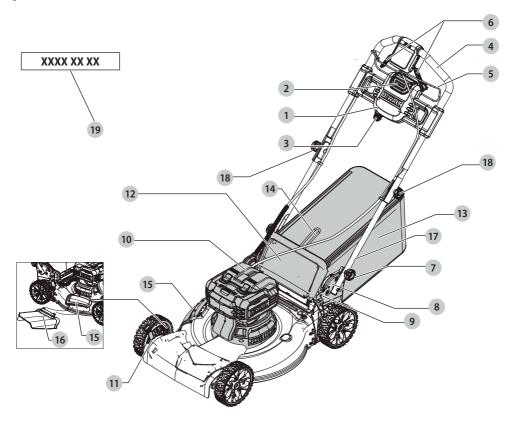
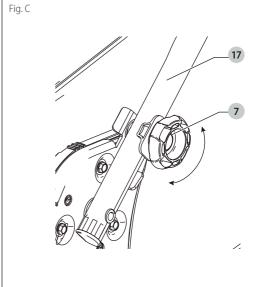
DEWALT® X LI-ION

Fig. A

Fig. B

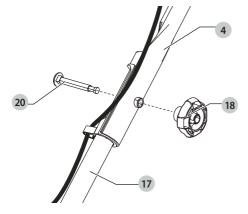


24



1

Fig. D



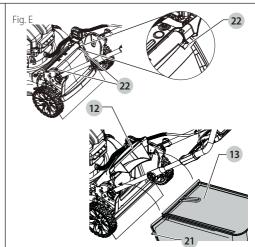
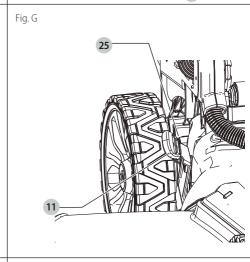
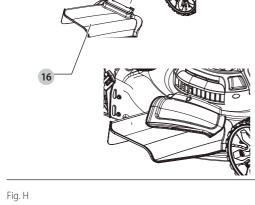
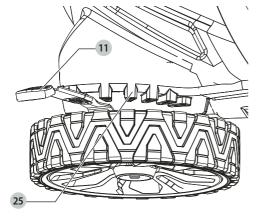


Fig. F







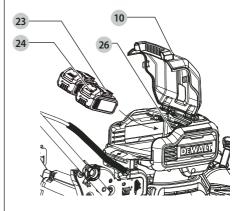


Fig. I

Fig. K Fig. J Fig. L Fig. M 28 Fig. O Fig. N 33 Fig. P

2 x 18V SELF-PROPELLED MOWER DCMWSP564

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

		DCMWSP564
Voltage	V_{DC}	2 x 18
Battery type		Li-lon
No load speed	/min	2500
Maximum speed	/min	2800
Blade Length	cm	53
Weight (without battery pack)	kg	26

Noise	Noise values and vibration values (triax vector sum) according to EN62841-1						
L_{PA}	(emission sound pressure level)	dB(A)	76				
L_{WA}	(sound power level)	dB(A)	87				
K	(uncertainty for the given sound level)	dB(A)	0.9				
Hand/arm weighted vibration value:							
Vi	bration emission value a _h =	m/s²	2.5				
U	ncertainty K =	m/s²	1.5				

The vibration and/or noise emission level given in this information sheet has been measured in accordance with a standardised test given in EN60335 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.



WARNING: The declared vibration and/or noise 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 and/or noise emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration and/or noise 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 and/or noise such as: maintain the tool and the accessories, keep the hands warm (relevant for vibration), organisation of work patterns.

EC-Declaration of Conformity Machinery Directive



2 x 18V Mower DCMWSP564

DEWALT declares that these products described under **Technical Data** are in compliance with:

2006/42/EC, EN60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019, EN60335-2-77:2010.

These products also comply with Directive 2014/30/EU and 2011/65/EU.

2000/14/EC, Lawnmower, 50 < L ≤ 70, Annex VI DEKRA Testing and Certification GmbH, Handwerkstraße 15, 70565 Stuttgart, Germany

Notified Body ID No.: 0158

Level of acoustic power according to 2000/14/EC (Article 12, Annex VI, $50 < L \le 70$ cm):

 L_{WA} (measured sound power) 87 dB(A) Uncertainty (K) = 0.9 dB(A)

L_{wa} (guaranteed sound power) 98 dB(A)

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

Vice-President Engineering, PTE-Europe DEWALT, Richard-Klinger-Straße 11, 65510, Idstein, Germany

