

NOTE: MUST USE SIDE PORTED PUMP.

INSTALLATION NOTES

1. Disconnect the negative battery cable. Remove the three bolts holding the fan shroud to the engine braces. Remove the four nuts from the fan clutch and remove the fan and fan clutch assembly from the engine. Loosen the alt. belt and A/C belt if equipped. Remove the fan clutch mounting plate from the water pump.
(Do not remove the pulley).
2. Remove the four bolts holding the crank pulley on the crankshaft.
(It may be necessary to use an impact to remove the bolts). Clean any dirt or rust from the inside of the OEM pulley. Install the drive pulley (1) and spacer (1a) using four 16mm bolts (2) and lock washers (3). Tighten securely. Install the aluminum fan spacer (4) and the OEM fan clutch adapter onto the water pump using bolts (5) and lock washers (6).
3. Before the pump bracket can be installed a boss on the front of the engine block (approx. 1") must be removed. This can be done using a hacksaw etc. (See illustration)
4. Remove the lower alternator bracket. Remove the front two motor mount bolts. Install the pump mounting bracket (7) and spacer (8) onto the engine block at that location using bolts (10) and lock washers (9). Install new lower alternator bracket (11) using O.E.M. hardware. Install the alternator on the new bracket (11) using the O.E.M. bolt and nut. Install the pump and pump spacer onto the bracket and align it with the drive pulley, tighten. Install the tensioner (12) with bolt (13). Install the O.E.M. belt(s). Install the pump belt (19) and tension.
5. Install the fan onto the water pump with the four OEM nuts. Using the 1/2 spacers, move the fan shroud ahead and hold in place with bolts provided. **NOTE:** The fan shroud brace on the lower passenger side will need to be removed and a nylon strap is used to hold it in place. Connect the negative battery cable. Check for clearance on all hoses, wires, etc.

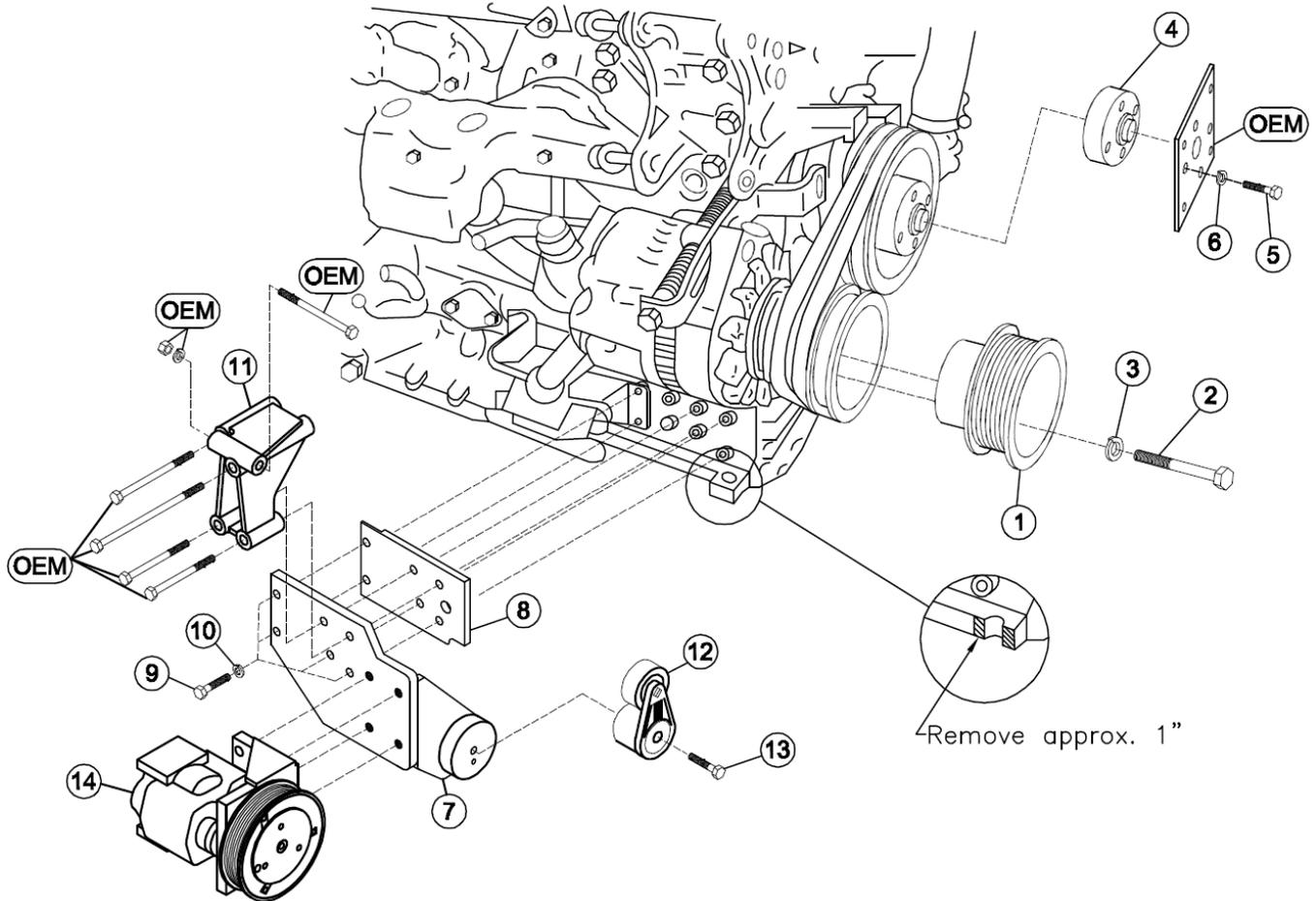
SMK 230-8

2011-2017 Isuzu

NPR-HD/NQR/NRR

5.2L Diesel

W-WO/AC



PARTS LIST

- | | |
|--------------------------|--|
| 1. SPC 2308 (1) | 12. 10mm x 55mm (1) |
| 2. 16mm x 100 mm 1.5 (4) | 13. FMB 2301 (1) |
| 3. 16mm LW (4) | 14. Clutch Pump Assembly (Sold Separately) |
| 4. FSO 4.7 (1) | 15. 8 x 45mm (2) (Not Shown) |
| 5. 8mm x 35mm 10.9 (4) | 16. 8mm FW (2) (Not Shown) |
| 6. 8mm LW (4) | 17. SP64-0.500 (2) (Not Shown) |
| 7. SMP 230-8 (0-4) (1) | 18. Nylon Strap (1) (Not Shown) |
| 8. SPS 33 (1) | 19. Belt w/5-1/2" Clutch (Not Shown) |
| 9. 10mm x 40mm 10.9 (4) | (#2 5080415 With 1/2 Spacer) |
| 10. 10mm LW (4) | (#4 5080415 With 1-1/2 Spacer) |
| 11. 89231-007 (1) | |