

CX350C
Tier 4
Crawler Excavator

SERVICE MANUAL

Part number 84402832

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Section

1001

Safety, general information and standard torque data

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Safety, general information and standard torque data

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, general information and standard torque data

Safety



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.

Safety, general information and standard torque data

⚠ 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.

Safety, general information and standard torque data

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)

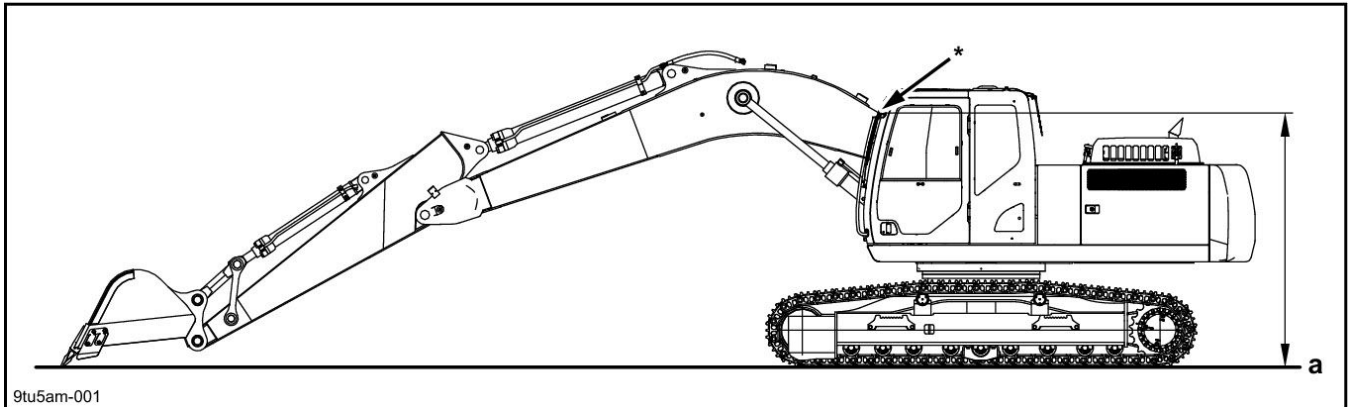
Machine body total weight	Class
25000 kg or less	CX130B CX160B CX180B CX210B CX230B

Safety, general information and standard torque data

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.

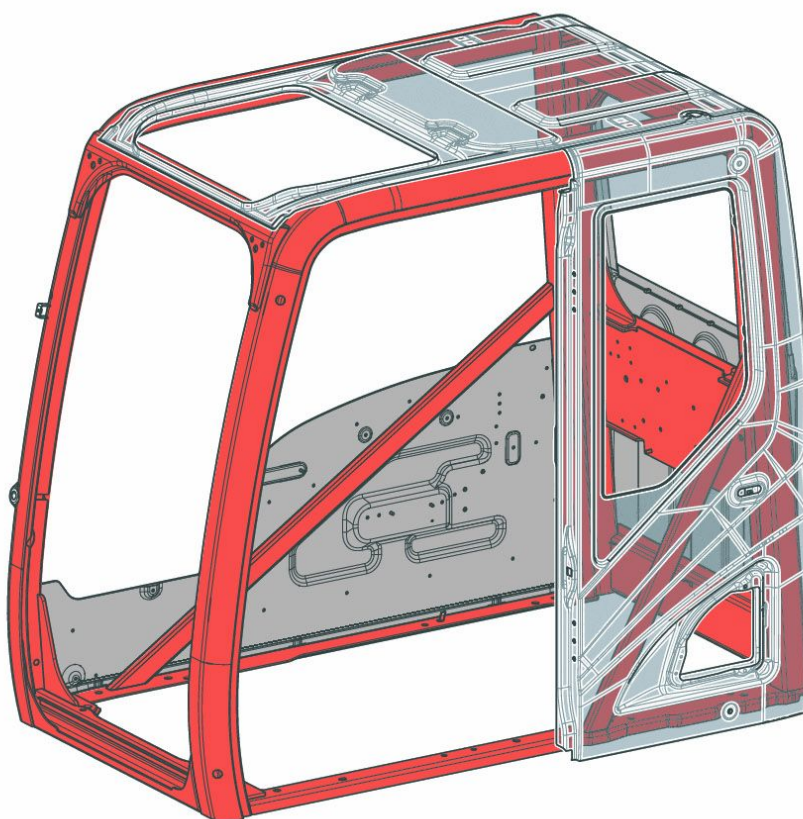
Safety, general information and standard torque data

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.

