588 crawler and wheeled hydraulic excavators

Table of contents

** * Refer to the Engine Service Manual*

NOTA : La Société CASE se réserve le droit de modifier sans avis préalable les caractéristiques et la conception de la machine sans obligation d'y procéder sur la machine déjà vendue.

La description des modèles déclinés dans ce manuel a été établie à partir des caractéristiques techniques connues à la date de conception de ce document.

Section

1001

SAFETY, GENERAL INFORMATION AND TORQUE SPECIFICATIONS

Case

Cre 7-56942GB

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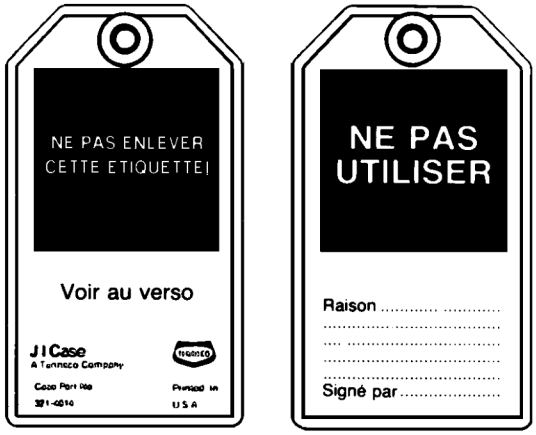
TABLE OF CONTENTS

SAFETY

WARNING: *This symbol means WARNING ! BE VIGILANT ! YOUR SAFETY IS AT RISK. The message that follows the symbol contains important safety information. Read it carefully. Be sure you understand the possible risks of injury or even death.*

To avoid all risks, always follow the safety notes contained in this section and throughout this manual.

Put the warning tag shown below on the key for the keyswitch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags, Part Number 321-4614, are available from your service parts supplier.



PDG0328

WARNING: *Read the Operator's Manual carefully and make sure you understand how to operate the controls correctly.*

WARNING: *Never operate the machine and attachment controls unless you are seated in the operator's seat. If you are not in the operator's seat, you run the risk of serious injury.*

WARNING: *The machine is built to carry the operator only. Do not allow passengers to ride on the machine.*

WARNING : *Prior to starting up the engine read the safety messages contained in the operator's manual carefully. Read all safety stickers on the machine. Have people move back from the machine. Learn how to use the controls before starting up the machine. It is your responsibility to follow the manufacturer's instructions on how to operate and maintain the machine. It is your responsibility to follow applicable rules and regulations. Service and Operator's Manuals are available from your J.I. Case Dealer.*

WARNING: *If you wear loose clothing or if you omit to use safety equipment for your work, you risk injury. Always wear clothes that do not risk getting caught in the machine. Other safety equipment may be necessary, in particular : helmets, safety shoes, ear plugs, safety glasses, protection mask, thick gloves and reflecting clothes.*

WARNING: *When working close to the fan with the engine running, avoid wearing loose clothing and operate with extreme caution.*

WARNING: *When checking the hydraulic circuits, follow procedures to the letter. DO NOT CHANGE procedures.*

WARNING: *Prior to operating the hydraulic cylinders of this machine for setting or to bleed the circuit, have all people standing around the machine move away.*

WARNING: *Wear gloves or insulated mittens when working on hot parts.*

WARNING: *Lower all attachments to the ground or rest them on stands before carrying out maintenance jobs.*

WARNING: *Fine sprays of hydraulic oil under pressure can penetrate the skin and cause serious infection. If hydraulic oil under pressure penetrates the skin, see a doctor immediately. Maintain all hoses and pipes in good condition. Make sure that all connections are properly tightened. Change all hoses or pipes that have been damaged or that are suspect. DO NOT CHECK for leaks with bare hands. Use a piece of cardboard or wood.*

WARNING: *To remove a hardened pin such as a pivot pin, or a hardened shaft, use a soft head hammer (brass or bronze) or a brass or bronze strip and a steel head hammer.*

WARNING: *When using a hammer to remove or reassemble pivot pins, or when using compressed air, or when using a grinder make sure to wear safety glasses that protect the eyes from all sides.*

WARNING: *Use proper lifting/hoisting equipment to lift wheels or tracks and always work on safe ground. Prevent the machine from moving using correct safety chocks.*

WARNING: *When performing maintenance or repair operations on the machine, make sure that the work shop floor, the cab and the steps of the excavator are free from oil, water, grease, tools etc. Use oil absorbing material or rags as necessary. Always think safety.*

WARNING: *Certain components of this machine are very heavy. Use hoisting tools or additionnal assistance as recommended in this manual.*

WARNING: *Exhaust fumes can cause death. If it is necessary to start up the engine in a closed building, evacuate exhaust fumes using an exhaust pipe extension. Open the doors and let fresh air into the building.*

WARNING: *When battery liquid is frozen, the battery can explode if : (1) you try to charge the battery or (2) you try to start the engine by connecting an auxiliary power source. To prevent battery electrolyte from freezing keep the battery fully charged. If you do not follow these instructions, you or others nearby may be injured.*

WARNING: *Batteries contain acid and explosive gases. A spark, a flame or an improper cable connection may cause an explosion. For proper connection of cables to the battery of this machine see the Operator's Manual. If you do not follow these instructions, you risk severe injury.*

