

***FORD 351 CLEVELAND ALTERNATOR & A/C & P/S
30445***

30447 Alternator & A/C bracket kit		Pulley kit	
1- 30447-A	main bracket	1-1993-A	crank pulley
1- 30447-B	rear support bracket	4- S248	3/8-16 x 1" SHCS
2- TP3-2.430	spacer	1-1992-A	water pump pulley
1- TP3-1.400	spacer	1- 312-A	water pump pulley nose cover
1- TP7-2.540	spacer	4- S183	5/16-24 x 5/8" SHCS
1- TP3-.990	spacer	1- 206-A	alternator pulley
1- TP3-1.680	spacer	1- S685	11/16 lock washer for alternator
3- S169	5/16-18 x 4 1/2" SHCS	1- 306-A	alternator pulley nose cover
1- S216	5/16-18 x 2" HH	3- S028	8-32 x 1" SHCS
1- S218	5/16-18 x 3 1/2" HH	1- 394-A	air conditioning nose cover
1- S219	5/16-18 x 2 3/4" SHCS	3- S124	1/4-20 x 3/4" Button head
1- S321	3/8-16 x 1 3/4" HH	3- S520	M6-1.0 x 20mm Button head
1- S376	7/16-14 x 6" SHCS	1- 623-A	power steering pulley
2- S551	M8-1.25 x 25mm SHCS	1- 360-A	power steering pulley nose cover
2- S616	5/16-18 nylon lock nut	3- S106	1/4-20 x 1 1/4" SHCS
4- S660	5/16 washer	1- 221-A	alternator fan
1-30005 alternator relocater			
1- 30005-A	alternator relocater bracket		
1- S248	3/8-16 x 1" SHCS		
1- S250	3/8-16 x 1 1/4" SHCS		
1- S622	3/8-16 nylon lock nut		
1- RA-4.375 adjustment rod assembly		Required Belts	
1- R-4.375	rod center section	53.5" 6 rib Dayco 5060535	
1- RE-325	rod end rh thread	45.5" 6 rib Dayco 5060455	
1- RE-326	rod end lh thread		
1- S624	3/8-24 rh nut	SHCS = socket head cap screw	
1- S628	3/8-24 lh nut	HH = hex head	
1- 740 Idler assembly		BH = button head	
1-740	idler body with 1.100 bushing	TP3 = 3/8" I.D. spacer	
1-S666	3/8 x 3/4 washer	TP5 = 5/16" I.D. spacer	
1-302-A	idler nose cover	TP7 = 7/16" I.D. spacer	
3-S022	8-32 x 3/8" SHCS	AC3 = 3/8" I.D. spacer with 1" O.D.	

30446 Power steering bracket kit			
1- 30446-A	power steering bracket	2- S162	5/16-18 x 3" SHCS
1- 20332-B	rear support bracket	1- S248	3/8-16 x 1" SHCS
2- TP3-.990	spacer	1- S312	3/8-16 x 1" HH
1- TP7-.900	spacer	1- S322	3/8-16 x 1 1/2" HH
1- TP3-.150	spacer	1- S379	7/16-14 x 2" HH
1- AC3-.200	spacer (beveled)	2- S666	3/8 x 3/4 washer
1- AC3-.500	spacer	1- S672	7/16 washer

NOTE : For this install we used an Edelbrock water pump part # 8844. Due to possible variations in the boss heights of other brand water pumps some spacer lengths may need to be adjusted. Please contact our tech dept. with help if any variations occur. 888-729-9070

Photo-1A & 1B

Install the alternator/air conditioner bracket (30447-A) to the passenger side of water pump in the 3 holes shown. In the two upper holes use two (TP3-2.430) spacer tubes and in the lower hole will use a (TP3-1.400) spacer tube. Use three 5/16 x 4 1/2" SHCS (S169) to secure the bracket but leave loose to install and line up the alternator mounting bolt.