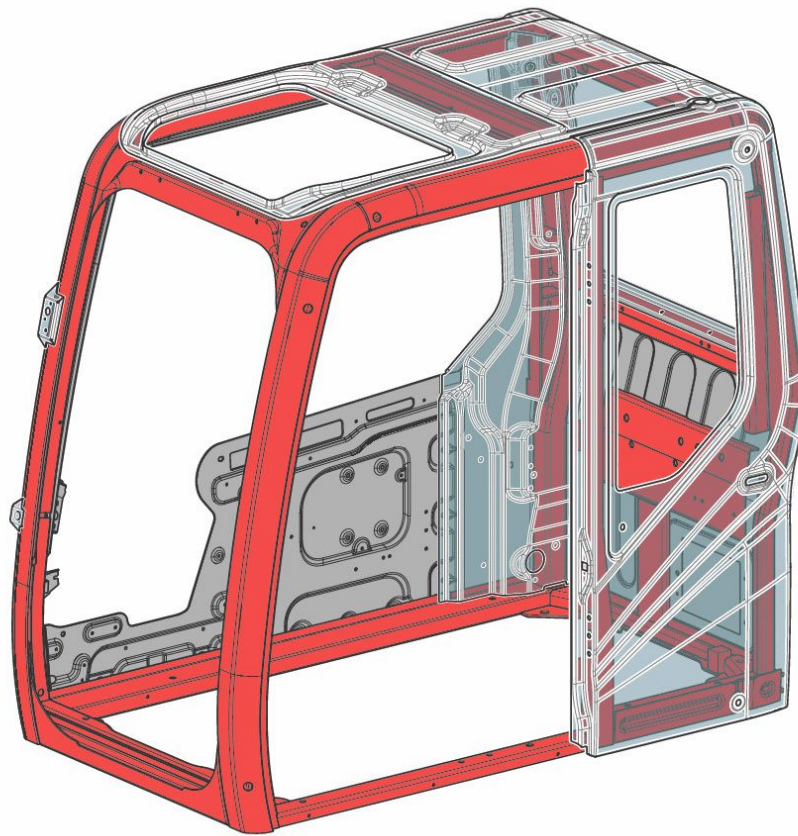
[C series Cab]



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Safety, general information and standard torque data

[B series Cab]



9tu5am-004

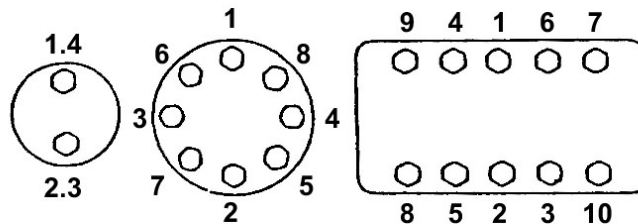
- In general, high cabs do not satisfy the ROPS criteria. (It is necessary to consult with our company to check if the high cab model satisfies the ROPS criteria.)

