

DF 1099-100 ASSEMBLY INSTRUCTIONS



DREWFAB
Lakeside, CA

FORD 429/460 WATER INLET 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

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

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

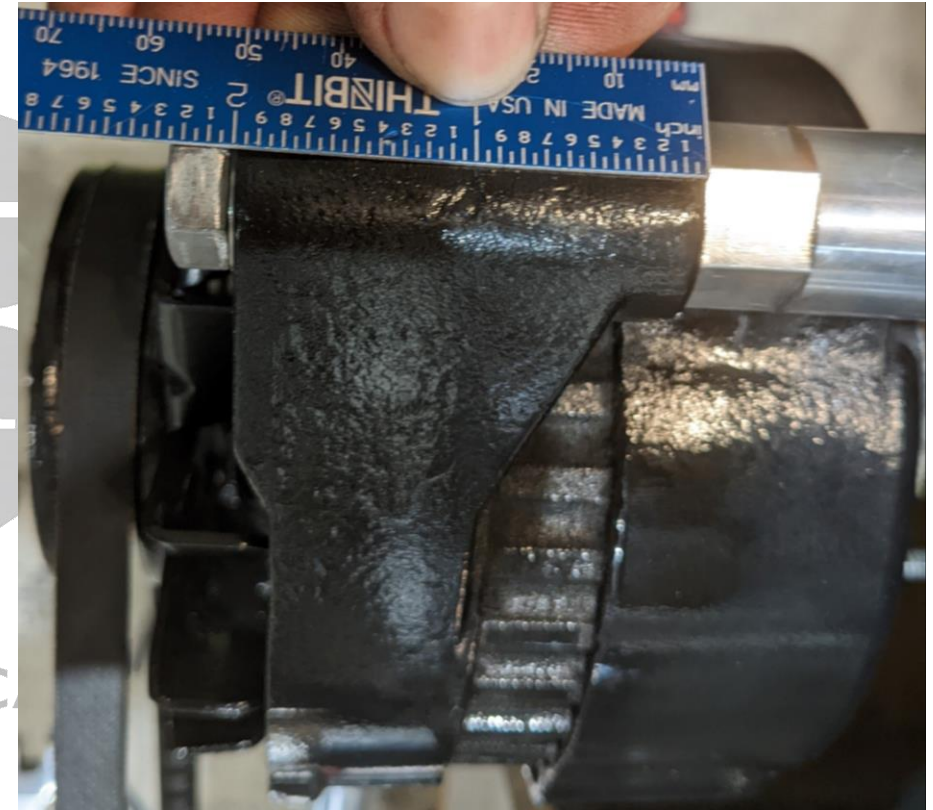
NOTES:

- TORQUE FASTENERS PER CHART
- APPLY LOCTITE PER CHART

SURFACE FINISH: √ 32 μin RA	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± .5 BEND ± 1 TWO PLACE DECIMAL ± .010 THREE PLACE DECIMAL ± .005	NAME: ddominiqu@022-04-1 DATE: 022-04-1 DRAWN: [] CHECKED: [] ENG APPR: [] MFG APPR: [] Q.A.: []	TITLE: BBF FRONT MOUNT ALTERNATOR KIT
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DREW FAB INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DREW FAB INC IS PROHIBITED.	INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5 2009 MATERIAL: FINISH: DO NOT SCALE DRAWING		
		SIZE: B DWG. NO.: DF1099-100 SCALE: 1:8 WEIGHT:	REV: A SHEET 1 OF 1

