INSTRUCTION MANUAL

Dewalt Industrial Tool Co., 701 Joppa Road, Baltimore, MD 21294 (AUGUST 2002)

DOUBLE INSULATION

The Double Insulation system is for added protection against injury resulting from a possible insulation or one double thickness of insulation between you and the tool’s electrical system.

NOTE: Use only accessories that are recommended by the manufacturer or that are compatible with this tool.

DOUBLE INSULATION

The definitions below should be carefully considered for each signal word. Please read the manual and pay attention to these symbols.

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

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

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

INSTRUCTION MANUAL

1-800-4-DEWALT • www.dewalt.com

Safety Definitions

The following definitions are used throughout this manual. They are intended to help both the user and the tool manufacturer to communicate specific warnings. Some definitions are also used in the USA Voluntary Product Safety Standards (16CFR 1110) as well as the National Electrical Code as issued by the National Fire Protection Association (NFPA 70).

Definitions: Safety Guidelines

• The miter saw.

• Does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician.

• This tool. The insulation system is for added protection against injury resulting from a possible insulation or one double thickness of insulation between you and the tool’s electrical system.

NOTE: Use only accessories that are recommended by the manufacturer or that are compatible with this tool.

Double Insulation

Double insulated tools are constructed throughout with two separate layers of electrical insulation or one double thickness of insulation between you and the tool’s electrical system. Tools built with this insulation system are not intended to be grounded. As a result, your tool is equipped with a two-wire, non-grounding cord containing a cord handle with integral insulated screw type plug. These tools do not require a separate electrical ground such as a ground wire. The Double Insulation system is designed to withstand a 1050 volt test for one minute. This tool is double insulated. This tool is marked with the symbols: □□□□ and □□□□. The tool may be used on circuits marked 120V, 120/240V, or 120/208V. This tool has a grounded outlet with a 3-prong plug. The ground prong provides a safe return circuit for the electrical current. This tool may be unplugged and plugged in with the tool on.

In addition, the miter saw is marked with the symbols: □□□□.

See your owner’s manual for the serial number and voltage rating of your miter saw.

In the event of testing or inspection failure, return this tool to the nearest authorized service center. The tool should then be replaced.

In the event of replacement, make certain the replacement tool is identical to the original tool. Do not use a replacement tool with a different rating or characteristics.

WARNING: Always wear protective eyewear when using portable power tools may result in injury.

Additional Safety Rules For Miter Saws

• Do not operate the tool near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools may spark and ignite fumes.

• Always use a sharp blade. The blade must turn true and is free from any nicks or defects. A nicked blade will cause the miter saw to vibrate and may cause the blade to kick. Always use the correct size blade for working with wood. For best results, use a blade with a 10- to 12- tooth per inch (25- to 30-mm) pitch. If the blade is not sharp or is nicked, it may cause the blade to kick and/or cause personal injury.

• Do not operate the machine when you are tired or under the influence of drugs, alcohol, or medication.

• Never cut ferrous metals.
**WARNING:** Do not connect unit to electrical power source until complete instructions are read and understood.

**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.

**WARNING:** NEVER MAKE ANY CUTS UNTIL THE MATERIAL IS SECURED ON THE TABLE AND AGAINST THE FENCE.

**WARNING:** Some dust created by power sanding, sawing, grinding, driling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. 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 (CCL)
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 with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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 disburse 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. For your convenience and safety, the following warning labels are on your miter saw.

**Electrical Connection**

As your power supply agrees with the nameplate marking, 120 volts, AC means that your saw will operate on alternating current. The switch is susceptible to failure if direct current is used. A voltage decrease of 10 percent or more will cause a loss of power and overheating. All DWALT tools are factory tested. If this tool does not operate, check the power supply.

**Accessories**

Since accessories, other than those offered by DWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DWALT recommended accessories should be used with this product. Recommended accessories for use with your tool are available for purchase from your local retailer. Instructions for installation are included with the accessory. Read and follow all directions for safe installation and use.

**Extension, Work Support: DW7080**

- Used to support long overhanging workpieces, the work support is user assembled. Your model number may vary.
- Requires the use of one work support (see drawing). It is used to make repetitive cuts of the same length from 0 to 42” (107 cm).
- Clamp: DW7082 (similar model included)
- Used for firmly clamping workpiece to the saw table for precision cutting.
- Dust Bag: DW7085 (Included with some models)
- Equipped with a zipper for easy emptying, the dust bag will capture the majority of the sawdust produced (not shown).
- Clamps and stops, clamps, etc., may be more appropriate. Use care in selecting and using accessories.