Safety, general information and standard torque data

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

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Specifications

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Specifications

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

Specifications

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

Specifications

	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)

Specifications

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

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Main Equipment Table

Main Equipment Table

Lower Component

Travel Unit

Manufacturer	Nabtesco Corporation
Motor type	Variable displacement piston motor
	Automatic 2-speed switchover with parking brake
Intake amount	290.7/170.1 cm ³ /rev
Operating pressure	34.3 MPa
Operating flow	285 L/min
Brake torque	47.39 kN·m min. (including reduction gear)
Relief valve set pressure	35.8 - 37.8 MPa
Automatic 2-speed switchover pressure	26.5 MPa
Reduction gear	
Reduction gear type	Planetary gear 2-stage reduction gear
Reduction ratio	40.467
Dry weight	399 kg

Take-up Roller

Sumitomo part No.	LH5146
Weight	164.6 kg

Upper Roller

Weight	43 kg
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Lower Roller

Weight	61 kg
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Recoil Spring

Item	Weight (kg)	Q'ty
Yoke	39.8	1
Sems B M16 x 50	0.5	4
Threaded rod	49.1	1
Groove height N M64	1.9	1
SP pin 10 x 100	0.1	1
Recoil spring	119.4	1
Grease cylinder assembly	41.1	1
Sems B M16 x 65	0.3	2
Assembly (Total)	252.2	
Mounting length of spring	779 mm	

Main Equipment Table

Shoe (CX350C)

	Weight or Q'ty
600 grouser	2217 kg
Link	1 set
Shoe	48
Bolt	192
Nut	192
700 grouser	2473 kg
Link	1 set
Shoe	48
Bolt	192
Nut	192
800 grouser	2618 kg
Link	1 set
Shoe	48
Bolt	192
Nut	192
850 grouser	2735 kg
Link	1 set
Shoe	48
Bolt	192
Nut	192
900 grouser	2817 kg
Link	1 set
Shoe	48
Bolt	192
Nut	192

Main Equipment Table

Upper Component

Swing Unit (CX350C)

Swing motor assembly	
Swing motor	
Manufacturer	Kawasaki Precision Machinery Ltd.
Motor type	Fixed displacement piston motor
	With parking brake
Intake amount	180.1 cm ³ /rev
Operating pressure	30.4 MPa
Operating flow	285 L/min
Mechanical brake torque	1010.8 N·m min.
Brake off pressure	3.1 MPa max.
Relief valve set pressure	30.4 MPa
Swing reduction gear	
Reduction gear type	Planetary gear 2-stage reduction gear
Reduction ratio	27.143
Dry weight	437 kg
Turntable bearing	
No. of teeth	92
Weight	540 kg
Counterweight	
Weight	6400 kg

Main Equipment Table

Engine-related

Engine

Sumitomo part No.	KSH11600
Engine model name	Isuzu 6HK1X diesel engine
Engine type	4-cycle, water-cooled, overhead camshaft type, common rail system (electronic control), cooled EGR, with turbocharger (variable displacement type), DPD system
No. of cylinders - bore - stroke	6 - D115 mm - 125 mm
Total displacement	7.79 L
Compression ratio	17.5
Rated output	198 kW/1900 min ⁻¹
Maximum torque	1043 N·m/about 1500 min ⁻¹
Fuel consumption ratio	221 - 241 g/kW·h at 1900 min ⁻¹
Engine dry weight	About 640 kg
Engine dimension	L 1388 - W 1047 - H 1194 mm
Cooling fan	D850 mm - suction type - 6 vanes, plastic and steel
	With bell mouth-type fan guide
Pulley ratio	0.9 (reduction)
Charging generator	24 V 50 A AC type
Starter motor	24 V 5 kW reduction type
Coolant capacity	14.5 L
Oil pan capacity	Max: 46 L Min: 36 L (not including oil filter)
Direction of rotation	Right (viewed from fan side)
	Compliant with JISD 0006-2000.

