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PREVIEW - YOUFIXTHIS

⚠ SAFETY RULES ⚠

Most accidents involving machine operation and maintenance can be avoided by following basic rules and precautions. Read and understand all the safety messages in this manual, the EMI Safety Manual, and the safety decals on the machine before you operate or service the machine. See your Authorized Case dealer if you have questions.



CD00E001

1. OPERATOR'S MANUAL STORAGE

Safety messages in this section point out situations which can be encountered during the normal operation and maintenance of your machine. These safety messages also give possible ways of dealing with these conditions.

Additional safety messages appear in the manual to indicate specific safety hazards.

READ THIS MANUAL COMPLETELY and make sure you understand the characteristics of speed, stability, steering, and operation of this machine.

Do not remove this manual or the safety manual from this machine. See your Case dealer for additional manuals. Also see the inside of the rear cover of this manual for detailed information for ordering manuals.

The safety information given in this manual does not replace safety codes, insurance regulations, or federal, state/provincial, or local laws. Make sure your machine has the correct equipment according to these rules or laws.

IMPORTANT: *The safety messages in this section point out situations which can happen during the normal operation and maintenance of your machine. These safety messages also give possible ways of dealing with these conditions.*

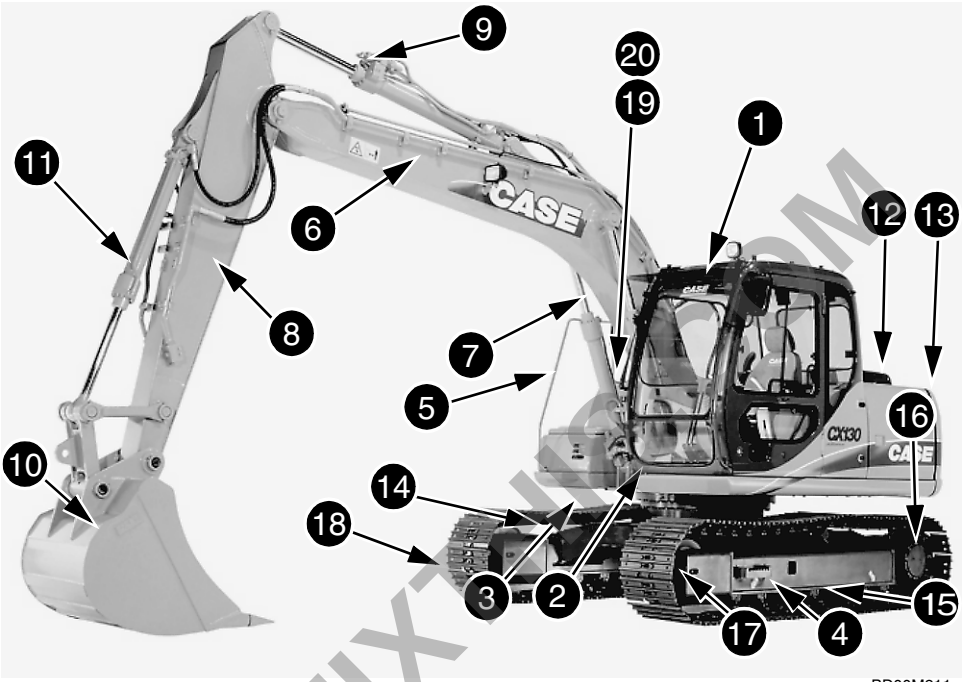
Additional safety messages are used in the text of the manual to show specific safety hazards.

