Association of American Railroads

SAFETY AND OPERATIONS

MANUAL OF STANDARDS AND RECOMMENDED PRACTICES SECTION A-I

TABLES OF CONTENT

Compiled under the direction of the Committees responsible for the subjects shown herein.

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Section T-III - Interchange Standards for Fuel Tender Components	locomotive@aar.org
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TO THE USER

The *Manual of Standards and Recommended Practices* of the Safety and Operations Department, Association of American Railroads, is issued by authority of the Management Committee and includes all regularly adopted specifications, standards, and recommended practices of the Association of American Railroads.

Section A, Part I contains a comprehensive index of the entire AAR *Manual of Standards and Recommended Practices*, Sections A through S. This index is arranged in three sections:

- A numerical list of all "M" specifications, "RP" recommended practices, and "S" standards.
- An alphabetical list by subject.
- A list organized by the MSRP section.

Each list shows the standard, recommended practice, or specification number, the subject, and the section of the *Manual of Standards and Recommended Practices* in which that document is located. In addition, all Circular Letters that affect a document since its most recent publication are also identified.

In addition, this manual provides for historical reference a list of documents that have been archived or renumbered.

Note: Each individual section of the *Manual of Standards and Recommended Practices* also includes a table of contents for that particular section.

HOW TO USE THIS INDEX

This index of the *Manual of Standards and Recommended Practices* contains a list of every document contained in the individual sections (AS through S). You can search this index in one of three ways:

1. Locate a document by its number using the Numeric Index on page A-I-1.

2. Locate a document by its title using the Alphabetic Index on page A-I–31.

3. Locate a document by searching a particular section in the Section Index on page A-I–61.

The right-hand column of each index contains the words "Update Available" if a document is affected by a Circular Letter that was issued subsequent to the release of the manual containing the document. You may click the link (if viewing the PDF) or go to the section entitled "Current Circular Letters" to view a list of Circular Letters issued for each affected document.

DISCLAIMER

The "Current Circular Letters" section lists the Circular Letters that have been issued subsequent to the release of the MSRP specifications, standards, and recommended practices shown in MSRP-A1. This list is intended to improve accessability to the users. It is the responsibility of the user to ensure that individual MSRP sections reflect interim revisions implemented via Circular Letter. This list of Circular Letters is current as of the date printed in the margin. Any changes issued via AAR Circular Letter after that date will not be included.

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S-741	Information on Amtrak Passenger Car Bearings	2024	H-II	
S-742	Car Repair Track Information Specific to Roller Bearings	2024	H-II	
S-810	Field Impact and Over-the-Road Tests of Multi- Level Tie-down Equipment and/or Methods	2023	Ν	
S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	2023	Ν	
S-910	Marking of Freight Cars	2023	С	Update Available
S-9103	Precision Navigation Module Interface Control Document (ICD)	2021	K-II	Update Available
S-916	Retroreflective Comparator Panel Requirements	2018	С	
S-920	AAR Component Identification (CID) Bar Code Standard	2023	\mathbf{F}	Update Available
S-2008	Card Holder—Bad Order	2013	С	
S-2009	Push Rod, Brake Cylinder	1964	\mathbf{E}	
S-2025	Hopper Car—End for Door Operating Shaft	1914	\mathbf{C}	
S-2034	Car Builder Certification	2019	\mathbf{C}	
S-2035	Side Handhold, Additional—Hopper and High-Side Gondola Cars	2017	С	
S-2036	Temperature—for Car Structures and Components	1983	С	
S-2037	Trough Hatch Cover	2015	С	
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	С	
S-2039	Batten Bars	2014	С	
S-2042	Performance Specification for Sill Steps	2017	\mathbf{C}	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2024	С	Update Available
S-2044	Safety Appliance Requirements for Freight Cars	2020	С	
S-2045	Remote Monitoring Equipment, Installation	2022	С	Update Available

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<u>S-2046</u>	Accelerated Fatigue Test Specification for Increased	2006	C	Circulais
5-2040	Life Status Applications	2000	U	
S-2049	Anti-Pilferage Device—Boxcar Sliding Door	2007	С	
S-2050	Anti-Pilferage Device—Boxcar Plug Door	2007	С	
S-2053	Container Interface—Well Car, 53 ft	2009	С	
S-2054	Clearance Diagram—Interface Between a Well Car and a Container Equipped with a Refrigerator/ Heater Unit	2016	С	
S-2055	Body Center Plate, Low Profile	2014	С	
S-2056	Clearance Plate Diagrams for Interchange Service	2024	С	Update Available
S-3001	Approval of AAR-Approved Brake Beam Safety Supports	1984	Ε	
S-3005	Universal Brake Beam Gauge	1985	\mathbf{E}	
S-3006	Spring—"D" Series, Recertified	2024	D	
S-3007	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
S-3008	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
S-3009	Specification for Self-Locking Cotter Keys	1992	E	
S-3010	Side Frame, Standard Pedestal-Type with Side Frame Key—Limiting Dimensions	1947	S-II	
S-3011	Side Frame, Standard Pedestal-Type Size 6 in. × 11 in. with Side Frame Key—Limiting Dimensions	1997	S-II	
S-3012	Side Frame, Alternate Standard Pedestal-Type with Side Frame Key—Application of Roller Bearing Unit	1994	S-II	
S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	
S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
S-3015	Freight Car Truck Springs—without Load-Carrying Snubber	2024	D	
S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2024	D	
S-4000	Brake Pipe Reduction Devices, Freight Auxiliary— Environmental Tests	1984	Ε	
S-4001	Rubber Products—Performance	2018	Ε	
S-4002	Empty/Load Devices—Performance Testing	2005	\mathbf{E}	
S-4003	Train Line Arrangement for Cars with F-Shank Couplers	2005	Ε	

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S-4004	Brake Cylinder—Performance Testing	2002	E	<u></u>
S-4005	Brake Systems, Truck-Mounted—Performance Testing	2002	Ε	
S-4006	Hose Supports—Performance Testing	2008	\mathbf{E}	
S-4007	Reservoir, Combined Auxiliary and Emergency— Reclamation Procedure	2002	Ε	
S-4008	Slack Adjuster, Mechanical, Double-Acting, Automatic Compression	2017	Ε	
S-4009	Compression Slack Adjusters and Piston Travel Adjustment—Inspection, Testing, Removal, and Application	2009	Е	
S-4010	Slack Adjuster, Tension—Inspection, Testing, Removal, and Application	2018	Ε	
S-4013	Train Line Hoses—Coupling Extension Adapter	2002	\mathbf{E}	
S-4020	Brake Cylinder Pressure Measurement Taps	2005	\mathbf{E}	
S-4021	Angle Cock and Brake Hose Location on Cars with EOCC	2009	Ε	
S-4022	Pipe, Other than Schedule 80 Iron (RETIRED 04/16/2020)	2006	Ε	Update Available
S-4023	Brake Shoe Limiting Contour, Low-Friction Composition Type	2009	Ε	
S-4024	Brake Shoe Force Measurement Devices— Performance Specification	2002	Ε	
S-4025	Brake Beam Wear Liners, Non-Metallic	2004	\mathbf{E}	
S-4026	Brake Rod Connector—Design Requirements	2003	\mathbf{E}	
S-4027	Automated Single-Car Test Equipment, Conventional Brake Equipment—Design and Performance Requirements	2018	Ε	
S-4028	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Not Exceeding 45 in. in Length	2008	Ε	
S-4029	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Exceeding 45 in. in Length	2008	Е	
S-4030	Trolley Arrangement on Cars with EOCC and E Shank Couplers	2008	Ε	
S-4031	Trainline Arrangement for Cars with E-Type Couplers and with Draft System Buff Travel of 6 to 10 Inches	2024	Е	
S-4032	Trainline Arrangement for Cars with E/F-Type Couplers and Draft System Buff Travel of 6 to 10 Inches	2024	E	

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S-4046	Date Markings for Rubberized Components	2016	\mathbf{E}	
S-4047	Positive Train Control—Locomotive Air Brake Interface Requirements	2017	Ε	
S-4200	Electronically Controlled Pneumatic (ECP) Cable- Based Brake Systems—Performance Requirements	2014	E-II	
S-4210	ECP Cable-Based Brake System Cable, Connectors, and Junction Boxes—Performance Specification	2014	E-II	
S-4220	ECP Cable-Based Brake DC Power Supply— Performance Specification	2002	E-II	
S-4230	Intratrain Communication Specification for Cable- Based Freight Train Control Systems	2014	E-II	
S-4240	ECP Brake Equipment—Approval Procedure	2007	E-II	
S-4250	Performance Requirements for ITC-Controlled Cable-Based Distributed Power Systems	2014	E-II	
S-4260	ECP Brake and Wire Distributed Power Interoperability Test Procedures	2008	E-II	
S-4270	ECP BRake System Configuration Management	2008	E-II	
S-4286	Single-Car Test for Testing Electronically Controlled Pneumatic Braking Systems—Design and Performance Requirements	2009	E-II	
S-5018	Dynamic Braking Control	2020	Μ	
S-5019	Locomotive Definitions	2019	Μ	
S-5020	Color Code for Identifying Fluids on Locomotive	2015	Μ	
S-5021	Wheel Size and Speed Pickup Axle Identification	2016	Μ	
S-5022	Ultra-Low Sulfur Diesel (ULSD) Identification Label/Decal	2015	Μ	
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2023	T-III	
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2023	T-III	
S-5027	21-Point Control Plug, Cable Assembly, and Receptacle (TC-21 Tender Control Cable)	2023	T-III	
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2023	T-III	
S-5029	Safety Appliance Requirements for Intermodal Car- style Fuel Tenders	2023	T-III	
S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2023	T-III	
S-5031	Tender-fill Control Cable FC-18	2023	T-III	
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S-5101	Locomotive Cab Window Glazing Material	2002	M	
S-5500	Locomotive Interchange Agreement	2007	M	
S-5502	Automatic Engine Start/Stop System	2011	M	
S-5506	Performance Requirements for Diesel Electric Locomotive Fuel Tanks	2001	Μ	
S-5507	Remote Control Locomotives	2002	Μ	
S-5509	Locomotive Dynamic Brake Status Reporting	2018	\mathbf{M}	
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	Μ	<u>Update Available</u>
S-5513	Locomotive Alerter Requirements	2021	\mathbf{M}	Update Available
S-5514	Locomotive Operator Control Symbols	2011	\mathbf{M}	
S-5515	LED Lighting for Locomotives	2017	\mathbf{M}	
S-5516	LED Headlights and Auxiliary Lighting for Locomotives	2020	М	
S-5520	Locomotive Cab Securement	2014	\mathbf{M}	
S-5529	Multiple Unit Pneumatic Brake Equipment for Locomotives	2008	Μ	
S-5530	Locomotive Headlight Control	2018	\mathbf{M}	
S-5531	Remote Monitoring Equipment, Locomotive— Installation	2019	Μ	
S-5597	Air Flow Indicators	2007	Μ	
S-5598	Calibration Procedure for AFM Type Air Flow Indicators	2007	Μ	
S-6000	Acoustic Roller Bearing Detector Level-1 Indications	2021	\mathbf{F}	<u>Update Available</u>
S-6001	Bearing Temperature Performance	2023	\mathbf{F}	<u>Update Available</u>
S-6002	Data Summary Definitions	2021	\mathbf{F}	<u>Update Available</u>
S-6003	Data Summary—Truck Hunting	2021	\mathbf{F}	<u>Update Available</u>
S-6004	Data Summary—TADS®	2021	\mathbf{F}	<u>Update Available</u>
S-6005	Data Summary—RailBAM®	2021	\mathbf{F}	<u>Update Available</u>
S-6006	Data Summary—Brake Health Truck	2021	\mathbf{F}	Update Available
S-6007	Data Summary—Brake Health Car	2015	\mathbf{F}	
S-6008	Data Summary—Salient Wheel Impact	2022	\mathbf{F}	<u>Update Available</u>
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2021	F	<u>Update Available</u>
S-6010	Data Summary—Wheel Profile Detector (WPD)	2019	\mathbf{F}	
S-6020	Data Summary Definition—Line-of-Road Failure	2019	\mathbf{F}	
S-6021	Data Summary Definition—Line-of-Road Failure— Air Hose Separation	2021	F	Update Available

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S-6022	Data Summary Definition—Line-of-Road Failure—	2016	F	
S-6023	Train Separation Data Summary Definition—Line-of-Road Failure—	2016	F	
S-6030	Brake System/Other Wheel Performance—Dynamic Impact and Rim Thickness	2016	F	
S-6031	Inoperative Brake Indications as Determined by Wayside Detector	2016	F	
S-6100	Wayside Detector Data Processing	2016	\mathbf{F}	
S-6101	Detector Calibration and Validation Requirements	2024	F	Update Available
S-6102	Wayside Passing Data Format	2021	\mathbf{F}	Update Available
S-6103	Wheel Profile Detector	2022	\mathbf{F}	Update Available
S-6200	Machine Vision Detector	2021	\mathbf{F}	Update Available
S-9001	ITC System Reference Architecture	2012	K-I	
S-9002	Railroad Electronics Standards Configuration Management	2009	K-I	
S- 9008.V1.0	PTC Security Architecture 2 (PSA 2)	2024	K-I	
S-9010	Data Protection	2019	K-I	Update Available
S-9053	Positive Train Control ITC System Requirements– Level 0	2018	K-I	Update Available
S-9054	Positive Train Control ITC System Requirements– Level 1	2018	K-I	Update Available
S-9055	Positive Train Control ITC Communications Segment Requirements—Level 1	2013	K-I	
S-9056	Positive Train Control ITC Wayside System Requirements—Level 1	2012	K-I	
S-9057	Positive Train Control ITC Systems Management Requirements—Level 1	2012	K-I	
S-9058	Interoperable Train Control Ticket Management (ITCTM) Requirements and Use Cases	2021	K-I	Update Available
S-9070	I-ETMS Human Machine Interface Standard	2012	K-I	
S-9074	Federated Network Requirements	2020	K-I	Update Available
S-9075	ISMP Design Considerations	2022	K-I	Update Available
S-9076	ITC Systems Management Interoperable Gateway Requirements	2021	K-I	Update Available
S-9080.V	3 Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available
S-9080.V4	4 Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available

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	Policy		
S-9081.V1.	1 Positive Train Control (PTC) – Interoperable Train Control (ITC) – Electronic Data Interchange (EDI) Rules Governing the Use of EDI 161, EDI 824 & EDI 418J	2021	K-I <u>Update Available</u>
S-9081.V1.	2Positive Train Control (PTC) – Interoperable Train Control (ITC) – Electronic Data Interchange (EDI) Rules Governing the Use of EDI 161, EDI 824 & EDI 418J	2021	K-I <u>Update Available</u>
S-9101. V1.2	Locomotive Electronics System Architecture	2019	K-II <u>Update Available</u>
S-9101. V1.2.1	Locomotive Electronics System Architecture	2022	K-II <u>Update Available</u>
S-9101B V1.0	Locomotive Data Acquisition and Recording System Architecture	2011	K-II
S-9101C V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II <u>Update Available</u>
S-9101E V1.1	Locomotive System Integration Communications	2016	K-II <u>Update Available</u>
S-9101F V1.2	Appendix F-Version 1.2 Locomotive Interface Gateway (LIG) Segment and Locomotive Application (LAPP) Segment Subsystems Addresses	2022	K-II <u>Update Available</u>
S-9101G V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II <u>Update Available</u>
S-9102 V1.0	Locomotive Electronics and Train Control System Architecture	2022	K-II <u>Update Available</u>
S-9152	End-of-Train Communications	2016	K-II <u>Update Available</u>
S-9153	Common Air Interface (CAI-12) Communications FOR Remote Control Locomotive Systems (RCL) Operating AT 220 Mhz	2012	K-II
S-9202	Interoperable Train Control Wayside Interface Unit Requirements	2012	K-III
S-9202A	Integrated Wayside Messaging Server Hardware Requirements	2011	K-III
S-9202B	Stand-alone Wayside Messaging Server Hardware Requirements	2012	K-III
S-9203	Automatic Equipment Identification	2010	K-III
S-9203. V1.1	Automatic Equipment Identification	2020	K-III <u>Update Available</u>
S-9203A	AEI Site-to-Host Consist Report Format	2009	K-III
S-9203A. V1.1	AEI Site-to-Host Consist Report Format	2020	K-III <u>Update Available</u>
S-9203B	AEI Site-to-Host Wayside Report Format	2010	K-III

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S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	<u>Update Available</u>
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S-9555	Railroad Use of IEEE 802.11	2015	K-VI	Update Available

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S-9557	Interoperable Train Control (ITC) Radio Identification Format	2015	K-VI	Update Available
S-9558.V1.0	OInteroperable IP Network Address Allocations	2021	K-VI	Update Available

