CX160C
Crawler Excavator

OPERATOR'S MANUAL

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CASE CONSTRUCTION

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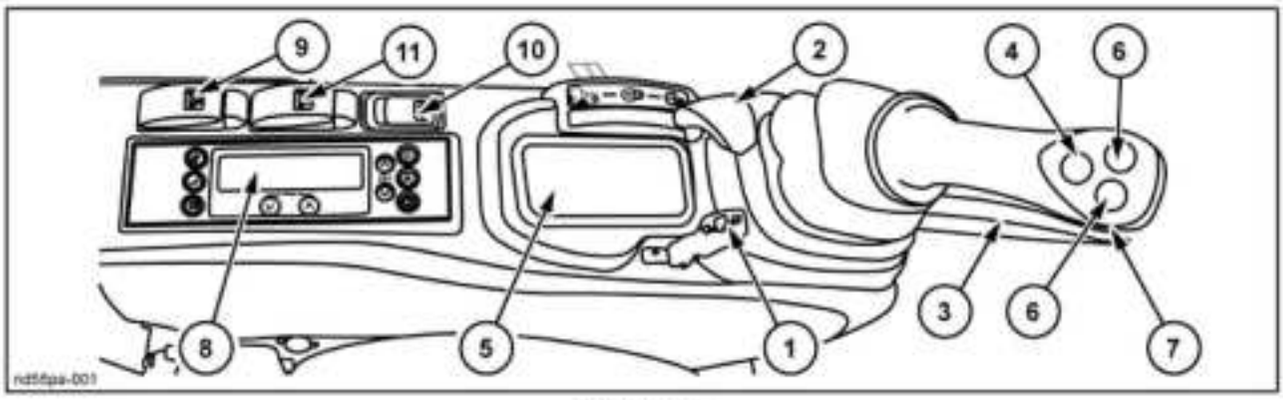
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LEFT-HAND SIDE CONTROLS

Left-hand control arm



1. Arm angle adjustment lever
   This lever is used to adjust the control arm tilt in four different positions to suit the operator. Pull the lever and hold it in this position, select the required position and then release the lever.
   When the lever is lowered, the control arm is automatically placed in the selected position.

   ATTENTION: *The adjustment of the control arm must be done with the engine stopped.*

2. Function cancellation lever and lifting the control arm
   This lever is used to cancel the functions without having to raise the control arm. It is also used to operate the safety bar **(3)**. (Refer to page **3-53**). This lever also makes it possible to raise the control arm completely, which also cancels all machine functions.

3. Safety bar
   The purpose of this safety bar is to prevent the operator leaving the operator's compartment without first operating the function cancellation lever **(2)**.
   (Refer to page **3-53**).

4. Horn
   To sound the horn, press the end of the left-hand control lever.

   NOTICE: *Always sound the horn before operating the machine.*

5. Storage tray

6. Option control (if equipped)

7. Cab radio mute control
   Located below the control lever, this control is used to mute the sound without having to operate the cab radio.
   Press and release the control to mute the sound.
   Press once again on the control and release, the sound is restored.

   NOTE: *With the engine stopped, if the sound is muted, it will still be active when the engine is restarted.*

8. Heating, ventilation or air conditioning control (Refer to page **3-49**)

9. Emergency shut down switch
   This control enables the engine to be shut down in emergency or when it is not possible to shut it down by means of the ignition key.
   Press on the front of the control, the engine stops, the audible warning device sounds, the control indicator lamp comes on and the message "Engine stop" is displayed, refer to page **3-17**.
   To start the engine again, press on the back of the control once more and then turn the ignition key to start the engine.

   NOTICE: *This switch should only be used in case of an emergency.*

10. Quick coupler locking and unlocking control switch (optional)
    (Refer to page **3-55**)

11. Free swing switch (optional)

The switch to choose the swing stopping condition.

- When the engine is started, it is in the "Off" position.
- When selected there in no swing position.

