CASE CONSTRUCTION

SERVICE MANUAL

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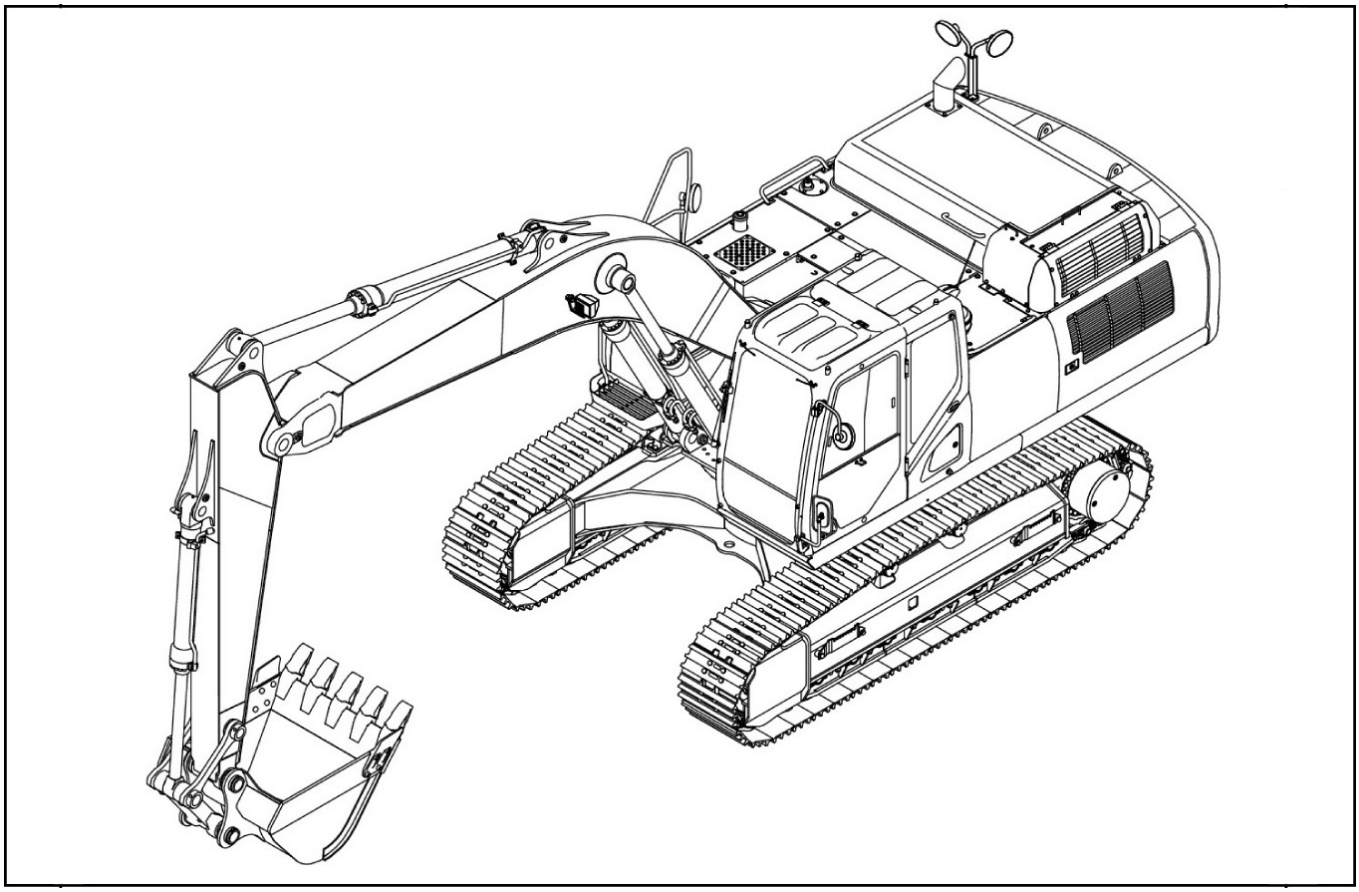

CX350C - CX370C Tier 4
Crawler Excavator

Issue date May 2011

CRAWLER EXCAVATORS
CX350C - CX370C TIER 4
SERVICE MANUAL

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DIVISION/SECTION SECTION N°

NOTE: CNH France S.A. Company reserves the right to make changes in the specification and design of the machine without prior notice and without incurring any obligation to modify units previously sold.

The description of the models shown in this manual has been made in accordance with the technical specifications known as of the date of design of this document.

All data given in this manual is subject to production variations. Dimensions and weights are provided with approximate values and the machine fitting shown in the illustrations may not correspond with standard models. For precise information on specific machine models and versions, please contact your CASE dealer.

