

RECREATIONAL VEHICLE CHASSIS MAINTENANCE MANUAL

Models: MC

MCL

XCL

XCM

XCP

XCR

XCS

Page Description

For an example of a maintenance manual page, see Fig. 1.

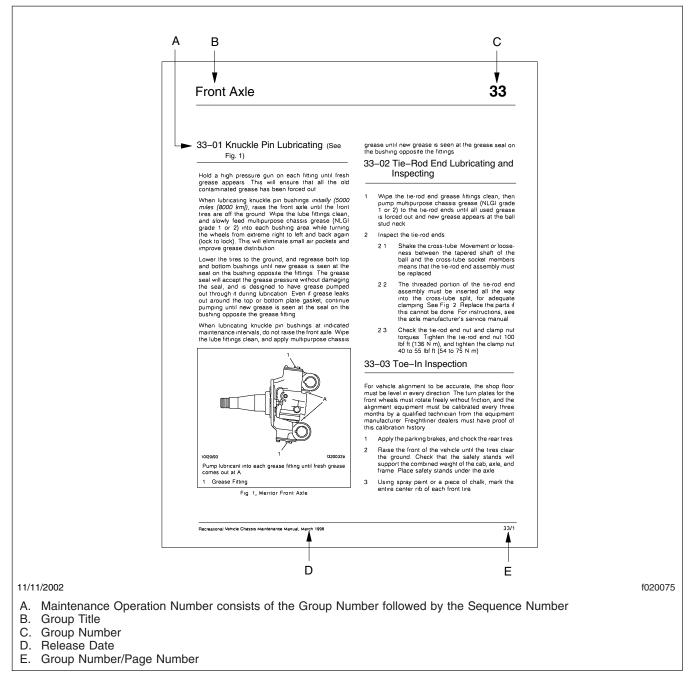


Fig. 1, Example of a Maintenance Manual Page

Maintenance Manual Contents

Group No.	Group Title
	General Information
	Engine
	Air Intake
	Alternators and Starters
	Engine Cooling/Radiator
26	Transmission
30	Throttle Control
32	Suspension
33	Front Axle
35	Rear Axle
40	Wheels and Tires
41	Driveline
42	Brakes
	Steering
47	Fuel
49	Exhaust
54	Electrical
83	Heater and Air Conditioner

General Information

00

Index, Alphabetical

Title of Maintenance Operation (MOP)	MOP Number
15,000 Mile or 12 Month Maintenance	00–04
30,000 Mile or 24 Month Maintenance	00–05
45,000 Mile or 36 Month Maintenance	00–06
60,000 Mile or 48 Month Maintenance	00–07
6000 Mile or 6 Month Initial Maintenance	00–03
General Maintenance Schedule Information	00–01
Metric/U.S. Customary Conversion Tables	
Noise Emission Controls Maintenance	00-08
Torque Specifications Tables	00–11
Vehicle Maintenance Schedule Table	
Verification of Inspections Log	00–09

General Maintenance Schedule Information: 00-01

General Maintenance Schedule Information

General Maintenance Schedule Information

Performing regular maintenance on your 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.

When the vehicle reaches the distance or time (whichever comes first) given for a maintenance interval, see the Vehicle Maintenance Schedule 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 for 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.

For specific engine maintenance information, see the *Cummins Operation and Maintenance Manual*.

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

Camp Freightliner Owner Training

Owners who want to learn more about their vehicle can attend a two-day training class, offered at the Freightliner Custom Chassis Service Center in Gaffney, South Carolina. Some of the items covered during the training include the air brake system, electrical system, vehicle storage, weight distribution, and maintenance intervals.

To learn more about the class or to register, go to www.freightlinerchassis.com. After entering the website, click "Motorhomes" and select "Owner Info". A class description and the registration form are located under the "Camp Freightliner" tab.

If needed, service work can be scheduled for your vehicle at the service center during your stay.

Tear-Out Checklists

IMPORTANT: Additional copies of the checklists should be made before giving this to a dealer, as they may not be returned to you. The correct number of checklists are included to cover the warranty period, however, if you want copies of the checklists for future maintenance after the warranty expires, you will need to make them. Freightliner Custom Chassis Corporation (FCCC) will not be able to send you additional copies.

