



Inspector(s): _____ Inspection Location: _____ Date: _____ Region: _____

Builder: _____ Car Initials & Number: _____ Car Type: _____ Cars to be Built: _____ Builder Job #: _____

Item	Number - Dimensions - Location - Manner of Application <small>(All brackets used solely to support safety appliances are mechanically fastened per MP&E TB 98-14)</small>	CFR Reference*	Notes
Hand Brake	<input type="checkbox"/> Each passenger-train car shall be equipped with an efficient hand brake, which shall operate in harmony with the power brake thereon. <input type="checkbox"/> Each hand brake shall be so located that it can be safely operated while car is in motion. Except for a private cars, all passenger equipment, including MU locomotives, shall be equipped with a hand brake that meets the requirements for hand brakes contained in Part 231 of this chapter and that can: <input type="checkbox"/> Be applied or activated by hand. <input type="checkbox"/> Be released by hand. <input type="checkbox"/> Hold the loaded unit on the maximum grade anticipated by the operating railroad.	231.14(a)(1) 231.14(a)(2) 238.231(h)(2) 238.231(h)(2)(i) 238.231(h)(2)(ii) 238.231(h)(2)(iii)	
Sill Step	<input type="checkbox"/> Four. <input type="checkbox"/> Minimum length of tread, 10 inches. <input type="checkbox"/> Minimum cross-sectional area, ½ x 1½ inches ¹ or equivalent ² , wrought iron or steel. <input type="checkbox"/> Minimum clear depth, 8 inches ³ . <input type="checkbox"/> One near each end on each side not more than 24 inches from corner of car to center of tread of sill step. <input type="checkbox"/> Outside edge of tread of step shall be not more than two inches inside of face of side of car. <input type="checkbox"/> Tread shall be not more than 24, inches above the top of rail. <input type="checkbox"/> Steps exceeding 18 inches in depth shall have an additional tread and be laterally braced. <input type="checkbox"/> Sill steps shall be securely fastened with not less than ½ inch bolts with nuts outside (when possible) and riveted over, or with not less than ½ inch rivets.	231.14(b)(1) 231.14(b)(2) 231.14(b)(3)(i) 231.14(b)(3)(ii) 231.14(b)(3)(iii) 231.14(b)(4)(i) 231.14(b)(4)(ii)	
Side Handholds	<input type="checkbox"/> Four. <input type="checkbox"/> Minimum diameter, ⅝ of an inch, wrought iron or steel ¹ . <input type="checkbox"/> Minimum clear length, 16 inches. <input type="checkbox"/> Minimum clearance, two inches. <input type="checkbox"/> Horizontal or vertical, one near each end on each side of car over sill step. <input type="checkbox"/> If horizontal, not less than 24 nor more than 30 inches above center line of coupler. <input type="checkbox"/> If vertical, lower end not less than 18 nor more than 24 inches above center line of coupler. <input type="checkbox"/> Side handholds shall be securely fastened with bolts, rivets or screws.	231.14(c)(1) 231.14(c)(2) 231.14(c)(3) 231.14(c)(3)(i) 231.14(c)(3)(ii) 231.14(c)(4)	