NOTE: *When it is "On" and used on a slope, the swing becomes hard to stop. (The swing parking brake does not work automatically). If the switch is turned "On" when on a slope, the machine may start to move because the swing brake is released.*

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6 - MAINTENANCE

GENERAL INFORMATION

Basic instructions

Servicing instructions

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

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⚠ WARNING

Improper operation or service of this machine can result in an accident.
Raised equipment or machine movement without an operator can cause serious injury. Always do the following before performing any maintenance:
Park the machine on flat, level ground.
Lower the attachment to the ground.
Shut down the engine and remove the ignition key.
Lock the tracks.
Failure to comply could result in death or serious injury.

W0644D

NOTICE: *Be sure all the service operations in this section are carried out punctually at the intervals given, in order to ensure optimum performance levels and maximum safety when using the machine.*

- Respect the maintenance intervals by checking the hourmeter every day. Before starting maintenance, park the machine on flat, firm ground, away from any obstacles, with the arm retracted and the bucket on the ground. Unless otherwise specified, all maintenance operations must be carried out with the engine stopped and the key removed from the ignition key. It is preferable to wait for all circuits to cool down before starting work.
- Clean the grease fittings before lubrication. Clean around plugs and filler holes before adding fluid. No dust or dirt must enter the components or the circuits. Wear suitable clothing and remember to use the necessary safety equipment.
- When carrying out service work on the machine, place a "Do not operate" tag on the instrument panel. Never climb down from the operator's compartment leaving the engine running.
- Remove the necessary lower panels during maintenance of certain machine components.

⚠ WARNING

Moving parts!
Make sure the lower panels are properly closed before driving the machine.
Failure to comply could result in death or serious injury.

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Any modification to this machine without prior authorization could cause serious injury. Do not make any modifications without authorization. Consult your CASE CONSTRUCTION Dealer.

NOTICE: *If you use your machine in particularly harsh conditions (dusty or corrosive atmosphere, etc.), the servicing intervals should be reduced accordingly.*

NOTICE: *Take particular care to replace all filters regularly. Clean filters mean longer engine running life.*

ATTENTION: *Oil and fluid should not be thrown on the ground. They must be stored and removed by a company which is responsible for their recycling or their disposal.*

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8 - SPECIFICATIONS

Machine specifications

Engine

High pressure common rail engine, in conformity, applicable to low fumes emission.

Make and type	ISUZU AM-4JJ1X
Common rail, turbocharger with air cooled intercooler, DPD (Diesel Particulate Diffuser) system, fuel cooler	yes
Injection	electric control
Number of cylinders	4
Bore/stroke	**95.4 mm (3.8 in)** x **104.9 mm (4.1 in)**
Displacement	**2999 cm³/rev (183.0 in³/rev)**
Maximum displacement	**391 N·m (288.4 lb ft)** at **1800 RPM**
Cooling	by water
Battery starting	2 x **12 V 72 A·h**
Voltage	**24 V**
Alternator	**50 A**
Starter	**24 V 4.0 kW**

Working conditions

Speed	**2200 RPM**
Power	**92.2 kW (125.4 Hp)** at **2200 RPM**
Engine oil capacity (with remote oil filter)	**17 l (4.5 US gal)**
Fuel tank capacity	**300 l (79.3 US gal)**
Fuel filler pump	if equipped
Engine/pump assembly mounted on flexible mountings	
Filtration in dusty conditions	
Electronically controlled governor	

