

# **Association of American Railroads**

**SAFETY AND OPERATIONS**

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## **MANUAL OF STANDARDS AND RECOMMENDED PRACTICES SECTION A-I**

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

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Safety and Operations

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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In addition, this manual provides for historical reference a list of documents that have been archived or renumbered.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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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	<a href="#">Update Available</a>
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S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	2023	N	
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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-3013	Specifications Covering Surface of Truck Bolster Side Bearing Mounting Pad	1997	D	
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S-5531	Remote Monitoring Equipment, Locomotive—Installation	2019	M	
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S-6022	Data Summary Definition—Line-of-Road Failure—Train Separation	2016	F	
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S-9075	ISMP Design Considerations	2022	K-I	<a href="#">Update Available</a>
S-9076	ITC Systems Management Interoperable Gateway Requirements	2021	K-I	<a href="#">Update Available</a>
S-9080.V3	Positive Train Control Interoperability Committee Policy	2022	K-I	<a href="#">Update Available</a>
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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	<a href="#">Update Available</a>
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S-9101E V1.1	Locomotive System Integration Communications	2016	K-II	<a href="#">Update Available</a>
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S-108	Coupler, E/F Type, Standard and Alternate Standard, E68CE and E68DE	2020	S-III	
S-109	Coupler, E/F Type, Standard and Alternate Standard, E69BE and E69CE	2020	S-III	
S-174	Coupler, F Type, Guard Arm Lightener Hole Openings and Knuckle Flag Hole—Standard Dimensions	2003	S-III	
S-116	Coupler, F Type, Interlocking, Coupler and Yoke Parts	2003	S-III	
S-110	Coupler, F Type, Standard F Coupler, F70DE	2009	S-III	
S-112	Coupler, F Type, Standard, F73BE	2003	S-III	
S-114	Coupler, F Type, Standard, F79DE	2003	S-III	
S-111	Coupler, F Type, with Top Shelf, Standard, SF70DE	2003	S-III	
S-115	Coupler, F Type, with Top Shelf, Standard, SF79DE	2003	S-III	
S-203	Coupler, Height Adjustment (RETIRED 07/20/2023)	1962	C	<a href="#">Update Available</a>

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M-215	Coupling Systems	2018	S	
RP-5115	Cushion Pad—Locomotive Cab Door Frame	2001	M	
RP-110	Cushioning Device Inspection	2003	B	
M-921E	Cushioning Devices, Active Draft End	2020	B	<a href="#">Update Available</a>
M-921F	Cushioning Devices, Active Draft End of Car	2020	B	<a href="#">Update Available</a>
M-921B	Cushioning Devices, End-of-Car	2020	B	<a href="#">Update Available</a>
M-921D	Cushioning Devices, End-of-Car—Motor-Vehicle-Carrying	2023	B	<a href="#">Update Available</a>
M-921C	Cushioning Devices, Reconditioned—Approved for Freight Service	2020	B	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
S-6020	Data Summary Definition—Line-of-Road Failure	2019	F	
S-6021	Data Summary Definition—Line-of-Road Failure—Air Hose Separation	2016	F	
S-6023	Data Summary Definition—Line-of-Road Failure—Brake System/Other	2016	F	
S-6022	Data Summary Definition—Line-of-Road Failure—Train Separation	2016	F	
S-6002	Data Summary Definitions	2021	F	<a href="#">Update Available</a>
S-6009	Data Summary—Automatic Equipment Identification (AEI)	2021	F	<a href="#">Update Available</a>
S-6007	Data Summary—Brake Health Car	2015	F	
S-6006	Data Summary—Brake Health Truck	2021	F	<a href="#">Update Available</a>
S-6005	Data Summary—RailBAM®	2021	F	<a href="#">Update Available</a>
S-6008	Data Summary—Salient Wheel Impact	2022	F	<a href="#">Update Available</a>
S-6004	Data Summary—TADS®	2021	F	<a href="#">Update Available</a>
S-6003	Data Summary—Truck Hunting	2021	F	<a href="#">Update Available</a>
S-6010	Data Summary—Wheel Profile Detector (WPD)	2019	F	
S-4046	Date Markings for Rubberized Components	2016	E	

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S-046	Definitions of Terms for the AAR <i>Manual of Standards and Recommended Practices</i>	2015	AS	<a href="#">Update Available</a>
M-1002 AppE	Design Details	2024	C-III	<a href="#">Update Available</a>
RP-308	Design Dimensions for Brake Hanger Bracket	1937	E	
M-1001	Design, Fabrication, and Construction of Freight Cars	2023	C-II	
M-992	Designated Satellite Shop Repair Specifications for Multi-Level Autorack Cars	2023	N	
RP-514	Designation of Sides and Ends of Locomotives	2001	M	
RP-817	Destination Inspections	2023	N	
S-6101	Detector Calibration and Validation Requirements	2023	F	<a href="#">Update Available</a>
RP-5132	Diesel Locomotive Control Stand for New Locomotives	2001	M	
S-493	Dirt Collector and Cutout Cock—Test Specification	2002	E	
S-489	Dirt Collector and Cutout Cock, Combined—Repair Specification	1981	E	
S-252	Door Air Lines—Location of End Cocks	1978	C	
RP-5117	Door Closure Bar—Locomotive Cab	2001	M	
S-249	Door Puller Bracket, Application to Intermediate Post	1978	C	
S-229	DOT Placard Location	2013	C	
RP-851	Double-Stack Container Cars	2004	I	
S-243	Draft Arrangement, E68 Coupler, 24 5/8-in. Pocket	1983	C	
S-244	Draft Arrangement, E69 Coupler, 24 5/8-in. Pocket	1983	C	
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S-119	Draft Gear Follower, Y44A	2012	B	
RP-101	Draft Gear Inspection	2011	B	
M-901F	Draft Gear Reaction Forces, Measuring and Recording, Instrumentation Requirements	2003	B	
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M-901B	Draft Gear, Secondhand and Reconditioned	2015	B	
M-901E	Draft Gears with a Minimum Capacity of 36,000 ft·lb at a Reaction of 500,000 lb	2023	B	<a href="#">Update Available</a>
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S-4260	ECP Brake and Wire Distributed Power Interoperability Test Procedures	2008	E-II	
S-4240	ECP Brake Equipment—Approval Procedure	2007	E-II	
S-4270	ECP Brake System Configuration Management	2008	E-II	
S-4220	ECP Cable-Based Brake DC Power Supply—Performance Specification	2002	E-II	
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S-9354	Edge Message Protocol	2018	K-IV	<a href="#">Update Available</a>
S-9376	Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)	2016	K-IV	<a href="#">Update Available</a>
M-967	Electrochemical Metal Deposition for Repairing Roller Bearing Axle Journals	2008	G	
RP-940	Electronic Distribution Format For Engineering Drawings	2005	C	
S-4200	Electronically Controlled Pneumatic (ECP) Cable-Based Brake Systems—Performance Requirements	2014	E-II	
S-4002	Empty/Load Devices—Performance Testing	2005	E	
S-488	End Cock and Air Brake Hose Location on Long Cars	2002	E	
S-472	End Cock Location on Cars Arranged for Rotary Dump Service	2002	E	
M-941	End Enclosure for Fully Enclosed Multi-Level Auto Rack Cars	2023	N	
S-440	End Hose Gaskets, Couplings, and Nipples—Annual Test Requirements	1999	E	
S-9152	End-of-Train Communications	2016	K-II	<a href="#">Update Available</a>
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M-980	Friction Wedge Performance for Railcars—Dynamic Wear Test	2018	D	
S-9553B	Front End Processor	2002	K-VI	
S-5025	Gaseous Supply Hose Unit for Fuel Tenders	2023	T-III	
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RP-637	Gauge, Wheel—Application Drawing for AAR 1B Wheel Gauges S-661 and S-665	1991	G	
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S-668	Gauge, Wheel—Reference Limit Gauge for Verifying AAR 1B Wide Flange Wheel Gauge S-667	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	2022	G-II	
M-1001 Chapter 2	General Data	2023	C-II	<a href="#">Update Available</a>
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	
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S-361	Go Gauges for Brake Shoe	1944	E	
S-233	Gravity Outlet Gates, New—for Covered Hopper Cars	2014	C	
M-929	Grease for Lubrication of Trailer Hitches on Flatcars	2004	I	
S-475	Hand Brakes	2024	E	<a href="#">Update Available</a>
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RP-2018	Handholds, Steps, and Ladders for Interior Access	2023	C	<a href="#">Update Available</a>
RP-812	Handling and Inspection of Multi-Level Cars and Equipment After Loading	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-114	Helical Springs, Heat-Treated Steel	2008	D	
M-928	Highway Trailer Hitches for Freight Cars	2018	I	
M-928A	Highway Trailer Hitches for Freight Cars with 90,000-lb Maximum Gross Vehicle Weight Capacity	2018	I	
RP-233	Hold-Down Clips—Gondolas, Side Sheet Mounted	1948	C	
RP-234	Hold-Down Clips—Gondolas, Top Cord Mounted	1982	C	
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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	
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M-620	Hose, Air, Fabric-Reinforced	2011	E	
M-618	Hose, Air, Wire-Reinforced	2011	E	
S-438	Hose, Armored Type—Mounting Procedure	1949	E	
S-437	Hose, Other than Armored Type—Mounting Procedure	2002	E	
M-601	Hose, Wrapped, Air—Brake, “End Hose”	2006	E	
S-9070	I-ETMS Human Machine Interface Standard	2012	K-I	
S-9364	I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD)	2017	K-IV	<a href="#">Update Available</a>
S-9503. V3.0	ITC Track Data File Format	2022	K-VI	<a href="#">Update Available</a>
S-217	Identification Plate—Boxcar Doors	2009	C	
S-158	Immobilization of Freightmaster	2003	B	
S-161	Immobilization of Freightmaster 10-in. Type E Miner M-12S	2003	B	
S-157	Immobilization of Freightmaster Types F, FS, and B	2003	B	
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S-162	Immobilization of Keystone F Shank	2003	B	
S-160	Immobilization of Keystone Type E Miner SR-12	2003	B	
S-171	Immobilization of Pullman Standard, ACF, or Keystone Center-of-Car Cushioning Devices (“Dummy Cylinder Method”)	2003	B	
S-125	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective ACF Freight Saver 20- or 30-in. Travel Units—Plate No. 526-1	2003	B	
S-127	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Cushion 10-, 12-, or 20-in. Travel Units or Evans Cushion Pak Wide Tunnel Units—Plate No. 526-3	2003	B	
S-128	Immobilization of Sliding Sill on Cushion Underframe Cars Having Damaged or Defective Hydra Pullman Standard Hydroframe 40 and 60 Units or National 3C Wide Tunnel Units—Plate No. 526-4	2003	B	