Section

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Safety, general information and standard torque data

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CONTENTS

GENERAL INFORMATION

CLEANING
Clean all metal parts except bearings, in a suitable cleaning solvent or by steam cleaning.
Do not use caustic soda for steam cleaning.
After cleaning, dry and put oil on all parts.
Clean oil passages with compressed air.
Clean bearings in a suitable cleaning solvent,
dry the bearings completely and put oil on the bearings.
INSPECTION
Check all parts when the parts are disassembled.
Replace all parts that have wear or damage.
Small scoring or grooves can be removed with a hone or crocus cloth.
Complete a visual inspection for indications of wear, pitting and the replacement of parts necessary to prevent early failures.
BEARINGS
Check bearings for easy action.
If bearings have a loose fit or rough action replace the bearing.
Wash bearings with a suitable cleaning solvent and permit to air dry.
DO NOT DRY BEARINGS WITH COMPRESSED AIR.
NEEDLE BEARINGS
Before you press needle bearings in a bore always remove any metal protrusions in the bore or edge of the bore.
Before you press bearings into position put petroleum jelly on the inside and outside diameter of the bearings.
GEARS
Check all gears for wear and damage.
Replace gears that have wear or damage.
Oil seals, O-rings and gaskets.
Always install new oil seals, O-rings and gaskets.
Put petroleum jelly on seals and O-rings.
SHAFTS
Check all shafts that have wear or damage.
Check the bearing and oil seal surfaces of the shafts for damage.
SERVICE PARTS
Always install genuine Case service parts.
When ordering refer to the
Parts Catalogue for the correct part number of the genuine Case replacement items.
Failures due to the use of other than genuine Case replacement parts are not covered by warranty.
LUBRICATION
Only use the oils and lubricants specified in the Operator’s or Service Manuals.
Failures due to the use of non-specified oils and lubricants are not covered by warranty.

Safety

Warning	This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.
Put the warning tag shown below on the key for the key switch when servicing or repairing the machine.
One warning tag is supplied with each machine.
Additional tags are available from your service parts supplier.

⚠ WARNING

Read the operator's manual to familiarize yourself with the correct control functions.

⚠ WARNING

Operate the machine and equipment controls from the seat position only.
Any other method could result in serious injury.

⚠ WARNING

This is a one man machine, no riders allowed.

⚠ WARNING

Before starting engine, study Operator’s Manual safety messages.
Read all safety signs on machine.
Clear the area of other persons.
Learn and practice safe use of controls before operating.
It is your responsibility to understand and follow manufacturers instructions on machine operation, service and to observe pertinent laws and regulations.
Operator's and Service Manuals may be obtained from your CASE dealer.

⚠ WARNING

If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured.
Always wear clothing that will not catch on objects.
Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.

⚠ WARNING

When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.

⚠ WARNING

When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.

⚠ WARNING

When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.

⚠ WARNING

Use insulated gloves or mittens when working with hot parts.

⚠ **WARNING**

Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.

⚠ **WARNING**

Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection.
If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately.
Maintain all hoses and tubes in good condition.
Make sure all connections are tight.
Make a replacement of any tube or hose that is damaged or thought to be damaged.
DO NOT use your hand to check for leaks, use a piece of cardboard or wood.

⚠ **WARNING**

When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.

⚠ **WARNING**

When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors).

⚠ **WARNING**

Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor.
Always block machine in place with suitable safety stands.

⚠ **WARNING**

When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc.
Use an oil absorbing material and/or shop cloths as required.
Use safe practices at all times.

⚠ **WARNING**

Some components of this machine are very heavy.
Use suitable lifting equipment or additional help as instructed in this Service Manual.

⚠ **WARNING**

Engine exhaust fumes can cause death.
If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension.
Open the doors and get outside air into the area.

⚠ **WARNING**

When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine.
To prevent the battery electrolyte from freezing, try to keep the battery at full charge.
If you do not follow these instructions, you or others in the area can be injured.

ROPS Judgment Method

1. Purpose
   Check against the ROPS judgment criteria to judge whether the machine satisfies the ROPS criteria or not.
   The weight and boom of the machine greatly effects whether the ROPS judgment criteria is satisfied or not.
   The ROPS test assumes that the weight being used is the weight of the machine when the maximum number of selectable options are mounted (as of 2009).
   However, depending on the derivative machinery or the order details, the weight and boom position may differ from the assumed weight or position.
2. Criteria for judging whether a machine satisfies the ROPS criteria

   1) Weight
      The weight must not be over the weight shown below for each class.
      If the weight is exceeded, there is a danger that the cab could be damaged and the operator could die or sustain a serious injury when the machine falls over.
      If the weight exceeds the stipulated weight, the machine will not satisfy the ROPS criteria.

      - Weight (C series model)
        To satisfy the ROPS criteria, the weight must not be over the indicated weight. (The below weights are the weights indicated on the nameplate within the ROPS cab)

Machine body total weight	**Class**
31000 kg or less	CX250C CX250CLR CX300C
40000 kg or less	CX370C
50000 kg or less	CX470C

        * The ROPS test assumes that the CX470C has a cage guard (alone).