TP3-2.430 spacer
with 5/16 x 4.5"
SHCS

Photo 1A

TP3-2.430 spacer
with 5/16 x 4.5"
SHCS

TP3-1.400 spacer
with 5/16 x 4.5"
SHCS

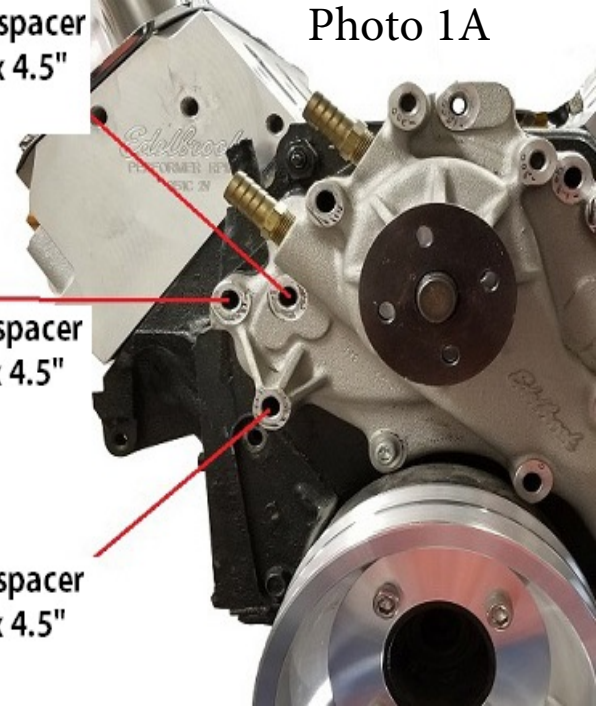


Photo 1B



Photo 2

To mount the alternator use a (TP7-2.540) spacer between the cylinder head and the backside of the alternator mounting ear. Secure with a 7/16 x 6" SHCS (S376) but leave slightly loose until after the belt has been installed. Now tighten the 3 alternator bracket mounting bolts from photo 1B.

