



## DC-BRACKET-KIT-WR-2 Instructions Rev C

### Cummins Bracket Kit Parts List

Item	Description	Qty	Comments
1	3/8-16 X 2.75" SHCS	1	Bottom Alternator Bolt
2	3/8-16 X 3.5" SHCS	1	Idler Assembly Bolt
3	3/8-16 X 2.5" HHS	2	Idler to Bracket Bolt
4	3/8" SAE Washer	4	Washer Between Idler Pulley Assembly & Bolt & rear support
5	3/8-16 X .468 Lock Nut	4	Lock Nut for Tensioner Assembly, Idler Assembly's & Bottom Alternator Bolt
6	5/16-18 X .359 Lock Nut	1	Main Bracket Rear Support Nut
7	5/16-18 X 4.5" SHCS	1	Main Bracket Bolt to Thermostat Housing if 12 Valve Application
8	M8-1.25 X 25mm SHCS	3	Top Compressor Bolt Top Alternator Bolt
10	M8-1.25 X 50mm SHCS	2	Water Pump & Main Bracket Bolts
12	7507722-057 Spacer	2	0.57" Spacers Btwn Bracket and Water Pump
13	DC-WR-4	1	Main Bracket
	Total Parts	<b>22</b>	

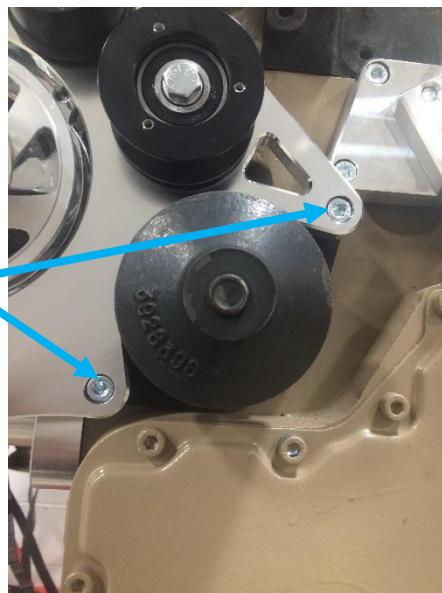
Notes: SHCS = Socket Head Cap Screw & BHCS = Button Head Cap Screw

**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 during installation in step 3.

**Step 3:** Attach main bracket using two (2) M8 X 50mm SHCS bolts with two (2) 0.57" spacers. Spacers will sit between water pump and main support bracket. Bolts will thread into engine block. See torque specs below.

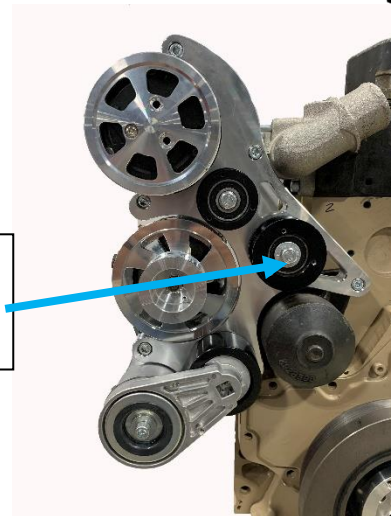
M8 X 50mm SHCS  
.57" Spacer





**Step 4:** Install ribbed idler pulley (S-SERP-IDLER-WR) onto main bracket with One 3/8 X 2.5" HHS, One 3/8 SAE washer & One 3/8 Lock Nut. (pulley, pulley cap & cap hardware will be in the separate S-SERP-IDLER-WR box.)

