

> Constellation  
> Heritage  
> 4700 Models

> 4800 Models  
> 4900 Models

> 5900 Models  
> 6900 Models

**Western Star  
Service Bulletin**

**Description of Revisions:** *This service bulletin replaces the version dated January 2013. It now lists all service bulletins published before April 1, 2013.*

## Active Service Bulletins

### Group 00, General Information

SB No.	Date	Service Bulletin Title
00-2	Feb08	Service Publications Price List
00-3	Apr02	Eaton RoadRanger Service Literature Updates Available
00-4	Jun05	Western Star Courtesy Engineering Policy
00-5	Apr08	Replacing Gross Vehicle Weight Rating (GVWR) Certification Labels
00-6	Feb06	Replacing GVWR Certification Labels
00-7	Jun06	Removal of Huskey™ 400 Corrosion Inhibitor
00-8	Aug06	Dealer Product Report
00-10	Dec06	Alliance Auxiliary Power Units
00-11	Oct08	Tips for Using ServiceLit in ServicePro
00-12	Dec08	New Hazard Type Used in Service Literature
00-13	Apr09	Aluminum and Stainless Steel Cleaning and Polishing
00-14	Jul09	New Operating Hours for the Customer Assistance Center
00-15	Apr12	Vibration and Harsh Ride Troubleshooting

### Group 01, Engine

SB No.	Date	Service Bulletin Title
01-5	Jan01	CAT C15, C16 Fuel Line Rubbing on Radiator Tie Rod Bracket
01-6	Nov02	Exhaust Brake Influence on ISC Carryover
01-7	May03	Replacing the Detroit Diesel ProDriver® Display Unit
01-8	Jan04	Detroit Diesel Support for MBE Engines
01-9	Nov04	Detroit Diesel Dipstick Marking
01-10	Apr05	Incorrect Detroit Diesel VPOD Plumbing
01-12	Sep05	DDE 60 Valve Cover Removal with 123 BBC
01-13	Nov09	Dealer Input on EPA10 Engine Issues
01-14	Apr08	Drive Belt Replacement, DD15 Engines

### Group 09, Air Intake

SB No.	Date	Service Bulletin Title
09-1	Aug00	Aftermarket Parts for Air Cleaner Elements
09-3	Jan13	EPA10 Cummins ISX Air Intake Heat Shield Removal

### Group 13, Air Compressor

SB No.	Date	Service Bulletin Title
13-1	May05	Air Governor Mounting Capscrew Replacement
13-2	Nov06	Pressure Relief Valve for Air Systems in Very Cold Conditions

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SB No.	Date	Service Bulletin Title
13-3	Jan07	CAT C15 Air Compressor Discharge Line Fitting Leak

**Group 15, Alternators and Starters**

SB No.	Date	Service Bulletin Title
15-1	Jan99	Alternator Mounting Bracket Replacement
15-3	Apr09	Delco Remy 31SI Alternator Replacement
15-4	Jun10	Leece Neville Alternator Remote-Sense Circuit
15-6	Jun11	Starting System Diagnosis

**Group 20, Engine Cooling/Radiator**

SB No.	Date	Service Bulletin Title
20-1	Oct92	1994 Electronic Fan Control Module Troubleshooting Guide
20-2	Jun93	New Fan Temperature Controls
20-3	Dec95	Surge Tank Redesign
20-4	Jul99	58SS and 59SS Top Recirculation Shield
20-5	Jul99	Extended Life Coolant in Cummins Engines
20-6	Mar00	Horton Fan Clutch Mounting Bolts
20-7	Nov00	Radiator Isolators on Vehicles with Heavy-Duty Hoods
20-8	Nov00	Radiator Isolators on Vehicles with Standard Hoods
20-9	Jan01	Remanufactured Fan Clutch Replacement
20-10	Jan04	ABA Hose Clamp Torque Values
20-11	Aug04	Lower Fan Shroud Contacting the Fan
20-12	Sep06	Horton Drivemaster Fan Clutch Hub Bearings
20-13	Oct10	Borg Warner (Kysor) Fan Clutch Nuts
20-14	Apr11	Coolant Filter Inspection Procedure, DD13/DD15/DD16 Only
20-15	Jan12	Conventional Fully-Formulated Coolant with SCA: Color Change
20-16	Apr12	Kysor Fan Clutch Sticking
20-18	<b>Mar13</b>	Western Star 4900 Radiator Mounting, Update—EPA10
20-19	<b>Feb13</b>	Kysor Fan Clutch Rocking Runout Inspection