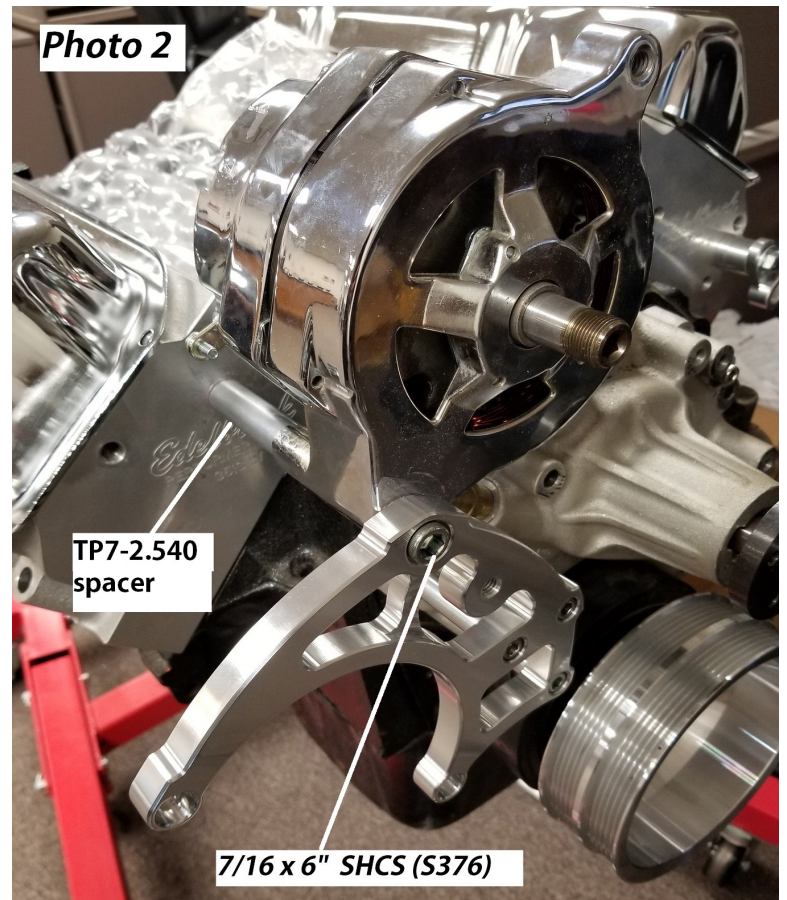


Photo 3

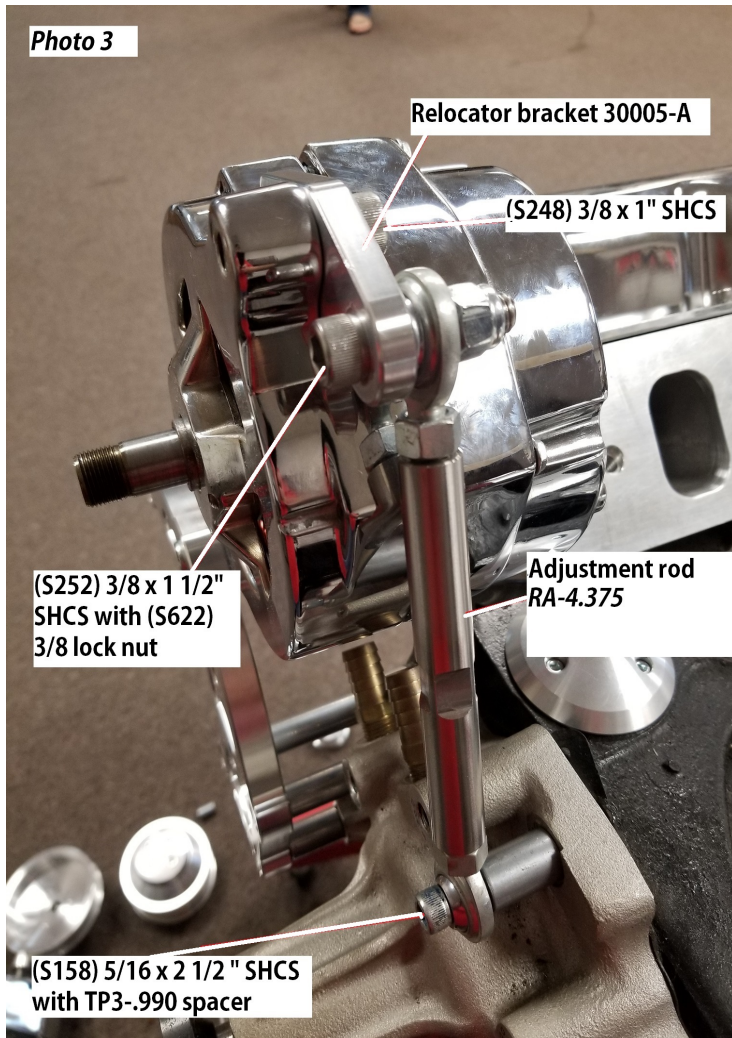


Photo 3

Install the (30005-A) alternator re-locator bracket to the upper ear of the alternator on the back side. Use a 3/8 x 1" SHCS (S248) to secure. Now install the (RA-4.375) adjustment rod to the re-locator using a 3/8 x 1-1/4" SHCS (S250) with a 3/8 lock nut (S622). Install the other end of the adjustment rod to the upper center water pump bolt hole. Use a 5/16 x 2-3/4" SHCS (S219) with a (TP3-.990) spacer in between the rod end and water pump.

Photo 4

Install a Sanden a/c unit (7176 model) to the two lower mounting points of bracket using two M8 x 25mm SHCS (S551). Now install the a/c clutch cover (394-A) using 3 of either M6 x 20mm button heads (S520) or 3 of 1/4 x 3/4" button heads (S124) depending on threads in clutch. These are tightened to a 1/4 turn past finger tight. Now mount the idler pulley (740-A) to the tapped hole of the main bracket with a 3/8 washer (S666) and a 3/8 x 1-3/4" hex head bolt (S321). Now install the idler nose cover (302-A) using 3 of 8/32 x 3/8 SHCS (S022).

