

# **DFI099-100 Assembly Instructions**



**DREWFAB**  
Lakeside, CA

**BBF FRONT MOUNT ALTERNATOR KIT**

# Kit contents

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	038-16-175-SS-SHCS	3/8-16 X 1.75 SS SHCS	4
2	15360	36" V BELT	1
3	400-8423	ARP STAINLESS 3/8X.655 CHAMFER WASHER	4
4	400-8509	7/16 X .812 X .120 ARP CHAMFER WASHER	1
5	400-8530	5/16X.625X.120 SS WASHER- ARP	2
6	516-024-SS-JN	5/16-24-SS JAM NUT	1
7	516-024-SS-JN-LH	5/16-24-SS JAM NUT	1
8	516-075-150-AL-SP	Aluminum Unthreaded Spacer	1
9	516-18-1-SS-SHCS	516-18-1-SS-SHCS	1
10	516-18-500-SS-SHCS	5/16-18 X 5 SS SHCS	1
11	716-14-275-SS-SHCS	7/16-14 X 2.75 SS SHCS	1
12	AML5	5/16-24 AL HEIM JOINT-LEFT HAND	1
13	AMR5	5/16-24 AL HEIM JOINT	1
14	DF1099	BBF CRANKSHAFT PULLEY- FRONT	1
15	DF1101	BBF CRANKSHAFT PULLEY SPACER	1
16	DF1102	STOCK MOUNT ALTERNATOR STANDOFF- BBF	1
17	DF1103	3" 5/16 TURNBUCKLE	1

# Assembly

4	3	2	1																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>SIZE</th> <th>TORQUE</th> <th>LOCTITE</th> </tr> <tr> <td>7/16-14</td> <td>30LBFT</td> <td>Y</td> </tr> <tr> <td>3/8-16</td> <td>30LBFT</td> <td>Y</td> </tr> <tr> <td>5/16-18</td> <td>15LBFT</td> <td>Y</td> </tr> </table>		SIZE	TORQUE	LOCTITE	7/16-14	30LBFT	Y	3/8-16	30LBFT	Y	5/16-18	15LBFT	Y	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="5">REVISIONS</th> </tr> <tr> <th>ZONE</th> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> <tr> <td></td> <td>A</td> <td>INITIAL RELEASE</td> <td>4/11/2022</td> <td>DD</td> </tr> </table>		REVISIONS					ZONE	REV.	DESCRIPTION	DATE	APPROVED		A	INITIAL RELEASE	4/11/2022	DD
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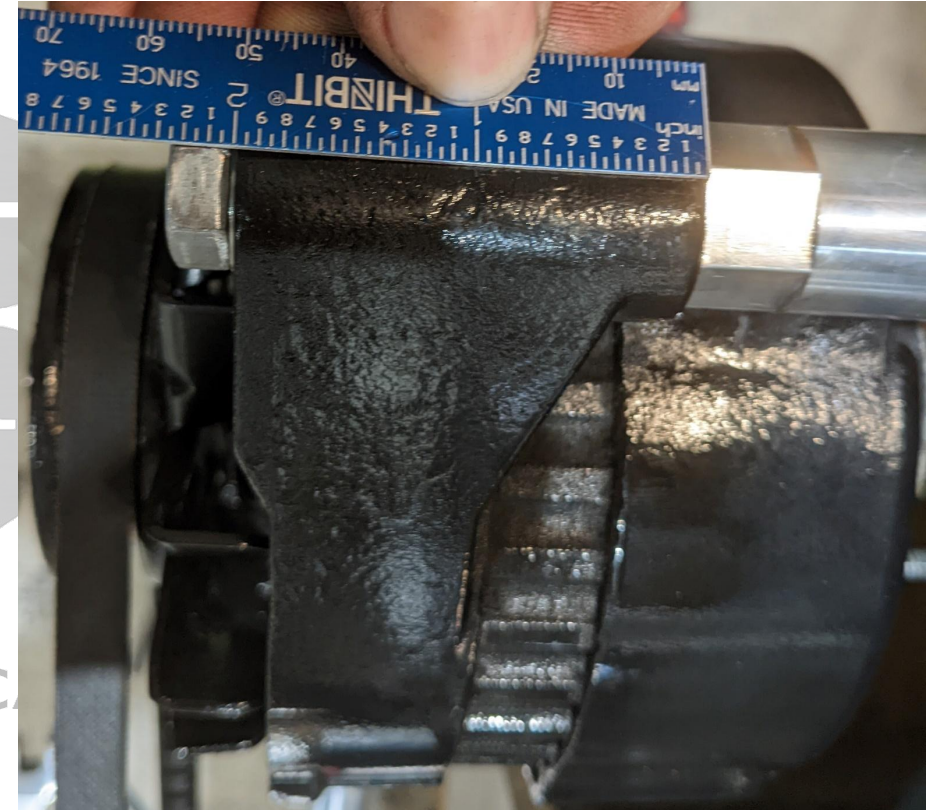
**NOTES:**