**Laser Guide System: DW7187**

- Laser is available at extra cost from DWALT Service Centers and your home improvement retailer. Instructions for installation are included with the accessory. Read and follow all directions for safe installation and use.

**Crown Molding Fence: DW7084**

- Used for precision cutting of crown molding.

**Unpacking Your Saw**

Check the contents of your miter saw carton to make sure that you have received all parts. In addition to this instruction manual, the carton should contain:
- 1. One DW718 miter saw.
- 2. One DWALT 12” (305 mm) diameter saw blade.
- 3. One blade wrench in wrench pocket shown in Figure 9.
- 4. One DW7053 Dustbag (some models).
- 5. One material clamp.

**Specifications**

- **CROWN MOLDING FENCE**
  - Maximum Height: 3.7” (94 mm)
  - Maximum Width: 13.6” (345 mm)
  - Result Height: 2.9” (74 mm)

- **BASE**
  - Maximum Height: 3.7” (94 mm)
  - Maximum Width: 9.5” (241 mm)
  - Result Height: 2.9” (74 mm)

- **BASE**
  - Maximum Height: 3.7” (94 mm)
  - Maximum Width: 12.9” (328 mm)
  - Result Height: 2.9” (74 mm)

- **CROSSCUT**
  - Maximum Height: 3.7” (94 mm)
  - Maximum Width: 13.6” (345 mm)
  - Result Height: 2.9” (74 mm)

- **CROSSCUT**
  - Maximum Height: 3.7” (94 mm)
  - Maximum Width: 9.5” (241 mm)
  - Result Height: 2.9” (74 mm)

**Construction Saw Blades**

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>DIAMETER</th>
<th>TEETH</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Purpose</td>
<td>12” (305 mm)</td>
<td>40</td>
</tr>
<tr>
<td>Woodworking Saw Blades</td>
<td>12” (305 mm)</td>
<td>80</td>
</tr>
<tr>
<td>Fine crosscuts</td>
<td>12” (305 mm)</td>
<td>60</td>
</tr>
</tbody>
</table>

**NOTES:** For cutting non-ferrous metals, use only saw blades with TCG teeth designed for this purpose.

**Electrical Connection**

As your power supply agrees with the nameplate marking, 120 volts, AC means that your saw will operate on alternating current. The switch is susceptible to failure if direct current is used. A voltage decrease of 10 percent or more will cause a loss of power and overheating. All DWALT tools are factory tested. If this tool does not operate, check the power supply.

Recommended accessories for use with your tool are available for purchase from your local retailer. Instructions for installation are included with the accessory. Read and follow all directions for safe installation and use.

**Extension, Work Support: DW7080**

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- Clamp: DW7082 (similar model included)
- Used for firmly clamping workpiece to the saw table for precision cutting.
- Dust Bag: DW7085 (Included with some models)
- Equipped with a zipper for easy emptying, the dust bag will capture the majority of the sawdust produced (not shown).
- Crown Molding Fence: DW7084
- Used for precision cutting of crown molding.

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- 2. One DWALT 12” (305 mm) diameter saw blade.
- 3. One blade wrench in wrench pocket shown in Figure 9.
- 4. One DW7053 Dustbag (some models).
- 5. One material clamp.

**Specifications**

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To align the blade square to the table, lock the arm in the down position. Place a square against the bevel square to table adjustment (Fig. 8). Loosen the miter lock handle to move the miter arm to the zero position. With the miter lock handle and the screw tightened before activating the saw. Cut a square into the wood to serve as a reference point. Movements of the saw blade should be consistent with this miter saw.

WARNING: To reduce the risk of personal injury, turn off the tool and disconnect it from the power source before attempting to move it, change accessories or make any adjustments accept as written in laser adjustment instructions.

**Mitre Scale Adjustment**

1. **WARNING:** Never depress the spindle lock button while the blade is under power or coasting.
2. **WARNING:** Never cut ferrous metal (containing iron or steel) or masonry or fiber cement product with this miter saw.
3. **WARNING:** Keep the guard bracket in its original position and firmly tighten the guard bracket screw.
4. **WARNING:** The guard bracket must be returned to its original position and the screw tightened before activating the saw.
5. **WARNING:** Failure to do so may allow the guard to contact the spinning blade and result in damage to the saw and severe personal injury.

