

DEWALT®

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DW615

Fig. A

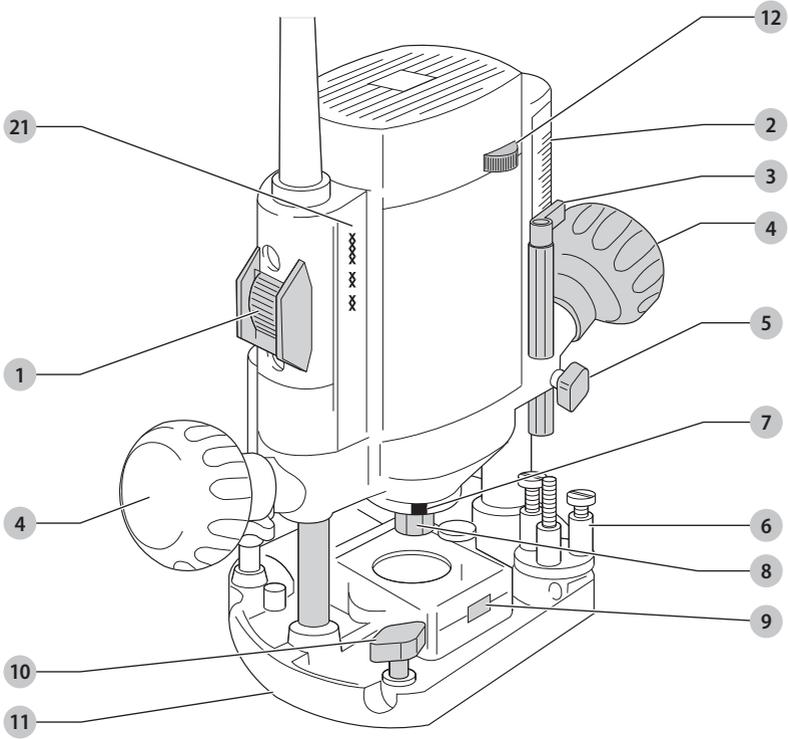


Fig. B

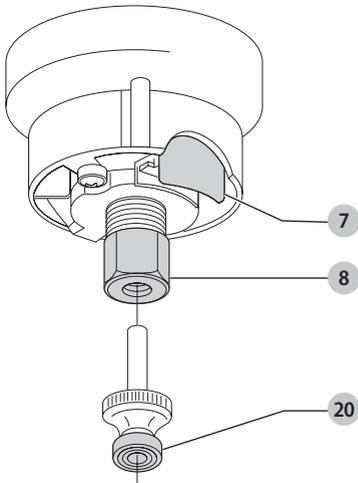


Fig. C

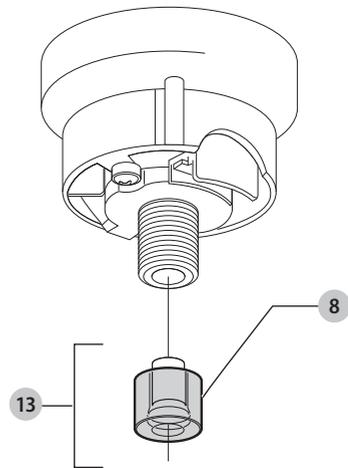


Fig. D

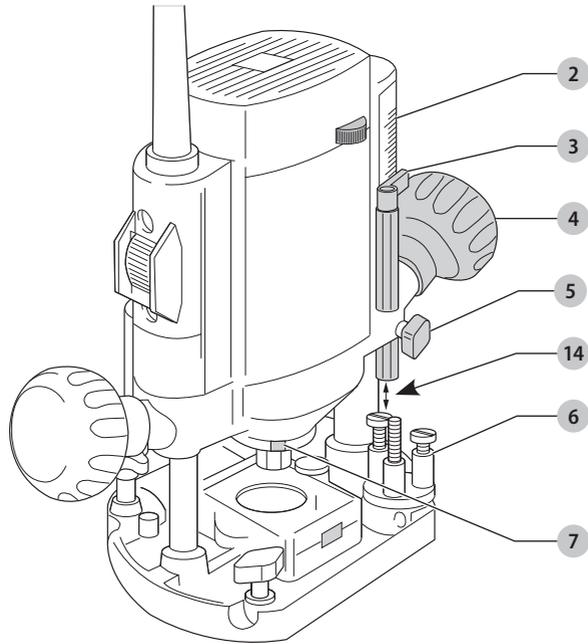
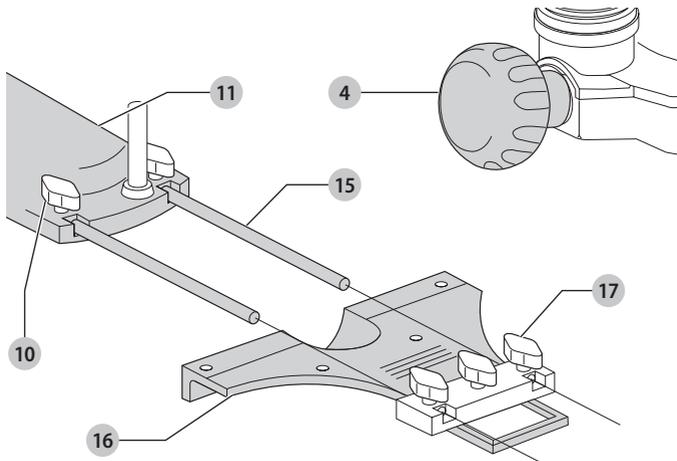


