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DIGITAL COMMAND CONTROL THE WAVE OF THE FUTURE

DH120P

1 Amp Digital Command Control Mobile Decoder With NMRA Medium Plug

1.0 Amp (1.5 Amp Peak) Mobile DCC Decoder

Easy connect decoder wire harness

Supports Both Short (127) & Long (10,000) Address Modes

User Programmable Address, Acceleration, Deceleration,
 Start-voltage, Mid-point voltage, Max Voltage and more

Programmable from DCC compatible equipment without opening the loco

Smooth conversion to analog operation with functions operational

2 User Configurable, Independent Function Leads Rated at 200ma
 Can be used as independent functions or directional headlights

Smooth locomotive speed control with user selectable
 14, 28, or 128 forward & reverse speed step capabilities

User loadable speed tables for customized speed control

Supports Basic & UniVersal Consisting

Compatible with the NMRA DCC Standard

Complies with FCC Part 15, class B RFI requirements

Made in USA

Digitrax® DH120P Decoder Installation Wiring Diagram

The DH120P is the same as a regular DH120 decoder except that it has the NMRA Standard Plug for HO Locomotives Pre Installed.

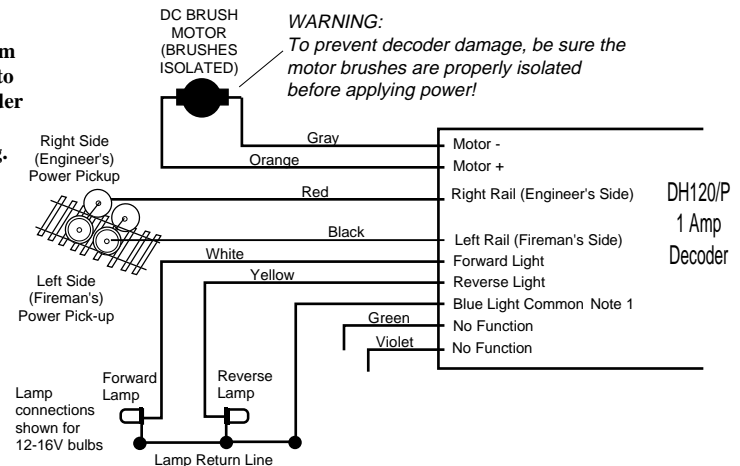
See Digitrax Decoder Users Manual for complete decoder test procedures, installation instructions & technical information. This manual is available at no charge from your dealer. If your dealer is out of these manuals, call Digitrax at (770) 441-7992 and we will gladly send you a copy.

To install the decoder with the NMRA Plug, simply remove the "Dummy Plug" from the circuit board in the Locomotive and replace it with the NMRA Plug equipped decoder.

If you are installing the decoder in an Atlas U33/36C with any of the following Road Names/Numbers, please consult the Atlas Decoder Advisory that came with your locomotive prior to installation. Santa FE 8706, 8755, & 8788. Delaware & Hudson 754, 760, 762. Erie Lackawanna 3316, 3321, 3324. Illinois Central 5056, 5058, 5059. Milwaukee Road 5700, 5702, 5703. Unless the circuit board inside the engine is replaced, you will need to remove the green wire from the NMRA plug prior to installation.

DH120 is a two function decoder. Use the White & Yellow leads for function control. Violet & Green wires are present on the decoder but do not have functions.

NOTE:
 This Diagram Shows how to wire a decoder without the NMRA Plug.



WARNING:
 To prevent decoder damage, be sure the motor brushes are properly isolated before applying power!

Notes:

1. Light Common is the positive lead for "full wave" function power operation. Do not exceed the 200ma rating of the function outputs. If Light Common is not used, power the lamp or function from either track power pick-up for "half-wave" operation by connecting the Lamp Return Line to either track pickup.
2. See the Digitrax Decoder Users Manual for full details of wiring 12-16V lamps, 1.5V lamps, & LED's for full and half wave operation. Lamps that draw more than 80ma when running require a 22 ohm 1/4 watt resistor in series with the directional light function lead to protect the decoder.



Damaged decoders should be returned directly to Digitrax for repair.
 The standard repair charge is \$17.