

# EMRA STANDARDS, PRACTICES, & CONCEPTS

---

EMRA Document No.: P-PA-01  
Adoption Date: 2019/01/17  
Revision Date: 2018/12/06  
Revision: 0

## **STANDARDS – PASSENGER EQUIPMENT**

### **1 WHEEL SETS:**

1.1 All Passenger equipment to meet EMRA Standard No. [S-RS-01.3](#).

### **2 TRUCKS:**

2.1 Head end:

2.1.1 High speed trucks, e.g. BX express trucks.

2.2 Passenger

2.2.1 Heavy Weight

2.2.1.1 Top equalized three axle passenger trucks or approved equivalent.

2.2.2 Light Weight

2.2.2.1 Outside Swing hanger two axle passenger truck, e.g. 41-BNO-11

### **3 WEIGHT:**

3.1 All passenger equipment to meet EMRA Standard No. [S-RS-01.1](#)

### **4 COUPLERS:**

4.1 All Passenger equipment to meet EMRA Standard No. [S-RS-01.4](#).

4.2 All cars over to be 75ft to be equipped with long one long shank and one medium length coupler.  
Long shank coupler to be installed as per following:

4.2.1 Heavyweight coaches - 'B' end,

4.2.2 Lightweight coaches - 'A' end,

4.2.3 Heavyweight sleepers - 'A' end,

4.2.4 Lightweight sleeper - 'B' end,

### **5 LIGHTING:**

5.1 All occupied cars (i.e. coaches, sleepers) to be equipped with track powered lighting.

5.2 Light sources should be LED or approved low heat output alternative.

5.3 Cars equipped with lights to not draw more than 100mA

5.4 Lights to be equipped with a keep alive device in order to prevent flickering when going over dirty track or electrical breaks.

5.5 Light Colours:

5.5.1 Heavy weight: - Golden Yellow

5.5.2 Light weight: - Warm white

5.6 Cars on end of train shall be equipped with working marker lights.

## **6 DETECTION:**

6.1 All passenger equipment to meet EMRA Standard No. [S-EL-01.X](#) (Detection)

## **7 Paint**

7.1 Paint colours to match EMRA Standard No. [S-CF-01](#).

7.2 Paint Schemes

7.2.1 Heavy Weight

7.2.1.1 Dark green sides, black ends, under body and roof.

7.2.2 Light Weight

7.2.2.1 To be painted as follows: 1.5mm (1/16", 5 scale inches) yellow stripe 16mm (~55 scale inches) down from roof joint to top of stripe. The car side above the stripe to be light green, the car side below the stripe to be dark green. Car ends, under frame and roof to be black.

## **8 FONT**

8.1 All passenger equipment to match to EMRA Standard No. [S-CF-02](#).

## 9 Equipment Naming & Numbering:

Car Type	Configuration	Length	Construction	Name	Number
Express	Reefer	45'	Wood	-	100 – 109
Express	Reefer	40'	Steel	-	110 – 119
Express	Box	40'	Steel	-	120 – 129
Express	Baggage	72'	Steel – Heavyweight	-	150 – 154
Express	Baggage	72'	Steel – Lightweight	-	155 – 159
Express	Ventilated	72'	Steel – Heavyweight	-	160 – 164
Baggage	Baggage/Dormitory	80'	Steel – Heavyweight	-	170 – 174
Postal	30' RPO/Baggage	72'	Steel – Heavyweight	-	180 – 184
Postal	60' RPO/Baggage	72'	Steel – Heavyweight	-	185 – 186
Service	Dinning Car	80'	Steel – Heavyweight	'C'	200 – 204
Service	Buffet / Parlour	80'	Steel – Heavyweight	'O'	-
Service	Buffet / Parlour	80'	Steel – Lightweight	'Valley'	250 – 254
Passenger	Coach	80'	Wood	-	290 – 292
Passenger	Coach	80'	Steel – Heavyweight	-	315 – 317
Passenger	Coach	80'	Steel – Lightweight	-	320 – 324
Passenger	Sleeper (14)	80'	Steel – Heavyweight	'E'	30 – 34
Passenger	Sleeper (12/1)	80'	Steel – Heavyweight	'N'	80 – 85
Passenger	Sleeper (10/5)	80'	Steel – Lightweight	'Mount'	60 – 69
Passenger	Sleeper (4/8/4)	80'	Steel – Lightweight	'River'	40 – 49
Passenger	Sleeper (6/6/4)	80'	Steel – Lightweight	'Creek'	50 – 59
Passenger	Parlour/Obs	80'	Steel – Heavyweight	'Lake'	70 – 75
Passenger	Sleeper/Obs (3/2)	80'	Steel – Heavyweight	'Falls'	94 – 98
Passenger	Sleeper/Obs (3/1)	80'	Steel – Heavyweight	'Canyon'	90 – 93