FREIGHTLINER

Run Smart™

HEAVY-DUTY TRUCKS MAINTENANCE MANUAL

Models: FLA COE
FLB COE
FLC 112 Conventional
FLD Conventional
FLL COE

STI-329-1 (10/09P)

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Foreword

When performed on a regular basis, lubricating the parts of your vehicle is the least costly way of obtaining safe and reliable vehicle operation. Added benefits and savings occur when you check that the engine, undercarriage, and noise emission control parts are in good working order during lubrication.

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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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

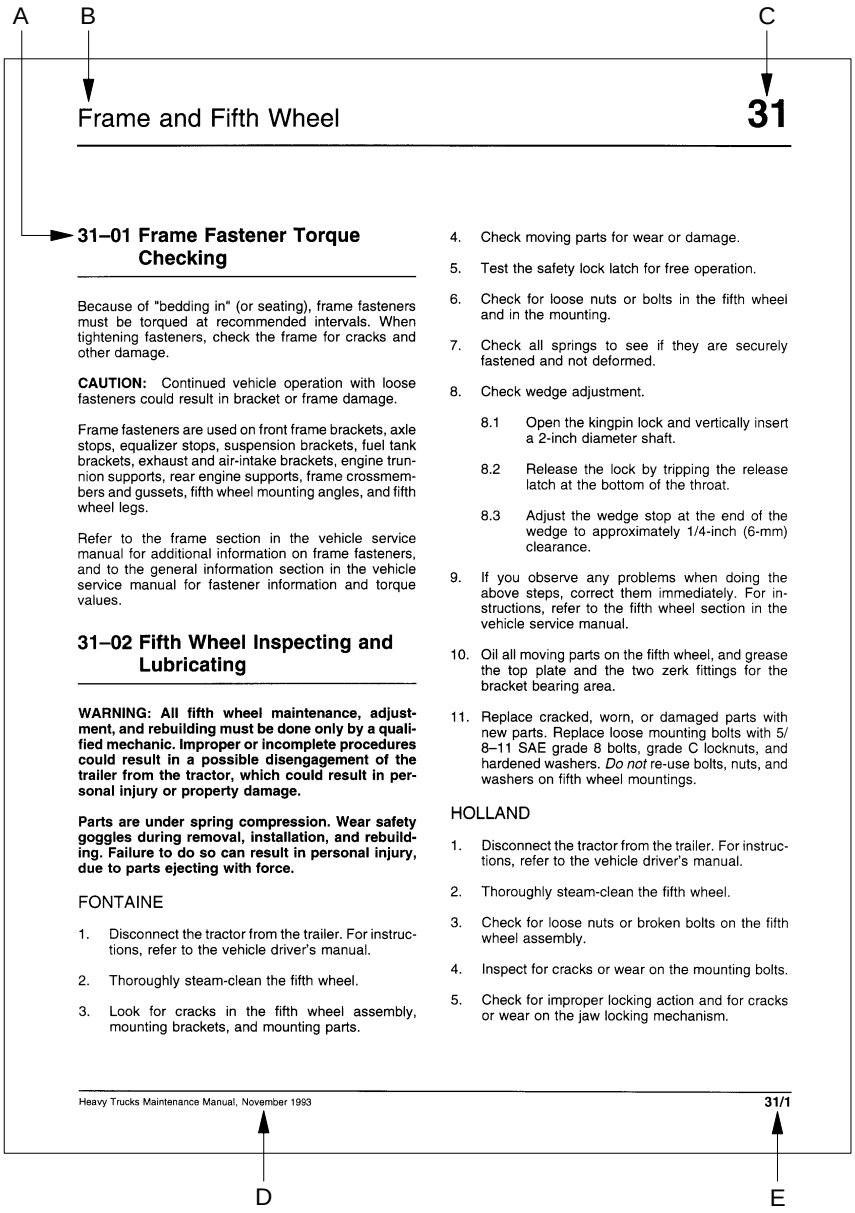
Warranty-related service information available on the AccessFreightliner.com website includes the following documentation.

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; customers receive notices that apply to their vehicles.

