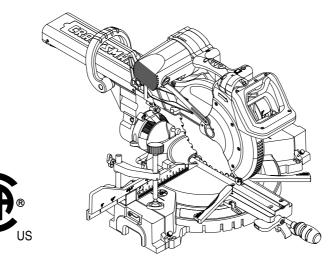
Operator's Manual

CRAFTSMAN®

PROFESSIONAL

12 in. DUAL BEVEL SLIDING COMPOUND MITER SAW WITH LASER TRAC® Model No. 137,212210



CAUTION:

Before using this Miter Saw, read this manual and follow all its Safety Rules and Operating Instructions

- Safety Instructions
- Installation
- Operation
- Maintenance
- Parts List

Customer Help Line For Technical Support 1-800-843-1682 Sears Parts & Repair Center 1-800-488-1222

Sears, Roebuck and Co., Hoffman Estates, IL 60179 USA Visit our Craftsman website: www.sears.com/craftsman Part No. 137212210001

Printed in Taiwan

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WARRANTY

CRAFTSMAN ONE YEAR FULL WARRANTY

If this Craftsman tool fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME® to arrange for free repair (or replacement if repair proves impossible).

This warranty applies for only 90 days from the date of purchase if this product is ever used for commercial or rental purposes.

This warranty does not include expendable parts, such as lamps, batteries, bits or blades.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Hoffman Estates, IL 60179

▲ WARNING

Some dust created by using power tools contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:

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

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

PRODUCT SPECIFICATIONS

MOTOR

BLADE SIZE

Diameter 12 in.

ROTATING TABLE

CUTTING CAPACITY

Crosscut	. 4 in. x 12-1/4 in.
Miter 45° R & L; 60° R	. 4 in. x 8-3/4 in. R & L ; 4 in. x 6-1/4 in. R
Bevel 45° R & L	. 2-1/2 in. x 12-1/4 in. L ; 1-3/4 in. x 12-1/4 in. R
45° Miter and 45° Bevel R & L	. 2-1/2 in. x 8-3/4 in.
60° Miter and 45° Bevel R	. 1-3/4 in. x 6-1/4 in.

▲ WARNING

To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.

This tool is wired at the factory for 110-120 Volt operation. It must be connected to a 110-120 Volt / 15 Ampere time delay fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

Before using your tool, it is critical that you read and understand these safety rules. Failure to follow these rules could result in serious injury to you or damage to the tool.

SYMBOLS

WARNING ICONS

Your power tool and its Operator's Manual may contain "WARNING ICONS" (a picture symbol intended to alert you to, and/or instruct you how to avoid, a potentially hazardous condition). Understanding and heeding these symbols will help you operate your tool better and safer. Shown below are some of the symbols you may see.



SAFETY ALERT: Precautions that involve your safety.



PROHIBITION



WEAR EYE PROTECTION: Always wear safety goggles or safety glasses with side shields.



READ AND UNDERSTAND OPERATOR'S MANUAL: To reduce the risk of injury, user and all bystanders must read and understand operator's manual before using this product.



KEEP HANDS AWAY FROM BLADE: Failure to keep your hands away from the blade will result in serious personal injury.



SUPPORT AND CLAMP WORK



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



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



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

CAUTION

CAUTION: used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

POWER TOOL SAFETY

GENERAL SAFETY INSTRUCTIONS BEFORE USING THIS POWER TOOL

Safety is a combination of common sense, staying alert and knowing how to use your power tool.

CAUTION

To avoid mistakes that could cause serious injury, do not plug the tool in until you have read and understood the following.

1. **READ** and become familiar with



the entire Operator's Manual. **LEARN** the tool's application, limitations and possible hazards.

- KEEP GUARDS IN PLACE and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning ON.
- KEEP WORK AREA CLEAN.
 Cluttered areas and benches invite accidents.
- DO NOT USE IN DANGEROUS ENVIRONMENTS. Do not use power tools in damp locations, or expose them to rain or snow. Keep work area well lit.
- KEEP CHILDREN AWAY. All visitors and bystanders should be kept a safe distance from work area.
- MAKE WORKSHOP CHILD PROOF with padlocks, master switches or by removing starter keys.

- 8. **DO NOT FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE THE RIGHT TOOL. Do not force the tool or an attachment to do a job for which it was not designed.
- 10. USE PROPER 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 result in a drop in line voltage and in loss of power which will cause the tool to overheat. The table on page 10 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- 11. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS WEAR EYE
PROTECTION. Any power tool can throw foreign objects into the eyes and

could cause permanent eye damage. **ALWAYS** wear Safety Goggles (not glasses) that comply with ANSI Safety standard Z87.1. Everyday eyeglasses have only impact–resistant lenses. They **ARE NOT** safety glasses. Safety Goggles are available at sears.

NOTE: Glasses or goggles not in compliance with ANSI Z87.1 could seriously injure you when they break.

- WEAR A FACE MASK OR DUST MASK. Sawing operation produces dust.
- 14. SECURE WORK. Use clamps or a vise to hold work when practical. It is safer than using your hand and it frees both hands to operate

the tool.

- 15. DISCONNECT TOOLS FROM POWER SOURCE before servicing, and when changing accessories such as blades, bits and cutters.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in the OFF position before plugging the tool in.
- 17. USE RECOMMENDED ACCESSORIES. Consult this Operator's Manual for recommended accessories. The use of improper accessories may cause risk of injury to yourself or others.
- NEVER STAND ON THE TOOL.
 Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- 19. 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.
- 20. NEVER LEAVE THE TOOL RUNNING UNATTENDED. TURN THE POWER "OFF". Do not walk away from a running tool until the blade comes to a complete stop and the tool is unplugged from the power source.
- 21. **DO NOT OVERREACH**. Keep proper footing and balance at all times.
- 22. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 23. WARNING: Dust generated from certain materials can be hazardous to your health. Always operate saw in well-ventilated area and provide for proper dust removal.
- 24. A DANGER People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

COMPOUND MITER SAW SAFETY

SPECIFIC SAFETY INSTRUCTIONS FOR THIS COMPOUND MITER SAW

- DO NOT operate the miter saw until it is completely assembled and installed according to these instructions.
- IF YOU ARE NOT thoroughly familiar with the operation of miter saws, seek guidance from your supervisor, instructor or other qualified person.
- ALWAYS hold the work firmly against the fence and table.
 DO NOT perform any operation free hand (use clamp wherever possible).
- 4. **KEEP HANDS** out of the path of the saw blade. If the workpiece you are cutting would cause your hands to be within 8-3/4 in. of the saw blade, the workpiece should be clamped in place before making the cut.
- 5. **BE SURE** the blade is sharp, runs freely and is free of vibration.
- 6. **ALLOW** the motor to come up to full speed before starting a cut.
- KEEP THE MOTOR AIR SLOTS CLEAN and free of chips or dust.
- ALWAYS MAKE SURE all handles are tight before cutting, even if the table is positioned in one of the positive stops.
- BE SURE both the blade and the collar are clean and the arbor bolt is tightened securely.

- 10.USE only blade collars specified for your saw.
- 11.**NEVER** use blades larger in diameter than 12 inches.
- 12.**NEVER** apply lubricants to the blade when it is running.
- 13.ALWAYS check the blade for cracks or damage before operation. Replace a cracked or damaged blade immediately.
- 14.NEVER use blades recommended for operation at less than 4200 RPM.
- 15.**ALWAYS** keep the blade guards in place and use at all times.
- 16.NEVER reach around the saw blade.
- 17.MAKE SURE the blade is not contacting the workpiece before the switch is turned ON.
- 18.IMPORTANT: After completing the cut, release the trigger and wait for the blade to stop before returning the saw to the raised position.
- 19.MAKE SURE the blade has come to a complete stop before removing or securing the workpiece, changing the workpiece angle or changing the angle of the blade.
- 20.NEVER cut metals or masonry products with this tool. This miter saw is designed for use on wood and wood-like products.

- 21. **NEVER** cut small pieces. If the workpiece being cut would cause your hand or fingers to be within 8-3/4 in. of the saw blade the workpiece is too small.
- 22. **PROVIDE** adequate support to the sides of the saw table for long work pieces.
- 23. **NEVER** use the miter saw in an area with flammable liquids or gases.
- 24. **NEVER** use solvents to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material.
- 25. **SHUT OFF** the power before servicing or adjusting the tool.
- 26. **DISCONNECT** the saw from the power source and clean the machine when finished using.
- 27. **MAKE SURE** the work area is clean before leaving the machine.
- 28. SHOULD any part of your miter saw be missing, damaged, or fail in any way, or any electrical component fail to perform properly, lock the switch and remove the plug from the power supply outlet. Replace missing, damaged, or failed parts before resuming operation.

ELECTRICAL REQUIREMENTS AND SAFETY

POWER SUPPLY AND MOTOR SPECIFICATIONS

The AC motor used in this saw is a universal, nonreversible type. See "MOTOR" in the "PRODUCT SPECIFICATIONS" section on page 3.

A WARNING

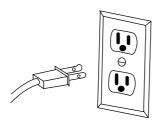
To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Your saw is wired at the factory for 120 V operation. Connect to a 120 V, 15A circuit and use a 15 A time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

DOUBLE INSULATED

The power tool is double insulated to provide a double thickness of insulation between you and tool's electrical system. All exposed metal parts are isolated from the internal metal motor components with protecting insulation.

Replacement parts – When servicing, use only identical replacement parts.

Polarized plugs – This saw has a plug that looks like the one shown below:



To reduce the risk of electrical shock, this saw has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one

way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

▲ WARNING

Double insulation does not take the place of normal safety precautions when operating this tool.

To avoid electrocution:

- Use only identical replacement parts when servicing a tool with double insulation. Servicing should be performed by a qualified technician.
- Do not use power tools in wet or damp locations or expose them to rain or snow.

MOTOR SAFETY PROTECTION IMPORTANT

To avoid motor damage, the motor should be blown out or vacuumed frequently to keep sawdust from interfering with the motor ventilation.

- Connect this saw to a 120 V circuit.
 This circuit must not be less than a #12 wire with a 20 A time lag fuse or a #14 wire with a 15 A time lag fuse.
 NOTE: When using an extension cord on a circuit with a #14 wire, the extension cord must not exceed 25 feet in length.
- If the motor will not start, release the trigger switch immediately. UNPLUG THE SAW. Check the saw blade to make sure it turns freely. If the blade is free, try to start the saw again. If the motor still does not start, refer to the TROUBLESHOOTING GUIDE.
- 3. If the tool suddenly stalls while cutting wood, release the trigger switch, unplug the tool and free the blade from the wood. The saw may

now be started and the cut finished.

- FUSES may "blow" or circuit breakers may trip frequently if:
 - a. MOTOR is overloaded –
 overloading can occur if you feed
 too rapidly or make too many
 start/stops in a short time.
 - b. LINE VOLTAGE is more than 10% above or below the nameplate voltage rating. For heavy loads, the voltage at motor terminals must equal the voltage specified on the nameplate.
 - c. IMPROPER or dull saw blades are used.
- 5. Most motor troubles may be traced to loose or incorrect connections, overload, low voltage or inadequate power supply wiring. Always check the connections, the load and supply circuit if the motor doesn't run well. Check minimum gauge for the length of cord you are using on the chart below

GUIDELINES FOR EXTENSION CORDS

Use a proper extension cord. 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 table below shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas. Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire with a 20 A time lag fuse or a #14 wire with a 15 A time lag fuse. NOTE: When using an extension cord on a circuit with a #14 wire, the extension cord must not exceed 25 feet in length. Before connecting the tool to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate, running at a lower voltage will damage the motor.

MINIMUM GAUGE FOR EXTENSION CORDS (AWG)							
(When using 120 volts only)							
Ampere Rating		Total length of Cord					
More Than	Not More Than	25ft.	50ft.	100ft.	150ft.		
0	6	18	16	16	14		
6	10	18	16	14	12		
10	12	16	16	14	12		
12	16	14	12	Not Red	commended		

CAUTION: In all cases make certain the receptacle in question is properly grounded. If you are not sure, have a certified electrician check the receptacle.

ACCESSORIES AND ATTACHMENTS

RECOMMENDED ACCESSORIES

A WARNING

- Use only accessories recommended for this miter saw. Follow instructions that accompany accessories. Use of improper accessories may cause hazards.
- The use of any cutting tool except 12 in. saw blades which meet the requirements under recommended accessories is prohibited. Do not use accessories such as shaper cutters or dado sets. Ferrous metal cutting and the use of abrasive wheels is prohibited.
- Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury.

ACCESSORIES

Visit your Sears Hardware Department or see the Sears Power and Hand Tool Catalog to purchase recommended accessories for this power tool.

A WARNING

- To avoid the risk of personal injury, do not modify this power tool or use accessories not recommended by Sears.
- Read warnings and conditions on your CARBIDE TIPPED SAW BLADE. Do not operate the saw

without the proper saw blade guard in place. Carbide is a very hard but brittle material. Care should be taken while mounting, using, and storing carbide tipped blades to prevent accidental damage. Slight shocks, such as striking the tip while handling, can seriously damage the blade. Foreign objects in the workpiece, such as wire or nails, can also cause tips to crack or break off. Before using, always visually examine the blade and tips for bent blade, cracks, breakage, missing or loose tips, or other damage. Do not use if damage is suspected. Failure to heed safety instructions and warnings can result in serious bodily injury.

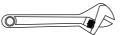
TOOLS NEEDED FOR ASSEMBLY

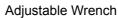
Supplied

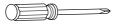


Blade Wrench

Not supplied

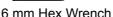




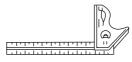


Phillips Screwdriver









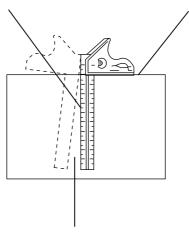
Combination Square

COMBINATION SQUARE MUST BE TRUE

Should not gap or overlap when square is flipped over (see dotted figure).

