

## FIX-N-FAX #25

### CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

No. 25

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### Alternator Mounting and Adjusting Brackets

This information should be useful in maintenance of all alternator applications.

To properly install a Delcotron Generator onto the mounting and adjusting brackets, bolts and washers as listed in the table below must be used. Use self-locking nuts. **DO NOT USE LOCKWASHERS.** An alternate method of mounting for the 25-SI and 40-SI Series is covered on a succeeding page.

Delcotron Gen. Series & Type	Mntg. Bracket SAE Bolt Grade & Thread	Mntg. Bracket Washer Part # lb./ft.	Mntg. Bracket Bolt Torque Thread	Adj. Strap SAE Bolt Grade & lbs./ft.	Adj. Strap Washer Part #	Adj. Strap Bolt Torque
10-DN, 150	#5 1/2-13	1967343	65-70	#5 1/2-13	1967343	50-55
20-DN, 150/250	#5 7/16-14	1967342	40-50	#5 3/8-16	1967341	25-30
30-DN, 150/250	#7 7/16-14	1967342	50-60	#5 3/8-16	1967341	25-30
40-DN, All	#7 7/16-14	1967342	50-60	#5 3/8-16	1967341	25-30
25-SI, All & 40-SI, All	#5 1/2-13	1967343	50-60	#5 1/2-13	1967343	60-70

Bolt grades can be identified by markings on the top of the bolt head illustrated in Figure 1 below. The SAE bolt grade is the number of markings plus two (2).



SAE #5



SAE #7



SAE #8

NOTE: SAE #8 CAN BE USED IN PLACE OF SAE # 5 AND #7

Figure 1

Due to normal manufacturing tolerances in the generator and in the mounting bracket, excessive spacing may be encountered between the mounting bracket and the generator lugs. To avoid damage during the installation, the following procedure should be observed.

1. Loosely assemble the bolts through the generator lugs and the mounting bracket with the bolt heads preferably on the outside. Use the washer specified in the table under each bolt head and nut. (See Figure 2.) DO NOT TIGHTEN. Refer to Field Service Bulletin DR-7288 for aligning two-piece mounting brackets.
2. Where alignment is required, align the belt (or belts) and then tighten the bolts holding the mounting bracket onto the engine block.
3. Adjust the belt (or belts) to the proper tension, and tighten the adjusting bracket bolt to the torque specified in the table. Also, as specified in the table, use a washer under the bolt head, and a washer between the adjusting strap and generator casting. (Figure 3)

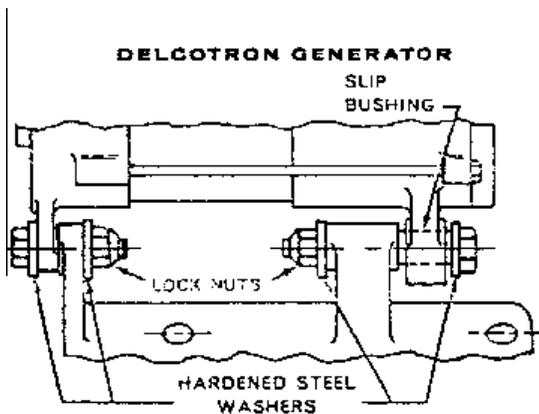


Figure 2

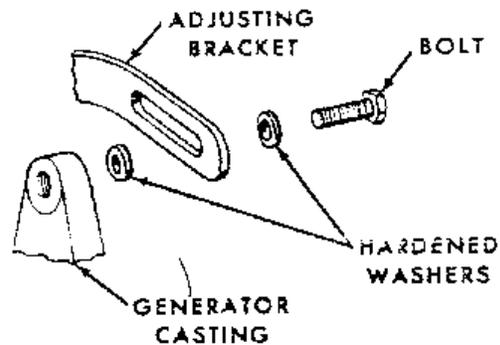


Figure 3

4. Tighten the bolt in the generator drive end frame mounting lug to the specified torque.
5. Lightly tighten the bolt in the slip ring end frame mounting lug, then tap the bolt head with a hammer until the steel bushing in the generator lug contacts the mounting bracket. If the bolt loosens before the bushing reaches the bracket, retighten the bolt until snug. A solid sound will be evident when the bushing reaches the bracket.
6. Then tighten the slip ring end frame mounting bolt to the specified torque.

