

Transporting the Planer (Fig. A)

WARNING: For your own safety, it is recommended that two people carry this machine or serious injury could result.

When moving your planer, carry it either by the side carrying handles ❸ or by the handles ❹ at the base of the planer.

Bench Mounting (Fig. A)

To facilitate bench mounting, two different sized holes ❷ are provided on the four corners of your planer. If mounting the planer with bolts, use the larger holes. If mounting the planer with nails or screws, use the smaller holes. It is not necessary to use both sets of holes.

Always mount your planer firmly to prevent movement. To enhance the tool's portability, it can be mounted to a piece of 1/2" (12.7 mm) or thicker plywood which can then be clamped to your work support or moved to other job sites and reclaimed.

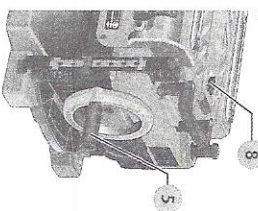
NOTE: If you elect to mount your planer onto a piece of plywood, make sure that the mounting screws don't protrude from the bottom of the wood. The plywood must sit flush on the work support.

CAUTION: The mounting surface should not be warped or otherwise uneven.

To Attach the Depth Adjustment Crank Handle (Fig. E)

1. Remove the screw located in the crank handle shaft.
2. Insert the crank handle ❸ over the shaft.
3. Secure in place with the screw and T-wrench ❹ provided.

Fig. E

**Dust Ejection Ports (Fig. F)**

Your planer comes with a dust ejection port. The round port ❶ as shown in Figure F is for use with a 4" (100 mm) dust collector hose.

To Set Up Dust Ejection (Fig. F)

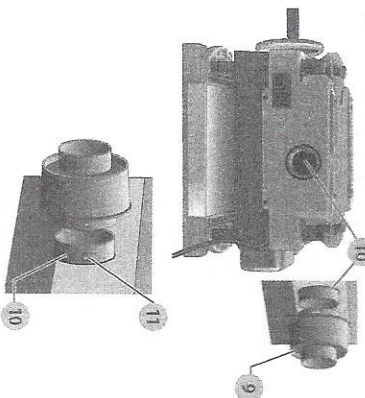
WARNING: Do not operate your planer without the dust ejection port locked into place. Do not insert anything into the dust ejection chute unless the planer is unplugged and you are clearing a clog or obstruction in the unit. Do not get your face or eyes near the dust ejection port

when the planer is in operation. Serious injury could result.

WARNING: Chips are ejected at significant velocity. Keep hands and face clear of dust ejection port.

1. Select the port ❶.
2. Depress the lock button ❷ on the chip ejection chute ❸.

Fig. F



3. Slide the notches in the dust port over the pins on the chip ejection chute.
4. Rotate the port until the button engages the dust ejection chute and locks in place.

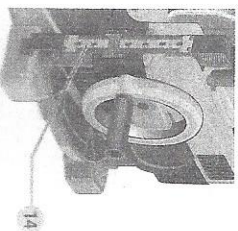
To Remove the Dust Ejection Port (Fig. F)

1. Use the T-wrench to depress the lock button ❷ on the dust chute.
2. Twist the port until the pins are disengaged from the notches on the port.
3. Pull the dust ejection port off of the dust chute.

Depth Adjustment (Fig. G)**Depth Adjustment Scale (Fig. G)**

The depth adjustment scale ❶, located on the right front of your planer, indicates the finished thickness of your workpiece. One rotation of the depth adjustment crank is equal to 1/16" (1.6 mm), half rotation is equal to 1/32" (0.8 mm), etc.

Fig. G

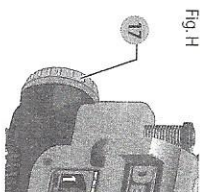
**Depth Adjustment Crank**

Turning the crank clockwise lowers the cutterhead. Turning the crank counterclockwise raises the cutterhead.