⚠ **WARNING:** *This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.*

M171B

PREVIEW - YOUFIXTHIS

MACHINE COMPONENTS



BD00M211

Key to main components

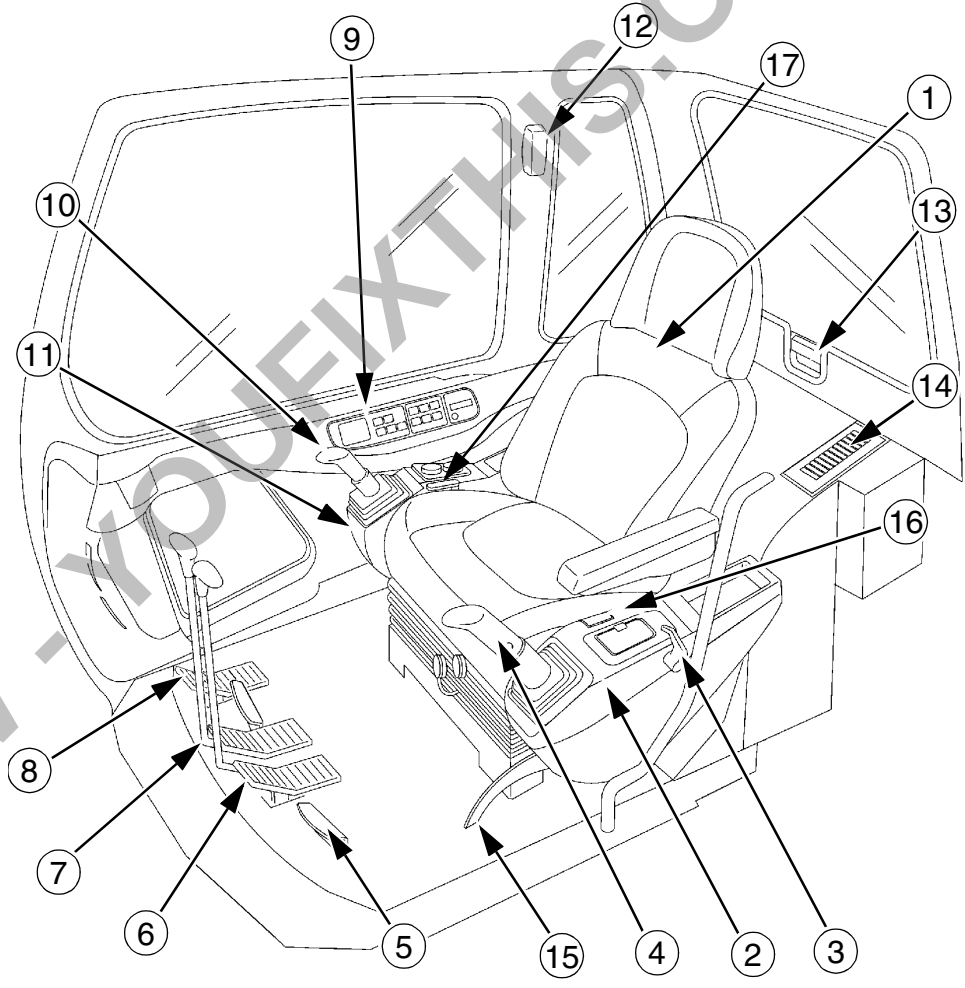
1 Cab/Operator's compartment
2 Upperstructure
3 Undercarriage
4 Steps
5 Access handles
6 Boom
7 Boom cylinders
8 Arm
9 Arm Cylinder
10 Backhoe bucket
11 Backhoe bucket cylinder
12 Engine compartment
13 Counterweight
14 Upper Rollers
15 Lower Rollers
16 Travel reduction gears
17 Idler wheels
18 Tracks
19 Hydraulic reservoir
20 Fuel Tank

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OPERATOR'S COMPARTMENT CONTROLS

WARNING: *Before starting the engine, make sure that you are fully aware of the location of and the function of each control. Incorrect operation of the controls can cause serious injuries.*

LOCATION OF CONTROLS AND ASSOCIATED COMPONENTS



CS00E501

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1. CONTROL ARM TILT ADJUSTMENT AND FUNCTION CANCELLATION LEVER - This lever makes it possible for the operator to adjust the tilt angle of the control arm to suit his convenience. Raise the lever to the right and hold it in this position. tilt the control arm to the required position and then release the lever. This lever also makes it possible to raise the control arm completely, so as to cancel all machine functions.
2. FUNCTION CANCELLATION LEVER - This lever makes it possible for the operator to cancel the machine functions without having to raise the control arm. It is also used to operate the safety bar (3). See “Function cancellation lever and safety bar”.
3. SAFETY BAR - The purpose of this bar is to prevent the operator leaving the operator’s compartment without first raising the function cancellation lever (2). See “Function cancellation lever and safety bar”.
4. HORN - To operate the horn, press the tip of the left-hand control lever.

IMPORTANT: Always sound the horn before operating the machine.

5. ETHER COLD START AID SWITCH- This switch injects ether into the engine to aid starting during cold weather.

IMPORTANT: Before undertaking any load handling operations, place the switch is “ON” position.