TWIN WHEELS

Safety rules

WARNING: *In all cases, before removing twin wheels, always deflate both tyres completely.*

WARNING: *If a tyre bursts it can cause serious injury. Check tyres regularly to see that they are in good condition and always be sure to inflate them to the correct pressure.*

WARNING: *Never face a tyre when checking pressure or adding air. Always stand in front of the tread. Use an inflation cage if the wheel has been removed from the machine. Make sure all people standing in the area move well away.*

WARNING: *Never weld near a tyre.If this can not be avoided, it is mandatory to remove the tyre before performing any welding operations.*

WARNING: *Make sure that all decals on the machine are perfectly legible, clean them regularly and replace any decals which are damaged, missing or painted over, with new ones.*

Safety instructions

- Use appropriate, good quality tools to disassemble the various wheel components. Never use a hammer. Use a rubber, plastic or copper-faced mallet.

IMPORTANT: *Never remove the inner tyre valve extension, as this will be necessary afterwards for inflating and deflating the tyre.*

IMPORTANT: *If the valve or the valve extension are no longer accessible, take the necessary precautions and then, imperatively, puncture the tyre.*

- Use suitable grease to facilitate the installation and removal of the tyre.
- Never re-inflate a tyre on the machine which has been used at a pressure lower than 5.6 bar.
- Check the various components: tyre, rim, shoulder, retaining ring and replace any defective items.
- Never reuse a retaining ring which is distorted or rusty.

GENERAL INFORMATION

CLEANING

Clean all metal parts except bearings with white spirit or steam. Do not use caustic soda when steam cleaning. After cleaning, dry and lubricate all parts. Clean hydraulic lines with compressed air. Clean bearings with kerosene, then dry them and lubricate them.

INSPECTION

Check all parts when disassembled. Change all parts showing wear or damage. Scratches that are not too deep can be removed by honing or with a rag dipped into buffing compound. A full visual inspection to detect wear and pitting and subsequent changing of parts will prevent premature failure.

BEARINGS

Check that bearings rotate freely. If their adjustment is too loose or if they do not run regularly, change them. Wash bearings with a good solvent or kerosene and let them dry. DO NOT DRY BEARINGS WITH COMPRESSED AIR.

NEEDLE BEARINGS

Before inserting needle bearings into a bore, remove all metal particles from the edge of the bore. Prior to mounting bearings with a press, coat the inside and the outside of the bearing with vaseline.

GEARS

Check all the gears for wear or damage. Change worn or damaged gears.

SEAL RINGS, O-RINGS, GASKETS

Always use new seal rings. O-rings and gaskets. Coat sealing rings and O-rings with vaseline.

SHAFTS

Check all shafts showing signs of wear or damage. Check that the surface of a shaft running in a bearing is not damaged.

SPARE PARTS

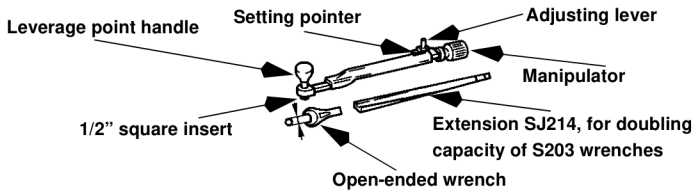
Always use original CASE spare parts. To order spare parts, see the Spare Parts Catalogue to indicate the proper reference of original CASE spare parts. Failures caused by the use of parts that are not original CASE spare parts are not covered by the warranty.

LUBRICATION

Use only oils and lubricants specified in the Operator's and Service Manuals. Failures due to the use of oils and lubricants not specified are not covered by the warranty.

