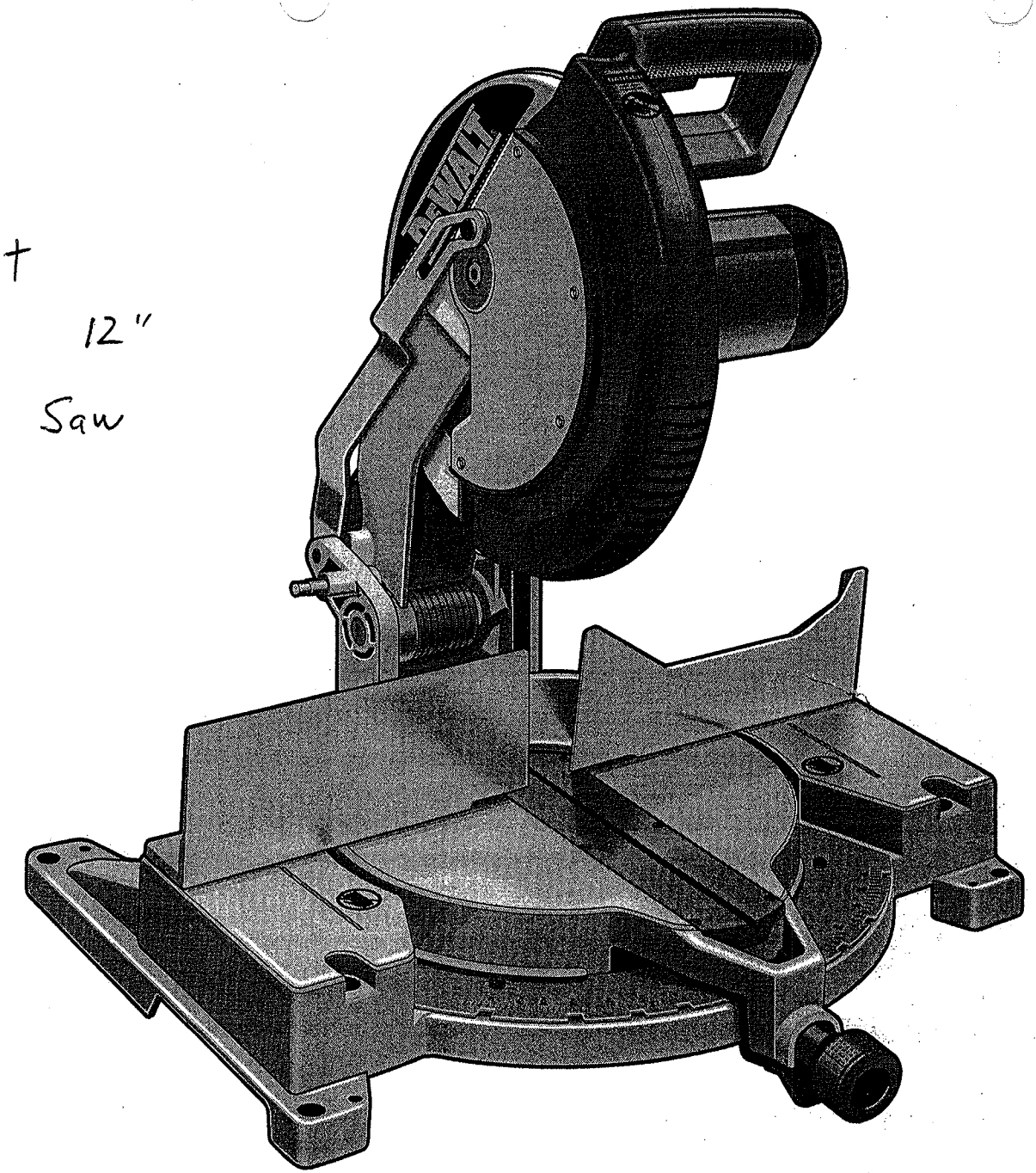
IF YOU HAVE QUESTIONS OR COMMENTS ABOUT THIS, OR ANY ALT TOOL, CALL US TOLL FREE AT (1-800-433-9258).

Serial Number from Nameplate	Date of Purchase
_____	_____

Save this information for future reference.

DeWalt
DW 704 12"
Miter Saw



DEWALT...BUILT JOBSITE TOUGH

DEWALT high performance industrial tools are made for America's toughest industrial and construction applications. The design of every tool in the line – from drills to sanders to grinders – is the result of rigorous use on jobsites and throughout industry. Each tool is produced with painstaking precision using advanced manufacturing systems and intense quality control. Every tool is checked before it leaves the factory to make sure that it meets your standards for durability, reliability and power.

DEWALT Built Jobsite Tough...WE GUARANTEE IT.

