EXCAVATOR

13. Check that you have suitable personal.

PERSONAL PROTECTIVE

- Wear your protective equipment, and if the excavator is fitted with a seatbelt you must
- Stay aware of what is happening all around Do not assume that other persons or obstacles will get out of your way.

Do not force the excevator to do more than it is capable of. This can cause it to become unstable. Take your time, and work steadily. The job will be done better and safer.

Use the dozer blade, not the side of the bucket to fill the trenches. Take care not to drive forward over a trench: always move back and away from it.

Stay within the cab unless you park up properly. Do not lean out to move obstacles or give assistance.

18.

Always stop on firm level ground away from the work area and other traffic.

At night in public places, work must be lit. The hire company will be able to supply any additional equipment you may require.

In freezing conditions, park the excavator on timbers to prevent the tracks freezing.

- Do not exceed the safe working load (SWL) that will be marked on the body of the
- Watch out for hazardous areas such as soft ground, trenches, or overhead obstacles. 20.
- Be careful on slopes avoid turning on them if possible.
- If there is any possibility of a power cable or gas pipe where you plan to dig, you must not dig with the excavator. Striking a cable or pipe is very hazardous. You can use a cable locator to help trace metal pipes and cables. Contact the hire company if you need one. Lower the bucket and dozer blade, stop the machine, apply the parking brake and remove the key before leaving the excavator unattended.
 - . You must not tamper with the hydraulic system. If your equipment does not work properly do not try to repair it. Contact the hire company.

WORK AREA

OPERATORS

Keep well away from any overhead power lines unless they are at least 5m (16t) above the highest part of the raised bucket. Do not forget that high-voltage electricity can jump across large gaps.

If your work area is complex or noisy, you should work with a banksman.

Check there are no tree branches, scaffolding or anything else you may run Check your work area for soft ground, slopes, holes and trenches, or objects that may damage tracks.

JCB 801 MINI EXCAVATOR

Anybody who is working near the mini excavator will also need to wear appropriate personal protective equipment. If the excavator is fitted with a seatbelt, you must use it. You should wear a reflective vest or similar high visibility garment.

Check your machine, engine, tracks, bucket and all equipment. Do not use anything found damaged – contact the hire company.

Check that there are no underground power cables, gas or water pipes, or other services where you are going to dig. and complies with road traffic regulations. In addition, you must have an appropriate driving licence.

- Do not use this mini excavator where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
- 2. Using this equipment indoors or in confined spaces could cause fatal earbon monoxide poisoning. Never use it in domestic premises and only use it in other indoor situations if its suitability and the ventilation required has been fully assessed. Mechanical extraction ventilation will almost aways be required.

This equipment is likely to cause noise levels up to 100dB(A) - wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum.

You must wear a safety helmet (EN 397 or BS5240) when using this machine on a construction site.

The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use this mini excavator. Particular jobs or environments may require a higher level of protection.

<u>ω</u> Never operate on any public road of highway unless the machine is insured

12. If you are loading an open vehicle such as a dumper, the dumper driver should get off and move a safe distance away.

Never move the excavator adjacent to any trench where men are working.

If a trench is going to be more than 1.2m (4ft) deep, then it should be properly supported with trench props to stop it collapsing. Ask your hire company.

If you damage any telephone or television cable you may have to pay the repair bill.

Before Starting Work...

Useful Reference Points • www.hae.org.uk/businessguard













- 10. Before you start work let the engine run at part throttle, drive into a clear area and carefully practice all control movements and machine actions until you are familiar with them.
- 11. Note the lever controlling the boom and bucket (operated by the right hand) is either floor mounted or built into the arm of the seat, depending on which model you have.

- Never carry passengers on any part of the excavator.
- You must not tow anything with machine.

- 13. Remember that when moving with the cab rotated 180 degrees, the effect of the travel controls will appear to be reversed.

CONTROL LEVER LOCK

Most excavators have a control-locking lever which disables the hydraulic controls. You must release any control lock to start work, and re-engage it when leaving the machine.

Check the excavator over each time you use it. It will have been supplied in good company – you must make sure that it has not been damaged or altered since then.

- 12. The lever controlling the cab slew, boom swing and digger operations (operated by the left hand) is also either floor mounted obuilt into the arm of the seat, depending or built into the arm of the seat, depending or built into the arm of the seat.

- If you do not look the control levers there is a serious risk of unexpected machine movement causing injury or damage, if you accidentally slip over a control lever while getting in or out of the cab.

- If you have not driven this type of excavation before, carefully look at all of the control before. Don't forget before you start the engine. Don't forget that the control laws is may not be in exactly the same place as other machines that you know driven; make sure that you know which is which.

- Do not enter or leave the cab unless the control levers are correctly locked. This done by either raising the left armrest or engaging the lock lever, depending on model.

Do not use the bucket as a temporary work Do not use the excavator as a crane. Contact the hire company if you need a When working on or near a public highway, inside industrial premises, or construction sites, you should operate the excavator's flashing amber beacon.

Boom swing; cab slew; dipper

LEFT HAND CONTROL:

The control lock must be released before you can operate any of the control levers.

The service pedal is under your right foot when you are seated correctly. It pivots, like a see-saw, about its centre and always returns to its 'neutral' position. It is operated by pressing the left side or right side down, and then releasing the pedal. The control lever operated by your left hand has six distinct operations when used in conjunction with the service pedal.