Turret Stop (Fig. H)

Your planer is equipped with a turret stop ❶ for planing multiple boards to the same pre-set depth. Stops are set at 1/8" (3 mm), 1/4" (6.5 mm), 1/2" (12.7 mm), 3/4" (19 mm), 1" (25.5 mm), and 1-1/4" (32 mm).

Fig. H

**To Set the Minimum Depth to Which the Carriage can Travel with the Turret Stop**

1. Be sure the carriage is set above 1-1/4" (32 mm) before trying to set the turret stop.
2. Turn the dial on the front left of the planer until the desired thickness setting aligns with the red indicator, then lower the carriage.
3. Plane the workpiece at desired increments until the correct final thickness is achieved.

NOTE: Do not use force to crank the carriage below the level that the turret stop indicates. Permanent damage to the height adjustment system on your planer will result.

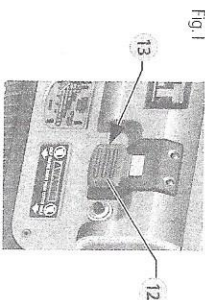
OPERATION

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

On/Off Switch (Fig. I)

To turn the planer on, lift the switch ❶ up. The planer locks on automatically. To turn the tool off, press the switch down. A hole ❷ is provided under the switch for insertion of a padlock to lock off the planer.

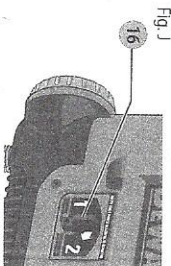
Fig. I

**Speed Selection (Fig. J)**

NOTE: Only switch speeds when the planer is running.

Your planer has the ability to feed material at two different speeds. The two-speed feature ❶ was designed to improve efficiency when planing and to provide the best possible surface finish to a variety of materials.

Fig. J



To remove material thickness more quickly, set the unit at speed "2". This setting delivers 96 cuts per inch to the material.

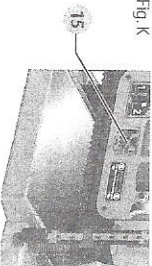
For finishing, set the unit to speed "1". Speed "1" is ideal for ensuring the finest finish on the last pass before your final thickness is achieved.

NOTE: When planing particularly hard or figured species of wood, speed "1" is recommended. The slower feed rate will reduce knife wear and tear-out by delivering 179 cuts per inch to the material.

Material Removal Gauge (Fig. K)

Your planer is equipped with a material removal gauge ❶. It is used to indicate the amount of wood that will be removed in one pass with the carriage set at its current height.

Fig. K

**To Use the Material Removal Gauge**

1. Slide approximately 3" (75 mm) of your material under the middle of the carriage.
2. Be sure the wood is lying flat against the base of the planer. If the material is inserted at an angle, the reading may be inaccurate.
3. Crank the carriage down on the material until the material removal bar engages the wood. You will see the red arrow begin to move up the scale indicating the amount of material to be removed with the carriage at that height.
4. Adjust the carriage height until the desired depth of cut appears on the gauge.
5. Pull the material out from under the carriage.
6. Turn the unit on and feed your material into the cutterhead.

NOTE: Do not exceed the recommended depth of cut for various widths of material recommended on the material removal gauge.

WARNING: DO NOT switch the unit on with the material positioned under the carriage. Serious injury could result.

Planing Basics

Proper Planing Technique

WARNING: DO NOT turn the unit on with the material already inserted under the carriage. Wait until the rollers and cutterhead are up to full speed before feeding your material into the machine.

1. Lower the carriage to the desired height for your first pass.
2. Turn the unit on and feed the material into the feed rollers.
3. Examine the finished cut and adjust the carriage to the appropriate height for your next pass.

NOTE: Flip the board back and forth between each pass. See the **Troubleshooting Guide**, for additional information. For best results, plane both sides of the workpiece to reach a desired thickness. For example, if you need to remove 1/8" (3 mm) from your workpiece, remove 1/16" (1.6 mm) from each side. This not only allows the workpiece to dry with an even moisture content, it also produces finer cuts.