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.**

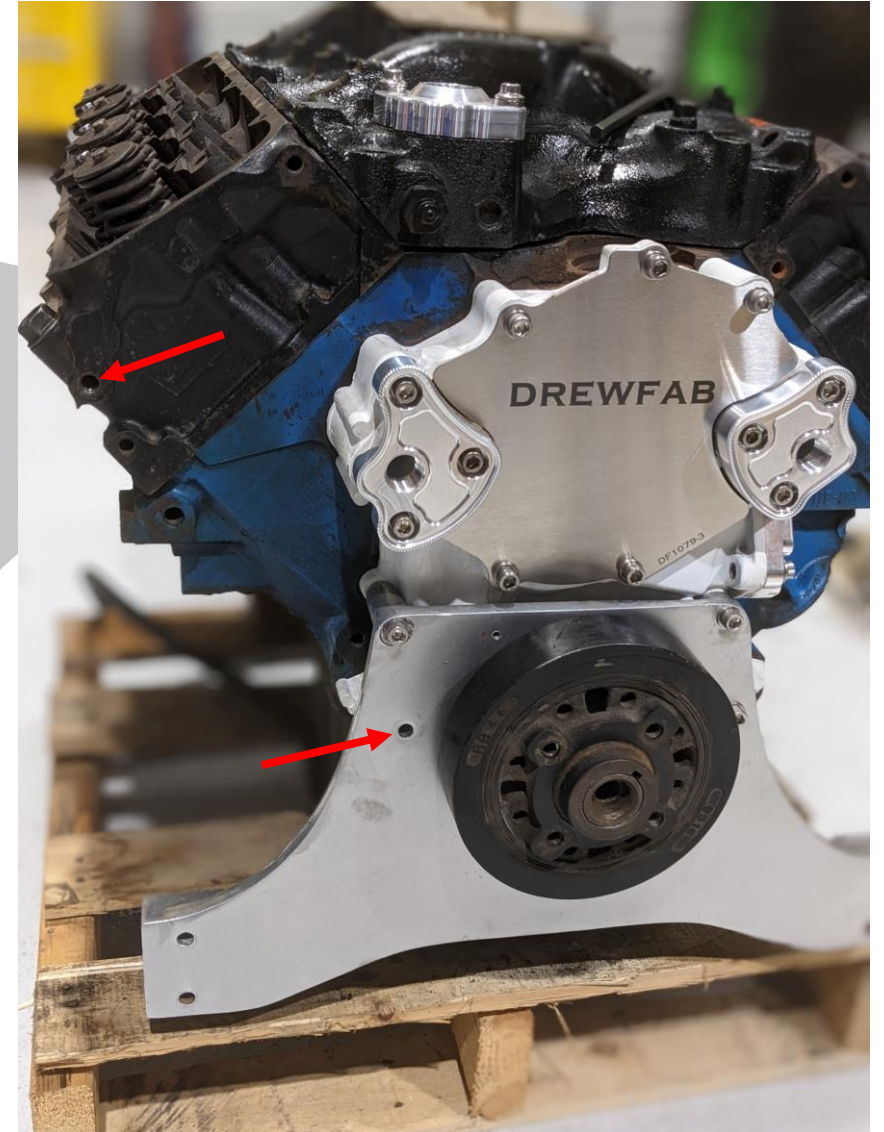


DREWFAB
Lakeside, CA

ASSEMBLY PROCESS- STEP 1

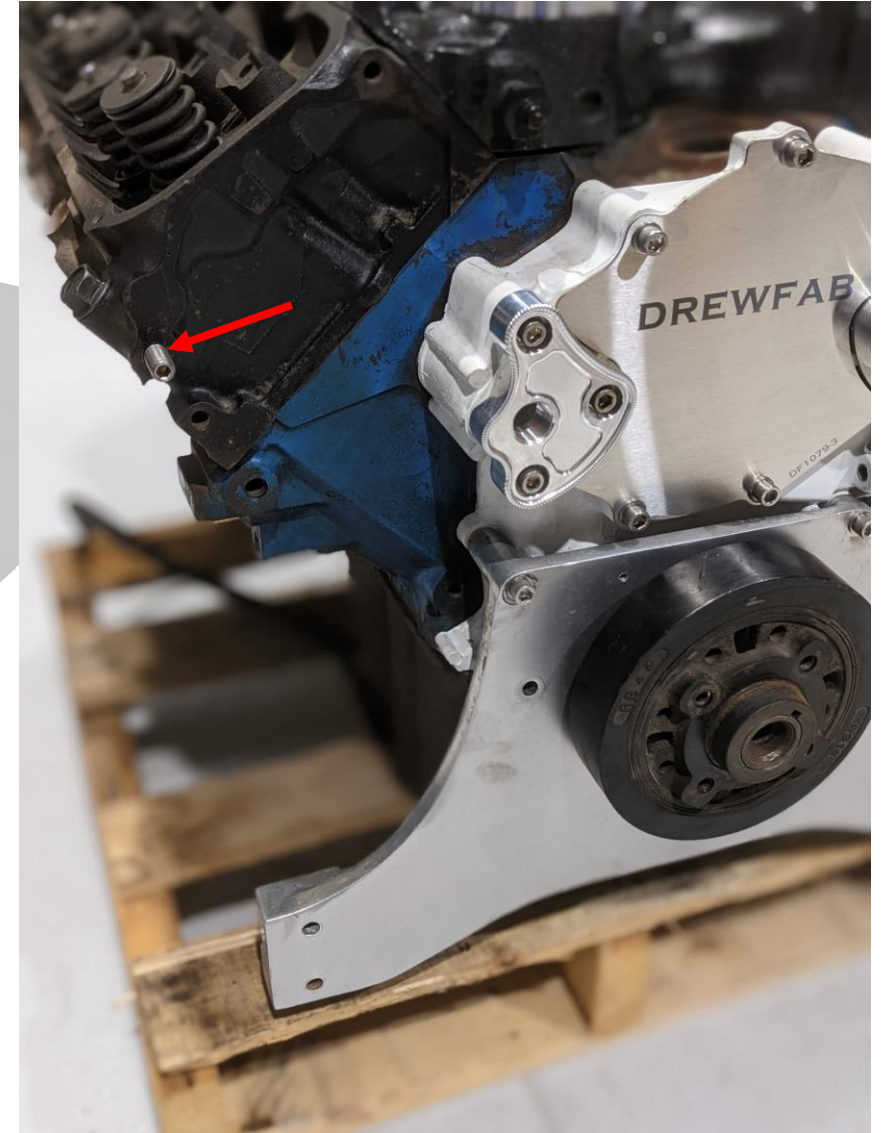
- **START WITH THE ENGINE STRIPPED OF THE OLD ALTERNATOR AND BRACKET.**
- **WE WILL BE USING THE 2 HOLES INDICATED IN THE IMAGE TO THE RIGHT FOR MOUNTING.**