30.09.2021

Batteries				Chargers/Charge Times (Minutes)									
Cat #	V_{DC}	Ah	Weight (kg)	DCB104	DCB107	DCB112	DCB113	DCB115	DCB116	DCB117	DCB118	DCB132	DCB119
DCB546	18/54	6.0/2.0	1.08	60	270	170	140	90	80	40	60	90	χ
DCB547	18/54	9.0/3.0	1.46	75*	420	270	220	135*	110*	60	75*	135*	Х
DCB548	18/54	12.0/4.0	1.46	120	540	350	300	180	150	80	120	180	Х
DCB181	18	1.5	0.35	22	70	45	35	22	22	22	22	22	45
DCB182	18	4.0	0.61	60/40**	185	120	100	60	60/45**	60/40**	60/40**	60	120
DCB183/B/G	18	2.0	0.40	30	90	60	50	30	30	30	30	30	60
DCB184/B/G	18	5.0	0.62	75/50**	240	150	120	75	75/60**	75/50**	75/50**	75	150
DCB185	18	1.3	0.35	22	60	40	30	22	22	22	22	22	40
DCB187	18	3.0	0.54	45	140	90	70	45	45	45	45	45	90
DCB189	18	4.0	0.54	60	185	120	100	60	60	60	60	60	120

^{*}Date code 201811475B or later

DECLARATION OF CONFORMITY THE SUPPLY OF MACHINERY (SAFETY) REGULATIONS 2008



2 x 18V Mower DCMWSP564

DEWALT declares that these products described under "technical data" are in compliance with:

The Supply of Machinery (Safety) Regulations, 2008, S.I. 2008/1597 (as amended), EN60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019, EN60335-2-77:2010.

These products also conform to the following UK Regulations

Electromagnetic Compatibility Regulations, 2016, S.I.2016/1091 (as amended).

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, S.I. 2012/3032 (as amended).

The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001, S.I. 2001/1701 (as amended), Schedule 9.

Intertek Testing & Certification Ltd, Academy Place, 1–9 Brook Street, Brentwood, Essex, CM14 SNQ, United Kingdom. Approved Body Number: 0359

Level of Acoustic Power according to (Schedule 1, Annex VI, $50 < L \le 70$:

 L_{WA} (measured sound power level) 87 dB(A), Uncertainty (K) = 0.9 dB (A),

L_{wa} (guaranteed sound power) 98 dB(A).

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 DFWALT.



Paul Featherstone
Vice President Professional Power Tools EANZ GTS
270 Bath Road, Slough
Berkshire SL1 4DX
England
30.09.2021



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.

Safety Instructions



WARNING: When using cordless appliances, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock, personal injury and material damage.



WARNING: When using the machine the safety rules must be followed. For your own safety and bystanders please read these instructions before operating the machine. Please keep the instructions safe for later use.

- Read all of this manual carefully before operating the appliance.
- The intended use is described in this manual. The use of any accessory or attachment or the performance of any operation with this appliance other than those

^{**}Date code 201536 or later

recommended in this instruction manual may present a risk of personal injury.

Retain this manual for future reference.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

Using Your Appliance

Always take care when using the appliance.

- This appliance is not intended for use by young or infirm persons without supervision.
- The appliance is not to be used as a toy.
- Do not allow children or animals to come near the work area or touch the appliance.
- Close supervision is necessary when the appliance is used near children.
- Use in a dry location only. Do not allow the appliance to become wet
- Do not immerse the appliance in water.
- Do not open body casing. There are no user serviceable parts inside.
- Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- Never operate the machine while people, especially children, or pets are nearby.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Before Use

- While operating the machine always wear substantial footwear and long trousers. Do not operate the machine when barefoot or wearing open sandals. Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
- Thoroughly inspect the area where the machine is to be used and remove all objects which can be thrown by the machine.
- Before using, always visually inspect to see that the blade, blade bolt and the blade assembly are not worn or damaged. Replace worn or damaged components in sets to preserve balance. Replace damaged or unreadable labels.

After Use

- When not in use, the appliance should be stored in a dry, well ventilated place out of the reach of children.
- Children should not have access to stored appliances.
- When the appliance is stored or transported in a vehicle it should be placed in the boot or restrained to prevent movement following sudden changes in speed or direction.

Inspection and Repairs

 Before use, check the appliance for damaged or defective parts. Check for breakage of parts, damage to switches and any other conditions that may affect its operation.

- Do not use the appliance if any part is damaged or defective.
- Have any damaged or defective parts repaired or replaced by an authorised repair agent.
- Never attempt to remove or replace any parts other than those specified in this manual.
- Be careful during adjustment of the mower to prevent entrapment of the fingers between moving blades/parts and fixed parts of the machine.
- When servicing the blades be aware that, even though the power source is switched off, the blades can still be moved.

