



Muncie[®]
Power
Products

CMKF80-3000-A-AC 80-82
CMKF83-3000-A-AC 83-86
CMKF87-3000-A-AC 87-92
CMKF93-3000-A-AC 93-94
Ford Truck F-150,250,350
300 I-6 (4.9L) W-WO/AC

INSTALLATION NOTES

1. Disconnect battery terminal. Remove fan. Note: 83-86 models use left hand threads on fan, 87-94 models have right hand threads.
2. Remove bolt and washer from center of crankshaft pulley. Install steel drive pulley (1) with provided bolts, discard O.E.M. washer. **CAUTION:** Be sure threads are the same as removed O.E.M. bolt.
3. **On 80-86 models:** remove nuts from studs at locations "A & D". Replace with spacer nuts (13), do not use lockwashers. Remove bolts at locations "B & C". Using spacers and bolts described for each location, install bracket (7) to engine; "A" - 1 ea. (12,15,16), "B" - 1 ea. (9,12,14,16), "C" - 1 ea. (15,16).

On 87-93 models: thread spacer nuts (13) over O.E.M. nuts on studs at locations "A & C". Remove bolts at locations "B & D". Use bolts (15) at locations "A & C". At locations "B & D", use spacers (9) and either (10 or 11), depending on length of O.E.M. nuts on studs "A & C", with bolts (14).

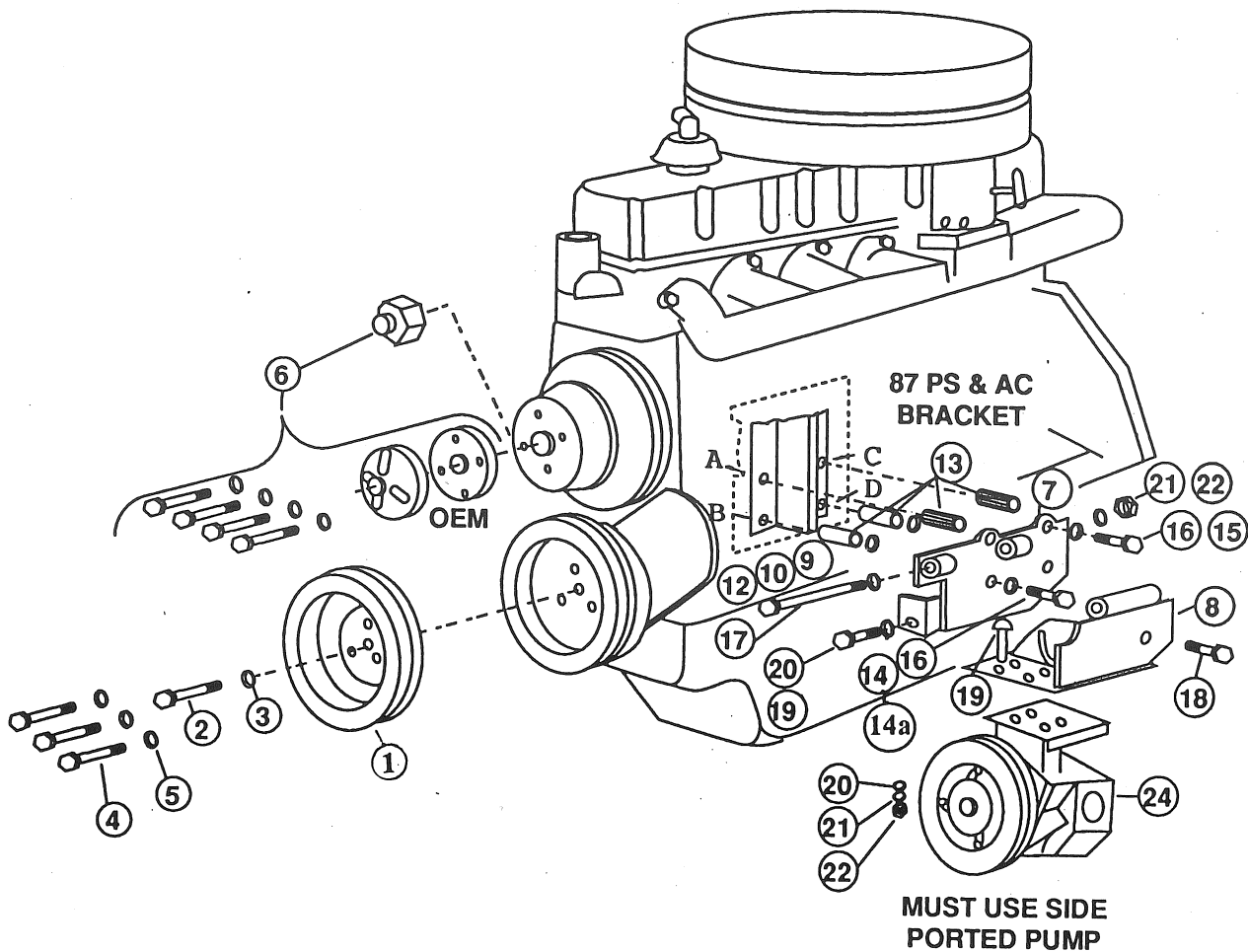
On 94 models: use 2 ea. 1 3/4" spacers and 7/16 X 3" NC bolts and lockwashers at locations "B & D". Use O.E.M. studs and nuts at locations "A & C".

