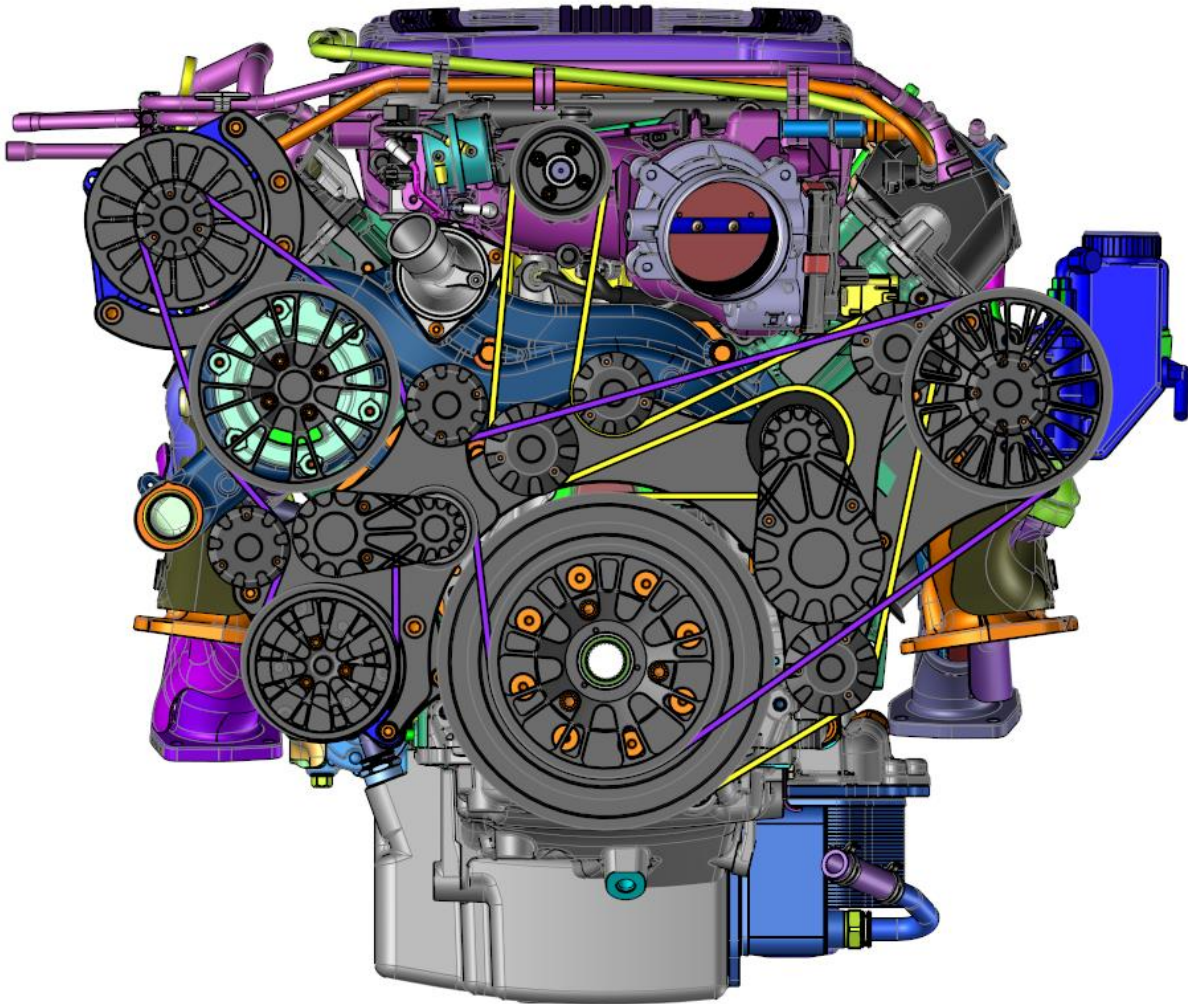




LTSC-RP REV A INSTALL INSTRUCTIONS

****Instructions are for several Superchargers.****

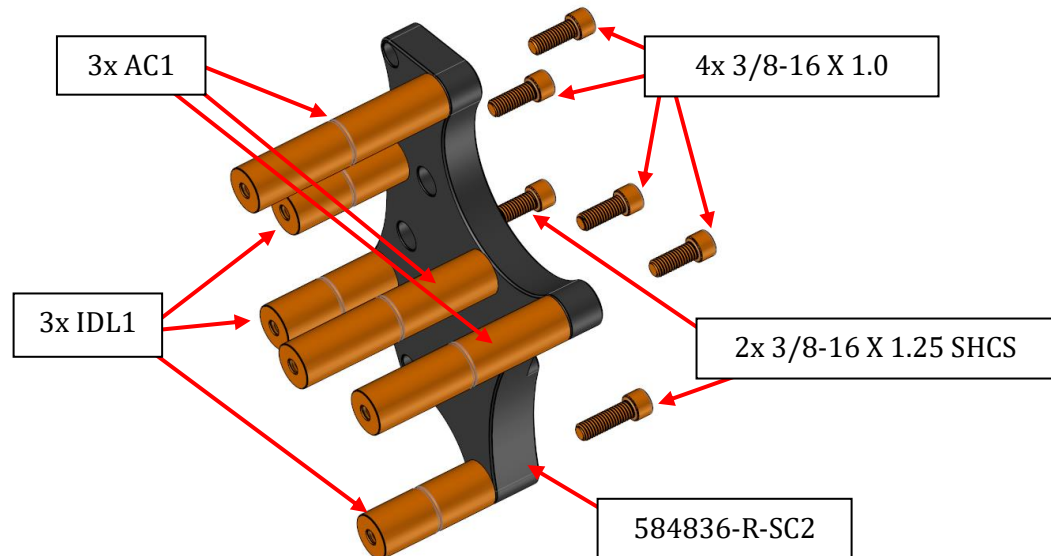


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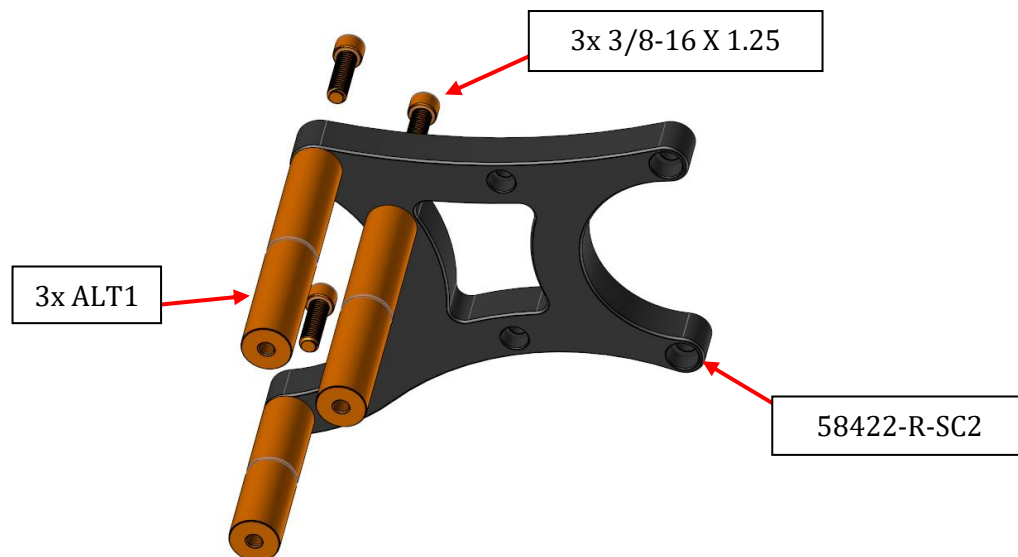
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LTSC-RP REV A INSTALL INSTRUCTIONS

1. Assemble the spacers to the rear support brackets.
 - a. Bracket is in the box labeled LT4TEN-SC2-RP. Spacers and Bolts are in the box labeled LT4-W-SPC (wet) or LT4-D-SPC (dry)

