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**CMK 83SD508-8**  
2003-BUILD DATE 12/03 CHEVY  
C-4500,5500  
6.6 Diesel  
W-WO/AC, W-WO/Dual Alt.

## INSTALLATION NOTES

1. Disconnect negative battery cables from the batteries located underneath the passenger side cab step. Remove the right (passenger) side inner fender. Drain the engine coolant completely. Remove the top half of the fan shroud and remove the fan. (Fan nut has right hand threads). It is advisable to place a piece of cardboard over the radiator to protect it from damage during assembly. Remove the O.E.M. serpentine belt.
2. Remove the bolt holding the harmonic balancer on the crankshaft. It will be necessary to remove the rubber plug from the bottom of the transmission bell housing and use a pry bar or other suitable tool against the flywheel to keep the engine from turning while loosening the balancer bolt. Discard the thick balancer bolt washer and install the bolt into the drive pulley (8). Install the pulley onto the balancer, making sure the pilot is engaged into the balancer hole properly. Tighten the bolt finger tight, then looking from the front of the engine, turn the pulley in a counter clockwise direction until it hits the stop. Torque the balancer bolt to 278ft/lbs. (363 N-M). Install the rubber plug back into the transmission bell housing.
3. Remove the lower radiator hose at the radiator. Cut approximately 3 to 3 1/2" from the hose and install it back onto the radiator, reuse the OEM clamp.
4. If the vehicle has an automatic transmission, remove the two transmission coolant lines from the radiator and move them aside. A small amount of transmission fluid will run out of the cooler.
5. Remove the two bolts at locations "A & B" from the tensioner bracket, and the rear motor mount bolt at locations "C". Install the bracket onto the engine with bolt (4) and lockwasher (5) at location "A", bolt (4a), with NO lockwasher, at locaton "B", and bolt (6) with lockwasher (7) at location "C". Tighten all three bolts evenly, then torque bolts (4) to 40 ft/lbs., and bolt (6) to 75 ft/lbs..
6. Install the aux. A.C. compressor onto the bracket with bolts (19,20), nuts (21) and slide bushings (22). Install the tensioner (2) onto the bracket with bolt (3). It may be necessary to trim the fan shroud slightly to clear the tensioner. Replace the O.E.M. serpentine belt, then install the A.C. drive belt. Install the fan spacer, fan and fan shroud. (Be sure to remove the cardboard from the radiator if it was used).
7. **AUTOMATICS ONLY:** If equipped with an automatic transmission, the coolant hoses will need to be cut and rerouted to clear the hydraulic pump. Using a tubing cutter (not a hacksaw), cut the lower coolant tube approximately 3 inches from the radiator and install the compression fitting with hose barb adapter supplied in the kit. Install the 4 ft. piece of 5/8 oil hose and route it around the pump to a suitable location to connect it to the other end of the coolant line. Cut the steel tube at that location and install the compression with the hose barb. Connect the hose and secure it with the lomb claps provided. Cut the upper coolant hose approx. 3 inches from the 90° bend after it turns down. Install the compression fitting and hose barb. Install the 5/8 oil hose and run it down under the frame rail. Cut the transmission coolant hose under the radiator and connect the two ends together with the double ended hose barb provided in the kit. Secure the hose with the lomb claps provided.
8. Replace the engine coolant, and top off the transmission fluid if needed. Check for any leaks after the fluids have been replaced. Run the engine and check for proper clearances to moving parts and correct belt tracking.

**CAUTION:** Check all engine compartment hoses that may have been disturbed or rerouted during kit installation to be sure hoses are not kinked, that they do not touch any high temperature item, and that they do not touch any moving components.

