

## 810140

### CurrentKeeper™

- Maintains power to the decoder for up to 10 seconds during electrical interruptions
- Compatible with NMRA DCC Standards & Recommended Practices

#### Important for a Successful Installation

Before you install the CurrentKeeper, there are some simple precautions you should take.

- Digital Sound Decoders and accessories such as the CurrentKeeper should be handled carefully in a static-free environment. To discharge static electricity, touch a grounded water pipe or bare sheet metal surface before beginning your installation.
- Work in a clean, well-lit area on a non-conductive surface. Metal scraps and dirt can get onto the decoder's circuitry and cause shorts.
- Never make connections to the decoder while it is powered. Doing so makes for an accident waiting to happen.
- Do not remove the CurrentKeeper's protective shrink wrap.

#### About the Current Keeper

Properly installed, the CurrentKeeper maintains power to a decoder for up to 10 seconds during electrical interruptions, depending on the load and locomotive or rolling stock.

All Tsunami2 and Econami Digital Sound Decoders, as well as the Tsunami SoundCar, are populated with an onboard socket for the easy installation of the CurrentKeeper, except the Tsunami2 TSU-1100 and Econami ECO-100 board formats.

#### Installing the CurrentKeeper

**IMPORTANT:** This CurrentKeeper Instruction Sheet includes instructions for using the CurrentKeeper with decoders equipped with the CurrentKeeper connection, ECO-100, TSU-1100, and the following Tsunami Digital Sound Decoders:

TSU-1000, TSU-750, and TSU-AT1000, which are all first-generation Tsunami Digital Sound Decoders. For information about using it with other SoundTraxx products, contact our Technical Support staff at [support@soundtraxx.com](mailto:support@soundtraxx.com) or (970) 259-0690.

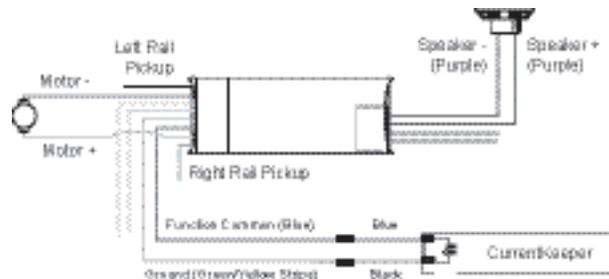
#### Using the CurrentKeeper with Decoders Equipped with a CurrentKeeper Connection

1. Insert the 2-pin female plug on the CurrentKeeper into the 2-pin male connector on the decoder.

**Caution:** Use your finger to hold the board-mounted socket firmly against the circuit board when plugging in the connector to prevent the socket from being torn off of the circuit board. The connector goes in one way, so check that it is properly aligned before plugging it in. It is a snug fit once plugged in, and difficult to remove. If it is necessary to unplug the CurrentKeeper, use one finger to hold the socket firmly against the circuit board, while using your other hand to grasp the connector (not the wires!) and gently wiggle it from side to side as you pull the connector straight out.

#### Using the CurrentKeeper with the ECO-100 or TSU-1100 Digital Sound Decoders

1. Start by removing the two-pin plug on the end of the CurrentKeeper with wire cutters.
2. Trim the blue and black wires to 3".
3. Strip and tin the ends of the wires on the CurrentKeeper, as well as the blue (Function Common) and green/yellow striped wires attached to the TSU-1100 or ECO-100.
4. Slide one piece of the black heat-shrink tubing included with the CurrentKeeper over each of the CurrentKeeper's wires.
5. Solder the blue CurrentKeeper wire to the blue decoder wire and the black CurrentKeeper wire to the green/yellow striped decoder wire. Slide the pieces of heat-shrink tubing over the connections and heat to insulate.



Connections for CurrentKeeper with TSU-1100 or ECO-100

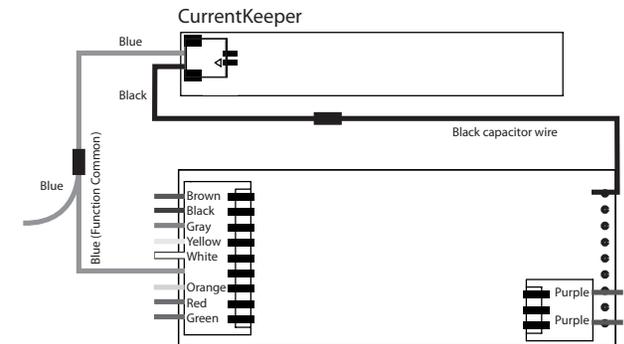
#### Installation Procedures for Discontinued Products

1. The TSU-1000 and TSU-AT1000 decoders have a factory-installed capacitor. Remove it by using wire cutters to clip the red and black wires, leaving about 3" of the black capacitor wire still attached to the decoder. The red capacitor wire may be clipped and discarded.
2. Remove the two-pin plug on the end of the CurrentKeeper with wire cutters.
3. Using wire cutters, trim the blue and black wires to 3".

