

Association of American Railroads

SAFETY AND OPERATIONS

MANUAL OF STANDARDS AND RECOMMENDED PRACTICES SECTION A-I

TABLES OF CONTENT

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

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**MSRP A-I
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CONTENT**

The Section A-I Tables of Content lists the standards, specifications, and recommended practices that are contained in each volume of the AAR *Manual of Standards and Recommended Practices (MSRP)*. This information is updated every week, and is available for no cost at <https://aar.com/standards/MSRPs/MSRP-A1.pdf>.

**MSRP AS
ADMINISTRATIVE
STANDARDS
SUPPLEMENT**

MSRP AS serves as a supplement to all MSRP sections and is available as a free download at <https://aarpublications.com/msrp.html>. All subscribers are governed by the administrative standards in MSRP AS in addition to the standards and specifications in each section of the MSRP.

**TECHNICAL
QUESTIONS**

For technical questions regarding this manual, use the email address appropriate to this manual from the following list.

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

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TO THE USER

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

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

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

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

In addition, this manual provides for historical reference a list of documents that have been archived or renumbered.

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

HOW TO USE THIS INDEX

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

1. Locate a document by its number using the Numeric Index on page A-I-1.
2. Locate a document by its title using the Alphabetic Index on page A-I-31.
3. Locate a document by searching a particular section in the Section Index on page A-I-61.

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

DISCLAIMER

The “Current Circular Letters” section lists the Circular Letters that have been issued subsequent to the release of the MSRP specifications, standards, and recommended practices shown in MSRP-A1. This list is intended to improve 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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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-813	Handling of Multi-Level Cars in Trains and Yards	2023	N	
RP-814	Inspection of Multi-Levels and Vehicles En Route	2023	N	
RP-815	Railroad Police Protection	2023	N	
RP-816	Unloading of Vehicles	2023	N	
RP-817	Destination Inspections	2023	N	
RP-818	Handling of Multi-Level Cars and Equipment After Unloading	2023	N	
RP-830	Form Preparation for Vehicle Inspection	2023	N	
RP-831	Standard Vehicle Nomenclature	2023	N	
RP-851	Double-Stack Container Cars	2004	I	
RP-852	Intermodal Equipment Cars	2025	I	
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RP-899	Car Owner's Manual for the Inspection and Maintenance of Double-Stack Container Cars	2025	I	

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RP-5209	Basic Brake Design Data for Freight Locomotives (RETIRED 05/20/2024)	2024	M	Update Available
RP-5503	Locomotive Fueling Interface	2001	M	
RP-5523	Axle Nomenclature Arrangement—Locomotives	2001	M	
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	M	
RP-5596	Brake Shoes—Metal Type	2001	M	
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RP-9203.V1.1	AEI Reader Equipment Requirements	2025	F	Update Available

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S-470	Angle Cock, Ball Type—Specification for Approval	2002	E	
S-471	Brake Pipe Restriction Test	2010	E	
S-472	End Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
S-473	Brake Equipment—Application Form for AAR Approval of New and Untried Freight Cars	2003	E	
S-475	Hand Brakes	2024	E	Update Available
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S-477	Control Valve—Shop Certification Requirements for Approved Valves	2002	E	
S-486	Code of Air Brake System Tests for Freight Equipment—Single Car Test	2018	E	
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S-495	Angle Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
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S-580	Locomotive Crashworthiness Requirements	2020	M	
S-591	Locomotive System Integration Operating Display	2020	M	

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S-628	Combined Wheel Gauge	1998	G	
S-629	Limit Wear Gauge for Condemning Wheel Defect—Worn Journal Collar and Journal Fillet Gauge	1998	G	
S-630	Steel Wheel Gauge	2013	G	
S-631	Gauge, Wheel—Alternate Combination Gauge for Wheel Measurements	2025	G	Update Available
S-632	Gauge, Wheel—Alternate Combination Gauge for Wheel Measurements including Locomotive Flange Limit of 0.875 in.	2025	G	Update Available
S-649	Axles—Manufacturing Facility Inspection by Technical Services	2004	G	
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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	2022	G-II	
S-660	Wheel Designs, Locomotive and Freight Car—Analytic Evaluation	2009	G	
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S-720	Tabulation of Adapters and Frame Keys for AAR-Approved Roller Bearings	2008	H	
S-727	Appendix A Approved Materials	2015	G-II	
S-732	Inspection and Lubrication of Trailer Hitches on Flatcars	2025	I	
S-735	Approval Requirements for Reconditioners and Remanufacturers of Roller Bearings	2025	H-II	Update Available
S-736	Minimum Acceptance and Rejection Criteria	2025	H-II	Update Available
S-737	Requirements for Roller Bearing Reconditioning	2025	H-II	Update Available
S-738	Repair Procedure Spalls, SWR, and Press Fit	2025	H-II	Update Available
S-739	Interchangeable Roller Bearing Requirements	2024	H-II	
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S-810	Field Impact and Over-the-Road Tests of Multi-Level Tie-down Equipment and/or Methods	2023	N	
S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	2023	N	
S-910	Marking of Freight Cars	2023	C	Update Available
S-916	Retroreflective Comparator Panel Requirements	2018	C	
S-920	AAR Component Identification (CID) Bar Code Standard	2026	F	
S-2008	Card Holder—Bad Order	2013	C	
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S-2025	Hopper Car—End for Door Operating Shaft	1914	C	
S-2034	Car Builder Certification (ARCHIVED 12/29/2025)	2019	C	Update Available
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	
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S-2042	Performance Specification for Sill Steps	2017	C	
S-2043	Performance Specification for Trains Used to Carry High-Level Radioactive Material	2024	C	Update Available
S-2044	Safety Appliance Requirements for Freight Cars	2025	C	Update Available
S-2044	Safety Appliance Requirements for Freight Cars	2025	C	Update Available
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S-2044	Safety Appliance Requirements for Freight Cars	2025	C	Update Available
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S-2045	Remote Monitoring Equipment, Installation	2024	C	Update Available
S-2046	Accelerated Fatigue Test Specification for Increased Life Status Applications	2006	C	
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S-2054	Clearance Diagram—Interface Between a Well Car and a Container Equipped with a Refrigerator/Heater Unit	2016	C	

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S-2056	Clearance Plate Diagrams for Interchange Service	2024	C	Update Available
S-2057	Draft Arrangements, 24 5/8-In. Pocket	2026	C	Update Available
S-2058	Non-Hydraulic Energy Management Systems (EMS) with Buff Travel of 6" or More	2026	C	Update Available
S-3001	Approval of AAR-Approved Brake Beam Safety Supports	1984	E	
S-3005	Universal Brake Beam Gauge	1985	E	
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S-3008	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
S-3009	Specification for Self-Locking Cotter Keys	1992	E	
S-3010	Side Frame, Standard Pedestal-Type with Side Frame Key—Limiting Dimensions	1947	S-II	
S-3011	Side Frame, Standard Pedestal-Type Size 6 in. × 11 in. with Side Frame Key—Limiting Dimensions	1997	S-II	
S-3012	Side Frame, Alternate Standard Pedestal-Type with Side Frame Key—Application of Roller Bearing Unit	1994	S-II	
S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	
S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
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S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2024	D	
S-4000	Brake Pipe Reduction Devices, Freight Auxiliary—Environmental Tests	1984	E	
S-4001	Rubber Products—Performance	2018	E	
S-4002	Empty/Load Devices—Performance Testing	2005	E	
S-4003	Train Line Arrangement for Cars with F-Shank Couplers	2005	E	
S-4004	Brake Cylinder—Performance Testing	2002	E	
S-4005	Brake Systems, Truck-Mounted—Performance Testing	2002	E	
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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 (ARCHIVED 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	2026	E	Update Available
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-4031	Trainline Arrangement for Cars with E-Type Couplers and with Draft System Buff Travel of 6 to 10 Inches	2024	E	
S-4032	Trainline Arrangement for Cars with E/F-Type Couplers and Draft System Buff Travel of 6 to 10 Inches	2024	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	
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S-5018	Dynamic Braking Control	2025	M	Update Available
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	2023	T-III	
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2023	T-III	
S-5027	21-Point Control Plug, Cable Assembly, and Receptacle (TC-21 Tender Control Cable)	2023	T-III	
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S-5029	Safety Appliance Requirements for Intermodal Car-style Fuel Tenders	2023	T-III	
S-5030	Safety Appliance Requirements for Enclosed Car Body-style Fuel Tenders	2023	T-III	
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S-5101	Locomotive Cab Window Glazing Material	2002	M	
S-5500	Locomotive Interchange Agreement	2007	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 (ARCHIVED 02/22/2021)	2021	M	Update Available
S-5513	Locomotive Alerter Requirements	2021	M	Update Available
S-5514	Locomotive Operator Control Symbols	2011	M	
S-5515	LED Lighting for Locomotives	2017	M	
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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	2021	F	
S-6001	Bearing Temperature Performance	2023	F	
S-6002	Data Summary Definitions	2021	F	
S-6003	Data Summary—Truck Hunting	2021	F	
S-6004	Data Summary—TADS®	2021	F	
S-6005	Data Summary—RailBAM®	2021	F	
S-6006	Data Summary—Brake Health Truck	2021	F	
S-6007	Data Summary—Brake Health Car	2015	F	
S-6008	Data Summary—Salient Wheel Impact	2022	F	
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2021	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	2021	F	
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S-6031	Inoperative Brake Indications as Determined by Wayside Detector	2016	F	
S-6100	Wayside Detector Data Processing	2016	F	
S-6101	Detector Calibration and Validation Requirements	2025	F	
S-6101A	Detector Validation Table	2025	F	
S-6101B	Industry Data Validation: Wheel Impact Load Detector	2026	F	
S-6102	Wayside Passing Data Format	2026	F	
S-6103	Wheel Profile Detector	2022	F	
S-6200	Machine Vision Detector	2021	F	
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S-9002	Railroad Electronics Standards Configuration Management	2009	K-I	
S-9008.V1.0	PTC Security Architecture 2 (PSA 2)	2024	K-I	
S-9008.V1.1	PTC Security Architecture 2 (PSA 2)	2025	K-I	Update Available
S-9010	Data Protection	2019	K-I	Update Available
S-9051.V1.0	ITC Onboard PTC Application (OPA) Requirements	2024	K-I	
S-9051.V1.1	ITC Onboard PTC Application (OPA) Requirements	2026	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-9070	ITC Human Machine Interface Standard	2025	K-I	
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S-9074	Federated Network Requirements	2020	K-I	Update Available
S-9075	ISMP Design Considerations	2022	K-I	Update Available
S-9076	ITC Systems Management Interoperable Gateway Requirements	2021	K-I	Update Available
S-9080.V3	Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available
S-9080.V4	Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available
S-9080.V5	Positive Train Control Interoperability Committee Policy	2024	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.V1.2	Locomotive Electronics System Architecture	2019	K-II	Update Available
S-9101.V1.3	Locomotive Electronics System Architecture	2025	K-II	Update Available
S-9101.V1.2.1	Locomotive Electronics System Architecture	2022	K-II	Update Available
S-9101B.V1.0	Locomotive Data Acquisition and Recording System Architecture	2011	K-II	
S-9101C.V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	Update Available
S-9101E.V1.1	Locomotive System Integration Communications	2016	K-II	Update Available
S-9101F.V1.2	Appendix F-Version 1.2 Locomotive Interface Gateway (LIG) Segment and Locomotive Application (LAPP) Segment Subsystems Addresses	2022	K-II	Update Available
S-9101G.V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II	Update Available
S-9102.V1.0	Locomotive Electronics and Train Control System Architecture	2022	K-II	Update Available
S-9103	Precision Navigation Module Interface Control Document (ICD)	2021	K-II	Update Available
S-9103.V1.1	Precision Navigation Module Interface Control Document (ICD)	2025	K-II	Update Available
S-9152	End-of-Train Communications	2016	K-II	Update Available