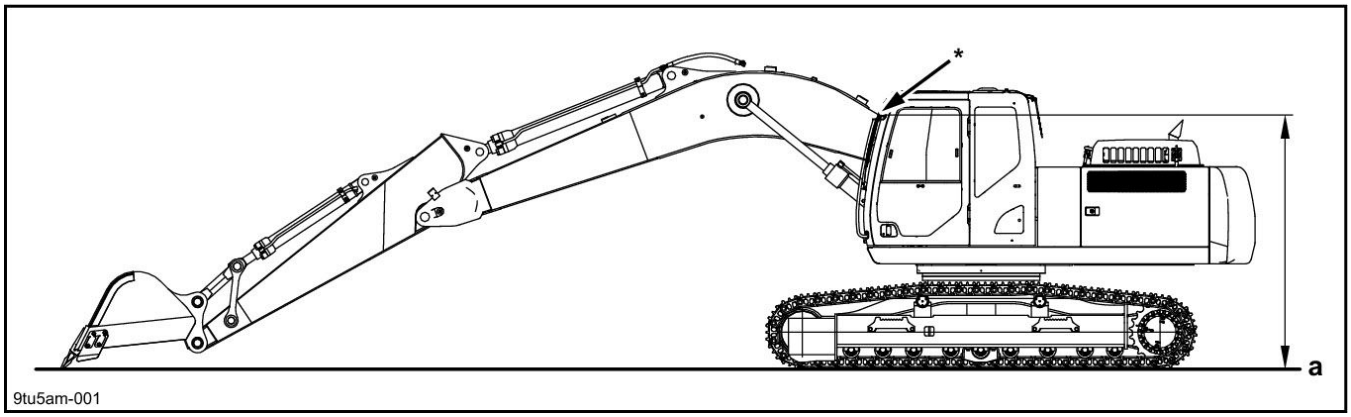
      - Weight (B series model)
        To satisfy the ROPS criteria, the weight must not be over the indicated weight. (The below weights are the weights indicated on the nameplate within the ROPS cab)

Machine body total weight	**Class**
25000 kg or less	CX130B CX160B CX180B CX210B CX230B

2) Boom position

⚠ WARNING

- **If the machine has been modified so that the boom position has been lowered, the machine will not satisfy the ROPS criteria.**
- **It is necessary to consult with our company if it is possible that the boom's position has been lowered by modification.**
- **The extent to which a boom position has moved cannot be determined in the same way for all machines.**



a	Ground point

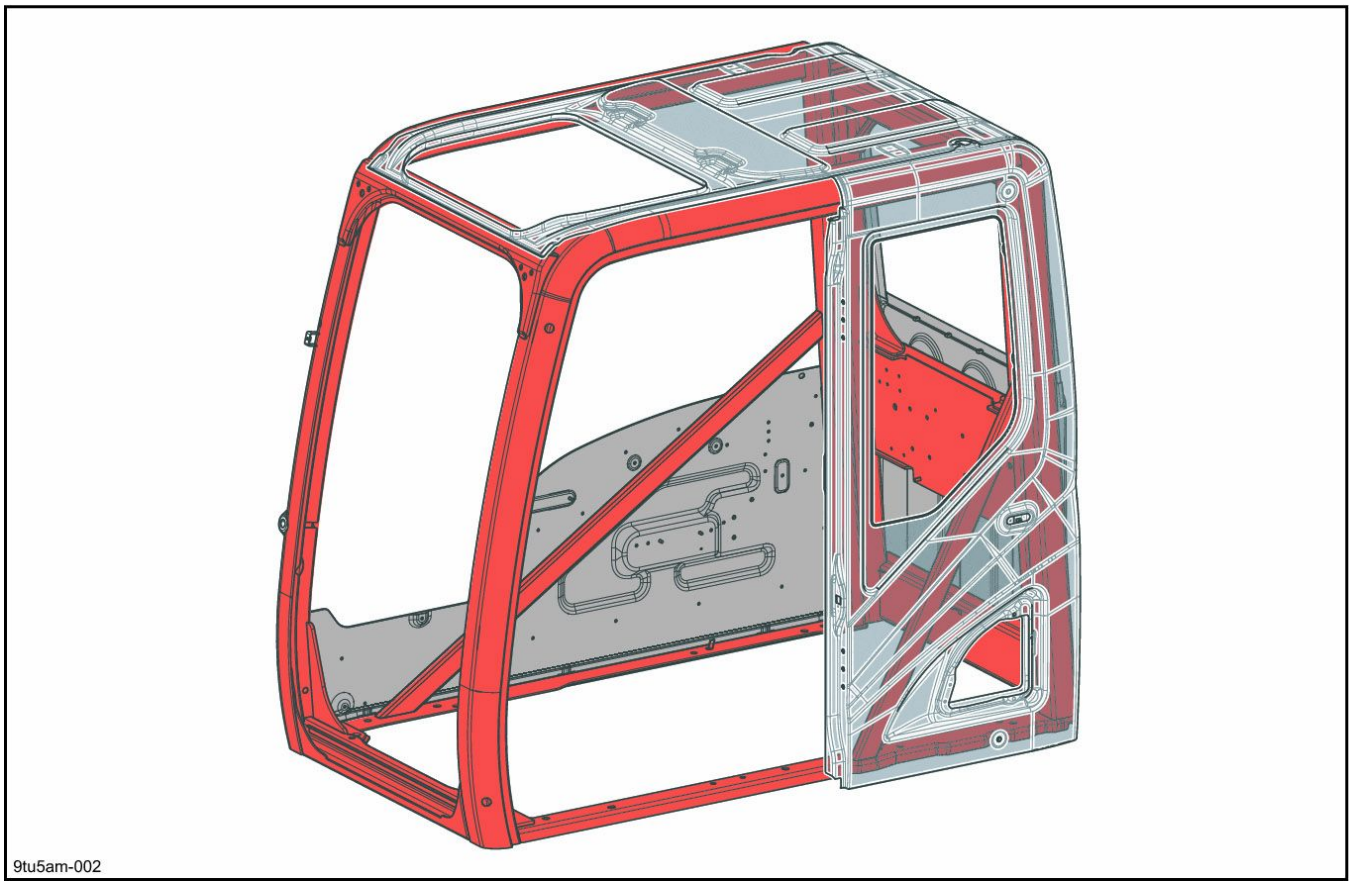
With the tip of the bucket in contact with the ground surface at maximum work radius, if the position (* in the diagram) that overlaps with the cab when viewed from the side is markedly lower than that of a standard machine (standard arm), the machine will not satisfy the ROPS criteria.
Also, with a machine body with a cab mounted that can withstand up to 31 tons, the effect of mounting a 24 ton machine, which is near the restriction weight, and a 21 ton machine to the same cab will not be the same.