Page Description

For an example of a *Heavy-Duty Trucks Maintenance Manual* page, see **Fig. 1**.



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A. Maintenance Operation Number consists of Group Number followed by Sequence Number
B. Group Title
C. Group Number
D. Release Date
E. Group/Page Number

Fig. 1, Example of a Heavy-Duty Trucks Maintenance Manual Page

Maintenance Manual Contents

Index, Alphabetical

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 in which the vehicle will operate. 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 Maintenance Service Table or the Vehicle Maintenance Schedule Tables, to determine how often maintenance should be performed.

When the vehicle reaches the distance given for a maintenance interval, see the applicable Maintenance Interval Operations Table for a list of the maintenance operations to be performed at that maintenance interval. Use the maintenance operation 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.

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 Operation	Maintenance Intervals			
		Frequency	Miles	km	Hours
Schedule I* (Severe Service) vehicles that annually travel less than 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 less than 60,000 miles (100 000 km)	Initial Maintenance (IM)	first	9000 to 10,000	15 000	
	Maintenance 1 (M1)	every	9000 to 10,000	15 000	
	Maintenance 2 (M2)	every	37,000 to 38,000	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.

† 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.

Vehicle Maintenance Schedule Tables: 00–03

1st through 20th Maintenance for Service Schedule I Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
1st	Initial Maintenance (IM)/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 through 40th Maintenance for Service Schedule I Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
21st	M1		21,000	33 600	2100
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

Vehicle Maintenance Schedule Tables: 00–03

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
32nd	M1		32,000	51 200	3200
33rd	M1		33,000	52 800	3300
34th	M1		34,000	54 400	3400
35th	M1 and M2		35,000	56 000	3500
36th	M1		36,000	57 600	3600
37th	M1		37,000	59 200	3700
38th	M1		38,000	60 800	3800
39th	M1		39,000	62 400	3900
40th	M1, M2, M3, and M4		40,000	64 000	4000

41st through 60th Maintenance for Service Schedule I Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
41st	M1		41,000	65 600	4100
42nd	M1		42,000	67 200	4200
43rd	M1		43,000	68 800	4300
44th	M1		44,000	70 400	4400
45th	M1 and M2		45,000	72 000	4500
46th	M1		46,000	73 600	4600
47th	M1		47,000	75 200	4700
48th	M1		48,000	76 800	4800
49th	M1		49,000	78 400	4900
50th	M1, M2, and M3		50,000	80 000	5000
51st	M1		51,000	82 000	5100
52nd	M1		52,000	83 700	5200
53rd	M1		53,000	85 300	5300
54th	M1		54,000	86 900	5400
55th	M1 and M2		55,000	88 500	5500
56th	M1		56,000	90 100	5600
57th	M1		57,000	91 700	5700
58th	M1		58,000	93 300	5800
59th	M1		59,000	94 900	5900
60th	M1, M2, M3, and M4		60,000	96 500	6000

61st through 80th Maintenance for Service Schedule I Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
61st	M1		61,000	98 200	6100
62nd	M1		62,000	99 800	6200
63rd	M1		63,000	101 400	6300
64th	M1		64,000	103 000	6400
65th	M1 and M2		65,000	104 600	6500
66th	M1		66,000	106 200	6600
67th	M1		67,000	107 800	6700
68th	M1		68,000	109 400	6800
69th	M1		69,000	111 000	6900
70th	M1, M2, and M3		70,000	112 700	7000
71st	M1		71,000	114 300	7100
72nd	M1		72,000	115 900	7200
73rd	M1		73,000	117 500	7300
74th	M1		74,000	119 100	7400
75th	M1 and M2		75,000	120 700	7500
76th	M1		76,000	122 300	7600
77th	M1		77,000	123 900	7700
78th	M1		78,000	125 500	7800
79th	M1		79,000	127 100	7900
80th	M1, M2, M3, and M4		80,000	128 700	8000

81st through 100th Maintenance for Service Schedule I Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
81st	M1		81,000	130 400	8100
82nd	M1		82,000	132 000	8200
83rd	M1		83,000	134 000	8300
84th	M1		84,000	135 200	8400
85th	M1 and M2		85,000	137 000	8500
86th	M1		86,000	138 400	8600
87th	M1		87,000	140 000	8700
88th	M1		88,000	141 600	8800
89th	M1		89,000	143 200	8900
90th	M1, M2, and M3		90,000	144 800	9000
91st	M1		91,000	146 500	9100

