

Association of American Railroads

SAFETY AND OPERATIONS

**MANUAL OF STANDARDS
AND
RECOMMENDED PRACTICES
SECTION A, PART I**

TABLES OF CONTENT

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

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MSRP-A1 INDEX	The MSRP-A1 Table of Contents is an inclusive index of all MSRP specifications, standards, and recommended practices. It is available online at http://www.aar.com/standards/publications.html . This easy-to-access document is a convenient way to quickly identify in which manual a specific document resides. The index is updated weekly, enabling the user to see in "real-time" which documents have been updated via Circular Letter.
MSRP-AS ADMINISTRATIVE STANDARDS SUPPLEMENT	MSRP-AS serves as a supplement to all MSRP sections and is available as a free download at http://www.aar.com/standards/publications.html . All users are governed by the administrative standards in MSRP-AS in addition to the standards and specifications in each section of the <i>Manual of Standards and Recommended Practices</i> .
TECHNICAL QUESTIONS	For technical questions regarding this manual, use the email address appropriate to this manual from the following list.

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MSRP Email Address Contact List for Technical Questions	
Section A - Part I - Table of Contents	publications@aar.com
Section AS - Administrative Standards Supplement	eec@aar.com
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Section S - Casting Details	cstcc@aar.com
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Section S Part III - Coupler and Yoke Details	cstcc@aar.com
Section T - Interoperable Fuel Tenders for Locomotives, M-1004	locomotive@aar.org

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TO THE USER

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-29.
3. Locate a document by searching a particular section in the Section Index on page A-I-55.

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 accessibility 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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PREFACE

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.

The manual is composed of the following sections:

- Section AS—Administrative Standards Supplement serves as a supplement to all *MSRP* sections (this is available as a free download at <http://www.aar.com/standards/publications.html>)
- Section A—Table of Contents, Alphabetical and Numerical Index of Sections B through S inclusive (this is available as a free download at <http://www.aar.com/standards/publications.html>)
- Section B—Freight Car Draft Components (100 Series)
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- Section C, Part III—Specifications for Tank Cars, M-1002
- Section D—Trucks and Truck Details (300 and 3000 Series)
- Section E—Brakes and Brake Equipment (300, 400, 3000, and 4000 Series)
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- Section F—Sensors
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- Section H—Journal Bearings and Lubrication (700 Series)
- Section H, Part II—Roller Bearing [Shop] Manual (700 Series)
- Section I—Intermodal Equipment Manual
- Section J—Specification for Quality Assurance, M-1003
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- Section K, Part IV—Office Architecture and Railroad Electronics Messaging (9300 Series)
- Section K, Part V—Electronics Environmental Requirements and System Management (9400 Series)
- Section K, Part VI—Railway Data Management and Communications (9500 Series)
- Section M—Locomotives and Locomotive Interchange Equipment (500 and 5000 Series)
- Section N—Multi-Level Manual (800 Series)
- Section S—Casting Details
- Section S, Part II—Truck Details and Casting Codes (300 and 3000 Series)
- Section S, Part III—Coupler and Yoke Details (100 Series)
- Section T—Interoperable Fuel Tenders for Locomotives

Specifications are designated with an “M” prefix (e.g., M-900). Standards are prefixed “S” (e.g., S-900). Recommended Practices carry the prefix “RP” (e.g., RP-900).

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Note: Click the “Update Available” link in the column entitled “Circulars?” to identify any circular letters that implement specifications, standards, or recommended practices revised since the MSRP section was last printed. Call 877-999-8824 with questions.

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M-1002 Ch1	Introductions, Approvals, and Reports	2021	C-III	Update Available
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Note: Click the “Update Available” link in the column entitled “Circulars?” to identify any circular letters that implement specifications, standards, or recommended practices revised since the MSRP section was last printed. Call 877-999-8824 with questions.

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RP-814	Inspection of Multi-Levels and Vehicles En Route	1994	N	
RP-815	Railroad Police Protection	1994	N	
RP-816	Unloading of Vehicles	2006	N	
RP-817	Destination Inspections	1994	N	

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RP-831	Standard Vehicle Nomenclature	2015	N	
RP-851	Double-Stack Container Cars	2004	I	
RP-852	Intermodal Equipment Cars	2003	I	
RP-853	Trailer Repair and Modification	2019	I	Update Available
RP-899	Car Owner's Manual for the Inspection and Maintenance of Double-Stack Container Cars	2018	I	
RP-905	Performance Requirements for Refrigerated Boxcar Fuel Tanks	2006	C	
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RP-2002	Interoperability Requirements—Operation of Regularly Scheduled Revenue Passenger Service	2019	M	
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RP-5120	Flexible Hinge Guard on Locomotive Cab Door	2001	M	
RP-5122	Locomotive Horn Valve Handle with Soft, Resilient-Type Rubber Cover	2001	M	
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RP-9457	Positive Train Control Interoperable Electronic Train Management System (I-ETMS) Master Test Strategy (MTS)	2012	K-V	
RP-9511	Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation	2019	K-VI	Update Available
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S-046	Definitions of Terms for the <i>AAR Manual of Standards and Recommended Practices</i>	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	Update Available
S-100	Bushings, Seamless Steel Tube—Coupler Shanks and Yokes	2010	B	
S-101	Field Service Experience—Reporting Requirements	2003	B	
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S-486	Code of Air Brake System Tests for Freight Equipment—Single Car Test	2018	E	
S-488	End Cock and Air Brake Hose Location on Long Cars	2002	E	
S-489	Dirt Collector and Cutout Cock, Combined—Repair Specification	1981	E	
S-490	Vent Protector Performance and Approval	2002	E	

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S-493	Dirt Collector and Cutout Cock—Test Specification	2002	E	
S-494	Reservoir, Steel Fabricated, Combined Auxiliary and Emergency	2005	E	
S-495	Angle Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
S-512	27-Point Control Plug and Receptacle	2007	M	
S-580	Locomotive Crashworthiness Requirements	2020	M	
S-591	Locomotive System Integration Operating Display	2020	M	
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	
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-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-616	Limit Wear Gauge for Condemning Wheel Defect—Worn Journal Collar and Journal Fillet Gauge	2004	G	
S-617	Gauge, Wheel—Former Standard 1980	1980	G	
S-618	Gauge, Wheel—Former Standard 1976	1976	G	
S-619	Reference Groove for Multiple-Wear Diesel Wheels	2015	G	
S-627	Combined Wheel Gauge	1998	G	
S-628	Combined Wheel Gauge	1998	G	
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S-630	Steel Wheel Gauge	2013	G	
S-649	Axles—Manufacturing Facility Inspection by Technical Services	2004	G	
S-657	Wheel, Passenger Car (Amfleet)	1980	G	
S-658	Axle for Passenger Cars (Amfleet) Inboard Roller Bearing—Raised Wheel Seat	2020	G	
S-659	Mandatory Rules Governing Wheel Shop Practices as Required by Interchange Rules	2020	G-II	Update Available

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S-662	Gauge, Wheel—Minimum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Narrow-Flange Steel Wheel	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-665	Gauge, Wheel—Maximum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Wide-Flange Steel Wheels	1991	G	
S-666	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-665	1991	G	
S-667	Gauge, Wheel—Minimum Flange Thickness, Height, and Throat Radii Gauge for AAR-1B Wide-Flange Steel Wheels	1991	G	
S-668	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-667	1991	G	
S-669	Analytic Evaluation of Locomotive Wheel Designs	2020	G	
S-701	Locking Plate for Journal Roller Bearing Assemblies	1977	H	
S-701A	Locking Plate for Journal Roller Bearing Assemblies	2012	H	
S-702	Component Parts for Journal Roller Bearing Assemblies	1998	H	
S-703	Cap Screws for Journal Roller Bearing Assemblies	2019	H	Update Available
S-704	Adapter for Use with AAR Standard Pedestal-Type Side Frame	1968	H	
S-705	Wear Gauge for Journal Roller Bearing Adapters	1978	H	
S-706	Wear Gauge for Journal Roller Bearing Adapters	1975	H	
S-720	Tabulation of Adapters and Frame Keys for AAR-Approved Roller Bearings	2008	H	
S-721	Roller Bearing Manual—Mandatory Instructions and Practices	2018	H-II	Update Available
S-722	Roller Bearing Manual—Rules Covering Requirements for Approval of Roller Bearing Shops to Recondition Roller Bearings for Interchange Service	2012	H-II	

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S-724	Roller Bearing Manual—Information on Amtrak Passenger Car Bearings	2012	H-II	
S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	2018	H-II	Update Available
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	2017	H-II	
S-727	Roller Bearing Manual—Appendix A. Approved Materials	2015	G-II	
S-732	Inspection and Lubrication of Trailer Hitches on Flatcars	2016	I	
S-810	Conducting Field Impact and Over-the-Road Tests of Multi-Level Tie-down Equipment and/or Methods	2016	N	
S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	1994	N	
S-910	Lettering and Marking of Cars	2020	C	
S-916	Retroreflective Comparator Panel Requirements	2018	C	
S-920	AAR Component Identification (CID) Bar Code Standard	2021	F	Update Available
S-2008	Card Holder—Bad Order	2013	C	
S-2009	Push Rod, Brake Cylinder	1964	E	
S-2025	Hopper Car—End for Door Operating Shaft	1914	C	
S-2034	Car Builder Certification	2019	C	
S-2035	Side Handhold, Additional—Hopper and High-Side Gondola Cars	2017	C	
S-2036	Temperature—for Car Structures and Components	1983	C	
S-2037	Trough Hatch Cover	2015	C	
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	C	
S-2039	Batten Bars	2014	C	
S-2042	Performance Specification for Sill Steps	2017	C	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2017	C	
S-2044	Safety Appliance Requirements for Freight Cars	2020	C	
S-2045	Remote Monitoring Equipment, Installation	2012	C	
S-2046	Accelerated Fatigue Test Specification for Increased Life Status Applications	2006	C	