3. Prohibited items

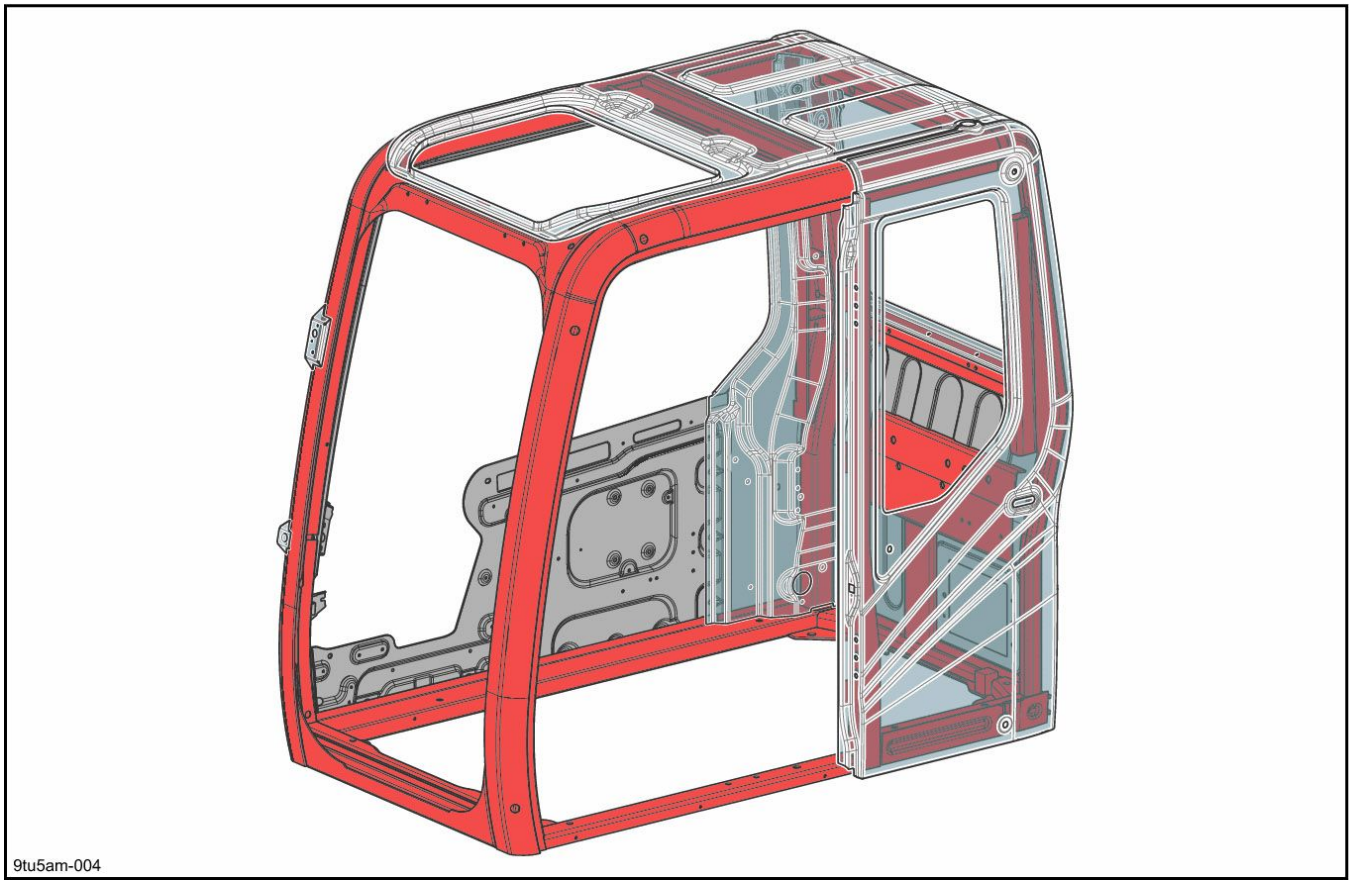
- Modifications that reduce the strength of a platform that has a cab with a ROPS mounted to it. (Actions or modifications that reduce the functionality of the anchoring part at the left-rear of the cab)
- Modifications that effect the strength of the ROPS of a cab.