DREWFAB
Lakeside, CA



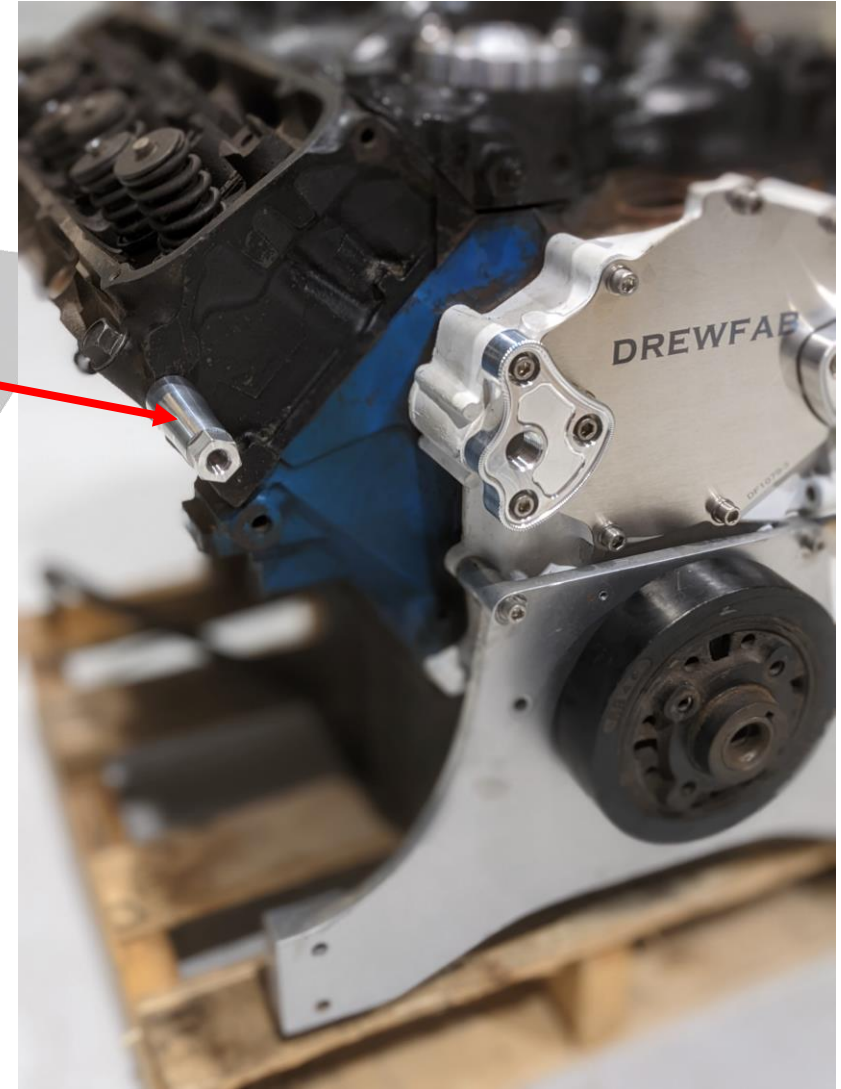
ASSEMBLY PROCESS- STEP 2

- **INSTALL THE 7/16-14 STAINLESS SET SCREW. USE A 7/32 ALLEN WRENCH. BOTTOM IT OUT AND SNUG IT UP.**
- **YOU CAN TORQUE IT IF DESIRED TO 20LBFT.**
- **USE THE PROVIDED THREAD LOCKER ON THE THREADS**



ASSEMBLY PROCESS- STEP 3

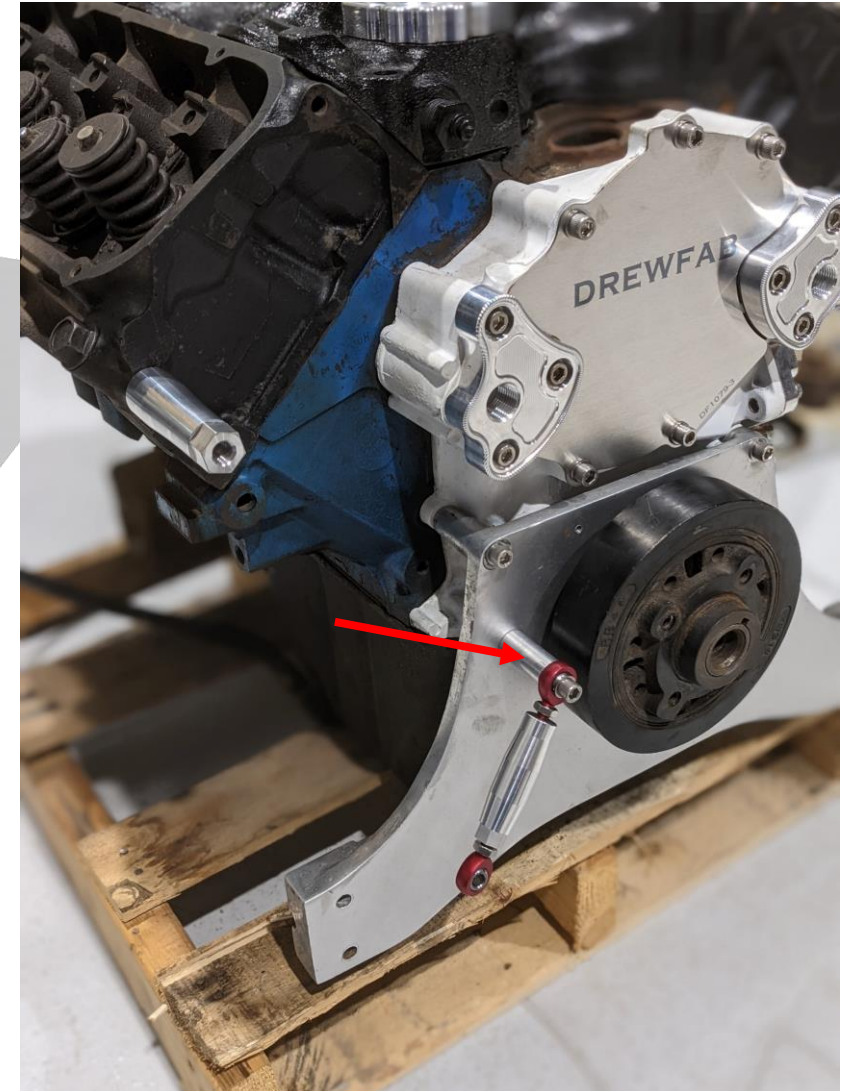
- **INSTALL THE STANDOFF ONTO THE STUD.**
- **THE HEX ON THE STANDOFF IS $\frac{3}{4}$ ".**
- **TORQUE THE STANDOFF TO 30LBFT.**
- **USE THE PROVIDED THREAD LOCKER ON THE THREADS.**