- ***NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.*** *Don't leave tool until it comes to a complete stop.*
- ***DO NOT OPERATE ELECTRIC TOOLS NEAR FLAMMABLE LIQUIDS OR IN GASEOUS OR EXPLOSIVE ATMOSPHERES.*** *Motors in these tools may spark and ignite fumes.*
- ***EXTENSION CORDS.*** *Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.*

Minimum Gage for Cord Sets

Volts	**Total Length of Cord in Feet**				
120V	0-25	26-50	51-100	101-150	
240V	0-50	51-100	101-200	201-300	
Ampere Rating					
More Than	Not more Than	**AWG**			
0	- 6	18	16	16	14
6	- 10	18	16	14	12
10	- 12	16	16	14	12
12	- 16	14	12	Not Recommended	

Additional Safety Rules For Miter Saws

- ***CAUTION:*** *FAILURE TO HEED THESE WARNINGS MAY RESULT IN PERSONAL INJURY AND SERIOUS DAMAGE TO THE SAW.*
- *DO-Protect electric supply line with at least a 15 ampere time-delay fuse or a circuit breaker.*
- *DO-Make certain the blade rotates in the correct direction and that the teeth at the bottom of the blade are pointing to the rear of the miter saw.*
- *DO-Be sure all clamp handles are tight before starting any operation.*
- *DO-Be sure all blade and clamp washers are clean and recessed sides of collars are against blade. Tighten arbor screw securely.*
- *DO- Keep saw blade sharp and properly set.*
- *DO-Keep motor air slots free of chips and dirt.*
- *DO-Use blade guards at all times.*
- *DO-Keep hands out of path of saw blade.*
- *DO-Shut off power, disconnect cord from power source and wait for saw blade to stop before servicing or adjusting tool.*
- *DO-Support long work with an outboard tool rest.*
- *DON'T-Attempt to operate on anything but designated voltage.*
- *DON'T-Operate unless all clamp handles are tight.*
- *DON'T- Use blades larger or smaller than those which are recommended.*
- *DON'T- Wedge anything against fan to hold motor shaft.*
- *DON'T-Force cutting action. (Stalling or partial stalling of motor can cause major damage. Allow motor to reach full speed before cutting.)*
- *DON'T- Cut ferrous metals (Those with any iron or steel content) or any masonry.*
- *DON'T-Use abrasive wheels. The excessive heat and abrasive particles generated by them will damage the saw.*
- *DON'T-Allow anyone to stand behind saw.*
- *DON'T-Apply lubricants to the blade when it's running.*
- *DON'T-Place either hand in the blade area when the saw is connected to the power source.*
- *DON'T-Use blades rated at less than 4800 R.P.M.*
- *DON'T-Attempt to cut small pieces (6") without clamping.*
- *DON'T-Operate saw without guards in place.*
- *DON'T-Perform any operation freehand.*

- *DON'T-Reach around or behind saw blade.*
- *DON'T-Place hands closer than 6 inches from the saw blade.*
- *DO NOT - Reach underneath the saw unless it is turned off and unplugged. The saw blade is exposed on the underside of the saw.*
- *DO NOT - Move either hand from saw or workpiece or raise the arm until the blade has stopped.*
- *DO NOT - Use without kerf plate or when kerf slot is wider than 3/8".*

CAUTION: *Do not connect unit to electrical power source until complete instructions are read and understood.*

CAUTION: *Some wood contains preservatives such as copper chromium arsenate (CCA) which can be toxic. When cutting or sanding these materials, extra care should be taken to avoid inhalation and minimize skin contact.*

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

ON MOTOR HOUSING:

WARNING: FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING SAW.

WHEN SERVICING, USE ONLY IDENTICAL REPLACEMENT PARTS.

ALWAYS WEAR EYE PROTECTION.

ON GUARD:

DANGER – KEEP AWAY FROM BLADE.

ON TABLE: *(2 PLACES)*

ALWAYS TIGHTEN ADJUSTMENT KNOBS BEFORE USE. KEEP HANDS 6" FROM PATH OF SAW BLADE. NEVER PERFORM ANY OPERATION FREEHAND. NEVER CROSS ARMS IN FRONT OF SAW BLADE. THINK! YOU CAN PREVENT ACCIDENTS.

DO NOT OPERATE SAW WITHOUT GUARDS IN PLACE. NEVER REACH IN BACK OF SAW BLADE. ALWAYS WEAR EYE PROTECTION. SHUT OFF POWER AND WAIT FOR BLADE TO STOP BEFORE SERVICING, ADJUSTING TOOL, OR MOVING HANDS.

SAVE THESE INSTRUCTIONS

Electrical Connection

Be sure your power supply agrees with the nameplate marking. 120 volts, AC/DC means that your saw will operate on alternating or direct current. A voltage decrease of 10 percent or more will cause a loss of power and overheating. All DEWALT tools are factory tested. If this tool does not operate, check the power supply.

Extension Cords

When using the tool at a considerable distance from the power source, an extension cord of adequate size must be used for safety, and to prevent loss of power and overheating. Use the table below to determine the minimum wire size required.

Before using cords, inspect them for loose or exposed wires and damaged insulation. Make any needed repairs or replacement before using your power tool.

CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS

	TOTAL EXTENSION CORD LENGTH - FEET			
	25	50	75	100
120 volt tools	16 ga.	14 ga.	12 ga.	10 ga.

minimum wire size

NOTE: The lower the wire size number, the heavier the wire, and the farther it will carry current without a significant voltage drop.

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 No. DW704 miter saw.
2. One blade wrench in wrench pocket shown in Figure 2.

Familiarization

Your miter saw is fully assembled in the carton. Open the box and lift the saw out by the convenient carrying handle, as shown in Figure 1.

Place the saw on a smooth, flat surface such as a workbench or strong table.

Examine Figures 2 & 3 to become familiar with the saw and its various parts. The following section on adjustments will refer to these terms and you must know what and where the parts are.

