

MH City

MH Plus

MH 5.6

HYDRAULIC EXCAVATOR

Workshop Manual

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THIS ALERT SYMBOL SIGNALS IMPORTANT MESSAGES INVOLVING YOUR SAFETY.

Read and heed carefully the safety instructions listed and follow the precautions recommended to avoid potential risks and to safeguard your health and your safety.

You will find this symbol in the text of this Manual referred to the following key words:

WARNING - Cautions directed to avoid improper repair interventions involving potential consequences for the safety of the personnel performing the repairs.

DANGER - These warnings qualify specifically potential dangers for the safety of the operator or other persons directly or indirectly involved.

IMPORTANT NOTICE

All maintenance and repair interventions explained in this Manual **must be performed exclusively by the Service Organisation of the Manufacturer**, observing strictly the instructions explained using, whenever necessary, the recommended specific tools.

Whoever performs the operations reported without following exactly the precautions is responsible on his own, for the damages that may result.

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In any case, no warranty of any kind is made or shall be imposed with respect to products manufactured or merchandised by the Factory, when failures are caused by the use of parts and/or components not approved by the Factory.

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SECTION 0
SAFETY INSTRUCTION

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SAFETY INSTRUCTIONS

Personal safety instructions

Observe the safety instructions



- Read carefully through all safety instructions attached to the machine and observe them; read all safety instructions in this manual in addition.
- Safety instruction stickers/plates must be affixed, maintained and replaced when necessary.
- If a safety instruction sticker/plate or this manual is damaged or missing, obtain a replacement from your dealer. The procedure is the same as when ordering spare parts (it is essential to quote the machine type and the serial number).
- Familiarize yourself with the correct, safety-oriented procedure for operating the machine and its control elements.
- Allow only trained, qualified and authorized persons to operate the machine.
- Keep the machine in good working order.
- Unauthorized modifications to the machine may affect its efficiency and/or safety and reduce its service life.
- The instructions given in this Safety Instructions section are designed to show the fundamental safety procedures for the machine. However, they cannot cover all hazardous situations with which you may be confronted. If in doubt, consult your immediate superior before operating the machine or carrying out servicing work.

Protection from noise



- Sustained effects of noise may lead to impaired hearing or deafness.
- Wear appropriate ear protectors such as earplugs or muffs for protection from disturbing or intolerable noise.

Preparing for emergencies



- Be prepared for the event of a fire breaking out or an accident occurring.
- Keep the first-aid box and the fire extinguisher readily accessible at all times.
- Read the instructions for operating the fire extinguisher and learn how to use it properly.
- Stipulate emergency procedures for the event of fire or accidents.
- Keep the emergency numbers of doctors, emergency services, hospitals and the fire service in the immediate vicinity of the phone.

Wearing protective clothing



Wear close-fitting clothing and protective equipment suited to the work.

You need:

- a safety helmet
- safety footwear
- goggles or face guard
- protective gloves
- ear protectors
- reflective clothing
- waterproof clothing
- respirator or filtering mask.

Ensure that you wear the right equipment and clothing for the job.

- Never take risks.
- Never wear loosely fitting clothing, jewellery or other objects that might get caught on operating levers or other machine components.

Safe operation demands the operator's complete attention. Never wear headphones to listen to the radio or to music while operating the machine.

Safety instructions before starting work

Checking the machine



Before starting up the machine each day or before each shift, give the outside of the machine a careful visual inspection to prevent damage and injury.

- Check the machine for superficial damage.
- Check before starting work that all covers and caps are closed and locked.



Fig. 1

Keeping the working area clean



Clean the working area before starting work.

- Remove any objects that might endanger the mechanics or persons in the working area.
- Keep your cab clean and cleared; loose items may disturb the machine operation.

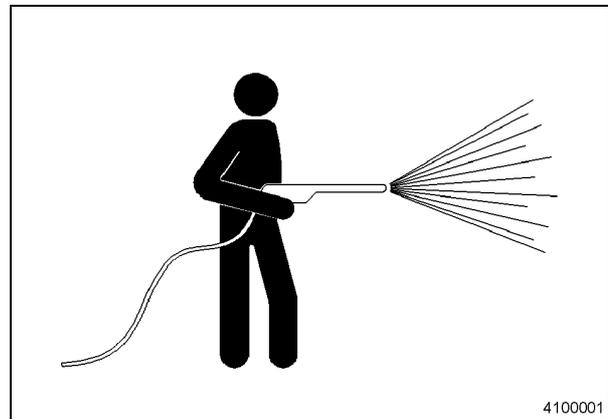


Fig. 2

Using grab handles and steps



Falls are one of the main causes of injury.

- Always face the machine when entering or leaving it, and use only the aids provided, e.g. steps and handrails.
- Never use operating elements as grab handles.
- Never jump down from the machine.
- Never climb up onto or down from a moving machine.
- Watch for slippery platforms, steps and handles when leaving the machine.

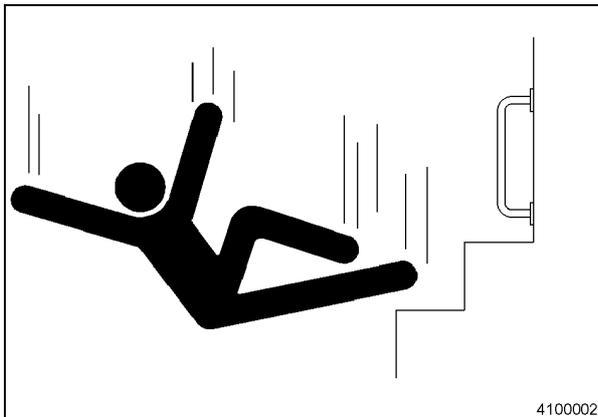


Fig. 3

Adjusting the operator's seat



A seat that is poorly adjusted with respect to the operator or the working conditions may result in premature operator fatigue and thus in faulty operation.

