

SOUNDTRAXX

Application Note

Kato F40PH

Tsunami Digital Sound Decoder Installation Notes

Overview

This application note describes how to install a Tsunami TSU-KT1000 Digital Sound Decoder into the HO Kato F40PH.

Skill Level 1: The entire installation can be completed in less than an hour with no modification required to the model.



Bill of Materials

<u>Stock No.</u>	<u>Description</u>
828064	TSU-KT1000 for the F40PH
810054	1" Speaker

Tools You Will Need

- Miniature screwdriver set
- Wire Strippers
- Miniature Pair of Pliers
- 25W Soldering Iron
- Rosin Core Solder
- Tweezers



Installation

1. Start by removing the body shell according to instructions included with model. (Photo 1)



Photo 1

2. On each side of the manufacturer's light board you will notice two metal strips that are clipped to the board. Using a pair of tweezers, gently lift the top of the strip up and away from the circuit board, leaving the bottom of the strip connected.

Note that the bottom of these strips can move easily, but you do not want them to be dislodged from the locomotive. (Photo 2)



Photo 2

3. Next, remove the 2 screws holding the light board in place with a Phillips head screwdriver. Set aside in a safe place – you will need them later. (Photo 3)

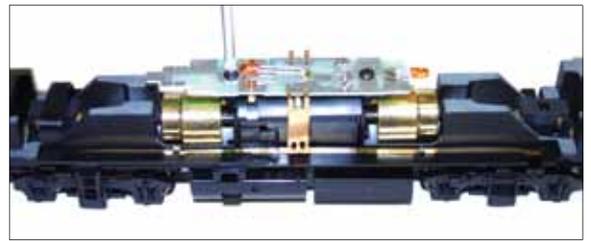


Photo 3

4. Remove the light board. Lift the board straight up so as not to damage the copper strips – these are the motor leads. (Photo 4)



Photo 4

5. Place the Sound Decoder over the motor oriented as shown. Install the copper motor lead strips fully through the appropriate holes in the decoder. Take care that the bottom of the clip does not become dislodged from the copper strip that picks up the track power. (Photo 5)



Photo 5

6. Replace the 2 screws you removed in Step 3 to hold the decoder in place. (Photo 6)

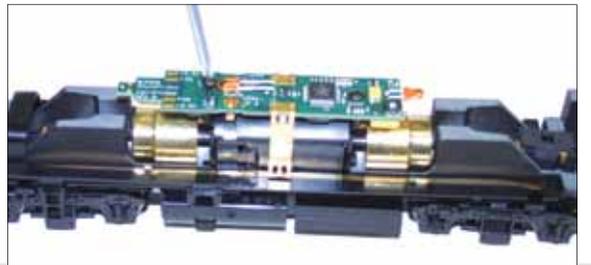


Photo 6

7. Now, locate the speaker enclosure located in the shell roof. This is designed to hold a 1" round speaker without any adhesive or additional hardware. (Photo 7)



Photo 7

8. Solder the 2 wires from the supplied harness to the speaker terminals. Positive (+) or negative (-) has little consequence for this installation. Start by stripping back a small bit of insulation. 'Tin' the wire ends and solder the wires to the terminals on the speaker. Press the speaker into the provided space with the speaker cone facing up. (If necessary you can use a bit of RTV to hold the speaker in place.) (Photo 8)

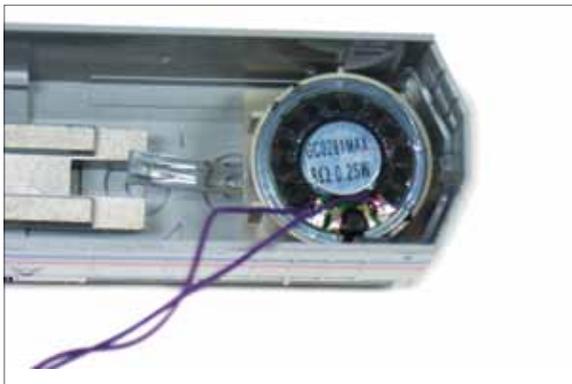


Photo 8

9. Finish up the installation by plugging in the speaker harness to the decoder. (Photo 9)



Photo 9

Now, simply replace the shell and enjoy!

Programming Notes

H.E.P. (Head End Power)

The F40PH runs constantly at 900 RPM to generate electrical power for the train. To simulate, use the Tsunami's manual notching feature. Set CV 116 to 16. Press F9 until the locomotive reaches its maximum RPMs. Use the throttle to control the speed of the locomotive. Press F10 to decrease RPMs when disconnected from the train or at the end of the run.

SOUNDTRAXX™

New Dimensions in Digital Sound Technology

141 Burnett Drive • Durango, CO 81301

(970) 259-0690 • Fax: (970) 259-0691 • Email: Sales@soundtraxx.com

©2010 Throttle Up! Corp.
All Rights Reserved