- TORQUE FASTENERS PER CHART
- APPLY LOCTITE PER CHART

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# Things to check before installation

- **Verify the alternator you have has a standoff distance of 2" as shown to the right.**
- **If your alternator has a larger or smaller standoff distance this kit WILL NOT WORK.**
- **A Powermaster 7294 or equivalent will fit.**



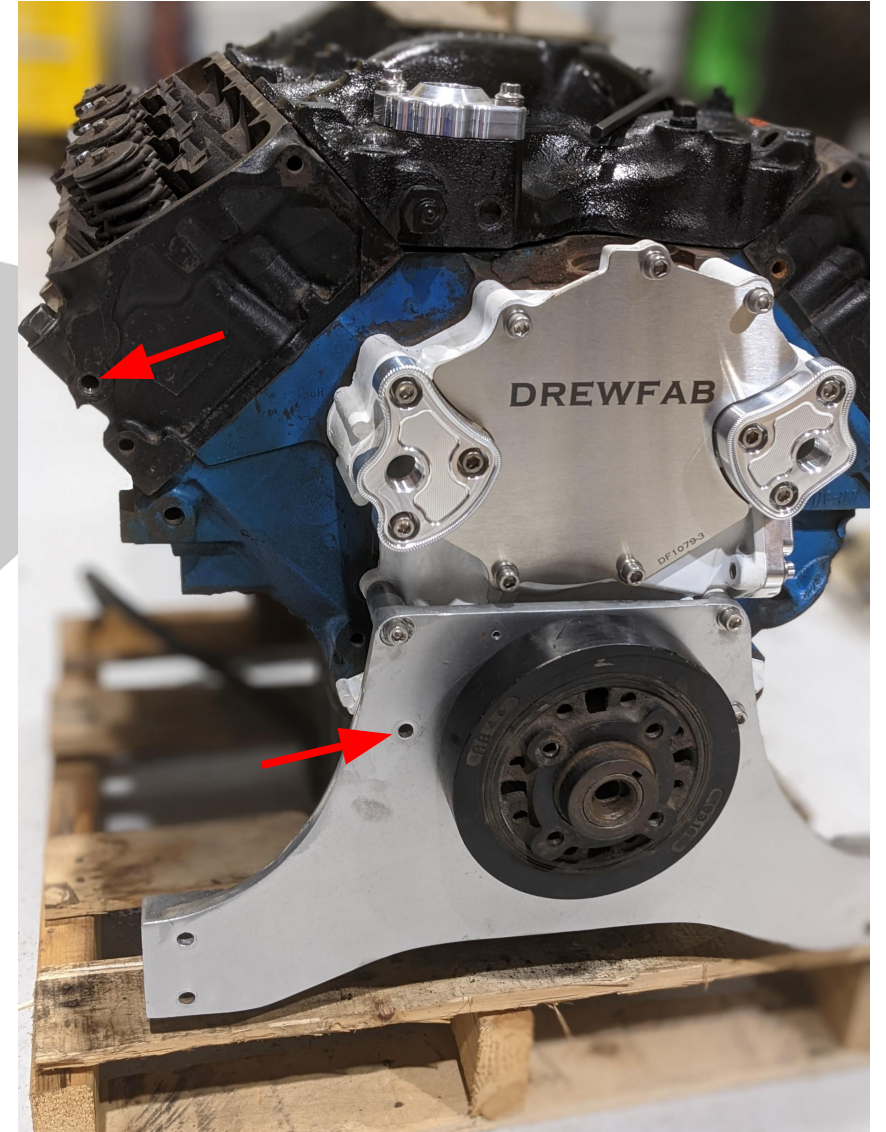
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# Assembly process- step I

- Start with the engine stripped of the old alternator and bracket.
- The 2 holes indicated in the image to the right will be used for mounting.