Vehicle Maintenance Schedule Tables: 00–03

Maint. No.	Required Maintenance Operation Interval	Service Date	Service I		
			Miles	km	Hours
92nd	M1		92,000	148 100	9200
93rd	M1		93,000	150 000	9300
94th	M1		94,000	151 300	9400
95th	M1 and M2		95,000	153 000	9500
96th	M1		96,000	155 000	9600
97th	M1		97,000	156 100	9700
98th	M1		98,000	157 700	9800
99th	M1		99,000	159 300	9900
100th	M1, M2, M3, and M4		100,000	160 900	10 000

1st through 16th Maintenance for Service Schedule II Vehicles

Maint. No.	Required Maintenance Operation Interval	Service Date	Miles	km
1st	Initial Maintenance (IM)/M1		10,000	16 000
2nd	M1		19,000	30 000
3rd	M1		28,000	45 000
4th	M1 and M2		38,000	60 000
5th	M1		47,000	75 000
6th	M1		56,000	90 000
7th	M1		66,000	105 000
8th	M1, M2, and M3		75,000	120 000
9th	M1		84,000	135 000
10th	M1		94,000	150 000
11th	M1		103,000	165 000
12th	M1 and M2		112,000	180 000
13th	M1		122,000	195 000
14th	M1		131,000	210 000
15th	M1		141,000	225 000
16th	M1, M2, M3, and M4		150,000	240 000

1st through 24th Maintenance for Service Schedule III Vehicles

Vehicle Maintenance Schedule for Service Schedule III				
Maint. No.	Required Maintenance Operation Interval	Service Date	Miles	km
1st	Initial Maintenance (IM)/M1		12,500	20 000
2nd	M1		25,000	40 000
3rd	M1		37,000	60 000

Vehicle Maintenance Schedule Tables: 00–03

Vehicle Maintenance Schedule for Service Schedule III				
Maint. No.	**Required Maintenance Operation Interval**	**Service Date**	**Miles**	**km**
4th	M1 and M2		50,000	80 000
5th	M1		62,000	100 000
6th	M1		75,000	120 000
7th	M1		87,000	140 000
8th	M1, M2, and M3		100,000	160 000
9th	M1		112,000	180 000
10th	M1		125,000	200 000
11th	M1		137,000	220 000
12th	M1 and M2		150,000	240 000
13th	M1		162,000	260 000
14th	M1		175,000	280 000
15th	M1		187,000	300 000
16th	M1, M2, and M3		200,000	320 000
17th	M1		212,000	340 000
18th	M1		225,000	360 000
19th	M1		237,000	380 000
20th	M1 and M2		250,000	400 000
21st	M1		262,000	420 000
22nd	M1		275,000	440 000
23rd	M1		287,000	460 000
24th	M1, M2, M3, and M4		300,000	480 000

Lubrication and Fluid Level Check: 00–04

Table 1 summarizes all operations that must be performed to complete Lubrication and Fluid Level Check Operation 00–04 called for as an M1 maintenance interval for Service Schedule I, II, and III vehicles.

Maintenance operation numbers given in the table are reference numbers used to help you find detailed instructions in the manual on the lubrication or fluid check.