A satisfactory installation can be achieved only by:

1. Observing the procedure just outlined.
2. Using the bolts and washers specified in the table.
3. Tightening the bolts to specified torques.

**ALTERNATE MOUNTING INFORMATION  
FOR 25-SI AND 40-SI SERIES ONLY**

Flanged bolts, flanged nuts, and hardened steel washers, where applicable, may be used as tabulated below in place of the bolts and nuts covered on Pages 1 and 2, provided the generator has a steel insert in the drive end frame (Figure 4).

If the generator does not have a steel insert, follow Pages 1 and 2.

Delcotron Gen. Series & Type	Mntg. Bracket Flange Bolt # & Length	Mntg. Bracket Washer Part #	Mntg. Bracket Bolt Torque lbs./ft.	Adj. Strap Flange Bolt # & Length	Adj Strap Washer Part #	Adj. Strap Bolt Torque lbs./ft.
25-SI, All & 40-SI, All	9425585-1 ½"	None	60-70	9425585 -1 ½"	1967343 (1)	60-70
	9432187-2 ½"	None	60-70	9432187 -2 ½"	1967343 (1)	60-70
	9432188-3 ½"	None	60-70	9432188 -3 ½"	1967343 (1)	60-70
	9432189-4 ½"	None	60-70	9432189 -4 ½"	1967343 (1)	60-70
	9432190-6 ¼"	None	60-70	9432190 -6 ¼"	1967343 (1)	60-70

USE PART NO. 9432195 FLANGED NUT WITH EACH FLANGED BOLT

- Choose length to fit.
- (1) For 25-SI, use one washer per Figure 5.  
For 40-SI, use two washers per Figure 6.

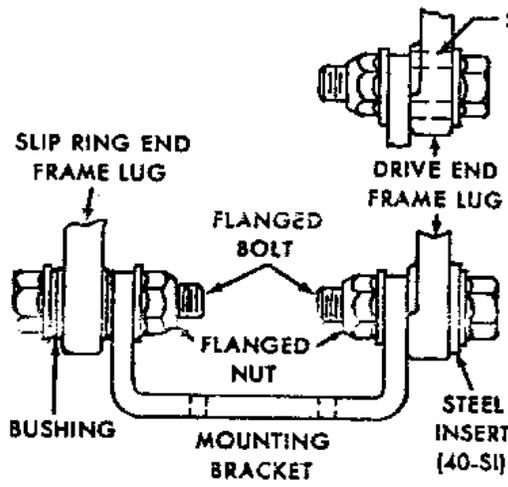


FIGURE 4  
(25-SI and 40-SI)

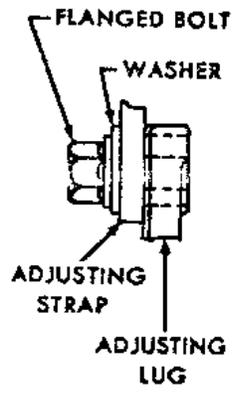
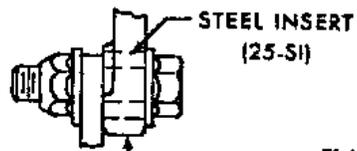


FIGURE 5  
(25-SI)

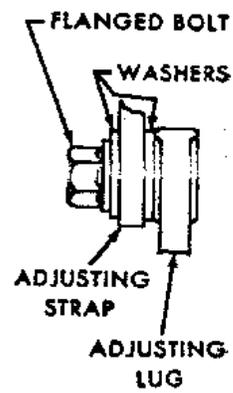


FIGURE 6  
(40-SI)

(see FIX-N-FAX INDEX)