ASSEMBLY PROCESS- STEP 4

- **INSTALL THE SPACER, 5” LONG 5/16 BOLT WITH ITS WASHER, AND THE TURNBUCKLE AS SHOWN.**
- **TORQUE THE BOLT TO NO MORE THAN 20LBFT.**
- **USE THE PROVIDED THREAD LOCKER ON THE THREADS.**

DREWFAB
Lakeside, CA



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.**

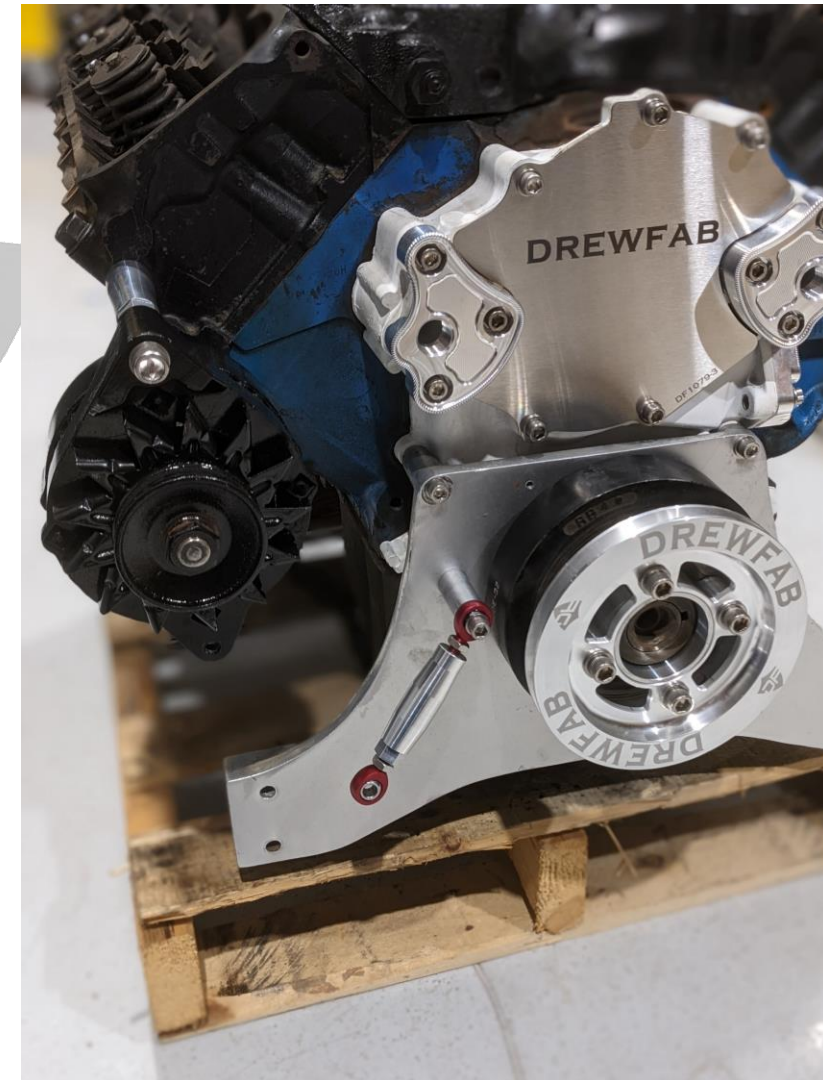
DREWFAB
Lakeside, CA