DPD

Manufacturer	Isuzu Motors, Ltd.
Weight	38 kg

Air Cleaner (double element)

Manufacturer	Nippon Donaldson, Ltd.
Element (outer)	
Element (inner)	
Weight	13 kg

Radiator

Manufacturer		Tokyo Radiator MFG. Co.,Ltd.
Oil cooler	Weight	39.0 kg
	Oil volume	12.9 L
Radiator	Weight	11.9 kg
	Coolant capacity	9.4 L
Air cooler	Weight	12.6 kg
	Capacity	-
Fuel cooler	Weight	1.0 kg x 2
	Capacity	0.3 L x 2
Total weight		159 kg

Main Equipment Table

Hydraulic Device

Hydraulic Pump

Manufacturer		Kawasaki Precision Machinery Ltd.
Main pump		
Pump type		Double variable displacement piston pump
Displacement capacity		150 x 2 cm ³ /rev
Operating pressure	Rated	34.3 MPa
	Maximum	37.3 MPa
Input revolution speed		1900 min ⁻¹
Maximum discharge flow		289 x 2 L/min (at Pd = 3.0 MPa. 1900 min ⁻¹)
		285 x 2 L/min (at Pd = 8.0 MPa. 1900 min ⁻¹)
Pilot pump		
Pump type		Gear pump
Displacement capacity		15 cm ³ /rev
Operating pressure		3.9 MPa
Maximum discharge flow		28.5 L/min (at 1900 min ⁻¹)
Control method		Hydraulic simultaneous constant output control
		Maximum flow adjustment control through external commands (negative control)
		Maximum flow adjustment control through external command milli-amp (negative control, front side)
		Setting horsepower adjustment control through external command milli-amp
Dry weight		188 kg

Main Equipment Table

Control-related

Control Valve

STD (with 2nd option add-on valve)		
Manufacturer		KYB Corporation
Maximum flow		285 L/min (at 1900 min ⁻¹)
Overload set pressure		27.4 MPa boom down
		39.2 MPa boom up, arm, bucket
		22.6 MPa attachment 2
Main relief set pressure		34.3 MPa
	(at boosting)	37.3 MPa
Foot relief set pressure		2.55 MPa
Function		Straight travel circuit
		Boom-up/arm 2 pumps internal flow
		Boom and arm load holding circuit
		Boom-down regenerative circuit
		Bucket-close regenerative circuit
		Arm-in forced regenerative circuit
		Swing priority variable orifice
		2 pumps flow (external flow merging)
Weight		199 kg 215 kg

Solenoid Valve (4 stack)

Manufacturer			Yuken Kogyo Co., Ltd.
Valve specifications			
	Maximum flow		P → B 20 L/min Other 5 L/min
	Rated pressure		4.5 MPa
	Port size	G3/8	P.T.B. port
		G1/4	C1, C2, C3, C4, C5 ports
Solenoid specifications			
	Operating voltage		DC 20 - 32 V
	Power consumption		17 W max.
Weight			5 kg

Main Equipment Table

Remote Control Valve (left/right, travel operations)

Remote Control Valve for Left/Right Operations

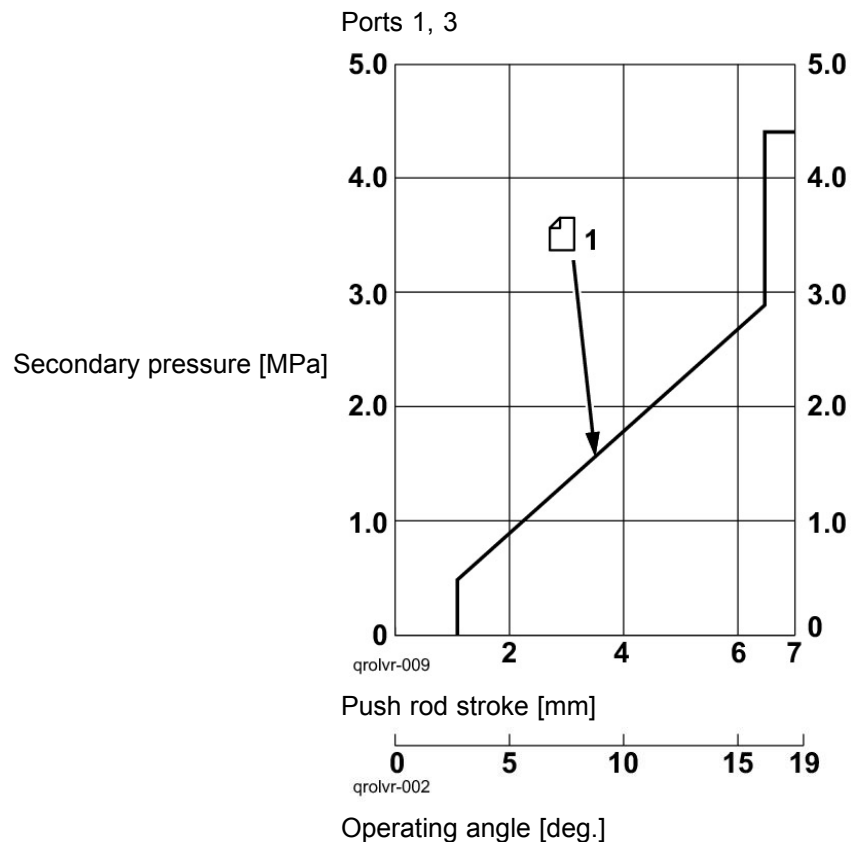
Manufacturer		Kawasaki Precision Machinery Ltd.
Operating pressure		3.92 MPa
Secondary pressure		0.64 - 2.45 MPa primary short type
Operating	1, 3 port	19°
	2, 4 port	25°
Weight		1.9 kg