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S-2050	Anti-Pilferage Device—Boxcar Plug Door	2007	C	
S-2053	Container Interface—Well Car, 53 ft	2009	C	
S-2054	Clearance Diagram—Interface Between a Well Car and a Container Equipped with a Refrigerator/ Heater Unit	2016	C	
S-2055	Body Center Plate, Low Profile	2014	C	
S-2056	Clearance Plate Diagrams for Interchange Service	2020	C	
S-3001	Approval of AAR-Approved Brake Beam Safety Supports	1984	E	
S-3003	Side Frame—Column Friction Wear Plate, Application	1983	D	
S-3005	Universal Brake Beam Gauge	1985	E	
S-3006	Specification for Recertified “D” Series Helical Truck Springs	1988	D	
S-3007	Specifications for the Certification of New Truck Designs for Compatibility with Hot Bearing Detection Systems	1991	D	
S-3008	Performance of Devices or Designs to Control Yaw Dynamics in Freight Car Trucks	1997	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	Specifications Covering Surface of Truck Bolster Side Bearing Mounting Pad	1997	D	
S-3014	Freight Car Truck Springs—with Snubber Spring	2010	D	
S-3015	Freight Car Truck Springs—without Snubber Spring	2010	D	
S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2018	D	
S-4000	Brake Pipe Reduction Devices, Freight Auxiliary—Environmental Tests	1984	E	
S-4001	Rubber Products—Performance	2018	E	
S-4002	Empty/Load Devices—Performance Testing	2005	E	

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S-4004	Brake Cylinder—Performance Testing	2002	E	
S-4005	Brake Systems, Truck-Mounted—Performance Testing	2002	E	
S-4006	Hose Supports—Performance Testing	2008	E	
S-4007	Reservoir, Combined Auxiliary and Emergency—Reclamation Procedure	2002	E	
S-4008	Slack Adjuster, Mechanical, Double-Acting, Automatic Compression	2017	E	
S-4009	Compression Slack Adjusters and Piston Travel Adjustment—Inspection, Testing, Removal, and Application	2009	E	
S-4010	Slack Adjuster, Tension—Inspection, Testing, Removal, and Application	2018	E	
S-4013	Train Line Hoses—Coupling Extension Adapter	2002	E	
S-4020	Brake Cylinder Pressure Measurement Taps	2005	E	
S-4021	Angle Cock and Brake Hose Location on Cars with EOCC	2009	E	
S-4022	Pipe, Other than Schedule 80 Iron (RETIRED 04/16/2020)	2006	E	Update Available
S-4023	Brake Shoe Limiting Contour, Low-Friction Composition Type	2009	E	
S-4024	Brake Shoe Force Measurement Devices—Performance Specification	2002	E	
S-4025	Brake Beam Wear Liners, Non-Metallic	2004	E	
S-4026	Brake Rod Connector—Design Requirements	2003	E	
S-4027	Automated Single-Car Test Equipment, Conventional Brake Equipment—Design and Performance Requirements	2018	E	
S-4028	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Not Exceeding 45 in. in Length	2008	E	
S-4029	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Exceeding 45 in. in Length	2008	E	
S-4030	Trolley Arrangement on Cars with EOCC and E Shank Couplers	2008	E	
S-4045	Passenger Equipment Maintenance Requirements (formerly S-045)	2013	E	
S-4046	Date Markings for Rubberized Components	2016	E	

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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	M	
S-5019	Locomotive Definitions	2019	M	
S-5020	Color Code for Identifying Fluids on Locomotive	2015	M	
S-5021	Wheel Size and Speed Pickup Axle Identification	2016	M	
S-5022	Ultra-Low Sulfur Diesel (ULSD) Identification Label/Decal	2015	M	
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2017	T	Update Available
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2017	T	Update Available
S-5027	21-Point Control Plug, Cable Assembly, and Receptacle (TC-21 Tender Control Cable)	2017	T	Update Available
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2020	T	Update Available
S-5029	Safety Appliance Requirements for Intermodal Car-style Fuel Tenders	2020	T	Update Available
S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2020	T	Update Available
S-5031	Tender-fill Control Cable FC-18	2020	T	Update Available
S-5032	Tender-fill Ethernet Cable (FC-8)	2020	T	Update Available
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	

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S-5507	Remote Control Locomotives	2002	M	
S-5509	Locomotive Dynamic Brake Status Reporting	2018	M	
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	M	Update Available
S-5513	Locomotive Alerter Requirements	2019	M	
S-5514	Locomotive Operator Control Symbols	2011	M	
S-5515	LED Lighting for Locomotives	2017	M	
S-5520	Locomotive Cab Securement	2014	M	
S-5529	Multiple Unit Pneumatic Brake Equipment for Locomotives	2008	M	
S-5530	Locomotive Headlight Control	2018	M	
S-5531	Remote Monitoring Equipment, Locomotive—Installation	2019	M	
S-5597	Air Flow Indicators	2007	M	
S-5598	Calibration Procedure for AFM Type Air Flow Indicators	2007	M	
S-6000	Acoustic Roller Bearing Detector Level-1 Indications	2014	F	
S-6001	Bearing Temperature Performance	2014	F	
S-6002	Data Summary Definitions	2016	F	
S-6003	Data Summary—Truck Hunting	2014	F	
S-6004	Data Summary—TADS®	2018	F	
S-6005	Data Summary—RailBAM®	2018	F	
S-6006	Data Summary—Brake Health Truck	2015	F	
S-6007	Data Summary—Brake Health Car	2015	F	
S-6008	Data Summary—Salient Wheel Impact	2016	F	
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2019	F	
S-6010	Data Summary—Wheel Profile Detector (WPD)	2019	F	
S-6020	Data Summary Definition—Line-of-Road Failure	2019	F	
S-6021	Data Summary Definition—Line-of-Road Failure—Air Hose Separation	2016	F	
S-6022	Data Summary Definition—Line-of-Road Failure—Train Separation	2016	F	
S-6023	Data Summary Definition—Line-of-Road Failure—Brake System/Other	2016	F	
S-6030	Wheel Performance—Dynamic Impact and Rim Thickness	2016	F	

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S-6100	Wayside Detector Data Processing	2016	F	
S-6101	Detector Calibration and Validation Requirements	2015	F	
S-6102	Wayside Passing Data Format	2020	F	Update Available
S-6103	Wheel Profile Detector	2019	F	
S-6200	Machine Vision Detector	2019	F	
S-9001	ITC System Reference Architecture	2012	K-I	
S-9002	Railroad Electronics Standards Configuration Management	2009	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-9080	Positive Train Control Interoperability Committee Policy	2020	K-I	Update Available
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	Update Available
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	Update Available
S-9101	Locomotive Electronics System Architecture	2019	K-II	Update Available
S-9101B	Locomotive Data Acquisition and Recording System Architecture	2011	K-II	
S-9101C	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	Update Available
S-9101E	Locomotive System Integration Communications	2016	K-II	Update Available
S-9101G	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II	Update Available

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S-9152	End-of-Train Communications	2016	K-II	Update Available
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	Update Available
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	Update Available
S-9203B	AEI Site-to-Host Wayside Report Format	2010	K-III	
S-9353	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	Update Available
S-9354	Edge Message Protocol	2018	K-IV	Update Available
S-9355	Class C Messaging	2010	K-IV	
S-9356	Class D Messaging	2018	K-IV	Update Available
S-9357	Mutually Authenticated Key Exchange	2019	K-IV	Update Available
S-9358	Anonymous Key Exchange	2019	K-IV	Update Available
S-9359	Interoperable Certificate Revocation Responder Service	2019	K-IV	Update Available
S-9361 V3.0	Positive Train Control Office-Locomotive Segment—Interface Control Document (ICD)	2020	K-IV	Update Available
S-9362	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2014	K-IV	
S-9363	ITC Time and Location—Interface Control Document (ICD)	2012	K-IV	
S-9364	I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD)	2017	K-IV	Update Available
S-9365	Locomotive Interface Gateway (LIG) to Positive Train Control (PTC) Interface Control Document (ICD)	2019	K-IV	Update Available
S-9371	PTC Back Office Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available
S-9372	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available

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S-9375	Centralized Traffic Control (CTC) over Interoperable Train Control Management (ITCM)—Interface Control Document	2018	K-IV	Update Available
S-9376	Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)	2016	K-IV	Update Available
S-9379	Requirements for Using an ITC EMP Application Gateway	2018	K-IV	Update Available
S-9401	Railroad Electronics Environmental Requirements	2009	K-V	
S-9451	ITCSM Common Systems Management Requirements	2014	K-V	
S-9451A	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	
S-9452	ITCSM Common Data Dictionary for Interoperable Train Control	2018	K-V	Update Available
S-9452A	ITCSM WIU Asset-Specific Data Dictionary for Interoperable Train Control	2012	K-V	
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
S-9501	Positive Train Control Data Model Definition	2018	K-VI	Update Available
S-9502.V1.0	PTC Track Data Exchange	2020	K-VI	Update Available
S-9502.V1.1	PTC Track Data Exchange	2020	K-VI	Update Available
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	Update Available
S-9552	Railroad Communications Network	2004	K-VI	
S-9553	Communications System Architecture	2002	K-VI	
S-9553A	Mobile Communications Package	2002	K-VI	
S-9553B	Front End Processor	2002	K-VI	
S-9553C	Cluster Controller	2002	K-VI	
S-9553D	Base Communications Package	2002	K-VI	
S-9555	Railroad Use of IEEE 802.11	2015	K-VI	Update Available
S-9556	AAR Channel Plan for VHF Frequencies from 160.215 MHz to 161.565 MHz	2013	K-VI	
S-9557	Interoperable Train Control (ITC) Radio Identification Format	2015	K-VI	Update Available