Press down lightly on the operating handle and pull out the lock down pin, as shown in Figure 4. Gently release the downward pressure and allow the arm to rise to its full height. Use the lock down pin when carrying the saw from one place to another. Always use the carrying handle to transport the saw or the hand indentations shown in Fig. 3.

FIG. 1

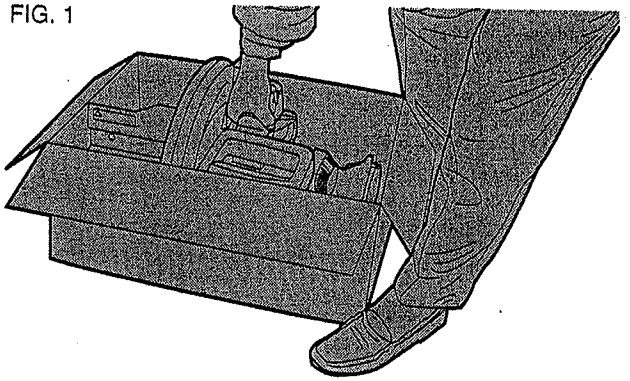


FIG. 2

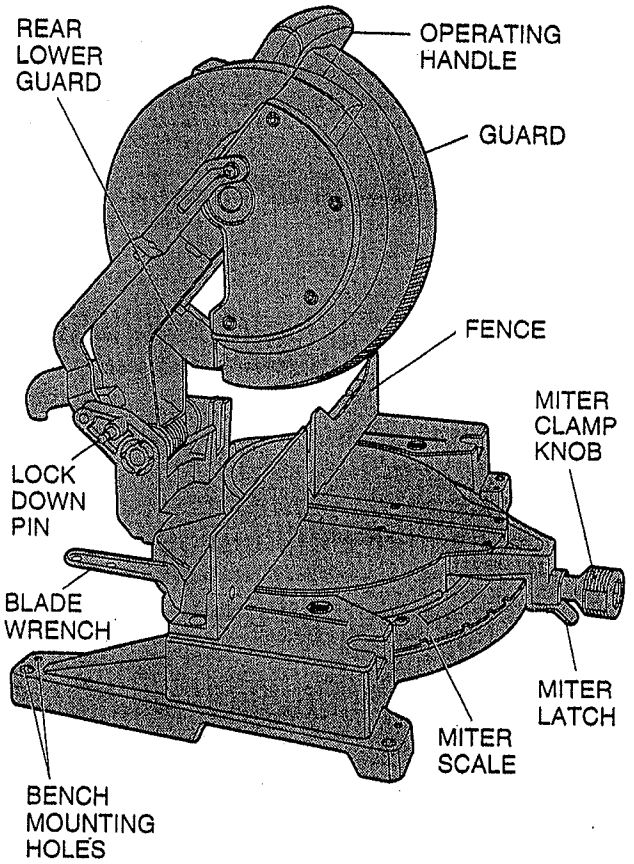
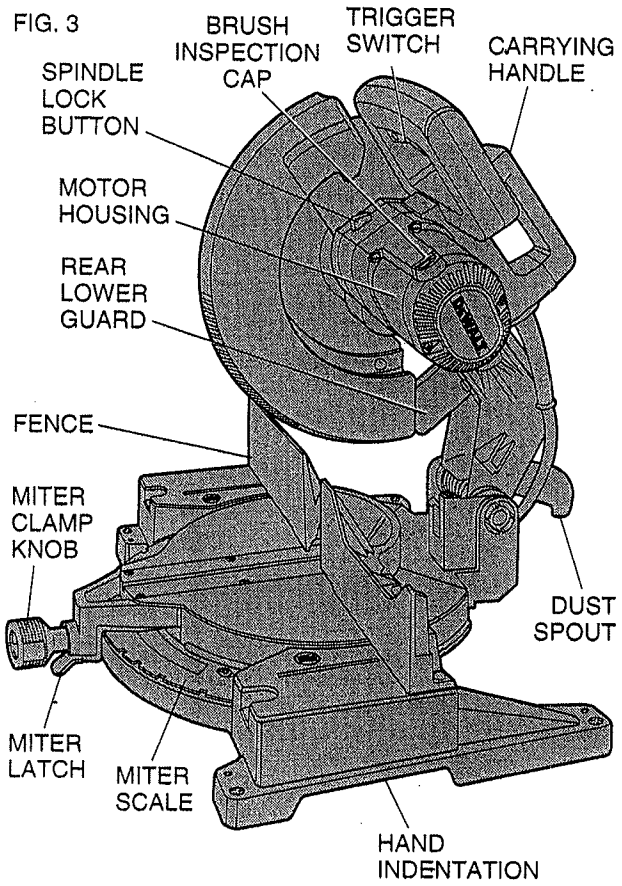


FIG. 3



Specificatior

CAPACITY OF CUT

48 degree miter left and right

0 degree miter

Max. Height 3.9"	Result Width 5.9"
Max. Width 7.9"	Result Height 2.5"

45 degree miter

Max. Height 3.9"	Result Width 4.1"
Max. Width 5.5"	Result Height 2.5"