DF

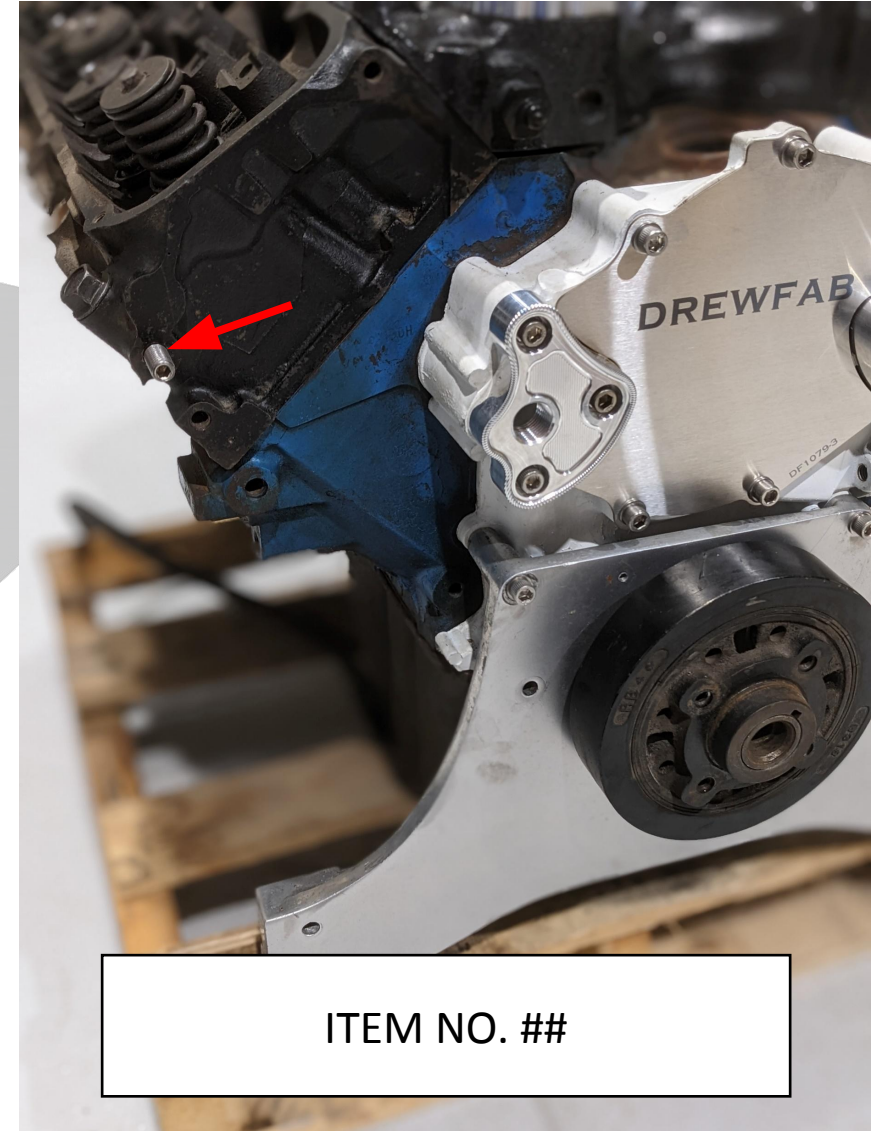
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# Assembly process- step 2

- Use a 7/32 Allen Wrench to install the 7/16-14 Stainless set screw. Bottom it out and snug it up.
- Torque it to 20lbft, if desired.
- Use the provided thread locker on the threads

