INSTRUCTION MANUAL



D28710-XE HEAVY-DUTY 355 mm (14") CHOP SAW

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

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

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

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

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

IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DEWALT TOOL, CALL US AT: 1800 444 224 (Aust) or 0800 339 258 (NZ).

Important Safety Instructions



WARNING: Read all instructions before operating product. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

READ ALL INSTRUCTIONS

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.

NOTE: Double insulation does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

ACAUTION: WHEN SERVICING USE ONLY IDENTICAL REPLACEMENT PARTS. Repair or replace damaged cords.

Safety Instructions For All Tools

This miter saw accepts the DEWALT worklight and laser attachments.

${f A}$ WARNING: To reduce the risk of eye injury, ALWAYS use eye protection when operating the miter saw.

- KEEP GUARD IN PLACE and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from spindle before turning tool on. Tools, scrap pieces, and other debris can be thrown at high speed, causing injury.
- KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- DO NOT USE THE MACHINE IN A DANGEROUS ENVIRONMENT. The use of power tools in damp or wet locations or in rain can cause shock or electrocution. Keep your work area well-lit to avoid tripping or placing arms, hands, and fingers in danger.
- **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from work area. Your shop is a potentially dangerous environment.
- MAKE WORKSHOP CHILDPROOF with padlocks, master switches, or by removing starter keys. The unauthorized start-up of a machine by a child or visitor may result in injury.
- DON'T FORCE TOOL. It will do the job better and be safer at the rate for which it was designed.
- USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed. Using the incorrect tool or attachment may result in personal injury.
- WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Air vents may cover moving parts and should also be avoided.
- ALWAYS USE SAFETY GLASSES. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask
 if cutting operation is dusty. ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT:
 - ANSI Z87.1 eye protection (CAN/CSA Z94.3),
 - ANSI S12.6 (S3.19) hearing protection,
 - NIOSH/OSHA/MSHA respiratory protection.

- SECURE THE WORKPIECE. Use clamps or a vise to hold the workpiece on the table and against the fence or when your hand will be dangerously close to the blade (within 6"). It is safer than using your hand and it frees both hands to operate tool.
- DON'T OVERREACH. Keep proper footing and balance at all times. Loss of balance may cause personal injury.
- MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow
 instructions for lubricating and changing accessories. Poorly maintained tools and machines can further
 damage the tool or machine and/or cause injury.
- TURN THE MACHINE "OFF", AND DISCONNECT THE MACHINE FROM THE POWER SOURCE before installing or removing accessories, before adjusting or changing set-ups, when making repairs or changing locations. An accidental start-up can cause injury. Do not touch the plug's metal prongs when unplugging or plugging in the cord.
- **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure that the switch is in the "OFF" position before plugging in the power cord.
- USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. If your product is equipped with a cordset, use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole receptacles that accept the tool's plug. 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 GAUGE FOR CORD SETS							
For Cable length (m):	7.5	15	25	30	45	60	
Use Cable with minimum rating (Amperes)							
Tool Amperes							
0 - 3.4	7.5	7.5	7.5	7.5	7.5	7.5	
3.5 - 5.0	7.5	7.5	7.5	7.5	10	15	
5.1 - 7.0	10	10	10	10	15	15	
7.1 - 12.0	15	15	15	15	20	20	
12.1 - 20.0	20	20	20	20	25	-	

- CHECK FOR DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function—check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced. Do not use tool if switch does not turn it on and off.
- **USE RECOMMENDED ACCESSORIES.** Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may be hazardous when used on another tool. Consult the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop. Serious injury can result.
- DO NOT OPERATE ELECTRIC TOOLS NEAR FLAMMABLE LIQUIDS OR IN GASEOUS OR EXPLOSIVE ATMOSPHERES. Motors in these tools may spark and ignite fumes.
- STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE. DO NOT USE THE MACHINE WHEN YOU ARE TIRED OR UNDER THE INFLUENCE OF DRUGS or ALCOHOL. A moment of inattention while operating power tools may result in injury.

Additional Safety Rules For Chop Saw

AWARNING: Do not allow familiarity (gained from frequent use of your saw) to replace safety rules. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

- Always wear proper eye and respiratory protection.
- Before using, inspect the cutting wheel for cracks or flaws. If such a crack or flaw is evident, discard the wheel. The wheel should also be inspected whenever you think the tool may have been dropped. Flaws may cause wheel breakage.

