

## JCB 801 Mini Excavator

The 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.



### It is important to read all of this leaflet BEFORE you use the 2870 JCB 801 Mini Excavator

- Plan your work and think ahead to make sure you will always be working safely.
- Diesel fuel is highly flammable. Take care not to cause a fire or explosion.
- This JCB 801 mini excavator is designed for digging small trenches or excavations, and loading earth moving vehicles from spoil heaps.
- The action of mini excavator can cause injury or damage if the equipment is not used in a careful and controlled way.
- You should not drive this excavator unless you have had previous experience, or you have at least a course of instruction from a responsible body. Drivers of this vehicle should have at least a current site safety awareness certificate.
- 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.
- You should not attempt to load or unload the machine from a truck or trailer unless you are fully experienced in doing so.
- You should have at least the following items of personal protective equipment: ear muffs or plugs giving protection for levels up to 100dB(A); safety helmet to EN397 or BS5240; sturdy shoes as a minimum, ideally safety boots to EN345 or BS1870/4972; high visibility vest or similar reflective garment.
- This excavator must not be used by minors, or by anyone under the influence of drugs or alcohol.
- This excavator is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



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For guidance on managing construction health risks go to [www.hse.gov.uk/construction](http://www.hse.gov.uk/construction)

### DRIVING THE JCB 801 MINI EXCAVATOR

- This machine does not have gears; do not overwork the engine.
- Operate at an engine speed consistent with the job being carried out.
- Do not use the service pedal as a footrest.
- The hand throttle control also operates as the brake control; pushing it forward to idling speed also applies the brake.
- After ensuring it is safe to move off, move the track control levers and adjust the throttle to achieve the desired speed.

### STOPPING THE ENGINE

- Set bucket and dozer blade on the ground.
- If the excavator has been under heavy load, do not switch off engine immediately. Move the throttle to the forward position and allow the engine to tick over for a few minutes to cool down.
- Turn the ignition key to the off position.
- Remember to remove the key.

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



### STARTING

- Make sure that nobody is within the work area of the excavator.
- Lower the bucket and dozer blade carefully to the ground. Their weight will allow this even if the engine is off.
- Set all hydraulic controls to their neutral (idling) position, move the throttle to its forward position and insert the ignition key.
- For a cold start turn the key to the preheater position (H) for 10 seconds, note the indicator 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.
- If the engine fails to start, turn the key off for a few seconds then repeat the preheater cycle.
- In warm temperatures or if the engine is warm turn the key straight to the start position (I).
- When the engine fires, release the key, which will return to the ON position (O).
- Allow the engine to warm up at idle speed for five minutes.

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### REFUELLING

- No smoking.
- If possible, drive the mini excavator to a safe place away from your work area.
- Stop the engine and let it cool down.
- Clean the filler cap and the area around it to prevent dirt falling into the diesel tank.
- Use clean diesel when refuelling. If you do not have a fuel pump use a funnel. If you do spill any diesel on yourself or the excavator.
- 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.
- 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.

### RIGHT HAND CONTROL: Boom; Bucket

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.

### Raise or lower the boom

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 for the bucket, release it to stop the bucket.

### DOZER CONTROL:

- A single spring loaded control lever on the right side controls the dozer blade. The right hand control lever for the dozer blade pulls the lever backwards. To lower the blade, push the lever forwards.
- To allow the dozer blade to float over the contours of the ground, push and hold the lever down. Position for as long as you require float facility.

### CONTROL LEVER LOCK

- Do not enter or leave the cab unless the control levers are correctly locked. This is engaging the lock lever, depending on model.
- If you do not lock the control levers there is a serious risk of unexpected machine movement causing injury or damage, if you get in or out of the cab.

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### USING THE JCB 801 MINI EXCAVATOR PERSONAL PROTECTIVE EQUIPMENT

- Wear your protective equipment, and if the excavator is fitted with a seatbelt, you must wear it.
- Stay aware of what is happening all around. Do not assume that other persons or obstacles will get out of your way.
- Stay within the cab unless you park up properly or give assistance.
- Do not exceed the safe working load (SWL). Do not be marked on the body of the excavator.
- Watch out for hazardous areas such as soft ground, trenches, or overhead obstacles.
- 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.
- If you damage any telephone or television cable you may have to pay the repair bill.
- 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.
- Never move the excavator adjacent to any trench where men are working.
- If you are loading an open vehicle such as a dumper, the dumper driver should get off and move a safe distance away.

### Before Starting Work...

Useful Reference Points • [www.hae.org.uk/businessguard](http://www.hae.org.uk/businessguard)



and complies with road traffic regulations. In addition, you must have an appropriate driving licence.

- Check that there are no underground power cables, gas or water pipes, or other services where you are going to dig.
- Check your work area for soft ground, slopes, holes and trenches, or objects that may damage tracks.
- Check there are no tree branches, scaffolding or anything else you may run into.
- Keep well away from any overhead power lines unless they are at least 5m (16ft) above the highest part of the raised bucket. Do not touch any large electricity cables or jump across large gaps.
- If your work area is complex or noisy, you should work with a banishment.

### JCB 801 MINI EXCAVATOR

- Check your machine, engine, tracks, bucket and all equipment. Do not use anything found damaged – contact the hire company.
- Check the excavator over each time you use it. It will have been supplied in good condition, but you must make sure that it has not been damaged or altered since then.

### OPERATORS

- 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.
- 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.
- Do not use the bucket as a temporary work platform.

platform.

- Never carry passengers on any part of the excavator.
- You must not tow anything with this machine.
- If you have not driven this type of excavator before, carefully look at all of the controls before you start the engine. Don't forget that the control levers may not be in exactly the same position as you are used to. You must use it.
- Anybody who is working near the mini excavator must wear a reflective vest or similar high visibility garment.
- If the excavator is fitted with a seatbelt, you must use it.
- Anyone who is working near the mini excavator must wear appropriate personal protective equipment.

### LEFT HAND CONTROL: Boom swing; cab slew; dipper

The control lever operated by your left hand has three distinct operations. The service pedal in conjunction with the service pedal.

### Swing boom 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 right swings the boom left. Moving it left swings the boom right. When you release the left-hand control, the boom will stop.

### Slew cab left or right

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 left 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 right. When you release the right hand control, the cab slew will stop.

### Biting the dipper in or Push the dipper out

Pull the left-hand control lever towards you to bring the dipper in towards the cab, push it away from you to push the dipper forward away from the cab. Release the control lever to stop the dipper. The service pedal can be set either left or right. It has no effect on the dipper control. (Continued overleaf...)

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

In addition, you should be aware that if you are involved in an accident, you may be liable to a third 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.

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