Draw light line on board along this edge.

Straight edge or a 3/4 in. board, this edge must be perfectly straight.



Should not gap or overlap when square flipped over (see dotted figure).

CARTON CONTENTS

UNPACKING YOUR MITER SAW

A WARNING

To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a source of power during unpacking and assembly. This cord must remain unplugged whenever you are working on the saw.

1. Remove the miter saw from the carton.

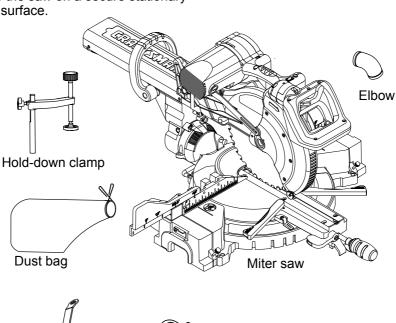
IMPORTANT: Do not lift miter saw by the trigger switch handle. It may cause misalignment. Lift machine by the built-in carry handle.

2. Place the saw on a secure stationary work surface.

 Separate all parts from the packing material. Check each one with the illustration to make certain all items are accounted for, before discarding any packing material.

▲ WARNING

If any part is missing or damaged, do not attempt to assemble the miter saw, or plug in the power cord until the missing or damaged part is correctly replaced. To avoid electric shock, use only identical replacement parts when servicing double insulated tools. Call 1-800-4-MY-HOME® for replacement parts.



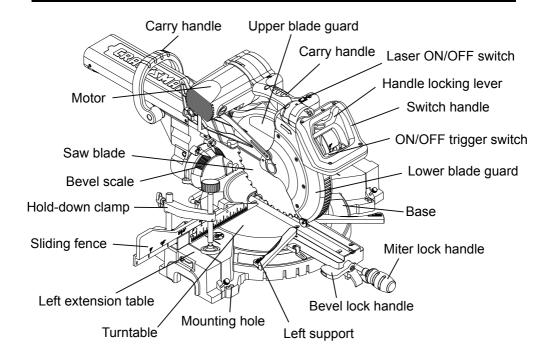


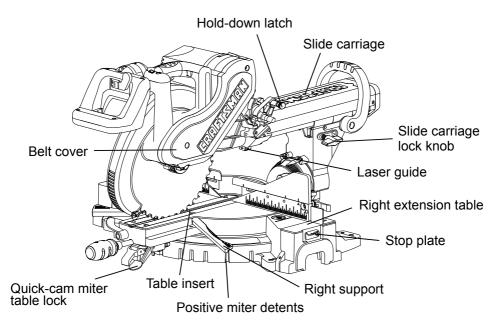


Power cord storage clip mounting hardware



KNOW YOUR SLIDING MITER SAW





GLOSSARY OF TERMS

AMPERAGE (AMPS) – A measure of the flow of electric current. Higher ratings generally means the tool is suited for heavier use.

ARBOR LOCK – Allows the user to keep the blade from rotating while tightening or loosening the arbor bolt during blade replacement or removal.

BASE – Supports the table, holds accessories and allows for workbench or leg set mounting.

BEVEL LOCKING HANDLE – Locks the miter saw at a desired bevel angle.

BEVEL SCALE – To measure the bevel angle of the saw blade 0° to 45° left.

CARBIDE TIPPED – Extremely hard steel pieces with sharp cutting edges fastened to cutting tools such as saw blades.

COVER PLATE SCREW – Loosen this screw and rotate the plate for access to the blade arbor bolt.

DOUBLE-INSULATED – A form of electrical protection featuring two separate insulation systems to help protect against electrical shock.

EXTENSION CORD – An electric cord used between power tools and outlets to extend the range of the tools. The more amerage your tool uses, the longer the distance, the larger the size of the wire needed in your extension cord.

EYE PROTECTION – Googles or spectacles intended to protect your

eyes. Eye protection should meet the requirements of ANSI Z.87.1 (USA) or CSA Z94.3-M88 (Canada).

FACE SHIELD – An impact resistant shield that helps to protect your face from chips, sparks, small debris. Should only be used in conjunction with additional eye protection.

FENCE – Helps to keep the workpiece from moving when sawing. Scaled to assist with accurate cutting.

GUARD – Protective devise that forms a barrier between a hazardous object such as a blade, wheel or cutter and the operator.

HOLD DOWN LATCH – Locks the miter saw in the lowered position for compact storage and transportation.

INSTRUCTION OR OPERATOR'S MANUAL – Booklet accompanying your power tool that describes the hazards and safe operation procedures, outlines basic tool operation, care and maintenance.

MITER HANDLE – Used to rotate the table, and to rotate the saw to a right or left cutting position.

MITER SCALE – Measures the miter angle 0° to 45° left and right.

MOUNTING HOLES – To mount the miter saw to a stable surface.

ON/OFF TRIGGER SWITCH – To start the tool, push the safety lock-off button and squeeze the trigger. Release the trigger to turn off the miter saw.

POSITIVE STOP LOCKING LEVER – Locks the miter saw at a preset positive stop for the desired miter angle.

SWITCH HANDLE – The switch handle contains the trigger switch and safety lock-off button. The blade is lowered into the workpiece by pushing down on the handle. The saw will return to its upright position when the handle is released.

WARNING LABELS – Read and understand for your own safety. Make sure all labels are present on machine and legible.

WRENCH STORAGE – Convenient storage to prevent misplacing the blade wrench.

WOODWORKING TERMS

ARBOR – The shaft on which a blade is mounted.

BEVEL CUT – An angle cut made through the face of the workpiece.

COMPOUND CUT – An angled cut to both the edge and face of a board, most common use is with crown molding.

CROSS CUT – A cut which runs across the board perpendicular to the grain.

FREEHAND – Performing a cut without using a fence (guide), hold down or other proper device to prevent the workpiece from twisting during the cutting operation.

HEEL – Misalignment of the blade.

KERF – The width of a saw cut, determined by the thickness and set of the blade.

KICKBACK – Sudden and unintended movement of the tool or workpiece. It is typically caused by binding or pinching of the workpiece

MITER CUT – A miter is a type of joint where the two parts to be joined are cut at an angle, and typically the finished joint forms a 90-degree angle. Also commonly spelled "mitre".

REVOLUTIONS PER MINUTE (RPM)

 The number of turns completed by a spinning object in one minute.

SAW BLADE PATH – The area of the workpiece or table top directly in line with the travel of the blade or the part of the workpiece which will be cut.

SET – The distance between two saw blade tips, bent outward in opposite directions to each other. The further apart the tips are, the greater the set.

THIN-KERF BLADE – Thinner than normal blades, remove less material, smaller kerfs (between .065 and .070). Blade thinness also may increase the heat generated while cutting.

WORKPIECE – The wood being cut. The surfaces of a workpiece are commonly referred to as faces, ends and edges.

ASSEMBLY AND ADJUSTMENTS

ESTIMATED ASSEMBLY TIME: 10~15 MINUTES

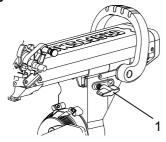


To avoid injury, do not connect this miter saw to the power source until it is completely assembled and adjusted, and you have read and understood this Operator's Manual.

UNLOCKING THE SLIDE CARRIAGE (FIG. A)

After removing the saw from the carton, loosen the slide carriage lock knob (1). When transporting or storing the miter saw, the slide carriage should always be locked in position. The slide carriage lock knob (1) is located on the right side of the slide carriage.

Fig. A



RELEASING CUTTING HEAD (FIG. B)

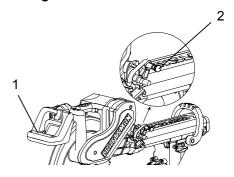


To avoid injury and damage to the saw, transport or store the miter saw with the cutting head locked in the down position. Never use the hold down latch to hold the cutting head in a down position for cutting operations.

Unlocking

- 1. Push down slightly on the switch handle (1).
- 2. Pull out the hold-down latch (2).
- 3. Allow the cutting head to rise to the up position.

Fig. B



Locking

When transporting or storing the miter saw, the cutting head should always be locked in the down position.

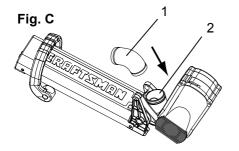
- 1. Push the cutting head down to its lowest position.
- 2. Push the hold-down latch (2) into the locking hole.

IMPORTANT: To avoid damage, never carry the miter saw by the switch handle, the cutting arm or the miter handle. ALWAYS use the designated carrying handles located on the top of the machine and in the back of the unit.

INSTALLING THE DUST COLLECTION ELBOW (FIG. C)

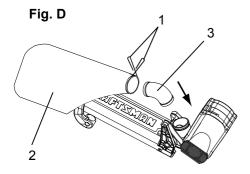
1. Install the end of the elbow (1) onto the exhaust port (2).

NOTE: The elbow can be used to attach either the dust bag or a vacuum hose to remove sawdust from the work area.



INSTALLING THE DUST BAG (FIG. D)

- 1. Squeeze the metal collar wings (1) of the dust bag (2).
- 2. Place the dust bag neck opening around the dust collection elbow (3), and release the metal collar.



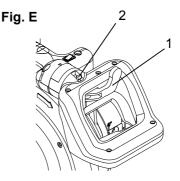
To empty the dust bag, squeeze the metal collar and remove from exhaust port. Open zipper on underside of bag and empty into waste container.

NOTE: Check frequently and empty bag before it gets full.

THREE POSITION ROTATING HANDLE (FIG. E)

The handle of the miter saw has been designed to rotate and lock at three different position stops; 45° left, 0°, and 45° right for operator convenience. To rotate the handle:

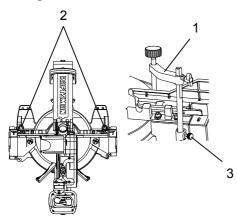
- Unlock the handle locking lever (1) by pulling it toward the front of the machine.
- 2. Pull the handle-locking latch (2) to the front of the saw and hold in position.
- Rotate the handle to the desired position stop and release the handle-locking latch. NOTE: After releasing the handle-locking latch, rotate the handle left and right to make sure the latch engages into the positive locking position.
- 4. Lock the handle locking lever (2) by pushing it IN toward the rear of the handle.



INSTALLING THE SAFETY HOLD-DOWN CLAMP (FIG. F)

- 1. Place the hold-down clamp assembly (1) in one of the mounting holes (2), located behind the fence.
- Thread the hold-down clamp knobs
 into the holes (2) located at the rear of the saw base.
- 3. Tighten the hold-down clamp knobs (3).

Fig. F

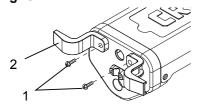


POWER CORD STORAGE CLIPS (FIG. G)

For convenience and to prevent damage to the power cord when the miter saw is not in use or is in transportation, the slide carriage has two clips on the rear for cord storage. To assembly these clips:

1. Attach each power cord storage clips (2) to the rear of slide-bar seat with one mounting screws (1).

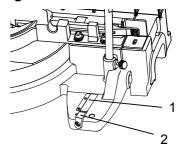
Fig. G



SAW BLADE WRENCH (FIG. H)

For convenient storage and prevention of loss, there is a clip (1) located at the left rear foot of the base for storing the blade wrench (2).

Fig. H



A WARNING

To avoid injury, disconnect the plug from the power source before performing any adjustments or repair.

NOTE: Your miter saw was adjusted at the factory. However, during shipment slight misalignment may have occurred. Check the following settings and adjust if necessary prior to using this miter saw.

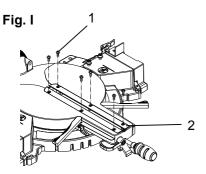
REMOVING AND INSTALLING THE TABLE INSERT (FIG. I)



To avoid injury:

- Always unplug the saw to avoid accidental starting. Remove all small pieces of material from the table cavity before performing any cuts. The table insert may be removed for this purpose, but always reattach the table insert prior to performing a cutting operation.
- Do not start the sliding compound miter saw without checking for interference between the blade and table insert. Damage could result to the blade, table insert or turntable if blade strike occurs during the cutting operation.

- To remove, loosen and remove the six screws (1) on the table inserts (2) with a Phillips screwdriver and remove the inserts.
- To install, reposition the table inserts, install the six screws and tighten.
- Check for blade clearance by moving the slide carriage through the full motion of the blade in the table slot.



MOUNTING THE MITER SAW (FIG. J, K)

A WARNING

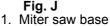
To avoid injury form unexpected saw movement:

- Disconnect the power cord from the outlet, and lock the cutting head in the lower position using the stop latch.
- Lock the slide carriage in place by tightening the slide carriage lock knob.
- To avoid back injury, lift the saw by using the designated carrying handles located on the top of the machine. When lifting, bend at your knees, not from your back.
- Never carry the miter saw by the power cord or by the switch handle. Carrying the tool by the

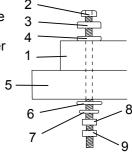
- power cord could cause damage to the insulation or the wire connections resulting in electric shock or fire.
- To avoid injury from flying debris, do not allow visitors to stand near the saw during any cutting operation.
- Support the saw on a level work surface.
- Bolt or clamp the saw to its support.

Mounting instructions

1. For stationary use, place the saw in the desired location, directly on a workbench where there is room for handling and proper support of the workpiece. The base of the saw has four mounting holes. Bolt the base of the miter saw (1) to the work surface (5), using the fastening method as shown in Fig J.



- 2. Hex head bolt
- Rubber washer
- 4. Flat washer
- WorkbenchFlat washer
- 7. Lockwasher
- 8. Hex nut
- 9. Jam nut

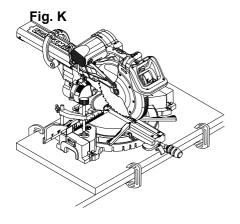


NOTE: Mounting hardware is not included with this tool. Bolts, nuts, washers & screws must be purchased separately.

