4. Push the magazine cover up until it snaps closed.
5. Load the cartridge strip (narrow end first) by inserting it into the bottom of the tool grip until flush.
6. If a strip has been partly used, pull it through until a live cartridge is in the chamber. The last visible number on the back of the cartridge strip indicates which cartridge is next to be fired.
7. When the indicator (on the side of the magazine) shows red, there are three or less nails remaining. A strip of 10 nails may be loaded. All nails in the magazine must be the same length.

Unloading

1. Remove the cartridge strip by pulling it upwards out of the tool.
2. Release the magazine cover by pressing the release button.
3. Pull the magazine cover down as far as it will go.
4. Remove any nail strip from the magazine.
5. Push the magazine cover up until it snaps closed.

Fastening

1. Press the tool firmly against the work surface at right angles.
2. Fire the tool by pulling the trigger.
3. Do not try to fasten in an existing hole.
4. Do not try to re-drive the same fastener twice (i.e. after a failed cartridge).
5. Do not exceed the maximum fastener-driving rate.

Misfire

1. If a cartridge misfires or fails, proceed as follows.
2. Keep the tool pressed up against the workpiece for a further 30 seconds.
3. If the cartridge still fails to fire, withdraw the tool from the work surface taking care not to point it at yourself or any other person.
4. Keeping hands and body away from the muzzle. Manually advance the cartridge strip to the next cartridge and continue using the tool to use up other remaining cartridges on the strip.
5. Remove the used, or part used cartridge strip by pulling it upwards out of the tool; and either keep it safe to return to the hire company or dispose of it properly and safely.
6. If two or three misfires occur in succession, with less noise, less power and the fastener not being driven home, stop using the DX460 immediately. Contact the hire company.
7. Keep all failed cartridges secure in a separate box to unused cartridges. Return them to the hire company.

For guidance on managing construction health risks go to
www.hse.gov.uk/construction

Using the DX460 Cartridge Hammer

1. Wear your protective equipment including ear defenders and goggles.
2. Use both hands to hold and fire the cartridge hammer.
3. Do not indulge in any horseplay or irresponsible behavior, while using or working near the cartridge hammer.
4. Never carry cartridges loose in a pocket. Do not carry them loose in a box with metal fasteners.
5. Do not carry a loaded hammer from place to place.
6. Do not use the DX460 on brittle surfaces, like glass, marble, plastics, bronze, brass, glazes, tiles, hollow brick or cast steel, they will crack or shatter.
7. Do not use this tool on plasterboard or partitioning. Use it only on structural steel, masonry or similar material. Do not use it on modern housebricks, they will shatter.
8. Do not try to use an existing hole in the material you are fastening. Always move to a new position.
9. Do not try to use on top of old or broken fastenings. It could cause distortion or miss location. It could be dangerous.
10. As a safety measure the hammer will not fire until the muzzle is pressed home against the workpiece before pulling the trigger.
11. Clean and lubricate this hammer regularly.
12. After approximately 3000 fixings the Hilti DX460 should be returned to the hire company for thorough cleaning and servicing.
13. When you have finished work, unload and clean the cartridge hammer and store it and the cartridges securely.
14. If your equipment is faulty, 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 store this leaflet safely. It may be required for further information

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v:032017

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2518 Safety Guidance

v:032017

DX460 Cartridge Hammer

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. This leaflet is not a substitute for a properly executed risk assessment.