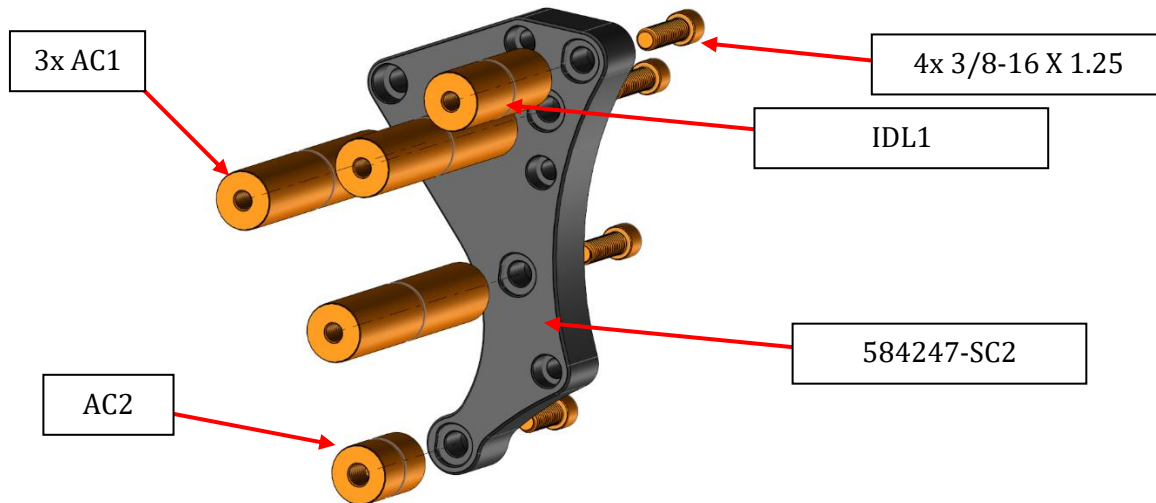


- b. Bracket is in the box labeled LT4ALT-SC2-RP. Spacers and Bolts are in the box labeled LT4-W-SPC (wet) or LT4-D-SPC (dry)

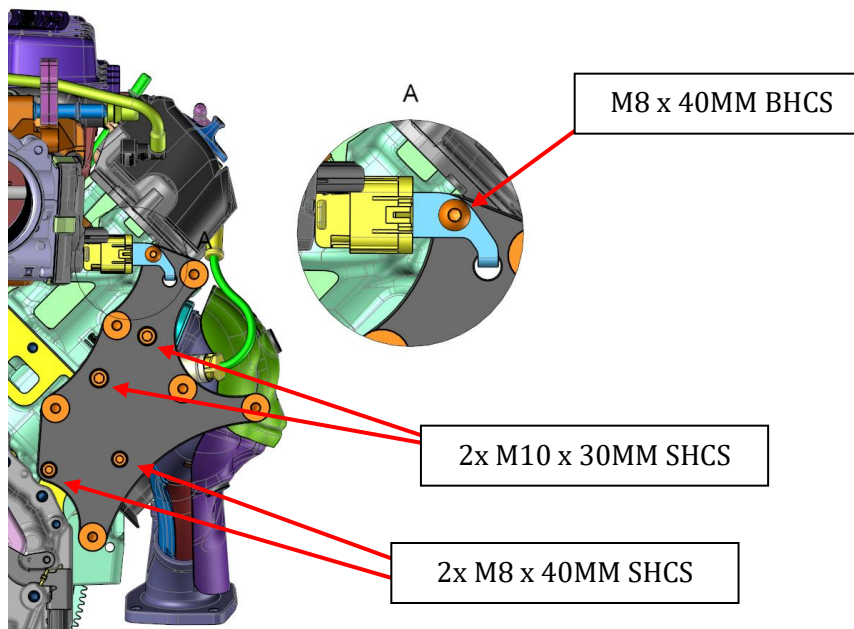


LTSC-RP REV A INSTALL INSTRUCTIONS

- c. Bracket is in the box labeled LT4AC-SC2-RP. Spacers and Bolts are in the box labeled LT4-W-SPC (wet) or LT4-D-SPC (dry). **Note AC2 Spacer, for the dry kit, will be assembled in a later step.

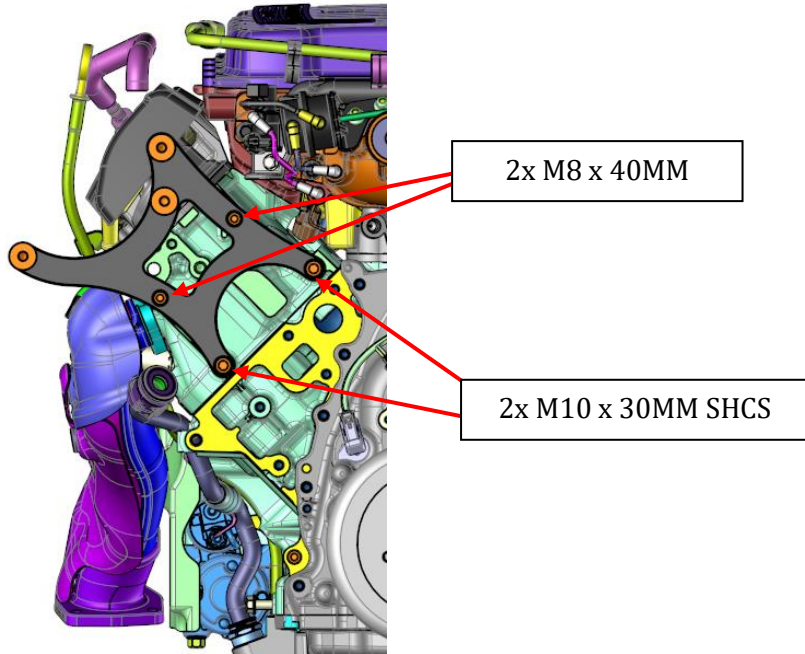


2. Assemble the pre-assembled rear support brackets to the engine
- a. Mounting hardware can be found in box LT4TEN-SC2-RP. Remove wire harness and reassemble as shown below if applicable. Sheet metal harness bracket may need to be adjusted

