SIEMENS

Installation Instructions
Document No. 538-761
Rev. 4, December, 2001

High Speed Trunk Isolator/Extender (HSTIE)

Product Description

The High Speed Trunk Isolator/Extender (HSTIE) is used to protect, isolate, extend, and re-time a BLN or FLN trunk.

Product Numbers

Description	Product Number
HSTIE (538-965) with 115V 60 Hz power pack (538-757)	538-955
HSTIE (538-965) with 230V 50 Hz power pack (538-758)	538-960

CAUTION:

Use only with the plug-in transformer shipped with this device.

Required Tools

- Small flat-blade screwdriver
- Medium Phillips screwdriver
- Wire strippers

Expected Installation Time

20 minutes

Prerequisites

- Source of transient protected AC is available.
- BLN trunk and cabinets have been checked for earth ground.

NOTE: To comply with installations requiring Class 1 conduit connections, you may mount the HSTIE in the field panel.

Instructions

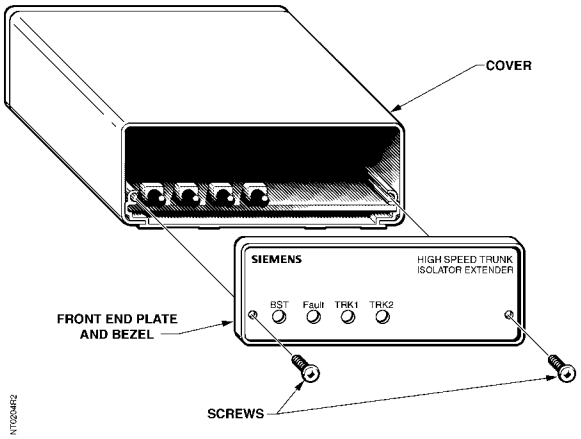


Figure 1. HSTIE with Front End Plate and Bezel Removed.

1. Remove the screws holding the front end plate and bezel (Figure 1).
2. Remove the end plate, bezel, and cover (Figure 1).

CAUTION:

In order to control electro-static discharge, do not remove the Printed Circuit Assembly (PCA) from the base. Do not touch the PCA electronics when making the DIP switch changes.

3. Set the DIP switches to the proper bit rate and operational mode according to the label located inside the cover.
4. Set the trunk biasing DIP switches according to the information inside the cover. See Figure 2 for location of switches on the HSTIE board.
   a. If the HSTIE is used at the end of the trunk, then set the termination switch(es) to the End of Line position. In this position, the HSTIE will properly terminate the trunk without the need of an external termination network.

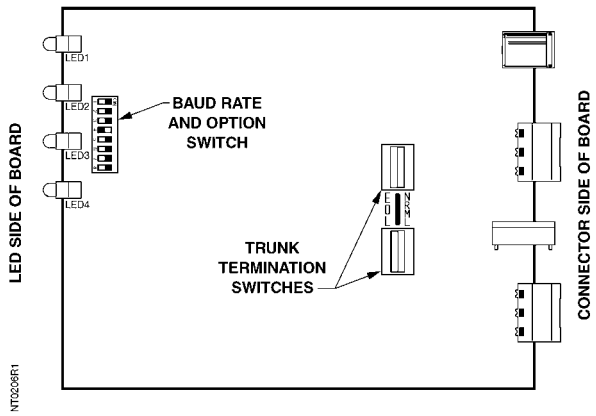


Figure 2. Jumpers and Dip Switches.

b. If the HSTIE is placed at any other location than the end of the trunk, then place the termination switch(es) in the Normal position.

5. Replace the screws, removed in step 1 that hold the cover, bezel, and front end plate.
6. Connect the trunk to the trunk ports, making sure the trunk polarity is correct (S, -, +). See Figure 3.
7. Connect the earth ground wire to the HSTIE and the nearest earth ground (i.e., center cover screw of a grounded outlet, field panel backplane mounting bolts or power supply mounting bolts, or a screw connection to the back of a metallic grounded outlet box). See Figure 5 for earth ground locations in field panels.
8. Plug in the DC power plug, and plug the power pack into the AC outlet.
9. Place the HSTIE in its installed position. See Figure 4 for placement locations within field panels.
10. Check to ensure the BST light on the HSTIE is flashing.

NOTE: If the trunk has active field panels, then the trunk traffic LEDs should also be flashing.

The installation is now complete.