CORRECT USE OF TORQUE WRENCHES

TORQUE WRENCHES



PDG0315

CORRECT USE

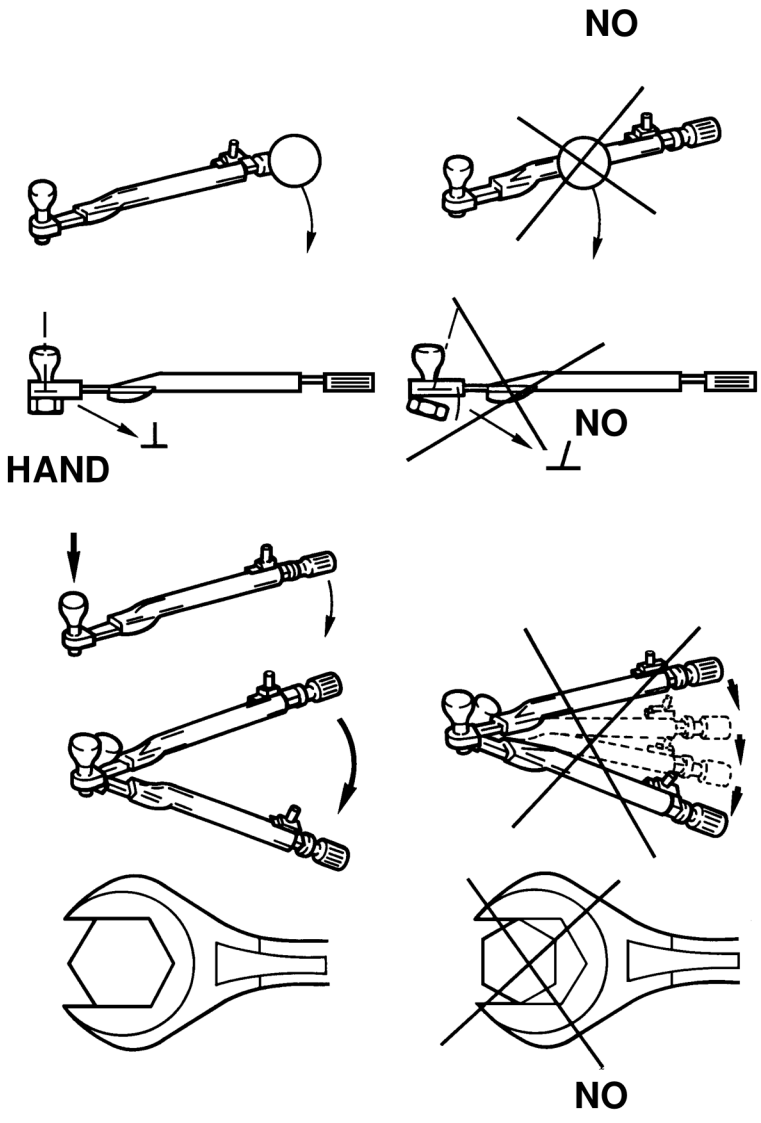
a - Hold the wrench by the handle provided.

b - When tightening, always keep the wrench perpendicular to the screw.

c - Keep one hand on the leverage point handle on the wrench.

d - Tighten progressively in one movement.

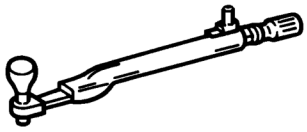
e - Position a correctly dimensioned socket or open-ended wrench on the flats of the screw head.



PDG0316

HARDWARE TIGHTENING ORDER

TORQUE WRENCHES



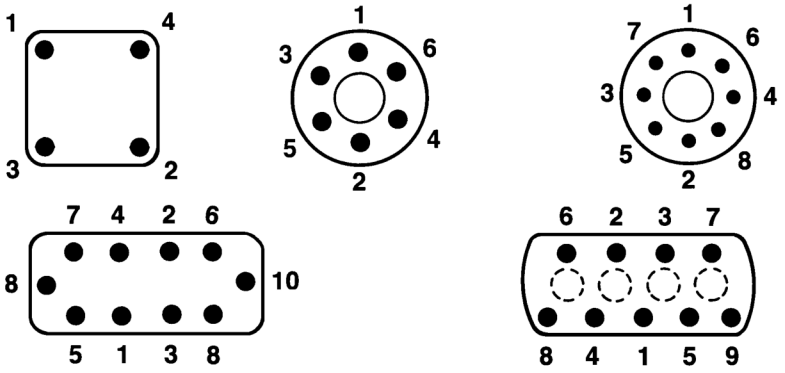
PDG0317

INITIAL TORQUE

a - Torque wrench.

- Follow the correct order of procedure when tightening.

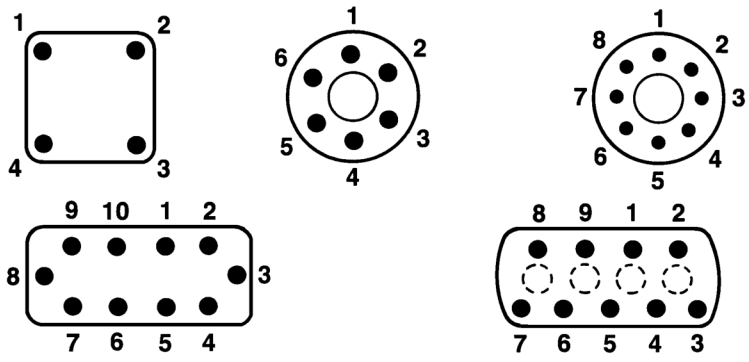
- Cross or diagonal pattern tightening.



PDG0318

FINAL TORQUE

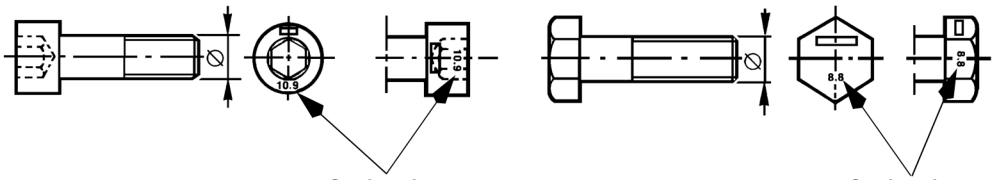
Always tighten in clockwise order.



