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JCB

MA[redacted]NE



[redacted]

4CX [redacted] מחפרן

3CX, 4CX ECO

[redacted]

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Safety Notices

Important Information

T1-042

The Operator Manual

⚠ WARNING

You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator Manual. You must understand and follow the instructions in the Operator Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

INT-1-4-2

Do not operate the machine without an Operator Manual, or if there is anything on the machine you do not understand.

Treat the Operator Manual as part of the machine. Keep it clean and in good condition. Replace the Operator Manual immediately if it is lost, damaged or becomes unreadable.

Safety Warnings



This safety alert system identifies important safety messages in this manual. When you see this symbol, be alert, your safety is involved, carefully read the message that follows, and inform other operators.

In this publication and on the machine, there are safety notices. Each notice starts with a signal word. The signal word meanings are given below.

⚠ DANGER

Denotes an extreme hazard exists. If proper precautions are not taken, it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

⚠ WARNING

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

⚠ CAUTION

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

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Identifying Your Machine

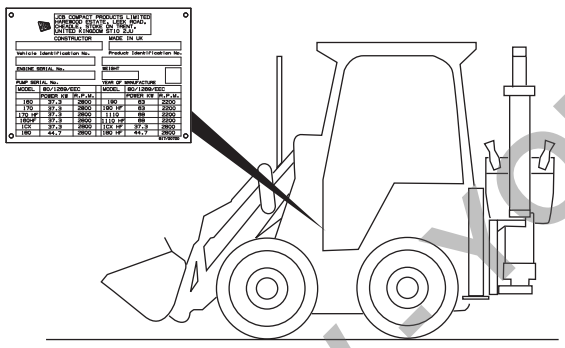
Machine Identification Plate

Your machine has an identification plate mounted as shown. The Product Identification Number (PIN), weight, engine power, year of manufacture and serial number of the machine are shown on the plate.

Note: *The machine model and build specification is indicated by the PIN. Refer to* ***Typical Product Identification Number (PIN)****.*

If the engine is replaced by a new one, the serial number on the identification plate will be wrong. Either get a replacement identification plate from your JCB Dealer or simply remove the old number. This will prevent the wrong unit number being quoted when replacement parts are ordered.

The machine and engine serial numbers can help identify exactly the type of equipment you have.



T020570-2

Fig 4.

Typical Product Identification Number (PIN)

1	2	3	4
JCB	1CXWS	L	01299167

1 World Manufacturer Identification (3 Digits).

JCB = UK Build.

2 Machine Type and Model (5 Digits).

1CXWS = 1CX Wheeled Standard
1CXWH = 1CX Wheeled Hiflow
1CXWE = 1CX Wheeled Easycontrol
1CXHE = 1CX or 1CXT Highflow Easycontrol

1CXTS = 1CX Tracked Standard
1CXTH = 1CX Tracked Hiflow
1CXTE = 1CX Tracked Easycontrol
1CXHE = 1CX or 1CXT Highflow Easycontrol

3 Check Letter (1 Digit).

The check letter is used to verify the authenticity of a machine's PIN.

4 Machine Serial Number (8 Digits).

Each machine has a unique serial number.

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Cab Layout (Manual Controls)