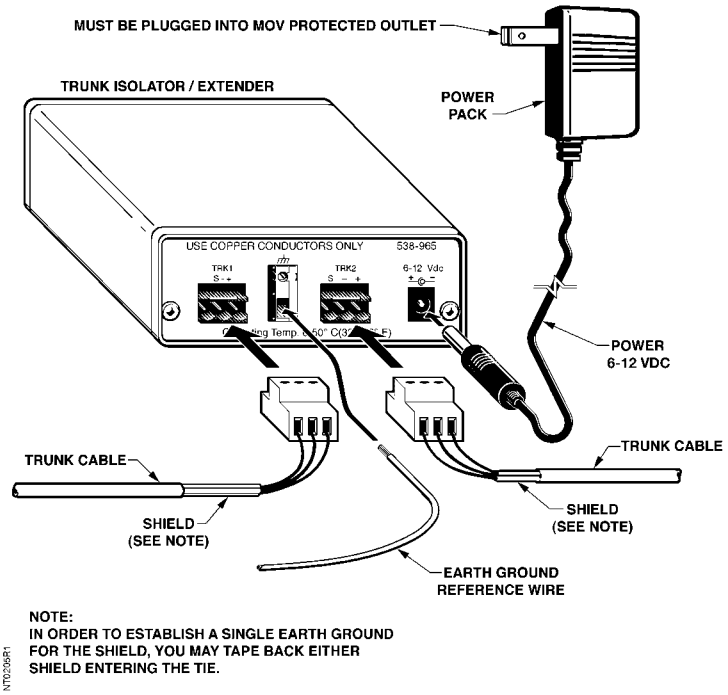


Figure 3. Connections to HSTIE.

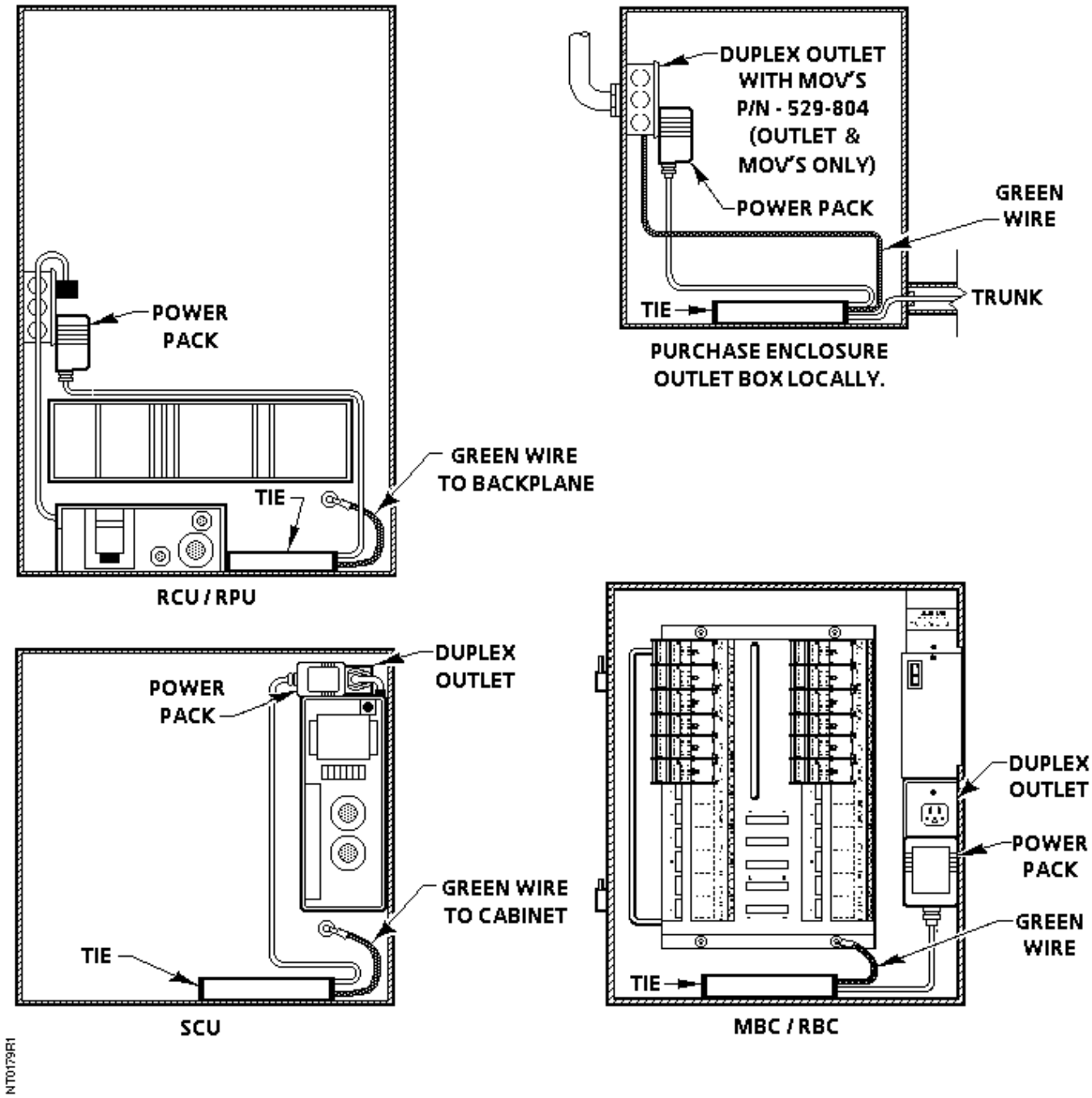
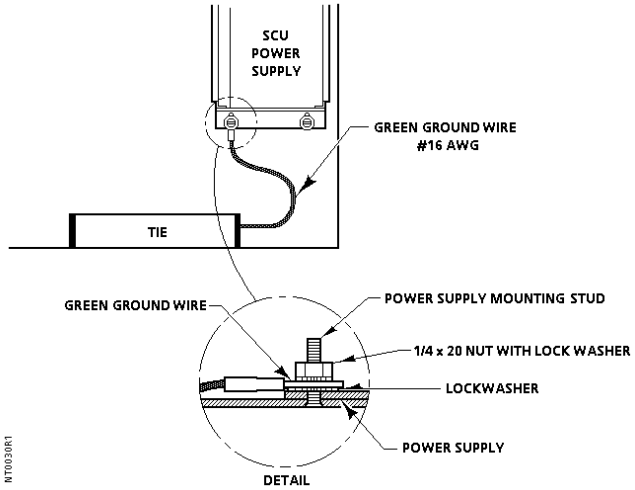
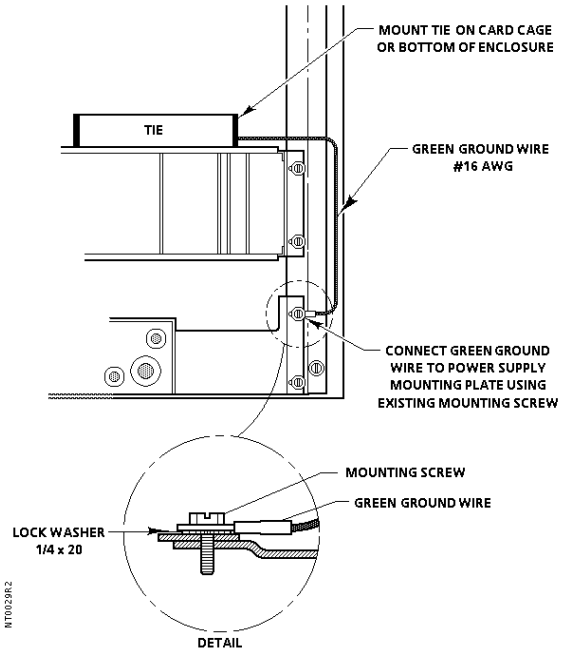