**Mitre Scale Adjustment**

1. Return the guard bracket to its original position and firmly tighten the guard bracket screw.
2. **WARNING:** The guard bracket must be returned to its original position and the screw tightened before activating the saw.
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Tighten the center nut. The 45° bevel stops require adjustment after the bevel square to table adjustment is complete.

**BEVEL POINTER (FIG. 8)**
If the bevel pointers do not indicate zero, loosen each screw that holds each bevel pointer in place and move them as necessary.

**BEVEL STOP 45° RIGHT AND LEFT ADJUSTMENT (FIG. 8)**
Your saw has two 45° bevel adjustments, one for the right, and one for the left. The procedure is the same for each.

To align the 45° stops, lock the arm in the down position. Place a speed square against the blade and table taking care to have the square not touch a blade tooth. Loosen the bevel lock handle and move the bevel latch to firmly engage it into place at 45°. If the saw blade is not 45° to the table, loosen the nut which holds the 45° bevel latch plate to the table. Rotate the adjustment screw counterclockwise one or two turns so that the blade is less than 45° to the table. Turn the adjustment screw clockwise until the blade is 45° to the table. Tighten the lock nut.

**FENCE ADJUSTMENT (FIG. 9)**

**WARNING:** To reduce the risk of serious personal injury, turn off the tool and disconnect it from the power source before attempting to move it, change accessories or make any adjustments accept as written in laser adjustment instructions.

In order that the saw can bevel to a full 45º left or right, one of the fences can be adjusted to provide clearance. Adjust the fences, loosen a plastic knob and slide the fence outward. Make a dry run with the saw turned off and check for clearance. Adjust the fence so as to be close to the blade as practical to provide maximum workpiece support, without interfering with arm up and down movement. Tighten knob securely. When the fence operations are complete, don’t forget to relocate the fence.

**NOTE:** The guide grooves of the fence can become clogged with sawdust. If you notice that it is becoming clogged, use a stick or some low pressure air to clear the guide groove.

**AUTOMATIC ELECTRIC BRAKE**
Your saw is equipped with an automatic electric blade brake which stops the saw blade within 5 milliseconds of trigger release. This is not adjustable.

On occasion, there may be a delay after trigger release to brake engagement. On rare occasions, the brake may not engage at all and the blade will coast to a stop. If a delay or “slipping” occurs, turn the saw on and off 4 or 5 times. If the condition persists, have the tool serviced by an authorized DEWALT service center.

**GUARD ACTUATION AND VISIBILITY**

**CAUTION:** Pinch Hazard. To reduce the risk of injury, keep thumb underneath the handle when pulling the handle down. The lower guard will move up as the handle which could cause pinching.

The blade guard on your saw has been designed to automatically raise when the arm is brought down and to lower over the blade when the arm is raised. The guard can be raised by hand, when installing or removing saw blades or for inspection of the saw. NEVER RAISE THE BLADE GUARD MANUALLY UNLESS THE SAW IS TURNED OFF.

**NOTE:** Certain special cuts of large material will require that you manually raise the guard. Refer to Cutting Large Material under Special Cuts.

The front section of the guard is lowered for visibility while cutting. Although the louvers dramatically reduce flying debris, they are openings in the guard and safety glasses should be worn at all times when viewing through the louvers.

**KERR PLATE ADJUSTMENT**
To adjust the kerf plate, loosen the screws holding the kerf plate in place. Adjust so that the kerf plate is as close as possible without interfering with the blade’s movement.

**RAIL GUIDE ADJUSTMENT**

**WARNING:** To reduce the risk of serious personal injury, turn off the tool and disconnect it from the power source before attempting to move it, change accessories or make any adjustments accept as written in laser adjustment instructions.

Periodically check the rails for any play or clearance. The right rail can be adjusted with the set screw shown in Figure 4. To reduce clearance, use a 4 mm hex wrench and rotate the set screw clockwise. To increase clearance, use a 4 mm hex wrench and rotate the set screw counterclockwise.

**NOTE:** Certain special cuts of large material will require that you manually raise the guard. Refer to Cutting Large Material under Special Cuts.

The front section of the guard is lowered for visibility while cutting. Although the louvers dramatically reduce flying debris, they are openings in the guard and safety glasses should be worn at all times when viewing through the louvers.