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S-920	AAR Component Identification (CID) Bar Code Standard	2023	F	Update Available
S-2046	Accelerated Fatigue Test Specification for Increased Life Status Applications	2006	С	
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RP-9203	AEI Reader Equipment Requirements	2010	K-III	
S-704	Adapter for Use with AAR Standard Pedestal-Type Side	1968	Η	
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RP-508	Air Brake Exhaust Piping	2001	\mathbf{M}	
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S-427	Angle Cock and Air Brake Hose Location on Cars with Excessive Overhang Preventing Compliance with AAR Standards S-424, S-425, and S-426	2005	Ε	
S-4021	Angle Cock and Brake Hose Location on Cars with EOCC	2009	Е	
S-424	Angle Cock Location	2018	\mathbf{E}	
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M-926 Brake Shoe, High-Friction Composition or Metal 2015 E Type	
S-431 Brake Shoe, High-Friction Composition Type— 2017 E Limiting Contour	
M-996 Brake Shoe, Low-Friction Composition Type 2015 E	
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RP-509	Braking Ratios for Locomotives	2024	Μ	Update Available
S-100	Bushings, Seamless Steel Tube—Coupler Shanks and Yokes	2010	В	
S-5598	Calibration Procedure for AFM Type Air Flow Indicators	2007	Μ	
S-703	Cap Screws for Journal Roller Bearing Assemblies	2021	Н	
S-2034	Car Builder Certification	2019	С	
RP-899	Car Owner's Manual for the Inspection and Maintenance of Double-Stack Container Cars	2018	Ι	
S-742	Car Repair Track Information Specific to Roller Bearings	2024	H-II	
S-2008	Card Holder—Bad Order	2013	\mathbf{C}	
M-220	Casting Component Nondestructive Testing Requirements	2022	S	<u>Update Available</u>
M-201	Castings, Steel	2024	\mathbf{S}	<u>Update Available</u>
S-307	Center Bowl Horizontal Wear Liner	2017	D	
M-979	Center Bowl Liner—Requirements for Approval	2024	D	
S-265	Center Pin—Freight Car	1989	\mathbf{C}	
S-267	Center Sill Section—Welding Notes	1979	\mathbf{C}	
S-266	Center Sill Section, Rolled Steel	2012	\mathbf{C}	
S-9375	Centralized Traffic Control (CTC) over Interoperable Train Control Management (ITCM)—Interface Control Document	2018	K-IV	<u>Update Available</u>
S-612	Circumference Measure (Tape) for 27 in. to 38 in. Steel Wheels	2004	G	
S-613	Circumference Measure (Tape) for 38 in. to 52 in. Steel Wheels	2004	G	
S-9355 V1.0	Class C Messaging	2010	K-IV	
S-9355 V2.0	Class C Messaging	2022	K-IV	<u>Update Available</u>
S-9356	Class D Messaging	2018	K-IV	Update Available
S-2054	Clearance Diagram—Interface Between a Well Car and a Container Equipped with a Refrigerator/ Heater Unit	2016	С	
S-2056	Clearance Plate Diagrams for Interchange Service	2024	С	<u>Update Available</u>
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RP-512	Color Code for Identifying Fluids on Locomotive	2001	\mathbf{M}	
S-5020	Color Code for Identifying Fluids on Locomotive	2015	\mathbf{M}	
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S-627	Combined Wheel Gauge	1998	G	
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S-9153	Common Air Interface (CAI-12) Communications FOR Remote Control Locomotive Systems (RCL) Operating AT 220 Mhz	2012	K-II	
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S-4009	Compression Slack Adjusters and Piston Travel Adjustment—Inspection, Testing, Removal, and Application	2009	Ε	
M-970	Condition-Based Certification of Multi-Level Auto Rack Cars	2023	Ν	Update Available
S-051	Conditions Governing Withdrawal of AAR Approval of Freight Car and Locomotive Components and Products	2000	AS	
S-810	Field Impact and Over-the-Road Tests of Multi- Level Tie-down Equipment and/or Methods	2023	Ν	
S-2053	Container Interface—Well Car, 53 ft	2009	С	
M-930	Containers for Domestic Intermodal Service	2019	Ι	Update Available
S-468	Control Valve Pipe Bracket	2009	\mathbf{E}	
S-462	Control Valve—Approval Procedure	2019	\mathbf{E}	Update Available
S-477	Control Valve—Shop Certification Requirements for Approved Valves	2002	Ε	
S-467	Control Valve, Freight Brake-Environmental Tests	2002	\mathbf{E}	
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S-133	Coupler (Rotary), Type F70, Operating Rod, use with up to 6 1/2-in. Total Draft Gear Travel	2016	S-III	
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M-212A	Coupler Parts, Knuckles, Vertical Connection Pins, Follower Blocks, and Draft Keys—Secondhand Classification	2024	S	
M-212	Couplers and Yokes, Secondhand—Classification and Reconditioning Procedure	2023	S	Update Available
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RP-110	Cushioning Device Inspection	2003	В	
M-921E	Cushioning Devices, Active Draft End	2024	В	Update Available
M-921F	Cushioning Devices, Active Draft End of Car	2024	В	<u>Update Available</u>
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M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle- Carrying	2024	В	<u>Update Available</u>
M-921H	Cushioning Devices, End-of-Car, General Requirements	2024	В	Update Available
M-921C	Cushioning Devices, Reconditioned—Approved for Freight Service	2024	В	<u>Update Available</u>
M-921A	Cushioning Devices, Sliding Sill	2018	В	
S-181	Cushioning Pocket Identification Guide—AAR Rule 59	2003	В	
S-9010	Data Protection	2019	K-I	Update Available
S-6020	Data Summary Definition—Line-of-Road Failure	2019	\mathbf{F}	
S-6021	Data Summary Definition—Line-of-Road Failure— Air Hose Separation	2016	F	
S-6023	Data Summary Definition—Line-of-Road Failure— Brake System/Other	2016	F	
S-6022	Data Summary Definition—Line-of-Road Failure— Train Separation	2016	F	
S-6002	Data Summary Definitions	2021	\mathbf{F}	<u>Update Available</u>
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S-6006	Data Summary—Brake Health Truck	2021	\mathbf{F}	<u>Update Available</u>
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S-6008	Data Summary—Salient Wheel Impact	2022	\mathbf{F}	<u>Update Available</u>
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S-6003	Data Summary—Truck Hunting	2021	\mathbf{F}	Update Available
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S-4046	Date Markings for Rubberized Components	2016	\mathbf{E}	
RP-206	Decking, Wood—for Open Top Cars	1981	С	
S-046	Definitions of Terms for the AAR Manual of Standards and Recommended Practices	2015	AS	Update Available
RP-308	Design Dimensions for Brake Hanger Bracket	1937	\mathbf{E}	
M-1001	Design, Fabrication, and Construction of Freight Cars	2023	C-II	

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RP-817 Destination	Inspections	2023	Ν	
S-6101 Detector Cal	ibration and Validation Requirements	2024	\mathbf{F}	<u>Update Available</u>
RP-5132 Diesel Locon Locomotives	notive Control Stand for New	2001	Μ	
S-493 Dirt Collecto	or and Cutout Cock—Test Specification	2002	\mathbf{E}	
S-489 Dirt Collecto Specification	or and Cutout Cock, Combined—Repair	1981	E	
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S-249 Door Puller Post	Bracket, Application to Intermediate	1978	С	
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	gement, F70 Coupler, 24 5/8-in. Pocket— ied by Welding	- 1978	С	
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M-901G Draft Gear, I	Rated by Impact Testing	2023	В	<u>Update Available</u>
M-901B Draft Gear, S	Secondhand and Reconditioned	2015	В	
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S-254 Draft Pocket	Tolerances	1974	\mathbf{C}	
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S-4210	ECP Cable-Based Brake System Cable, Connectors, and Junction Boxes—Performance Specification	2014	E-II	
S-9354	Edge Message Protocol	2018	K-IV	<u>Update Available</u>
S-9376	Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)	2016	K-IV	Update Available
M-967	Electrochemical Metal Deposition for Repairing Roller Bearing Axle Journals	2008	G	
RP-940	Electronic Distribution Format For Engineering Drawings	2005	С	
S-4200	Electronically Controlled Pneumatic (ECP) Cable- Based Brake Systems—Performance Requirements	2014	E-II	
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S-488	End Cock and Air Brake Hose Location on Long Cars	2002	\mathbf{E}	
S-472	End Cock Location on Cars Arranged for Rotary Dump Service	2002	Ε	
M-941	End Enclosure for Fully Enclosed Multi-Level Auto Rack Cars	2023	Ν	
S-440	End Hose Gaskets, Couplings, and Nipples—Annual Test Requirements	1999	Ε	
M-902	End-of-Car Energy Management Systems	2024	В	
S-9152	End-of-Train Communications	2016	K-II	<u>Update Available</u>
M-921G	Facility Inspection Requirements for Manufacturers of New and Reconditioned Cushioning Devices for Freight Service	2024	В	<u>Update Available</u>
S-9074	Federated Network Requirements	2020	K-I	<u>Update Available</u>
S-101	Field Service Experience—Reporting Requirements	2003	В	
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S-010	Field Test Requirements for Materials, Devices, and Products Manufactured to AAR Specifications but Having No Previous Service Experience on AAR Member Roads		AS	
RP-633	Figures	2022	G-II	
M-908	Flat Steel Floor for Freight Cars 50,000, 60,000, 70,000 or 80,000 lb Capacities	2006	С	
RP-5120	Flexible Hinge Guard on Locomotive Cab Door	2001	Μ	
M-964	Floor, Nailable Steel—Freight Cars 50,000-, 60,000-, 70,000- or 80,000-lb Capacities	2006	С	
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M-211	Foundry and Product Approval Requirements for the Manufacture of Couplers, Coupler Yokes, Knuckles, Follower Blocks, and Coupler Parts	2023	S	<u>Update Available</u>
S-286	Free/Unrestricted Interchange for 286,000 lb Gross Rail Load Cars	2022	С	<u>Update Available</u>
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S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
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M-980	Friction Wedge Performance for Railcars—Dynamic Wear Test	2024	D	
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S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2023	T-III	
M-602	Gaskets, Air Hose	2002	\mathbf{E}	
RP-613	Gauge, Axle—Master Gauge for Verifying Axle Journal and Fillet Gauge S-614	2004	G	
RP-637	Gauge, Wheel—Application Drawing for AAR 1B Wheel Gauges S-661 and S-665	1991	G	
RP-636	Gauge, Wheel—Application Drawing for AAR 1B Wheel Gauges S-662 and S-667	1991	G	
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RP-630	Gauge, Wheel—Application for Measuring Condemnable Overheated Wheels	2004	G	
RP-629	Gauge, Wheel—for Measuring Condemnable Overheated Wheels	2004	G	
S-618	Gauge, Wheel—Former Standard 1976	1976	G	
S-617	Gauge, Wheel—Former Standard 1980	1980	G	
RP-614	Gauge, Wheel—Master Gauge for Verifying Wheel Gauges S-617 and S-618	2004	G	
S-661	Gauge, Wheel—Maximum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Narrow-Flange Steel Wheel	1991	G	
S-665	Gauge, Wheel—Maximum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Wide- Flange Steel Wheels	1991	G	

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5-002	Height, and Throat Radii Gauge for AAR-1B Narrow-Flange Steel Wheel	1991	G	
S-667	Gauge, Wheel—Minimum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Wide- Flange Steel Wheels	1991	G	
S-663	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Narrow Flange Wheel Gauge S-661	1991	G	
S-664	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Narrow Flange Wheel Gauge S-662	1991	G	
S-666	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-665	1991	G	
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RP-608	Gauge, Wheel—Reference Master Disk for Verifying Wheel Circumference Gauges S-612 and S-613	2004	G	
RP-615	Gauge, Wheel—Simplified	2004	G	
S-360	Gauges for End of Hangerless-Type Brake Beam	1979	\mathbf{E}	
RP-634	Gauges—Wheel and Axle Shop	2022	G-II	
M-1001 Chapter 2	General Data	2023	C-II	Update Available
RP-632	General Requirements and Information	2022	G-II	
S-359	Go and No-Go Gauge for Brake Head for Limiting Contour of Face, Metal or High-Friction Shoe	1990	Ε	
S-358	Go Gauge for Brake Head, Metal or High-Friction Shoe	2009	Ε	
S-361	Go Gauges for Brake Shoe	1944	\mathbf{E}	
S-233	Gravity Outlet Gates, New—for Covered Hopper Cars	2014	С	
M-929	Grease for Lubrication of Trailer Hitches on Flatcars	2004	Ι	
S-475	Hand Brakes	2024	\mathbf{E}	Update Available
S-224	Handholds, Safety Railings, and Ladder Treads	2015	С	
RP-2018	Handholds, Steps, and Ladders for Interior Access	2023	С	Update Available
RP-812	Handling and Inspection of Multi-Level Cars and Equipment After Loading	2023	Ν	
RP-810	Handling and Inspection of Vehicles Before Loading	2023	Ν	
RP-818	Handling of Multi-Level Cars and Equipment Afier Unloading	2023	Ν	
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M-928A	Highway Trailer Hitches for Freight Cars with 90,000-lb Maximum Gross Vehicle Weight Capacity	2018	Ι	
RP-233	Hold-Down Clips—Gondolas, Side Sheet Mounted	1948	\mathbf{C}	
RP-234	Hold-Down Clips—Gondolas, Top Cord Mounted	1982	С	
RP-5599	Hook and Eye Brake Rigging—Lever Angularity Inspection	2007	Ε	
S-2025	Hopper Car—End for Door Operating Shaft	1914	С	
RP-258	Hopper Car—Grain Service	1992	С	
M-800	Hopper Car, Covered—For Transport of Oxidizing Commodities	2023	С	Update Available
M-801	Hopper Car, Covered—Pressurized During Unloading and In-Transit	2023	С	Update Available
RP-200	Hopper Car, Open Top, in Shaker Service—Design Features	1976	С	
S-458	Hose Assemblies—Reclamation Procedures	2002	\mathbf{E}	
M-923	Hose Cement	1983	\mathbf{E}	
S-439	Hose Clamps	2002	\mathbf{E}	
S-491	Hose Coupling	2005	\mathbf{E}	
S-455	Hose Coupling Condemning Gauges for Checking the Beads and Shanks on New and Used Hose Couplings and Nipples	2002	Ε	
S-447	Hose Coupling Gasket Gauge	2002	\mathbf{E}	
S-456	Hose Coupling Gauges for Gauging New and Used Couplings	2002	Ε	
S-457	Hose Coupling Tester, Air Brake, Type A-1-B— Modification to Permit Testing of Pinless-Type Couplings	2002	Ε	
S-436	Hose Coupling, Dummy	2002	\mathbf{E}	
M-927	Hose Fittings and Hose Assemblies, Air, Wire- Reinforced	2007	Ε	
S-432	Hose Support, S Hook	2002	\mathbf{E}	
S-4006	Hose Supports—Performance Testing	2008	\mathbf{E}	
M-620	Hose, Air, Fabric-Reinforced	2011	\mathbf{E}	
M-618	Hose, Air, Wire-Reinforced	2011	\mathbf{E}	
S-438	Hose, Armored Type—Mounting Procedure	1949	\mathbf{E}	
S-437	Hose, Other than Armored Type—Mounting Procedure	2002	Ε	
M-601	Hose, Wrapped, Air—Brake, "End Hose"	2006	Ε	

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S-9070	I-ETMS Human Machine Interface Standard	2012	K-I	
S-9364	I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD)	2017	K-IV	Update Available
S-9503. V3.0	ITC Track Data File Format	2022	K-VI	Update Available
S-217	Identification Plate—Boxcar Doors	2009	С	
S-158	Immobilization of Freightmaster	2003	В	
S-161	Immobilization of Freightmaster 10-in. Type E Miner M-12S	2003	В	
S-157	Immobilization of Freightmaster Types F, FS, and B	2003	В	
S-159	Immobilization of Freightmaster Types HD and AR-F	2003	В	
S-156	Immobilization of Freightmaster Types SP-E and SP-C	2003	В	
S-162	Immobilization of Keystone F Shank	2003	В	
S-160	Immobilization of Keystone Type E Miner SR-12	2003	В	
S-171	Immobilization of Pullman Standard, ACF, or Keystone Center-of-Car Cushioning Devices ("Dummy Cylinder Method")	2003	В	
S-125	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective ACF Freight Saver 20- or 30-in. Travel Units—Plate No. 526-1	2003	В	
S-127	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Cushion 10-, 12-, or 20-in. Travel Units or Evans Cushion Pak Wide Tunnel Units—Plate No. 526-3	2003	В	
S-128	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Pullman Standard Hydroframe 40 and 60 Units or National 3C Wide Tunnel Units—Plate No. 526-4	2003	В	
S-126	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Keystone 20-in. Travel Unit, Santa Fe Shock Control, A.O. Smith Cushion Ride, and Rockwell Cargo Cushion—Plate No. 526-2	2003	В	
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RP-609	Inspection Stand for Use with Master Disks	2004	G	
S-9202A	Integrated Wayside Messaging Server Hardware Requirements	2011	K-III	
M-934D	Interchangeable Backing Rings for Freight Car Tapered-Roller Journal Bearings	2007	Η	
M-934C	Interchangeable End Caps for Freight Car Tapered- Roller Journal Bearings	2018	Η	
S-739	Interchangeable Roller Bearing Requirements	2024	H-II	
M-934B	Interchangeable Seal Wear Rings for Freight Car Tapered-Roller Journal Bearings	2011	Η	
M-934A	Interchangeable Spacers for Freight Car Tapered- Roller Journal Bearings	2011	Η	
M-998	Intermodal Container Support and Interbox Connector (IBC) Securement Systems for Freight Cars	2022	Ι	Update Available
M-952	Intermodal Container Support and Securement System for Freight Cars	2008	Ι	
RP-852	Intermodal Equipment Cars	2003	Ι	
M-933	Intermodal Trailer and Container Securement	2018	Ι	
RP-2001	Interoperability Requirements—Movement of Passenger Equipment on Freight Railroads	2019	Μ	
RP-2002	Interoperability Requirements—Operation of Regularly Scheduled Revenue Passenger Service	2019	Μ	
S-9382.V2	I Interoperable Asset Access Service	2022	K-IV	Update Available
S-9359	Interoperable Certificate Revocation Responder Service	2019	K-IV	Update Available
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	Update Available
S-9370.V1.	0Interoperable Event and Status Service	2022	K-IV	Update Available
M-1004	Interoperable Fuel Tenders for Locomotives	2023	Т	
S-9558.V1.	0 Interoperable IP Network Address Allocations	2021	K-VI	Update Available
RP-9511	Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation	2019	K-VI	Update Available
S-9557	Interoperable Train Control (ITC) Radio Identification Format	2015	K-VI	Update Available
S-9363	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2012	K-IV	

