

Once released, extract the bit carefully without using the machine as a lever, tease the bit from the work by pushing then pulling.. Check for the reason why the bit jammed and take the necessary action to prevent it occurring again.

If breaking...

On first contact with the surface, the breaker/steel will try to wander off line. Take great care until you become familiar with the tool.

Begin slowly, allowing the steel to mark the surface, this will stop the steel from wandering over the work surface and causing unnecessary and expensive damage.

Never apply too much pressure, let the breaker/steel work at its own pace.

Lift it clear before turning OFF, and wait for moving parts to stop before putting it aside.

If the steel becomes jammed in the work DO NOT use the breaker as a lever. Tease the steel from the work by pushing then pulling.

If the steel strikes a hidden object, stop the machine immediately then check to make sure it is safe to continue.

Where possible, **concentrate on weak spots in the structure you are breaking - mortar joints, cracks etc.** Alternatively, start close to an edge and gradually work inwards.

Whatever you are doing...

Take your time, rushing a job tends to produce poor results and increases the risk of a serious accident.

Don't overdo it - you are more likely to have an accident if you are suffering from fatigue.

EQUIPMENT CARE

Never push the equipment beyond its design limits.

If it will not do what you want with reasonable ease and speed, assume you have the wrong tool for the job. Contact your local HSS Hire Shop for advice.

Never let the bit or motor over -heat. Stop work at frequent intervals and run the machine for a minute or so, just holding it in your hands. The air drawn in and around it will cool everything down and prevent damage.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Regularly check that the air vents in the machines body are clear. If these become blocked with dust, clean them out using a soft brush before continuing, taking care not to push dirt in.

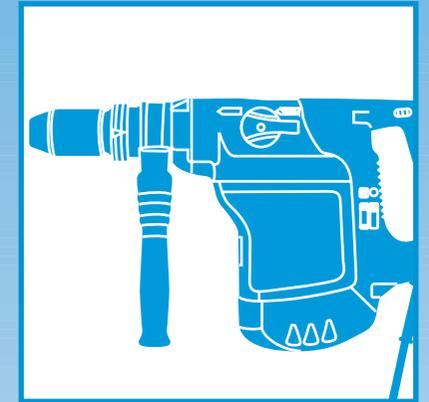
Avoid hitting or dropping the machine. As a heavy blow will damage its casing.

When not in use, **store the equipment somewhere clean, dry and safe** from thieves.

FINISHING OFF

Remove the steel / bit and give the unit a final clean up ready for return, to your local HSS Hire Shop.

HSS Hire Shops



Heavy Duty ATC Combi- Hammer

A Combi-Hammer incorporating Active Torque Control. Designed for drilling and breaking all types of masonry and most concretes.



...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below
Fax: 020 8687 5001

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Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

Web Site: <http://www.hss.com>

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GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using either cones, barriers or tape, available for hire from your local HSS Hire Shop.

  Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Safety goggles MUST be worn by everyone in the work area.

 This equipment generates potentially harmful noise levels. To comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.

 Some materials when drilled contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact your local HSS Hire Shop for details.

   Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Stop the machine if you experience discomfort or numbness during use.

Always switch OFF the equipment when not in use. Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at your local HSS Hire Shop.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

Never lift or pull this equipment by its power supply cable.

Take extra care when drilling into walls or floors, they may contain hidden pipework, reinforcing bars or electrical cables. If in doubt, hire a cable avoiding tool or metal locator, to determine the exact position of such hazards.

Watch your footing. Take special care if working other than on firm, level ground. Above ground level, always

work from a stable, purpose-made work platform. Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty.

Always disconnect the machine from its power supply before making adjustments to it. Check that you have removed all spanners before restarting.

Having switched OFF, always wait for moving parts to come to rest.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

ELECTRICAL SAFETY

Most HSS Heavy Duty Combi Hammers plug into a standard 230V 13amp power socket. However, 110V models (with a round yellow plug) must be provided with a suitable 110V generated supply, or powered from the mains via a suitable 110V transformer.

If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Keep cables out of harm's way, and clear of the work area.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Keep the equipment dry, using electrical equipment in very damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire Shop. Or power the equipment from a mains circuit with a built in RCD.

Ensure the machine and power socket are switched OFF before plugging into the power supply.

GETTING STARTED

This machine is supplied in a carrying case and you may find that the side handle will need to be fitted. Ensure the handle is located correctly and securely tightened in place by turning the handle grip clockwise.

NOTE The side handle MUST be fitted and used.

Fit the machine with the correct drill bit or breaker steel for the job. Always clean the bit before fitting it or dirt could build up in the chuck and damage it.

Insert either the drill holder or breaker steel into the chuck and rotate it while applying slight pressure until it engages. Push further until it clicks into position.

