# Maxi-Sneaker

## Service Manual

8-35350

CASE

MidWestTech | Case Maxi Sneaker Trencher Service Manual | Publication 8-35350

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# SERVICE MANUAL INTRODUCTION

**This Safety Alert Symbol shows important information about safety in this manual. When you see this symbol, carefully read the information that follows. Understand the possible causes of an injury or death.**

**WARNING:** Before starting the engine, study the operator's manual safety messages. Read all safety signs on the machine. Clear the area of other persons. Learn and practice safe use of the controls before operating.

It is your responsibility to understand and follow the manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator's manuals may be obtained from your Case dealer. D-100-1

**WARNING:** Before starting the engine, make sure all the controls are in the "NEUTRAL" position. Any other method can result in machine movement. 100-2

**CAUTION:** Keep alert. Permit only authorized persons in the work area. Make sure you know the location of all persons in the work area. 100-6

**WARNING:** Make sure the work area is clear of all persons and obstructions before operating the machine. 100-7

**WARNING:** Know the location of all the controls before operating the machine. Be especially careful if this is not the machine you normally operate. Correct machine operation can help to prevent accidents. 100-8

**WARNING:** Use the correct safety equipment. Do not use loose clothing. Get extra safety equipment as required. Hard hat, safety shoes, ear protectors, reflective clothing, safety goggles, and heavy gloves can be required. Failure to use the correct equipment can cause personal injury. 100-21

**CAUTION:** When servicing the machine, use safety glasses to help prevent eye injury. 100-22

**WARNING:** Operate this machine from the operator's seat only. Any other position can result in personal injury. 100-26

**WARNING:** Do not permit other persons on the machine. Other persons on the machine can cause an accident. 100-27

**CAUTION:** When removing hardened pins, ALWAYS use a hammer with a brass or bronze head or use a brass or bronze driver and a steel head hammer. 101-20

**CAUTION:** Make sure the shop floor, operator's area and steps are clear of oil, grease, water and tools. Failure to keep these areas clean can cause an accident. 101-21

**CAUTION:** Use floor (service) jacks or chain hoists to raise the wheels off the floor. ALWAYS install safety stands to support the machine during service or repair. 101-22

**CAUTION:** Some components of the machine are very heavy. Use the correct lifting equipment or additional help according to the service manual. 101-23

**WARNING:** Make sure that before you work under the machine you:
1. Put the machine on a level surface.
2. Engage the parking brake.
3. Stop the engine.

Failure to follow the above procedure can result in personal injury. 100-29

**WARNING:** After making repairs, install all protective shields and guards. Failure to install shields and guards can cause personal injury. 100-30

**CAUTION:** Always lower all the attachments to the ground or put blocks under the attachments before any maintenance or adjustment is made. 100-31



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CAUTION: Stop the engine before maintenance is done on the machine unless the operator's or service manual gives other instructions. 100-32

CAUTION: Do not try to make repairs unless you understand correct maintenance procedures. Get a service manual or call your Case dealer. Correct maintenance procedures can help prevent accidents. 100-33

CAUTION: The cooling system in this machine has high pressure. Remove the radiator cap slowly and only when the engine is cool or severe burns can result. 100-36

CAUTION: Remove your metal rings or bands before servicing the electrical system. You can make a short circuit that can cause personal injury. 100-37

CAUTION: Know the electrical circuit before connecting or disconnecting an electrical wire or component. A wrong connection can cause an injury or damage to the electrical system. 100-38

DANGER: Exhaust fumes can cause death. If it is necessary to start an engine in a closed area, make sure there is good ventilation. 100-40

WARNING: Do not put fuel into the machine if:
1. The engine is running.
2. You are near a flame.
3. You have a burning cigarette, cigar, etc.