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S-	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2024	K-IV	
S-9362	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2014	K-IV	
S-9362 V2.0	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2023	K-IV	
S-9378.V1.0)Interoperable Train Control Ticket Management (ITCTM) Interface Control Document (ICD)	2021	K-IV	Update Available
S-9058	Interoperable Train Control Ticket Management (ITCTM) Requirements and Use Cases	2021	K-I	<u>Update Available</u>
S-9202	Interoperable Train Control Wayside Interface Unit Requirements	2012	K-III	
M-9154B	Intra-Consist Communications (ICC) Layer 2	2015	K-II	<u>Update Available</u>
M-9154A	Intra-Consist Communications (ICC) Routing Functionality	2013	K-II	
S-4230	Intratrain Communication Specification for Cable- Based Freight Train Control Systems	2014	E-II	
S-9075	ISMP Design Considerations	2022	K-I	<u>Update Available</u>
S- 9420.V1.0	ITC Key Management Service	2024	K-V	
S-9454	ITC System Management (ITCSM) Back Office Requirements for Interoperable Train Control	2014	K-V	
S-9001	ITC System Reference Architecture	2012	K-I	
S-9076	ITC Systems Management Interoperable Gateway Requirements	2021	K-I	Update Available
S-9363	ITC Time and Location—Interface Control Document (ICD)	2012	K-IV	
S-	ITCSM Agent Requirements to Support PSA-2	2024	K-V	
9416.V1.0				
M-9453	ITCSM Asset User Interface Requirements for Interoperable Train Control	2014	K-V	
S-9452	ITCSM Common Data Dictionary for Interoperable Train Control	2018	K-V	<u>Update Available</u>
S- 9452.V3.1	ITCSM Common Data Dictionary for Interoperable Train Control	2024	K-V	Update Available
S-9451	ITCSM Common Systems Management Requirements	2014	K-V	
S-9460	ITCSM Interface Control Document for Interoperable Train	2018	K-V	Update Available
S-9451A.V	1ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	

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S-9451A.V	2ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2021	K-V	<u>Update Available</u>
S-9452A.V	1ITCSM WIU Asset-Specific Data Dictionary for Interoperable Train Control	2012	K-V	
S-9452A.V2	2 ITCSM WIU Asset-specific Data Dictionary for Interoperable Train Control	2021	K-V	<u>Update Available</u>
M-924	Journal Roller Bearing Adapters for Freight Cars	2018	Η	
M-942	Journal Roller Bearing Grease	2020	н	
M-216	Knuckles, Types E and F—Fatigue Test	2023	\mathbf{S}	<u>Update Available</u>
RP-232	Ladder, End and Side—Configuration	1981	\mathbf{C}	
S-230	Lading Strap Anchor Arrangement and Use—for Flatcars	1973	С	
RP-590	Lead-Acid Batteries and Compartments	2001	\mathbf{M}	
S-5515	LED Lighting for Locomotives	2017	\mathbf{M}	
S-5516	LED Headlights and Auxiliary Lighting for Locomotives	2020	Μ	
S-234	Lifting Freight Cars	1982	\mathbf{C}	
S-616	Limit Wear Gauge for Condemning Wheel Defect— Worn Journal Collar and Journal Fillet Gauge	2004	G	
S-629	Limit Wear Gauge for Condemning Wheel Defect— Worn Journal Collar and Journal Fillet Gauge	1998	G	
S-370	Limiting Contour of Face of Brake Heads for Hanger-Type Brake Beams	2009	Ε	
S-371	Limiting Contour of Face of Brake Heads for Hangerless-Type Brake Beams	2009	Ε	
RP-811	Loading of Vehicles	2023	Ν	
S-373	Peep Hole—Location for Checking Brake Cylinder Piston Travel on Cars with Deep Side Sills	2024	D	
S-701	Locking Plate for Journal Roller Bearing Assemblies	1997	н	
S-701A	Locking Plate for Journal Roller Bearing Assemblies	2012	Н	
S-5513	Locomotive Alerter Requirements	2021	\mathbf{M}	<u>Update Available</u>
S-5520	Locomotive Cab Securement	2014	\mathbf{M}	
S-5101	Locomotive Cab Window Glazing Material	2002	\mathbf{M}	
M-9155.V1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2014	K-II	
M-9155.V2	Locomotive Command and Control Module (LCCM)—Functional Requirements	2015	K-II	<u>Update Available</u>
M-9155. V2.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2015	K-II	Update Available

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M-9155. V2.2	Locomotive Command and Control Module (LCCM)—Functional Requirements	2016	K-II	<u>Update Available</u>
M-9155. V2.3	Locomotive Command and Control Module (LCCM)—Functional Requirements	2018	K-II	Update Available
M-9155. V2.4	Locomotive Command and Control Module (LCCM)—Functional Requirements	2019	K-II	<u>Update Available</u>
M-9155. V2.4.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	Update Available
M-9155. V2.5	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	Update Available
S-580	Locomotive Crashworthiness Requirements	2020	\mathbf{M}	
S-9101G V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II	<u>Update Available</u>
S-9101C V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	<u>Update Available</u>
S-9101B V1.0	Locomotive Data Acquisition and Recording System Architecture	2011	K-II	
S-5019	Locomotive Definitions	2019	\mathbf{M}	
RP-503	Locomotive Diesel Fuel Additives and Fuel Savings Devices—Evaluation Procedure	2016	М	
S-5509	Locomotive Dynamic Brake Status Reporting	2018	\mathbf{M}	
S-9102 V1.0	Locomotive Electronics and Train Control System Architecture	2022	K-II	Update Available
M-1005	Locomotive Electronics Safety Assessments and Analyses	2022	Μ	<u>Update Available</u>
S-9101 V1.2	Locomotive Electronics System Architecture	2019	K-II	Update Available
S-9101. V1.2.1	Locomotive Electronics System Architecture	2022	K-II	<u>Update Available</u>
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	Μ	Update Available
RP-5503	Locomotive Fueling Interface	2001	\mathbf{M}	
S-5530	Locomotive Headlight Control	2018	\mathbf{M}	
RP-5122	Locomotive Horn Valve Handle with Soft, Resilient- Type Rubber Cover	2001	Μ	
S-5500	Locomotive Interchange Agreement	2007	Μ	
S-9365	Locomotive Interface Gateway (LIG) to Positive Train Control (PTC) Interface Control Document (ICD)	2019	K-IV	<u>Update Available</u>
S-5514	Locomotive Operator Control Symbols	2011	Μ	
RP-548	Locomotive Rating Train/Track Resistance	2001	Μ	

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S-9101E	Locomotive System Integration Communications	2016	K-II	Update Available
V1.1				
S-591	Locomotive System Integration Operating Display	2020	\mathbf{M}	
M-959	Lubrication Seals for Freight Car Journal Roller Bearings	2019	Η	
M-1001 Chapter 3	M-1001 Chapter 3 - Materials-Body Structure	2022	C-II	<u>Update Available</u>
M-1001 Chapter 4	M-1001 Chapter 4 - Design	2022	C-II	<u>Update Available</u>
M-1001 Chapter 6	M-1001 Chapter 6 - General Design and Test 8 Requirements—Tank Cars	2022	C-II	Update Available
S-6200	Machine Vision Detector	2021	\mathbf{F}	Update Available
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	\mathbf{M}	
S-659	Mandatory Rules Governing Wheel Shop Practices as Required by Interchange Rules	2022	G-II	
S-910	Marking of Freight Cars	2023	С	<u>Update Available</u>
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	2023	Ν	
M-993	Mechanical Certification of Flatcars for Autorack Service	2023	Ν	
RP-906	Methodology: Multi-Car Drifting Simulations	2024	В	
S-736	Minimum Acceptance and Rejection Criteria	2024	H-II	
RP-546	Minimum Requirements for Main Reservoir System on New and Rebuilt Diesel-Electric, Electric, and Gas Turbine Locomotives of 800-hp Capacity and Greater	2001	М	
S-9553A	Mobile Communications Package	2002	K-VI	
RP-612	Mounting Pressures for Wrought and Cast Steel Wheels on Gear-Driven and Idler Axles of Locomotives Other than Steam	2004	G	
S-5529	Multiple Unit Pneumatic Brake Equipment for Locomotives	2008	Μ	
S-9357	Mutually Authenticated Key Exchange	2019	K-IV	<u>Update Available</u>
S-362	No-Go Gauge for Brake Shoe	1944	\mathbf{E}	
M-971	Non-Grease Lubricant for Autorack Equipment	2023	Ν	
M-912	Oil, Control Valve	2002	\mathbf{E}	
S-132	Operating Mechanism, Type No. 6, Interlocking	2003	S-III	
RP-5124	Padded Sun Visor in Locomotive Cab—Engineer's Side Only	2001	Μ	
S-4045	Passenger Equipment Maintenance Requirements (formerly S-045)	2013	Ε	

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<u>Standard</u> M-1006	Subject	<u>Revised</u> 2019	<u>Section</u> M	Circulars?
NI-1008 S-3008	Passenger Equipment Performance Specification Performance of Devices or Designs to Control Yaw	2019 1997	D	
	Dynamics in Freight Car Trucks			
S-5506	Performance Requirements for Diesel Electric Locomotive Fuel Tanks	2001	Μ	
S-4250	Performance Requirements for ITC-Controlled Cable-Based Distributed Power Systems	2014	E-II	
RP-905	Performance Requirements for Refrigerated Boxcar Fuel Tanks	2006	С	
S-469	Performance Specification for Freight Brakes	2006	\mathbf{E}	
S-2042	Performance Specification for Sill Steps	2017	С	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2024	С	<u>Update Available</u>
M-118	Pin, Coupler Knuckle Pivot and Coupler Shank Connecting, Steel	2018	В	
S-4022	Pipe, Other than Schedule 80 Iron (RETIRED 04/16/2020)	2006	Ε	<u>Update Available</u>
S-184	Pocket Tolerances—EOC-10	2011	В	
S-182	Pocket Tolerances—EOC-8	2011	В	
S-183	Pocket Tolerances—EOC-9	2011	В	
M-951	Portable Bridge Plates for Multi-Level Autorack Cars	2023	Ν	
S-9081.V1.	1 Positive Train Control (PTC) – Interoperable Train Control (ITC) – Electronic Data Interchange (EDI) Rules Governing the Use of EDI 161, EDI 824 & EDI 418J	2021	K-I	<u>Update Available</u>
S-9081.V1.	2 Positive Train Control (PTC) – Interoperable Train Control (ITC) – Electronic Data Interchange (EDI) Rules Governing the Use of EDI 161, EDI 824 & EDI 418J	2021	K-I	<u>Update Available</u>
S-9501	Positive Train Control Data Model Definition	2018	K-VI	<u>Update Available</u>
S-	Positive Train Control Data Model Definition	2024	K-VI	<u>Update Available</u>
9501.V4.0)			
S-9501 Appendix A.V1.0	Positive Train Control Data Model Definition	2024	K-VI	<u>Update Available</u>
S-9080.V3	3 Positive Train Control Interoperability Committee Policy	2022	K-I	<u>Update Available</u>
S-9080.V4	4 Positive Train Control Interoperability Committee Policy	2022	K-I	<u>Update Available</u>
S-9080.V	5 Positive Train Control Interoperability Committee Policy	2024	K-I	Update Available

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	¹ Positive Train Control Interoperable Electronic Train Management System (I-ETMS) Master Test Strategy (MTS)	2012	K-V	<u> </u>
RP-9457.V	2Interoperable Train Control / Positive Train Control Master Test Strategy (MTS)	2021	K-V	<u>Update Available</u>
S-9055	Positive Train Control ITC Communications Segment Requirements—Level 1	2013	K-I	
S-9053	Positive Train Control ITC System Requirements– Level 0	2018	K-I	Update Available
S-9054	Positive Train Control ITC System Requirements– Level 1	2018	K-I	<u>Update Available</u>
S-9057	Positive Train Control ITC Systems Management Requirements—Level 1	2012	K-I	
S-9056	Positive Train Control ITC Wayside System Requirements—Level 1	2012	K-I	
S-9361 V3.0	Positive Train Control Office-Locomotive Segment— Interface Control Document (ICD)	2020	K-IV	<u>Update Available</u>
S-9361 V3.1	Positive Train Control Office-Locomotive Segment— Interface Control Document (ICD)	2021	K-IV	Update Available
S-4047	Positive Train Control—Locomotive Air Brake Interface Requirements	2017	Ε	
S-9103	Precision Navigation Module Interface Control Document (ICD)	2021	K-II	Update Available
S-050	Procedures for Considering Proposals Regarding Revisions to the Manual of Standards and Recommended Practices	2014	AS	
S-9419.V1	PSA-2 Back Office Application Requirements	2023	K-V	
S-9418.V1.	0PSA-2 Gateway Requirements	2024	K-V	
S-9504	PSA-2 W-OPK Service Requirements	2023	K-VI	
S-9372.V1.	0PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2014	K-IV	<u>Update Available</u>
S-9372.V1.	1PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2016	K-IV	Update Available
S-9372.V2.	0PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2018	K-IV	<u>Update Available</u>
S-9372.V3.	0PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2023	K-IV	Update Available
S-9371.V1.	0PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2014	K-IV	<u>Update Available</u>
S-9371.V2.	0PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available

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S-9371.V3.	0PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2021	K-IV	<u>Update Available</u>
S-9371.V4	0PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2022	K-IV	Update Available
S- 9008.V1.(PTC Security Architecture 2 (PSA 2)	2024	K-I	
S-9502.V1	0PTC Track Data Exchange	2020	K-VI	<u>Update Available</u>
S-9502.V1	1PTC Track Data Exchange	2020	K-VI	<u>Update Available</u>
S-9502.V2.	0PTC Track Data Exchange	2024	K-VI	<u>Update Available</u>
S-2009	Push Rod, Brake Cylinder	1964	\mathbf{E}	
M-915	Quality Assurance Requirements for Locomotives and Locomotive Components	2023	М	<u>Update Available</u>
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	С	
S-259	Rail Car, 286,000-lb Gross Weight	1994	С	
S-9552	Railroad Communications Network	2004	K-VI	
S-9401	Railroad Electronics Environmental Requirements	2009	K-V	
S- 9401.V1.1	Railroad Electronics Environmental Requirements	2024	K-V	
S-9353. V1.0	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	<u>Update Available</u>
S-9353. V1.1	Railroad Electronics Standards Committee (RESC) Data Dictionary	2021	K-IV	<u>Update Available</u>
S-9002	Railroad Electronics Standards Configuration Management	2009	K-I	
RP-815	Railroad Police Protection	2023	Ν	
S-9555	Railroad Use of IEEE 802.11	2015	K-VI	<u>Update Available</u>
RP-589	Rating for Specific Fuel Consumption of Diesel Electric Locomotives	2022	Μ	<u>Update Available</u>
RP-5126	Recessed Windshield Wiper Valve, Train-Order Light Switch, and Flush-Mounted Train-Order Light	2001	Μ	
RP-631	Recommended Wheel Shop Practices	2022	G-II	
M-300	Reconditioned Brake Beams	2012	\mathbf{E}	
S-619	Reference Groove for Multiple-Wear Diesel Wheels	2015	G	
S-5507	Remote Control Locomotives	2002	\mathbf{M}	
S-2045	Remote Monitoring Equipment, Installation	2022	С	<u>Update Available</u>
S-5531	Remote Monitoring Equipment, Locomotive— Installation	2019	М	
S-738	Repair Procedure Spalls, SWR, and Press Fit	2024	H-II	

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S-740	Requirements for Remanufacture of Roller Bearing Components	2024	H-II	
S-737	Requirements for Roller Bearing Reconditioning	2024	H-II	
S-9379	Requirements for Using an ITC EMP Application Gateway	2018	K-IV	<u>Update Available</u>
M-956	Requirements Governing Superstructures to Cars Equipped With Sliding Sill or End-of-Car Cushioning Devices	2023	Ν	
S-4007	Reservoir, Combined Auxiliary and Emergency— Reclamation Procedure	2002	Ε	
S-494	Reservoir, Steel Fabricated, Combined Auxiliary and Emergency	2005	Ε	
M-119	Retaining Pin and Keeper for F-Type Cushion Yoke	2009	В	
S-445	Retaining Valve—Location	2002	\mathbf{E}	
S-446	Retaining Valve, 1967-Type, Three-Position	2002	\mathbf{E}	
S-916	Retroreflective Comparator Panel Requirements	2018	\mathbf{C}	
RP-803	Ride Quality Performance Requirements for Motor Vehicle Shipments	2023	Ν	
S-724	Roller Bearing Manual—Information on Amtrak Passenger Car Bearings	2012	H-II	
S-721	Roller Bearing Manual—Mandatory Instructions and Practices	2018	H-II	
S-723	Roller Bearing Manual—Mandatory Minimum Requirements for Roller Bearing Reconditioning Shops—Procedures—Tool Requirements Necessary to Make Roller Bearing Repairs for Interchange Use	2024	H-II	<u>Update Available</u>
S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	2018	H-II	
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	2022	H-II	<u>Update Available</u>
S-722	Roller Bearing Manual—Rules Covering Requirements for Approval of Roller Bearing Shops to Recondition Roller Bearings for Interchange Service	2012	H-II	
RP-5127	Rounded Cab Window Latch in Locomotive Cabs	2001	Μ	
RP-5128	Rounding All Possible Exposed Convex Edges and Corners	2001	Μ	
S-4001	Rubber Products—Performance	2018	Ε	
S-226	Running Board, End Platform, and Brake Step— Design Approval	2020	С	

