

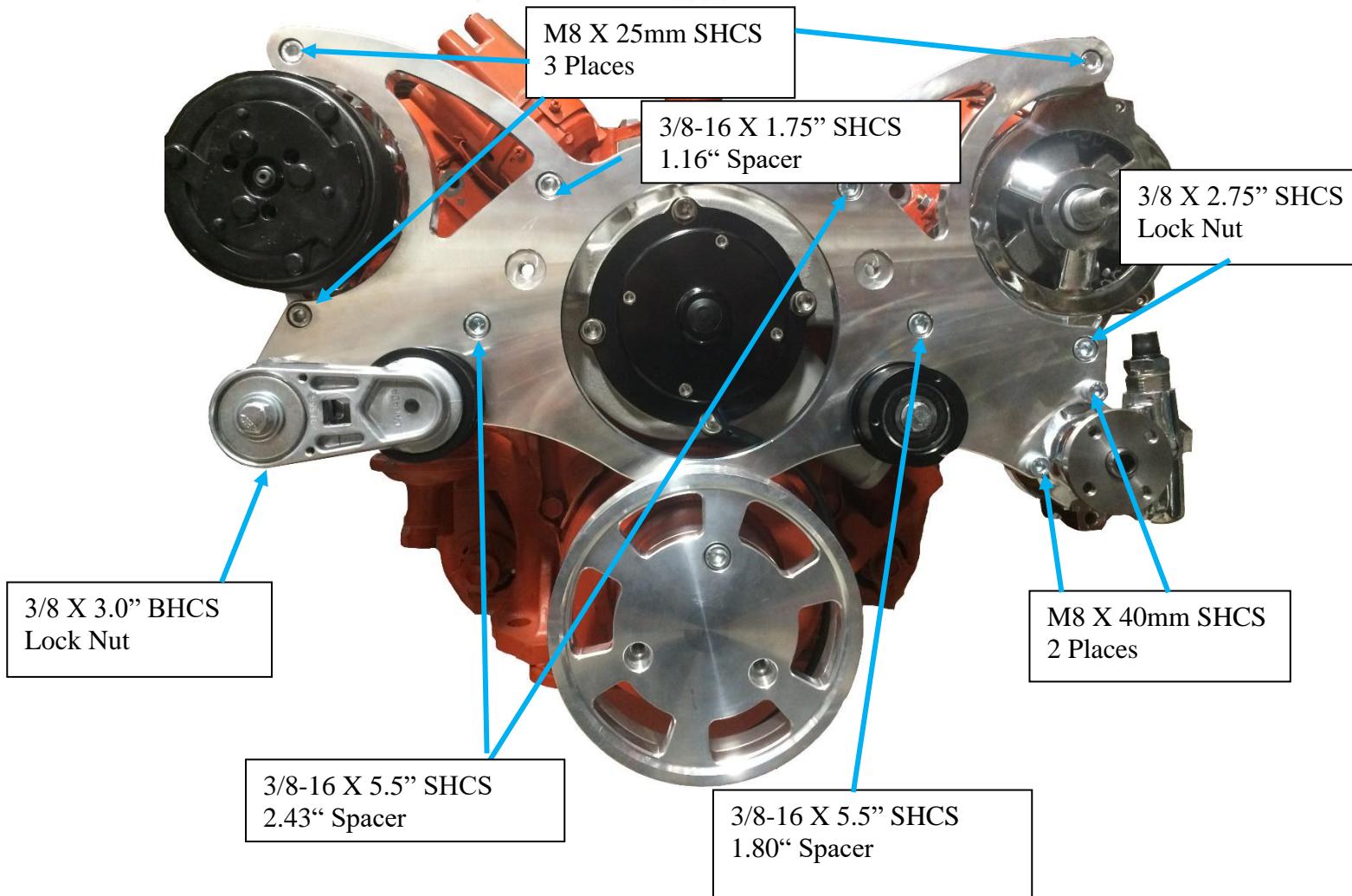


440-BRACKET-KIT-WR-EWP Instructions Rev A

440 BCR Electric Water Pump Bracket Parts List (For use with Meziere 106/306 Series EWP)

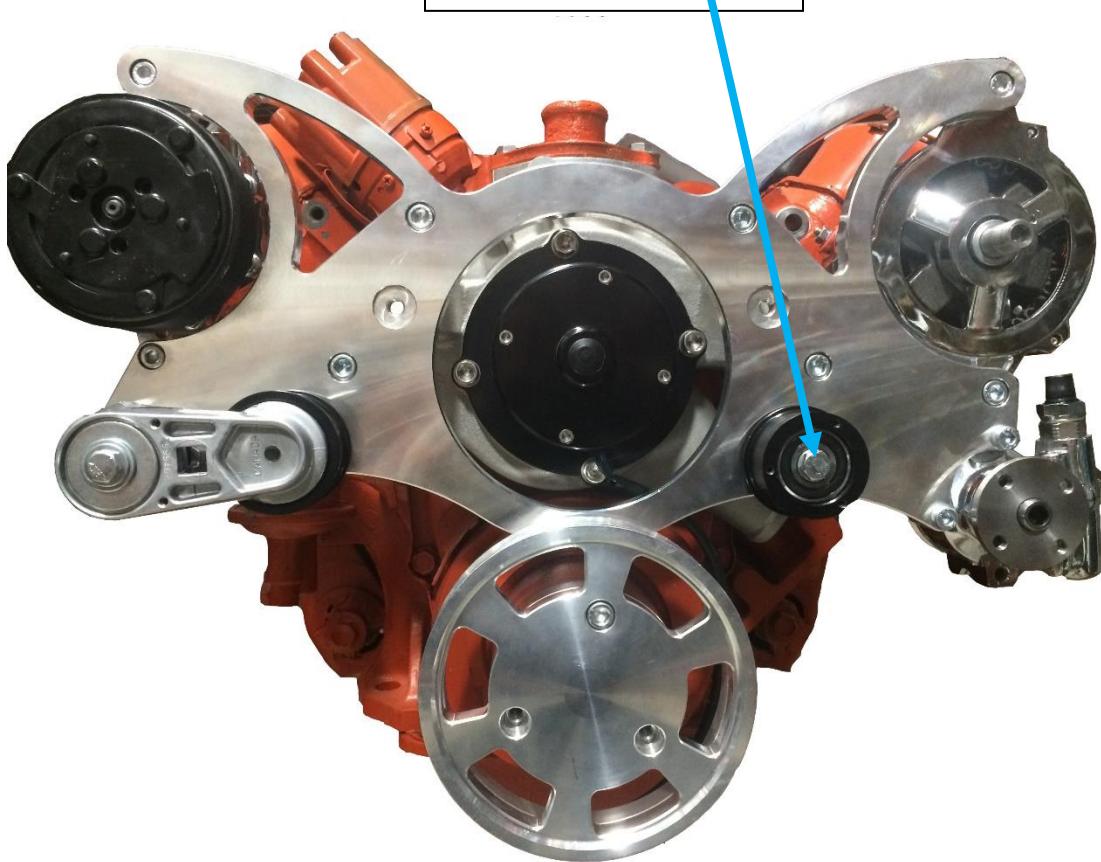
Item	Description	Qty	Comments
1	3/8-16 X 2.75" SHCS	1	Bottom Alternator Bolt
2	3/8-16 X 3.0" BHCS	1	Idler Assembly Bolt
3	3/8-16 X .468 Lock Nut	3	Lock Nut for Tensioner Assembly, Idler Assembly's & Bottom Alternator Bolt
4	3/8-16 X 2.5" HHS	1	Idler to Bracket Bolt
5	M8-1.25 X 25mm SHCS	3	Top Compressor Bolt Top Alternator Bolt
7	M8-1.25 X 40mm SHCS	2	Bolts for Power Steering Pump (if used)
8	3/8-16 X 5.5" SHCS	3	Bracket to Water Pump Bolts
9	3/8-16 X 1.75" SHCS	1	Bracket to Water Pump Bolts, Top Left
10	3/8" SAE Washer	1	Washer Between Idler Pulley Assembly & Bolt
11	7517722-243 Spacer	2	2.43" Spacers Btwn Bracket and Water Pump
12	7517722-180 Spacer	1	1.80" Spacer Btwn Bracket and Water Pump
13	7517722-116	1	1.16" Spacers Btwn Bracket and Water Pump, Top Left
	Total Parts	20	6X6X2 S-4307

Notes: SHCS = Socket Head Cap Screw & BHCS = Button Head Cap Screw





Idler Pulley Assembly
Washer
3/8 X 2.5" SHCS
3/8 Lock Nut
Idler Pulley Cap
#8-32 X 0.5" SHCS



Step 1: Remove old brackets pulleys and water pump (if applicable)

Step 2: Apply RTV Blue or similar gasket sealer to both sides of the water pump gaskets and install the water pump. Bolts not used to mount the bracket are not supplied.