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S-512	27-Point Control Plug and Receptacle	2007	M	
S-9556	AAR Channel Plan for VHF Frequencies from 160.215 MHz to 161.565 MHz	2013	K-VI	
S-920	AAR Component Identification (CID) Bar Code Standard	2021	F	Update Available
M-1002 Ch2	AAR Special Requirements for DOT Tank Cars	2018	C-III	Update Available
S-2046	Accelerated Fatigue Test Specification for Increased Life Status Applications	2006	C	
RP-5107	Access Doors to Light Boxes for Road Number, Headlight, or Warning Lights—Outside Cab	2001	M	
S-6000	Acoustic Roller Bearing Detector Level-1 Indications	2014	F	
S-704	Adapter for Use with AAR Standard Pedestal-Type Side Frame	1968	H	
M-947	Adhesive-Backed Films for Marking Cars—Performance-Based Requirements	2015	C	
RP-9203	AEI Reader Equipment Requirements	2010	K-III	
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	Update Available
S-441	Air Brake and Signal Hose—Mounting of Coupling and Nipple	2002	E	
RP-508	Air Brake Exhaust Piping	2001	M	
S-5597	Air Flow Indicators	2007	M	
S-669	Analytic Evaluation of Locomotive Wheel Designs	2020	G	
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	E	
S-4021	Angle Cock and Brake Hose Location on Cars with EOCC	2009	E	
S-424	Angle Cock Location	2018	E	
S-495	Angle Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
S-425	Angle Cock Location on Cars Equipped with AAR Type F Coupler	2002	E	
S-428	Angle Cock Location on Cars Equipped with AAR Type F Coupler and Cushioned Underframe	2005	E	

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S-429	Angle Cock Locking Lugs—Minimum Permissible Engagement	2002	E	
S-470	Angle Cock, Ball Type—Specification for Approval	2002	E	
S-476	Angle Cocks and Brake Pipe End Cocks—Repair Specification	1981	E	
S-9358	Anonymous Key Exchange	2019	K-IV	Update Available
S-2050	Anti-Pilferage Device—Boxcar Plug Door	2007	C	
S-2049	Anti-Pilferage Device—Boxcar Sliding Door	2007	C	
S-060	Application for Component Approval Procedure	2015	AS	Update Available
RP-323	Application of Snap-On Pedestal Roof Liners for AAR Pedestal-Type Side Frames	2012	D	
S-379	Application Tolerances for Hanger-Type Brake Beams	unk	E	
S-3001	Approval of AAR-Approved Brake Beam Safety Supports	1984	E	
S-239	Arrangement E60 Coupler Design 24 5/8 in. Draft Gear Pocket Striker Applied by Welding	2012	C	
S-4027	Automated Single-Car Test Equipment, Conventional Brake Equipment—Design and Performance Requirements	2018	E	
S-5502	Automatic Engine Start/Stop System	2011	M	
S-9203	Automatic Equipment Identification	2010	K-III	
S-9203. V1.1	Automatic Equipment Identification	2020	K-III	Update Available
S-658	Axle for Passenger Cars (Amfleet) Inboard Roller Bearing—Raised Wheel Seat	2020	G	
RP-5523	Axle Nomenclature Arrangement—Locomotives	2001	M	
RP-622	Axle, Weight—Machined Finish, Raised Wheel Seat	2007	G	
S-649	Axles—Manufacturing Facility Inspection by Technical Services	2004	G	
M-101	Axles, Carbon Steel, Heat-Treated	2020	G	
M-985	Bad Order Device for Identification of Defective Hitches	2004	I	
S-374	Badge Plate for Showing Proper Dimensions for Body and Truck Brake Levers	1964	E	
S-9553D	Base Communications Package	2002	K-VI	
RP-5209	Basic Brake Design Data for Freight Locomotives	1999	M	
S-2039	Batten Bars	2014	C	
S-6001	Bearing Temperature Performance	2014	F	

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S-211	Body Center Plate Gauge—14-in. and 16-in. Diameter	1976	C	
S-258	Body Center Plate Relief	1980	C	
S-206	Body Center Plate, Cast Steel or Forged—for Freight Cars with 14 in. Center Plates	1978	C	
S-207	Body Center Plate, Cast Steel or Forged—for Freight Cars with 16 in. Center Plates	2014	C	
S-2055	Body Center Plate, Low Profile	2014	C	
S-204	Body Center Plate, Separable—Surface Finish	2014	C	
M-203A	Bolster Design Loads	1997	S	
S-316	Bolster—Tolerances	1981	S-II	
S-310	Bolster, 14 in. Center Plate—Limiting Outline	1979	S-II	
S-311	Bolster, 16 in. Center Plate—Limiting Outline	2009	S-II	
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S-355	Brake Beam Gauge Application—Hangerless Type	1979	E	
S-352	Brake Beam Gauge Assembly—Hangerless Type	1979	E	
S-353	Brake Beam Gauge Details—Hangerless Type	1981	E	
S-348	Brake Beam Gauges for Standard Brake Beams	1992	E	
S-368	Brake Beam Hangers and Attachments	1965	E	
S-369	Brake Beam Hangers and Attachments	1965	E	
S-344	Brake Beam Specifications and Tests	2007	E	
RP-322	Brake Beam Strut Keyway Gauge	1992	E	
S-4025	Brake Beam Wear Liners, Non-Metallic	2004	E	
S-346	Brake Beam—Outline, Hanger Type	1953	E	
S-349	Brake Beam—Outline, Hangerless Type	1979	E	
S-345	Brake Beam—Tolerance, Hangerless Type	1979	E	
RP-401	Brake Control Valves—Mount-Configuration Designs as Related to Field Vibration	2014	C	
M-619	Brake Cylinder Line Hose Assemblies—Performance Requirements	2005	E	
M-914	Brake Cylinder Lubricant	2003	E	
S-4020	Brake Cylinder Pressure Measurement Taps	2005	E	
S-443	Brake Cylinder Release Valve and Release Rod	2002	E	
S-444	Brake Cylinder Release Valve Rod Handles—Location	2002	E	
S-4004	Brake Cylinder—Performance Testing	2002	E	
S-401	Brake Design Requirements.	2020	E	Update Available

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S-400	Brake Equipment—Installation Specifications	2018	E	
S-372	Brake Head Conversion—Metal Shoe-Type to High-Friction Composition	1972	E	
S-375	Brake Pin Tolerance	1975	E	
S-4000	Brake Pipe Reduction Devices, Freight Auxiliary—Environmental Tests	1984	E	
S-471	Brake Pipe Restriction Test	2010	E	
S-4026	Brake Rod Connector—Design Requirements	2003	E	
S-4024	Brake Shoe Force Measurement Devices—Performance Specification	2002	E	
S-448	Brake Shoe Go Gauge	2002	E	
S-376	Brake Shoe Keys	2003	E	
S-4023	Brake Shoe Limiting Contour, Low-Friction Composition Type	2009	E	
S-449	Brake Shoe No-Go Gauge	2002	E	
RP-518	Brake Shoe Unflanged	2001	M	
M-997	Brake Shoe—High-Friction Tread Conditioning, High Capacity	2008	E	
M-402	Brake Shoe, Cast Iron, High-Phosphorus Type	2002	E	
M-926	Brake Shoe, High-Friction Composition or Metal Type	2015	E	
S-431	Brake Shoe, High-Friction Composition Type—Limiting Contour	2017	E	
M-996	Brake Shoe, Low-Friction Composition Type	2015	E	
S-430	Brake Shoe, Metal, Reinforced	2002	E	
RP-599	Brake Shoes—High-Friction Composition Type for Locomotives	2001	M	
RP-5596	Brake Shoes—Metal Type	2001	M	
S-4005	Brake Systems, Truck-Mounted—Performance Testing	2002	E	
RP-509	Braking Ratios for Locomotives	2001	M	
S-100	Bushings, Seamless Steel Tube—Coupler Shanks and Yokes	2010	B	
S-5598	Calibration Procedure for AFM Type Air Flow Indicators	2007	M	
S-703	Cap Screws for Journal Roller Bearing Assemblies	2019	H	Update Available
S-2034	Car Builder Certification	2019	C	

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S-2008	Card Holder—Bad Order	2013	C	
M-220	Casting Component Nondestructive Testing Requirements	2020	S	Update Available
M-201	Castings, Steel	2018	S	
S-307	Center Bowl Horizontal Wear Liner	2017	D	
M-979	Center Bowl Liner—Requirements for Approval	2019	D	
S-306	Center Bowl Vertical Wear Liner	2017	D	
S-265	Center Pin—Freight Car	1989	C	
S-308	Center Bowl Wear Liner Application	2012	D	
S-267	Center Sill Section—Welding Notes	1979	C	
S-266	Center Sill Section, Rolled Steel	2012	C	
S-9375	Centralized Traffic Control (CTC) over Interoperable Train Control Management (ITCM)—Interface Control Document	2018	K-IV	Update Available
M-1002 AppB	Certification of Tank Car Facilities	2020	C-III	Update Available
M-970	Condition-Based Certification of Multi-Level Auto Rack Cars	2019	N	
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	Class C Messaging	2010	K-IV	
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	C	
S-2056	Clearance Plate Diagrams for Interchange Service	2020	C	
S-9553C	Cluster Controller	2002	K-VI	
S-486	Code of Air Brake System Tests for Freight Equipment—Single Car Test	2018	E	
RP-512	Color Code for Identifying Fluids on Locomotive	2001	M	
S-5020	Color Code for Identifying Fluids on Locomotive	2015	M	
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S-628	Combined Wheel Gauge	1998	G	

