



GB Hammer Drill

Instruction manual

ID Bor Palu

Petunjuk penggunaan

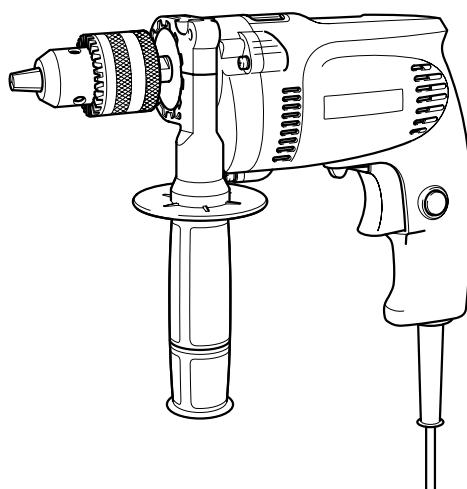
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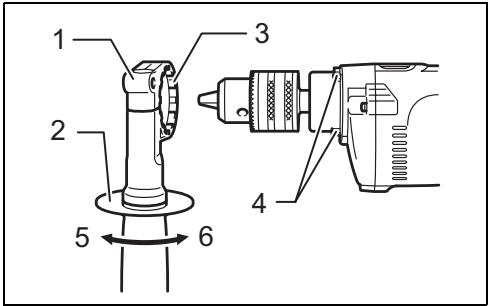
Tài liệu hướng dẫn

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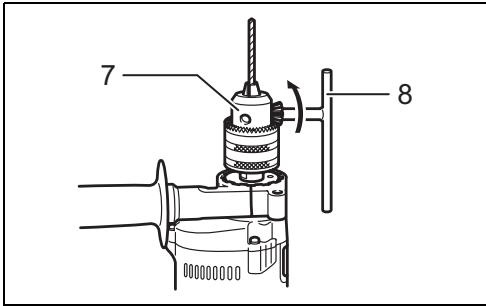
**M804
M814**





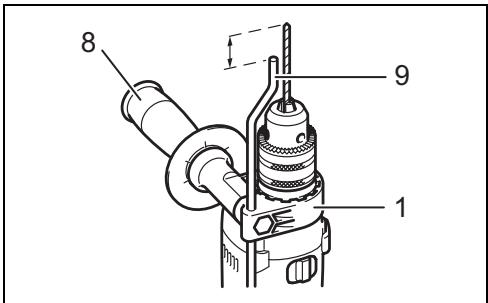
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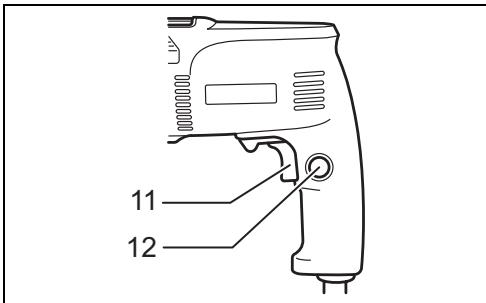
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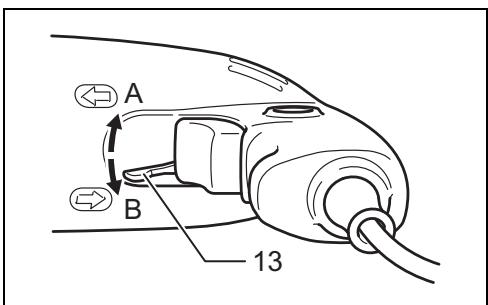
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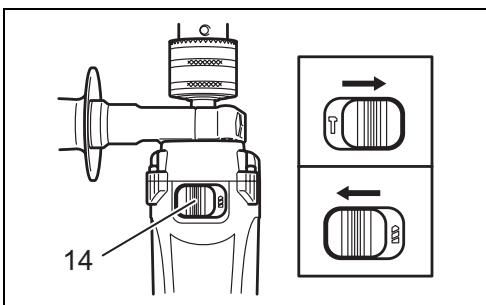
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ENGLISH

Explanation of general view

- | | | |
|---------------------------------|-----------------|--------------------------------|
| 1. Grip base | 6. Tighten | 11. Switch trigger |
| 2. Side grip (auxiliary handle) | 7. Drill chuck | 12. Lock button |
| 3. Teeth | 8. Chuck key | 13. Reversing switch lever |
| 4. Protrusion | 9. Side grip | 14. Action mode changing lever |
| 5. Loosen | 10. Depth gauge | |

SPECIFICATIONS

Model		M804	M814
Capacities	Concrete	16 mm	13 mm
	Wood	30 mm	18 mm
	Steel	13 mm	13 mm
No load speed (min ⁻¹)		0 - 3,000	0 - 2,800
Blows per minute		0 - 45,000	0 - 30,800
Overall length		297 mm	272 mm
Net weight		2.0 kg	1.6 kg
Safety class		<input type="checkbox"/> /II	

- Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.

END201-5

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



..... Read instruction manual.



..... DOUBLE INSULATION

ENE039-1

Intended use

The tool is intended for impact drilling in brick, concrete and stone as well as for drilling without impact in wood, metal, ceramic and plastic.

ENF002-2

Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

GEA005-3

General Power Tool Safety Warnings

⚠ WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

4. **Power tool plugs must match the outlet.** Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

8. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
9. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.
10. Use of power supply via a RCD with a rated residual current of 30mA or less is always recommended.

Personal safety

11. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
12. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
13. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
14. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
15. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
16. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
17. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

Power tool use and care

18. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
19. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
20. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
21. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the

power tool. Power tools are dangerous in the hands of untrained users.

22. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
23. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
24. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

25. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
26. Follow instruction for lubricating and changing accessories.
27. Keep handles dry, clean and free from oil and grease.

GEB003-5

HAMMER DRILL SAFETY WARNINGS

1. Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
2. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
3. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
5. Hold the tool firmly with both hands.
6. Keep hands away from rotating parts.
7. Do not leave the tool running. Operate the tool only when hand-held.
8. Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
9. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.

SAVE THESE INSTRUCTIONS.

⚠ WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

ASSEMBLY

Installing side grip (auxiliary handle) (Fig. 1)

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before installing or removing the side grip. Always use the side grip to ensure operating safety. Install the side grip so that the teeth on the grip fit in between the protrusions on the tool barrel. Then tighten the grip by turning clockwise at the desired position. It may be swung 360° so as to be secured at any position.

Installing or removing drill bit (Fig. 2)

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before installing or removing the bit. To install the bit, place it in the chuck as far as it will go. Tighten the chuck by hand. Place the chuck key in each of the three holes and tighten clockwise. Be sure to tighten all three chuck holes evenly. To remove the bit, turn the chuck key counterclockwise in just one hole, then loosen the chuck by hand.

After using the chuck key, be sure to return it to the original position.

Depth gauge (optional accessory) (Fig. 3)

The depth gauge is convenient for drilling holes of uniform depth. Loosen the side grip and insert the depth gauge into the hole in the grip base. Adjust the depth gauge to the desired depth and tighten the side grip.

NOTE:

- The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing.

FUNCTIONAL DESCRIPTION

Switch action (Fig. 4)

⚠ CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop. For continuous operation, pull the switch trigger and then push in the lock button. To stop the tool from the locked position, pull the switch trigger fully, then release it.

Reversing switch action (Fig. 5)

This tool has a reversing switch to change the direction of rotation. Move the reversing switch lever to the ⌂ position (A side) for clockwise rotation or to the ⌃ position (B side) for counterclockwise rotation.

⚠ CAUTION:

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

Selecting the action mode (Fig. 6)

This tool has an action mode change lever. For rotation with hammering, slide the action mode change lever to the right (⊜ symbol). For rotation only, slide the action mode change lever to the left (⊛ symbol).

⚠ CAUTION:

- Always slide the action mode change lever all the way to your desired mode position. If you operate the tool with the lever positioned halfway between the mode symbols, the tool may be damaged.

OPERATION

Hammer drilling operation

When drilling in concrete, granite, tile, etc., slide the action mode change lever to the position of ⊜ symbol to use "rotation with hammering" action. Be sure to use a tungsten-carbide tipped bit. Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out.

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

Drilling operation

When drilling in wood, metal or plastic materials, slide the action mode change lever to the position of ⊛ symbol to use "rotation only" action.