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S-732	Inspection and Lubrication of Trailer Hitches on Flatcars	2016	I	
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	
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-1002 AppL	Interior Cleaning, Lining, and Coating	2019	C-III	<a href="#">Update Available</a>
M-998	Intermodal Container Support and Interbox Connector (IBC) Securement Systems for Freight Cars	2022	I	<a href="#">Update Available</a>
M-952	Intermodal Container Support and Securement System for Freight Cars	2008	I	
RP-852	Intermodal Equipment Cars	2003	I	
M-933	Intermodal Trailer and Container Securement	2018	I	
RP-2001	Interoperability Requirements—Movement of Passenger Equipment on Freight Railroads	2019	M	
RP-2002	Interoperability Requirements—Operation of Regularly Scheduled Revenue Passenger Service	2019	M	
S-9382.V1	Interoperable Asset Access Service	2022	K-IV	<a href="#">Update Available</a>
S-9359	Interoperable Certificate Revocation Responder Service	2019	K-IV	<a href="#">Update Available</a>
S-9503	Interoperable Electronic Train Management System® (I-ETMS) Subdivision File	2015	K-VI	<a href="#">Update Available</a>
S-9370.V1.0	Interoperable Event and Status Service	2022	K-IV	<a href="#">Update Available</a>

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RP-9511	Interoperable Train Control (ITC) Onboard Track Database Field Survey and Validation	2019	K-VI	<a href="#">Update Available</a>
S-9557	Interoperable Train Control (ITC) Radio Identification Format	2015	K-VI	<a href="#">Update Available</a>
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S-9363.V1.1	Interoperable Train Control (ITC) Time and Location—Interface Control Document (ICD)	2024	K-IV	
S-9362	Interoperable Train Control (ITC) Wayside-Locomotive Interface Control Document (ICD)	2014	K-IV	
S-9362.V2.0	Interoperable Train Control (ITC) Wayside-Locomotive Interface Control Document (ICD)	2023	K-IV	
S-9378.V1.0	Interoperable Train Control Ticket Management (ITCTM) Interface Control Document (ICD)	2021	K-IV	<a href="#">Update Available</a>
S-9058	Interoperable Train Control Ticket Management (ITCTM) Requirements and Use Cases	2021	K-I	<a href="#">Update Available</a>
S-9202	Interoperable Train Control Wayside Interface Unit Requirements	2012	K-III	
M-9154B	Intra-Consist Communications (ICC) Layer 2	2015	K-II	<a href="#">Update Available</a>
M-9154A	Intra-Consist Communications (ICC) Routing Functionality	2013	K-II	
S-4230	Intratrain Communication Specification for Cable-Based Freight Train Control Systems	2014	E-II	
M-1002 Ch1	Introductions, Approvals, and Reports	2024	C-III	<a href="#">Update Available</a>
S-9075	ISMP Design Considerations	2022	K-I	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
S-9363	ITC Time and Location—Interface Control Document (ICD)	2012	K-IV	
M-9453	ITCSM Asset User Interface Requirements for Interoperable Train Control	2014	K-V	
S-9452	ITCSM Common Data Dictionary for Interoperable Train Control	2018	K-V	<a href="#">Update Available</a>
S-9451	ITCSM Common Systems Management Requirements	2014	K-V	

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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	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
M-924	Journal Roller Bearing Adapters for Freight Cars	2018	H	
M-942	Journal Roller Bearing Grease	2020	H	
M-216	Knuckles, Types E and F—Fatigue Test	2023	S	<a href="#">Update Available</a>
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	Location of Peep Hole on Cars Having Deep Side Sills for Checking Brake Cylinder Piston Travel	1967	D	
S-701	Locking Plate for Journal Roller Bearing Assemblies	1997	H	
S-701A	Locking Plate for Journal Roller Bearing Assemblies	2012	H	
S-5513	Locomotive Alerter Requirements	2021	M	<a href="#">Update Available</a>
S-5520	Locomotive Cab Securement	2014	M	
S-5101	Locomotive Cab Window Glazing Material	2002	M	
M-9155.V1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2014	K-II	

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M-9155.V2.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2015	K-II	<a href="#">Update Available</a>
M-9155.V2.2	Locomotive Command and Control Module (LCCM)—Functional Requirements	2016	K-II	<a href="#">Update Available</a>
M-9155.V2.3	Locomotive Command and Control Module (LCCM)—Functional Requirements	2018	K-II	<a href="#">Update Available</a>
M-9155.V2.4	Locomotive Command and Control Module (LCCM)—Functional Requirements	2019	K-II	<a href="#">Update Available</a>
M-9155.V2.4.1	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	<a href="#">Update Available</a>
M-9155.V2.5	Locomotive Command and Control Module (LCCM)—Functional Requirements	2021	K-II	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
S-9101C V1.0	Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor	2018	K-II	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
M-1005	Locomotive Electronics Safety Assessments and Analyses	2022	M	<a href="#">Update Available</a>
S-9101 V1.2	Locomotive Electronics System Architecture	2019	K-II	<a href="#">Update Available</a>
S-9101.V1.2.1	Locomotive Electronics System Architecture	2022	K-II	<a href="#">Update Available</a>
S-5512	Locomotive Event Recorder Download Standard (RETIRED 02/22/2021)	2021	M	<a href="#">Update Available</a>
RP-5503	Locomotive Fueling Interface	2001	M	
S-5530	Locomotive Headlight Control	2018	M	
RP-5122	Locomotive Horn Valve Handle with Soft, Resilient-Type Rubber Cover	2001	M	
S-5500	Locomotive Interchange Agreement	2007	M	