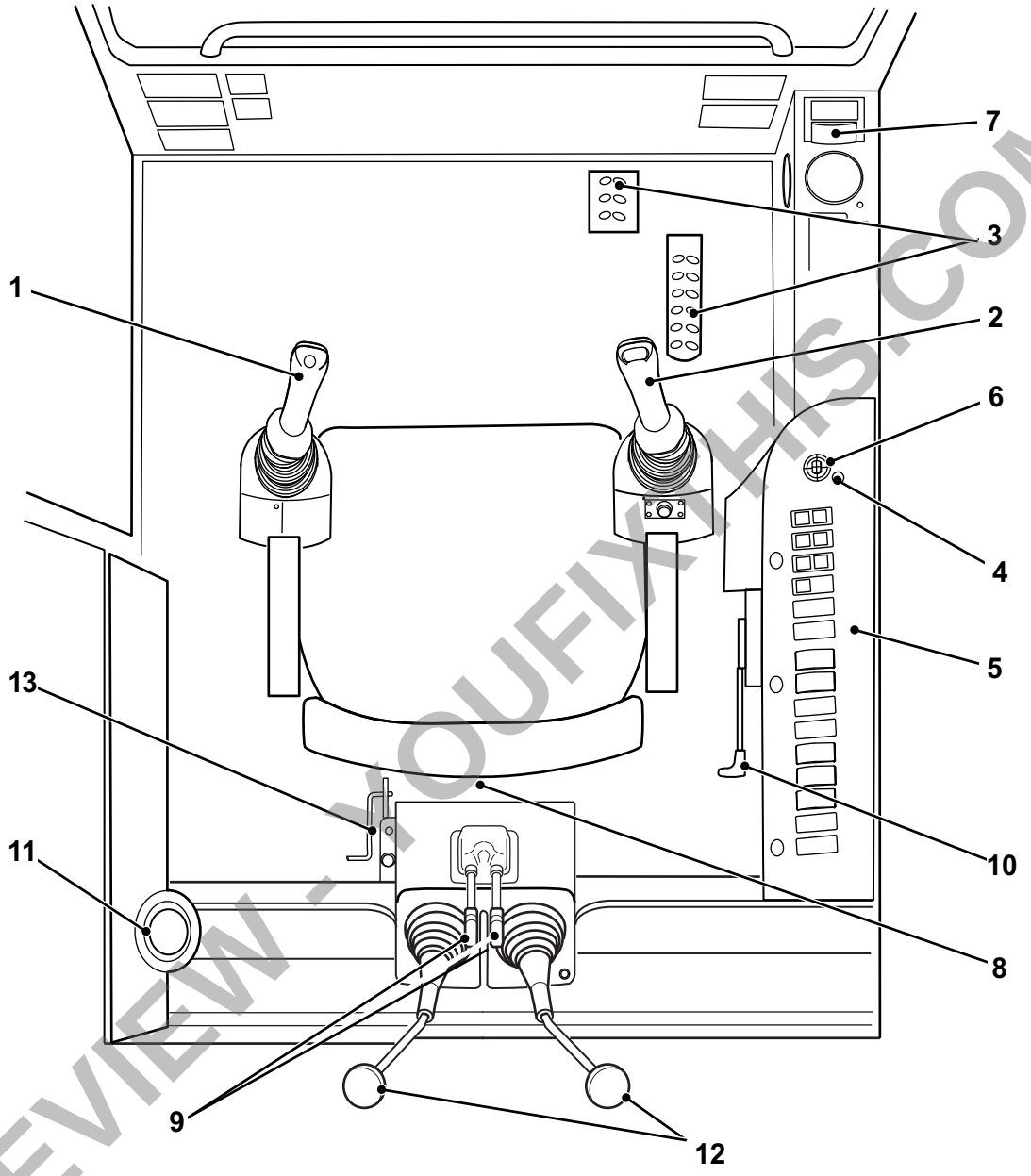


Fig 9.

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Operation

Introduction

T2-006_2

The aim of this part of the manual is to guide the operator step-by-step through the task of learning how to operate the machine efficiently and safely. Read the ***Operation*** section through from beginning to end.

Before you start the machine, you must know how the machine operates. Use your manual to identify each control lever, switch, gauge, button and pedal. Do not guess. If there is anything you do not understand, ask your JCB distributor.

The operator must always be aware of events happening in or around the machine. Safety must always be the most important factor when you operate the machine.

When you understand the operating controls, gauges and switches, practice using them. Drive the machine in an open space, clear of people. Get to know the 'feel' of the machine and its driving controls.

Finally, do not rush the job of learning, make sure you fully understand everything in the ***Operation*** section. Take your time and work efficiently and safely.

Remember

BE CAREFUL
BE ALERT
BE SAFE

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Changing the Fuel Filter Element

1 Stop the engine.

2 Open the bonnet.

3 Place a receptacle under the filter to catch any fuel. Slacken tap **A**.

4 Support the bowl **B** and unscrew bolt **C**. Remove the bolt **C**, remove and discard washer **D** and 'O' ring **E**.

5 Remove filter element **F**, bowl **B** and base **G** as a unit.

6 Discard 'O' ring **H**.

7 Separate element **F**, bowl **B** and base **G**.

8 Remove and discard seals **J** (3 off), discard 'O' ring **L**.

9 Lubricate all seals and 'O' rings with clean fuel oil.

10 Fit new seals **J** (3 off) to base **G**, bowl **B** and element F, fit 'O' ring H to the centre of the element **F**.

11 Fit element **F**, bowl **B**, base **G**, to the head **K**.

12 Insert centre bolt **C** after fitting new washer **D** and 'O' ring **E**. Tighten the bolt **C** carefully by hand to ensure that all seals are correctly seated. Fit new 'O' ring **L** to tap **A** and insert tap into base **G**.