A forbidden all modifications (red part)	All modifications (grinding, welding, drilling holes, removing, etc.) are prohibited.
Allow under specified conditions (gray part)	Removal of parts is prohibited. Bar welding and making holes (up to diameter 20 mm) by drilling are possible.

[C series Cab]



[B series Cab]

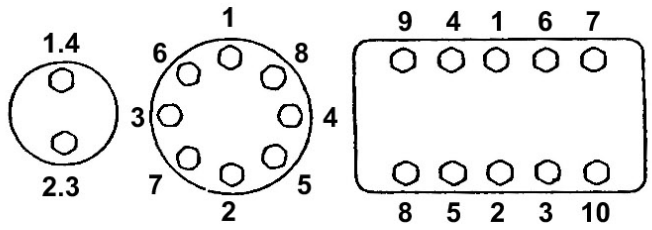


- In general, high cabs do not satisfy the ROPS criteria. (It is necessary to consult with our company to check if the high cab model satisfies the ROPS criteria.)

Standard Torque Data For Cap Screws And Nuts

BOLT AND NUT TIGHTENING

- Tighten alternating between left and right and top and bottom so that uniform tightening force is applied.



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- If Loctite was used on a removed bolt (there is something white sticking to the bolt when it is removed), clean the old Loctite off with cleaning fluid, dry the bolt, then apply 2 - 3 drops of Loctite to the thread section of the bolt.

  Torque table

Bolt nominal diameter (size)			**M6**	**M8**	**M10**	**M12**	**M14**	**M16**	**M18**	**M20**
Hexagon bolt	Wrench	[mm]	10	13	17	19	22	24	27	30
	Tightening torque	[N·m]	6.9	19.6	39.2	58.8	98.1	156.9	196.1	294.2
Hexagon socket head bolt	Wrench	[mm]	5	6	8	10	12	14	14	17
	Tightening torque	[N·m]	8.8	21.6	42.1	78.5	117.7	176.5	245.2	343.2

Section

1002A

Specifications

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CONTENTS

Overall (CX350C)

Main Data

Operating weight	34700 kg
Engine output	198 kW/1900 min^{-1}

Performance

Standard weight	18.0 kN
Swing speed	9.7 min^{-1}
Travel speed	Low speed 3.2 km/h
	High speed 5.4 km/h
Maximum pulling force	264 kN
Grade ability	70 % (35°)
Ground pressure	65 kPa (600 mm grouser shoe)
	57 kPa (700 mm grouser shoe)
	50 kPa (800 mm grouser shoe)
	47 kPa (850 mm grouser shoe)
	45 kPa (900 mm grouser shoe)

Standard weight	18.0 kN
Swing speed	9.7 min^{-1}
Travel speed	Low speed 3.2 km/h
	High speed 5.4 km/h
Maximum pulling force	264 kN
Grade ability	70 % (35°)
Ground pressure	58 kPa (700 mm grouser shoe)
	51 kPa (800 mm grouser shoe)
	48 kPa (850 mm grouser shoe)

