

TRUCK, CARGO, MEDIUM, CRANE, MC2 – UNIMOG

SERVICING INSTRUCTION

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

Introduction

1. This EMEI details the requirements for each level of servicing for the crane fitted to the Truck, Cargo, Medium, Crane, MC2 – Unimog. The cab/chassis servicing is detailed in EMEI Vehicle G 609. Para 3 details the servicing sequence and Table 1 details the actions to be performed at each of the levels of servicing.

WARNING

All industrial safety, work practices and equipment operating and maintenance instructions pertaining to this EMEI are to be adhered to.

WARNING

The handling, storage and use of chemical substances is to be in accordance with SAFETYMAN, MSDS and EMEI Workshop E series requirements.

Associated Publications

2. Reference may be necessary to the latest issue of the following EMEI for maintenance and repair procedures:
- [EMEI Vehicle A 029-1](#) – Vehicles – General, B Vehicles – Vehicle-loading Cranes – Recertification – General Instruction;
 - [EMEI Vehicle A 028-1](#) – Vehicles – General, B Vehicles Mounted Cranes – Technical Inspection Requirements – Miscellaneous Instruction;
 - [EMEI Vehicle G 609](#) – Truck, Cargo, Medium, MC2 – Unimog – Servicing Instruction;
 - [EMEI Vehicle G 618-1](#) – Truck, Medium, MC2 – Unimog – All Types, Technical Inspection – Inspection for Useability;
 - Current version of the Technical Regulation of Army Materiel Manual – Land (TRAMM-1) (available from DTR-A website <http://intranet.defence.gov.au/armyweb/Sites/DTRA>); and
 - [Defence Safety Manual \(SAFETYMAN\)](#).

Servicing Sequence

3. The following servicing sequence is to be applied:
- Technical Inspection (TI) – 5 000 km or 12 months after the last service (this is to include a brake and clutch fluid change);
 - Minor Service – 5 000 km or 12 months after the first TI;
 - TI – 5 000 km or 12 months after the Minor Service
 - Major Service – 5 000 km or 12 months from second TI;
 - TI – 5 000 km or 12 months after the last Major Service;
 - Minor Service – 5 000 km or 12 months from third TI;
 - TI – 5 000 km or 12 months after the second Minor Service; and
 - Alternate Major Service – 5 000 km or 12 months after the fourth TI.

4. Servicing is based on distance travelled or time elapsed, with all vehicles being serviced at least once every 24 months. Unit commanders may reduce the periods between services or add servicing tasks to meet operational or exercise requirements. A scheduled service may be anticipated or delayed within a limit of plus or minus 10% of the interval between services to meet operational needs and to permit workload planning.

NOTE

When the equipment exceeds the 10% maximum limit of the servicing interval, it is to be classified 'Do Not Use – XX' until the outstanding service is completed.

Authorised Personnel

5. All tradesperson tasks are to be carried out by the following tradespersons as applicable to the task:
- a. Vehicle Mechanic (ECN 229);
 - b. Fitter Armament (ECN 146);
 - c. Recovery Mechanic (ECN 226); or
 - d. tri-service/civilian equivalent.

Standard Jobs

6. Standard Job Numbers have been raised to detail the vehicle servicing and Technical Inspection procedures. The following standard job numbers have been allocated:

- a. TI – 000554;
- b. Minor Service – 006434;
- c. Major Service – 006435; and
- d. Alternate Major Service – 006436.

Additional Tasks

7. No additional tasks are to be added to scheduled maintenance work orders. A separate, linked work order shall be raised to record additional maintenance tasks identified during the servicing and/or the Technical Inspection. These additional tasks may include, but not be limited to, the replacement of wheel bearings, brake pads/shoes, wheel cylinders etc, and outstanding modifications. The additional tasks are to be completed in conjunction with the scheduled maintenance.

Table 1 Servicing Requirements

Serial	Item or Assembly	TI (Note 1)	Minor Service	Major Service	Alternate Major Service	Capacity (Litres)	Lubricant
Operator Tasks							
1	Stabiliser foot plate	-	L	L	L		XG-291
2	Stabiliser extension boxes	-	L	L	L		XG-291
3	Support column	-	L	L	L		XG-291
4	Hydraulic oil reservoir	-	T	D	D	35	OM-33
5	Cylinder pivots	-	L	L	L		XG-291
6	Extension boom pivot	-	L	L	L		XG-291
7	Cargo hook	-	L	L	L		XG-291
8	Control levers roll pin assembly	-	L	L	L		XG-291
9	Extension box locking bolt	-	L	L	L		XG-291
10	Stabiliser ram locking bolt	-	L	L	L		XG-291
11	Slewing system guide block	-	L	L	L		XG-291
12	Hydraulic oil filter	-	R	R	R		
13	Inner boom pivot	-	L	L	L		XG-291
14	Outer boom pivot	-	L	L	L		XG-291

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Table 1 Servicing Requirements (Continued)

