DEWALT®

Instruction Manual
Manual de instrucciones
Guide d'tilisation

DXBD4801

4 X 8"(100 x 200 mm) BELT / DISC SANDER

LIJADORA DE CORREA / DISCO DE 102 MM x 203 MM (4 PULG. x 8 PULG.)

PONCEUSE À BANDE/DISQUE DE 102 MM x 203 MM (4 PO x 8 PO)

www.DEWALT.com

If you have questions or comments, contact us.
Si tiene dudas o comentarios, contáctenos.
Pour toute question ou tout commentaire, nous contacter.
833-312-4043

English ***(original instructions)*** 1

Español (traducido de las instrucciones originales) 25

Français (Description originale) 49

Definitions: Safety Alert Symbols and Words

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk of personal injury or property damage.

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

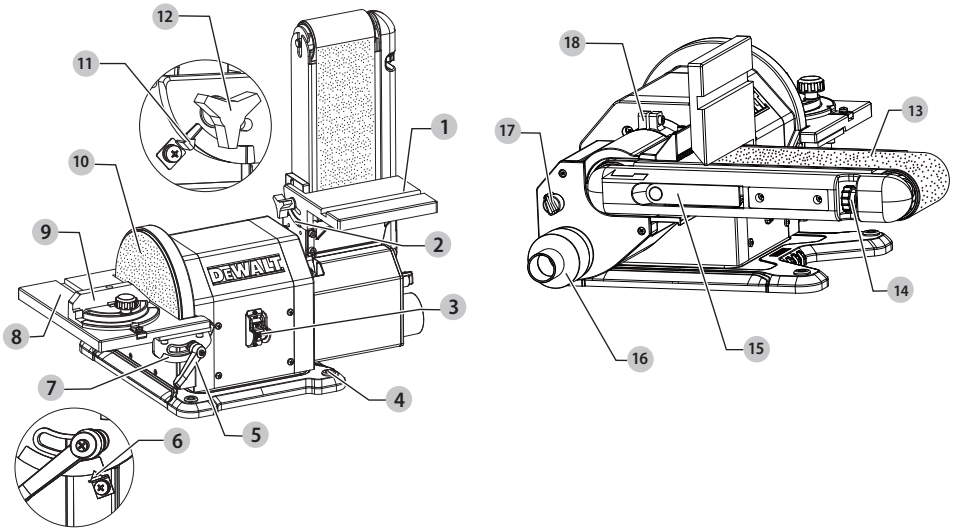
WARNING: *Indicates a potentially hazardous situation which, if not avoided,* ***could*** *result in* ***death or serious injury****.*

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

(Used without word) Indicates a safety related message.

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

Fig. A



COMPONENTS

1. Belt worktable
2. Belt worktable scale
3. On/Off switch and switch key
4. Mounting hole
5. Disc worktable lock handle
6. Disc worktable scale angle pointer
7. Disc worktable scale
8. Disc worktable
9. Miter gauge
10. 8 in. diameter sanding disc
11. Belt worktable scale angle pointer
12. Belt worktable lock knob
13. 4 in. width/36 in. length sanding belt
14. Tracking knob
15. Belt tension lever
16. Dust exhaust joint
17. Dust exhaust knob
18. Belt frame connection

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.*

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

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

If you have any questions or comments about this product, call toll free at: 833-312-4043.

4 X 8"(100 x 200 mm) BELT / DISC SANDER
DXBD4801

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

a) ***Keep work area clean and well lit.*** *Cluttered or dark areas invite accidents.*

b) ***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.*

c) ***Keep children and bystanders away while operating a power tool.*** *Distractions can cause you to lose control.*

2) Electrical Safety

a) ***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.*

b) ***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.*

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

d) ***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.*

e) ***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.*

f) ***If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.*** *Use of a GFCI reduces the risk of electric shock.*

3) Personal Safety

a) ***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.*

b) ***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.*

c) ***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 energizing power tools that have the switch on invites accidents.*

d) ***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.*

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

f) ***Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.*** *Loose clothes, jewelry or long hair can be caught in moving parts.*

g) ***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.*

h) ***Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.*** *A careless action can cause severe injury within a fraction of a second.*

4) Power Tool Use and Care

a) ***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.*

b) ***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.*

c) ***Disconnect the plug from the power source and/or remove the battery, pack if detachable, 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.*

d) ***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.*

e) ***Maintain power tools and accessories. 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.*

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

g) ***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.*

h) ***Keep handles and grasping surfaces dry, clean and free from oil and grease.*** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

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.***

SAFETY INSTRUCTIONS FOR BELT / DISC SANDER

a) ***Use*** *sander on horizontal surfaces only. Operating the sander when mounted on non-horizontal surfaces might result in motor damage.*

b) ***To prevent*** *it from tipping over or moving when in use, the sander must be securely fastened to a bench top or supporting surface.*

c) ***Place*** *the sander so neither the user nor bystanders are forced to stand in line with the abrasive belt or disc.*

d) ***Make sure*** *the sanding belt is installed in the correct direction. See directional arrow on back of belt.*

e) ***Always*** *have the tracking adjusted properly so the belt does not run off the pulleys.*

f) ***Do not use*** *sanding belts or discs that are damaged, torn or loose. Use only correct size sanding belt and disc. Narrower belts uncover parts that could trap fingers.*

g) ***Make sure*** *there are no nails or foreign objects in the part of the workpiece to be sanded.*

h) ***Always hold*** *the workpiece firmly when sanding. Keep hands away from sanding belt or disc. Sand only one workpiece at a time.*

i) ***Always hold*** *the workpiece firmly on the table when using the disc sander and when using the belt sander.*

j) ***Always sand on the downward side*** *of the sanding disc when using the disc sander. Sanding on the upward side of the disc could cause the workpiece to fly out of position, resulting in injury.*

k) ***Always*** *maintain a minimum clearance of 1/16 in. (1.6 mm) or less between the table or backstop and the sanding belt or disc.*

l) ***Do not*** *sand pieces of material that are too small to be safely supported.*

m) ***Keep*** *fingers away from where the belt goes into the dust trap.*

n) ***When*** *sanding a large workpiece, provide additional support at table height.*

o) ***Do not*** *sand with the workpiece unsupported. Support the workpiece with the backstop or table. Plan your work support.*

p) ***Never use another person*** *as additional support for a workpiece longer or wider than the table.*

q) ***Always*** *remove scrap pieces and other objects from the table, backstop or belt before turning the sander ON.*

r) ***Never*** *perform layout, assembly or set-up work on the table while the sander is operating.*

s) ***Never*** *use solvents to clean plastic parts. Solvents could dissolve or otherwise damage the material. Use only a soft damp cloth to clean plastic parts.*

t) ***Should*** *any part of your sander be missing, damaged, or fail in any way, or any electrical components fail to perform properly, shut off switch and remove plug from power source outlet. Replace missing, damaged or failed parts before resuming operation.*

u) ***Never pull the power cord*** *out of the receptacle by pulling on the cord. Keep cords away from heat, oil and sharp edges.*

v) ***Have an electrician replace or repair*** *damaged or worn cords immediately.*

w) *This tool is not approved for use for any material other than wood and wood products.*