Drilling in wood

When drilling in wood, the best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workplace.

Drilling in metal

To prevent the bit from slipping when starting a hole, make an indentation with a center-punch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling. Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

⚠ CAUTION:

- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- There is a tremendous force exerted on the tool/bit at the time of hole break through. Hold the tool firmly and exert care when the bit begins to break through the workplace.
- A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.
- Always secure small workplaces in a vise or similar hold-down device.

MAINTENANCE

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product safety and reliability, repairs, maintenance or adjustment should be carried out by an Makita Authorized Service Center.

BAHASA INDONESIA

Penjelasan tampilan keseluruhan

- | | | |
|------------------------------------|------------------------|-------------------------------|
| 1. Alas gagang | 6. Kencangkan | 11. Pincu saklar |
| 2. Gagang sisi (pegangan tambahan) | 7. Cekam bor | 12. Tombol kunci |
| 3. Gigi-gigi | 8. Kunci cekam | 13. Tuas saklar pembalik arah |
| 4. Tonjolan | 9. Gagang sisi | 14. Tuas pengubah mode kerja |
| 5. Kendurkan | 10. Pengukur kedalaman | |

SPESIFIKASI

Model		M804	M814
Kapasitas	Beton	16 mm	13 mm
	Kayu	30 mm	18 mm
	Baja	13 mm	13 mm
Kecepatan tanpa beban (min^{-1})		0 - 3.000	0 - 2.800
Hembusan per menit		0 - 45.000	0 - 30.800
Panjang keseluruhan		297 mm	272 mm
Berat bersih		2,0 kg	1,6 kg
Kelas keamanan		<input type="checkbox"/> /II	

- Karena kesinambungan program penelitian dan pengembangan kami, spesifikasi yang disebutkan di sini dapat berubah tanpa pemberitahuan.
- Spesifikasi dapat berbeda dari satu negara ke negara lainnya.

END201-5

Simbol

Berikut ini adalah simbol-simbol yang digunakan pada peralatan ini.

Pastikan Anda mengerti makna masing-masing simbol sebelum menggunakan alat.



..... Baca petunjuk penggunaan.



..... ISOLASI GANDA

ENE039-1

Penggunaan

Mesin ini digunakan untuk membor kejut batu bata, beton dan batu serta juga untuk membor tanpa kejut kayu, logam, keramik dan plastik.

ENF002-2

Pasokan daya

Mesin harus terhubung dengan pasokan daya listrik yang bervoltase sama dengan yang tertera pada pelat nama, dan hanya dapat dijalankan dengan listrik AC fase tunggal. Mesin diisolasi ganda dan oleh sebab itu dapat dihubungkan dengan soket tanpa arde.

GEA005-3

Peringatan Keselamatan Umum Mesin Listrik

⚠ PERINGATAN! Bacalah semua peringatan keselamatan dan semua petunjuk. Kelalaian mematuhi peringatan dan petunjuk dapat menyebabkan sengatan listrik, kebakaran dan/atau cedera serius.

Simpanlah semua peringatan dan petunjuk untuk acuan di masa depan.

Istilah "mesin listrik" dalam semua peringatan mengacu pada mesin listrik yang dijalankan dengan sumber listrik jala-jala (berkabel) atau baterai (tanpa kabel).

Keselamatan tempat kerja

1. **Jaga tempat kerja selalu bersih dan berpenyelenggaraan cukup.** Tempat kerja yang berantakan dan gelap mengundang kecelakaan.
2. **Jangan gunakan mesin listrik dalam lingkungan yang mudah meledak, misalnya jika ada cairan, gas, atau debu yang mudah menyala.** Mesin listrik menimbulkan bunga api yang dapat menyalaikan debu atau uap tersebut.
3. **Jauhkan anak-anak dan orang lain saat menggunakan mesin listrik.** Bila perhatian terpecah, anda dapat kehilangan kendali.

Keamanan kelistrikan

4. **Steker mesin listrik harus cocok dengan stopkontak.** Jangan sekali-kali mengubah steker dengan cara apa pun. Jangan menggunakan steker adaptor dengan mesin listrik berade (dibumikan). Steker yang tidak diubah dan stopkontak yang cocok akan mengurangi risiko sengatan listrik.
5. **Hindari sentuhan tubuh dengan permukaan berarde atau yang dibumikan seperti pipa, radiator, kompor, dan kulkas.** Risiko sengatan listrik bertambah jika tubuh Anda terbumikan atau terarde.
6. **Jangan membiarkan mesin listrik kehujanan atau kebasahan.** Air yang masuk ke dalam mesin listrik akan meningkatkan risiko sengatan listrik.

- Jangan menyalahgunakan kabel. Jangan sekali-kali menggunakan kabel untuk membawa, menarik, atau mencabut mesin listrik dari stopkontak. Jauhkan kabel dari panas, minyak, tepian tajam, atau bagian yang bergerak. Kabel yang rusak atau kusut memperbesar risiko sengatan listrik.**
- Bila menggunakan mesin listrik di luar ruangan, gunakan kabel ekstensi yang sesuai untuk penggunaan di luar ruangan. Penggunaan kabel yang sesuai untuk penggunaan luar ruangan mengurangi risiko sengatan listrik.**
- Jika mengoperasikan mesin listrik di lokasi lembap tidak terhindarkan, gunakan pasokan daya yang dilindungi peranti imbasan arus (residual current device - RCD). Penggunaan RCD mengurangi risiko sengatan listrik.**
- Penggunaan pasokan daya melalui RCD dengan kapasitas arus sisa 30 mA atau kurang selalu dianjurkan.**

Keselamatan diri

- Jaga kewaspadaan, perhatikan pekerjaan Anda dan gunakan akal sehat bila menggunakan mesin listrik. Jangan menggunakan mesin listrik saat Anda lelah atau di bawah pengaruh obat bius, alkohol, atau obat. Sekejap saja larai saat menggunakan mesin listrik dapat menyebabkan cedera diri yang serius.**
- Gunakan alat pelindung diri. Selalu gunakan pelindung mata. Peralatan pelindung seperti masker debu, sepatu pengaman anti-selip, helm pengaman, atau pelindung telinga yang digunakan untuk kondisi yang sesuai akan mengurangi risiko cedera diri.**
- Cegah penyalaaan yang tidak disengaja. Pastikan bahwa sakelar berada dalam posisi mati (off) sebelum menghubungkan mesin ke sumber daya dan/atau baterai, atau mengangkat atau membawanya. Membawa mesin listrik dengan jari Anda pada sakelarnya atau mengalirkan listrik pada mesin listrik yang sakelarnya hidup (on) akan mengundang kecelakaan.**
- Lepaskan kunci-kunci penyetel sebelum menghidupkan mesin listrik. Kunci-kunci yang masih terpasang pada bagian mesin listrik yang berputar dapat menyebabkan cedera.**
- Jangan meraih terlalu jauh. Jagalah pijakan dan keseimbangan sepanjang waktu. Hal ini memungkinkan kendali yang lebih baik atas mesin listrik dalam situasi yang tidak diharapkan.**
- Kenakan pakaian dengan baik. Jangan memakai pakaian yang kedodoran atau perhiasan. Jaga jarak antara rambut, pakaian, dan sarung tangan Anda dengan bagian mesin yang bergerak. Pakaian kedodoran, perhiasan, atau rambut panjang dapat tersangkut pada bagian yang bergerak.**
- Jika tersedia fasilitas untuk menghisap dan mengumpulkan debu, pastikan fasilitas tersebut terhubung listrik dan digunakan dengan baik. Penggunaan pembersih debu dapat mengurangi bahaya yang terkait dengan debu.**

Penggunaan dan pemeliharaan mesin listrik

- Jangan memaksakan mesin listrik. Gunakan mesin listrik yang tepat untuk keperluan Anda. Mesin**

