

SECTION 9

COOLING FAN AND PULLEY REPLACEMENT MODIFICATION OF THE C611505-0101 ALTERNATOR

DESCRIPTION

To increase the service life of the C611505-0101 alternator which has been superseded by the C611505-0102 alternator, it is recommended the following modification to the alternator be accomplished on all A188, T182, R182, TR182, U206, TU206, 207, T207, 210, T210 and P210 airplanes. Once the following modification has been accomplished, the alternator will then be upgraded to the C611505-0102 alternator configuration and the alternator must be reidentified by adding the suffix letter "A" to the part number (Example: C611505-0101A).

MODIFICATION PROCEDURES:

1. Order the following parts from the Cessna Supply Division:

QUANTITY	PART NUMBER	NOMENCLATURE
1	C5AF-10343-B	Fan Spacer
1	E3FF-10343-AA	Pulley Spacer
1	E3FF-10344-AA	Pulley & Fan Assembly

2. (Refer to Figure 9A-1) Place a 15/16 inch box end wrench (1) in a bench vise (2) and on the alternator shafts hex nut (3).
3. Using a 5/16 inch hex screwdriver socket with a 3/8 inch square drive (3), a 3/8 inch to 1/2 inch square drive adapter (4) and a 1/2 inch socket wrench (5), separate fan and pulley from the front housing (6) and shaft by removing hex nut (7). Retain lockwasher and hex nut (7).
4. Discard existing fan spacer, fan and pulley. Retain lockwasher and hex nut.
5. (Refer to Figure 9A-2) Install the C5AF-10343-B spacer, E3FF-10344-AA fan and pulley assembly and E3FF-10343-AA pulley spacer using lockwasher and hex nut retained in Step 3.
6. (Refer to Figure 9A-1) Reinstall the 15/16 inch box end wrench (1) in a bench vise (2) and on the alternator shafts hex nut (7).
7. Using the 5/16 inch hex screwdriver socket with a 3/8 inch square drive (3), a 3/8 inch to 1/2 inch square drive adapter (4) and a 1/4 inch socket torque wrench, rotate shaft in a counterclockwise direction to a torque of 60 to 100 lb-ft torque. Be sure that the hex driver is fully seated into the hex hole in the shaft.
8. (Refer to Figure 9A-2) Locate the existing name plate, item (1) and add the suffix letter "A" to the existing part number so it reads "C611505-0101A".
9. Modification is completed and alternator is now ready for reinstallation on airplane.