PROPOSITION 65 WARNING

WARNING: *Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to: www.P65Warnings.ca.gov/wood*

Some examples of these chemicals are:

- *Lead from lead-based paints,*
- *Crystalline silica from bricks and cement and other masonry products, and*
- *Arsenic and chromium from chemically-treated lumber.*

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Handling the power cord on this product may expose you to chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

For more information go to: www.P65Warnings.ca.gov

READ INSTRUCTION MANUAL: *To reduce the risk of injury, user and all bystanders must read instruction manual before using this product.*

- ***Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water.*** *Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.*

WARNING: *Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.*

WARNING: Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use. *Under some conditions and duration of use, noise from this product may contribute to hearing loss.*

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 will stand upright but may be easily knocked over.*

- ***Air vents often cover moving parts and should be avoided.*** *Loose clothes, jewelry or long hair can be caught in moving parts.*

ELECTRICAL SPECIFICATIONS AND SAFETY

Power supply and motor specifications

WARNING: *To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Use a separate electrical circuit for your tool. Your sander is wired at the factory for 120 V operation. Connect to a 120 V, minimum 5 Amp circuit and use a 5 Amp time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn, cut, or damaged in any way, have it replaced immediately.*

Grounding instructions

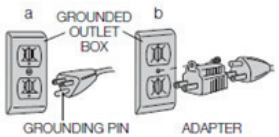
WARNING: *This tool must be grounded while in use to protect the operator from electrical shock.*

In the event of a malfunction or breakdown, *grounding provides a path of least resistance for electric currents to reduce the risk of electric shock. The sander must be connected to a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.*

DANGER: *Improper connection of the equipment grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or service person if the grounding instructions are not completely understood, or if in doubt as to whether the sander is properly grounded. Do not modify the plug connected to the sander – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.*

FOR GROUNDED, CORD-CONNECTED SANDER RATED LESS THAN 15A AND INTENDED FOR USE ON A NOMINAL 120V SUPPLY CIRCUIT

The sander is for use on a nominal 120V circuit, and should be connected to a grounding outlet that looks like that illustrated in sketch a. A temporary adaptor, which looks like the adaptor illustrated in sketch b, may be used to connect this plug to a 2-pole receptacle as shown in sketch b if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.



NOTE: *IN CANADA, THE USE OF A TEMPORARY ADAPTOR IS NOT PERMITTED BY THE CANADIAN ELECTRICAL CODE. Ensure that the sander is connected to an outlet having the same configuration as the plug.*

Use of Extension Cords with Sander

Only use a grounded extension cord that is rated at least 5 amps and has a third-wire ground. When a long extension cord is used to connect the sander, a voltage drop occurs. The longer the cord, the greater the voltage drop. This results in less voltage being supplied to the sander and increases the amount of current (amp) draw or reduces performance. A heavier cord with a larger wire size will reduce the voltage drop. Be sure to choose a cord that will supply enough voltage to operate the sander. The table below indicates appropriate gauge for extension cords.

Minimum Gauge for Extension Cord Sets						
Ampere Rating		Volts	Total Length of Cord in Feet (meters)			
		120V	25 (7.6)	50 (15.2)	100 (30.5)	150 (45.7)
		240V	50 (15.2)	100 (30.5)	200 (61.0)	300 (91.4)
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12

WARNING: *Keep electrical cords in good condition. Do not use worn, bare, or frayed cords because they can cause electrical shock.*

WARNING: *Operating equipment at low voltage can cause it to overheat. Using an excessively long extension cord can cause the cord to overheat.*

The label on your tool may include the following symbols. The symbols and their definitions are as follows:

V ..... volts
Hz ..... hertz
min ..... minutes
⎓ or DC..... direct current
..... Class I Construction (grounded)
. . . /min..... per minute
BPM..... beats per minute
IPM ..... impacts per minute
RPM..... revolutions per minute
sfpm ..... surface feet per minute
SPM ..... strokes per minute
OPM..... oscillations per minute
A ..... amperes
W..... watts
~ or AC..... alternating current
≂ or AC/DC.... alternating or direct current
..... Class II Construction (double insulated)
n_0 ..... no load speed
n ..... rated speed
..... earthing terminal
..... safety alert symbol
..... visible radiation
..... avoid staring at light
..... wear respiratory protection
..... wear eye protection
..... wear hearing protection
..... read all documentation
../min or ..min-1. Revolutions or Reciprocations per minute
2 ~..... two phase alternating current
2N ~..... two phase alternating current with neutral
3 ~..... three phase alternating current
3N ~..... three phase alternating current with neutral
..... rated current of the appropriate fuse-link in amperes
..... time-log miniature fuse-link where X is the symbol for the time/current characteristic, as given in IEC 60127-3
IPXX..... IP symbol

SAVE THESE INSTRUCTIONS FOR FUTURE USE

Motor

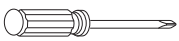
Be sure your power supply agrees with the nameplate marking. Voltage decrease of more than 10% will cause loss of power and overheating. These tools are factory tested; if this tool does not operate, check power supply.

TOOLS NEEDED FOR ASSEMBLY

Supplied

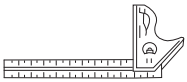
5 mm hex wrench

Not supplied



Phillips Screwdriver

Adjustable Wrench



Combination Square

Level

CARTON CONTENTS

Unpacking And Checking Contents

Carefully unpack the belt/disc sander and all its parts, and compare against the list below and the illustration. With the help of an assistant, place the sander on a secure surface and examine it carefully.

