



CW MILL EQUIPMENT CO., INC.
P.O. Box 246 • Sabetha, Kansas 66534
(785) 284-3454 • FAX (785) 284-3601

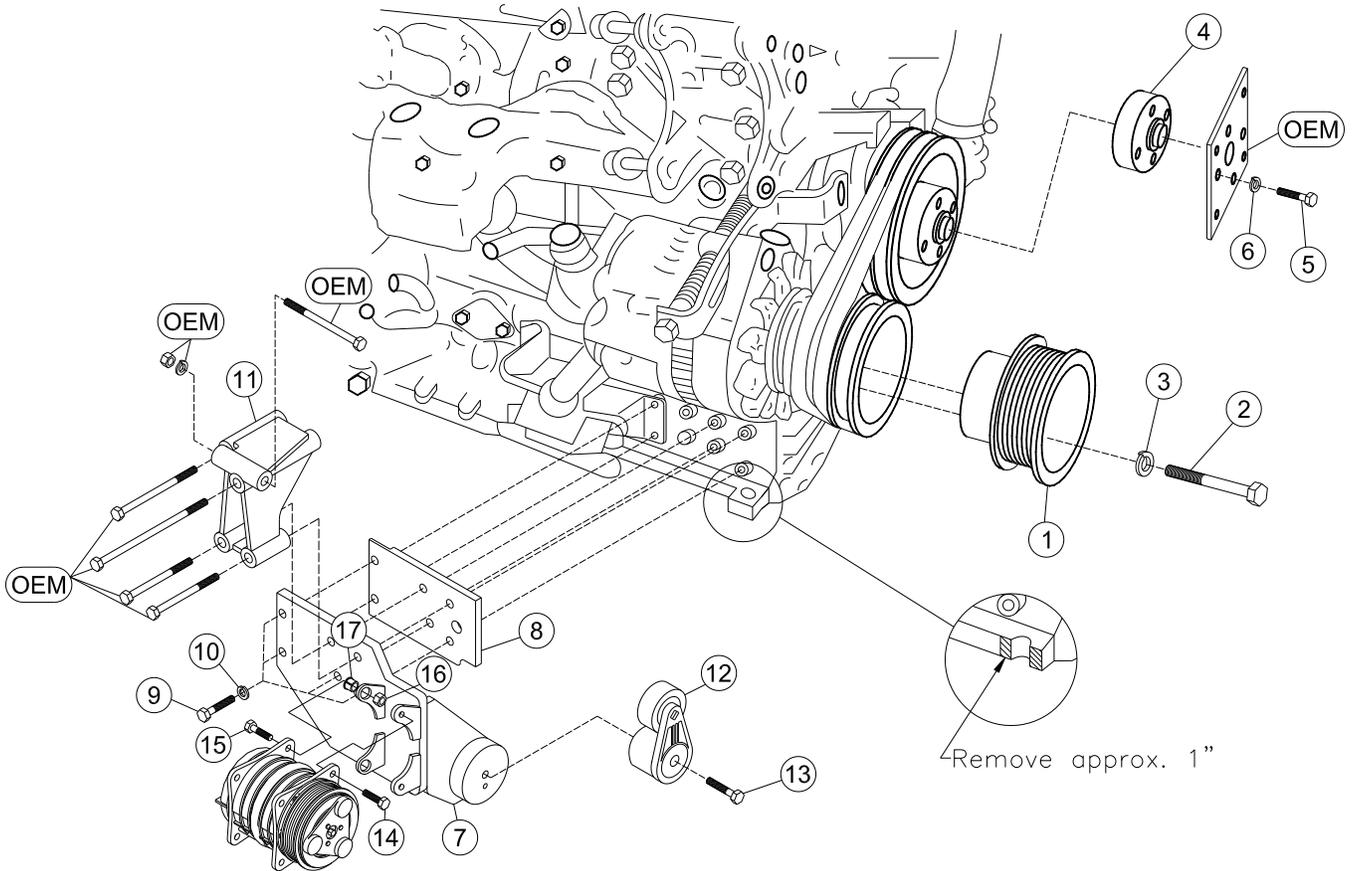
SMK230SD508-8

2011-2017 Isuzu
NPR-HD/NQR/NRR
5.2L Diesel
W-WO/AC

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 alternator. 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) using four 16mm bolts (2) and lockwashers (3). Tighten securely. Install the aluminum fan spacer (4) and the OEM fan clutch adapter onto the water pump using bolts (5) and lockwashers (6).
3. Before the main bracket (7) 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 main bracket (7) and spacer (8) onto the engine block at that location using bolts (10) and lockwashers (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 aux. A.C. compressor onto the bracket (7) using bolts (14,15), nuts (16) and slide bushings (17). Check alignment with drive pulley and install shims included with hardware only if necessary. Install the tensioner (12) with bolt (13). Install the O.E.M. belt(s). Install the pump belt (22) and tension.
5. Install the fan onto the water pump with the four OEM nuts. Using the 1/2 spacers (20), move the fan shroud ahead and hold in place with bolts (18) and flatwashers (19). **NOTE:** The fan shroud brace on the lower passenger side will need to be removed and the nylon strap (21) is used to hold it in place. Connect the negative battery cable. Check for clearance on all hoses, wires, etc.

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PARTS LIST

- | | |
|--------------------------|----------------------------------|
| 1. SPC 2308 (1) | 12. 89231-007 (1) |
| 2. 16mm x 100 mm 1.5 (4) | 13. 10mm x 55mm (1) |
| 3. 16mm LW (4) | 14. 10mm x 30mm Flange (2) |
| 4. FSO 4.7 (1) | 15. 10mm x 40mm Flange (2) |
| 5. 8mm x 35mm 10.9 (4) | 16. 10mm Flange Nut (2) |
| 6. 8mm LW (4) | 17. 1255-0090 (2) |
| 7. SMP 230SD508-8 (1) | 18. 8 x 45mm (2) (Not Shown) |
| 8. SPS 33 (1) | 19. 8mm FW (2) (Not Shown) |
| 9. 10mm x 40mm 10.9 (4) | 20. SP64-0.500 (2) (Not Shown) |
| 10. 10mm LW (4) | 21. Nylon Strap (1) (Not Shown) |
| 11. SMB2301 (1) | 22. Belt 5080400 (1) (Not Shown) |