PDG0319

STANDARD SCREW A TORQUE SPECIFICATIONS

Correct screw identification



PDG0320

	Diameter x thread size Grade 8.8	Key		Torque Nm		Torque lb.ft	
				□	■	□	■
Two-part hydraulic connector (to SAE J518 specifications)	M5 x 0.8	4	8	5.5	5.5	4.1	4.1
	M6 x 1	5	10	9	9	6.7	6.7
	M8 x 1.5	6	13	22.5	22.5	16.6	16.6
	M10 x 1.5	8	17	45	45	33.2	33.2
	M12 x 1.75	10	19	70	80	51.6	59
	M14 x 2	12	22	100	120	73.8	88.6
	M16 x 2	14	24	170	200	125.5	147.6
	M18 x 2.5	14	27	250	300	184.5	221.4
	M20 x 2.5	17	30	350	400	258.3	295.2
	M22 x 2.5	17	32	500	600	369	442.8
	M24 x 3	-	36	600	700	442.8	516.6
	M27 x 3	-	41	900	1000	664.2	738
	M30 x 3.5	-	46	1200	1400	885.6	1033.2
Components assembled by screws and bolts **SCREW**	**Grade 10.9**						
	M5 x 0.8	4	8	75	75	5.6	5.6
	M6 x 1	5	10	12.5	12.5	9.3	9.3
	M8 x 1.5	6	13	35	35	25.8	25.8
	M10 x 1.5	8	17	60	70	44.3	51.6
	M12 x 1.75	10	19	100	120	73.8	88.6
	M14 x 2	12	22	170	200	125.5	147.6
	M16 x 2	14	24	250	300	184.5	221.4
	M18 x 2.5	14	27	350	400	258.3	295.2
	M20 x 2.5	17	30	500	600	369	442.8
	M22 x 2.5	17	32	700	800	516.6	442.8
	M24 x 3	-	36	900	1000	664.2	738
	M27 x 3	-	41	1200	1400	885.6	1033.6
BOLT	M30 x 3.5	-	46	1700	1900	1254.6	1402.2

PDG0321

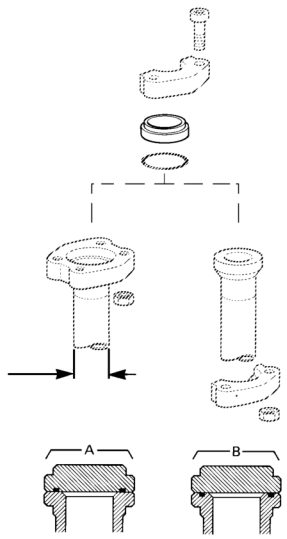
PDG0322

□ Zinc bichromate

■ Phosphate

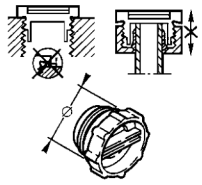
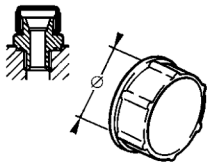
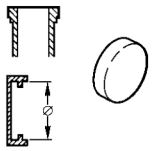
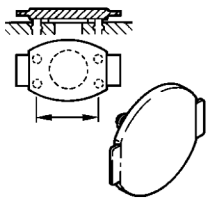
METAL CAP REFERENCES

To SAE J518 specifications

	NP 250 bar Ø ND	NP 400 bar Ø ND	Part number	
			A	B
 PDG0323	13 mm	-	D5327838	E5327839
	19 mm	-	F5327840	G5327841
	25 mm	-	H5327842	J5327843
	32 mm	-	K5327844	L5327845
	38 mm	-	M5327846	N5327847
	-	13 mm	U5327830	V5327831
	-	19 mm	W5327832	X5327833
	-	25 mm	Z5327834	A5327835
	-	32 mm	B5327836	C5327837

NP = Nominal pressure
NP = Nominal diameter

PLASTIC PLUG AND CAP REFERENCE CHART

	Dia. x pas	Part number	Dia. x pas	Part number
Tapped orifices and connectors with tightening nuts = screw-type plugs  PDG0324	M10 x 1.5 M12 x 1.5 M14 x 1.5 M16 x 1.5 M18 x 1.5	F3237416 G3237417 H3237418 J3237419 K3237420	M20 x 1.5 M22 x 1.5 M24 x 1.5 M27 x 2	L3237421 M3237422 N3237423 Q3237448
Unions = Screw-type plugs  PDG0325	M12 x 1.5 M14 x 1.5 M16 x 1.5 M18 x 1.5	X3237409 Z3237410 A3237411 B3237412	M20 x 1.5 M22 x 1.5 M30 x 1.5	C3237413 D3237414 E3237415
S.A.E tube or hose collars = external plugs  PDG0326	NP 250 bar 30.2 38.1 44.5 50.8 60.4	 J2537460 K2537461 L2537462 M2537463 N2537464	NP 400 bar 31.8 41.3 47.6 54 63.6	 P2537465 Q2537466 R2537467 S2537468 T2537469
S.A.E orifices = caps for installation into tapped fitting orifices  PDG0327	NP 250 bar L = 38.1 47.65 52.35 58.07 69.85	 A2340480 B2340481 C2340482 D2340483 E2340484	NP 400 bar L = 40.5 50.8 57.15 66.7 79.4	 K1640415 R1640421 S1640422 T1640423 Z1640479

NP = Nominal pressure
ND = Nominal diameter

Section

1002

SPECIFICATIONS

588 CRAWLER EXCAVATORS

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November 1999

TABLE OF CONTENTS

WARNING : *This symbol is used in this manual to indicate important safety messages. Whenever you see this symbol, carefully read the message that follows, as there is a risk of serious injury.*

FLUIDS AND LUBRICANTS

Lubricants must have the correct properties for each application.