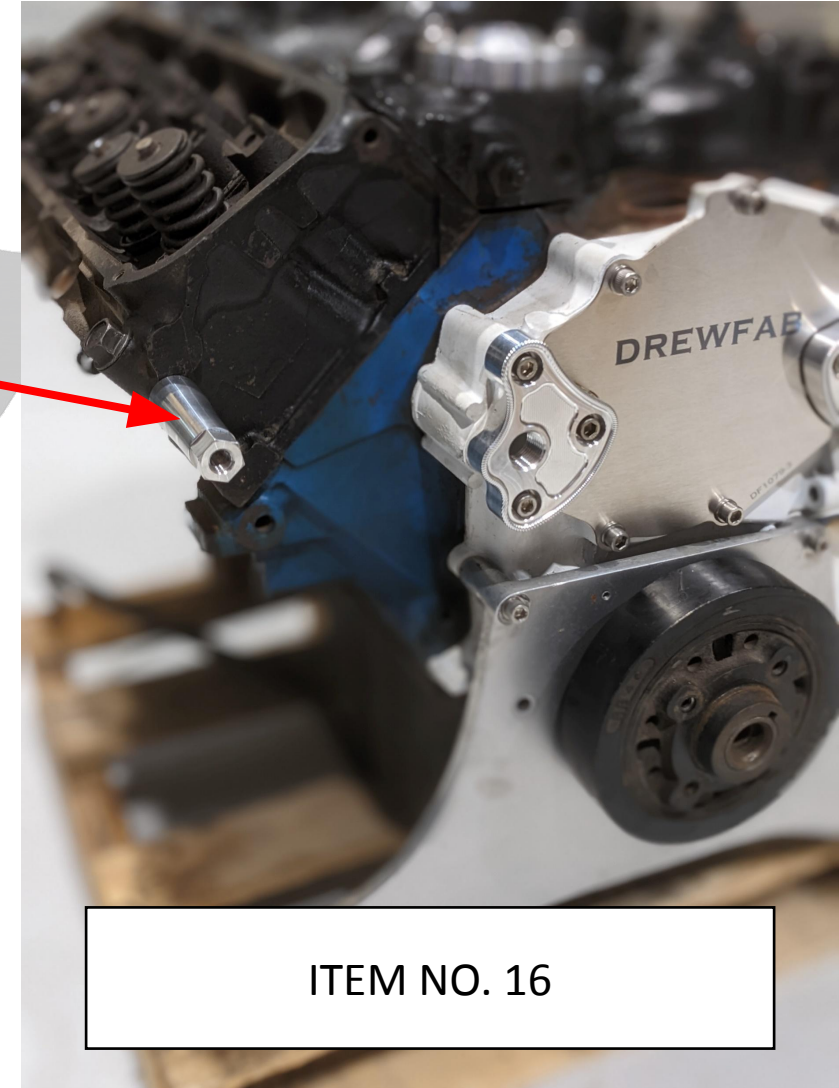
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# Assembly process- step 3

- Install the standoff onto the stud.
- The hex on the standoff is  $\frac{3}{4}$ ".
- Torque the standoff to 30lbft.
- Use the provided thread locker on the threads.