Additional Safety Instructions for Lawn Mowers

- Do not transport the machine while the power source is running.
- Firmly grip handle with both hands when operating the lawn mower.
- If at any time it is felt necessary to tilt the lawn mower, make sure that both hands remain in the operating position while the lawn mower is tilted. Keep both hands in the operating position until the lawn mower is returned to rest correctly on the ground.
- Never wear radio or music headphones while operating the lawn mower.
- Never attempt to make a wheel height adjustment while the motor is running or while the safety key is in the switch housing.
- If the lawn mower stalls, release bail bar to turn mower off, wait for blade to stop, before attempting to unclog the chute or remove anything from under the deck.
- Keep hands and feet away from cutting area.
- Keep blades sharp. Always use protective gloves when handling the lawn mower blade.
- If you are using the grass collector, check it frequently for wear and deterioration. If excessively worn, replace with a new grass collector for your safety.
- Use extreme caution when reversing or pulling the lawn mower towards you.
- Do not put hands or feet near or under the lawn mower. Keep clear of the discharger opening at all times.
- Clear the area where the lawn mower is to be used of objects such as rocks, sticks, wire, toys, bones etc., which could be thrown by the blade. Objects struck by the blade can cause severe injury to persons. Stay behind the handle when the motor is running.
- Do not operate the lawn mower barefooted or while wearing sandals. Always wear substantial footwear.
- Do not pull lawn mower backward unless absolutely necessary. Always look down and behind before and while moving backward.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Release the bail bar

to turn the lawn mower off and stop the blade when crossing gravel surfaces.

- Do not operate the lawn mower without the entire grass collector, discharge guard, rear guard, or other safety protective devices in place and working. Periodically check all guards and safety protective devices to ensure they are in good working order and will operate properly and perform their intended function. Replace a damaged guard or other safety device before further use.
- Never leave a running lawn mower unattended.
- Always release the bail bar to stop the motor and wait until
 the blade comes to a complete stop before cleaning the lawn
 mower, removing the grass bag, unclogging the discharge
 guard, when leaving the lawn mower, or before making any
 adjustments, repairs or inspections.
- Operate lawn mower only in daylight or good artificial light when objects in the path of the blade are clearly visible from the operating area of the lawn mower.
- Do not operate the lawn mower while under the influence of alcohol or drugs, or when you are tired or ill. Always stay alert, watch what you are doing, and use common sense.
- Avoid dangerous environments. Never operate the lawn mower in damp or wet grass, never use lawn mower in the rain. Always be sure of your footing, walk, never run.
- If the lawn mower should start to vibrate abnormally, release
 the bail bar, wait for the blade to stop and then check for
 the cause immediately. Vibration is generally a warning of
 trouble, see the **Troubleshooting** for advice in the case of
 abnormal vibration.
- Always wear proper eye and respiratory protection when operating the lawn mower.
- The use of any accessory or attachment not recommended for use with this lawn mower could be hazardous. Only use accessories approved by DEWALT.
- Never overreach while operating the lawn mower. Always be sure to keep proper footing and balance at all times while operating the lawn mower.
- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, bumps, rocks or other hidden objects.
 Uneven terrain could cause a slip and fall accident. Tall grass can hide obstacles.
- Do not mow on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident.
- Do not mow near drop-offs, ditches, or embankments. You could lose your footing or balance.
- · Always allow the mower to cool down before storing.
- Pull the plug from the socket and pull the battery pack from the machine. Make sure that all moving parts have come to a complete stop:
 - Whenever you leave the machine;
 - Before clearing a blockage;
 - Before checking, cleaning or working on the appliance.

Safety of Others

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the appliance.
- After striking a foreign object. Inspect the appliance for damage and make repairs as necessary.

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:

- Injuries caused by touching any rotating/moving parts.
- Injuries caused when changing any parts, blades or accessories.
- Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- Impairment of hearing.
- Health hazards caused by breathing dust developed when using your tool (example:-working with wood, especially oak, beech and MDF.)
- Never pick up or carry an appliance while the motor is running.

SAVE THESE INSTRUCTIONS

Chargers

DEWALT chargers require no adjustment and are designed to be as easy as possible to operate.

Electrical Safety

The electric motor has been designed for one voltage only. Always check that the battery pack voltage corresponds to the voltage on the rating plate. Also make sure that the voltage of your charger corresponds to that of your mains.



Your DEWALTcharger is double insulated in accordance with EN60335; therefore no earth wire is required.

If the supply cord is damaged, it must be replaced only by DEWALT or an authorised 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: 3 A.

Using an Extension Cable

An extension cord should not be used unless absolutely necessary. Use an approved extension cable suitable for the power input of your charger (see *Technical Data*). The minimum conductor size is 1 mm²; the maximum length is 30 m.

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

Important Safety Instructions for All Battery Chargers

SAVE THESE INSTRUCTIONS: This manual contains important safety and operating instructions for compatible battery chargers (refer to **Technical Data**).

 Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.



WARNING: Shock hazard. Do not allow any liquid to get inside charger. Electric shock may result.



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



CAUTION: Burn hazard. To reduce the risk of injury, charge only DEWALT rechargeable batteries. Other types of batteries may burst causing personal injury and damage.



CAUTION: Children should be supervised to ensure that they do not play with the appliance.