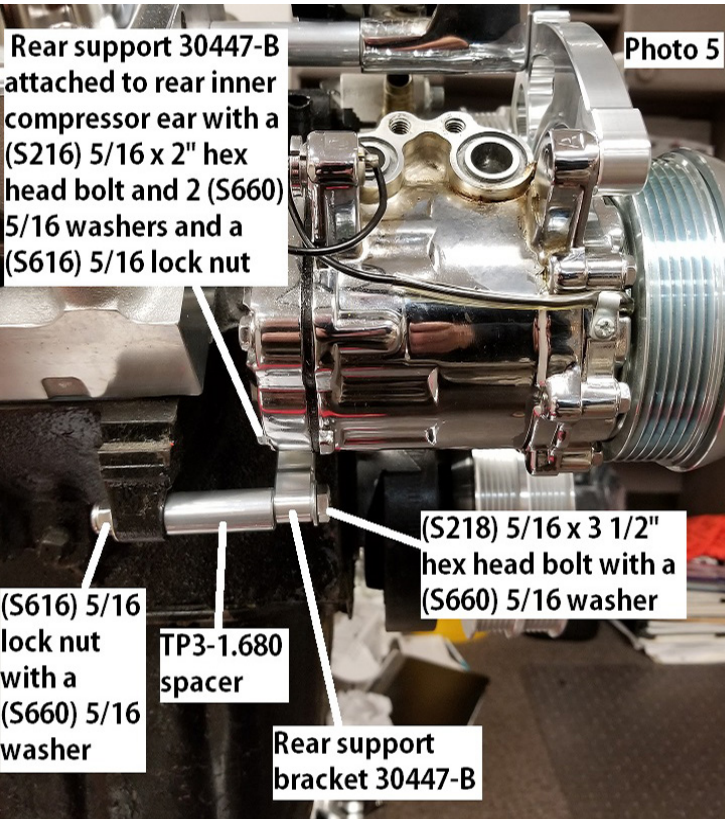
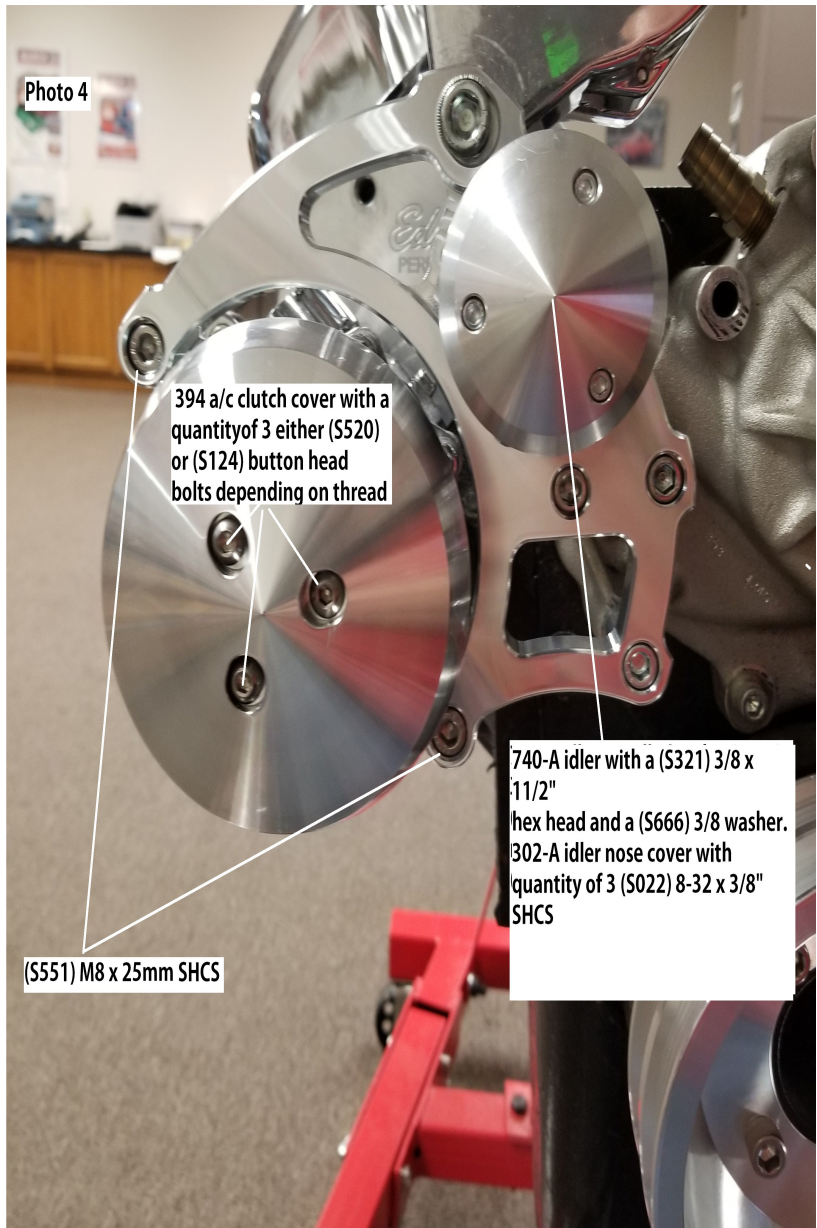


