



CW MILL EQUIPMENT CO., INC.
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FMK 37 -2 Belts
1999-2004 Ford Truck 250-550
5.4 Triton Super Duty
W-WO/AC

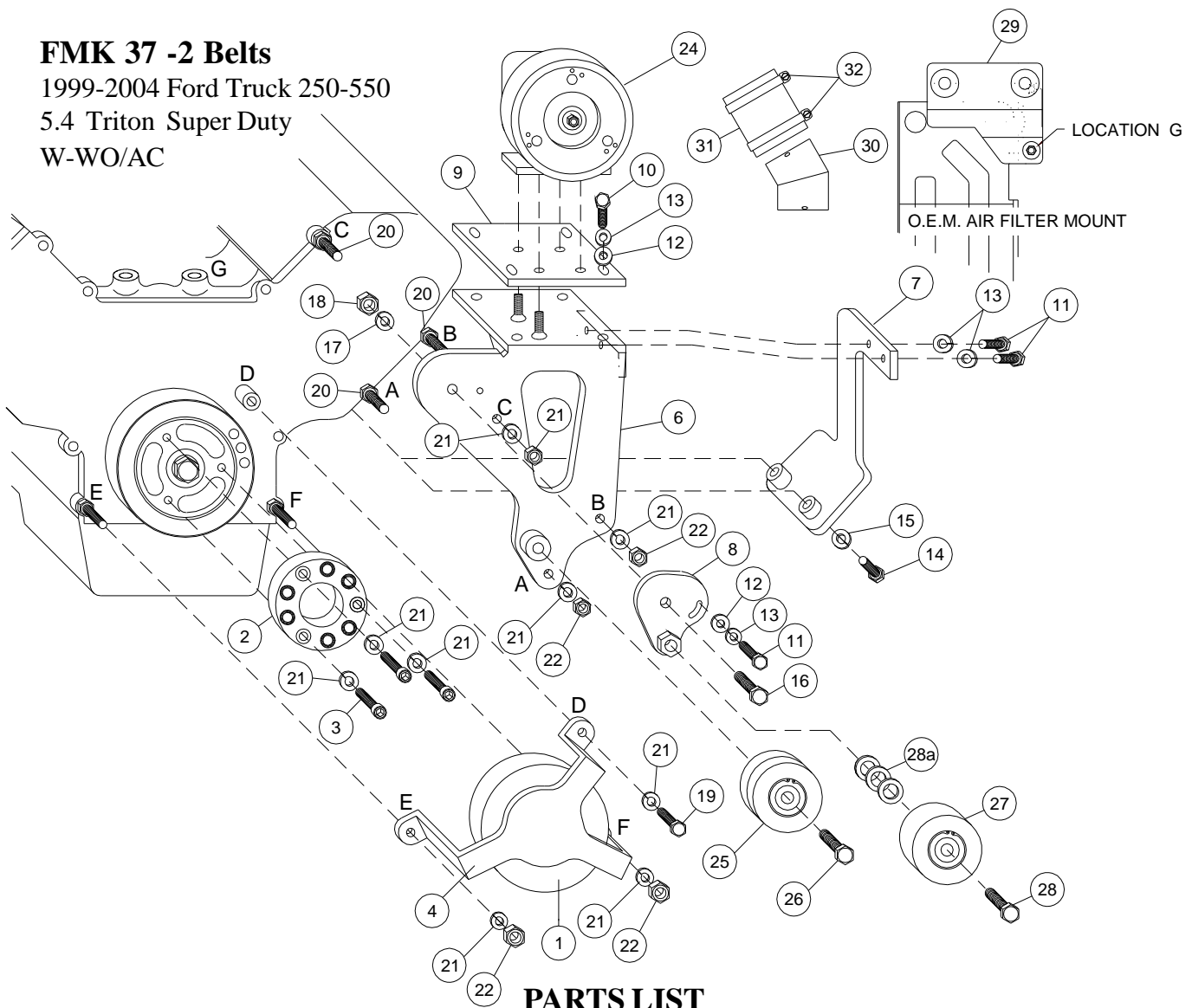
NOTE: MUST USE SIDE PORTED PUMP.