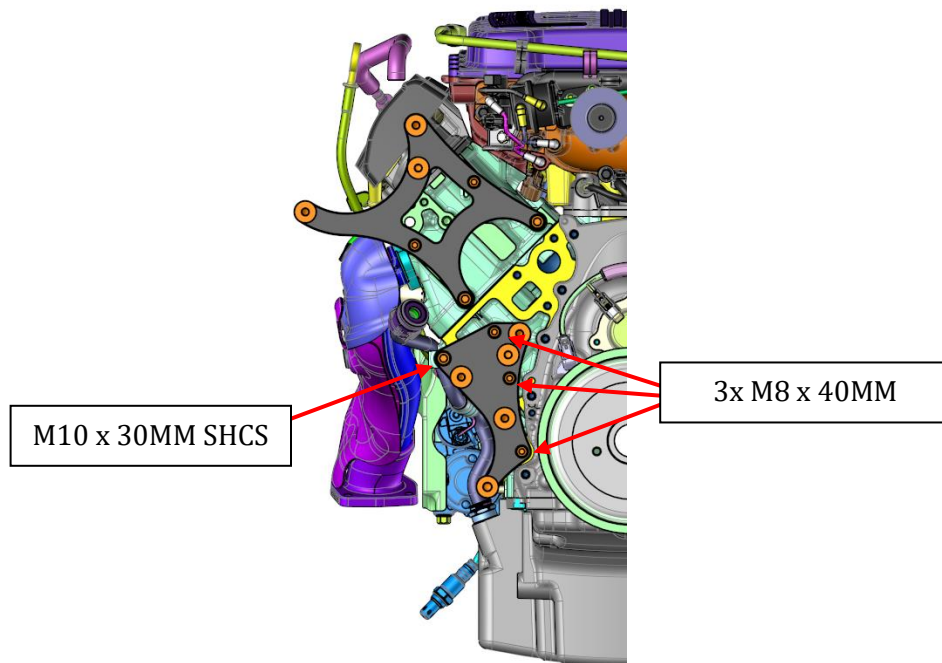


LTSC-RP REV A INSTALL INSTRUCTIONS

- b. Mounting hardware can be found in box LT4ALT-SC2-RP

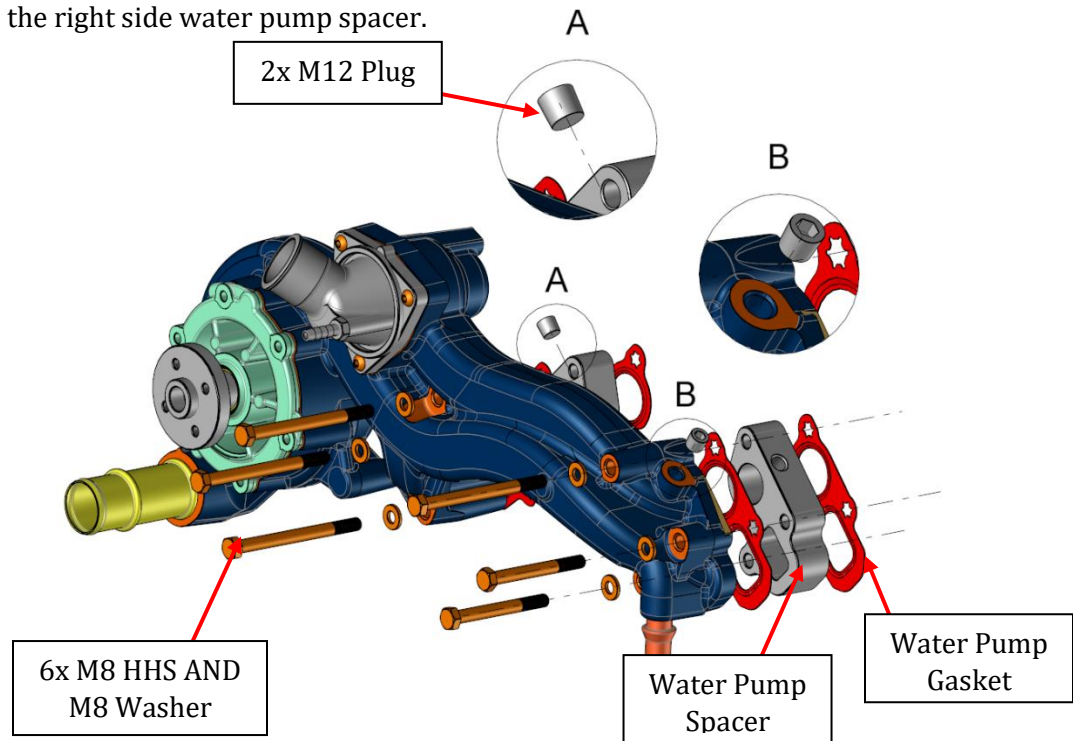


- c. Mounting hardware can be found in box LT4AC-SC2-RP+

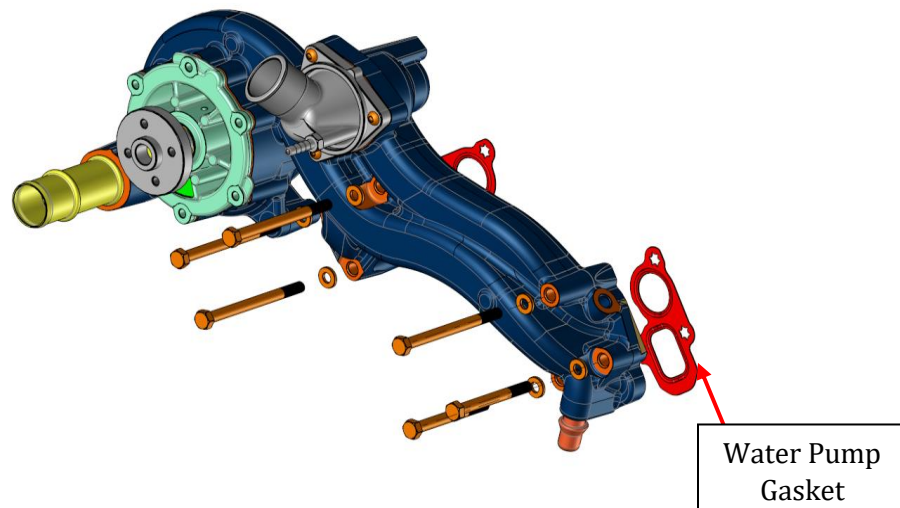


LTSC-RP REV A INSTALL INSTRUCTIONS

3. Attach the water pump to the engine.
 - c. Wet sump kits will include 1" water pump spacers, an extra set of water pump gaskets, and M12 plugs. Install plugs where shown. Install temperature sensor in the right side water pump spacer.



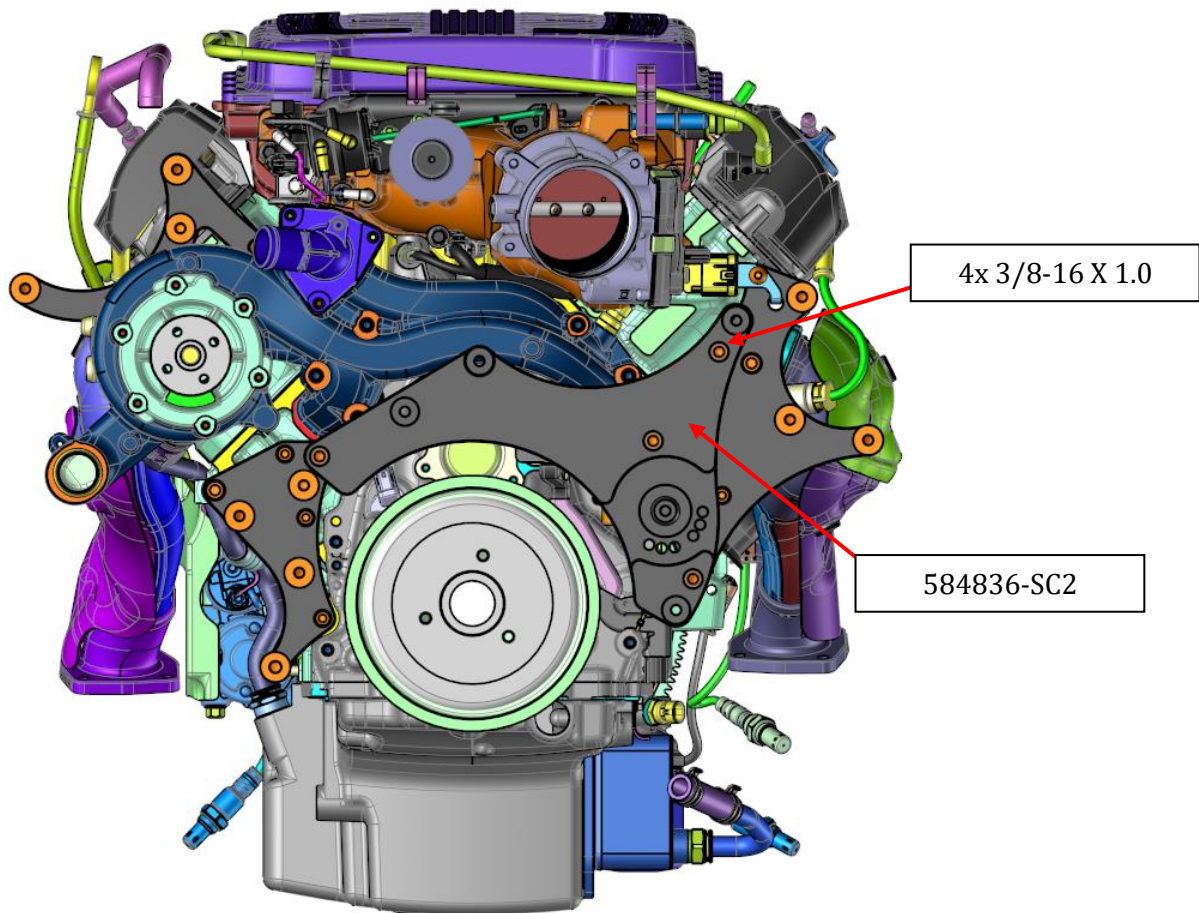
- d. Dry sump kits do not require spacers and use the screws that come with the water pump