13 Tighten bolt **C** to 8-11 Nm (6-8 lbf ft, 0.8-1.1 kgf m).

14 Prime the Filter.

15 Slacken bleed screw **M**, turn on the ignition to operate the priming pump **P** until fuel spurts from the loosened screw with no entrapped air. ⇒ *Fig 40. (🗋 172)*.

16 Tighten the bleed screw, turn off the ignition, check the filter for leaks. Tighten connections or change seals as required.

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Component Location

Note: *The illustration(s) show a typical machine model; your machine may look different from the model shown.*

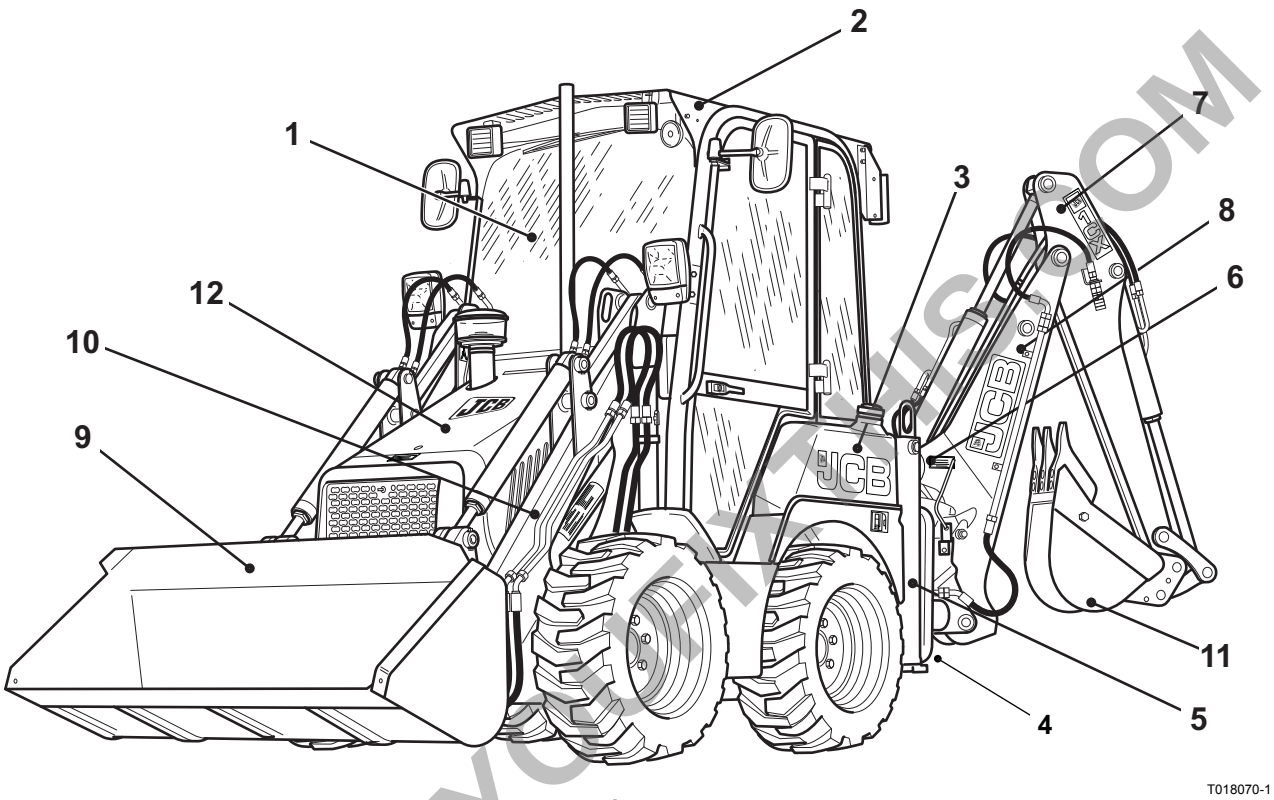


Fig 2.

1 Drive Controls
2 Cab
3 Diesel Fuel Tank
4 Hydraulic Oil Tank
5 Stabilisers
6 Kingpost
7 Dipper
8 Boom
9 Loader Shovel
10 Loader Arms
11 Bucket
12 Engine Cover

