

X 100

Excavator

Service Manual



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MELROE
INGERSOLL-RAND

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bobcat



IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of your machine. The service and repair techniques recommended and described in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed for the purpose.

To prevent injury to workers, the symbol  is used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or could possibly arise, first consider safety, and take the necessary actions to deal with the situation.



SAFETY

GENERAL PRECAUTIONS

Mistakes in operation are extremely dangerous. Read the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions given on the decals which are on the machine.
2. When carrying out any operation, wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.

Wear safety glasses when using tools.
3. If welding repairs are needed, have a trained, experienced welder carry out the work. When welding wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
4. When doing any operation with two or more workers, agree on the operating procedure before starting. Inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.

6. Determine a place in the workshop to keep tools and removed parts. Keep the tools and parts in their correct places. Keep the work area clean and make sure that there is no dirt or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding oil or making any repairs, park the machine on hard, level ground, and block the wheels or tracks to prevent the machine from moving.
8. Before starting work, lower blade, ripper, bucket or any other work equipment to the ground. If this is not possible, insert the safety pin or use blocks to prevent the work equipment from falling. In addition, be sure to lock all the control levers and hang warning signs on them.
9. When disassembling or assembling, support the machine with blocks, or jackstands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Use the handrails, ladders or steps when getting on or off the machine. If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.



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to get more information.