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S-9170.V1.0	Locomotive Precision Navigatio Module (PNM) Specification	2025	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.V1.1	Automatic Equipment Identification	2020	F	Update Available
S-9203C.V5.0	AEI Site to Host Consist & Wayside Report Format	2025	F	Update Available
S-9353.V1.0	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	Update Available
S-9353.V1.1	Railroad Electronics Standards Committee (RESC) Data Dictionary	2021	K-IV	Update Available
S-9354	Edge Message Protocol	2018	K-IV	Update Available
S-9354.V3.0	Edge Message Protocol	2025	K-IV	Update Available
S-9354 Appx B V1.0	EMP Message IDs	2025	K-IV	Update Available
S-9355 V1.0	Class C Messaging	2010	K-IV	
S-9355 V2.0	Class C Messaging	2022	K-IV	Update Available
S-9355 AppA.V1.0	Appendix A Version 1.0 Class C Messaging Class C Multicast Message Groups	2022	K-IV	Update Available
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-9361 V3.1	Positive Train Control Office-Locomotive Segment—Interface Control Document (ICD)	2021	K-IV	Update Available

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S-9362 V2.0	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2023	K-IV	
S-9363	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2012	K-IV	
S- 9363.V1.1	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2024	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-9370.V1.0	Interoperable Event and Status Service	2022	K-IV	Update Available
S-9371.V1.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2014	K-IV	Update Available
S-9371.V2.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available
S-9371.V3.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2021	K-IV	Update Available
S-9371.V4.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2022	K-IV	Update Available
S-9372.V1.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2014	K-IV	Update Available
S-9372.V1.1	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2016	K-IV	Update Available
S-9372.V2.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2018	K-IV	Update Available
S-9372.V3.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2023	K-IV	Update Available
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-9378.V1.0	Interoperable Train Control Ticket Management (ITCTM) Interface Control Document (ICD)	2021	K-IV	Update Available
S-9379	Requirements for Using an ITC EMP Application Gateway	2018	K-IV	Update Available
S-9382.V1	Interoperable Asset Access Service	2022	K-IV	Update Available
S-9401	Railroad Electronics Environmental Requirements	2009	K-V	

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S-9418.V1.0	PSA-2 Gateway Requirements	2024	K-V	
S-9418.V1.1	PSA-2 Gateway Requirements	2025	K-V	Update Available
S-9419.V1	PSA-2 Back Office Application Requirements	2023	K-V	
S-9420.V1.0	ITC Key Management Service	2024	K-V	
S-9420.V1.1	ITC Key Management Service	2025	K-V	Update Available
S-9421.V1.0	WIU ITCSM Agent Requirements to Support PSA-2	2024	K-V	
S-9451	ITCSM Common Systems Management Requirements	2014	K-V	
S-9451A.V1	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	
S-9451A.V2	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2021	K-V	Update Available
S-9452	ITCSM Common Data Dictionary for Interoperable Train Control	2018	K-V	Update Available
S-9452.V3.1	ITCSM Common Data Dictionary for Interoperable Train Control	2024	K-V	Update Available
S-9452A.V2	ITCSM WIU Asset-specific Data Dictionary for Interoperable Train Control	2021	K-V	Update Available
S-9452B.V1.0	OPA Data Dictionary	2025	K-V	Update Available

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S-9460	ITCSM Interface Control Document for Interoperable Train	2018	K-V	Update Available
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S-9501.V4.0	Positive Train Control Data Model Definition	2024	K-VI	Update Available
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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-9502.V2.0	PTC Track Data Exchange	2024	K-VI	Update Available
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	Update Available
S-9503.V3.0	ITC Track Data File Format	2022	K-VI	Update Available
S-9504	PSA-2 W-OPK File Service Requirements	2023	K-VI	
S-9506.V1.0	ITC Data Exchange Business Processes	2025	K-VI	
S-9552	Railroad Communications Network	2004	K-VI	
S-9553	Communications System Architecture	2002	K-VI	
S-9553A	Mobile Communications Package	2002	K-VI	
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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
S-9558.V1.0	Interoperable IP Network Address Allocations	2021	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	2026	F	
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	2021	F	
S-704	Adapter for Use with AAR Standard Pedestal-Type Side	1968	H	
M-947	Adhesive-Backed Films for Marking Cars—Performance-Based Requirements	2015	C	
RP-9203.V1.1	AEI Reader Equipment Requirements	2025	F	Update Available
S-9203C.V5.0	AEI Site to Host Consist & Wayside Report Format	2025	F	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	
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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-727	Appendix A Approved Materials	2015	G-II	
S-9355	Appendix A Version 1.0 Class C Messaging Class C AppA.V1.0 Multicast Message Groups	2022	K-IV	Update Available
M-1002	Appendix A: Tank Car Service Equipment Appendix A	2025	C-III	Update Available
M-1002	Appendix B: Certification of Tank Car Facilities Appendix B	2025	C-III	Update Available
M-1002	Appendix E: Design Details Appendix E	2025	C-III	Update Available
S-9101F V1.2	Appendix F-Version 1.2 Locomotive Interface Gateway (LIG) Segment and Locomotive Application (LAPP) Segment Subsystems Addresses	2022	K-II	Update Available
S-060	Application for Component Approval Procedure	2015	AS	Update Available
S-379	Application Tolerances for Hanger-Type Brake Beams	unk	E	
S-3001	Approval of AAR-Approved Brake Beam Safety Supports	1984	E	
S-9415.V1.0	Automated Certificate Update	2024	K-V	
S-735	Approval Requirements for Reconditioners and Remanufacturers of Roller Bearings	2025	H-II	Update Available
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	2026	E	Update Available
S-5502	Automatic Engine Start/Stop System	2011	M	
S-9203.V1.1	Automatic Equipment Identification	2020	F	Update Available

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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	2026	G	Update Available
M-985	Bad Order Device for Identification of Defective Hitches	2025	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 (ARCHIVED 05/20/2024)	2024	M	Update Available
S-2039	Batten Bars	2014	C	
S-6001	Bearing Temperature Performance	2023	F	
M-131	Blooms, Billets, and Slabs—Alloy Steel	1964	S	
S-211	Body Center Plate Gauge—14-in. and 16-in. Diameter	1976	C	
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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	
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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	
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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
S-473	Brake Equipment—Application Form for AAR Approval of New and Untried Freight Cars	2003	E	
S-400	Brake Equipment—Installation Specifications	2026	E	Update Available
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	
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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	
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S-431	Brake Shoe, High-Friction Composition Type—Limiting Contour	2017	E	

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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	2025	M	Update Available
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	2021	H	
S-2034	Car Builder Certification (ARCHIVED 12/29/2025)	2019	C	Update Available
RP-899	Car Owner’s Manual for the Inspection and Maintenance of Double-Stack Container Cars	2025	I	
S-742	Car Repair Track Information Specific to Roller Bearings	2024	H-II	
S-2008	Card Holder—Bad Order	2013	C	
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S-307	Center Bowl Horizontal Wear Liner	2017	D	
M-979	Center Bowl Liner—Requirements for Approval	2024	D	
S-265	Center Pin—Freight Car	1989	C	
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 Chapter 1	Chapter 1: Introductions, Approvals, and Reports	2025	C-III	Update Available
M-1002 Chapter 2	Chapter 2: AAR Special Requirements for DOT Tank Cars	2026	C-III	Update Available
S-612	Circumference Measure (Tape) for 27 in. to 38 in. Steel Wheels	2004	G	
S-613	Circumference Measure (Tape) for 38 in. to 52 in. Steel Wheels	2004	G	
S-9355 V1.0	Class C Messaging	2010	K-IV	