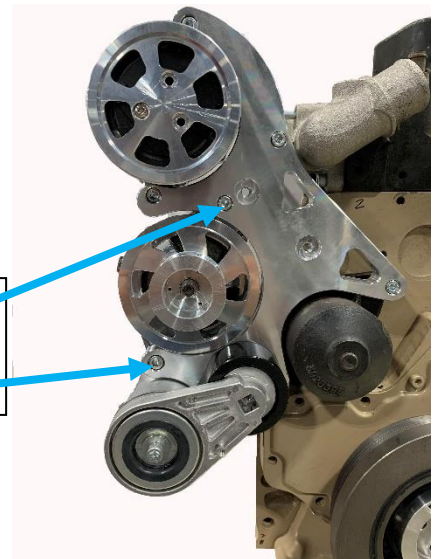
3/8 X 2.5" SHCS  
3/8 SAE WASHER  
3/8 LOCK NUT



**Step 5:** 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 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.

M8 x 25MM SHCS  
3/8 X 2.75" SHCS

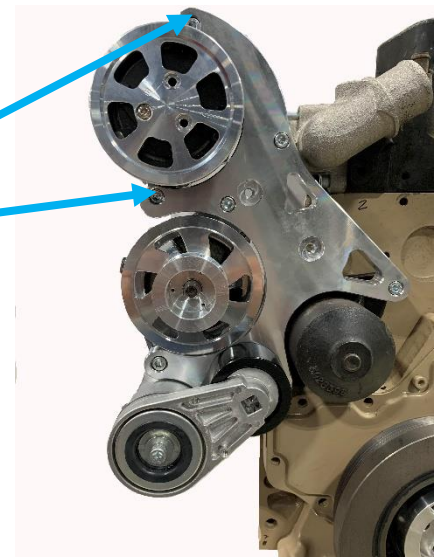


**Step 6:** Install compressor with fittings facing up. Use (2) M8 X 25mm SHCS. See AC Delete Instructions if not running AC (Also included on page 4 of these instructions) See torque specs below.

Acorn Nut  
3/8 Lock



M8 X 25MM SHCS





**Step 7:** Install Gates spring loaded idler pulley using 3/8" Socket Head Cap Screw, 3/8" Washer (behind the screw head) and 3/8" Lock Nut.

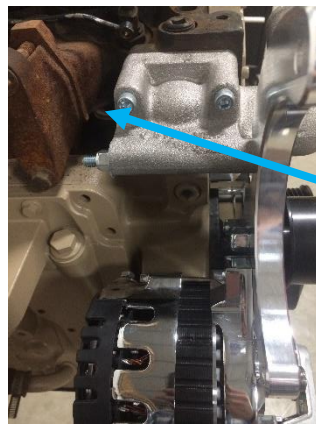


**Step 8:** Install smooth idler pulley (SERP-IDLER-WR) onto main bracket with One 3/8 X 2.5" HHS, one 3/8 SAE washer & One 3/8 Lock Nut.(pulley, pulley cap and cap hardware will be in the separate SERP-IDLER-WR box.)



**Step 9:** Install upper main bracket bolt for added support. There are two different ways in doing this. If you have a 12-valve head please follow Step 9A. If you have 24 valve/common rail head, follow step 9B.

**Step 9A:** For 12-valve you will need to use a thermostat housing as pictured below. Utilizing the hub on the thermostat housing to secure the upper portion of the bracket as shown. Use 5/16 X 4.5" SHCS with a 5/16 Lock Nut & 3/8 SAE washer on the back side of the housing.