Item	Number - Dimensions - Location - Manner of Application (All brackets used solely to support safety appliances are mechanically fastened per MP&E TB 98-14)	CFR Reference*	Notes
End Handholds	<input type="checkbox"/> Four. <input type="checkbox"/> Minimum diameter, $\frac{5}{8}$ of an inch, wrought iron or steel ¹ . <input type="checkbox"/> Minimum clear length, 16 inches. <input type="checkbox"/> Minimum clearance, two inches. <input type="checkbox"/> Horizontal, one near each side on each end projecting downward from face of end sill or sheathing. <input type="checkbox"/> Clearance of outer end of handholds shall be not more than 16 inches from side of car. <input type="checkbox"/> Handholds shall be flush with or project not more than 1 inch beyond face of end sill. <input type="checkbox"/> End handholds shall be securely fastened with bolts or rivets. <input type="checkbox"/> When marker sockets or brackets are located so that they can not be conveniently reached from platforms, suitable steps and handholds shall be provided for men to reach such sockets or brackets.	231.14(d)(1) 231.14(d)(2) 231.14(d)(3) 231.14(d)(4)(i) 231.14(d)(4)(ii) 231.14(d)(4)(iii)	
End Handrails	On cars with projecting end sills: <input type="checkbox"/> Four. <input type="checkbox"/> Minimum diameter, $\frac{5}{8}$ of an inch, wrought iron or steel ¹ . <input type="checkbox"/> Minimum clearance, two inches. <input type="checkbox"/> One on each side of each end, extending horizontally from doorpost or vestibule frame to a point not more than six inches from corner of car, then approximately vertical to a point not more than six inches from top of platform end sill, horizontal portion shall be not less than 30 nor more than 60 inches above platform end sill. <input type="checkbox"/> End handrails shall be securely fastened with bolts, rivets or screws.	231.14(e) 231.14(e)(1) 231.14(e)(2) 231.14(e)(3) 231.14(e)(4)	
Side-door Steps	<input type="checkbox"/> One under each door. <input type="checkbox"/> Minimum length of tread, 10 inches. <input type="checkbox"/> Minimum cross-sectional area, $\frac{1}{2}$ x $1\frac{1}{2}$ inches or equivalent, wrought iron or steel. <input type="checkbox"/> Minimum clear depth, 8 inches ² . <input type="checkbox"/> Outside edge of tread of step not more than two inches inside of face of side of car. <input type="checkbox"/> Tread not more than 24 inches above the top of rail. <input type="checkbox"/> Steps exceeding 18 inches in depth shall have an additional tread and be laterally braced. <input type="checkbox"/> Side-door steps shall be securely fastened with not less than $\frac{1}{2}$ inch bolts with nuts outside (when possible) and riveted over, or with not less than $\frac{1}{2}$ inch rivets. <input type="checkbox"/> A vertical handhold not less than 24 inches in clear length shall be applied above each side-door step on door post.	231.14(f)(1) 231.14(f)(2) 231.14(f)(3) 231.14(f)(4)(i) 231.14(f)(4)(ii) 231.14(f)(4)(iii)	

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Uncoupling Levers	<input type="checkbox"/> Uncoupling attachments shall be applied so they can be operated by a person standing on the ground. <input type="checkbox"/> Minimum length of ground uncoupling attachment, 42 inches, measured from center line of end of car to handle of attachment. <input type="checkbox"/> On passenger-train cars used in freight or mixed-train service, the uncoupling attachment shall be so applied that the coupler can be operated from left side of car.	231.14(g)(1) 231.14(g)(2) 231.14(g)(3)	
Other	<input type="checkbox"/> Ensure all brake components are located so that an inspection can be safely conducted without an inspector placing himself in a precarious or unsafe position, (TB MP&E 98-32). <input type="checkbox"/> Check for any sharp or protruding objects or areas on the equipment that may create a safety concern or personal injury. <input type="checkbox"/> Check for potential pinch points at all safety appliance arrangements. <input type="checkbox"/> Check to ensure that all brackets used solely to support a safety appliance are mechanically fastened. The use of weld on brackets is prohibited. <input type="checkbox"/> Check to ensure compliance with all applicable federal regulations . <input type="checkbox"/> Verify coupler height 31½ inch minimum, 34½ inch maximum ~ allow up to, but no more than one inch over the maximum height for settling of new truck components.	231.31(a)(1)	
Digital Photos	<input type="checkbox"/> General Arrangement Photo Sheet ~ No Deviations Noted (six photos minimum, A & B ends, each corner at 45 degree angle) <input type="checkbox"/> Deviation Photo Sheet ~ Deviations Noted: As many photos as necessary to fully depict, document and illustrate CFR deviations (e.g. 221, 223, 229, 238 & 239)		

* The CFR reference sections noted throughout the check list refers to the *actual* regulatory requirement.

Footnotes:

- 1 TB MP&E 98-18 Ladder treads, handholds of circular cross-section, 13/16 inch diameter and sill steps, 5/8 inch thick and 2 inches wide, when constructed of 6061-T6 aluminum alloy exceeds the current Federal Railroad Administration's requirements.
- 2 Equivalent is determined by multiplying the cross sectional area the result of which may not be less than 3/4 inch.
- 3 TB MP&E 98-13 Clear depth means a vertical space the width of, and above the sill/side step material or strap and should be clear and unobstructed for 8 inches.

Public reporting burden for this information collection is estimated to average 30 minutes per response. This estimate includes the time for reviewing each page of the checklist. According to the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is 2130-XXXX