**RAIL GUIDE ADJUSTMENT**

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**BRUSHES**

**WARNING:** To reduce the risk of serious personal injury, turn off the tool and disconnect it from the power source before attempting to move it, change accessories or make any adjustments accept as written in laser adjustment instructions.

Inspect carbon brushes regularly by unplugging tool, removing the motor end cap (FIG. 8). Lift the brush spring and withdraw the brush assembly. Knobs brushes and cleaning slickly in their guides. Always replace a used brush in the same orientation in the holder as it was prior to their removal. The electric brake may be erratic in operation until the brushes are properly seated (worn in). Always replace the brush inspection cap after inspection or servicing the brushes. While “running in” DO NOT TOUCH. TAP, OR OTHERWISE LOCK THE TRIGGER SWITCH ON. HOLD BY HAND ONLY.

**Controls**

Your compound miter saw has several main controls, which will be discussed briefly here. For more information on these controls, see the respective sections earlier in the manual.

**MITER CONTROL (FIG. 7)**
The miter lock handle is designed to have a limited rotation amount. The handle can be reoriented to compensate for normal wear. The bevel lock handle should be reoriented if the bevel blade has been moved and the arm has been slid up and down. A limited rotation amount. The miter lock handle should be reoriented if the bevel blade has been moved and the arm has been slid up and down. A limited rotation amount. The miter lock handle should be reoriented if the bevel blade has been moved and the arm has been slid up and down.

**BEVEL CONTROL (FIG. 7)**
The miter latch override (FIG. 7) is a substitute for guards or for ensuring your own safety by giving the saw your complete attention.

**NOTE:** Certain special cuts of large material will require that you manually raise the guard. Refer to Cutting Large Material under Special Cuts.

The front section of the guard is lowered for visibility while cutting. Although the louvers dramatically reduce flying debris, they are openings in the guard and safety glasses should be worn at all times when viewing through the louvers.

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The front section of the guard is lowered for visibility while cutting. Although the louvers dramatically reduce flying debris, they are openings in the guard and safety glasses should be worn at all times when viewing through the louvers.

**BEVEL CONTROL (FIG. 4, 8)**
The bevel latch lever and bevel lock handle allow you to bevel the saw to 45º left and 45º right. To bevel the saw, lift the miter adjustment/latch handle, push the miter latch button and set the saw the miter angle desired on the miter scale. Push down on the lock handle to lock the saw in place.

**TRIGGER SWITCH**
The trigger switch (FIG. 4) turns your saw on and off. A hole is provided in the trigger for insertion of a padlock to secure the saw.

**MITER LATCH OVERRIDE (FIG. 7)**
The miter latch override allows you to override the common stop angles. To override the common stop angles, push the miter latch button and flip the miter latch override lever to the vertical position.

**BEVEL CONTROL (FIG. 4, 8)**
The bevel latch lever and bevel lock handle allow you to bevel the saw to 45º left and 45º right. Your saw has two bevel latches on each side, one on either side of the rear support housing. Only one need be used to bevel to the other side of the blade's movement. The bevel lock handle is designed to have a limited rotation amount. The handle can be reoriented to compensate for normal wear. The bevel lock handle should be reoriented if the bevel blade has been moved and the arm has been slid up and down. A limited rotation amount. The handle can be reoriented to compensate for normal wear. The bevel lock handle should be reoriented if the bevel blade has been moved and the arm has been slid up and down. A limited rotation amount.

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The front section of the guard is lowered for visibility while cutting. Although the louvers dramatically reduce flying debris, they are openings in the guard and safety glasses should be worn at all times when viewing through the louvers.

**GROOVING STOP (FIG. 9)**
The grooving stop allows for groove cutting. Tilting the lever toward the front of the saw and adjusting the thumbscrews changes the depth of the groove cut. Tilting the lever toward the rear of the saw bypasses the grooving stop.

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**OPERATION**

**WARNING:** To reduce the risk of serious personal injury, turn off the tool and disconnect it from the power source before attempting to move it, change accessories or make any adjustments accept as written in laser adjustment instructions.
Cutting with Your Saw

If the slide feature is not used, ensure the saw head is pushed back as far as possible and the miter arm at zero degree. Position the cut line using a straight edge, ensure the line is parallel to the fence, and make a dry run to check the path of the blade.


do not allow the saw to contact the top of the workpiece while pulling out. The saw may run inexperienced during the cut.

Cutting of multiple pieces is not recommended but can be done safely by ensuring that each piece is held firmly against the table and fence. When the saw comes up to speed (about 1 second) lower the arm smoothly and slowly to cut the workpiece.