For portable use, place the saw on a 3/4 in. thick piece of plywood. Bolt the base of the miter saw securely to the

plywood using the mounting holes on

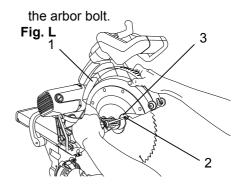
the base. Use C-clamps to clamp this mounting board to a stable work surface at the worksite. (Fig. K)



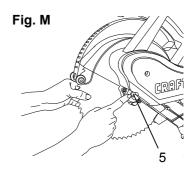
REMOVING OR INSTALLING THE BLADE

Removing Blade (Fig. L, M, N) WARNING

- To avoid injury from an accidental start, make sure the switch is in the OFF position and plug is not connected to the power source outlet.
- Only use a 12-inch diameter blade.
- 1. Unplug the saw from the outlet
- 2. Raise the miter saw to the upright position.
- Raise the lower clear plastic blade guard (1) to the uppermost position. (Fig. L)
- While holding the lower blade guard, loosen the cover plate screw
 with a Phillips screwdriver.
- 5. Rotate the cover plate (3) to expose the arbor bolt (4-Fig. N).
- 6. Place the blade end wrench over



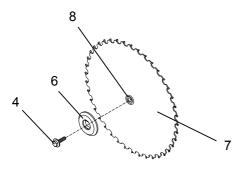
- Locate the arbor lock (5) on the motor, below the belt cover. (Fig. M)
- Press the arbor lock, holding it in firmly while turning the blade clockwise. The arbor lock will then engage and lock the arbor. Continue to hold the arbor lock, while turning the wrench clockwise to loosen the arbor bolt.



- Remove the arbor bolt (4), the arbor collar (6), and the blade (7).
 Do not remove the inner blade collar. (Fig. N)
- Raise the lower clear plastic blade guard (1) to the upright position (Fig. L) to remove the blade.

NOTE: Pay attention to the pieces removed, noting their position and direction they face. Wipe the blade collars clean of any sawdust before installing a new blade. Also, the 12 in. blade has a 1 in. arbor hole with a 5/8 in. reducer (8) to mount onto the saw.

Fig. N



INSTALLING BLADE (FIG. L, M, N)



Un-plug the miter saw before changing/installing the blade.

- Install a 12 in. blade with a 5/8 in. arbor (or a 1 in. arbor with a 5/8 in. reducer) making sure the rotation arrow on the blade matches the clockwise rotation arrow on the upper guard, and the blade teeth are pointing downward.
- Place the arbor collar (6) against the blade and on the arbor. Thread the arbor bolt (4) on the arbor. (Fig. N) in a counterclockwise direction. IMPORTANT: Make sure the flats of the blade collars are engaged with the flats on the arbor shaft. Also, the flat-side of the arbor collar must be placed against the blade.

- 3. Place the blade wrench on the arbor bolt.
- Press the arbor lock (5), holding it in firmly while turning the blade counterclockwise. When it engages, continue to press the arbor lock in, while tightening the arbor bolt securely. (Fig. M)
- 5. Rotate the cover plate (3) back to its original position until the slot in the cover plate engages with the cover plate screw (2). While holding the lower blade guard, tighten the screw with a Phillips screwdriver. (Fig. L) NOTE: The lower blade guard must be raised to the upright position to access the cover plate screw.
- Lower the clear retractable blade guard (1) and verify the operation of the guard does not bind or stick (Fig. L).
- Be sure the arbor lock is released so the blade turns freely by spinning the blade until the arbor lock disengages.

▲ WARNING

- To avoid injury, never use the saw without the cover plate secure in place. It keeps the arbor bolt from falling out if it accidentally loosens, and helps prevent the spinning blade from coming off the saw.
- Make sure the collars are clean and properly arranged. Lower the blade into the table and check for any contact with the metal base or the turn table.

ALIGNING THE LASER BEAM (FIG. O, P)

M WARNING

For your own safety, never connect the plug to power source outlet until all the adjustment steps are complete and you have read and understood the safety and operational instructions.

The laser beam must always be correctly aligned with the blade to ensure straight, even cutting. Your tool is equipped with the Laser Trac® cutting guide using Class II laser beam. The laser beam will enable to preview the saw blade path on the stock to be cut before starting the miter saw. This laser guide is powered by the transformed alternating current supply directly through the power lead. The saw must be connected to the power source and the laser on/off switch must be turned on for the laser line to show.

▲ WARNING

AVOID DIRECT EYE CONTACT

- Laser radiated when laser guide is turned on. Avoid direct eye contact. Always un-plug the miter saw from power source before making any adjustments.
- Laser Warning Label: Max output <1mW DIODE LASER: 630-670nm, Complies with 21CFR 1040.10 and 1040. 11.



- NOTE: All the adjustments for the operation of this machine have been completed at the factory.
 Due to normal wear and use, some occasional readjustments may be necessary.
- CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- CAUTION-The use of optical instruments with this product will increase eye hazard.
- Do not attempt to repair or disassemble the laser. If unqualified persons attempt to repair this laser product, serious injury may result. Any repair required on this laser product should be performed by authorized service center personnel.

A. Check Laser Beam Alignment.

- 1. Mark a 90° straight line across a board to serve as a "pattern line" to test laser alignment. Lay the board on the miter table.
- Plug saw into outlet and turn on the laser beam and line it up with the pattern line.
- Lower saw blade to pattern line and if blade is not flush with the pattern line, adjust as follows in procedure (B).

B. Adjusting the Angle of the Laser Trac® (Fig. P)

 Turn the laser element (2) in the desired direction to adjust the laser angle. NOTE: Do not adjust the laser more than 1/4 turn in either direction as this may damage the laser. There are two flat sides on the laser element where you can position an adjustable wrench for your adjustment.

C. Aligning The Laser Beam

- 1. Loosen only 1/2 turn at a time the four set screws (1).
- Adjust laser by turning the left side set screws clockwise to shift the laser line to the right. To shift the laser line to the left, turn the right side set screws 1/2 turn at a time.
- 3. Once alignment of the laser is achieved, tighten only 1/2 turn at a time the four set screws (1).

Fig. O

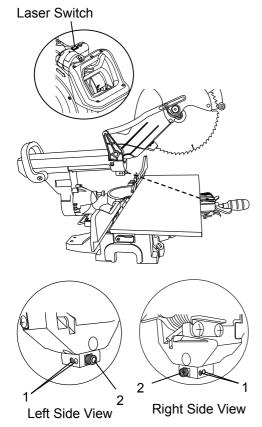
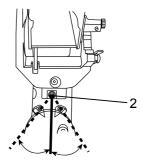


Fig. P

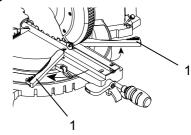


THE UPFRONT SUPPORTS ADJUSTMENT (FIG. Q, R)

Wide pieces need upfront supports (1).

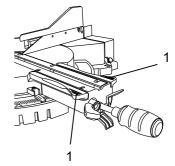
1. Rotate the two upfront supports (1) toward the rear of the saw.

Fig. Q



NOTE: These supports (1) should be placed into the 0 position as shown in Fig. R before transporting.

Fig. R



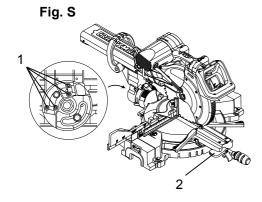
BEVEL STOP ADJUSTMENTS (FIG. S, T, U, V)



To avoid injury from unexpected starting or electrical shock, make sure the trigger is released and remove the power cord from the power source.

90°(0°) Bevel adjustment (Fig. S, T)

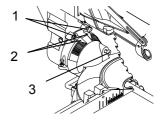
- 1. Loosen bevel lock handle (2) and tilt the cutting arm while pushing in the bevel detent pin (3-Fig. T) in against the 0° bevel stop. Tighten the bevel lock handle.
- 2. Place a combination square on the miter table with the rule against the table and heel of the square against the saw blade.
- 3. If the blade is not 0° to the miter table, loosen the four adjustment bolts (1) at the rear of the unit with a 5 mm hex wrench. Unlock the bevel lock handle (2) and adjust the cutting arm zero degrees to the table. Tighten the bevel lock handle and the four adjustment bolts after alignment is achieved.



Bevel Scale Indicators (Fig. T)

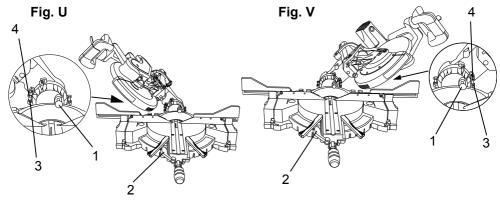
- When the blade is exactly 90°(0°) to the table, loosen the bevel indicator screws (1) using a #2 Phillips screwdriver.
- 2. Adjust bevel indicators (2) to the "0" mark on the bevel scale and retighten the screws.

Fig. T



45° Left Bevel Positive Stop Adjustment (Fig. U)

- Set the miter angle to zero degrees. Fully extend the sliding fence completely to the left then pull the bevel detent pin (1) toward the front of the machine. NOTE: When retracting the bevel detent pin, it may be required to shift the miter saw upper arm assembly to the left/right.
- 2. Loosen the bevel lock handle (2) and tilt the cutting arm completely to the left.
- 3. Using a combination square, check to see if the blade is 45° to the table.
- To adjust, tilt the cutting arm to zero degrees, loosen the locknut (3) and turn the bolt (4) in or out accordingly.
- 5. Tilt the cutting arm back to the left and recheck alignment.
- Repeat steps until the blade is 45° to the table. Once alignment is achieved, tighten the locknut (3) to secure the positive stop bolt.

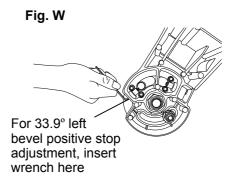


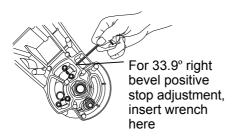
45° Right Bevel Positive Stop Adjustment (Fig. V)

- Set the miter angle to zero degrees. Fully extend the sliding fence completely to the right then pull the bevel detent pin (1) toward the front of the machine. NOTE: When retracting the bevel detent pin, it may be required to shift the miter saw upper arm assembly to the left/right.
- 2. Loosen the bevel lock handle (2) and tilt the cutting arm completely to the right.
- 3. Using a combination square, check to see if the blade is 45° to the table.
- To adjust, tilt the cutting arm to zero degrees, loosen the locknut (3) and turn the bolt (4) in or out accordingly.
- 5. Tilt the cutting arm back to the right and recheck alignment.
- Repeat steps until the blade is 45° to the table. Once alignment is achieved, tighten the locknut (3) to secure the positive stop bolt.

33.9° Left & Right Bevel Adjustment (Fig. W)

- 1. Set the miter angle to zero degree. Fully extend both sliding fences.
- Loosen the bevel lock handle and tilt cutting arm to the 33.9° left bevel positive stop by pushing in on the bevel detent pin toward the rear of the machine.
- Using a combination square, check to see if the blade is 33.9° to the table.
- 4. To adjust, turn the screw in or out with a wrench (from the locations shown below) until the blade is 33.9° to the table.
- 5. Repeat steps for the right bevel 33.9° bevel adjustment.





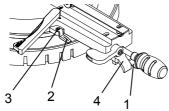
NOTE: View from rear of machine

MITER ANGLE ADJUSTMENT (FIG. X)

The sliding compound miter saw scale can be easily read, showing miter angles from 0° to 45° to the left, and 0° to 45° to the right. The miter saw table has nine of the most common angle setttings with positive stops at 0°, 15°, 22.5°, 31.6°, and 45°. These positive stops position the blade at the desired angle quickly and accurately. Follow the process below for quickest and most accurate adjustments.

- 1. Lift up on the quick-cam miter table lock (1) to unlock the table.
- Move the turntable while lifting up on the positive stop locking lever (4) to align the indicator (2) to the desired degree measurement.
- 3. Lock the table into position by pressing down on the quick-cam miter table lock (1).

Fig. X



Miter Scale Indicator (Fig. X)

1. Move the table to the 0° positive stop.

- Loosen the screw (3) that holds the indicator with a screwdriver.
- 3. Adjust the indicator (2) to the 0° mark and retighten screw.

ADJUSTING FENCE SQUARENESS (FIG. Y)

- Loosen the four fence locking bolts (1).
- 2. Lower the cutting arm and lock in position.
- 3. Using a square (3), lay the heel of the square against the blade and the ruler against the fence (2) as shown.
- 4. Adjust the fence 90° to the blade and tighten the four fence locking bolts.
 CAUTION: If the saw has not been used recently, recheck blade squareness to the fence and readjust if needed.
- After fence has been aligned, using a scrap piece of wood, make a cut at 90° then check squareness on the piece. Readjust if necessary.

Fig. Y 1 2 1

POSITIVE STOP MITER ANGLE ADJUSTMENT (FIG. Z)

- 1. Unlock the miter table by lifting up on the quick-cam miter table lock (1).
- 2. While raising the positive stop locking lever (2) up, grasp the miter

- handle and rotate the miter table left or right to the desired angle.
- Release the positive stop locking lever and set the miter at the desired angle making sure the lever snaps into place. NOTE: The lever will only lock into place at one of the ten positive stops.
- 4. Once angle is achieved, press down on the quick-cam miter table lock (1).

Quick-cam Miter Table Lock Operation (Fig. Z)

If miter angles required are NOT one of the ten positive stops noted above, the miter table can be locked at any angle between these positive stops by using the quick-cam miter table lock.