WARNING: *To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a source of power during unpacking and assembly. The cord must remain unplugged whenever you are adjusting/assembling the sander.*

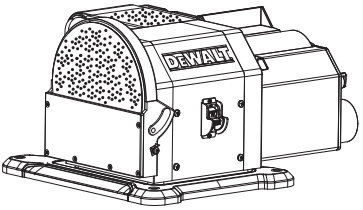
WARNING: *The sander is heavy and should be lifted with care. If needed, get the assistance of someone to lift and move the sander.*

WARNING: *If any part is missing or damaged, do not attempt to assemble the sander, or plug in the power cord until the missing or damaged part is correctly replaced.*

Table of Loose Parts

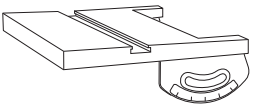
ITEM	DESCRIPTION	Q'TY
A.	Belt/disc sander	1
B.	Instruction manual	1
C.	Disc worktable	1
D.	Belt worktable	1
E.	Dust exhaust joint	1
F.	Hardware bag	
	Handles & Washers	2 each
	Knob & washer	1 each
	Hex key	1
G.	Miter gauge	1
H.	Rubber feet	4

UNPACKING YOUR BELT / DISC SANDER



A

B



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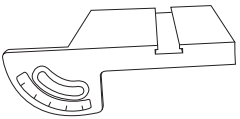

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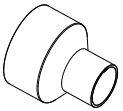

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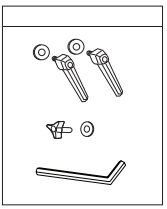
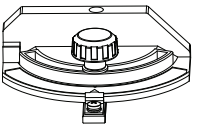
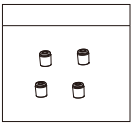


F



G



H

WARNING: Many illustrations in this manual show only portions of the Belt/disc sander. This is intentional so that points being made in the illustrations can be highlighted. Never operate the sander without all guards securely in place and in good operating condition.

ASSEMBLY AND ADJUSTMENTS

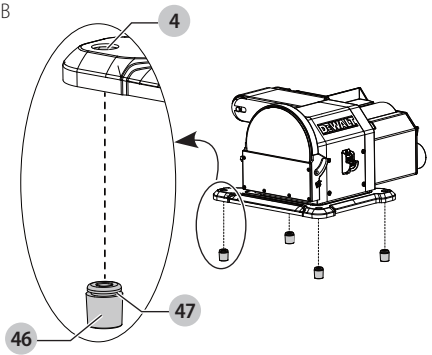
Estimated Assembly Time: 50 - 60 minutes

WARNING: For your safety, never connect plug to power source receptacle until all assembly and adjustment steps are complete, and you have read and understood the safety instructions.

Installing The Rubber Foot Onto The Sander (Fig. B)

1. **Bag "H" -** Put the rubber foot **46** with the groove end **47** toward to the holes **4** on the base of the sander.
2. Insert the four rubber feet **46** into the mounting hole **4** from bottom to top as shown in Fig. B. The rubber feet will be fixed in the mounting hole by the groove.

Fig. B



Installing The Worktable On Disc (Fig. C, D)

1. **Bag "F"** - Locate disc worktable lock handles **5** and washers **19** in parts bag. (Fig. C)
2. Place the disc worktable **8** onto the sander frame, aligning the semi-circle slot **20** with the threaded hole **21**.
3. Place a washer **19** on threaded shaft of each worktable handle **5**, insert through semi-circular slot **20**, and tighten into threaded hole **21**. Repeat on other side of table.
4. Adjust worktable to level or any angle between 0° and 45° for sanding.

NOTE: Always check to make sure the handles are tight before beginning any sanding operation.

CAUTION: To avoid trapping the workpiece or fingers between the disc worktable 8 and sanding disc 10, the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding disc plate as shown in Fig.D.

Fig. C

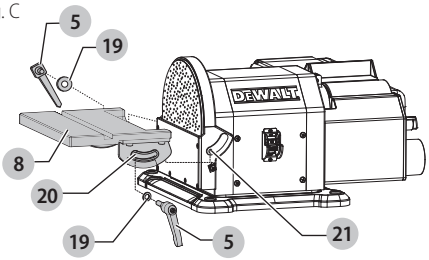
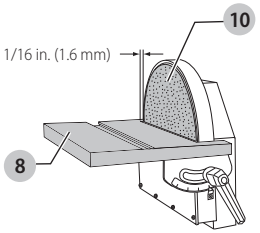


Fig. D



Installing The Worktable On Belt (Fig. E, F)

The small worktable is used with the sanding belt. It should be used to support workpieces in all sanding operations except inside curve applications.

1. Loosen the inner hex screw **22** using the 5 mm hex key, and raise the sanding belt **13** in the vertical position. Tighten the inner hex screw. (Fig. E)
2. **Bag "F"** - Locate belt worktable knob **12** and washer **23** in parts bag. (Fig. F)
3. Place the belt worktable **1** onto the sander frame, aligning the semi-circle slot **24** with the threaded hole **25**.
4. Place washer **23** on threaded shaft of belt worktable knob **12**, insert through semi-circular slot **24**, and tighten into threaded hole **25**.
5. Adjust worktable to level or any angle between 0° and 45° for sanding.

CAUTION: To avoid trapping the workpiece or fingers between the belt worktable 1 and sanding belt 13, the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding belt.

Fig. E

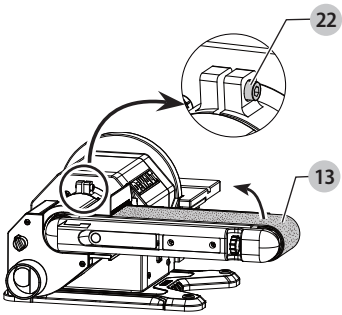
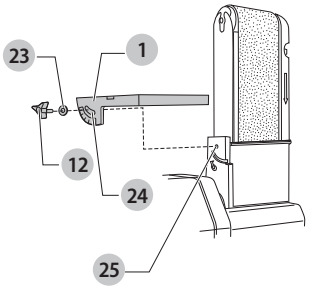


Fig. F



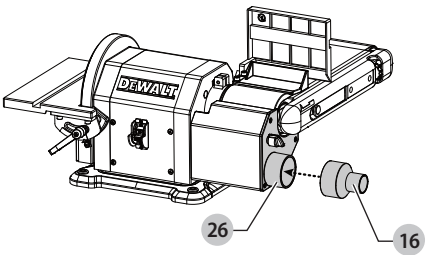
Installing Dust Exhaust (Fig. G)

WARNING: *Sanding operations are inherently dusty. To help minimize the amount of dust that escapes into the surrounding air, this sander is equipped with a dust exhaust joint. It is strongly recommended that users attach the dust exhaust joint when using this belt / disc sander.* ***Use of a mask or respirator is still recommended even when a dust-collection system is in use.***

1. Attach the provided dust exhaust joint **16** onto the dust exhaust port **26** of the sander.

   NOTE: The dust exhaust port **26** is 2-1/2 in. and provides 1-1/4 in. dust exhaust joint **16** for your choice.