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S-5514	Locomotive Operator Control Symbols	2011	M	
RP-548	Locomotive Rating Train/Track Resistance	2001	M	
S-9101E V1.1	Locomotive System Integration Communications	2016	K-II	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
M-1001 Chapter 4	M-1001 Chapter 4 - Design	2022	C-II	<a href="#">Update Available</a>
M-1001 Chapter 6	M-1001 Chapter 6 - General Design and Test Requirements—Tank Cars	2022	C-II	<a href="#">Update Available</a>
S-6200	Machine Vision Detector	2021	F	<a href="#">Update Available</a>
RP-5595	Main Reservoir Equalizing End Hose Coupling	2001	M	
M-1002 AppU	Maintenance Program Development	2022	C-III	<a href="#">Update Available</a>
S-659	Mandatory Rules Governing Wheel Shop Practices as Required by Interchange Rules	2022	G-II	
S-910	Marking of Freight Cars	2023	C	<a href="#">Update Available</a>
M-1002 AppC	Marking of Tank Cars	2023	C-III	<a href="#">Update Available</a>
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	2023	N	
M-993	Mechanical Certification of Flatcars for Autorack Service	2023	N	
RP-546	Minimum Requirements for Main Reservoir System on New and Rebuilt Diesel-Electric, Electric, and Gas Turbine Locomotives of 800-hp Capacity and Greater	2001	M	
S-9553A	Mobile Communications Package	2002	K-VI	
RP-612	Mounting Pressures for Wrought and Cast Steel Wheels on Gear-Driven and Idler Axles of Locomotives Other than Steam	2004	G	
S-5529	Multiple Unit Pneumatic Brake Equipment for Locomotives	2008	M	
S-9357	Mutually Authenticated Key Exchange	2019	K-IV	<a href="#">Update Available</a>
S-362	No-Go Gauge for Brake Shoe	1944	E	

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M-912	Oil, Control Valve	2002	E	
S-132	Operating Mechanism, Type No. 6, Interlocking	2003	S-III	
RP-5124	Padded Sun Visor in Locomotive Cab—Engineer’s Side Only	2001	M	
S-4045	Passenger Equipment Maintenance Requirements (formerly S-045)	2013	E	
M-1006	Passenger Equipment Performance Specification	2019	M	
S-3008	Performance of Devices or Designs to Control Yaw Dynamics in Freight Car Trucks	1997	D	
S-5506	Performance Requirements for Diesel Electric Locomotive Fuel Tanks	2001	M	
S-4250	Performance Requirements for ITC-Controlled Cable-Based Distributed Power Systems	2014	E-II	
RP-905	Performance Requirements for Refrigerated Boxcar Fuel Tanks	2006	C	
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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	2017	C	
M-118	Pin, Coupler Knuckle Pivot and Coupler Shank Connecting, Steel	2018	B	
S-4022	Pipe, Other than Schedule 80 Iron (RETIRED 04/16/2020)	2006	E	<a href="#">Update Available</a>
S-184	Pocket Tolerances—EOC-10	2011	B	
S-182	Pocket Tolerances—EOC-8	2011	B	
S-183	Pocket Tolerances—EOC-9	2011	B	
M-951	Portable Bridge Plates for Multi-Level Autorack Cars	2023	N	
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	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
S-9501	Positive Train Control Data Model Definition	2018	K-VI	<a href="#">Update Available</a>
S-9080.V3	Positive Train Control Interoperability Committee Policy	2022	K-I	<a href="#">Update Available</a>
S-9080.V4	Positive Train Control Interoperability Committee Policy	2022	K-I	<a href="#">Update Available</a>

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RP-9457.V2	Interoperable Train Control / Positive Train Control Master Test Strategy (MTS)	2021	K-V	<a href="#">Update Available</a>
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S-9053	Positive Train Control ITC System Requirements—Level 0	2018	K-I	<a href="#">Update Available</a>
S-9054	Positive Train Control ITC System Requirements—Level 1	2018	K-I	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
S-9361 V3.1	Positive Train Control Office-Locomotive Segment—Interface Control Document (ICD)	2021	K-IV	<a href="#">Update Available</a>
S-4047	Positive Train Control—Locomotive Air Brake Interface Requirements	2017	E	
S-9103	Precision Navigation Module Interface Control Document (ICD)	2021	K-II	<a href="#">Update Available</a>
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-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	<a href="#">Update Available</a>
S-9372.V1.1	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2016	K-IV	<a href="#">Update Available</a>
S-9372.V2.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2018	K-IV	<a href="#">Update Available</a>
S-9372.V3.0	PTC Back Office Segment—Energy Managementinterface Control Document (ICD)	2023	K-IV	<a href="#">Update Available</a>
S-9371.V1.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2014	K-IV	<a href="#">Update Available</a>
S-9371.V2.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2018	K-IV	<a href="#">Update Available</a>
S-9371.V3.0	PTC Onboard Segment—Energy Management Interface Control Document (ICD)	2021	K-IV	<a href="#">Update Available</a>

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S-9502.V1.0	PTC Track Data Exchange	2020	K-VI	<a href="#">Update Available</a>
S-9502.V1.1	PTC Track Data Exchange	2020	K-VI	<a href="#">Update Available</a>
S-9502.V2.0	PTC Track Data Exchange	2024	K-VI	<a href="#">Update Available</a>
S-2009	Push Rod, Brake Cylinder	1964	E	
M-1002 AppD	Qualification and Maintenance Requirements for Tank Cars	2023	C-III	<a href="#">Update Available</a>
M-915	Quality Assurance Requirements for Locomotives and Locomotive Components	2023	M	<a href="#">Update Available</a>
S-2038	Rack Car, Multilevel, with or without Door or Roof, Enclosed—Safety Appliance Standards	2017	C	
S-259	Rail Car, 286,000-lb Gross Weight	1994	C	
S-9552	Railroad Communications Network	2004	K-VI	
S-9401	Railroad Electronics Environmental Requirements	2009	K-V	
S-9401.V1.1	Railroad Electronics Environmental Requirements	2024	K-V	
S-9353.V1.0	Railroad Electronics Standards Committee (RESC) Data Dictionary	2019	K-IV	<a href="#">Update Available</a>
S-9353.V1.1	Railroad Electronics Standards Committee (RESC) Data Dictionary	2021	K-IV	<a href="#">Update Available</a>
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	<a href="#">Update Available</a>
RP-589	Rating for Specific Fuel Consumption of Diesel Electric Locomotives	2022	M	<a href="#">Update Available</a>
RP-5126	Recessed Windshield Wiper Valve, Train-Order Light Switch, and Flush-Mounted Train-Order Light	2001	M	
RP-631	Recommended Wheel Shop Practices	2022	G-II	
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	2022	C	<a href="#">Update Available</a>
S-5531	Remote Monitoring Equipment, Locomotive—Installation	2019	M	
M-1002 AppR	Repair, Alteration, and Conversion to Tank Car Tanks	2019	C-III	<a href="#">Update Available</a>