Photo 5

Install the rear support bracket 30447-B to the inner rear compressor ear with a (S216) 5/16 x 2" hex bolt and (S660) 5/16 washer and then securing with a (S616) 5/16 lock nut and (S660) washer. Then attach to the outer engine block hole with a (S218) 5/16 x 3 1/2" hex bolt and (S660) washer thru the front of bracket then thru the TP3-1.680 spacer then the engine block and retained with a (S616) lock nut and (S660) washer.

Photo 6

Install alternator fan 221 then alternator pulley 206-A with lock washer (S685) then existing nut from alternator and torque to 70 ft lbs. Install nose cover 306-A with (S028) 8-32 x 1" SHCS. Install water pump pulley 1992-A with nose cover 312-A and 4 of (S183) 5/16-18 x 5/8" SHCS. If using a mechanical cooling fan do not use nose cover. Note supplied (S183) bolts may not be long enough for existing fan. Now install crank pulley 1993-A with 4 of (S248) 3/8 x 1" SHCS. Note some aftermarket balancers are shorter in length and may require a crank pulley spacer to correct alignment. Please contact our tech department if this occurs.

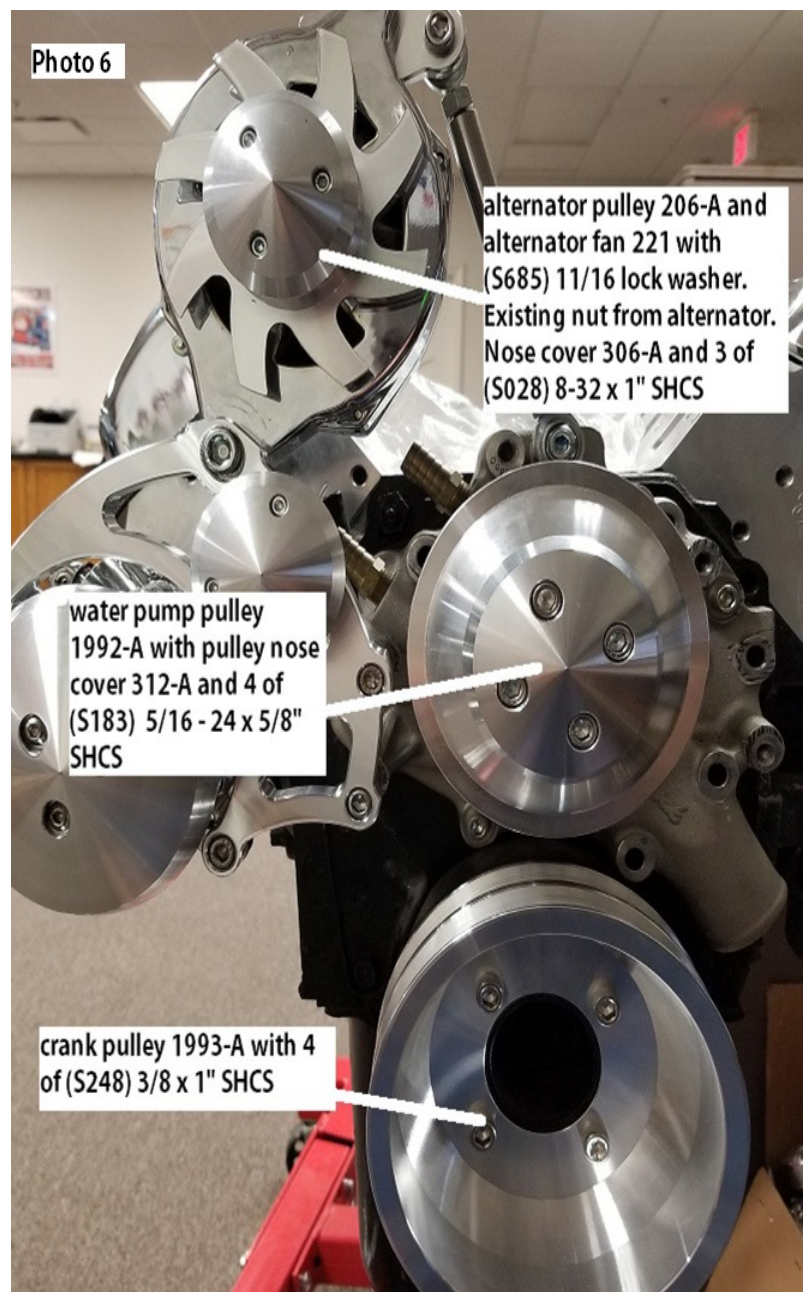


Photo 7

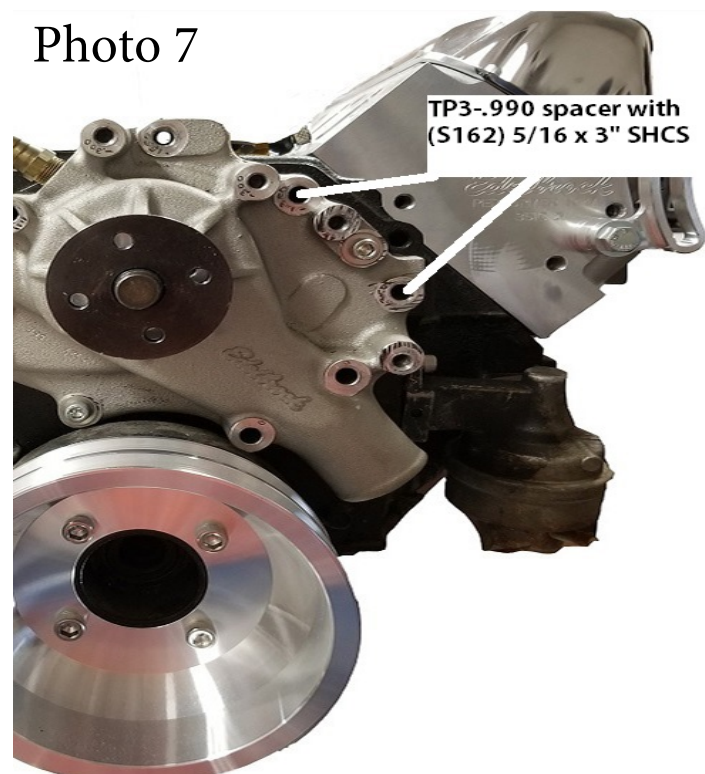


Photo 7 & 7A

Install power steering bracket 30446-A to the driver side of the water pump with 2 TP3-.990 spacers and 2 (S162) 5/16 x 3" SHCS