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S-9356	Class D Messaging	2018	K-IV	Update Available
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S-2056	Clearance Plate Diagrams for Interchange Service	2024	C	Update Available
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	
S-255	Combined Striker and Front Draft Lug Tolerances	1974	C	
S-627	Combined Wheel Gauge	1998	G	
S-628	Combined Wheel Gauge	1998	G	
S-9153	Common Air Interface (CAI-12) Communications FOR Remote Control Locomotive Systems (RCL) Operating AT 220 Mhz	2012	K-II	
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	
M-970	Condition-Based Certification of Multi-Level Auto Rack Cars	2023	N	
S-051	Conditions Governing Withdrawal of AAR Approval of Freight Car and Locomotive Components and Products	2000	AS	
S-810	Field Impact and Over-the-Road Tests of Multi-Level Tie-down Equipment and/or Methods	2023	N	
S-2053	Container Interface—Well Car, 53 ft	2009	C	
M-930	Containers for Domestic Intermodal Service	2025	I	
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	
S-131	Coupler (Rotary), Type E60, Operating Rod, use with up to 6 1/2-in. Total Draft Gear Travel	2016	S-III	

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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	S-III	
M-932	Coupler Centering Device Specification	2003	S-III	
S-117	Coupler Contour, F Type, Interlocking	2003	S-III	
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S-130	Coupler, E Type, Articulated Rotor Lever Assembly	2003	S-III	
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M-212	Couplers and Yokes, Secondhand—Classification and Reconditioning Procedure	2025	S-I	
S-129	Couplers—Arrangement of Operating Mechanisms	2000	S-III	
M-215	Coupling Systems	2018	S-I	
RP-5115	Cushion Pad—Locomotive Cab Door Frame	2001	M	
S-122	Cushion Shaft Retainer	2025	B	
RP-110	Cushioning Device Inspection	2003	B	
M-921E	Cushioning Devices, Active Draft End	2024	B	Update Available
M-921F	Cushioning Devices, Active Draft End of Car	2024	B	Update Available
M-921B	Cushioning Devices, End-of-Car	2024	B	Update Available
M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle-Carrying	2024	B	Update Available
M-921H	Cushioning Devices, End-of-Car, General Requirements	2024	B	Update Available
M-921C	Cushioning Devices, Reconditioned—Approved for Freight Service	2024	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	2021	F	
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S-6022	Data Summary Definition—Line-of-Road Failure—Train Separation	2016	F	
S-6002	Data Summary Definitions	2021	F	
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2021	F	
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S-6006	Data Summary—Brake Health Truck	2021	F	
S-6005	Data Summary—RailBAM®	2021	F	
S-6008	Data Summary—Salient Wheel Impact	2022	F	
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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 AAR <i>Manual of Standards and Recommended Practices</i>	2025	AS	Update Available
M-1001 Chapter 4	Design	2025	C-II	Update Available
RP-308	Design Dimensions for Brake Hanger Bracket	1937	E	
M-1001	Design, Fabrication, and Construction of Freight Cars	2023	C-II	
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M-992	Designated Satellite Shop Repair Specifications for Multi-Level Autorack Cars	2024	N	
RP-514	Designation of Sides and Ends of Locomotives	2001	M	
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S-6101A	Detector Validation Table	2025	F	
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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	
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S-244	Draft Arrangement, E69 Coupler, 24 5/8-in. Pocket	1983	C	
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S-247	Draft Arrangement, F79 Coupler, 24 5/8-in. Pocket	1978	C	
S-2057	Draft Arrangements, 24 5/8-In. Pocket	2026	C	Update Available
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S-5018	Dynamic Braking Control	2025	M	Update Available
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 B Brake System Configuration Management	2008	E-II	
S-4220	ECP Cable-Based Brake DC Power Supply—Performance Specification	2002	E-II	
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S-9354	Edge Message Protocol	2018	K-IV	Update Available
S-9354.V3.0	Edge Message Protocol	2025	K-IV	Update Available
S-9376	Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)	2016	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	
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M-941	End Enclosure for Fully Enclosed Multi-Level Auto Rack Cars	2023	N	

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M-902	End-of-Car Energy Management Systems	2024	B	
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	2024	B	Update Available
S-9074	Federated Network Requirements	2020	K-I	Update Available
S-101	Field Service Experience—Reporting Requirements	2003	S-III	
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	2025	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	
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M-964	Floor, Nailable Steel—Freight Cars 50,000-, 60,000-, 70,000- or 80,000-lb Capacities	2006	C	
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M-126	Forgings, Carbon Steel	1968	S-I	
M-105	Forgings, Carbon Steel Blooms, Billets, and Slabs	1964	S-I	
RP-830	Form Preparation for Vehicle Inspection	2023	N	
M-211	Foundry and Product Approval Requirements for the Manufacture of Couplers, Coupler Yokes, Knuckles, Follower Blocks, and Coupler Parts	2023	S-I	
S-286	Free/Unrestricted Interchange for 286,000 lb Gross Rail Load Cars	2022	C	Update Available
M-934	Freight Car Journal Roller Bearings	2021	H	
S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
S-3015	Freight Car Truck Springs—without Load-Carrying Snubber	2024	D	
M-980	Friction Wedge Performance for Railcars—Dynamic Wear Test	2024	D	
S-9553B	Front End Processor	2002	K-VI	
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2023	T-III	
M-602	Gaskets, Air Hose	2002	E	

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S-631	Gauge, Wheel—Alternate Combination Gauge for Wheel Measurements	2025	G	Update Available
S-632	Gauge, Wheel—Alternate Combination Gauge for Wheel Measurements including Locomotive Flange Limit of 0.875 in.	2025	G	Update Available
RP-637	Gauge, Wheel—Application Drawing for AAR 1B Wheel Gauges S-661 and S-665	1991	G	
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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	
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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-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	
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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	2025	G-II	Update Available
M-1001 Chapter 2	General Data	2025	C-II	Update Available
M-1001 Chapter 6	General Design and Test Requirements—Tank Cars	2025	C-II	Update Available
RP-632	General Requirements and Information	2022	G-II	
S-359	Go and No-Go Gauge for Brake Head for Limiting Contour of Face, Metal or High-Friction Shoe	1990	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	2025	I	
S-475	Hand Brakes	2024	E	Update Available
S-224	Handholds, Safety Railings, and Ladder Treads	2015	C	
RP-2018	Handholds, Steps, and Ladders for Interior Access	2023	C	Update Available
RP-812	Handling and Inspection of Multi-Level Cars and Equipment After Loading	2023	N	
RP-810	Handling and Inspection of Vehicles Before Loading	2023	N	
RP-818	Handling of Multi-Level Cars and Equipment After Unloading	2023	N	
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S-380	Hangerless Brake Beam Extension Functional Gauge (Parallelism)	1979	E	
S-5026	Heat Exchange Fluid Hose Unit for Fuel Tenders	2023	T-III	
M-928	Highway Trailer Hitches for Freight Cars	2025	I	
M-928A	Highway Trailer Hitches for Freight Cars with 90,000-lb Maximum Gross Vehicle Weight Capacity	2025	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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M-801	Hopper Car, Covered—Pressurized During Unloading and In-Transit	2023	C	Update Available
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-3007	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
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-9070	ITC Human Machine Interface Standard	2025	K-I	
Appendix A.V0.0				
S-9420.V1.1	ITC Key Management Service	2025	K-V	Update Available

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S- 9416.V1.1	ITCSM Agent Requirements to Support PSA-2	2025	K-V	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	
S-159	Immobilization of Freightmaster Types HD and AR-F	2003	B	
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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-6101B	Industry Data Validation: Wheel Impact Load Detector	2025	F	
S-741	Information on Amtrak Passenger Car Bearings	2024	H-II	
S-6031	Inoperative Brake Indications as Determined by Wayside Detector	2016	F	

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RP-814	Inspection of Multi-Levels and Vehicles En Route	2023	N	
RP-609	Inspection Stand for Use with Master Disks	2004	G	
S-9202A	Integrated Wayside Messaging Server Hardware Requirements	2011	K-III	
M-934D	Interchangeable Backing Rings for Freight Car Tapered-Roller Journal Bearings	2007	H	
M-934C	Interchangeable End Caps for Freight Car Tapered-Roller Journal Bearings	2018	H	
S-739	Interchangeable Roller Bearing Requirements	2024	H-II	
M-934B	Interchangeable Seal Wear Rings for Freight Car Tapered-Roller Journal Bearings	2011	H	
M-934A	Interchangeable Spacers for Freight Car Tapered-Roller Journal Bearings	2011	H	
M-998	Intermodal Container Support and Interbox Connector (IBC) Securement Systems for Freight Cars	2025	I	
M-952	Intermodal Container Support and Securement System for Freight Cars	2025	I	
RP-852	Intermodal Equipment Cars	2025	I	
M-933	Intermodal Trailer and Container Securement	2025	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-9382.V1	Interoperable Asset Access Service	2022	K-IV	Update Available
S-9359	Interoperable Certificate Revocation Responder Service	2019	K-IV	Update Available
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	Update Available
S-9370.V1.0	Interoperable Event and Status Service	2022	K-IV	Update Available
M-1004	Interoperable Fuel Tenders for Locomotives	2023	T	
S-9558.V1.0	Interoperable IP Network Address Allocations	2021	K-VI	Update Available
RP-9511	Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation	2019	K-VI	Update Available
S-9557	Interoperable Train Control (ITC) Radio Identification Format	2015	K-VI	Update Available
S-9363	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2012	K-IV	