> ⚠ **WARNING :** *The conditions of use for individual fluids and lubricants must be respected.*

Hydraulic fluid

CASE hydraulic fluid is specially designed for high pressure applications and for the CASE hydraulic system. The type of fluid to be used depends on the ambient temperature.

Temperate climates

-20°C to +40°C
Fluid type ISO VG 46
CASE Reference POHYDR

Hot climates

0°C to +60°C
Fluid type ISO VG 100
CASE Reference POHYPC

Cold climates

-40°C to +20°C
Fluid type ISO VG 22
CASE Reference POHYPF

These different fluid grades must be in conformity with CASE France specification P9903201Z.

Temperate country biodegradable fluid :

This yellow fluid is compatible with standard fluid. If adopted, it is advisable to drain the circuit completely.
Fluid type ISO VG 46
CASE Reference CASYNTH46

This fluid grade must be in conformity with CASE France specification P9903203B.

Transmission component oil

Extreme Pressure oil is used for all cased transmission components.
Extreme pressure oil TYPE API GL5 GRADE 80W90 and ISO VG 150

Grease

The type of grease to use depends on ambient temperature.

Temperate and hot climates

-20°C to +60°C
EP NLGI grade 2 extreme pressure grease, containing molybdenum disulphide.

Cold climates

-40°C to +20°C
EP NLGI grade 0 extreme pressure grease.

Engine oil

CASE No 1 motor oil is the oil recommended for your engine. This oil ensures correct lubrication of your engine in all working conditions.

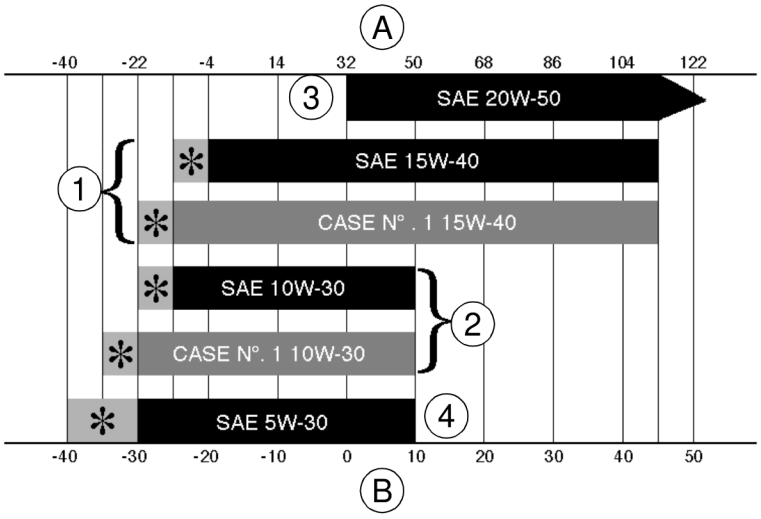
If CASE No 1 Multiperformance or Performance engine oil cannot be obtained, use only oil of the API/CE category.

NOTE: *Do not put any Performance Additive or other additive in the sump. Oil change intervals shown in this manual are based on tests carried out on CASE lubricants.*

RF97F136

RB97F100

Oil viscosity/Oil range



CS98M561

(A) FAHRENHEIT TEMPERATURE
(B) CELSIUS TEMPERATURE
(1) ALL SEASONS
(2) WINTER
(3) TROPICAL
(4) ARTIC
(*) USE OF AN ENGINE OIL HEATER, OR AND ENGINE COOLANT HEATER IS REQUIRED.

Fuel

Use fuel which is to ASTM (American Society for Testing and Materials) D975 standard.

Use Grade No 2 fuel. The use of other types of fuel can result in a loss of power and may cause high fuel consumption.

When the temperature is very cold, the use of a mixture of No 1 and No 2 fuel is permitted. See your fuel vendor for winter fuel requirements in your area.

If the temperature falls below the fuel cloud point (point at which wax begins to form) the wax crystals will cause power loss or will prevent the engine from starting.

IMPORTANT : *In cold weather, fill the fuel tank at the end of the day's work, in order to prevent the formation of condensation.*

Fuel storage

Long storage can lead to the accumulation of impurities and condensation in the fuel. Engine trouble can often be traced to the presence of water in the fuel.

The storage tank must be placed outside and the temperature of the fuel should be kept as low as possible. Drain off water and impurities regularly.

Anti-freeze/Anti-corrosion

Use anti-freeze in all seasons to protect the cooling system from corrosion and all risk of freezing.

For areas where ambient temperature is over -36°C, use a blend of 50% ethylene-glycol based anti-freeze.

For areas where the temperature is below -36°C, it is advisable to use a blend of 40% water and 60% anti-freeze.

Environment

Before carrying out any maintenance operation on this machine and before disposing of used fluids or lubricants, always think of the environment. Never pour oil or fluid onto the ground and never place it in leaking receptacles.

Contact your local ecological recycling centre or to obtain information on the correct method of disposing of these materials.

Plastic and resin parts

When cleaning polycarbonate windows, the console, instrument panel, indicators, etc., do not use petrol, paraffin, paint solvents, etc. Use only water, soap and a soft cloth.