- listrik yang tepat akan menuntaskan pekerjaan dengan lebih baik dan aman pada kecepatan sesuai rancangannya.
- Jangan gunakan mesin listrik jika sakelar tidak dapat menyalakan dan mematikannya. Mesin listrik yang tidak dapat dikendalikan dengan sakelarnya adalah berbahaya dan harus diperbaiki.**
 - Cabut steker dari sumber listrik dan/atau baterai dari mesin listrik sebelum melakukan penyetelan, penggantian aksesorai, atau menyimpan mesin listrik. Langkah keselamatan preventif tersebut mengurangi risiko hidupnya mesin secara tak sengaja.**
 - Simpan mesin listrik jauh dari jangkauan anak-anak dan jangan biarkan orang yang tidak paham mengenai mesin listrik tersebut atau petunjuk ini menggunakan mesin listrik. Mesin listrik sangat berbahaya di tangan pengguna yang tak terlatih.**
 - Rawatlah mesin listrik. Periksa apakah ada bagian bergerak yang tidak lurus atau macet, bagian yang pecah dan kondisi lain yang dapat mempengaruhi penggunaan mesin listrik. Jika rusak, perbaiki dahulu mesin listrik sebelum digunakan. Banyak kecelakaan disebabkan oleh kurangnya pemeliharaan mesin listrik.**
 - Jaga agar mesin pemotong tetap tajam dan bersih. Mesin pemotong yang terawat baik dengan mata pemotong yang tajam tidak mudah macet dan lebih mudah dikendalikan.**
 - Gunakan mesin listrik, aksesorai, dan mata mesin, dll. sesuai dengan petunjuk ini, dengan memperhitungkan kondisi kerja dan jenis pekerjaan yang dilakukan. Penggunaan mesin listrik untuk penggunaan yang lain dari peruntukan dapat menimbulkan situasi berbahaya.**

Servis

- Berikan mesin listrik untuk diperbaiki hanya kepada oleh teknisi yang berkualifikasi dengan menggunakan hanya suku cadang pengganti yang serupa. Hal ini akan menjamin terjadinya keamanan mesin listrik.**
- Patuhi petunjuk pelumasan dan penggantian aksesorai.**
- Jagalah agar gagang kering, bersih, dan bebas dari minyak dan gemuk.**

GEB003-5

PERINGATAN KESELAMATAN BOR PALU

- Kenakan pelindung telinga saat melakukan pengeboran tumbuk (impact drilling). Terpaan kebisingan dapat menyebabkan hilangnya pendengaran.**
- Gunakan gagang tambahan, jika disertakan bersama mesin ini. Kehilangan kendali dapat menyebabkan cedera.**
- Pegang mesin listrik pada permukaan genggam yang terisolasi saat melakukan pekerjaan bila mesin pemotong mungkin bersentuhan dengan kawat tersembunyi atau kabelnya sendiri. Aksesoris pemotong yang menyentuh kawat "hidup" dapat menyebabkan bagian logam pada mesin teraliri arus listrik dan menyengat pengguna.**

4. Selalu pastikan Anda berdiri di atas alas yang kuat.
Pastikan tidak ada orang di bawahnya bila Anda menggunakan mesin di tempat tinggi.
5. Pegang mesin kuat-kuat dengan kedua tangan.
6. Jauhkan tangan dari bagian yang berputar.
7. Jangan tinggalkan mesin dalam keadaan hidup. Jalankan mesin hanya ketika digenggam tangan.
8. Jangan menyentuh mata mesin atau benda kerja segera setelah pengoperasian; suhunya mungkin masih sangat panas dan dapat membakar kulit Anda.
9. Bahan tertentu mengandung zat kimia yang mungkin beracun. Hindari menghirup debu dan persentuhan dengan kulit. Ikuti data keselamatan bahan dari pemasok.

SIMPAN PETUNJUK INI.

⚠ PERINGATAN:

JANGAN biarkan kenyamanan atau terbiasanya Anda dengan produk (karena penggunaan berulang) mengantikkan kepatuhan yang ketat terhadap aturan keselamatan untuk produk yang terkait.

PENYALAHGUNAAN atau kelalaian mematuhi kaidah keselamatan yang tertera dalam petunjuk ini dapat menyebabkan cedera badan serius.

PERAKITAN

Memasang gagang sisi (pegangan tambahan) (Gb. 1)

⚠ PERHATIAN:

- Pastikan mesin dalam keadaan mati dan steker telah dicabut sebelum memasang atau melepas gagang sisi. Gunakan selalu gagang sisi untuk menjamin keselamatan penggunaan. Pasang gagang sisi sedemikian rupa hingga gigi-gigi pada gagang bertemu dengan tonjolan pada silinder mesin. Lalu kencangkan gagang dengan memutar searah jarum jam ke posisi yang diinginkan. Gagang dapat diputar 360° agar dapat ditahan di posisi mana saja.

Memasang atau melepas mata bor (Gb. 2)

⚠ PERHATIAN:

- Pastikan bahwa mesin dalam keadaan mati dan steker tercabut sebelum memasang atau melepas mata bor. Untuk memasang mata bor, masukkan mata bor ke dalam cekam sejauh mungkin. Kencangkan cekam dengan tangan. Masukkan kunci cekam ke dalam tiga lubang yang ada dan kencangkan searah jarum jam. Pastikan ketiga lubang cekam dikencangkan secara seragam. Untuk melepas mata bor, putar kunci cekam berlawanan arah jarum jam pada satu lubang saja, lalu bebasan mata bor dengan tangan. Setelah menggunakan kunci cekam, pastikan untuk mengembalikannya ke posisi semula.

Pengukur kedalaman (pilihan aksesori) (Gb. 3)

Pengukur kedalaman sangat tepat digunakan untuk menghasilkan lubang-lubang pengeboran dengan kedalaman yang seragam. Kendurkan gagang sisi dan masukkan pengukur kedalaman ke dalam lubang pada alas gagang. Sesuaikan pengukur kedalaman pada kedalaman yang diinginkan dan kencangkan gagang sisi.

CATATAN:

- Pengukur kedalaman tidak bisa digunakan bila posisinya berlawanan dengan rumahan gir.

DESKRIPSI FUNGSI

Kerja saklar (Gb. 4)

⚠ PERHATIAN:

- Sebelum memasukkan steker, pastikan picu saklar berfungsi dengan baik dan kembali ke posisi "OFF" saat dilepas. Untuk menjalankan mesin, cukup tarik picu saklarnya. Kecepatan mesin akan meningkat dengan menambah tekanan pada picu saklar. Lepaskan picu saklar untuk berhenti. Untuk penggunaan terus-menerus, tarik picu saklar kemudian tekan tombol kunci. Untuk melepaskan mesin dari posisi terkunci, tarik picu saklar sepenuhnya kemudian lepaskan.

Kerja saklar pembalik arah (Gb. 5)

Mesin ini memiliki saklar pembalik arah untuk mengubah arah putaran. Gerakan tuas saklar pembalik arah ke posisi ⇛ (sisi A) untuk putaran searah jarum jam atau posisi ⇕ (sisi B) untuk putaran berlawanan arah jarum jam.

⚠ PERHATIAN:

- Selalu periksa arah putaran sebelum penggunaan.
- Gunakan saklar pembalik arah hanya setelah mesin berhenti penuh. Mengubah arah putaran sebelum mesin berhenti dapat merusak mesin.

Memilih mode kerja (Gb. 6)

Mesin ini memiliki tuas pengubah mode kerja. Untuk putaran dengan getar, geser tuas pengubah mode kerja ke kanan (simbol ⚡). Untuk putaran saja, geser tuas pengubah mode kerja ke kiri (simbol ⚪).

⚠ PERHATIAN:

- Selalu geser tuas pengubah mode kerja hingga penuh ke posisi yang anda inginkan. Jika anda memakai alat dengan tuas berada di posisi tengah antara kedua simbol mode alat bisa rusak.

PENGUNAAN

Cara pengoperasian bor getar

Saat mengebor beton, granit, ubin, dll., geser tuas pengubah mode kerja ke posisi bersimbol ⚡ untuk gerakan putar dengan getaran. Pastikan Anda menggunakan mata bor berujung tungsten-carbide. Jangan menambah tekanan bila lubang dipenuhi geraman atau partikel. Tetapi, nyalakan alat tanpa putaran, lalu angkat mata bor sedikit dari lubang. Dengan mengulanginya beberapa kali, lubang akan bersih. Setelah mengebor lubang, gunakan penghembus angin untuk membersihkan lubang dari debu.

Pekerjaan pengeboran

Bila mengebor bahan kayu, logam atau plastik, geser tuas pengubah mode kerja ke posisi bersimbol ⚡ untuk menggunakan hanya "putaran saja".

