Freightliner Century Class Trucks Maintenance Manual

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CENTURY CLASS TRUCKS MAINTENANCE MANUAL

Models: Argosy® COE

C112 Conventional C120 Conventional

Coronado®

STI-341-1 (8/11)

Published by Daimler Trucks North America LLC 4747 N. Channel Ave. Portland, OR 97217 Printed in U.S.A.

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 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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Daimler Trucks North America LLC Service Systems and Documentation (CVI-SSD) P.O. Box 3849 Portland, OR 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 Century Class Trucks Maintenance Manual, see Fig. 1.

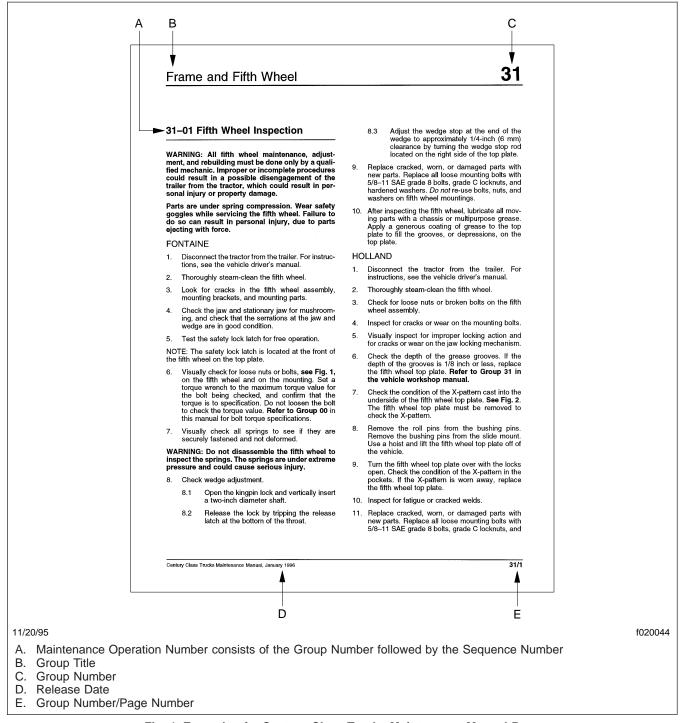


Fig. 1, Example of a Century Class Trucks Maintenance Manual Page

Maintenance Manual Contents

Group No. Group Title	Group
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General Information

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M2 Maintenance Interval Operations	
M3 Maintenance Interval Operations	
Maintenance Operation Sets Table	
Metric/U.S. Customary Conversion Tables	
Noise Emission Controls Maintenance	
Service Schedule Table	
Torque Specifications Tables	
Vehicle Maintenance Schedule Tables	
Verification of Inspections Log	

Determining Scheduled Maintenance Intervals: 00-01

Determining Scheduled Maintenance Intervals

Performing regular maintenance on your Freightliner will help ensure that your Freightliner 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 four types of service described. Before placing your new vehicle in service, determine the type of service (Service Schedule I, II, III, or IV) 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 (severe service) applies to vehicles that annually travel less than 6000 miles (10 000 kilometers) *or* that operate under severe conditions. Examples of severe service, Schedule I 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 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 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 usage are: regional delivery that is mostly freeway miles; interstate transport; or any road operation with high annual mileage.

Service Schedule IV (long haul transport for Optimized Vehicle Configuration) is for vehicles that annually travel **over** 60,000 miles (100 000 km) **and** meet the following qualifications:

- Meritor 15-1/2 inch dampened/ceramic Lite Pedal LTD clutch with sealed release bearing.
- Synthetic transmission fluid used in transmission.
- Meritor FF-961 or FF-981 front axle (12,000 lb. capacity) with synthetic lubricant.
- Front suspension with maintenance-free rubber bushings for 12,000 lb. capacity suspension.
- Meritor RPL series, or Spicer SPL series driveline U-joints.
- · Synthetic lubricant used in rear axle.
- Equipped with any Freightliner AirLiner suspension.
- Equipped with Meritor Q-Plus extended-lube cam brakes and automatic slack adjusters, front and rear.
- Standard brake system package including Bendix AD-9 air dryer—mounted on the right-hand frame rail, located directly behind the front bumper—with heater, and a Bendix air compressor.
- TRW TAS-65 power steering.