NOTICE: Under certain conditions, with the charger plugged into the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

- DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual. The charger and battery pack are specifically designed to work together.
- These chargers are not intended for any uses other than charging DEWALT rechargeable batteries. Any other uses may result in risk of fire, electric shock or electrocution.
- · Do not expose charger to rain or snow.
- Pull by plug rather than cord when disconnecting charger. This will reduce risk of damage to electric plug and cord
- Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not use an extension cord unless it is absolutely necessary. Use of improper extension cord could result in risk of fire, electric shock, or electrocution.
- Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat.
 Place the charger in a position away from any heat source. The

- charger is ventilated through slots in the top and the bottom of the housina.
- Do not operate charger with damaged cord or plug have them replaced immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to an authorised service centre.
- Do not disassemble charger; take it to an authorised service centre when service or repair is required. Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
- In case of damaged power supply cord, the supply cord must be replaced immediately by the manufacturer, its service agent or similar qualified person to prevent any hazard.
- Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk.
- **NEVER** attempt to connect two chargers together.
- The charger is designed to operate on standard 230V household electrical power. Do not attempt to use it on any other voltage. This does not apply to the vehicular charger.

Charging a Battery (Fig. B)

- 1. Plug the charger into an appropriate outlet before inserting battery pack.
- Insert the battery pack 23 into the charger, making sure the battery pack is fully seated in the charger. The red (charging) light will blink repeatedly indicating that the charging process has started.
- 3. The completion of charge will be indicated by the red light remaining ON continuously. The battery pack is fully charged and may be used at this time or left in the charger. To remove the battery pack from the charger, push the battery release button 24 on the battery pack.

NOTE: To ensure maximum performance and life of lithium-ion battery packs, charge the battery pack fully before first use.

Charger Operation

Refer to the indicators below for the charge status of the battery pack.



*The red light will continue to blink, but a yellow indicator light will be illuminated during this operation. Once the battery pack has reached an appropriate temperature, the yellow light will turn off and the charger will resume the charging procedure. The compatible charger(s) will not charge a faulty battery pack.

The charger will indicate faulty battery by refusing to light.

NOTE: This could also mean a problem with a charger. If the charger indicates a problem, take the charger and battery pack to be tested at an authorised service centre.

Hot/Cold Pack Delay

When the charger detects a battery pack that is too hot or too cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery pack has reached an appropriate temperature. The charger then automatically switches to the pack charging mode. This feature ensures maximum battery pack life.

A cold battery pack will charge at a slower rate than a warm battery pack. The battery pack will charge at that slower rate throughout the entire charging cycle and will not return to maximum charge rate even if the battery pack warms.

The DCB118 charger is equipped with an internal fan designed to cool the battery pack. The fan will turn on automatically when the battery pack needs to be cooled. Never operate the charger if the fan does not operate properly or if ventilation slots are blocked. Do not permit foreign objects to enter the interior of the charger.

Electronic Protection System

XR Li-lon tools are designed with an Electronic Protection System that will protect the battery pack against overloading, overheating or deep discharge.

The tool will automatically turn off if the Electronic Protection System engages. If this occurs, place the lithium-ion battery pack on the charger until it is fully charged.

Wall Mounting

These chargers are designed to be wall mountable or to sit upright on a table or work surface. If wall mounting, locate the charger within reach of an electrical outlet, and away from a corner or other obstructions which may impede air flow. Use the back of the charger as a template for the location of the mounting screws on the wall. Mount the charger securely using drywall screws (purchased separately) at least 25.4 mm long with a screw head diameter of 7–9 mm, screwed into wood to an optimal depth leaving approximately 5.5 mm of the screw exposed. Align the slots on the back of the charger with the exposed screws and fully engage them in the slots. **Charger**

Cleaning Instructions



WARNING: Shock hazard. Disconnect the charger from the AC outlet before cleaning. Dirt and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Battery Packs

Important Safety Instructions for All Battery Packs

When ordering replacement battery packs, be sure to include catalogue number and voltage.

The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.

READ ALL INSTRUCTIONS

- Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger may ignite the dust or fumes.
- Never force battery pack into charger. Do not modify battery pack in any way to fit into a non-compatible charger as battery pack may rupture causing serious personal injury.
- Charge the battery packs only in DEWALT chargers.
- DO NOT splash or immerse in water or other liquids.
- Do not store or use the tool and battery pack in locations where the temperature may fall below 4 °C (39.2 °F) (such as outside sheds or metal buildings in winter), or reach or exceed 40 °C (104 °F) (such as outside sheds or metal buildings in summer).
- Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire. Toxic fumes and materials are created when lithium-ion battery packs are burned.
- If battery contents come into contact with the skin, immediately wash area with mild soap and water. If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.
- Contents of opened battery cells may cause respiratory irritation. Provide fresh air. If symptoms persists, seek medical attention.



WARNING: Burn hazard. Battery liquid may be flammable if exposed to spark or flame.



WARNING: Never attempt to open the battery pack for any reason. If battery pack case is cracked or damaged, do not insert into charger. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (i.e., pierced with a nail, hit with a hammer, stepped on). Electric shock or electrocution may result. Damaged battery packs should be returned to service centre for recycling.