Fig. E



ROUTER

DW615

Congratulations!

You have chosen a DeWALT tool. Years of experience, thorough product development and innovation make DeWALT one of the most reliable partners for professional power tool users.

Technical Data

		DW615
Voltage	V _{AC}	230
UK & Ireland	V _{AC}	230/115
Type		4/5
Power input	W	1000
Power output	W	590
No-load speed	min ⁻¹	8000– 24000
Router carriage		2 columns
Plunge	mm	55
Revoler depth stop	kg	3-step-with graduation
Collet size		8 mm (GB: 1/4")
Cutters diameter, max.	mm	30
Weight	kg	2.9
Noise values and vibration values (triax vector sum) according to EN60745-2-17:		
L _{PA} (emission sound pressure level)	dB(A)	83
L _{WA} (sound power level)	dB(A)	92
K (uncertainty for the given sound level)	dB(A)	3.2
Vibration emission value a _h =	m/s ²	7.8
Uncertainty K =	m/s ²	1.7

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

! **WARNING:** The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool

and the accessories, keep the hands warm, organisation of work patterns.

EC-Declaration of Conformity

Machinery Directive



Router DW615

DeWALT declares that these products described under **Technical Data** are in compliance with: 2006/42/EC, EN60745-1:2009+A11:2010, EN60745-2-17.

These products also comply with Directive 2014/30/EU and 2011/65/EU. For more information, please contact DeWALT at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of DeWALT.

Markus Rompel
Director Engineering
DeWALT, Richard-Klinger-Straße 11,
D-65510, Idstein, Germany
05.02.2018



WARNING: To reduce the risk of injury, read the instruction manual.

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.



DANGER: Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.



WARNING: Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

NOTICE: Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.



Denotes risk of electric shock.



Denotes risk of fire.

General Power Tool Safety Warnings



WARNING: Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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.

1) Work area safety

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 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.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- 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.
- 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.
- Do not expose power tools to rain or wet conditions.**
Water entering a power tool will increase the risk of electric shock.
- 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.
- 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.
- 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.

3) Personal safety

- 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.
- 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.

- 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.
- 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.
- Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 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.
- 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.

4) Power tool use and care

- 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.
- 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.
- 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.
- 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.
- 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.
- Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.

5) Service

- a) **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.

Additional Specific Safety Rules for Routers

- **Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by your hand or against the body leaves is unstable and may lead to loss of control.

Additional Specific Safety Rules for Cutters

- Always use cutters with a shank diameter corresponding to the size of the collet installed in your tool.
- Always use cutters suitable for a speed of 30000 min⁻¹ and marked accordingly.



WARNING: Never use cutters with a diameter exceeding the maximum diameter indicated in the **technical data**.



WARNING: We recommend the use of a residual current device with a residual current rating of 30mA or less.

Residual Risks

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:

- Impairment of hearing.
- Risk of personal injury due to flying particles.
- Risk of burns due to accessories becoming hot during operation.
- Risk of personal injury due to prolonged use.

Electrical Safety

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate.



Your DEWALT tool is double insulated in accordance with EN60745; therefore no earth wire is required.



WARNING: 115 V units have to be operated via a fail-safe isolating transformer with an earth screen between the primary and secondary winding.

If the supply cord is damaged, it must be replaced by a specially prepared cord available through the DEWALT service organisation.

Mains Plug Replacement (U.K. & Ireland Only)

If a new mains plug needs to be fitted:

- Safely dispose of the old plug.
- Connect the brown lead to the live terminal in the plug.
- Connect the blue lead to the neutral terminal.