Figure 4. HSTIE Placement within an Enclosure.

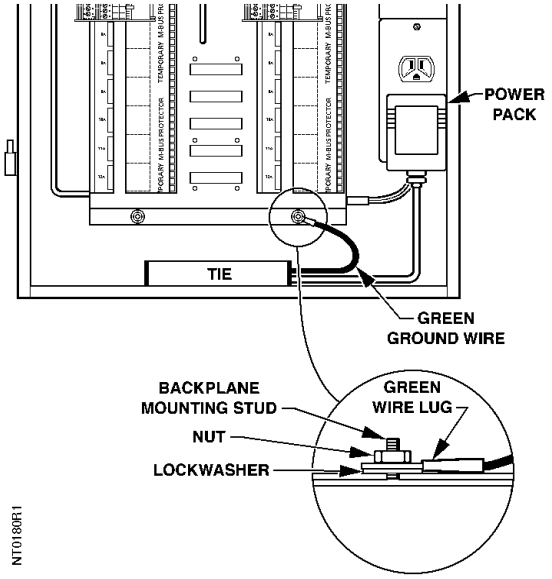
SCU



RCU/RPU



MBC/RBC



Locally Purchased Mounting Hardware

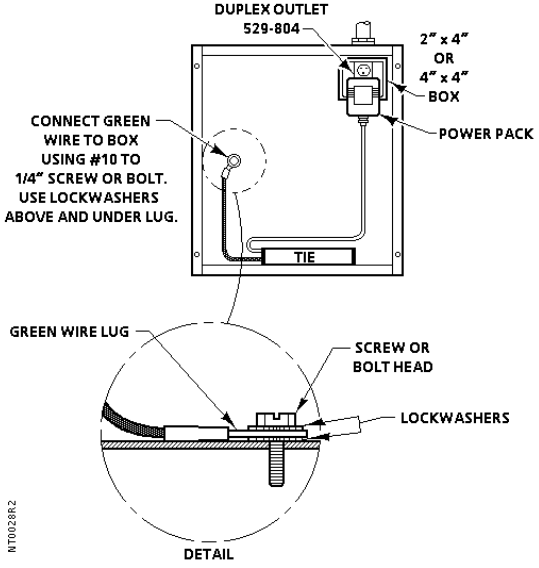


Figure 5. Earth Ground Connections in Enclosures.

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