

RDC Prototypical Lighting

The DN143K2 comes from the factory pre-wired with lamp boards that simulate prototypical lighting in the model. The yellow lamp will be lit in the direction of travel and the the red lamp in the opposite end will also be lit. When the direction of travel is changed, the lamps will change automatically.

Scaleable Speed Stabilization

The DN143K2 comes from the factory with Scaleable Speed Stabilization disabled. To activate Scaleable Speed Stabilization, program CV57 to a value of 06. This will give good performance with most brands of locomotives. If the locomotive surges while using Scaleable Speed Stabilization, try programming CV56 to a lower CV value. Adjust the CV values programmed into CVs 55, 56, & 57 to set up the motor performance characteristics you want for each individual locomotive.

Digitrax Transponding

The DN143K2 comes from the factory with Digitrax Transponding disabled. To activate transponding program CV61 to a value of 02.

See your Digitrax Decoder Manual for complete information on all CVs and their values

Commonly Used Configuration Variables			Commonly Used Configuration Variables		
CV#	Used For	Default	CV#	Used For	Value (hex)
CV01	2-digit address	003	CV61	Directional Lights	?0
CV02	Start voltage	000		White=F0 & Yellow=F4.	?1
CV03	Acceleration rate	000		Disable Speed Stab w/F5 ON	1?
CV04	Deceleration rate	000		Disable Vstart,Vmid,Vmax	
CV05	Maximum voltage	000		in 128 step mode	2?
CV06	Mid Point voltage	000	CV49-50	Configurable Strobes (CS)	
	Scaleable Speed Stab.			(W & Y)Set ups (?1 - ?6)	See Manual
CV55	Static Adjustment	128		? = Rev	
CV56	Dynamic Adj.	048		? = F0 Qualified	
CV57	Droop	000 (000-255)		4? = On in either direction	
	0?=Std		CV65-95	Loadable Speed Tables	See Manual
	?0=Adv. Consist				
CV29	Configuration Register	006=Advanced Mode, Analog Conversion On			
	Examples:	004=Standard Mode (14 Speed Steps), Analog Conversion On			
		007=Reversed Direction, Advanced Mode, Analog Conversion On			
		022=Enable Loadable Speed Table, Analog Conversion On			

Values are shown in Hexadecimal & Decimal format.

DT100 & DT200 use hex & DT300 & DT400 use decimal or hex



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DN143K2



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Complete Train Control

DN143K2

1 Amp Digital Command Control Mobile Decoder for Kato N-scale RDC

- 1.0 Amp Mobile DCC Decoder (F1 turns on interior lights)
- Supports both short (127) and long (10,000) addresses
- User programmable address, acceleration, deceleration, start, midpoint & max voltage & more

Programmable from DCC compatible equipment without opening the loco

Automatic conversion to analog operation with functions operational

2 user configurable, independent function leads rated at 125ma are pre-wired to lamp boards to fit the RDC. The lamps are pre-set for prototypical RDC. These function leads can also be used as standard leads, directional lights or as user configurable strobes (CS)

Smooth locomotive speed control, from zero to full throttle, with user selectable 14, 28, or 128 forward & reverse speed step capabilities

User loadable speed tables for customized speed control & loco speed matching with 128 speed step resolution

Supports Basic, UniVersal & Advanced Consisting

User configurable loco direction of travel, you decide which way is forward without rewiring the motor!

Scalable Speed Stabilization for precision low speed operation

Integrated Digitrax Transponder

Interoperable with other DCC systems

Made in USA

Digitrax manuals & instructions are updated periodically. Please visit www.digitrax.com for the latest version.

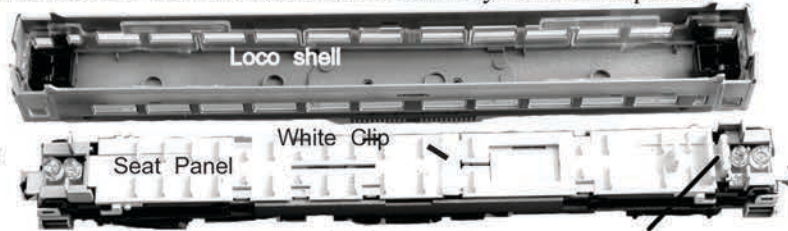


Decoder Installation Instructions For the DN143K2 Kato N-scale RDC

See the Digitrax Decoder Users Manual for complete decoder operation instructions.
This manual is available on line at www.digitrax.com

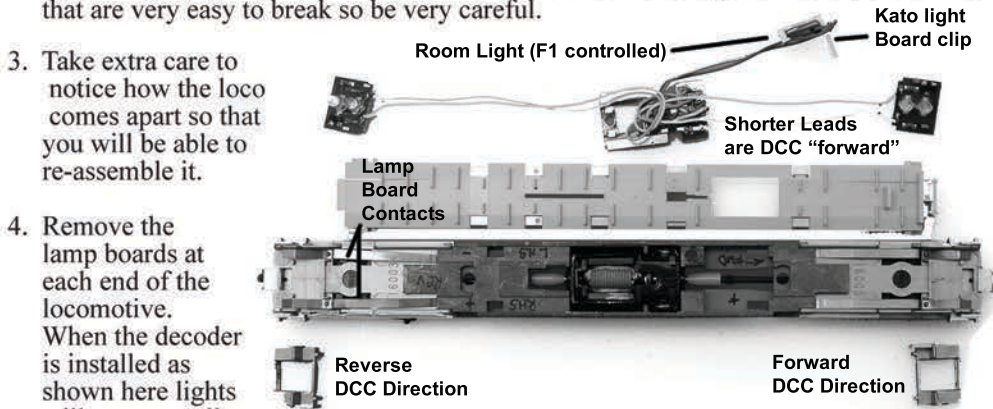
The DN143K2 cannot be tested prior to installation in the loco.

