

REPLACING DIODE IN 50DN GENERATOR

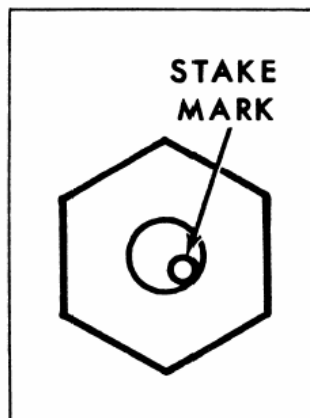
WARNING!!! ALWAYS USE PROPER EYE PROTECTION WHEN PERFORMING ANY MECHANICAL REPAIRS TO A VEHICLE – INCLUDING, BUT NOT LIMITED TO, ANY INSTALLATION AND OR REPAIRS TO THE DELCO REMY GENERATOR. FAILURE TO USE PROPER EYE PROTECTION CAN LEAD TO SERIOUS AND PERMANENT EYE DAMAGE.

Only perform the mechanical functions that you are properly qualified to perform. Mechanical repairs that are beyond your technical capabilities should be handled by a professional installation specialist.

DANGER!!! To avoid injury or damage, always disconnect the negative cable at the battery before removing or replacing the generator. The generator output terminal is always live ("hot"). If the battery is not disconnected, a tool accidentally touching this terminal and ground can quickly get hot enough to cause skin burn or damage to the tool and surrounding parts.

OIL-COOLED GENERATOR END FRAME DIODE REPLACEMENT:

The subject diode, after being assembled into the alternator end frame, has been staked to achieve a tight fit between the diode threads and the end frame threads. This tight fit is needed to efficiently conduct the high current that flows through the threaded connection during periods of high alternator output. A stake mark in a diode is shown.



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In order to remove a diode from the **end frame**, drill a 3/16" hole 1/8" deep into the stake mark to relieve the pressure between the threads. This operation will avoid damage to the end frame threads that otherwise would occur during removal.

To properly install a new diode, first run a 3/8-24 UNF 2A tap through the **end frame** hole to clean the threads. Then, install the new diode and torque to 10-12 pound-feet. Stake as in the old diode about 1/8" deep with a suitable tool and an arbor press. **DO NOT STRIKE** the diode with a hammer as the shock may damage the diode internally!

OIL-COOLED GENERATOR HEAT SINK (DIODE BRACKET) DIODE REPLACEMENT: Remove the nut to replace a diode in a heat sink. During assembly, torque the nut to 10-12 pound-feet.

AIR-COOLED GENERATOR HEAT SINK (DIODE BRACKET) DIODE REPLACEMENT: Assemble the diode into the threaded adapter, if needed, to fit the threaded hole in the heat sink (diode bracket). Discard the adapter if not needed.

In either case, torque the diode to 10-12 pound-feet.