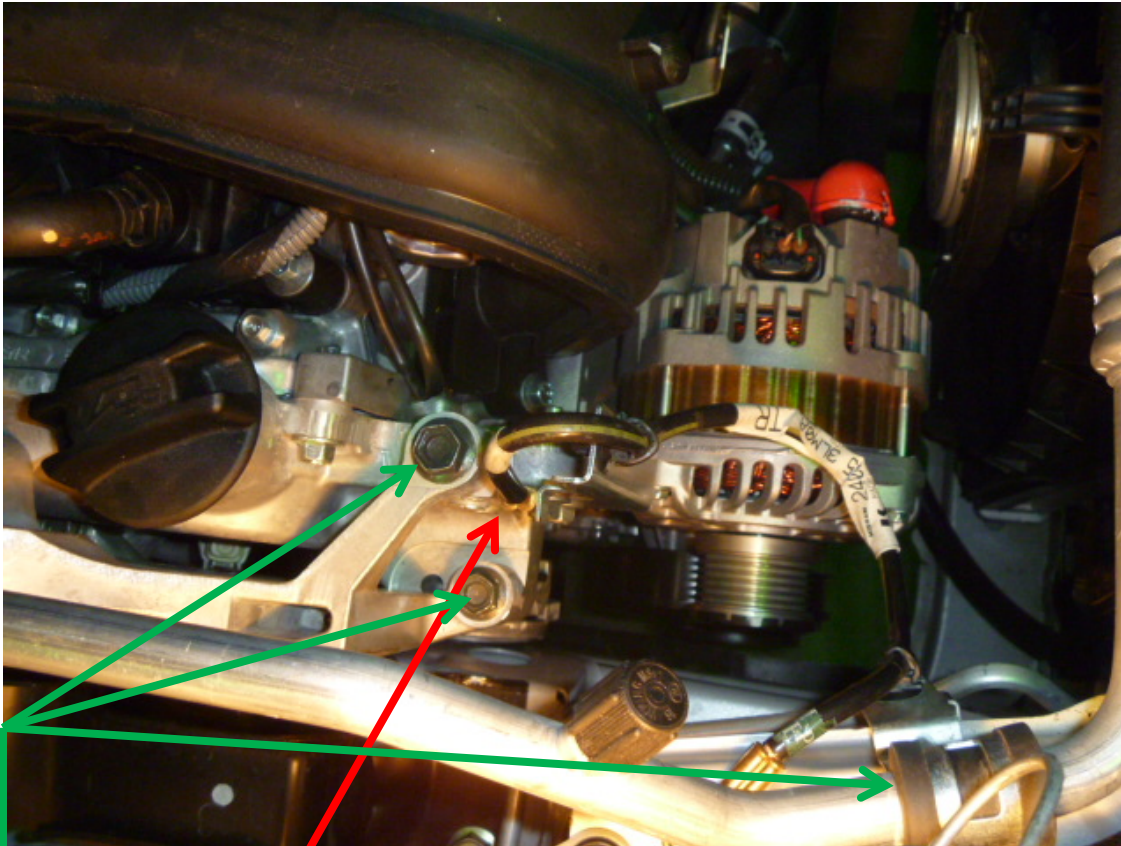


Use Gearwrench part number 85035 to remove tensioner by shortening the T50 driver bit to approximately 5/8" as shown above. It may be necessary to use a cheater pipe to get it loose. Don't unscrew the bolt enough to where the tool can't be removed. Use the tips of your fingers to unscrew the rest of the way.



Once bolt is unscrewed, pull bolt head out to the frame of the van while pushing the tensioner up against its mounting location as shown above. Use a pneumatic reciprocating saw to cut the bolt as close to the tensioner as possible (it may be necessary to use a carbide edged reciprocating or sawzall blade). Once this is done, the tensioner should be able to be removed.