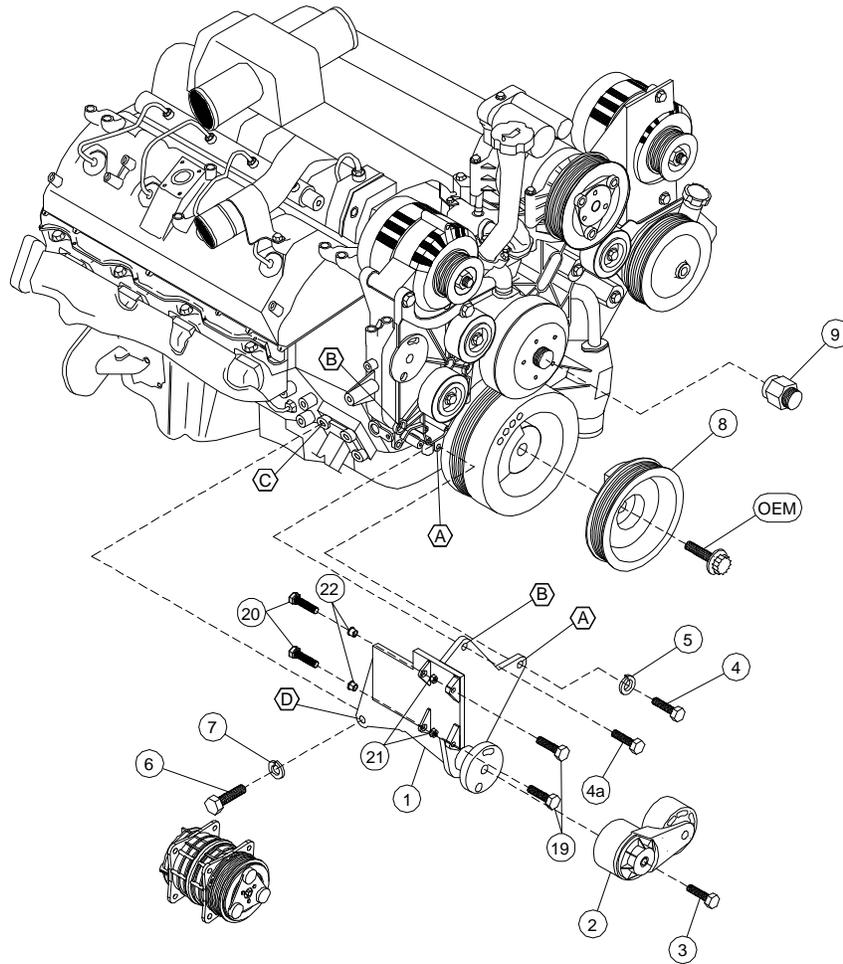
**NOTE:** This kis is designed to operate successfully with the standard fan supplied by the manufacturer of your truck. Due to O.E.M. assembly tolerances and change, visually make certain that there is adequate clearance between fan and drive pulley and fan to radiator. It may be necessary to use a different spacer for clearance.

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## PARTS LIST

- |  |                                    |
|--|------------------------------------|
| 1. CMP83SD508-8 (1)                      | 11. 5080525 Dayco                  |
| 2. Tensioner, Dayco 89200-B (1)          | 12. 5/8 Hose Barb to JIC (3)       |
| 3. 10mm X 80mm 1.5 (1)                   | 13. 5/8 Compression sleeve (3)     |
| 4. 10mm X 100mm 1.5 (1)                  | 14. 5/8 Compression Nut (3)        |
| 4a. 10mm X 90mm 1.5 (1)                  | 15. 5/8 Double Ended Hose Barb (1) |
| 5. 10mm LW (1)                           | 16. #14 Adel Clamps (5)            |
| 6. 12mm X 80mm 1.5 (1)                   | 17. #10 Hose Clamps (5)            |
| 7. 12mm LW (1)                           | 18. 7' 5/8 Oil Hose (1)            |
| 8. CPC 668 (1)                           | 19. 10mm x 30mm Flange (2)         |
| 9. FSK 6.8 (1)                           | 20. 10mm x 40mm Flange (2)         |
| 10. A.C. Compressor<br>(Sold Separately) | 21. 10mm Flange Nut (2)            |
|  | 22. 1255-0090 Slide Bushing (2)    |