4. Install pump plate (8) to bracket (7) with bolts (17 & 19).
5. Mount clutch pump (24) to pump plate with bolts (19). Align clutch pulley with steel drive pulley (1). Tighten pump bolts securely. Install pump drive belts (23). Adjust mounting plate (8) for proper belt tension using jack bolts (18). Tighten bolts (17 & 19) on pump plate.
6. Install fan spacer (6) and fan. Be sure fan is secured. Connect battery terminal.
7. After plumbing pump with suction and pressure hoses, check clearance with steering linkage while tires are turned as much as possible to the passenger side (right). A shorter length of belt may be necessary if there is contact. Be sure hoses do not interfere with any linkage components.

NOTE: It is necessary to use a side ported pump as clearance to the crossmember is minimal. Install fittings to pump before installing it to pump plate.

NOTE: Visually make certain that there is adequate clearance between fan and drive pulley, and also fan to radiator before operating. It may be necessary to use a longer spacer for pulley clearance. If there is little clearance to the radiator, check with Ford dealer to insure that it will not flex into the radiator before operation.

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PARTS LIST

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|---|---|
| 1. FPC 212 (1) | 11. SP88-0.375 (2) |
| 2. 5/8 X 3 NF (1) | 12. SP88-0.187 (2) |
| 3. 5/8 LW (1) | 13. SP7/16 NC 1.750 (2) |
| 4. 3/8 X 2 NC (3) | 14. 7/16 X 4 NC (2) |
| 5. 3/8 LW (3) | 14a. 7/16 X 3 NC (2) |
| 6. FSK 508B (1) CMKF80-3000-A-AC | 15. 7/16 X 1 1/4 NC (2) |
| 5/16 X 3 1/2 NF (4) | 16. 7/16 LW |
| 5/16 LW (4) | 17. 3/8 X 5 NC (1) |
| FSK 30L (1) CMKF83-3000-A-AC | 18. 3/8 X 1 1/2 SQ. (1) |
| FSK 30R (1) CMKF87-3000-A-AC | 19. 3/8 X 1 1/2 NC (5) |
| FSK 24 (1) CMKF93-3000-A-AC | 20. 3/8 FW (5) |
| 7. FMB 210 | 21. 3/8 LW (6) |
| 8. FMP 21(0-4) (1) | 22. 3/8 NC (5) |
| 9. SP88-1.750 (2) | 23. AX-35 (2) CMKF93-3000-A-AC AX-34 |
| 10. SP88-0.500 (2) | 24. Clutch Pump Assembly (1) |
| | (Sold Separately) |