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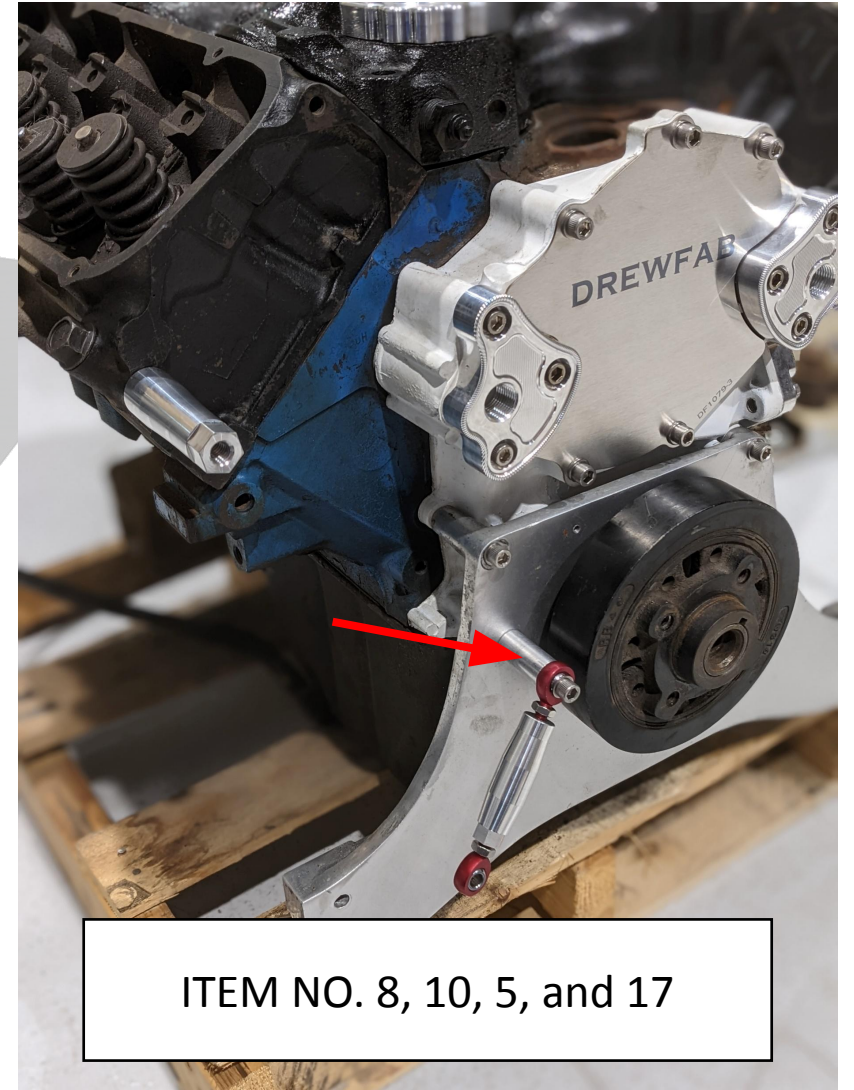


ITEM NO. 16

# Assembly process- step 4

- Install the spacer, 5/16-18 X 5" bolt with washer, and the turnbuckle as shown.
- Note- the turnbuckle is left hand thread on the hex side and right hand thread on the smooth side, rotate accordingly
- Torque the bolt to no more than 20lbft.
- Use the provided thread locker on the threads.

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ITEM NO. 8, 10, 5, and 17



# Assembly process- step 5

- **Install the spacer into the back side of the pulley as shown.**
- **The spacer should “snap” into the pulley, it is a tight fit, push it on, if needed a tap from a dead blow will help too.**

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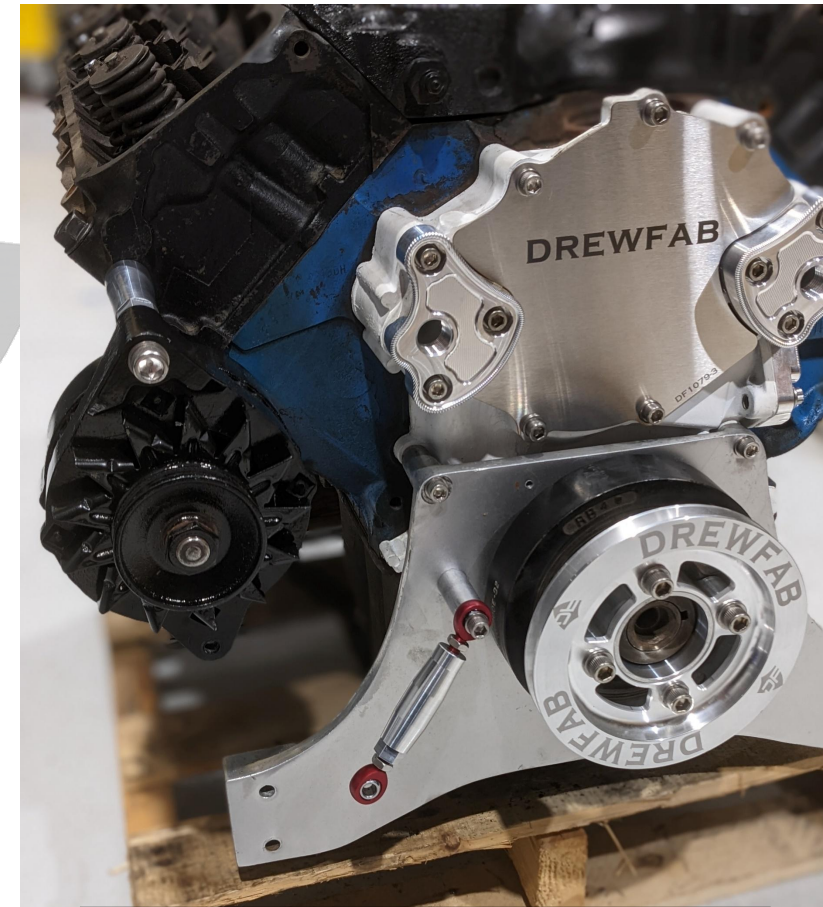