**Group 26, Transmission**

<b>20-14</b>	<b>Apr11</b>	<b>Coolant Filter Inspection Procedure, DD13/DD15/DD16 Only</b>
SB No.	Date	Service Bulletin Title
26-1	Dec06	New ATF Specifications for Allison Transmissions
26-2	Dec07	Checking the Harness Connections on Eaton AutoShift™ and UltraShift™ Transmissions

**Group 31, Frame and Frame Components**

SB No.	Date	Service Bulletin Title
31-1	May98	Service Crossmember for HAS 40LH Suspension
31-2	Nov99	Front Cab Crossmember Replacement
31-4	Mar05	Holland Simplex® Fifth Wheel

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SB No.	Date	Service Bulletin Title
31-5	Mar10	Five-Piece Crossmember Replacement
31-6	May08	AirLiner Suspension Crossmember Gussets
31-7	Aug09	5-Piece Back-of-Cab Service Crossmember
31-8	May10	Replacing Alligator-Style Crossmembers
31-9	Nov12	Huck-Spin 2 Changeover

## Group 32, Suspension

SB No.	Date	Service Bulletin Title
32-2	Mar00	Hendrickson HAS Suspension Bump Stop
32-3	May99	Hendrickson HAS Suspension Tubular Crossmember Replacement
32-4	Sep00	Neway Suspension Upper Shock Bracket
32-7	May04	Heat Testing Shock Absorbers
32-8	Apr07	AirLiner Spring-Eye Bushing Replacement
32-9	Dec11	Hendrickson PRIMAAX®/PRIMAAX EX Suspension, Recommended Preventive-Maintenance Intervals
32-11	Sep10	AirLiner™ Suspension Air-Spring Bag Misalignment Troubleshooting
32-13	May11	AirLiner Suspension Air-Spring Assembly

## Group 33, Front Axle

SB No.	Date	Service Bulletin Title
33-1	Nov05	Tie-Rod and Drag-Link Ball-Stud Cover Deterioration
33-2	Sep08	Camber Modifications to STEERTEK Axles are Prohibited
33-3	Mar11	Wheel End Maintenance and Service, Steer Axles

## Group 35, Rear Axle

SB No.	Date	Service Bulletin Title
35-2	Oct04	Meritor MT-40-143MA-N Tandem Drive Axle Pinion Angles
35-3	Feb07	Tandem Axle Input Seal Leaks
35-4	Jul10	Breather Oil Leak on Freightliner Tandem Rear Axles
35-5	Mar11	Wheel End Maintenance and Service, Drive Axles
35-6	May11	Sealing the Lower Pinion Cover, Model 4 Freightliner Rear Axles
35-7	Feb12	Lubricating the Wheel Bearings, Rear Drive Axles
35-8	Apr12	Damaging Effects of Mismatched Tires On Tandem Axles
35-9	Apr12	New Finish and Torque Specifications for Axle Shaft Nuts

## Group 40, Wheels and Tires

SB No.	Date	Service Bulletin Title
40-1	May05	Chrome Wheel Nut Cover Fit

## Group 41, Driveline

SB No.	Date	Service Bulletin Title
41-1	Jan09	Half-Round U-Joints, New Tightening Procedure

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**Group 42, Brakes**

SB No.	Date	Service Bulletin Title
42-1	Feb98	Steel Air Tank Brackets
42-2	May06	Automatic Slack Adjuster Adjustment Caution
42-3	Aug06	Incorrectly Installed Rear Brake Air Chambers
42-4	Jul11	WABCO Air Dryer Noise with Detroit Diesel Engines
42-5	Aug12	Bendix® Air Disc Brake Thermal Overload Issues
42-6	Aug12	Brake Shimmy—Meritor® SteeLite X30™ Brake Drum With Excessive Runout

**Group 46, Steering**

SB No.	Date	Service Bulletin Title
46-6	Jan03	Overflowing Power Steering Reservoir
46-7	Sep04	Steering Column Adjustment
46-8	May10	Internal Leakage Test for TAS85 Steering Gears Equipped With an Internal Pressure Relief Valve
46-9	May11	TRW Power Steering Pump Installation, MB4000 Engines

