

**Ford 6.8L:G, 2008+, w/Spider Kit, A Pump, 12, 17 GPM, Rear Port**

**Bolt Packages:**

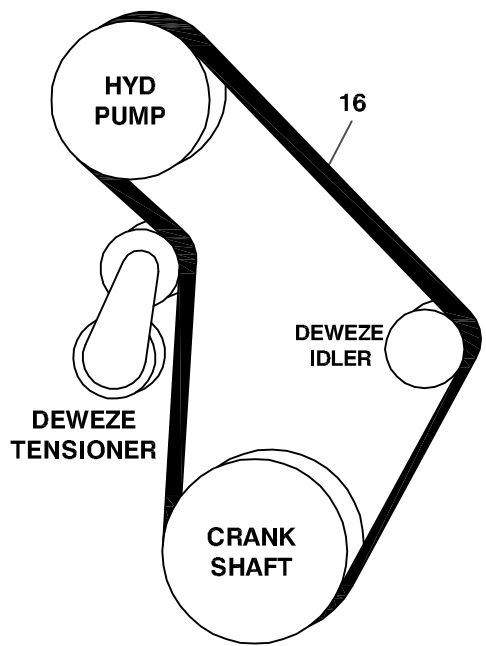
Bracket	711894 (Inc. Items 10-13, 20, 25, 26)
Idler pulley	716144 (Inc. Items 9, 10, 14)
Pulley	None
Tensioner	None

Issue Date	7-9-12	Revision Date	A	10-3-12
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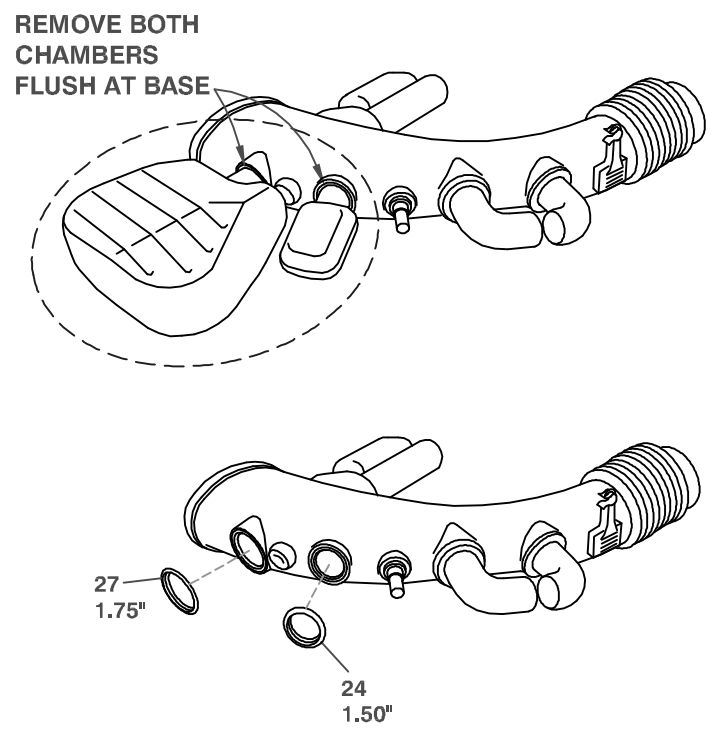
Item	Part No.	Description
1.	711887	Engine bracket
2.	711216	Pump footmount
3.	-----	-----
4.	740441	Tensioner
5.	740143	Idler pulley, 8-groove 3.00"
6.	740436	Spider kit
7.	*	Pump, A rear port
8.	742009	Clutch
9.	110705	M10 x 1.5 X 55 Bolt
10.	110676	3/8 Flat washer
11.	110425	3/8-16 x 1 1/4 Bolt
12.	110292	M8 x 1.25 x 120 Bolt
13.	110558	M8 1.25 x 50 Bolt
14.	112055	M10 x 1.5 x 80 Flat head bolt
15.	OEM	Capacitor
16.	742102	Belt, Micro-V K080694
17.	740400	Crank damper
18.	OEM	Airbox
19.	112060	Shim, 1.4 ID x 1.6 OD
20.	110827	M12 x 1.5 x 70 Bolt
21.	711944	Plate, alternator bridge
22.	OEM	Bolt
23.	OEM	Bolt
24.	702101	Plug, recessed button 1 5/16"
25.	110761	M8 x 1.25 x 110 Bolt
26.	110703	M8 Flat washer
27.	102058	Plug, recessed button 1 3/4"

\* See pump list for sizes and part numbers.

