

SAF-T Ground Wire Installation Instructions

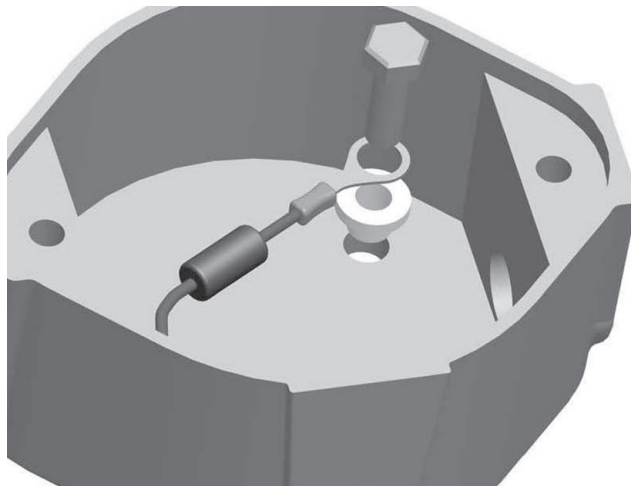
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The Civacon SAF- T Ground Wire is used to produce the special ground verification signal required by many loading rack monitors. For proper operation, it **MUST** be securely fastened to the tank chassis to provide proper ground verification.

CAUTION – *Do not use electric drills, or other tools that use electricity, generate sparks, or produce heat near a petroleum tanker unless the tanker has been purged or otherwise rendered safe, and the work area is verified as being free of hazardous vapors.*

Select a mounting location on the chassis for the socket box. Mount Socket box to chassis and remove all paint, dirt, debris, rust, etc. at least 1-inch around the holes on both sides of the Chassis. Apply a coating of electrical dielectric grease (like Truck-Lite® Brand NYK-77 or equal) to the clean, bare area around the hole prior to installation of the mounting Bolts. This will help protect the installed Bolts from corrosion and ensure a good chassis electrical connection.

Remove the bolts from the socket faceplate and pull the faceplate away, being careful of the connected wiring. Remove the **(mounting bolt that is not connected to Pin #10 with the wire)** one of the mounting bolts holding the Socket to the Chassis place the plastic bushing in the hole of the socket then place the large ring terminal on bolt and reinstall. The Plastic bushing must be installed. Attach the small ring terminal on the Green Wire to Pin #9 of the socket. **NOTE:** Pin #9 is the left center contact pin as you look at the rear of the contact assembly, with the socket's label (on front) facing up. If there are two or more sockets, run a jumper between Pin #9 on each socket. Re-install the socket faceplate; make sure the gasket is not damaged and no wires are pinched. Tighten the faceplate bolts securely. **You have completed the installation of the SAF- T Ground Wire.**



Testing the Installation: The Civacon SAF-T Ground Wire contains a diode. The installation can be tested with a standard digital multimeter that has a “diode test” scale. The meter’s dial will have a test function position marked “→+”

Test the installed Ground Wire by touching the Red Test Lead to Pin #10 and the Black Test Lead to Pin #9. The Meter’s Display should read 0.500 to 0.700 Volts. Reverse the test leads (Red on #9 and Black on #10), and the Meter’s Display should read 0 Volts, or OL (same as when test leads are not touching anything). ***If “YES” the installation is OK.***



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Rev.B, Mar 2020

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