**Group 47, Fuel**

SB No.	Date	Service Bulletin Title
47-1	Jun98	Fuel Tank Strap Replacement
47-2	Jul99	Severe Service J-Brackets
47-3	Jul00	Fuel Fittings on S60 Engines
47-4	Aug03	Fuel Line Replacement
47-5	Mar04	MBE4000 Fuel Filter
47-6	Jun04	Davco Wrench Available
47-9	Mar07	Resolving False Display of Diagnostic Code 128-57-4
47-10	May09	Insufficient Clearance Between Fuel Line and Fuel/Water Separator Mounting Bracket
47-11	June11	Fuel Line Fitting Replacement, ADR11 Trucks with 109 BBC
47-12	Jan12	Detroit® Fuel Additive Recommendations
47-13	Dec12	Crank/No Start, Loss of Engine Prime on Decked Vehicles

**Group 49, Exhaust**

SB No.	Date	Service Bulletin Title
49-1	Mar00	FVB Exhaust Bracket and Clamp
49-2	Feb09	Diesel Particulate Filter (DPF) Status Light On, EPA07 Engines
49-3	Nov07	Replacing the Exhaust Bellows for EPA07 Engines
49-4	Feb08	EPA07 Aftertreatment Device Visor Label
49-5	Sep08	Horizontally Mounted Aftertreatment Device Drain Hole Modification
49-6	Oct09	EPA07 Exhaust Piping Alignment
49-7	Jan12	EPA07 Exhaust Bellows Replacement
49-8	Jan12	New CGI Bellows
49-9	Mar12	EPA07 5-Inch Flex-Tube Exhaust Bellows Replacement, DD15
49-10	Sep12	Gentech DEF Coolant-Flow Solenoid, Testing and Replacement

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SB No.	Date	Service Bulletin Title
49-11	<b>Feb13</b>	DEF Gauge Reading Incorrectly
49-12	May12	DEF and Coolant Line and Fitting Leaks

## Group 54, Electrical, Instruments, and Controls

SB No.	Date	Service Bulletin Title
54-1	Oct92	Turn Signal and Brake Override Circuit
54-2	Jul93	Electric Speedometer and Tachometer Retrofit
54-3	Mar95	Ametek Speedometer and Tachometer Calibration
54-4	Mar01	Sleeper Clock Replacement
54-5	Mar97	Torque Specifications for Frontwall Megafuse Nuts
54-6	Jun98	Gauge Connector Pin Adjustment
54-7	Nov98	Four-Way Emergency Flashers
54-8	Feb99	Accessory/Option Panel Fuse Replacement
54-9	Feb99	Starlight Sleeper Circuit Breakers
54-10	Mar99	Cab Ground Wire Modification
54-11	Jun99	Sleeper Cargo Door Light Switch
54-12	Jun99	Frontwall Electrical Connector Seals
54-13	Aug99	Amber Strobe Lamp
54-14	Oct99	Beacon and Cigar Light Breaker
54-15	Oct99	Ignition Fuse Replacement
54-16	Mar00	Battery Cable Routing
54-17	Mar00	Headlight Switch
54-18	May00	CB Radio Reception
54-19	May00	58/59 Rectangular Turn Signals and Headlights
54-20	May00	Teltec Outside Temperature Gauge
54-21	Mar01	AM Radio Interference
54-23	Mar02	Pyrometer Wiring Modification
54-24	Mar02	Fuel Sender Replacement
54-25	Apr02	Replacement of Hour Meter Oil Pressure Switch
54-26	Apr03	DataStar Dash Display Revision
54-27	May03	Glowing Dash Lights
54-28	Jul03	Mercury Switch Removal
54-29	Jan04	Fuel Level Sender
54-30	Aug08	Disconnecting Daytime Running Lights
54-31	Dec03	Wiring Repair Information
54-32	Mar04	Ammeter Gauge Needle Fluctuation
54-33	Apr04	9-Pin Diagnostic Connector Standard
54-35	Jul04	Reset Button for Clarion® Radios
54-36	Nov04	Use of Correct Tools for Western Star-Branded and Delco Radio Removal
54-37	Nov04	Required Maintenance for Western Star-Branded and Delco Cassette Players
54-38	Sep05	DataStar Odometer Upgrade
54-39	Oct12	RX Module Fault Codes — EPA07 and Earlier with MID 41