ASSEMBLY PROCESS- STEP 6

- **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.**

DREWFAB
Lakeside, CA



ASSEMBLY PROCESS- STEP 7

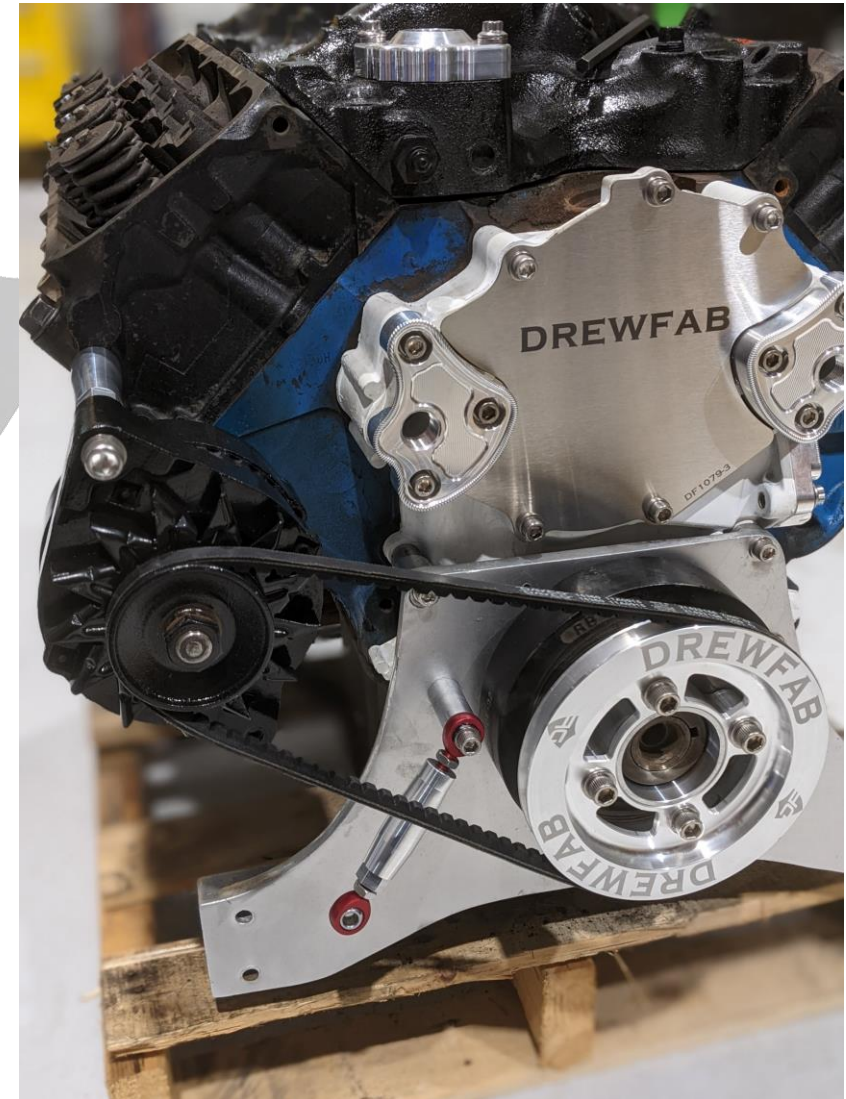
- **INSTALL THE BELT, YOU WILL PROBABLY HAVE TO SWING THE ALTERNATOR IN A LITTLE BIT.**
- **THE ALTERNATOR SHOULD NATURALLY SWING BACK OUT ON ITS OWN PROVIDING A SMALL AMOUNT OF TENSION ON THE BELT.**

