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CASCADIA®



Maintenance Manual

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CASCADIA MAINTENANCE MANUAL

Models: CA113DC CA113SLP CA125DC CA125SLP

STI-478-6 (6/14)

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Foreword

Scheduled maintenance provides a key element for the safe operation of your vehicle. A proper maintenance program also helps to minimize downtime and to safeguard warranties. This maintenance manual provides information necessary for years of safe, reliable, and cost-efficient vehicle operation.

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 operations in this maintenance manual at scheduled intervals. Perform the pretrip inspection and daily/weekly/monthly maintenance, as outlined in the vehicle driver's manual. Major components, such as engines, transmissions, and rear axles, are covered in their own maintenance and operation manuals, that are provided with the vehicle. Perform any maintenance operations listed at the intervals scheduled in those manuals. Your Freightliner Dealership has the qualified technicians and equipment to perform this maintenance for you. They can also set up a scheduled maintenance program tailored specifically to your needs. Optionally, they can assist you in learning how to perform these maintenance procedures.

IMPORTANT: Descriptions and specifications in this manual were in effect at the time of printing. Freightliner Trucks 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.FreightlinerTrucks.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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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, transmissions, 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, specifica- tions, and procedures for adjustments and for checking the tightness of fasten- ers. Maintenance manuals do not contain detailed repair or service information. |
| Troubleshooting Manual | Troubleshooting manuals contain diagnostic procedures for determining causes of problems in vehicle components and systems. Information on multiplexing diagnosis is included. These manuals are organized by functional systems, such as cab, chassis, and powertrain. Troubleshooting manuals do not contain 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 AccessFreightliner.com website | d parts documentation can be accessed using the following applications on the e. |
| 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 di- agnostic 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.

Descriptions of Service Publications

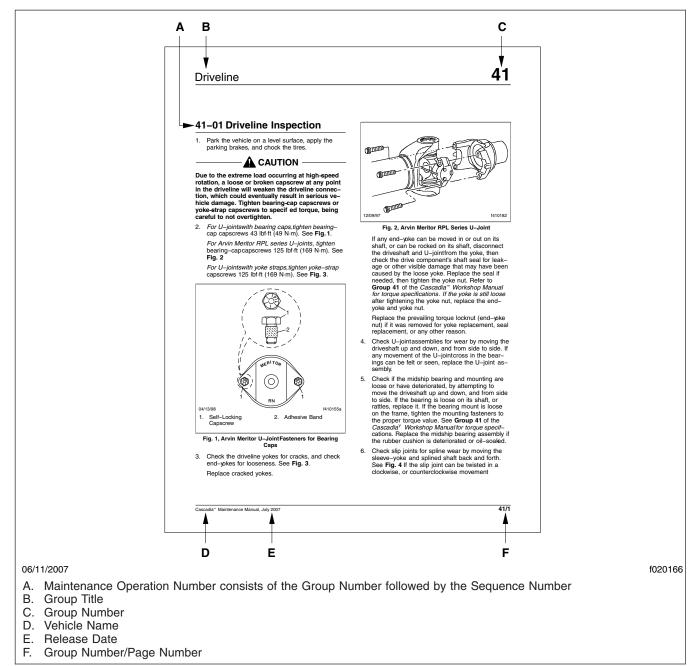
EZWiring EZWiring[™] makes Freightliner, Sterling, Western Star, Thomas Built Buses, and Freightliner Custom Chassis Corporation products' wiring drawings and floating pin lists available online for viewing and printing. EZWiring can also be accessed from within PartsPro.

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 |

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 an example of a Maintenance Manual page, see Fig. 1.

Fig. 1, Example of a Maintenance Manual Page

Introduction

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Determining Scheduled Maintenance Intervals: 00–01

Determining Scheduled Maintenance Intervals

Performing regular maintenance on your Freightliner vehicle will help ensure that your vehicle delivers safe reliable service and optimum performance for years to come. Failure to follow a regular maintenance program can result in inefficient operation and unscheduled down time.

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. Generally, over-the-road vehicles operate under conditions that fall within one of the two types of service described. Before placing your new vehicle in service, determine the type of service (Service Schedule I or II) that applies to the intended use of the vehicle. After determining the vehicle's type of service, refer to the service schedule table or the vehicle maintenance schedule table, to determine how often maintenance should be performed.

When the vehicle reaches the distance given for a maintenance interval, see the Maintenance Interval Operation Table for a list of the maintenance operations to be performed at that maintenance interval. Use the maintenance operation reference numbers to find detailed instructions in the manual on each operation.

Types of Service

Service Schedule I (short-haul transport) applies to vehicles that annually travel less than 60,000 miles (100 000 kilometers) and operate under normal conditions. Examples of Schedule I usage are: operation primarily in cities and densely populated areas; local transport with infrequent freeway travel; or high percentage of stop-and-go travel.

Service Schedule II (long-haul transport) is for vehicles that annually travel *more than* 60,000 miles (100 000 kilometers) with minimal city or stop-and-go operation. Examples of Schedule II usage are: regional delivery that is mostly freeway miles; interstate transport; or any road operation with high annual mileage.

NOTE: Maintenance instructions in this manual are based on average vehicle use and normal

operating conditions. Unusual vehicle operating conditions may require service at more frequent intervals.

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General Information

Service Schedule Table: 00–02

| Samiaa Sahadula | Maintenance Interval Operation | Maintenance Interval | | |
|--|--------------------------------|----------------------|---------|---------|
| Service Schedule | | Frequency | Miles | km |
| Schedule I (Short-Haul Transport) vehicles that annually travel less than 60,000 miles (100 000 km) | Initial Maintenance (IM) | first | 10,000 | 16 000 |
| | Maintenance 1 (M1) | every | 10,000 | 16 000 |
| | Maintenance 2 (M2) | every | 50,000 | 80 000 |
| | Maintenance 3 (M3) | every | 150,000 | 240 000 |
| Schedule II (Long-Haul Transport) vehicles that annually travel over 60,000 miles (100 000 km) | Initial Maintenance (IM) | first | 25,000 | 40 000 |
| | Maintenance 1 (M1) | every | 25,000 | 40 000 |
| | Maintenance 2 (M2) | every | 100,000 | 161 000 |
| | Maintenance 3 (M3) | every | 300,000 | 483 000 |

Table 1, Service Schedule