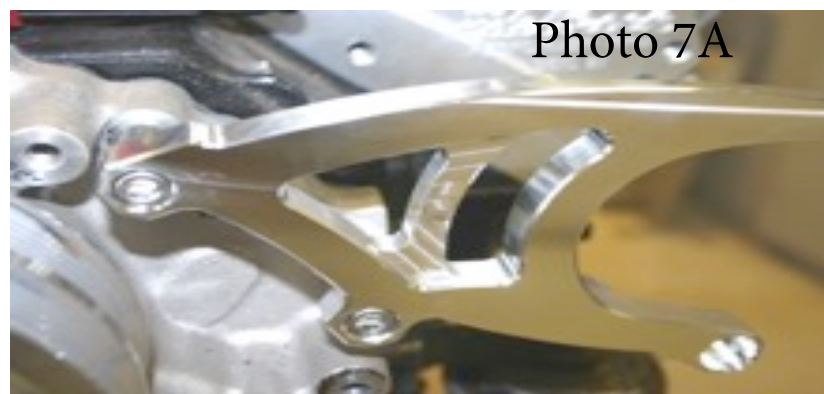


Photo 8

Install power steering rear support bracket 20332-B to outer driver side cylinder head bolt as seen in photo 8 with a (S379) 7/16 x 2" hex head bolt and (S672) 7/16 washer. In between bracket and head use a TP7-.900 spacer. Snug but leave loose enough for bracket to rotate.

Photo 8



Photo 9

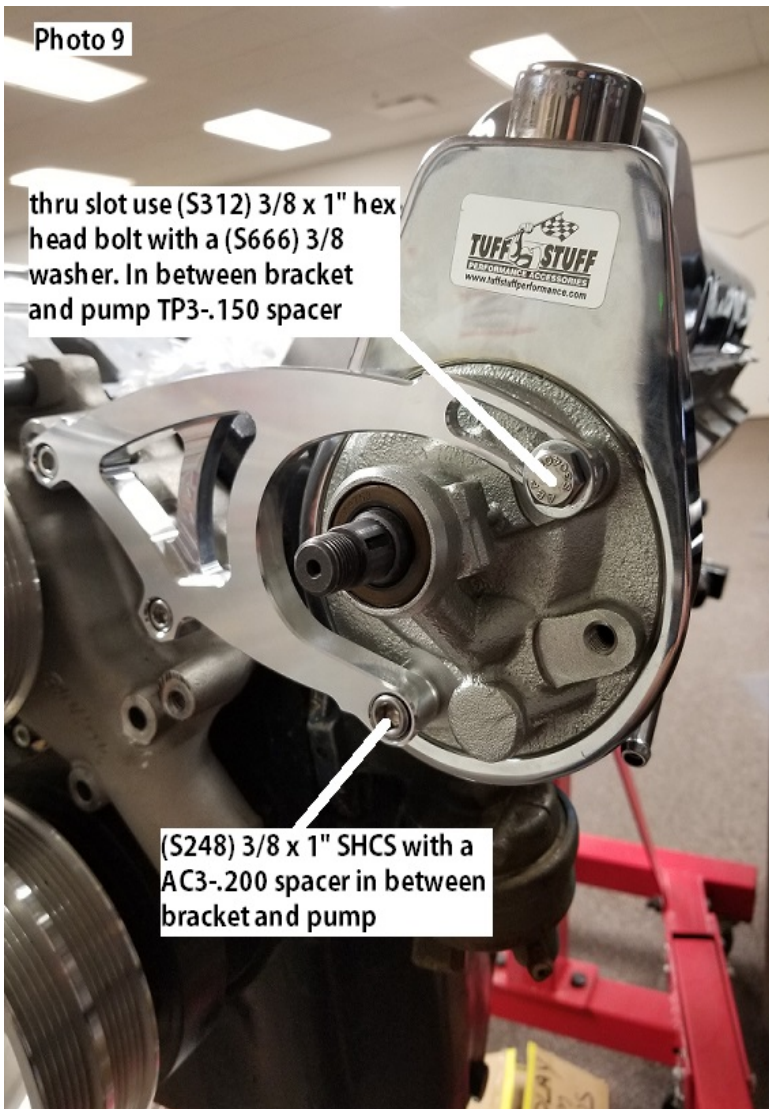


Photo 9

Install power steering pump. Must use a Saginaw keyed power steering pump (mock up is based off of a 1971 Chevy Impala). First in the lower mounting hole, use a (S248) 3/8 x 1" SHCS. In between pump and bracket use a AC3-.200 spacer. Tighten but leave loose enough so pump will still pivot. Next through the slotted portion of bracket, Install a (S312) 3/8 x 1" hex head bolt with a (S666) 3/8 washer. In between bracket and pump use a TP3-.150 spacer. Leave loose for now.