# Assembly process- step 6

- Install the pulley with 3/8-16 x 1-3/4 allen head bolt and washers.
- Torque to 30lbft.



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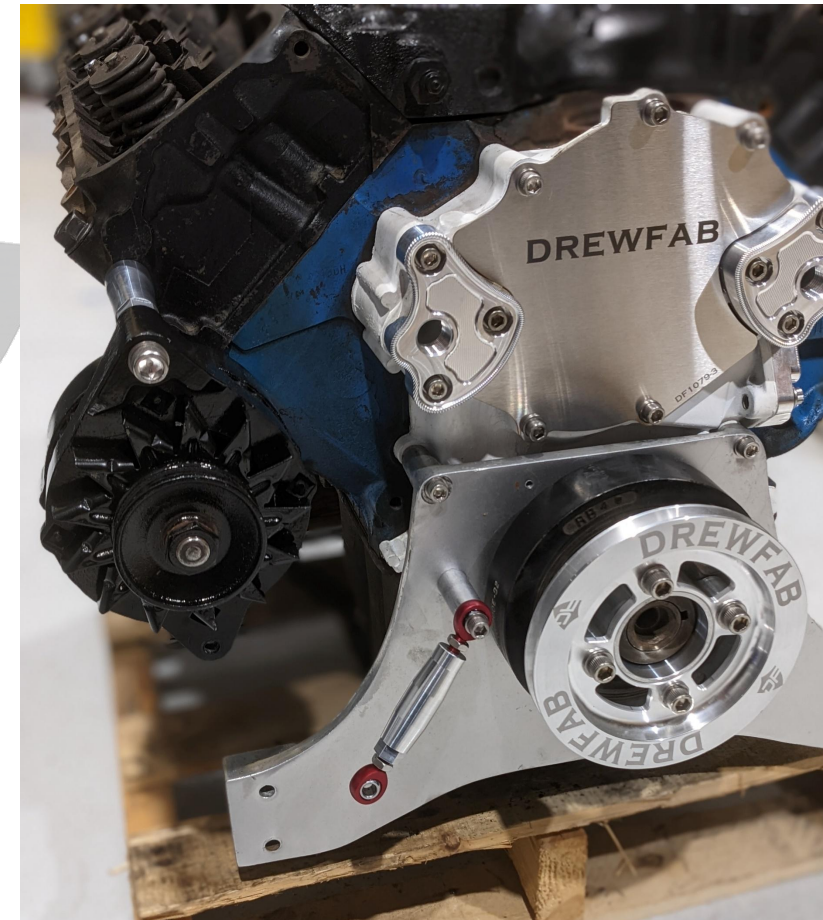
ITEM NO. 1, 3, and 14

# Assembly process- step 7

- **Install the Alternator with the 7/16-14 x 2-3/4 allen head bolt and its washer.**
- **Do not torque this bolt yet, just snug it up so you can still swing the alternator.**

DF

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ITEM NO. 11 and 4

# Assembly process- step 8

- Install the belt, you will probably have to swing the alternator in a little bit.
- The alternator should naturally swing back out on its own providing a small amount of tension on the belt.

