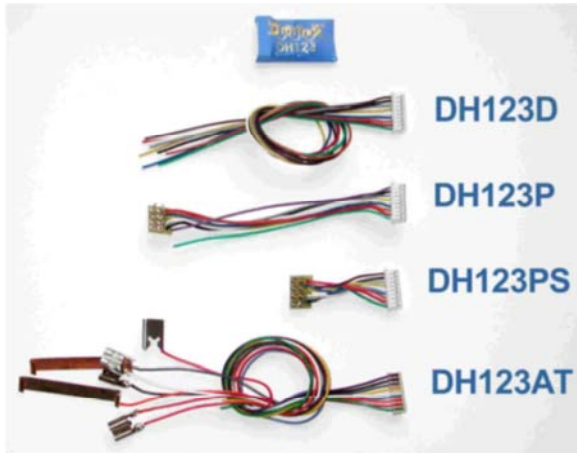


# Digitrax Decoder Index

## DH123 Series



The DH123 decoder is available with 4 different Digitrax Easy Connect Wire Harnesses.

[DH123D Instructions](#)   [DH123P Instructions](#)   [DH123PS Instructions](#)  
[DH123AT Instructions](#)   [Digitrax Decoder Manual](#)

Physical Size	0.66" x 1.2 x 0.25" 16.76mm x 30.48mm x 6.35mm	Current Rating	1.5/2.0 Amps	
Interface	Decoder End	Wires		End/Plug
DH123D	DTX 9	6.9"	175 mm	Wires
DH123P	DTX 9	3.5"	88 mm	DCC Med
DH123PS	DTX 9	1.2"	30 mm	DCC Med
DH123AT	DTX 9	5.9"	150 mm	Athearn Clips

# Functions	2	Function Current Rating	500mA	Function Type	<a href="#">FX<sup>3</sup></a>
Prod Date	11-13-2002	Discontinued	Current	Replaced By	N/A

### [FX<sup>3</sup> Motor Isolation Protection Note](#)

CV#	Feature	Default	Range	Notes
<a href="#">2 Digit and 4 Digit Addressing</a>				
01	2 Digit Decoder Address	003/x03	001-127	
17	4 Digit Address Hi Byte	000/x00	0128-9983	CV17 & 18 are used together
18	4 Digit Address Lo Byte	000/x00	0128-9983	
29	Configuration Register	006/x06	<a href="#">Table 29</a>	
<a href="#">Configuration Register</a>				
29	Configuration Register	006/x06	<a href="#">Table 29</a>	
	Address Selection, 2 or 4 digit	2 Digit	2 or 4 Digit	
	Normal Direction of Travel (NDOT)	Fwd	Fwd/Rev	
	Speed Step Control	28/128	14 or 28/128	
	Speed Table On/Off	Off	Speed Table On or Off	
	Analog Mode Conversion On/Off	On	On or Off	
<a href="#">LocoMotion™</a>				

<a href="#">Acceleration &amp; Deceleration</a>				
03	Acceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
04	Deceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
<a href="#">Three Step Speed Table &amp; Start Voltage</a>				
02	Start Voltage	000/x00	000/x00 to 255/xFF	128 Steps
05	Maximum Voltage	000/x00	000/x00 to 255/xFF	128 Steps 000/x00, 001/x01 & 255/xFF= max voltage at step 28
06	Mid Point Voltage	000/x00	000/x00 to 255/xFF	128 Steps 000/x00 & 001/x01= straight line curve
<a href="#">28 Step Speed Tables</a> -256 step resolution				
65	Kick Start value	000/x00		128 Step Interpolated
66	Forward Trim	000/x00		128 Step Interpolated
67	First Speed Table Entry	000/x00		128 Step Interpolated
68-93	28 Step Speed Table Entries	000/x00		128 Step Interpolated
94	Maximum Speed Table Step	000/x00		128 Step Interpolated
95	Reverse Trim	000/x00		128 Step Interpolated
29	Configuration Register	006/x06	<a href="#">Table 29</a>	Set to enable speed tables
<a href="#">Torque Compensation &amp; Switching Speed</a>				
53	Not Used in FX <sup>3</sup> Decoders			Not Available
54	Torque Compensation Switching Speed	000/x00	<a href="#">Table 54</a>	
DC Functions				
13	DC Functions ON Not Used in FX <sup>3</sup>		Automatic	Not Used FX <sup>3</sup>
<a href="#">FX<sup>3</sup> Functions</a>				
49	F0F, forward light effect white	000/x00	<a href="#">FX<sup>3</sup> Effects Table</a>	
50	F0R, reverse light effect yellow	000/x00	<a href="#">FX<sup>3</sup> Effects Table</a>	
51	F1, Function 1 green	000/x00		Not Available
52	F2, Function 2 violet	000/x00		Not Available
113	F3, Function 3 brown	000/x00		Not Available
114	F4, function 4 white/yellow	000/x00		Not Available
115	F5, Function F5 white/green	000/x00		Not Available
116	F6, Function F6 white/blue	000/x00		Not Available
62	FX Rate and Keep alive adjust	000/x00	000/x00 to 255/xFF	
63	Ditch Light Blink hold time	000/x00	000/x00 to 255/xFF	
<a href="#">Directional Headlights, Transponding, Split Field Motor</a>				
61	Directional Headlight	Directional	Remap F0 Forward & Reverse	Not controlled by CV61 in FX <sup>3</sup> Decoders
	Transponding	Off	Off or On See <a href="#">Table 61</a>	Transponder ID ONLY
	Split Field Motor	Off	Off or On See <a href="#">Table 61</a>	
Scaleable Speed Stabilization				
55	Static Compensation	128/x80		Not Available
56	Dynamic Compensation	048/x30		Not Available
57	Speed Stabilizer-Droop	006/x06		Not Available
<a href="#">SuperSonic</a>				
09	Motor Frequency SuperSonic	000/x00	000/x00 to 255/xFF	Default is MAX
<a href="#">Advanced Consisting</a>				
19	Advanced Consist Address	000/x000	000/x00 to 255/xFF	Default is OFF
21	Advanced Consist Function Control Override for F1-F8			Not Available
22	Advanced Consist Function Control Override for F0 & F9- F12			Not Available
<a href="#">Function Remapping</a>				

33-46	Function Remapping CVs			Not Available
<a href="#">Decoder Factory Reset</a>				
08	Reset Decoder to Factory Default CV Values	129/x81	Set to 008/x08 to reset all CV Values. Set to 009/x09 to reset all CV Values except 28 step speed table values.	
<a href="#">IDs</a>				
105	User Private ID #1	000/x00		
106	User Private ID #2	000/x00		
07	Version ID			Not Available
08	Manufacturer ID	129/x81	Not affected by CV reset	

Information provided here is correct to the best of our knowledge.  
Please report any errors or omissions, to [info@digitrax.com](mailto:info@digitrax.com)

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