For Steps 4-6, follow the instructions for the specific decoder model.

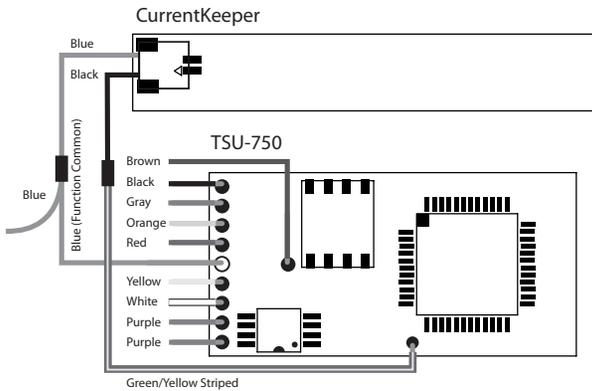
#### For the TSU-1000

4. Strip and tin the ends of the wires on the CurrentKeeper, as well as the Tsunami's black wire from the capacitor removed in Step 1 and the Tsunami's blue wire (Function Common).
5. Slide one piece of the black heat-shrink tubing included in your packaging over each of the CurrentKeeper's wires.



6. Solder the blue CurrentKeeper wire to the blue decoder wire and the black CurrentKeeper wire to the black decoder capacitor wire. Slide the pieces of heat-shrink tubing over the connections and heat to insulate. **Note:** Make sure you are soldering to the black capacitor wire remaining from Step 1, and not the black wire for rail pickups.

For Steps 4-6, follow the instructions for the specific decoder model.



#### For the TSU-750

- Strip and tin the ends of the wires on the CurrentKeeper, as well as the blue (Function Common) and green/yellow striped wires attached to the Tsunami.
- Slide one piece of the black heat-shrink tubing included in your packaging over each of the CurrentKeeper's wires.
- Solder the blue CurrentKeeper wire to the blue decoder wire and the black CurrentKeeper wire to the green/yellow striped decoder wire. Slide the pieces of heat-shrink tubing over the connections and heat to insulate.

#### For the TSU-AT1000

- Strip and tin the ends of the wires on the CurrentKeeper, as well as the Tsunami's black wire from the capacitor removed in Step 1.
- Slide one piece of the black heat-shrink tubing included in your packaging over the CurrentKeeper's black wire.
- Solder the blue CurrentKeeper wire to tab 9 (Function Common) on the decoder and the black CurrentKeeper wire to the black decoder capacitor wire. Slide the piece of heat-shrink tubing over the connection and heat to insulate.

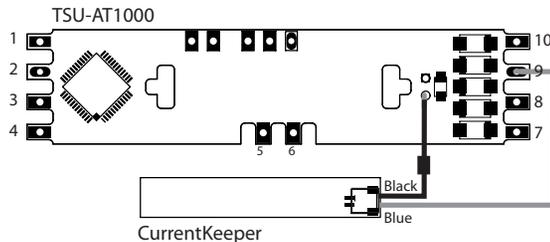
#### For All

Secure the CurrentKeeper in place with Kapton® tape (or equivalent).

**Note:** Once placed on the track, it will take about 2 minutes for the CurrentKeeper to be fully charged.

#### For the TSU-1000

- Strip and tin the ends of the wires on the CurrentKeeper, as well as the Tsunami's black wire from the capacitor removed in Step 1 and the Tsunami's blue wire (Function Common).
- Slide one piece of the black heat-shrink tubing included in your packaging over each of the CurrentKeeper's wires.
- Solder the blue CurrentKeeper wire to the blue decoder wire and the black CurrentKeeper wire to the black decoder capacitor wire. Slide the pieces of heat-shrink tubing over the connections and heat to insulate.



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**SOUNDTRAXX**  
New Dimensions in Digital Sound Technology

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