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ITEM NO. 2

# Assembly process- step 9

- Snug up the 7/16 bolt at the pivot so it is just slightly beyond hand tight.
- Provide tension on the belt by turning the turnbuckle.
- Note- the turnbuckle is left hand thread on the hex side and right hand thread on the smooth side, rotate accordingly
- The belt should be tensioned until it moves up and down no more than 1/2".
- Torque the 7/16 bolt to 30lbft.
- Tighten the jam nuts on the turnbuckle.

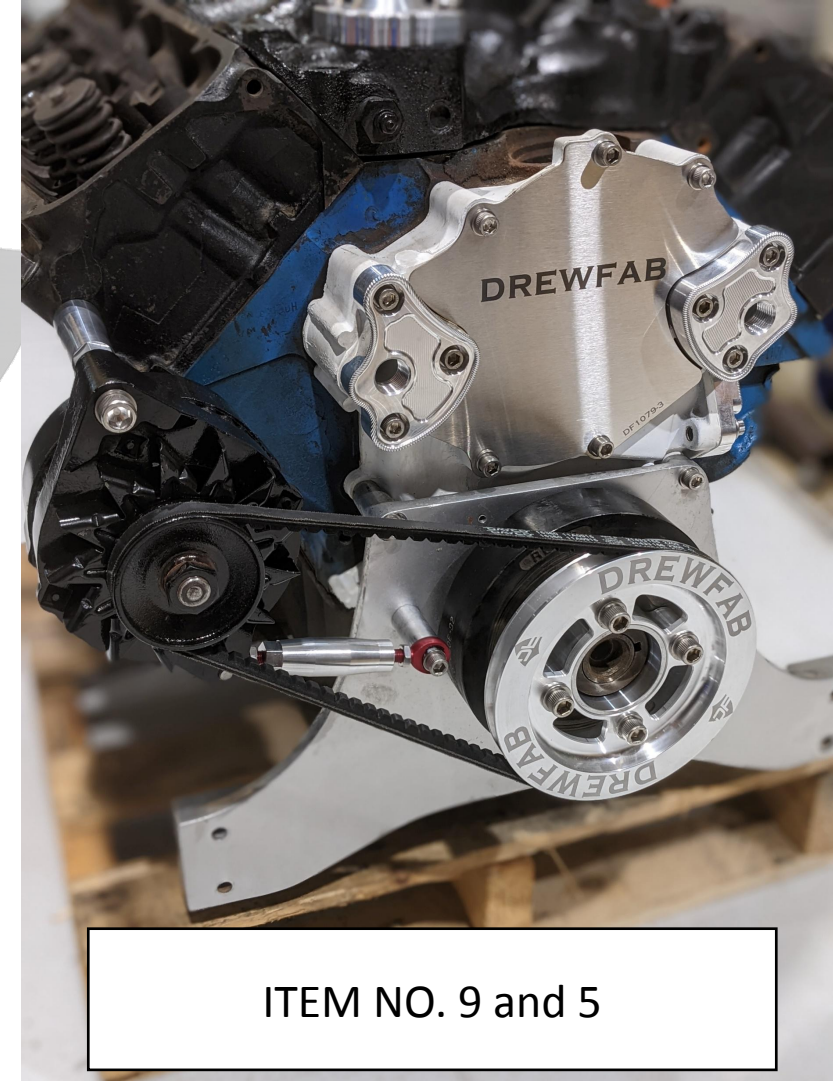
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# Assembly process- step 10

- Install the 5/16-18 x 1 allen head bolt and its washer from the back side of the alternator through the other heim joint on the turnbuckle.
- Do not exceed 15lbft torque.
- Apply a small amount of thread locker

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ITEM NO. 9 and 5

# Assembly checks

- **Verify the belt is aligned properly. The belt should be aligned within  $\sim 1/32''$ . Any more than this the belt will eat itself.**
- **If your belt is misaligned, or something is wrong, DO NOT run the engine. Please call us so we can help resolve it.**
- **If you run the engine with a misaligned belt or mis fitted part the warranty is void. Please contact us prior to starting the engine if you have any questions or concerns.**

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