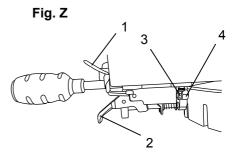
- 1. Unlock the miter table by lifting up on the quick-cam miter table lock (1).
- 2. While holding the positive stop locking lever (2) up, grasp the miter handle and move the miter table left or right to the desired angle.
- 3. Release the positive stop locking lever.
- Press down on the quick-cam miter table lock (1) until it locks the miter table in place.

NOTE: The quick-cam miter table lock should lock the table and prevent it from moving. If adjustment is needed, see next step.

Quick-cam Miter Table Lock Adjustment (Fig. Z)

- 1. Press down and lock the miter quickcam table lock .
- Using a 13 mm wrench, turn the stop nut (4) to the left as shown to extend the locking arm against the base of the miter saw.
- Test the quick cam miter lock to verify it locks the table into position securely.

4. Turn the lock nut (3) to the right as shown to lock the miter locking mechanism into place.



SETTING CUTTING DEPTH (FIG. AA)

The depth of cut can be preset for even and repetitive shallow cuts.

- Adjust the cutting head down (See CUTTING HEAD section) until the teeth of the blade are at the desired depth.
- 2. While holding the upper arm in that position, turn the stop knob (1) until it touches the stop plate (2).
- Recheck the blade depth by moving the cutting head front to back through the full motion of a typical cut along the control arm.

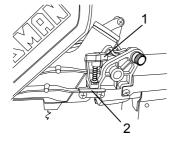
Adjusting Cutting Depth (Fig. AA)

The maximum depth travel of the cutting head was set at the factory. Check to see that the blade does not extend more than 1/4 in. below the table insert, and does not touch the control arm throat or any part of the base or table. If the maximum depth needs readjusting:

- 1. Loosen the stop knob (1) while moving the cutting head down until the blade extends just 1/4 in. below the table insert.
- 2. Adjust the stop knob (1) to touch the stop plate (2).
- 3. Recheck the blade depth by moving

the cutting head front to back through the full motion of a cut along the control arm. If the blade touches the inside of the control arm, readjust the setting.

Fig. AA



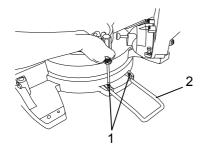
SLIDING THE REAR EXTENSION SUPPORT BAR (FIG. BB)



To avoid possible personal injury or damage to the miter saw due to tipping, do not operate the saw without the Rear Extension Support Bar.

Loosen the two screws (1) and extend the rear extension support bar (2) by sliding it out to match position, tighten the two screws.

Fig. BB



OPERATION

SAFETY INSTRUCTIONS FOR BASIC SAW OPERATION

BEFORE USING THE MITER SAW

A WARNING

To avoid mistakes that could cause serious, permanent injury, do not plug the tool in until the following steps are completed:

- Completely assemble and adjust the saw, following the instructions. (ASSEMBLY AND ADJUSTMENTS)
- Learn the use and function of the ON/OFF switch, lock-off switch, upper and lower blade guards, hold down latch, bevel lock handle and cover plate screws.
- Review and understand all safety instructions and operating procedures in this Operator's Manual. (SAFETY & OPERATIONS)
- Review the MAINTENANCE and TROUBLESHOOTING GUIDE for your miter saw.
- To avoid injury or possible death from electrical shock:
 Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging your miter saw. (ELECTRICAL REQUIREMENTS AND SAFETY)

BEFORE EACH USE INSPECT YOUR SAW.

Disconnect the miter saw.
 To avoid injury from accidental starting, unplug the saw before any adjustments, including set-up and blade changes.

- Compare the direction of rotation arrow on the guard to the direction arrow on the blade. The blade teeth should always point downward at the front of the saw.
- Tighten the arbor bolt.
- Tighten the cover plate screw.
- Check for damaged parts. Check for:
 - Alignment of moving parts
 - Damaged electric cords
 - Binding of moving parts
 - Mounting holes
 - Function of arm return spring and lower guard: Push the cutting arm all the way down, then let it rise until it stops.
 The lower guard should fully close. Follow instructions in TROUBLESHOOTING GUIDE for adjustment if necessary.
 - Other conditions that may affect the way the miter saw works.
- Keep all guards in place, in working order and proper adjustment. If any part of this miter saw is missing, bent, damaged or broken in any way, or any electrical parts don't work, turn the saw off and unplug it.
- Replace bent, damaged, missing or defective parts before using the saw again.
- Maintain tools with care. Keep the miter saw clean for best and safest performance. Follow instructions for lubricating. Do not put lubricants on the blade while it is spinning.
- Remove adjusting wrench from the tool before turning it on.
- To avoid injury from jams, slips,

or thrown pieces, use only recommended accessories.

RECOMMENDED ACCESSORIES

- Consult the ACCESSORIES

 and ATTACHMENTS section
 of this Operators Manual for
 recommended accessories. Follow
 the instructions that come with the
 accessory. The use of improper
 accessories may cause risk of
 injury to persons.
- Choose the correct 12 in. diameter blade for the material and the type of cutting you plan to do. Do not use thin kerf blades.
- Make sure the blade is sharp, undamaged and properly aligned.
 With the saw unplugged, push the cutting arm all the way down.
 Manually spin the blade and check for clearance. Tilt the power-head to a 45° bevel and repeat the test.
- Make sure the blade and arbor collars are clean.
- Make sure all clamps and locks are tight and there is no excessive play in any parts.

KEEP YOUR WORK AREA CLEAN

Cluttered areas and benches invite accidents.



To avoid burns or other fire damage, never use the miter saw near flammable liquids, vapors, or gases.

- Plan ahead to protect your eyes, hands, face and ears.
- Know your miter saw. Read and understand the Operator's Manual and labels affixed to the tool.
 Learn its application and limitations as well as the specific potential hazards peculiar to this tool. To

- avoid injury from accidental contact with moving parts, do not do layout, assembly, or setup work on the miter saw while any parts are moving.
- Avoid accidental starting, make sure the trigger switch is disengaged before plugging the miter saw into a power outlet.

PLAN YOUR WORK

 Use the right tool. Do not force a tool or attachment to do a job it was not designed to do. Use a different tool for any workpiece that can' t be held in a solidly braced, fixed position.

CAUTION: This machine is not designed for cutting masonry, masonry products, ferrous metals (steel, iron, and iron-based metals.) Use this miter saw to cut only wood, wood-like products, or nonferrous metals. Other material may shatter, bind the blade, or create other dangers. Remove all nails that may be in the workpiece to prevent sparking that could cause a fire. Remove dust bag when cutting nonferrous metals.

DRESS FOR SAFETY

foreign objects into the eyes. This can result in permanent eye damage. Everyday eyeglasses have only impact resistant lenses and are not safety glasses. Glasses or goggles not in compliance with ANSI Z87.1 could seriously injure you when they break.

Any power tool can throw

 Do not wear loose clothing, gloves, neckties or jewelry (rings, watches).
 They can get caught and draw you into moving parts.

- Wear non-slip footwear.
- Tie back long hair.
- Roll long sleeves above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs when using any miter saw.
- For dusty operations, wear a dust mask along with safety goggles.

INSPECT YOUR WORKPIECE

Make sure there are no nails or foreign objects in the part of the workpiece being cut.

Plan your work to avoid small pieces that may bind, or that are too small to clamp and get a solid grasp on. Plan the way you will grasp the workpiece from start to finish. Avoid awkward operations and hand positions.

A sudden slip could cause your fingers or hand to move into the blade.

DO NOT OVER-REACH

Keep good footing and balance. Keep your face and body to one side, out of the line of a possible kickback. NEVER stand in the line of the blade.

Never cut freehand:

- Brace your workpiece firmly against the fence and table stop so it will not rock or twist during the cut.
- Make sure there is no debris between the workpiece and the table or fence.
- Make sure there are no gaps between the workpiece, fence and table that will let the workpiece shift after it is cut.
- Keep the cut off piece free to move sideways after it is cut off. Otherwise, it could get wedged against the blade and thrown violently.
- Only the workpiece should be on the saws table.

 Secure work. Use clamps or a vise to help hold the work when it's practical.

USE EXTRA CAUTION WITH LARGE OR ODD SHAPED WORKPIECES.

- Use extra supports (tables, sawhorses, blocks, etc.) for workpieces large enough to tip.
- Never use another person as a substitute for a table extension, or as an additional support for a workpiece that is longer or wider than the basic miter saw table, or to help feed, support, or pull the workpiece.
- Do not use this saw to cut small pieces. If the workpiece being cut would cause your hand or fingers to be within 8-3/4 inches of the saw blade the workpiece is too small. Keep hands and fingers out of the "no hands zone" area marked on the saws table.
- When cutting odd shaped workpieces, plan your work so it will not bind in the blade and cause possible injury. Molding, for example, must lie flat or be held by a fixture or jig that will not let it move when cut.
- Properly support round material such as dowel rods, or tubing, which have a tendency to roll when cut, causing the blade to "bite".

A WARNING

To avoid injury, follow all applicable safety instructions, when cutting non-ferrous metals:

 Use only saw blades specifically recommended for non-ferrous metal cutting.

- Do not cut metal workpieces that must be hand held. Clamp workpieces securely.
- Cut non-ferrous metals only if you are under the supervision of an experienced person and the dust bag has been removed from the saw.

WHEN SAW IS RUNNING



Do not allow familiarity from frequent use of your miter saw to result in a careless mistake. A careless fraction of a second is enough to cause a severe injury. Before cutting, if the saw makes an unfamiliar noise or vibrates, stop immediately. Turn the saw OFF. Unplug the saw. Do not restart until finding and correcting the problem.

BODY AND HAND POSITION (FIG. CC)

Never place hands near





the cutting area. Proper positioning of your body and hands when operating the miter saw will make cutting easier and safer. Keep children away. Keep all visitors at a safe distance from the miter saw. Make sure bystanders are clear of the saw and workpiece. Don't force the saw. It will do the job better and safer at its designed rate.

Starting a cut:

Place hands at least 8-3/4 in. away from the path of the blade - out of the "no-hands zone". (Fig. CC)

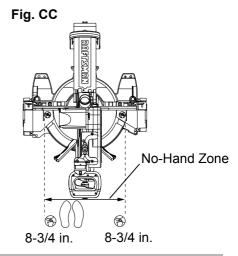
- Hold workpiece firmly against the fence to prevent movement toward the blade.
- With the power switch OFF, bring the saw blade down to the workpiece to see the cutting path of the blade.
- Press in lock-off switch in trigger switch handle.
- Squeeze trigger switch to start saw.
- Lower blade into workpiece with a firm downward motion.

Finishing a cut:

- Hold the cutting arm in the down position.
- Release trigger switch and wait for all moving parts to stop before moving your hands and raising the cutting arm.
- If the blade does not stop within 10 seconds, unplug the saw and follow the instructions in TROUBLESHOOTING GUIDE section.

Before freeing jammed material:

- Release trigger switch.
- Wait for all moving parts to stop.
- Unplug the miter saw.

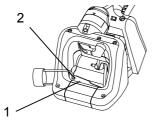


TO TURN THE SAW ON (FIG. DD) Depress the trigger switch (1) to turn on the miter saw started.

NOTE: Make the ON/OFF switch childproof. Insert a padlock, or chain with padlock, through the holes (2) in the trigger switch, locking the tool's switch, preventing children and other unauthorized users from turning the machine on.

The miter saw is equipped with an automatic blade brake. When the trigger switch is released, the electric blade brake will stop the blade within approximately 10 seconds.

Fig. DD



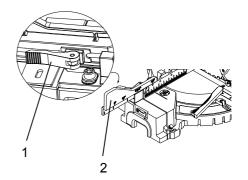
SLIDING FENCE (FIG. EE)

▲ WARNING

extended to the left or right when making bevel cuts. The sliding fence noted three bevel angles where the user must adjust the fences to match the degree of the bevel cut. Failure to extend the sliding fence will not allow enough space for the blade to pass through which could result in serious injury. At extreme miter or bevel angles the saw blade may also contact the fence.

- The right side sliding fence must be removed when making any right bevel angle cuts greater than 35° in combination with any right hand miter angle. This fence must also be removed whenever a 45° bevel angle is desired with a miter angle greater than 22.5°.
- Unlock the fence cam locking lever
 by pushing it toward the rear of the machine.
- 2. Extend the fence (2) by sliding it out to match the degree of the bevel cut. Lock the fence cam locking lever by pushing it IN toward the fence. **NOTE:** When transporting the saw, always secure the sliding fence in the collapsed position (toward the saw blade).

Fig. EE



REMOVING OR INSTALLING THE RIGHT SLIDING FENCE

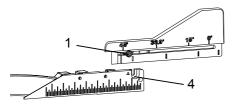
Removing (Fig. FF)

- Unlock the fence cam-locking lever by pushing it out toward the rear of the machine.
- 2. Lift up on the sliding fence to remove it from the saw.

Installing

- 1. Place the sliding fence onto the miter saw fence aligning the nut (1) with the slot (4).
- To lock the sliding fence, push the cam-locking lever in toward the front of the machine.

Fig. FF



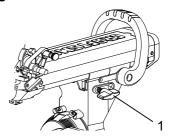
SLIDING CARRIAGE SYSTEM (FIG. GG)

▲ WARNING

To reduce the risk of injury, return carriage to the full rear position after each crosscut operation.

- For a chop cutting operations on small workpieces, slide the cutting head assembly completely toward the rear of the unit and tighten the carriage lock knob (1).
- 2. To cut wide boards up to 12-1/4 in., the carriage lock knob should be loosened to allow the cutting head to slide freely.

Fig. GG



▲ WARNING

To avoid injury from materials being thrown, always unplug the saw to avoid accidental starting, and remove small pieces of material from the table cavity. The table insert may be removed for this purpose, but always reattach the table insert prior to performing a cutting operation.