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S-9553	Communications System Architecture	2002	K-VI	
S-702	Component Parts for Journal Roller Bearing Assemblies	1998	H	
S-4009	Compression Slack Adjusters and Piston Travel Adjustment—Inspection, Testing, Removal, and Application	2009	E	
S-051	Conditions Governing Withdrawal of AAR Approval of Freight Car and Locomotive Components and Products	2000	AS	
S-810	Conducting Field Impact and Over-the-Road Tests of Multi-Level Tie-down Equipment and/or Methods	2016	N	
S-2053	Container Interface—Well Car, 53 ft	2009	C	
M-930	Containers for Domestic Intermodal Service	2019	I	Update Available
S-468	Control Valve Pipe Bracket	2009	E	
S-462	Control Valve—Approval Procedure	2019	E	Update Available
S-477	Control Valve—Shop Certification Requirements for Approved Valves	2002	E	
S-467	Control Valve, Freight Brake—Environmental Tests	2002	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	
S-134	Coupler (Rotary), Types E60, E67, and F70, Operating Rod for Use with Standard Draft Gear or End-of-Car Cushioning up to 15-in. Total Travel	2016	S-III	
S-269	Coupler Carrier Wear Plate	2003	B	
M-932	Coupler Centering Device Specification	2003	S-III	
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S-137	Coupler Shank Wear Plates and Application	2000	S-III	
S-130	Coupler, E Type, Articulated Rotor Lever Assembly	2003	S-III	
S-105	Coupler, E Type, Detail Parts	2003	S-III	
S-173	Coupler, E Type, Guard Arm Lightener Hole Openings and Knuckle Flag Hole—Standard Dimensions	2003	S-III	
S-106	Coupler, E Type, No. 10-A Contour and Detail of Pivot Pin Hole	2003	S-III	

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S-164	Coupler, E Type, SBE67CE and SBE67DE, Bottom Shelf	2020	S-III	
S-154	Coupler, E Type, SE67CE and SE67DE, Top and Bottom Shelf	2020	S-III	
S-102	Coupler, E Type, Standard and Alternate Standard, E60DE and E60EE	2020	S-III	
S-107	Coupler, E Type, Standard and Alternate Standard, E67CE and E67DE	2020	S-III	
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S-172	Coupler, E/F Type, SE69BE and SE69CE, Top and Bottom Shelf	2020	S-III	
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S-174	Coupler, F Type, Guard Arm Lightener Hole Openings and Knuckle Flag Hole—Standard Dimensions	2003	S-III	
S-116	Coupler, F Type, Interlocking, Coupler and Yoke Parts	2003	S-III	
S-110	Coupler, F Type, Standard F Coupler, F70DE	2009	S-III	
S-112	Coupler, F Type, Standard, F73BE	2003	S-III	
S-114	Coupler, F Type, Standard, F79DE	2003	S-III	
S-111	Coupler, F Type, with Top Shelf, Standard, SF70DE	2003	S-III	
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S-203	Coupler, Height Adjustment	1962	C	
M-212	Couplers and Yokes, Secondhand—Classification and Reconditioning Procedure	2016	S	
S-129	Couplers—Arrangement of Operating Mechanisms	2000	S-III	
M-215	Coupling Systems	2018	S	
RP-5115	Cushion Pad—Locomotive Cab Door Frame	2001	M	
RP-110	Cushioning Device Inspection	2003	B	

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M-921F	Cushioning Devices, Active Draft End of Car	2020	B	Update Available
M-921B	Cushioning Devices, End-of-Car	2020	B	Update Available
M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle-Carrying	2020	B	Update Available
M-921C	Cushioning Devices, Reconditioned—Approved for Freight Service	2020	B	Update Available
M-921A	Cushioning Devices, Sliding Sill	2018	B	
S-181	Cushioning Pocket Identification Guide—AAR Rule 59	2003	B	
S-9010	Data Protection	2019	K-I	Update Available
S-6020	Data Summary Definition—Line-of-Road Failure	2019	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	2016	F	
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2019	F	
S-6007	Data Summary—Brake Health Car	2015	F	
S-6006	Data Summary—Brake Health Truck	2015	F	
S-6005	Data Summary—RailBAM®	2018	F	
S-6008	Data Summary—Salient Wheel Impact	2016	F	
S-6004	Data Summary—TADS®	2018	F	
S-6003	Data Summary—Truck Hunting	2014	F	
S-6010	Data Summary—Wheel Profile Detector (WPD)	2019	F	
S-4046	Date Markings for Rubberized Components	2016	E	
RP-206	Decking, Wood—for Open Top Cars	1981	C	
S-046	Definitions of Terms for the <i>AAR Manual of Standards and Recommended Practices</i>	2015	AS	Update Available
RP-308	Design Dimensions for Brake Hanger Bracket	1937	E	
M-1001	Design, Fabrication, and Construction of Freight Cars	2020	C-II	Update Available
M-992	Designated Satellite Shop Repair Specifications for Multi-Level Autorack Cars	2019	N	
RP-514	Designation of Sides and Ends of Locomotives	2001	M	
RP-817	Destination Inspections	1994	N	

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S-493	Dirt Collector and Cutout Cock—Test Specification	2002	E	
S-489	Dirt Collector and Cutout Cock, Combined—Repair Specification	1981	E	
S-252	Door Air Lines—Location of End Cocks	1978	C	
RP-5117	Door Closure Bar—Locomotive Cab	2001	M	
S-249	Door Puller Bracket, Application to Intermediate Post	1978	C	
S-229	DOT Placard Location	2013	C	
RP-851	Double-Stack Container Cars	2004	I	
S-243	Draft Arrangement, E68 Coupler, 24 5/8-in. Pocket	1983	C	
S-244	Draft Arrangement, E69 Coupler, 24 5/8-in. Pocket	1983	C	
S-245	Draft Arrangement, F70 Coupler, 24 5/8-in. Pocket—Striker Applied by Welding	1978	C	
S-247	Draft Arrangement, F79 Coupler, 24 5/8-in. Pocket	1978	C	
S-119	Draft Gear Follower, Y44A	2012	B	
RP-101	Draft Gear Inspection	2011	B	
M-901F	Draft Gear Reaction Forces, Measuring and Recording, Instrumentation Requirements	2003	B	
M-901K	Draft Gear, All-Hydraulic, Rated by Impact Testing	2015	B	
M-901G	Draft Gear, Rated by Impact Testing	2015	B	
M-901B	Draft Gear, Secondhand and Reconditioned	2015	B	
M-901E	Draft Gears with a Minimum Capacity of 36,000 ft·lb at a Reaction of 500,000 lb	2015	B	
S-121	Draft Key	2017	B	
S-120	Draft Key Retainers, Locks, Keepers, and Washer	2011	B	
S-254	Draft Pocket Tolerances	1974	C	
S-5018	Dynamic Braking Control	2020	M	
S-4260	ECP Brake and Wire Distributed Power Interoperability Test Procedures	2008	E-II	
S-4240	ECP Brake Equipment—Approval Procedure	2007	E-II	
S-4270	ECP Brake System Configuration Management	2008	E-II	
S-4220	ECP Cable-Based Brake DC Power Supply—Performance Specification	2002	E-II	
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	Update Available

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M-967	Electrochemical Metal Deposition for Repairing Roller Bearing Axle Journals	2008	G	
RP-940	Electronic Distribution Format For Engineering Drawings	2005	C	
S-4200	Electronically Controlled Pneumatic (ECP) Cable-Based Brake Systems—Performance Requirements	2014	E-II	
S-4002	Empty/Load Devices—Performance Testing	2005	E	
S-488	End Cock and Air Brake Hose Location on Long Cars	2002	E	
S-472	End Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
M-941	End Enclosure for Fully Enclosed Multi-Level Auto Rack Cars	1998	N	
S-440	End Hose Gaskets, Couplings, and Nipples—Annual Test Requirements	1999	E	
S-9152	End-of-Train Communications	2016	K-II	Update Available
M-921G	Facility Inspection Requirements for Manufacturers of New and Reconditioned Cushioning Devices for Freight Service	2003	B	
S-9074	Federated Network Requirements	2020	K-I	Update Available
S-101	Field Service Experience—Reporting Requirements	2003	B	
S-492	Field Service Reports—Requirements	2002	E	
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	2020	G-II	Update Available
M-908	Flat Steel Floor for Freight Cars 50,000, 60,000, 70,000 or 80,000 lb Capacities	2006	C	
RP-5120	Flexible Hinge Guard on Locomotive Cab Door	2001	M	
M-964	Floor, Nailable Steel—Freight Cars 50,000-, 60,000-, 70,000- or 80,000-lb Capacities	2006	C	
M-127	Forgings, Alloy Steel	1964	S	
M-126	Forgings, Carbon Steel	1968	S	
M-105	Forgings, Carbon Steel Blooms, Billets, and Slabs	1964	S	
RP-830	Form Preparation for Vehicle Inspection	2014	N	
M-211	Foundry and Product Approval Requirements for the Manufacture of Couplers, Coupler Yokes, Knuckles, Follower Blocks, and Coupler Parts	2018	S	

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M-934	Freight Car Journal Roller Bearings	2019	H	Update Available
S-3015	Freight Car Truck Springs—without Snubber Spring	2010	D	
S-3014	Freight Car Truck Springs—with Snubber Spring	2010	D	
M-980	Friction Wedge Performance for Railcars—Dynamic Wear Test	2018	D	
S-9553B	Front End Processor	2002	K-VI	
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2017	T	Update Available
M-602	Gaskets, Air Hose	2002	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	
RP-638	Gauge, Wheel—Application Drawing for Reference Gauge to Verify Wheel Gauges S-661, S-662, S-663, S-664, S-665, S-666, S-667, and S-668	1991	G	
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	
S-662	Gauge, Wheel—Minimum Flange Thickness, 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	