Fig. G

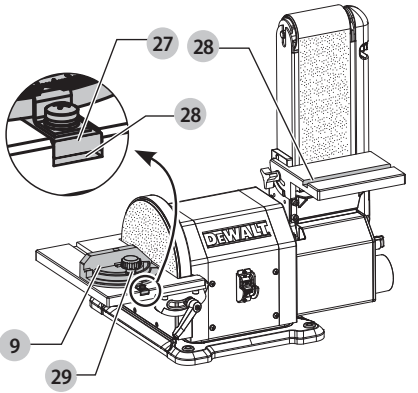


Miter Gauge (Fig. H)

A miter gauge **9** is supplied with your sander and can be used with both sanding tables. The miter gauge body can be adjusted from 0° to 60° right or left for angle or miter sanding.

1. Install the miter bar **27** into the table slot **28** as shown.
2. Loosen the lock knob **29** and then rotate miter gauge body to the desired angle.
3. Tighten the lock knob **29**.

Fig. H



Mounting Belt / Disc Sander To Workbench (Fig. I)

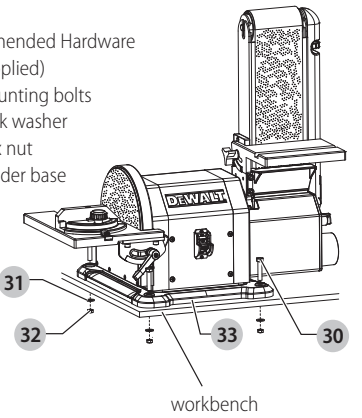
WARNING: *If during operation there is any tendency for the sander to tip over, slide or walk on the supporting surface, it is recommended that you mount the sander on a flat and level workbench or stand to avoid any movement during operation. Four mounting holes are located on the base of the sander for this purpose.*

1. Place the sander on a surface that is level but also provides enough room on all sides for the workpiece and for the operator (or bystanders) to not be standing in line with the wood while using the tool. Allow room for the belt to be positioned horizontally or vertically.
2. The hardware to mount this sander is NOT supplied with the sander.

WARNING: *To avoid injury, always keep the plug disconnected from the power source and the switch turned OFF until the sander is completely assembled and adjusted properly.*

Fig. I

Recommended Hardware
(not supplied)
30. Mounting bolts
31. Lock washer
32. Hex nut
33. Sander base



Adjusting Disc Worktable Square With Sanding Disc (Fig. J)

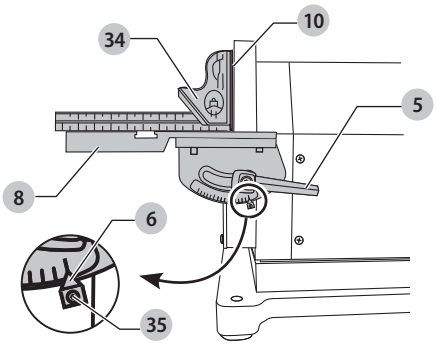
1. Using a combination square **34**, place one side of the square on the disc worktable **8** with the other side against the sanding disc **10**, and check to see if the disc worktable is 90° to the sanding disc.
2. If the disc worktable surface is not 90° to the sanding disc, loosen the disc worktable lock handle **5**, adjust table square with sanding disc and tighten the disc worktable lock handle **5**.
3. Loosen the screw **35** and secure the disc worktable scale angle pointer **6** at 0°.

CAUTION: *To avoid trapping the workpiece or fingers between the disc worktable* **8** *and sanding disc* **10**, *the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding disc plate.*

Adjusting Disc Worktable Angle (Fig. J)

1. The disc worktable **8** can be tilted from 0° to 45° by loosening the disc worktable lock handles **5** at the both sides of disc worktable.
2. Tilt the disc worktable **8** to the desired angle.
3. Tighten the disc worktable lock handles **5**.

Fig. J



Adjusting Belt Worktable Square With Sanding Belt (Fig. K)

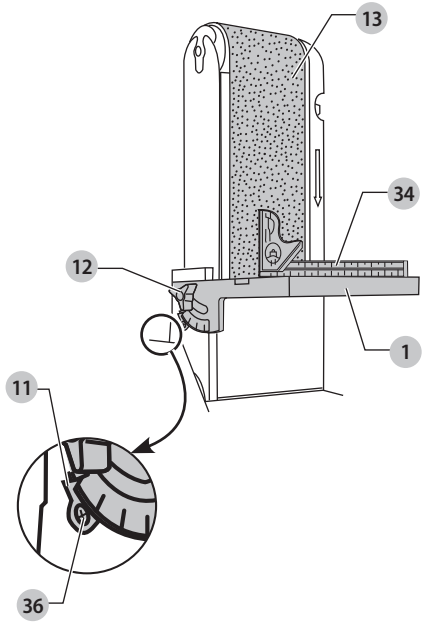
1. Using a combination square **34**, place one side of the square on the belt worktable **1** with the other side against the sanding belt **13**, and check to see if the belt table is 90° to the belt.
2. If the belt worktable surface is not 90° to the sanding belt, loosen the belt worktable lock knob **12**, adjust table square with sanding belt and tighten the belt worktable lock knob.
3. Loosen the screw **36** and secure the belt worktable scale angle pointer **11** at 0°.

CAUTION: *To avoid trapping the workpiece or fingers between the belt worktable* **1** *and sanding belt* **13**, *the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding belt.*

Adjusting Belt Worktable Angle (Fig. K)

1. The belt worktable **1** can be tilted from 0° to 45° by loosening the belt worktable lock knob **12** at the both sides of belt worktable.
2. Tilt the belt worktable **1** to the desired angle.
3. Tighten the belt worktable lock knob **12**.