A fire can result and cause serious injury. 100-41

WARNING: Keep fire, cigarettes, etc., away from the area when servicing is done to the fuel system. An explosion and a fire can result. 100-42

WARNING: Do not use ether as a starting aid to the engine preheater. Using ether can cause an explosion and fire. 100-43A

WARNING: When checking or testing the hydraulic system, follow the procedure exactly. Do not change the procedure as serious injury or machine damage can result. 101-18

WARNING: Use caution when disconnecting hydraulic lines. Remove the pressure before working on the hydraulic system. Disconnecting fittings that are under high pressure can cause serious injury. 100-44

CAUTION: The hydraulic system operates at a very high pressure. A very small hydraulic oil leak can go through your skin and cause serious injury. When checking for leaks, do not use your hands. Use a piece of wood or paper.

Before disconnecting the hydraulic lines or components, make sure there is no pressure in the circuit. When connecting the hydraulic lines or components, make sure the connections are tight.

If you receive an injury by coming in contact with the hydraulic oil, get a doctor immediately. 100-45

WARNING: Articulating joint! Stay clear of this area. Machine movement can cause personal injury. 100-48

CAUTION: When disconnecting battery cables from a battery, disconnect the (-) negative cable first. When connecting battery cables to a battery, connect the (-) negative cable last. This procedure can prevent an explosion caused by a spark. 101-15

WARNING: Do not connect a booster battery to a frozen battery. This procedure can cause an explosion. 101-16

CAUTION: The battery in this machine is equipped with nonspill battery caps. Make sure that a replacement battery has nonspill battery caps. Do not operate this machine unless the battery is equipped with nonspill battery caps. Make sure the nonspill battery caps work correctly. 100-50



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WARNING: Always use a voltmeter or a hydrometer to check the charge of a battery. Do not check the battery charge by putting a metal object across the battery posts. Using a metal object to check the battery charge can cause an explosion. 100-51

POISON: Batteries contain sulphuric acid which can cause severe burns. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL, flush with water; INTERNAL, drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call a physisian immediately; EYES, flush with water for 15 minutes and get prompt medical attention. Keep out of reach of children. 100-53

DANGER: Batteries make hydrogen gas. Hydrogen gas can cause an explosion. Keep sparks, flame, and cigarettes away. Make sure there is good ventilation when charging a battery. Always use safety glasses when working near a battery. 100-55

WARNING: Always let a frozen battery thaw at room temperature. Do not try to charge a frozen battery. Charging a frozen battery can cause an explosion. 100-57

WARNING: When necessary to work in the area of the fan belt with the engine running, do not wear loose clothing. Be very careful to prevent serious injury. 101-17

WARNING: Do not try to make any adjustment or repairs to the belts or chains while the engine is running. Personal injury can result. 100-58

WARNING: Special hardware is used to install the ROPS. Replace parts only with those parts shown in the Case Parts Catalog. 100-66

WARNING: Do not remove the ROPS except for service. Install the ROPS correctly before operating the machine. 100-67

WARNING: Do not make modifications to the ROPS. Modifications can make the ROPS weak. Do not weld, drill, cut or add attachments to the ROPS. Replace the ROPS if the machine has rolled over or if the ROPS has damage. Do not try to make repairs to the ROPS. 100-68

WARNING: The ROPS label has a space that shows "Maximum Gross Vehicle Weight." This is the maximum weight of your machine. Do not add attachments that will cause the total weight of the machine to be more than the weight shown on the ROPS label. 100-69

WARNING: Fasten your seat belt. When operating a machine equipped with a ROPS, always fasten your seat belt before starting the engine. D-100-70

CAUTION: Make sure the seat belt is not twisted or can be cut by the parts of the seat or machine. 100-71

CAUTION: Make sure maintenance on the seat belt is done according to the instructions in the operator's manual. Failure of the seat belt can cause an injury if an accident occurs. 100-72

WARNING: Do not remove the grease fitting from the boom before the pressure has been released. Personal injury can result. Always decrease the pressure by loosening the plug on the opposite side of the boom. 100-83

WARNING: Personnel must be clear of digging chain area when chain is running.

Persons must be a minimum of 1.5 m (5.0 ft.) distance from the digging chain when the chain is moving. Contact with the moving digging chain will cause personal injury. D-100-84

CAUTION: Install the transport lock pin in the direct burial plow when the plow is not in use. 100-87

WARNING: Rotating machine parts. Keep clear to prevent an injury. Do not use loose clothing. 100-87



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