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S-666	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-665	1991	G	
S-668	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-667	1991	G	
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	E	
RP-634	Gauges—Wheel and Axle Shop	2017	G-II	
RP-632	General Requirements and Information	2019	G-II	Update Available
S-359	Go and No-Go Gauge for Brake Head for Limiting Contour of Face, Metal or High-Friction Shoe	1990	E	
S-358	Go Gauge for Brake Head, Metal or High-Friction Shoe	2009	E	
S-361	Go Gauges for Brake Shoe	1944	E	
S-233	Gravity Outlet Gates, New—for Covered Hopper Cars	2014	C	
M-929	Grease for Lubrication of Trailer Hitches on Flatcars	2004	I	
S-475	Hand Brakes	2019	E	Update Available
S-224	Handholds, Safety Railings, and Ladder Treads	2015	C	
RP-2018	Handholds, Steps, and Ladders for Interior Access	2019	C	
RP-812	Handling and Inspection of Multi-Level Cars and Equipment After Loading	1994	N	
RP-810	Handling and Inspection of Vehicles Before Loading	2013	N	
RP-818	Handling of Multi-Level Cars and Equipment After Unloading	1997	N	
RP-813	Handling of Multi-Level Cars in Trains and Yards	1994	N	
S-380	Hangerless Brake Beam Extension Functional Gauge (Parallelism)	1979	E	
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2017	T	Update Available
M-114	Helical Springs, Heat-Treated Steel	2008	D	
M-928	Highway Trailer Hitches for Freight Cars	2018	I	
M-928A	Highway Trailer Hitches for Freight Cars with 90,000-lb Maximum Gross Vehicle Weight Capacity	2018	I	
RP-233	Hold-Down Clips—Gondolas, Side Sheet Mounted	1948	C	
RP-234	Hold-Down Clips—Gondolas, Top Cord Mounted	1982	C	
RP-5599	Hook and Eye Brake Rigging—Lever Angularity Inspection	2007	E	

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RP-258	Hopper Car—Grain Service	1992	C	
M-800	Hopper Car, Covered—For Transport of Oxidizing Commodities	2012	C	
M-801	Hopper Car, Covered—Pressurized During Unloading and In-Transit	2012	C	
RP-200	Hopper Car, Open Top, in Shaker Service—Design Features	1976	C	
S-458	Hose Assemblies—Reclamation Procedures	2002	E	
M-923	Hose Cement	1983	E	
S-439	Hose Clamps	2002	E	
S-491	Hose Coupling	2005	E	
S-455	Hose Coupling Condemning Gauges for Checking the Beads and Shanks on New and Used Hose Couplings and Nipples	2002	E	
S-447	Hose Coupling Gasket Gauge	2002	E	
S-456	Hose Coupling Gauges for Gauging New and Used Couplings	2002	E	
S-457	Hose Coupling Tester, Air Brake, Type A-1-B—Modification to Permit Testing of Pinless-Type Couplings	2002	E	
S-436	Hose Coupling, Dummy	2002	E	
M-927	Hose Fittings and Hose Assemblies, Air, Wire-Reinforced	2007	E	
S-432	Hose Support, S Hook	2002	E	
S-4006	Hose Supports—Performance Testing	2008	E	
M-620	Hose, Air, Fabric-Reinforced	2011	E	
M-618	Hose, Air, Wire-Reinforced	2011	E	
S-438	Hose, Armored Type—Mounting Procedure	1949	E	
S-437	Hose, Other than Armored Type—Mounting Procedure	2002	E	
M-601	Hose, Wrapped, Air—Brake, “End Hose”	2006	E	
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-217	Identification Plate—Boxcar Doors	2009	C	
S-158	Immobilization of Freightmaster	2003	B	
S-161	Immobilization of Freightmaster 10-in. Type E Miner M-12S	2003	B	
S-157	Immobilization of Freightmaster Types F, FS, and B	2003	B	

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S-156	Immobilization of Freightmaster Types SP-E and SP-C	2003	B	
S-162	Immobilization of Keystone F Shank	2003	B	
S-160	Immobilization of Keystone Type E Miner SR-12	2003	B	
S-171	Immobilization of Pullman Standard, ACF, or Keystone Center-of-Car Cushioning Devices (“Dummy Cylinder Method”)	2003	B	
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	B	
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	B	
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	B	
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	B	
S-6031	Inoperative Brake Indications as Determined by Wayside Detector	2016	F	
S-732	Inspection and Lubrication of Trailer Hitches on Flatcars	2016	I	
RP-814	Inspection of Multi-Levels and Vehicles En Route	1994	N	
RP-609	Inspection Stand for Use with Master Disks	2004	G	
S-9202A	Integrated Wayside Messaging Server Hardware Requirements	2011	K-III	
M-1002 AppL	Interior Cleaning, Lining, and Coating	2019	C-III	Update Available
M-998	Intermodal Container Support and Interbox Connector (IBC) Securement Systems for Freight Cars	2019	I	Update Available

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RP-852	Intermodal Equipment Cars	2003	I	
M-933	Intermodal Trailer and Container Securement	2018	I	
RP-2001	Interoperability Requirements—Movement of Passenger Equipment on Freight Railroads	2019	M	
RP-2002	Interoperability Requirements—Operation of Regularly Scheduled Revenue Passenger Service	2019	M	
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
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-9362	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2014	K-IV	
S-9058	Interoperable Train Control Ticket Management (ITCTM) Requirements and Use Cases	2021	K-I	Update Available
S-9202	Interoperable Train Control Wayside Interface Unit Requirements	2012	K-III	
M-9154B	Intra-Consist Communications (ICC) Layer 2	2015	K-II	Update Available
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	
M-1002 Ch1	Introductions, Approvals, and Reports	2021	C-III	Update Available
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-9363	ITC Time and Location—Interface Control Document (ICD)	2012	K-IV	
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	Update Available
S-9451	ITCSM Common Systems Management Requirements	2014	K-V	

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S-9460	ITCSM Interface Control Document for Interoperable Train	2018	K-V	Update Available
S-9452A	ITCSM WIU Asset-Specific Data Dictionary for Interoperable Train Control	2012	K-V	
S-9451A	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	
M-924	Journal Roller Bearing Adapters for Freight Cars	2018	H	Update Available
M-942	Journal Roller Bearing Grease	2020	H	Update Available
M-216	Knuckles, Types E and F—Fatigue Test	2016	S	
RP-232	Ladder, End and Side—Configuration	1981	C	
S-230	Lading Strap Anchor Arrangement and Use—for Flatcars	1973	C	
RP-590	Lead-Acid Batteries and Compartments	2001	M	
S-5515	LED Lighting for Locomotives	2017	M	
S-910	Lettering and Marking of Cars	2020	C	
S-234	Lifting Freight Cars	1982	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	E	
S-371	Limiting Contour of Face of Brake Heads for Hangerless-Type Brake Beams	2009	E	
RP-811	Loading of Vehicles	2015	N	
S-373	Location of Peep Hole on Cars Having Deep Side Sills for Checking Brake Cylinder Piston Travel	1967	D	
S-701	Locking Plate for Journal Roller Bearing Assemblies	1977	H	
S-701A	Locking Plate for Journal Roller Bearing Assemblies	2012	H	
S-5513	Locomotive Alerter Requirements	2019	M	
S-5520	Locomotive Cab Securement	2014	M	
S-5101	Locomotive Cab Window Glazing Material	2002	M	
M-9155	Locomotive Command and Control Module (LCCM)—Functional Requirements	2019	K-II	Update Available
S-580	Locomotive Crashworthiness Requirements	2020	M	
S-9101G	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II	Update Available
S-9101C	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	Update Available

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S-5019	Locomotive Definitions	2019	M	
RP-503	Locomotive Diesel Fuel Additives and Fuel Savings Devices—Evaluation Procedure	2016	M	
S-5509	Locomotive Dynamic Brake Status Reporting	2018	M	
M-1005	Locomotive Electronics Safety Assessments and Analyses	2018	M	
S-9101	Locomotive Electronics System Architecture	2019	K-II	Update Available
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	M	Update Available
RP-5503	Locomotive Fueling Interface	2001	M	
S-5530	Locomotive Headlight Control	2018	M	
RP-5122	Locomotive Horn Valve Handle with Soft, Resilient-Type Rubber Cover	2001	M	
S-5500	Locomotive Interchange Agreement	2007	M	
S-9365	Locomotive Interface Gateway (LIG) to Positive Train Control (PTC) Interface Control Document (ICD)	2019	K-IV	Update Available
S-5514	Locomotive Operator Control Symbols	2011	M	
RP-548	Locomotive Rating Train/Track Resistance	2001	M	
S-9101E	Locomotive System Integration Communications	2016	K-II	Update Available
S-591	Locomotive System Integration Operating Display	2020	M	
M-959	Lubrication Seals for Freight Car Journal Roller Bearings	2019	H	Update Available
S-6200	Machine Vision Detector	2019	F	
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	M	
S-659	Mandatory Rules Governing Wheel Shop Practices as Required by Interchange Rules	2020	G-II	Update Available
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	1996	N	
M-993	Mechanical Certification of Flatcars for Autorack Service	1996	N	
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	M	
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	

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S-5529	Multiple Unit Pneumatic Brake Equipment for Locomotives	2008	M	
S-9357	Mutually Authenticated Key Exchange	2019	K-IV	Update Available
S-362	No-Go Gauge for Brake Shoe	1944	E	
M-971	Non-Grease Lubricant for Autorack Equipment	2002	N	
M-912	Oil, Control Valve	2002	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	M	
S-4045	Passenger Equipment Maintenance Requirements (formerly S-045)	2013	E	
M-1006	Passenger Equipment Performance Specification	2019	M	
S-3008	Performance of Devices or Designs to Control Yaw Dynamics in Freight Car Trucks	1997	D	
S-5506	Performance Requirements for Diesel Electric Locomotive Fuel Tanks	2001	M	
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	C	
S-469	Performance Specification for Freight Brakes	2006	E	
S-2042	Performance Specification for Sill Steps	2017	C	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2017	C	
M-118	Pin, Coupler Knuckle Pivot and Coupler Shank Connecting, Steel	2018	B	
S-4022	Pipe, Other than Schedule 80 Iron (RETIRED 04/16/2020)	2006	E	Update Available
S-184	Pocket Tolerances—EOC-10	2011	B	
S-182	Pocket Tolerances—EOC-8	2011	B	
S-183	Pocket Tolerances—EOC-9	2011	B	
M-951	Portable Bridge Plates for Multi-Level Autorack Cars	2020	N	Update Available
S-9080	Positive Train Control Interoperability Committee Policy	2020	K-I	Update Available
RP-9457	Positive Train Control Interoperable Electronic Train Management System (I-ETMS) Master Test Strategy (MTS)	2012	K-V	
S-9055	Positive Train Control ITC Communications Segment Requirements—Level 1	2013	K-I	