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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	2009	B	
S-445	Retaining Valve—Location	2002	E	
S-446	Retaining Valve, 1967-Type, Three-Position	2002	E	
M-1002 AppD	Retest and Qualification Requirements	2021	C-III	<a href="#">Update Available</a>
S-916	Retroreflective Comparator Panel Requirements	2018	C	
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	<a href="#">Update Available</a>
S-725	Roller Bearing Manual—Manufacture of Interchangeable Roller Bearing Components	2018	H-II	
S-726	Roller Bearing Manual—Remanufacture of Roller Bearing Components	2022	H-II	<a href="#">Update Available</a>
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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M-916	Sand for Traction	2017	M	
M-1002	Selected AAR Circular Letters	2022	C-III	<a href="#">Update Available</a>
AppY				
S-394	Side Bearing Pad for Two-Hole Application	1997	D	
S-235	Side Bearing Wear Plate—Car Body	2012	C	
S-213	Side Door and Door Frames, Boxcar—Plug Type	2024	C	<a href="#">Update Available</a>
S-212	Side Door, Boxcar—Sliding Type	2012	C	
M-210	Side Frame and Bolsters, AAR Approved—Purchase and Acceptance	2021	S	
S-377	Side Frame Keys for AAR Standard and Alternate Standard Pedestal-Type Side Frames	1966	D	
S-318	Side Frame—Bolster Rotation Stop Lug	1965	S-II	
S-3003	Side Frame—Column Friction Wear Plate, Application	1983	D	
S-320	Side Frame—Column Wear Plate, Application	1983	D	
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S-325	Side Frame, Narrow Pedestal—Limiting Dimensions	2009	S-II	
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S-2035	Side Handhold, Additional—Hopper and High-Side Gondola Cars	2017	C	
S-378	Side Frame, Cast Steel—Marking and Mating	2010	S-II	
S-3011	Side Frame, Standard Pedestal-Type Size 6 in. × 11 in. with Side Frame Key—Limiting Dimensions	1997	S-II	
S-461	Single-Capacity Freight Brakes—Performance Specification	2019	E	<a href="#">Update Available</a>
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	
S-423	Slack Adjuster Reclamation—Automatic, Double-Acting, Mechanical Slack Adjusters	2010	E	
RP-400	Slack Adjuster—General Information	2002	E	
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	
S-422	Slack Adjuster, Top Rod Application (Group E)	2002	E	
S-9417	SMIA-2 Service Template	2023	K-V	
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S-9414.V1.0	SMIA-Service Registry	2024	K-V	
M-975	Span Bolsters	2020	S	
RP-557	Spark Arrester	2001	M	

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M-1001 AppC	Specification for Instrumented Wheel Sets	2022	C-II	<a href="#">Update Available</a>
M-1002 AppM	Specifications for Materials	2022	C-III	<a href="#">Update Available</a>
M-1003	Specification for Quality Assurance	2024	J	<a href="#">Update Available</a>
S-3006	Specification for Recertified “D” Series Helical Truck Springs	1988	D	
S-3009	Specification for Self-Locking Cotter Keys	1992	E	
S-3013	Specifications Covering Surface of Truck Bolster Side Bearing Mounting Pad	1997	D	
M-1004	Interoperable Fuel Tenders for Locomotives	2023	T-I	
M-1002 AppM	Specifications for Materials	2018	C-III	<a href="#">Update Available</a>
S-3007	Specifications for the Certification of New Truck Designs for Compatibility with Hot Bearing Detection Systems	1991	D	
RP-306	Spring Test Machine	1961	D	
RP-307	Spring Test Machine	1961	D	
S-332	Spring—D2, 1 5/8-in. Travel	1964	D	
S-333	Spring—D3, 2 1/2-in. Travel	1977	D	
S-334	Spring—D4, 3 1/16-in. Travel	1977	D	
S-335	Spring—D5, 3 11/16-in. Travel	1977	D	
S-336	Spring—D6, 3 3/8-in. Travel	1976	D	
S-337	Spring—D6A, 3 15/16-in. Travel	2010	D	
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S-341	Spring—Groups D3, D4, D5, and Snubber	2010	D	
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S-343	Spring—Groups D5 and Hydraulic Snubber	2010	D	
S-339	Spring—Groups for D2	1981	D	
S-3016	Spring—Groups for Free, Unrestricted Interchange for 286,000 GRL Cars (M-976 and S-286 Approved Trucks)	2018	D	
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RP-208	Stake Pocket—Permanent	1998	C	

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M-1002 AppZ	Statistically Valid Sample Plans	2022	C-III	<a href="#">Update Available</a>
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S-815	Tie-Down Chain Assemblies for Multi-Level and Other Flat Cars, Refurbished High Test Grade 43 or Alloy Grade 80	2023	N	
M-990	Tie-Down Tracks, Wheel Chocks, and Straps (Tri-Level Autoracks)	2023	N	
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M-934E	Universal Fitted Backing Rings For Freight Car Tapered-roller Journal Bearings	2019	H	
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M-991	Vehicle Door Edge Protection System for Multi-Level Autorack Cars	2023	N	
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RP-307	Spring Test Machine	1961	D	
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M-950	Universal Wide-Body Tri-Level Fully Enclosed Autorack Car (Low Deck)	2023	N	<a href="#">Update Available</a>
M-950-A	Universal Wide-Body Bi-Level Fully Enclosed Autorack Car (Standard Deck)	2023	N	<a href="#">Update Available</a>
M-951	Portable Bridge Plates for Multi-Level Autorack Cars	2023	N	
M-956	Requirements Governing Superstructures to Cars Equipped With Sliding Sill or End-of-Car Cushioning Devices	2023	N	
M-957	Tie-Down Tracks, Winches, and Chains	2023	N	
M-970	Condition-Based Certification of Multi-Level Auto Rack Cars	2023	N	<a href="#">Update Available</a>
M-971	Non-Grease Lubricant for Autorack Equipment	2023	N	
M-990	Tie-Down Tracks, Wheel Chocks, and Straps (Tri-Level Autoracks)	2023	N	
M-991	Vehicle Door Edge Protection System for Multi-Level Autorack Cars	2023	N	
M-992	Designated Satellite Shop Repair Specifications for Multi-Level Autorack Cars	2023	N	
M-993	Mechanical Certification of Flatcars for Autorack Service	2023	N	
RP-802	Wheel Chock Strap Assembly Replacement	2023	N	
RP-803	Ride Quality Performance Requirements for Motor Vehicle Shipments	2023	N	
RP-804	Measurement Requirements for Remote Ride Quality Monitoring	2023	N	
RP-810	Handling and Inspection of Vehicles Before Loading	2023	N	
RP-811	Loading of Vehicles	2023	N	
RP-812	Handling and Inspection of Multi-Level Cars and Equipment After Loading	2023	N	
RP-813	Handling of Multi-Level Cars in Trains and Yards	2023	N	
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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-831	Standard Vehicle Nomenclature	2023	N	
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	
M-105	Forgings, Carbon Steel Blooms, Billets, and Slabs	1964	S	
M-126	Forgings, Carbon Steel	1968	S	
M-127	Forgings, Alloy Steel	1964	S	
M-131	Blooms, Billets, and Slabs—Alloy Steel	1964	S	
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M-202	Truck Bolsters, Cast or Structural—Design and Testing	2021	S	
M-203	Truck Side Frames, Cast Steel—Design and Testing	2021	S	<a href="#">Update Available</a>
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M-204	Truck, Freight Car, with Car Body/Side Frame Load Path—Design and Testing	2011	S	
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M-210	Side Frame and Bolsters, AAR Approved—Purchase and Acceptance	2021	S	
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M-212	Couplers and Yokes, Secondhand—Classification and Reconditioning Procedure	2023	S	<a href="#">Update Available</a>
M-213	Truck Frames, Fabricated Steel	2021	S	
M-214	Side Frames and Bolsters, Used and Reconditioned—Classification and Repair Procedure	2024	S	<a href="#">Update Available</a>
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M-216	Knuckles, Types E and F—Fatigue Test	2023	S	<a href="#">Update Available</a>
M-220	Casting Component Nondestructive Testing Requirements	2022	S	<a href="#">Update Available</a>
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M-112	Springs-Carbon Steel Bars, plate Steel-Bars, Truck Springs	Archived 02/23/2007 via C-10469
M-113	Springs-Elliptical, Leaf style Steel-Bars and Bands for Elliptical Springs	Archived 02/23/2007 via C-10469
M-504	Copper-Tubes, Types A and B Tubes-Copper, Seamless	Archived 02/23/2007 via C-10469
M-604	Hose-Cold Water, Wrapped, Braided	Archived 02/23/2007 via C-10469
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M-608	Hose-Air, Pneumatic Tools	Archived 02/23/2007 via C-10469
M-617	Hose-Fuel Oil Dispensing	Archived 02/23/2007 via C-10469
M-901C	Draft Gear—36 in. Pocket	Archived 10/23/2006 via C-10375
M-901H	Draft Gear—Impact Testing, Alternate Standard	Archived 10/23/2006 via C-10375
M-907	Lumber-Classification Lumber-Nomenclature, Schedule, Grading Wood-Lumber Nomenclature, Grading, Sizes	Archived 08/10/2007 via C-10569
M-907A	Flooring—Laminated Wood	Archived 08/10/2007 via C-10569
M-922	Cap Screws-Self Locking Nuts-Self Locking	Archived 02/23/2007 via C-10469
M-945	Adjustable Bulkheads Pneumatic Type for Box Cars	Archived 02/23/2007 via C-10467
M-946	For Adjustable Bulkheads Non-Pneumatic Type for Box Cars	Archived 02/23/2007 via C-10467
M-953	Minimum Requirement Standard for Railroad Flatcars for Handling farm and Industrial Equipment	Archived 04/30/2008 via C-10721
M-960	Adjustable Column Type Bulkheads for Box Cars	Archived 02/23/2007 via C-10467
M-962	Remanufacture of TOFC Trailers	Archived 11/02/2017 via C-12983
RP-011	Car Rack for Mounted Wheel Sets Flat Car Rack for Mounted Wheels Mounted Wheels-Rack for Shipment Rack-Wheel Sets, Shipments	Archived 02/23/2007 via C-10469
RP-012	Rivet-Two Piece, Safety Appliance Safety Appliance-Two Piece Rivet Two Piece Rivet-Safety Appliances	Archived 02/23/2007 via C-10469
RP-021	Implementation of Equipment Identification and Warranty Administration	Archived 10/27/17 via C-12977
RP-202	Center Plate-Unit Pressures	Archived 02/23/2007 via C-10467
RP-203	Door-Stock Car	Archived 02/23/2007 via C-10467
RP-204	Lumber-Moisture Content	Archived 08/10/2007 via C-10569
RP-205	Car-Lumber Lining Boards	Archived 02/23/2007 via C-10467
RP-207	Defect Card Receptacle	Archived 03/23/2011 via C-11409
RP-210	Alcohol Burning Heater	Archived 02/23/2007 via C-10467
RP-211	Refrigerator Car Drain Extension	Archived 02/23/2007 via C-10467
RP-212	Boxcar, Insulated—Heat Transmission Rate	Archived 04/16/2007 via C-10486