WARNING: No connection is to be made to the earth terminal.

Follow the fitting instructions supplied with good quality plugs. Recommended fuse: 13 A.

Using an Extension Cable

If an extension cable is required, use an approved 3-core extension cable suitable for the power input of this tool (see **Technical Data**). The minimum conductor size is 1.5 mm²; the maximum length is 30 m.

When using a cable reel, always unwind the cable completely.

Package Contents

The package contains:

- 1 Router
- 1 Parallel fence with guide rods
- 1 Collet 8 mm (GB: 1/4")
- 1 Wrench # 13/17
- 1 Guide bush 17 mm ø
- 1 Dust extraction channel
- 1 Instruction manual

- Check for damage to the tool, parts or accessories which may have occurred during transport.
- Take the time to thoroughly read and understand this manual prior to operation.

Markings on Tool

The following pictograms are shown on the tool:



Read instruction manual before use.

Date Code Position (Fig. A)

The date code **21**, which also includes the year of manufacture, is printed into the housing.

Example:

2018 XX XX

Year of Manufacture

Description (Fig. A)



WARNING: Never modify the power tool or any part of it. Damage or personal injury could result.

- 1 On/off switch
- 2 Routing depth graduation
- 3 Depth stop
- 4 Plunge limiter
- 5 Depth stop locking bolt
- 6 Revolver depth stop
- 7 Spindle lock
- 8 Collet nut
- 9 Dust extractor
- 10 Parallel fence locking bolt
- 11 Router base
- 12 Speed control dial

Intended Use

Your DEWALT high performance router DW615 has been designed for professional heavy duty routing applications.

DO NOT use under wet conditions or in the presence of flammable liquids or gases.

This router is a professional power tool.

DO NOT let children come into contact with the tool.

Supervision is required when inexperienced operators use this tool.

- **Young children and the infirm.** This appliance is not intended for use by young children or infirm persons without supervision.
- This product is not intended for use by persons (including children) suffering from diminished physical, sensory or mental abilities; lack of experience, knowledge or skills unless they are supervised by a person responsible for their safety. Children should never be left alone with this product.

ASSEMBLY AND ADJUSTMENTS



WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Cutters

The tooling can be used with the complete range of commercial cutters (e.g. straight, rebate, profile cutter, slotter cutter or grooved knife) with the following **technical data**:

1. Shank diameter 6 mm—8 mm
2. Cutter speed of min. 30000/min



WARNING: DW615 max diameter to use: Straight, rabbet or profile cutter with a max shank diameter of 8 mm, a max diameter of 36 mm and a max cutting depth of 10 mm;

- Slotter cutter with a max shank diameter of 8 mm and a max diameter 25 mm;
- Grooved knife with a max shank diameter of 8 mm, a max diameter of 40 mm and a cutting width of 4 mm.

Inserting and Removing a Cutter (Fig. B)

1. Press and hold down the spindle lock **7**.
2. Using the 17 mm wrench, loosen the collet nut **8** a few turns and insert a cutter.
3. Tighten the collet nut and release the spindle lock.



WARNING: Never tighten the collet nut without a cutter in the collet.

Replacing the Collet Assembly (Fig. C)

Your router is supplied with a 8 mm (GB: 1/4") collet fitted to the tool. Two other precision collets are also available to suit the cutter used. The collet and the collet nut are inseparable.

1. Loosen the collet nut **8** completely.
2. Remove the collet assembly **13**.
3. Fit a new assembly and tighten the collet nut **8**.

Setting the Electronic Speed Control Dial (Fig. A)

The speed is infinitely variable from 8000 to 24000 min⁻¹ using the electronic speed control dial **12**.

1. Turn the electronic speed control dial to the required level.
2. Generally, use the low setting for large diameter cutters and the high setting for small diameter cutters. The correct setting, however, is a matter of experience.
 - 1 ~ 8200 min⁻¹
 - 2 ~ 12000 min⁻¹
 - 3 ~ 16200 min⁻¹
 - 4 ~ 20500 min⁻¹
 - 5 ~ 24000 min⁻¹

Adjusting the Depth of Cut (Fig. D)

Depth Adjustment Using the Graduation and Revolver Depth Stop

1. Loosen the depth stop locking bolt **5**.
2. Unlock the plunge limiter **4** by turning it counterclockwise.
3. Lower the router carriage until the cutter is in contact with the workpiece.
4. Tighten the plunge limiter **4**.
5. Set the exact depth of cut using the graduation **2** or place a depth template between the depth stop **3** and the revolver depth stop **6**. The adjustment range is indicated by the arrows **14**.
6. Tighten the depth stop locking bolt **5**.