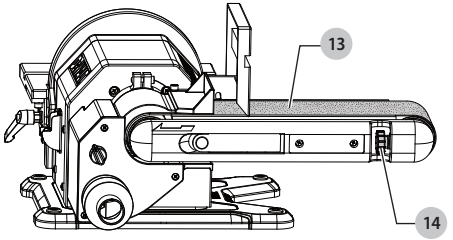
Fig. K



To Properly Track The Sanding Belt (Fig. L)

1. Plug in the sander.
2. Turn power switch ON, then immediately OFF, noting whether the sanding belt **13** tends to slide off its track, and to which side (front or back) of the sander.
3. If the sanding belt does not slide to either side, it is tracking properly.
4. Viewed from the switch end, if the sanding belt runs toward the sanding disc, slightly turn the tracking knob **14** clockwise (down).
5. Viewed from the switch end, if the sanding belt runs away from the sanding disc, slightly turn the tracking knob counterclockwise (up).
6. Turn power switch ON, then immediately OFF again, again taking note of any belt movement.
7. Readjust tracking knob another 1/4 turn, as necessary.

Fig. L



OPERATION

WARNING: *The belt/disc sander is designed to perform sanding operations on surface, and edge grain. The sander will also perform freehand forming and contouring operations.*

The following suggestions are recommended for best results and safest use.

1. Always apply light pressure allowing the abrasive to remove the material slowly.
2. The workpiece should be moved, continuously, to avoid burning.
3. Avoid sanding small pieces of wood which will position the fingers close to the abrasive belt or disc.

"ON/OFF" Switch (Fig. M)

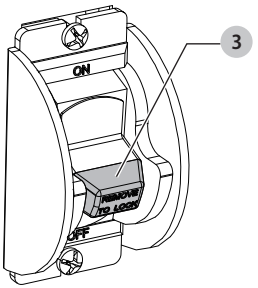
WARNING: *To avoid injury, always keep the plug disconnected from the power source and the switch turned OFF until the sander is completely assembled and adjusted properly.*

The ON/OFF power switch is located on the front of the sander, and incorporates a removable safety key **3**.

1. To turn the machine "ON", move the switch up to the "ON" position.
2. To turn the machine "OFF", move the switch down to the "OFF" position.

In situations where the sander may be left unattended, the operator has the option of removing the "yellow" safety key **3** of the ON/OFF switch to render the sander inoperable. When the operator is ready to use the machine again, simply insert the "yellow" safety key **3** into the slot in the switch and push it in until it "seats".

Fig. M

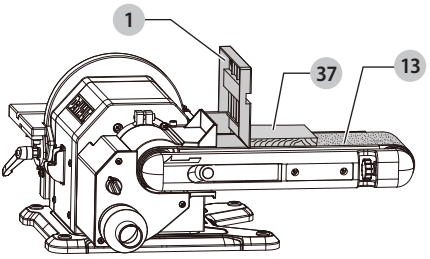


Belt Horizontal Sanding (Fig. N)

WARNING: *To avoid trapping the workpiece or fingers between the worktable and sanding belt, the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding belt.*

When using the sanding belt in the horizontal position, to perform surface or edge sanding, the belt worktable **1** must always be used. Always hold the workpiece **37** firmly keeping your fingers away from the sanding belt **13**. Always keep the end of the workpiece against the belt worktable **1** and move the work evenly across the sanding belt **13**. Apply only enough pressure to allow the sanding belt to remove material. Use extra caution when sanding very thin pieces.

Fig. N

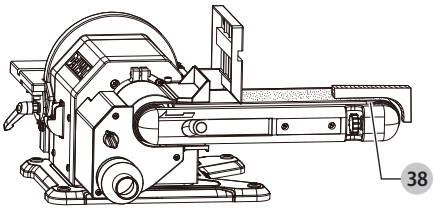


Sanding Inside Curves (Fig. O)

WARNING: *To avoid injury, do not apply the end of the workpiece to the idle drum* **38**. *This could cause the workpiece to fly up or cause kickback.*

With care, freehand sanding of inside curves can be accomplished on the idler drum **38**. Never attempt to sand the ends of a workpiece on the idler drum **38**.

Fig. O



Belt Vertical Sanding (Fig. P, Q)

Your belt/disc sander - belt station can sand vertically as well as horizontally. Depending on operator needs and the workpiece, the worktable can be used with either the horizontal or vertical position.

To change from one position to the other:

1. Loosen the inner hex screw **22** by turning it counterclockwise with the 5 mm hex wrench.
2. Manually move the work support station into the vertical or horizontal position, as required.
3. Retighten the inner hex screw **22** by turning it clockwise.

Fig. P

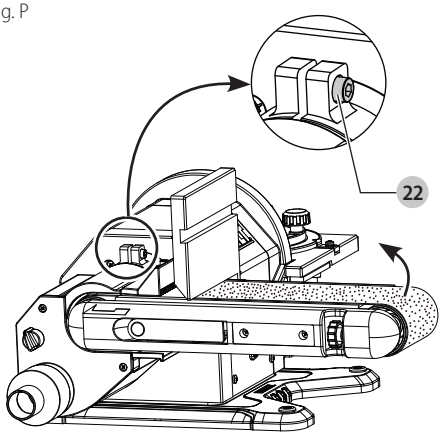
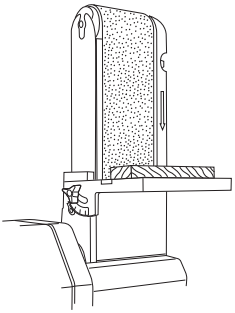


Fig. Q



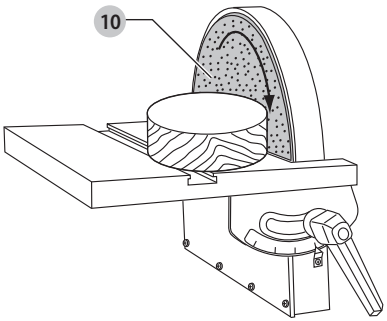
Sanding Outside Curves (Fig. R)

WARNING: *Always sand on the right (downward) side of the sanding disc* **10** *as shown. Sanding on the left (upward) side of the sanding disc could cause the workpiece to fly up which could be hazardous.*

WARNING: *The edge of the table must be positioned a maximum of 1/16 in. (1.6 mm) from the sanding disc to avoid trapping the workpiece or fingers between the disc table and sanding disc.*

Freehand sanding of outside curves should be done on the sanding disc **10**. Keep fingers a minimum of 1 in. (25.4 mm) from the sanding disc.