- When starting the tool with a new or replacement wheel or if you are unsure of the condition of the wheel. hold the tool in a well protected area and let it run for one minute. If the wheel has an undetected crack or flaw, it should burst in less than one minute. Never start the tool with a person in line with the wheel. This includes the operator.
- . In operation, avoid bouncing the wheel or giving it rough treatment. If this occurs, stop the tool and inspect the wheel for cracks or flaws.
- Clean your chop saw periodically following the procedure in this manual.
- Do not remove wheel guards or base.
- ALWAYS USE THE VISE OR SPECIAL FIXTURE TO CLAMP WORK SECURELY. Other aids such as spring, bar. or C-clamps may be appropriate for certain sizes and shapes of workpiece. Use care in selecting and placing these clamps and make a dry run before making a cut.
- Use only 14" type 1 wheels rated at 4100 rpm or higher.
- Allow cut off parts to cool before handling.
- · Do not attempt to cut wood or plastic with this tool.
- NEVER CUT MAGNESIUM WITH THIS TOOL.
- Use chop saw in a well-ventilated area.
- Turn chop saw off before removing any pieces from the base.
- DO NOT CUT ELECTRICALLY LIVE MATERIAL.
- DO NOT USE CIRCULAR SAW BLADES OR ANY OTHER TOOTHED BLADES WITH THIS TOOL. Serious injury may result.
- DO NOT OPERATE THIS TOOL NEAR FLAMMABLE LIQUIDS, GASES OR DUST. Sparks or hot chips from cutting or arcing motor brushes may ignite combustible materials.
- Do not use the side of the abrasive wheel as a deburring grinder. This will substantially weaken the wheel creating an unsafe condition. The wheel may come apart.

ACAUTION: Spark deflector will get hot. Avoid touching or adjusting while hot. Keep cordset and materials away from spark deflector.

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

AWARNING: 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,

A WARNING: NEVER MAKE ANY CUT UNLESS THE MATERIAL IS SECURED ON THE TABLE AND AGAINST THE FENCE.

A WARNING: Some dust created by power sanding, sawing, grinding, drilling, 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 timber.

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.

 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.

A 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.

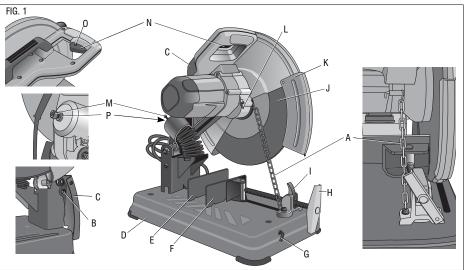
For your convenience and safety, the following warnings are on your Heavy-Duty 14" (355 mm) Chop Saw:

FOR SAFE OPERATION READ THE INSTRUCTION MANUAL. Â. DO NOT USE TOOTHED BLADES. USE ONLY REINFORCED WHEELS RATED 4100 RPM OR HIGHER. WHEN SERVICING. USE ONLY IDENTICAL REPLACEMENT PARTS. ALWAYS WEAR EYE PROTECTION, USE GUARDS, CLAMP WORK IN VISE, USE PROPER **RESPIRATORY PROTECTION.** DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS.

Electrical Connection

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate. 230 V AC means your tool will operate on alternating current. As little as 10% lower voltage can cause loss of power and can result in overheating. All DEWALT tools are factory tested; if this tool does not operate, check the power supply. Your DEWALT tool is double insulated, therefore no earth wire is reauired.

- Young children and the infirm. This appliance is not intended for use by young children or infirm persons without supervision.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- · Replacement of the supply cord. If the supply cord is damaged, it must be replaced by the manufacturer or an authorised DEWALT Service Centre in order to avoid a hazard.



Description (fig. 1)

- A. Chain lock
- B. Spark deflector screw
- C. Spark deflector
- D. Base
- E. Fence
- F. Vise
- G. 8 mm hex wrench
- H. Crank
- I. Vise lever

Power Supply

Be sure your power supply agrees with the nameplate marking.