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Backhoe Pivot Points

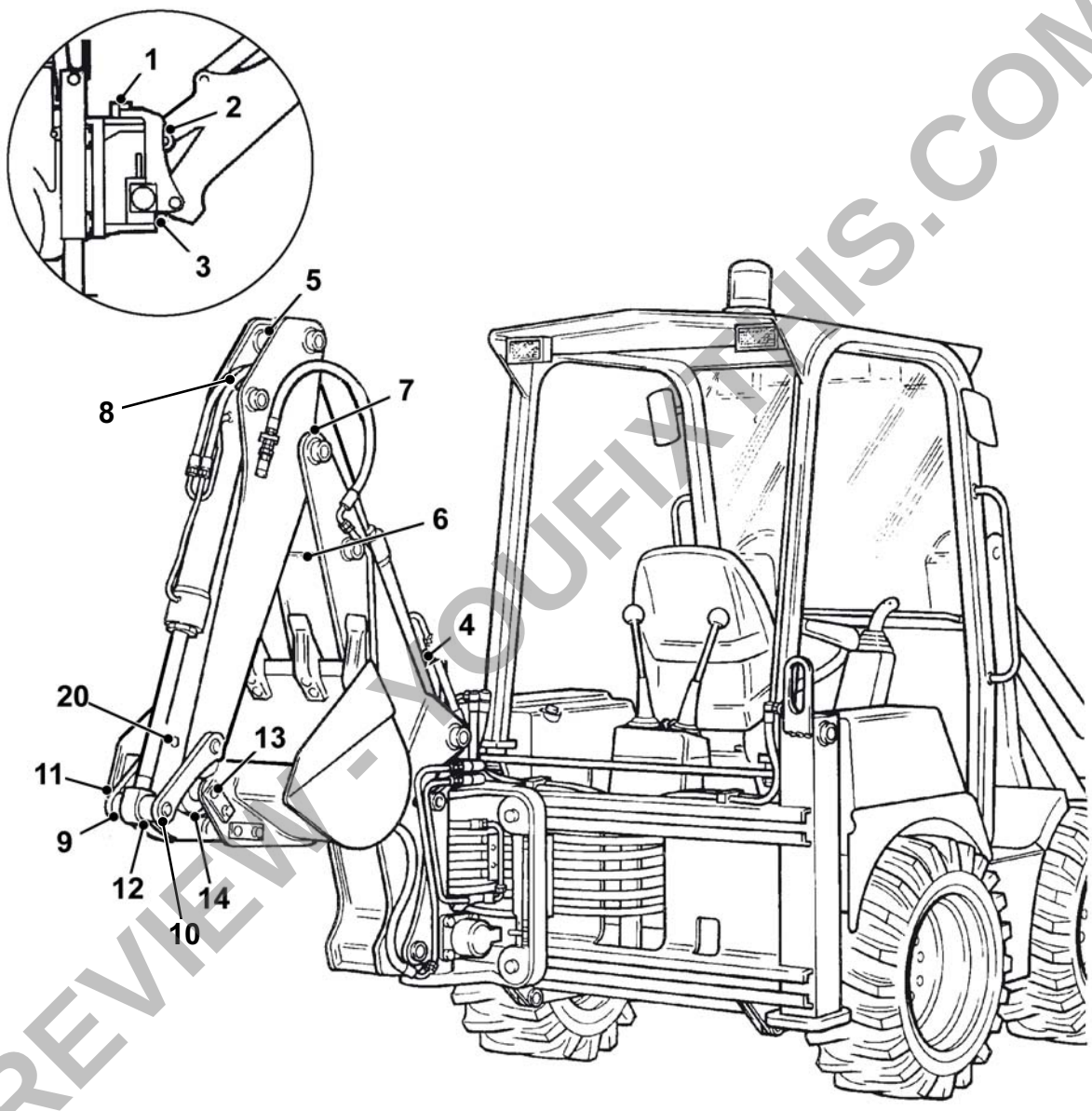
Make the machine safe. ⇒ *How to Make the Machine Safe (Loader Arms Lowered) (139)*.

14 Grease Points

Grease point **5** is at dipper ram eye end.

Grease point **14** is on end of dipper.

Lubricate the kingpost mounting rails and stabiliser legs with diesel oil or Waxoyl.



S203491-1

Fig 10.

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Pre-start Cold Checks, Service Points and Fluid Levels

Note: *More frequent checks of engine components than the engine manufacturer recommends do not invalidate emissions warranty.*