WARNING: Fire hazard. Do not store or carry the battery pack so that metal objects can contact exposed battery terminals. For example, do not place the battery pack in aprons, pockets, tool boxes, product kit boxes, drawers, etc., with loose nails, screws, keys, etc.



CAUTION: When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over

Transportation



WARNING: Fire hazard. Transporting batteries can possibly cause fire if the battery terminals inadvertently come in contact with conductive materials. When transporting batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit. **NOTE:** Lithium-ion batteries should not be put in checked baggage.

DEWALT batteries comply with all applicable shipping regulations as prescribed by industry and legal standards which include UN Recommendations on the Transport of Dangerous Goods; International Air Transport Association (IATA) Dangerous Goods Regulations, International Maritime Dangerous Goods (IMDG) Regulations, and the European Agreement Concerning The International Carriage of Dangerous Goods by Road (ADR). Lithium-ion cells and batteries have been tested to section 38.3 of the UN Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria.

In most instances, shipping a DEWALT battery pack will be excepted from being classified as a fully regulated Class 9 Hazardous Material. In general, only shipments containing a lithium-ion battery with an energy rating greater than 100 Watt Hours (Wh) will require being shipped as fully regulated Class 9. All lithium-ion batteries have the Watt Hour rating marked on the pack. Furthermore, due to regulation complexities, DEWALT does not recommend air shipping lithium-ion battery packs alone regardless of Watt Hour rating. Shipments of tools with batteries (combo kits) can be air shipped as excepted if the Watt Hour rating of the battery pack is no greater than 100 Wh. Regardless of whether a shipment is considered excepted or fully regulated, it is the shipper's responsibility to consult the latest regulations for packaging, labeling/marking and documentation requirements.

The information provided in this section of the manual is provided in good faith and believed to be accurate at the time the document was created. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with the applicable regulations.

Transporting the FLEXVOLT™ Battery

The DeWALT FLEXVOLT™ battery has two modes: **Use** and **Transport**.

Use Mode: When the FLEXVOLT[™] battery stands alone or is in a DEWALT 18V product, it will operate as an 18V battery. When the FLEXVOLT[™] battery is in a 54V or a 108V (two 54V batteries) product, it will operate as a 54V battery.

Transport Mode: When the cap is attached to the FLEXVOLT[™] battery, the battery is in Transport mode. Keep the cap for shipping.

When in Transport mode, strings of cells are electrically disconnected within the pack resulting in 3 batteries with a



lower Watt hour (Wh) rating as compared to 1 battery with a higher Watt hour rating. This increased quantity of 3 batteries with the lower Watt hour rating can exempt the pack from

certain shipping regulations that are imposed upon the higher Watt hour batteries.

For example, the Transport
Wh rating might indicate
3 x 36 Wh, meaning
3 batteries of 36 Wh each.
The Use Wh rating might
indicate 108 Wh (1 battery implied).



Storage Recommendations

- The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold. For optimum battery performance and life, store battery packs at room temperature when not in use.
- For long storage, it is recommended to store a fully charged battery pack in a cool, dry place out of the charger for optimal results.

NOTE: Battery packs should not be stored completely depleted of charge. The battery pack will need to be recharged before use.

Labels on Charger and Battery Pack

In addition to the pictographs used in this manual, the labels on the charger and the battery pack may show the following pictographs:



Read instruction manual before use.



See **Technical Data** for charging time.



Do not probe with conductive objects.



Do not charge damaged battery packs.



Do not expose to water.



Have defective cords replaced immediately



Charge only between 4 °C and 40 °C.



Only for indoor use.



Discard the battery pack with due care for the environment.



Charge DEWALT battery packs only with designated DEWALT chargers. Charging battery packs other than the designated DEWALT batteries with a DEWALT charger may make them burst or lead to other dangerous situations.



Do not incinerate the battery pack.



USE (without transport cap). Example: Wh rating indicates 108 Wh (1 battery with 108 Wh).



TRANSPORT (with built-in transport cap). Example: Wh rating indicates 3 x 36 Wh (3 batteries of 36 Wh).

Battery Type

The following tools operate on a 18 volt battery pack: DCMWSP564. Cat #3.

These battery packs may be used: DCB181, DCB182, DCB183, DCB183B, DCB183G, DCB184, DCB184B, DCB184G, DCB185, DCB187, DCB189, DCB546, DCB547, DCB548. Refer to *Technical Data* for more information.

Package Contents

The package contains:

- 1 Lawn mower
- 1 Grass Collection Bag
- 1 Side Discharge Chute
- 1 Safety Key
- 1 Instruction manual

NOTE: Battery packs, chargers and kitboxes are not included with N models. Battery packs and chargers are not included with NT models. B models include Bluetooth® battery packs.

NOTE: The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth®, SIG, Inc. and any use of such marks by DEWALT is under license. Other trademarks and trade names are those of their respective owners.

- 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.