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S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2023	T-III	
S-2044	Safety Appliance Requirements for Freight Cars	2020	С	
S-5029	Safety Appliance Requirements for Intermodal Car- style Fuel Tenders	2023	T-III	
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2023	T-III	
S-219	Safety Appliances for Bulkhead Flatcars, Including Pulpwood Cars and Center Beam Cars	2017	С	
S-220	Safety Appliances for Special Service High-Side Gondolas with Fixed Ends	2017	С	
S-215	Safety Hangers and Retainers—for Freight Car Doors	1964	С	
M-916	Sand for Traction	2017	\mathbf{M}	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	2024	D	
S-235	Side Bearing Wear Plate—Car Body	2012	С	
S-213	Side Door and Door Frames, Boxcar—Plug Type	2024	С	Update Available
S-212	Side Door, Boxcar—Sliding Type	2012	С	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	2024	D	
S-318	Side Frame—Bolster Rotation Stop Lug	1965	S-II	
S-320	Side Frame—Column Wear Plate, Application	2024	D	
S-327	Side Frame—Roof Repair	2012	S-II	
S-317	Side Frame—Tolerances	1981	S-II	
S-319	Side Frame—Wide Land Rotation Stop Lug Column	1968	S-II	
S-3012	Side Frame, Alternate Standard Pedestal-Type with Side Frame Key—Application of Roller Bearing Unit	1994	S-II	
S-325	Side Frame, Narrow Pedestal—Limiting Dimensions	2009	S-II	
S-329	Side Frame, Narrow Pedestal—Roller Bearing	1997	S-II	
S-3010	Side Frame, Standard Pedestal-Type with Side Frame Key—Limiting Dimensions	1947	S-II	
S-314	Side Frame, Truck—Marking Diagram	2014	S-II	
M-210	Side Frame and Bolsters Manufacture	2024	\mathbf{S}	Update Available
S-393	Side Frames and Bolsters—Produced Prior to 1978	2001	S-II	
M-214	Side Frames and Bolsters, Used and Reconditioned—Classification and Repair Procedure	2024	S	Update Available

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0-2000	Gondola Cars	2011	U	
S-378	Side Frame, Cast Steel—Marking and Mating	2010	S-II	
S-3011	Side Frame, Standard Pedestal-Type Size 6 in. × 11 in. with Side Frame Key—Limiting Dimensions	1997	S-II	
S-461	Single-Capacity Freight Brakes—Performance Specification	2019	Ε	<u>Update Available</u>
S-4286	Single-Car Test for Testing Electronically Controlled Pneumatic Braking Systems—Design and Performance Requirements	2009	E-II	
M-949	Slack Adjuster Grease	2002	\mathbf{E}	
S-423	Slack Adjuster Reclamation—Automatic, Double- Acting, Mechanical Slack Adjusters	2010	Ε	
RP-400	Slack Adjuster—General Information	2002	\mathbf{E}	
S-420	Slack Adjuster—Limiting Design Dimensions (Group E)	2002	Ε	
S-421	Slack Adjuster, Center Rod Application (Group E)	2002	\mathbf{E}	
S-4008	Slack Adjuster, Mechanical, Double-Acting, Automatic Compression	2017	Ε	
S-419	Slack Adjuster, Mechanical, Double-Acting, Automatic Tension	2017	Ε	
S-4010	Slack Adjuster, Tension—Inspection, Testing, Removal, and Application	2018	Ε	
S-420A	Slack Adjuster, Tension—Limiting Design Dimensions	2002	Ε	
S-422	Slack Adjuster, Top Rod Application (Group E)	2002	\mathbf{E}	
S-9417	SMIA-2 Service Template	2023	K-V	
S- 9410.V1.0	SMIA-2 Event and Status Service	2024	K-V	
S- 9411.V1.0	SMIA-2 Architecture, Principles and Common Requirements	2024	K-V	
S- 9412.V1.0	SMIA-2 Identity Services	2024	K-V	
S- 9414.V1.0	SMIA-Service Registry	2024	K-V	
M-975	Span Bolsters	2020	\mathbf{S}	
RP-557	Spark Arrester	2001	Μ	
S-225	Spark Shield—Wooden Deck Cars with Cast Iron Brake Shoes	1980	С	

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S-399	Specification for Bottom Rod Safety Supports	1992	\mathbf{E}	
M-1001 AppC	Specification for Instrumented Wheel Sets	2022	C-II	Update Available
M-1003	Specification for Quality Assurance	2024	\mathbf{J}	Update Available
M-1002	Specifications for Tank Cars	2024	C-III	
S-3006	Spring—"D" Series, Recertified	2024	D	
S-3009	Specification for Self-Locking Cotter Keys	1992	\mathbf{E}	
S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	
M-1004	Interoperable Fuel Tenders for Locomotives	2023	T-I	
S-332	Spring—D2, 1 5/8-in. Travel	2024	D	
S-333	Spring—D3, 2 1/2-in. Travel	2024	D	
S-334	Spring—D4, 3 1/16-in. Travel	2024	D	
S-335	Spring—D5, 3 11/16-in. Travel	2024	D	
S-336	Spring—D6, 3 3/8-in. Travel	2024	D	
S-337	Spring—D6A, 3 15/16-in. Travel	2024	D	
S-338	Spring—D7, 4 1/4-in. Travel	2024	D	
S-339	Spring—Groups for D2	2024	D	
S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2024	D	
S-343	Spring—Groups with Hydraulic Snubber	2024	D	
S-340	Spring—Groups without Load-Carrying Snubbers	2024	D	
S-341	Spring—Groups with Load-Carrying Snubbers (Single-Side Springs)	2024	D	
M-114	Spring—Heat-Treated Steel	2024	D	
RP-306	Spring Test Machine, Pneumatic	2024	D	
RP-307	Spring Test Machine, Electro-Hydraulic	2024	D	
RP-209	Stake Pocket—for Flatcars	1998	\mathbf{C}	
RP-208	Stake Pocket—Permanent	1998	\mathbf{C}	
S-9202B	Stand-alone Wayside Messaging Server Hardware Requirements	2012	K-III	
S-365	Standard Location of Brake Hanger Brackets and Unit Guide Brackets	1979	Ε	
M-935	Standard Operating Procedures for Intermodal Securement	2017	Ι	
RP-831	Standard Vehicle Nomenclature	2023	Ν	
S-630	Steel Wheel Gauge	2013	G	

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S-238	Striker, Cast Steel, F70 Coupler Design, 24 5/8-in. Draft Gear Pocket—Parts and Assembly	1978	C C	
S-236	Striker, Cast Steel, F70 Coupler Design, 24 5/8-in. Draft Gear Pocket—Welded Application	1978	С	
RP-323	Stop Lugs for Clip-On-Type Pedestal Roof Liners— Application	2024	D	
S-720	Tabulation of Adapters and Frame Keys for AAR- Approved Roller Bearings	2008	Η	
S-2036	Temperature—for Car Structures and Components	1983	С	
S-5031	Tender-Fill Control Cable, Cable Assembly, and Receptacle (FC-18)	2023	T-III	
S-5032	Tender-Fill Ethernet Cable, Cable Assembly, and Receptacle (FC-8)	2023	T-III	
RP-545	Testing Electrical Components (RETIRED 01/04/2021)	2001	Μ	Update Available
S-464	Test Rack, Multiple-Car—Performance Testing Procedure	2019	Ε	Update Available
S-463	Test Rack, Multiple-Car, Freight Brake	2019	\mathbf{E}	<u>Update Available</u>
S-465	Test Rack, Single-Car	2002	\mathbf{E}	
S-466	Test Rack, Single-Car, for Individual Valve Portions—Performance Testing Procedure	2005	Ε	
S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	2023	Ν	
M-990	Tie-Down Tracks, Wheel Chocks, and Straps (Tri- Level Autoracks)	2023	Ν	
M-957	Tie-Down Tracks, Winches, and Chains	2023	Ν	
M-966	TOFC Portable Bridge Plates	2004	Ι	
RP-853	Trailer Repair and Modification	2022	Ι	Update Available
M-931	Trailers for Intermodal Service	2019	Ι	Update Available
S-253	Train Coal Car, 100-Ton Nominal Capacity, with Train Positioner—Clearance Diagram	1982	С	
S-4003	Train Line Arrangement for Cars with F-Shank Couplers	2005	Ε	
S-4029	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Exceeding 45 in. in Length	2008	Ε	
S-4028	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Not Exceeding 45 in. in Length	2008	Ε	

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S-4013	Train Line Hoses—Coupling Extension Adapter	2002	E	
S-4031	Trainline Arrangement for Cars with E-Type Couplers and with Draft System Buff Travel of 6 to 10 Inches	2024	Ε	
S-4032	Trainline Arrangement for Cars with E/F-Type Couplers and Draft System Buff Travel of 6 to 10 Inches	2024	Ε	
S-4030	Trolley Arrangement on Cars with EOCC and E Shank Couplers	2008	Ε	
S-2037	Trough Hatch Cover	2015	\mathbf{C}	
M-202	Truck Bolsters, Cast or Structural—Design and Testing	2021	S	
M-213	Truck Frames, Fabricated Steel	2021	\mathbf{S}	
M-976	Truck Performance for Rail Cars	2024	D	
M-948	Truck Side Bearing	2024	D	
M-203	Truck Side Frames, Cast Steel—Design and Testing	2024	\mathbf{S}	<u>Update Available</u>
S-392	Truck—Design Drawings	2018	S-II	
S-301	Truck, 33-in. Wheels—Design Dimensions	2018	S-II	
S-302	Truck, 36 in. Wheels—Design Dimensions	2018	S-II	
S-304	Truck, 38 in. Wheels—Design Dimensions	2018	S-II	
S-300	Truck, Freight Car—Design Data	2016	S-II	
M-204	Truck, Freight Car, with Car Body/Side Frame Load Path—Design and Testing	2011	S	
RP-505	Typical 26-L Type Brake Equipment Piping Diagrams for Locomotives	2001	Μ	
S-5022	Ultra-Low Sulfur Diesel (ULSD) Identification Label/Decal	2015	Μ	
M-961	Uncoupling Devices, Special	2003	S-III	
M-921H	Unit Condition Indicator, Standard EOC and COC Cushioning Devices	2018	В	
S-366	Unit Guide Bracket, EC-2055—Design Dimensions	2009	S-II	
S-3005	Universal Brake Beam Gauge	1985	\mathbf{E}	
M-934E	Universal Fitted Backing Rings For Freight Car Tapered-roller Journal Bearings	2019	Η	
RP-231	Universal Pocket—Typical Sections and Notes	1975	С	
RP-228	Universal Pocket, 10-in. Cushion, Low Deck—E69 Coupler	1975	С	
RP-227	Universal Pocket, 15-in. Cushion, E69 Coupler	1975	С	
M-950-A	Universal Wide-Body Bi-Level Fully Enclosed Autorack Car (Standard Deck)	2023	Ν	Update Available

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M-950	Universal Wide-Body Tri-Level Fully Enclosed Autorack Car (Low Deck)	2023	Ν	<u>Update Available</u>
RP-816	Unloading of Vehicles	2023	Ν	
M-991	Vehicle Door Edge Protection System for Multi-Level Autorack Cars	2023	Ν	
S-490	Vent Protector Performance and Approval	2002	\mathbf{E}	
S-227	Walkways, Alternate—at Sides of Double-Stack Car Wells	2020	С	
S-6100	Wayside Detector Data Processing	2016	\mathbf{F}	
S-6102	Wayside Passing Data Format	2021	\mathbf{F}	Update Available
S-705	Wear Gauge for Journal Roller Bearing Adapters	1978	Η	
S-706	Wear Gauge for Journal Roller Bearing Adapters	1975	Η	
S-367	Wear Plate for Unit-Type Brake Beam Guide in Side Frame	2003	Ε	
M-269	Wear Plate, Coupler Carrier, Performance Specification—Non Metallic	2003	В	
S-270	Wear Plate, Used in Cushion Unit and Draft Systems that Employ the Y-47 Pin for an F Shank	2024	В	<u>Update Available</u>
S-402	Welding of Air Brake Pipe and Fittings for Railroad Cars—Welding Procedure	2020	Ε	<u>Update Available</u>
RP-802	Wheel Chock Strap Assembly Replacement	2023	Ν	
S-614	Wheel Defect—Worn Journal Collar and Journal Fillet Gauge	2004	G	
S-615	Wheel Defect—Worn Journal Collar and Journal Fillet Gauge	2004	G	
S-660	Wheel Designs, Locomotive and Freight Car— Analytic Evaluation	2009	G	
S-6030	Wheel Performance—Dynamic Impact and Rim Thickness	2016	F	
S-6103	Wheel Profile Detector	2022	\mathbf{F}	<u>Update Available</u>
S-5021	Wheel Size and Speed Pickup Axle Identification	2016	Μ	
RP-750	Wheel-Mounting Compound Approval Test Procedure	2015	G-II	
S-657	Wheel, Passenger Car (Amfleet)	1980	G	
S-601	Wheels—Manufacturing Facility Inspection by Technical Services	2004	G	
S-611	Wheels—Measuring Wheel Circumference (Tape) Using Wheel Gauges S-612 and S-613	2004	G	
M-107/ M-208	Wheels, Carbon Steel	2020	G	

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RP-5136	Windshield Wiper Motor Handle with Soft-Rubber- Type Grip	2001	Μ	
RP-5137	Windshield Wiper Motor Protective Cover	2001	\mathbf{M}	
RP-588	Wire and Cable Insulating Material	2001	\mathbf{M}	
RP-586	Wire and Cable Insulating Material—Moisture- Resisting Jacketed	2005	Μ	
RP-587	Wire and Cable Insulating Material—Silicone Rubber Insulated	2005	Μ	
RP-585	Wiring and Cable Specification	2001	\mathbf{M}	
S- 9421.V1.0	WIU ITCSM Agent Requirements to Support PSA-2	2024	K-V	
M-205	Yoke, Coupler—Test Requirements	2023	\mathbf{S}	Update Available
S-176	Yoke, E Type, Cushioning, for Pocket EOC-7	2020	S-III	
S-177	Yoke, E Type, Cushioning, for Pocket EOC-8	2020	S-III	
S-143	Yoke, E Type, SY40AE or YS93AE, Standard, for 24 5/8-in. Draft Gear Pocket	2009	S-III	
S-141	Yoke, E Type, Y40AE, Standard, for 24 5/8-in. Draft Gear Pocket	2009	S-III	
S-142	Yoke, E Type, Y41AE for 36-in. Draft Gear Pocket	2009	S-III	
S-149	Yoke, E/F and F Type, Y45AE, Standard, for 24 5/8- in. Draft Gear Pocket	2003	S-III	
S-151	Yoke, E/F Type, Y49AE, Standard, for 36-in. Draft Gear Pocket	2003	S-III	
S-180	Yoke, F Type, Cushioning, for Pocket EOC-1, EOC-2, and EOC-16	2020	S-III	
S-179	Yoke, F Type, Cushioning, for Pocket EOC-10 and EOC 26	2020	S-III	
S-178	Yoke, F Type, Cushioning, for Pocket EOC-9	2020	S-III	
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S-5032	Tender-fill Ethernet Cable (FC-8)	2023	T-III	

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S-046	Definitions of Terms for the AAR Manual of Standards and Recommended Practices	2015	AS	Update Available
S-050	Procedures for Considering Proposals Regarding Revisions to the Manual of Standards and Recommended Practices	2014	AS	
S-051	Conditions Governing Withdrawal of AAR Approval of Freight Car and Locomotive Components and Products	2000	AS	
S-060	Application for Component Approval Procedure	2015	AS	<u>Update Available</u>
M-118	Pin, Coupler Knuckle Pivot and Coupler Shank Connecting, Steel	2018	В	
M-119	Retaining Pin and Keeper for F-Type Cushion Yoke	2009	В	
M-269	Wear Plate, Coupler Carrier, Performance Specification—Non Metallic	2003	В	
M-901B	Draft Gear, Secondhand and Reconditioned	2015	В	
M-901E	Draft Gears with a Minimum Capacity of 36,000 ft·lb at a Reaction of 500,000 lb	2023	В	Update Available
M-901F	Draft Gear Reaction Forces, Measuring and Recording, Instrumentation Requirements	2003	В	
M-901G	Draft Gear, Rated by Impact Testing	2023	В	<u>Update Available</u>
M-901K	Draft Gear, All-Hydraulic, Rated by Impact Testing	2015	В	
M-902	End-of-Car Energy Management Systems	2024	В	
M-921A	Cushioning Devices, Sliding Sill	2018	В	
M-921B	Cushioning Devices, End-of-Car	2024	В	Update Available
M-921C	Cushioning Devices, Reconditioned—Approved for Freight Service	2024	В	<u>Update Available</u>
M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle- Carrying	2024	В	<u>Update Available</u>
M-921E	Cushioning Devices, Active Draft End	2024	В	<u>Update Available</u>
M-921F	Cushioning Devices, Active Draft End of Car	2024	В	<u>Update Available</u>
M-921G	Facility Inspection Requirements for Manufacturers of New and Reconditioned Cushioning Devices for Freight Service	2024	В	<u>Update Available</u>
M-921H	Unit Condition Indicator, Standard EOC and COC Cushioning Devices	2024	В	Update Available