WARNING: Plane only wood that is free from foreign objects, with no loose knots and as few tight knots as possible. Do not plane wood that is severely warped, twisted, knotted or bowed.

WARNING: Do not place your body between the rear of the planer and a stationary object while material is feeding. Serious injury could result.

Minimum/Maximum Width/Height/Depth

NOTE: Always plane in the direction of the grain. Support the workpiece adequately at all times. Planing material less than 3/4" (19 mm) wide is not recommended. If you must plane narrow material, group several pieces together and plane them as one wide workpiece whenever possible.

The maximum depth of cut your planer can take in one pass is 1/8" (3 mm) for material less than 6" (152 mm) wide. Never attempt to modify your planer to take a deeper cut. Follow the recommended depth/width of cut guidelines shown in Table A for best results.

TABLE A

MATERIAL REMOVAL GAUGE	DEPTH OF CUT
1/8"	0
3/32"	0
1/16"	0
1/32"	0
3"	0
6"	0
9"	0
15"	0
WIDTH	

Snipe

Snipe is a depression made when an unsupported end of your material drops toward the floor, causing the opposite end to lift up into the cutterhead.

To Avoid Snipe

Feed the workpiece into the planer so it is level and remains flat against the base at all times. Keep the workpiece level throughout planing operation by receiving or "catching" it from the rear of the planer. If you are planing material that is especially long, the use of additional material support is recommended.

Twisted, Cupped and Bowed Wood (Fig. L)

If both sides of your material are very rough or if the material is cupped, bowed or twisted, your planer may not produce the desired result. Ideally, you should have at least one level face/surface on your material before you plane. Your thickness planer will work best with material that has been run through a jointer to produce one flat surface. If you do not have at least one flat surface or a jointer, see the following recommendations.

Fig. L



To Plane Twisted Wood (Fig. M)

WARNING: Twisted wood may jam your thickness planer. If a jam occurs, turn the power off, disconnect the power supply and raise the carriage to release the material from the cutterhead.

If your material is only slightly twisted, Plane both sides alternating from one to the other until the desired thickness is reached.

Fig. M



To Plane Cupped Wood (Fig. N)

To obtain the best possible results with cupped wood: Rip the material down the middle and plane it as two separate pieces.

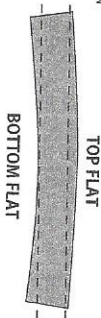
Ripping the material reduces the severity of the cup and allows the machine to deliver better results. Understand that you will have to remove more material on cupped wood to achieve the desired thickness than you would on a normal board.

If Ripping the Material is Not an Option

Plane one side of the material until flat, then plane the opposite side until it is also flat.

NOTE: Do not flip the board back and forth between each pass if wood is cupped.

Fig. N



To Plane Bowed Wood (Fig. O)

The feed rollers and cutterhead in your planer will push the bow out of the material as it feeds. However, when the material exits the planer, the pressure of the rollers and cutterhead will release allowing the wood to spring back into a bowed formation. To properly remove the bow, use a jointer.

Fig. O

BOWED WOOD WILL BE FLATTENED BY FEED ROLLERS AND CUTTERHEAD...



...BUT BOW WILL RETURN AFTER WOOD IS PLANED



MAINTENANCE

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

Periodic Maintenance

1. Routinely check the tool for damage or broken parts.
2. Clean the top cover, dust shroud and all accessible areas of the unit of dust and wood debris that have collected in from planing.
3. Wipe off infeed and outfeed rollers.
4. Clean base table. Light waxing will help wood material pass through the planer.
5. Evaluate blade sharpness condition. Replace as necessary.
6. Gauge Calibration, check thickness gauge calibration and turret stop calibration.
7. Check brushes for wear and replace as necessary.

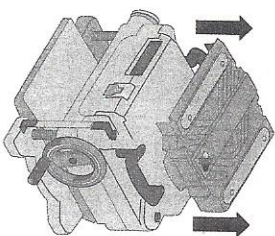
Changing or Rotating the Planer Knives

WARNING: To reduce the risk of serious personal injury, disconnect the planer from the power source before attempting to change or access the knives. An accidental start-up can cause injury.