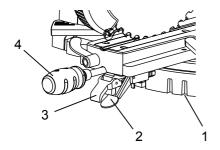
MITER CUT (FIG. HH)

The sliding compound miter saw is equipped with ten positive miter stops (1) on the saw base. The locations are at 0, 15, 22.5, 31.6 and 45 degrees left and right, and 60° right. These locations represent the most common angles for cutting operation. To make a miter cut:

- Unlock the miter table by lifting up on the miter quick-cam table lock (2).
- While raising the positive stop locking lever (3) up, grasp the miter handle (4) and rotate the miter table left or right to the desired angle.
- Release the positive stop locking lever and set the miter at the desired angle making sure the lever snaps into place. NOTE: The lever will only lock into place at one of the ten positive stops.

- Once the desired miter angle is achieved, press down on the quick cam miter table lock to secure the table into position.
- If the miter angle desired is NOT one of the ten positive stops noted above, simply lock the table at the desired angle by pressing down on the quick-cam miter table lock (2).

Fig. HH



BEVEL CUT (FIG. II)

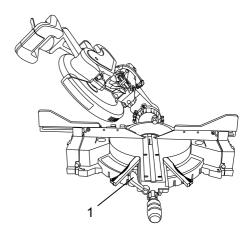
▲ WARNING

- The sliding fence must be extended to the left or right when making bevel cuts. The sliding fence noted three bevel angles where the user must adjust the fences to match the degree of the bevel cut. Failure to extend the sliding fence will not allow enough space for the blade to pass through which could result in serious injury. At extreme miter or bevel angles the saw blade may also contact the fence.
- The right side sliding fence must be removed when making any right bevel angle cuts greater than 35° in combination with any right hand miter angle. This

fence must also be removed whenever a 45° bevel angle is desired with a miter angle greater than 22.5°.

Tilt the cutting head to the desired angle as shown on the bevel scale. The blade can be positioned at any angle, from a 90° straight cut (0° on the scale) to a 45° left and right bevel. Tighten the bevel lock handle (1) by pushing down to lock the cutting head in position. Bevel positive stops are provided at 0°, 33.9° and 45°.

Fig. II



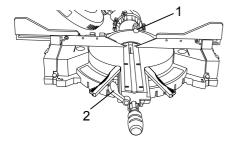
NOTE: The saw comes with a 33.9° bevel detent pin for setting up crown molding cuts when the angle of the walls equals 90°.

33.9° BEVEL DETENT PIN FOR CROWN MOULDINGS (FIG. JJ)

NOTE: A bevel detent pin is incorporated into this machine for quick bevel adjustments when the desired bevel angle is 33.9°.

- 1. Push the bevel detent stop pin (1) in toward the front of the machine.
- 2. Loosen the bevel lock handle (2).
- Rotate the cutting head until the bevel detent pin stops the bevel angle at 33.9° on the bevel scale.
- 4. Tighten the bevel lock handle before you make your cut.

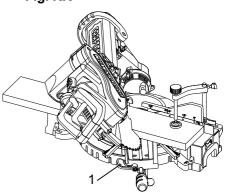
Fig. JJ



COMPOUND CUT (FIG. KK)

- Extending the fence by sliding it out to the required location or remove the right sliding fence if necessary. See "SLIDING FENCE or REMOVE SLIDING FENCE".
- 2. Set the desired bevel angle using the bevel lock handle (1).
- Set the desired miter angle and lock into position. See "MITER CUT".

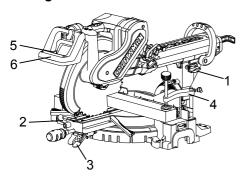
Fig. KK



CHOP CUTTING NARROW BOARDS-90° CROSSCUT (FIG. LL)

- 1. For a chop cutting operations on small workpieces, slide the cutting head assembly completely toward the rear of the unit and tighten the carriage lock knob (1).
- Position the cutting head to the 0° bevel position and lock the bevel lock handle (2).
- 3. Position the table to the 0° miter angle and lock the quick cam miter table lock (3).
- 4. Position the workpiece on the table and against the fence. Use a hold down clamp (4) attached to the base, whenever possible.
- Pull the trigger (5), turning on the saw. Lower the blade by pushing the handle (6) down into the workpiece with slow and even pressure.
- When the cut is complete, release the switch and allow the blade to stop before raising the cutting head assembly.

Fig. LL



SLIDE CUTTING WIDE BOARDS UP TO 12-1/4 IN. WIDE (FIG. MM)



To avoid injury:

- Never pull the cutting head assembly and spinning blade toward you during the cut. The blade may try to climb up on the top of the workpiece, causing the cutting assembly and spinning blade to kick back, forcefully. The cutting head assembly should be drawn back completely then pushed forward when sawing.
- Let the blade reach full speed before cutting. This will help reduce the risk of a thrown workpiece.
- Extending the fence by sliding it out to the required location or remove the right sliding fence if necessary. See "SLIDING FENCE".

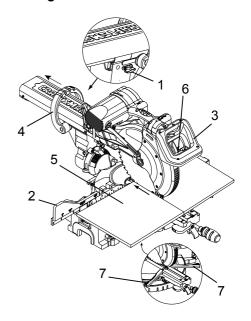
CUT WIDE BOARDS (FIG. MM)

- 1. Rotate the two upfront supports (7) toward the rear of the saw.
- Unlock the carriage lock knob

 and allow the cutting head
 assembly to move freely.

- 3. Set both the desired bevel angle and/or the miter angle and lock into position.
- 4. If bevel cutting, set both the left and right sliding fences (2) to their proper location.
- 5. Use a hold down clamp to secure the workpiece.
- 6. Grasp the switch handle (3) and pull the carriage (4) forward until the center of the saw blade is over the front of the workpiece (5).
- 7. Pull the trigger (6) to turn the saw on.
- When the saw reaches full speed, push the saw handle down, slowly, cutting through the leading edge of the workpiece.
- 9. Slowly move the saw handle toward the fence, completing the cut.
- Release the trigger and allow the blade to stop spinning before allowing the cutting head to raise.

Fig. MM



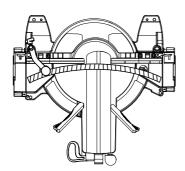
CUTTING BOWED MATERIAL (FIG. NN)



To avoid injury from materials being thrown, always unplug the saw to avoid accidental starting and remove small pieces of material from the table cavity. The table insert may be removed for this purpose, but always reattach table insert prior to performing a cutting operation.

A bowed workpiece must be positioned against the fence and secured with a clamping device as shown before cutting. Do not position workpiece incorrectly or try to cut the workpiece without the support of the fence. This will cause the blade to bind and could result in personal injury.

Fig. NN

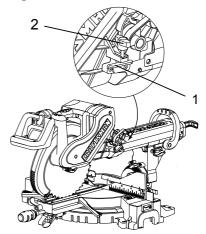


ROUGH CUTTING A DADO (FIG. 00)

- Mark lines identifying the width and depth of the desired cut on the workpiece and position on the table so the inside tip of the blade is positioned on the line. Use a hold down clamp to secure the workpiece.
- Lower the cutting head so the tip of the blade touches the top surface workpiece at the marked line.

- 3. While holding the upper arm in position, turn the stop knob (2) until it touches the stop plate (1).
- 4. Cut two parallel grooves as shown below.

Fig. 00



Cut these grooves with saw

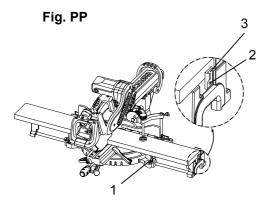


Use a chisel to cut out the middle

TELESCOPING WORKPIECE SUPPORT & REPETITIVE CUTTING USING THE STOP PLATE (FIG. PP)

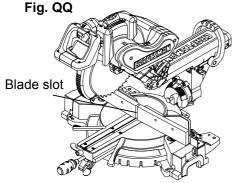
Long pieces need extension table support.

- Loosen the knob (1) then slide the extension table to desired position and tighten the knob.
- The stop plate is designed for use during repetitive cutting. Only use one stop plate at a time. Rotate the stop plate (3) to vertical position, and retighten the locking bolt. If stop plate will not rotate, loosen the locking bolt (2) 1/4 turn.



AUXILARY WOOD FENCE (FIG. QQ)

When making multiple or repetitive cuts that result in cut-off pieces of one inch or less, it is possible for the saw blade to catch the cut-off piece and throw it out of the saw or into the blade guard and housing, possibly causing damage or injury. To minimize this an auxiliary wood fence can be mounted to your saw. Holes are provided in the saw fence to attach an auxiliary wood fence (this provides additional depth of cut). This fence should be constructed of straight auxiliary wood approximately 3/4 in. thick by 1-1/2 in. high by 22 in. long. Attach the wood fence securely and make a full depth cut to make a blade slot. Check for interference between the wood fence and the lower blade guard. Adjust if necessary.



CHANGING THE BELT (FIG. RR, SS)

Unplug your saw.

- 1. Loosen the bolts (1) and remove the belt cover.
- Turn the screw (2) anti-clockwise with a hex wrench to move the motor to forward.
- 3. Remove and replace the belt.
- 4. Turn the screw (2) clockwise with a hex wrench to move the motor to rearward. Do not over tighten.
- 5. Replace the belt cover and tighten the bolts.

Fig. RR

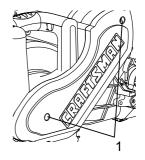
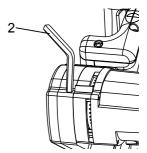


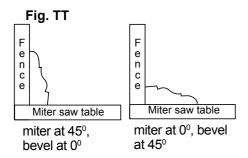
Fig. SS



CUTTING BASE MOLDING (FIG. TT)

Base moldings and many other moldings can be cut on a compound miter saw. The setup of the saw depends on molding characteristics and application, as shown. Perform practice cuts on scrap material to achieve best results:

- Always make sure moldings rest firmly against fence and table. Use hold-down, crown molding vise or C-clamps, whenever possible, and place tape on the area being clamped to avoid marks.
- Reduce splintering by taping the cut area prior to making the cut. Mark the cut line directly on the tape.
- Splintering typically happens due to an incorrect blade application and thinness of the material.



NOTE: Always perform a dry run cut so you can determine if the operation being attempted is possible before power is applied to the saw.

CUTTING CROWN MOLDING (FIG. UU, VV)



Your compound miter saw is suited for the difficult task of cutting crown molding. To fit properly, crown molding must be compound-mitered with extreme accuracy. The two surfaces on a piece of crown molding that fit flat against the ceiling and wall are at

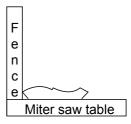
angles that, when added together, equal exactly 90°.

Most crown molding has a top rear angle (the section that fits flat against the ceiling) of 52° and a bottom rear angle (the section that fits flat against the wall) of 38°.

In order to accurately cut crown molding for a 90° inside or outside corner, lay the molding with its broad back surface flat on the saw table.

When setting the bevel and miter angles for compound miters, remember that the settings are interdependent; changing one changes the other, as well.

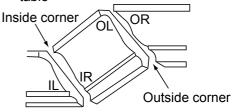
Fig. UU



Bevel/Miter Settings

Fig. VV

Settings for standard crown molding lying flat on compound miter saw table



Compound cut crown moldings

NOTE: The chart below references a compound cut for crown molding ONLY WHEN THE ANGLE BETWEEN THE WALLS EQUALS 90°.

Bevel/Miter Settings

KEY	BEVEL	MITER	TYPE OF CUT
	SETTING	SETTING	
	•		Inside corner-Left side
IL	33.9°	31.6° Right	Position top of molding against fence.
			2. Miter table set at RIGHT 31.6°.
			3. LEFT side is finished piece.
			Inside corner-Right side
IR	33.9°	31.6° Left	Position bottom of molding against fence.
			2. Miter table set at LEFT 31.6°.
			3. LEFT side is finished piece.
			Outside corner-Left side
OL	33.9°	31.6° Left	Position bottom of molding against fence.
			2. Miter table set at LEFT 31.6°.
			3. RIGHT side is finished piece.
			Outside corner-Right side
OR	33.9°	31.6° Left	Position top of molding against fence.
			2. Miter table set at RIGHT 31.6°.
			3. RIGHT side is finished piece.

