



# DHAT

HO Scale

No Solder Athearn Wiring Harness  
For Use With DCC decoders  
equipped with Digitrax 9 Pin socket

Digitrax Easy Connect System  
Digitrax 9-Pin Connection

## Features

- Easy to connect harness with no solder Athearn connections on one end and Digitrax 9 pin connector to decoder on the other end
- Allows you to share decoders among several locomotives
- Interoperable with other DCC compatible systems
- 4 function outputs rated at 500mA
- Dummy plugs (DHDP) sold separately in 5 packs

## Parts List

- |                |                      |
|----------------|----------------------|
| 1 DHAT Harness | 1 Instruction Manual |
|----------------|----------------------|

## Installation Instructions

The DHAT harness is part of the Digitrax Easy Connect system--a Digitrax 9-pin plug on one end for connecting into the decoder 9-pin socket and no solder Athearn connections to the locomotive on the other end. The harness allows the decoder to be easily installed in a variety of Athearn locomotives. The Digitrax 9-pin connector is used by many other DCC companies.

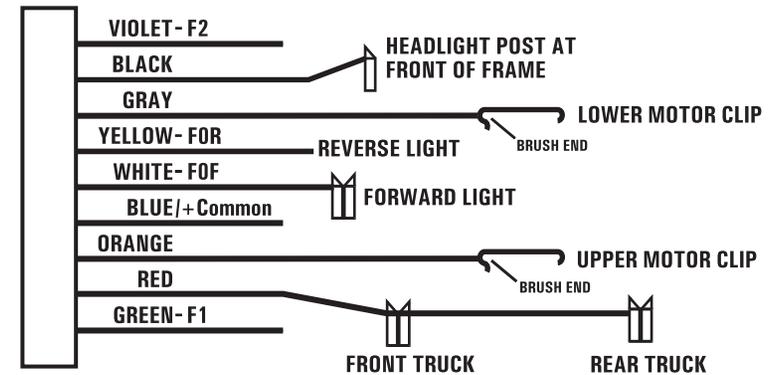
Using this arrangement it's easy to unplug the decoder from the locomotive. This is useful if you have many locos to equip and a limited budget. It also makes it easy to unplug a decoder and try a different one if you suspect a problem with a decoder.

1. The DHAT harness is installed into the locomotive using simple no-solder connections for an Athearn standard locomotive on one end and a standard 9-pin Digitrax plug on the other end that plugs into the decoder. The harness allows the decoder to be easily installed in a variety of Athearn locomotives according to the following diagram. (Figure 1) Simply remove the connectors shown below from the locomotive and replace them with the corresponding connectors on the wire harness. You do not have to solder the connectors in place but you may do so if you want to ensure a more secure installation.
2. Plug the 9-pin connector end of the harness into the decoder. The plug is notched for proper orientation of plug and socket.

*Digitrax manuals and instructions are updated periodically. Please visit [www.digitrax.com](http://www.digitrax.com) for the latest version.*



Figure 1. DHAT Wiring Diagram for Athearn Locomotives.



## Installation Notes:

1. Do not exceed the decoder's total function output rating.
2. We recommend that the Blue wire, also called +Common or Lamp Common, be connected as shown (automatically done with DCC medium plug). If you wish to omit the Blue wire in your installation, consult the Digitrax Decoder Manual for more information.
3. The head lamp should be hooked up using the Blue/+Common wire for optimal Digitrax transponding operation (automatically done with DCC medium plug configuration).
4. To use a function output with an inductive (coil) type load, see the Digitrax Decoder Manual for more information to avoid damage to the decoder.
5. See the Digitrax Decoder Manual for full details of wiring 12-16V lamps, 1.5V lamps, and LEDs. Lamps that draw more than 80 mA when running require a 22 ohm 1/4 watt resistor in series with the directional light function lead to protect the decoder.
6. Some locomotives employ filter capacitors for RFI suppression in the locomotive wiring. These may cause problems with Supersonic decoders and non-decoder analog operation on DCC. This capacitor should be removed for safe operation.

*Digitrax is not responsible for unintentional errors or omissions in this document.*



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