

108SD and 114SD



Maintenance Manual



108SD AND 114SD MAINTENANCE MANUAL

Models: 108SD

114SD

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 operations in this maintenance manual at scheduled intervals. Perform the pretrip and post-trip inspections, 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.

© 2011-2014 Daimler Trucks North America LLC

All rights reserved. No part of this publication, in whole or in part, may be translated, reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Daimler Trucks North America LLC. Daimler Trucks North America LLC is a Daimler company.

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, 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, 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 pretrip 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 improvements, and related information. Some service bulletins are updates to information 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 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, 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.

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; cus-

tomers receive notices that apply to their vehicles.

Page Description

For an example of a 108SD and 114SD Maintenance Manual page, see Fig. 1.

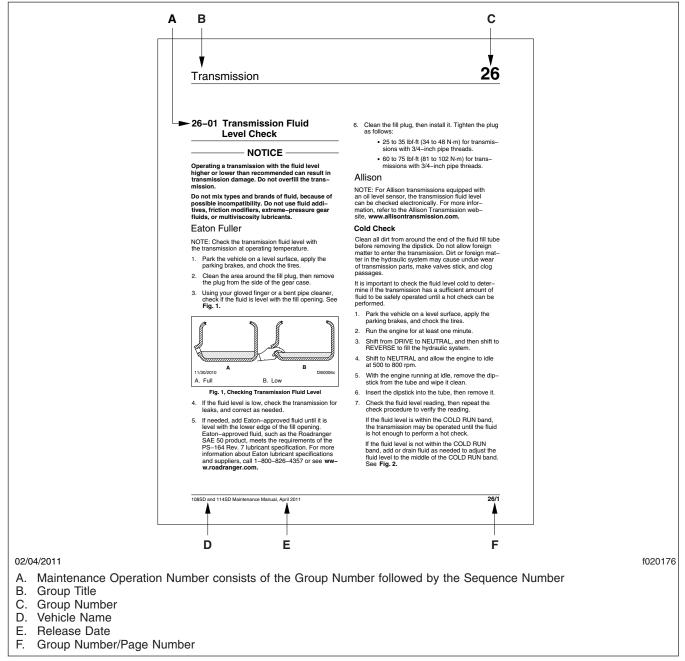


Fig. 1, Example of a 108SD and 114SD Maintenance Manual Page

Maintenance Manual Contents

Group No. Group Title
00 General Information
01
13 Air Compresso
15 Alternators and Starters
20 Engine Cooling/Radiato
25 Clutch
26
32 Suspension
33 Front Axle
35 Rear Axle
40 Wheels and Tires
41 Driveling 42 Brake:
46 Steering
47 Fue
49 Exhaus
60
72 Doors 83 Heater and Air Conditione
88 Hood, Grille, and Cab Fenders

General Information

Index, Alphabetical

Title of Maintenance Operation (MOP)	MOP Number
00-01 Determining Scheduled Maintenance Intervals	00–01
00-02 Initial Maintenance (IM) Operations	
00-03 M1 Maintenance Interval Operations	00–03
00-04 M2 Maintenance Interval Operations	00–04
00-05 M3 Maintenance Interval Operations	
00-06 M4 Maintenance Interval Operations	
00-07 M5 Maintenance Interval Operations	00–07
00-08 Maintenance Sequence and Log	
00–09 Noise Emission Controls	
00–10 Verification of Inspections Log	
00–11 Metric/U.S. Customary Conversion Tables	00–11
00-12 Torque Specifications	00–12

00-01 Determining Scheduled Maintenance Intervals

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 which schedule applies to your vehicle.

Schedules

Schedule I (severe service) applies to vehicles that travel up to 6000 miles (10 000 kilometers) annually or that operate under severe conditions. Examples of Schedule I usage are:

- operation on extremely poor roads or where there is heavy dust accumulation
- constant exposure to extreme hot, cold, salt air, or other extreme climates
- frequent short-distance travel
- construction-site operation
- city operation such as fire truck and garbage truck.

· farm operation

Schedule II (short-haul transport) applies to vehicles that travel 6000 miles (10 000 kilometers) or more annually and operate under normal conditions. Examples of Schedule II usage are:

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

Maintenance Intervals

After determining the schedule appropriate to your vehicle, refer to **Table 1** to determine when to perform the Initial Maintenance (IM) and the frequency of performing subsequent maintenance intervals for each schedule.

Maintenance Operations

This manual has an index at the beginning of each Group that lists the title and number of each maintenance operation (MOP) 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 daily, weekly, and monthly maintenance operations listed in Chapter 21, "Pretrip and Post-Trip Inspections and Maintenance", of the 108SD and 114SD Driver's Manual.

Maintenance Schedules							
Schedule	Maintenance Intervals						
	Maintenance Interval	Frequency	Mileage	km	Hours		
Schedule I* (severe service) for vehicles that travel up to 6000 miles (10 000 km) annually	Initial Maintenance (IM)	first	1000	1600	100		
	Maintenance 1 (M1)	every	1000	1600	100		
	Maintenance 2 (M2)	every	4000	6400	400		
	Maintenance 3 (M3)	every	8000	12 800	800		
	Maintenance 4 (M4)	every	16,000	25 600	1600		
	Maintenance 5 (M5)	every	32,000	51 200	3200		

Full download: http://manualplace.com/download/freightliner-108sd-and-114sd-maintenance-manual-20f17202/

00

General Information

00-01 Determining Scheduled Maintenance Intervals

Maintenance Schedules							
Schedule	Maintenance Intervals						
	Maintenance Interval	Frequency	Mileage	km	Hours		
Schedule II (short-haul transport) for vehicles that travel 6000 miles (10 000 km) or more annually	Initial Maintenance (IM)	first	8000	12 000	_		
	Maintenance 1 (M1)	every	8000	12 000			
	Maintenance 2 (M2)	every	16,000	24 000			
	Maintenance 3 (M3)	every	32,000	48 000			
	Maintenance 4 (M4)	every	64,000	96 000			
	Maintenance 5 (M5)	every	128,000	192 000			

^{*} For Schedule I vehicles equipped with an hourmeter, use maintenance intervals based on hours of operation rather than mileage.

Table 1, Maintenance Schedules