CROWN MOLDING CHART

Compound Miter saw Miter and bevel Angle settings Wall to Crown Molding Angle

			9	
	52/38° C	rown Molding	45/45° Cro	wn Molding
Angle Between Walls	Miter Setting	Bevel Setting	Miter Setting	Bevel Setting
67	42.93	41.08	46.89	36.13
68	42.39	40.79	46.35	35.89
69	41.85	40.79	45.81	35.64
70	41.32	40.20	45.28	35.40
71	40.79	39.90	44.75	35.40
72	40.79		44.73	34.89
73		39.61		34.64
	39.76	39.30	43.70	
74 75	39.25 38.74	39.00	43.18 42.66	35.38 34.12
		38.69		
76	38.24	38.39	42.15	33.86
77	37.74	38.08	41.64	33.60
78	37.24	37.76	41.13	33.33
79	36.75	37.45	40.62	33.07
80	36.27	37.13	40.12	32.80
81	35.79	36.81	39.62	32.53
82	35.31	36.49	39.13	32.25
83	34.83	36.17	38.63	31.98
84	34.36	35.85	38.14	31.70
85	33.90	35.52	37.66	31.42
86	33.43	35.19	37.17	31.34
87	32.97	34.86	36.69	30.86
88	32.52	34.53	36.21	30.57
89	32.07	34.20	35.74	30.29
90	31.62	33.86	35.26	30.00
91	31.17	33.53	34.79	29.71
92	30.73	33.19	34.33	29.42
93	30.30	32.86	33.86	29.13
94	29.86	32.51	33.40	28.83
95	29.43	32.17	32.94	28.54
96	29.00	31.82	32.48	28.24
97	28.58	31.48	32.02	27.94
98	28.16	31.13	31.58	27.64
99	27.74	30.78	31.13	27.34
100	27.32	30.43	30.68	27.03
101	26.91	30.08	30.24	26.73
102	26.50	29.73	29.80	26.42
103	26.09	29.38	29.36	26.12
104	25.69	29.02	28.92	25.81
105	25.29	28.67	28.48	25.50
106	24.89	28.31	28.05	25.19
107	24.49	27.96	27.62	24.87
108	24.10	27.59	27.19	24.56
109	23.71	27.23	26.77	24.24
110	23.32	26.87	26.34	23.93
111	22.93	26.51	25.92	23.61
112	22.55	26.15	25.50	23.29
113	22.17	25.78	25.08	22.97
114	21.79	25.42	24.66	22.66
115	21.42	25.05	24.25	22.33
116	21.04	24.68	23.84	22.01
117	20.67	24.31	23.43	21.68
118	20.30	23.94	23.02	21.36
119	19.93	23.57	22.61	21.03
120	19.57	23.20	22.21	20.70
121	19.20	22.83	21.80	20.38
122	18.84	22.46	21.40	20.05
123	18.48	22.09	21.00	19.72

	52/38° Cro	52/38° Crown Molding		45/45° Crown Molding	
Angle	Miter	Bevel	Miter	Bevel	
Between	Setting	Setting	Setting	Setting	
Walls	_		, and the second		
124	18.13	21.71	20.61	19.39	
125	17.77	21.34	20.21	19.06	
126	17.42	20.96	19.81	18.72	
127	17.06	20.59	19.42	18.39	
128	16.71	20.21	19.03	18.06	
129	16.37	19.83	18.64	17.72	
130	16.02	19.45	18.25	17.39	
131	15.67	19.07	17.86	17.05	
132	15.33	18.69	17.48	16.71	
133	14.99	18.31	17.09	16.38	
134	14.66	17.93	16.71	16.04	
135	14.30	17.55	16.32	15.70	
136	13.97	17.17	15.94	15.36	
137	13.63	16.79	15.56	15.02	
138	13.30	16.40	15.19	14.62	
139	12.96	16.02	14.81	14.34	
140	12.63	15.64	14.43	14.00	
141	12.30	15.25	14.06	13.65	
142	11.97	14.87	13.68	13.31	
143	11.64	14.48	13.31	12.97	
144	11.31	14.09	12.94	12.62	
145	10.99	13.71	12.57	12.29	
146	10.66	13.32	12.20	11.93	
147	10.34	12.93	11.83	11.59	
148	10.01	12.54	11.46	11.24	
149	9.69	12.16	11.09	10.89	
150	9.37	11.77	10.73	10.55	
151	9.05	11.38	10.36	10.20	
152	8.73	10.99	10.00	9.85	
153	8.41	10.60	9.63	9.50	
154	8.09	10.21	9.27	9.15	
155	7.77	9.82	8.91	8.80	
156	7.46	9.43	8.55	8.45	
157	7.14	9.04	8.19	8.10	
158	6.82	8.65	7.83	7.75	
159	6.51	8.26	7.47	7.40	
160	6.20	7.86	7.11	7.05	
161	5.88	7.47	6.75	6.70	
162	5.57	7.08	6.39	6.35	
163	5.26	6.69	6.03	6.00	
164	4.95	6.30	5.68	5.65	
165	4.63	5.90	5.32	5.30	
166	4.32	5.51	4.96	4.94	
167	4.01	5.12	4.61	4.59	
168	3.70	4.72	4.25	4.24	
169	3.39	4.33	3.90	3.89	
170	3.08	3.94	3.54	3.53	
171	2.77	3.54	3.19	3.10	
172	2.47	3.15	2.83	2.83	
173	2.47	2.75	2.48	2.63	
173	1.85	2.75	2.40	2.47	
174	1.54	1.97	1.77	1.77	
175	1.54	1.58	1.77	1.77	
176	0.92	1.58	1.41	1.41	
178	0.62	0.79	0.71	0.71	
179	0.31	0.39	0.35	0.35	

MAINTENANCE

MAINTENANCE



▲ DANGER

To avoid injury, never put lubricants on the blade while it is spinning.



To avoid fire or toxic reaction, never use gasoline, naphtha acetone. lacquer thinner or similar highly volatile solvents to clean the miter saw.



A WARNING

To avoid injury from unexpected starting or electrical shock, unplug the power cord before working on the saw.



▲ WARNING

For your safety, this saw is doubleinsulated. To avoid electrical shock, fire or injury, use only parts identical to those identified in the parts list. Reassemble exactly as the original assembly to avoid electrical shock.

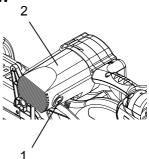
REPLACING CARBON BRUSHES (FIG. WW)

Replace both carbon brushes when either has less than 1/4 in. length of carbon remaining, or if the spring or wire is damaged or burned. To inspect or replace brushes, first unplug the saw. Then remove the black plastic cap (1) on the side of the motor (2). Remove the cap cautiously, because it is springloaded. Then pull out the brush and replace. Replace for the other side. To reassemble reverse the procedure. The ears on the metal end of the assembly go in the same hole

the carbon part fits into. Tighten the cap snugly, but do not overtighten.

NOTE: To reinstall the same brushes. first make sure the brushes go back in the way they came out. This will avoid a break-in period that reduces motor performance and increases wear.

Fig. WW



LOWER BLADE GUARD

Do not use the saw without the lower blade guard. The lower blade guard is attached to the saw for your protection. Should the lower quard become damaged, do not use the saw until the damaged guard has been replaced. Develop a regular check to make sure the lower guard is working properly. Clean the lower guard of any dust or buildup with a damp cloth.

▲ WARNING

- When cleaning the lower guard, unplug the saw from the power source receptacle to avoid unexpected startup.
- Do not use solvents on the guard. They could make the plastic "cloudy" and brittle.

SAWDUST

Periodically, sawdust will accumulate under the work table and base. This could cause difficulty in the movement of the worktable when setting up a miter cut. Frequently blow out or vacuum up the sawdust.



If blowing sawdust, wear proper eye protection to keep debris from entering eyes.

LUBRICATION (FIG. XX)

All the motor bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions; therefore, no further lubrication is required.

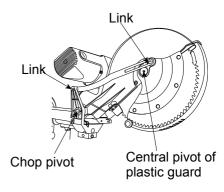
Lubricate the Following as necessary:

Chop pivot: Apply light machine oil to points indicated in illustration.

Central pivot of plastic guard: Use light household oil (sewing machine oil) on metal-to-metal or metal-to-plastic guard contact areas as required for smooth, quiet operation. Avoid excessive oil, to which sawdust will cling.

Link: (which actuates the lower guard movement) may be oiled at the rear pivot, greased at ball bearing contact, and oiled where the link actuates the acetyl roller of the lower guard, if the down chop motion is hard to start.

Fig. XX



TROUBLESHOOTING GUIDE

▲ WARNING

To avoid injury from accidental starting, always turn switch OFF and unplug the tool before moving, replacing the blade or making adjustments.

TROUBLESHOOTING GUIDE - MOTOR

PROBLEM	PROBLEM CAUSE	SUGGESTED CORRECTIVE ACTION
Brake does	Motor brushes not sealed	1. Inspect/clean/replace brushes.
not stop blade	or lightly sticking.	See MAINTENANCE section.
within 10	Motor brake overheated	2. Use a recommended blade. Let
seconds.	from use of defective or	cool down. See REMOVING OR
	wrong size blade or rapid	INSTALLING THE BLADE section.
	ON/OFF cycling.	3. Retighten. See REMOVING
	3. Arbor bolt loose.	OR INSTALLING THE BLADE
	4. Brushes cracked,	section.
	damaged, etc.	4. Replace brushes.
	5. Other.	5. Contact Sears Service Center.
Motor does	Limit switch failure	Replace limit switch.
not start	2. Brush worn.	2. Replace brushes. See
	3. Fuse blown or circuit	MAINTENANCE section.
	breaker tripped on home	3. Verify there is electrical power at
	panel.	the outlet.
Brush spark	1. Brush worn.	1. Replace Brushes. See
when switch	2. Other.	MAINTENANCE section.
released.		2. Contact Sears Service Center.

TROUBLESHOOTING GUIDE - SAW OPERATION

PROBLEM	PROBLEM CAUSE	SUGGESTED CORRECTIVE ACTION
Blade hits	1. Misalignment.	See ADJUSTMENT -Setting
table.		Cutting Depth section.
Angle of cut	Miter table unlocked.	1. See OPERATION - Miter Angle
not accurate.	2. Sawdust under table.	Adjustment section.
Can not		2. Vacuum or blow out dust. WEAR
adjust miter.		EYE PROTECTION.
Cutting arm wobbles.	Loose pivot points.	Contact Sears Service Center.
Cutting arm	Pivot spring not replaced	Contact Sears Service Center.
will not fully	properly after service.	2. Clean and lubricate moving
raise, or	2. Sawdust build-up.	parts.
blade guard		
won't fully		
close.		
Blade binds,	Improper operation.	1. See BASIC SAW OPERATION
jams, burns	2. Dull or warped blade.	section.
wood.	3. Improper blade size.	Replace or sharpen blade.
	4 Wood is moving during	3. Replace with 12 in. diameter
	cut.	blade.
		4. Use hold down clamp to secure
		workpiece to table.
Saw vibrates	Saw blade not round /	1. Replace blade.
or shakes.	damaged / loose.	2. Tighten arbor bolt.
	2. Arbor bolt loose.	

PARTS LIST

12 in. COMPOUND MITER SAW

MODEL NO. 137.212210



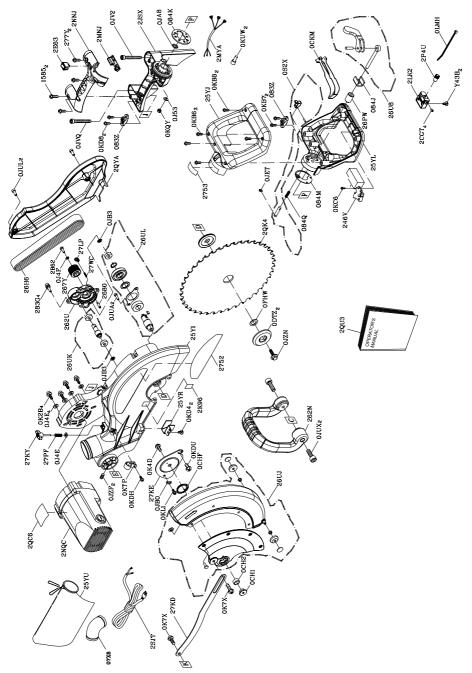
When servicing use only CRAFTSMAN replacement parts. Use of any other parts many create a HAZARD or cause product damage. Any attempt to repair or replace electrical parts on this Miter Saw may create a HAZARD unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Service Center.

PARTS LIST FOR SAW SCHEMATIC A

I.D.	Description	Size	Qty	/ I.D.	Description	Size	Qty
1585	CR. RE. PAN HD. TAPPING SCREW	M6*14-16	2	0KUW	TERMINAL		2
2680	LOCATOR PIN		1	OLMH	LOCKING CABLE TIE		1
2752	TRADE-MARK LABEL		1	0S2X	LOCK HANDLE ASS'Y		1
2753	TILTING SCALE		1	246V	TRIGGER SWITCH		1
07X8	ELBOW		1	25Y1	ARM	#AW	1
083Z	CORD CLAMP		2	25YJ	CRANK HANDLE		1
084J	STOP CLAMP		1	25YL	CRANK HANDLE		1
084K	SET PLATE		1	25YR	PLATE		1
084M	STOP CLAMP		1	25YU	DUST BAG		1
084Q	COMPRESSION SPRING		1	262N	SEGMENT HANDLE		1
0CH1	SHAFT-PIVOT		1	262U	GEAR BOX COVER	#AW	1
0CH2	SLEEVE		1	267Y	PULLEY		1
0CHF	SPRING GUARD		1	26H6	V-RIBBED BEIT (POIYOURETHANE)		1
0CKM	TRIGGER		1	26PW	SPACER		1
ODTZ	ARBOR COLLAR		2	26U8	LOCKING HANDLE ASS'Y		1
OFHW	COLLAR		1	26UJ	PC-GUARD ASS'Y		1
0J4E	FLAT WASHER	φ6*13-1	5	26UK	GEAR SHAFT ASS'Y		1
0J4F	FLAT WASHER	φ8*16-2.5	1	26UL	CUTTER SHAFT ASS'Y		1
0J53	FLAT WASHER	φ8.4*24-2	1	277Y	CR. RE. PAN HD. TAPPING SCREW	M6*14-25	2
0JA8	EXTERNAL TOOTH LOCK WASHER	φ8	1	27KD	LEVER		1
OJBO	WAVE WASHER		1	27KE	CUTTER SHAFT GUARD		1
OJB3	WAVE WASHER		2	27KY	CLAMP BOLT		1
OJET	E-RING		1	27LP	LOCK KNOB		1
0JUA	HEX. SOC. HD. CAP BOLT	M5*0.8-8	2	27PF	COMPRESSION SPRING		1
OJUL	HEX. SOC. HD. CAP BOLT	M6*1.0-20	2	27WC	COMPRESSION SPRING		1
OJUX	HEX. SOC. HD. CAP BOLT	M8*1.25-30	2	283G	HEX. SOC. HD. CAP SCREW	M5*0.8-20	4
0JV2	HEX. SOC. HD. CAP BOLT	M8*1.25-60	1	2B62	HEX. HD. BOLT	M6*1.0-16	1
0JVQ	HEX. SOC. HD. CAP BOLT	M8*1.25-50	1	2CGT	SLOTTED SET SCREW	M6*1.0-8	4
OJZF	HEX. SOC. SET SCREW	M6*1.0-10	2	2E63	ROCKER SWITCH		1
OJZN	ARBOR BOLT	M8*1.25-20	1	2JSX	SEGMENT HANDLE		1
OK2B	HEX. SOC. HD. CAP SCREW	M6*1.0-16	4	2K96	WARNING LABEL		1
0K4D	CR. RE. PAN HD. SCREW & WASHER	M6*1.0-12	1	2LK2	LASER PLUNGER HOUSING		1
0K7X	CR. RE. TRUSS HD. ROUND NECK SCREW	M6*1.0-10	2	2MNJ	CONTROLLER ASS'Y		1
OKB6	CR. RE. PAN HD. TAPPING SCREW	M4*18-35	3	2MYA	LEAD WIRE ASS'Y		1
OKB7	CR. RE. PAN HD. TAPPING SCREW	M4*18-16	2	2NNJ	SEGMENT HANDLE		1
OKB8	CR. RE. PAN HD. TAPPING SCREW	M4*18-20	2	2NQC	MOTOR ASS'Y		1
0KC6	CR. RE. TRUSS HD. TAPPING SCREW	M4*16-12	1	2P4U	PLUNGER HOUSING ASS'Y		1
0KD4	CR. RE. PAN HD. SCREW	M6*1.0-10	2	2QC6	LABEL		1
0KD8	CR. RE. PAN HD. SCREW	M4*0.7-12	2	2QK4	BLADE		1
	CR. RE. PAN HD. SCREW	M5*0.8-8		1	OWNER'S MANUAL		1
	CR. RE. PAN HD. SCREW	M6*1.0-12	1		PULLEY COVER		1
OKL1	CR. RE. PAN HD. ROUND NECK SCREW	M6*1.0-12	1	2SJT	POWER CABLE		1
	LOCK NUT	M8*1.25 T=8	1	Y43B	CR. RE. COUNT HD. SCREW	M5*0.8-25	2
OKTP	CABLE CLAMP		1			3.0 20	-
		4	48 I				