Remote Control Valve for Travel Operations

Manufacturer	Kawasaki Precision Machinery Ltd.
Operating pressure	3.92 MPa
Secondary pressure	0.64 - 2.45 MPa primary short type
Operating angle	12.4°
Weight	5.5 kg

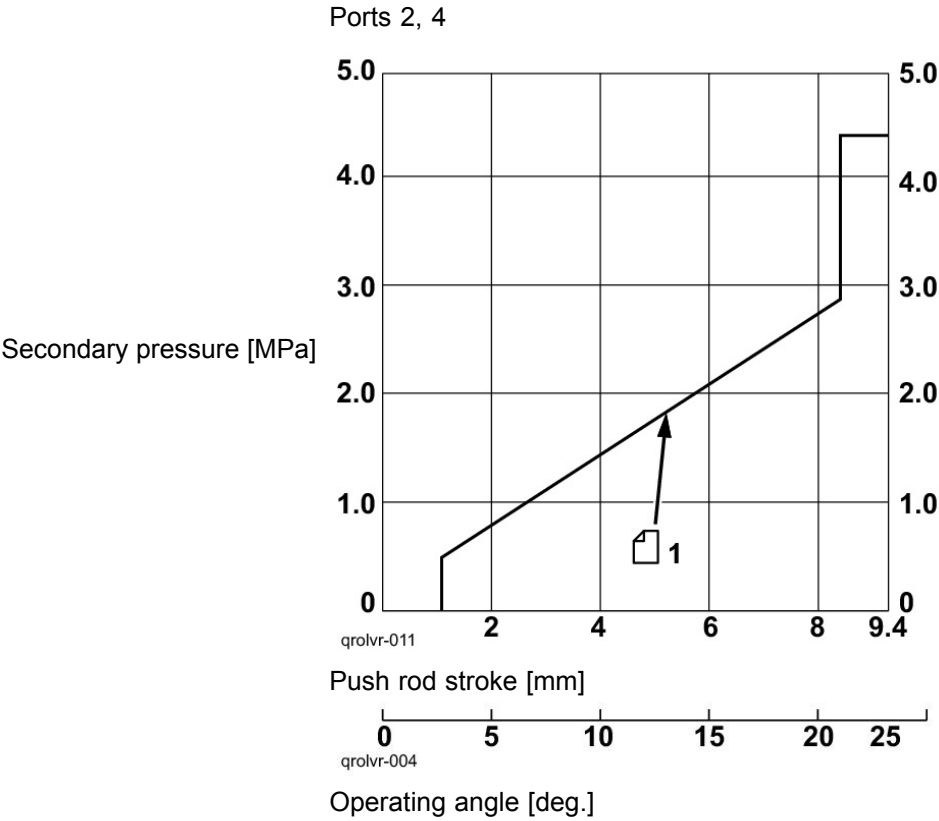
Remote Control Valve Characteristic Diagram