INSTALLATION NOTES

1. Disconnect negative battery terminal. Remove the fan and fan shroud. Threads on the fan are right handed. Removing the air cleaner assembly will make installation a little easier, but is not necessary. Drain antifreeze and remove the upper radiator hose.
2. Install crankshaft adapter (2) onto the front of the balancer with bolts (3) and lockwashers (21). Apply Locktite to the threads and torque them to 40 ft. lbs.. Install the belts onto the drive pulley with the belts on the inside of legs at holes "E & F" and over the leg at hole "D". Slide the pulley assembly onto the front of the engine at O.E.M. studs "E & F" and hole "D". Make sure the six pins in the pulley slide into the six holes with the nylon bushings. If there are any straps, clips, etc. on the studs at "E & F", put them on the outside of the pulley bracket. Tighten nuts (22) and bolt (19) evenly, then torque them to 30-35 ft. lbs.. If the pulley is lined up properly, a very slight amount of backlash should be felt in the pulley.
3. Remove O.E.M. studs one at a time at locations "A,B & C" and replace with studs (20). Torque them to 35 ft/lbs.. Install bracket (6) over studs (20), tighten securely with nuts (22) and lockwashers (21). Install brace (7) with bolts (11) and lockwashers (13) at the top and bolts (14) and lockwashers (15) at the bottom. Tighten all bolts.
4. Disconnect the air cleaner assembly. Remove the front half from the vehicle by pulling the two feet from the rubber grommets and sliding it backwards out from the radiator support. Remove the rubber grommets and the bolt at location "G". Install the grommets into bracket (29) and bolt in place with the O.E.M. bolt at location "G". (*Do not tighten*). Disconnect the intake adapter (30,31,32) with the rubber end on the throttle body and the steel end pointed out towards the drivers side fender. Replace the air cleaner assembly, once it is all connected and aligned, tighten the bolt at location "G".
5. Install grooved idler (25) onto the boss at the bottom of the bracket with bolt (26). Install flat idler onto the tensioner arm with bolt (28). Use the shim washers (28a) provided in the kit to align the idler with the drive pulley. Install tensioner assembly onto the bracket with bolt (16), nut (18) and lockwasher (17). Mount pump onto pump plate with taperhead allen bolts. With bolts (10), lockwashers (13) and flatwashers (12), install the pump and plate assembly onto the main bracket (6). Align it with the drive pulley and idlers and then tighten securely. Place the belts over the pump and idlers and tension the belts. Use bolt (11), lockwasher (13) and flatwasher (12) to lock the tensioner in place after the belts are tight.
6. Replace the fan and fan shroud. Install the upper radiator hose with the longer straight end on the engine (*backwards from its original position*). Replace air cleaner assembly if removed. Connect battery terminal.
7. **CAUTION:** Check all engine compartment hoses and wiring to insure they are not kinked, touching any high temperature item, or do not interfere with any linkage components.
NOTE: Due to O.E.M. assembly tolerances, visually make certain that there is adequate clearance between fan and drive pulley.

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PARTS LIST

FPC 372 Assembly (items 1-4)

- 1. FPC 372 (1)
- 2. FPA 37 (1)
- 3. 10mm x 20mm 1.5 SHCS w/Locktite
- 4. FPS 37 (1)
- 6. FMB 440 (1)
- 7. FMB 441 (1)
- 8. FMB 442 (1)
- 9. FMP 44(0-4) (1)
- 10. 3/8 x 1 1/4 NC (4)
- 11. 3/8 x 1 NC (2)
- 12. 3/8 FW (4)
- 13. 3/8 LW (6)
- 14. 14mm x 50mm 2.0 (2)
- 15. 14mm LW (2)
- 16. 12mm x 35mm 1.75 (1)
- 17. 12mm LW (1)
- 18. 12mm Nut 1.75 (1)
- 19. 10mm x 30mm 1.5 (1)
- 20. 10107 1.5 ST (3)

NOTE: With 7" #2 84700 (A68F), #4 84690 (A67F)

- 21. 10mm LW (9)
- 22. 10mm Nut 1.5 (5)
- 23. Belts (Not Shown) (2)
Goodyear 84690 (A67F)
#2 Goodyear 84680 (A66F)
#4 Goodyear 84670 (A65F)
- 24. Clutch Pump Assembly
(Sold Separately)

GPKD-44 Idler Assembly (items 25-26)

- 25. GPCD Idler (1)
- 26. 5/8 x 2 1/2 NC (1)

IPKD-44L Idler Assembly (items 27-28a)

- 27. IPCD Idler (1)
- 28. 5/8 x 1 3/4 Left hand thread (1)
- 28a. IPW14 Shim (2)
- 29. Air cleaner bracket (1)
- 30. 30° 3" tube (1)
- 31. 3" x 2.5 rubber tube (1)
- 32. 3" Hose clamps (2)
- 33. FSK 37R (1) (Use only if there is not adequate fan to pulley clearance.)