Mengebor kayu

Saat mengebor kayu, hasil terbaik didapat dengan bor kayu yang dilengkapi sekrup pemandu. Sekrup pemandu memudahkan pengeboran dengan menarik mata bor ke benda kerja.

Mengebor logam

Untuk mencegah mata bor selip ketika mulai membuat lubang, buatlah takik dengan penitik lalu palu pada titik yang akan dibor. Letakkan ujung mata bor pada takik dan mulailah mengebor. Gunakan cairan pendingin saat mengebor logam. Pengecualian untuk besi dan kuningan yang harus dibor kering.

⚠ PERHATIAN:

- Menekan mesin secara berlebihan tidak akan mempercepat pengeboran. Bahkan, tekanan yang berlebihan hanya akan merusak mata bor Anda, mengurangi kinerja mesin dan memperpendek usia pakai mesin.
- Akan timbul gaya yang sangat kuat pada mesin/mata bor saat menembus lubang. Pegang mesin dengan kuat dan berhati-hatilah saat mata bor menembus benda kerja.
- Mata bor yang macet dapat dicabut dengan menyetel saklar pembalik arah agar mesin berputar berlawanan arah untuk mundur. Tetapi, mesin bisa saja mundur mendadak jika Anda tidak memegangnya dengan kuat.
- Tahan benda kerja berukuran kecil dengan penjepit atau alat penahan lain.

PERAWATAN

⚠ PERHATIAN:

- Pastikan bahwa mesin dalam keadaan mati dan steker tercabut sebelum melakukan pekerjaan apapun pada mesin.
- Jangan sekali-kali menggunakan bensin, tiner, alkohol, atau bahan sejenisnya. Penggunaan bahan demikian dapat menyebabkan perubahan warna, perubahan bentuk atau timbulnya retakan.

Untuk menjaga keamanan dan keandalan alat, perbaikan, perawatan atau penyetelan harus dilakukan oleh Pusat Layanan Resmi Makita.

Giải thích về hình vẽ tổng thể

- | | |
|-------------------------------|------------------|
| 1. Đè tay cầm | 6. Vận chật |
| 2. Tay cầm hông (tay cầm phụ) | 7. Ngàm khoan |
| 3. Răng | 8. Khóa ngàm |
| 4. Phần nhô ra | 9. Tay cầm hông |
| 5. Vận lồng | 10. Thanh đo sâu |

- | |
|-----------------------------------|
| 11. Càn công tắc khởi động |
| 12. Nút khóa |
| 13. Càn công tắc đảo chiều |
| 14. Càn thay đổi chế độ hoạt động |

THÔNG SỐ KỸ THUẬT

Kiểu		M804	M814
Công suất	Bê-tông	16 mm	13 mm
	Gỗ	30 mm	18 mm
	Thép	13 mm	13 mm
Tốc độ không tải (phút ⁻¹)		0 - 3.000	0 - 2.800
Số nhát mỗi phút		0 - 45.000	0 - 30.800
Chiều dài tổng thể		297 mm	272 mm
Trọng lượng tĩnh		2,0 kg	1,6 kg
Cấp độ an toàn		<input checked="" type="checkbox"/> /II	

- Do chương trình nghiên cứu và phát triển liên tục của chúng tôi nên các thông số kỹ thuật trong đây có thể thay đổi mà không cần thông báo trước.
- Các thông số kỹ thuật có thể thay đổi tùy theo từng quốc gia.

END201-5

Ký hiệu

Phản dưới đây cho biết các ký hiệu được dùng cho thiết bị. Đảm bảo rằng bạn hiểu rõ ý nghĩa của các ký hiệu này trước khi sử dụng.



..... Đọc tài liệu hướng dẫn.

Lưu giữ tất cả cảnh báo và hướng dẫn để tham khảo sau này.

Thuật ngữ “dụng cụ máy” trong các cảnh báo đề cập đến dụng cụ máy (có dây) được vận hành bằng nguồn điện chính hoặc dụng cụ máy (không dây) được vận hành bằng pin của bạn.

An toàn tại nơi làm việc

- Giữ nơi làm việc sạch sẽ và có đủ ánh sáng.** Nơi làm việc bừa bộn hoặc tối thường dễ gây ra tai nạn.
- Không vận hành dụng cụ máy trong môi trường cháy nổ,** ví dụ như môi trường có sự hiện diện của các chất lỏng, khí hoặc bụi dễ cháy. Các dụng cụ mạo tia lửa điện có thể làm bụi hoặc khí bốc cháy.
- Giữ trẻ em và người ngoài tránh xa nơi làm việc khi đang vận hành dụng cụ máy.** Sự xao lảng có thể khiến bạn mất khả năng kiểm soát.

An toàn về điện

- Phích cắm của dụng cụ máy phải khớp với ổ cắm.** Không bao giờ được sửa đổi phích cắm theo bất kỳ cách nào. Không sử dụng bất kỳ phích chuyển đổi nào với các dụng cụ máy được nối đất (tiếp đất). Các phích cắm còn nguyên vẹn và ổ cắm phù hợp sẽ giảm nguy cơ điện giật.
- Tránh để cơ thể tiếp xúc với các bề mặt nối đất hoặc tiếp đất như đường ống, bộ tản nhiệt, bếp ga và tủ lạnh.** Nguy cơ bị điện giật sẽ tăng lên nếu cơ thể bạn được nối đất hoặc tiếp đất.
- Không để dụng cụ máy tiếp xúc với mưa hoặc trong điều kiện ẩm ướt.** Nước lọt vào dụng cụ máy sẽ làm tăng nguy cơ điện giật.

ENE039-1

Mục đích sử dụng

Dụng cụ này được thiết kế cho việc khoan đóng vào gạch, bê-tông, đá cũng như cho việc khoan không cần đóng vào gỗ, kim loại, gốm và nhựa.

ENF002-2

Nguồn cấp điện

Dụng cụ này chỉ được nối với nguồn cấp điện có điện áp giống như đã chỉ ra trên biển tên và chỉ có thể được vận hành trên nguồn điện AC một pha. Chúng được cách điện hai lớp và do đó cũng có thể được sử dụng với các ổ cắm điện không có dây tiếp đất.

GEA005-3

Cảnh báo An toàn Chung dành cho Dụng cụ Máy

⚠️ CÀNH BÁO! Đọc tất cả các cảnh báo an toàn và hướng dẫn. Việc không tuân theo các cảnh báo và hướng dẫn có thể dẫn đến điện giật, hỏa hoạn và/hoặc thương tích nghiêm trọng.

- Không lạm dụng dây. Không bao giờ sử dụng dây để mang, kéo hoặc tháo phích cắm dụng cụ máy. Giữ dây tránh xa nguồn nhiệt, dầu, các mép sắc hoặc các bộ phận chuyển động.** Dây bị hỏng hoặc bị rò sẽ làm tăng nguy cơ điện giật.
- Khi vận hành dụng cụ máy ngoài trời, hãy sử dụng dây kéo dài phù hợp cho việc sử dụng ngoài trời.** Việc dùng dây phù hợp cho việc sử dụng ngoài trời sẽ giảm nguy cơ điện giật.
- Nếu bắt buộc phải vận hành dụng cụ máy ở nơi ẩm ướt, hãy sử dụng nguồn cấp điện được bảo vệ bằng thiết bị ngắt dòng điện rò (RCD).** Việc sử dụng RCD sẽ giảm nguy cơ điện giật.
- Chúng tôi luôn khuyên bạn sử dụng nguồn cấp điện của thiết bị RCD có thể ngắt dòng điện dự định mức 30 mA hoặc thấp hơn.**