A bevel cut is a crosscut made with the saw blade at an angle to the wood. In order to set the bevel angle, first make a dry run (unpowered) before finish cuts to check the path of the blade. ENSURE TO INSTALL CLAMP

When smoothest cuts are desired for molding and other precision work, a sharp (60 tooth carbide) blade may be used. For best results use the DW7082 clamp made for use with your saw. Another type of clamp may be used. Always clamp the workpiece to the base of the saw—not to any other part of the saw or to any other part of another part of the other part of the other part of another part of the other part of another part of the saw.

When making a cut, ensure that all parts of the machine are securely fastened, and free of other hazards. Keep both feet firmly on the floor and maintain proper balance.

The diagram below gives an example of a miter saw setup. The saw is turned on, and the miter arm is set to the desired angle. The bevel arm is then set to the desired angle. The workpiece is then clamped to the saw table, and the cut is made.

The diagram above shows the side view of a miter saw. The saw is turned on, and the miter arm is set to the desired angle. The bevel arm is then set to the desired angle. The workpiece is then clamped to the saw table, and the cut is made.

For best results, use the DW7082 extension work support to extend the table width of your miter saw. This will allow you to work on larger pieces of material without the need for additional support. Saws are made to cut wood and many non-ferrous materials, we will limit our discussion to the cutting of wood only. The same guidelines apply to other materials as well.

To cut a piece of wood, match the angle as close as possible. Do not use any abrasive blades.

CUTTING IN PROGRESS

Although this saw will cut wood and many non-ferrous materials, we will limit our discussion to the cutting of wood only. The same guidelines apply to other materials as well.

When the saw comes up to speed (about 1 second) lower the arm smoothly and slowly to cut the workpiece. Do not allow the saw to contact the top of the workpiece while pulling out. The saw may run inexperienced during the cut.

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2. The angled "flats" on the back of the molding must rest squarely on the fence and base of
the saw.

1. Angle the molding so the bottom of the molding (part which goes against the wall when
against the fence.) Use the crown molding fence accessory to maintain the angle at which the molding will
be on the wall.

INSTRUCTIONS FOR CUTTING CROWN MOLDING ANGLED BETWEEN THE FENCE
AND BASE OF THE SAW FOR ALL ANGLES.

1. Angle the "flats" on the back of the molding must rest squarely on the base and the saw.

INSIDE CORNER: OUTSIDE CORNER:

1. Miter right at 45º
2. Save left end of cut
1. Miter right at 45º
2. Save left end of cut

Saw not mounted securely to stand or work
bench

1. Top of molding against fence.
2. Fuse blown or circuit breaker tripped
3. Cord damaged
4. Brushes worn out

WARNING: The saw is designed to cut very wide [up to 16" (406 mm)] workpieces when a special set up is used. To

2. Cutting bowed material

Manufactured under one or more of the following U.S. patents: 6,823,765, 6,011,914, 5,907,987, 5,375,495
6,101,914, 5,907,987, 5,375,495
3. Miter scale not adjusted correctly
4. Incorrect blade for work being done
5. Change the blade type. Refer to Brushes.
4. Incorrect blade for work being done
5. Change the blade type. Refer to Brushes.
5.285,708

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.

LATEX: 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.

Three Year Limited Warranty

Dewalt will maintain the tool and return 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 D28010 Power Tool, Laser, or Nutser 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.

In case of a problem, refer to the troubleshooting guide. If you still need help, call 1-800-4-DEWALT (1-800-433-9258) for a free replacement.

Three Year Limited Warranty

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6,101,914, 5,907,987, 5,375,495
3.582,734
5.625,098
1,99,343

Other patents may be pending.
TABLE 1: COMPOUND MITER CUT

(POSITION WOOD WITH BROAD FLAT SIDE ON THE TABLE AND THE NARROW EDGE AGAINST THE FENCE)

<table>
<thead>
<tr>
<th>SQUARE BOX</th>
<th>6-SIDED BOX</th>
</tr>
</thead>
<tbody>
<tr>
<td>SET THIS MITER ANGLE ON SAW</td>
<td>8-SIDED BOX</td>
</tr>
<tr>
<td>SET THIS BEVEL ANGLE ON SAW</td>
<td>ANGLE OF SIDE OF BOX (ANGLE A)</td>
</tr>
</tbody>
</table>