



Clutch Pump Kit

KIT NUMBER
700585

Ford 6.2L: G, 2017+, A Pump, Side Port

BOLT PACKAGES:

BRACKET	716237 (Inc. item 4, 11-19, 24, 25)
IDLER PULLEY	None
CRANK PULLEY	None
TENSIONER	None

702116 BELT DIAGRAM

ISSUE DATE 8/18/16

NC

REVISION DATE

Item Quan. Part No. Description

1.	1	716047	PUMP MOUNT BRACKET	23.	1	716239	BRACKET, FAN CLUTCH ARM
2.	1	716048	IDLER BRACKET	24.	1	110444	BOLT, 5/16-18 X .75 FLANGE
3.	1	716049	BRACE, PUMP MOUNT	25.	1	110319	NUT, 5/16-18 U-TYPE
4.	1	716050	BUSHING, BRACE	26.	-	-	-
5.	1	710936	PUMP PLATE	27.	-	-	-
6.	1	740151	IDLER, FLAT	28.	1	120088	HOSE SPLICE
7.	1	740427	IDLER, 6-GROOVE	29.	1	716052	HOSE, 1.5" ID X 2.25" LONG
8.	-	-	-	30.	2	511002	CLAMP, HOSE #24 1.5"
9.	1	*	PUMP	31.	5	100578	CABLE TIE, 14"
10.	1	742016	CLUTCH, 6 GROOVE w/DIODE	32.	1	740283	BELT
11.	1	110775	BOLT, M8 X 1.25 X 60 LOWHEAD SOCKET				
12.	2	110569	BOLT, M8 X 1.25 X 65 HEX HEAD				
13.	3	110558	BOLT, M8 X 1.25 X 50 HEX HEAD				
14.	2	110933	BOLT, M16 X 2.0 X 35 FLANGE 10.9				
15.	1	110437	BOLT, 3/8-16 X 0.75 WIZ FLNG				
16.	1	110435	BOLT, 3/8-16 X 1.5 HEX HEAD				
17.	5	110703	WASHER, M8 FLAT				
18.	1	110676	WASHER, 3/8 FLAT				
19.	3	110465	BOLT, 3/8-16 X 1.25 SOCKET HEAD				
20.	-	-	-				
21.	2	110425	BOLT, 3/8-16 X 1.25 HEX HEAD				
22.	2	110672	WASHER, 3/8 LOCK				

FIG. 1

BELT DIAGRAM

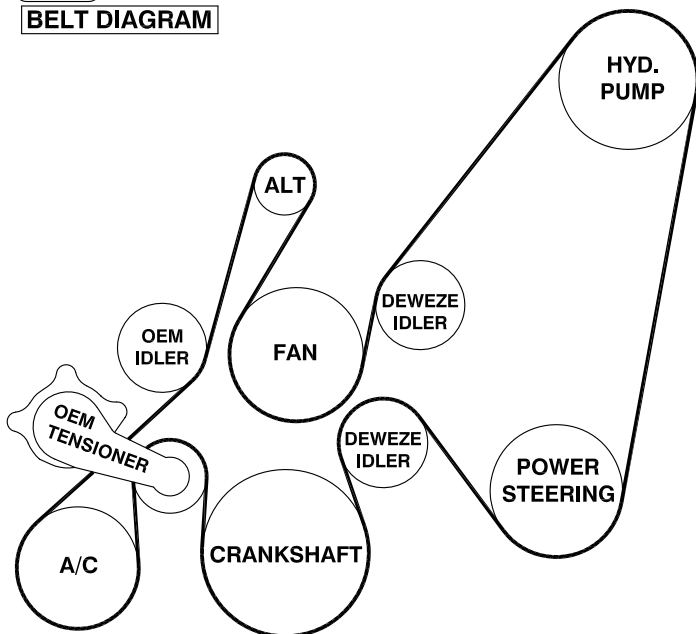
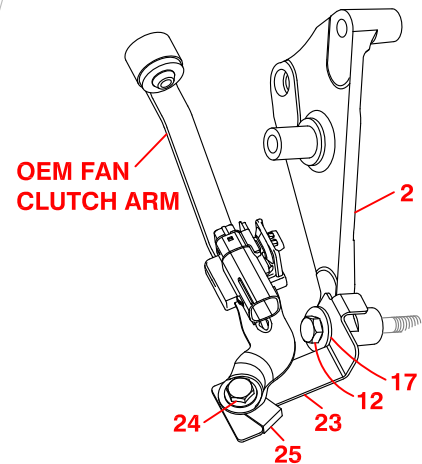