A voltage decrease of more than 10% will cause a loss of power and overheating.

Cutting Capacity

The wide vise opening and high pivot point provide cutting capacity for many large pieces. Use the cutting capacity chart to determine total maximum size of cuts that can be made with a new wheel.

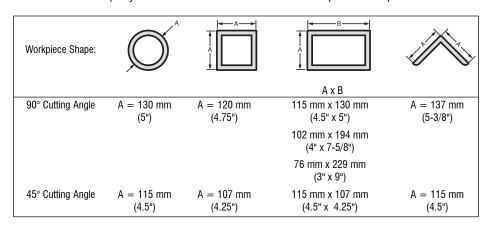
A WARNING: CERTAIN LARGE, CIRCULAR OR IRREGULARLY SHAPED OBJECTS MAY REQUIRE ADDITIONAL HOLDING MEANS IF THEY CANNOT BE HELD SECURELY IN VISE. AWARNING: DO NOT CUT MAGNESIUM WITH THIS TOOL.

- J. Wheel K. Guard
- L. Wheel lock lever
- M. Depth stop bolt
- N. Trigger switch
- 0. Padlock hole

Q. Fence bolts

Р. Jam nut

MAXIMUM CUTTING CAPACITY NOTE: Capacity shown on chart assumes no wheel wear and optimum fence position.



Standard Equipment

- 1 355 mm (14") metal cutting abrasive wheel
- 1 Wheel wrench
- 1 Instruction manual

To Carry (Fig. 1)

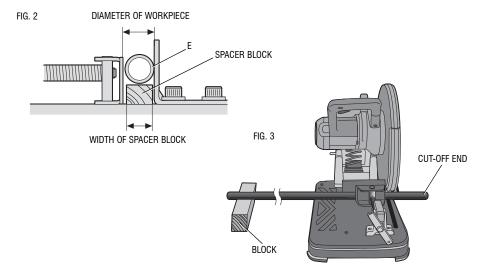
Fold down unit to position where you can carry the saw. Use the chain lock (A) to lock arm down.

Unlocking (Fig. 1)

To unlock tool and raise head, depress motor arm slightly and unlock the chain lock (A). Motor arm will then pivot upward.

Material Clamping and Supporting

- · Angles are best clamped and cut with both legs resting against base.
- A spacer block slightly narrower than the workpiece can be used to increase wheel utilization (Fig. 2).
- Long workpieces must be supported by a block so it will be level with top of base (Fig. 3). The cut-off end should be free to fall downward to avoid wheel binding.

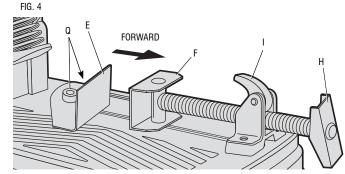


Spark Deflector Adjustment (Fig. 1)

To best deflect sparks away from surrounding persons and materials, loosen the screw (B), adjust the spark deflector (C) and then retighten screw. Do not allow cordset to come into contact with deflector or sparks as damage to cordset may occur.

Vise Operation (Fig. 4)

The vise (F) has a quick-travel feature. To release the vise when it is clamped tightly, turn the crank (H) counterclockwise one or two times to remove clamping pressure. Lift vise lever (I) up. Pull crank assembly out as far as desired. Vise may be pushed forward into work without cranking. Lower vise lever (I) then tighten vise (F) on work by using crank (H).



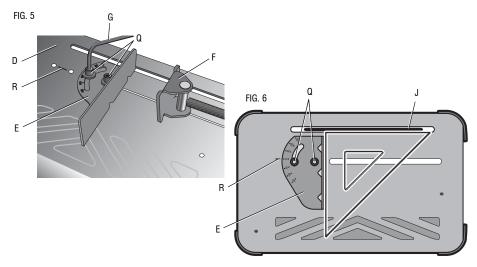
Fence Operation

A WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. Be sure the trigger switch is in the OFF position.

The fence (E) can be adjusted two ways: to change desired cutting angle and to change spacing between the fence and vise.

TO CHANGE THE DESIRED CUTTING ANGLE (FIG. 5, 6)

Use the wrench provided to loosen (do not remove) the two fence bolts (Q). Align the desired angle indicator line with the slot line (R) in the base (D). Securely tighten both fence bolts before use.