Hydraulic system

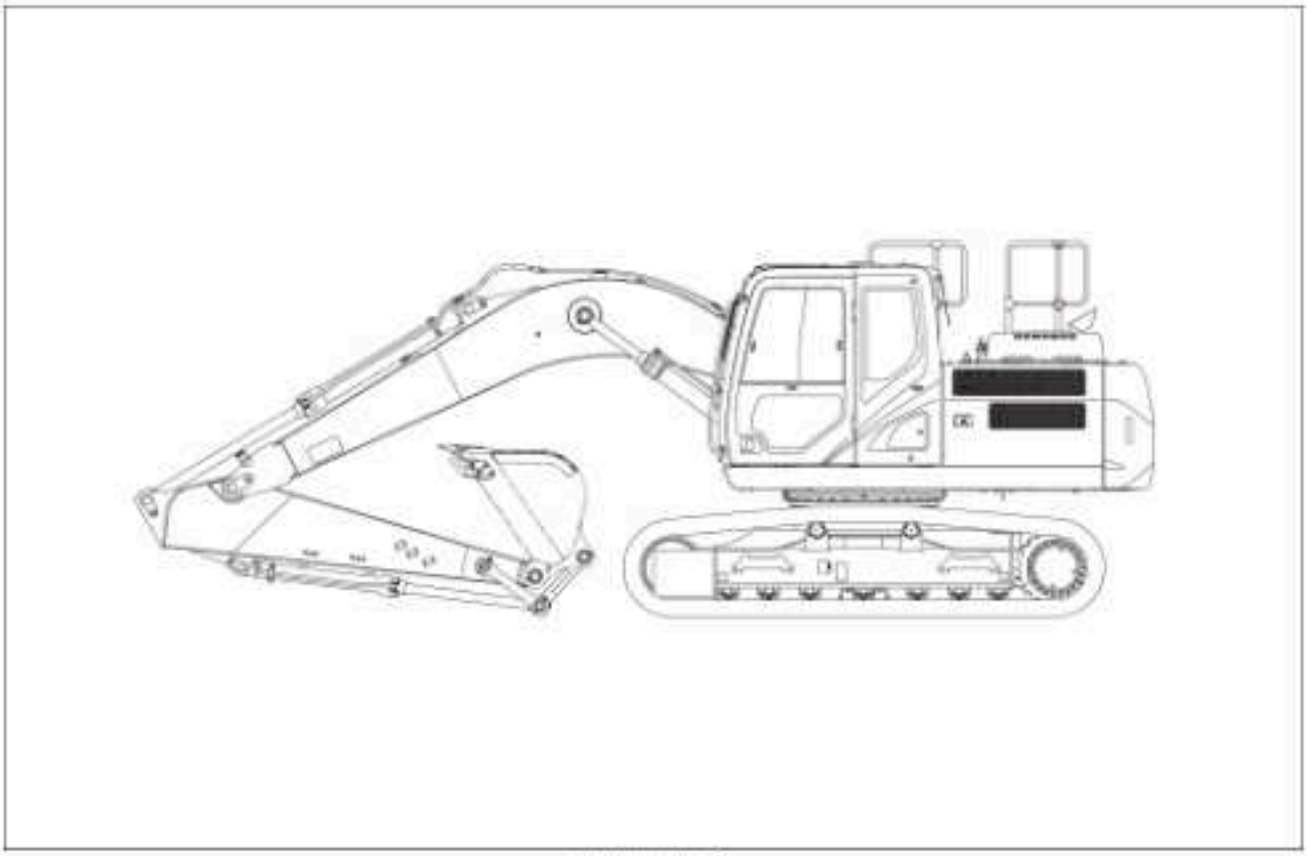
2 variable displacement axial piston pumps with regulating system. Main pump max flow (at **2200 RPM**)	2 x **142 l/min (37.5 US gpm)**
Fixed flow pump (pilot circuit).Max. flow:	**20 l/min (5.3 US gpm)**
Working pressure.Attachment/power boost	**343 - 363 bar (4973.5 - 5263.5 psi)**
Oil cooler with air cooling from engine	
High pressure multispiral hoses minimum safety factor	2 to 4 times the working pressure
Self-lubricating hydraulic swivel	
Hydraulic reservoir capacity	**90 l (23.8 US gal)**
Total hydraulic system capacity	**165 l (43.6 US gal)**

Control valve

Four control valve sections for right-hand travel, boom/bucket and dipper acceleration.
Five control valve sections for left-hand travel, swing, dipper, auxiliary attachment and boom acceleration.
Boom/dipper load holding valves.

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CX160C hydraulic crawler excavator with handrails (optional)



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When ordering parts, obtaining information or assistance, always supply your CASE CONSTRUCTION Dealer with the type and serial number of your machine or accessories.

Write the following in the spaces below: the type, serial number and year of manufacture of your machine, accessories and the serial numbers of the various hydraulic and mechanical components.

Machine

(1) Type / Model and Category:
(Hydraulic Excavator) CX160C.

(2) Product identification number:



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