

Digitrax Decoder Index

DH140U/HAG501



[Digitrax Decoder Manual](#)

Physical Size	0.67" x 1.05" x 0.25" 17.02mm x 26.67mm x 6.35mm		Current Rating	1.5/2.0 Amps
Interface	Decoder End	Wires		End/Plug
D	DTX 9	6.9"	175mm	Wires

# Functions	4	Function Current Rating	200mA	Function Type	FX
Prod Date	08-07-1999	Discontinued	08-01-2002	Replaced By	Not Replaced
Produced for HAG as OEM as HAG 501					

[FX Motor Isolation Protection Note](#)

CV#	Feature	Default	Range	Notes
2 Digit and 4 Digit Addressing				
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	Table 29	
Configuration Register				
29	Configuration Register	006/x06	Table 29	
	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	
LocoMotion™				
Acceleration & Deceleration				
03	Acceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
04	Deceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
Three Step Speed Table & Start Voltage				
02	Start Voltage	000/x00	000/x00 to 255/xFF	128 Steps
05	Maximum Voltage	000/x00	000/x00 to 255/xFF	28 Steps 000/x00, 001/x01 & 255/xFF= max voltage at step 28
06	Mid Point Voltage	000/x00	000/x00 to 255/xFF	28 Steps 000/x00 & 001/x01=

				straight line curve
28 Step Speed Tables-28 Step Only				
65	Kick Start value	000/x00		28 Step
66	Forward Trim	000/x00		28 Step
67	First Speed Table Entry	000/x00		28 Step
68-93	28 Step Speed Table Entries	000/x00		28 Step
94	Maximum Speed Table Step	000/x00		28 Step
95	Reverse Trim	000/x00		28 Step
29	Configuration Register	006/x06	Table 29	Set to enable speed tables
Torque Compensation & Switching Speed				
53	Used for FX in FX Decoders			Not Available
54	Torque Compensation Switching Speed			Not Available
DC Functions				
13	DC Functions ON			Not Available
FX Functions				
49	F0F, forward light effect white	000/x00		Not Available
50	F0R, reverse light effect yellow	000/x00		Not Available
51	F1, Function 1 green	000/x00		Not Available
52	F2, Function 2 violet	000/x00		Not Available
53	F3, Function 3 brown	000/x00		Not Available
54	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		Not Available
63	Ditch Light Blink hold time	000/x00		Not Available
Directional Headlights, Transponding, Split Field Motor				
61	Directional Headlight	000/x00	Table 61 Dir or Non-dir	
	Transponding			Not Available
	Split Field Motor		Table 61	
Scaleable Speed Stabilization (Back EMF)				
55	Static Compensation	128/x80	000/x00 to 255/xFF	
56	Dynamic Compensation	048/x30	000/x00 to 255/xFF	
57	Speed Stabilizer-Droop	006/x06	000/x00 to 015/x0F	
SuperSonic				
09	Motor Frequency SuperSonic			Not Available
Advanced Consisting				
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
Function Remapping				
33-46	Function Remapping CVs			Not Available
Decoder Factory Reset				
08	Reset Decoder to Factory Default CV Values			Not Available
IDs				
105	User Private ID #1	000/x00		
106	User Private ID #2	000/x00		
07	Version ID	170/xAA	Read/Write	
08	Manufacturer ID	129/x81		

Information provided here is correct to the best of our knowledge.
Please report any errors or omissions, to info@digitrax.com

Return to Digitrax [Decoder Index Page](#)

Return to Digitrax [Home Page](#)

This page, and all contents, are Copyright (C) 2003 by Digitrax, Inc., Norcross, GA, USA.

Updated 01-20-03.