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RP-110	Cushioning Device Inspection	2003	В	
RP-906	Methodology: Multi-Car Drifting Simulations	2024	В	
S-100	Bushings, Seamless Steel Tube—Coupler Shanks and Yokes	2010	В	
S-101	Field Service Experience—Reporting Requirements	2003	В	
S-119	Draft Gear Follower, Y44A	2012	В	
S-120	Draft Key Retainers, Locks, Keepers, and Washer	2011	В	
S-121	Draft Key	2017	В	
S-125	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective ACF Freight Saver 20- or 30-in. Travel Units—Plate No. 526-1	2003	В	
S-126	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Keystone 20-in. Travel Unit, Santa Fe Shock Control, A.O. Smith Cushion Ride, and Rockwell Cargo Cushion—Plate No. 526-2	2003	В	
S-127	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Cushion 10-, 12-, or 20-in. Travel Units or Evans Cushion Pak Wide Tunnel Units—Plate No. 526-3	2003	В	
S-128	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Pullman Standard Hydroframe 40 and 60 Units or National 3C Wide Tunnel Units—Plate No. 526-4	2003	В	
S-156	Immobilization of Freightmaster Types SP-E and SP-C	2003	В	
S-157	Immobilization of Freightmaster Types F, FS, and B	2003	В	
S-158	Immobilization of Freightmaster	2003	В	
S-159	Immobilization of Freightmaster Types HD and AR- ${\rm F}$	2003	В	
S-160	Immobilization of Keystone Type E Miner SR-12	2003	В	
S-161	Immobilization of Freightmaster 10-in. Type E Miner M-12S	2003	В	
S-162	Immobilization of Keystone F Shank	2003	В	
S-171	Immobilization of Pullman Standard, ACF, or Keystone Center-of-Car Cushioning Devices ("Dummy Cylinder Method")	2003	В	

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S-182	Pocket Tolerances—EOC-8	2011	В	
S-183	Pocket Tolerances—EOC-9	2011	В	
S-184	Pocket Tolerances—EOC-10	2011	В	
S-269	Coupler Carrier Wear Plate	2003	В	
S-270	Wear Plate, Used in Cushion Unit and Draft Systems that Employ the Y-47 Pin for an F Shank	2024	В	Update Available
M-800	Hopper Car, Covered—For Transport of Oxidizing Commodities	2023	С	Update Available
M-801	Hopper Car, Covered—Pressurized During Unloading and In-Transit	2023	С	Update Available
M-908	Flat Steel Floor for Freight Cars 50,000, 60,000, 70,000 or 80,000 lb Capacities	2006	С	
M-947	Adhesive-Backed Films for Marking Cars— Performance-Based Requirements	2015	С	
M-964	Floor, Nailable Steel—Freight Cars 50,000-, 60,000-, 70,000- or 80,000-lb Capacities	2006	С	
M-968	Design Requirements for Rigid Open-Top Freight Car Covers	2024	С	
RP-200	Hopper Car, Open Top, in Shaker Service—Design Features	1976	С	
RP-206	Decking, Wood—for Open Top Cars	1981	С	
RP-208	Stake Pocket—Permanent	1998	С	
RP-209	Stake Pocket—for Flatcars	1998	С	
RP-227	Universal Pocket, 15-in. Cushion, E69 Coupler	1975	С	
RP-228	Universal Pocket, 10-in. Cushion, Low Deck—E69 Coupler	1975	С	
RP-231	Universal Pocket—Typical Sections and Notes	1975	С	
RP-232	Ladder, End and Side—Configuration	1981	\mathbf{C}	
RP-233	Hold-Down Clips—Gondolas, Side Sheet Mounted	1948	С	
RP-234	Hold-Down Clips—Gondolas, Top Cord Mounted	1982	С	
RP-258	Hopper Car—Grain Service	1992	С	
RP-401	Brake Control Valves—Mount-Configuration Designs as Related to Field Vibration	2014	С	
RP-905	Performance Requirements for Refrigerated Boxcar Fuel Tanks	2006	С	
RP-940	Electronic Distribution Format For Engineering Drawings	2005	С	
RP-2017	Striker Casting, Cast Steel	1991	С	

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RP-2018	Handholds, Steps, and Ladders for Interior Access	2023	С	Update Available
S-203	Coupler, Height Adjustment (RETIRED 07/20/2023)	1962	С	<u>Update Available</u>
S-204	Body Center Plate, Separable—Surface Finish	2014	\mathbf{C}	
S-206	Body Center Plate, Cast Steel or Forged—for Freight Cars with 14 in. Center Plates	1978	С	
S-207	Body Center Plate, Cast Steel or Forged—for Freight Cars with 16 in. Center Plates	2014	С	
S-211	Body Center Plate Gauge—14-in. and 16-in. Diameter	1976	С	
S-212	Side Door, Boxcar—Sliding Type	2012	\mathbf{C}	
S-213	Side Door and Door Frames, Boxcar—Plug Type	2024	\mathbf{C}	<u>Update Available</u>
S-215	Safety Hangers and Retainers—for Freight Car Doors	1964	С	
S-217	Identification Plate—Boxcar Doors	2009	\mathbf{C}	
S-219	Safety Appliances for Bulkhead Flatcars, Including Pulpwood Cars and Center Beam Cars	2017	С	
S-220	Safety Appliances for Special Service High-Side Gondolas with Fixed Ends	2017	С	
S-224	Handholds, Safety Railings, and Ladder Treads	2015	С	
S-225	Spark Shield—Wooden Deck Cars with Cast Iron Brake Shoes	1980	С	
S-226	Running Board, End Platform, and Brake Step— Design Approval	2020	С	
S-227	Walkways, Alternate—at Sides of Double-Stack Car Wells	2020	С	
S-229	DOT Placard Location	2013	С	
S-230	Lading Strap Anchor Arrangement and Use—for Flatcars	1973	С	
S-233	Gravity Outlet Gates, New—for Covered Hopper Cars	2014	С	
S-234	Lifting Freight Cars	1982	С	
S-235	Side Bearing Wear Plate—Car Body	2012	С	
S-236	Striker, Cast Steel, F70 Coupler Design, 24 5/8-in. Draft Gear Pocket—Welded Application	1978	С	
S-238	Striker, Cast Steel, F70 Coupler Design, 24 5/8-in. Draft Gear Pocket—Parts and Assembly	1978	С	
S-239	Arrangement E60 Coupler Design 24 5/8 in. Draft Gear Pocket Striker Applied by Welding	2012	С	
S-243	Draft Arrangement, E68 Coupler, 24 5/8-in. Pocket	1983	С	

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S-245	Draft Arrangement, F70 Coupler, 24 5/8-in. Pocket— Striker Applied by Welding	1978	С	
S-247	Draft Arrangement, F79 Coupler, 24 5/8-in. Pocket	1978	С	
S-249	Door Puller Bracket, Application to Intermediate Post	1978	С	
S-252	Door Air Lines—Location of End Cocks	1978	С	
S-253	Train Coal Car, 100-Ton Nominal Capacity, with Train Positioner—Clearance Diagram	1982	С	
S-254	Draft Pocket Tolerances	1974	С	
S-255	Combined Striker and Front Draft Lug Tolerances	1974	С	
S-258	Body Center Plate Relief	1980	С	
S-259	Rail Car, 286,000-lb Gross Weight	1994	\mathbf{C}	
S-265	Center Pin—Freight Car	1989	\mathbf{C}	
S-266	Center Sill Section, Rolled Steel	2012	\mathbf{C}	
S-267	Center Sill Section—Welding Notes	1979	\mathbf{C}	
S-286	Free/Unrestricted Interchange for 286,000 lb Gross Rail Load Cars (RETIRED 12/29/2022)	2022	С	Update Available
S-910	Marking of Freight Cars	2023	С	Update Available
S-916	Retroreflective Comparator Panel Requirements	2018	\mathbf{C}	
S-2008	Card Holder—Bad Order	2013	С	
S-2025	Hopper Car—End for Door Operating Shaft	1914	\mathbf{C}	
S-2034	Car Builder Certification	2019	\mathbf{C}	
S-2035	Side Handhold, Additional—Hopper and High-Side Gondola Cars	2017	С	
S-2036	Temperature—for Car Structures and Components	1983	\mathbf{C}	
S-2037	Trough Hatch Cover	2015	\mathbf{C}	
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	С	
S-2039	Batten Bars	2014	С	
S-2042	Performance Specification for Sill Steps	2017	С	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2024	С	Update Available
S-2044	Safety Appliance Requirements for Freight Cars	2020	С	
S-2045	Remote Monitoring Equipment, Installation	2022	\mathbf{C}	Update Available
S-2046	Accelerated Fatigue Test Specification for Increased Life Status Applications	2006	С	
S-2049	Anti-Pilferage Device—Boxcar Sliding Door	2007	С	
S-2050	Anti-Pilferage Device—Boxcar Plug Door	2007	С	

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S-2054	Clearance Diagram—Interface Between a Well Car and a Container Equipped with a Refrigerator/ Heater Unit	2016	С	
S-2055	Body Center Plate, Low Profile	2014	С	
S-2056	Clearance Plate Diagrams for Interchange Service	2024	С	Update Available
M-1001	Design, Fabrication, and Construction of Freight Cars	2023	C-II	
M-1002	Specifications for Tank Cars	2024	C-III	
M-1003	Specification for Quality Assurance	2024	\mathbf{J}	Update Available
M-114	Spring—Heat-Treated Steel	2024	D	
M-948	Truck Side Bearing	2024	D	
M-965	Truck Systems to Control Roll Stability of Freight Cars	2024	D	
M-976	Truck Performance for Rail Cars	2024	D	
M-979	Center Bowl Liner—Requirements for Approval	2024	D	
M-980	Friction Wedge Performance for Railcars—Dynamic Wear Test	2024	D	
RP-306	Spring Test Machine, Pneumatic	2024	D	
RP-307	Spring Test Machine, Electro-Hydraulic	2024	D	
RP-323	Stop Lugs for Clip-On-Type Pedestal Roof Liners— Application	2024	D	
S-306	Center Bowl Vertical Wear Liner	2024	D	
S-307	Center Bowl Horizontal Wear Liner	2024	D	
S-308	Center Bowl Wear Liner Application	2024	D	
S-320	Side Frame—Column Wear Plate, Application	2024	D	
S-332	Spring—D2, 1 5/8-in. Travel	2024	D	
S-333	Spring—D3, 2 1/2-in. Travel	2024	D	
S-334	Spring—D4, 3 1/16-in. Travel	2024	D	
S-335	Spring—D5, 3 11/16-in. Travel	2024	D	
S-336	Spring—D6, 3 3/8-in. Travel	2024	D	
S-337	Spring—D6A, 3 15/16-in. Travel	2024	D	
S-338	Spring—D7, 4 1/4-in. Travel	2024	D	
S-339	Spring—Groups for D2	2024	D	
S-340	Spring—Groups without Load-Carrying Snubbers	2024	D	
S-341	Spring—Groups with Load-Carrying Snubbers (Single-Side Springs)	2024	D	
S-342	Spring—Groups with Load-Carrying Snubber (Double-Side Springs)	2024	D	

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S-373	Peep Hole—Location for Checking Brake Cylinder Piston Travel on Cars with Deep Side Sills	2024	D	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	2024	D	
S-394	Side Bearing Pad for Two-Hole Application	2024	D	
S-3006	Spring—"D" Series, Recertified	2024	D	
S-3007	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
S-3008	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	
S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
S-3015	Freight Car Truck Springs—without Load-Carrying Snubber	2024	D	
S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2024	D	
M-300	Reconditioned Brake Beams	2012	\mathbf{E}	
M-402	Brake Shoe, Cast Iron, High-Phosphorus Type	2002	\mathbf{E}	
M-601	Hose, Wrapped, Air—Brake, "End Hose"	2006	\mathbf{E}	
M-602	Gaskets, Air Hose	2023	\mathbf{E}	Update Available
M-618	Hose, Air, Wire-Reinforced	2011	\mathbf{E}	
M-619	Brake Cylinder Line Hose Assemblies— Performance Requirements	2005	Ε	
M-620	Hose, Air, Fabric-Reinforced	2011	\mathbf{E}	
M-912	Oil, Control Valve	2002	\mathbf{E}	
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S-9401	Railroad Electronics Environmental Requirements	2009	K-V	
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S- 9411.V1.0	SMIA-2 Architecture, Principles and Common) Requirements	2024	K-V	
S- 9412.V1.0	SMIA-2 Identity Services	2024	K-V	
S- 9414.V1.0	SMIA-Service Registry	2024	K-V	
S- 9415.V1.0	Automated Certificate Update	2024	K-V	
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S-9451A.V	1ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	
S-9451A.V	2ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2021	K-V	Update Available
S-9452	ITCSM Common Data Dictionary for Interoperable Train Control	2018	K-V	Update Available
S- 9452.V3.:	ITCSM Common Data Dictionary for Interoperable Train Control	2024	K-V	Update Available
S-9452A.V	1ITCSM WIU Asset-Specific Data Dictionary for Interoperable Train Control	2012	K-V	
S-9452A.V	2 ITCSM WIU Asset-specific Data Dictionary for Interoperable Train Control	2021	K-V	Update Available
S-9454	ITC System Management (ITCSM) Back Office Requirements for Interoperable Train Control	2014	K-V	
S-9460	ITCSM Interface Control Document for Interoperable Train	2018	K-V	Update Available
RP-9511	Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation	2019	K-VI	Update Available
S-9501	PTC Data Model Definition	2018	K-VI	Update Available
S- 9501.V4.(Positive Train Control Data Model Definition	2024	K-VI	<u>Update Available</u>
S-9501 Appendix A.V1.0	Positive Train Control Data Model Definition	2024	K-VI	<u>Update Available</u>
	0PTC Track Data Exchange	2020	K-VI	Update Available
	1PTC Track Data Exchange	2020	K-VI	Update Available
S-9502.V2	0PTC Track Data Exchange	2024	K-VI	Update Available
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	Update Available
S-9503. V3.0	ITC Track Data File Format	2022	K-VI	Update Available
S-9504	PSA-2 W-OPK File Service Requirements	2023	K-VI	
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S-9558.V1.	0 Interoperable IP Network Address Allocations	2021	K-VI	<u>Update Available</u>
M-915	Quality Assurance Requirements for Locomotives and Locomotive Components	2023	Μ	<u>Update Available</u>
M-916	Sand for Traction	2017	\mathbf{M}	
M-1005	Locomotive Electronics Safety Assessments and Analyses	2022	Μ	<u>Update Available</u>
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RP-505	Typical 26-L Type Brake Equipment Piping Diagrams for Locomotives	2001	Μ	
RP-508	Air Brake Exhaust Piping	2001	\mathbf{M}	
RP-509	Braking Ratios for Locomotives	2024	\mathbf{M}	<u>Update Available</u>
RP-512	Color Code for Identifying Fluids on Locomotive	2001	\mathbf{M}	
RP-514	Designation of Sides and Ends of Locomotives	2001	Μ	
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RP-545	Testing Electrical Components (RETIRED 01/04/2021)	2001	Μ	<u>Update Available</u>
RP-546	Minimum Requirements for Main Reservoir System on New and Rebuilt Diesel-Electric, Electric, and Gas Turbine Locomotives of 800-hp Capacity and Greater	2001	М	
RP-548	Locomotive Rating Train/Track Resistance	2001	\mathbf{M}	
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RP-5128	Rounding All Possible Exposed Convex Edges and Corners	2001	М	
RP-5132	Diesel Locomotive Control Stand for New Locomotives	2001	М	
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RP-5209	Basic Brake Design Data for Freight Locomotives (RETIRED 05/20/2024)	2024	М	Update Available
RP-5503	Locomotive Fueling Interface	2001	Μ	
RP-5523	Axle Nomenclature Arrangement—Locomotives	2001	Μ	
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	Μ	
RP-5596	Brake Shoes—Metal Type	2001	Μ	
S-512	27-Point Control Plug and Receptacle	2007	Μ	
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S-591	Locomotive System Integration Operating Display	2020	Μ	
S-5018	Dynamic Braking Control	2020	Μ	
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S-5022	Ultra-Low Sulfur Diesel (ULSD) Identification Label/Decal	2015	Μ	

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S-5509	Locomotive Dynamic Brake Status Reporting	2018	Μ	
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	М	Update Available
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S-5530	Locomotive Headlight Control	2018	\mathbf{M}	
S-5531	Remote Monitoring Equipment, Locomotive— Installation	2019	М	
S-5597	Air Flow Indicators	2007	\mathbf{M}	
S-5598	Calibration Procedure for AFM Type Air Flow Indicators	2007	Μ	
M-941	End Enclosure for Fully Enclosed Multi-Level Auto Rack Cars	2023	Ν	
M-950	Universal Wide-Body Tri-Level Fully Enclosed Autorack Car (Low Deck)	2023	Ν	Update Available
M-950-A	Universal Wide-Body Bi-Level Fully Enclosed Autorack Car (Standard Deck)	2023	Ν	<u>Update Available</u>
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M-970	Condition-Based Certification of Multi-Level Auto Rack Cars	2023	Ν	<u>Update Available</u>
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M-992	Designated Satellite Shop Repair Specifications for Multi-Level Autorack Cars	2024	Ν	Update Available
M-993	Mechanical Certification of Flatcars for Autorack Service	2023	Ν	
RP-802	Wheel Chock Strap Assembly Replacement	2023	Ν	
RP-803	Ride Quality Performance Requirements for Motor Vehicle Shipments	2023	Ν	
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	2023	Ν	
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S-810	Field Impact and Over-the-Road Tests of Multi- Level Tie-down Equipment and/or Methods	2023	Ν	
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ARCHIVED/RENUMBERED DOCUMENTS

This table provides historical reference information for documents that have been archived or renumbered.