FIG. 2a

FAN CLUTCH ARM BRACKET ASSEMBLY



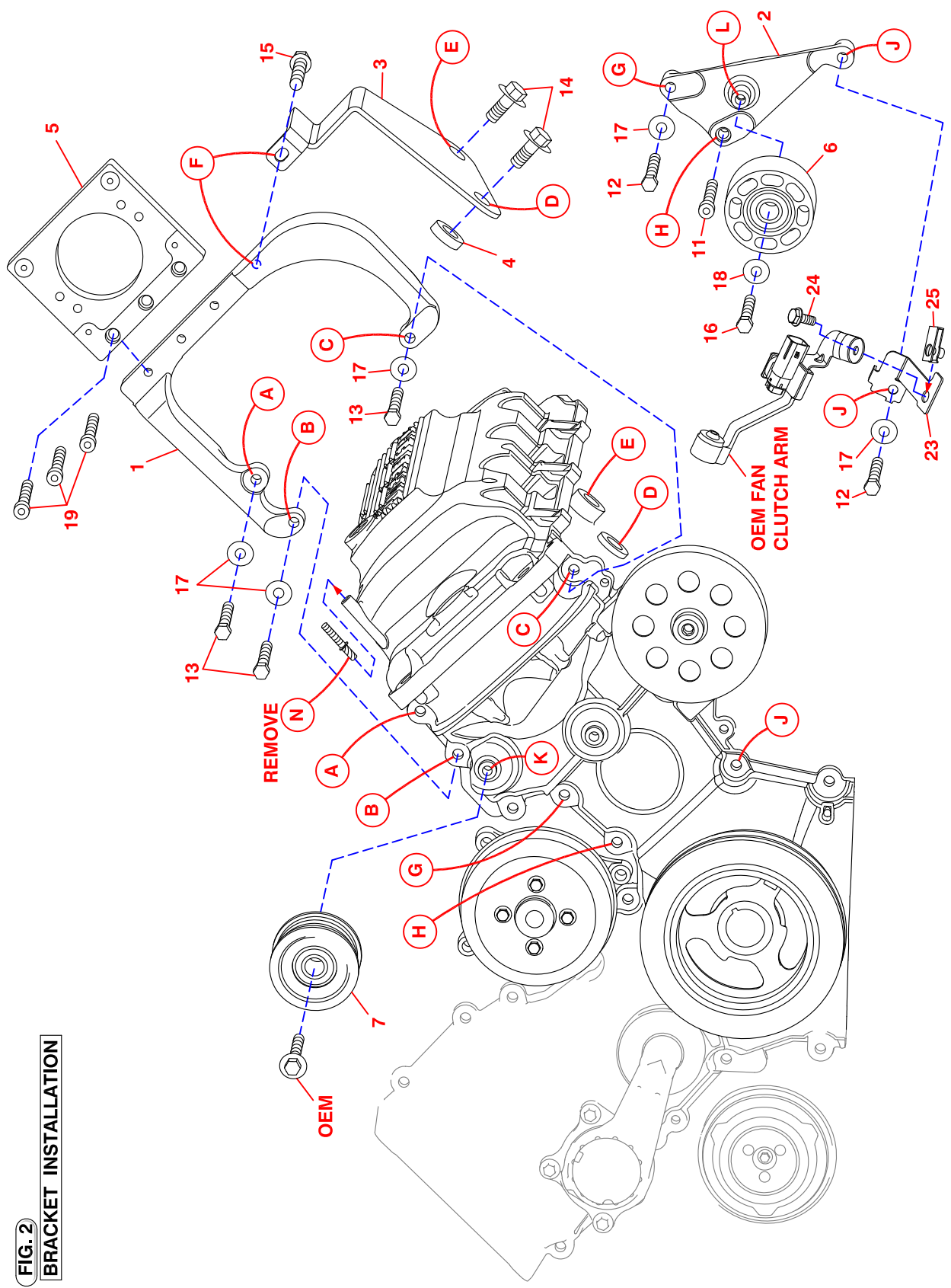


FIG. 2
BRACKET INSTALLATION

FIG. 3
BRACKET BRACE INSTALLATION

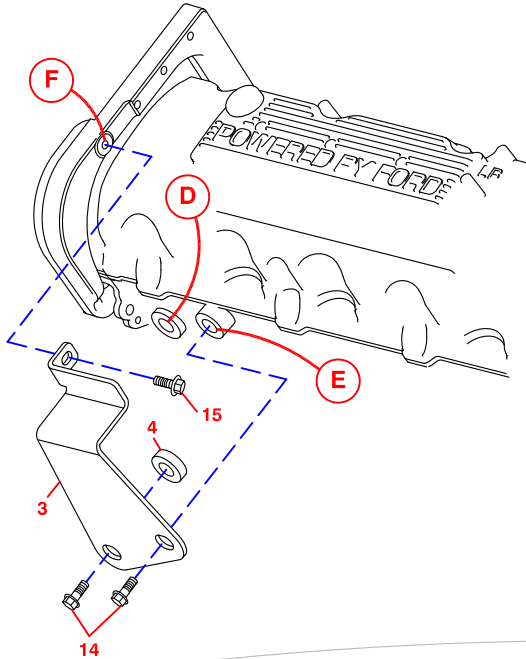
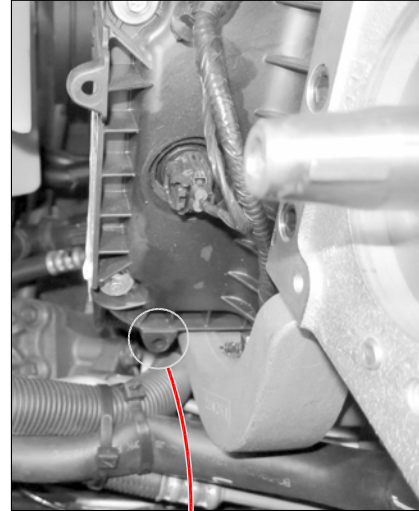
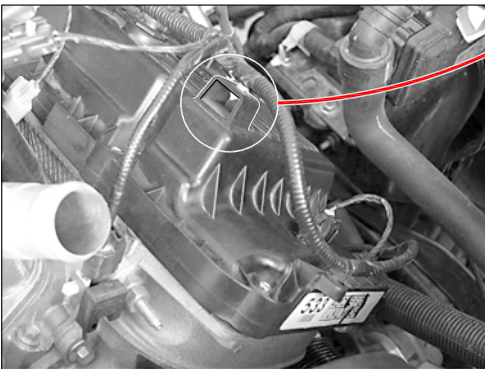


FIG. 7
VALVE COVER MODIFICATION FOR 2012+



LOCATION P.
PULL CABLE CLAMP FROM
THIS HOLE. CUT OFF THIS TAB.

FIG. 8
VALVE COVER WIRING HARNESS ATTACH TAB



ORIGINAL
CONFIG.

Q

CUT TAB BACK,
LEAVING HOLE TO
ATTACH HARNESS.