For more accurate square cuts, disconnect the power supply, loosen the two fence bolts, push arm down until wheel extends into base. Place a square against the wheel and adjust fence against the square. Securely tighten both fence bolts before use.

When making a miter cut, the vise (F) may not clamp securely, depending on the thickness of the workpiece and the miter angle. Other aids (such as spring, bar or C-clamps) will be necessary to secure the workpiece to the fence when making these cuts.

TO CHANGE SPACING BETWEEN THE FENCE AND VISE

Using the wrench provided, loosen and remove the two fence bolts (Q). Adjust the fence (E) to desired locations. Insert both fence bolts in provided locations. Securely tighten both fence bolts before use.

Depth Stop (Fig. 1)

Depth stop is set at the factory for a new 355 mm (14") wheel to prevent wheel from cutting into the supporting surface. To allow more depth of cut, use the 8 mm hex wrench (G) provided to loosen the depth stop bolt (M) and raise bolt to desired height and then turn jam nut (P) clockwise until seated firmly on the casting. Securely tighten the depth stop bolt before use.

ACAUTION: When changing to a new wheel, readjust depth stop to original position to prevent cutting into supporting surface.

Trigger Switch (Fig. 1)

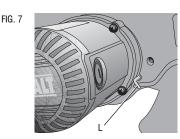
To start the tool, depress the trigger switch (N). To turn the tool off, release the trigger switch. Keep hands and material from wheel until it has coasted to a stop.

To prevent unauthorized use of tool, install a standard padlock (not included) into the padlock hole (0) located in the trigger.

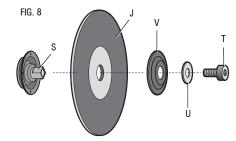
Removal and Installation of Wheels (Fig. 1, 7, 8)

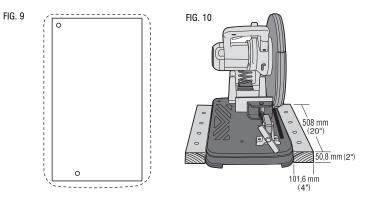
AWARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. Be sure the trigger switch is in the OFF position. Do not make any adjustment while the wheel is in motion. Do not make any adjustment while chop saw is plugged into power supply.

- Push in wheel lock lever (L) and rotate wheel (J) by hand until wheel lock lever engages slot in inside flange (S) to lock wheel. Loosen the bolt (T) counterclockwise in the center of the abrasive wheel with the 8 mm hex wrench (G). Bolt has right-hand thread.
- 2. Remove the bolt (T), washer (U), outside flange (V) and old wheel (J).
- 3. Make sure flange surfaces are clean and flat. Install the new abrasive wheel by reversing the above steps.
- 4. Do not overtighten bolt.



AWARNING: Check the work surface that the chop saw rests on when replacing with a new abrasive wheel. It is possible that the wheel may contact ANY ITEMS OR STRUCTURE THAT EXTENDS ABOVE work surface (under the base) when the arm is fully lowered.





Mounting (Fig. 9, 10)

ACAUTION: Tool must be supported on stable, level, non-skid surface to prevent unexpected movement when operating.

PROCEDURE FOR PERMANENT MOUNTING

- 1. Drill two holes 8 mm (5/16") through the work surface (Fig. 9).
- Insert 1/4–20 screws down through the holes in the base and through holes in mounting surface. The
 approximate length of the screws should be the thickness of the mounting surface plus 102 mm (4").
- 3. Tighten both screws securely.

CRADLE MOUNTING (FIG. 10)

- 1. Cut two boards approximately 508 x 50.8 x 101.6 mm (20" long x 2" high x 4" wide).
- 2. Place the chop saw at desired work location.

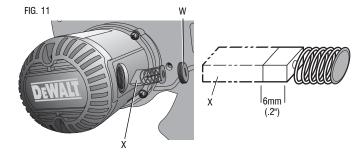
3. Place boards tightly alongside and nail to work surface.

Operation Tips for More Accurate Cuts

- Allow the wheel to do the cutting. Excessive force will cause the wheel to glaze reducing cutting efficiency and/or to deflect causing inaccurate cuts.
- Properly adjust fence angle.
- Make sure material is laying flat across base.
- Properly clamp material to avoid movement and vibration.

