

NOTICE

EMC filter can be installed either at power supply of the affected component or at the B+ terminal on the alternator.

NOTICE

A9-305 Filter Assembly is designed only to reduce electromagnetic interference (EMI) from CEN alternator/regulator to acceptable levels as defined by Society of Automotive Engineers (SAE) specification J1113/41. This device will NOT reduce EMI from sources such as vehicle digital systems, wireless links, digital devices, antennas, poor cable routing practice, and other electrical/electronic devices that cause EMI. If EMI continues after installing A9-305 per these instructions, consult an electromagnetic compliance (EMC) specialist to determine EMI source.

To connect filter assembly to B+ terminal on alternator, see page 1.

To connect filter assembly to power source of other affected electrical/electronic components, see page 2.

1. Before connecting filter assembly to B+ terminal on alternator, determine where to install unit:

- ⇒ For alternators with front housings that look like Figure 1: Choose location on alternator best suited for vehicle conditions to install filter assembly. B+ connecting wire as provided on unit is 12 inches long.
- ⇒ For other alternators: Select location for filter within 12 inches of B+ terminal on alternator. If location within 12 inches is not practical, B+ connecting wire can be spliced to increase distance up to 2 feet from alternator B+ terminal. Increased wire length reduces filter effectiveness.

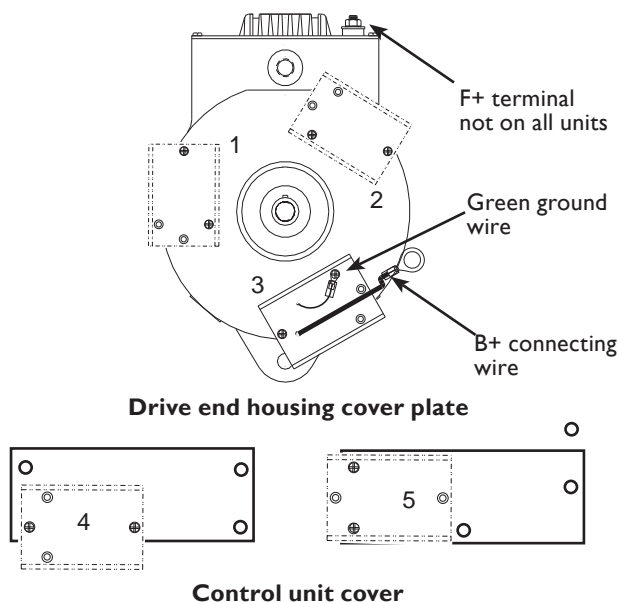


Figure 1 - Filter Assembly Location on Alternator (choose one of five locations)

2. Install filter assembly to be connected to B+ terminal on alternator:

- a. Disconnect vehicle battery master switch or vehicle battery cables.
- b. To install unit directly on alternator:
 - 1) Remove and discard two short screws from selected location on alternator (see Figure 1).
 - 2) Make sure ring terminals on filter assembly are clean and have good contact surface. Place filter assembly on alternator.
 - 3) Use one new screw and lockwasher supplied in kit to secure ring terminal of green ground wire in closest mounting hole in alternator. Insert second screw and lockwasher in remaining mounting hole.
 - 4) Torque both screws to 2.3Nm / 20 lb.in.
- c. To install unit in location other than alternator:
 - 1) Set unit in mounting location. Secure green ground wire from unit to grounded surface, using one mounting hole in unit. Use second mounting hole to finish securing unit to mounting location.
- d. Connect B+ connecting wire from unit to alternator B+ terminal, splicing B+ wire length if required from step 1, as shown in Figure 2.
- e. Reconnect vehicle battery master switch or vehicle battery cables.
- f. Operate engine and check alternator output.

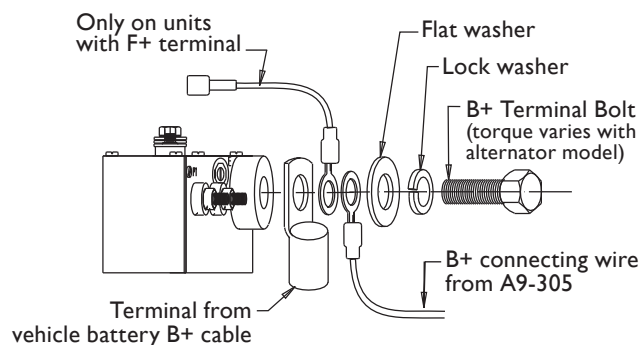


Figure 2 - Alternator B+ Terminal Stacking Order

To connect filter assembly to power source of other affected electrical/electronic components:

1. Disconnect vehicle battery master switch or vehicle battery cables.
2. To install unit:
 - a. Select location to mount filter within 12 inches of power source on the affected component. If location within 12 inches is not practical, B+ connecting wire can be spliced to increase distance up to 2 feet from power source on component. Increased wire length reduces filter effectiveness.
 - b. Secure green ground wire (see Figure 1, page 1) from unit to grounded surface, using one mounting hole in unit. Use second mounting hole to finish securing unit to mounting location.

CAUTION

Unit MUST be connected properly to grounded surface directly back to battery negative terminal.

3. Connect "B+" connecting wire from unit to component power supply, splicing B+ wire length if required from step 2a. See Figure 2 on page 1 for stacking order.
4. Reconnect vehicle battery master switch or vehicle battery cables.
5. Operate engine and check component operation.

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:

C. E. Niehoff & Co. • 2021 Lee Street • Evanston, IL 60202 USA
TEL: 800.643.4633 USA and Canada • TEL: 847.866.6030 outside USA and Canada • FAX: 847.492.1242
E-mail us at service@CENiehoff.com