

Battery-Charging Alternator Replacement Kit 276280 Standby Generator Sets

Installation of a new Delco-Remy (12SI) battery charging alternator will require modification of the existing wiring harness/leads when installed on generator sets originally equipped with either the Delco-Remy (10SI) or Motorola/Prestolite (10-748) alternators. Determine which alternator was originally

used by referring to Figure 1. The Motorola/Prestolite alternator was wired two different ways. One version used an 180-Ohm resistor and lead 12 to terminal R on the alternator. The other version used a diode assembly without a lead 12. Use the proper installation instructions following.

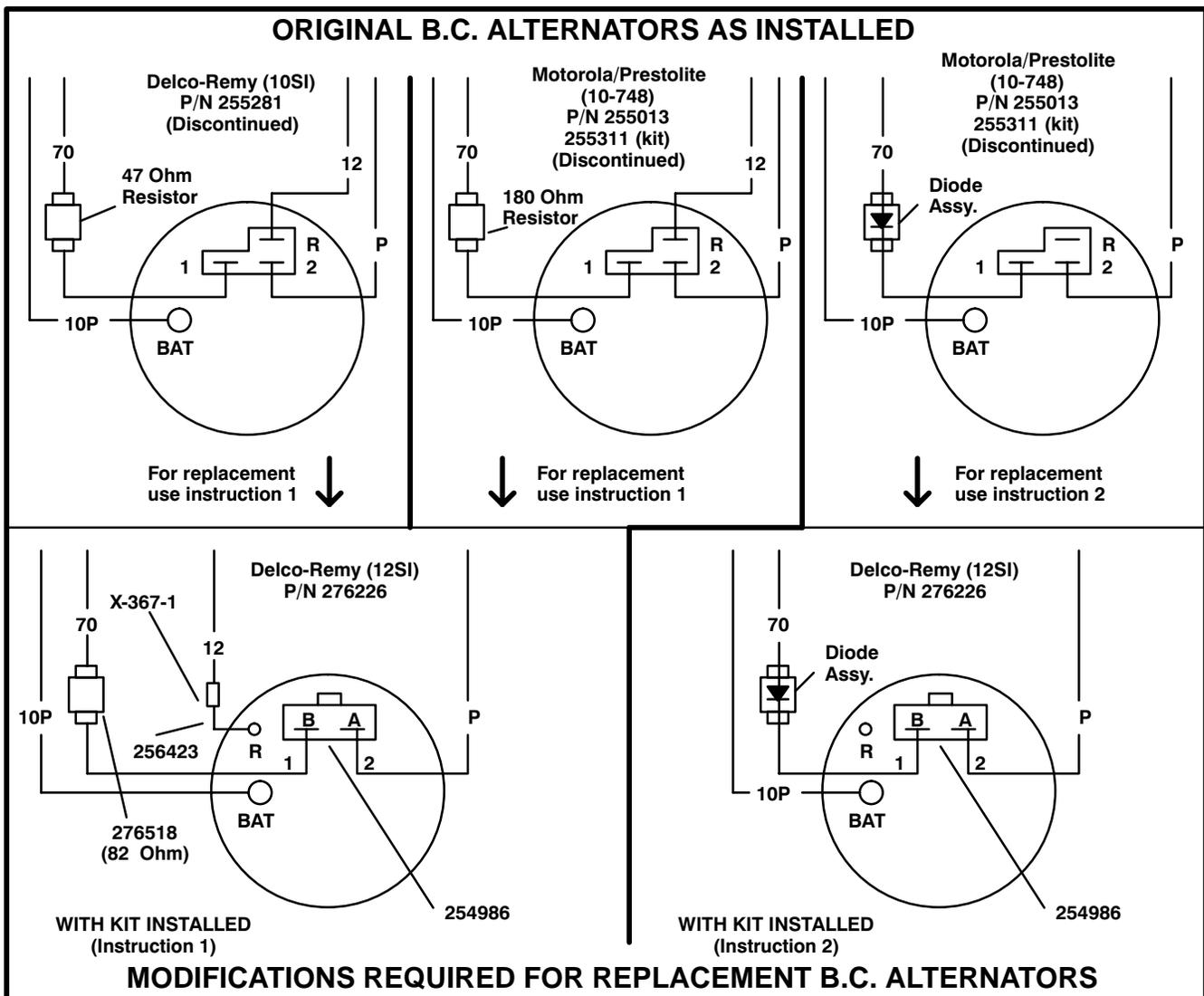
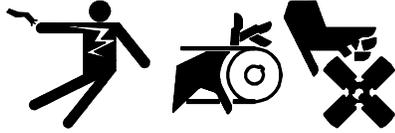


Figure 1. Battery Charging Alternators

NOTE

When replacing the battery charging alternator on generator sets with a relay controller, be sure the CC relay has a 6 vdc coil. If not, order part number 282972 from the factory. For location and connection of the CC relay, refer to the wiring diagram in the generator set operations manual. A relay coil voltage other than 6 vdc will not allow the proper crank disconnect function from the engine alternator to occur.

WARNING



Accidental starting.

Can cause severe injury or death.