MAINTENANCE

A WARNING: To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. Be sure the trigger switch is in the OFF position.



Motor Brush Inspection and Replacement (Fig. 11)

Brushes should be regularly inspected for wear. To inspect brushes, remove brush cap (W). Brushes (X) should slide freely in brush box. If brushes are worn down to 6 mm (.2") as shown in Figure 10, they should be replaced. To reinstall, push new brush back into brush box. If replacing existing brush, maintain same orientation as when removed. Replace the brush cap (**do not overtighten**).

Cleaning

AWARNING: 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 AS/NZS51337 approved eye protection when performing this.

AWARNING: 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.

Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by certified service centers or other qualified service organizations, always using identical replacement parts.

Lubrication

Closed-type, grease-sealed ball bearings are used throughout. These bearings have sufficient lubrication packed in them at the factory to last the life of the chop saw.

ACCESSORIES

A 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.

Use only high-strength Type 1 organic bonded wheels rated 4100 rpm or higher.

Recommended accessories for use with your tool are available at extra cost from your local service center. If you need any assistance in locating any accessory, please contact Stanley Black & Decker, 82 Taryn Drive, Epping, VIC 3076 Australia or call 1800 444 224 or (NZ) 0800 339 258.

Service Information

Please have the following information available for all service calls:

Model Number	Serial Number
Date and Place of Purchase	

Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by a DEWALT factory service center, a DEWALT authorized service center or other qualified service personnel. Always use identical replacement parts.

TROUBLESHOOTING GUIDE

TROUBLE! TOOL WILL NOT START					
WHAT'S WRONG?	WHAT TO DO				
1. Tool not plugged in.	1. Plug in saw.				
2. Fuse blown or circuit breaker tripped.	2. Replace fuse or reset circuit breaker.				
3. Cord damaged.	3. Have cord replaced by authorized service center.				
4. Brushes worn out.	4. Replace brushes.				
TROUBLE! TOOL MAKES UNSATISFACTORY CUTS					
WHAT'S WRONG?	WHAT TO DO				
1. Glazed wheel.	1. Dress the wheel or replace with a new one.				
2. Workpiece incorrectly placed or clamped.	2. Firmly clamp and support workpiece.				
TROUBLE! BLADE DOES NOT COME UP TO SPEED					
WHAT'S WRONG?	WHAT TO DO				
 Extension cord too light or too long. Low voltage. 	 Replace with adequate size cord. See chart on page 1. 				
3. Low generator voltage.	2. Contact your electric company.				
	3. Check generator output voltage. Reduce number of tools powered by the generator.				
TROUBLE! TOOL VIBRATES EXCESSIVELY DURING CUT					
WHAT'S WRONG?	WHAT TO DO				
1. Tool not mounted securely to stand or work bench.	1. Tighten all mounting hardware.				
2. Damaged wheel.	2. Replace wheel.				
3. Workpiece not clamped properly.	 Refer to <i>Material Clamping and Supporting</i>, page 3 				
TROUBLE! DOES NOT MAKE ACCURATE CUTS					
WHAT'S WRONG?	WHAT TO DO				
1. Fence not adjusted correctly.	1. Check and adjust. See <i>Fence Operation</i> on page 3.				
2. Wheel is not square to fence.	2. Check and adjust.				
3. Excessive force used to make cut.	3. Reduce cutting force; let the wheel do the work.				
4. Workpiece moving.	 Clamp workpiece securely. See <i>Material Clamping</i> and <i>Supporting</i>, page 3. Make sure material is laying flat against the base. 				
TROUBLE! CANNOT MOVE ARM					
WHAT'S WRONG?	WHAT TO DO				
1. Chain lock is engaged.	 Push down slightly on the arm, unlock the chain lock and raise arm. 				
TROUBLE! MATERIAL MOVES DURING CUT					
WHAT'S WRONG?	WHAT TO DO				
1. Fence slipping or workpiece incorrectly placed or	1. See <i>Material Clamping and Supporting</i> , page 3.				
clamped.	2. Tighten vise clamping.				
2. Vise too loose.	3. Reduce cutting force.				
3. Excessive cutting force.					

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