Operation Remote Control Valve Control Diagram



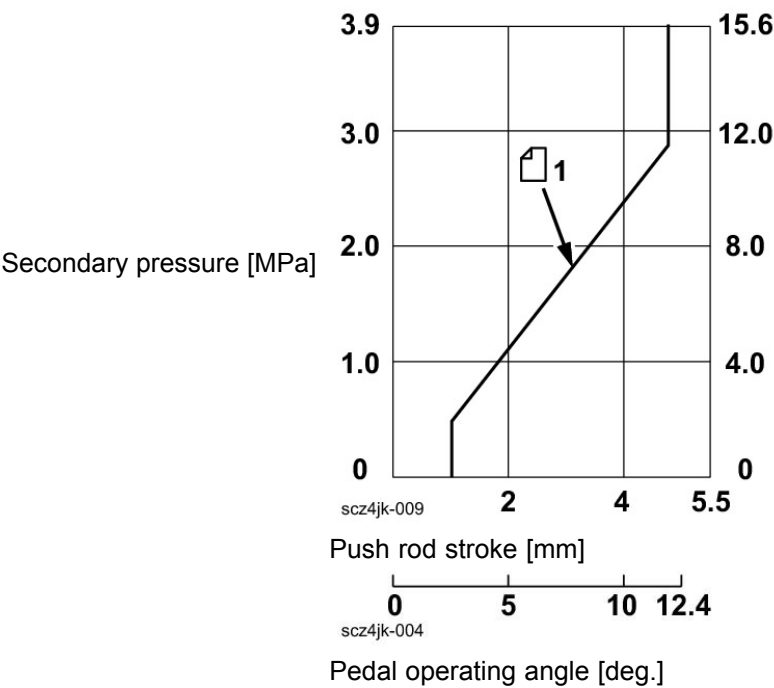
Secondary pressure

Main Equipment Table



 Secondary pressure

Travel Remote Control Valve Control Diagram



 Secondary pressure

Main Equipment Table

Cushion Valve (heat circuit, with shuttle valve)

Manufacturer	Yanagisawa Seiki MFG. Co., Ltd.
Port size	G 3/8 (A - P ports)
	G 1/4 (Q - V ports)
Weight	12.5 kg

Center Joint

Operating pressure	High-pressure passage (ABCD)	34.3 MPa
	Drain port (T)	1.0 MPa
	Pilot port (P)	3.9 MPa
Flow	High-pressure passage (ABCD)	360 L/min
	Drain port (T)	40 L/min
	Pilot port (P)	31 L/min
Port A	Forward right	G1
Port B	Forward left	G1
Port C	Backward right	G1
Port D	Backward left	G1
Port T	Drain port	G1/2
Port P	Pilot port	G1/4
Weight	55.5 kg	

Backhoe Attachment

Cylinder

Boom Cylinder	
Cylinder bore	D145 mm
Rod diameter	D100 mm
Maximum retracted length	2090 mm
Stroke	1495 mm
Weight	279 kg

Arm Cylinder	
Cylinder bore	D170 mm
Rod diameter	D120 mm
Maximum retracted length	2445 mm
Stroke	1748 mm
Weight	462 kg

Bucket cylinder	
Cylinder bore	D150 mm
Rod diameter	D105 mm
Maximum retracted length	1870 mm
Stroke	1210 mm
Weight	276 kg