Photo 10

To install rear support bracket 20332-B to power steering pump, first remove existing upper hex bolt from back of pump. Install a (S322) 3/8 x 1 1/2" hex head and a (S666) 3/8 washer through the rear of bracket, then through AC3-.500 spacer in to pump. Leave slightly loose.



Photo 11 & 11A

Install power steering pulley 623-A to pump and secure with a lock nut. Be sure to check that the key is level in the shaft. Now install the power steering nose cover 360-A with 3 (S106) 1/4 x 1 1/4" SHCS

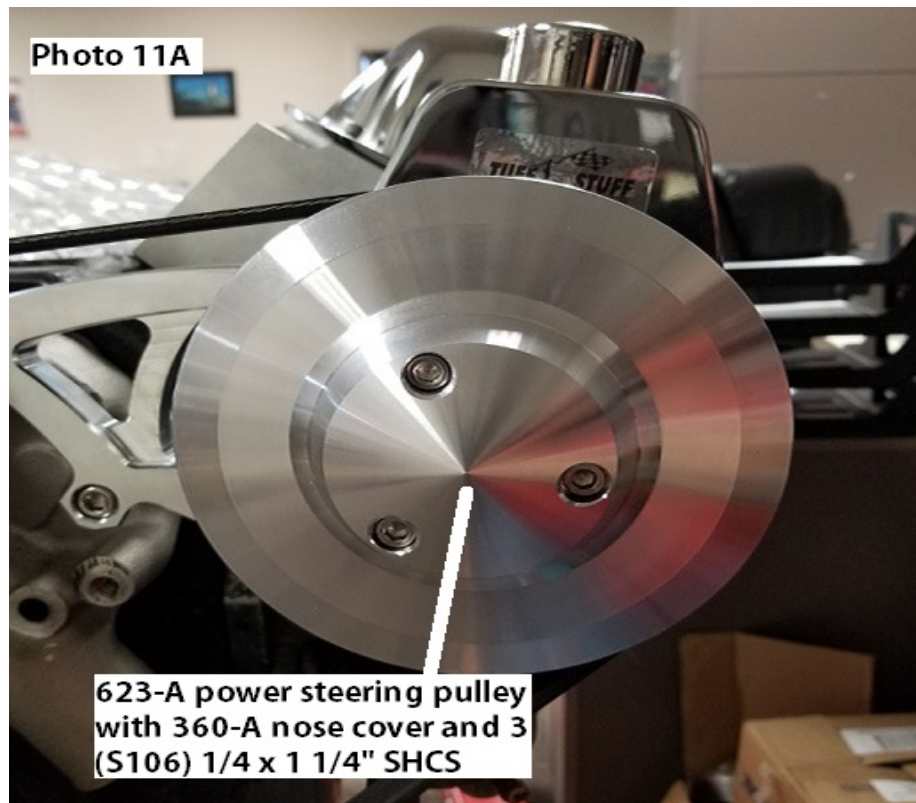


Photo 12

Install power steering belt first. Use a 45.5" 6 rib belt (Dayco 5060455). We do recommend Dayco brand belts. Once belt is on, pull the pump over until proper tension is on belt and then tighten the (S321) 3/8 x 1" hex bolt in slotted portion of bracket (as seen in photo 9). Now tighten the bolts (S322) 3/8 x 1 1/2" hex bolt & (S379) 7/16 x 2" hex bolt on the rear support bracket as seen in photo's 8 & 10. Install a 53.5" 6 rib (Dayco 5060535) belt for the alternator & air conditioning and route as seen in photo 12. Use the adjustment rod to achieve proper tension. Now you can tighten the alternator mounting bolt (S376) 7/16 x 6" SHCS. New belts will typically need to be tensioned again after the first few minutes of running. Any questions regarding install please contact our tech department at 1-800-729-9070

