

EQUIPMENT STANDARDS
SCW MODEL RAILROAD CLUB

Revised: March 1, 2019

1) LOCOMOTIVES

- a) All engines used on DCC wired tracks will be equipped with a DCC decoder.
- b) All DCC engines will be programmed to a unique DCC number. Four (4) digit numbers are preferred. Club owned engines take priority for assignment of new numbers.
- c) The engine road number should be incorporated where possible. All other numbers will be assigned on a first-come first-serve basis.
- d) The DCC number must be affixed to the bottom of the engine, i.e., DCC 3670.
- e) Any engines left on the layout must not be left in the factory default DCC number "03".
- f) Multiple diesel engines may have the same DCC number if they are always operated as a set.
- g) All engines must be colored coded for ownership on the bottom of the engine.
- h) All engines must be maintained by the owner to an acceptable operating standard.
- i) Any engines not meeting the above standards will be removed from the layout and stored at the club.
- j) If prior arrangements have been made, the engine may be left at the club in the designated storage location.

2) ROLLING STOCK – PASSENGER AND FREIGHT

Car Body

- a) Cars must present a finished appearance of an operable car with all parts securely attached and no obvious missing parts.

- b) Rolling stock must not exceed height and width dimensions using the NMRA standards gauge.
- c) Each piece of rolling stock must be registered. Each piece of rolling stock must have a unique reporting and car number visible on both sides.
- d) Club rolling stock will take priority in assignment of numbers. All other numbers will be assigned on a first come first serve basis.
- e) All rolling stock must be color coded for ownership on the bottom of the car.
- f) All rolling stock must be maintained by the owner to an acceptable operating standard.
- g) Any car which does not meet club standards must be removed from the layout at the end of each operating session. If prior arrangements have been made, the car may be left at the club in the designated storage location.
- h) All rolling stock must be weighted proportional to the length of the car using the following NMRA formula: one (1) ounce per car plus one-half (1/2) ounce for each inch of length. Tolerance is +/- one (1) ounce. See the table below:

Table 1:Car Weights						
Length (inches)		Scale Feet		Optimum Weight (ounce)	Acceptable Range (ounce)	
From	To	From	To			
0.0	3.0	0	22	2.5	1.5	3.5
3.1	4.0	23	29	3.0	2.0	4.0
4.1	5.0	30	36	3.5	2.5	4.5
5.1	6.0	37	44	4.0	3.0	5.0
6.1	7.0	45	51	4.5	3.5	5.5
7.1	8.0	52	58	5.0	4.0	6.0
8.1	9.0	59	65	5.5	4.5	6.5
9.1	10.0	66	73	6.0	5.0	7.0
10.1	11.0	74	80	6.5	5.5	7.5
11.1	12.0	81	87	7.0	6.0	8.0

Trucks and Wheels

- a) Trucks may be of any type and may have rigid or sprung frames. Trucks with plastic frames and steel wheels are preferred.
- b) Trucks must pivot freely from side to side and must not exhibit excessive vertical play.
- c) Wheels must be round and their axles straight.
- d) Wheels must be free rolling. Cars should be able to roll down a 2% grade freely.
- e) Wheel sets must be in gauge using an NMRA gauge.
- f) Wheel treads must be kept free of excessive dirt build-up.

Couplers

- a) Couplers must be Kadee manufactured or equivalent with the exception of cars run exclusively as a unit train or single passenger train.
- b) Individual member owned freight (except unit trains with dummy couplers) and passenger cars without Kadee couplers must be removed from the layout at the end of each operating session.
- c) Couplers should be body mounted. Talgo trucks are allowed on cars over 70 feet but not preferred.
- d) Coupler knuckle faces must meet height standards using Kadee coupler height gauge (B-205).
- e) Couplers must be self centering and have knuckle springs.
- f) Coupler trip pins must have proper horizontal and height alignment using Kadee coupler height gauge (B-205). Acceptable tolerance is +/- 1/16 inch.

3) Compliance

A member may keep ten pieces of approved rolling stock on the layout at any given time.

A member may keep three storage boxes in the designated storage areas.

Any engines or cars not meeting the above standards will be removed from the layout and stored at the club.

Any removed engine or car not claimed and/or upgraded to comply with the above standards within six (6) months of removal from the layout, will be registered as a club engine or car and used or sold at the discretion of the club. Any proceeds of a sale belong to the club.

If the owner of the equipment that has been removed from the layout and stored at the club for three (3) months can be identified, they will be notified by return-receipt letter, of the pending disposal of that equipment at the end of the six (6) month period.