Fig. R



Operating Dust Exhaust (Fig. S)

WARNING: *Sanding operations are inherently dusty. To help minimize the amount of dust that escapes into the surrounding air, this sander is equipped with a dust exhaust joint. It is strongly recommended that users attach a shop vacuum when using this belt/disc sander. Use of a mask or respirator is still recommended even when a dust-collection system is in use.*

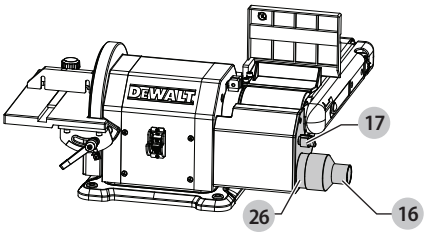
NOTE: The dust exhaust port **26** accepts a standard 2-1/2 in. (63.5 mm) and 1-1/4 in. (31.75 mm) with attach dust exhaust joint **16** dry/wet vacuum hose adaptor. Do not operate the sander without first turning on the shop vacuum.

WARNING: *FIRE HAZARD. Collected sanding dust from sanding surface coatings (polyurethane, linseed oil, etc.) can self-ignite in dust collector or elsewhere and cause fire. To reduce risk, follow sander's manual and coating manufacturer's instructions strictly.*

WARNING: *This tool is not approved for use for any material other than wood and wood products.*

1. Press the dust exhaust knob **17** to the bottom and rotate the knob to "BELT". Then release the knob **17** to collect the dust from sanding belt.
2. Press the dust exhaust knob **17** to the bottom and rotate the knob to "DISC". Then release the knob **17** to collect the dust from sanding disc.

Fig. S



MAINTENANCE

WARNING: *For your safety, turn switch OFF and remove the power cord from the electrical outlet before adjusting or performing maintenance on the sander.*

WARNING: *To avoid electric shock or fire, all repairs to the electrical components should be done by a qualified service technician. Before each use check for damaged, missing, or worn parts; check for alignment of moving parts, binding, improper mounting, or any other conditions that may affect the operation. Should any of these conditions exist, do not use the sander until properly repaired or parts are replaced. Frequently blow or vacuum dust from all sander parts and motor housing.*

WARNING: *To avoid injury from unexpected starting or electrical shock, unplug the power cord before working on the sander.*

WARNING: *To avoid electrical shock, fire or injury, use only parts identical to those identified in the parts list. Reassemble exactly as the original assembly to avoid electrical shock.*

Replacing Sanding Disc (Fig. T, U)

WARNING: *To avoid injury, turn switch OFF and disconnect the plug from the power source before removing and installing sanding disc.*

A sanding disc is pre-mounted at the factory. Use only sanding discs that measure 6 in. (150 mm) in diameter.

1. Remove the disc worktable and then remove the disc cover **39** by removing six screws **40**. (Fig. T)
2. Remove the existing disc, and clean any residue left on disc plate **41**. Only use mineral spirits to remove this residue.
3. Peel the plastic **42** back from new sanding disc **10** and carefully press sanding disc firmly in position around the sanding plate. Make sure the disc is centered on the plate. (Fig. U)
4. Reinstall the disc cover **39**, tighten six screws **40** and place sanding table back on unit.

Fig. T

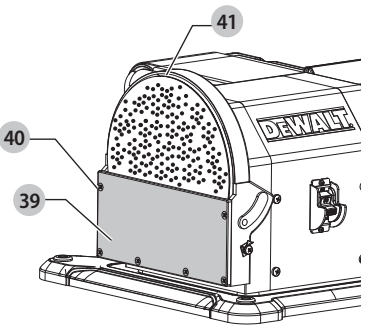
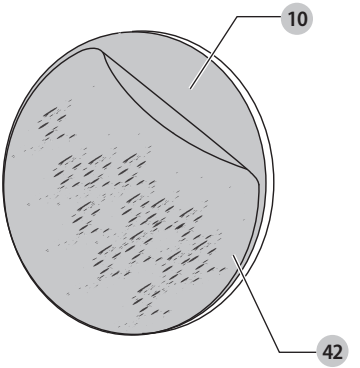


Fig. U



Replacing Sanding Belt (Fig. V, W)

WARNING: *To avoid injury, turn switch OFF and disconnect the plug from the power source before removing and installing sanding belt. Use only sanding belts that measures 4 in. (100 mm) in width / 36 in. (915 mm) in length.*

1. Remove the belt worktable.
2. Position the belt work support frame horizontally as shown in Fig. V. Loosen the inner hex screw **22** by using a 5 mm hex wrench, turning it counterclockwise. Do not remove the screw.
3. Remove the two screws **43** **44** by using a 5 mm hex wrench, and pull out the belt tension lever **15** to release the tension of the sanding belt **13**. Remove the belt exhaust cover **45**.
4. Remove the sanding belt **13** from both sanding drums **38**.
5. Place new sanding belt over sanding drums. Make sure the belt arrow located on the inside of the belt is pointed in the right direction.
6. Replace the belt exhaust cover **45** in position.
   NOTE: Stretch the belt from the right side to make top and lower sides of the belt flat and tight as shown in Fig. W for keeping the belt exhaust cover **45** away from interfering with the sanding belt when placing the belt exhaust cover on.
7. Replace and tighten the two screws **43** **44** and push the belt tension lever **15** in to apply belt tension.
8. Push the belt by hand and check if the sanding belt tends running to one side or the other of the two drums.
9. View from the switch end of sander, if the sanding belt runs toward disc, slightly turn the tracking knob **14** clockwise (down).
10. View from the switch end of sander, if the sanding belt runs away from the disc, slightly turn the tracking knob **14** counterclockwise (up).
11. Plug in the sander and turn the switch ON and OFF quickly to check if the sanding belt moves to either side. Readjust and fine-tune the belt tracking if necessary.

Fig. V

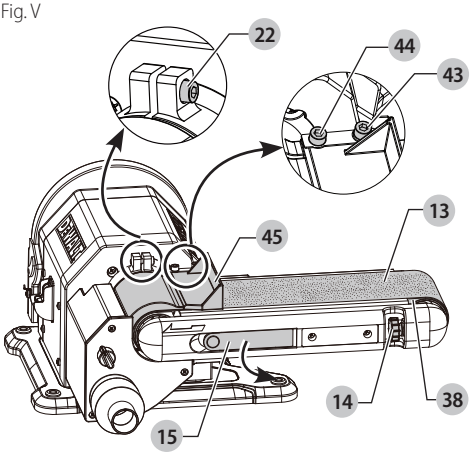
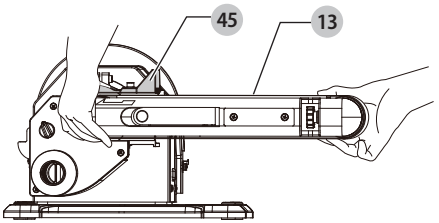


Fig. W



Lubrication

Ball bearings are grease packed at the factory and require no further lubrication. Use a paste wax to ensure smooth operation on all moving table parts. Do not use any lubrication on the belt plate as this might end up on the wheels, causing them to slip.