LTSC-RP REV A INSTALL INSTRUCTIONS

4. Mount the center plate to the spacers. Bracket and mounting hardware can be found in the box LT4TEN-SC2-RP



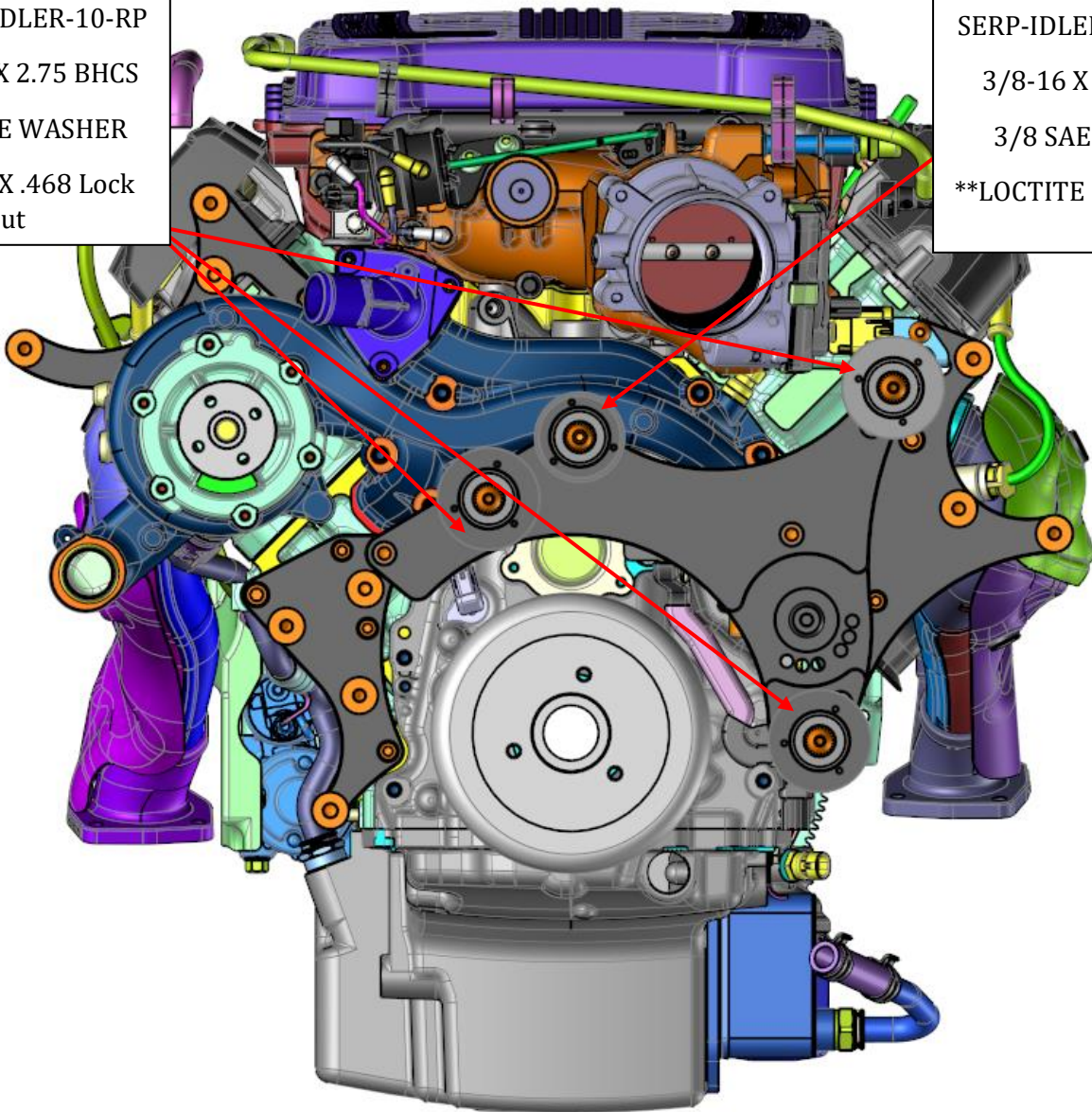


LTSC-RP REV A INSTALL INSTRUCTIONS

5. Mount idlers to the center plate. Mounting hardware can be found in the box LT4TEN-SC2-RP.

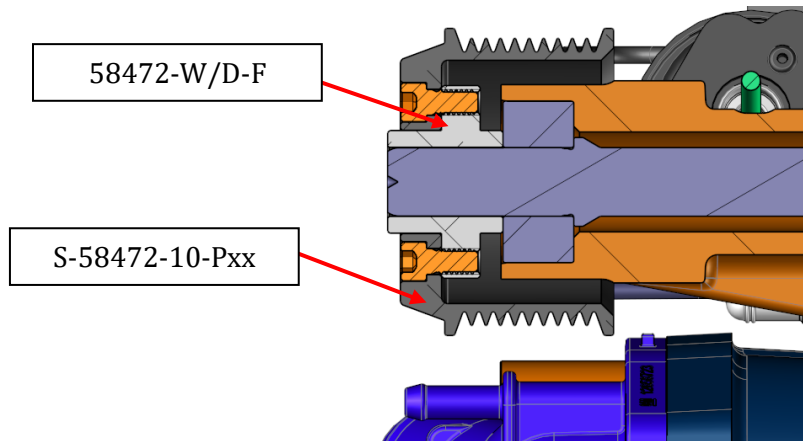
3x S-SERP-IDLER-10-RP
3x 3/8-16 X 2.75 BHCS
3x 3/8 SAE WASHER
3x 3/8-16 X .468 Lock
Nut

SERP-IDLER-10-180-RP
3/8-16 X 1.75 BHCS
3/8 SAE WASHER
****LOCTITE REQUIRED****

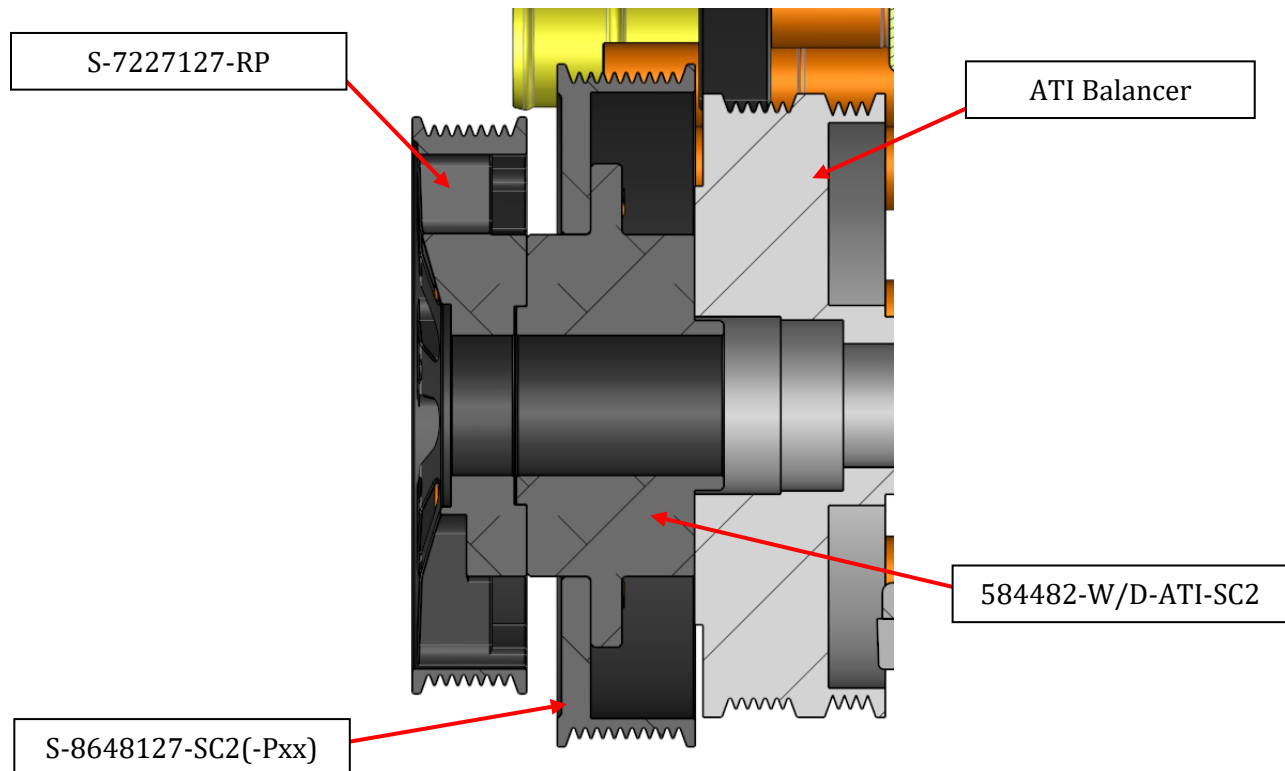


LTSC-RP REV A INSTALL INSTRUCTIONS

- Press on the Supercharger flange, if using a stock supercharger. See below for flange orientation. Press on until it bottoms out. Install the blower pulley with the bolts in the pulley box.