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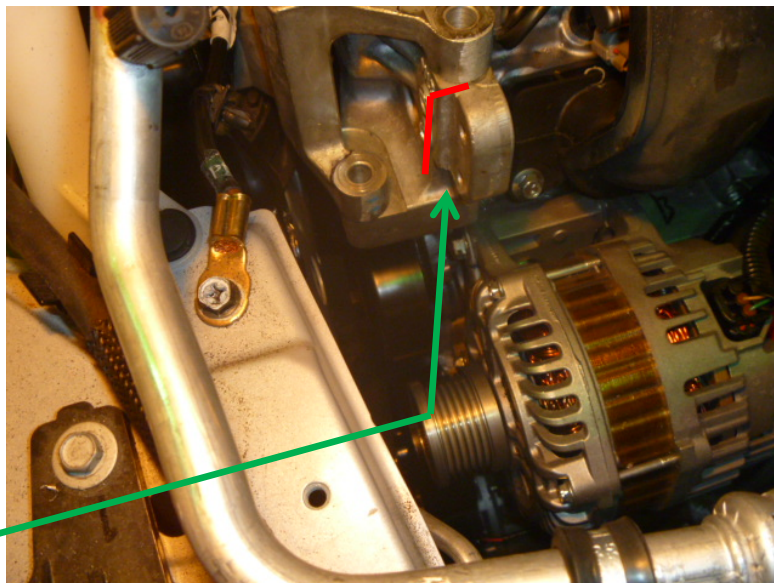


Remove this end of ground cable and remove from clamps. Loosen opposite end of cable so that the ground cable can be installed on the upper left hand side of the timing cover. Remove that timing cover bolt and install the ground clamp reusing the bolt. Tighten both ground clamp bolts.

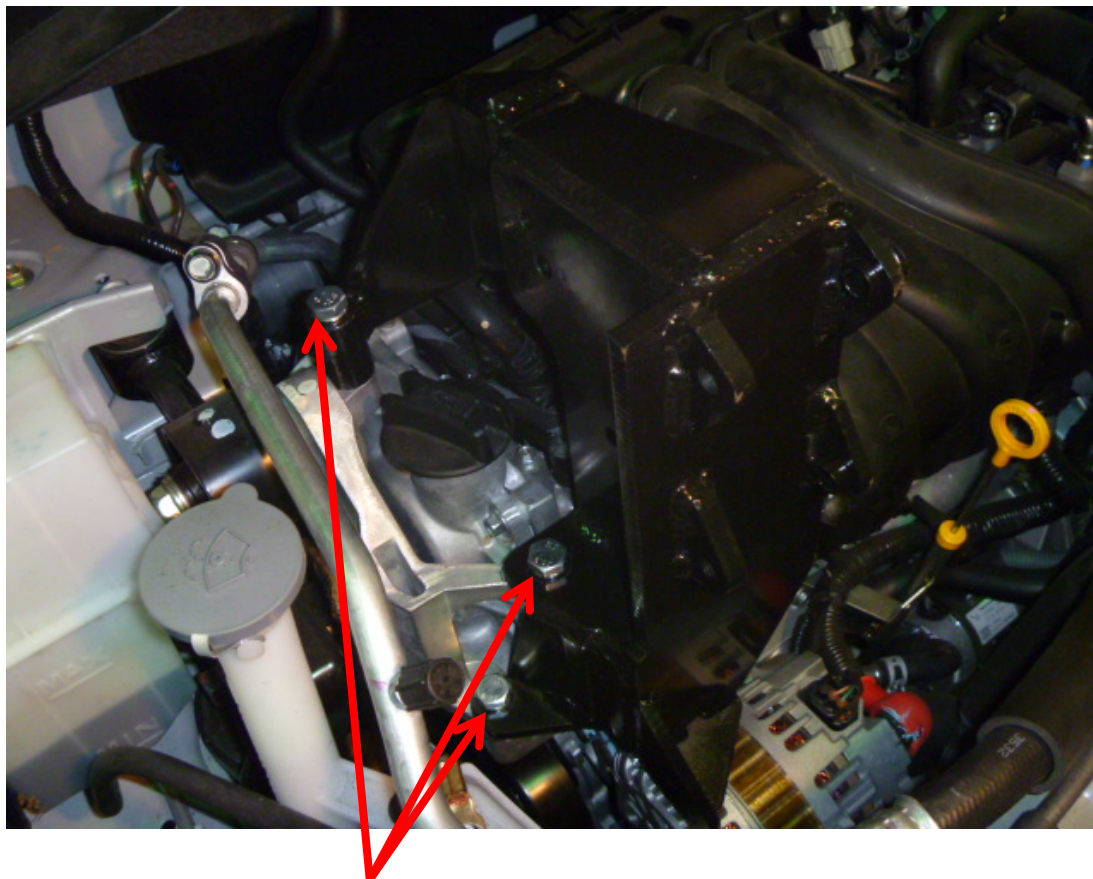
Install the lower idler mount (6) to O.E.M. tensioner location using the bolt (7) making sure the to line up the alignment pin in the locating hole for the tensioner. Install one of the flat idlers (13) using bolt (5). Support the weight of the engine using a jack underneath the passenger side corner of the oil pan. Do not apply too much pressure, or oil pan damage can occur.