DREWFAB
Lakeside, CA



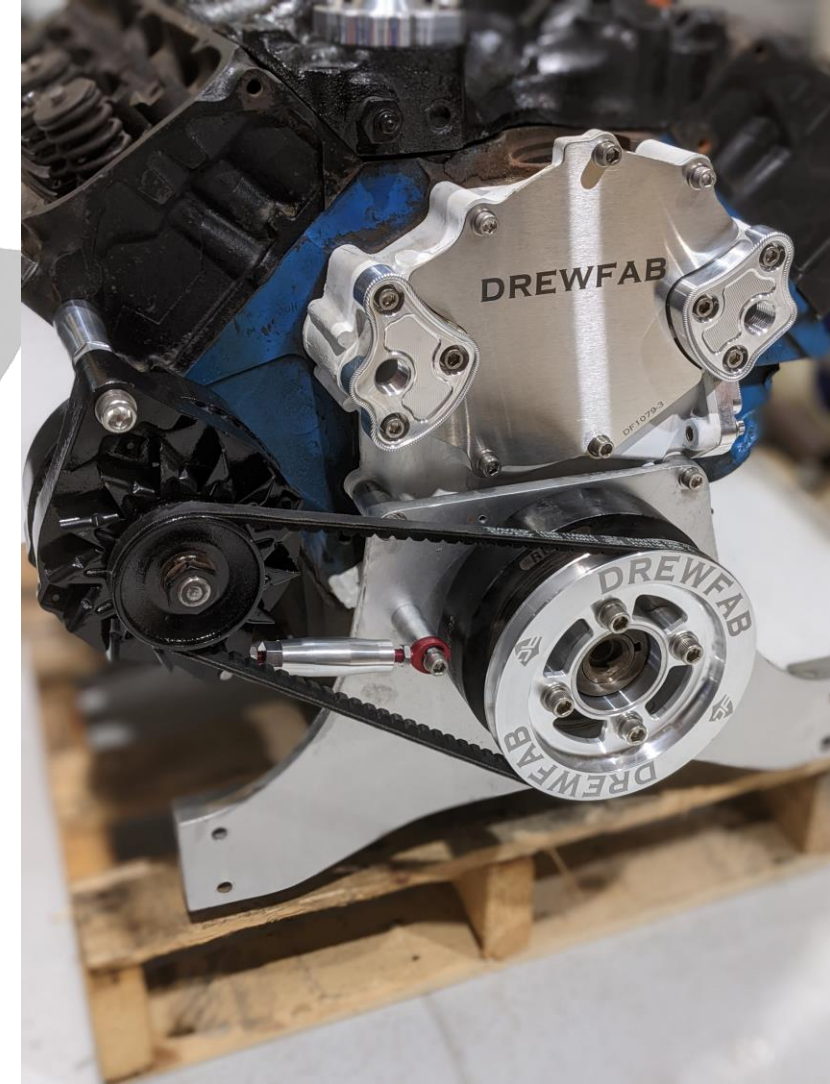
ASSEMBLY PROCESS- STEP 8

- **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.**



ASSEMBLY PROCESS- STEP 9

- **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**



DREWFAB
Lakeside, CA

ASSEMBLY CHECKS

- **VERIFY THE BELT IS ALIGNED PROPERLY. THE BELT SHOULD BE ALIGNED WITHIN ~ 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.**