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

Accidental starting can cause death or serious personal injury. Turn Generator 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. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

Installation Instruction 1

1. Place controller master switch to OFF position and disconnect battery, negative lead first.
2. Remove electrical connections from old alternator.
3. Loosen adjustment screw on alternator to release tension on belt.
4. Remove old alternator. Install new pulley 255527 on battery charging alternator 276226. Install new alternator using proper hardware. Do not tighten hardware at this time.
5. Install belt. Refer to Operation Manual for procedure on proper belt tension.
6. Remove leads P, 70, and 12 from connector using removal tool or miniature screwdriver. Electrical
7. Remove original resistor assembly from lead 70 and discard resistor assembly. Install new resistor assembly 276518 to terminals of leads 70.
8. Insert leads 70 and P in new connector 254986. Lead P goes in connector position A and lead 70 goes in connector position B. See Figure 1.
9. Cut terminal from end of lead 12, strip end, and crimp on X-367-1 insulink. Strip end of 256423 lead assembly and connect to insulink.
10. Connect leads to new alternator. See Figure 1. Remove and discard cap on alternator terminal R (if equipped).
11. Reconnect battery, negative lead last. Return controller master switch to proper position.

Terminal Insertion End

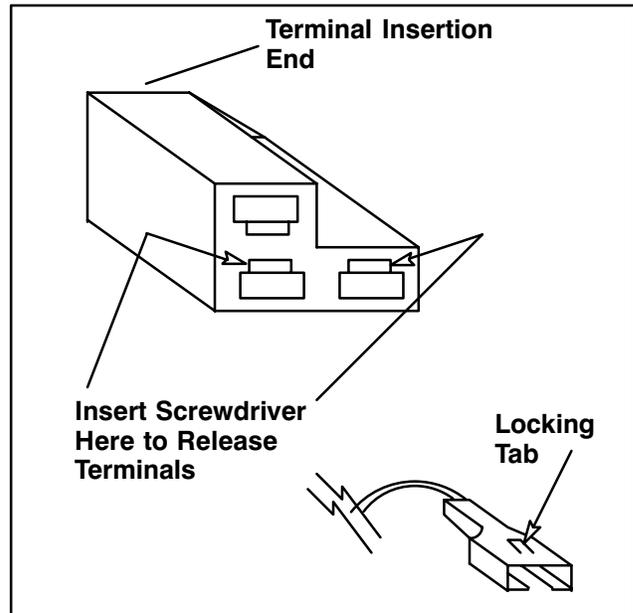


Figure 2. Removing Terminals

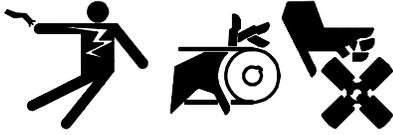
terminals are locked in connector by a small tab on top of terminal. Insert screwdriver into connector on end opposite of leads and *carefully* pry locking tab down. Remove leads from old connector. See Figure 2.

Using screwdriver, *carefully* pry up locking tab on each terminal for installation in new connector. If terminals are damaged, use supplied X-431-18 terminals for replacement.

NOTE

After generator set has been operated or test run, belt tension should be rechecked.

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Installation Instruction 2

The following components of the kit are NOT required for this application: X-367-1 terminal, 276518 resistor assembly, and 256423 lead assembly.

1. Place controller master switch to OFF position and disconnect battery, negative lead first.
2. Remove electrical connections from old alternator.
3. Loosen adjustment screw on alternator to release tension on belt.
4. Remove old alternator. Install new pulley 255527 on battery charging alternator 276226. Install new alternator using proper hardware. Do not tighten hardware at this time.
5. Install belt. Refer to Operation Manual for procedure on proper belt tension.

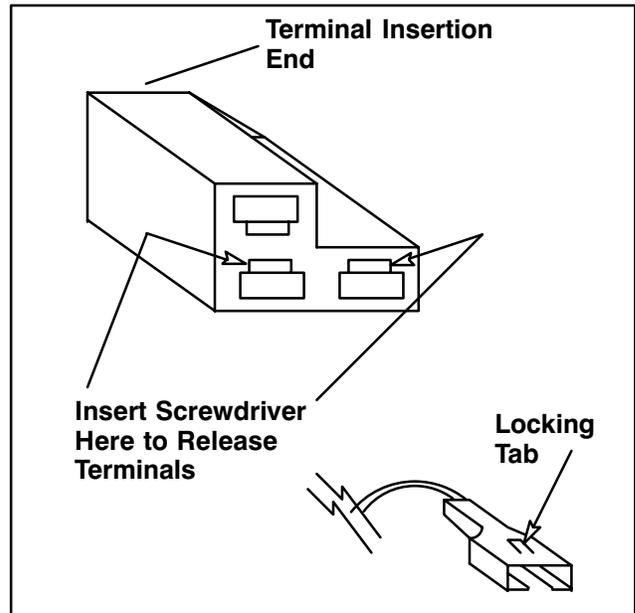


Figure 2. Removing Terminals

6. Remove leads P and 70 from connector using removal tool or miniature screwdriver. Electrical terminals are locked in connector by a small tab on top of terminal. Insert screwdriver into connector on end opposite of leads and *carefully* pry locking tab down. Remove leads from old connector. See Figure 2.

Using screwdriver, *carefully* pry up locking tab on each terminal for installation in new connector. If terminals are damaged, use supplied X-431-18 terminals for replacement.

7. Insert leads in new 254986 connector. Lead P goes in connector position A and lead 70 goes in connector position B. See Figure 1.
8. Connect leads to new alternator.
9. Reconnect battery, negative lead last. Return controller master switch to proper position.

NOTE

After generator set has been operated or test run, belt tension should be rechecked.

Parts Listing

	276280 KIT	
Description	Qty.	Part Number
Plug, two-lead connector	1	254986
Alternator	1	276226
Terminal, 18-22 ga. insulink	1	X-367-1
Terminal, 1/4 Male Push-on	2	X-431-18
Pulley, alternator	1	255527
Resistor assembly	1	276518
Lead assembly (terminal R)	1	256423