Main Equipment Table



Section

1002C

Main Unit Weight

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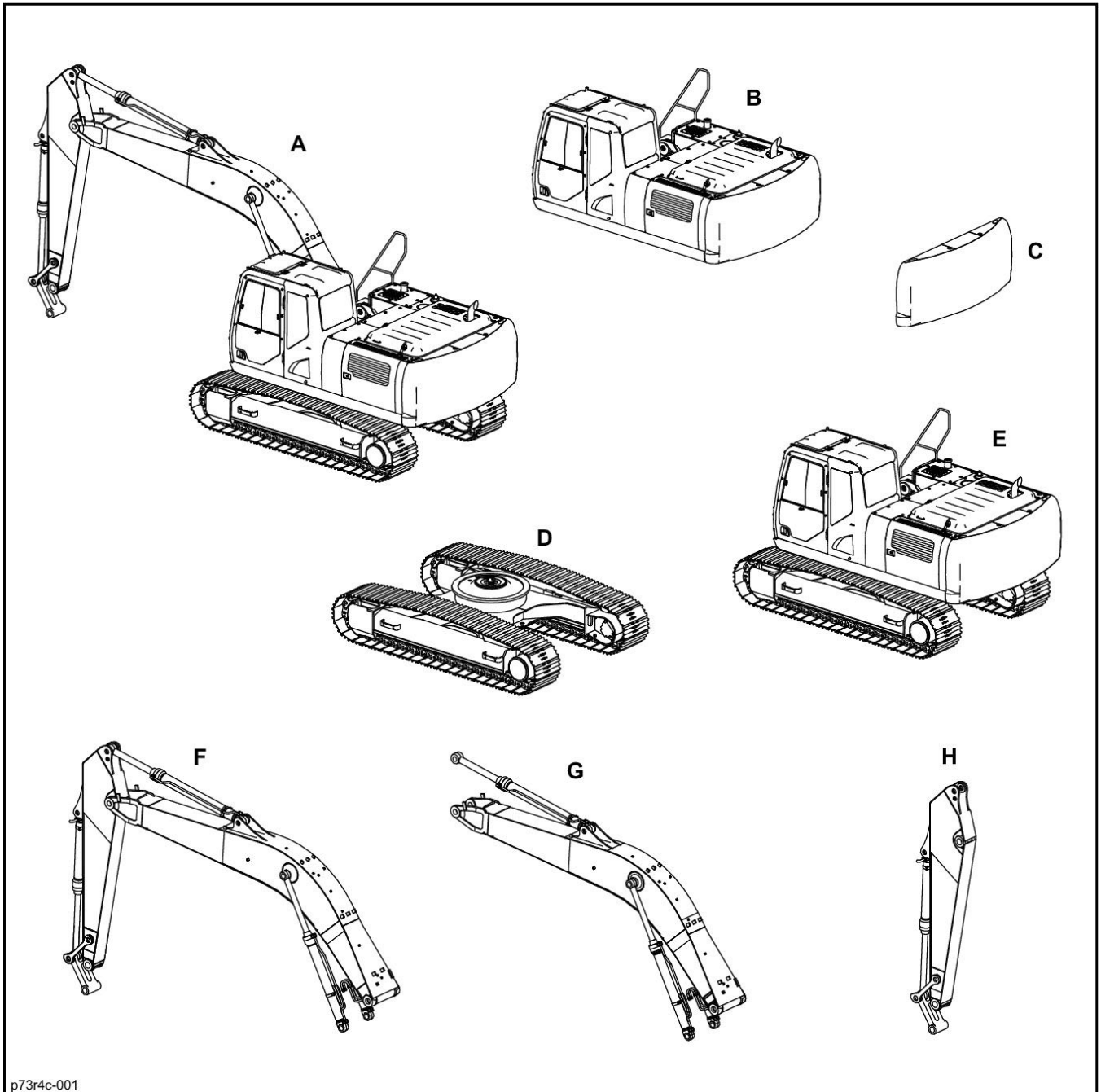
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Main Unit Weight

Main Unit Weight

Divided Weight (standard specifications) CX350C



p73r4c-001

Code	Component name	Weight (kg)
A	Operating weight	34700
B	Upper component (including counterweight and turntable bearing)	15370
C	Counterweight	6420
D	Lower component (with grouser shoe)	12290
E	Main unit weight	27700
F	Attachments	7000
G	Boom (including cylinders)	3920
H	Arm (including cylinders and linkage)	1800

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