Freightliner S2 Chassis Maintenance Manual

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S2 CHASSIS

Maintenance Manual

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S2 CHASSIS MAINTENANCE MANUAL

Models: S2 S2C

STI-479-6 (9/13)

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Foreword

Performing scheduled maintenance operations is important in obtaining safe, reliable operation of your vehicle. A proper maintenance program will also help to minimize downtime and safeguard warranties.

IMPORTANT: The maintenance operations in this manual are **not all-inclusive**. Also refer to other component and body manufacturers' instructions for specific inspection and maintenance instructions.

Perform the pretrip inspection and daily/weekly/monthly maintenance as outlined in the *S2 Chassis Operator's Manual*. Perform the maintenance operations in this manual at scheduled intervals based on the distance the vehicle has traveled or hours of operation. Your Freightliner dealership has qualified technicians and equipment to perform this maintenance.

IMPORTANT: Descriptions and specifications in this manual were in effect at the time of printing. Freightliner Custom Chassis Corporation (FCCC) reserves the right to discontinue models and to change specifications or design at any time without notice and without incurring obligation. Descriptions and specifications contained in this publication provide no warranty, expressed or implied, and are subject to revision and editions without notice.

Refer to **www.Daimler-TrucksNorthAmerica.com** and **www.FreightlinerChassis.com** for more information, or contact Daimler Trucks North America LLC at the address below.

Environmental Concerns and Recommendations

Whenever you see instructions in this manual to discard materials, you should attempt to reclaim and recycle them. To preserve our environment, follow appropriate environmental rules and regulations when disposing of materials.

NOTICE: Parts Replacement Considerations

Do not replace suspension, axle, or steering parts (such as springs, wheels, hubs, and steering gears) with used parts. Used parts may have been subjected to collisions or improper use and have undetected structural damage.

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Daimler Trucks North America LLC Service Systems and Documentation (CVI-SSD) P.O. Box 3849 Portland, Oregon 97208-3849

Descriptions of Service Publications

Daimler Trucks North America LLC distributes the following major service publications in paper and electronic (via ServicePro[®]) formats.

Workshop/Service Manual	Workshop/service manuals contain service and repair information for all vehicle systems and components, except for major components such as engines, trans- missions, and rear axles. Each workshop/service manual section is divided into subjects that can include general information, principles of operation, removal, disassembly, assembly, installation, and specifications.
Maintenance Manual	Maintenance manuals contain routine maintenance procedures and intervals for vehicle components and systems. They have information such as lubrication procedures and tables, fluid replacement procedures, fluid capacities, specifications, and procedures for adjustments and for checking the tightness of fasteners. Maintenance manuals do not contain detailed repair or service information.
Driver's/Operator's Manual	Driver's/operator's manuals contain information needed to enhance the driver's understanding of how to operate and care for the vehicle and its components. Each manual contains a chapter that covers pre-trip and post-trip inspections, and daily, weekly, and monthly maintenance of vehicle components. Driver's/operator's manuals do not contain detailed repair or service information.
Service Bulletins	Service bulletins provide the latest service tips, field repairs, product improve- ments, and related information. Some service bulletins are updates to informa- tion in the workshop/service manual. These bulletins take precedence over workshop/service manual information, until the latter is updated; at that time, the bulletin is usually canceled. The service bulletins manual is available only to dealers. When doing service work on a vehicle system or part, check for a valid service bulletin for the latest information on the subject.
	IMPORTANT: Before using a particular service bulletin, check the current service bulletin validity list to be sure the bulletin is valid.
Parts Technical Bulletins	Parts technical bulletins provide information on parts. These bulletins contain lists of parts and BOMs needed to do replacement and upgrade procedures.
Web-based repair service and	d parts documentation can be accessed using the following applications on the

Web-based repair, service, and parts documentation can be accessed using the following applications on the AccessFreightliner.com website.

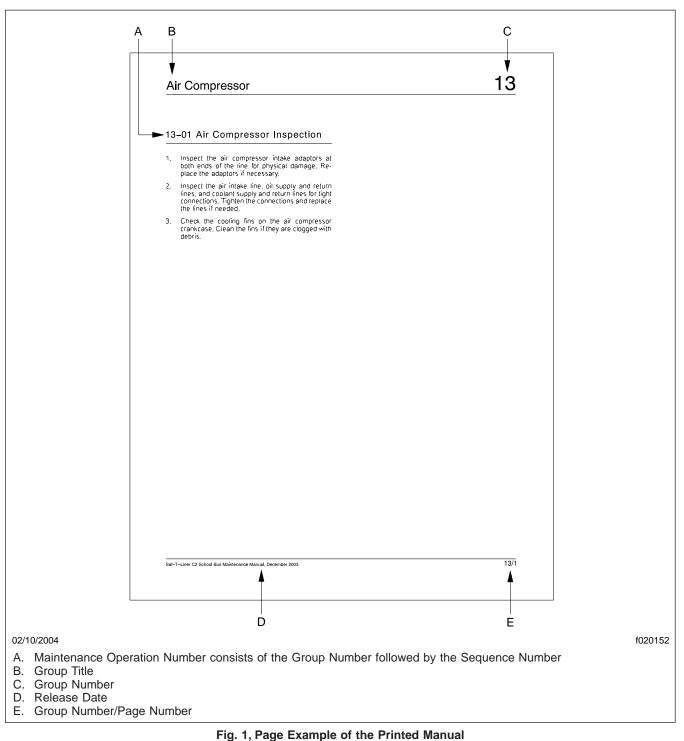
ServicePro	ServicePro [®] provides Web-based access to the most up-to-date versions of the publications listed above. In addition, the Service Solutions feature provides diagnostic assistance with Symptoms Search, by connecting to a large knowledge base gathered from technicians and service personnel. Search results for both documents and service solutions can be narrowed by initially entering vehicle identification data.
PartsPro	PartsPro [®] is an electronic parts catalog system, showing the specified vehicle's build record.
EZWiring	EZWiring [™] makes Freightliner Custom Chassis Corporation, Freightliner, Ster- ling, Western Star, and Thomas Built Buses products' wiring drawings and float- ing pin lists available online for viewing and printing. EZWiring can also be ac- cessed from within PartsPro.