6. TRAVEL ALARM ON/OFF SWITCH - In the “ON” position the travel alarm will sound continuously when traveling. In the “OFF” position the travel alarm will discontinue after 10 seconds of travel.
7. ASH TRAY

PREVIEW - YOUFIXTHIS

OPERATING INSTRUCTIONS

BEFORE OPERATING THE MACHINE

> **WARNING:** *Do not attempt to operate this machine unless you have first read and perfectly understood the safety messages and instructions appearing in this manual.*

Before operating this machine, be sure to do the following :

- Check the level of all fluids (engine oil, hydraulic fluid and coolant) and make sure that the fluids and lubricants are suitable for prevailing conditions. See “Fluids and Lubricants” in the “Lubrication/Filters/Fluids” Section and “Operating the machine in cold weather”.
- Carry out the daily maintenance operations. See the “Servicing Intervals” Section.
- Inspect the machine, look for any signs of leakage and check the hoses. Tighten or replace as necessary. See the “Maintenance/Adjustments” Section.
- Check the track assemblies. See “Tracks” in the “Maintenance/Adjustments” Section.
- Before undertaking any travel or working operations during hours of darkness, make sure the lighting and signalling equipment is fully operative.
- Clean the steps and access handles. Grease, oil, mud or (in winter) ice on the steps and access handles can causes accidents. Make sure they are kept clean at all times.
- Clean or replace any decals which are illegible. See “Decals” in the “Safety/ Decals/Hand Signals” Section.
- Make sure all hoods, side doors and lower panels are properly closed.
- Secure the cab door in either fully closed or fully opened position.
- Remove any obstructions which hinder visibility. Clean the windshield, the rear view mirrors and the windows.
- Check that no tools or other items have been left on the machine (be it on the undercarriage or the upperstructure) or in the operator’s compartment.
- Work out a convenient means of escape from the machine (emergency exit via the windshield, the rear window glass) in the event of the cab door being jammed or the machine turning over.
- Make sure nobody is on or under the machine. The operator must be alone on the machine.
- Make sure nobody is standing in the machine working area.
- Find out about current safety measures in use on the work site.

PREVIEW - YOUFIXTHIS

TRANSPORTING THE MACHINE

BY RAIL

Since transport by rail is subject to special regulations, consult an approved organization.

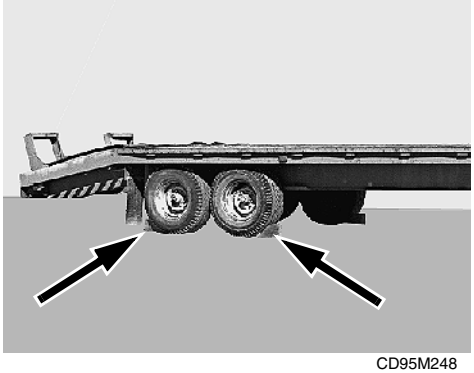
ON A TRAILER

> **WARNING:** *This machine could slip and fall from a trailer or ramp and cause serious injury. Make sure the trailer and ramps are clean. The machine should be in line with the trailer before being loaded.*

Make sure you know the safety rules and regulations before transporting the machine. Make sure both trailer and machine are fitted with the right safety equipment.

LOADING

STEP 1



CD95M248

Place a block behind the trailer wheels. Install the trailer side extensions (if fitted).

STEP 2



CD00E010

Make sure the upperstructure swing lock has not been applied.

PREVIEW - YOU

SPECIFICATIONS

ENGINE

Make and model ..... CDC-Case, 4TA-390
Firing order 1-3-4-2
Air induction ..... Turbocharged
Number of cylinders 4
Bore/stroke ..... 102 x 120 mm (4.02 x 4.72 inches)
Displacement ..... 3.91 litres (239 cu in)
SAE gross, horsepower - rated ..... 77 kW at 2300 r/min (110 at 2200 rpm)
Engine speeds
- Full throttle - full load ..... 2200 rpm
- Idle speed ..... 1000 rpm

Cooling
- Radiator cap ..... 50 kPa, 0.5 bar (7 psi)
- Thermostat ..... 83 to 95 C (181 to 203 F)

Electrical System
- Batteries ..... (2) 12 volt, 120 ampere
- System voltage ..... 24 volts

Valve clearance - engine cold
- Intake valves ..... 0.254 mm (0.010 inch)
- Exhaust valves ..... 0.508 mm (0.020 inch)

HYDRAULIC SYSTEM

CX130
Hydraulic reservoir capacity ..... 73 L (19 gal)
Total hydraulic system capacity ..... 123 L (32 gal)

CX160
Hydraulic reservoir capacity ..... 73 L (19 gal)
Total hydraulic system capacity ..... 148 L (39 gal)