The use of petrol, paraffin, paint solvents, etc. will cause discoloration, cracks or warping of these parts.

MACHINE GENERAL SPECIFICATIONS

Engine

Make and model ..... CASE 4T 390
Total SAE power rating at 2800 rpm ..... 79.8 kW (108 hp)
4 stroke, 4 cylinder diesel engine ..... turbocharged
Displacement ..... 3920 cm^3
Bore ..... 102 mm
Stroke ..... 120 mm
Cooling ..... water-cooled
Battery start ..... Two 12-volt batteries, 24 V, 100 Ah

Working specifications

Speed ..... 2000 rpm
Power rating : SAE ..... 68.5 kW (93 hp)
DIN 70020 - DIN 6271 ..... 65 kW (88 hp)
EEC 80/1269 - ISO 9249 ..... 65 kW (88 hp)
Performance maintained up to 3000 m altitude at a temperature of 25°C.
Capacities : Oil sump ..... 10 L
Fuel tank ..... 150 L
Electric fuel tank filler pump ..... optional
Average hourly consumption ..... 12 L/h
Engine and pump assembly mounted on rubber blocks.
Heavy-duty dust filtration.

Hydraulic system

Variable flow circuit with all fuinctions independent and simultaneous.

Working pressure ..... 350 bar
Total capacity of hydraulic reservoir ..... 115 L
Total capacity of system ..... 184 L

2-body pump :

1 variable displacement body for the attachment and travel circuits ..... flow 210 L/min
1 fixed flow body for the upperstructure frame swing ..... flow 44 L/min

Direct drive by flexible coupling.

Installed hydraulic power ..... 55.5 kW (75.4 hp)

Fixed displacement pumps for servo-duties.
Attachment and travel control valves, parallel, closed centre, acting on the “Load Sensing” pump regulation.
Flow rates per function independent of pressures.
Oil cooler with air cooling from engine.

High pressure, multi-spiral hoses
minimum safety factor ..... 2 to 4 times working pressure
Self-lubricating hydraulic swivel.

Electrical system

System voltage ..... 24 volts, negative earth
Batteries ..... two 12-volt, low maintenance batteries
All electrical system safety functions are grouped in an electrical cabinet with a printed circuit.
Instrument panel with printed circuit.
Automatic instrument panel lamp testing.
Two-stage alarm system.
Upperstructure electrical power connection (24 V, 15 Amp.).
Battery master switch.

Upperstructure

All welded frame

Modular structure.
Transverse access walkway to different components.
Sound-proofed, lockable cowling meeting all current regulations.
Tool box with tool set.

Swing

Hydraulic motor with reduction gear and automatic static brake.
Swing speed ..... 7.6 rpm
Turntable bearing ..... Alternate rollers, inner ring gear teeth
Bearing race and ring gear tooth lubrication ..... centralized

Cab

Removable, sound-proofed, on flexible mounting blocks.
Up and over windshield.
Tinted windshield.
Pre-fitted for radio installation.
Sliding window on door.
Transparent roof hatch ..... optional
Polycarbonate windows ..... optional
Cab safety guard ..... available on request
Cab elevator ..... available on request
Anti-vandal cab ..... optional

Operation

De-luxe seat with armrests and multi-position adjustment (vibration level III/ISO 7096).
Hydraulically assisted controls.
Attachment and swing ..... 2 levers
Travel ..... 2 pedals
Speed programmer, also providing automatic speed range change on the two-speed version.
Single-speed windshield wiper, plus intermittent action, windshield washer, heating system, de-frosting, two-speed ventilation, cab light, cigarette lighter, sun shield.
Working/lights :
- On upperstructure ..... 2 x 70/75 W
- On attachment ..... 70 W
- Rear (on cab) ..... 70 W
- Front (on cab) ..... optional

Air conditioning ..... optional
Cab visor ..... optional
Cab fan ..... optional

Undercarriage (depending on version)

Monoblock chassis, with all-welded sections.
Permanently greased rollers.
Tractor type tracks; track tensioning by grease cylinders; shock absorber.
Removable drive sprocket ring gears.
Front chain guide (rear guide optional).

Safety devices

In the event of engine failure, the attachment can be lowered, under control, to the ground.
Cancellation of controls by lifting the left-hand control arm.
Tinted safety-glass windows, horn.
Cab safety guard ..... available on request
Safety valves ..... optional
Overload indicator ..... optional
Inertia type safety belt ..... optional
Fire extinguisher ..... optional
Rotary light ..... specific to certain countries

Indicators

Engine coolant solution temperature, hydraulic fluid temperature, fuel level and hourmeter.

Warning and indicator lamps

Engine oil pressure, battery charge, hydraulic oil filter and engine air filter restriction.
Warning/indicator lamp test.