Descriptions of Service Publications

Warranty-related service information available on the AccessFreightliner.com website includes the following documentation.

Recall Campaigns	Recall campaigns cover situations that involve service work or replacement of parts in connection with a recall notice. These campaigns pertain to matters of vehicle safety. All recall campaigns are distributed to dealers; customers receive notices that apply to their vehicles.
Field Service Campaigns	Field service campaigns are concerned with non-safety-related service work or replacement of parts. All field service campaigns are distributed to dealers; customers receive notices that apply to their vehicles.

Page Description



For a page example of the printed manual, see Fig. 1.

Maintenance Manual Contents

Group No. **Group Title** 00 General Information 01 Engine 15 Alternators and Starters 26 Transmission 31 Frame and Frame Components 49 Exhaust 54 Electrical. Instruments. and Controls 83 Heater and Air Conditioner 88 Hood, Grille, and Cab Fenders

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Determining Scheduled Maintenance Intervals: 00–01

Determining Scheduled Maintenance Intervals

Performing regular maintenance will help ensure that your vehicle delivers safe, reliable service, and optimum performance. A proper maintenance program will also help to minimize downtime and safeguard warranties.

To determine the correct maintenance intervals for your vehicle, you must first determine the type of service or conditions the vehicle will be operating in. Most vehicles operate in conditions that fall within one of two schedules. Before placing your vehicle in service, determine whether schedule I or II applies to your vehicle.

Schedules I and II

Schedule I (urban transport) applies to vehicles that travel up to 20,000 miles (32 000 kilometers) annually. Examples of Schedule I usage are:

- frequent short-distance travel
- operation primarily in cities and densely populated areas
- local transport with infrequent freeway travel
- high percentage of stop-and-go travel

Schedule II (rural transport) applies to vehicles that travel over 20,000 miles (32 000 kilometers) annually. An example of Schedule II usage is:

• less frequent stop-and-go travel

Maintenance Schedules

After determining the schedule appropriate to your vehicle, refer to the **Maintenance Schedules** to determine when to perform the Initial Maintenance (IM) and the frequency of performing subsequent maintenance intervals for each schedule.

Maintenance Intervals

Refer to the **Maintenance Interval Table** to determine which maintenance interval(s) should be performed when your vehicle reaches the mileage or months of operation listed in these subjects.

Before placing your new vehicle in service, determine the maintenance schedule (Schedule I or II) that applies to your intended use of the vehicle. Once a schedule is choosen, continue using it for the life of the vehicle.

Maintenance Operations

Groups 01 through 83 in this manual have an index at the beginning of each Group. The index lists the Title of Maintenance Operations and the Maintenance Operation (MOP) Numbers for that Group. Follow the instructions under the MOP number to perform the required maintenance.

In addition to the maintenance operations required for the maintenance interval, perform all of the preand post-trip inspections and maintenance procedures in **Chapter 12** and **Chapter 13**, "Pre- and Post-Trip Checklists" and "Pre- and Post-Trip Inspections and Maintenance," in the *S2 Chassis Operator's Manual*.

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00

General Information

Maintenance Schedules: 00–02

Vehicle Maintenance Schedule Table

Vehicle Maintenance Schedule Table								
Description	Maintenance Operation Set	Maintenance Intervals						
Description		Frequency	Miles	km	Months			
Schedule I (Urban Transport) vehicles that annually travel up to 20,000 miles (32 000 km)	Initial Maintenance (IM)	first	2500	4000	3			
	Maintenance 1 (M1)	every	2500	4000	3			
	Maintenance 2 (M2)	every	10,000	16 000	12			
	Maintenance 3 (M3)	every	30,000	48 000	36			
Schedule II (Rural Transport) vehicles that annually travel over 20,000 miles (32 000 km)	Initial Maintenance (IM)	first	5000	8000	3			
	Maintenance 1 (M1)	every	5000	8000	3			
	Maintenance 2 (M2)	every	20,000	32 000	12			
	Maintenance 3 (M3)	every	60,000	96 500	36			