

NMRA DCC Decoder Test Procedure

NMRA DCC Decoder Test Test Procedure Rev: D1 Date: _____		Manufacturer: _____ Decoder: _____ Command Station / Power Station Used in testing: _____			Other Notes:					
Test #		Inspection	Applicable (Y/N)	Inspection/Test Procedure	Status (C/NC)					Notes
	Physical Inspection									
1		Wire Color Code		Inspect to verify that decoder wiring color code conforms to RP-9.1.1						
2		NMRA Plug		If decoder provides a plug to connect an NMRA socket, inspect to verify that plug meets RP-9.1.1; indicate which plug in Notes column						
	Ken's Tests									
3		Itemize all Decoder Baseline Test Suite Tests (Test #s 3A, 3B, 3C, ...)		Run all Decoder Baseline Test Suite Tests; note each test result in status column						
3A		DCC 1 Margin test	Y							
3B		DCC 1 Duty Cycle Test	Y							
3C		Ramp Test	Y							
3D		Packet Acceptance Test	Y							
3E		Bad Address Test	Y							
3F		Bad Bit Test	Y							
3G		Single Stretched 0 Test	Y							
3H		Truncated Packet Test	Y							
3I		Prior Packet Test	Y							
...	 Add the additional tests here								

	Functional Tests - Verify Factory Set CV Values										
Test #							Values Tested				
		Inspection	Applicable (Y/N)	Inspection/Test Procedure	Programming Mode Used	Status (C/NC)	Read	Write	Read	Write	Notes
4		CV1 is set to 3 from the factory	Y	Using Programming track read the value of CV1 and verify that it is 3							
5		Record Factory Set Values of CV29 if CV29 is supported		Using Programming Track, read the value of CV29 and record the factory set values							
6A		Manufacturer ID (CV8) - Register Mode	Y	If the manufacturer supports Register Mode programming, using Programming Track, verify that CV8 contains the value assigned to the manufacturer of this decoder	Register Mode						
6B		Manufacturer ID (CV8) - Direct Mode	Y	If the manufacturer support Direct Mode programming, using Programming Track, verify that CV8 contains the value assigned to the manufacturer of this decoder	Direct Mode						
6C		Manufacturer ID (CV8) - Page Mode	Y	If the manufacturer support Page Mode programming, using Programming Track, verify that CV8 contains the value assigned to the manufacturer of this decoder	Page Mode						
7A		Manufacturer Version Number CV7) - Register Mode	Y	If the manufacturer supports Register Mode programming, using the Programming Track, verify that CV7 contains a decoder value indicating the manufacturer's assigned version; compare to any similar information on the manufacturer's accompanying decoder documentation	Rgister Mode						
7B		Manufacturer Version Number CV7) - Direct Mode	Y	If the manufacturer support Direct Mode programming, using the Programming Track, verify that CV7 contains a decoder value indicating the manufacturer's assigned version; compare to any similar information on the manufacturer's accompanying decoder documentation	Direct Mode						
7C		Manufacturer Version Number CV7) - Page Mode	Y	If the manufacturer support Page Mode programming, using the Programming Track, verify that CV7 contains a decoder value indicating the manufacturer's assigned version; compare to any similar information on the manufacturer's accompanying decoder documentation	Page Mode						

	Functional Tests - Verify Factory Set CV Values (continued)								
Test #									
		Inspection	Applicable (Y/N)	Inspection/Test Procedure	Testing Method	Status (C/NC)	Testing Notes		Notes
8		Factory Set CV Values	Y	For each CV supported by the decoder, record the CV below, and check it's factory set value; also confirm if this matches the manufacturer's documented factory set value.					
				CV Name	Programming Mode	Value in Decoder	Value in Documentation		Notes
		CV1							
		CV2							
		CV3							
		...							

[illegible]