An toàn cá nhân

- Luôn tinh táo, quan sát những việc bạn đang làm và sử dụng những phán đoán theo kinh nghiệm khi vận hành dụng cụ máy. Không sử dụng dụng cụ máy khi bạn đang mệt mỏi hoặc chịu ảnh hưởng của ma túy, rượu hay thuốc.** Chỉ một khoảnh khắc không tập trung khi đang vận hành dụng cụ máy cũng có thể dẫn đến thương tích cá nhân nghiêm trọng.
- Sử dụng thiết bị bảo hộ cá nhân. Luôn đeo thiết bị bảo vệ mắt.** Các thiết bị bảo hộ như mặt nạ chống bụi, giàn an toàn chống trượt, mũ bảo hộ hay thiết bị bảo vệ thính giác được sử dụng trong các điều kiện thích hợp sẽ giúp giảm thương tích cá nhân.
- Tránh vô tình khởi động dụng cụ máy. Đảm bảo công tắc ở vị trí off (tắt) trước khi nối nguồn điện và/hoặc bộ pin, cầm hoặc mang dụng cụ máy.** Việc mang dụng cụ máy khi đang đặt ngón tay ở vị trí công tắc hoặc cấp điện cho dụng cụ máy đang bật thường dễ gây ra tai nạn.
- Tháo mọi khóa hoặc chìa vặn điều chỉnh trước khi bắt dụng cụ máy.** Việc chìa vặn hoặc khóa vẫn còn gắn vào bộ phận quay của dụng cụ máy có thể dẫn đến thương tích cá nhân.
- Không với quá cao. Luôn giữ thẳng bằng tốt và có chỗ để chân phù hợp.** Điều này cho phép điều khiển dụng cụ máy tốt hơn trong những tình huống bất ngờ.
- Ăn mặc phù hợp. Không mặc quần áo rộng hay đeo đồ trang sức.** Giữ tóc, quần áo và găng tay tránh xa các bộ phận chuyển động. Quần áo rộng, đồ trang sức hay tóc dài có thể mắc vào các bộ phận chuyển động.
- Nếu các thiết bị được cung cấp để kết nối các thiết bị thu gom và hút bụi, hãy đảm bảo chúng được kết nối và sử dụng hợp lý.** Việc sử dụng thiết bị thu gom bụi có thể làm giảm những mối nguy hiểm liên quan đến bụi.

Sử dụng và bảo quản dụng cụ máy

- Không dùng lực đối với dụng cụ máy. Sử dụng đúng dụng cụ máy cho công việc của bạn.** Sử dụng đúng dụng cụ máy sẽ giúp thực hiện công việc tốt hơn và an toàn hơn theo giá trị định mức được thiết kế của dụng cụ máy đó.
- Không sử dụng dụng cụ máy nếu công tắc không bật và tắt được dụng cụ máy đó.** Mọi dụng cụ máy không thể điều khiển được bằng công tắc đều rất nguy hiểm và cần được sửa chữa.

- Rút phích cắm ra khỏi nguồn điện và/hoặc ngắt kết nối bộ pin khỏi dụng cụ máy trước khi thực hiện bất kỳ công việc điều chỉnh, thay đổi phụ tùng hay cắt giữ dụng cụ máy nào.** Những biện pháp an toàn phòng ngừa này sẽ giảm nguy cơ vô tình khởi động vô tình dụng cụ máy.
- Cắt giữ các dụng cụ máy không sử dụng ngoài tầm với của trẻ em và không cho bất kỳ người nào không có hiểu biết về dụng cụ máy hoặc các hướng dẫn này vận hành dụng cụ máy.** Dụng cụ máy sẽ rất nguy hiểm nếu được sử dụng bởi những người dùng chưa qua đào tạo.
- Bảo quản dụng cụ máy.** Kiểm tra tình trạng lêch trục hoặc bó kẹp của các bộ phận chuyển động, hiện tượng nứt vỡ của các bộ phận và mọi tình trạng khác mà có thể ảnh hưởng đến hoạt động của dụng cụ máy. Nếu có hỏng hóc, hãy sửa chữa dụng cụ máy trước khi sử dụng. Nhiều tai nạn xảy ra là do không bảo quản tốt dụng cụ máy.
- Luôn giữ cho dụng cụ cắt được sắc bén và sạch sẽ.** Những dụng cụ cắt được bảo quản tốt có mép cắt sắc sẽ ít bị kẹt hơn và dễ điều khiển hơn.
- Sử dụng dụng cụ máy, phụ tùng và đầu dụng cụ cắt, v.v... theo các hướng dẫn này, có tính đến điều kiện làm việc và công việc được thực hiện.** Việc sử dụng dụng cụ máy cho các công việc khác với công việc dự định có thể gây nguy hiểm.

Bảo dưỡng

- Để nhân viên sửa chữa dù trình độ bảo dưỡng dụng cụ máy của bạn và chỉ sử dụng các bộ phận thay thế đồng nhất.** Việc này sẽ đảm bảo duy trì được độ an toàn của dụng cụ máy.
- Tuân theo hướng dẫn dành cho việc bôi trơn và thay phụ tùng.**
- Giữ tay cầm khô, sạch, không dính dầu và mỡ.**

GEB003-5

CẢNH BÁO AN TOÀN DÀNH CHO KHOAN BÚA

- Đeo thiết bị bảo vệ tai khi khoan.** Việc đeo tai tiếp xúc với tiếng ồn có thể gây giảm thính lực.
- Sử dụng (các) tay cầm phụ, nếu được cung cấp cùng với dụng cụ.** Việc mất khả năng kiểm soát có thể dẫn đến thương tích cá nhân.
- Cầm dụng cụ máy bằng bờ mặt kẹp cách điện khi thực hiện một thao tác trong đó bộ phận cắt có thể tiếp xúc với dây dẫn kín hoặc dây của chính nó.** Bộ phận cắt tiếp xúc với dây dẫn "có điện" có thể khiến các bộ phận kim loại bị hở của dụng cụ máy "có điện" và làm cho người vận hành bị điện giật.
- Luôn đảm bảo bạn có chỗ đặt chân vững chắc.** Đảm bảo rằng không có ai ở bên dưới khi sử dụng dụng cụ ở trên cao.
- Cầm chắc dụng cụ bằng cả hai tay.**
- Giữ tay tránh xa các bộ phận quay.**
- Không để mặc dụng cụ hoạt động.** Chỉ vận hành dụng cụ khi cầm trên tay.
- Không chạm vào mũi khoan hay vật gia công ngay sau khi vận hành; chúng có thể rất nóng và có thể gây bỏng da.**
- Một số vật liệu có thể chứa hóa chất độc.** Hãy cẩn thận để tránh hít phải bụi và tiếp xúc với da. Tuân theo dữ liệu an toàn của nhà cung cấp vật liệu.

LƯU GIỮ CÁC HƯỚNG DẪN NÀY.

⚠ CẢNH BÁO:

KHÔNG được để sự thoải mái hay quen thuộc với sản phẩm (có được do sử dụng nhiều lần) thay thế việc tuân thủ nghiêm ngặt các quy định về an toàn dành cho sản phẩm này. VIỆC DÙNG SAI hoặc không tuân theo các quy định về an toàn được nêu trong tài liệu hướng dẫn này có thể dẫn đến thương tích cá nhân nghiêm trọng.

LẮP RÁP

Lắp đặt tay cầm hông (tay cầm phụ trợ) (Hình 1)

⚠ CẨN TRỌNG:

• Luôn đảm bảo rằng dụng cụ này đã được tắt và rút phích cắm trước khi lắp hoặc tháo gỡ tay cầm hông. Luôn sử dụng tay cầm hông để đảm bảo vận hành an toàn. Lắp đặt tay cầm hông sao cho rằng của tay cầm khớp với giữa phần nhô ra của tay trống dụng cụ. Sau đó vận chuyển tay cầm bằng cách xoay theo chiều kim đồng hồ đến vị trí mong muốn. Tay cầm có thể xoay 360° để được giữ chặt ở bất cứ vị trí nào.

Lắp hoặc tháo đầu mũi khoan (Hình 2)

⚠ CẨN TRỌNG:

• Luôn đảm bảo rằng dụng cụ này đã được tắt và rút phích cắm trước khi lắp hoặc tháo gỡ mũi khoan. Để lắp đặt đầu mũi, đặt nó vào trong ngàm kẹp hết mức có thể. Vận phần ngàm kẹp lại bằng tay. Đặt khóa ngàm vào một trong ba lỗ nhỏ rồi vận chuyển theo chiều kim đồng hồ. Đảm bảo vặn chặt cả ba lỗ ngàm đều nhau. Để tháo mũi khoan, hãy xoay khóa ngàm ngược chiều kim đồng hồ chỉ ở một lỗ, sau đó vặn lỏng bộ phận ngàm bằng tay. Sau khi dùng khóa ngàm, phải đảm bảo đặt nó về vị trí ban đầu.