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RP-220	Stringer-Arrangement, Box Car	Archived 02/23/2007 via C-10467
RP-222	Univ. Pocket-Cushion 15", E6OCHT Coupler	Archived 02/23/2007 via C-10467
RP-223	Univ. Pocket-Cushion 10, EGOCHT, E67AHT	Archived 02/23/2007 via C-10467
RP-224	Univ. Pocket-Cushion 15", E67AHT Coupler	Archived 02/23/2007 via C-10467
RP-225	Univ. Pocket-Cushion 1 0 , E68AHT, F79AHT	Archived 02/23/2007 via C-10467
RP-226	Univ. Pocket-Cushion 10" E69HTE Coupler	Archived 02/23/2007 via C-10467
RP-229	Liquefied Petroleum Cylinder	Archived 02/23/2007 via C-10467
RP-230	Cradle Blocking, Cax Dumping Machine	Archived 02/23/2007 via C-10467
RP-235	Bolster-Body, Box Car	Archived 02/23/2007 via -10467
RP-236	Bolster-Body, Diagonal Brace, Hopper Car	Archived 02/23/2007 via C-10467
RP-237	Crossbearer-Box Car	Archived 02/23/2007 via C-10467
RP-238	Hopper Car-Crossbearer	Archived 02/23/2007 via C-10467
RP-239	Box Car-Crosstie	Archived 02/23/2007 via C-10467 but reinstated as S-239, its former number, 02/04/2012 via C-11615
RP-240	Door-Single, Sliding, Panel Type	Archived 02/23/2007 via C-10467
RP-241	Door-Double, Sliding, Panel Type	Archived 02/23/2007 via C-10467
RP-242	Door-Single, Plug, No. 3 Type	Archived 02/23/2007 via C-10467
RP-243	Door-Plug and Sliding No.3 Type	Archived 02/23/2007 via C-10467
RP-244	Door Arrangement Double Plug Type No. 3	Archived 02/23/2007 via C-10467
RP-245	Gondola Car-End Arrangement	Archived 02/23/2007 via C-10467
RP-246	Gondola Car-Drop End Arrangement	Archived 02/23/2007 via C-10467
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RP-248	Hopper Car-End Arrangement	Archived 02/23/2007 via C-10467
RP-249	Box Car-Grain Door Nailers	Archived 02/23/2007 via C-10467
RP-250	Hopper Arrangement-Cast Steel Frame	Archived 02/23/2007 via C-10467 (formerly S-250)
RP-251	Hopper Arrangement-Two Piece Hopper	Archived 02/23/2007 via C-10467 (formerly S-251)
RP-252	Roof Arrangement-Diagonal Panel, Box Car	Archived 02/23/2007 via C-10467
RP-253	Refrigerator Car Specifications	Archived 02/23/2007 via C-10467
RP-254	Anti-Pilferage Device—Boxcar Sliding Door	Renumbered S-2049 4/25/2007
RP-255	Anti-Pilferage Device—Boxcar Plug Door	Renumbered S-2050 4/25/2007
RP-256	Floor Restraint, Intermodal Container Cars	Archived 02/23/2007 via C-10467
RP-257	Rail Compatible Vehicles	Archived 02/23/2007 via C-10467
RP-260	Double-Stack Container Cars	Archived 02/23/2007 via C-10467
RP-261	Center Bowl Liner and Lubricant—Double-Stack Container Car	Archived 11/25/2019 via C-13477
RP-300	Center Plate—Liner, Vertical 6 in. × 11 in.	Archived 07/14/2011 via C-11472
RP-301	Center Plate—Liner, Vertical 6 in. × 11 in.	Archived 07/14/2011 via C-11472
RP-305		Archived 07/14/2011 via C-11472
RP-5104	Locomotive Cab Seats	Archived 1/27/2016 via C-12559



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RP-545	Testing Electrical Components	Archived 01/04/2021 via C-13731
RP-619	Reference Groove for Multiple-Wear Diesel Wheels	Renumbered S-619
RP-750	Wheel Mounting Compound Approval Test Procedure	Archived 03/06/17 via C-12839
RP-800	Standards for Reconditioned Cross members and Doorway Members	Archived 02/23/2007 via C-10467
RP-900	Passenger Car	Archived 08/06/2020 via C-13630
RP-901	Boxcars Equipped with Removable Crossbars	Archived 08/06/2020 via C-13630
RP-902	Cars Equipped with Antipilferage Devices	Archived 08/06/2020 via C-13630
RP-903	Lading Strap Anchors	Archived 08/06/2020 via C-13630
RP-904	Gondola Cars with Wood Floors	Archived 08/06/2020 via C-13630
S-045	Passenger Equipment Car Maintenance Requirements	Renumbered S-4045
S-118	Periodic Inspection of Manufacturers' Facilities	Archived 06/20/2007 via C-10541
S-122	Draft Key Retainer	Archived 02/16/2011 via C-11381
S-2017	Striker—Casting	Renumbered RP-2017 02/23/2007 via C-10467
S-2018	Striker—E Coupler, 24 5/8 in. Riveted	Archived 02/23/2007 via C-10467
S-2019	Striker—E Coupler, 36 in. Riveted	Archived 02/23/2007 via C-10467
S-202	Coupler Height	Archived 02/23/2007 via C-10467
S-2021	Striker—E67 Coupler, 36 in. Welded	Archived 02/23/2007 via C-10467
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S-2030	Plate D—Obtaining Maximum Allowable Width of Car, Other Than at Centerline of Car, for Unrestricted (Plate B-1) and Limited (Plates C-1, H-1, J-1, and K-1) Interchange Service	Archived 7/31/2017 via C-12935
S-2031	Plate E—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
S-2032	Plate F—Equipment Diagram for Limited Interchange Service	Archived 7/31/2017 via C-12935
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S-2051	Plate J1—Maximum Width of Cars with Various Truck Centers	Archived 7/31/2017 via C-12935
S-2052	Plate K1—Maximum Width of Cars with Various Truck Centers	Archived 7/31/2017 via C-12935
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S-210	Center Plate—Gage, 12 in. Diameter	Archived 02/23/2007 via C-10467
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S-218	Door—Box Car End	Archived 02/23/2007 via C-10467
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S-227	Car—Lumber Sections	Archived 04/16/2007 via C-10467
S-228	Flat Car—Platform Width	Archived 02/23/2007 via C-10467
S-231	Meat Hook—Refrigerator Car	Archived 02/23/2007 via C-10467
S-237	Striker—F Coupler, 24 in. Riveted	Archived 02/23/2007 via C-10467
S-239	Draft Arrangement—E60 Coupler 24 in. Pocket	Renumbered RP-239
S-240	Draft Arrangement—E60 Coupler 24 in. Pocket, Former Standard	Archived 02/23/2007 via C-10467
S-241	Draft Arrangement—E67 Coupler 36 in. Pocket	Archived 02/23/2007 via C-10467
S-242	Draft Arrangement—E67 Coupler 36 in. Pocket, Former Standard	Archived 02/23/2007 via C-10467
S-246	Draft Arrangement—F70 Coupler, 24 in. Pocket (Riveting)	Archived 02/23/2007 via C-10467
S-248	Draft Arrangement—F79 Coupler 36 in. Pocket	Archived 02/23/2007 via C-10467
S-250	Center Filler—Rear Draft Lugs	Renumbered RP-250 02/23/2007 via C-10467
S-251	Bellmouth Striker—FC&F, P/S Thrall	Renumbered RP-251 02/23/2007 via C-10467
S-256	Body Bolster—Center Filler, Tolerances Integral Center Plate	Archived 02/23/2007 via C-10467
S-257	Body Bolster—Center Filler, Tolerances Die Pressed	Archived 02/23/2007 via C-10467
S-260	Bolster—Body, Center Filler 4 ft 11 in. OH	Archived 02/23/2007 via C-10467
S-261	Bolster—Body, Center Filler 5 ft 5 5/8 in. OH	Archived 02/23/2007 via C-10467
S-262	Bolster—Body, Center Filler 4 ft 11 in. OH	Archived 02/23/2007 via C-10467
S-263	Bolster—Body, Center Filler 5 ft 5 5/8 in. OH	Archived 02/23/2007 via C-10467
S-268	Corner Push Pad and Roping Staple—Hopper	Archived 02/23/2007 via C-10467
S-275	Door—End Door, Auto Box Car	Archived 02/23/2007 via C-10467