Swing boom left or right

Slew cab left or right To control boom swing with the left-hand control lever, first press the left side of the service pedal and release it. Moving the left-hand control lever to the left swings the boom left, moving it to the right, swings the boom right. When you release the left hand control, the boom will stop.

The slew lock must be off before you can slew the cab left or right. To control cab slew with the left-hand control lever, first press the right side of the service pedal and release it. Moving the left-hand control lever to the left slews the cab left, moving it to the right; slews the cab show the stab right. When you release the right hand control, the cab slew will stop. Bring the dipper in or Push the

dipper out

Pull the eithand control ever towards you to bring the dipper in towards the cab, push it away from you to push the dipper fromward away from the cab. Release the control lever to stop the dipper. The service peal are nbe set either left or right: it has no effect on the dipper control. (Continued overleaf.





















Please store this leaflet safely. It may be required for further information

Turn the ignition key to the off position Remember to remove the key.

Allow the engine to warm up at idle speed for five minutes.

When the engine fires release the I which will return to the ON position (I).

ĸ

If you spill any diesel on your clothes, change them straight away. Put all fuel caps back on properly and leave your fuel container in a safe, cool place.

6. A Certificate of Training Achievement (CTA) for Construction Plant Operators is required on many construction sites. Training to achieve a CTA is available from CITB appointed bodies.

7. You should not right on continuous of the machieve active right are tably experienced in define so.

8. You should have at least the following items of personal protective equipment: ear mids or plugs giving protection for levels up to 100dB(A); safety helmet to EN397 or BS28.40; sturdy shoes as a minimum, ideally safety boots to EN345 or BS1870/4972; high visibility vest or similar reflective

The action of this min excavator can cause injury or damage if the equipment is not used in a careful and controlled way.

You should not drive his excavator unless you have had previous experience, or you have had a course of instruction from a responsible body. Drivers of this vehicle should have at least a current site safely awareness certificate.

5

- If the excavator has been under heavy load, do not switch of engine immediately. Move the throttle to the forward position and allow engine to tick over for a few minutes to cool down.

Set bucket and dozer blade on the ground.

STOPPING THE ENGINE

- In warm temperatures or if the engine is warm turn the key straight to the start position (II).
- 9
- If the engine fails to start, turn the key off for a few seconds then repeat the preheater cycle. 2.

Use clean diesel when refueling. If you do not have a fuel pump use a funnel. Do not spill any diesel on yourself or the excavator.

A single spring loaded control lever on the right side controls the dozer blade. The lever always returns to its central neutral position. To raise the blade pull the lever backwards. To lower the blade, push the lever forwards.

DOZER CONTROL:

To allow the dozer blade to float over the contours of the ground, push and hold the lever in the forward position for as long as you require float facility.

INSURANCE

Under the terms of hire, you are responsible for the safe custody of the machine. You must indemnify the hire company against loss or unreasonable damage such as vandalism. The best way to achieve this is by insurance.

However, you must always secure the machine yourself against theft or vandalism.

Wipe any fuel off the machine. Dispose of diesel soaked cloth carefully. If you spill any fuel on the ground, wipe it up or cover it with soil.

Clean the filler cap and the area around it to prevent dirt falling into the diesel tank.

If possible, drive the mini excavator to safe place away from your work area.

REFUELLING No smoking. Stop the engine and let it cool down.

- For a cold start turn the key to the perheater position (ii) for 1 seconds, note that the glowplug light and alternator light will illuminate while the key is switched on and the engine is not running. Now, turn the key to the start position (i), to engage the starter motor, for about 5 seconds.
- Set all hydraulic controls to their neutral position, move the throttle to its forward (idling) position and insert the ignition key. 3

The hand throttle control also operates as the brake control: pushing it forward to idling speed also applies the brake.

Do not use the service pedal as a footrest.

Operate at an engine speed consist with the job being carried out.

After ensuring it is safe to move off, move the track control levers and adjust the throttle to achieve the desired speed.

Make sure that nobody is within the work area of the excavator. Lowe the bucket and dozer blade carefully to the ground. Their weight will allow this even if the engine is off.

STARTING

In addition, you should be aware that if you cause damage to property belonging to a high party, or if you are involved in a highway accident, it is unlikely that normal insurance policies will give you any protection.

If you are in any doubt about your insurance cover, check with the hire company or your insurer straightaway.

Some hire companies will offer insurance cover at an extra charge.



This machine does not have gears: do not overwork the engine. DRIVING THE JCB 801 MINI EXCAVATOR





JCB 801 Mini Excavator

he rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

you use the 2870 JCB 801 Mini Excavator
Plan your work and think ahead to make sure you will always be working safely.

It is important to read all of this leaflet BEFORE

explosion.
This JCB 801 mini excavator is designed for digging small trenches or excavations, and loading earth moving vehicles from spoil Diesel fuel is highly flammable. Take care not to cause a fire or



PHHIRE UP

2870 Safety Guidance







Pull the right-hand control lever back towards you to raise the boom, push it forward away from you to lower the boom, release it to stop the boom.

Open or Close the bucket
Move right-hand control lever to the right to
poen the bucket, move it to the left to close the
bucket, release it to stop the bucket.

Raise or lower the boom

The control lever operated by your right hand has four distinct operations. The service pedal has no effect on the operations of the right hand control.

RIGHT HAND CONTROL: Boom; bucket