DRIVE

2000 Watts out 13 Amp Motor

Cut Helical Gears with Ball Bearings

32 Tooth Carbide Blade, 4000 RPM

Automatic Electric Brake

Optional Accessories

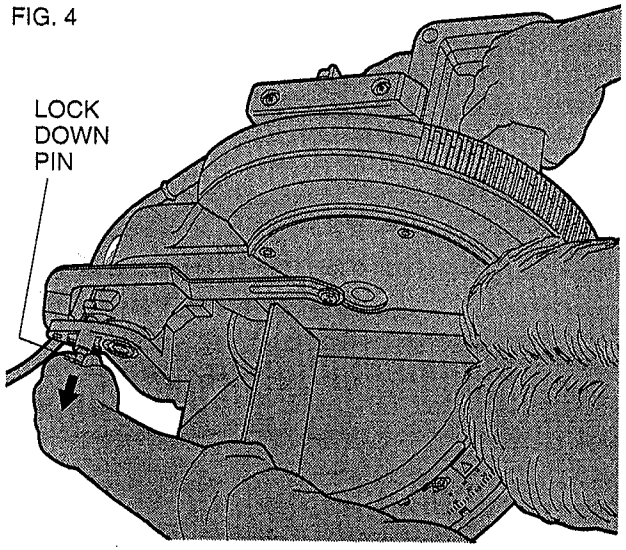
Extension, Work Support: DW7050

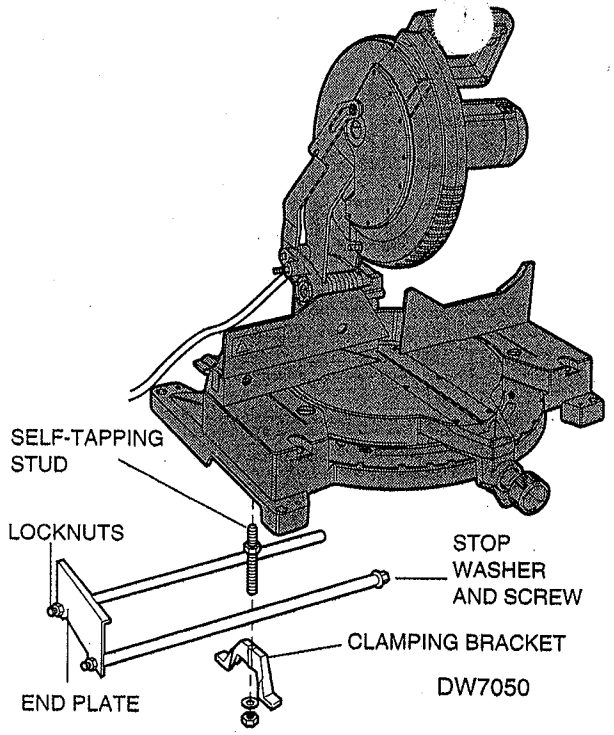
Used to support long overhanging workpieces, the work support is user assembled and stores conveniently under the saw table. Your saw table is designed to accept two work supports; one on each side.

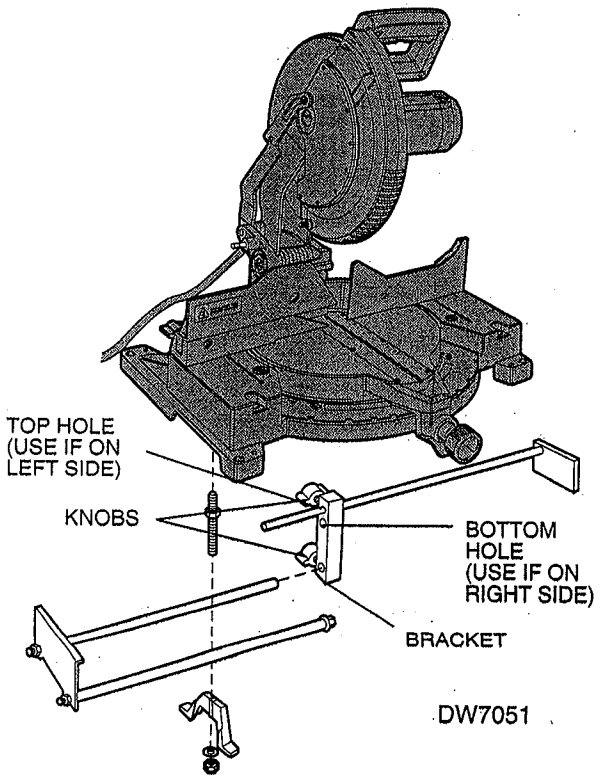
Adjustable Length Stop: DW7051

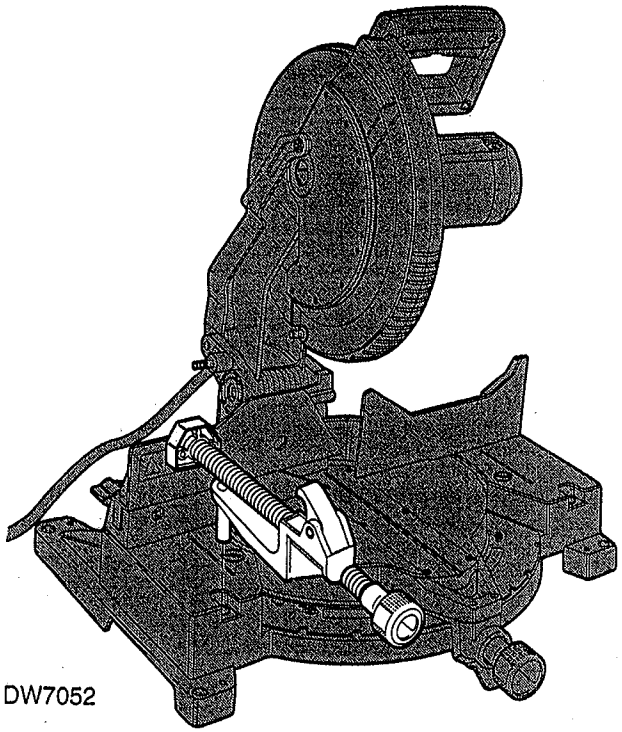
Requires the use of one work support (see above). It is used to make repetitive cuts of the same length from 0 to 42".