At the back of the maintenance manual, there are checklists for each maintenance interval up to 60,000 miles (96 540 km). When a maintenance interval needs to be performed, take the vehicle to an authorized Freightliner dealer, remove the appropriate checklist, and give it to the dealer. These are the items that will be inspected for maintenance.

	/lali	ntei	nan	се	Op	erati	on P	roce	dure	s an	d Sc	hedı	ıle							
							IV	laint	enan	ce Ir	nterv	al in	Mile	s x 1	000					
	6	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285
Maintenance Operation Number							Maiı	ntena	ance	Inte	rval i	in Ki	lome	ters	x 10	000				
and Description	9	24	48	72	96	120	145	169	193	217	241	265	290	314	338	362	386	410	434	458
								Mai	inten	ance	Inte	erval	in M	lonth	s					
	6	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228
01-01 Engine Drive Belt Inspecting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
01–02 Engine-Support Fasteners Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
09–01 Air Cleaner Inspecting and Replacing*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
09–02 Charge Air Cooler (CAC) Inspecting and Cleaning	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15–01 Alternator, Battery, and Starter Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20-01 Radiator Cap Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20–02 Radiator Inspecting and Cleaning	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20-03 Coolant Replacing	wł co me	nich ola ontl	eve nt a ns,	er c ıddi whi	The coolant replacement interval is every 100,000 miles (160 900 km) or 60 months, whichever comes first. You must check and, if necessary, recharge the supplemental coolant additive (SCA) levels and freeze point every 25,000 miles (40 225 km) or 6 months, whichever comes first. See the applicable engine operation and maintenance manual for further information.															
20-04 Mechanical Fan Drive Gearbox Oil Changing	•			l			IOIIII	ation			, app	iicab	ie eii	giric	opei	allor	and	mair	пепа	ince
	1		•		•		•	ation			•	licab	•	girie	•	allon	and •	mair	•	ince
20–05 Mechanical Fan Drive Gearbox Lubricating		•	•	•	•	•		ation		•	···	•		•	· 	•		mair		e
		•		•		•	•		•		•		•		•		•		•	
Gearbox Lubricating 26–01 Transmission Breather	•		•		•		•	•	•	•	•	•	•	•	•	•	•		•	•
Gearbox Lubricating 26–01 Transmission Breather Checking 26–02 Allison MD/MH Series		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
Gearbox Lubricating 26–01 Transmission Breather Checking 26–02 Allison MD/MH Series Transmission Fluid Level Checking 26–03 Allison Transmission Fluid and Filter Changing (internal/		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Gearbox Lubricating 26–01 Transmission Breather Checking 26–02 Allison MD/MH Series Transmission Fluid Level Checking 26–03 Allison Transmission Fluid and Filter Changing (internal/ external filter) 30–01 Throttle Pedal Pivot Pin	Fo	• • or o	•	• and f	•	• • r cha	• • • nge i	•	· · · · · · · · · · · · · · · · · · ·	• • see t	• • •	• • pplica	• • • able i	• • • Alliso	• • • • • • • • • • • • • • • • • • •	• • • •	• • • or's N	• • •	• •	•
Gearbox Lubricating 26–01 Transmission Breather Checking 26–02 Allison MD/MH Series Transmission Fluid Level Checking 26–03 Allison Transmission Fluid and Filter Changing (internal/ external filter) 30–01 Throttle Pedal Pivot Pin Lubricating 32–01 Suspension Fastener	Fo	• • or o	• • • • • •	• and f	•	• • r cha	• • • • • • • • • • • • • • • • • • •	•	· · · · · · · · · · · · · · · · · · ·	• • see t	he a	• • pplica	• • • • • • • • • • • • • • • • • • •	• • • Alliso	• • • • • • • • • • • • • • • • • • •	• • • •	• • • • • • • • • • • • • • • • • • •	• • •	• • • • • • • • • • • • • • • • • • •	•
Gearbox Lubricating 26–01 Transmission Breather Checking 26–02 Allison MD/MH Series Transmission Fluid Level Checking 26–03 Allison Transmission Fluid and Filter Changing (internal/ external filter) 30–01 Throttle Pedal Pivot Pin Lubricating 32–01 Suspension Fastener Torque Checking 32–02 Suspension Height Control	•	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	and f	•	• r cha	• • • • • • • • • • • • • • • • • • •	·	• • • • • • • • • • • • • • • • • • •	• • •	he a	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	on Opp	• • • • • • • • • • • • • • • • • • •	or's N	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	•