Attachments

Sealed linkaged, all linkages greased from ground level or from the walkway.
Double acting cylinders fitted with end-of-stroke shock absorbers

Noise level

Certified by the manufacturer.
In accordance with European directive 86/662/EEC.
Internal noise level (LpA) ..... 77 decibels
External noise level (LwA) ..... 101 decibels

Vibration levels in operator's cab

Lower limbs ..... less than 2.5 m/s^2
Body ..... less than 0.5 m/s^2

Ground pressure

With attachment : 4.30 m boom, 2.10 m dipper and 480 L bucket

Machine fitted with 0.50 m pads ..... 0.420 bar

Machine fitted with 0.60 m pads ..... 0.350 bar

Machine fitted with 0.70 m pads ..... 0.310 bar

Machine fitted with 0.85 m pads ..... 0.260 bar

Travel

Drive sprockets powered by hydraulic motors.
Each track driven independently.
Manually controlled travel control block for fine adjustment of travel speed regardless of force exerted on travel pedals.
Travel speed :
(Mono-speed machine). Max. speed ..... from 0 to 3.6 kph
(Two-speed machine). Max. speed ..... first speed : from 0 to 3.6 kph
second speed : from 0 to 5.5 kph
Motor-mounted brakes (automatic static braking).
Gradeability 77%
Tractive effort ..... 10 380 daN
Automatic hydraulic motor speed limiter on downhill slopes.

WEIGHTS

Machine

Boom	Dipper	Pads			
		0.50 m	0.60 m	0.70 m	0.85 m
Monoblock	1.50 m	12 950	13 160	13 375	13 690
	2.10 m	12 970	13 180	13 390	13 710
	2.65 m	13 020	13 230	13 445	13 760
Articulated	1.50 m	13 210	13 420	13 630	13 950
	2.10 m	13 225	13 435	13 650	13 965
	2.65 m	13 275	13 485	13 700	14 015
Offset	1.50 m	13 270	13 480	13 695	14 010
	2.10 m	13 290	13 500	13 710	14 030

NOTE: *Loads shown are in kg with 480 L backhoe bucket.*

Attachments

Booms (with dipper cylinder)
- Monoblock ..... 1015 kg
- Articulated ..... 1270 kg
- Offset ..... 1335 kg

Dipper (with yoke, connecting link and bucket cylinder)
- 1.50 m ..... 505 kg
- 2.10 m ..... 525 kg
- 2.65 m ..... 575 kg

Quick Coupler (optional) ..... 210 kg

Counterweight

2100 kg

Cab

291 kg

BUCKETS

NOTE: *The selection of bucket capacity depends on the density of the material and the attachment configuration in addition to the compactness and structure of the ground.*

Earthmoving buckets

Width	CECE Capacity	Weight
0.60 m	370 L	330 kg
0.75 m	480 L	380 kg
0.85 m	560 L	400 kg
0.95 m	630 L	425 kg
1.05 m	710 L	460 kg

All earthmoving buckets are equipped with teeth with removable tooth tips.
Heavy duty supplement optional (add 5% to the capacity shown).
Side cutters optional (add 8 cm to the width shown).

Trench buckets with ejector

Width	CECE Capacity	Weight
0.35 m	200 L	375 kg
0.45 m	265 L	410 kg

Ditch cleaning buckets equipped with teeth

Width	CECE Capacity	Weight
1.25 m (2)	420 L	340 kg
1.80 m (2)	620 L	455 kg
2.40 m (1)	280 L	395 kg

Ditch cleaning buckets equipped with reversible blade (notched or smooth)

Width	CECE Capacity	Weight
1.25 m (2)	420 L	375 kg
1.80 m (2)	620 L	500 kg
2.20 m (1)	260 L	430 kg
2.40 m (1)	280 L	450 kg

V-shaped bucket

Width	CECE Capacity	Weight
0.35 - 2.10 m	340 L	330 kg
0.50 - 2.60 m	400 L	395 kg

(1) Small profile
(2) Large profile

CLAMSHELLS

Trench clamshell with ejector

Width	Opening	Capacity	Weight
0.32 m	1.45 m	100 L	430 kg
0.47 m	1.45 m	145 L	490 kg
0.65 m	1.45 m	210 L	660 kg

Earthmoving clamshells

Width	Opening	Capacity	Weight
0.79 m	1.36 m	250 L	535 kg
0.96 m	1.48 m	400 L	635 kg

Rehandling clamshells

Width	Opening	Capacity	Weight
0.97 m	1.40 m	400 L	525 kg
1.08 m	1.47 m	550 L	530 kg

Cylindrical boring clamshell

Opening diameter	Capacity	Weight
1.23 m	175 L	565 kg

Rectangular boring clamshells

Width	Opening	Capacity	Weight
0.43 m	0.69 m	70 L	430 kg
0.60 m	1.11 m	130 L	465 kg