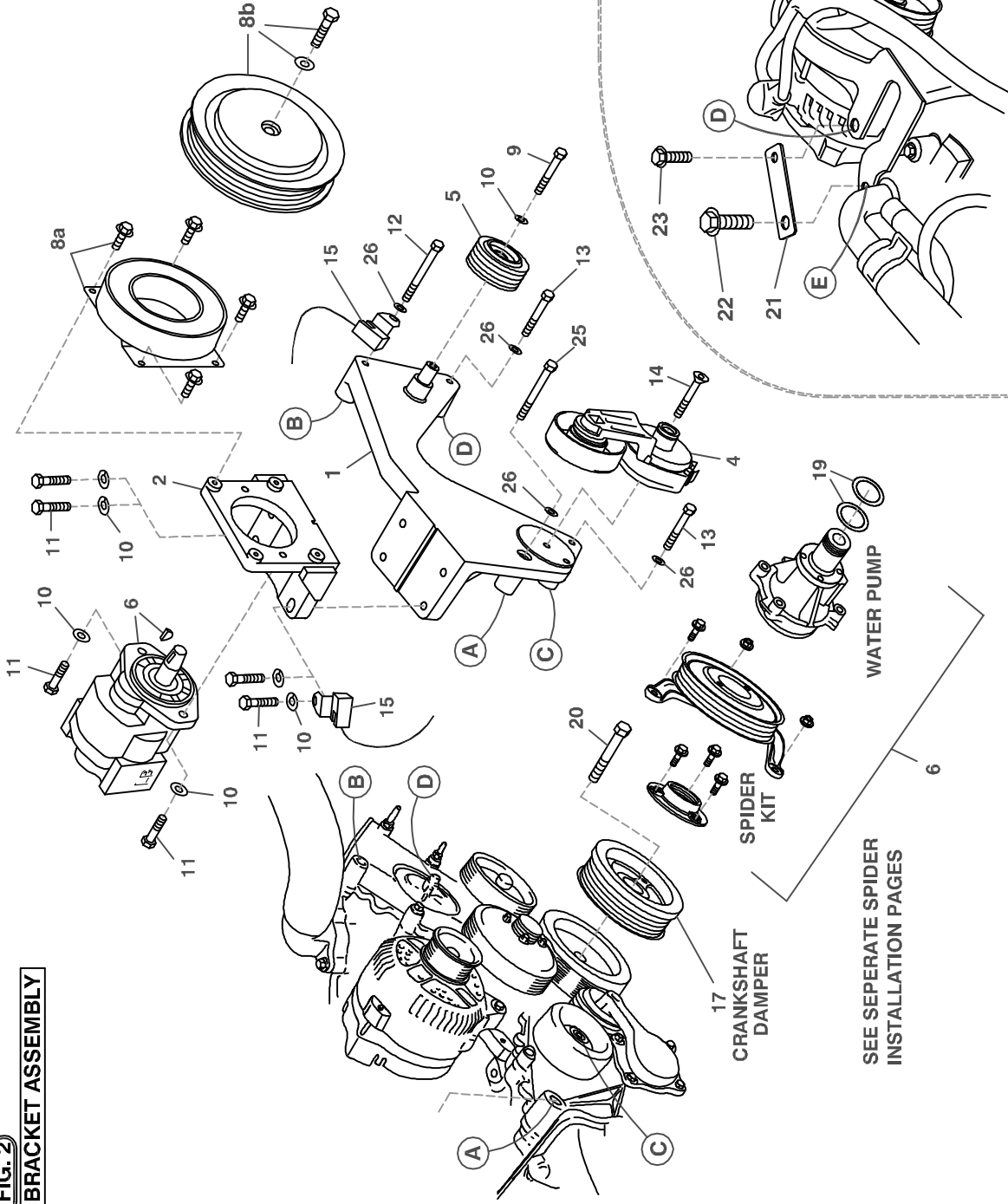
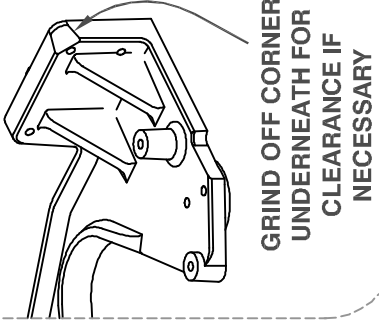
**FIG. 1**  
**BELT DIAGRAM**