Beware of sharp blades. Blades continue to rotate after the motor is switched off. Remove disabling device before maintenance.



Beware of flying objects. Keep bystanders away from the cutting area.



Directive 2000/14/EC guaranteed sound power.



Do not expose to rain.



The blades will continue to rotate after the machine is switched off.

Date Code Position (Fig. A)

The date code 19 , which also includes the year of manufacture, is printed into the housing.

Example:

2021 XX XX

Year and Week 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 box
- 2 ON-OFF button
- 3 Safety key
- 4 Main handle (upper handle)
- 5 Bail handle
- 6 Self drive bail handle
- 7 Handle locks
- 8 Handle brackets
- 9 Handle storage detent holes
- 10 Battery port cover
- 11 Cut height adjust lever
- 12 Rear door cover
- 13 Grass collection bag
- 14 Grass collection bag handle
- 15 Side flap
- 16 Side discharge chute
- 17 I ower handle
- 18 Upper handle knobs

Intended Use

This lawn mower has been designed for professional lawn mowing applications.

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

This lawn mower is a professional lawn care appliance.

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



DANGER: To reduce the risk of serious personal injury, turn unit off and remove the safety key and battery packs before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Adjusting Handle Height (Fig. A, C)

The mower is shipped in storage mode. You will need to adjust the handle to operating position before continuing.

- To unlock the lower handle 17 from the storage position, twist the two handle lock knobs 7 a quarter turn. The handle lock knobs 7 are located on both sides of the lower handle 17.
- 2. Raise the lower handle to the operating position. Take care to not pinch or stress the cord.
- 3. Twist the handle lock knobs 7 a quarter turn, securing the lower handle into position.

Attaching Upper Handle (Fig. A, D)

Line up the holes on the bottom of the upper handle 4
 with the holes on the top of the lower handle 17. Take care
 to not pinch or stress the cord.

NOTE: Make sure the cord is located on the front of both handles. If it is not it may result in the cord tangling and the inability to easily store the mower.

- From the inside of the lower handle 4, insert the handle bolt 20 through the two handle holes. Repeat for the opposite side.
- From the outside of the upper handle tighten a handle knob 18 onto each handle bolt 20. Take care to not pinch or stress the cord

Grass Collection Bag (Fig. E)



DANGER: Turn unit off and remove safety key and battery packs.

- Lift the rear door cover 11 and place the grass collection bag 12 onto the mower so the bag lugs 16 slide into the slots 17 on the inside plastic surfaces of the handle brackets as shown in Fig. G. Then lower the rear door cover.
- 2. If installed, remove side discharge chute **16** and make sure side flap **15** is fully down.

Side Discharge (Fig. A, F)



DANGER: Turn unit off and remove safety key and battery packs.

- To operate mower in side discharge mode, remove the grass collection bag 13.
- 2. Be sure rear door cover **12** is closed.
- 3. Lift the side flap **15** and hook side discharge chute **16** onto the mower.
- 4. Release the side flap and ensure the side discharge chute **16** holds in place before turning mower on.

Mulching (Fig. A, E, F)



DANGER: Turn unit off and remove safety key and battery packs.

- 1. To operate mower in mulching mode, remove the grass collection bag **13**.
- 2. Be sure rear door cover 12 is closed.
- If installed, remove side discharge chute 16 and make sure side flap 15 is fully down.

Adjusting Mower Height (Fig. G, H)



DANGER: Never attempt to adjust mower height with the motor running.

The height of cut is adjusted by the front and rear cut height adjustment levers 11.

NOTE: If you are not sure what height to cut at, begin mowing with the front and rear cut height adjustment levers **11**, positioned at the highest settings and adjust the height down as needed for your application.

To Set the Height of Cut

- 1. Pull the rear cut height adjustment lever **11** out of the locking notch **25**.
- 2. Move the lever towards the front of the appliance to raise the height of cut as desired.
- 3. Move the lever towards the rear of the appliance to lower the height of cut as desired.
- 4. Push the cut height adjustment lever 11 into one of the locking notches 25 to set the height.
- 5. Repeat for the front cut height adjustment lever 11 except that the lever is moved towards the rear of the appliance to raise the height of cut, and towards the front of the appliance to lower the height of cut.
 NOTE: For best results, the front and rear cut height adjustment levers 11 should be set to the same cut height as indicated by the number next to the notch.

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 battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Proper Hand Position (Fig. L)



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 both hands grasping the main handle 4, and bail handle 5.

READ THIS INSTRUCTION MANUAL BEFORE OPERATING YOUR MOWER

Refer to Figure A at the beginning of this manual for a complete list of components. Save this manual for future reference.



DANGER: Sharp moving blade. Do not operate the mower in mulching mode if the rear door and side discharge door are not closed under spring tension as serious injury could result. Take your mower to the nearest service center for repair.



DANGER: Do not operate mower unless handle is locked into position.