FIG. 4

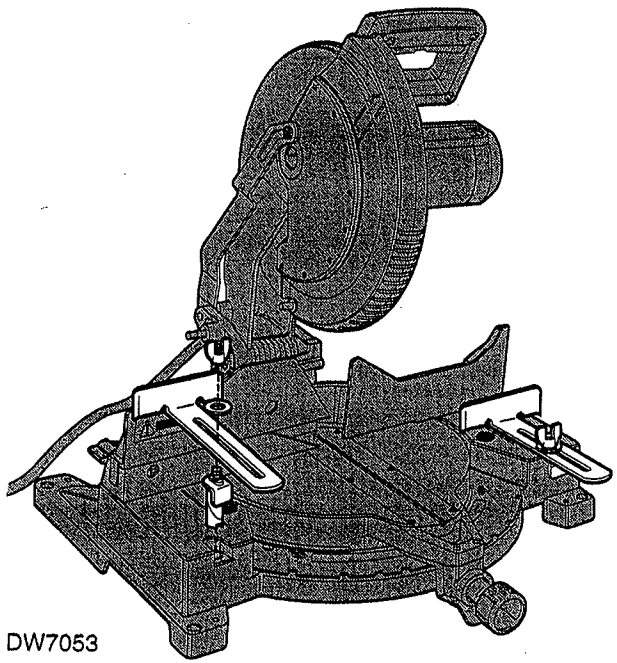








DW7052



DW7053

Clamp: DW7052

Used for firmly clamping workpiece to the saw fence for precision cutting

Dust Bag: DW7053

Equipped with a zipper for easy emptying, the dust bag will capture the majority of the sawdust produced.

NOTE: Deflector on dust spout channels debris to ground. Spout has a provision to attach a vacuum hose to collect sawdust. Lift dust spout to connect hose.

Crown Molding Fence: DW7054

Used for precision cutting of crown molding.

Kit Box: DW7056

Used to store and transport DW704 accessories.

SAW BLADES: ALWAYS USE 12" SAW BLADES WITH 1" ARBOR HOLES. SPEED RATING MUST BE AT LEAST 4800 RPM.

APPLICATION	BLADE DESCRIPTION	NO. OF TEETH	TYPE OF CUT
Fine Trim Molding	Precision Trim Carbide	60-100	Very Smooth Splinter Free
Trim, Framing, Pressure Treated Decking	Combination Multi-Purpose	32-60	Smooth, Fast Cut
Aluminum	Non-Ferrous Metal Cutting	60-80	-------

Accessories

Recommended accessories for use with your tool are available at extra cost from your local DEWALT certified service center.

CAUTION: The use of any non-recommended accessory may be hazardous.

If you need assistance in locating any accessory, please contact DEWALT Industrial Tool Company, P.O. Box 158, 626 Hanover Pike, Hampstead, MD 21074 or call 1-800-4-DEWALT (1-800-433-9258).

Bench Mounting

Holes are provided in all four feet to facilitate bench mounting, as shown in Figure 2. (Two different sized holes are provided to accommodate different sizes of screws. Use either hole, it is not necessary to use both.) Always mount your saw firmly to prevent movement. To enhance the tool's portability, it can be mounted to a piece of 1/2" or thicker plywood which can then be clamped to your work support or moved to other job sites and reclamped.

