

SHOP MANUAL

**FB10EX/14EX/
15EX/18EX-7
FB15EXG/18EXG-7
FB20EX/25EX-5
FB20EXG/25EXG-5
FB30EX-5**

MACHINE MODEL

FB10EX/14EX/15EX/18EX-7

FB15EXG/18EXG-7

FB20EX/25EX-5

FB20EXG/25EXG-5

FB30EX-5

SERIAL NO.

65104 and up

65104 and up

83060 and up

83060 and up

89307 and up

FOREWORD

This shop manual is applicable for the improved-quality model of the battery forklift truck FB10.7/FB30.5.

Following the quality improvement, changes have been made to various components. This manual gives the necessary precautions and data for daily maintenance and service activities of these components.

The improvements in the plugging performance when switching between FORWARD and REVERSE during travel operations consist of changes in the software data (the ROM has been rewritten). The increase in the travel speed has been achieved mainly by changing

the reduction ratio of the transfer gear. There has been no change in the specifications, such as in the gear backlash.

The troubleshooting display function for the electronic control is the same as on the present FB10.7/FB30.5 lift truck.

Therefore, for maintenance and service activities on the new FB10.7/FB30.5 truck, use this shop manual (BBB05E2-01) together with the existing shop manual (FB10.7/30.5-BE1).

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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.

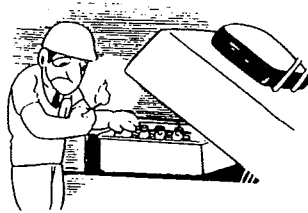
- Oil is a dangerous substance. Never handle oil, grease or oily clothes in places where there is any fire or flame. As preparation in case of fire, always know the location and directions for use of fire extinguishers and other fire-fighting equipment.



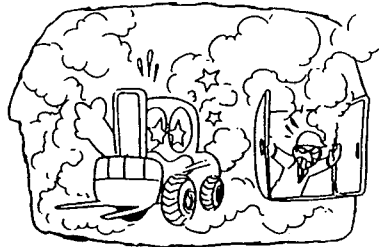
- Wear well-fitting helmet, safety shoes and working clothes. When drilling, grinding or hammering, always wear protective goggles. Always do up safety clothes properly so that they do not catch on protruding parts of machines. Do not wear oily clothes. When checking, always release battery plug.



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

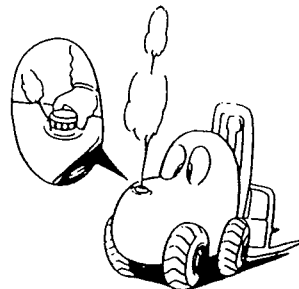


- Exhaust gas is dangerous. Provide adequate ventilation when working in a closed space.



- ⚠ 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 boiling 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.

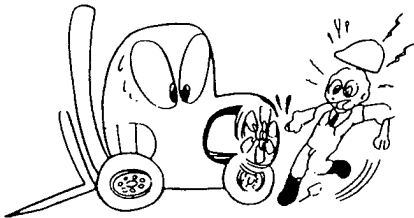


- When working on top of the machine, be careful not to lose your balance and fall.
- Hang a caution sign in the operator's compartment (for example "Do not start" or "Maintenance in progress"). This will prevent anyone from starting or moving the machine by mistake.

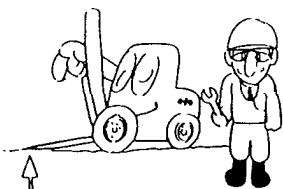


It is extremely dangerous to try to check the fan belt tension while the engine is running. When inspecting the fan belt or other moving parts, or near such parts, always stop the engine first.

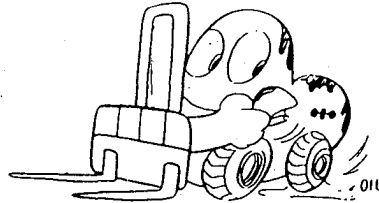
Before checking or servicing accumulator or piping, depress brake pedal repeatedly to release pressure.



- Park the machine on firm, flat ground. Lower the fork to the ground and stop the engine. Return each lever to "NEUTRAL" and apply the brake lock.



- Immediately remove any oil or grease on the floor of the operator's compartment, or on the handrail. It is very dangerous if someone slips while on the machine.



- When working with others, choose a group leader and work according to his instructions. Do not perform any maintenance beyond the agreed work.



- Unless you have special instructions to the contrary, maintenance should always be carried out with the engine stopped. If maintenance is carried out with the engine running, there must be two men present: one sitting in the operator's seat and the other one performing the maintenance. In such a case, never touch any moving part.
- Always remember that the hydraulic oil circuit is under pressure. When feeding or draining the oil or carrying out inspection and maintenance, release the pressure first.