Main Unit Dimensions

Main unit length	6010 mm
Main unit width	3200 mm (600 G shoe)
Upper swing body width	3030 mm
Cab width	1000 mm
Main unit height	3160 mm
Swing radius (rear end)	3550 mm
Swing body rear end distance	3520 mm
Swing body rear section bottom height	1210 mm (not including lug height of 36 mm)
Distance between tumblers	4040 mm
Overall track length	4980 mm
Overall track width	3200 mm (600 G shoe)
Distance between tracks	2600 mm
Track shoe width	600 mm (options 700 mm, 800 mm, 850 mm, 900 mm)
Minimum ground clearance	480 mm (to bottom of lower frame) (not including lug height of 36 mm)

Engine

Name	Isuzu 6HK1X diesel engine
Model	4-cycle, water-cooled, overhead camshaft type Common rail system (electronic control), cooled EGR, with turbocharger (variable displacement type), DPD system
Number of cylinders - bore x stroke	6 - D115 mm x 125 mm

Total stroke volume	7.790 L
Maximum torque	1043 N·m/1500 min^{-1}
Starter	24 V 5.0 kW reduction type
Charging generator	24 V 50 A AC type
Battery	12 V 128 Ah/5 HR x 2

Cooling System

Fan type		D850 mm, 6 blades, suction
Radiator		
	Fin type	Wavy
	Fin pitch	1.75 mm
Oil cooler		
	Fin type	Wavy
	Fin pitch	1.75 mm
Intercooler		
	Fin type	Wavy
	Fin pitch	2.5 mm
Fuel cooler		
	Fin type	Wavy
	Fin pitch	2.0 mm

Upper Side Work System

Model		Backhoe Attachment			
Components, dimensions, working dimensions					
	Bucket capacity (reference)	Heaped 1.40 m^3 (Leveled 1.04 m^3)			
	Bucket width	1300 mm			
	Bucket width with side cutter	1440 mm			
	Bucket weight with side cutter	1150 kg			
	Boom length	6450 mm			
	Arm type	Standard (STD/HD) (3.25 m)	Long (4.04 m)	Short (2.63 m)	Ultra-short (2.21 m)
	Arm length	3250 mm	4040 mm	2630 mm	2210 mm
	Bucket radius	1680 mm			
	Bucket wrist angle	173°			
	Maximum digging radius	11170 mm	11900 mm	10670 mm	10200 mm
	Maximum digging radius at ground line	10980 mm	11720 mm	10470 mm	9990 mm
	Maximum digging depth	7340 mm	8140 mm	6730 mm	6300 mm
	Maximum vertical straight wall digging depth	6350 mm	7150 mm	5970 mm	5080 mm
	Maximum digging height	10370 mm	10670 mm	10320 mm	9850 mm
	Maximum dump height	7230 mm	7540 mm	7140 mm	6770 mm
	Minimum swing radius at front	4500 mm	4560 mm	4630 mm	4660 mm
	Height for minimum swing radius at front	8480 mm	8490 mm	8540 mm	8650 mm

Operating Device

Operator's seat		
	Position	Left side
	Structure	Adjustable forward and back and up and down, reclining mechanism, with seat suspension
Cab		Sealed steel type, all reinforced glass, ROPS, with sunroof
Levers and pedals		
	For travel use	Lever and pedal type (hydraulic pilot type) x 2

	For operating machine use		Lever type (hydraulic pilot type) x 2
Instruments and switches			
Work mode switchover			3 modes (SP/H/A)
	Travel mode switchover		Low-speed/high-speed switch type
	One-touch idle		Knob switch type
	Engine emergency stop		Switch type
Monitor device			
	Machine status display (TFT color liquid crystal)		
	Message display		
	Work mode select status		SP/H/A
Instruments			
	Fuel gauge		
	Engine coolant temperature gauge		
	Hydraulic oil temperature gauge		
	Hour meter		
	Rear view camera monitor		
	Warning display and warning alarm * has warning alarm		
	Overheat (*) Battery charge (*) Electrical system abnormality (*) Refill fuel (*) Engine oil pressure (*) Refill coolant (*) Engine pre-heat Auto Warm-up Air cleaner (*) Anti-theft device triggered Engine system abnormality (*) Engine emergency stop (*)		
Illumination equipment			
	Working light	Right front tool box front surface:	24 V 70 W x 1
		Cab top:	24 V 70 W x 2
		Boom side:	24 V 70 W x 1
	Interior light		4 V 10 W x 1
Horn			Electric horn x 2
Other			Wiper with intermittent function, window washer, air conditioner, 4 rear view mirrors (2 on cab sides, 1 front right stay, 1 CTWT rear right), 1 rear view mirror (on CTWT)

Swing Units

Swing circle	Swing bearing type (with inner gear)
Swing hydraulic motor	Fixed displacement piston motor x 1
Reduction gear	Planetary gear 2-stage reduction gear
Swing parking brake	Mechanical lock (operational lever linkage type)