FIG. 5

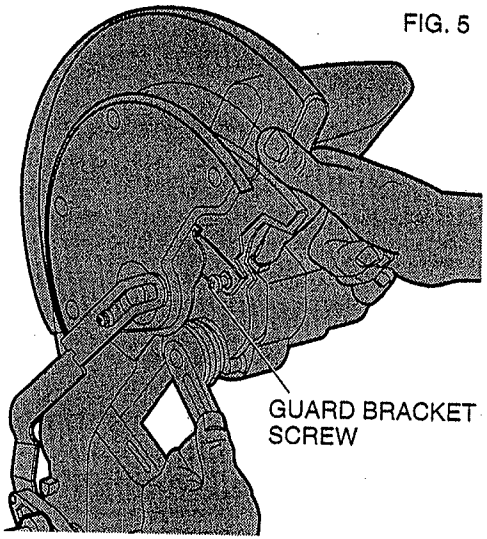


FIG. 6

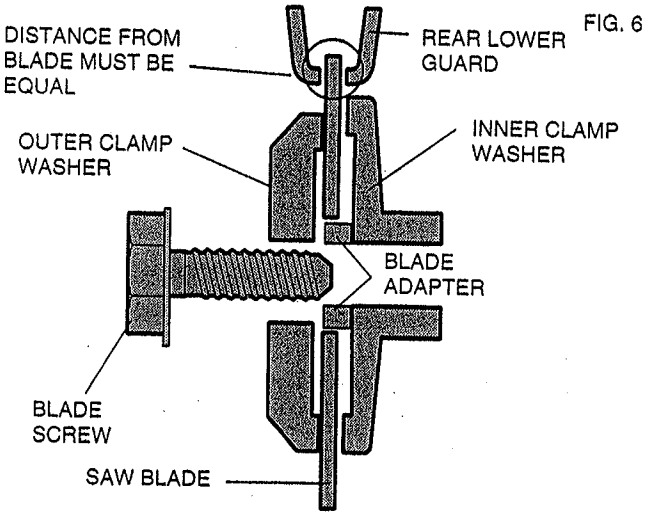


FIG. 7

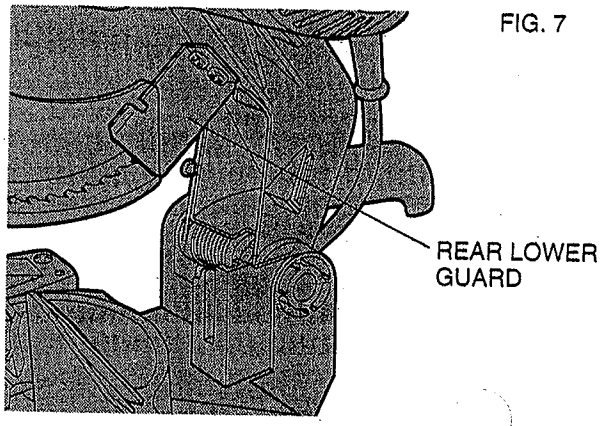


FIG. 8

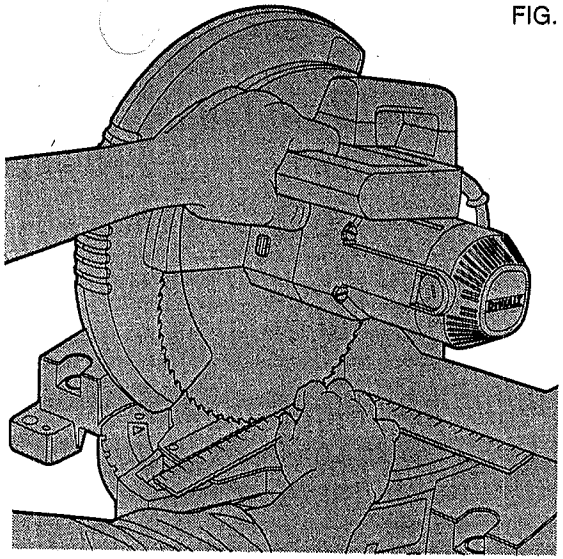
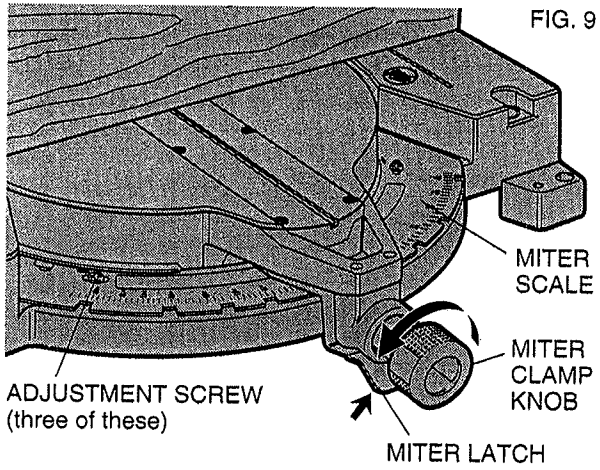


FIG. 9



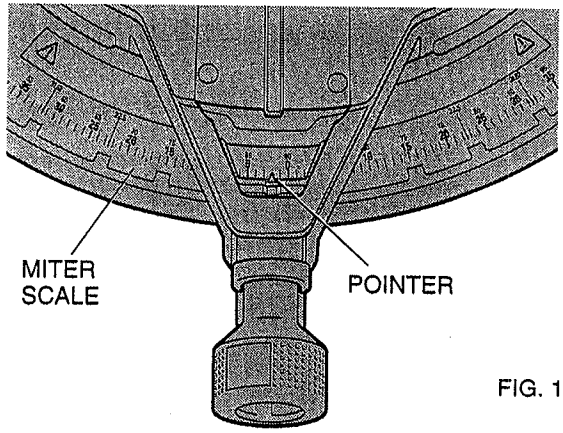


FIG. 10

NOTE: If you elect to [illegible] t your saw to a piece of plywood, make sure tha[illegible]e mounting screws don't protrude from the bottom of the wood. The plywood must sit flush on the work support. When clamping the saw to any work surface, clamp only on the clamping bosses where the mounting screw holes are located. Clamping at any other point will surely interfere with the proper operation of the saw.

CAUTION: To prevent binding and inaccuracy, be sure the mounting surface is not warped or otherwise uneven. If the saw rocks on the surface place a thin piece of material under one saw foot until the saw sits firmly on the mounting surface.