It is important to read all of this leaflet BEFORE you use the DX460 Cartridge Hammer

1. Plan your work and think ahead to make sure you will always be working safely.
2. Powder actuated hammers can be hazardous if misused. They should be used carefully and only by trained personnel.
3. The noise levels produced by this equipment can damage your hearing.
4. You should have attended a recognised training course before you can use the DX460.
5. The Hilti DX460 is designed to fix a variety of materials to concrete, masonry and steel using the appropriate fasteners.
6. The action of the DX460 can cause injury or damage if it is not used in a correct, careful and controlled way.
7. If it has been some time since you used the Hilti DX460, familiarise yourself with it again and with the safety requirements before you start work.
8. You must wear the following items of personal protective equipment: ear muffs or plugs giving protection for levels up to 108 dB(A); impact resistant goggles; EN166 – B or BS2092 grade 1; dust mask – a minimum of EN149:2001 FFP3 protection; safety boots (EN345 or BS1870/4972); safety helmet – EN397 or BS5240; gloves.
9. This Hilti DX460 must not be used by minors, or by anyone under the influence of drugs or alcohol.
10. Cartridge hammers are designed for operation by an able-bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using them.

Every effort has been made by HAE/EHA to ensure that the information given in this document and supporting material is accurate and not misleading. HAE/EHA cannot accept responsibility for any loss or liability perceived to have arisen from the use of any such document/material. Only Acts of Parliament and Statutory Instruments have the force of law and only the courts can authoritatively interpret the law.

SAFETY REQUIREMENTS

1. Before you can use the Hilti DX460: You must be over 18 years old; You must have attended a recognised training course; You need normal colour vision to recognize the different colour and strength of cartridges; You must be aware that the Hilti DX460 can produce noise levels up to 108 dB(A), which can seriously damage your hearing.
2. Powder actuated hammers can be hazardous if misused. They should be used carefully and only by trained personnel.
3. The noise levels produced by this equipment can damage your hearing.
4. You should have attended a recognised training course before you can use the DX460.
5. The Hilti DX460 is designed to fix a variety of materials to concrete, masonry and steel using the appropriate fasteners.
6. The action of the DX460 can cause injury or damage if it is not used in a correct, careful and controlled way.
7. If it has been some time since you used the Hilti DX460, familiarise yourself with it again and with the safety requirements before you start work.
8. You must wear the following items of personal protective equipment: ear muffs or plugs giving protection for levels up to 108 dB(A); impact resistant goggles; EN166 – B or BS2092 grade 1; dust mask – a minimum of EN149:2001 FFP3 protection; safety boots (EN345 or BS1870/4972); safety helmet – EN397 or BS5240; gloves.
9. This Hilti DX460 must not be used by minors, or by anyone under the influence of drugs or alcohol.
10. Cartridge hammers are designed for operation by an able-bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using them.

WORK AREA

1. Only essential people should work in the area when the DX460 is being used. Definitely no children.
2. Do not use the DX460 where there is a danger of explosion, it will ignite fumes from petrol or gas cylinders.
3. Make sure that your work area is clear and safe and that no-one is near to you or could distract you.
4. Protect other people from the noise and danger. Warn others to keep away. You may need to put barriers around your work area.

OPERATORS

1. Do not use this tool if you feel unwell or if you are unable to concentrate on the task in hand.
2. Do not use this tool from an awkward or uncomfortable position. Find a way to get into a suitable position before working.
3. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever you use the Hilti DX460. Particular jobs or environments may require a higher level of protection.
4. This DX460 will cause noise levels up to 108 dB(A) – wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum.
5. You must wear impact resistant goggles (EN166 – B or BS2092 grade 1) when you are working with this equipment.
6. You must wear safety boots (EN 345 or BS1870/4972).
7. Wear a helmet (EN397 or BS5240) when working with the cartridge hammer.
8. Strong gloves will help protect your hands.
9. Anybody who is working near to you will also need to wear appropriate personal protective equipment.

