

External Shunt Installation Instructions For Operation with BTAS

Preliminary – V1.1 – 13 June 2011



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The External Shunt is used to allow the use of any Charger-Analyzer with the BTAS16 System by providing battery current information (charge or discharge), to the control program.

1. See [Figure 2] for a suggested insertion point in the Battery Cable.
2. Cut the Negative Lead of the Battery Cable close to the connector at the Charger-Analyzer side, about 15cm to 30cm (6 to 12 inches).
3. Attach a ring terminal to the Charger-Analyzer end.
 - 3.1. Use the size appropriate to the cable gauge (6 or 4).
 - 3.2. Crimp/solder as per tooling availability.
4. Connect this cable end to the shunt. Torque to 120lb-in. This side is the “negative” side of the shunt, as identified by the black sensing lead.
5. Pass the shunt through the enclosure and repeat the connection on the other end.
6. Fasten the leads with the supplied tie-wrap.
7. Note: If the negative lead in the Charger-Analyzer is not connected to chassis, a chassis to negative side of the shunt connection is required for proper current measurement. Failure to do so will result in inaccurate and unstable readings, particularly in charge.
8. Place the end caps and secure with the supplied hardware.
9. Connect the Shunt Cable to the Shunt input in the C-Scan
 - 9.1. Verify that the BTAS program recognizes the connection as Cable #1 (100A).
10. Test by monitoring the current in the BTAS Main Screen.
 - 10.1. Simply run the Charger-Analyzer. No need to start a recording.
 - 10.2. Check for proper polarity and value of the current.

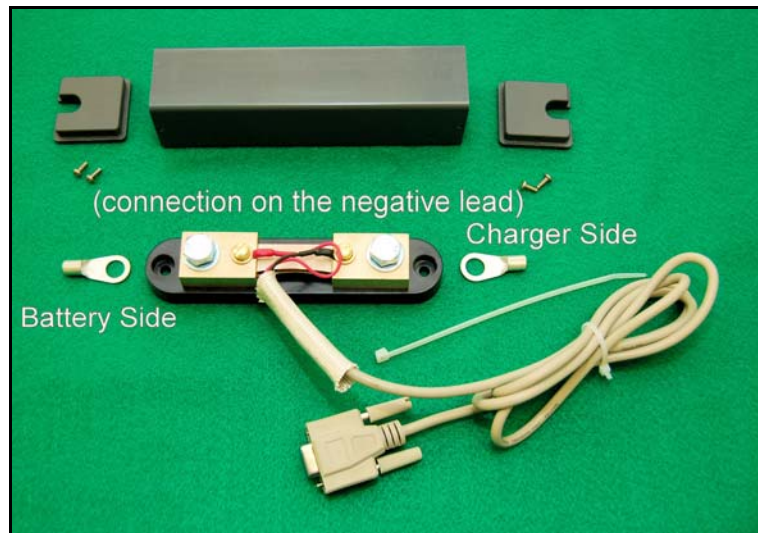


Figure 1 - External Shunt Kit

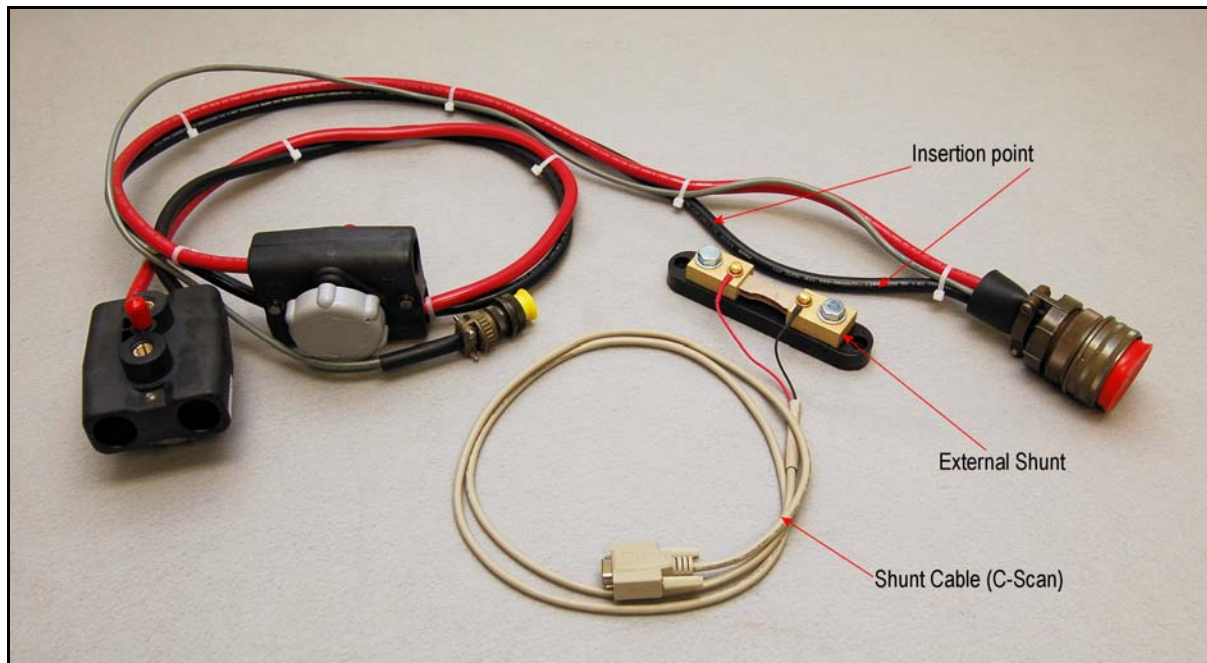


Figure 2 – Suggested External Shunt Insertion Point

Table 1 - Index of Revisions

REVISION	DATE	NOTES
V0.1	7 April 2011	Preliminary writing
V1.1	13 June 2011	Updated picture and instructions