Installing a New Saw Blade

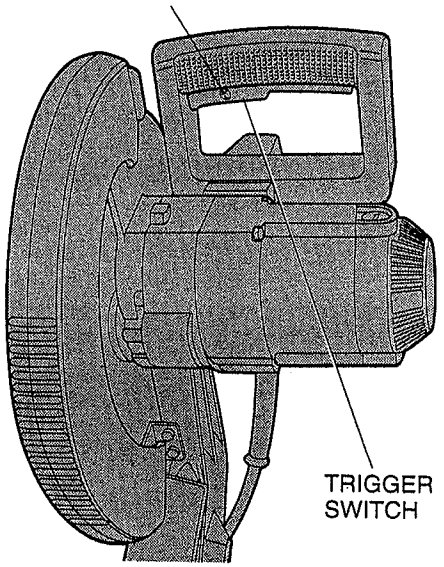
(UNPLUG THE MITER SAW)

DO NOT CUT FERROUS METAL (THAT WITH AN IRON OR STEEL CONTENT) OR MASONRY WITH THIS MITER SAW.

With the saw arm in the upper position, raise the lower guard as far as possible. Loosen (but do not remove) The guard bracket screw, shown in Figure 5 until the guard bracket can be raised enough to permit access to the blade screw. Hold the lower guard up and depress the spindle lock button with one hand and use the supplied blade wrench in the other hand to loosen (clockwise) the left hand threaded blade screw.

NOTE: To use the spindle lock, depress the button as shown and rotate the blade by hand until you feel the lock

FIG. 11



engage. Continue to hold the lock butt[illegible] to keep the spindle from turning. Remove the blade screw and the blade.

As shown in Figure 6 the inner clamp washer is installed first, then the blade adapter. The blade adapter is designed to permit the use of saw blades with 1" arbor holes as well as those with 5/8" arbor holes.

When using blades with 1" arbor holes, install the blade adapter over the spindle shaft and against the inner clamp washer, as shown in the figure. Next, install the saw blade making sure that the arbor hole in the blade fits on the blade adapter. Make sure that the teeth at the bottom of the blade are pointing toward the back of the saw (away from the operator). Install the outer clamp washer and install the blade screw. Tighten firmly using the spindle lock and the provided wrench (left hand threads). When using saw blades with 5/8" arbor holes, remove the blade adapter! Save it in a safe place for future use. The rest of the blade assembly is exactly the same.

NEVER DEPRESS THE SPINDLE LOCK PIN WHILE THE BLADE IS ROTATING.

be sure to hold the guard bracket down and firmly tighten the guard bracket screw when you finish installing the saw blade. FAILURE TO DO SO WILL CAUSE SERIOUS DAMAGE TO THE SAW.

Rear Lower Guard Adjustment

Check the rear lower guard to ensure that it is located such that the saw blade is in the center and equidistant from each side, as shown in Figures 6 & 7. Adjust as necessary by loosening the two screws and moving the guard. Firmly tighten both screws. Never remove this guard.

Cutting the Kerf

In order to adjust and use your miter saw, you must cut a slot through the kerf plate to allow for blade clearance. To cut the kerf plate, set the saw at 0 degrees miter. Place a piece of scrap wood on the kerf plate at least 1"x6"x12". Turn the saw on and allow the blade to reach full speed. Pull the saw arm down as far as it will go and CUT SLOWLY THROUGH THE SCRAP WOOD AND THE YELLOW PLASTIC KERF PLATE. Turn the saw off and allow the blade to stop before raising the saw arm.

Transporting the Saw

TURN OFF AND UNPLUG THE MITER SAW BEFORE

ATTEMPTING TO MOVE IT OR MAKE ANY ADJUSTMENTS WHAT-SO-EVER!

In order to conveniently carry the miter saw from place to place, a carrying handle has been included on the top of the saw arm, as shown in Figure 3. To transport the saw, lower the arm and depress the lock down pin shown in Figure 4.

NOTE: The saw arm cannot be fully lowered if the tool has a blade installed unless the kerf plate has been cut. If you wish to transport the saw before cutting the kerf plate, remove the saw blade.

Adjustments

PERFORM ALL ADJUSTMENTS WITH THE MITER SAW UNPLUGGED

NOTE: Your miter saw is fully and accurately adjusted at the factory at the time of manufacture. If readjustment due to shipping and handling or any other reason is required, follow the steps below to adjust your saw.

Once made, these adjustments should remain accurate. Take a little time now to follow these directions carefully to attain the accuracy of which your saw is capable.

MITER SCALE ADJUSTMENT –

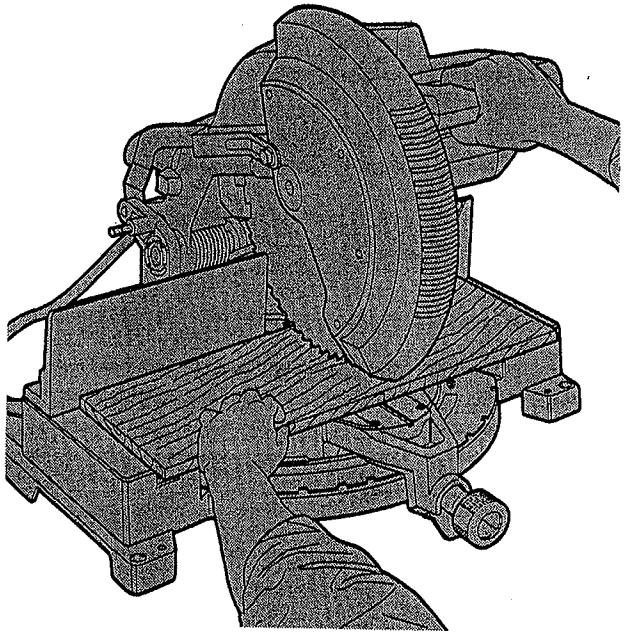
Place a square against the saw's fence and blade, as shown in Figure 8. (Do not touch the tips of the blade teeth with the square. To do so will cause an inaccurate measurement.) Loosen the miter clamp knob, shown in Figure 9) and swing the miter arm until the miter latch locks it at the 0 miter position. Do not tighten the clamp knob. If the saw blade is not exactly perpendicular to the fence, loosen the three screws that hold the miter scale to the base, shown in Figure 9, and move the scale/miter arm assembly left or right until the blade is perpendicular to the fence, as measured with the square. Retighten the three screws. Pay no attention to the reading of the miter pointer at this point.

