

Technical Data



This LRV was originally supplied to upgrade the 100 year old Green Line. The No. 7 car is the staple of the fleet while entering its fourth decade of successful passenger service.

Formation:
6 - Axle Articulating

Track Gauge:
4ft – 8.5in / 1435mm

Electric System:
750 Vdc
Overhead Catenary
System



| Boston - MBTA: Green Line | |
|--------------------------------|------------------------------------|
| General | |
| Manufacturer | KINKISHARYO International |
| Quantity | 100/20 |
| Yr. Delivered (Last) | 1986/1997 |
| Body Type | 6-axle articulating |
| Empty Weight | 85000 lbs (38555 kg) |
| Seats | 50 passengers |
| Minimum Radius | 42 ft (13 m) |
| Voltage (VDC) | 600 |
| Maximum Speed (Balance) | 55 mph (88 kph) |
| Full Acceleration | 2.8 mphps (1.25 m/s ²) |
| Deceleration, Service | 3.5 mphps (1.56 m/s ²) |
| High/Low Platform | Low |
| ADA Accessibility | None |
| Maximum Cars to Train Line | 4 |
| Noise Level at 40 mph & 50 Ft | 75 dBA |
| Carbody | |
| Manufacturer | Kinki Sharyo Co. Ltd. |
| Material | LAHT |
| Buff Load (Lbs) | 144,000 |
| Length (Over Coupler Faces) | 74 ft (22555 mm) |
| Width | 8.67 ft (2642 mm) |
| Height | 11.83 ft (3606 mm) |
| Ceiling Height | 6.67 ft (2033 mm) |
| Floor Height (TOR) | High Floor 35 in (889 mm) |
| Floor Construction/Covering | Plymetal/Rubber Sheet on Top |
| Passed ASTM E119 | Yes |
| Articulation-Manufacturer | SIG |
| Seat Manufacturer | American Seating |
| Seat Type | Fiberglass with Vinyl Inserts |
| Window Type | Tinted Safety Glass |
| Couplers | |
| Manufacturer | Ohio Brass |
| Location of Electric Heads | Side |
| Isolation Method | Drum Switch |
| Coupler Height (TOR to CL) | 16 in (406 mm) |
| Electrical Equipment | |
| LVPS Manufacturer | SAB Nife |
| LVPS Output (kW) | 5.3 |
| APS Manufacturer | MA Set |
| APS Output (KVA) | 55 |
| Battery Manufacturer | Nife |
| Battery Capacity (A.h.) | 160 |
| Lighting | |
| Manufacturer | Luminator |
| Ballast Type | AC |
| Fixtures Contain Air Diffusers | Yes |
| Railroad Headlight | Yes |

| Destination Signs | |
|--|------------------------------|
| Manufacturer | Luminator* |
| Type | LCD |
| Number per Car | 6 |
| Location | Front/Side |
| Propulsion | |
| Manufacturer | Westinghouse |
| Motors/Powered Truck | 2 |
| Method of Cooling for Motors | Forced Air |
| Control Type | Chopper |
| Control Package/Car | 2 |
| Control State-of-the-Art | Microprocessor |
| Method of Cooling for Control | Forced Air |
| Pantograph Manufacturer | Stemmann |
| Motor Rating (kW) | 100 |
| Type Gearing | Double reduction parallel |
| Gear Ratio | 7.13 |
| Friction Brakes | |
| Manufacturer | WABCO |
| Type | Air-applied |
| Separate Control | Yes |
| Track Brake Manufacturer | MTS Socimi |
| Number of Axles With Brakes | 6 |
| Doors | |
| Type | Outward Bifold |
| Number per Side | 3 |
| Manufacturer (Controls) | Vapor |
| Controls (Location/Type) | Overhead/Air |
| Sensitive Edge | Yes |
| Trucks and Suspension | |
| Manufacturer | Kinki Sharyo Co. Ltd. |
| Primary Suspension | Chevron |
| Secondary Suspension | Air |
| Load Leveling | Yes |
| Wheel Base | 63 in (1600 mm) |
| Wheel Manufacturer | SAB |
| Wheel Type | Resilient |
| Wheel Size | 26 in (660 mm) |
| Truck Centers | 23 ft (7010 mm) |
| Frame Location | Inside |
| Wheel Profile | 1:20 |
| HVAC | |
| Manufacturer | Stone Safety |
| Heating Configuration | Overhead & Floor Heat |
| Heating Capacity (kW) | 25 |
| Cooling Configuration | Roof Mount Two Units per Car |
| Cooling Capacity (Tons) | 15 |
| Communications | |
| Manufacturer: Telephonics • Systems include PA System—Inside, Intercom | |