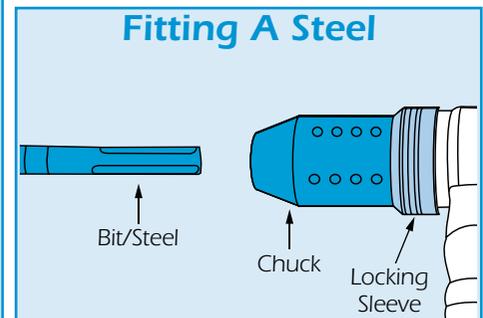
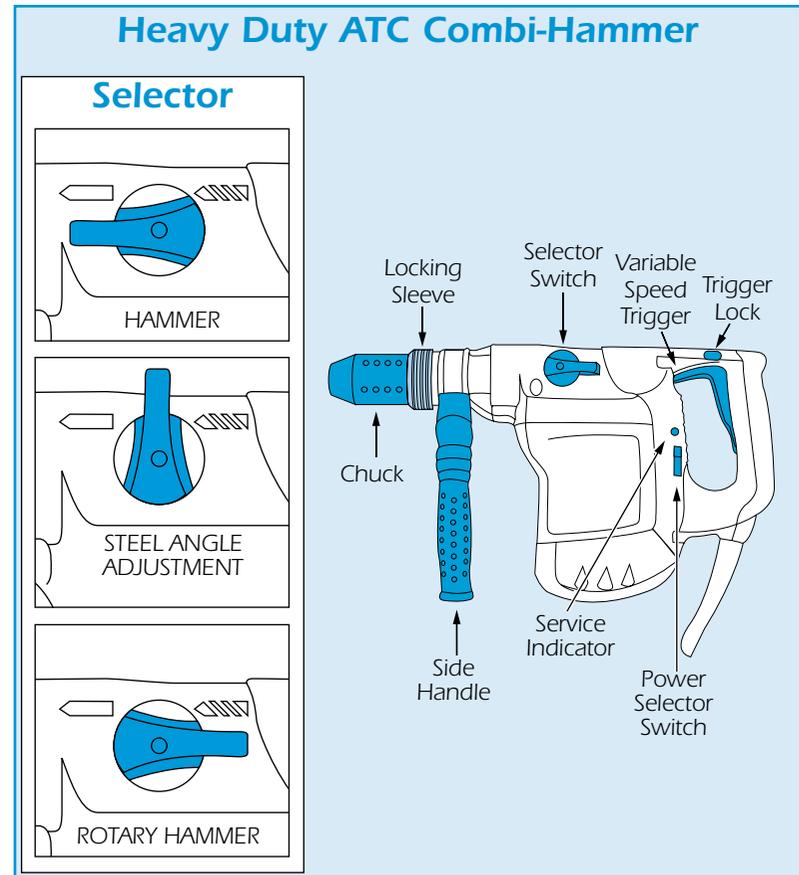
Take care, never force the bit in. If the fit is at all tight, return the equipment to us.

To remove the bit, pull the chucks locking sleeve back and pull the bit out of the chuck.

You will need to select the correct action to suit the bit or steel being used. Simply turn the selector to the correct symbol (see illustration).

For hammer action only, select position 1. Where a wide chisel is being used, you can set the position of the chisel when the selector is in Position 2.

For rotary action with hammer select position 3.



Drill Bits

Core bits are designed for drilling large holes in concrete, stone and brickwork. Drilling must be done in small stages. Stop and empty the waste material from inside the core drill. For deep holes extension bars are available.

Sizes: 40mm - 150mm

Solid masonry drills are available in a variety of lengths and diameters.

Pre -drilling may be required for larger drill bits in very hard materials.

Sizes: 13mm - 40mm

You can select the required drilling/chiselling power. Move the power selector switch to 'II' for full power or 'I' for half power.

Finally, plug the unit into its power supply and switch the supply ON.

BASIC TECHNIQUES

To start the machine, squeeze in the variable speed trigger, to stop simply release the trigger.

Note that the trigger lock can only be activated when breaking and is inoperable when drilling.

Hold the machine in both hands and adopt a stable stance that gives a good view of the work while keeping you clear of the bit.

Do not work in areas where you are forced to stand on loose debris or on a slippery uneven surface.

If possible, drape the machines power supply cable over one shoulder to keep it clear of the bit, but make sure there is still enough slack so you are not restricted in movement.

If drilling...

Start drilling slowly and carefully. Once the hole is established, concentrate on drilling in a straight line with the drill at right angles to the surface, where appropriate.

The more the trigger is squeezed, the faster the drill runs.

Apply just enough pressure to achieve a steady rate of penetration. Too much or too little pressure will overheat and/or blunt the drill bit and could damage the electric motor.

When drilling into hard material such as masonry, withdraw the bit from time to time, keeping the drill running, in order to cool it and the drill motor. This will also clear waste from the hole.

When drilling large diameter holes with TCT bits, drill a small pilot hole first then drill again with a larger bit, until the correct size is achieved.

During drilling, if the bit jams, the ATC system will activate almost immediately and stop the motor from rotating. If this happens, you will only be able to restart the machine once the trigger has been released.