DANGER: Sharp moving blade. Never operate the mower in bagging mode unless the bag lugs on the grass collection bag are seated properly on the mower and the rear discharge door rests firmly against the top of the grass collection bag as serious injury could result.



WARNING: Let the mower work at its own pace. Do not overload.

Installing and Removing the Battery Packs (Fig. I)



DANGER: MAKE CERTAIN THE SAFETY KEY IS REMOVED TO PREVENT ACTUATION BEFORE REMOVING OR INSTALLING BATTERIES.

This mower is designed to operate on two battery packs of equal capacity. The mower will not operate on a single battery pack, and If using different capacity battery packs, the smaller capacity battery pack, when depleted, will cause the unit to turn off.

NOTE: For best results, make sure the battery packs **d** are fully charged.

To Install the Battery Packs

- 1. Lift and hold the battery port cover **10** up to expose the battery ports **18**.
- 2. Slide a battery pack 23 into the battery port until an audible click is heard. Repeat for the second battery

NOTE: Ensure the battery packs are fully seated and fully latched into position before starting mower.

3. Close the battery port cover. Ensure the cover is fully closed before starting mower.

To Remove the Battery Packs

- 1. Lift and hold the battery port cover up to expose the battery ports.
- 2. Depress the battery release button **24** on the battery packs and pull the battery packs out of tool.

Safety Key (Fig. J)



DANGER: Sharp moving blade. In order to prevent accidental start-up or unauthorized use of your cordless mower, a removable safety key 3 has been incorporated into the design of your mower. The mower will be completely disabled when the safety key has been removed from the mower.



DANGER: Rotating blades can cause serious injury. To prevent serious injury, turn unit off and remove safety key and battery packs when unattended, or when charging, cleaning, servicing, transporting, lifting, or storing mower.

Starting Mower (Fig. I–L)



DANGER: Sharp moving blade. Never attempt to override the operation of the switch box and safety key system as serious injury could result.



WARNING: Ensure self drive is disengaged before starting the mower

NOTE: Mower is operational when battery packs and safety key are installed.

- 1. Lift and hold the battery port cover **10** up to expose the battery port **26**.
- Slide a battery pack 23 into the battery port 26 until an audible click is heard. Repeat this process for the second battery port.
 - **NOTE:** Ensure the battery packs are fully seated and fully latched into position before starting mower.
- 3. Close the battery port cover. Ensure the cover is fully closed before starting mower.
- 4. Insert safety key 3 into the ON-OFF switch box 1 until it is fully seated inside housing. The mower is now operational.
- 5. Your mower is equipped with a special ON-OFF switch box 1. To operate the mower, push and hold the ON-OFF button 2 on the ON-OFF switch box 1, then pull the bail handle 5 to the main handle 4.
- **NOTE:** Once the mower starts you can release the ON-OFF button, but you must continue to hold the bail handle to the main handle for the mower to run.
- 6. To turn the mower OFF, release the bail handle 5.



WARNING: Never attempt to lock a switch or bail handle in the ON position.

NOTE: Once the bail handle has returned to the original position it will activate the "Automatic Braking Mechanism". The motor is braked and the mower blade will stop rotating in three seconds or less. If mower blade rotates longer than three seconds, discontinue using mower and have it serviced.

Variable Speed Self Drive System (Fig. L)



DANGER: Sharp moving blade. Never attempt to override the operation of the switch box, the self drive system or the safety key system as serious injury could result.

Your mower is equipped with variable speed self drive. This system is dependent on the blade ON-OFF switch. It can only be used with the blade spinning.

- 1. Follow **Starting Mower** instructions.
- To turn on self drive, hold blade bail handle 5 in place against the main handle 4 with one hand.
- 3. Pull the self speed lever 6 toward the main handle with your other hand.
- 4. You can hold just the speed lever **6** or hold both bail handle **5** and speed lever simultaneously.
- 5. To turn off self drive, release the speed lever 6.

NOTE: When you turn off the self drive, for example at the end of a row, the wheels may become temporarily locked if you pull backwards on the mower. Simply push ahead slightly and then move the mower as required.

NOTE: During cutting, at times it may be easier to maneuver around an object, such as a tree or plants, with the self drive off. The mower can easily be used with the self drive off.

Variable Speed Ajustment Wheel (Fig. L)

Your mower is equipped with a variable speed adjustment wheel 36 located on the bottom of self drive housing 28. This system adjusts how quickly or slowly the self drive system propells the mower.

- 1. To increase the speed of the self drive system, rotate the variable speed adjustment wheel 36 in the direction indicated by the arrow located next to the variable speed adjustment wheel 36.
- 2. To decrease the speed of the self drive system, rotate the variable speed adjustment wheel 36 in the opposite direction indicated by the arrow located next to the variable speed adjustment wheel 36.

Mower Overload

To prevent damage due to overload conditions, do not try to remove too much grass at one time. Slow down your cutting pace, or raise the cut height.

Storage (Fig. C, D)



DANGER: Rotating blade can cause serious injury.