Triple Depth Adjustment

The revolver depth stop **6** can be used to set three different depths. This is particularly useful for deep cuts, performed in steps.

1. Place a depth template between the depth stop **3** and the revolver depth stop **6** to adjust the exact cutting depth.
2. If required, set all three screws.

Depth Adjustment with Router Installed in Inverted Position

1. Set the depth of cut prior to installing the router in inverted position.



WARNING: For installing the router in inverted position, refer to the relevant instruction manual on the stationary tool.

A fine depth adjuster (DE6956) is available as an accessory.

Fitting the Parallel Fence (Fig. A, E)

1. Fit the guide rods **15** to the router base **11**.
2. Tighten the locking bolts **10**.
3. Slide the parallel fence **16** over the rods.
4. Tighten the locking bolts **17** temporarily.

Adjusting the Parallel Fence (Fig. E)

1. Draw a cutting line on the material.
2. Lower the router carriage until the cutter is in contact with the workpiece.

- Tighten the plunge limiter **4**.
- Position the router on the cutting line. The outer cutting edge of the cutter must coincide with the cutting line.
- Slide the parallel fence **16** against the workpiece and tighten the locking bolts **17**.

Fitting a Guide Bush (Fig. F)

Together with a template, guide bushes play a valuable part in cutting and shaping to a pattern.

- Fit the guide bush **18** to the router base **11** using the screws **19** as shown.



WARNING: The screws **19** also hold the dust extraction channel. Never operate the router without this.



Connecting a Dust Extractor (Fig. A)

Connect a dust extractor hose to the dust extraction channel **9**.

Prior to Operation

- Check that the cutter is correctly installed in the collet.
- Set the cutting depth.
- Connect a dust extractor.
- Always make sure the plunge limiter is locked before switching ON.

OPERATION

Instructions for Use



WARNING: Always observe the safety instructions and applicable regulations.



WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.



WARNING: Always move your router as indicated in Fig. G (outer edges/inner edges).

Proper Hand Position (Fig. A, H)



WARNING: To reduce the risk of serious personal injury, ALWAYS use proper hand position as shown.



WARNING: To reduce the risk of serious personal injury, ALWAYS hold securely in anticipation of a sudden reaction.

Proper hand position requires one hand on each of the plunge limiters **4**.

Switching On and Off (Fig. A)

Switch the tool on using the on/off-switch **1**.

I = on. The tool now works continuously.

O = off.



WARNING: Loosen the plunge limiter and allow the router carriage to regain its rest position before switching off.

Using the Guide Bushes (Fig. F)

- Secure the template to the workpiece using end clamps.
- Select and install an appropriate guide bush **18**.
- Subtract the diameter of the cutter from the outside diameter of the guide bush and divide by 2. This will indicate how much larger the template should be in relation to the part being recessed.



WARNING: If the workpiece is not thick enough, place it on a piece of waste wood.

Guiding Off a Batten

Where an edge guide cannot be used, it is also possible to guide the router along a batten clamped across the workpiece (with an overhang at both ends).

Freehand Routing

Your router can also be used without any sort of guide, e.g. for signwriting or creative work.



WARNING: Make shallow cuts only! Use cutters with a max. diameter of 6 mm.

Routing with Pilot Cutters (Fig. B)

Where a parallel guide or guide bush are inappropriate, it is possible to use pilot cutters **20** for cutting shaped edges.

Consult your dealer for further information on the appropriate accessories.

These include finger jointing tools for dovetail and finger jointing jigs, dowel jointing templates, guide bushes, fine height adjusters, trammel bars and guide rails in various lengths.

MAINTENANCE

Your DEWALT power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.



WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.



Lubrication

Your power tool requires no additional lubrication.



Cleaning



WARNING: Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection and approved dust mask when performing this procedure.



WARNING: Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Optional Accessories



WARNING: Since accessories, other than those offered by DEWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DEWALT recommended accessories should be used with this product.

Consult your dealer for further information on the appropriate accessories.

Protecting the Environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

 Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions. Further information is available at www.2helpU.com.

