DN1137e24

Fits E24 socket locomotives

N Scale
Mobile Decoder
Plug-in E24 socket
Motor drive at connector capacity
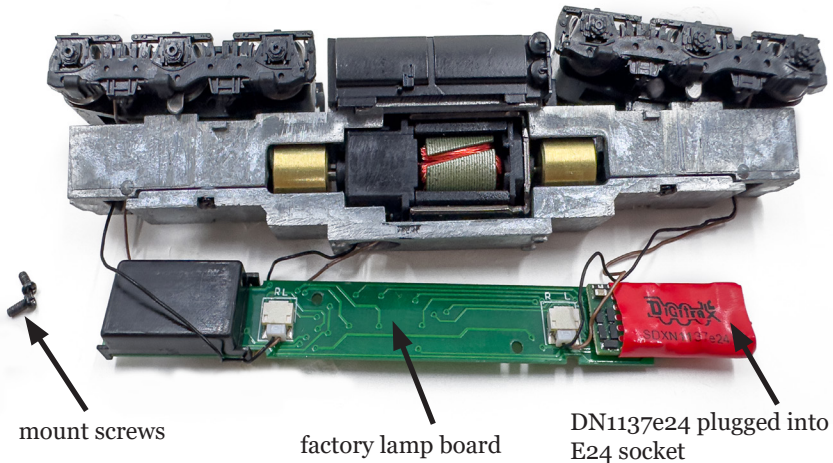13 FX^3 Functions, 200mA capacity

Features:

- 24-Pin E24 Plug for all track, motor and function connections, allows decoder to be moved between different locomotives.

- Series 7 Enhanced Decoder Features.

- XF expanded function capability, allows user remap of function keys F0-28 to function output leads.

- Firmware may be user updated using a Digitrax USB equipped Command Station with Sound Loader in decoder IPL mode.

- Digitrax FX^3 Functions-Control lights and functions for prototypical lighting effects and on/off control.

- Configurable FX^3 Pulse Function available on all function outputs.

- Digitrax LocoMotion® System – Lets your trains run like the real thing!

- 2 Digit and 4 Digit Addressing.

- Basic, Advanced & UniVersal Consisting.

- SuperSonic motor drive for silent operation.

- Direct and Operations Mode programming.

- Program CVs using any Digitrax Compatible Control system without having to buy any extra equipment. Decoder Reset by CV8, with or without speed table reset.

- Transponder Equipped ready for transponding ID on your layout.

- Power-on Motor Isolation Protection, helps prevent damage to your decoder.

- DCC Compatible.

- FCC Part 15, Class B RFI compliant.

- Operates on DCC track voltage 9V minimum. to 18V maximum.

Parts List:

1 DN1137e24 Mobile Decoder with E24 plug interface
1 Instruction Sheet

Visit www.digitrax.com for the latest Series7 decoder information, technical updates and additional locomotive-specific installation instructions.

mount screws

factory lamp board

DN1137e24 plugged into E24 socket

Installation Example: *Figure 1- DN1137e24 in Atlas N-GP9*

To install in a locomotive with a E24 socket on light board:
1. Carefully disassemble the Locomotive to remove the shell. Remove the screws holding the factory light board and place this board alongside so you can unplug part from the E24 socket.
2. Carefully align the DN1137e24's E24 plug to the empty socket, then press the decoder gently until you feel it clip into place. Once the plug is engaged the decoder will stay attached to the lamp board.
3. Place the lamp board back onto the locomotive frame and add the attachment screws.
4. Place the locomotive on a program track and set the e.g. CV1 short 2-digit address, or CV17/18 for a 4-digit address, as needed. Using the program track allows the read back of any CV value, and if successful will confirm the decoder is functional
5. Carefully replace the shell, making sure not to crimp or damage the fine wires.

Customizing Your Decoder:

The factory default for this decoder initially operates using address 03 for 2-digit short address in CV1, and CV29 with a value of 6.

The following table lists the most commonly used Series7 mobile decoder CV's, and the indicated factory default settings will work in most cases.

To restore the decoder to factory defaults, write CV8 to a value of 8 using the Service Mode programming track, or Mainline Operations Mode write. See the Digitrax web site for more information on programming Series7 decoder CVs.

CV#	Control Usage	Range	Default
1	2 Digit Address	1-127	03
2	Vstart	0-255	0
3	Acceleration Rate	0-32	0
4	Deceleration Rate	0-32	0
5	Vhigh	0-255	255
6	Vmid	0-255	128
7	Product ID- Series7 standard mobile decoder		204
8	Manufacturer ID- Digitrax		129
9	Motor Drive frequency in KHz	4-50	0->16
10	Motor feedback voltage trim	32-127	0->64
11	Packet timeout, in seconds. 0= off	0-60	0->6
17/18	4 Digit Address		0000
19	Consist 2 digit Address	1-127	0
29	Decoder Primary Configuration		6
33-46	Function to Output Lead mapping		
49	FX setting White/F0F lead	0-255	0
50	FX setting Yellow/F0R lead	0-255	0
51	FX setting Green/F1 lead	0-255	0
52	FX setting Violet/F2 lead	0-255	0
65	Kick Start	0-255	0
66	Forward Trim	0-255	127
67-94	Speed Table	0-255	
95	Reverse Trim	0-255	127
113	FX setting F3 lead	0-255	0
114	FX setting F3 lead	0-255	0
120	Decoder type- E24 interface		09
253	IPL download version		>5

Warranty & Repair

Digitrax gives a one year Warranty against manufacturing defects for this product. All decoders are 100% tested before shipping. Exercise caution during installation to avoid cost of a non-warranty return. Best practice is to bench-test a new decoder functionality as possible before installation. There are no user points to solder wires directly onto this decoder, and doing this will void warranty.

Please return warranty items directly to Digitrax - DO NOT return items to place of purchase.
errors and omissions excepted.