



CAUTION

This symbol is used to indicate the presence of hazards that can cause minor personal injury or property damage.

Remove existing alternators

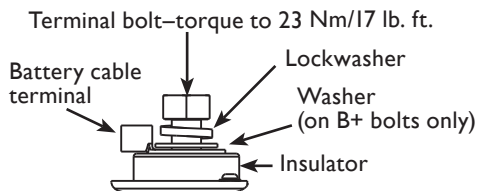
1. Turn off battery switch or disconnect battery ground cable.
2. Remove alternator drive belt.
3. Remove all oil lines between alternator and engine. Plug oil line outlets with properly-sized pipe or tubing plugs. Remove oil drain hose at existing alternator and plug opening.
4. Label wires for identification, then disconnect electrical connections from existing alternator.
5. Remove 28 V alternator mounting bolts, cables, and existing 28 V alternator/regulator.
6. Remove 14 V alternator mounting bolts, cables, and existing 14 V alternator/regulator. Tape all cables from 14 V alternator except the 14 V B+ connection, which will be connected to the new alternator.

Install new C725 alternator (see Figure 1)

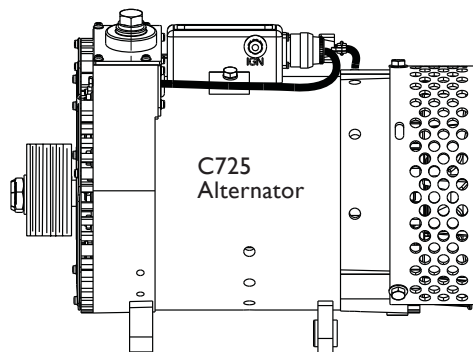
CAUTION

Slip bushing located in rear mounting foot must be securely tightened against alternator mounting bracket on engine. Failure to do so can result in broken mounting feet or broken upper mounting bracket.

1. Install A2-329 regulator on shell of C725 alternator and torque mounting screws to 8.5 Nm/75 lb. in.



Alternator 14 V/ 28 V B+ Terminal Studs and Alternator B- Terminal Stud



Slip bushing must be tightened against bracket — see “CAUTION” above

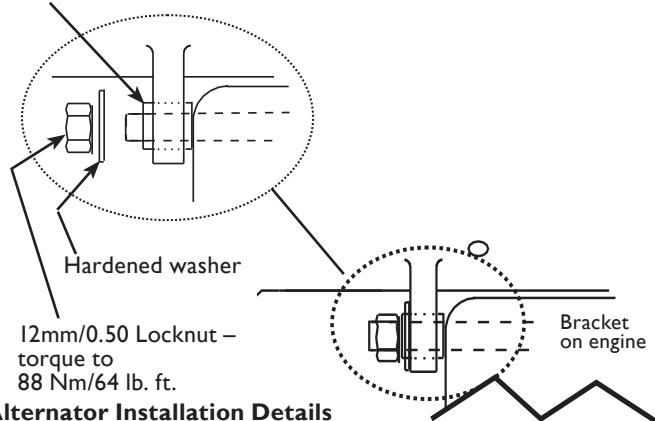


Figure 1 - C725 Alternator Installation Details

2. Units are shipped with shaft collar, hardened washer and nut installed. Remove and discard shaft collar. Install pulley, furnished hardened washer, and nut. Torque nut to 162.7 Nm/120 lb. ft.
3. Use hardened washers between aluminum surfaces and bolt heads and nuts.
4. Follow vehicle manufacturer’s recommendations for belt tension.
5. All cabling, wiring or conduit must be supported within 305 mm/12 in. of termination on alternator.
6. Choose wire gauge capable of handling maximum alternator output with no more than 0.4 V drop (28 V)/ 0.2 V drop (14 V) on each leg from alternator to battery.
7. Make electrical connections to CEN regulator, using proper ring terminals.
 - a. Make sure alternator-to-regulator harnesses are plugged securely in regulator receptacles.
 - b. Connect IGN terminal on regulator to 28 V keyed ignition switch source. Torque #10-32 terminal nut to 3.4 Nm/30 lb. in.
8. Make electrical connections to alternator:
 - a. Connect battery positive cables from vehicle to alternator 28 V B+ and 14 V B+ terminals. Torque both 0.50-18 UNC-2A terminal bolts on alternator to 23 Nm/17 lb. ft.
 - b. Connect ground cable from vehicle to alternator B- terminal. Torque 0.3750-16 UNC-2A B- terminal bolt on alternator to 23 Nm/17 lb. ft.

CAUTION

B+ cables must be supported by cable clamps within 12” of both B+ output terminals to avoid premature failure of B+ output terminals. CEN recommends using cable clamps attached to alternator anti-drive end housing for support.

- b. Connect ground cable from vehicle to alternator B- terminal. Torque 0.3750-16 UNC-2A B- terminal bolt on alternator to 23 Nm/17 lb. ft.

If you have questions about your alternator or any of these instructions, or if you need to locate a Factory Authorized Service Dealer, please contact us at:

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