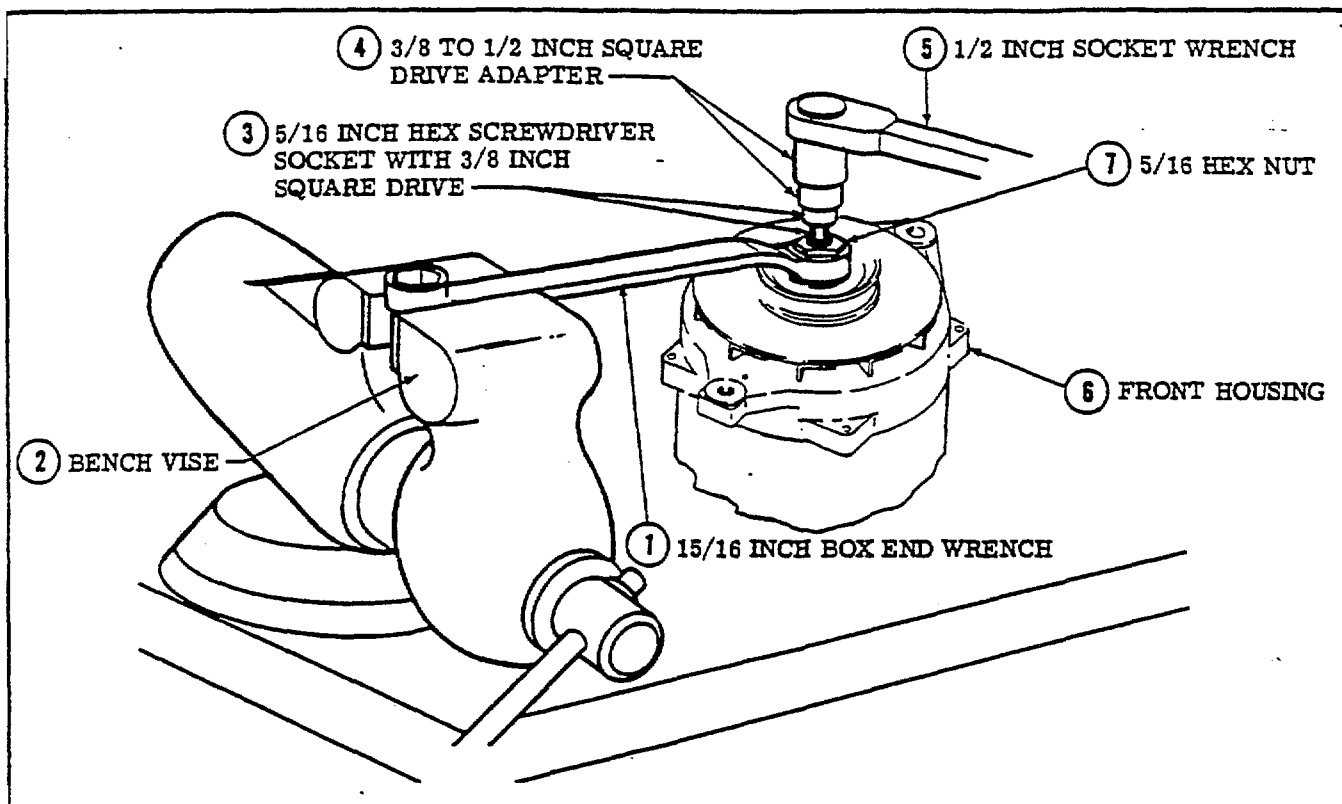


Figure 9A-1. Alternator Fan and Pulley Replacement

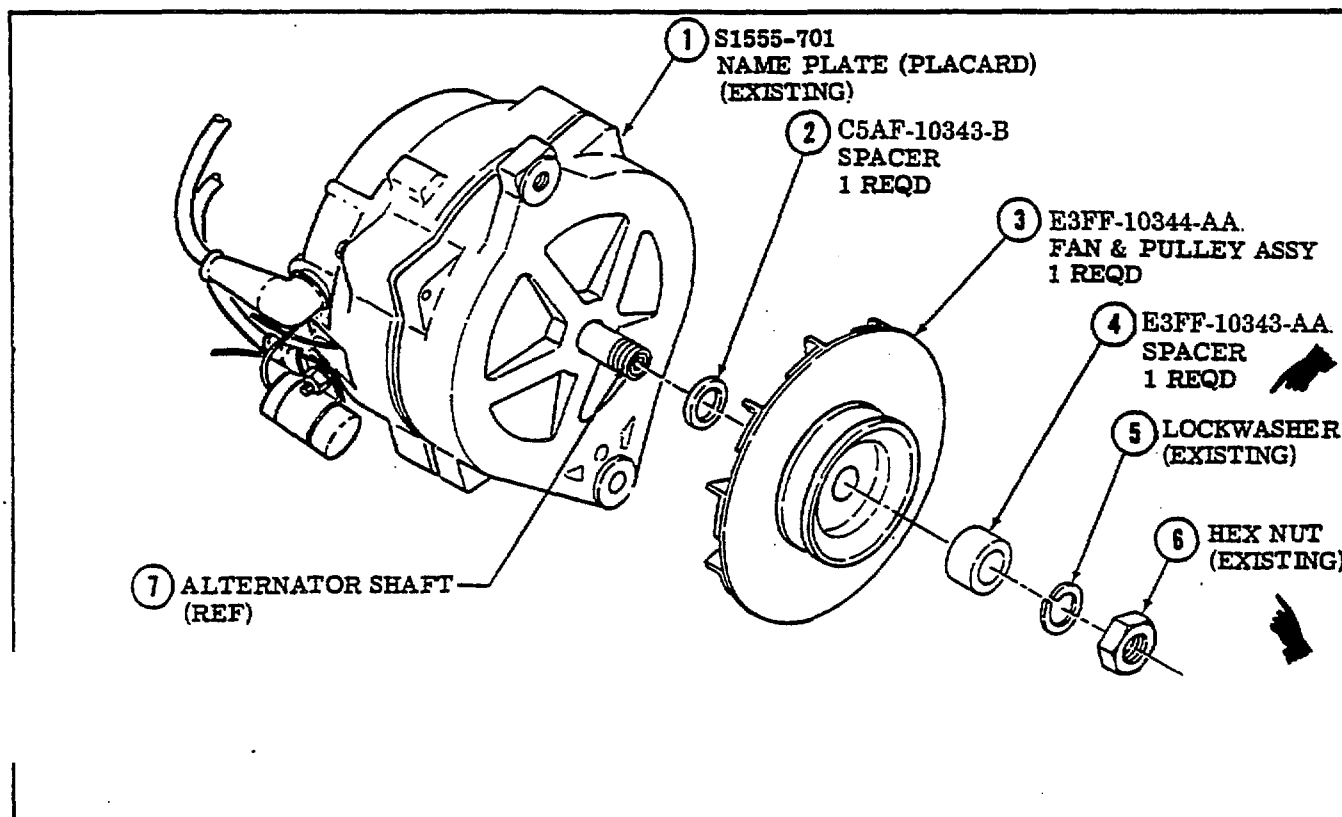


Figure 9A-2. Alternator Fan and Pulley Assembly Installation