Maintenance Operation 00–04, Lubrication and Fluid Level Check for Service at M1		
Maintenance Operation No.	**Operation Description**	**Check**
25–01	Clutch Release Bearing Lubricating	
25–02	Clutch Release Cross-Shaft Lubricating	
25–03	Clutch Linkage Components Lubricating	
26–01	Shift Control Telescoping Tubes Lubricating and Inspecting, FLA/FLB	
26–02	Shift Control Latch Lubricating and Cylinder Inspecting, FLA/FLB	
26–04	Selection Lever and Pivot Rod Ball Stud Lubricating, FLA/FLB	
26–08	Transmission Oil Level Checking and Breather Checking	
31–02	Fifth Wheel Lubricating	
31–05	Trailer Electrical Connector Lubricating	
32–02	Suspension Lubricating	
33–01	Knuckle Pin Lubricating	
33–02	Tie-Rod End Inspecting and Lubricating	
35–01	Axle Breather and Lubricant Level Checking	
41–02	Driveline Lubricating	
42–03	Manual/Automatic Slack Adjuster Lubricating and Checking (All Models)	
46–01	Steering Driveline Lubricating	
46–02	Ross Manual Steering Gear Lubricant Checking, Model 503	
46–04	Drag Link and Power Steering Cylinder Lubricating	
46–05	Power Steering Reservoir Fluid Level Checking	
46–08	Ross Power Steering Gear Lubricating, TAS Series	
46–09	Sheppard Power Steering Gear Bearing Cap Lubricating	
60–01	Cab-Tilt System Checking, FLA/FLB	
72–01	Door Seal, Door Latch, and Door Hinge Lubricating	

Table 1, Maintenance Operation 00-04, Lubrication and Fluid Level Check for Service Schedules I, II, and III

Maintenance Operation Sets Table: 00–05

IMPORTANT: At each Maintenance Operation Set, in addition to the maintenance operations listed in this table, perform all daily, weekly, and monthly maintenance operations listed in the "Pretrip and Post-Trip Inspections and Maintenance" chapter of the vehicle driver's manual.

NOTE: Maintenance operations appearing in italics in this table are for noise emission control components. Numbers in this table are reference numbers matching those in the text of this manual.

Maintenance Operation Sets for Groups 00 through 83

Maint. Oper. No.	Operation Description	Maintenance Interval				
		IM	M1	M2	M3	M4
01–01	*Engine Rear-Support Assembly Checking*				•	•
01–02	*Engine Noise Panel Inspecting*				•	•
01–03	Jacobs Engine Brake Wiring Inspecting			•	•	•
01–04	Engine Drive Belt Inspecting				•	•
09–01	Air Cleaner Element Inspecting and Replacing				•	•
13–01	Bendix Air Compressor Inspecting	•	•	•	•	•
15–01	Alternator, Battery, and Starter Checking	•			•	•
20–01	Radiator Cap Checking			•	•	•
20–02	Radiator Pressure Flushing and Coolant Changing					•
20–03	*Fan Drive and Clutch Checking*			•	•	•
25–01	Clutch Release Bearing Lubricating	•	•	•	•	•
25–02	Clutch Release Cross-Shaft Lubricating	•	•	•	•	•
25–03	Clutch Linkage Components Lubricating	•	•	•	•	•
26–01	Shift Control Telescoping Tubes Lubricating and Inspecting, FLA/FLB	•	•	•	•	•
26–02	Shift Control Latch Lubricating and Cylinder Inspecting, FLA/FLB	•	•	•	•	•
26–03	Shift Lever Pivot Yokes Inspecting, FLA/FLB				•	•
26–04	Selection Lever and Pivot Rod Ball Stud Lubricating, FLA/FLB	•	•	•	•	•
26–05	Allison Transmission Fluid and Filter Changing					•
26–06	Manual Transmission Magnetic Plug Cleaning, Oil Changing, and Oil Filter Element Changing	•		•	•	•
26–07	Transmission Air Filter/Regulator Checking, and Cleaning or Replacing			•	•	•
26–08	Transmission Oil Level Checking and Breather Checking	•	•			
31–01	Fifth Wheel Inspecting	•	•	•	•	•
31–02	Fifth Wheel Lubricating	•	•	•	•	•
31–03	Frame Fastener Torque Checking	•				
31–04	Holland Fifth Wheel Sliding Mechanism Inspecting			•	•	•
31–05	Trailer Electrical Connector Lubricating	•	•	•	•	•
32–01	Suspension Inspecting	•	•	•	•	•
32–02	Suspension Lubricating	•	•	•	•	•
32–03	Suspension U-bolt Torque Checking	•			•	•