Remove this air conditioner line clamp and the three motor mount bolts (one not shown).

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Cut off this boss approximately along the line shown using a sawzall or other suitable tool. Cover the alternator with a rag before cutting to keep shavings out of the alternator.



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Install main bracket using bolts (2), lock washers (3) and bolt (4). Finger tight all bolts before torquing. Once bolts are tightened the jack can be removed.



Install one of the flat idlers (13) with short bushing (14) and bolt (7) to lower mount on main bracket. Install the idler with shoulders on both sides (15) with long bushing (16) and bolt (4) to upper idler mount on main bracket. Install tensioner (11) to main bracket using nut (12). After moving the factory air conditioner line out of the way, install aux. air conditioner compressor using bolts (7,20), nuts (12) and slide bushings (21).

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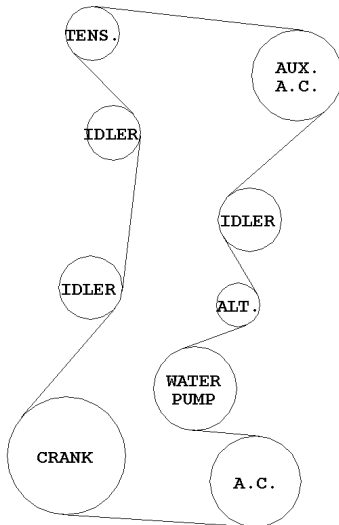
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Secure the O.E.M. air conditioner line to upper radiator support with bracket (8) using bolts (9,18), lock washers (10,19), and wire loom clamp (17) as shown above.

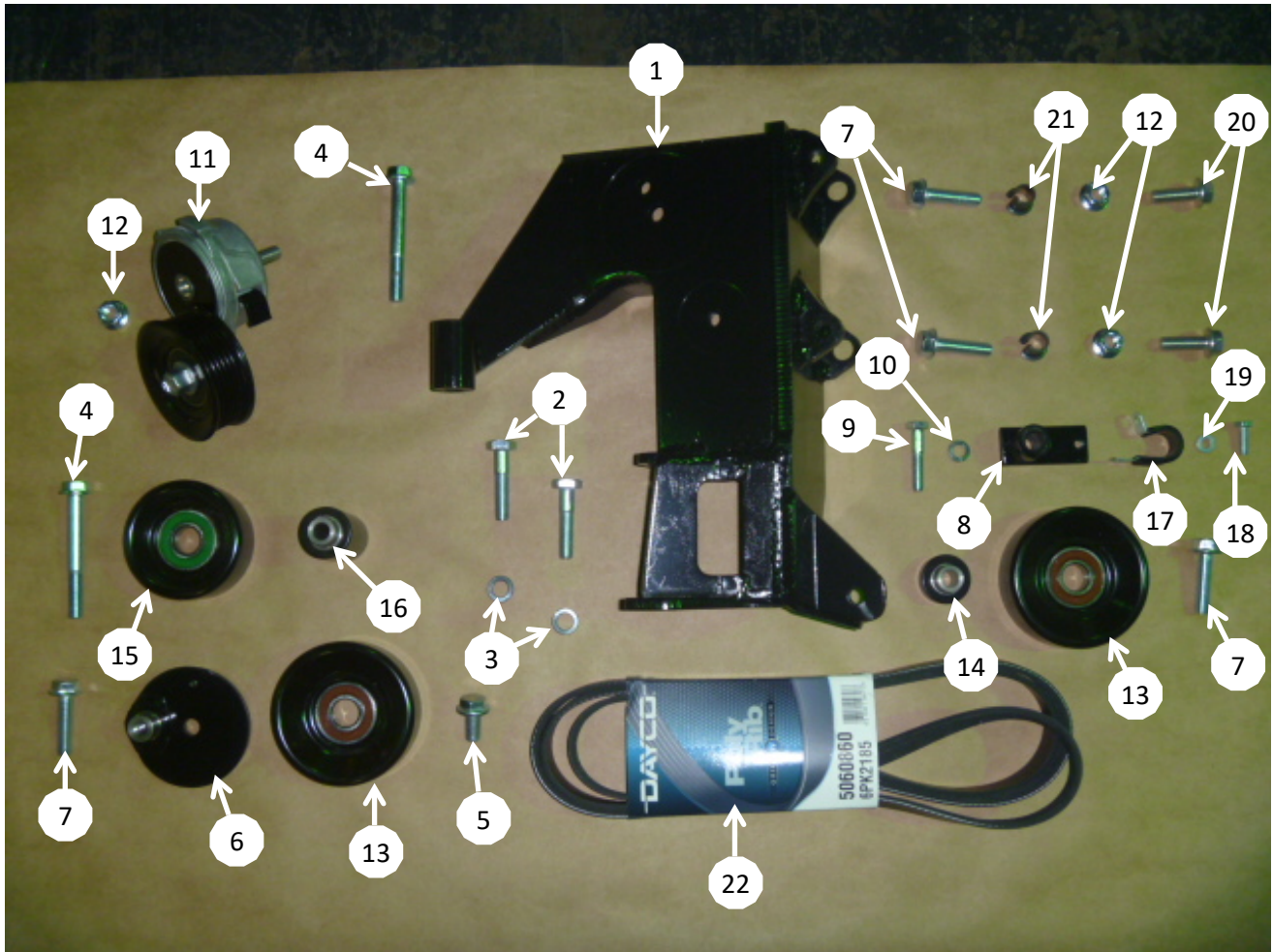
Install new belt (22) according to the belt diagram.



