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L-LINE AND A-LINE MAINTENANCE MANUAL

Models: L7500

L7501

L8500

L8511

L8513

L9500

L9501

L9511

L9513

L9522

A9500

A9522

STI-383-1 (10/08P)

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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 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 Sterling 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. Daimler Trucks North America LLC 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.SterlingTrucks.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, 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 AccessSterling.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 Sterling, Freightliner, Freightliner Custom Chassis Corporation, Thomas Built Buses, and Western Star 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 AccessSterling.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 an L-Line and A-Line Maintenance Manual page, see Fig. 1.

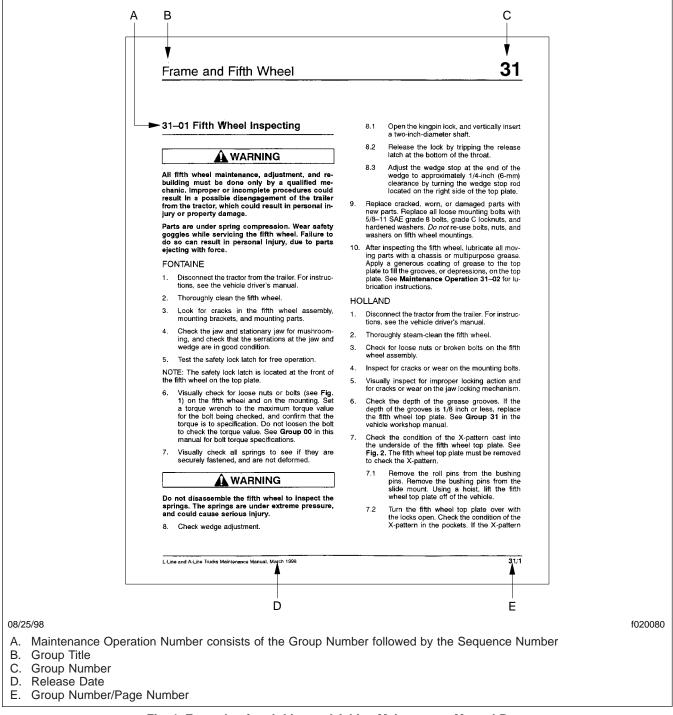


Fig. 1, Example of an L-Line and A-Line Maintenance Manual Page

Maintenance Manual Contents

Group No.	Group Title
00	General Information
01	Engine
09	Air Intake
13	
15	. Alternators and Starters
20	Engine Cooling/Radiator
25	Clutch
26	Transmission
31	. Frame and Fifth Wheel
32	
	Front Axle
	Rear Axle
	Wheels and Tires
41	
42	Brakes
46	Steering
47	Fuel
49	Exhaust
54 Electrical,	Instruments, and Controls
72	Doors
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88 Hood	

General Information

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M2 Maintenance Interval Operations Table	
M3 Maintenance Interval Operations Table	00–09
M4 Maintenance Interval Operations Table	00–10
Maintenance Operation Sets Table	
Maintenance Service Table	
Metric/U.S. Customary Conversion Tables	
Noise Emission Controls Maintenance	
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Verification of Inspections Log	00–12

General Information 00

Determining Scheduled Maintenance Intervals: 00-01

Determining Scheduled Maintenance Intervals

Performing regular maintenance on your Sterling vehicle will help ensure that your Sterling 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, most vehicles operate under conditions that fall within one of the three types of service described. Before placing your new vehicle in service, determine the type of service (Service Schedule I, II, or III) 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 Operations 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 (severe service) applies to vehicles that annually travel less than 6000 miles (10 000 kilometers) *or* that operate under severe conditions. Examples of Schedule I (severe service) usage include: 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 (fire truck); or farm operation.

Service Schedule II (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 II (short-haul transport) usage are: operation primarily in cities and densely populated areas; local transport with infrequent freeway travel; or high percentage of stopand-go travel.

Service Schedule III (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 III (long-haul transport) 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.

Maintenance Service Table: 00-02

Maintenance Service Table							
Service Schedule	Maintenance Interval	Maintenance Intervals					
	Operation	Frequency	Miles	km	Hours		
Schedule I* — (severe service) vehicles that annually travel up to 6000 miles (10 000 km)	Initial Maintenance (IM)	first	1000	1600	100		
	Maintenance 1 (M1)	every	1000	1600	100		
	Maintenance 2 (M2)	every	5000	8000	500		
	Maintenance 3 (M3)	every	10,000	16 000	1000		
	Maintenance 4 (M4)	every	20,000	32 000	2000		
Schedule II [†] — (short-haul transport) vehicles that annually travel up to 60,000 miles (100 000 km)	Initial Maintenance (IM)	first	9500	15 000			
	Maintenance 1 (M1)	every	9500	15 000			
	Maintenance 2 (M2)	every	37,500	60 000	_		
	Maintenance 3 (M3)	every	75,000	120 000			
	Maintenance 4 (M4)	every	150,000	240 000			
Schedule III [†] — (long-haul transport) vehicles that annually travel over 60,000 miles (100 000 km)	Initial Maintenance (IM)	first	12,500	20 000			
	Maintenance 1 (M1)	every	12,500	20 000			
	Maintenance 2 (M2)	every	50,000	80 000	_		
	Maintenance 3 (M3)	every	100,000	160 000			
	Maintenance 4 (M4)	every	300,000	480 000			

^{*} For Schedule I (severe service) vehicles equipped with an hourmeter, use maintenance intervals based on hours of operation rather than distance traveled.

Table 1, Maintenance Service Table

[†] Use Schedule I (severe service) maintenance intervals for vehicles that operate under severe conditions, such as extremely poor roads, heavy dust accumulation, extreme climate, frequent short distance travel, construction-site operation, city operation (garbage truck), or farm operation.

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General Information

00

Vehicle Maintenance Schedule Tables: 00-03

Maint. Required Maintenance Operation Interval	Required Maintenance Operation		Service I			
	Service Date	Miles	km	Hours		
1st	Initial Maintenance (IM) and M1		1000	1600	100	
2nd	M1		2000	3200	200	
3rd	M1		3000	4800	300	
4th	M1		4000	6400	400	
5th	M1 and M2		5000	8000	500	
6th	M1		6000	9600	600	
7th	M1		7000	11 200	700	
8th	M1		8000	12 800	800	
9th	M1		9000	14 400	900	
10th	M1, M2 and M3		10,000	16 000	1000	
11th	M1		11,000	17 600	1100	
12th	M1		12,000	19 200	1200	
13th	M1		13,000	20 800	1300	
14th	M1		14,000	22 400	1400	
15th	M1 and M2		15,000	24 000	1500	
16th	M1		16,000	25 600	1600	
17th	M1		17,000	27 200	1700	
18th	M1		18,000	28 800	1800	
19th	M1		19,000	30 400	1900	
20th	M1, M2, M3 and M4		20,000	32 000	2000	
21st	M1		21,000	33 600	2000	
22nd	M1		22,000	35 200	2200	
23rd	M1		23,000	36 800	2300	
24th	M1		24,000	38 400	2400	
25th	M1 and M2		25,000	40 000	2500	
26th	M1		26,000	41 600	2600	
27th	M1		27,000	43 200	2700	
28th	M1		28,000	44 800	2800	
29th	M1		29,000	46 400	2900	
30th	M1, M2 and M3		30,000	48 000	3000	
31st	M1		31,000	49 600	3100	
32nd	M1		32,000	51 200	3200	
33rd	M1		33,000	52 800	3300	
34th	M1		34,000	54 400	3400	