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ARCHIVED/RENUMBERED DOCUMENTS

<u>DocNo.</u>	<u>Title</u>	<u>Change</u>
S-3004	Truck Center Plate Liners or Wear Plates	Archived 11/25/2019 via C-13477
S-305	Center Plate Liner, Horizontal and Vertical	Archived 07/14/2011 via C-11472
S-4022	Pipe, Other than Schedule 80 Iron	Archived 04/16/2020 via C-13532
S-5021	Wheel Size and Speed Pickup Axle Identification	Archived 12/02/2016 via C-12763
S-5510	Plate L-Lomotive Diagram for Interchange Service	Archived 7/31/2017 via C-12935
S-5511	Locomotive-Based Top-of-Rail Friction Control Application	Archived 11/26/13 and again 8/5/15 via C-12429
S-590	Locomotive Electronics System Architecture	Archived 08/05/2015 via C-12430
S-729	Lubrication, Roller Bearing	Archived 03/06/2017 via C-12839
S-730	Lubrication, Center Plates	Archived 03/06/2017 via C-12839
S-731	Lubrication, Doors	Archived 03/06/2017 via C-12839
S-732	Inspection and Lubrication of Bulkheads in Freight Cars	Archived 03/06/2017 via C-12839
S-733	Inspection and Lubrication of Bulkheads in Freight Cars	Archived 03/06/2017 via C-12839
S-734	Lubrication, Tie-Down Devices on Multi-Level Automobile rack and Flatcars	Archived 03/06/2017 via C-12839
S-736	Inspection and Lubrication, Hand Brakes	Archived 03/06/2017 via C-12839
S-808	Interior Dunnage Equipment—Deck Boards	Archived 02/23/2007 via C-10467
S-809	Standardization of Saddleback Cars	Archived 02/23/2007 via C-10467
S-813	Device for Opening and Closing Side Doors on Boxcars	Archived 02/23/2007 via C-10467
S-814	Portable Bridge Plate for Saddleback Flatcars	Archived 02/23/2007 via C-10467
S-900	Flatcar—Class F	Archived 08/06/2020 via C-13630
S-901	Gondola Car—Class G	Archived 08/06/2020 via C-13630
S-902	Hopper Car—Class H	Archived 08/06/2020 via C-13630
S-903	Special Car—Class L	Archived 08/06/2020 via C-13630
S-904	Caboose—Class N	Archived 08/06/2020 via C-13630
S-905	Refrigerator Car—Class R	Archived 08/06/2020 via C-13630
S-907	Tank Car—Class T	Archived 08/06/2020 via C-13630
S-908	Boxcar—Class X	Archived 08/06/2020 via C-13630
S-909	Maintenance of Way Equipment—Class MW Cars Equipped with Loading Bars and Movable Bulkheads	Archived 08/06/2020 via C-13630
S-911	Clear Door Opening	Archived 08/06/2020 via C-13630
S-912	Clearance Plates	Archived 08/06/2020 via C-13630
S-913	Metrication Stenciling	Archived 08/06/2020 via C-13630
S-914	Loading Stencil—Refrigerator Car Floor	Archived 08/06/2020 via C-13630

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### 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.

<a href="#">MSRP-AS</a>	<a href="#">MSRP-E2</a>	<a href="#">MSRP-J</a>	<a href="#">MSRP-M</a>
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<a href="#">MSRP-D</a>	<a href="#">MSRP-H2</a>	<a href="#">MSRP-K5</a>	<a href="#">MSRP-T1</a>
<a href="#">MSRP-E</a>	<a href="#">MSRP-I</a>	<a href="#">MSRP-K6</a>	<a href="#">MSRP-T3</a>

#### Section AS Administrative Supplement (2015)

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

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

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

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

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
M-901E M-901G	08/07/2023	C-14199	Implementation of Revisions to MSRP Section B, Freight Car Draft Components, Specifications M-901E and M-901G Draft Gear Requirements, in regard to extending the limits of travel

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

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

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

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
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

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**Section C-III—Specifications for Tank Cars, M-1002 (2014) (page 1 of 2)**

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
Book	10/31/2014	CPC-1310	Availability of November 2014 version of the AAR Manual of Standards and Recommended Practices (MSRP), Section C Part III, Specifications for Tank Cars, M-1002
Chapter 2	04/7/2017	CPC-1325	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Chapter 2	07/27/2018	CPC-1336	Final Action, Update to revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Chapter 1 Appendix B	10/24/2018	CPC-1338	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B—Certification of Tank Car Facilities and Associated Chapter 1 Definitions (Docket T91.2.4)
Chapter 2	12/04/2018	CPC-1341	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 2
Appendix A Appendix M	12/12/2018	CPC-1342	Revision to the Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Appendix A and M
Chapter 1 Appendix D Appendix J	01/24/2019	CPC-1343	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 1, Appendix D, and Appendix J
Chapter 1 Appendix B Appendix J Appendix L Appendix R	11/05/2019	CPC-1350	Implementation of Editorial Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B—Certification of Tank Car Facilities and Associated Chapter 1 Definitions (Docket T91.2.4)
Chapter 1 Appendix B	12/20/2019	CPC-1354	Final Action, Revision to MSRP Section C Part III, M-1002, Specifications for Tank Cars, Chapter 1, Appendix B
Appendix B	04/14/2020	CPC-1362	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B - Certification of Tank Car Facilities (Docket T91.2.4)
Chapter 1 Appendix A Appendix D	03/10/2021	CPC-1375	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1, Appendix A, and Appendix D (Docket T100.22.1) (Note: Regarding Chapter 1, also see CPC-1376)
Chapter 1 Appendix T	03/19/2021	CPC-1376	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1 and Appendix T (Docket T88.1-93)
M-1002 Appendix B	06/28/2021	CPC-1383	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B (Docket T91.2.6)
Chapter 1 Chapter 2 Appendix B	04/06/2022	CPC-1390	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1, Chapter 2, and Appendix B
Appendix B	06/16/2022	CPC-1395	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B
Appendix Z	06/16/2022	CPC-1396	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1 and Appendix Z
Appendix B	07/29/2022	CPC-1399	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B