Release bail handle to turn mower off, remove safety key, and remove battery packs before lifting, transporting, or storing the mower. Store in a dry place.



CAUTION: Pinch point. To avoid being pinched, keep fingers away from area around handle brackets when folding down handles.

The handle of the mower can be easily folded down for quick and convenient storage.

- 1. On the lower handle, twist the handle lock knobs 7 a quarter turn.
- 2. Rotate the handle towards the front of the mower. Take care to not pinch or stress the cord.
- 3. Twist the handle lock knobs 7 a quarter turn to lock the handle into storage position.
- 4. The mower can be stored standing up, with the collection bag removed, or flat on its wheels.

MAINTENANCE

Your 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 battery pack before making any adjustments or removing/ **installing attachments or accessories.** An accidental start-up can cause injury.

The charger and battery pack are not serviceable.

Removing and Installing Blade (Fig. M, N)



DANGER: RISK OF INJURY. WHEN REASSEMBLING THE BLADE SYSTEM, ENSURE EACH PART IS REINSTALLED CORRECTLY, AS DESCRIBED BELOW. IMPROPER ASSEMBLY OF THE BLADE OR OTHER PARTS OF THE BLADE SYSTEM MAY CALISE SERIOLIS IN ILIRY



DANGER: To reduce the risk of serious personal injury, turn unit off, remove safety key and battery packs before making any adjustments or removing/ **installing attachments or accessories.** An accidental start-up can cause injury.

Replacement blades are available from your nearest authorized service center. This mower requires replacement blade DT20682.

1. Cut a piece of 2" x 4" wood 29 (about 2 feet long) (610 mm) to keep blade from turning when removing the blade bolt 30.



WARNING: Use gloves and proper eye protection. Turn the mower on its side. Be careful of sharp edges of blade.

- 2. Position wood and unscrew the blade bolt counterclockwise with a 5/8" wrench 31 (not included) as shown in Fig. N.
- 3. Remove blade bolt spring plate 32 and blade 33 as shown in Fig. M. Examine all pieces for damage and replace if necessary.
- 4. Install sharpened or new blade on shoulder of the blade adapter 34 as shown in Fig. M. Blade has a winged cut out which must match and engage the same shaped projection on the blade adapter.

NOTE: When replacing sharpened or new blade on shoulder of blade adapter make sure the bottom of the blade as marked BOTTOM will be facing the ground when the mower is returned to its normal upright position.

- 5. Install the spring plate on the blade. Be sure to align the bosses on the spring plate with the detents in the blade, rotating the blade and spring plate together as necessary.
- 6. Position piece of wood to keep blade from turning as shown in Fig. N. Install blade bolt and securely tighten the blade with a 5/8" wrench.

Blade Sharpening

KEEP BLADE SHARP FOR BEST MOWER PERFORMANCE. A DULL BLADE DOES NOT CUT GRASS CLEANLY



WARNING: Use gloves and proper eye protection while removing, sharpening, and installing blade. Ensure that safety key and battery pack are removed.

Sharpening the blade twice during a mowing season is usually sufficient under normal circumstances. Sand causes the blade to dull quickly. If your lawn has sandy soil, more frequent sharpening may be required. REPLACE BENT OR DAMAGED BLADE IMMEDIATELY.

When Sharpening the Blade:

- Make sure blade remains balanced.
- Sharpen blade at the original cutting angle.

 Sharpen cutting edges on both ends of blade, removing equal amounts of material from both ends.

To Sharpen Blade in a Vise (Fig. 0)

- Be sure the bail handle is released, the blade has stopped and safety key and battery packs are removed before removing the blade.
- 2. Remove blade from mower. See instructions for *Removing* and *Installing Blade*.
- 3. Secure blade 33 in a vise 35.
- 4. Wear proper eye protection and gloves and be careful not to cut yourself.
- Carefully file the cutting edges of the blade with a fine tooth file 37 (not included) or sharpening stone (not included), maintaining the angle of the original cutting edge.
- 6. Check balance of blade. See instructions for **Blade Balancing**.
- 7. Replace blade on mower and tighten securely.

Blade Balancing (Fig. P)

Check balance of the blade 33 by placing center hole in the blade over a nail or round screwdriver 36, clamped horizontally in a vise 35. If either end of the blade rotates downward, file along the sharp edge of that dropping end. Blade is properly balanced when neither end drops.



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.

Release bail handle 6 to turn mower off, let the blade come to a stop and then remove the battery packs and safety key. Clean out any clippings which may have accumulated on the underside of the deck. Do not spray water or other liquids. After several uses, check all exposed fasteners for tightness.

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.

Rechargeable Battery Pack

This long life battery pack must be recharged when it fails to produce sufficient power on jobs which were easily done before. At the end of its technical life, discard it with due care for our environment:

- Run the battery pack down completely, then remove it from the tool.
- Li-lon cells are recyclable. Take them to your dealer or a local recycling station. The collected battery packs will be recycled or disposed of properly.

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N886026 09/21