



# Rolling Stock Standards

## General Rules

- A. Wheels:
  - 1. All rolling stock wheels must be metal wheels. For cars that were previously checked in with plastic wheels, they must be converted to metal wheels no later than November 30, 2012.
  - 2. Equipment shall have clean wheels.
  - 3. Wheels must conform to NMRA Standards when checked against a NMRA Mk III or IV Standards gauge.
- B. Couplers:
  - 1. Shall be Kadee MKD type, mounted at Kadee's specified height, plus or minus .010".
  - 2. Shall have freely working centering springs.
  - 3. Glad hands will clear a Kadee 205 coupler gauge and operate correctly over a Kadee magnetic uncoupling ramp.
  - 4. Shall be free of flash.
  - 5. Working front couplers are optional on steam road locomotives.
- C. All equipment running at public shows must be lettered, numbered and painted, or must represent unlettered or unnumbered prototypes.

## Rolling Stock

- A. All general rules (see above) apply to rolling stock.
- B. Weight



## Rolling Stock Standards

1. Cars shall be weighted as per NMRA Recommended Practice #20.1 :

Length	Weight	Length	Weight	Length	Weight	Length	Weight
20' -	2.4 OZ	40' -	3.8 OZ	60' -	5.2 OZ	80' -	6.5 OZ
25' -	2.7 OZ	45' -	4.1 OZ	65' -	5.5 OZ	85' -	6.8 OZ
30' -	3.1 OZ	50' -	4.5 OZ	70' -	5.8 OZ	90' -	7.2 OZ
35' -	3.4 OZ	55' -	4.8 OZ	75' -	6.2 OZ	-----	-----

Rolling stock weights must be within 1/2 oz. of spec.

2. Weights shall be firmly secured to the car.
3. Unusual cars which cannot be weighted to standard will, upon meeting all other standards, be allowed to operate on the layout per rules II.B.3,4, & 5 following.
4. Underweight rolling stock shall run at the rear of the train. Overweight rolling stock shall run at the head of the train.
5. Overweight cars will have one air hose painted white.
6. Underweight cars will have one air hose painted orange.

### C. Other

1. Trucks must rotate freely, must be able to negotiate a #4 switch without binding or derailment, and must have a slight lateral rock.
2. Rolling stock must be able to roll unassisted down a 3% grade.
3. The owner's color code markings shall be on the frame or undercarriage of all rolling stock.

## Motive Power

- A. All preceding rules, i.e. General Rules and Rolling Stock, apply to motive power, except that overweight powered or dummy locomotives are acceptable.



## Rolling Stock Standards

- B. All preceding rules, i.e. General Rules and Rolling Stock, apply to tenders, except that overweight tenders are acceptable.
- C. Motive power shall meet the NMRA Electrical standards.
- D. Motive power with 'Ernst' or any other gearing, producing similar speeds, shall have both air hoses painted silver.

### Unit Trains

- A. Unit trains, for the purpose of this standard, shall be trains intended to be a permanent group. This does not include general revenue freight cars.
- B. If a unit train cannot be made to conform to standards, it can still be run on the main line, so long as it can operate consistently on the main line, and has Kadee couplers at the head and tail ends which conform to standards.

### Check-In Procedures

- A. All rolling stock shall be checked in for club approval by club members other than the owner.
- B. All rolling stock will be logged in on a standard club form, which is retained by the equipment's owner.