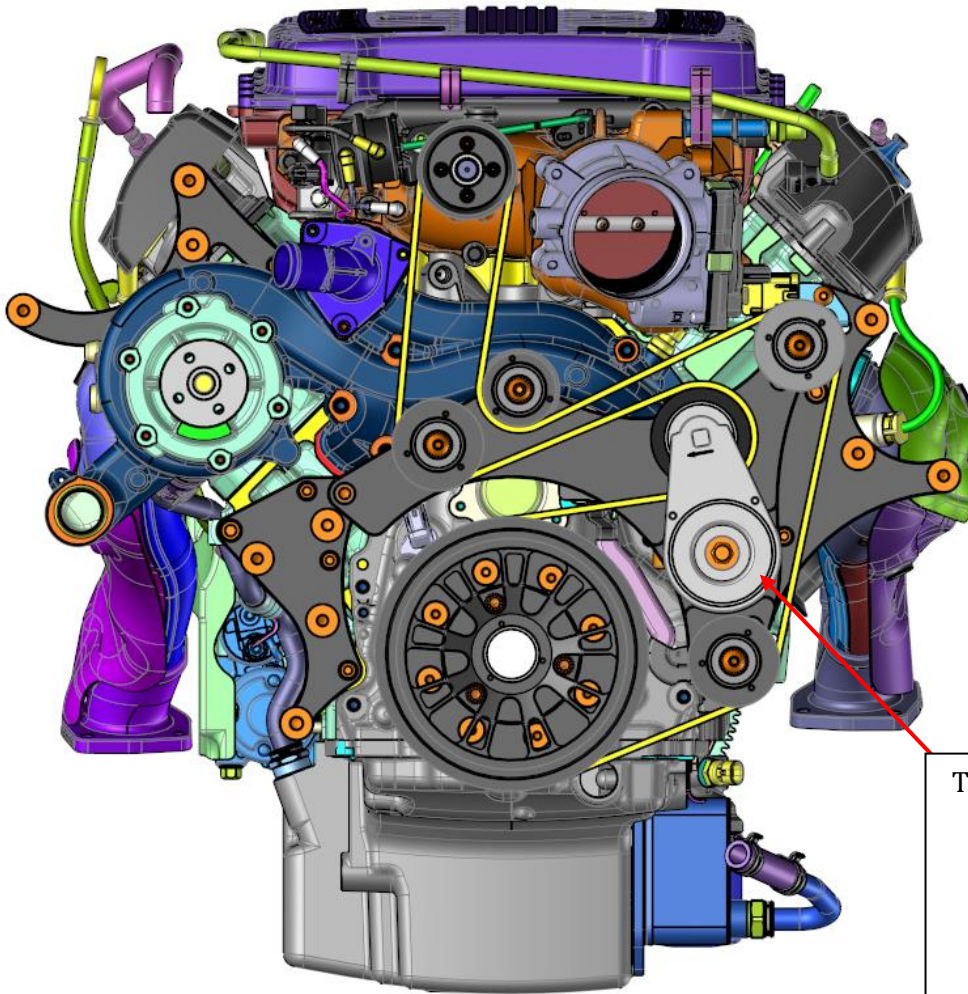
- Install the hub adapter, 10 rib crank pulley, and 8 rib crank pulley. Bolts will be in the pulley and hub boxes





LTSC-RP REV A INSTALL INSTRUCTIONS

8. Install the 10 Rib Belt as shown below with the HD tensioner. Loop the belt around the tensioner with the smooth side of the belt against the tensioner pulley. Then mount the tensioner using the middle hole in the bracket to locate it.



TENSIONER-KIT-10R-
RP

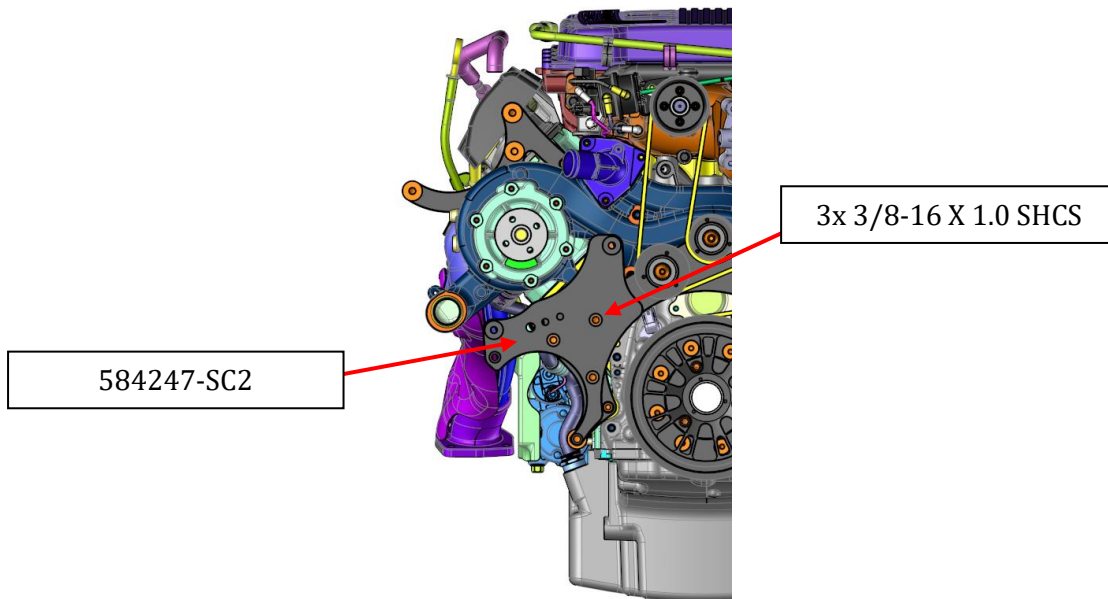
3/8-16 X 4.0 HHS

3/8 USS WASHER

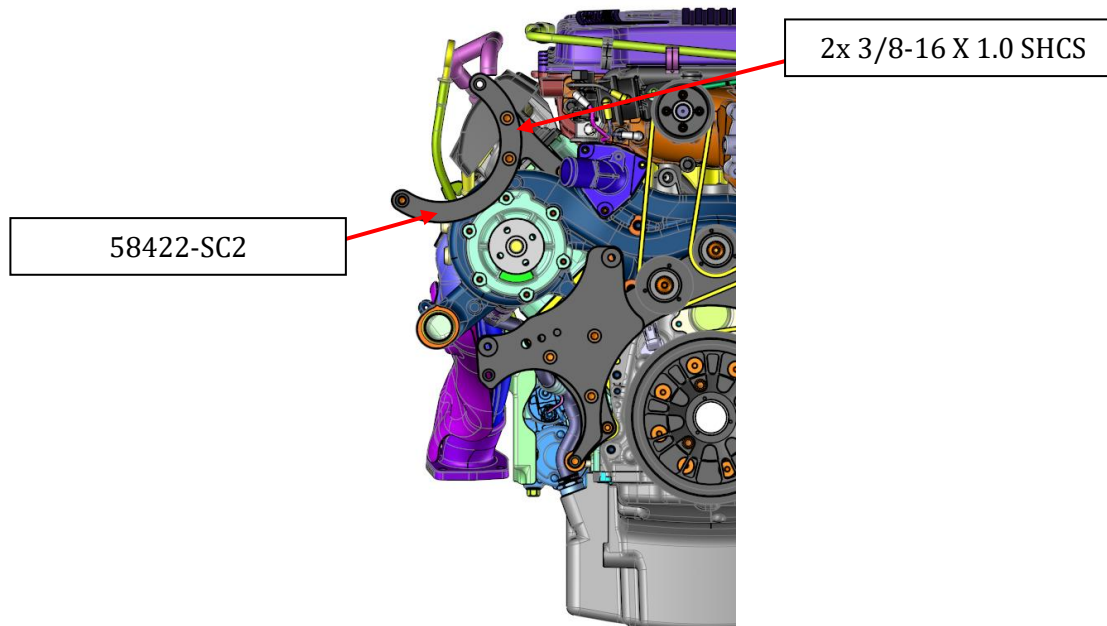
3/8-16 X .468 Lock

LTSC-RP REV A INSTALL INSTRUCTIONS

9. Mount the Front AC Bracket to the spacers. Bracket and mounting bolts can be found in box LT4AC-SC2-RP. Leave the bolts slightly loose.