2/2/2021

Disclaimer: (1.) Due to the custom nature and variation of all add-on systems of this type, no complete system kits are offered by the manufacturer, and any group of parts marketed as a kit is limited to only the individually defined parts in that specific kit. The system designer's rotating accessory components are not included, offered, or fully known by the manufacturer. In addition to the absence of the rotating accessory system, other potential components such as additional clamps, brackets, wear liners, hardware, or other items that may be required by the system designer must be identified and supplied by the actual system designer. (2.) Due to vehicle manufacturer's assembly tolerances, production changes, and installation variances, it is the buyer's responsibility to insure adequate clearance for all components including space for and safe location of the fan, radiator, all lines, and wires. Check for possible movement, vibration, friction points, heat exposure and/or shifting of any and all components such as hoses, wires, and all other components including those that may otherwise be considered non-moving and/or unaffected by the installation (3.) The buyer is responsible for the entire installation of a mounting kit as the mounting kit is part of a custom process controlled by the buyer through their whole system design and directed installer as the installer evaluates, locates, routes, aligns, and tightens all components while determining if additional clamps, brackets, wear-liners, or other components may be required, beyond those included in the kit. Any additional items required, beyond those included in the kit, are to be provided at the expense of the buyer. (4.) The buyer is responsible for the development and communication of their whole system installation procedures, safety precautions, application, and use of the engine accessory mounting kit in their system, including efforts to maintain vehicle control and prevent pinch, wear, impact, and/or burn exposure on all hoses, wires, and other parts. (5.) The buyer is responsible for providing trained and experienced installation decision making with technical know-how to apply professional judgment that specifically applies to each individual installation. The buyers chosen installers must be qualified and experienced technicians that are familiar with the vehicle and accessory being mounted as well as the buyer's whole system design and installation procedures associated with the kit. (6.) The buyer is responsible for determining and achieving compliance to all regulatory issues that apply to the use of all products. (7.) The manufacturer reserves the right to make changes and/or improvements to any product at any time with or without notice.

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## PARTS LIST

- |                             |                                  |
|-----------------------------|----------------------------------|
| 1. NMP20SD508-I6 (1)        | 12. 10mm Flange Nut (3)          |
| 2. 10mm x 45mm (2)          | 13. 89006 (Flat Idler) (2)       |
| 3. 10mm Lock Washer (2)     | 14. NMB201 (Short Bushing) (1)   |
| 4. 10mm x 80mm Flange (2)   | 15. IPCS-20 (With Shoulders) (1) |
| 5. 10mm x 20mm Flange (2)   | 16. NMB202 (Long Bushing) (1)    |
| 6. NMB204 (1)               | 17. #10 Wire Loom Clamp (1)      |
| 7. 10mm x 40mm Flange (4)   | 18. 1/4" x 3/4" (1)              |
| 8. NMB206 (1)               | 19. 1/4" Lock Washer (1)         |
| 9. 8mm x 40mm (1)           | 20. 10mm x 30mm Flange (2)       |
| 10. 8mm Lock Washer (1)     | 21. 1255-0090 Slide Bushing (2)  |
| 11. 89251-051 Tensioner (1) | 22. 5060860 Belt (1)             |