HILTI DX460

1. Check your cartridge hammer, cartridges and fasteners. Do not use anything found damaged – contact the hire company.
2. Do not load the DX460 until it is required for immediate use. It should remain unloaded and put safely away when not in use.
3. The DX460 will operate as a single fastener tool; or can be fitted with a magazine (see loading).
4. To guard against accidental firing, the Hilti DX460 will not fire until; first – the muzzle is depressed against the workpiece, second – the trigger is pulled while the muzzle remains depressed. The DX460 will not fire the trigger is pulled before depressing the muzzle.
5. Do no deliberately pull back the muzzle (or magazine if fitted) or a loaded tool; this removes the safety device and will allow the tool to fire when trigger is pressed.
6. Cartridges must be stored in a locked metal box.
7. Do not point the DX460 at anyone, even when it is not loaded. Get into the habit of not pointing it at people.
8. Never point the barrel at any part of your body at any time.
9. You must always unload the DX460 before cleaning or changing parts or when finished work. TAKE CARE the tool gets very hot in use.
10. The DX460 has a standard piston for normal application. It is also available with several special purpose pistons for different applications – do not use a different fastener until you have checked with the hire company.
11. Before you start work, make sure you understand how to use the DX460 safely with no danger to yourself or others.

POWER REGULATION WHEEL WITH LOCKING FUNCTION

1. Start with the lowest power cartridge and tool set at the lowest power setting.
2. Press the release button.
3. Turn the power regulation wheel to 1.
4. Drive a nail.
5. If the fastener doesn't penetrate deeply enough, increase the power level and repeat steps two to four.
6. Repeat these steps until the desired depth of penetration is reached. Use a more powerful cartridge if necessary.

ACCESSORIES

1. There are many accessories available for the DX460 including several piston types, and many different fasteners. Check with the hire company.

CARTRIDGE HAMMER SAFETY

1. Always, before use and after use, check there is no cartridge in the tool.
2. Always ensure that your cartridges and fasteners are suitable for the tool and the job.
3. Always use the tool at right angles to the work surface.
4. Always check to see there is a fastener in the hammer or magazine before loading the cartridge.
5. Always use eye protection.
6. Always keep the tool pointed away from yourself and others.
7. Always keep the hammer in the case when not in use.
8. Always use the weakest cartridge that will do the job – see your hire company. See also the colour code below.
9. Wear your safety equipment.
10. Keep your fingers away from the trigger, especially when loading or unloading, until you intend to fire.

CARTRIDGES

1. Always store cartridges in a safe, dry place, preferably a locked box. Do not allow ANY mishandling.
2. Faulty cartridges are more hazardous than good ones, store them separately, return them to the hire company or dispose of them safely.
3. There are primarily four different cartridges suitable for the DX460, as described below.

They are:

Order Code	Colour Code	Power Level
6.8/11green	Green	Low
6.8/11yellow	Yellow	Medium
6.8/11red	Red	Heavy
6.8/11black	Black	Extra Heavy

OPERATION SINGLE FASTENER TOOL

Loading

1. Insert the fastener (head first) until the washer is held in the tool.
2. Load the cartridge strip (narrow end first) by inserting it into the bottom of the tool grip until flush.
3. If a strip has been partly used, pull it through until a live cartridge is in the chamber. The last visible number on the back of the cartridge strip indicates which cartridge is next to be fired.

Unloading

1. Remove the cartridge strip by pulling it upwards out of the tool.
2. Remove the fastener from the fastener guide.

Fastening

1. Press the tool firmly against the work surface at right angles.
2. Fire the tool by pulling the trigger.
3. Do not try to fasten in an existing hole.
4. Do not try to re-drive the same fastener twice (i.e. after a failed cartridge).
5. Do not exceed the maximum fastener-driving rate.

Misfire

1. If a cartridge misfires or fails, proceed as follows.
2. Keep the tool pressed up against the workpiece for a further 30 seconds.
3. If the cartridge still fails to fire, withdraw the tool from the work surface taking care not to point it at yourself or any other person.
4. Keeping hands and body away from the muzzle. Manually advance the cartridge strip to the next cartridge and continue using the tool to use up other remaining cartridges on the strip.
5. Remove the used, or part used cartridge strip by pulling it upwards out of the tool; and either keep it safe to return to the hire company or dispose of it properly and safely.
6. If two or three misfires occur in succession, with less noise, less power and the fastener not being driven home, stop using the DX460 immediately. Contact the hire company.
7. Keep all failed cartridges secure in a separate box to unused cartridges. Return them to the hire company.

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