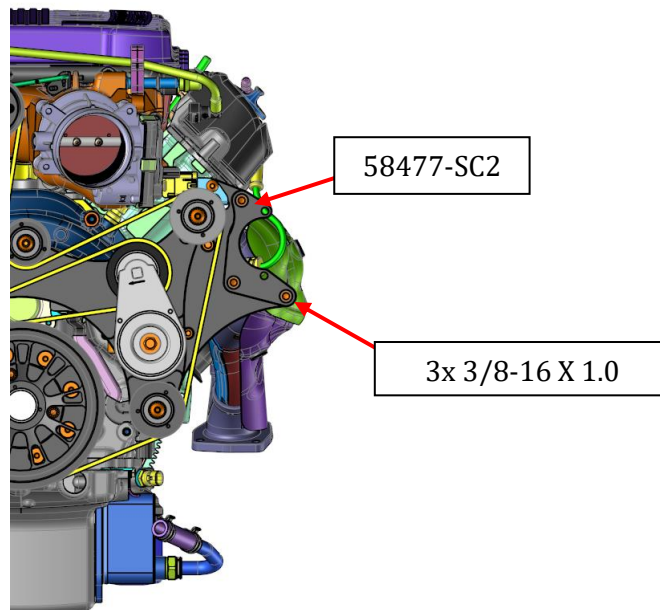
10. Mount the Front ALT Bracket to the spacers. Bracket and mounting bolts can be found in box LT4ALT-SC2-RP. Leave the bolts slightly loose





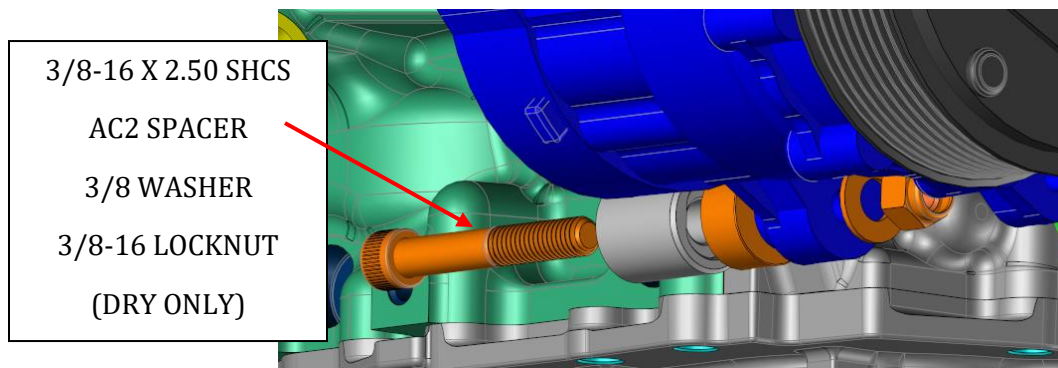
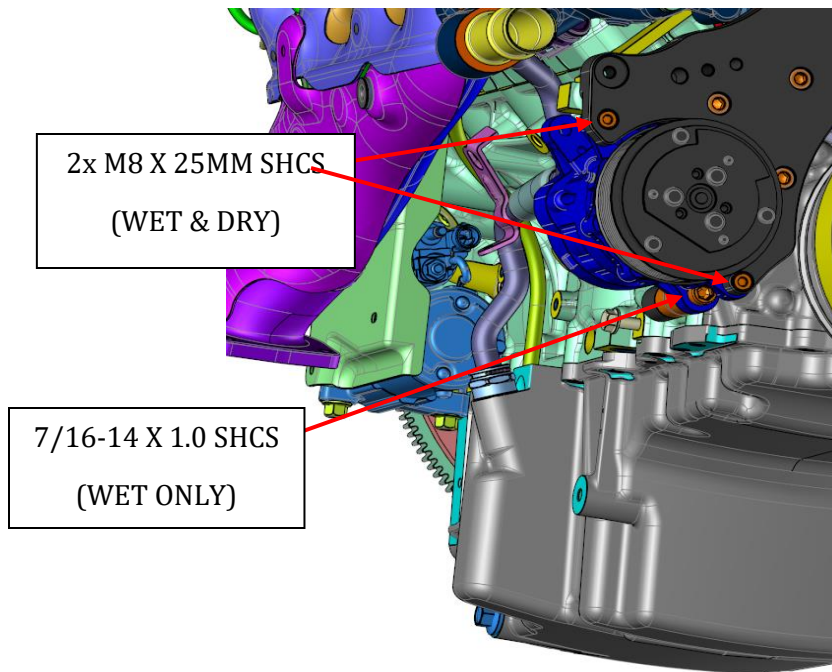
LTSC-RP REV A INSTALL INSTRUCTIONS

11. Mount the Front PS Bracket to the spacers. Bracket and mounting bolts can be found in box LT4PS-SC2. Tighten bolts all the way.



LTSC-RP REV A INSTALL INSTRUCTIONS

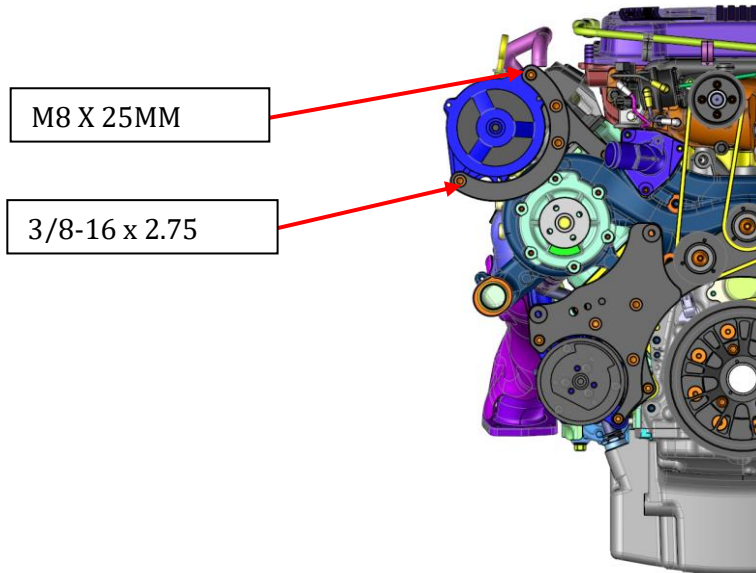
12. Install the AC Compressor. Mounting bolts can be found in box LT4AC-SC2-RP. Tighten all bolts including the 3 in the bracket from Step 9. If you have a kit wit out AC, install the AC-Delete kit.



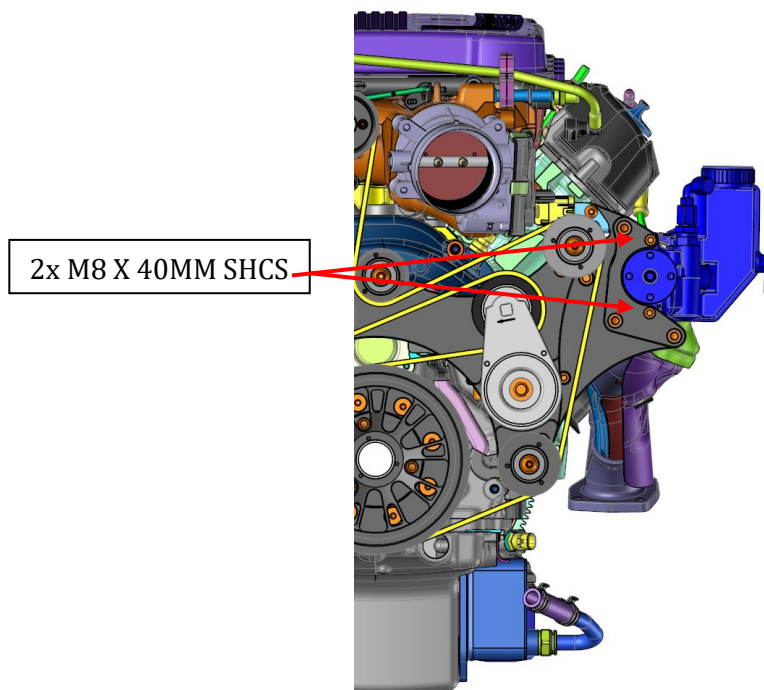
13. Install the alternator. Mounting bolts can be found in box LT4ALT-SC2-RP. Tighten all bolts including the 2 in the bracket from Step 10



LTSC-RP REV A INSTALL INSTRUCTIONS



14. Install the PS Pump. Mounting bolts can be found in box LT4PS-SC2. Tighten all bolts. If you have a kit without a PS Pump, install the PS-Delete kit.