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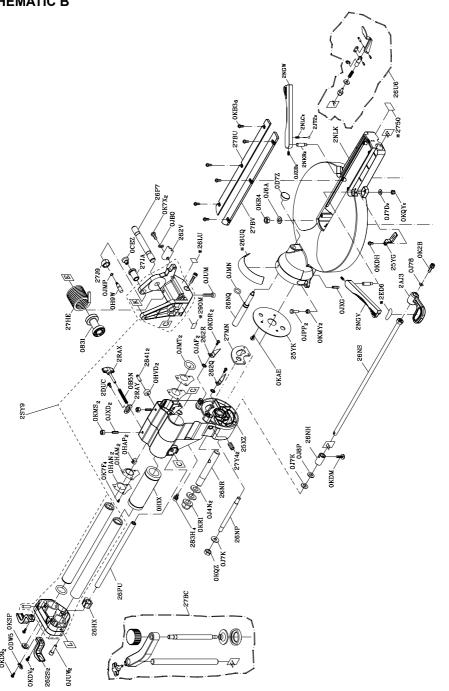
SCHEMATIC A



12 in. COMPOUND MITER SAW

PARTS LIST FOR SAW SCHEMATIC B

I.D.	Description	Size	Qty	I.D.	Description	Size	Qty
0831	SHAFT SLEEVE		1	OKR1	LOCK NUT	M16*2.0 T=16	1
2750	CAUTION LABEL		1	0KR4	LOCK NUT	M8*1.25 T=8	1
2841	CENTER SHAFT		2	OKSP	STRAIN RELIEF		1
OB5N	COMPRESSION SPRING		1	25XZ	ARM-MITER	#AW	1
0CEZ	PLUNGER HANDLE		1	25YG	NEEDLE POINTER		1
0D7Z	KNOB-HANDLE		1	25YK	SET PLATE		1
0DW5	POWER CORD CLAMP		1	262Q	TILT POINTER		1
0H9W	CLEVIS PIN		1	262R	TILT POINTER	#23	1
0HAM	DUST SHIELD		2	262S	POWER CORD CLAMP		2
0HAN	PLATE COVER		2	262V	ANCHOR PLATE	#06	1
OHAP	SLIDE-BAR GUIDE CLAMP		2	26HX	GUIDE HOLDER		1
0HVD	BALL BEARING		2	26LU	WARNING LABEL		1
0HXX	LINEAR MOTION BEARING		1	26NH	SPECIAL NUT		1
0J4N	FLAT WASHER	φ16*30-3	2	26NP	SPECIAL BOLT		1
0J6A	FLAT WASHER	φ8*16-2.5	1	26NQ	LOCATING BAR		1
0J78	FLAT WASHER	1/4*1/2-3/32	1	26NR	SHAFT-PIVOT		1
0J7D	FLAT WASHER	5/16*9/16-1/16	2	26NS	LOCKING ROD		1
0J7K	FLAT WASHER	3/8*29/32-5/64	2	26P7	SHAFT-PIVOT		1
0J8P	FLAT WASHER	3/8*29/32-5/64	1	26PU	MITER BAR		1
OJAF	EXTERNAL TOOTH LOCK WASHER	φ5	2	26U6	LOCKING HANDLE ASS'Y		1
OJB0	WAVE WASHER	WW-8	1	26UQ	BRACKET-TILT		1
0JMN	O-RING		1	27BC	SAFETY CLAMP ASS'Y		1
OJMP	O-RING		1	27BU	TABLE INSERT		1
OJMT	O-RING ROD		2	27BV	TABLE INSERT		1
OJPP	HEX. HD. BOLT	M8*1.25-30	2	27HE	TORSION SPRING		1
OJUM	HEX. SOC. HD. CAP BOLT	M6*1.0-25	1	27J9	SET NUT		1
OJUW	HEX. SOC. HD. CAP BOLT	M8*1.25-25	2	27JA	SCREW STOP		1
0JXD	HEX. SOC. SET SCREW	M6*1.0-25	2	27MN	ANCHOR PLATE		1
0JXG	HEX. SOC. SET SCREW	M8*1.25-16	1	27Y4	HEX. SOC. SET SCREW	M6*1.0-16	2
OJZB	HEX. SOC. SET SCREW	M4*0.7-6	2	283H	HEX. SOC. HD. CAP SCREW	M5*0.8-12	4
OK2B	HEX. SOC. HD. CAP SCREW	M6*1.0-16	1	290M	CAUTION LABEL		1
0K7F	CR. RE. ROUND WASHER HD. SCREW	M5*0.8-8	4	2AJ3	CLAMP HANDLE	#AW	1
0K7X	CR. RE. TRUSS HD. ROUND NECK SCREW	M6*1.0-10	2	2DUC	CR. RE. TRUSS HD. SCREW	M5*0.8-8	1
0KAE	CR. RE. PAN HD. TAPPING SCREW	M5*0.8-10	1	2ED6	CAUTION LABEL		1
OKB3	CR. RE. PAN HD. TAPPING SCREW	M4*18-8	6	2JT2	STEEL BALL		2
0KD9	CR. RE. PAN HD. SCREW	M4*0.7-16	2	2NGV	SUPPORT(LEFT)	#AW	1
0KDH	CR. RE. PAN HD. SCREW	M5*0.8-8	1	2NGW	SUPPORT(RIGHT)	#AW	1
0KDM	CR. RE. PAN HD. SCREW	M5*0.8-20	1	2NKR	SPECIAL BOLT		2
OKDR	CR. RE. PAN HD. SCREW	M5*0.8-10	2	2NLC	SPRING		2
0KDV	CR. RE. PAN HD. SCREW	M6*1.0-16	2	2NLK	TABLE	#AW	1
OKMS	HEX. NUT	M6*1.0 T=5	2	2RAX	LOCK KNOB		1
OKMY	HEX. NUT	M8*1.25 T=6.5	2	2RAY	PLATE		1
0KQY	LOCK NUT	M8*1.25 T=8	2	2SY9	SLIDE-BAR ASS'Y		1
0KQZ	NUT	M10*1.5 T=10	1				