- The seat must be adjusted with any change of machine operator.
- The operator must be able to depress the pedals completely and move the control levers effortlessly with his back resting against the backrest.

If that is not possible, move the seat forward or back and check the setting again.

Consult the relevant section in the Owner's Manual.

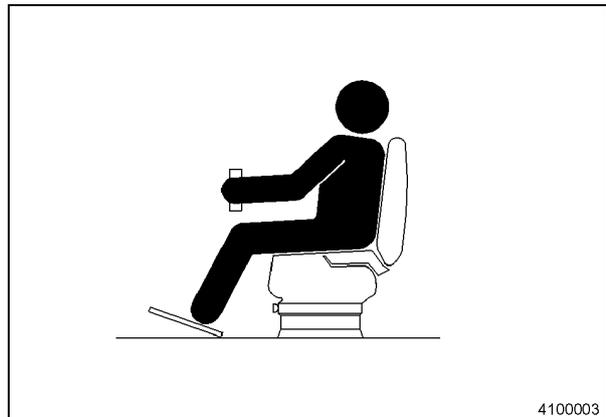


Fig. 4

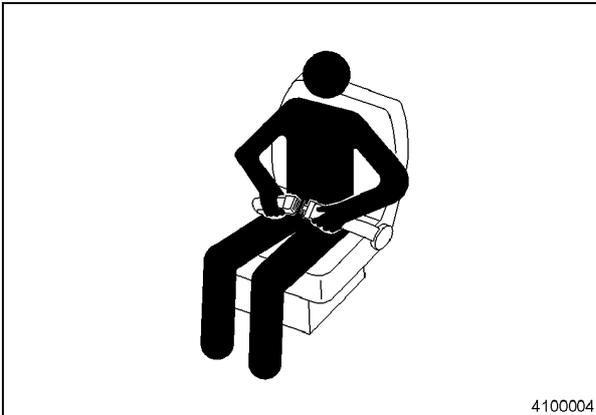
Applying the safety belt



If the machine overturns, the operator may be injured and/or thrown out of the cab. He may be severely injured or even crushed to death by the overturning machine.

- Before operating the machine, check the belt fabric, the closure and the fastening components carefully. If one of the parts is damaged or worn, replace the safety belt or the components before starting up the machine.
- Always remain seated and keep the safety belt fastened while operating the machine. This will help minimize the risk of injury in the event of an accident.

The safety belt must be replaced after any serious accident even if it appears to be undamaged.



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Fig. 5

Working from the operator's seat only



Starting up the engine incorrectly may cause the machine to make unexpected movements that might lead to severe, even fatal, injury.

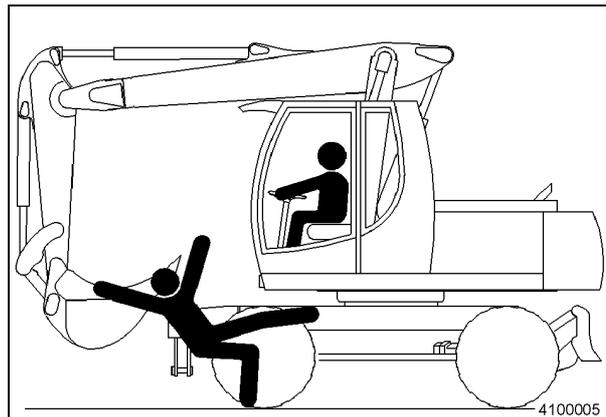
- Always start up the engine from the operator's seat only.
- Never start the engine by short-circuiting the starter.
- After starting up the engine, check that all driving levers, driving pedals and control levers are in neutral position.

Never take passengers on the machine



Passengers on the machine may suffer injury e.g. from foreign bodies or through being thrown off.

- Only the operator is allowed onto the machine. Never take passengers.
- Passengers also obstruct the operator's view so that the machine is no longer safely operated.



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Fig. 6

Safety instructions for machine operation

Before setting off



Remove any soil, mud, snow, ice, grease and oil from your working footwear before operating the machine. You might otherwise slip from steps and pedals and thus initiate inadvertent movements.

Adjust the driver's seat and the mirror before setting off.

Close the front window and the cab door.

If the machine is equipped with a restraining belt for the operator, fasten the belt.

Before setting off, sound the horn to warn any persons in the immediate vicinity.

Never allow other persons to travel with you on the machine.

Note the position of the working equipment



Never drive with the working equipment extended, as that may impair the stability of the machine. Bring the working equipment as close as possible to the machine.

Taking care during operation



If the front equipment or another part of the machine collides with a higher obstacle, e.g. a bridge, both the machine and the other object are damaged, and persons may be injured.

Take care to prevent the boom or stick from colliding with higher obstacles.

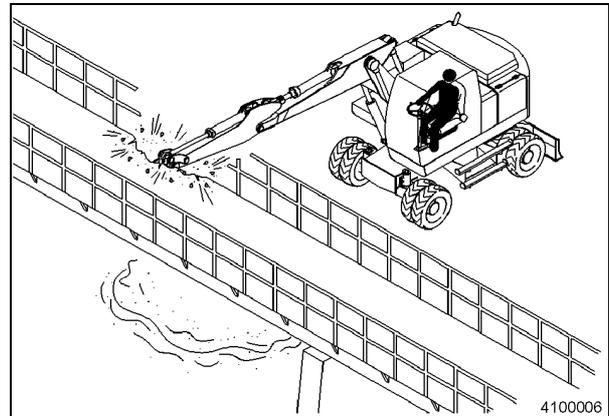


Fig. 7



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