To Change Planer Knives (Fig. P-U)

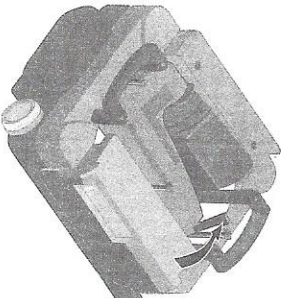
1. Use the T-wrench to remove the four screws in the top of the planer.

2. Lift the top off (Fig. P) and place it aside. Fig. P



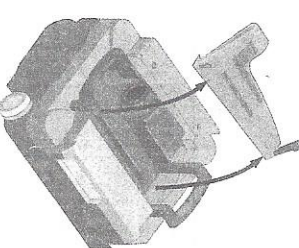
3. Remove the three wing nuts that seal the dust shroud over the cutterhead.
4. Rotate the dust shroud up so the round connection that locks onto the fan housing is in the open position (Fig. Q).

Fig. Q



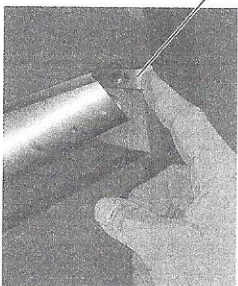
5. Push the dust shroud to the left so it disengages from the fan housing.
6. Take the dust shroud out of the unit (Fig. R) and set it aside.

Fig. R



7. The cutterhead is now exposed. If the eight screws in the cutterhead clamp are not visible, use a piece of scrap wood to carefully rotate the cutterhead (Fig. S) until the screws are accessible and the cutterhead lock lever engages. This will prevent further rotation of the cutterhead as you change the knives.

Fig. 5



WARNING: Keep your fingers away from the cutterhead at all times. Use the tool provided to handle the knives.

8. Use the T-wrench to remove the eight screws on the knife clamp and set them in the small screws bin (19) on the front panel of the planer (Fig. 1).

Fig. 1

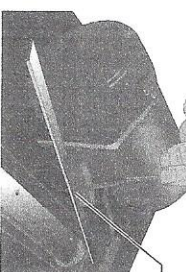


9. Use the magnets on the top of the T-wrench to attract the knife clamp and lift it off of the cutterhead. One of the knives should now be exposed.

10. Use the magnet (20) on the top of the T-wrench (Fig. 5) to attract the knife. Avoid touching it with your fingers.

NOTE: Before installing the knife, ensure the cutterhead and knife are free of debris, clean if needed.

Fig. U



If Only One Side of the Knife is Worn

1. Rotate the knife around so that the sharp, unused edge hangs over the end of the cutterhead where it will cut the material. Be sure to set the oblong holes in the knife over the pins machined on the cutterhead.
2. Reset the knife clamp over the knife. Be sure to align the beveled edge on the clamp with the sharp, cutting edge of the knife. If these are not aligned correctly, the clamp will not secure the knife properly.
3. Install the screws into the clamp and tighten sufficiently.

NOTE: Make sure all screws are tightened sufficiently.

To Access the Other Two Knives

1. Depress the cutterhead lock lever (18) as shown in Figure 5.
2. Use the piece of scrap wood to carefully turn the cutterhead until it locks into place revealing another knife clamp.
3. Follow the same knife change procedure indicated above.
4. Repeat the procedure for the last dull knife.

After Installing New Knives

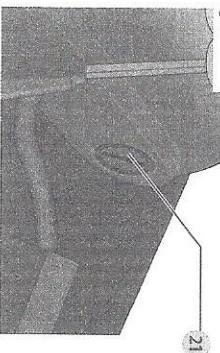
1. Insert the round end of the dust shroud into the fan housing and rotate it down to lock it into place.
2. Place the three wing nuts back into the shroud.
3. Screw the top cover of the planer back onto the unit.

NOTE: The planer will not operate if the top cover is not placed correctly.