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S-9362	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2014	K-IV	
S-9362 V2.0	Interoperable Train Control (ITC) Wayside- Locomotive Interface Control Document (ICD)	2023	K-IV	
S-9378.V1.0	Interoperable Train Control Ticket Management (ITCTM) Interface Control Document (ICD)	2021	K-IV	Update Available
S-9058	Interoperable Train Control Ticket Management (ITCTM) Requirements and Use Cases	2021	K-I	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	
S-9506.V1.0	ITC Data Exchange Business Practices	2025	K-VI	
S-9075	ISMP Design Considerations	2022	K-I	Update Available
S-9070.V2.0	ITC Human Machine Interface	2024	K-I	Update Available
S-9420.V1.0	ITC Key Management Service	2024	K-V	
S-9051.V1.0	ITC Onboard PTC Application (OPA) Requirements	2024	K-I	Update Available
S-9051.V1.1	ITC Onboard PTC Application (OPA) Requirements	2026	K-I	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-9076	ITC Systems Management Interoperable Gateway Requirements	2021	K-I	Update Available
S-9363	ITC Time and Location—Interface Control Document (ICD)	2012	K-IV	
S-9416.V1.0	ITCSM Agent Requirements to Support PSA-2	2024	K-V	
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

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S-9451	ITCSM Common Systems Management Requirements	2014	K-V	
S-9460	ITCSM Interface Control Document for Interoperable Train	2018	K-V	Update Available
S-9451A.V1	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2012	K-V	
S-9451A.V2	ITCSM WIU Asset-Specific Requirements for Interoperable Train Control	2021	K-V	Update Available
S-9452A.V1	ITCSM WIU Asset-Specific Data Dictionary for Interoperable Train Control	2012	K-V	
S-9452A.V2	ITCSM WIU Asset-specific Data Dictionary for Interoperable Train Control	2021	K-V	Update Available
M-924	Journal Roller Bearing Adapters for Freight Cars	2018	H	
M-942	Journal Roller Bearing Grease	2020	H	
S-234	Jacking and Lifting of Freight Cars	2025	C	Update Available
M-216	Knuckles, Types E and F—Fatigue Test	2023	S-I	
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-5516	LED Headlights and Auxiliary Lighting for Locomotives	2020	M	
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	2023	N	
S-373	Peep Hole—Location for Checking Brake Cylinder Piston Travel on Cars with Deep Side Sills	2024	D	
S-701	Locking Plate for Journal Roller Bearing Assemblies	1997	H	
S-701A	Locking Plate for Journal Roller Bearing Assemblies	2012	H	
S-5513	Locomotive Alerter Requirements	2021	M	Update Available

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S-5101	Locomotive Cab Window Glazing Material	2002	M	
M-9155.V1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2014	K-II	
M-9155.V2	Locomotive Command and Control Module (LCCM)—Functional Requirements	2015	K-II	Update Available
M-9155.V2.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2015	K-II	Update Available
M-9155.V2.2	Locomotive Command and Control Module (LCCM)—Functional Requirements	2016	K-II	Update Available
M-9155.V2.3	Locomotive Command and Control Module (LCCM)—Functional Requirements	2018	K-II	Update Available
M-9155.V2.4	Locomotive Command and Control Module (LCCM)—Functional Requirements	2019	K-II	Update Available
M-9155.V2.4.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	Update Available
M-9155.V2.5	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	Update Available
S-580	Locomotive Crashworthiness Requirements	2020	M	
S-9101G V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Common File Format Standard	2018	K-II	Update Available
S-9101C V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	Update Available
S-9101B V1.0	Locomotive Data Acquisition and Recording System Architecture	2011	K-II	
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	
S-9102 V1.0	Locomotive Electronics and Train Control System Architecture	2022	K-II	Update Available
M-1005	Locomotive Electronics Safety Assessments and Analyses	2022	M	Update Available
S-9101 V1.2	Locomotive Electronics System Architecture	2019	K-II	Update Available
S-9101.V1.3	Locomotive Electronics System Architecture	2025	K-II	Update Available
S-9101.V1.2.1	Locomotive Electronics System Architecture	2022	K-II	Update Available
S-5512	Locomotive Event Recorder Download Standard (ARCHIVED 02/22/2021)	2021	M	Update Available

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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	
S-9170.V1.0	Locomotive Precision Navigation Module (PNM) Specification	2025	K-II	
RP-548	Locomotive Rating Train/Track Resistance	2001	M	
S-9101E V1.1	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	
M-1001 Chapter 3	M-1001 Chapter 3 - Materials-Body Structure	2022	C-II	Update Available
M-1001 Chapter 4	M-1001 Chapter 4 - Design	2022	C-II	Update Available
M-1001 Chapter 6	M-1001 Chapter 6 - General Design and Test Requirements—Tank Cars	2022	C-II	Update Available
S-6200	Machine Vision Detector	2021	F	
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	M	
S-659	Mandatory Rules Governing Wheel Shop Practices as Required by Interchange Rules	2022	G-II	
M-802	Manufacturer of Freight Cars, Facility Approval	2025	C	Update Available
M-803	Manufacturer of Major Subassemblies, Facility Approval	2025	C	Update Available
S-910	Marking of Freight Cars	2023	C	Update Available
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	2023	N	
M-993	Mechanical Certification of Flatcars for Autorack Service	2023	N	
RP-906	Methodology: Multi-Car Drifting Simulations	2024	B	
S-736	Minimum Acceptance and Rejection Criteria	2025	H-II	Update Available
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	

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RP-856	Multi-Car Power Pack Electrical Cable Tie Down	2025	I	
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	2023	N	
S-2058	Non-Hydraulic Energy Management Systems (EMS) with Buff Travel of 6" or More	2026	C	Update Available
M-912	Oil, Control Valve	2002	E	
S-9452B.V1.0	OPA Data Dictionary	2025	K-V	Update Available
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	2024	C	Update Available
S-123	Pin, Knuckle, Steel	2026	S-III	
S-124	Pin, Vertical Connection, Steel	2026	S-III	
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	

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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-9501	Positive Train Control Data Model Definition	2018	K-VI	Update Available
S-9501.V4.0	Positive Train Control Data Model Definition	2024	K-VI	Update Available
S-9501 Appendix A.V1.0	Positive Train Control Data Model Definition	2024	K-VI	Update Available
S-9080.V3	Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available
S-9080.V4	Positive Train Control Interoperability Committee Policy	2022	K-I	Update Available
S-9080.V5	Positive Train Control Interoperability Committee Policy	2024	K-I	Update Available
RP-9457.V1	Positive Train Control Interoperable Electronic Train Management System (I-ETMS) Master Test Strategy (MTS)	2012	K-V	
RP-9457.V2	Interoperable Train Control / Positive Train Control Master Test Strategy (MTS)	2021	K-V	Update Available
S-9055	Positive Train Control ITC Communications Segment Requirements—Level 1	2013	K-I	
S-9053	Positive Train Control ITC System Requirements—Level 0	2018	K-I	Update Available
S-9054	Positive Train Control ITC System Requirements—Level 1	2018	K-I	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-9361 V3.0	Positive Train Control Office-Locomotive Segment—Interface Control Document (ICD)	2020	K-IV	Update Available
S-9361 V3.1	Positive Train Control Office-Locomotive Segment—Interface Control Document (ICD)	2021	K-IV	Update Available
S-4047	Positive Train Control—Locomotive Air Brake Interface Requirements	2017	E	

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S-9103.V1.1	Precision Navigation Module Interface Control Document (ICD)	2025	K-II	Update Available
S-050	Procedures for Considering Proposals Regarding Revisions to the Manual of Standards and Recommended Practices	2014	AS	
S-9419.V1	PSA-2 Back Office Application Requirements	2023	K-V	
S-9418.V1.0	PSA-2 Gateway Requirements	2024	K-V	
S-9418.V1.1	PSA-2 Gateway Requirements	2025	K-V	Update Available
S-9504	PSA-2 W-OPK Service Requirements	2023	K-VI	
S-9372.V1.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2014	K-IV	Update Available
S-9372.V1.1	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2016	K-IV	Update Available
S-9372.V2.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2018	K-IV	Update Available
S-9372.V3.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2023	K-IV	Update Available
S-9371.V1.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2014	K-IV	Update Available
S-9371.V2.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	Update Available
S-9371.V3.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2021	K-IV	Update Available
S-9371.V4.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2022	K-IV	Update Available
S-9008.V1.0	PTC Security Architecture 2 (PSA 2)	2024	K-I	
S-9008.V1.1	PTC Security Architecture 2 (PSA 2)	2025	K-I	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-9502.V2.0	PTC Track Data Exchange	2024	K-VI	Update Available
S-2009	Push Rod, Brake Cylinder	1964	E	
M-915	Quality Assurance Requirements for Locomotives and Locomotive Components	2025	M	Update Available
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	