Step 3: Install the water pump and main bracket (440-WR). It is recommended to do this all at once. It may be beneficial to have someone help with this step. Everything from here on out will attach directly to the main bracket. Use (3) 3/8 X 5.5" SHCS, (1) 3/8 X 1.75" and the spacers. When looking at the front of the engine, the bottom right bolt will use a 1.8" spacer, the top left will use the 1.16" space and 3/8 X 1.75 SHSC while the rest will use the longer 2.43". Do not fully tighten any bolts until all have been started. Secure in an alternating pattern.

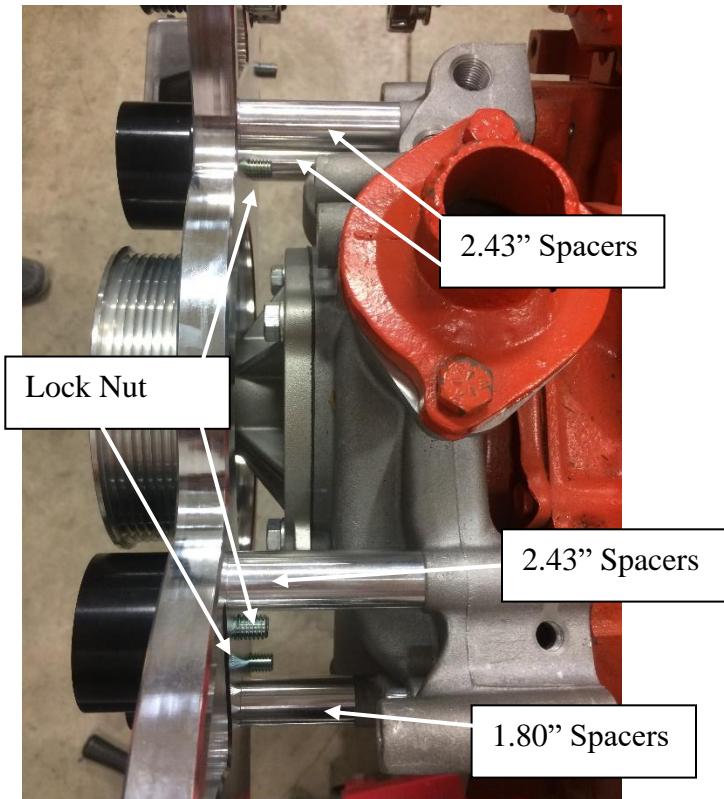
Step 4: Install Alternator using M8 X 25mm SHCS on top bolt and 3/8 X 2.75" SHCS on bottom bolt with 3/8" Lock Nut. See torque specs listed below.

Tech Tip: If side post of alternator is not in a desired location, you can carefully unbolt the back housing of the alternator and rotate to a preferred location. DO NOT REMOVE the back housing completely or you will have to re-install the bushings.

Step 5: Install compressor with fittings facing up. Use Two M8 X 25mm SHCS. Tighten to 36 ft-lbs (48.8N-m). See AC Delete Instructions if not running AC (Also included on page 4 of these instructions)



Step 6: Install Gates spring loaded idler pulley using 3.0" Button Head Cap Screw and 3/8" Lock Nut



Step 7: Install the remaining pulleys and pulley covers with the bolts that are in each box

Step 8: Use a 1/2" ratchet to apply tension to the idler pulley and install the belt as shown.