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### Section C-III—Specifications for Tank Cars, M-1002 (2014) (page 2 of 2)

Doc Affected	Date	CL No.	Title
Chapter1 Chapter2 AppendixC AppendixD AppendixE AppendixM AppendixR AppendixU AppendixY	09/02/2022	CPC-1400	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapters 1 & 2, and Appendices C, D, E, M, R, U & Y
AppendixB	07/07/2023	CPC-1405	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix B
Chapter1 Chapter2 Appendix A AppendixC AppendixD AppendixE AppendixY	07/07/2023	CPC-1406	Implementation of Revisions to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapters 1 & 2, and Appendices A, C, D, E & Y
Chapter1 AppendixB AppendixE AppendixR AppendixV AppendixW	02/12/2024	CPC-1420	Implementation of Proposed Changes to MSRP Section C-III, Specification for Tank Cars (M-1002), Chapter 1, Appendices B, E, R, V, and W
AppendixE	03/05/2024	CPC-1421	Implementation of Proposed Changes to MSRP Section C-III, Specification for Tank Cars (M-1002), Appendix E

### Section D—Trucks and Truck Details (2019)

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

### 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)**

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

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

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

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

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
Book	04/10/2020	C-13527	Implementation of Revised MSRP, Section F - Sensors
S-920	06/29/2020	C-13604	Implementation of Revisions to MSRP Section F, Sensors, Standard S-920 AAR Component Identification (CID) Bar Code Standard, and MSRP Section B, Freight Car Draft Components, Cushioning Devices Specifications M-921B-C-D-E-F. Component Tracking.
S-6102	07/20/2020	C-13613	Implementation Circular for Additions to MSRP, Section F – Sensors: Standard S-6102, Wayside Passing Data Format.

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

Doc Affected	Date	CL No.	Title
S-920	11/05/2020	C-13695 C-13696	Implementation Circular: Revisions to MSRP Section F, SENSORS   S-920 AAR Component Identification Bar Code Standard Modifications to Section 17 – Emergency Brake Valve Portion CID Labels and Section 18 – Service Brake Valve Portion CID Labels.  Implementation Circular: Revisions to MSRP Section F, Sensors, S-920 AAR Component Identification - Bar Code Standard / Addition of Data Glossary Elements for Side Frames and Bolsters
S-920	03/10/2021	C-13754	Additions to MSRP Section F, SENSORS   S-920 AAR Component Identification Bar Code Standard: Tank Car Service Equipment: Pressure Relief Valves (PRV)
S-6000 S-6001 S-6002 S-6003 S-6004 S-6005 S-6006 S-6008 S-6009 S-6021 S-6102 S-6103 S-6200	05/26/2021	C-13821	Implementation of Editorial Updates to MSRP, Section F, Sensors - Multiple Standards
S-6101	06/02/2021	C-13822	Implementation Circular: MSRP Section F, Sensors, Standard S-6101, Detector Calibration & Validation Requirements: Wheel Impact Load Detector (WILD) Validation Plan
S-920	06/04/2021	C-13823	Implementation of Editorial Updates to MSRP, Section F, S-920, Component Identification Bar Code Standard
S-920	06/08/2021	C-13824	Implementation of Additional/Corrected Editorial Updates to MSRP, Section F, S-920, Component Identification Bar Code Standard
S-920	07/06/2021	C-13833	Implementation Circular: MSRP Section F, Sensors, Standard S-920, Component Identification Bar Code Standards / Sections 12 & 13
S-6101	01/11/2022	C-13925	Implementation Circular: MSRP Section F, Sensors, Standard S-6101, Detector Calibration & Validation Requirements: Acoustic Bearing Detector (ABD) Validation Standards
S-920	06/30/2022	C-13998	Implementation: Revisions to MSRP F, Sensors, S-920, Component Identification Bar Code Standard - Section 10 Wheel Set CID Labels
S-6103	08/30/2022	C-14018	Implementation: Revisions to MSRP F, Sensors, S-6103 Wheel Profile Detector - Section 5.0 Measurement Standards
S-6008	09/26/2022	C-14026	Implementation Circular: Revisions to MSRP F, Sensors, S-6008 Data Summary - Salient Wheel Impact
S-920	10/11/2022	C-14031	Informational: Implementation of Editorial Modifications to S-920 Appendices A-H (Registered Component Data Glossaries)

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

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S-6101	12/05/2022	C-14084	Implementation Circular: MSRP Section F, Sensors, Standard S-6101, Detector Calibration & Validation Requirements: Archived WILD Validation Standards
S-920	01/03/2023	C-14097	Implementation Circular: MSRP Section F, Sensors, Standard S-920, Component Identification Bar Code Standards / Appendix D - Coupler Body Data Glossary
S-6101	11/28/2023	C-14278	Implementation Circular: MSRP Section F, Sensors, Standard S-6101, Detector Calibration & Validation Requirements - Acoustic Bearing Detector (ABD) Fault Descriptor Validation
S-6001	11/29/2023	C-14282	Implementation Circular: MSRP Section F, Sensors, Standard S-6001, Bearing Temperature Performance

**Section G—Wheels and Axles (2016)**

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

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

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

**Section H—Journal Bearings and Lubrication (2021)**

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
Book	04/29/2021	C-13785	Implementation of Revised MSRP Section H, Journal Bearings and Lubrication, 2021
S-726	10/12/2022	C-14033	Implementation of Revisions to MSRP Section H-II, Roller Bearing Manual, Standard S-726, Cone Marking Requirement

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

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
Book	10/12/2021	C-13855	Implementation of Revised MSRP Section H-II, Roller Bearing Manual, 2021
S-723	01/03/2024	C-14295	Implementation of Revisions to MSRP Section H-II, Roller Bearing Manual, Standard S-723, Vented Backing Rings

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### Section I—Intermodal Equipment Manual (2018)

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

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

Doc Affected	Date	CL No.	Title
Book	10/15/2019	C-13420	Implementation of Revision to MSRP Section J, M-1003 Specification for Quality Assurance
M-1003	09/04/2020	C-13644	Implementation of Revisions to Appendix A of Section J, Specification for Quality Assurance M-1003
Book	01/10/2022	C-13924	Implementation of Revision to AAR MSRP Section J, Specification for Quality Assurance M-1003
Book	02/01/2024	C-14306	Implementation of Revision to AAR MSRP Section J, Specification for Quality Assurance M-1003

### Section K-I—Railway Electronics Systems Architecture and Concepts of Operation (2014) (page 1 of 2)

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
S-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

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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-9054.V2.0	12/07/2018	C-13253	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concepts of Operations, Positive Train Control ITC System Requirements - Level 1, Standard S-9054.V2.0
S-9010.V1.0	07/24/2019	C-13385	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Data Protection, Standard S-9010.V1.0
S-9080.V1.0	10/17/2019	C-13422	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V1.0
S-9080.V2.0	09/30/2020	C-13655	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9080.V2.0
S-9074.V1.0	11/05/2020	C-13694	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9074.V1.0
S-9081.V1.0	12/18/2020	C-13726	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.0
S-9058.V1.0	01/19/2021	C-13736	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9058.V1.0
S-9081.V1.1	02/26/2021	C-13749	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.1
S-9081.V1.2	03/08/2021	C-13753	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9081.V1.2
S-9076.V1.0	08/17/2021	C-13841	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-I Railway Electronics Systems Architecture and Concept of Operations, Standard S-9076.V1.0
S-9075.V1.0	07/19/2022	C-14003	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concepts of Operations, Standard S-9075.V1.0
S-9080.V3.0	08/05/2022	C-14009	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-1 Railway Electronics Systems Architecture and Concept of Operations, Standard S-9080.V3.0

**Section K-II—Locomotive Electronics and Train Consist System Architecture**  
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Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI

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M-9154B.V1.0	01/23/2015	C-12326	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-II, Locomotive Electronics and Train Consist Architecture, Intra-Consist Communications (ICC) Layer 2, M-9154B.V1.0.
M-9155.V2.0	05/19/2015	C-12384	Railway Electronics Standards Committee, Specification M-9155.V2.0—Locomotive Command and Control Module (LCCM)—Functional Requirements
M-9155.V2.1	11/2/2015	C-12465	New Circular Letter Release: Implementation of Revision to MSRP, Section K-II, Specification M-9155.V2.1 - Locomotive Command and Control Module (LCCM) Functional Requirements
M-9155.V2.2	08/23/2016	C-12704	New Circular Release: Implementation of Changes to MSRP, Section K-II, Specification M-9155.V2.2, Locomotive Command and Control Module (LCCM) – Functional Requirements.
S-9101E.V1.1	09/30/2016	C-12716	New Circular Letter Release: Implementation of Changes to MSRP, Section K-II, Specification S-9101E.V1.1—Locomotive System Integration Communications
S-9152.V2.2	09/30/2016	C-12717	New Circular Letter Release: Implementation of Changes to MSRP, Section K-II, Standard S-9152.V2.2—End-of-Train Communications
S-9101.V1.1	11/03/2016	C-12730	New Circular Release: Implementation of Changes to the MSRP, Section K-II, Standard S-9101.V1.1—Locomotive Electronics System Architecture (LESA) and Appendix F— Locomotive Interface Gateway (LIG)
S-9101C.V1.0	07/13/2018	C-13170	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Loco Electronics & Train Consist System Architecture, Locomotive Data Acquisition and Recording System (LDARS)—Event Data Acquisition Processor, Standard S-9101C.V1.0
S-9101G.V1.0	07/13/2018	C-13171	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics & Train Consist System Architecture, Locomotive Data Acquisition and Recording System (LDARS) - Common File Format Standard, Standard S-9101G.V1.0
M-9155.V2.3	10/04/2018	C-13204	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements, Specification M-9155.V2.3
M-9155.V2.4	08/30/2019	C-13402	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Locomotive Command and Control Module (LCCM)—Functional Requirements Specification M-9155.V2.4
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

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S-9101.V1.2	08/30/2019	C-13404	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Standard S-9101 Appendix F
M-9155.V2.4.1	09/10/2021	C-13851	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.4.1.
S-9103.V1.0	10/25/2021	C-13860	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9103.V1.0
M-9155.V2.5	12/20/2021	C-13918	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Consist System Architecture, Specification M-9155.V2.5
S-9101 Appendix F.V1.2	09/21/2022	C-14025	Implemented, AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101 Appendix F V1.2
S-9101.V1.2.1	12/16/2022	C-14090	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9101.V1.2.1
S-9102.V1.0	12/16/2022	C-14091	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-II Locomotive Electronics and Train Control System Architecture, Standard S-9102.V1.0

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

Doc Affected	Date	CL No.	Title
Book	08/01/2014	C-12211	New Release of Railway Electronics Standards Sections K-I through K-VI
S-9203.V1.1	04/27/2020	C-13547	Implementation of AAR Manual of Standards and Recommended Practices (MSRP), Section K-III Office Architecture and Railroad Electronics Messaging, Standard S-9203.V1.1
S-9203A.V1.1	04/27/2020	C-13549	Implementation of AAR Manual of Standards and Recommended Practices (MSRP), Section K-III Office Architecture and Railroad Electronics Messaging, Standard S-9203A.V1.1

**Section K-IV—Office Architecture and Railroad Electronics Messaging**  
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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

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S-9372.V1.0	11/25/2014	C-12300	Implementation of New AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, PTC Back Office Segment—Energy Management Interface Control Document (ICD), S-9372.V1.0
S-9364.V1.1	06/05/2015	C-12399	Railway Electronics Standards Committee, Standard S-9364.V1.1—I-ETMS Onboard Segment Data Distribution Messages Interface Control Document (ICD)
S-9372.V1.1	06/06/2016	C-12652	New Circular Release: Implementation of Changes to MSRP, Section K-IV, Standard S-9372.V1.1—PTC Back Office Segment—Energy Management Interface Control Document (ICD)
S-9361.V1.2	07/05/2016	C-12681	New Circular Release: Implementation of Changes to MSRP, Section K-IV, Standard S-9361.V1.2, Positive Train Control Office—Locomotive Segment—Interface Control Document (ICD)
S-9376.V1.0	10/19/2016	C-12725	New Circular Release: Implementation of New Standard in MSRP, Section K-IV, Standard S-9376.V1.0—Edge Message Protocol (EMP) Subscribe Message Interface Control Document (ICD)
S-9364.V2.0	01/18/2017	C-12786	New Circular Letter Release, S-9364.V2.0—I-ETMS® Onboard Segment Data Distribution Messages Interface Control Document (ICD), In Support of AAR Manual of Standards and Recommended Practices (MSRP), Section K-4, Railway Electronics Messaging Stand
S-9361.V2.0	06/28/2018	C-13165	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, Positive Train Control (PTC) Office—Locomotive Segment—Interface Control Document (ICD), Standard S-9361.V2.0
S-9372.V2.0	06/28/2018	C-13166	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Railroad Electronics Messaging Standards, PTC Back Office Segment-Energy Management Interface Control Document (ICD), Standard S-9372.V2.0
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.

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S-9371.V2.0	10/30/2018	C-13222	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, PTC Onboard Segment-Energy Management Interface Control Document (ICD) Standard S-9371.V2.0
S-9356.V2.0	10/30/2018	C-13223	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Class D Messaging Standard S-9356.V2.0
S-9379.V1.0	12/7/2018	C-13251	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Requirements For Using An ITC EMP Application Gateway, Standard S-9379.V1.0
S-9357.V1.0	06/28/2019	C-13371	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Mutually Authenticated Key Exchange, Standard S-9357.V1.0
S-9358.V1.0	06/28/2019	C-13372	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and Railroad Electronics Messaging, Anonymous Key Exchange, Standard S-9358.V1.0
S-9359.V1.0	06/28/2019	C-13373	IMPLEMENTED. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and railroad Electronics Messaging, Interoperable Certificate Revocation Responder Service, Standard S-9359.V1.0
S-9365.V3.0	08/11/2019	C-13395	Implemented. AAR Manual of Standards and Recommended Practices (MSRP), Section K-IV Office Architecture and RR Electronics Messaging, Locomotive Interface Gateway (LIG) Positive Train Control (PTC) Interface Control Document (ICD), Standard S-9365.V3.0
S-9353.V1.0	08/11/2019	C-13394	Implemented. AAR Manual of Standards and Recommended Practices (MSRP). Section K-IV Office Architecture and Railroad Electronics Messaging, Railroad Electronics Standards Committee (RESC) Data Dictionary, S-9353.V1.0
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

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

**Section K-V—Electronics Environmental Requirements and System Management**  
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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

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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
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

**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
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

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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

**Section M—Locomotives and Locomotive Interchange Equipment (2008)**

<b>Doc Affected</b>	<b>Date</b>	<b>CL No.</b>	<b>Title</b>
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

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**Section N—Multi-Level Manual (2017)**

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Book	05/08/2023	C-14144	Implementation of Revised AAR Manual of Standards and Recommended Practices Section N, Multi-Level Manual
M-950	12/20/2023	C-14291	Implementation of Revision to MSRP Section N, Specification M-950, Universal Wide-Body Tri-Level Fully-Enclosed Auto Rack Car (Low Deck)
M-950A	12/20/2023	C-14292	Implementation of Revision to MSRP Section N, Specification M-950A, Universal Wide-Body Bi-Level Fully-Enclosed Auto Rack Car
M-970	12/20/2023	C-14289	Implementation of Revisions to MSRP Section N, Specification M-970, Condition-Based Certification of Multi-Level Auto Rack Cars

**Section S-I—Casting Details (2021)**

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

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# AAR Manual of Standards and Recommended Practices

## Tables of Content

CIRCULAR LETTERS

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

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

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

Doc Affected	Date	CL No.	Title
Book	11/12/2020	C-13701	Implementation of Revised MSRP Section S-III, Coupler and Yoke Details, 2020
S-105	06/22/2021	C-13826	Implementation of Revisions to MSRP Section S-III, Coupler and Yoke Details, Standard S-105, Coupler E Type Detail Parts, regarding making reduced slack components standard

### 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

### 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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