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.

Service Schedule Table: 00-02

Samiles Sahadula	Maintenance Interval Operation	Maintenance Interval			
Service Schedule	Maintenance Interval Operation	Frequency	Miles	km	Hours
Cabadula I*	Initial Maintenance (IM)	first	1000	1600	50
Schedule I* (Severe Service) vehicles that annually travel less than 6000 miles (10 000 km)	Maintenance 1 (M1)	every	1000	1600	50
	Maintenance 2 (M2)	every	5000	8000	500
	Maintenance 3 (M3)	every	15,000	24 000	1500
Schedule II [†] (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	
0.1.1.1.111+	Initial Maintenance (IM)	first	25,000	40 000	
Schedule III[†] (Long-Haul Transport)	Maintenance 1 (M1)	every	25,000	40 000	
vehicles that annually travel over	Maintenance 2 (M2)	every	100,000	161 000	_
60,000 miles (100 000 km)	Maintenance 3 (M3)	every	300,000	483 000	
Schedule IV [†]	Initial Maintenance (IM)	first	25,000	40 000	
(Long-Haul Transport for Optimized Vehicle Configuration) vehicles that annually travel over	Maintenance 1 (M1)	every	25,000	40 000	
	Maintenance 2 (M2)	every	100,000	161 000	_
60,000 miles (100 000 km)	Maintenance 3 (M3)	every	300,000	483 000	

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

Table 1, Service Schedule

[†] 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.

General Information

00

Vehicle Maintenance Schedule Tables: 00-03

Maint. No.	Maintenance	Service Date	Se	ervice Schedul	e I	Service Schedule II	
	Interval		Miles	km	Hours	Miles	km
1st	IM and M1		1000	1600	100	10,000	16 000
2nd	M1		2000	3200	200	20,000	32 000
3rd	M1		3000	4800	300	30,000	48 000
4th	M1		4000	6400	400	40,000	64 000
5th	M1 and M2		5000	8000	500	50,000	80 000
6th	M1		6000	9600	600	60,000	96 000
7th	M1		7000	11 200	700	70,000	112 000
8th	M1		8000	12 800	800	80,000	128 000
9th	M1		9000	14 400	900	90,000	144 000
10th	M1 and M2		10,000	16 000	1000	100,000	160 000
11th	M1		11,000	17 600	1100	110,000	176 000
12th	M1		12,000	19 200	1200	120,000	192 000
13th	M1		13,000	20 800	1300	130,000	208 000
14th	M1		14,000	22 400	1400	140,000	224 000
15th	M1, M2, and M3		15,000	24 000	1500	150,000	240 000
16th	M1		16,000	25 600	1600	160,000	256 000
17th	M1		17,000	27 200	1700	170,000	272 000
18th	M1		18,000	28 800	1800	180,000	288 000
19th	M1		19,000	30 400	1900	190,000	304 000
20th	M1 and M2		20,000	32 000	2000	200,000	320 000
21st	M1		21,000	33 600	2100	210,000	336 000
22nd	M1		22,000	35 200	2200	220,000	352 000
23rd	M1		23,000	36 800	2300	230,000	368 000
24th	M1		24,000	38 400	2400	240,000	384 000
25th	M1 and M2		25,000	40 000	2500	250,000	400 000
26th	M1		26,000	41 600	2600	260,000	416 000
27th	M1		27,000	43 200	2700	270,000	432 000
28th	M1		28,000	44 800	2800	280,000	448 000
29th	M1		29,000	46 400	2900	290,000	464 000
30th	M1, M2, and M3		30,000	48 000	3000	300,000	480 000

Table 2, 1st through 30th Maintenance for Service Schedules I and II