Jacobsen Declaration
Exhibit D
Instructions for DH121 Series Decoder Installation

DH121, DH121P, DH121PS, DH121AT

1.5 Amp (2.0 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, Advanced & UniVersal Consisting

Compatible with the NMRA DCC Standard

Complies with FCC Part 15, class B RFI requirements

Made in USA

Digitrax Command Control

450 Cemetery ST #206 Norcross, GA USA 30071
(770)441-7992 FAX (770)441-0759
Web Site: http://www.digitrax.com

DH121
1.5 Amp Digital Command Control Decoder
Decoder Installation Wiring Diagram
For DH121 Series Decoders

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, contact Digitrax (770) 441-7992, Fax (770) 441-0759, or e-mail sales@digitrax.com and we will gladly send you a copy.

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

Note: DH121 uses the same wire harness as other DH Decoders but, the green & violet wires are not functional in the DH121.

* On DH142 & DH121, forward and reverse lights can be run as independent functions on F0 & F4. See CV61 below and see Digitrax Decoder Manual for Complete Instructions.

<table>
<thead>
<tr>
<th>Commonly Used Configuration Variables</th>
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<tbody>
<tr>
<td>CV01 2-digit address 03</td>
<td>CV61 Directional Lights or White=F0 &amp; Yellow=F4. 1</td>
</tr>
<tr>
<td>CV02 Start Voltage 0</td>
<td>CV49-54 FX Effect Set ups See Manual</td>
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<td>CV03 Acceleration Rate 0</td>
<td>CV65-95 Loadable Speed Tables See Manual</td>
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<td>CV04 Deceleration Rate 0</td>
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<td>CV05 Maximum Voltage 0</td>
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<tr>
<td>CV06 Mid Point Voltage 0</td>
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<tr>
<td>CV29 Configuration 06=Advanced Mode, Analog Conversion On</td>
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<tr>
<td>Register 04=Standard Mode (14 Speed Steps), Analog Conversion On</td>
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</tr>
<tr>
<td>Examples: 07=Reversed Direction, Advanced Mode, Analog Conversion On</td>
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<tr>
<td></td>
<td>16=Enable Loadable Speed Table, Analog Conversion On</td>
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Damaged decoders should be returned directly to Digitrax for repair.
The standard repair charge is $17.