	Operation	10	50	100	500	1000	2000
ENGINE							
Engine and Pump Mount Security	- Check				☐	☐	
Oil and Filter (1)	- Drain and Refill				☐	☐	☐
Coolant Level and Antifreeze Strength	- Check	☐	☐	☐	☐	☐	☐
Coolant	- Change						☐
Air Cleaner Dust Valve	- Clean				☐	☐	☐
Air Cleaner Outer Element (2)	- Change				☐	☐	☐
Air Cleaner Inner Element	- Change					☐	☐
Cylinder Head Nuts	- Change					☐	☐
Valve Clearances - Check and Adjust	- Change					☐	☐
Fan Belt Tension/Condition	- Check	☐	☐	☐	☐	☐	☐
Fan Belt	- Change					☐	☐
Fuel Sedimenter - Drain	- Drain			☐	☐	☐	☐
Fuel Filter - Change	- Change			☐	☐	☐	☐
Radiator Hose - Condition	- Clean			☐	☐	☐	☐
Air Cleaner Hose Security	- Check			☐	☐	☐	☐
Fuel System for Leaks and Contamination	- Check			☐	☐	☐	☐
External Oil Leaks	- Check			☐	☐	☐	☐
Clean Radiator Matrix	- Inspect			☐	☐	☐	☐
TRANSMISSION							
Motor Mounting Bolts - Tightness	- Check			☐	☐	☐	☐
Wheel Nut Security	- Check			☐	☐	☐	☐
Hub Mounting Bolt Security	- Check			☐	☐	☐	☐
Tyre Pressures	- Check	☐	☐	☐	☐	☐	☐
Drive Chain Case Oil Level	- Check				☐	☐	☐
Drive Chain Case Oil	- Change						☐
Drive Chain Tension	- Check and Adjust					☐	☐

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Starting The Engine

1 Read and comply with ***Before Starting The Engine***.

2 Ensure the Drive Control Lever is in Neutral.

If the engine is started with the drive control deflected to either the forward or reverse position the machine will lurch forward or backwards. The control is spring loaded to return to neutral, but ensure that nothing has caused the lever to be deflected.

3 Ensure the Loader Control Lever is in Neutral.

If the engine is started with any of the excavating control levers deflected from their neutral position, some part of the machine may move. The levers are spring loaded to return to their neutral positions, but ensure that nothing has caused any of them to be deflected.

4 Ensure the Auxiliary Attachments Detent and High-flow switches are off.

The engine will not start if either the Auxiliary Attachments Detent Switch or the High-flow switch is on.

5 Park Brake Light

Unless the parking light extinguishes when the brake is switched off no hydraulic pressure will be available to the drive motors even though the engine is running.

⚠ WARNING

Exhaust Gases

Breathing the machine exhaust gases can harm and possibly kill you. Do not operate the machine in closed spaces without making sure there is good ventilation. If possible, fit an exhaust extension. If you begin to feel drowsy, stop the machine at once and get into fresh air.

INT-2-1-10_2

6 Turn Starter Key to pre-position **II** for a few seconds.

Note: *In Cold temperatures (Below -12 degrees C) partly depress the foot pedal to avoid excessive engine revs at start-up. Wait until the glow plugs have been lit for 15 seconds before turning the starter key to position **III**. Hold the key for a maximum of 30 seconds until the engine is clearly firing.*

7 Turn the Starter Key fully clockwise against the spring to position **III** to start the engine. ⇨ ***Starter Switch (43)***.

8 Release the starter key as soon as the engine starts. The switch will return to **I** position.

⚠ WARNING

Do not use ether or other starting fluids to assist cold starting. Using these fluids may result in an explosion causing possible injury and/or damage to the engine.

3-2-1-9

9 Slowly reduce the hand throttle setting to allow the engine to idle.

10 Once the engine has started, check that all the warning lights have gone off. Do not race the engine until the oil pressure low light has gone out. Check that the audible alarm is silent.

Note: *The engine noise and or tone may be louder than usual when cold. This is normal and is due to the fuel injection pump being advanced. The engine will become quieter when the engine reaches normal operating temperature.*

Note: *If any warning lights fail to go off, or come on while the engine is running, stop the engine as soon as it is safe to do so.*

11 Once the engine has warmed up, set the Hand Throttle Control as required.

12 Operate the backhoe a few times to help warm up the hydraulic system.

Do not operate attachments until the hydraulic oil has reached its normal working temperature.

Note: *New engines do not require a running-in period. The engine/machine should be used in a normal work cycle immediately; glazing of the piston cylinder bores resulting in excessive oil consumption, could occur if the engine is gently run-in. Under no circumstances should the engine*

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Checking the Wheel Nut Torques

⚠ WARNING

If, for whatever reason, a wheel stud is renewed, all the studs for that wheel must be changed as a set, since the remaining studs may have been damaged.

2-3-2-8

On new machines, and whenever a wheel has been removed, check the wheel nut torques every two hours until they stay correct.

Every day, before starting work, check that the wheel nuts are tight.

The correct torques are shown in the table below.

Table 12.

Front		Rear	
Nm	**lbf ft**	**Nm**	**lbf ft**
390	288	390	288

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