Free Warning Label Replacement

If your warning labels become illegible or are missing, call 833-312-4043 for a free replacement.

TROUBLESHOOTING GUIDE

BE SURE TO FOLLOW SAFETY RULES AND INSTRUCTIONS

For assistance with your product, visit our website at **www.dewalt.com** for a list of service centers, or call 833-312-4043.

PLEASE READ THE FOLLOWING: The manufacturer and/or distributor is providing the buyer with a parts list and assembly diagram in this manual as a reference tool only. Neither the manufacturer nor distributor make any representation or warranty of any kind to the buyer regarding the accuracy of the list or diagram or that buyer is qualified and able to make any repairs or replace any parts of the product. The manufacturer and/or distributor expressly recommend: that all repairs and/or part replacements only be undertaken by a certified and licensed technician, and not by the buyer. The buyer assumes all risk and liability, including injuries to persons and damage to property, associated with and arising out of any attempt of the buyer at repairs or replacement of parts to the product.

PROBLEM	CAUSE	CORRECTION
Motor will not run.	1. Defective or broken ON/OFF switch/ switch cord/ switch relay. 2. Burned out motor. 3. Blown fuse or tripped circuit breaker.	1. Contact an authorized Service Center for replacement. 2. Contact an authorized Service Center for replacement. 3. Ensure fuse or circuit breaker is properly rated. Turn off any other unneeded items that are on the same circuit. ⚠ ***WARNING:*** *Do not change fuse or circuit breaker without consulting a Licensed Electrician.*
Machine slows down while sanding.	1. Operator applying too much pressure to workpiece. 2. Dirt on wheels. 3. Worn or stretched belt.	1. Use less pressure in applying workpiece to sanding surface. 2. Clean wheels. 3. Replace pulley belt.
Motor does not develop full speed.	1. Power line overloaded with lights, other tools, etc.. 2. Long/wrong extension cord being used. 3. Incorrect fuses or circuit breakers in power cord.	1. Reduce the load on power line. 2. Replace with correct extension cord (see page 7). 3. Ensure fuse or circuit breaker is properly rated. Turn off any other unneeded items that are on the same circuit. ⚠ ***WARNING:*** *Do not change fuse or circuit breaker without consulting a Licensed Electrician.*
Sanding belt runs off pulleys.	1. Not tracking properly.	1. Adjust the tracking. See "To Properly Track The Sanding Belt" page 12.
Wood burns while sanding.	1. Sanding disc or belt glazed with sap. 2. Excessive pressure being applied to workpiece.	1. Replace belt or disc. 2. Reduce pressure applied to workpiece.
Motor overheats.	1. Motor overload.	1. Reduce motor load. Allow to cool off before restarting.
Dust collection not working.	1. Dust exhaust is blocked.	1. Turn sander off and unplug. Use a vacuum to remove sander dust blockage.

Register Online

Thank you for your purchase. Register your product now for:

- **WARRANTY SERVICE:** Registering your product will help you obtain more efficient warranty service in case there is a problem with your product.
- **CONFIRMATION OF OWNERSHIP:** In case of an insurance loss, such as fire, flood or theft, your registration of ownership will serve as your proof of purchase.
- **FOR YOUR SAFETY:** Registering your product will allow us to contact you in the unlikely event a safety notification is required under the Federal Consumer Safety Act.

Register online at **www.dewalt.com/register**

Three Year Limited Warranty

The manufacturer will repair or replace, without charge, any defects due to faulty materials or workmanship for one year from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit **www.dewalt.com** or call **833-312-4043**. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ALL OTHERS, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your DeWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund – no questions asked.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, see country specific warranty information contained either in the packaging, call the local company or see website for warranty information.

PARTS LIST

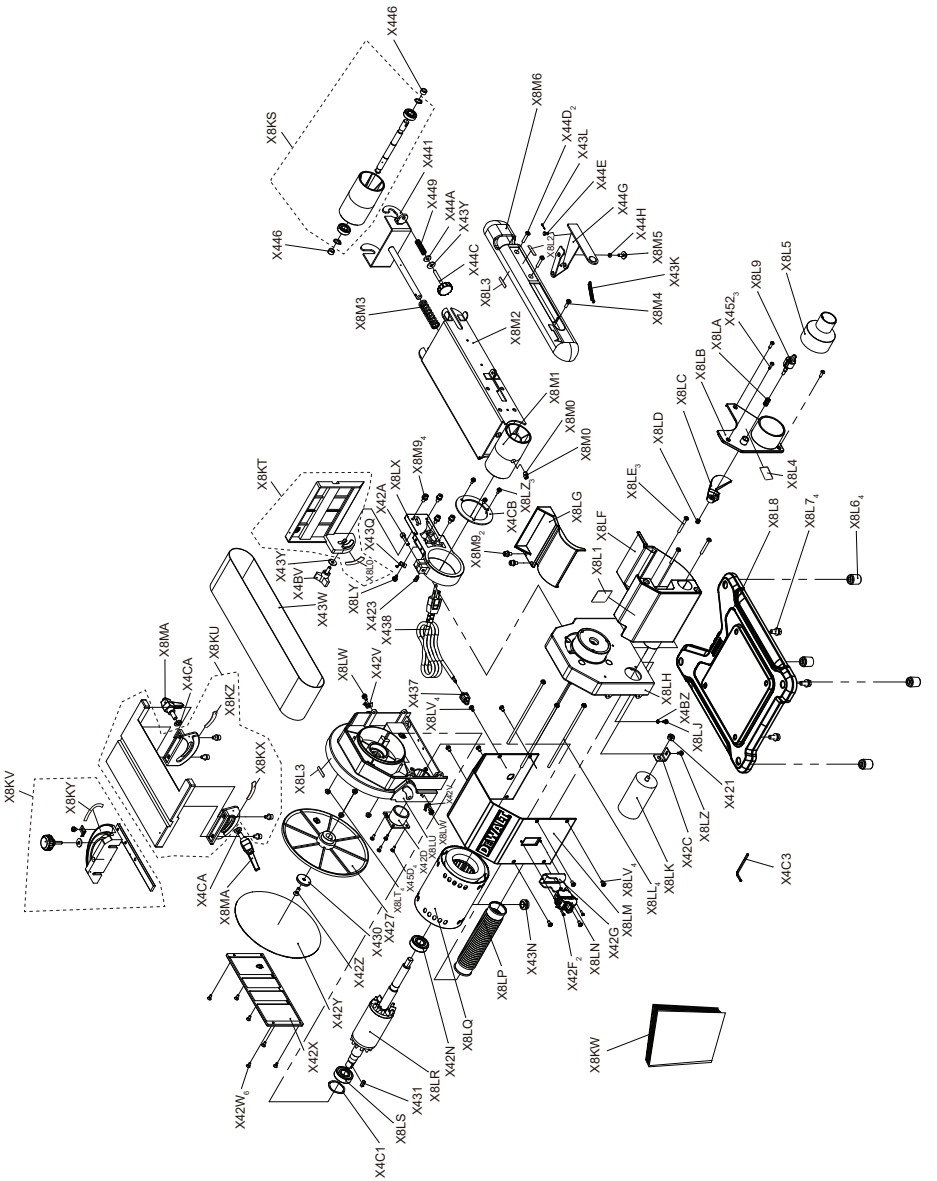
4x8" (100x 200 mm) Belt/Disc Sander
Parts list for belt/disc sander - A

