SM025
FD50/80.6-BE1

FD50/60/70-6
FD80-6
FD50E/60E/70E-6
FD60H/70H-6
FG50/60/70-6
FG50E/60E/70E-6

KOMATSU FORKLIFT USA

SHOP MANUAL

FD50/60/70-6
FD80-6
FD50E/60E/70E-6
FD60H/70H-6
FG50/60/70-6
FG50E/60E/70E-6

MACHINE MODEL	SERIAL No.
FD50/60/70	**65001 and up**
FD80	**51001 and up**
FD50E/60E/70E	**36001 and up**
FD60H/70H	**71001 and up**
FG50/60/70	**81001 and up**
FG50E/60E/70E	**26001 and up**

FOREWORD

Proper operation, maintenance, troubleshooting and repairs are necessary to preserve the performance of vehicles and engines over a long period of time and to ensure that fault and breakdowns do not occur.
The object of this Shop Manual is to provide the information necessary especially in connection with the performance of inspections and repairs mainly in the maintenance areas.
For this purpose, it includes sections on "General and Specifications", "Removal and Installation", "Disassembly and Assembly", "Structure and Function" and the "Maintenance and Inspection Guide".
Maintenance data necessary for the performance of maintenance on the machines is also included, but reference should be made to the Operation and Maintenance Manual for further details.
Reference should also be made to this manual in connection with correct operation of the machine.

The content of the items mentioned above is as follows.

General and Specifications
This chapter indicates the Overall Dimensions and Specifications of vehicles.

Removal and Installation
This chapter indicates the name of each part of the machine, and the order of Removal of the Mast, Power train, Brake system etc., and the point of reinstallation of them.

Disassembly and Assembly
This chapter explains the point of Disassembly, Inspection/Repair (on Replacement), and Reassembly of individual component parts.

Structure and Function
This chapter explains the structure of the TORQFLOW transmission as well as the Brake system and Steering system.

Maintenance and Inspection Guide
This chapter explains the Maintenance Table, and dimensions to be referred to during servicing.

Reference should be made to the "General Shop Manual" for safe operating and working methods which serve as the basis for the performance of repair and inspection works on machines.

PRECAUTIONS WHEN PERFORMING THE SERVICE WORK

Always pay attention to 'Safety' before starting any work – this is important.
Never attempt any work where there is danger to yourself or to other persons.
Whenever work requiring safety precautions are described in this manual, a flag mark ⚠ is inserted, so always make doubly sure that safety measures are taken.
Other unmarked work should always be performed after studying and using your common sense to prevent accidents.

DESCRIPTION OF THE SYMBOLS

The symbols described below are used in this manual for convenience and better understanding.

Symbol	Item	Description
⚠	**Safety**	Special safety precautions are needed to perform the work.
★	**Note**	Special technical precautions are needed to perform the work.
kgm	**Tightening Torque**	Fastening parts that require specified tightening force when assembling.
kg	**Weight**	Weight of parts or systems
	Coat	Places to be coated with adhesives, etc. when assembling.

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00. FOREWORD

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10. REMOVAL AND INSTALLATION

20. DISASSEMBLY AND ASSEMBLY

30. STRUCTURE AND FUNCTION

40. MAINTENANCE AND INSPECTION GUIDE

50. CONVERSION TABLE

01. GENERAL AND SPECIFICATIONS

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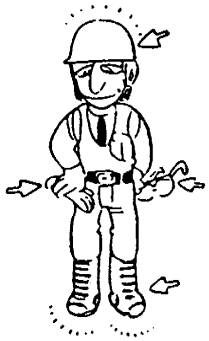
PRECAUTIONS FOR MAINTENANCE

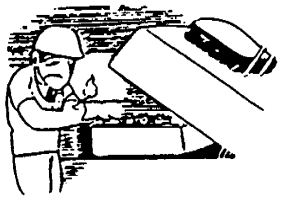
Careless performing of the easy work may cause injuries. Take care to always perform work safely, at least observing the following.

- Oil is a dangerous substance.
  Never handle oil, grease or oily clothes in places where there is any fire or flame.
  As preparation in case of fire, always know the location and directions for use of fire extinguishers and other fire-fighting equipment.

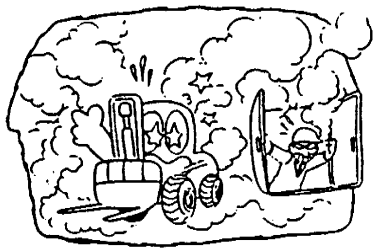
- Wear well-fitting helmet, safety shoes and working clothes. When drilling, grinding or hammering, always wear protective goggles.
  Always do up safety clothes properly so that they do not catch on protruding parts of machines. Do not wear oily clothes.
  When checking, always release battery plug.

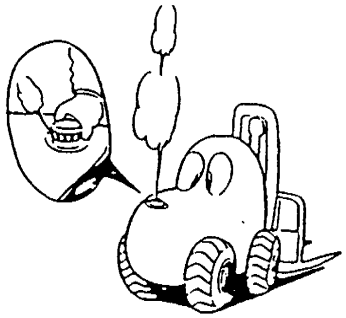


- Flames should never be used instead of lamps. Never use a naked flame to check leaks or the level of oil or electrolyte.



- Exhaust gas is dangerous. Provide adequate ventilation when working in a closed space.



⚠ Be particularly careful when removing the radiator cap and the hydraulic oil tank filler cap. If this is done immediately after using the machine, there is a danger that boilibn oil may spurt out.

- The procedure for releasing the hydraulic pressure is as follows: lower the fork to the ground, and stop the engine (motor); move the control levers to each position two or three times.