Step 9: Install the idler tensioner cover using the two #10 X 0.5" SHCS

Step 10: Install and plumb the remote reservoir. (The fittings on the bottom of the reservoir are 3/8" NPT)

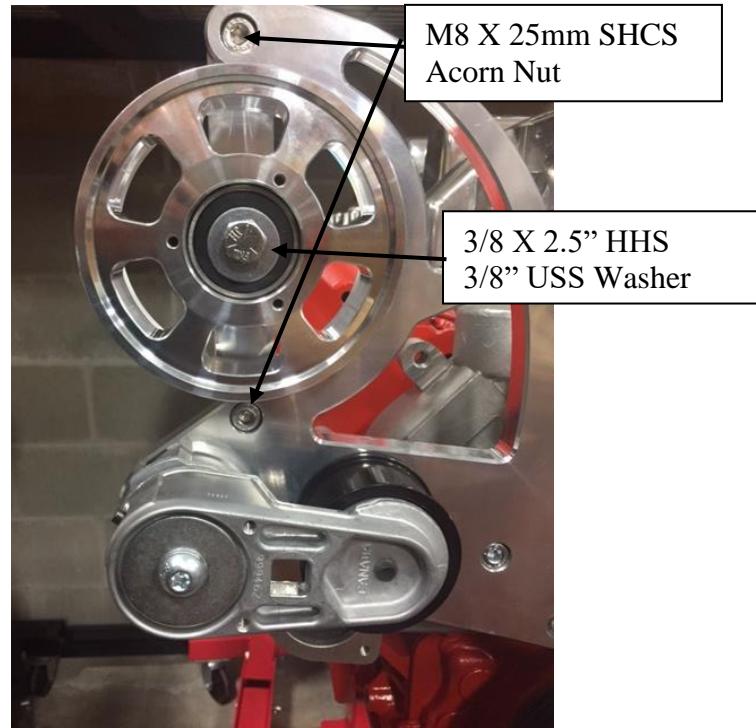
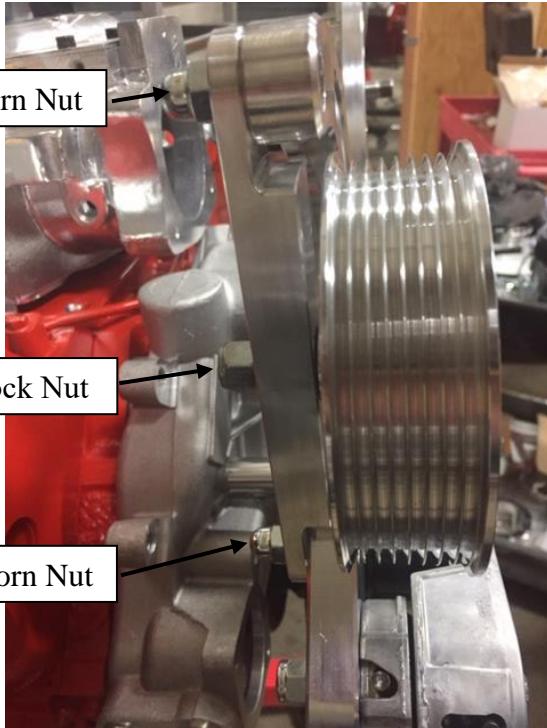
Tech Tip: After initial start-up, you will need to bleed air from your power steering system. To do this, you want to put the front of the car on jack stands and steer into the left stops and then into the right stops repeatedly. Check fluid level frequently and add as needed.

Torques Specs:

#8 Socket Cap Screw: 30 in-lbs (3.4 N-m)
#10 Socket Cap Screw: 65 in-lbs (7.3 N-m)
M8 Socket Cap Screw: 36 ft-lbs (48.8 N-m)
1/4-20 Button Head Screw: 16 ft-lbs (21.7 N-m)
5/16-18 Socket Cap Screw (Fine): 38 ft-lbs (51.5 N-m)
5/16-24 Socket Cap Screw (Coarse): 34 ft-lbs (46.1 N-m)
3/8-16 Socket Cap Screw: 61 ft-lbs (82.7 N-m)
3/8-16 Button Head Screw: 30 ft-lbs (40.7 N-m)



Optional AC Delete Bracket & Idler Pulley
(See detailed instructions in box for Idler Delete)



Belt Routing with and without Power Steering





Tech Tip: Installing belt- In some cases when installing the belt, the belt can be too tight to fit over the pulley. If you remove the alternator pulley cap and the nut that holds the pulley onto the alternator, place belt around alternator pulley as shown in the pictures below. Release tension on the tensioner and slide alternator pulley onto the shaft of the alternator. Install alternator nut and alternator pulley cap. This is also possible by removing the Power Steering pulley as shown below.