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S-9401.V1.1	Railroad Electronics Environmental Requirements	2024	K-V	
S-9353.V1.0	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	Update Available
S-9353.V1.1	Railroad Electronics Standards Committee (RESC) Data Dictionary	2021	K-IV	Update Available
S-9002	Railroad Electronics Standards Configuration Management	2009	K-I	
RP-815	Railroad Police Protection	2023	N	
S-9555	Railroad Use of IEEE 802.11	2015	K-VI	Update Available
RP-589	Rating for Specific Fuel Consumption of Diesel Electric Locomotives	2022	M	Update Available
RP-5126	Recessed Windshield Wiper Valve, Train-Order Light Switch, and Flush-Mounted Train-Order Light	2001	M	
RP-631	Recommended Wheel Shop Practices	2025	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	2024	C	Update Available
S-5531	Remote Monitoring Equipment, Locomotive—Installation	2019	M	
S-738	Repair Procedure Spalls, SWR, and Press Fit	2025	H-II	Update Available
S-740	Requirements for Remanufacture of Roller Bearing Components	2025	H-II	Update Available
S-737	Requirements for Roller Bearing Reconditioning	2025	H-II	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	2023	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 with Two-Flange Trainline Support Bracket	2009	S-III	
S-445	Retaining Valve—Location	2002	E	

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RP-803	Ride Quality Performance Requirements for Motor Vehicle Shipments	2023	N	
S-724	Roller Bearing Manual—Information on Amtrak Passenger Car Bearings	2012	H-II	
S-721	Roller Bearing Manual—Mandatory Instructions and Practices	2018	H-II	
S-723	Roller Bearing Manual—Mandatory Minimum Requirements for Roller Bearing Reconditioning Shops—Procedures—Tool Requirements Necessary to Make Roller Bearing Repairs for Interchange Use	2024	H-II	Update Available
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S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	2022	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	
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	
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S-2044	Safety Appliance Requirements for Freight Cars	2025	C	Update Available
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S-2044	Safety Appliance Requirements for Freight Cars	2025	C	Update Available
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S-5029	Safety Appliance Requirements for Intermodal Car-style Fuel Tenders	2023	T-III	
S-5028	Safety Appliance Requirements for Tank Car-style Fuel Tenders	2023	T-III	
S-219	Safety Appliances for Bulkhead Flatcars, Including Pulpwood Cars and Center Beam Cars	2017	C	
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S-235	Side Bearing Wear Plate—Car Body	2012	C	
S-213	Side Door and Door Frames, Boxcar—Plug Type	2024	C	Update Available
S-212	Side Door, Boxcar—Sliding Type	2012	C	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	2024	D	
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M-210	Side Frame and Bolsters Manufacture	2024	S-I	
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S-378	Side Frame, Cast Steel—Marking and Mating	2025	S-II	Update Available
S-3011	Side Frame, Standard Pedestal-Type Size 6 in. × 11 in. with Side Frame Key—Limiting Dimensions	1997	S-II	
S-461	Single-Capacity Freight Brakes—Performance Specification	2019	E	Update Available
S-4286	Single-Car Test for Testing Electronically Controlled Pneumatic Braking Systems—Design and Performance Requirements	2009	E-II	
M-949	Slack Adjuster Grease	2002	E	

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S-420	Slack Adjuster—Limiting Design Dimensions (Group E)	2002	E	
S-421	Slack Adjuster, Center Rod Application (Group E)	2002	E	
S-4008	Slack Adjuster, Mechanical, Double-Acting, Automatic Compression	2017	E	
S-419	Slack Adjuster, Mechanical, Double-Acting, Automatic Tension	2017	E	
S-4010	Slack Adjuster, Tension—Inspection, Testing, Removal, and Application	2018	E	
S-420A	Slack Adjuster, Tension—Limiting Design Dimensions	2002	E	
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S-9417	SMIA-2 Service Template	2023	K-V	
S-9410.V1.0	SMIA-2 Event and Status Service	2024	K-V	
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RP-557	Spark Arrester	2001	M	
S-225	Spark Shield—Wooden Deck Cars with Cast Iron Brake Shoes	1980	C	
M-965	Truck Systems to Control Roll Stability of Freight Cars	2024	D	
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M-1001 AppC	Specification for Instrumented Wheel Sets	2022	C-II	Update Available
M-6101	Specification for Instrumented Wheelsets for Measuring Vertical Impact Loads	2025	F	
M-1003	Specification for Quality Assurance	2024	J	Update Available
M-1002	Specifications for Tank Cars	2024	C-III	
S-3006	Spring—“D” Series, Recertified	2024	D	
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S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	

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S-335	Spring—D5, 3 11/16-in. Travel	2024	D	
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S-338	Spring—D7, 4 1/4-in. Travel	2024	D	
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S-340	Spring—Groups without Load-Carrying Snubbers	2024	D	
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M-114	Spring—Heat-Treated Steel	2024	D	
RP-306	Spring Test Machine, Pneumatic	2024	D	
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RP-208	Stake Pocket—Permanent	1998	C	
S-9202B	Stand-alone Wayside Messaging Server Hardware Requirements	2012	K-III	
S-365	Standard Location of Brake Hanger Brackets and Unit Guide Brackets	1979	E	
M-935	Standard Operating Procedures for Intermodal Securement	2025	I	
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S-3007	Hot Bearing Detection—Compatability Certification for New Truck Designs	2024	D	
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S-3013	Side Bearing Mounting Pad—Surface Requirements	2024	D	
S-3014	Freight Car Truck Springs—with Load-Carrying Snubber	2024	D	
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S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2024	D	
M-300	Reconditioned Brake Beams	2012	E	
M-402	Brake Shoe, Cast Iron, High-Phosphorus Type	2002	E	

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M-618	Hose, Air, Wire-Reinforced	2011	E	
M-619	Brake Cylinder Line Hose Assemblies—Performance Requirements	2005	E	
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M-912	Oil, Control Valve	2002	E	
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M-923	Hose Cement	1983	E	
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M-996	Brake Shoe, Low-Friction Composition Type	2015	E	
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RP-322	Brake Beam Strut Keyway Gauge	1992	E	
RP-400	Slack Adjuster—General Information	2002	E	
RP-5599	Hook and Eye Brake Rigging—Lever Angularity Inspection	2007	E	
S-344	Brake Beam Specifications and Tests	2007	E	
S-345	Brake Beam—Tolerance, Hangerless Type	1979	E	
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S-348	Brake Beam Gauges for Standard Brake Beams	1992	E	
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S-358	Go Gauge for Brake Head, Metal or High-Friction Shoe	2009	E	
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S-361	Go Gauges for Brake Shoe	1944	E	
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S-365	Standard Location of Brake Hanger Brackets and Unit Guide Brackets	1979	E	

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S-369	Brake Beam Hangers and Attachments	1965	E	
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S-371	Limiting Contour of Face of Brake Heads for Hangerless-Type Brake Beams	2009	E	
S-372	Brake Head Conversion—Metal Shoe-Type to High-Friction Composition	1972	E	
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S-379	Application Tolerances for Hanger-Type Brake Beams	unk	E	
S-380	Hangerless Brake Beam Extension Functional Gauge (Parallelism)	1979	E	
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S-400	Brake Equipment—Installation Specifications	2026	E	Update Available
S-401	Brake Design Requirements.	2020	E	Update Available
S-402	Welding of Air Brake Pipe and Fittings for Railroad Cars—Welding Procedure	2020	E	Update Available
S-419	Slack Adjuster, Mechanical, Double-Acting, Automatic Tension	2017	E	
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S-420A	Slack Adjuster, Tension—Limiting Design Dimensions	2002	E	
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S-422	Slack Adjuster, Top Rod Application (Group E)	2002	E	
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S-424	Angle Cock Location	2018	E	
S-425	Angle Cock Location on Cars Equipped with AAR Type F Coupler	2002	E	
S-426	Angle Cock Location on Cars with Floating Sills	2005	E	
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S-436	Hose Coupling, Dummy	2002	E	
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S-438	Hose, Armored Type—Mounting Procedure	1949	E	
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S-445	Retaining Valve—Location	2002	E	
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S-461	Single-Capacity Freight Brakes—Performance Specification	2019	E	Update Available
S-462	Control Valve—Approval Procedure	2019	E	Update Available
S-463	Test Rack, Multiple-Car, Freight Brake	2019	E	Update Available
S-464	Test Rack, Multiple-Car—Performance Testing Procedure	2019	E	Update Available

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S-471	Brake Pipe Restriction Test	2010	E	
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S-493	Dirt Collector and Cutout Cock—Test Specification	2002	E	
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S-3009	Specification for Self-Locking Cotter Keys	1992	E	
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S-4002	Empty/Load Devices—Performance Testing	2005	E	

