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2803 Safety Guidance
PETROL v:122016

Frank Key. PLANT & TOOL HIRE

JCB Beaver Hydraulic Breaker

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 this entire leaflet BEFORE using the Hydraulic Breaker

1. Petrol is highly flammable. Take care not to cause a fire or explosion.
2. This hydraulic breaker is designed for breaking concrete, stone, tarmac and similar surfaces.
3. The action of this hydraulic powerpack can cause injury or damage if the machine is not used in a careful and controlled way.
4. If you have not used a hydraulic powerpack before, familiarise yourself with the machine on some straight forward work before you start on the main task.
5. Plan your work and think ahead to make sure you will always be working safely.
6. You must have at least the following items of personal protective equipment:

   Goggles: Impact resistant EN166 – B or BS2092 GRADE 1

   Ear muffs or plugs giving you protection for levels up to 110db(A)

   Safety boots to EN345 or BS1970/4972

   Gloves.
7. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
8. This hydraulic breaker 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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HYDRAULIC SAFETY

1. Hydraulic oil is dangerous, keep it away from eyes and mouth, and wash it off your skin immediately.
2. The hydraulic system has been checked and topped up by the hire company. You only need to check the hydraulic oil level by looking at the sight glass. If the oil level is low contact the hire company.
3. If you get hydraulic oil on your clothes change them immediately.
4. The hydraulic oil is pressurised up to 125 bar (1800 psi). Do not attempt any repair or adjustment.
5. Do not try to stop a leak by pressing a thumb over it. Hydraulic oil under pressure can penetrate the skin with serious results. It is also very hot. Keep clear of leaks.

USING THE BREAKER HYDRAULIC POWERPACK

1. Wear your protective equipment including ear defenders and safety boots.
2. Do not operate the breaker until the tool is on the work surface. Do not operate the breaker if the tool has no load.
3. Watch out for signs that vibration may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from using the breaker. Exercise your fingers to encourage blood circulation.
4. To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm – wearing gloves may help do this.
5. Always start each operation with the breaker at the right angles to the work surface to prevent the tool skating across the surface to be broken.
6. On solid concrete area use a point. Start near the edges and work to a pattern.
7. Do not use the breaker as a lever to prise open the work area.
8. Do not try to lever free a tool jammed in the work surface. Instead release the tool from the breaker and insert another one. Use this second tool to break up the ground and free the first tool.
9. Keep the hydraulic hoses clear of your work area.
10. Do not stretch the hoses as you extend your work area, move the power pack.
11. Do not drag the power pack by pulling on the hoses.
12. If you think a hose is damaged or leaking, stop work, stop the engine and release the pressure by moving the flow control lever to minimum and squeezing the trigger on the breaker.
13. Stop the engine before leaving the equipment unattended.
14. If you think the equipment is faulty, or does not work properly do not attempt to repair it, contact the hire company.
15. You may want to read this leaflet again. Please keep it until you finish work.

Please keep this leaflet safely as it may be required for future reference

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Before Starting Work...

WORK AREA

1. Do not use this power pack 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** carbon 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 always be required.
3. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
4. Protect other people from the noise, debris and dust. Warn others to keep away, put barriers around your work area.
5. The hydraulic breaker may damage pipes or cable buried under the surface.

OPERATORS

1. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use this hydraulic powerpack. Particular jobs or environments may require a higher level of protection.
2. You must wear impact resistant goggles (EN166 – B or BS2092 grade 1) when you are working with this hydraulic breaker.
3. This hydraulic breaker is likely to cause noise levels up to 110 db(A) – wear appropriate are muffs or plugs giving hearing protection for this level as a minimum.
4. You must wear safety boots (EN345 or BS1870/4972).
5. Anybody who is working near to you will also need to wear appropriate personal protective equipment.

BREAKER HYDRAULIC POWERPACK

1. Check all your equipment, including hoses, power pack and the breaker. Do not use anything found damaged – contact the hire company.
2. Check that the hoses have no cuts, abrasions or bulges in them.
3. Check that the quick release, self-sealing hose couplings are clean before connecting them.
4. Check that the power pack is sited firmly and safely near to your work area.
5. Check engine oil and fuel levels each day before starting work. Check levels more often if the breaker is not used continuously.
6. The flow control lever should be set to 'max' position while working.
7. In cold weather let the machine warm up before starting work
8. Always grip the hydraulic breaker correctly with two hands while working.
9. This breaker must only be used in a position below waist height – it is too heavy for any other use.
10. Vibration from using this hydraulic breaker can be hazardous. Warm up your hands before you start work, and wear gloves to keep your hands warm while you are working.
11. Make sure that you understand all of the controls. Before you start the machine you must know how to stop it.

ACCESSORIES

1. Switch off the power pack before you change a tool bit.
2. This breaker can only use the tool bits specifically for it. Do not use any other bits.
3. The tool bit shank should be clean and lightly oiled before insertion into the breaker.
4. Do not attempt to uncouple the hydraulic hoses while the system is pressurised. Stop the engine and release the pressure by moving the flow control lever to minimum and squeezing the trigger on the breaker.
5. Do not drop the disconnected hose couplings on the ground where they might get dirty – keep them clean.

REFUELLING

1. No smoking.
2. Stop the engine and let it cool down.
3. If possible move the machine away from your work area.
4. Clean the filter cap and the area around it to prevent dirt falling into the fuel tank.
5. Use a funnel and clean petrol when refuelling. Do not spill any fuel on yourself or the machine.
6. Wipe any fuel off the machine. Dispose of fuel soaked cloth carefully.
7. If you spill any fuel on the ground, wipe it up or cover it with soil.
8. If you spill any fuel on your clothes, change them straight away.
9. Put all fuel caps back on properly, and move your fuel can to a safe, cool place.

STARTING THE ENGINE

STARTING FROM COLD

1. The engine may have a low oil warning system that will prevent the engine from starting, or stop the engine from running if the oil is too low.
2. If the oil system has stopped the engine oil warning light will flash as you pull the starter cord. Check the oil level before you try to start the engine. If the oil is low contact the hire company.
3. Open the fuel valve, which is located under the choke lever by the starter pull handle.
4. Close the choke lever.
5. If your power pack is equipped with an engine switch, turn it to the ON position.
6. The throttle operation is automatic on this equipment.
7. With your left hand, pull out the starter handle slowly until you can feel that the starter has engaged with the engine, and then pull it quickly and strongly. Don't pull it too far, or it may break.
8. Guide the cord back into place so that it recoils correctly.
9. If the engine is now running set the choke control to half position. You can open it gradually as the engine warms up.
10. If the engine did not start, check that there is sufficient petrol and oil, and that all the controls are in the correct position.
11. In cold weather, you may need to let the engine warm up before starting work.

STARTING FROM WARM

1. Set the choke lever to the fully open position and check that the fuel valve is open.
2. Follow the rest of the instructions from instruction 5 onwards, given in the section "Starting from cold" above.

STOPPING THE ENGINE

1. Push in the stop button on the main panel of the power pack to stop the engine immediately.
2. Close the fuel valve.
3. If your power pack is equipped with an engine switch, close the fuel valve and turn the engine switch off.

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