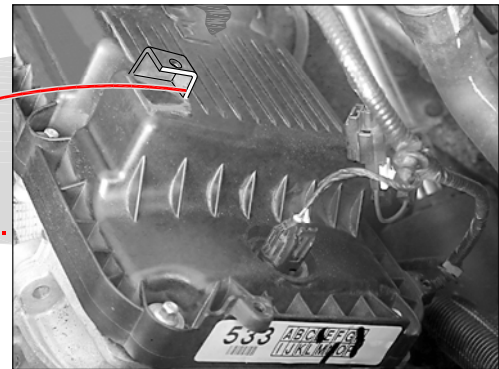


FIG. 4
MOVE COOLANT TANK HOSE

PLACE HOSE FROM COOLANT
TANK BETWEEN STEERING
RESERVOIR AND FAN SHROUD

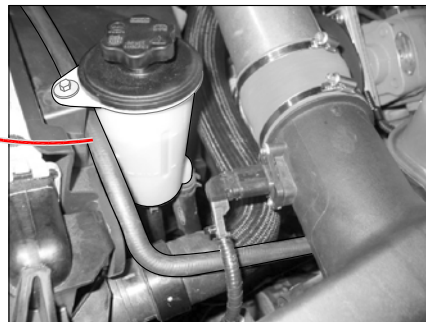


FIG. 5

**BRACKET LOCATION
RADIATOR HOSE SPLICE**

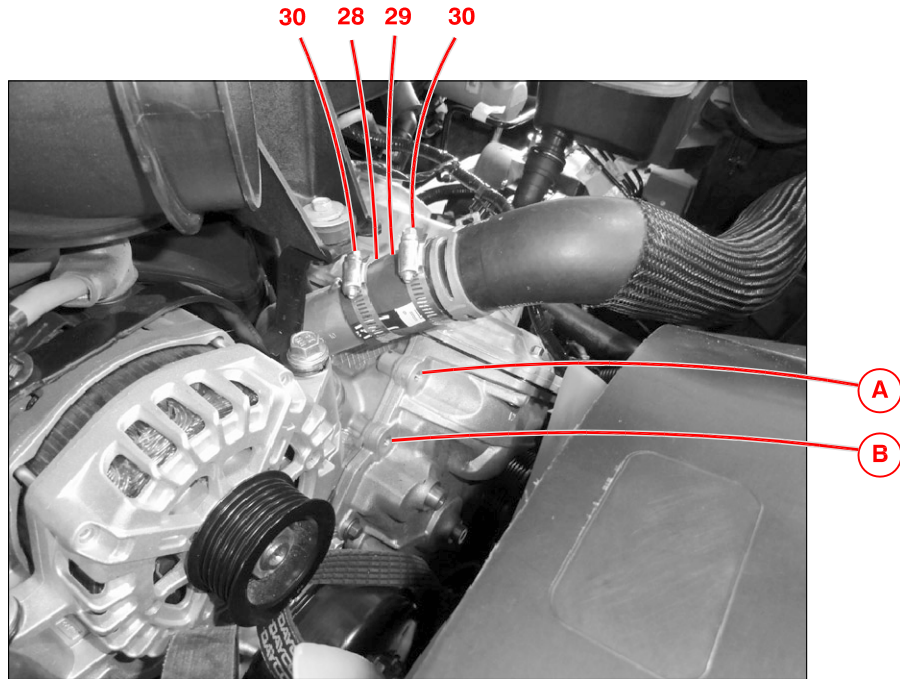
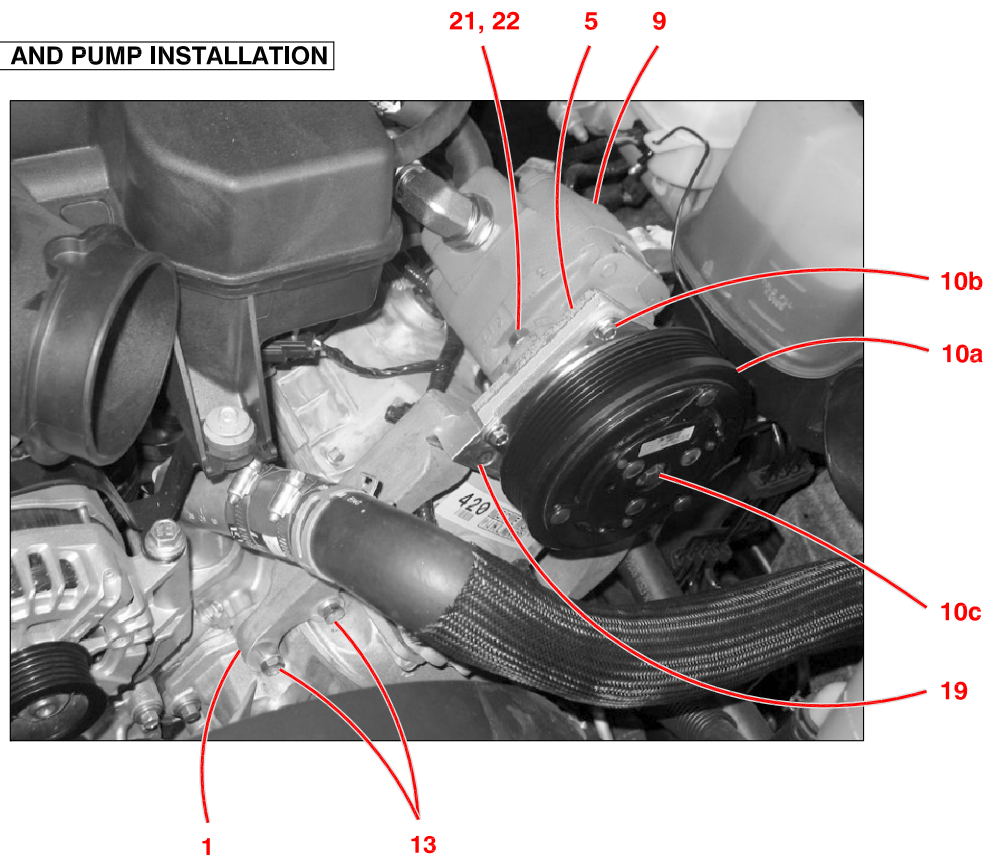