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S-4005	Brake Systems, Truck-Mounted—Performance Testing	2002	E	
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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	
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S-4028	Train Line Arrangement with Displaceable Union on Cars with EOCC and Couplers Not Exceeding 45 in. in Length	2008	E	
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S-6000	Acoustic Roller Bearing Detector Level-1 Indications	2021	F	
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S-6003	Data Summary—Truck Hunting	2021	F	
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S-6103	Wheel Profile Detector	2022	F	
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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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M-113	Springs-Elliptical, Leaf style Steel-Bars and Bands for Elliptical Springs	Archived 02/23/2007 via C-10469
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M-960	Adjustable Column Type Bulkheads for Box Cars	Archived 02/23/2007 via C-10467
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RP-545	Testing Electrical Components	Archived 01/04/2021 via C-13731
RP-619	Reference Groove for Multiple-Wear Diesel Wheels	Renumbered S-619
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S-118	Periodic Inspection of Manufacturers' Facilities	Archived 06/20/2007 via C-10541
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S-221	Safety Appliance—Multi-Level Open or Screened Rack Car	Archived 02/23/2007 via C-10467
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S-257	Body Bolster—Center Filler, Tolerances Die Pressed	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
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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 11/26/2013 and again 8/5/2015 via C-12429
S-590	Locomotive Electronics System Architecture	Archived 08/05/2015 via C-12430
S-721	Roller Bearing Manual—Mandatory Instructions and Practices	Archived 05/08/2024 via C-14358
S-722	Roller Bearing Manual—Rules Covering Requirements for Approval of Roller Bearing Shops to Recondition Roller Bearings for Interchange Service	Archived 05/08/2024 via C-14358
S-723	Roller Bearing Manual—Mandatory Minimum Requirements for Roller Bearing Reconditioning Shops—Procedures—Tool Requirements Necessary to Make Roller Bearing Repairs for Interchange Use	Archived 05/08/2024 via C-14358
S-724	Roller Bearing Manual—Information on Amtrak Passenger Car Bearings	Archived 05/08/2024 via C-14358
S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	Archived 05/08/2024 via C-14358
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	Archived 05/08/2024 via C-14358
S-729	Lubrication, Roller Bearing	Archived 03/06/2017 via C-12839
S-730	Lubrication, Center Plates	Archived 03/06/2017 via C-12839
S-731	Lubrication, Doors	Archived 03/06/2017 via C-12839
S-732	Inspection and Lubrication of Bulkheads in Freight Cars	Archived 03/06/2017 via C-12839

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ARCHIVED/RENUMBERED DOCUMENTS

<u>DocNo.</u>	<u>Title</u>	<u>Change</u>
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	Archived 08/06/2020 via C-13630
	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	Metrickation 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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CURRENT CIRCULAR LETTERS

DISCLAIMER

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

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

MSRP-AS	MSRP-E2	MSRP-J	MSRP-M
MSRP-B	MSRP-F	MSRP-K1	MSRP-N
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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.
S-046	09/22/2025	C-14618	Implementation of Revisions to MSRP Section AS, ADMINISTRATIVE STANDARDS SUPPLEMENT, Standard S-046 Definitions of Terms for the AAR Manual of Standards and Recommended Practices

Section B—Freight Car Draft Components (2026)

Doc Affected	Date	CL No.	Title
Book	03/02/2026	C-14746	Implementation of Revised MSRP Section B, Freight Car Draft Components, 2026

Section C—Car Construction—Fundamentals and Details (2020) (page 1 of 3)

Doc Affected	Date	CL No.	Title
Book	09/24/2020	C-13653	Implementation of Revised MSRP Section C, Car Construction Fundamentals and Details, 2020
S-910	03/22/2022	C-13941	Implementation of Editorial Revisions to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-910 Marking of Freight Cars, regarding update to font

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Section C—Car Construction—Fundamentals and Details (2020) (page 2 of 3)

Doc Affected	Date	CL No.	Title
S-2045	07/19/2022	C-14001	Implementation of Revisions to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-2045 Remote Monitoring Equipment, Installation. Revision of requirements
S-286	12/29/2022	C-14096	Implementation of Revisions to MSRP Section C Part II, M-1001 Design, Fabrication, and Construction of Freight Cars, and Section C Standard S-286. Freight car and draft pocket design requirements
S-203	07/20/2023	C-14187	Implementation of Retirement to MSRP Section C, CAR Construction Fundamentals and Details, Standard S-203, Coupler, Height Adjustment
S-910 M-800 M-801	08/07/2023	C-14198	Implementation of Editorial Revisions to MSRP Section C, Car Construction Fundamentals and Details, Standard S-910 and Specifications M-800 and M-801, edits relative to marking of multiple unit cars, autoracks, and certain hopper cars
RP-2018	10/11/2023	C-14226	Implementation of Revisions to MSRP Section C, Car Construction Fundamentals and Details, RP-2018 Handholds, Steps, and Ladders for Interior Access - New guidance for safety appliances located below the coupler shank
S-213	01/29/2024	C-14302	Implementation of Revisions to MSRP Section C, Car Construction Fundamentals and Details, Standard S-213, Side Door and Door Frames, Boxcar - Plug Type, Revision to the water test fixture requirements
S-2043	04/12/2024	C-14336	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2043, Performance Specification for Trains Used to Carry High Level Radioactive Material. Assorted edits to requirements.
S-2056	04/25/2024	C-14338	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2056, Clearance Plate Diagrams for Interchange Service: Plates H, K, and P
S-2057 S-239 S-243 S-245 S-236 S-238	07/18/2024	C-14398	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, New Standard "S-2057 Draft Arrangements, 24 5/8-in. Pocket"; retirement of S-239, S-243, and S-245; edits to S-236, S-238, S-270
M-968	08/08/2024	C-14411	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Specification M-968, Design Requirements for Rigid Open-Top Freight Car Covers, implementation of new specification
S-2045	12/20/2024	C-14498	Implementation of Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2045, Remote Monitoring Equipment, revision of requirements
S-2044	01/30/2025	C-14505	Implementation of Editorial Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2044, Safety Appliance Requirements for Freight Cars, Update to Appendix H1

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S-2044	02/05/2025	C-14506	Implementation of Editorial Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2044, Safety Appliance Requirements for Freight Cars, Update to Appendix H1
M-975	08/15/2025	C-14603	Informational Circular: Relocation of MSRP S-I, CASTING DETAILS, Specification M-975, Span Bolsters, to MSRP C-I CAR CONSTRUCTION FUNDAMENTALS AND DETAILS
S-234	11/03/2025	C-14632	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-234, and Section C-II M-1001 DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, regarding jacking and lifting requirements
S-2044 Apps F1-F2	11/03/2025	C-14669	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2044, Safety Appliance Requirements for Freight Cars, Editorial Updates to Appendices F1 and F2
M-802 M-803 S-2034	12/29/2025	C-14715	Implementation of Revisions to Section C CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, new Specifications M-802 Manufacturer of Freight Cars, Facility Approval and M-803 Manufacturer of Major Subassemblies, Facility Approval, and Discontinuation of S-2034
S-270	02/26/2026	C-14735	Informational Circular: Relocation of MSRP Section B, FREIGHT CAR DRAFT COMPONENTS, Standard S-270, Wear Plate Used in Cushion Unit and Draft Systems that Employ the Y-47 Pin for an F Shank, to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS
S-2057	03/10/2026	C-14754	Implementation of Editorial Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2057 Draft Arrangements, 24 5/8-in. Pocket, regarding dimensions on Figures 5.1 and 8.1
S-2058	05/20/2026	C-14789	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-2058 Non-Hydraulic Energy Management Systems (EMS) with Buff Travel of 6" or More, regarding the addition of a new pocket, EMS-4

Section C-II—Specifications for Design, Fabrication, and Construction of Freight Cars, M-1001 (2023) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	11/15/2023	C-14266	Implementation of Revised AAR Manual of Standards and Recommended Practices Section C Part II, Specification M-1001, Design, Fabrication, and Construction of Freight Cars
Chapter 2	11/03/2025	C-14632	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-234, and Section C-II M-1001 DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, regarding jacking and lifting requirements

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Section C-II—Specifications for Design, Fabrication, and Construction of Freight Cars, M-1001 (2023) (page 2 of 2)

Doc Affected	Date	CL No.	Title
Chapter 4	11/03/2025	C-14632	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-234, and Section C-II M-1001 DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, regarding jacking and lifting requirements
Chapter 6	11/03/2025	C-14632	Implementation of Revisions to MSRP Section C-I, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, Standard S-234, and Section C-II M-1001 DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, regarding jacking and lifting requirements

Section C-III—Specifications for Tank Cars, M-1002 (2024)

Doc Affected	Date	CL No.	Title
Book	05/01/2024	CPC-1425	Publication of 2024 AAR MSRP C-III (M-1002)
Chapter 1	04/09/2025	CPC-1428	Alteration of AAR Standard for Tank Cars Specification
Appendix E	07/03/2025	CPC-1431	Implementation of Appendix E, AAR- MSRP-CIII (M-1002)
Appendix B	10/10/2025	CPC-1433	Implementation of changes to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B
Appendix A	11/03/2025	CPC-1434	Implementation of Revisions to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Proposed Appendix A
Chapter 2	03/10/2026	CPC-1440	Implementation of the Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2, Paragraph 2.2.13.3
Appendix B	03/10/2026	CPC-1441 CPC-1442	Implementation of the Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Appendix B, Table B.2

Section D—Trucks and Truck Details (2024)

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

Section E—Brakes and Brake Equipment (2019) (page 1 of 2)

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

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Section E—Brakes and Brake Equipment (2019) (page 2 of 2)