I.D. No.	Description	Size	Q'ty	I.D. No.	Description	Size	Q'ty
X421	I TYPE HEX. NUT	M8	1	X43Y	BIG WASHER	D6	2
X423	POSITION SHAFT		1	X441	BELT TENSION ASS'Y		1
X427	DISC PLATE		1	X446	SLEEVE		2
X42A	INNER HEX. SCREW	M6*25	1	X449	ADJUST SPRING		1
X42C	CAPACITOR SUPPORT		1	X44A	RUBBER WASHER		1
X42D	TUBE CONNECTOR		1	X44C	BELT TRACKING KNOB		1
X42F	PHILIPS SCREW	M3*10	2	X44D	PHILIPS SCREW	M5*25	2
X42G	SWITCH COVER		1	X44E	PIN		1
X42N	BEARING		1	X44G	TENSION HANDLE		1
X42V	ANGLE POINTER		2	X44H	SLEEVE		1
X42W	PHILIPS SCREW	M4*10	6	X452	PHILIPS SCREW	ST4.2*16	3
X42X	DISC COVER		1	X45D	PHILIPS SCREW	M4*10	4
X42Y	DISC PAPER		1	X4BV	DISC WORK TABLE KNOB		1
X42Z	PHILIPS SCREW		1	X4BZ	EXTERNAL TEETH LOCK WASHER	D4	1
X430	WASHER		1	X4C1	SPRING WASHER		1
X431	KEY		1	X4C3	INNER HEX. WRENCH	5 MM	1
X437	STRAIN RELIEF		1	X4CA	FLAT WASHER		2
X438	POWER CORD		1	X4CB	POSITIONING PLATE		1
X43K	SPRING WASHER		1	X8KS	IDLER PULLEY ASS'Y		1
X43L	PIN		1	X8KT	BELT WORKING TABLE ASS'Y		1
X43N	CORD BUSHING		1	X8KU	DISC SUPPORT ASS'Y		1
X43Q	WORK TABLE ANGLE POINTER		1	X8KV	MITER GAUGE ASS'Y		1
X43W	SANDING BELT		1	X8KW	INSTRUCTION MANUAL		1

4x8" (100x 200 mm) Belt/Disc Sander
Parts list for belt/disc sander - B

I.D. No.	Description	Size	Q'ty	I.D. No.	Description	Size	Q'ty
X8KX	SCALE LABEL (RIGHT)		1	X8LL	PHILIPS SCREW & FLAT WASHER ASS'Y	M5*188	4
X8KY	MITER GAUGE ANGLE LABEL		1	X8LM	MOTOR COVER		1
X8KZ	SCALE LABEL (LEFT)		1	X8LN	SWITCH		1
X8L0	SCALE LABEL		1	X8LP	CONNECT TUBE		1
X8L1	TRADEMARK LABEL		1	X8LQ	STATOR		1
X8L2	BELT TENSION LABEL		1	X8LR	ROTOR		1
X8L3	ROTATION LABEL		2	X8LS	BEARING		1
X8L4	ROTATION LABEL		1	X8LT	HEX. NUT	M5	4
X8L5	DUST EXHAUST JOINT		1	X8LU	DISC COVER END CAP		1
X8L6	RUBBER FOOT		4	X8LV	PHILIPS SCREW	M5*8	8
X8L7	CROSS HD. SCREW WITH SPRING WASHER AND FLAT WASHER	M8*18	4	X8LW	CROSS HD. WITH SPRING WASHER AND FLAT WASHER	M5*10	2
X8L8	BASE		1	X8LX	BELT FRAME CONNECT		1
X8L9	DUST EXHAUST KNOB		1	X8LY	PHILIPS SCREW & FLAT WASHER ASS'Y	M4*8	1
X8LA	SPRING		1	X8LZ	CROSS HD. WITH SPRING WASHER AND FLAT WASHER	M4*10	4
X8LB	DUST BOX COVER		1	X8M0	HEX. SCREW	M8*8	2
X8LC	DUST PORT BAFFLE		1	X8M1	DRIVE PULLEY		1
X8LD	TYPE I NONMETAL LOCKING NUT	M5	1	X8M2	BELT FRAME		1
X8LE	PHILIPS SCREW	M5*40	3	X8M3	TENSION SPRINIG		1
X8LF	DUST STORAGE BOX		1	X8M4	PHILIPS SCREW	M5*16	1
X8LG	BELT PREVENTER PLATE		1	X8M5	CROSS HD. WITH EXTERNAL TEETH LOCK WASHER AND BIG FLAT WASHER	M5*16	1
X8LH	END CAP		1	X8M6	BELT COVER		1
X8LJ	CROSS HD. SCREW WITH SPRING WASHER AND FLAT WASHER	M4*7	1	X8M9	HEX. SCREW WITH SPRING WASHER AND FLAT WASHER	M6*12	6
X8LK	CAPACITOR		1	X8MA	LOCKING HANDLE ASS'Y	M8*20	2

4x8" (100x 200 mm) Belt/Disc Sander
Schematic for belt/disc sander



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Product Manufactured by:

Power Tool Specialists, Inc.

684 Huey Road, Rock Hill, SC 29730