Travel Lower Body

Travel hydraulic motor		Variable displacement piston motor x 2
Reduction gear		Planetary gear 2-stage reduction gear(Nabtesco Corporation)
Travel brake		Hydraulic lock
Parking brake		Mechanical lock (travel lever linkage type)
Track shoe		
	Model	Assembly-type triple grouser shoe
	Number of shoes (per side)	48
	Shoe width	600 mm (options 700 mm, 800 mm, 850 mm, 900 mm)
	Grouser height	36 mm
	Link pitch	216 mm
Roller		
	No. of upper rollers (per side)	2
	No. of lower rollers (per side)	8
Track belt tension adjuster		Grease cylinder type (with cushion spring)

Hydraulic Equipment

Hydraulic Device

Hydraulic pump drive type		Direct engine link (no transmission)
Hydraulic pump		
	Model	Double variable displacement piston pump x 1 Gear pump x 1
	Discharge volume	Piston pump 2 x 285 L/min Gear pump 28.5 L/min
	Pump control method	Simultaneous output full-horsepower control
	Set pressure of main relief valve	34.3 MPa (37.3 MPa for pressure boost)
	Set pressure of overload relief valve	27.4 MPa (boom down) 39.2 MPa (boom up/arm/bucket)

Control Valve and Cylinder

Control valve		
	Model	Quadruple spool + quintuple spool x 1
	Operating method	Hydraulic pilot type: travel, swing, and operating machine
Cylinder		No. of cylinders x tube bore - rod diameter - stroke
	Boom cylinder	2 x D145 mm - D100 mm - 1495 mm
	Arm cylinder	1 x D170 mm - D120 mm - 1748 mm
	Bucket cylinder	1 x D150 mm - D105 mm - 1210 mm

Capacities, Filters

Coolant and Oil Capacities

Coolant	35.4 L
Fuel	580 L
Engine lubricating oil (including remote oil filter)	49 L
Travel reduction gear lubricating oil (one side)	11 L
Swing reduction gear lubricating oil	5 L
Hydraulic oil	350 L
Hydraulic oil tank regulation amount	175 L

Hydraulic Oil Filters

Suction filter (inside tank)	105 µm
Return filter (inside tank)	6 µm
Pilot line filter (inside pump chamber)	8 µm

Fuel Filter

Main filter	2 µm
Pre-filter	7 µm

Overall (CX370C)

Main Data

Operating weight	36800 kg
Engine output	198 kW/1900 min^{-1}

Performance

Standard weight	18.0 kN
Swing speed	9.7 min^{-1}
Travel speed	Low speed 3.2 km/h
	High speed 5.4 km/h
Maximum pulling force	263 kN
Grade ability	70 % (35°)
Ground pressure	69 kPa (600 mm grouser shoe)
	60 kPa (700 mm grouser shoe)
	53 kPa (800 mm grouser shoe)

Main Unit Dimensions

Main unit length	6010 mm
Main unit width	3200 mm (600 G shoe)
Upper swing body width	3030 mm
Cab width	1000 mm
Main unit height	3160 mm
Swing radius (rear end)	3550 mm
Swing body rear end distance	3520 mm
Swing body rear section bottom height	1210 mm (not including lug height of 36 mm)
Distance between tumblers	4040 mm
Overall track length	4980 mm
Overall track width	3200 mm (600 G shoe)
Distance between tracks	2600 mm
Track shoe width	600 mm (options 700 mm, 800 mm)
Minimum ground clearance	480 mm (to bottom of lower frame) (not including lug height of 36 mm)

Engine

Name	Isuzu 6HK1X diesel engine
Model	4-cycle, water-cooled, overhead camshaft type Common rail system (electronic control), cooled EGR, with turbocharger (variable displacement type), DPD system
Number of cylinders - bore x stroke	6 - D115 mm x 125 mm
Total stroke volume	7.790 L
Maximum torque	1043 N·m/1500 min^{-1}
Starter	24 V 5.0 kW reduction type
Charging generator	24 V 50 A AC type
Battery	12 V 128 Ah/5 HR x 2

Cooling System

Fan type	D850 mm, 6 blades, suction
Radiator	
Fin type	Wavy
Fin pitch	1.75 mm
Oil cooler	
Fin type	Wavy

	Fin pitch	1.75 mm
Intercooler		
	Fin type	Wavy
	Fin pitch	2.5 mm
Fuel cooler		
	Fin type	Wavy
	Fin pitch	2.0 mm