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SB No.	Date	Service Bulletin Title
54-40	May06	New-Style Power Line Carrier (PLC) Filter Retrofit
54-42	Aug08	Erroneous Fault Codes for DDEC V Engines
54-45	Dec09	Testing Absorbed Glass Mat (AGM) Batteries
54-46	Jul08	Protecting MEGA Fuses with Dielectric Enamel
54-47	Jul08	Tyco™ Extraction Tool Available
54-48	Jul10	Electrical Terminal Protection
54-49	Nov09	Charging AGM Batteries
54-50	Dec08	Parts, Service, and Troubleshooting for Sleeper Refrigerators
54-51	Sep10	EPA10 ECUs Reported as "MISSING" in ServiceLink
54-52	Jul11	Modification from PX Modules to Stand-Alone Gauges
54-53	Nov12	EPA10 Fuel Level Gauge
54-54	Apr12	DataStar Display Screen Shorter Than Expected Life Span
54-55	<b>Feb13</b>	Virtual Technician Retrofit

**Group 60, Cab**

SB No.	Date	Service Bulletin Title
60-2	May98	Heated Mirror Wiring
60-4	Jul06	Constellation Cab Sun Visor Nut-Plates
60-12	Nov04	Cab Door Frame Reinforcement
60-16	Mar11	SleeperCab to Day Cab Retrofit
60-17	Dec00	Starlight Sleeper - Separation of Bodysides and Door Outer Skin
60-18	Dec00	Starlight Sleeper Cosmetic Repairs
60-19	Aug05	Hood-Mounted Grille Attaching Hardware
60-21	Feb09	High-Roof Sleeper Headliner Supports
60-23	Jan11	Engine Cover Insulation Loosening
60-24	Dec10	Cab Front Crossmember Retrofit, Western Star 4900FA 109BBC Raised Cab

**Group 72, Doors**

SB No.	Date	Service Bulletin Title
72-4	Jul10	Door Window Opening Reinforcement
72-5	Mar10	Door-Cap Insert Installation
72-6	May06	Cab Door Rattle Repair

**Group 82, Windshield Wipers and Washers**

SB No.	Date	Service Bulletin Title
82-1	Feb98	Wiper Pivot Reinforcing Plates

**Group 83, Heater and Air Conditioner**

SB No.	Date	Service Bulletin Title
83-14	Oct02	A/C Refrigerant Sealer Usage
83-17	Jan04	Replacing Climate Control Refrigerant Compressors

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SB No.	Date	Service Bulletin Title
83-18	Feb05	Cab Heater Water Valve Relocation and Control Cable Replacement
83-19	Aug05	Use Only Approved Refrigerants
83-20	Oct06	A/C System Receiver-Drier Replacement Guidelines
83-22	Feb12	Radiator-Mounted Grille Bracket Modification for A/C Condenser Replacement
83-24	Feb12	Refrigerant Leaks Due to Improperly Tightened Fasteners

## Group 88, Hood, Grille, and Cab Fenders

SB No.	Date	Service Bulletin Title
88-3	Oct99	49EX Filler Panel Reinforcement
88-10	Jun05	Hood Fender Reinforcement
88-11	Jun09	Hood Durability Improvements

## Group 91, Seats and Restraint Systems

SB No.	Date	Service Bulletin Title
91-2	Sep04	Using Loctite in EzyRider Seat Air Spring Installation
91-3	Feb06	EzyRider Side Pods and Air-Control Valves

## Group 98, Paint

SB No.	Date	Service Bulletin Title
98-1	Jun10	Paint Finish Standards
98-2	Jan04	Paint Supplier Change

# Canceled Service Bulletins

## Canceled Service Bulletins Since January 2004

SB No.	Canceled Date	Service Bulletin Title	Vehicle Application	Reason Code (see list below)
01-1	Apr08	Cummins N14 Engine Mounts	All	B
01-2	Apr08	Engine Not Shutting Down	All	B
01-3	Apr08	Torque Team V-Belts CAT 3406E	All	B
01-4	Apr08	48FX Cummins ISM/M11 Dipstick Location	All	B
09-2	May08	Charge Air Cooler Hose Replacement	Constellation	B
15-2	May08	Delco Remy 31SI Alternator Replacement	All	B
20-17	Jul12	Coolant Level Sensor Testing and Surge Tank Filling	All	C
31-3	Aug08	Front Cab Crossmember Clamp	All	B
32-1	Aug08	Hendrickson RT2 Spring and Saddle Assemblies	All	B
32-5	Mar10	Replacing Alligator-Style Crossmembers	Constellation	B
32-6	Aug09	Rear Suspension Height-Control Valve Troubleshooting	All	A
32-10	Aug09	Barksdale Height-Control Valve Precautions	All	A
35-1	Aug08	Carrier-to-Housing Leaks, Dana® Spicer® D/R404 Series Axles	All	B