DocNo.	Title	Change
M-112	Springs-Carbon Steel Bars, plate Steel-Bars, Truck Springs	Archived 02/23/2007 via C-10469
M-113	Springs-Elliptical, Leaf style Steel-Bars and Bands for Elliptical Springs	Archived 02/23/2007 via C-10469
M-504	Copper-Tubes, Types A and B Tubes-Copper, Seamless	Archived 02/23/2007 via C-10469
M-604	Hose-Cold Water, Wrapped, Braided	Archived 02/23/2007 via C-10469
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M-617	Hose-Fuel Oil Dispensing	Archived 02/23/2007 via C-10469
M-901C	Draft Gear—36 in. Pocket	Archived 10/23/2006 via C-10375
M-901H	Draft Gear—Impact Testing, Alternate Standard	Archived 10/23/2006 via C-10375
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M-907A	Flooring—Laminated Wood	Archived 08/10/2007 via C-10569
M-922	Cap Screws-Self Locking Nuts-Self Locking	Archived 02/23/2007 via C-10469
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M-946	For Adjustable Bulkheads Non-Pneumatic Type for Box Cars	Archived 02/23/2007 via C-10467
M-953	Minimum Requirement Standard for Railroad Flatcars for Handling farm and Industrial Equipment	Archived 04/30/2008 via C-10721
M-960	Adjustable Column Type Bulkheads for Box Cars	Archived 02/23/2007 via C-10467
M-962	Remanufacture of TOFC Trailers	Archived 11/02/2017 via C-12983
RP-011	Car Rack for Mounted Wheel Sets Flat Car Rack for Mounted Wheels Mounted Wheels-Rack for Shipment Rack-Wheel Sets, Shipments	Archived 02/23/2007 via C-10469
RP-012	Rivet-Two Piece, Safety Appliance Safety Appliance-Two Piece Rivet Two Piece Rivet- Safety Appliances	Archived 02/23/2007 via C-10469
RP-021	Implementation of Equipment Identification and Warranty Administration	Archived 10/27/17 via C-12977
RP-202	Center Plate-Unit Pressures	Archived 02/23/2007 via C-10467
RP-203	Door-Stock Car	Archived 02/23/2007 via C-10467
RP-204	Lumber-Moisture Content	Archived 08/10/2007 via C-10569
RP-205	Car-Lumber Lining Boards	Archived 02/23/2007 via C-10467
RP-207	Defect Card Receptacle	Archived 03/23/2011 via C-11409
RP-210	Alcohol Burning Heater	Archived 02/23/2007 via C-10467
RP-211	Refrigerator Car Drain Extension	Archived 02/23/2007 via C-10467
RP-212	Boxcar, Insulated—Heat Transmission Rate	Archived 04/16/2007 via C-10486

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RP-220	Stringer-Arrangement, Box Car
RP-222	Univ. Pocket-Cushion 15", E6OCHT Coupler
RP-223	Univ. Pocket-Cushion 10, EGOCHT, E67AH'T
RP-224	Univ. Pocket-Cushion 15", E67AHT Coupler
RP-225	Univ. Pocket-Cushion 1 0 , E68AHT, F79AHT
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Locomotive Cab Seats

Change

Archived 02/23/2007 via C-10467 Archived 02/23/2007 via -10467 Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 but reinstated as S-239, its former number, 02/04/2012 via C-11615 Door-Single, Sliding, Panel Type Archived 02/23/2007 via C-10467 Door-Double, Sliding, Panel Type Archived 02/23/2007 via C-10467 Door-Single, Plug, No. 3 Type Archived 02/23/2007 via C-10467 Door-Plug and Sliding No.3 Type Archived 02/23/2007 via C-10467 Door Arrangement Double Plug Type No. 3 Archived 02/23/2007 via C-10467 Gondola Car-End Arrangement Archived 02/23/2007 via C-10467 Gondola Car-Drop End Arrangement Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 Hopper Car-End Arrangement Archived 02/23/2007 via C-10467 Box Car-Grain Door Nailers Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 Hopper Arrangement-Cast Steel Frame (formerly S-250) Archived 02/23/2007 via C-10467 Hopper Arrangement-Two Piece Hopper (formerly S-251) Roof Arrangement-Diagonal Panel, Box Car Archived 02/23/2007 via C-10467 **Refrigerator Car Specifications** Archived 02/23/2007 via C-10467 Anti-Pilferage Device—Boxcar Sliding Door Renumbered S-2049 4/25/2007 Anti-Pilferage Device—Boxcar Plug Door Renumbered S-2050 4/25/2007 Floor Restraint, Intermodal Container Cars Archived 02/23/2007 via C-10467 Archived 02/23/2007 via C-10467 **Double-Stack Container Cars** Archived 02/23/2007 via C-10467 Center Bowl Liner and Lubricant—Double-Stack Archived 11/25/2019 via C-13477 Center Plate—Liner, Vertical 6 in. × 11 in. Center Plate—Liner, Vertical 6 in. × 11 in.

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RP-253

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RP-257

RP-260

RP-261

RP-300

RP-301

RP-305

RP-5104

Archived 07/14/2011 via C-11472 Archived 07/14/2011 via C-11472 Archived 07/14/2011 via C-11472 Archived 1/27/2016 via C-12559

ARCHIVED/RENUMBERED DOCUMENTS

DocNo.	Title	Change
RP-512	Color Code for Identifying Fluids on Locomotive	Renumbered S-5020
RP-545	Testing Electrical Components	Archived 01/04/2021 via C-13731
RP-619	Reference Groove for Multiple-Wear Diesel Wheels	Renumbered S-619
RP-750	Wheel Mounting Compound Approval Test Procedure	Archived 03/06/17 via C-12839
RP-800	Standards for Reconditioned Cross members and Doorway Members	Archived 02/23/2007 via C-10467
RP-900	Passenger Car	Archived 08/06/2020 via C-13630
RP-901	Boxcars Equipped with Removable Crossbars	Archived 08/06/2020 via C-13630
RP-902	Cars Equipped with Antipilferage Devices	Archived 08/06/2020 via C-13630
RP-903	Lading Strap Anchors	Archived 08/06/2020 via C-13630
RP-904	Gondola Cars with Wood Floors	Archived 08/06/2020 via C-13630
RP-5209	Basic Brake Design Data for Freight Locomotives	Archived 05/20/2024 via C-14373
S-045	Passenger Equipment Car Maintenance Requirements	Renumbered S-4045
S-118	Periodic Inspection of Manufacturers' Facilities	Archived 06/20/2007 via C-10541
S-122	Draft Key Retainer	Archived 02/16/2011 via C-11381
S-2017	Striker—Casting	Renumbered RP-2017 02/23/2007 via C-10467
S-2018	Striker—E Coupler, 24 5/8 in. Riveted	Archived 02/23/2007 via C-10467
S-2019	Striker—E Coupler, 36 in. Riveted	Archived 02/23/2007 via C-10467
S-202	Coupler Height	Archived 02/23/2007 via C-10467
S-2021	Striker—E67 Coupler, 36 in. Welded	Archived 02/23/2007 via C-10467
S-2022	Refrigerator Car—Brine Valve Operation	Archived 02/23/2007 via C-10467
S-2024	Refrigerator and Power Unit Data	Archived 02/23/2007 via C-10467
S-2026	Plate B—Equipment Diagram for Unrestricted Interchange Service	Archived 7/31/2017 via C-12935
S-2027	Plate B-1—Maximum Width of Cars with Various Truck Centers	Archived 7/31/2017 via C-12935
S-2028	Plate C—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-2029	Plate C-1—Maximum Width of Cars with Various Truck Centers	Archived 7/31/2017 via C-12935
S-203	Coupler, Height Adjustment	Archived 7/20/2023 via C-14187
S-2030	Plate D—Obtaining Maximum Allowable Width of Car, Other Than at Centerline of Car, for Unrestricted (Plate B-1) and Limited (Plates C-1, H-1, J-1, and K-1) Interchange Service	Archived 7/31/2017 via C-12935
S-2031	Plate E—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-2032	Plate F—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935

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DocNo.	Title	Change
S-2040	Plate H—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-2041	Plate H-1—Maximum Width of Cars with Various Truck Centers	Archived 7/31/2017 via C-12935
S-2047	Plate J—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-2048	Plate K—Clearance Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-205	Center Plate—Body Cast Integral	Archived 02/23/2007 via C-10467
S-2051	Plate J1—Maximum Width of Cars withVarious Truck Centers	Archived 7/31/2017 via C-12935
S-2052	Plate K1—Maximum Width of Cars withVarious Truck Centers	Archived 7/31/2017 via C-12935
S-209	Center Plate—Cast Steel or Forged	Archived 02/23/2007 via C-10467
S-210	Center Plate—Gage, 12 in. Diameter	Archived 02/23/2007 via C-10467
S-216	Door Posts and Reinforcements	Archived 02/23/2007 via C-10467
S-218	Door—Box Car End	Archived 02/23/2007 via C-10467
S-221	Safety Appliance—Multi-Level Open or Screened Rack Car	Archived 02/23/2007 via C-10467
S-227	Car—Lumber Sections	Archived 04/16/2007 via C-10467
S-228	Flat Car—Platform Width	Archived 02/23/2007 via C-10467
S-231	Meat Hook—Refrigerator Car	Archived 02/23/2007 via C-10467
S-237	Striker—F Coupler, 24 in. Riveted	Archived 02/23/2007 via C-10467
S-239	Draft Arrangement—E60 Coupler 24 in. Pocket	Renumbered RP-239
	Arrangement E60 Coupler Design 24 5/8 in. Draft	
S-239	Gear Pocket Striker Applied by Welding	Archived 07/18/2024 via C-14398
S-240	Draft Arrangement—E60 Coupler 24 in. Pocket, Former Standard	Archived 02/23/2007 via C-10467
S-241	Draft Arrangement—E67 Coupler 36 in. Pocket	Archived 02/23/2007 via C-10467
S-242	Draft Arrangement—E67 Coupler 36 in. Pocket, Former Standard	Archived 02/23/2007 via C-10467
	Draft Arrangement, E68 Coupler, 24 5/8-in.	
S-243	Pocket	Archived 07/18/2024 via C-14398
	Draft Arrangement, F70 Coupler, 24 5/8-in.	
S-245	Pocket—Striker Applied by Welding	Archived 07/18/2024 via C-14398
S-246	Draft Arrangement—F70 Coupler, 24 in. Pocket (Riveting)	Archived 02/23/2007 via C-10467
S-248	Draft Arrangement—F79 Coupler 36 in. Pocket	Archived 02/23/2007 via C-10467
S-250	Center Filler—Rear Draft Lugs	Renumbered RP-250 02/23/2007 via C-10467
S-251	Bellmouth Striker—FC&F, P/S Thrall	Renumbered RP-251 02/23/2007 via C-10467
S-256	Body Bolster—Center Filler, Tolerances Integral Center Plate	Archived 02/23/2007 via C-10467

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DocNo.	Title	Change
S-257	Body Bolster—Center Filler, Tolerances Die Pressed	Archived 02/23/2007 via C-10467
S-260	Bolster—Body, Center Filler 4 ft 11 in. OH	Archived 02/23/2007 via C-10467
S-261	Bolster—Body, Center Filler 5 ft 5 5/8 in. OH	Archived 02/23/2007 via C-10467
S-262	Bolster—Body, Center Filler 4 ft 11 in. OH	Archived 02/23/2007 via C-10467
S-263	Bolster—Body, Center Filler 5 ft 5 5/8 in. OH	Archived 02/23/2007 via C-10467
S-268	Corner Push Pad and Roping Staple—Hopper	Archived 02/23/2007 via C-10467
S-275	Door—End Door, Auto Box Car	Archived 02/23/2007 via C-10467
S-3003	Side Frame—Column Friction Wear Plate, Application	Archived 08/07/2024 via C-14400
S-3004	Truck Center Plate Liners or Wear Plates	Archived 11/25/2019 via C-13477
S-305	Center Plate Liner, Horizontal and Vertical	Archived 07/14/2011 via C-11472 $$
S-4022	Pipe, Other than Schedule 80 Iron	Archived 04/16/2020 via C-13532
S-5021	Wheel Size and Speed Pickup Axle Identification	Archived 12/02/2016 via C-12763
S-5510	Plate L-Lomotive Diagram for Interchange Service	Archived 7/31/2017 via C-12935
S-5511	Locomotive-Based Top-of-Rail Friction Control	Archived 11/26/13 and again
	Application	8/5/15 via C-12429
S-590	Locomotive Electronics System Architecture	Archived 08/05/2015 via C-12430
S-721	Roller Bearing Manual—Mandatory Instructions and Practices	Archived 05/08/2024 via C-14358
S-722	Roller Bearing Manual—Rules Covering Requirements for Approval of Roller Bearing Shops to Recondition Roller Bearings for Interchange Service	Archived 05/08/2024 via C-14358
S-723	Roller Bearing Manual—Mandatory Minimum Requirements for Roller Bearing Reconditioning Shops—Procedures—Tool Requirements Necessary to Make Roller Bearing Repairs for Interchange Use	Archived 05/08/2024 via C-14358
S-724	Roller Bearing Manual—Information on Amtrak Passenger Car Bearings	Archived 05/08/2024 via C-14358
S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	Archived 05/08/2024 via C-14358
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	Archived 05/08/2024 via C-14358
S-729	Lubrication, Roller Bearing	Archived 03/06/2017 via C-12839
S-730	Lubrication, Center Plates	Archived 03/06/2017 via C-12839
S-731	Lubrication, Doors	Archived 03/06/2017 via C-12839
S-732	Inspection and Lubrication of Bulkheads in Freight Cars	Archived 03/06/2017 via C-12839
S-733	Inspection and Lubricationof Bulkheads in Freight Cars	Archived 03/06/2017 via C-12839
S-734	Lubrication, Tie-Down Devices on Multi-Level Automobile rack and Flatcars	Archived 03/06/2017 via C-12839

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DocNo.	Title	Change
S-736	Inspection and Lubrication, Hand Brakes	Archived 03/06/2017 via C-12839
S-808	Interior Dunnage Equipment—Deck Boards	Archived 02/23/2007 via C-10467
S-809	Standardization of Saddleback Cars	Archived 02/23/2007 via C-10467
S-813	Device for Opening and Closing Side Doors on Boxcars	Archived 02/23/2007 via C-10467
S-814	Portable Bridge Plate for Saddleback Flatcars	Archived 02/23/2007 via C-10467
S-900	Flatcar—Class F	Archived 08/06/2020 via C-13630
S-901	Gondola Car—Class G	Archived 08/06/2020 via C-13630
S-902	Hopper Car—Class H	Archived 08/06/2020 via C-13630
S-903	Special Car—Class L	Archived 08/06/2020 via C-13630
S-904	Caboose—Class N	Archived 08/06/2020 via C-13630
S-905	Refrigerator Car—Class R	Archived 08/06/2020 via C-13630
S-907	Tank Car—Class T	Archived 08/06/2020 via C-13630
S-908	Boxcar—Class X	Archived 08/06/2020 via C-13630
S-909	Maintenance of Way Equipment—Class MW	Archived 08/06/2020 via C-13630
	Cars Equipped with Loading Bars and Movable	
S-911	Bulkheads	Archived 08/06/2020 via C-13630
S-912	Clear Door Opening	Archived 08/06/2020 via C-13630
S-913	Clearance Plates	Archived 08/06/2020 via C-13630
S-914	Metrication Stenciling	Archived 08/06/2020 via C-13630
S-915	Loading Stencil—Refrigerator Car Floor	Archived 08/06/2020 via C-13630

CURRENT CIRCULAR LETTERS

DISCLAIMER

This table lists the Circular Letters that have been issued subsequent to the release of the MSRP specifications, standards, and recommended practices shown in MSRP-A1. This Index Tool is intended to improve accessability to the users. It is the responsibility of the user to ensure that individual MSRP sections reflect interim revisions inplemented via Circular Letter.

Click one of the links below to see the Circular Letters affecting that particular MSRP section.

MSRP-AS	MSRP-E2	MSRP-J	MSRP-M
MSRP-B	MSRP-F	MSRP-K1	MSRP-N
MSRP-C	MSRP-G	MSRP-K2	MSRP-S1
MSRP-C2	MSRP-G2	MSRP-K3	MSRP-S2
MSRP-C3	MSRP-H	MSRP-K4	MSRP-S3
MSRP-D	MSRP-H2	MSRP-K5	MSRP-T1
MSRP-E	MSRP-I	MSRP-K6	MSRP-T3

Section AS Administrative Supplement (2015)

Doc Affected	Date	CL No.	Title
Book	06/17/2014	C-12193	Implementation of Revised AAR Manual of Standards and Recommended Practices Section AS, Administrative Standards Supplement
S-046 S-060	09/30/2015	C-12448	Implementation of Revisions to MSRP Section AS Administrative Standards, Standards S-060 Application for Component Approval Procedure; and S-046 Definitions of Terms for the AAR MSRP.