FIG. 6

BRACKET AND PUMP INSTALLATION



DewEZE Clutch Pump Kit 700585

Ford 6.2L Gas, A Pump, Side Port, 2017+

INSTALLATION INSTRUCTIONS

Note: Suction hose to the pump must be spiral wire hose; 1" ID for 7 & 9 GPM pumps, 1-1/4" ID for 12 & 17 GPM pumps. Installations with smaller hoses will negatively affect pump performance and may significantly shorten pump life. In certain cases it may void pump warranty.

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. Remove the belt.
3. Drain just enough of the engine coolant to remove the upper radiator hose from the engine water neck. Insert the hose splice (28) into the OEM radiator hose, push the short piece of radiator hose (29) onto the splice and onto engine with two 1.5" hose clamps (30), Fig. 5. Unclamp the hose from the top front of the coolant tank (Location M), thread it between the power steering reservoir and the fan shroud and connect it back to the coolant tank, Fig. 4. Replace coolant.
4. The supply hose for the power steering pump must be rotated to clear the new belt routing. Hold the spring clamp with locking pliers, and rotate the hose as far towards the driver side fender as possible. Using a cable tie (31), secure the steering hose to the radiator hose running between the coolant tank and the radiator. On 2012 and newer trucks, pull the wiring cable from the attachment point on the front of the driver's side valve cover at Location P, Fig. 7. Cut off that tab from the cover to give clearance for the belt. Pull the wiring cable from the attachment point on the top front of the driver's side valve cover at Location Q, Fig. 8. Cut off or grind the front of that tab, leaving the hole to attach the wiring harness, to give clearance for bracket (1).
5. Remove the three bolts on the lower portion of engine at Locations G, H, and J. Unplug the wires from the clutch arm. Install the idler bracket (2) with an M8 x 65 bolt (12) and an M8 flat washer (11) at Hole G. Insert the M8 x 60 low head socket head bolt (11) at Location H. Install the flat idler (6) with 3/8 x 1 1/2 bolt (16) and 3/8 flat washer (18) onto boss at Location L. Push the U-type nut (25) onto the corner of the clutch arm bracket (23) until the nut snaps into the hole in the bracket. Place the clutch arm bracket over the idler bracket at Hole J with the tabs on the clutch arm bracket straddling the idler bracket (See Fig. 2a). Thread M8 x 65 bolt (12) with M8 flat washer into Hole J. Attach the clutch arm to the clutch arm bracket (23) with the 5/16 x 3/4 flange bolt (24). Plug wires back into connector on clutch arm.
6. Install the pump bracket brace (3) to the two large threaded holes on the side of the cylinder head at Locations D and E, placing the bushing (4) between the front hole and the bracket using M16 x 35 flange bolts (14). Do not completely tighten.
7. Remove the OEM flat idler at Location K. Remove the OEM stud bolt holding the wiring clip at Location N. Let the wiring rest below the pump. Remove the three bolts at locations A, B, and C. Install the pump bracket (1) with three M8 x 50 hex bolts (13) and three M8 flat washers (17). Fasten brace to pump bracket with 3/8 x 3/4 flange head bolt (15) through brace into back of pump bracket. Tighten all the bolts on the brace. Install the 6-groove idler (7) at Location K with the OEM bolt.
8. Mount the pump (10) to the back of the pump plate (5) with two 3/8 x 1 1/4 bolts (21) and two 3/8 flat washers (22). Install fittings to pump, then install pump plate with three 3/8 x 1.25 socket head bolts. Mount the clutch coil (10a) to the pump bracket with four 1/4 x 1/2 flange bolts (10b). Mount the clutch pulley (10c) to the pump shaft with the 5/16 x 1 1/4 bolt (10d) and heavy flat washer (10e) making sure the key is in place on the shaft.
9. Install belt (32) according to diagram.
10. Reconnect the battery.
11. Run the engine and check for any clearance or alignment problems. Adjust as needed.

STARTUP INSTRUCTIONS

After the installation of the kit, start up of a hydraulic system requires that the hydraulic pump be started following professional fluid power standards.

Our testing shows that running a pump for as little as **30 seconds without oil** can cause damage that shortens the life of the pump. Therefore the pump with a non-flooded inlet must be primed; air bled out of the system, so oil reaches the pump immediately.