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S-9054	Positive Train Control ITC System Requirements—Level 1	2018	K-I	Update Available
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-9371	Positive Train Control Back Office Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available
S-9501	Positive Train Control Data Model Definition	2018	K-VI	Update Available
S-4047	Positive Train Control—Locomotive Air Brake Interface Requirements	2017	E	
S-9361	Positive Train Control Office-Locomotive Segment—V3.0 Interface Control Document (ICD)	2020	K-IV	Update Available
S-9372	Positive Train Control Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available
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	Update Available
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	Update Available
S-050	Procedures for Considering Proposals Regarding Revisions to the Manual of Standards and Recommended Practices	2014	AS	
S-9502.V1.0	PTC Track Data Exchange	2020	K-VI	Update Available
S-9502.V1.1	PTC Track Data Exchange	2020	K-VI	Update Available
S-2009	Push Rod, Brake Cylinder	1964	E	
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	C	
S-259	Rail Car, 286,000-lb Gross Weight	1994	C	
S-9552	Railroad Communications Network	2004	K-VI	
S-9401	Railroad Electronics Environmental Requirements	2009	K-V	
S-9353	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	Update Available
S-9002	Railroad Electronics Standards Configuration Management	2009	K-I	
RP-815	Railroad Police Protection	1994	N	
S-9555	Railroad Use of IEEE 802.11	2015	K-VI	Update Available

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RP-5126	Recessed Windshield Wiper Valve, Train-Order Light Switch, and Flush-Mounted Train-Order Light	2001	M	
RP-631	Recommended Wheel Shop Practices	2020	G-II	Update Available
M-300	Reconditioned Brake Beams	2012	E	
S-619	Reference Groove for Multiple-Wear Diesel Wheels	2015	G	
S-5507	Remote Control Locomotives	2002	M	
S-2045	Remote Monitoring Equipment, Installation	2012	C	
S-5531	Remote Monitoring Equipment, Locomotive—Installation	2019	M	
M-1002 AppR	Repair, Alteration, and Conversion to Tank Car Tanks	2019	C-III	Update Available
S-9379	Requirements for Using an ITC EMP Application Gateway	2018	K-IV	Update Available
M-956	Requirements Governing Superstructures to Cars Equipped With Sliding Sill or End-of-Car Cushioning Devices	1994	N	
S-4007	Reservoir, Combined Auxiliary and Emergency—Reclamation Procedure	2002	E	
S-494	Reservoir, Steel Fabricated, Combined Auxiliary and Emergency	2005	E	
M-119	Retaining Pin and Keeper for F-Type Cushion Yoke	2009	B	
S-445	Retaining Valve—Location	2002	E	
S-446	Retaining Valve, 1967-Type, Three-Position	2002	E	
M-1002 AppD	Retest and Qualification Requirements	2021	C-III	Update Available
S-916	Retroreflective Comparator Panel Requirements	2018	C	
RP-803	Ride Quality Performance Requirements for Motor Vehicle Shipments	2014	N	
S-727	Roller Bearing Manual—Appendix A. Approved Materials	2015	G-II	
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	Update Available
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	2020	H-II	Update Available

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S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	2018	H-II	Update Available
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	2017	H-II	
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	M	
RP-5128	Rounding All Possible Exposed Convex Edges and Corners	2001	M	
S-4001	Rubber Products—Performance	2018	E	
S-226	Running Board, End Platform, and Brake Step—Design Approval	2020	C	
S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2020	T	Update Available
S-2044	Safety Appliance Requirements for Freight Cars	2020	C	
S-5029	Safety Appliance Requirements for Intermodal Car-style Fuel Tenders	2020	T	Update Available
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2020	T	Update Available
S-219	Safety Appliances for Bulkhead Flatcars, Including Pulpwood Cars and Center Beam Cars	2017	C	
S-220	Safety Appliances for Special Service High-Side Gondolas with Fixed Ends	2017	C	
S-215	Safety Hangers and Retainers—for Freight Car Doors	1964	C	
M-916	Sand for Traction	2017	M	
S-394	Side Bearing Pad for Two-Hole Application	1997	D	
S-235	Side Bearing Wear Plate—Car Body	2012	C	
S-213	Side Door and Door Frames, Boxcar—Plug Type	2018	C	
S-212	Side Door, Boxcar—Sliding Type	2012	C	
M-210	Side Frame and Bolsters, AAR Approved—Purchase and Acceptance	2017	S	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	1966	D	
S-318	Side Frame—Bolster Rotation Stop Lug	1965	S-II	
S-3003	Side Frame—Column Friction Wear Plate, Application	1983	D	
S-320	Side Frame—Column Wear Plate, Application	1983	D	
S-327	Side Frame—Roof Repair	2012	S-II	

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M-965	Special Devices to Control Stability of Freight Cars	2002	D	
S-399	Specification for Bottom Rod Safety Supports	1992	E	
M-1003	Specification for Quality Assurance	2020	J	Update Available
S-3006	Specification for Recertified “D” Series Helical Truck Springs	1988	D	
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M-934A	Standard Interchangeable Spacers for Freight Car Tapered-Roller Journal Bearings	2011	H	
M-934B	Standard Interchangeable Spacers for Freight Car Tapered-Roller Journal Bearings	2011	H	
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S-720	Tabulation of Adapters and Frame Keys for AAR-Approved Roller Bearings	2008	H	
M-1002 AppA	Tank Car Valves and Fittings	2021	C-III	Update Available
S-2036	Temperature—for Car Structures and Components	1983	C	
S-5031	Tender-fill Control Cable FC-18	2020	T	Update Available
S-5032	Tender-fill Ethernet Cable (FC-8)	2020	T	Update Available
S-464	Test Rack, Multiple-Car—Performance Testing Procedure	2019	E	Update Available
S-463	Test Rack, Multiple-Car, Freight Brake	2019	E	Update Available
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S-466	Test Rack, Single-Car, for Individual Valve Portions—Performance Testing Procedure	2005	E	
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M-1002 AppJ	Threaded and Bolted Flange Joint Assembly	2019	C-III	Update Available
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M-931	Trailers for Intermodal Service	2019	I	Update Available
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M-976	Truck Performance for Rail Cars	2020	D	Update Available
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RP-505	Typical 26-L Type Brake Equipment Piping Diagrams for Locomotives	2001	M	
S-5022	Ultra-Low Sulfur Diesel (ULSD) Identification Label/Decal	2015	M	
M-961	Uncoupling Devices, Special	2003	S-III	
M-921H	Unit Condition Indicator, Standard EOC and COC Cushioning Devices	2018	B	
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S-3005	Universal Brake Beam Gauge	1985	E	

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RP-228	Universal Pocket, 10-in. Cushion, Low Deck—E69 Coupler	1975	C	
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M-950-A	Universal Wide-Body Bi-Level Fully Enclosed Autorack Car (Standard Deck)	2018	N	
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RP-816	Unloading of Vehicles	2006	N	
M-991	Vehicle Door Edge Protection System for Multi-Level Autorack Cars	2006	N	
S-490	Vent Protector Performance and Approval	2002	E	
S-227	Walkways, Alternate—at Sides of Double-Stack Car Wells	2020	C	
S-6100	Wayside Detector Data Processing	2016	F	
S-6102	Wayside Passing Data Format	2020	F	Update Available
S-705	Wear Gauge for Journal Roller Bearing Adapters	1978	H	
S-706	Wear Gauge for Journal Roller Bearing Adapters	1975	H	
S-367	Wear Plate for Unit-Type Brake Beam Guide in Side Frame	2003	E	
M-269	Wear Plate, Coupler Carrier, Performance Specification—Non Metallic	2003	B	
S-270	Wear Plate, Used in Cushion Unit and Draft Systems that Employ the Y-47 Pin for an F Shank	2009	B	
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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	
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RP-586	Wire and Cable Insulating Material—Moisture-Resisting Jacketed	2005	M	
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RP-585	Wiring and Cable Specification	2001	M	
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S-177	Yoke, E Type, Cushioning, for Pocket EOC-8	2020	S-III	
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S-179	Yoke, F Type, Cushioning, for Pocket EOC-10 and EOC 26	2020	S-III	
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M-921A	Cushioning Devices, Sliding Sill	2018	B	
M-921B	Cushioning Devices, End-of-Car	2020	B	Update Available
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M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle-Carrying	2020	B	Update Available
M-921E	Cushioning Devices, Active Draft End	2020	B	Update Available
M-921F	Cushioning Devices, Active Draft End of Car	2020	B	Update Available
M-921G	Facility Inspection Requirements for Manufacturers of New and Reconditioned Cushioning Devices for Freight Service	2003	B	
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RP-227	Universal Pocket, 15-in. Cushion, E69 Coupler	1975	C	
RP-228	Universal Pocket, 10-in. Cushion, Low Deck—E69 Coupler	1975	C	
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S-2034	Car Builder Certification	2019	C	
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M-1002 Ch2	AAR Special Requirements for DOT Tank Cars	2018	C-III	Update Available
M-1002 AppA	Tank Car Valves and Fittings	2021	C-III	Update Available
M-1002 AppB	Certification of Tank Car Facilities	2020	C-III	Update Available
M-1002 AppD	Retest and Qualification Requirements	2021	C-III	Update Available
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M-1002 AppR	Repair, Alteration, and Conversion to Tank Car Tanks	2019	C-III	Update Available
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RP-307	Spring Test Machine	1961	D	
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M-619	Brake Cylinder Line Hose Assemblies—Performance Requirements	2005	E	
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S-369	Brake Beam Hangers and Attachments	1965	E	
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S-628	Combined Wheel Gauge	1998	G	
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Note: Click the “Update Available” link in the column entitled “Circulars?” to identify any circular letters that implement specifications, standards, or recommended practices revised since the MSRP section was last printed. Call 877-999-8824 with questions.