Section B—Couplers and Freight Car Draft Components (2019) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	07/24/2019	C-13386	Implementation of Revised MSRP Section B, Freight Car Draft Components, 2019
M-921B	08/12/2019	C-13398	Solicitation of Comments for Revisions to MSRP Section B, Freight Car Draft Components, Specification M-921B Cushioning Devices, End-of-Car, Addition of New Requirements
M-921B	05/13/2019	C-13585	Implementation of Revisions to MSRP Section B, Freight Car Draft Components, Specification M-921B Cushioning Devices, End-of- Car. Addition of New Requirements.
M-921B M-921C M-921D M-921E M-921F	06/29/2020	C-13604	Implementation of Revisions to MSRP Section F, Sensors, Standard S-920 AAR Component Identification (CID) Bar Code Standard, and MSRP Section B, Freight Car Draft Components, Cushioning Devices Specifications M-921B-C-D-E-F. Component Tracking.
M-921D	08/07/2023	C-14196	Implementation of Revisions to MSRP Section B, Freight Car Draft Components, Specification M-921D Cushioning Devices, End-of- Car, Motor-Vehicle-Carrying. Addition of New Requirements

Section B—Couplers and Freight Car Draft Components (2019) (page 2 of 2)

Doc Affected	Date	CL No.	Title
M-901E M-901G	08/07/2023	C-14199	Implementation of Revisions to MSRP Section B, Freight Car Draft Components, Specifications M-901E and M-901G Draft Gear Requirements, in regard to extending the limits of travel
M-921B M-921C M-921D M-921E M-921F M-921G M-921H	07/18/2024	C-14399	Implementation of Revisions to MSRP Section B FREIGHT CAR DRAFT COMPONENTS, Specification M-921H, Cushioning Devices, End-of-Car, General Requirements, addition of requirements for end-of-car cushioning devices. Updates to M- 921B, C, D, E, F, and G
S-270	07/18/2024	C-14398	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, New Standard "S-2057 Draft Arrangements, 24 5/8-in. Pocket"; retirement of S-239, S-243, and S-245; edits to S-236, S-238, S- 270
M-902 RP-906	08/08/2024	C-14410	Implementation of Revisions to MSRP Section B, FREIGHT CAR DRAFT COMPONENTS, New Publications M-902 End-of-Car Energy Management Systems and RP-906 Methodology: Multi-Car Drifting Simulations

Section C—Car Construction—Fundamentals and Details (2014) (page 1 of 2)

Doc Affected	Date	CL No.	Title	
Book	09/24/2020	C-13653	Implementation of Revised MSRP Section C, Car Construction Fundamentals and Details, 2020	
S-910	03/22/2022	C-13941	Implementation of Editorial Revisions to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-910 Marking of Freight Cars, regarding update to font	
S-2045	07/19/2022	C-14001	Implementation of Revisions to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-2045 Remote Monitoring Equipment, Installation. Revision of requirements	
S-286	12/29/2022	C-14096	Implementation of Revisions to MSRP Section C Part II, M-1001 Design, Fabrication, and Construction of Freight Cars, and Section C Standard S-286. Freight car and draft pocket design requirements	
S-203	07/20/2023	C-14187	Implementation of Retirement to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-203, Coupler, Height Adjustment	
S-910 M-800 M-801	08/07/2023	C-14198	Implementation of Editorial Revisions to MSRP Section C, Car Construction Fundamentals and Details, Standard S-910 and Specifications M-800 and M-801, edits relative to marking of multiple unit cars, autoracks, and certain hopper cars	
RP-2018	10/11/2023	C-14226	Implementation of Revisions to MSRP Section C, Car Construction Fundamentals ans Details, RP-2018 Handholds, Steps, and Ladders for Interior Access - New guidance for safety appliances located below the coupler shank	

Doc Affected	Date	CL No.	Title
S-213	01/29/2024	C-14302	Implementation of Revisions to MSRP Section C, Car Construction Fundamentals ans Details, Standard S-213, Side Door and Door Frames, Boxcar - Plug Type, Revision to the water test fixture requirements
S-2043	04/12/2024	C-14336 Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard 2043, Performance Specification for Trains Used to Carry High Level Radioactive Material. Assorted edits to requirements.	
S-2056	04/25/2024	C-14338	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S- 2056, Clearance Plate Diagrams for Interchange Service: Plates H, K, and P
S-2057 S-239 S-243 S-245 S-236 S-238	07/18/2024	C-14398	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, New Standard "S-2057 Draft Arrangements, 24 5/8-in. Pocket"; retirement of S-239, S-243, and S-245; edits to S-236, S-238, S- 270
M-968	08/08/2024	C-14411	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Specification M-968, Design Requirements for Rigid Open-Top Freight Car Covers, implementation of new specification

Section C—Car Construction—Fundamentals and Details (2014) (page 2 of 2)

Section C-II—Specifications for Design, Fabrication, and Construction of Freight Cars, M-1001 (2015)

Doc Affected	Date	CL No.	Title
Book	11/15/2023	C-14266	Implementation of Revised AAR Manual of Standards and Recommended Practices Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars

Section C-III—Specifications for Tank Cars, M-1002 (2014)

Doc Affected	Date	CL No.	Title
Book	05/01/2024	CPC-1425	Publication of 2024 AAR MSRP C-III (M-1002)

Section D—Trucks and Truck Details (2019)

Doc Affected	Date	CL No.	Title
Book	10/25/2024	C-11443	Implementation of Revised AAR Manual of Standards and Recommended Practices Section D, Trucks and Truck Details Manual

CIRCULAR LETTERS

Section E-	-Brakes and	Brake E	quipment	(2019)

Doc Affected	Date	CL No.	Title	
Book	02/20/2019	C-13284	Implementation of Revised MSRP Section E, Brakes and Brake Equipment, 2019	
S-461 S-462 S-463 S-464	08/28/2019	C-13401	13401 Implementation of Editorial Revisions to MSRP Section E—Brake and Brake Equipment, Standards: S-461, S-462, S-463, and S-46 to Better Clarify the Purpose of the Test Rack Standards—Revise August 30, 2019	
S-475	09/19/2019	C-13414	Implementation of Revisions to MSRP Section E—Brakes and Brake Equipment, S-475, Hand Brakes, Sheave and Chain Connector Clarification	
S-4022	04/16/2020	C-13532	Implementation of Retirement of MSRP Section E, Standard S- 4022 – Pipe, other than Schedule 80 Iron	
S-401	08/03/2020	C-13626	Implementation of Editorial Revisions to MSRP Section E – Brakes and Equipment, Standard S-401, Brake Design Requirements. Hand brake marking requirements have been removed.	
S-402	08/03/2020	C-13625	Implementation of Editorial Revision to MSRP Section E – Brakes and Brake Equipment, Standard S-402, Welding of Air Brake Pipe and Fittings For Railroad Cars – Welding Procedure Clarification	
S-602	11/28/2023	C-14280	Implementation of Editorial Revision to MSRP Section E – Brakes and Brake Equipment, Specification S-602, Gaskets, Air Hose, updates, and additions	
S-475	03/01/2024	C-14317	Implementation of Revisions to MSRP Section E, Brakes and Brake Equipment, Standard S-475, Hand Brakes, Editorial Corrections to Dimensions	
S-4031	03/01/2024	C-14318	Implementation of Revisions to MSRP E, Brakes and Brake Equipment, S-4032, Trainline Arrangement For Cars With E/F-Type Couplers And Draft System Buff Travel Of 6 To 10 Inches	
S-4032	03/01/2024	C-14319	Implementation of Revisions to MSRP Section E, Brakes and Brake Equipment, New Standard S-4031, Trainline Arrangement For Cars With E-Type Couplers And With Draft System Buff Travel Of 6 To 10 Inches	

Section E-II—Electronically Controlled Brake Systems (2014)

Doc Affected	Date	CL No.	Title
Book	08/07/2014	C-12225	Implementation of Revised AAR MSRP Section E-II, Electronically Controlled Brake Systems

Section F—Sensors (2012) (page 1 of 3)

Doc Affected	Date	CL No.	Title
Book	04/10/2020	C-13527	Implementation of Revised MSRP, Section F - Sensors

Section F—Sensors (2012) (page 2 of 3)

Doc Affected	Date	CL No.	Title
S-920	06/29/2020	C-13604	Implementation of Revisions to MSRP Section F, Sensors, Standard S-920 AAR Component Identification (CID) Bar Code Standard, and MSRP Section B, Freight Car Draft Components, Cushioning Devices Specifications M-921B-C-D-E-F. Component Tracking.
S-6102	07/20/2020	C-13613	Implementation Circular for Additions to MSRP, Section F – Sensors: Standard S-6102, Wayside Passing Data Format.
S-920	11/05/2020	C-13695 C-13696	Implementation Circular: Revisions to MSRP Section F, SENSORS S-920 AAR Component Identification Bar Code Standard Modifications to Section 17 – Emergency Brake Valve Portion CID Labels and Section 18 – Service Brake Valve Portion CID Labels. Implementation Circular: Revisions to MSRP Section F, Sensors, S 920 AAR Component Identification - Bar Code Standard / Addition
S-920	03/10/2021	C-13754	of Data Glossary Elements for Side Frames and Bolsters Additions to MSRP Section F, SENSORS S-920 AAR Component Identification Bar Code Standard: Tank Car Service Equipment: Pressure Relief Valves (PRV)
S-6000 S-6001 S-6002 S-6003 S-6004 S-6005 S-6006 S-6008 S-6009 S-6021 S-6102 S-6102 S-6103 S-6200	05/26/2021	C-13821	Implementation of Editorial Updates to MSRP, Section F, Sensors Multiple Standards
S-6101	06/02/2021	C-13822	Implementation Circular: MSRP Section F, Sensors, Standard S- 6101, Detector Calibration & Validation Requirements: Wheel Impact Load Detector (WILD) Validation Plan
S-920	06/04/2021	C-13823	Implementation of Editorial Updates to MSRP, Section F, S-920, Component Identification Bar Code Standard
S-920	06/08/2021	C-13824	Implementation of Additional/Corrected Editorial Updates to MSRF Section F,S-920, Component Identification Bar Code Standard
S-920	07/06/2021	C-13833	Implementation Circular: MSRP Section F, Sensors, Standard S- 920, Component Identification Bar Code Standards / Sections 12 & 13
S-6101	01/11/2022	C-13925	Implementation Circular: MSRP Section F, Sensors, Standard S- 6101, Detector Calibration & Validation Requirements: Acoustic Bearing Detector (ABD) Validation Standards
S-920	06/30/2022	C-13998	Implementation: Revisions to MSRP F, Sensors, S-920, Component Identification Bar Code Standard - Section 10 Wheel Set CID Labels

Section F—Senso	rs (2012)	(page 3 of 3)
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Doc Affected	Date	CL No.	Title
S-6103	08/30/2022	C-14018	Implementation: Revisions to MSRP F, Sensors, S-6103 Wheel Profile Detector - Section 5.0 Measurement Standards
S-6008	09/26/2022	C-14026	Implementation Circular: Revisions to MSRP F, Sensors, S-6008 Data Summary - Salient Wheel Impact
S-920	10/11/2022	C-14031	Informational: Implementation of Editorial Modifications to S-920 Appendices A-H (Registered Component Data Glossaries)
S-6101	12/05/2022	C-14084	Implementation Circular: MSRP Section F, Sensors, Standard S- 6101, Detector Calibration & Validation Requirements: Archived WILD Validation Standards
S-920	01/03/2023	C-14097	Implementation Circular: MSRP Section F, Sensors, Standard S- 920, Component Identification Bar Code Standards / Appendix D - Coupler Body Data Glossary
S-6101	11/28/2023	C-14278	Implementation Circular: MSRP Section F, Sensors, Standard S- 6101, Detector Calibration & Validation Requirements - Acoustic Bearing Detector (ABD) Fault Descriptor Validation
S-6001	11/29/2023	C-14282	Implementation Circular: MSRP Section F, Sensors, Standard S- 6001, Bearing Temperature Performance
S-6101	04/09/2024	C-14334	Implementation Circular and Modification to Circular C-14331: Revisions to MSRP F, Sensors, S-6101 Detector Calibration & Validation Requirements / ABD Site Current Validations
S-6101	06/13/2024	C-14383	Implementation Circular: Revisions to MSRP F, Sensors, S-6101 - Detector Calibration & Validation Requirements / ABD Site Current Validations
S-6101	08/29/2024	C-14414	Implementation Circular: Revisions to MSRP F, Sensors, S-6101 - Detector Calibration & Validation Requirements / ABD Site Current Validations
S-6101	10/17/2024	C-14426	Implementation Circular: Revisions to MSRP F, Sensors, S-6101 - Detector Calibration & Validation Requirements / ABD Site Current Validations

Section G—Wheels and Axles (2016)

Doc Affected	Date	CL No.	Title
Book	09/29/2020	C-13654	Implementation of Revised MSRP Section G, Wheel and Axles, 2020

Section G-II—Wheel and Axle (Shop) Manual (2019)

Doc Affected	Date	CL No.	Title
Book	10/25/2022	C-14039	Implementation of Revised MSRP Section G-II, Wheel and Axle Manual, 2022

Doc Affected	Date	CL No.	Title
Book	04/29/2021	C-13785	Implementation of Revised MSRP Section H, Journal Bearings and Lubrication, 2021

Section H—Journal Bearings and Lubrication (2021)

Section H-II—Roller Bearing (Shop) Manual (2017)

Doc Affected	Date	CL No.	Title
Book	05/08/2024		Implementation of Revised MSRP Section H-II, Roller Bearing Manual, 2024

Doc Affected	Date	CL No.	Title
Book	08/01/2018	C-13180	Implementation of Revised MSRP Section I, Intermodal Equipment Manual, 2018
M-930 M-931 M-998 RP-853	04/19/2019	C-13310	Implementation of Revisions to MSRP Section I, Intermodal Equipment Manual, M-930, M-931, M-998, RP-853, Appendix E CSU Testing, Lift Pad, and IBC Tension Testing
RP-853	10/12/2022	C-14032	Implementation of Revisions to MSRP Section I, Intermodal Equipment Manual, Recommended Practice RP-853, Trailer Skirt
S-9080.V4.0	10/19/2022	C-14036	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Architecture and Concepts of Operations, Standard S-9080.V4.0
M-998	12/20/2022	C-14094	Implementation of Revisions to MSRP Section I, Intermodal Equipment Manual, M-998, IBC Handle Requirement

Section I—Intermodal Equipment Manual (2018)

Section J—Specificati	on for Ouality A	ssurance, M-1003 (2019)

Doc Affected	Date	CL No.	Title
Book	02/01/2024		Implementation of Revision to AAR MSRP Section J, Specification for Quality Assurance M-1003

Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014) (page 1 of 3)

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
S-9053.V1.0	08/08/2014	C-12229	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, S- 9053 Positive Train Control ITC System Requirements–Level 0

Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014) (page 2 of 3)

Doc Affected	Date	CL No.	Title
S-9054.V1.0	08/08/2014	C-12230	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, S- 9054 Positive Train Control ITC System Requirements–Level 1
S-9053.V2.0	12/07/2018	C-13252	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Positive Train Control ITC System Requirements - Level 0, Standard S-9053.V2.0
S-9054.V2.0	12/07/2018	C-13253	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concepts of Operations, Positive Train Control ITC System Requirements - Level 1, Standard S-9054.V2.0
S-9010.V1.0	07/24/2019	C-13385	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Data Protection, Standard S-9010.V1.0
S-9080.V1.0	10/17/2019	C-13422	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V1.0
S-9080.V2.0	09/30/2020	C-13655	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V2.0
S-9074.V1.0	11/05/2020	C-13694	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9074.V1.0
S-9081.V1.0	12/18/2020	C-13726	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.0
S-9058.V1.0	01/19/2021	C-13736	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9058.V1.0
S-9081.V1.1	02/26/2021	C-13749	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.1
S-9081.V1.2	03/08/2021	C-13753	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.2
S-9076.V1.0	08/17/2021	C-13841	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9076.V1.0
S-9075.V1.0	07/19/2022	C-14003	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9075.V1.0
S-9080.V3.0	08/05/2022	C-14009	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9080.V3.0

Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014) (page 3 of 3)

Doc Affected	Date	CL No.	Title
S-9008.V1.0	04/05/2024	C-14333	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9008.V1.0
S-9080.V5.0	06/24/2024	C-14388	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP). Section K-I Railway Electronics Architecture and Concepts of Operations. Standard S-9080.V5.0

Section K-II—Locomotive Electronics and Train Consist System Architecture (2014) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
M-9154B.V1.0	01/23/2015	C-12326	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-II, Locomotive Electronics and Train Consist Architecture, Intra-Consist Communications (ICC) Layer 2, M-9154B.V1.0.
M-9155.V2.0	05/19/2015	C-12384	Railway Electronics Standards Committee, Specification M-9155.V2.0—Locomotive Command and Control Module (LCCM)—Functional Requirements
M-9155.V.2.1	11/2/2015	C-12465	New Circular Letter Release: Implementation of Revision to MSRP, Section K-II, Specification M-9155.V.2.1 - Locomotive Command and Control Module (LCCM) Functional Requirements
M-9155.V2.2	08/23/2016	C-12704	New Circular Release: Implementation of Changes to MSRP, Section K-II, Specification M-9155.V2.2, Locomotive Command and Control Module (LCCM) – Functional Requirements.
S-9101E.V1.1	09/30/2016	C-12716	New Circular Letter Release: Implementation of Changes to MSRP, Section K-II, Specification S-9101E.V1.1—Locomotive System Integration Communications
S-9152.V2.2	09/30/2016	C-12717	New Circular Letter Release: Implementation of Changes to MSRP, Section K-II, Standard S-9152.V2.2—End-of-Train Communications
S-9101.V1.1	11/03/2016	C-12730	New Circular Release: Implementation of Changes to the MSRP, Section K-II, Standard S-9101.V1.1—Locomotive Electronics System Architecture (LESA) and Appendix F— Locomotive Interface Gateway (LIG)
S-9101C.V1.0	07/13/2018	C-13170	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Loco Electronics & Train Consist System Architecture, Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor, Standard S-9101C.V1.0
S-9101G.V1.0	07/13/2018	C-13171	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics & Train Consist System Architecture, Locomotive Data Acquisition and Recording System (LDARS) - Common File Format Standard, Standard S-9101G.V1.0