Maintenance Operation Sets Table: 00–05

Maint. Oper. No.	Operation Description	Maintenance Interval				
		IM	M1	M2	M3	M4
33–01	Knuckle Pin Lubricating	•	•	•	•	•
33–02	Tie-Rod End Inspecting and Lubricating	•	•	•	•	•
33–03	All-Axle Alignment Checking	•				
35–01	Axle Breather and Lubricant Level Checking		•	•	•	•
35–02	Axle Lubricant Changing, Oil Filter Replacing and Magnetic Strainer Cleaning	•			•	•
40–01	Wheel Nut and Rim Nut Checking			•	•	•
41–01	Driveline Inspecting	•	•	•	•	•
41–02	Driveline Lubricating	•	•	•	•	•
42–01	Brake Adjusting—Cam Brakes with Manual Slack Adjusters	•	•	•	•	•
42–02	Camshaft Bracket Bushing Lubricating			•	•	•
42–03	Manual/Automatic Slack Adjuster Lubricating and Checking (All Models)	•	•	•	•	•
42–04	Meritor Automatic Slack Adjuster Inspecting			•	•	•
42–05	Wedge Brake Checking	•	•	•	•	•
42–06	Wedge Brake Inspecting and Lubricating				•	•
42–07	Alcohol Evaporator Checking			•	•	•
42–08	Bendix Alcohol Evaporator Cleaning			•	•	•
42–09	Bendix Alcohol Evaporator Gasket Replacing				•	•
42–10	Bendix Air Dryer Checking (AD–2, AD–4, or AD–9)				•	•
42–11	Bendix Air Dryer or Anchorlok Aftercooler Inspecting (Bendix AD–2, AD–4, AD–9, or Anchorlok)	•	•	•	•	•
42–12	Bendix Air Dryer Desiccant Replacing (AD–2)					•
42–13	Bendix Air Dryer Desiccant Replacing (AD–4 or AD–9)					•
42–14	CR Brakemaster Air Dryer Cleaning (Model 62 or 68)	•	•	•	•	•
42–15	Anchorlok Aftercooler Automatic Ejector Valve Clearing			•	•	•
42–16	Bendix Air Brake Valve Operation Checking (BP–R1 and E–12)				•	•
42–17	Bendix Air Brake Valve Disassembly, Cleaning, and Inspecting (BP–1, Double Check Valve, E–6, PP–7, QR–1, R–6, R–14, SR–1, ST–3, TC–7, TP–5, TR–3)				•	•
42–18	Bendix Air Brake Valve Disassembly, Cleaning, Inspecting, and Lubricating (DV–2, PP–3, and Single Check Valve)			•	•	•
42–19	Bendix Air Brake Valve Inspecting and Testing (BP–1, BP–R1, LQ–5, PP–7, R–14, and TC–7)				•	•
42–20	Bendix Foot Brake Valve Actuator Lubricating (E–6 or E–12) and Leak-Testing (E–12)				•	•
42–21	Sealco Moisture Ejection Valve Operation- and Leak-Testing (Model 6300)			•	•	•
42–22	Midland Quick Release and Flipper Valve Checking	•	•	•	•	•
42–23	Meritor WABCO System Saver 1000 Air Dryer Desiccant Replacing					•
42–24	Brake Inspection	•	•	•	•	•
46–01	Steering Driveline Lubricating	•	•	•	•	•

Maintenance Operation Sets Table: 00–05

Maint. Oper. No.	Operation Description	Maintenance Interval				
		IM	M1	M2	M3	M4
46–02	Ross Manual Steering Gear Lubricant Checking, Model 503	•	•	•		
46–03	Ross Manual Steering Gear Lubricant Changing, Model 503				•	•
46–04	Drag Link and Power Steering Cylinder Lubricating	•	•	•	•	•
46–05	Power Steering Reservoir Fluid Level Checking	•	•			
46–06	Power Steering Reservoir Fluid and Filter Changing			•	•	•
46–07	Steering Driveline Deck Bearing Lubricating, FLA/FLB			•	•	•
46–08	Ross Power Steering Gear Lubricating, TAS Series	•	•	•	•	•
46–09	Sheppard Power Steering Gear Bearing Cap Lubricating	•	•	•	•	•
47–01	Fuel Tank Vent Checking			•	•	•
47–02	Fuel Tank Band Nut Tightening, FLA, FLB, and FLD	•	•	•	•	•
47–03	Fuel Separator Sight Bowl Cleaning and Element Replacing			•	•	•
49–01	*Exhaust System Inspecting*	•	•	•	•	•
54–01	Electrical System Checking	•			•	•
54–02	Speedometer/Tachometer Cable Lubricating				•	•
60–01	Cab-Tilt System Checking, FLA/FLB	•	•	•	•	•
60–02	Cab-Suspension Spring Center-Bolt Torque Checking, FLC			•	•	•
60–03	Cab Latch Checking, FLA/FLB	•	•	•	•	•
72–01	Door Seal, Door Latch, and Door Hinge Lubricating	•	•	•	•	•
83–01	Air Conditioner Inspecting			•	•	•