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SB No.	Canceled Date	Service Bulletin Title	Vehicle Application	Reason Code (see list below)
46-1	Jun08	CAT 3406E Power Steering Drive	All	B
46-2	Jun08	Power Steering Reservoir Relocation, Detroit Diesel Series 60	All	B
46-3	Jun08	Right-Hand Power Assist Cylinder Lines	All	B
46-4	Sep08	TAS 65/85 Pitman Arm Orientation	All	A
46-5	Jun08	49MX Right-Hand Power Assist Bracket	All	B
46-8	May05	New Power Steering System Troubleshooting Procedures	All	A
47-8	Jan10	Davco Fuel Pro 382 and Diesel Pro 232/233 Fuel/Water Separator Testing	All	A
54-22	May08	Cab Disconnect Switch Corrosion	All	B
54-34	Sep12	Using the Correct Port Cable for the Data Link Adapter	All	B
60-1	Oct08	Economy Sleeper Mattress	All	B
60-3	Oct08	Emergency Exit Modification on the Star Light Sleeper	All	B
60-5	Oct08	Roof Bow Reinforcement with Roof-Mounted A/C	All	B
60-6	Oct08	Trailer Plug Connection	All	B
60-7	Oct08	Frontwall Reinforcement	All	B
60-8	Oct08	A-Pillar Reinforcement	All	B
60-9	May08	Composite Sleeper Mattress Support	All	B
60-10	Oct08	Sleeper Lateral Restraint Rods	All	B
60-11	Oct08	Composite Sleeper Cargo Door Cracks	All	B
60-13	May08	Steel Sleeper Repair	All	B
60-14	May08	Mirror Arm Modification	All	B
60-15	May08	Composite Sleeper Shocks	All	B
60-20	Feb09	Troubleshooting the Cab Height-Control Valves	All	A
60-22	May08	Cab and Sleeper Water Leaks	Constellation	A
72-1	Jun08	Window Glass Channel Modification	All	B
72-2	Jun08	Upper Door Run Channel Seal and Adjustment Guide	All	B
72-3	Jun08	Mirror Arm Reinforcement	Constellation	B
82-2	Jun08	Windshield Wiper Motor Harness Wire Tie-Straps	All	B
83-1	Mar08	CAT 3176, C10 and C12 Compressor Brackets	All	B
83-2	Mar08	Revised CTC Board for Heater/AC Systems	Constellation	B
83-3	Mar08	Heavy-Duty AC Condenser Mounting Bracket	All	B
83-4	Mar08	N14 A/C Brackets	Constellation	B
83-5	Mar08	Red Dot Air Switches	All	B
83-6	Mar08	Heater Intake Gasket	All	B
83-7	Mar08	CTC Rapid Cycling	All	B
83-9	Mar08	Red Dot Expansion Valve	All	B
83-10	Mar08	Red Dot Rotary Temperature Control and Control Cable	All	B
83-11	Mar08	Double Bunk Upper A/C Ducting	All	B
83-12	Mar08	Red Dot Automatic Temperature Control ECU	All	B
83-13	Mar08	Red Dot Water Valve and Control Cable	Constellation	B



# Validity List

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SB No.	Canceled Date	Service Bulletin Title	Vehicle Application	Reason Code (see list below)
83-15	Mar08	Sleeper HVAC Continues to Run When Ignition is Off	Constellation	B
83-21	Aug11	New A/C Condenser	Constellation	B
83-23	Jun12	A/C Condenser Shortage	Constellation	B
88-1	Oct08	Hood/Fender Splash Shield Modification	All	B
88-2	Oct08	49FX One-Piece Hood Air Cleaner Panels	All	B
88-4	Oct08	49FX Hood Latch Repair	Constellation	B
88-5	Oct08	49SX Hood and Fender Joint Splash Guard Installation	All	B
88-6	Oct08	49SX High Visibility Hood Mudflaps	All	B
88-7	Oct08	49SX High Visibility Heavy-Duty Hood Fender Cracks on Vehicles with 1350 Radiators	All	B
88-8	Oct08	49SX High Visibility Heavy-Duty Hood Fender Cracks on Vehicles with 1200 Radiators	All	B
88-9	Oct08	49SX High Visibility Hood Fender Vibration	Constellation	B
91-1	Aug09	Seat Belt Retractor Adjustment	All	A
A = Added to appropriate manual(s). B = Information is obsolete. C = Parts not available/no longer needed.				