

**NMRA STANDARDS
S-2 Coupler Standards**

NMRA STANDARD	
Couplers All Scales	
July 2010	S-2

Minor correction 5 September 2010

NAME OF SCALE				
Alpha Numeric	PROPORTION	Coupler Height inches / mm (top of rail to knuckle center)	TOLERANCE (+/-), inches / mm *	REMARKS
1"	1:12	2.875 / 73.02	0.125 / 3.17	
¾"	1:16	2.250 / 57.15	0.094 / 2.39	
F, Proto: 20.32	1:20.32	1.698 / 43.12	0.074 / 1.88	
Proto: 20.32n3	1:20.32	1.280 / 32.50	0.074 / 1.88	
Large Scale, LS Fn3 .5"	1:20.32	1.125 / 28.57	0.063 / 1.60	Knuckle
	1:22.5			
	1:24			
Large Scale, LS G	1:20 – 1:32	0.750 / 19.05		Loop & Hook
	1:29	1.063 / 27.00	0.052 / 1.32	
#1	1:32		0.047 / 1.19	
Proto: 32	1:32	1.078 / 27.38	0.047 / 1.19	
#1n3, Proto: 32n3	1:32	0.813 / 20.64	0.047 / 1.19	
O	1:48	0.688 / 17.47	0.031 / 0.79	
On3	1:48	0.563 / 14.30	0.031 / 0.79	
On30	1:48	0.391 / 9.93	0.017 / 0.43	HO Scale couplers
On2	1:48	0.344 / 8.73	0.031 / 0.79	
S	1:64	0.531 / 13.48	0.023 / 0.58	
Sn3	1:64	0.4063 / 10.32	0.023 / 0.58	
OO	1:76.2	0.453 / 11.50	0.020 / 0.51	
HO	1:87.1	0.391 / 9.93	0.017 / 0.43	
HOn3	1:87.1	0.298 / 7.57	0.017 / 0.43	
HOn2	1:87.1		0.017 / 0.43	
TT	1:120	0.281 / 7.14	0.013 / 0.33	¼ Rule: 0.0225"
TTn3	1:120	0.219 / 5.56	0.013 / 0.33	
N	1:160	0.216 / 5.48	0.010 / 0.25	
Nn3	1:160	0.154 / 3.91	0.010 / 0.24	
Z	1:220	0.154 / 3.91	0.007 / 0.18	

* - Tolerances based on AAR standard tolerance of 1.5"