Initial Maintenance (IM) Operations: 00–06

IMPORTANT: After performing all operations listed in this table, perform all daily, weekly, and monthly maintenance operations listed in the "Pretrip and Post-Trip Inspections and Maintenance" chapter of the vehicle driver's manual.

NOTE: Numbers in this table are reference numbers matching those in the text of this manual.

Initial Maintenance (IM) Operations for Service Schedules I, II, and III

Initial Maintenance (IM) Operations for Service Schedules I, II, and III		
Maintenance Operation Number	**Operation Description**	**Check**
00–07	Perform all MI Operations	
15–01	Alternator, Battery, and Starter Checking	
26–06	Manual Transmission Magnetic Plug Cleaning, Oil Changing, and Oil Filter Element Changing	
31–03	Frame Fastener Torque Checking	
32–03	Suspension U-bolt Torque Checking	
33–03	All-Axle Alignment Checking	
35–02	Axle Lubricant Changing, Oil Filter Replacing, and Magnetic Strainer Cleaning	
54–01	Electrical System Checking	

M1 Maintenance Interval Operations Table: 00-07

The M1 Maintenance Interval Operations table lists all maintenance operations that are to be performed at the M1 maintenance interval. Maintenance operation numbers are reference numbers used to help you find detailed instructions in this manual on the maintenance operations to be performed.

IMPORTANT: After performing all operations listed in this table, perform all daily, weekly, and monthly maintenance operations listed in the "Pretrip and Post-Trip Inspections and Maintenance" chapter of the vehicle driver's manual.

M1 Maintenance Interval Operations for Service Schedules I, II, and III

M1 Maintenance Interval Operations for Service Schedules I, II, and III		
Maintenance Operation Number	**Operation Description**	**Check**
00–04	Lubrication and Fluid Level Check (includes the following) • Clutch Release Bearing Lubricating • Clutch Release Cross-Shaft Lubricating • Clutch Linkage Components Lubricating • Shift Control Telescoping Tubes Lubricating and Inspecting, FLA/FLB • Shift Control Latch Lubricating and Cylinder Inspecting, FLA/FLB • Selection Lever and Pivot Rod Ball Stud Lubricating, FLA/FLB • Transmission Oil Level Checking and Breather Checking • Fifth Wheel Lubricating • Trailer Electrical Connector Lubricating • Suspension Lubricating, Front and Rear • Knuckle Pin Lubricating • Tie-Rod End Inspecting and Lubricating • Axle Breather and Lubricant Level Checking • Driveline Lubricating • Manual/Automatic Slack Adjuster Lubricating and Checking (All Models) • Steering Driveline Lubricating • Ross Manual Steering Gear Lubricant Checking, Model 503 • Drag Link and Power Steering Cylinder Lubricating • Power Steering Reservoir Fluid Level Checking • Ross Power Steering Gear Lubricating, TAS Series • Sheppard Power Steering Gear Bearing Cap Lubricating • Cab-Tilt System Checking, FLA/FLB • Door Seal, Door Latch, and Door Hinge Lubricating	
13–01	Bendix Air Compressor Inspecting	
31–01	Fifth Wheel Inspecting	
32–01	Suspension Inspecting	
41–01	Driveline Inspecting	
42–01	Brake Adjusting—Cam Brakes With Manual Slack Adjusters	