Belgique et Luxembourg België en Luxemburg	DeWALT – Belgium BVBA Egide Walschaertsstraat 16 2800 Mechelen	Tel: NL 32 15 47 37 63 Tel: FR 32 15 47 37 64 Fax: 32 15 47 37 99	www.dewalt.be enduser.BE@SBDInc.com
Danmark	DeWALT (Stanley Black&Decker AS) Roskildevej 22 2620 Albertslund	Tel: 70 20 15 10 Fax: 70 22 49 10	www.dewalt.dk kundeservice.dk@sbdinc.com
Deutschland	DeWALT Richard Klingner Str. 11 65510 Idstein	Tel: 06126-21-0 Fax: 06126-21-2770	www.dewalt.de infodfwge@sbdinc.com
Ελλάδα	DeWALT (Ελλάδα) A.E. ΕΔΠΑ-ΓΡΑΦΕΙΑ : Στραβανός 7 & Λ. Βουλιαγμένης, Πλωπόδα 166 74, Αθήνα SERVICE : Ημερος Τόπος 2 (Χάνι Αδών) – 193 00 Ασπρόπυργος	Τηλ: 00302108981616 Φαξ: 00302108983570	www.dewalt.gr Greece.Service@sbdinc.com
España	DeWALT Ibérica, S.C.A. Parc de Negocios "Mas Blau" Edificio Muntadas, c/Bergadà, 1, Of. A6 08820 El Prat de Llobregat (Barcelona)	Tel: 934 797 400 Fax: 934 797 419	www.dewalt.es respuesta.postventa@sbdinc.com
France	DeWALT 5, allée des Hêtres BP 60105, 69579 Limonest Cedex	Tel: 04 72 20 39 20 Fax: 04 72 20 39 00	www.dewalt.fr scuf@sbdinc.com
Schweiz Suisse Svizzera	DeWALT In der Luberzen 42 8902 Urdorf	Tel: 044 - 755 60 70 Fax: 044 - 730 70 67	www.dewalt.ch service@rofoag.ch
Ireland	DeWALT Building 4500, Kinsale Road Cork Airport Business Park Cork, Ireland	Tel: 00353-2781800 Fax: 01278 1811	www.dewalt.ie Sales.ireland@sbdinc.com
Italia	DeWALT via Energypark 6 20871 Vimercate (MB), IT	Tel: 800-014353 39 039-9590200 Fax: 39 039-9590311	www.dewalt.it
Nederlands	DeWALT Netherlands BVPostbus 83, 6120 AB BORN	Tel: 31 164 283 063 Fax: 31 164 283 200	www.dewalt.nl
Norge	DeWALT Postboks 4613 0405 Oslo, Norge	Tel: 45 25 13 00 Fax: 45 25 08 00	www.dewalt.no kundeservice.no@sbdinc.com
Österreich	DeWALT Werkzeug Vertriebsges m.b.H Oberlaaerstrasse 248, A-1230 Wien	Tel: 01 - 66116 - 0 Fax: 01 - 66116 - 614	www.dewalt.at service.austria@sbdinc.com
Portugal	DeWALT Ed. D Dinis, Quina da Fonte Rua dos Malhoes 2 2A 2º Esq. Oeiras e S. Juliao da Barra, paço de Arcos e Caxias 2770 071 Paço de Arcos	Tel: +351 214667500 Fax: +351214667580	www.dewalt.pt resposta.posvenda@sbdinc.com
Suomi	DeWALT PL47 00521 Helsinki, Suomi	Puh: 010 400 4333 Faksi: 0800 411 340	www.dewalt.fi asiakaspalvelu.fi@sbdinc.com
Sverige	DeWALT BOX 94 43122 Mölndal Sverige	Tel: 031 68 61 60 Fax: 031 68 60 08	www.dewalt.se kundservice.se@sbdinc.com
Türkiye	Sanayi ve Ticaret Bakanlığı tebliğince kullanımı 7 yıldır. Stanley Black & Decker Turkey Alet Üretim San. Tic. Ltd.Şti. Kozyatağı Mh Değirmen Sk. Nida Kule No: 18 Kat: 6, 34742 Kadıköy, İstanbul, Türkiye	Tel: +90 216 665 2900 Faks: +90 216 665 2901	www.dewalt.com.tr info-tr@sbdinc.com
United Kingdom	DeWALT, 210 Bath Road; Slough, Berks SL1 3YD	Tel: 01753-567055 Fax: 01753-572112	www.dewalt.co.uk emaservice@sbdinc.com
Australia	DeWALT 810 Whitehorse Road Box Hill VIC 3103 Australia	Tel: Aust 1800 338 002 Tel: NZ 0800 339 258	www.dewalt.com.au www.dewalt.co.nz
Middle East Africa	DeWALT P.O. Box - 17164, Jebel Ali Free Zone (South), Dubai, UAE	Tel: 971 4 812 7400 Fax: 971 4 2822765	www.dewalt.ae Service.MEA@sbdinc.com