Thanh đo sâu (phụ kiện tùy chọn) (Hình 3)

Thanh đo sâu rất thuận tiện để khoan các lỗ có chiều sâu đồng nhất. Vặn lỏng tay cầm hông và lắp thanh đo sâu vào lỗ trong để tay cầm. Điều chỉnh thanh đo sâu đến độ sâu mong muốn và vặn chặt tay cầm hông.

LƯU Ý:

- Thanh đo sâu không thể dùng ở vị trí nơi thanh đo sâu vướng vào hộp sọ.

MÔ TẢ CHỨC NĂNG

Hoạt động công tắc (Hình 4)

⚠ CẨN TRỌNG:

• Trước khi cắm điện vào dụng cụ, luôn luôn kiểm tra xem cần khởi động công tắc có hoạt động bình thường hay không và trả về vị trí "OFF" (TẮT) khi nhả ra. Để khởi động dụng cụ, chỉ cần kéo cần khởi động công tắc. Tốc độ dụng cụ được giảm xuống bằng cách tăng lực ép lên cần khởi động công tắc. Nhả cần khởi động công tắc ra để dừng. Để tiếp tục vận hành, hãy kéo cần khởi động công tắc và sau đó nhấn vào nút khóa. Để dừng dụng cụ từ vị trí đã khóa, hãy kéo cần khởi động công tắc hết mức, sau đó nhả ra.

Hoạt động công tắc đảo chiều (Hình 5)

Dụng cụ này có một công tắc đảo chiều để thay đổi chiều xoay. Di chuyển cần gạt công tắc đảo chiều sang vị trí (mặt A) để xoay theo chiều kim đồng hồ hoặc sang vị trí (mặt B) để xoay ngược chiều kim đồng hồ.

⚠ CẨN TRỌNG:

- Luôn luôn kiểm tra hướng xoay trước khi vận hành.
- Chỉ sử dụng công tắc đảo chiều sau khi dụng cụ đã dừng hoàn toàn. Việc thay đổi hướng xoay trước khi dụng cụ dừng có thể làm hỏng dụng cụ.

Chọn chế độ hoạt động (Hình 6)

Dụng cụ này có một cần chuyển chế độ hoạt động. Để khoan và đóng búa, trượt cần chuyển chế độ hoạt động sang bên phải (biểu tượng ⚡). Để chỉ khoan, trượt cần chuyển chế độ hoạt động sang bên trái (biểu tượng ☰).

⚠ CẨN TRỌNG:

- Luôn trượt cần chuyển chế độ hoạt động hết mức đến vị trí chế độ bạn mong muốn. Nếu bạn vận hành dụng cụ này với cần chuyển chế độ hoạt động được đặt ở giữa các biểu tượng, dụng cụ có thể bị hư hỏng.

VẬN HÀNH

Thao tác khoan búa

Khi khoan trong bê-tông, đá granite, gạch, v.v... trượt cần chuyển chế độ hoạt động sang vị trí có biểu tượng ⚡ để dùng hoạt động "khoan đóng búa". Đảm bảo rằng bạn sử dụng mũi khoan có đầu bịt tungsten-cacbua. Không được ấn mạnh khi lỗ khoan bắt đầu bị nghẽn bởi các mảnh vụn và các hạt. Thay vào đó, hãy chạy dụng cụ ở chế độ chờ, sau đó tháo riêng mũi khoan khỏi lỗ. Bằng cách lập lại thao tác này vài lần, lỗ khoan sẽ được vệ sinh sạch. Sau khi khoan lỗ, sử dụng bóng thổi khí để vệ sinh bụi bắn ra khỏi lỗ.

Thao tác khoan

Khi khoan trong gỗ, kim loại hoặc vật liệu nhựa, trượt cần chuyển chế độ hoạt động sang vị trí có biểu tượng ☰ để dùng thao tác "chỉ khoan".

Khoan vào gỗ

Khi khoan vào gỗ, để có kết quả tốt nhất cần sử dụng các mũi khoan dùng để khoan gỗ và vít dẫn. Thanh vít dẫn hướng sẽ giúp khoan dễ dàng hơn bằng cách đưa mũi khoan vào vật gia công.

Khoan vào kim loại

Để phòng ngừa đầu mũi bị trượt ra lúc bắt đầu khoan lỗ, hãy tạo một vết lõm bằng cách dùng dùi đục tâm và đóng vào điểm cần khoan. Đặt đầu mũi khoan vào chỗ lõm này và bắt đầu khoan. Sử dụng đầu nhòn để cắt khi khoan kim loại. Trừ các trường hợp dùng sắt và đồng thau cần phải được khoan khô.

⚠ CẨN TRỌNG:

- Nhấn dụng cụ quá mức sẽ không tăng tốc độ khoan lên được. Trên thực tế, việc nhấn mạnh thêm này sẽ chỉ làm gây hỏng đầu mũi của bạn, giảm hiệu năng và tuổi thọ hoạt động của dụng cụ.
- Sẽ có lực quán tính rất lớn trên dụng cụ/mũi khoan lúc lỗ khoan được xuyên thủng. Giữ chặt dụng cụ và chuẩn bị ghìm lực quán tính lại khi mũi khoan xuyên thủng vật gia công.

- Mũi khoan bị kẹt có thể được tháo ra đơn giản bằng cách đặt công tắc đảo chiều sang chế độ xoay ngược lại để rút mũi khoan ra. Tuy nhiên, dụng cụ có thể quay ngược ra bất ngờ nếu bạn không giữ chặt.
- Luôn luôn giữ chặt các vật gia công có kích thước nhỏ bằng kim hoặc dụng cụ kẹp tương tự.

BẢO TRÌ

⚠ CẨM TRỌNG:

- Luôn luôn đảm bảo rằng dụng cụ đã được tắt và tháo phích cắm trước khi dùng dụng cụ thực hiện bất cứ công việc nào.
- Không bao giờ dùng xăng, ét xăng, dung môi, cồn hoặc hóa chất tương tự. Có thể xảy ra hiện tượng mất màu, biến dạng hoặc nứt vỡ.

Để duy trì sự an toàn và tin cậy của sản phẩm, mọi sửa chữa, bảo trì hoặc điều chỉnh dụng cụ đều phải được thực hiện bởi Trung tâm Dịch vụ ủy quyền của Makita.

คำอธิบายของมุมมองทั่วไป

- | | | |
|--------------------------------|--------------------|------------------------------|
| 1. ฐานด้ามจับ | 6. หันแย่น | 11. สวิตซ์สั่งงาน |
| 2. ตัวมุงล้ำข้าง (มือจับเสริม) | 7. หัวจับคอกล่าวน | 12. ปุ่มล็อก |
| 3. พันเพื่อง | 8. ประแจขันหัวรับ | 13. ก้านสวิตซ์เปลี่ยนทิศทาง |
| 4. ส่วนที่ยันออกมา | 9. ตัวมุงบด้านข้าง | 14. ก้านเปลี่ยนให้มีการทำงาน |
| 5. ขันคลาย | 10. เกจวัดความลึก | |

ข้อมูลจำเพาะ

รุ่น	M804	M814
ความสามารถในการเจาะ	คงที่	16 มม.
	ไฟ	30 มม.
	โลหะ	13 มม.
ความเร็วขณะหมุนเปล่า (รอบต่อนาที)	0 - 3,000	0 - 2,800
Blows per minute	0 - 45,000	0 - 30,800
ความยาวโดยรวม	297 มม.	272 มม.
น้ำหนักสุทธิ	2.0 กก.	1.6 กก.
มาตรฐานความปลอดภัย	<input type="checkbox"/> /II	

- เนื่องจากการดันคันคว้าวิ้งและพัฒนาอย่างต่อเนื่อง ข้อมูลจำเพาะในเอกสารฉบับนี้อาจเปลี่ยนแปลงได้โดยไม่ต้องแจ้งให้ทราบล่วงหน้า
- ข้อมูลจำเพาะอาจแตกต่างกันไปในแต่ละประเทศ

END201-5

สัญลักษณ์

ต่อไปนี้คือสัญลักษณ์ที่ใช้สำหรับอุปกรณ์
โปรดศึกษาความหมายของสัญลักษณ์เหล่านี้ก่อนการใช้งาน