Doc Affected	Date	CL No.	Title
S-475	09/19/2019	C-13414	Implementation of Revisions to MSRP Section E—Brakes and Brake Equipment, S-475, Hand Brakes, Sheave and Chain Connector Clarification
S-4022	04/16/2020	C-13532	Implementation of Retirement of MSRP Section E, Standard S-4022 – Pipe, other than Schedule 80 Iron
S-401	08/03/2020	C-13626	Implementation of Editorial Revisions to MSRP Section E – Brakes and Equipment, Standard S-401, Brake Design Requirements. Hand brake marking requirements have been removed.
S-402	08/03/2020	C-13625	Implementation of Editorial Revision to MSRP Section E – Brakes and Brake Equipment, Standard S-402, Welding of Air Brake Pipe and Fittings For Railroad Cars – Welding Procedure Clarification
S-602	11/28/2023	C-14280	Implementation of Editorial Revision to MSRP Section E – Brakes and Brake Equipment, Specification S-602, Gaskets, Air Hose, updates, and additions
S-475	03/01/2024	C-14317	Implementation of Revisions to MSRP Section E, Brakes and Brake Equipment, Standard S-475, Hand Brakes, Editorial Corrections to Dimensions
S-4031	03/01/2024	C-14318	Implementation of Revisions to MSRP E, Brakes and Brake Equipment, S-4032, Trainline Arrangement For Cars With E/F-Type Couplers And Draft System Buff Travel Of 6 To 10 Inches
S-4032	03/01/2024	C-14319	Implementation of Revisions to MSRP Section E, Brakes and Brake Equipment, New Standard S-4031, Trainline Arrangement For Cars With E-Type Couplers And With Draft System Buff Travel Of 6 To 10 Inches
S-4027	04/16/2026	C-14765	Implementation of Revisions to MSRP E BRAKES AND BRAKE EQUIPMENT, S-4027, Automated Single Car Test Equipment, Conventional Brake Equipment-Design and Performance Requirements. Data validation enhancements
S-400	06/02/2026	C-14801	Implementation of Revisions to MSRP Section E, BRAKES AND BRAKE EQUIPMENT, Standard S-400 Brake Equipment-Installation Specifications, revisions to the prohibition of specific shackles
S-401	07/07/2026	C-14809	Implementation of Revisions to MSRP Section E, BRAKES AND BRAKE EQUIPMENT, Standard S-401 Brake Design Requirements, revisions to installation instructions, guidance for Groups T and U Hand Brakes
S-439	07/07/2026	C-14810	Implementation of Revisions to MSRP Section E, BRAKES AND BRAKE EQUIPMENT, Standard S-439 Hose Clamps, revisions to plating and related testing requirements
M-927	07/07/2026	C-14811	Implementation of Revisions to MSRP Section E, BRAKES AND BRAKE EQUIPMENT, Specification M-927, Hose Fittings and Hose Assemblies, Air, Wire Reinforced, revisions to plating and related testing requirements
S-491	07/08/2026	C-14812	Implementation of Revisions to MSRP Section E, BRAKES AND BRAKE EQUIPMENT, Standard S-491 Hose Coupling, revisions to plating and related testing requirements

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

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Book	08/07/2014	C-12225	Implementation of Revised AAR MSRP Section E-II, Electronically Controlled Brake Systems

Section F—Sensors (2026)

Doc Affected	Date	CL No.	Title
Book	07/14/2026	C-14820	Informational Circular: MSRP F - Sensors: Relocation of AEI standards and Section F reprint

Section G—Wheels and Axles (2020)

Doc Affected	Date	CL No.	Title
Book	09/29/2020	C-13654	Implementation of Revised MSRP Section G, Wheel and Axles, 2020
S-631 S-632	08/29/2025	C-14606	Implementation of Revisions to MSRP Section G, WHEELS AND AXLES, S-631, and S-632, and MSRP Section G-II, WHEEL AND AXLE MANUAL, RP-631, RP-633, and RP-634, Alternate Combination Gauge
M-101	01/28/2026	C-14730	Implementation of Revisions to MSRP Section G, WHEELS AND AXLES, M-101 Axles, Carbon Steel, Heat Treated, Class F Production, Straightening, and Chemical Composition

Section G-II—Wheel and Axle (Shop) Manual (2022)

Doc Affected	Date	CL No.	Title
Book	10/25/2022	C-14039	Implementation of Revised MSRP Section G-II, Wheel and Axle Manual, 2022
RP-631 RP-633 RP-634	08/29/2025	C-14606	Implementation of Revisions to MSRP Section G, WHEELS AND AXLES, S-631, and S-632, and MSRP Section G-II, WHEEL AND AXLE MANUAL, RP-631, RP-633, and RP-634, Alternate Combination Gauge

Section H—Journal Bearings and Lubrication (2021)

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

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Section H-II—Roller Bearing (Shop) Manual (2024)

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Book	05/08/2024	C-14358	Implementation of Revised MSRP Section H-II, Roller Bearing Manual, 2024
S-736 S-737 S-738 S-740	07/16/2025	C-14591	Implementation of Revisions to MSRP Section H-II, ROLLER BEARING MANUAL, S-736, S-737, S-738, and S-740, Inspection Probe, and Backing Ring Fillet Gauge
S-735 S-736 S-737 S-738 S-740	10/07/2025	C-14622	Implementation of Revisions to MSRP Section H-II, ROLLER BEARING MANUAL, Standards S-735, S-736, S-737, S-738, and S-740, Spall and Gouge Criteria, Polymer Cages, and Temperature Measurements

Section I—Intermodal Equipment Manual (2025)

Doc Affected	Date	CL No.	Title
Book	10/23/2025	C-14642	Implementation of Revised MSRP Section I, Intermodal Equipment Manual, 2025

Section J—Specification for Quality Assurance, M-1003 (2026)

Doc Affected	Date	CL No.	Title
Book	02/02/2026	C-14732	Implementation of Revision to AAR MSRP Section J, Specification for Quality Assurance M-1003, 2026

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

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Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014)
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Doc Affected	Date	CL No.	Title
S-9010.V1.0	07/24/2019	C-13385	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Data Protection, Standard S-9010.V1.0
S-9080.V1.0	10/17/2019	C-13422	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V1.0
S-9080.V2.0	09/30/2020	C-13655	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V2.0
S-9074.V1.0	11/05/2020	C-13694	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9074.V1.0
S-9081.V1.0	12/18/2020	C-13726	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.0
S-9058.V1.0	01/19/2021	C-13736	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9058.V1.0
S-9081.V1.1	02/26/2021	C-13749	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.1
S-9081.V1.2	03/08/2021	C-13753	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.2
S-9076.V1.0	08/17/2021	C-13841	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9076.V1.0
S-9075.V1.0	07/19/2022	C-14003	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9075.V1.0
S-9080.V3.0	08/05/2022	C-14009	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9080.V3.0
S-9008.V1.0	04/05/2024	C-14333	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9008.V1.0
S-9080.V5.0	06/24/2024	C-14388	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP). Section K-I Railway Electronics Architecture and Concepts of Operations. Standard S-9080.V5.0
S-9070.V2.0	12/17/2024	C-14494	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics System Architecture and Concept of Operations, Standard S-9070.V2.0
S-9051.V1.0	12/17/2024	C-14495	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics System Architecture and Concept of Operations, Standard S-9051.V1.0

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**Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014)
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Doc Affected	Date	CL No.	Title
S-9008.V1.1	06/26/2025	C-14586	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9008.V1.1
S-9051.V1.1	02/17/2026	C-14742	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9051.V1.1
S-9051.V1.0	02/23/2026		This version is deprecated.

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

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
M-9154B.V1.0	01/23/2015	C-12326	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-II, Locomotive Electronics and Train Consist Architecture, Intra-Consist Communications (ICC) Layer 2, M-9154B.V1.0.
M-9155.V2.0	05/19/2015	C-12384	Railway Electronics Standards Committee, Specification M-9155.V2.0—Locomotive Command and Control Module (LCCM)—Functional Requirements
M-9155.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

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Section K-II—Locomotive Electronics and Train Consist System Architecture
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Doc Affected	Date	CL No.	Title
M-9155.V2.3	10/04/2018	C-13204	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements, Specification M-9155.V2.3
M-9155.V2.4	08/30/2019	C-13402	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements Specification M-9155.V2.4
S-9101.V1.2	08/30/2019	C-13403	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Electronics System Architecture Standard S-9101.V1.2
S-9101.V1.2	08/30/2019	C-13404	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Standard S-9101 Appendix F
M-9155.V2.4.1	09/10/2021	C-13851	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.4.1.
S-9103.V1.0	10/25/2021	C-13860	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9103.V1.0
M-9155.V2.5	12/20/2021	C-13918	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.5
S-9101 Appendix F.V1.2	09/21/2022	C-14025	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101 Appendix F V1.2
S-9101.V1.2.1	12/16/2022	C-14090	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101.V1.2.1
S-9102.V1.0	12/16/2022	C-14091	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9102.V1.0
S-9170.V1.0	02/28/2025	C-14513	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification S-9170.V1.0
S-9101.V1.3	03/26/2025	C-14524	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Standard S-9101.V1.3
S-9103.V1.1	07/23/2025	C-14596	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-II Locomotive Electronics and Train Consists System Architecture, Standard S-9103.V1.1

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

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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
S-9203C.V5.0	06/25/2025	C-14584	Implementation: MSRP K-III - S-9203C AEI Site-to-Host Consist & Wayside Report Format
RP-9203.V1.1	08/01/2025	C-14600	Informational Circular: MSRP K-III, RP-9203 AEI Reader Equipment Requirements
RP-9203.V1.1 S-9203.V1.1 S-9203C.V5.0	07/14/2026	C-14820	Informational Circular: MSRP F - Sensors: Relocation of AEI standards and Section F reprint

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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
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)

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S-9364.V2.0	01/18/2017	C-12786	New Circular Letter Release, S-9364.V2.0—I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD), In Support of AAR Manual of Standards and Recommended Practices (MSRP), Section K-4, Railway Electronics Messaging Stand
S-9361.V2.0	06/28/2018	C-13165	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, Positive Train Control (PTC) Office—Locomotive Segment—Interface Control Document (ICD), Standard S-9361.V2.0
S-9372.V2.0	06/28/2018	C-13166	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, PTC Back Office Segment-Energy Management Interface Control Document (ICD), Standard S-9372.V2.0
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