1. Carefully remove the shell from the locomotive. Carefully remove the plastic casting from the bottom side of the frame using a flat bladed screwdriver to pry it loose.



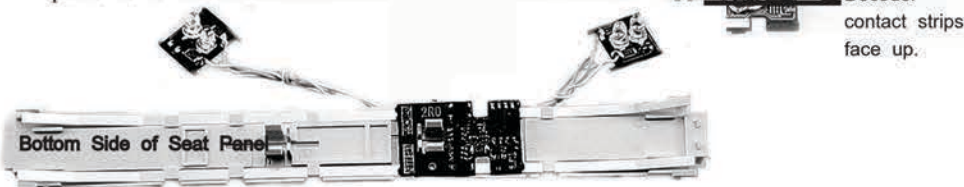
Slot for Kato clip holding room light board

2. Gently remove the white clip that holds the seat panel in place. Remove the seat panel by pushing up gently from the bottom of the frame. The seat panel has clips underneath that are very easy to break so be very careful.

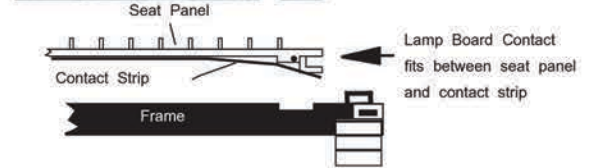
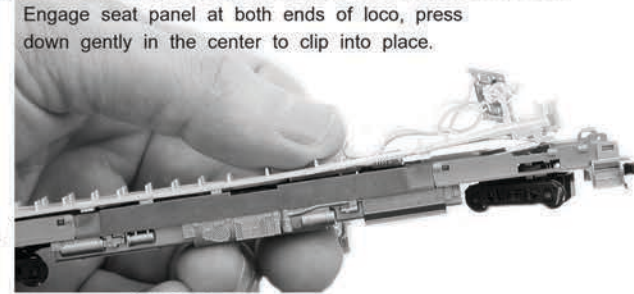


3. Take extra care to notice how the loco comes apart so that you will be able to re-assemble it.
4. Remove the lamp boards at each end of the locomotive. When the decoder is installed as shown here lights will operate yellow in the forward end and red in the rear end when the loco is running forward. The lights will automatically change when the loco is reversed.

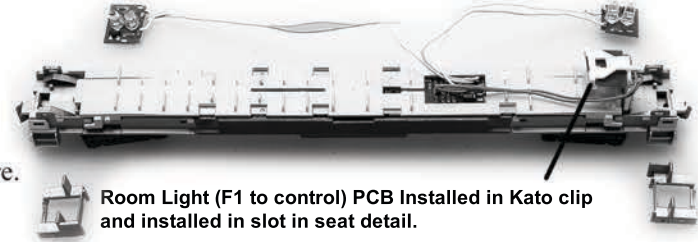
5. Remove the white plastic plug from the frame to make room for the decoder. Pass the lamp boards on the decoder through the hole in the seat panel positioning the decoder as shown. The decoder side **with wires should face towards** the seat panel assembly and the decoder side with contact strips should face up through the hole. This arrangement allows the decoder to be retained between the seat panel and the frame of the loco when the seat panel is re-installed.



6. Carefully re-install the seat panel making sure that all brass contacts are in their original position. The lamp board contacts fit between the seat panel and the contact strip. Match the holes in the lamp board contacts to the pins on the frame for the correct fit. If the seat panel was damaged during installation and you are not able to secure it back into the frame, you can use tape to hold it securely in place. Proper decoder operation depends on the seat panel assembly holding the decoder against the brass contacts.



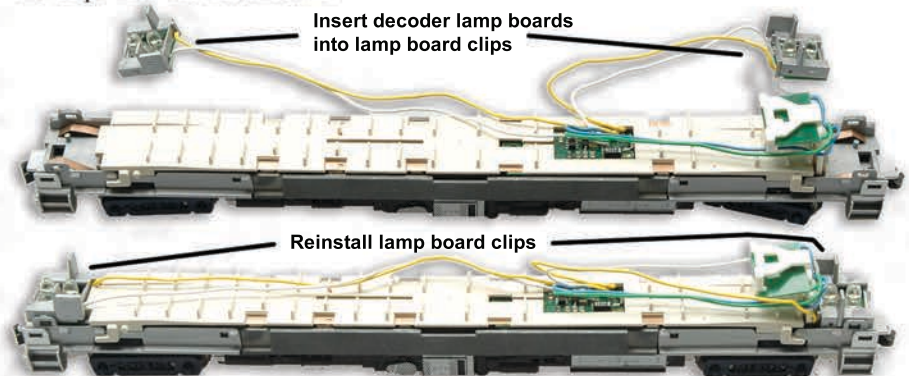
7. Remove the lamp boards from the plastic clips as shown here.



8. Modify the lamp board clips as shown here by cutting notches. You can do this with small diagonal cutters or with a hobby knife.



9. Insert the decoder's lamp boards into the modified plastic clips and re-insert the clips into the locomotive.



10. Test decoder for correct operation. Once test is completed, replace loco shell.