Sugar beet clamshell

Width	Opening	Capacity	Weight
1.33 m	2.50 m	1450 L	1100 kg

5-tine stone grab with removable tine tips

Opening diameter	Weight
1.55 m	820 kg
1.56 m (1)	940 kg

(1) With heart-shaped tines

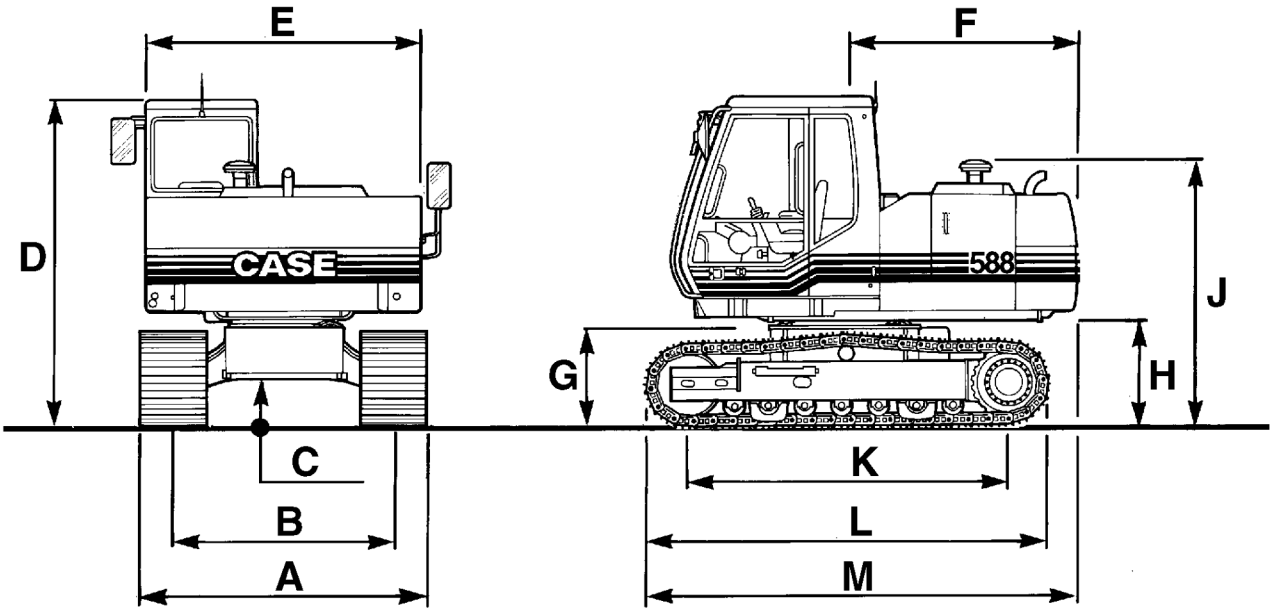
5-tine scrap grab (tines controlled by central cylinder)

Opening diameter	Weight
1.35 m	600 kg

Timber grab

Width	Opening	Capacity	Weight
0.72 m	2.30 m	0.1 - 0.9 m^2	650 kg

MACHINE OVERALL DIMENSIONS



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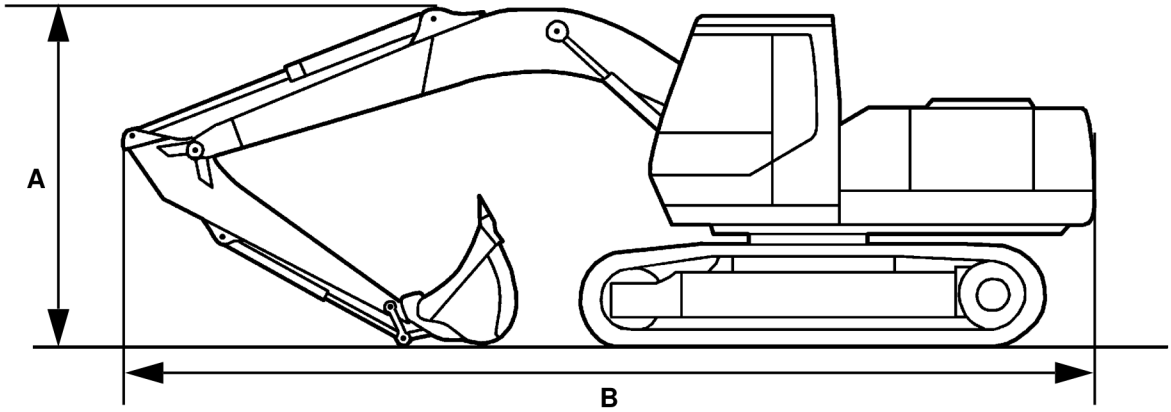
A (pads 0.50 m)	2.47 m
A (pads 0.60 m)	2.57 m
A (pads 0.70 m)	2.67 m
A (pads 0.85 m)	2.92 m
B	1.97 m
C	0.43 m
D	2.94 m
E	2.44 m
F (radius)	2.05 m
G	0.86 m
H	0.95 m
J	2.37 m
K	2.78 m
L	3.55 m
M	3.82 m

TRANSPORTATION OVERALL DIMENSIONS



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NOTE: *For top of cab to ground, see "Overall dimensions".*

Boom	Dipper	A	B
Monoblock	1.50 m	2.50	7.70
	2.10 m	2.65	7.50
	2.65 m	2.95	7.45
Articulated	1.50 m	2.85	8.00
	2.10 m	2.85	7.81
	2.65 m	2.95	7.75
Offset	1.50 m	2,45	7,70
	2.10 m	2,60	7,50

NOTE: *These values are given in metres.*

Section

1002

SPECIFICATIONS

588 WHEELED EXCAVATORS

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TABLE OF CONTENTS

WARNING : *This symbol is used in this manual to indicate important safety messages. Whenever you see this symbol, carefully read the message that follows, as there is a risk of serious injury.*