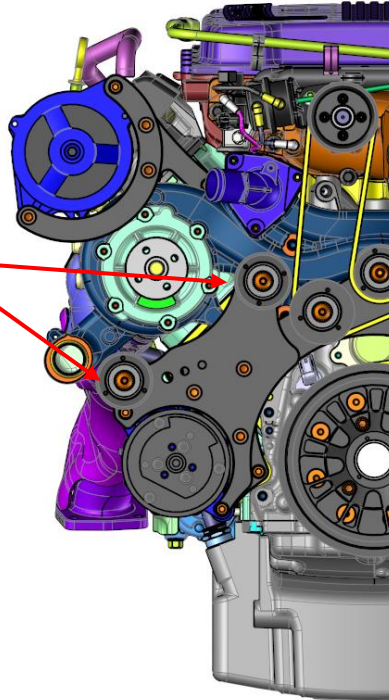


15. Install the idlers



LTSC-RP REV A INSTALL INSTRUCTIONS

2x S-SERP-IDLER-RP
2x 3/8-16 X 2.75 BHCS
2x 3/8 SAE WASHER
2x 3/8-16 X .468 Lock
Nut

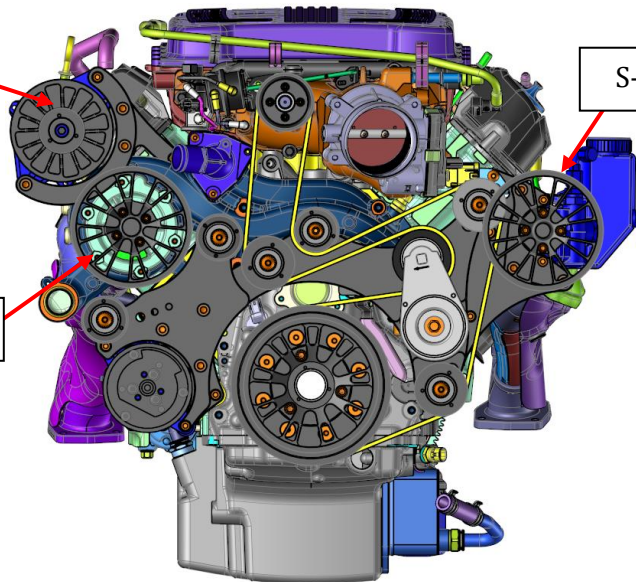


16. Install the Alt Fan and Pulley (installation nut is on the alt shaft). Install the water pump pulley with included bolts in the pulley box. Install PS pulley with the included bolts in the pulley box.

ALTFAN-RP / 258326-RP
S-SBC1ALT-SS-RP / S-7225125-

S-LT41WP-SC-RP / S-584197-SC-

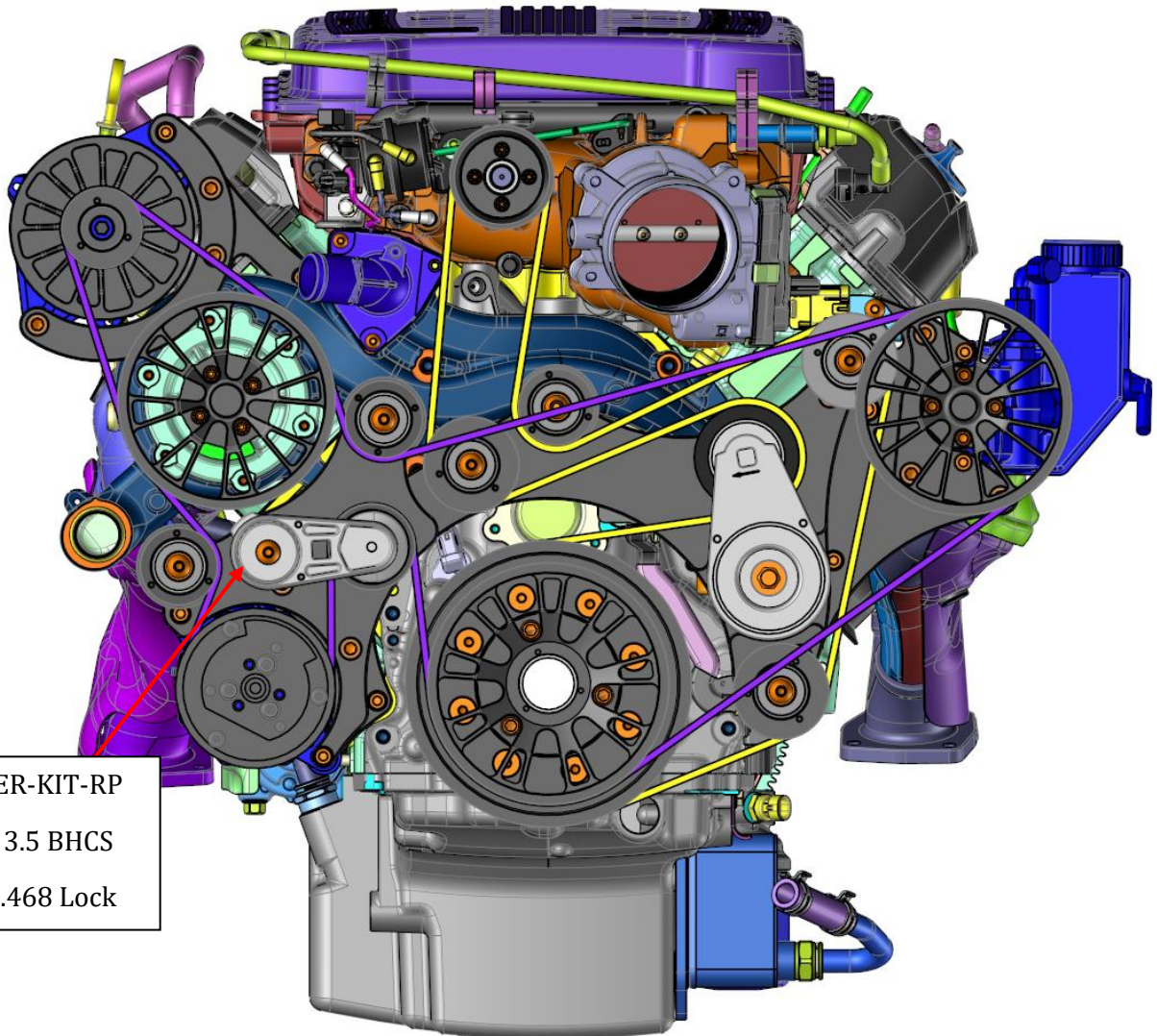
S-LS11PS-A-RP/ S-57177-A-RP





LTSC-RP REV A INSTALL INSTRUCTIONS

17. Install the 8 Rib Belt as shown below with the 8 rib tensioner. Loop the belt around the tensioner with the smooth side of the belt against the tensioner pulley.

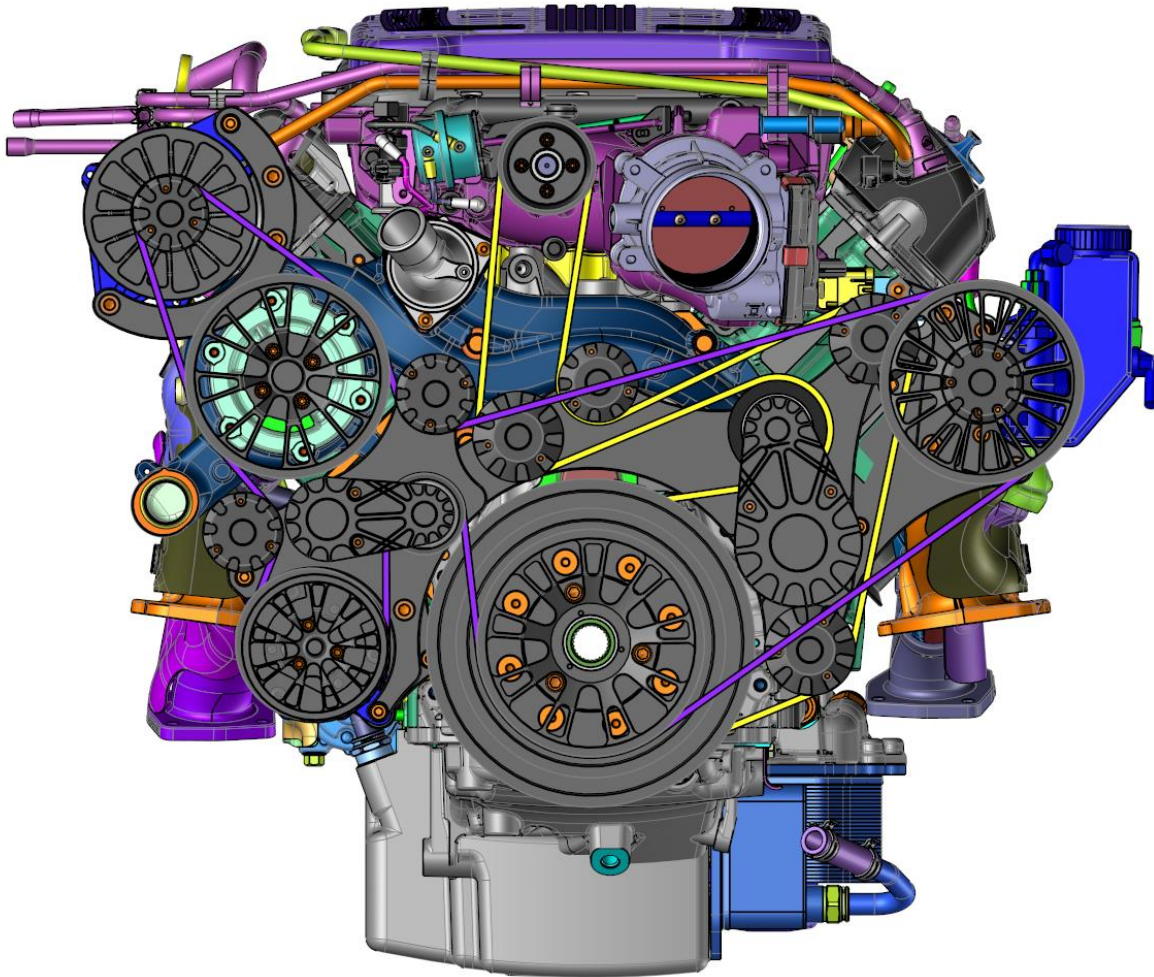


TENSIONER-KIT-RP
3/8-16 X 3.5 BHCS
3/8-16 X .468 Lock



LTSC-RP REV A INSTALL INSTRUCTIONS

18. Install all caps with the bolts included in the pulley, idler, and tensioner boxes









LTSC-RP REV A INSTALL INSTRUCTIONS

Torques Specs:

All torque specs can be found on the last page of this instruction packet provided by Fastenal. We have highlighted all CVF bolts inside the table. Feel free to keep the page and use it for reference in your garage.





Thank you for your purchase from CVF Racing! If you have any questions about your install, check out our support center for install guides, videos, and other helpful tips. If you need further help, our tech staff can be reached M-F from 8-5 PM CST via phone, email, or chat.

METRIC FASTENERS

Nominal Dia. (mm)	Pitch	 Class 4.6			 Class 8.8			 Class 10.9			 Class 12.9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Clamp Load (lbs)	K = 0.15	K = 0.17	K = 0.20	Clamp Load (lbs)	K = 0.15	K = 0.17	K = 0.20	Clamp Load (lbs)	K = 0.15	K = 0.17	K = 0.20
4	0.7	333	7.9 in-lbs	8.9 in-lbs	10.5 in-lbs	858	20.3 in-lbs	23 in-lbs	27 in-lbs	1228	29 in-lbs	32.9 in-lbs	38.7 in-lbs
5	0.8	538	15.9	18.0	21.2	1387	40.9	46.4	54.6	1985	58.6	66.4	78.1
6	1	763	27.0	30.7	36.1	1968	69.7	79.0	92.9	2816	99.8	113.1	133.0
7	1	1095	45.3	51.3	60.3	2822	116.6	132.2	155.5	4039	167	189	223
8	1.25	1389	65.6	74.4	87.5	3580	169.1	191.6	225.4	5123	242	274	323
10	1.5	2200	108.8 ft-lbs	12.3 ft-lbs	14.4 ft-lbs	5671	27.9 ft-lbs	31.6 ft-lbs	37.2 ft-lbs	8115	39.9 ft-lbs	45.2 ft-lbs	53.2 ft-lbs
12	1.75	3197	18.9	21.4	25.2	8240	48.7	55.1	64.9	11792	69.6	78.9	92.8
14	2	4379	30.2	34.2	40.2	11289	77.8	88.1	103.7	16154	111.3	126.1	148.4
16	2	5943	47	53	62	15320	121	137	161	21924	173	196	230
18	2.5	7301	65	73	86	18822	167	189	222	26934	239	270	318
20	2.5	9286	91	104	122	23938	236	267	314	34256	337	382	449
22	2.5	11509	125	141	166	29669	321	364	428	42457	460	521	613
24	3	13372	158	179	211	34471	407	461	543	49329	582	660	777
27	3	17428	232	262	309	44924	597	676	796	64288	854	968	1139
30	3.5	21266	314	356	419	54819	809	917	1079	78448	1158	1312	1544
33	3.5	26310	427	484	570	67821	1101	1248	1468	97055	1576	1786	2101
36	4	30982	549	622	732	79866	1415	1603	1886	114291	2024	2294	2699

* Tightening Torque (in-lbs through M8, M10 & over ft-lbs)

TORQUE-TENSION RELATIONSHIP FOR A307A, GRADE 5, 8 & 9 BOLTS

Nominal Dia. (in.)	Threads per inch	 ASTM A307 Grade A					 SAE J429 Grade 5					 SAE J429 Grade 8					 FNL Grade 9					
		Tightening Torque					Tightening Torque					Tightening Torque					Tightening Torque					
		Clamp Load (lbs.)	K = 0.15		K = 0.17		K = 0.20		Clamp Load (lbs.)	K = 0.15		K = 0.17		K = 0.20		Clamp Load (lbs.)	K = 0.15		K = 0.17		K = 0.20	
			Eco-guard™	K = 0.15	K = 0.17	K = 0.20	Eco-guard™	K = 0.15		K = 0.17	K = 0.20	Eco-guard™	K = 0.15	K = 0.17	K = 0.20		Eco-guard™	K = 0.15	K = 0.17	K = 0.20		
Coarse Thread Series																						
1/4	20	859	32 in-lbs	37 in-lbs	43 in-lbs	2029	61 in-lbs	76 in-lbs	86 in-lbs	10 in-lbs	2864	86 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	3357	101 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs		
5/16	18	1416	66	75	88	3342	125	157	178	209	4715	177	221	251	295	5531	207	259	294	346		
3/8	16	2092	10 ft-lbs	11 ft-lbs	13 ft-lbs	4940	19 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	6974	26 ft-lbs	33	33	37	44	8174	31 ft-lbs	38 ft-lbs	43 ft-lbs		
7/16	14	2870	16	18	21	6777	30	37	42	49	9568	42	52	59	70	12114	44	61	70	82		
1/2	13	3831	24	27	32	9046	45	57	64	75	12771	64	80	90	106	14969	75	94	106	125		
9/16	12	4912	35	39	46	11599	65	82	92	109	16375	92	115	130	154	19193	108	135	153	180		
5/8	11	6102	48	54	64	14408	90	113	128	150	20340	127	159	180	212	23840	149	186	211	248		
3/4	10	9030	85	96	113	21322	160	200	227	267	30101	226	282	320	376	35281	265	331	375	441		
7/8	9	12467	136	155	182	29436	258	322	365	429	41556	364	455	515	605	48707	426	533	604	710		
1	8	16355	204	232	273	38616	386	483	547	644	54517	545	681	772	909	63899	639	799	905	1065		
1-1/4	7	26166	409	463	545	53786	672	840	952	1121	87220	1090	1363	1545	1817	102229	1278	1597	1810	2130		
1-3/8	6	31182	536	607	715	64096	881	1102	1249	1469	103939	1429	1768	2025	2382	121826	1675	2094	2373	2792		
1-1/2	6	37942	711	806	949	77991	1170	1462	1657	1950	126473	1897	2371	2688	3162	148237	2224	2779	3150	3706		
Fine Thread Series																						
1/4	28					2319	70 in-lbs	87 in-lbs	99 in-lbs	116 in-lbs	3274	98 in-lbs	123 in-lbs	139 in-lbs	164 in-lbs	3837	115 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs		
5/16	24					3702	139	174	197	231	5226	196	245	278	327	6125	230	287	325	383		
3/8	24					5599	21 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs	7905	30 ft-lbs	37	37 ft-lbs	42 ft-lbs	9265	35 ft-lbs	43 ft-lbs	49 ft-lbs	58 ft-lbs		
7/16	20					7568	33	41	47	55	10684	47	58	66	78	12523	55	68	78	91		
1/2	20					10197	51	64	72	85	14396	72	90	102	120	16873	84	105	120	141		
9/16	18					12940	73	91	103	121	18268	103	128	146	171	21412	120	151	171	201		
5/8	18					16317	102	127	144	170	23036	144	180	204	240	27000	169	211	239	281		
3/4	16					23776	178	223	253	297	33566	252	315	357	420	39343	295	369	418	492		
7/8	14					32479	284	355	403	474	45853	401	502	568	669	53743	470	588	666	784		
1	14					43343	433	542	614	722	61190	612	765	867	1020	71720	717	896	1016	1195		
1-1/4	12					59548	744	930	1055	1241	96565	1207	1509	1710	2012	113182	1415	1768	2004	2358		
1-3/8	12					72967	1003	1254	1421	1672	118324	1627	2034	2305	2712	136866	1907	2384	2701	3278		
1-1/2	12					87747	1316	1645	1865	2194	142292	2134	2668	3024	3557	166778	2502	3127	3544	4169		

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