Serial	Item or Assembly	TI(Note 1)	Minor Service	Major Service	Alternate Major Service	Capacity (Litres)	Lubricant
Operator Tasks (cont.)							
15	Boom extension guide blocks	-	L	L	L		XG-291
Tradesperson Tasks							
16	Hydraulic hose and connections	-	I	I	I		
17	Inner boom – interior and exterior	-	I	I	I		
18	Crane to chassis mounting bolts	-	I	I	I		
19	Crane to frame mounting bolts	-	I	I	I		
20	Hydraulic oil pump mounting bolts	-	I	I	I		
21	Raise Technical Inspection Report (Para 8)	AR	AR	AR	AR		
22	Record details of Inspection in GM 120 Part 2 – Record of Inspection	AR	AR	AR	AR		
23	Record details of Service in GM 120 Part 2 – Record of Service	-	AR	AR	AR		
Notes							
Note 1. Ref EMEI Vehicle G 609.							
Legend: AR – Action Required, D – Drain and refill, I – Inspect, L – Lubricate, R – Replace							

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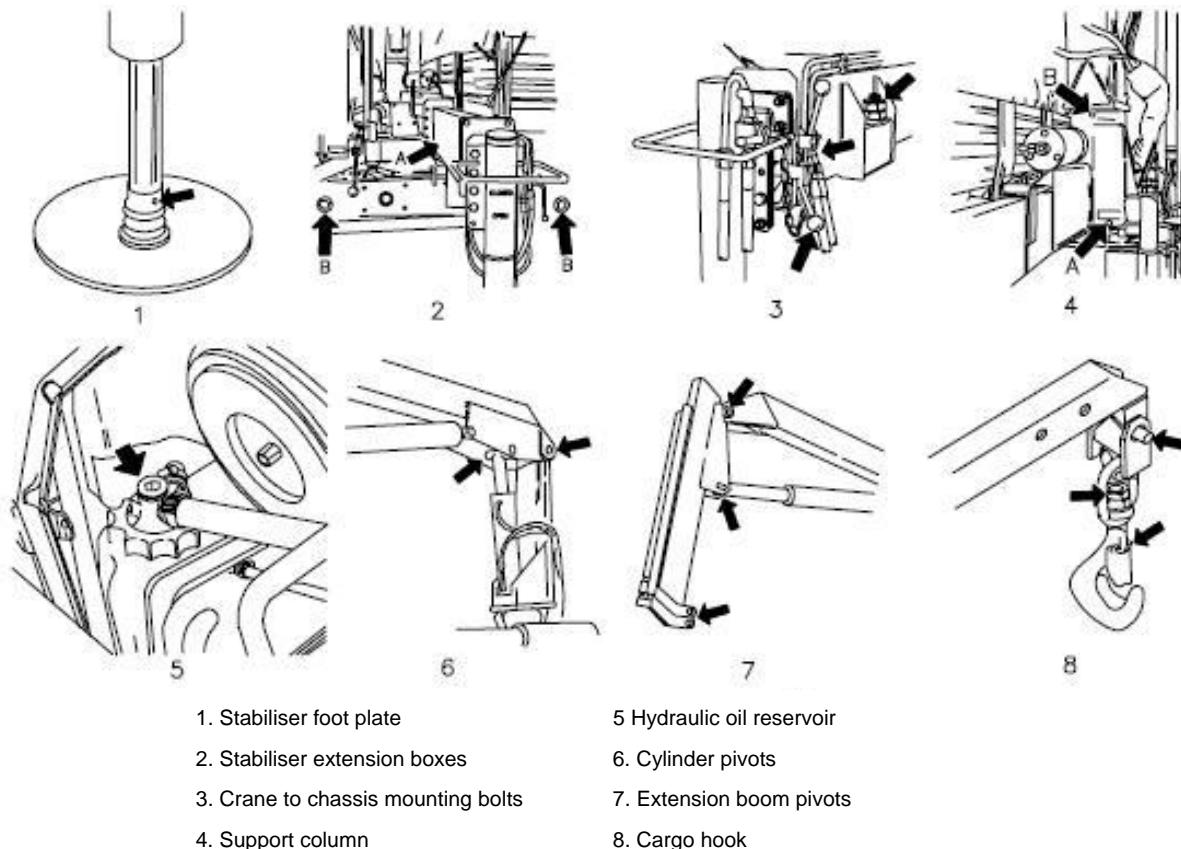


Figure 1 Crane Servicing Points General

8. Technical Inspection. The crane is to be technically inspected once every 12 months or at each service in accordance with EMEI Vehicle A 028-1 and a TI report raised, entering the details of the inspection in Part 2 of the vehicle’s GM 120 and attaching a copy of the report to the GM 120. The original of the TI is to be retained with the work order.

Recertification

9. The crane is to be recertified, in accordance with EMEI Vehicle A 029-1, 10 years after manufacture and every five years thereafter.

NOTE

Any crane that exceeds the 10 years recertification date and is not recertified or five years after recertification and is not recertified is to be classified '**Do Not Use – XX**'.

10. **Standard Jobs.** Standard Job Numbers have been raised to detail the vehicle servicing and Technical Inspection procedures. The following standard job numbers have been allocated:

- a. 10-yearly Unimog Crane Recertification – 000592; and
- b. Five-yearly Recertification – 006613.

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END

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