Section K-II—Locomotive Electronics and Train Consist System Architecture (2014) (page 2 of 2)

(2014) (page 2 01 2)				
Doc Affected	Date	CL No.	Title	
M-9155.V2.3	10/04/2018	C-13204	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements, Specification M- 9155.V2.3	
M-9155.V2.4	08/30/2019	C-13402	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements Specification M-9155.V2.4	
S-9101.V1.2	08/30/2019	C-13403	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Electronics System Architecture Standard S-9101.V1.2	
S-9101.V1.2	08/30/2019	C-13404	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Standard S-9101 Appendix F	
M-9155.V2.4.1	09/10/2021	C-13851	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.4.1.	
S-9103.V1.0	10/25/2021	C-13860	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9103.V1.0	
M-9155.V2.5	12/20/2021	C-13918	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.5	
S-9101 Appendix F.V1.2	09/21/2022	C-14025	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101 Appendix F V1.2	
S-9101.V1.2.1	12/16/2022	C-14090	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101.V1.2.1	
S-9102.V1.0	12/16/2022	C-14091	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9102.V1.0	

Section K-III—Wayside Electronics and Mobile Worker Communications Architecture (2014) (page 1 of 2)

Doc AffectedDateCL No.TitleBook08/01/2014C-12211New Release of Railway Electronics Standards Sections K-I
through K-VIS-9203.V1.104/27/2020C-13547Implementation of AAR Manual of Standards and Recommended
Practices(MSRP), Section K-III Office Architecture and Railroad
Electronics Messaging, Standard S-9203.V1.1

Section K-III—Wayside Electronics and Mobile Worker Communications Architecture (2014) (page 2 of 2)

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Doc Affected	Date	CL No.	Title
S-9203A.V1.1	04/27/2020	C-13549	Implementation of AAR Manual of Standards and Recommended Practices (MSRP), Section K-III Office Architecture and Railroad Electronics Messaging, Standard S-9203A.V1.1

Section K-IV—Office Architecture and Railroad Electronics Messaging (2014) (page 1 of 3)

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
S-9371.V1.0	11/25/2014	C-12299	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, PTC Onboard Segment— Energy Management Interface Control Document (ICD), S-9371.V1.0
S-9372.V1.0	11/25/2014	C-12300	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, PTC Back Office Segment— Energy Management Interface Control Document (ICD), S-9372.V1.0
S-9364.V1.1	06/05/2015	C-12399	Railway Electronics Standards Committee, Standard S- 9364.V1.1—I-ETMS Onboard Segment Data Distribution Messages Interface Control Document (ICD)
S-9372.V1.1	06/06/2016	C-12652	New Circular Release: Implementation of Changes to MSRP, Section K-IV, Standard S-9372.V1.1—PTC Back Office Segment— Energy Management Interface Control Document (ICD)
S-9361.V1.2	07/05/2016	C-12681	New Circular Release: Implementation of Changes to MSRP, Section K-IV, Standard S-9361.V1.2, Positive Train Control Office— Locomotive Segment—Interface Control Document (ICD)
S-9376.V1.0	10/19/2016	C-12725	New Circular Release: Implementation of New Standard in MSRP, Section K-IV, Standard S-9376.V1.0—Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)
S-9364.V2.0	01/18/2017	C-12786	New Circular Letter Release, S-9364.V2.0—I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD), In Support of AAR Manual of Standards and Recommended Practices (MSRP), Section K-4, Railway Electronics Messaging Stand
S-9361.V2.0	06/28/2018	C-13165	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, Positive Train Control (PTC) Office—Locomotive Segment—Interface Control Document (ICD), Standard S- 9361.V2.0
S-9372.V2.0	06/28/2018	C-13166	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, PTC Back Office Segment-Energy Management Interface Control Document (ICD), Standard S-9372.V2.0

Section K-IV—Office Architecture and Railroad Electronics Messaging (2014) (page 2 of 3)

Doc Affected	Date	CL No.	Title
S-9375.V1.0	07/23/2018	C-13174	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, Centralized Train Control (CTC) Over Interoperable Train Control Mgmt (ITCM)-Interface Control Document, Standard S-9375.V1.0
S-9452.V2.0	10/08/2018	C-13205	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, ITCSM Common Data Dictionary for Interoperable Train Control Standard S-9452.V2.0
S-9354.V2.0	10/30/2018	C-13221	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Edge Message Protocol Standard S- 9354.V2.0.
S-9371.V2.0	10/30/2018	C-13222	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, PTC Onboard Segment-Energy Management Interface Control Document (ICD) Standard S- 9371.V2.0
S-9356.V2.0	10/30/2018	C-13223	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Class D Messaging Standard S-9356.V2.0
S-9379.V1.0	12/7/2018	C-13251	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Requirements For Using An ITC EMP Application Gateway, Standard S-9379.V1.0
S-9357.V1.0	06/28/2019	C-13371	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Mutually Authenticated Key Exchange, Standard S-9357.V1.0
S-9358.V1.0	06/28/2019	C-13372	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Anonymous Key Exchange, Standard S-9358.V1.0
S-9359.V1.0	06/28/2019	C-13373	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and railroad Electronics Messaging, Interoperable Certificate Revocation Responder Service, Standard S-9359.V1.0
S-9365.V3.0	08/11/2019	C-13395	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and RR Electronics Messaging, Locomotive Interface Gateway (LIG) Positive Train Control (PTC) Interface Control Document (ICD), Standard S-9365.V3.0
S-9353.V1.0	08/11/2019	C-13394	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-IV Office Architecture and Railroad Electronics Messaging, Railroad Electronics Standards Committee (RESC) Data Dictionary, S-9353.V1.0

Section K-IV—Office Architecture and Railroad Electronics Messaging (2014) (page 3 of 3)

Doc Affected	Date	CL No.	Title
S-9361.V3.0	10/14/2020	C-13657	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9361.V3.0
S-9371.V3.0	04/05/2021	C-13765	Implemented. AAR Manual of Standard and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9371.V3.0
S-9378.V1.0	04/22/2021	C-13781	Implemented. AAR Manual of Standards and Recommended Practices, Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9378.V1.0
S-9353.V1.1	12/20/21	C-13916	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9353.V1.1
S-9361.V3.1	12/20/2021	C-13917	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9361.V3.1
S-9382.V1.0	07/19/2022	C-14002	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9382.V1.0
S-9371.V4.0	08/25/2022	C-14012	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9371.V4.0
S-9370.V.1.0	08/26/2022	C-14014	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9370.V.1.0
S-9355.V2.0	08/26/2022	C-14015	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9355.V2.0
S-9355 Appx A V1.0	08/26/2022	C-14016	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9355 Appendix A V1.0
S-9362.V2.0	07/19/2023	C-14182	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9362.V2.0
S-9372.V3.0	09/08/2023	C-14210	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, S-9372.V3.0
S-9363.V1.1	01/29/2024	C-14305	IMPLEMENTED. AAR Manual of Standard and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9363.V1.1

Section K-V—Electronics Environmental Requirements and System Management (2014) (page 1 of 2)

Date	CL No.	Title
06/28/2018	C-13167	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-5 Electronics Environmental Requirements & Systems Management, ITCSM Interface Control Document for Interoperable Train Control, Standard S-9460.V1.0
08/16/2021	C-13839	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9452A.V2.0
08/17/2021	C-13840	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9451A.V2.0
08/17/2021	C-13842	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard RP-9457.V2.0
07/19/2023	C-14183	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-5 Electronics Environmental Requirements and Systems Management, Standard S-9417.V1.0
09/08/2023	C-14208	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9419.V1.0
02/20/2024	C-14310	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9410.V1.0
02/20/2024	C-14311	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9411.V1.0
02/20/2024	C-14312	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9412.V1.0
02/20/2024	C-14313	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9414.V1.0
03/08/2024	C-14322	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9421.V1.0
03/28/2024	C-14329	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9418.V1.0
04/12/2024	C-14335	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9415.V1.0
05/07/2024	C-14357	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9416.V1.0
07/12/2024	C-14397	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9420.V1.0
	06/28/2018 08/16/2021 08/17/2021 08/17/2021 03/08/2023 02/20/2024 02/20/2024 02/20/2024 02/20/2024 02/20/2024 03/08/2024 03/08/2024	06/28/2018 C-13167 08/16/2021 C-13839 08/17/2021 C-13840 08/17/2021 C-13842 07/19/2023 C-14183 09/08/2023 C-14310 02/20/2024 C-14310 02/20/2024 C-14312 02/20/2024 C-14312 02/20/2024 C-14312 02/20/2024 C-14322 03/08/2024 C-14329 04/12/2024 C-14335 05/07/2024 C-14357

Section K-V—Electronics Environmental Requirements and System Management (2014) (page 2 of 2)

Doc Affected	Date	CL No.	Title
S-9452.V3.1	10/07/2024	C-14421	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9452.V3.1

Section K-VI—Railway Electronics Data Management and Communications (2014) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
S-9555.V1.1	06/10/2015	C-12401	New Circular Release: Implementation of Changes to MSRP, Section K-VI, Standard S-9555.V1.1, Railroad Use of IEEE 802.1X and DHCP Services in Support of 802.11 Interoperability.
S-9501.V2.0	07/24/2015	C-12426	New Circular Release: Implementation of Changes to MSRP, Section K-VI, Standard S-9501.V2.0—Positive Train Control Data Model Definition
S-9503.V2.0	08/13/2015	C-12427	New Circular Release: Implementation of Changes to MSRP, Section K-VI, Standard S-9503.V2.0 - Interoperable Electronic Train Management System (I-ETMS) Subdivision File
S-9557.V1.0	12/15/2015	C-12537	New Circular Letter Release: Implementation of New Standard within MSRP, Section K-VI, Standard S-9557.V1.0—Interoperable Train Control (ITC) Radio Identification Format.
S-9501.V3.0	10/30/2018	C-13224	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Positive Train Control Data Model Definition, Standard S-9501.V3.0
RP-9511.V2.0	05/15/2019	C-13332	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communication, Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation, Recommended Practice RP-9511.V2.0
S-9502.V1.0	06/26/2020	C-13602	Implemented. AAR Manual of Standards and Recommended Practices (MSRP),Section K-VI Railway Data Management and Communications, Standard S-9502.V1.0
S-9502.V1.1	10/29/2020	C-13671	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9502.V1.1
S-9558.V1.0	03/31/2021	C-13763	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, S-9558.V1.0
S-9503.V3.0	12/16/2022	C-14087	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standards S-9503.V3.0
S-9504.V1.0	07/19/2023	C-14184	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-VI Railway Data Management and Communications, Standard S-9504.V1.0

Section K-VI—Railway Electronics Data Management and Communications (2014) (page 2 of 2)

Doc Affected	Date	CL No.	Title
S-9502.V2.0	03/08/2024	C-14323	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9502.V2.0
S-9501.V4.0	06/24/2024	C-14389	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9501.V4.0
S-9501 Appendix A. V1.0	06/24/2024	C-14390	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9501 Appendix A.V1.0

Section M—Locomotives and Locomotive Interchange Equipment (2008)

Doc Affected	Date	CL No.	Title
Book	11/24/2020	C-13710	Implementation of Revised MSRP Section M, Locomotives and Locomotive Interchange Equipment, 2020
RP-545	01/04/2021	C-13731	Implementation of Retirement of MSRP Section M, Recommended Practice – RP-545 Testing Electrical Components
S-5512	02/22/2021	C-13745	Implementation of Retirement and Archival of AAR MSRP Section M - Standard S-5512 – Locomotive Event Recorder Download Standard
S-5513	11/03/2021	C-13880	Implementation of Revisions to the Manual of Standards and Recommended Practices (MSRP), Section M, Locomotives and Locomotive Interchange Equipment: Standard S-5513 – Locomotive Alerter Requirements
RP-589	04/25/2022	C-13966	Implementation of Proposed Revisions to MSRP, Section M, Recommended Practice - RP-589, Rating for Specific Fuel Consumption of Diesel Electric Locomotives
M-1005	10/12/2022	C-14030	Implementation of Revisions to MSRP, Section M Locomotives and Locomotive Interchange Equipment, Specification M-1005 Locomotive Electronics Safety Assessments and Analyses
M-915	04/07/2023	C-14119	Implementation of a New Specification to MSRP, Section M, Locomotives and Locomotive Interchange Equipment: Specification M-915 - Quality Assurance Requirements for Locomotives and Locomotive Components
RP-5209	05/20/2024	C-14373	Implementation of Retirement and Archival of AAR MSRP Section M - Recommended Practice - RP-5209 BASIC BRAKE DESIGN DATA FOR FREIGHT LOCOMOTIVES
RP-509	10/28/2024	C-14444	Implementation of Revisions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Recommended Practice RP-509 - BRAKING RATIOS FOR LOCOMOTIVES

Doc Affected	Date	CL No.	Title
Book	05/08/2023	C-14144	Implementation of Revised AAR Manual of Standards and Recommended Practices Section N, Multi-Level Manual
M-950	12/20/2023	C-14291	Implementation of Revision to MSRP Section N, Specification M- 950, Universal Wide-Body Tri-Level Fully-Enclosed Auto Rack Car (Low Deck)
M-950A	12/20/2023	C-14292	Implementation of Revision to MSRP Section N, Specification M- 950A, Universal Wide-Body Bi-Level Fully-Enclosed Auto Rack Car
M-970	12/20/2023	C-14289	Implementation of Revisions to MSRP Section N, Specification M- 970, Condition-Based Certification of Multi-Level Auto Rack Cars
M-992	07/10/2024	C-14396	Implementation of Revision to MSRP Section N, Specification M- 992, Designated Satellite Shop Repair for Multi-Level Auto Rack Cars

Section N—Multi-Level Manual (2017)

Section S-I—Casting Details (2021) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	10/05/2021	C-13852	Implementation of Revised MSRP Section S, Casting Details, 2021
M-211	03/29/2022	C-13945	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-211, Foundry and Product Approval Requirements for the Manufacture of Couplers, Coupler Yokes, Knuckles, Follower Blocks, and Coupler Parts
M-220	03/29/2022	C-13944	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-220, Casting Component Nondestructive Testing Requirements, regarding updates to NDT requirements
M-201	04/03/2023	C-14118	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-201, Castings Steel, Regarding Changes to Section 4.0
M-212	04/14/2023	C-14120	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-212, Couplers and Yokes, Secondhand- Classification and Reconditioning Procedure, regarding EF coupler butt reconditioning, hardness testing, and a new lug gage
M-214	04/14/2023	C-14121	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-214, Side Frames and Bolsters Used and Reconditioned - Classification and Repair Procedure, regarding updates to marking and OEM Manuals
M-205 M-211 M-216	07/20/2023	C-14188	Implementation of Revisions to MSRP Section S, Casting Details, Specifications M-205, M-211, and M-216, regarding component testing and approval
M-214	03/08/2024	C-14321	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-214, Side Frames and Bolsters Used and Reconditioned, regarding unit guide modifications and repair of bolster pocket top extensions
M-201	03/22/2024	C-14328	Implementation of Revisions to MSRP Section S-I, CASTING DETAILS, Specification M-201, Castings Steel, regarding updates to sections 5.0 (Heat Treatment) and 6.0 (Chemical Properties and Tests)

Section S-I—Casting Details (2021) (page 2 of 2)

Doc Affected	Date	CL No.	Title
M-212A	03/22/2024	C-14327	Implementation of Revisions to MSRP Section S-I, CASTING DETAILS, Specification M-212, Couplers And Yokes, Secondhand- Classification And Reconditioning Procedure, and implementation of new Specification M-212A for coupler/draft system related parts
M-210	07/27/2024	C-14401	Implementation of Revisions to MSRP Section S-I, CASTING DETAILS, Specification M-210, Side Frame and Bolsters AAR Approved - Purchase and Acceptance, regarding Audit Quality Task Force updates
M-203	07/27/2024	C-14402	Implementation of Revisions to MSRP Section S-I, CASTING DETAILS, Specification M-203, Truck Side Frames Cast Steel - Design and Testing, regarding load range and use of stabilizing vertical preloads

Section S-II—Truck Details and Casting Codes (2019)

Doc Affected	Date	CL No.	Title
Book	02/15/2019	C-13281	Implementation of Revised MSRP Section S-II, Truck Details and Casting Codes, 2019

Section S-III—Coupler and Yoke Dimensions (2016)

Doc Affected	Date	CL No.	Title
Book	11/12/2020	C-13701	Implementation of Revised MSRP Section S-III, Coupler and Yoke Details, 2020
S-105	06/22/2021	C-13826	Implementation of Revisions to MSRP Section S-III, Coupler and Yoke Details, Standard S-105, Coupler E Type Detail Parts, regarding making reduced slack components standard
S-102 S-103 S-163	10/09/2024	C-14424	Implementation of Revisions to MSRP Section S-III, COUPLER AND YOKE DETAILS, Standards S-102, S-103, and S-163, regarding MSRP references and coupler butt dimensions and tolerances for E60EE, SBE60EE, and SE60EE couplers
S-103	10/24/2024	C-14431	Implementation of Editorial Revisions to MSRP Section S-III, COUPLER AND YOKE DETAILS, Standard S-103, Coupler E Type Top and Bottom Shelf SE60EE, Restoring missing text

Section T-I—Interoperable Fuel Tenders for Locomotives (2023)

Doc Affected	Date	CL No.	Title
Book	05/05/2023	C-14143	Implementation of New MSRP Section T-I, Interoperable Fuel Tenders for Locomotives, 2023

Do Affec	-	Date	CL No.	Title
Book		05/05/2023		Implementation of New MSRP Section T-III, Interchange Standards for Fuel Tender Components, 2023

Section T-III—Interchange Standards for Fuel Tender Components (2023)