.....จำนวนส่องชั้น

ENE039-1

จุดประสงค์ของเครื่องมือ

เครื่องมือสำหรับตัวบันจะกระแทกเกียร์ คงที่ หิน และใช้สำหรับเจาะไม้
โลหะ เครื่อมิค และผลิตภัณฑ์

ENF002-2

การจ่ายไฟ

ควรเชื่อมต่อเครื่องมือกับแหล่งจ่ายไฟที่มีแรงดันไฟฟ้าตามที่ระบุไว้ในป้าย
ข้อมูลของเครื่องมือ และจะต้องใช้ไฟฟ้ากระแสสลับแบบเฟสเดียวเท่านั้น
อุปกรณ์นี้ได้รับการรุ่น晉江 ของส่องชั้นและสามารถใช้กับปลั๊กไฟที่มีสายดินได้

GEA005-3

คำเตือนด้านความปลอดภัยของเครื่องมือ
ไฟฟ้าทั่วไป

⚠️ คำเตือน! จำนวนคำเตือนด้านความปลอดภัยและคำแนะนำทั้งหมด
การไฟฟ้าที่ได้รับการยืนยันว่าจะเพิ่มความเสี่ยงของการเกิดไฟฟ้าช็อก
ไฟฟ้าใน และ/หรือ เดียวบัดเดือยร้ายแรง

**เก็บรักษาคำเตือนและคำแนะนำนำทั้งหมดไว้เป็น
ข้อมูลอ้างอิงในอนาคต**

ค่าว่า “เครื่องมือไฟฟ้า” ในภาคต้นนี้ หมายถึง เครื่องมือไฟฟ้า (ไร้สาย) ที่
ทำงานโดยใช้ขั้วกระแสไฟฟ้า หรือเครื่องมือไฟฟ้า (ไร้สาย) ที่ทำงานโดยใช้
แบตเตอรี่

ความปลอดภัยของพื้นที่ทำงาน

- อยู่แล้วพื้นที่ทำงานให้มีความสะอาดและนีแห้งฟรีสว่าง พื้นที่รักษา
จะเกะกะหรือมีเศษที่บ้าอาจนำไปสู่การเกิดอุบัติเหตุได้
- อย่าใช้ชั้งเครื่องมือไฟฟ้าในสภาพที่อาจมีอิเล็กทรอนิกส์ เช่น
ในสถานที่ที่มีของเหลว ก๊าซ หรือผงที่มีคุณสมบัติไฟฟ้า
เครื่องมือไฟฟ้าจะสร้างประกายไฟเพื่อจุดชนวนผุ้คนผงหรือก๊าซลงล้า
- อยู่แล้วเม็ดดูํ ก๊าซ หรือบุคคลอื่นอยู่ในบริเวณที่กำลังใช้เครื่องมือ
ไฟฟ้า การมีสิ่งของกวนสามอาจทำให้คุณสูญเสียการควบคุม

ความปลอดภัยด้านไฟฟ้า

- ปลั๊กของเครื่องมือไฟฟ้าต้องพอดีกับเต้ารับ อายุตัดแปลงลึก
ไม่ว่ากรณีใดๆ อย่าใช้ปลั๊กอะแดปเตอร์กับเครื่องมือไฟฟ้าที่ต้อง
สายดิน ปลั๊กที่ไม่ถูกตัดแปลงและเต้ารับไฟฟ้าที่เข้ากันพอดีจะช่วยลด
ความเสี่ยงของการเกิดไฟฟ้าช็อก
- ระวังอย่าให้ร่างกายสัมผัสกับพื้นผิวที่ต่อสายดิน เช่น ห้อง
น้ำความร้อน เตาหุงต้ม และตู้เย็น มีความเสี่ยงที่จะเกิดไฟฟ้าช็อก
ถูกชั้น หากร่างกายของคุณสัมผัสกับพื้น
- อย่าให้เครื่องมือไฟฟ้าอยู่น้ำหรืออยู่ในสภาพเปียกชื้น น้ำที่เหลือ
เข้าไปในเครื่องมือไฟฟ้าจะเพิ่มความเสี่ยงของการเกิดไฟฟ้าช็อก

7. อย่าใช้สายไฟอย่างไม่เหมาะสม อย่าใช้สายไฟเพื่อเก็บ ดึง หรือ ถอดปลั๊กเครื่องมือไฟฟ้า เก็บสายไฟให้ห่างจากความร้อน น้ำมัน ของมีคม หรือชิ้นส่วนที่เคลื่อนที่ สายที่ชำรุดหรือพังกัน จะเพิ่มความเสี่ยงของการเกิดไฟฟ้าช็อก
 8. ขณะที่ใช้งานเครื่องมือไฟฟ้านอกอาคาร ควรใช้สายต่อพ่วงที่ เหมาะสมกับงานภายนอกอาคาร การใช้สายที่เหมาะสมกับงาน ภายนอกอาคารจะลดความเสี่ยงของการเกิดไฟฟ้าช็อก
 9. หากต้องใช้งานเครื่องมือไฟฟ้านอกสถานที่ป้องกัน ให้ใช้ อุปกรณ์ป้องกันกระแสไฟร้า (RCD) กรณีใช้ RCD จะลดความเสี่ยง ของการเกิดไฟฟ้าช็อก
 10. ขอแนะนำให้ใช้แหล่งจ่ายไฟผ่าน RCD ที่มีกระแสไฟร้าในอัตรา ไม่เกิน 30 mA เชื่อม

ความปลอดภัยส่วนบุคคล

- ให้รัมภัจจุบัน และสังเกตผลเสมอคุณกำลังทำสิ่งใดอยู่ และใช้ส่วนยุ่งานในขณะที่ใช้งานเครื่องมือไฟฟ้า อย่าใช้งานเครื่องมือไฟฟ้าในขณะที่คุณกำลังหนีน้อย หรือในสภาพที่มีเมฆมากจากยาสเปดเดิล เครื่องดื่มแอลกอฮอล์ หรือการใช้ยา ช่วยลดเวลาความระมัดระวังเมื่อกำลังใช้งานเครื่องมือไฟฟ้าอาจทำให้คุณได้รับบาดเจ็บอย่างรุนแรง
 - ใช้อุปกรณ์ป้องกันส่วนบุคคล รวมวันเดียวป้องกันเสมอ อุปกรณ์ป้องกัน เช่น หน้ากากกันฝุ่น รองเท้าริบบิ้นกันลื่น หมวกนิรภัย หรือเครื่องป้องกันการได้รับไฟฟ้าที่ใช้ในสภาพที่เหมาะสมจะช่วยลดการบาดเจ็บ
 - ป้องกันไฟฟ้าโดยใช้งานอย่างไม่ตั้งใจ ตรวจสอบว่าสวิตซ์อยู่ในตำแหน่งปิดก่อนเชื่อมต่อ กับแหล่งจ่ายไฟ และ/หรือชุดแบตเตอรี่ หรือก่อนการยกหรือถือเครื่องมือ การลอกผู้นำเมื่อปรับเปลี่ยนสวิตซ์เพื่อถือเครื่องมือไฟฟ้า หรือการซักไฟฟ้าเครื่องมือไฟฟ้าในขณะที่ปิดสวิตซ์อยู่อาจนำไปสู่การเกิดอุบัติเหตุ
 - นำภูมิปัญญาและจิตใจที่เสียบ้างขำบ้างในชั่วสั่นที่หมุนตัวของเครื่องมือไฟฟ้า อย่าพยายามรับแต่งหรือประแจออกก่อนที่จะเปิดเครื่องมือไฟฟ้า ประแจหรือภูมิปัญญาที่เสียบ้างขำบ้างในชั่วสั่นที่หมุนตัวของเครื่องมือไฟฟ้าอาจทำให้เกิดไฟฟ้าช็อกได้รับบาดเจ็บ
 - อย่าทำงานในระยะที่สุดเข้มงวด จัดตั้งการยืนและการทรงตัวให้เหมาะสมตลอดเวลา เพราะจะทำให้ควบคุมเรื่องมือไฟฟ้าได้ดีขึ้น ในสถานการณ์ที่ไม่คาดคิด
 - แต่งกายให้เหมาะสม อย่าสวมเครื่องแต่งกายที่หลวมเกินไป หรือสวมเครื่องประดับ คุณไม่ได้เส้นผม เสื้อผ้า และถุงมืออยู่ใกล้ชั้นส่วนที่เคลื่อนที่ เนื่องจากว่า แม้เครื่องประดับ หรือผมที่มีความยาวอาจเข้าไปติดในเส้นร้านที่เคลื่อนที่
 - หากมีการจัดตั้งอุปกรณ์สำหรับคุณและจัดเก็บผุ่งไว้ในสถานที่ ให้ตรวจสอบว่าได้เชื่อมต่อและใช้งานอุปกรณ์นั้นอย่างเหมาะสม การใช้เครื่องดูดและจัดเก็บผุ่งจะช่วยลดอันตรายที่เกิดจากผุ่งนั้นได้ การใช้และดูแลเครื่องมือไฟฟ้า
 - อย่ามีนิสัยหรือเชื่อมต่อไฟฟ้า ใช้เครื่องมือไฟฟ้าที่เหมาะสมกับการใช้งานของคุณ เครื่องมือไฟฟ้าที่เหมาะสมจะทำให้ได้งานที่นี่ ประดิษฐ์ภารกิจและปลดภัยกว่าความเข้าใจความสามารถของเครื่องที่ได้รับการอ่านแบบนา
 - อย่าใช้เครื่องมือไฟฟ้า หากสิ่งใดไม่สามารถเป็นปีกได้ เครื่องมือไฟฟ้าที่ควบคุมด้วยสวิตซ์ไม่ได้เป็นสิ่งอันตรายและต้องได้รับการซ้อมแม่น
 - ถอดปักจากแหล่งจ่ายไฟ และ/หรือชุดแบตเตอรี่ออกจากเครื่องไฟฟ้า ก่อนทุกการใช้งาน ไม่ว่าจะเป็นการซ่อมแซม หรือเปลี่ยนแบตเตอรี่ หรือเปลี่ยนสายไฟ หรือเปลี่ยนหัวการรีเซ็ต เนื่องจากไฟฟ้าในขณะที่ใช้งานจะส่งผลกระทบต่อชีวิตและทรัพย์สินของคุณ