Brush Change (Fig. V, W)

Your planer is equipped with brush caps (21) that are external to the motor. If your brushes need to be replaced, begin by acquiring a new set from a DEWALT service center or a dealer authorized to service DEWALT products. Use only identical DEWALT brushes.

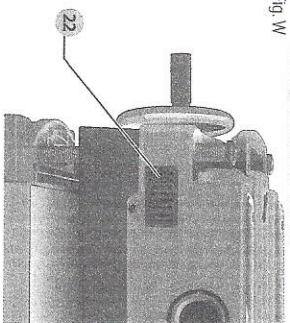
Fig. V



To Replace the Brushes on your Planer (Fig. V, W)

1. Use the T-wrench to remove the top cover and brush cover screen on the planer.
2. Use a flathead screwdriver to unscrew the brush cap located in the right, rear of the unit (22).

Fig. W



3. Do the same for the brush cap located on the side of the motor, inside the planer cover.
4. Place the new brushes into the brush holders.

5. After installing the brushes, replace the top cover and brush cover screen.
6. Before using the planer, run the unit for 10 minutes to seat new brushes.

NOTE: If existing brushes do not need replacing, be sure to maintain the same orientation when you reinstall them.

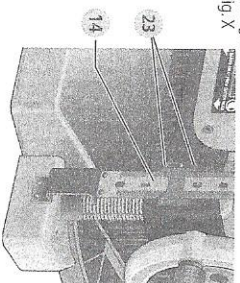
Calibrating the Depth Adjustment Scale (Fig. X)

The depth adjustment scale (23) on your planer is set at the factory. However, with extended use, the depth adjustment scale could show an incorrect measurement.

To check the depth adjustment scale, plane a piece of scrap wood, noting the measurement on the depth adjustment scale.

Measure the finished thickness of the workpiece. If the thickness of the workpiece does not match the reading on the depth adjustment scale, loosen the two screws (24) on the red indicator. Adjust the pointer up or down until its reading matches the finished thickness of the workpiece. Securely re-tighten the screws.

Fig. X



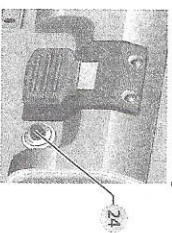
Base Maintenance

Keep the table clean and free from oil, grease, and pitch. Treat the table with paste wax to help maintain its smooth finish.

Circuit Breaker Reset Button (Fig. Y)

Your planer is equipped with an 18 amp circuit breaker. If your planer becomes overloaded and stops operating, turn off the planer, let the unit sit for 2 minutes and press the reset button (24) before you resume working.

Fig. Y



WARNING: To prevent the planer from starting unexpectedly if power is interrupted by a circuit breaker trip, make sure the switch is in the OFF position before restoring power.

NOTE: Circuit breaker overload is often the result of dull knives. Change your knives on a regular basis to avoid

tripping your breaker. Check your knives before re-setting the circuit breaker and continuing to plane. See the **Troubleshooting Guide** for additional information on circuit breaker trips.

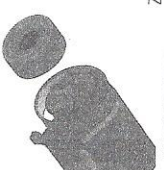
Replacing the Drive Belt

Drive belts are available at extra cost at DEWALT authorized service centers. Replacement of the drive belt should be performed by qualified service personnel.

Chip Ejection Fan (Fig. P-R, Z)

The chip ejection fan on your planer should be cleaned or cleared of debris periodically.

Fig. Z



WARNING: Turn off and unplug the planer prior to accessing the chip ejection fan.

To Access the Fan

1. Remove the top cover of the planer with the T-wrench.
2. Remove the dust shroud (Fig. P-R) and place it aside.
3. Remove the screws and clips around the fan housing.
4. Remove the fan housing and place it aside as shown.

The fan will now be exposed for cleaning.

See the **Troubleshooting Guide** for additional information.

WARNING: Be sure to properly attach the fan housing and assemble the shroud and top cover correctly before using your planer again.

Cleaning

WARNING: Blow dirt and dust out of all air vents with clean, dry air at least once a week. To minimize the risk of eye injury, always wear ANSI Z87.1 approved eye protection 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 plastic 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.