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S-180	Yoke, F Type, Cushioning, for Pocket EOC-1, EOC-2, and EOC-16	2020	S-III	
M-1004	Specifications for Fuel Tenders	2020	T	Update Available
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2017	T	Update Available
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2017	T	Update Available
S-5027	21-Point Control Plug, Cable Assembly, and Receptacle (TC-21 Tender Control Cable)	2017	T	Update Available
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2020	T	Update Available
S-5029	Safety Appliance Requirements for Intermodal Car-style Fuel Tenders	2020	T	Update Available
S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2020	T	Update Available
S-5031	Tender-fill Control Cable FC-18	2020	T	Update Available
S-5032	Tender-fill Ethernet Cable (FC-8)	2020	T	Update Available

Note: Click the “Update Available” link in the column entitled “Circulars?” to identify any circular letters that implement specifications, standards, or recommended practices revised since the MSRP section was last printed. Call 877-999-8824 with questions.

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

<u>DocNo.</u>	<u>Title</u>	<u>Change</u>
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
M-605	Hose-Steam and Hot Water	Archived 02/23/2007 via C-10469
M-608	Hose-Air, Pneumatic Tools	Archived 02/23/2007 via C-10469
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
M-907	Lumber-Classification Lumber-Nomenclature, Schedule, Grading Wood-Lumber Nomenclature, Grading, Sizes	Archived 08/10/2007 via C-10569
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
M-945	Adjustable Bulkheads Pneumatic Type for Box Cars	Archived 02/23/2007 via C-10467
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	Archived 02/23/2007 via C-10467
RP-222	Univ. Pocket-Cushion 15", E6OCHT Coupler	Archived 02/23/2007 via C-10467
RP-223	Univ. Pocket-Cushion 10, EGOCHT, E67AHT	Archived 02/23/2007 via C-10467
RP-224	Univ. Pocket-Cushion 15", E67AHT Coupler	Archived 02/23/2007 via C-10467
RP-225	Univ. Pocket-Cushion 10, E68AHT, F79AHT	Archived 02/23/2007 via C-10467
RP-226	Univ. Pocket-Cushion 10" E69HTE Coupler	Archived 02/23/2007 via C-10467
RP-229	Liquefied Petroleum Cylinder	Archived 02/23/2007 via C-10467
RP-230	Cradle Blocking, Cax Dumping Machine	Archived 02/23/2007 via C-10467
RP-235	Bolster-Body, Box Car	Archived 02/23/2007 via -10467
RP-236	Bolster-Body, Diagonal Brace, Hopper Car	Archived 02/23/2007 via C-10467
RP-237	Crossbearer-Box Car	Archived 02/23/2007 via C-10467
RP-238	Hopper Car-Crossbearer	Archived 02/23/2007 via C-10467
RP-239	Box Car-Crosstie	Archived 02/23/2007 via C-10467 but reinstated as S-239, its former number, 02/04/2012 via C-11615
RP-240	Door-Single, Sliding, Panel Type	Archived 02/23/2007 via C-10467
RP-241	Door-Double, Sliding, Panel Type	Archived 02/23/2007 via C-10467
RP-242	Door-Single, Plug, No. 3 Type	Archived 02/23/2007 via C-10467
RP-243	Door-Plug and Sliding No.3 Type	Archived 02/23/2007 via C-10467
RP-244	Door Arrangement Double Plug Type No. 3	Archived 02/23/2007 via C-10467
RP-245	Gondola Car-End Arrangement	Archived 02/23/2007 via C-10467
RP-246	Gondola Car-Drop End Arrangement	Archived 02/23/2007 via C-10467
RP-247	Box Car-End Arrangement	Archived 02/23/2007 via C-10467
RP-248	Hopper Car-End Arrangement	Archived 02/23/2007 via C-10467
RP-249	Box Car-Grain Door Nailers	Archived 02/23/2007 via C-10467
RP-250	Hopper Arrangement-Cast Steel Frame	Archived 02/23/2007 via C-10467 (formerly S-250)
RP-251	Hopper Arrangement-Two Piece Hopper	Archived 02/23/2007 via C-10467 (formerly S-251)
RP-252	Roof Arrangement-Diagonal Panel, Box Car	Archived 02/23/2007 via C-10467
RP-253	Refrigerator Car Specifications	Archived 02/23/2007 via C-10467
RP-254	Anti-Pilferage Device—Boxcar Sliding Door	Renumbered S-2049 4/25/2007
RP-255	Anti-Pilferage Device—Boxcar Plug Door	Renumbered S-2050 4/25/2007
RP-256	Floor Restraint, Intermodal Container Cars	Archived 02/23/2007 via C-10467
RP-257	Rail Compatible Vehicles	Archived 02/23/2007 via C-10467
RP-260	Double-Stack Container Cars	Archived 02/23/2007 via C-10467
RP-261	Center Bowl Liner and Lubricant—Double-Stack Container Car	Archived 11/25/2019 via C-13477
RP-300	Center Plate—Liner, Vertical 6 in. × 11 in.	Archived 07/14/2011 via C-11472
RP-301	Center Plate—Liner, Vertical 6 in. × 11 in.	Archived 07/14/2011 via C-11472
RP-305		Archived 07/14/2011 via C-11472
RP-5104	Locomotive Cab Seats	Archived 1/27/2016 via C-12559

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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
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-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
S-2040	Plate H—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935

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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 with Various Truck Centers	Archived 7/31/2017 via C-12935
S-2052	Plate K1—Maximum Width of Cars with Various 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
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
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
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

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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 Application	Archived 11/26/13 and again 8/5/15 via C-12429
S-590	Locomotive Electronics System Architecture	Archived 08/05/2015 via C-12430
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 Lubrication of 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
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 Cars Equipped with Loading Bars and Movable Bulkheads	Archived 08/06/2020 via C-13630
S-911	Clear Door Opening	Archived 08/06/2020 via C-13630
S-912	Clearance Plates	Archived 08/06/2020 via C-13630
S-913	Metrication Stenciling	Archived 08/06/2020 via C-13630
S-914	Loading Stencil—Refrigerator Car Floor	Archived 08/06/2020 via C-13630

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DISCLAIMER

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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-S
MSRP-C2	MSRP-G2	MSRP-K3	MSRP-S2
MSRP-C3	MSRP-H	MSRP-K4	MSRP-S3
MSRP-D	MSRP-H2	MSRP-K5	MSRP-T
MSRP-E	MSRP-I	MSRP-K6	

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)

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.

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Section C—Car Construction—Fundamentals and Details (2014)

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Book	09/24/2020	C-13653	Implementation of Revised MSRP Section C, Car Construction Fundamentals and Details, 2020

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

Doc Affected	Date	CL No.	Title
Book	11/30/2015	C-12506	Implementation of Revised AAR Manual of Standards and Recommended Practices Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars
Chapter 11	09/28/2017	C-12962	Implementation of Revisions to MSRP Section C Part II (Design, Fabrication and Construction of Freight Cars) and MSRP Section D (Trucks and Truck Details), Specifications M-1001 Chapter 11 Service-Worthiness Tests and M-976 Truck Performance for Rail Cars
Chapter 2	10/25/2017	C-12973	Implementation of Revision to MSRP Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars, Chapter 2—General Data: Addition of Cooper Bridge Rating Criteria, and Clarification of Coupler Height
Chapter 1	10/25/2017	C-12971	Implementation of Editorial Revisions to MSRP Section C Part II, Design, Fabrication, and Construction of Freight Cars, Specification M-1001, Chapter 1 Administrative Provisions, Edits Related to Standard S-2044 Safety Appliance Requirements
Chapter 4 Chapter 6	11/7/2017	C-12989	Implementation of Revisions to MSRP Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars, Chapter 4—Design (Live load diagrams, Jacking), and Chapter 6—General Design and Test Requirements—Tank Cars (Jacking)
Chapter 4	1/5/2018	C-13046	Implementation of Editorial Revision to MSRP Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars, Chapter 4 Design
Chapter 6	04/11/2018	C-13093	Implementation of Revision to MSRP Section C—Part II Design, Fabrication, and Construction of Freight Cars, Specification M-1001 Chapter 6 General Design and Test Requirements—Tank Cars. Additional design guidance for tank car sill reinforcing pads
Chapter 4	03/10/2019	C-13288	Implementation of Revision to MSRP Section C-II Design, Fabrication, and Construction of Freight Cars, Chapter 4 Design. Editorial Change to the Longitudinal Force Design Requirements for Bulkhead Flat Cars
Chapter 11	04/20/2020	C-13536	Implementation of Revisions to MSRP Section D, Trucks and Truck Details, Specification M-976 Truck Performance for Rail Cars, and Section C Part II, Specification M-1001 Chapter 11. Addition of Traction Ratio Test and associated edits.

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

Doc Affected	Date	CL No.	Title
Book	10/31/2014	CPC-1310	Availability of November 2014 version of the AAR Manual of Standards and Recommended Practices (MSRP), Section C Part III, Specifications for Tank Cars, M-1002
Chapter 2	04/7/2017	CPC-1325	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Chapter 2	07/27/2018	CPC-1336	Final Action, Update to revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Chapter 1 Appendix B	10/24/2018	CPC-1338	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B—Certification of Tank Car Facilities and Associated Chapter 1 Definitions (Docket T91.2.4)
Chapter 2	12/04/2018	CPC-1341	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Appendix A Appendix M	12/12/2018	CPC-1342	Revision to the Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Appendix A and M
Chapter 1 Appendix D Appendix J	01/24/2019	CPC-1343	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 1, Appendix D, and Appendix J
Chapter 1 Appendix B Appendix J Appendix L Appendix R	11/05/2019	CPC-1350	Implementation of Editorial Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B—Certification of Tank Car Facilities and Associated Chapter 1 Definitions (Docket T91.2.4)
Chapter 1 Appendix B	12/20/2019	CPC-1354	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 1, Appendix B
Appendix B	04/14/2020	CPC-1362	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B - Certification of Tank Car Facilities (Docket T91.2.4)
Chapter 1 Appendix A Appendix D	03/10/2021	CPC-1375	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1, Appendix A, and Appendix D (Docket T100.22.1)

Section D—Trucks and Truck Details (2019)

Doc Affected	Date	CL No.	Title
Book	12/06/2019	C-13489	Implementation of Revised AAR Manual of Standards and Recommended Practices Section D, Trucks and Truck Details Manual Now Available
M-976	04/20/2020	C-13536	Implementation of Revisions to MSRP Section D, Trucks and Truck Details, Specification M-976 Truck Performance for Rail Cars, and Section C Part II, Specification M-1001 Chapter 11. Addition of Traction Ratio Test and associated edits.