General Information 00

N	/lair	nte	nan	се	Ор	erati	on P	roce	dure	s an	d Sc	hedu	ıle							
							N	laint	enan	ce Ir	nterv	al in	Mile	s x 1	1000					
	6	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285
Maintenance Operation Number							Maiı	ntena	ance	Inte	r val i	in Ki	lome	ters	x 10	00				
and Description	9	24	48	72	96	120	145	169	193	217	241	265	290	314	338	362	386	410	434	458
								Mai	inten	ance	Inte	erval	in N	lonth	าร					
	6	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228
32-05 Suspension Inspecting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32–06 Suspension U-Bolt Torque Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33–01 Knuckle Pin Lubricating [†]	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33–02 Tie-Rod End Lubricating and Inspecting [†]	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33–03 All-Axle Alignment Checking	•																			
33-04 Wheel End Inspection	•	•		•		•		•		•		•		•		•		•		•
33–05 Oil-Filled Hubs Oil Level Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
33-06 Oil-Filled Hubs Oil Changing		•		•		•		•		•		•		•		•		•		•
35–01 Axle Lubricant Level Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35–02 Axle Lubricant Changing and Magnetic Plug Cleaning	mi ch wh luk firs	iles ang nich bric st, a	(16 ge t neve ant and	he er c at ev	900 lubi omo 100 ery	axle km) ricant es fir 0,000 24 m	or evest. For mile month	very 1 ry 25 or Me s (16 is the	0,000 eritor 0 90 ereaft	onths 0 mile rear 0 km er; if	s, wh es (4 axles) or a synt	ichev 02 2 s witl at 12 hetic	er co 50 kr n pet mon oil is	omes n) or roleu ths c use	first; ever m-ba of ser d, ch	if sy y 36 ised vice, ange	nthe mor oil, c whice the	tic oi iths, hang heve lubri	l is u e the er cor cant	sed,
35-03 Axle Breather Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35–04 Oil-Filled Hubs Oil Level Checking, Tag Axle	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35–05 Oil-Filled Hubs Oil Changing, Tag Axle		•		•		•		•		•		•		•		•		•		•
40-01 Wheel Nut Checking	•		•		•		•		•		•		•		•		•		•	
40–02 Wheel Cleaning and Polishing	Pe	erfo	rm	the	se s	steps	eac	h tim	e the	whe	els a	ınd/o	r the	vehi	cle is	was	hed.			
41–01 Driveline Inspecting and Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42–01 Brake System Valves Inspecting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
42-02 Air Dryer Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		1	I	•
	_			1	1									1	_		•	•	•	•
42–03 Air Dryer Desiccant and Coalescent Filter Replacing				•			•			•			•			•	•	•	•	

I	/laiı	nte	nan	се	Op	erati	on P	roce	dure	s an	d Sc	hedu	ıle							
Maintenance Interval in Miles x 1000																				
	6	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285
Maintenance Operation Number							Maiı	ntena	nce	Inte	rval	in Ki	lome	ters	x 10	00				
and Description	9	24	48	72	96	120	145	169	193	217	241	265	290	314	338	362	386	410	434	458
								Ma	inten	ance	Inte	erval	in N	lonth	ıs					
	6	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228
42-05 Slack Adjuster Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42–06 Foot Brake Valve Actuator Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42-07 Bendix Hydro-Max® Brake System Inspecting (front-engine diesel chassis)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42–08 Brake Caliper Slide Pin Lubricating, Bosch Brakes (frontengine diesel chassis)	Lu	ıbrio	cate	e ev	ery	6 m	onths	o OR	ever	y 18	,000	mile	s (28	962	km),	whic	heve	er cor	nes 1	first.
42–09 Brake Lines Checking, Hydraulic Disc or Air Brakes	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42–10 Brake Lining Wear Checking, Hydraulic Disc Brakes (front-engine diesel chassis)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42-11 Brake Inspecting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
42–12 Meritor Roller Pin Lubricating		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46-01 Drag Link Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46–02 Power Steering Reservoir Fluid Level Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46–03 Power Steering Fluid and Filter Changing		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46–04 Steering Driveline Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46-05 Steering Gear Lubricating	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
46–06 Hydraulic Reservoir Filter Changing (metal reservoir only)	•		•		•		•		•		•		•		•		•		•	
47–01 Fuel Tank Mounts and Fuel Line Checking	•		•		•		•		•		•		•		•		•		•	
47–02 Fuel/Water Separator Element Replacing						ble e			eratio	n an	d ma	ainter	nance	e ma	nual	for fu	iel/wa	ater s	separ	rator
49–01 Exhaust System Inspecting (Noise Emission Control)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
54–01 Ground Cables Checking and Cleaning	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
54-02 Battery Voltage Checking	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