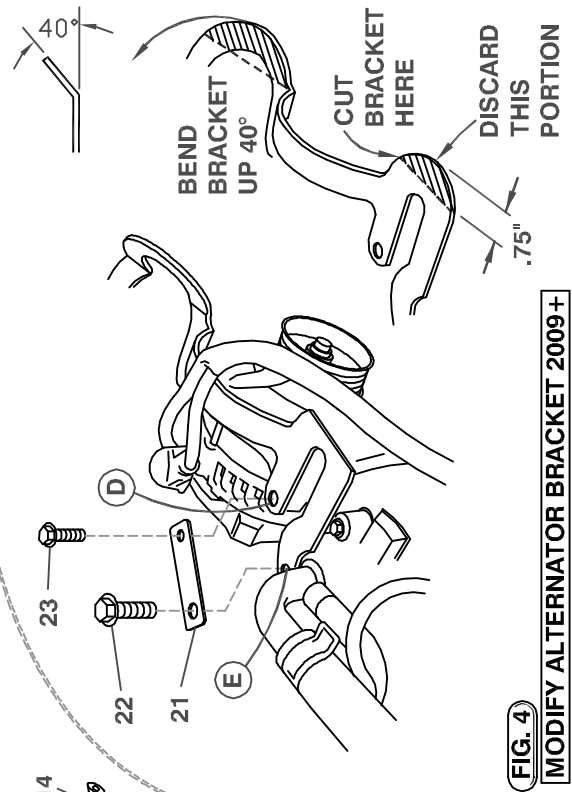
**FIG. 3**  
**AIRBOX MODIFICATION**



**FIG. 5**



**FIG. 2**  
**BRACKET ASSEMBLY**



**FIG. 4**  
**MODIFY ALTERNATOR BRACKET 2009+**

SEE SEPERATE SPIDER  
INSTALLATION PAGES

# DewEZE Clutch Pump Kit 700553

Ford 6.8L, w/Spider, A Pump, 2008+

## INSTALLATION INSTRUCTIONS

1. The installation of this kit requires trained decision-making concerning clearances, tying components together, rerouting, or relocating OEM components, etc. It is impossible to describe all of the clearance and vibration points, etc. in the installation instructions. Therefore, the technician must exercise professional judgment to achieve the best quality installation.
2. Disconnect the battery.
3. Loosen the clamps at the end of the large plastic airbox and remove airbox.
4. Remove OEM belt. Unthread the fan from the water pump and move it forward into the fan shroud to get it out of the way.
5. Drain the coolant from the radiator.
6. Remove the OEM crankshaft damper using the OEM bolt. If the OEM bolt is not long enough, use the M12 x 70 bolt (20) supplied in the kit. Install the new damper (17). Replace the OEM water pump with the new water pump (6) with extended hub, using the original water pump pulley. Replace the OEM belt. Install the spider drive (6). Refer to the Spider Installation sheets for these procedures.
7. Place the two shims (19) onto the water pump where the fan mounts. Hold them centered in place with a drop of silicon. Reinstall the fan onto the water pump.
8. On 2009 and later trucks, remove the OEM bracket over the top of the alternator. On the passenger side of the alternator remove .75" from the bracket as in Fig. 4. On the driver's side of the alternator where the loop over the alternator meets the horizontal arc, bend the bracket up 40°. Reinstall this bracket. Place the bridge plate (21) on top of the alternator bracket (from Location D to Location E), using the OEM bolts (22, 23).
9. Remove the nuts holding the capacitors (15) at Locations A and B. Remove the two OEM stud bolts from Locations A and B. Remove the bolt from the OEM idler at Location C, leaving the idler in place.
10. Hold the pump bracket (1) in place on the engine to check for interference. It may be necessary to grind the underneath corner of the pump footmount pad as in Fig. 5. Attach the pump bracket (1) to the engine at Location A using the M8 x 110 bolt (24) and M8 flat washer (26), and at Location B using the M8 x 120 bolt (12) and M8 flat washer (26), placing one capacitor (15) on top of the bracket before inserting the bolt at Location B. Attach the bracket at Location C (on top of the existing idler) and D each with an M8 x 50 bolt (13) and M8 flat washer (26).
11. Install the tensioner (4) on the pad on the passenger side of the bracket with an M10 x 80 flat head bolt (14) placing the locating pin in the small hole.
12. Attach the idler (5) to the boss on the driver's side of the pump bracket with the M10 x 60 bolt (9) and 3/8 flat washer (10).
13. Install the pump footmount (2) to the pad on top of the bracket, aligning the keyway on the footmount with the key on the bracket. Place the other capacitor (15) on the rear bolt hole. Loosely thread four 3/8 x 1 1/4 bolts (11) and four 3/8 flat washers (10) into the holes.
14. Attach the pump (7) to the back of the footmount (2) using two 3/8 x 1 1/4 bolts (11) and two 3/8 flat washers (10).
15. Attach the clutch coil (8a) to the front of the pump plate using the four 1/4 x 1/2 flange

bolts provided with the clutch. Attach the clutch pulley (8b) to the pump shaft using the 5/16 x 1 1/4 bolt and heavy flat washer provided. Using a straightedge, line up the clutch pulley, spider pulley and idler. Tighten the four footmount bolts (11).

16. Install the new belt (16) as shown in Fig. 1.
17. It is necessary to remove two of the chambers of the airbox (18) for clearance as shown in Fig. 3. Cut each off flush at its base where it attaches to main tube. Apply a heat-resistant adhesive to the 1.75" recessed button plug (27) and insert firmly into the larger hole. Apply a heat-resistant adhesive to the 1.50" recessed button plug (24) and insert firmly into the smaller hole.
18. Replace the coolant. Connect the battery.
19. Make sure all bolts are tight. Run the engine and check for any clearance or alignment problems. Adjust as needed.