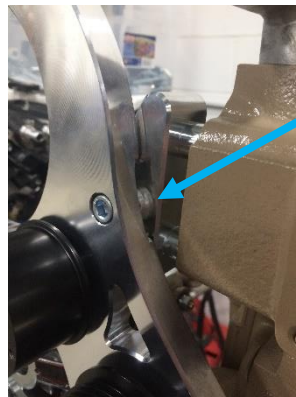


5/16 X 4.5" SHCS

5/16 Lock Nut  
Washer



**Step 9B:** For 24 valve & Common Rail head there will be separate instructions with in DC-REAR-SUPPORT-24C Kit.



See DC-REAR-SUPPORT-24C  
Kit for details

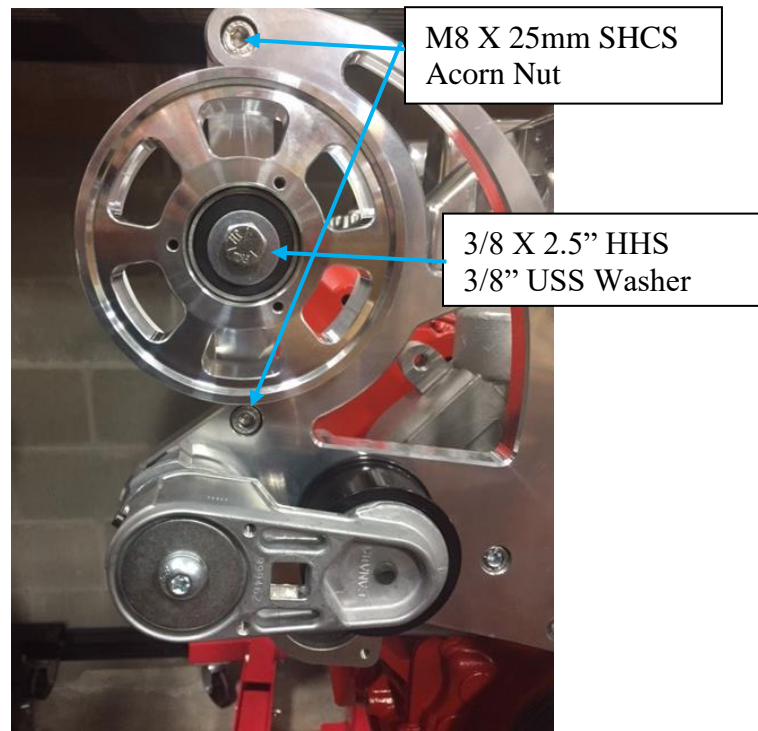
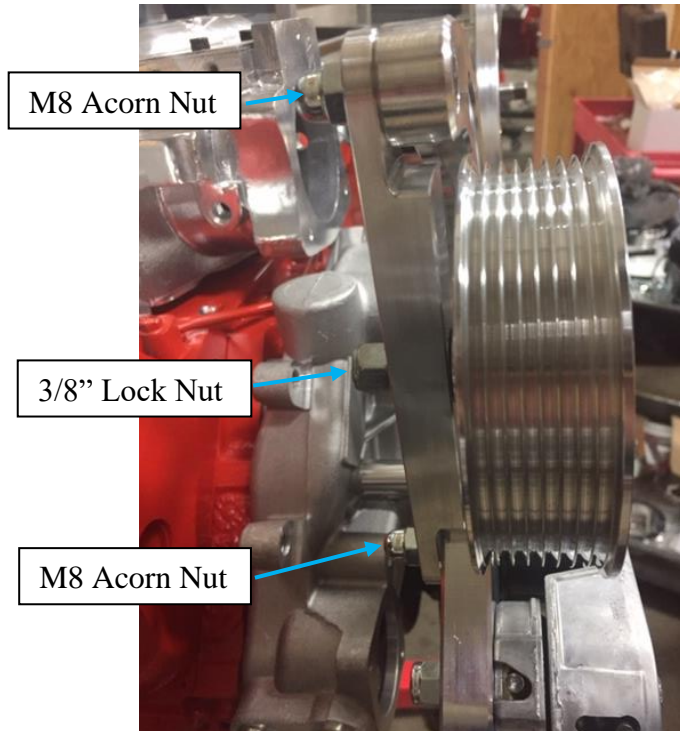
Install the remaining pulleys and pulley covers with the bolts that are in each box

**Step 10:** Use a 1/2" ratchet to apply tension to the idler pulley and install the belt as shown.

**Step 11:** Install the idler tensioner cover using the two #10 X 0.5" SHCS

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





## Belt Routing with and without Cooling Fan Support Bracket



### 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)

**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.