General Information 00

Maintenance Operation Procedures and Schedule																				
	Maintenance Interval in Miles x 1000																			
	6	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285
Maintenance Operation Number		Maintenance Interval in Kilometers x 1000																		
and Description	9	24	48	72	96	120	145	169	193	217	241	265	290	314	338	362	386	410	434	458
								Mai	nter	ance	Inte	erval	in M	onth	ıs					
		12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228
83–01 Air Conditioner Inspecting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

^{*} Inspect the air cleaner every 6 months. Replace the air filter every 12 months, or when filter restriction reaches 25 inH₂0 (if equipped with an air restriction gauge).

Table 1, Maintenance Operation Procedures and Schedule

[†] For vehicles with Detroit axles, complete this procedure once a year or every 25,000 miles (40 000 km), whichever comes first.

6000 Mile or 6 Month Initial Maintenance: 00-03

Procedure Performed (check off or initial)	6000 Mile (9654 km) or 6 Month Initial Maintenance*	MOP
Inspect	Engine Drive Belt Inspecting	01–01
Check	Engine-Support Fasteners Checking	01–02
Change	Engine Oil and Filter (see the engine manufacturer's manual)	_
Change	Air Cleaner Inspecting and Replacing	09–01
Inspect	Charge Air Cooler (CAC) Inspecting and Cleaning (if cleaning is needed)	09–02
Check	Alternator, Battery, and Starter Checking	15–01
Inspect/ Check	Radiator (radiator cap, coolant freeze points, SCA levels, hose routing for chaffing and leaks)	20–01, 20–02, 20–03
Change	Mechanical Fan Drive Gearbox Oil Changing	20-04
Change	Transmission Fluid and Filter (if required by Allison)	26–03
Inspect	Transmission Hose Routing for Chaffing and Leaks	_
Lubricate	Throttle Pedal Pivot Pin Lubricating	30–01
Inspect	Suspension	32–01, 32–06
Check	Suspension Height Control Valve Checking	32–02
Lubricate	ZF IFS Lubricating	32-04
Check	Suspension U-Bolt Torque Checking	32–06
Lubricate	Knuckle Pin Lubricating [†]	33–01
Lubricate	Tie-Rod End Lubricating and Inspecting [†]	33–02
Check	All-Axle Alignment Checking	33–03
Inspect	Wheel End Inspecting	33–04
Check/ Change	Oil-Filled Hubs Oil Changing (front and tag axle)	33–05, 33–06, 35–04, 35–05
Check	Axle Seals for Leaks	_
Change	Axle Lubricant Changing and Magnetic Plug Cleaning (Detroit and Meritor axles)	35–02
Check	Axle Breather Checking	35–03
Check	Wheel Nut Checking	40-01
Check	Tire Pressure	_
Lubricate	Driveline Inspecting and Lubricating	41–01
Inspect	Brake System Valves Inspecting	42-01
Inspect	Air Dryer and Air Lines for Proper Routing, Chaffing, and Leaks	42-02

Thanks for your reading.

Please click here to download complete manual instantly.

And can also choose other manuals.

Feel free --->write to me with any questions.

Our service email:

manuals007@hotmail.com