

CORONADO®



Maintenance Manual



CORONADO MAINTENANCE MANUAL

Models: Coronado 122

Coronado 122SD Coronado 132

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. A listing of many OEM websites of vehicle component or system providers can be found in the *Coronado® Workshop Manual*, **Section 00.02**.

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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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. For service and repair information of major components, refer to the OEM website. A listing of many OEM websites can be found in **Section 00.02** of the workshop/service manual. 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 Coronado Maintenance Manual page, see Fig. 1.

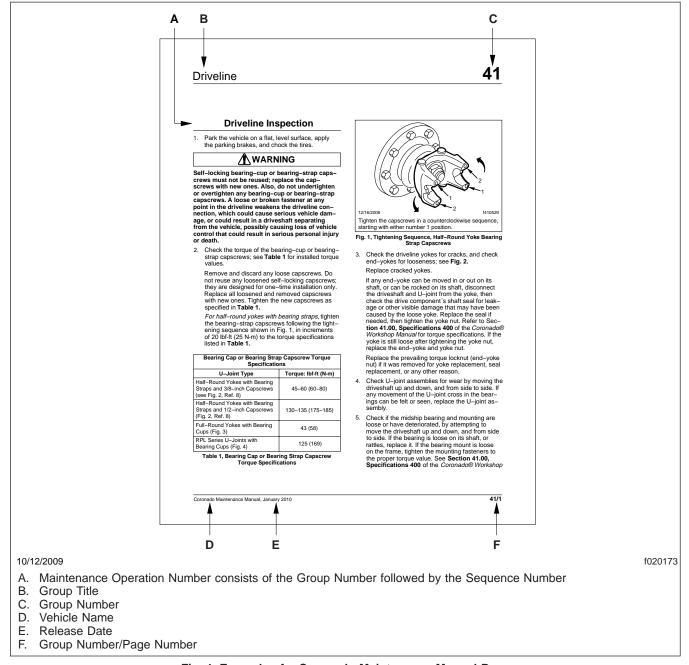


Fig. 1, Example of a Coronado Maintenance Manual Page

Maintenance Manual Contents

Group No.	Group Title
00	
01	Engine
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	Air Compressor
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General Information

00

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Title of Maintenance Operation (MOP)	MOP Number
Determining Scheduled Maintenance Intervals	
Initial Maintenance (IM) Operations	
M1 Maintenance Interval Operations	00–04
M2 Maintenance Interval Operations	
M3 Maintenance Interval Operations	
Metric/U.S. Customary Conversion Tables	
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Torque Specifications Tables	
Vehicle Maintenance Schedule Tables	
Verification of Inspections Log	80–00

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.

Determine the correct maintenance intervals and operations for your vehicle as follows.

- Using Table 1, 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 listed.
- Using Table 2, determine how often maintenance should be performed, based on the vehicle's service schedule.
- When the vehicle reaches the distance (or hours of operation) given for a maintenance interval, as shown in the appropriate table in Vehicle Maintenance Schedule Tables: 00-02, see the ap-

propriate Maintenance Interval Operation Table (listed below) for a list of the maintenance operations to be performed.

- Initial Maintenance (IM) Operations: 00-03
- M1 Maintenance Interval Operations: 00-04
- M2 Maintenance Interval Operations: 00-05
- M3 Maintenance Interval Operations: 00-06

Use the maintenance operation reference numbers in the Maintenance Interval Operation Tables to find detailed instructions in the manual on each operation.

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.

Types of Service					
Service Schedule	Service Conditions				
Schedule I * (Severe Service)	Vehicles that annually travel <i>less than</i> 6000 miles (10 000 kilometers) <i>or</i> 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);				
	Farm operation.				
Schedule II † (Short-Haul Transport)	Vehicles that annually travel <i>less than</i> 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;				
	High percentage of stop-and-go travel.				
Schedule III† (Long-Haul Transport)	Vehicles that annually travel <i>more than</i> 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;				
	Any road operation with high annual mileage.				

General Information

Determining Scheduled Maintenance Intervals: 00-01

Types of Service					
Service Schedule	Service Conditions				
Schedule IV [†] (Long-Haul Transport for Optimized Vehicle Configuration)	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 Dana 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 with heater, and a Bendix air compressor. 				
	TRW TAS65 power steering.				

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

Table 1, Types of Service

Service Schedule							
Service Schedule	Maintenance Interval Operation	Maintenance Interval					
		Frequency	Miles	km	Hours		
Schedule I (Severe Service)	Initial Maintenance (IM)	first	1000	1600	50		
	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)	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 III (Long-Haul Transport) and Schedule IV (Long-Haul Transport for Optimized Vehicle Configuration)	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 2, 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.