It is recommended that, once a year, you take or send the tool to a DEWALT certified service center for a thorough cleaning, inspection and lubrication of the gear case.

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.

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Recommended accessories for use with your tool are available at extra cost from your local dealer or authorized service center. If you need assistance in locating any accessory, please contact DEWALT Industrial Tool Co., 701 East Joppa Road, Towson, MD 21286, call 1-800-4-DEWALT (1-800-433-9258) or visit our website: www.dewalt.com.

Four accessories are available for the DW735 Thickness Planer.

- DW7350 Mobile Stand
- DW7351 Folding Tables
- DW7352 13" (325 mm) Knives
- DW7353 Chip Ejection Accessory

NOTE: Helical cutterheads have not been tested with this product and are not recommended for use.

DW7351 Accessory Folding Tables (Fig. AA)

WARNING: For your own safety, read the tool instruction manual before attaching the tables.

Failure to heed these warnings may result in personal injury and serious damage to the planer and the accessory. When servicing this tool, use only identical replacement parts. Have damaged cords replaced by an authorized service center.

Your DW7351 folding table box should include:

2. folding tables 4 nuts
4. cap screws 4 stepped bolts
4. springs

Fig. AA



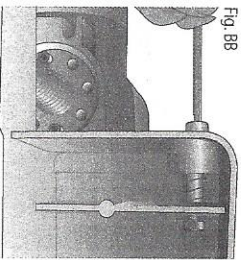
Set-up and Installation of Base Hardware (Fig. BB-DD)

1. Place planer on a secure table or workbench. Position planer so the front 3-4" (75-100 mm) of the base can be accessed from the underside.
2. Secure the rear of the planer to the table/bench with nails or screws to prevent it from tilting or falling from the table.

WARNING: The planer could tilt or fall from the table if it is not properly secured opposite the end where the folding table is being installed. Serious injury may result.

3. Place the spring onto the small end of the stepped bolt.
4. Insert the end of the bolt with the spring around it into the larger hole on the side of the base.
5. Push the stepped bolt all the way through the hole in the first rib on the underside of the planer. The spring should engage the rib slightly and the threads should show on the right side of the rib.
6. On the underside of the planer, use a wrench to hold the nut in place while turning the stepped bolt into it. The 5/32" (4 mm) hex wrench can be used to turn the stepped bolt until it is fully secured (Fig. BB).

Fig. BB



7. Install the snailer screw into the lower threaded hole on the side of the base. Use the 5/32" (4mm) hex wrench to tighten that fastener securely (Fig. CC).

8. Depress the top pin until it is flush with the base and slide the top hole of the table over the pin and release the pin so they lock together (Fig. CC, DD).

Fig. CC



Fig. DD



9. To attach the table to the rear of the planer, install the bolts and spring following the above procedure.

Your tables should now fold up and down on the top screw and rest on the bottom screw while in position for planing. **NOTE:** To transport the planer with the tables, fold them up and carry the unit as recommended by the planer manual.

WARNING: For your own safety, it is recommended that two people carry this machine or serious injury could result.

To Remove the Tables

1. Depress the spring-loaded bolts on the base and slide each end of the table toward you so they disengage the holes in the tables. You may want to use the T-wrench from your planer to push the bolts flush with the base to easily remove the tables.
2. Leave the hardware (stepped bolts and small cap screw) in the base until you need to re-attach the tables.

Repairs

WARNING: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement, when applicable) should be performed by a DEWALT factory service center or a DEWALT authorized service center. Always use identical replacement parts.

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

DEWALT will repair, without charge, any defects due to faulty materials or workmanship for three years 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 1-800-4-DEWALT (1-800-433-9258). 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. In addition to the warranty, DEWALT tools are covered by our:

1 YEAR FREE SERVICE

DEWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.

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 in

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the packaging, call the local company or see website for warranty information.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call 1-800-4-DEWALT (1-800-433-9258) for a free replacement.