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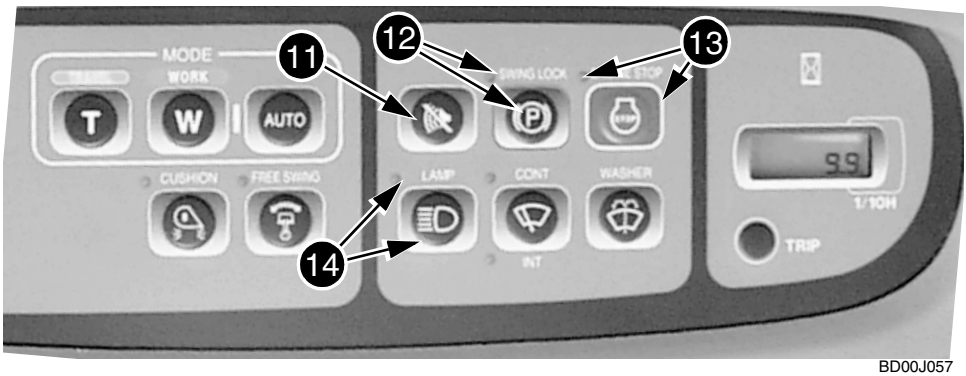
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SYSTEMS DISPLAY AND CONTROL PANEL



BD00J057

11. AUDIBLE ALARM DEVICE CUT-OUT CONTROL - Press this control to turn off the audible alarm device. If the audible alarm device sounds, immediately read the message appearing on the systems display panel screen (10). When the audible alarm device is not working, this control also has another function. Press the control to test the lamps and indicators on the systems display panel for correct operation.

12. UPPERSTRUCTURE SWING LOCKING SWITCH - This switch is used to lock the swing function. When the switch is pressed, the upperstructure swing function will be locked and the “Upperstructure swing lock” lamp comes on. Press the switch once more to unlock the swing function. The swing function becomes operational and the lamp goes out.

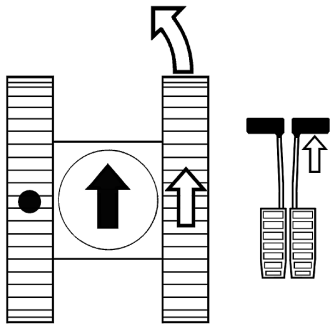
13. EMERGENCY SHUT DOWN SWITCH - This switch is used to shut down the engine in a case of emergency or if it is not possible to stop the engine using the starter switch key. When this switch is pressed, the engine stops, the audible alarm device sounds and the indicator lamp in the switch comes on. To start the engine again, press the switch once more and then turn the starter switch key to start the engine.

IMPORTANT: *This switch should only be used in case of an emergency. Do not use it on a day-to-day basis.*

14. WORKING LIGHTS - This switch is used to operate the working lights. Press the switch for the indicator lamp and the working lights to come on. Press the switch once more to turn them off.

PREVIEW - YOUFIXTHIS

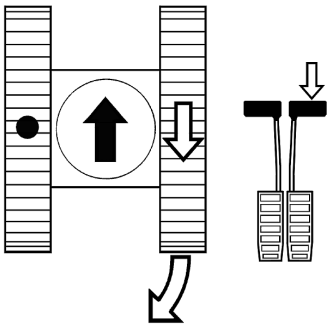
Turning to the left (forwards)



CS98M548

Simply press the right-hand pedal (or push the right-hand lever) forwards.

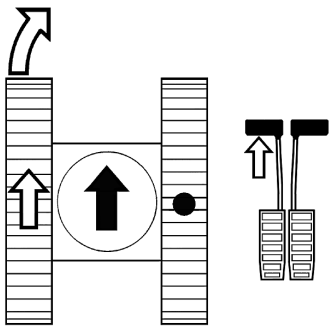
Turning to the left (in reverse)



CS98M549

Simply press the right-hand pedal (or push the right-hand lever) rearwards.

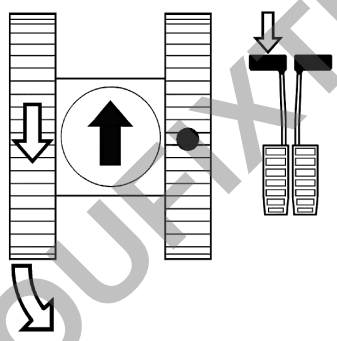
Turning to the right (forwards)



CS98M551

Simply press the left-hand pedal (or push the left-hand lever) forwards.

Turning to the right (in reverse)



CS98M550

Simply press the left-hand pedal (or push the left-hand lever) rearwards.

PREVIEW - YOUFIXTHIS

CHECKING THE HYDRAULIC SYSTEM LINES

Make sure there are no leaks from the hydraulic system hoses, pipes, plugs, connections and fittings and check that all nuts and screws are correctly tightened. In the event of problems, repair, replace or tighten the component concerned.

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