- จัดเก็บเครื่องมือไฟฟ้า วิธีการป้องกันด้านความปลอดภัยดังกล่าว จะช่วยลดความเสี่ยงของการเปิดใช้งานเครื่องมือไฟฟ้าอย่างไม่ตั้งใจ

21. จัดเก็บเครื่องมือไฟฟ้าที่ไม่ได้ใช้งานให้ห่างจากเมืองไฟ และอย่าอนุญาตให้บุคคลที่ไม่คุ้นเคยกับเครื่องมือไฟฟ้าหรือคำแนะนำ เหล่านี้ใช้งานเครื่องมือไฟฟ้า เครื่องมือไฟฟ้าอาจจะเป็นขันตรายเมื่ออยู่ในมือของผู้ที่ไม่ได้รับการฝึกอบรม

22. การดูแลรักษาเครื่องมือไฟฟ้า ตรวจสอบการประกอบที่ไม่ถูกต้องหรือการซ่อมต่อของชิ้นส่วนที่เคลื่อนที่ การแตกรหัสของชิ้นส่วน หรือสภาพอื่นๆ ที่อาจส่งผลกระทบต่อการทำงานของเครื่องมือไฟฟ้า หากมีความเสียหาย ในนาคนี้ควรนำเครื่องมือไฟฟ้าไปซ่อมแซมก่อนการใช้งาน อุบัติเหตุดำเนินมาหากเกิดจากการดูแลรักษาหรือเมื่อไฟฟ้าอย่างไม่ถูกต้อง

23. ลับความคอมและทำความสะอาดเครื่องมือการตัดด้วยเศษเสื่อ เครื่องซีลาร์ดัตที่มีการดูแลอย่างถูกต้องและมีข้อบากการตัดคมมักจะมีปัญหาด้านตัดขั้ยและควบคุมได้ยากกว่า

24. ใช้เครื่องมือไฟฟ้า อุปกรณ์เสริม และวัสดุสันเปลือง ฯลฯ ตามคำแนะนำดังกล่าว พิจารณาสภาพการทำงานและงานที่จะลงมือทำ การใช้เครื่องมือไฟฟ้าเพื่อทำงานยืนอยู่หน้าจากที่กำหนดได้ยากขึ้น

การบริการ

25. นำเครื่องมือไฟฟ้าเข้ารับบริการจากช่างซ่อมที่ผ่านการรับรอง โดยใช้ชื่อในหลักแบบเดียวกันที่เราบันทึกไว้จะทำให้การใช้เครื่องมือไฟฟ้ามีความปลอดภัย
 26. ปฏิบัติตามค่าแนะนำในการหล่ออิลินและการเปลี่ยนถุงปกร้อนเสริม
 27. ดูแลเมืองขันในหน้างาน สะอาด ปราศไม้ร้านน้ำและอาจเป็นปืน

GEB003-5

คำเตือนด้านความปลอดภัยของสว่านไฟฟ้า

แบบเจาะกรະแทรก

1. สมวุฒิสู่อุปกรณ์ป้องกันเสียงเมื่อทำการเจาะกระแทก เสียงที่ดังเกินขนาดอาจทำให้สูญเสียการได้ยิน
 2. ใช้มือจับเรซิม ถ้ามีมากับเครื่อง การสูญเสียความควบคุมอาจทำให้เกิดภาระบาดเจ็บ
 3. ถือเครื่องร่องรอยวิวนมือจับที่เป็นนวนวนขณะทำงานที่เครื่องมือตัดอาจสัมผัสกับสายไฟที่ซ่อนอยู่หรือสายไฟของเครื่องเอง ขุปกรณ์การตัดที่ไม่สัมผัสกับสายไฟที่ “มีกระแสไฟฟ้าให้หล่อผ่าน” อาจทำให้ส่วนที่เป็นโลหะของเครื่องร่องรอยไฟฟ้าที่ไม่มีนวนหุ้ม “มีกระแสไฟฟ้าให้หล่อผ่าน” และทำให้ปฏิบัติงานถูกไฟฟ้าช็อกได้
 4. ตรวจสอบบริเวณที่ยืนให้มีความมั่นคงสมอ หากใช้งานเครื่องมือในพื้นที่สูง จะงอขาให้มีคนอยู่ด้านล่าง
 5. จับเครื่องร่องรอยให้แน่นด้วยมือทั้งสองข้าง
 6. ระวังอย่าให้หือสัมผัสกับชิ้นส่วนที่หมุนได้
 7. อย่าปล่อยให้เครื่องมือทำงานค้างไว้ ใช้งานเครื่องมือในขณะที่ถืออยู่เท่านั้น
 8. ห้ามสัมผัสกับตอกดองส่วนที่รีอีนงานทันทีที่ทำการเสร็จ เนื่องจากตอกดองส่วนที่รีอีนงานอาจมีความร้อนสูงและลวก ผิวนังของคุณได้
 9. วัสดุบางอย่างอาจเป็นเพิษ ระวังอย่าสกดุมมุนหรือให้สารเหล่านั้นสัมผัสกับร่างกาย ปฏิบัติตามข้อ沫ด้านความปลอดภัยของมูลลิคัวสด

- ใช้ที่อุปกรณ์เดียวกันที่รับข้อมูลนี้เพื่อติดต่อสื่อสารกับเครื่องอุปกรณ์เดียวกัน

การบำรุงรักษา

⚠ ข้อควรระวัง:

- ตรวจสอบให้แน่ใจว่าสวิตช์เครื่องมืออยู่ในตำแหน่งปิดเครื่อง และกดปุ่มเครื่องมือออกก่อนดำเนินงานใดๆ กับเครื่องมือ
- อย่าใช้น้ำน้ำซื้อเพลิง แบนเชิน ทินเนอร์ และกากออลส์ หรือวัสดุประเภทเดียวกัน เพราะอาจทำให้เครื่องมือสึกด่าง บิดเบี้ยว หรือแตกหักได้ เพื่อความปลอดภัยและนาทีอีกของผลิตภัณฑ์ ควรให้ศูนย์บริการที่ผ่านการรับรองจาก Makita เป็นผู้ดำเนินการซ่อมแซม บำรุงรักษาและทำความสะอาด

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