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S-9359.V1.0	06/28/2019	C-13373	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and railroad Electronics Messaging, Interoperable Certificate Revocation Responder Service, Standard S-9359.V1.0
S-9365.V3.0	08/11/2019	C-13395	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and RR Electronics Messaging, Locomotive Interface Gateway (LIG) Positive Train Control (PTC) Interface Control Document (ICD), Standard S-9365.V3.0
S-9353.V1.0	08/11/2019	C-13394	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-IV Office Architecture and Railroad Electronics Messaging, Railroad Electronics Standards Committee (RESC) Data Dictionary, S-9353.V1.0
S-9361.V3.0	10/14/2020	C-13657	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9361.V3.0
S-9371.V3.0	04/05/2021	C-13765	Implemented. AAR Manual of Standard and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9371.V3.0
S-9378.V1.0	04/22/2021	C-13781	Implemented. AAR Manual of Standards and Recommended Practices, Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9378.V1.0
S-9353.V1.1	12/20/21	C-13916	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9353.V1.1
S-9361.V3.1	12/20/2021	C-13917	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9361.V3.1
S-9382.V1.0	07/19/2022	C-14002	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9382.V1.0
S-9371.V4.0	08/25/2022	C-14012	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9371.V4.0
S-9370.V1.0	08/26/2022	C-14014	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9370.V1.0
S-9355.V2.0	08/26/2022	C-14015	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9355.V2.0
S-9355 Appx A V1.0	08/26/2022	C-14016	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9355 Appendix A V1.0
S-9362.V2.0	07/19/2023	C-14182	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9362.V2.0

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S-9372.V3.0	09/08/2023	C-14210	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, S-9372.V3.0
S-9363.V1.1	01/29/2024	C-14305	IMPLEMENTED. AAR Manual of Standard and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9363.V1.1
S-9354.V3.0	08/29/2025	C-14607	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9354.V3.0
S-9354 Appendix B V1.0	08/29/2025	C-14608	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-IV Office Architecture and Railroad Electronics Messaging, Standard S-9354 - Appendix B V1.0

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

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
S-9452A.V2.0	08/16/2021	C-13839	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9452A.V2.0
S-9451A.V2.0	08/17/2021	C-13840	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9451A.V2.0
RP-9457.V2.0	08/17/2021	C-13842	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard RP-9457.V2.0
S-9417.V1.0	07/19/2023	C-14183	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-5 Electronics Environmental Requirements and Systems Management, Standard S-9417.V1.0
S-9419.V1.0	09/08/2023	C-14208	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9419.V1.0
S-9410.V1.0	02/20/2024	C-14310	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9410.V1.0
S-9411.V1.0	02/20/2024	C-14311	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9411.V1.0
S-9412.V1.0	02/20/2024	C-14312	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9412.V1.0

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S-9414.V1.0	02/20/2024	C-14313	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9414.V1.0
S-9421.V1.0	03/08/2024	C-14322	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9421.V1.0
S-9418.V1.0	03/28/2024	C-14329	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9418.V1.0
S-9415.V1.0	04/12/2024	C-14335	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9415.V1.0
S-9416.V1.0	05/07/2024	C-14357	IMPLEMENTED. Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9416.V1.0
S-9420.V1.0	07/12/2024	C-14397	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9420.V1.0
S-9452.V3.1	10/07/2024	C-14421	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9452.V3.1
S-9416.V1.1	09/30/2025	C-14620	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9416.V1.1
S-9452B.V1.0	12/17/2025	C-14705	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9452B.V1.0
S-9420.V1.1	12/17/2025	C-14706	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9420.V1.1
S-9418.V1.1	12/17/2025	C-14707	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-V Electronics Environmental Requirements and Systems Management, Standard S-9418.V1.1

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**Section K-VI—Railway Electronics Data Management and Communications
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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
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

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S-9503.V2.0	08/13/2015	C-12427	New Circular Release: Implementation of Changes to MSRP, Section K-VI, Standard S-9503.V2.0 - Interoperable Electronic Train Management System (I-ETMS) Subdivision File
S-9557.V1.0	12/15/2015	C-12537	New Circular Letter Release: Implementation of New Standard within MSRP, Section K-VI, Standard S-9557.V1.0—Interoperable Train Control (ITC) Radio Identification Format.
S-9501.V3.0	10/30/2018	C-13224	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Positive Train Control Data Model Definition, Standard S-9501.V3.0
RP-9511.V2.0	05/15/2019	C-13332	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communication, Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation, Recommended Practice RP-9511.V2.0
S-9502.V1.0	06/26/2020	C-13602	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9502.V1.0
S-9502.V1.1	10/29/2020	C-13671	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9502.V1.1
S-9558.V1.0	03/31/2021	C-13763	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, S-9558.V1.0
S-9503.V3.0	12/16/2022	C-14087	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standards S-9503.V3.0
S-9504.V1.0	07/19/2023	C-14184	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-VI Railway Data Management and Communications, Standard S-9504.V1.0
S-9502.V2.0	03/08/2024	C-14323	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9502.V2.0
S-9501.V4.0	06/24/2024	C-14389	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9501.V4.0
S-9501 Appendix A. V1.0	06/24/2024	C-14390	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-VI Railway Data Management and Communications, Standard S-9501 Appendix A. V1.0
S-9506.V1.0	04/15/2025	C-14536	IMPLEMENTED, AAR Manual of Standards and Recommended Practices (MSRP) Section K-VI Railway Data Management and Communications, Standard S-9506.V1.0

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Section M—Locomotives and Locomotive Interchange Equipment (2020)

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Book	11/24/2020	C-13710	Implementation of Revised MSRP Section M, Locomotives and Locomotive Interchange Equipment, 2020
RP-545	01/04/2021	C-13731	Implementation of Retirement of MSRP Section M, Recommended Practice – RP-545 Testing Electrical Components
S-5512	02/22/2021	C-13745	Implementation of Retirement and Archival of AAR MSRP Section M - Standard S-5512 – Locomotive Event Recorder Download Standard
S-5513	11/03/2021	C-13880	Implementation of Revisions to the Manual of Standards and Recommended Practices (MSRP), Section M, Locomotives and Locomotive Interchange Equipment: Standard S-5513 – Locomotive Alerter Requirements
RP-589	04/25/2022	C-13966	Implementation of Proposed Revisions to MSRP, Section M, Recommended Practice - RP-589, Rating for Specific Fuel Consumption of Diesel Electric Locomotives
M-1005	10/12/2022	C-14030	Implementation of Revisions to MSRP, Section M Locomotives and Locomotive Interchange Equipment, Specification M-1005 Locomotive Electronics Safety Assessments and Analyses
M-915	04/07/2023	C-14119	Implementation of a New Specification to MSRP, Section M, Locomotives and Locomotive Interchange Equipment: Specification M-915 - Quality Assurance Requirements for Locomotives and Locomotive Components
RP-5209	05/20/2024	C-14373	Implementation of Retirement and Archival of AAR MSRP Section M - Recommended Practice - RP-5209 BASIC BRAKE DESIGN DATA FOR FREIGHT LOCOMOTIVES
RP-509	10/28/2024	C-14444	Implementation of Revisions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Recommended Practice RP-509 - BRAKING RATIOS FOR LOCOMOTIVES
RP-509	04/08/2025	C-14531	Implementation of Revisions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Recommended Practice RP-509 - BRAKING RATIOS FOR LOCOMOTIVES
S-5018	05/16/2025	C-14576	Implementation of Revisions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Standard S-5018 - DYNAMIC BRAKING CONTROL
M-915	09/08/2025	C-14610	Informational Circular: Editorial & Reference Additions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Specification M-915 - QUALITY ASSURANCE REQUIREMENTS FOR LOCOMOTIVES AND LOCOMOTIVE COMPONENTS
S-5018	09/12/2025	C-14613	Implementation of Revisions to MSRP, Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT: Standard S-5018 - DYNAMIC BRAKING CONTROL

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Section N—Multi-Level Manual (2023)

Doc Affected	Date	CL No.	Title
Book	06/03/2026	C-14791	Implementation of Revised AAR Manual of Standards and Recommended Practices Section N, Multi-Level Manual

Section S-I—Casting Details (2025)

Doc Affected	Date	CL No.	Title
Book	08/29/2025	C-14605	Implementation of Revised MSRP Section S-I, CASTING DETAILS, 2025

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

Doc Affected	Date	CL No.	Title
Book	02/15/2019	C-13281	Implementation of Revised MSRP Section S-II, Truck Details and Casting Codes, 2019
S-392	05/01/2025	C-14562	Implementation of Editorial Revisions to MSRP Section S-II, TRUCK DETAILS AND CASTING CODES, Standard S-392, Truck - Design Drawings, regarding addition of Strato drawings and removal of obsolete MD-500 form
S-378	07/16/2025	C-14593	Implementation of Revisions to MSRP Section S-II, TRUCK DETAILS AND CASTING CODES, Standard S-378, Side Frame, Cast Steel-Making and Mating, regarding proper button casting and removal

Section S-III—Coupler and Yoke Details (2026)

Doc Affected	Date	CL No.	Title
Book	03/02/2026	C-14747	Implementation of Revised MSRP Section S-III, Coupler and Yoke Details, 2026

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

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

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

Doc Affected	Date	CL No.	Title
Book	05/05/2023	C-14143	Implementation of New MSRP Section T-III, Interchange Standards for Fuel Tender Components, 2023

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