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Section E—Brakes and Brake Equipment (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	Implementation of Editorial Revisions to MSRP Section E—Brakes and Brake Equipment, Standards: S-461, S-462, S-463, and S-464 to Better Clarify the Purpose of the Test Rack Standards—Revised 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

Section E, Part 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 2)

Doc Affected	Date	CL No.	Title
Book	04/10/2020	C-13527	Implementation of Revised MSRP, Section F - Sensors
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 of Data Glossary Elements for Side Frames and Bolsters

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

Doc Affected	Date	CL No.	Title
S-920	03/10/2021	C-13754	Additions to MSRP Section F, SENSORS S-920 AAR Component Identification Bar Code Standard: Tank Car Service Equipment: Pressure Relief Valves (PRV)

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, Part II—Wheel and Axle (Shop) Manual (2019)

Doc Affected	Date	CL No.	Title
Book	02/04/2019	C-13275	Implementation of Revised MSRP Section G, Part II, Wheel and Axle Manual, 2019
S-659 RP-631 RP-632 RP-633	04/19/19	C-13311	Implementation of Revisions to MSRP Section G-II, Wheel and Axle Manual, S-659, RP-631, RP-632, and RP-633, Southern CJ-33, Wheel Storage, Bearing Storage, and Vertical Split Rim
RP-633	03/27/2020	C-13523	Implementation of Revisions to MSRP Section G-II, Wheel and Axle Manual, RP-633, Axle W Dimension References and Axle K Dimension Update
RP-631	06/02/2020	C-13594	Implementation of Revisions to MSRP Section G-II, Wheel and Axle Manual, RP-631, MD-11 Reporting and Bearing External Inspection
S-659 RP-633	09/17/2020	C-13648	Implementation of Revisions to MSRP Section G, Wheels and Axles, M-107/M-208, and S-658, and MSRP Section G-II, Wheel and Axle Manual S-659, and RP-633, AAR-2A Standard Profile, AMFLEET Axle Relief Grooves, and Wheel Seat Measurement

Section H—Journal Bearings and Lubrication (2016) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	07/20/2016	C-12695	Implementation of Revised MSRP Section H, Journal Bearings and Lubrication, 2016
M-924	02/08/2017	C-12820	Implementation—Revision to MSRP Section H, Journal Bearings and Lubrication, Specification M-924, Adapter Finish
M-924 M-934 M-934C M-942	06/01/2018	C-13154	Implementation of Revisions to MSRP Section H, Journal Bearings and Lubrication, M-924, M-934, M-934C, and M-942, Backing Rings, Grease and Seal Combinations
S-703	02/13/2019	C-13280	Implementation of Revisions to MSRP Section H, Journal Bearings and Lubrication, S-703, Cap Screw Tolerances

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Section H—Journal Bearings and Lubrication (2016) (page 2 of 2)

Doc Affected	Date	CL No.	Title
M-934 M-934E M-942 M-959	08/12/2019	C-13397	Implementation of Revisions to MSRP Section H, Journal Bearings and Lubrication, M-934, M-934E, M-942, and M-959, Ambient Testing Temperature, Grease Corrosion Resistance, Approved Seal Updates, and Seal Testing
M-942	09/17/2020	C-13649	Implementation of Editorial Revisions to MSRP Section H, Journal Bearings and Lubrication, M-942 Appendix E, AAR-Approved Roller Bearing Grease and Seal Combinations - Update

Section H, Part II—Roller Bearing (Shop) Manual (2017)

Doc Affected	Date	CL No.	Title
Book	05/02/2017	C-12865	Implementation of Revised MSRP Section H, Part II, Roller Bearing Manual, 2017
S-721	02/12/2018	C-13068	Implementation of Revisions to MSRP Section H-II, Roller Bearing Manual, S-721, Brinelling Description
S-723 S-725	10/18/2018	C-13212	Implementation of Revisions to MSRP Section H-II, Roller Bearing Manual, S-723 and S-725, Seal Wear Ring Marking, Secondhand Spacer Requirement, and Interchangeable Parts
S-723	08/12/2019	C-13396	Implementation of Editorial Revisions to MSRP Section H-II, Roller Bearing Manual, S-723, Update of Bearing Production Status and Service Limit Charts
S-723	03/30/2020	C-13525	Implementation of Revisions to MSRP Section H-II, Roller Bearing Manual, S-723 and S-725, Secondhand Seal Wear Ring Parallel Requirement

Section I—Intermodal Equipment Manual (2018)

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

Section J—Specification for Quality Assurance, M-1003 (2019)

Doc Affected	Date	CL No.	Title
Book	10/15/2019	C-13420	Implementation of Revision to MSRP Section J, M-1003 Specification for Quality Assurance
M-1003	09/04/2020	C-13644	Implementation of Revisions to Appendix A of Section J, Specification for Quality Assurance M-1003

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**Section K, Part I—Railway Electronics Systems Architecture and Concepts of Operation
(2014)**

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
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

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Section K, Part II—Locomotive Electronics and Train Consist System Architecture
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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.V2.1	11/2/2015	C-12465	New Circular Letter Release: Implementation of Revision to MSRP, Section K-II, Specification M-9155.V2.1 - 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
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

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**Section K, Part II—Locomotive Electronics and Train Consist System Architecture
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Doc Affected	Date	CL No.	Title
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

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Section K, Part III—Wayside Electronics and Mobile Worker Communications Architecture (2014)

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-9203.V1.1	04/27/2020	C-13547	Implementation of AAR Manual of Standards and Recommended Practices (MSRP), Section K-III Office Architecture and Railroad Electronics Messaging, Standard S-9203.V1.1
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, Part 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

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**Section K, Part IV—Office Architecture and Railroad Electronics Messaging
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Doc Affected	Date	CL No.	Title
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
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

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**Section K, Part IV—Office Architecture and Railroad Electronics Messaging
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Doc Affected	Date	CL No.	Title
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
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

**Section K, Part V—Electronics Environmental Requirements and System Management
(2014)**

Doc Affected	Date	CL No.	Title
S-9460.V1.0	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

**Section K, Part 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

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**Section K, Part VI—Railway Electronics Data Management and Communications
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Doc Affected	Date	CL No.	Title
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

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

Section N—Multi-Level Manual (2017)

Doc Affected	Date	CL No.	Title
Book	04/14/2020	C-13531	Implementation of Revised AAR Manual of Standards and Recommended Practices Section N, Multi-Level Manual
M-951	09/09/2020	C-13646	Implementation of Revisions to MSRP Section N, Specification M-951, Portable Bridge Plates for Multi-Level Auto Rack Cars

Section S, Part I—Casting Details (2018)

Doc Affected	Date	CL No.	Title
Book	11/06/2018	C-13226	Implementation of Revised MSRP Section S, Casting Details, 2018
M-975	01/15/2020	C-13503	Implementation of Editorial Revisions to MSRP Section S, Casting Details, Specification M-975, Span Bolster, Regarding Correction of an Equation and a Test Parameter
M-214 M-220	01/29/2020	C-13505	Implementation of Revisions to MSRP Section S, Casting Details, Specifications M-214 and M-220, Regarding Inspection and Reconditioning of Side Frames and Bolsters for Interchange Service Past 52 Years from Date Cast
M-220	08/03/2020	C-13623	Implementation of Revisions to MSRP Section S, Casting Details, Specification M-220, Casting Component Nondestructive Testing Requirements, Regarding Updates to Inspection Requirements

Section S, Part 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

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Section S, Part 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

Section T—Interoperable Fuel Tenders for Locomotives (Not Yet Published)

Doc Affected	Date	CL No.	Title
S-5027	08/02/2017	C-12936	Implementation of New MSRP Section T, S-5027 21-Point Control Plug, Cable Assembly and Receptacle (TC-21 Tender Control Cable)
S-5025 S-5026	08/02/2017	C-12937	Implementation of New MSRP Section T, S-5025 Gaseous Natural Gas Supply Hose Unit for Natural Gas Fuel Tenders and S-5026 Heat Exchange Fluid Hose Unit for Natural Gas Fuel Tenders
M-1004	08/02/2017	C-12938	Implementation of New MSRP Section T, M-1004 Specification for Fuel Tenders
M-1004	10/25/2017	C-12976	Implementation of Appendix J Inspections and Maintenance, to be added to M-1004 Specification for Fuel Tenders
M-1004	12/07/2017	C-13034	Implementation of Revised MSRP Section T, M-1004 Specification for Fuel Tenders, Including the Addition of New Appendix G, Wiring and Electrical Hardware
M-1004	09/10/2019	C-13408	Implementation of Revised MSRP Section T M-1004 Specification for Fuel Tenders to Include Aspects for CNG-Style Tenders
M-1004 S-5028 S-5029 S-5030	12/01/2020	C-13714	Implementation of Revisions to MSRP Section T Interoperable Fuel Tenders For Locomotives, Specification M-1004, Specification for Fuel Tenders, and Supporting New Standards S-5028, S-5029 and S-5030
S-5031 S-5032	12/01/2020	C-13715	Implementation of Revisions to MSRP Section T Interoperable Fuel Tenders For Locomotives, New Standards S-5031 and S-5032 for Tender Fill Electrical Cables

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