Upper Side Work System

Model		Backhoe attachment		
Dimensions, working dimensions				
	Bucket capacity (reference)	Heaped 1.40 m^3 (Leveled 1.04 m^3)		
	Bucket width	1310 mm		
	Bucket width with side cutter	1420 mm		
	Bucket weight with side cutter	1480 kg		
	Boom length	6450 mm		
	Arm type	Standard (HD) (3.25 m)	Short (2.63 m)	Ultra-short (2.21 m)
	Arm length	3250 mm	2630 mm	2210 mm
	Bucket radius	1680 mm		
	Bucket wrist angle	173°		
	Maximum digging radius	11170 mm	10670 mm	10200 mm
	Maximum digging radius at ground line	10980 mm	10470 mm	9990 mm
	Maximum digging depth	7340 mm	6730 mm	6300 mm
	Maximum vertical straight wall digging depth	6350 mm	5970 mm	5080 mm
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	Minimum swing radius at front	4500 mm	4630 mm	4660 mm
	Height for minimum swing radius at front	8480 mm	8540 mm	8650 mm

Operating Device

Operator's seat		
	Position	Left side
	Structure	Adjustable forward and back and up and down, reclining mechanism, with seat suspension
Cab		Sealed steel type, all reinforced glass, ROPS, with sunroof
Levers and pedals		
	For travel use	Lever and pedal type (hydraulic pilot type) x 2
	For operating machine use	Lever type (hydraulic pilot type) x 2
Instruments and switches		
Work mode switchover		3 modes (SP/H/A)
	Travel mode switchover	Low-speed/high-speed switch type
	One-touch idle	Knob switch type
	Engine emergency stop	Switch type
Monitor device		
	Machine status display (TFT color liquid crystal)	
	Message display	
	Work mode select status	SP/H/A
Instruments		
	Fuel gauge	
	Engine coolant temperature gauge	
	Hydraulic oil temperature gauge	
	Hour meter	

	Rear view camera monitor		
	Warning display and warning alarm * has warning alarm		
	Overheat (*) Battery charge (*) Electrical system abnormality (*) Refill fuel (*) Engine oil pressure (*) Refill coolant (*) Engine pre-heat Warm up Air cleaner (*) Anti-theft device triggered Engine system abnormality (*) Engine emergency stop (*)		
Illumination equipment			
	Working light	Right front tool box front surface:	24 V 70 W x 1
		Cab top:	24 V 70 W x 2
		Boom side:	24 V 70 W x 1
	Interior light		24 V 10 W x 1
Horn			Electric horn x 2
Other			Wiper with intermittent function, window washer, air conditioner, 4 rear view mirrors (2 on cab sides, 1 front right stay, 1 CTWT rear right), 1 rear view mirror (on CTWT)

Swing Units

Swing circle	Swing bearing type (with inner gear)
Swing hydraulic motor	Fixed displacement piston motor x 1
Reduction gear	Planetary gear 2-stage reduction gear
Swing parking brake	Mechanical lock (operational lever linkage type)

Travel Lower Body

Travel hydraulic motor		Variable displacement piston motor x 2
Reduction gear		Planetary gear 2-stage reduction gear
Travel brake		Hydraulic lock
Parking brake		Mechanical lock (travel lever linkage type)
Track shoe		
	Model	Assembly-type triple grouser shoe
	No. of shoes (per side)	48
	Shoe width	600 mm (options 700 mm,850 mm, 800 mm,900 mm)
	Grouser height	36 mm
	Link pitch	216 mm
Roller		
	No. of upper rollers (per side)	2
	No. of lower rollers (per side)	8
Track belt tension adjuster		Grease cylinder type (with cushion spring)

Hydraulic Equipment

Hydraulic Device

Hydraulic pump drive type		Direct engine link (no transmission)
Hydraulic pump		
	Model	Double variable displacement piston pump x 1 Gear pump x 1
	Discharge volume	Piston pump 2 x 285 L/min Gear pump 28.5 L/min
	Pump control method	Simultaneous output full-horsepower control
	Set pressure of main relief valve	34.3 MPa (37.3 MPa for pressure boost)
	Set pressure of overload relief valve	27.4 MPa (boom down) 39.2 MPa (boom up/arm/bucket)

Control Valve and Cylinder

Control valve		
	Model	Quadruple spool + quintuple spool x 1
	Operating method	Hydraulic pilot type: travel, swing, and operating machine
Cylinder		No. of cylinders x tube bore - rod diameter - stroke
	Boom cylinder	2 x D145 mm - D100 mm - 1495 mm
	Arm cylinder	1 x D170 mm - D120 mm - 1748 mm
	Bucket cylinder	1 x D150 mm - D105 mm - 1210 mm

Capacities, Filters

Coolant and Oil Capacities

Coolant	35.4 L
Fuel	580 L
Engine lubricating oil (including remote oil filter)	49 L
Travel reduction gear lubricating oil (one side)	11 L
Swing reduction gear lubricating oil	5 L
Hydraulic oil	350 L
Hydraulic oil tank regulation amount	175 L

Hydraulic Oil Filters

Suction filter (inside tank)	105 µm
Return filter (inside tank)	6 µm
Pilot line filter (inside pump chamber)	8 µm

Fuel Filter

Main filter	2 µm
Pre-filter	7 µm

Section

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Main Equipment Table