MITER POINTER ADJUSTMENT –

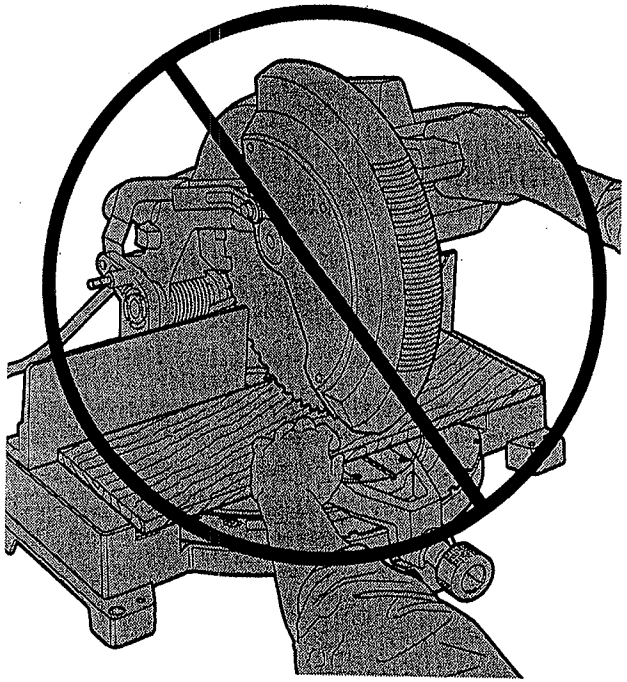
Loosen the miter clamp knob and squeeze the miter latch to move the miter arm to the zero position, as shown in Figure 9. With the miter clamp knob loose allow the miter latch to snap into place as you rotate the miter arm past zero. Observe the pointer and miter scale through the viewing opening shown in Figure 10. If the pointer does not indicate exactly zero, use a screwdriver to gently pry it left or right as required.

GUARD ACTUATION AND VISIBILITY

The blade guard on your saw has been designed to automatically raise when the arm is brought down and to lower over the 'e when the arm is raised.

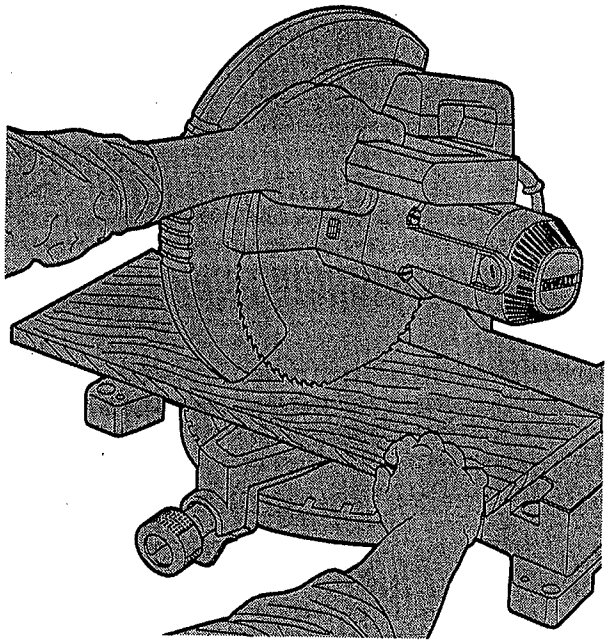


PROPER CUT

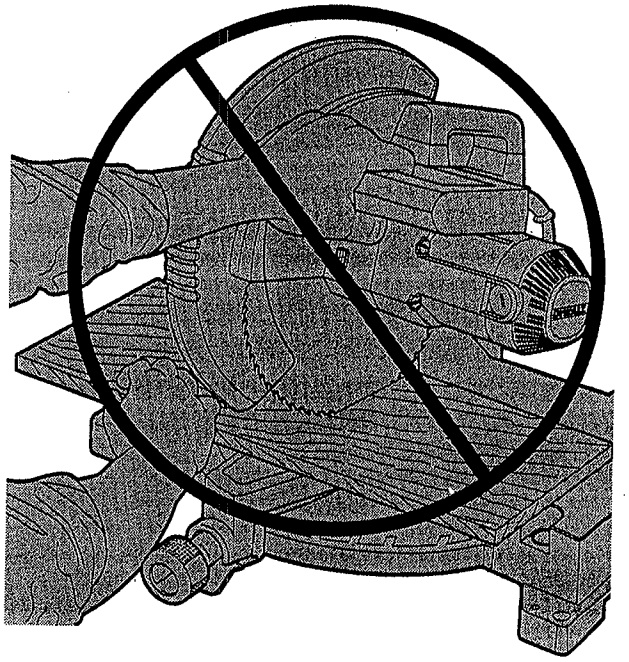


IMPROPER CUT

FIG. 12



PROPER CUT



IMPROPER CUT