
INSTALLATION INSTRUCTIONS

Original Issue Date: **10/86**
 Model: **20-100ROZ**
 Market: **Industrial**
 Subject: **Tachometer Kit 254266**

The B- and C-series engines have been converted from Delco to Motorola alternators. This change requires recalibration of the tachometer. Future tachometers will be calibrated for the Motorola alternator. The following procedure recalibrates either tachometer for the alternator installed on the generator set.

Accidental starting can cause severe injury or death. Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator set. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.



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Disconnect battery cables before working on generator set (negative lead first and reconnect it last).

Tachometer Identification

Calibration information is found on the tachometer's nameplate. This information identifies which alternator (Delco or Motorola) the tachometer is calibrated for.

Tachometers for Delco Alternators:

On the nameplate under switch position 6, the following number will be found: at Alternator 14P, at Ratio 2.81.

Tachometers for Motorola Alternators:

On the nameplate under switch position 6, the following numbers will be found: at Alternator 12P, at Ratio 2.9.

NOTE

The **Cal** adjustment is a very small screwdriver adjustment, internal to the tachometer. Carefully adjust the set point using a jeweler's screwdriver through the back plate and the small hole in the internal wall.

Adjustment Procedures

Motorola Alternator/Delco Tachometer (14P, 2.81)

Install tachometer per wiring diagram. Start the generator set and adjust the engine speed until the tachometer reads 2300 RPM. At this point the engine is actually running at 2600 RPM. Adjust the **Cal** adjustment using a jeweler's screwdriver until the tachometer reads 2600 RPM. Cross off the markings on the tachometer nameplate and indicate that it has been recalibrated for a Motorola alternator.

Delco Alternator/Motorola Tachometer (12P, 2.9)

Install tachometer per wiring diagram. Start the generator set and adjust the engine speed until the tachometer reads 2600 RPM. At this point the engine is actually running at 2300 RPM. Adjust the **Cal** adjustment using a jeweler's screwdriver until the tachometer reads 2300 RPM. Cross off the markings on the tachometer nameplate and indicate that it has been recalibrated for a Delco alternator.