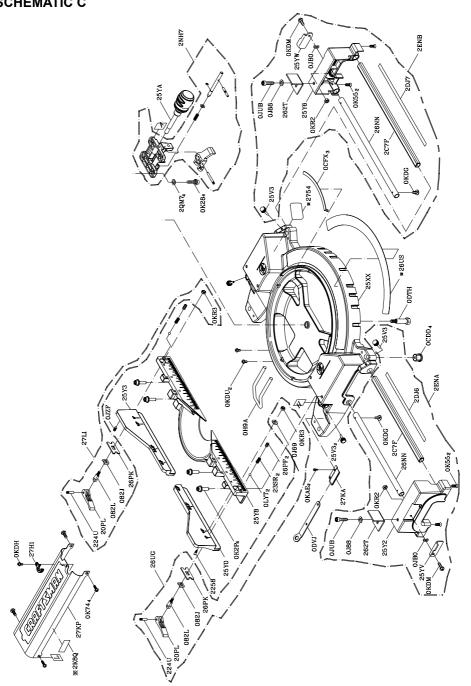
12 in. COMPOUND MITER SAW

PARTS LIST FOR SAW SCHEMATIC C

2258 SPECIAL BOLT 1 25V3 KNOB 4 4 2754 WARNING LABEL 1 25XX BASE #AW 1 082J CUSHION 2 25V2 ASSIST-FENCE #AW 1 082L BOLT 2 25Y2 EXTENSION WING #AW 1 0CDD FOOT 4 25Y3 ASSIST-FENCE #AW 1 0CPX SLIDE PLATE 3 25Y6 EXTENSION WING #AW 1 0DVJ BLADE WRENCH 1 25Y8 HENCE #AW 1 0DVJ BLADE WRENCH 1 25Y8 PLATE (RIGHT) #23 1 0DVJ BLADE WRENCH 1 25Y8 PLATE (RIGHT) #23 1 0J69 FLAT WASHER #613-1 1 25Y8 PLATE (RIGHT) #23 1 0J88 FLAT WASHER #06*13-1 1 25Y8 PLATE (RIGHT) #23 1 0J89	I.D.	Description	Size	Qty	I.D.	Description	Size	Qty
082J CUSHION 2 25Y0 ASSIST-FENCE #AW 1 082L BOLT 2 25Y2 EXTENSION WING #AW 1 0CDD POOT 4 25Y3 ASSIST-FENCE #AW 1 0CFX SLIDE PLATE 3 25Y6 EXTENSION WING #AW 1 0DTM CENTER BOLT 1 25Y8 FENCE #AW 1 0DWJ BLADE WRENCH 1 25Y8 FENCE #AW 1 0H9A REAR EXTENSION STAY 1 25Y9 PLATE (RIGHT) #23 1 0JBB FLAT WASHER 06*13-1 1 25YW PLATE (RIGHT) #23 1 0JBB FLAT WASHER #10*1/2-1716 2 26DT FENCE PLATE #23 1 0JBB FLAT WASHER #10*1/2-1716 2 26DF HEX. SOC. SET SCREW M6*1.2-1716 2 26DF HEX. SOC. SET SCREW M6*1.2-10 2 26DF HEX. SOC. SET SCREW <td>2258</td> <td>SPECIAL BOLT</td> <td></td> <td>1</td> <td>25V3</td> <td>KNOB</td> <td></td> <td>4</td>	2258	SPECIAL BOLT		1	25V3	KNOB		4
082L BOLT 2 25Y2 EXTENSION WING #AW 1 0CDD FOOT 4 25Y3 ASSIST-FENCE #AW 1 0CFX SLIDE PLATE 3 25Y6 EXTENSION WING #AW 1 0DTH CENTER BOLT 1 25Y8 FENCE #AW 1 0DWJ BLADE WRENCH 1 25YW LOCKING HANDLE ASS'Y - 1 0H9A REAR EXTENSION STAY 1 25YW PLATE (RIGHT) #23 1 0JBB FLAT WASHER #0°10-11/10* 2 26YD PLATE (RIGHT) #23 1 0JBB FLAT WASHER #10°1/2-1/16* 2 26YD PLATE (RIGHT) #23 1 0JBB FLAT WASHER #0°10-10 1 26YD PLATE (RIGHT) #23 1 0JBB FLAT WASHER #0°10-10-10 1 26YD PLATE (RIGHT) #8 1 0JBB FLAT WASHER #0°10-10-10 1	2754	WARNING LABEL		1	25XX	BASE	#AW	1
OCDD FOOT 4 25Y3 ASSISIT-FENCE #AW 1 OCFX SLIDE PLATE 3 25Y6 EXTENSION WING #AW 1 ODTM CENTER BOLT 1 25Y8 FENCE #AW 1 ODVJ BLADE WRENCH 1 25YW LOCKING HANDLE ASS'Y - 1 0H9A REAR EXTENSION STAY 1 25YW PLATE (RIGHT) #23 1 0JBB FLAT WASHER \$\phi0^\cin^1/2\cdot 1/16\$ 2 262T FENCE PLATE #23 1 0JBB FLAT WASHER \$\phi0^\cin^1/2\cdot 1/16\$ 2 262T FENCE PLATE #23 1 0JBB FLAT WASHER \$\phi0^\cin^1/2\cdot 1/16\$ 2 262T FENCE PLATE #23 1 0JBB FLAT WASHER \$\phi0^\cin^1/2\cdot 1/16\$ 2 262T FENCE PLATE #23 1 0JBB FLAT WASHER \$\phi0^\cin^1/2\cdot 1/16\$ 2 262T FENCE PLATE #23 1	082J	CUSHION		2	25Y0	ASSIST-FENCE	#AW	1
OCFX SLIDE PLATE 3 25Y6 EXTENSION WING #AW 1 ODTH CENTER BOLT 1 25Y8 FENCE #AW 1 ODYJ BLADE WRENCH 1 25Y8 LOCKING HANDLE ASS'Y	082L	BOLT		2	25Y2	EXTENSION WING	#AW	1
ODIH CENTER BOLT 1 25Y8 FENCE #AW 1 ODVJ BLADE WRENCH 1 25YA LOCKING HANDLE ASSYY 1 0H9A REAR EXTENSION STAY 1 25YW PLATE #23 1 0JB9 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 1 25YW PLATE (RIGHT) #23 1 0JB8 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 1 25YW PLATE (RIGHT) #23 1 0JB8 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 2 26DF PLATE (RIGHT) #23 1 0JB8 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 2 26PF PLATE (RIGHT) #23 1 0JB8 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 2 26PF PLATE (RIGHT) #23 1 0JB8 FLAT WASHER \$\phi\0^{\chi*13-1}\$ 2 26PF PLATE (RIGHT) #23 1 0JB8 #24 \$\phi\0.5\$ \$\phi\0.5\$ \$\phi\0.5\$ \$\phi\0.5\$ \$\phi\0.5\$	0CDD	FOOT		4	25Y3	ASSIST-FENCE	#AW	1
ODVJ BLADE WRENCH 1 25YA LOCKING HANDLE ASS'Y 1 1 0H9A REAR EXTENSION STAY 1 25YV PLATE #23 1 0J89 FLAT WASHER φ6*13-1 1 25YW PLATE (RIGHT) #23 1 0J80 FLAT WASHER #10*1/2-1/16 2 262T FENCE PLATE #AW 2 0JB0 WAVE WASHER WW-8 2 26PF HEX. SOC. SET SCREW M8*1.25-6 2 0JJB1 HEX. SOC. SET SCREW M6*1.0-10 1 26PK HEX. SOC. SET SCREW M8*1.25-40 4 26UG LOCKING HANDLE ASS'Y 1 1 0K2P HEX. SOC. HD. CAP SCREW M8*1.25-40 4 26UG LOCKING HANDLE ASS'Y 1 1 0K35 CR. RE. COUNT HD. SCREW M8*1.25-40 4 26UG BRACKET-TILT 1 0K42 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H CLAMP-CORD #AW 1 0K45 CR. RE. PAN HD. SCREW <td>0CFX</td> <td>SLIDE PLATE</td> <td></td> <td>3</td> <td>25Y6</td> <td>EXTENSION WING</td> <td>#AW</td> <td>1</td>	0CFX	SLIDE PLATE		3	25Y6	EXTENSION WING	#AW	1
OH9A REAR EXTENSION STAY 1 25YV PLATE #23 1 0J69 FLAT WASHER φ6*13-1 1 25YW PLATE (RIGHT) #23 1 0J88 FLAT WASHER #10*1/2-1/16 2 262T FENCE PLATE #AW 2 0J80 WAVE WASHER WW-8 2 26ND UPPER TUBE 2 0JUB HEX. SOC. HD. CAP BOLT M5*0.8-12 2 26PF HEX. SOC. SET SCREW M8*1.25-6 2 0K2B HEX. SOC. SET SCREW M6*1.0-10 1 26PK BLADE HOLDER ————————————————————————————————————	0DTH	CENTER BOLT		1	25Y8	FENCE	#AW	1
OJ69 FLAT WASHER φ6*13-1 1 25YW PLATE (RIGHT) #23 1 OJ88 FLAT WASHER #10*1/2-1/16 2 26ZT FENCE PLATE #AW 2 OJB0 WAVE WASHER WW-8 2 26NN UPPER TUBE 2 OJUB HEX. SOC. HD. CAP BOLT M5*0.8-12 2 26PF HEX. SOC. SET SCREW M8*1.25-40 2 OK2B HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26US BRACKET-TILT 1 OK2P HEX. SOC. HD. CAP SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 OK2P HEX. SOC. HD. CAP SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 OK2P HEX. SOC. HD. CAP SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 OK55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H2 LOCKING HANDLE ASS'Y 4 OKD4 CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 4	0DVJ	BLADE WRENCH		1	25YA	LOCKING HANDLE ASS'Y		1
OJ88 FLAT WASHER # 10*1/2-1/16 2 262T FENCE PLATE # AW 2 OJB0 WAVE WASHER WW-8 2 26NN UPPER TUBE 2 OJJB HEX. SOC. HD. CAP BOLT M5*0.8-12 2 26PF HEX. SOC. SET SCREW M8*1.25-6 2 OJZF HEX. SOC. SET SCREW M6*1.0-10 1 26PK BLADE HOLDER M8*1.25-6 2 OK2B HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26UG LOCKING HANDLE ASS'Y 1 1 0K52P HEX. SOC. HD. CAP SCREW M8*1.25-40 4 26UG BCACKET-TILT 1 0K52P HEX. SOC. HD. CAP SCREW M5*0.8-8 4 27HJ CLAMP-CORD	0H9A	REAR EXTENSION STAY		1	25YV	PLATE	#23	1
OJBO WAVE WASHER WW-8 2 26NN UPPER TUBE 2 OJUB HEX. SOC. HD. CAP BOLT M5*0.8-12 2 26PF HEX. SOC. SET SCREW M8*1.25-6 2 0K28 HEX. SOC. SET SCREW M6*1.0-10 1 26PK BLADE HOLDER 2 0K28 HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26UG LOCKING HANDLE ASS'Y 1 0K29 HEX. SOC. HD. CAP SCREW M8*1.25-40 4 26UG LOCKING HANDLE ASS'Y 1 0K55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27HI CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-8 2 27LI LOCKING HANDLE ASS'Y 4 0KDG CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDM CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 1 <td>0J69</td> <td>FLAT WASHER</td> <td>φ6*13-1</td> <td>1</td> <td>25YW</td> <td>PLATE (RIGHT)</td> <td>#23</td> <td>1</td>	0J69	FLAT WASHER	φ6*13-1	1	25YW	PLATE (RIGHT)	#23	1
OJUB HEX. SOC. HD. CAP BOLT M5*0.8-12 2 26PF HEX. SOC. SET SCREW M8*1.25-6 2 0X2F HEX. SOC. SET SCREW M6*1.0-10 1 26PK BLADE HOLDER 2 0K28 HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26UG LOCKING HANDLE ASS'Y 1 0K55 CR. RE. COUNT HD. SCREW M8*1.25-40 4 26US BRACKET-TILT 1 0K55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-6 2 27KP SLIDE-BAR BLADE GUARD #AW 1 0KDG CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDM CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ6 BRACKET-TILT 1 0KDZ LOCK NUT M5*0.8 T=5 2 2ENB EXTENSION WING ASS'Y<	0J88	FLAT WASHER	#10*1/2-1/16	2	262T	FENCE PLATE	#AW	2
0JZF HEX. SOC. SET SCREW M6*1.0-10 1 26PK BLADE HOLDER 2 0K28 HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26UG LOCKING HANDLE ASS'Y 1 0K2P HEX. SOC. HD. CAP SCREW M8*1.25-40 4 26US BRACKET-TILT 1 0K55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KB SLIDE-BAR BLADE GUARD #AW 1 0KDG CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDM CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 0KDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 </td <td>OJB0</td> <td>WAVE WASHER</td> <td>WW-8</td> <td>2</td> <td>26NN</td> <td>UPPER TUBE</td> <td></td> <td>2</td>	OJB0	WAVE WASHER	WW-8	2	26NN	UPPER TUBE		2
0K28 HEX. SOC. HD. CAP SCREW M5*0.8-16 4 26UG LOCKING HANDLE ASS'Y 1 0K2P HEX. SOC. HD. CAP SCREW M8*1.25-40 4 26US BRACKET-TILT 1 0K55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KP SLIDE-BAR BLADE GUARD #AW 1 0KDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 0KDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDW CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 0KDW CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KDW CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 <td>OJUB</td> <td>HEX. SOC. HD. CAP BOLT</td> <td>M5*0.8-12</td> <td>2</td> <td>26PF</td> <td>HEX. SOC. SET SCREW</td> <td>M8*1.25-6</td> <td>2</td>	OJUB	HEX. SOC. HD. CAP BOLT	M5*0.8-12	2	26PF	HEX. SOC. SET SCREW	M8*1.25-6	2
0K2P HEX. SOC. HD.CAP SCREW M8*1.25-40 4 26US BRACKET-TILT 1 0K55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KP SLIDE-BAR BLADE GUARD #AW 1 0KDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 0KDM CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDU CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2DJ7 BRACKET-TILT 1 0KR3 LOCK NUT M5*0.8 T=5 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 224U ROLL PIN	OJZF	HEX. SOC. SET SCREW	M6*1.0-10	1	26PK	BLADE HOLDER		2
OK55 CR. RE. COUNT HD. SCREW M5*0.8-8 4 27H1 CLAMP-CORD 1 0K74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 0KAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KP SLIDE-BAR BLADE GUARD #AW 1 0KDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 0KDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 0KDW CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 0KDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 2DU CLAMP HANDLE 2 2MP PLUNGER HOUSING ASS'Y 1 2D	0K28	HEX. SOC. HD. CAP SCREW	M5*0.8-16	4	26UG	LOCKING HANDLE ASS'Y		1
OK74 CR. RE. TRUSS HD. SCREW M6*1.0-8 4 27KA ECCENTRIC SPANNER SEAT #06 1 OKAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KP SLIDE-BAR BLADE GUARD #AW 1 OKDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 OKDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 OKDW CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 OKDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 OKR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 OKR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 OLYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2M7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 </td <td>0K2P</td> <td>HEX. SOC. HD.CAP SCREW</td> <td>M8*1.25-40</td> <td>4</td> <td>26US</td> <td>BRACKET-TILT</td> <td></td> <td>1</td>	0K2P	HEX. SOC. HD.CAP SCREW	M8*1.25-40	4	26US	BRACKET-TILT		1
OKAE CR. RE. PAN HD. TAPPING SCREW M5*0.8-10 2 27KP SLIDE-BAR BLADE GUARD #AW 1 OKDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 OKDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 OKDW CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 OKDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 OKR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 OKR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 OLYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2M7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0K55	CR. RE. COUNT HD. SCREW	M5*0.8-8	4	27H1	CLAMP-CORD		1
OKDG CR. RE. PAN HD. SCREW M5*0.8-6 2 27L1 LOCKING HANDLE ASS'Y 1 OKDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 OKDM CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 OKDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0K74	CR. RE. TRUSS HD. SCREW	M6*1.0-8	4	27KA	ECCENTRIC SPANNER SEAT	#06	1
OKDH CR. RE. PAN HD. SCREW M5*0.8-8 1 2C7F UPPER TUBE 2 OKDM CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 OKDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	OKAE	CR. RE. PAN HD. TAPPING SCREW	M5*0.8-10	2	27KP	SLIDE-BAR BLADE GUARD	#AW	1
OKDM CR. RE. PAN HD. SCREW M5*0.8-20 2 2DJ6 BRACKET-TILT 1 0KDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0KDG	CR. RE. PAN HD. SCREW	M5*0.8-6	2	27L1	LOCKING HANDLE ASS'Y		1
0KDU CR. RE. PAN HD. SCREW M6*1.0-12 2 2DJ7 BRACKET-TILT 1 0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0KDH	CR. RE. PAN HD. SCREW	M5*0.8-8	1	2C7F	UPPER TUBE		2
0KR2 LOCK NUT M5*0.8 T=5 2 2ENA EXTENSION WING ASS'Y 1 0KR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0KDM	CR. RE. PAN HD. SCREW	M5*0.8-20	2	2DJ6	BRACKET-TILT		1
OKR3 LOCK NUT M6*1.0 T=6 2 2ENB EXTENSION WING ASS'Y 1 OLYT STEEL BALL 2 2K8Q WARNING LABEL 1 2OPL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0KDU	CR. RE. PAN HD. SCREW	M6*1.0-12	2	2DJ7	BRACKET-TILT		1
0LYT STEEL BALL 2 2K8Q WARNING LABEL 1 20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	0KR2	LOCK NUT	M5*0.8 T=5	2	2ENA	EXTENSION WING ASS'Y		1
20PL CLAMP HANDLE 2 2NH7 PLUNGER HOUSING ASS'Y 1 224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	OKR3	LOCK NUT	M6*1.0 T=6	2	2ENB	EXTENSION WING ASS'Y		1
224U ROLL PIN 2 2QM7 FLAT WASHER φ6*10-1 4	OLYT	STEEL BALL		2	2K8Q	WARNING LABEL		1
	20PL	CLAMP HANDLE		2	2NH7	PLUNGER HOUSING ASS'Y		1
23SR COMPRESSION SPRING 2	224U	ROLL PIN		2	2QM7	FLAT WASHER	φ6*10-1	4
	23SR	COMPRESSION SPRING		2				

12 in. COMPOUND MITER SAW SCHEMATIC C

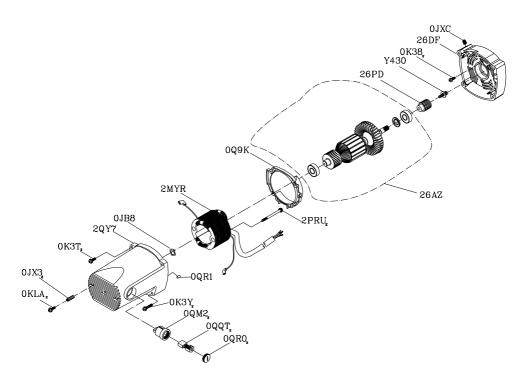
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12 in. COMPOUND MITER SAW

PARTS LIST FOR MOTOR

I.D.	Description	Size	Qty
OJB8	WAVE WASHER		1
0JX3	HEX. SOC. SET SCREW	M5*0.8-8	2
0JXC	HEX. SOC. SET SCREW	M6*1.0-20	1
0K38	CR. RE. PAN HD. SCREW & WASHER	M5*0.8-8	2
OK3T	CR. RE. PAN HD. SCREW & WASHER	M5*0.8-25	2
0K3Y	CR. RE. PAN HD. SCREW & WASHER	M5*0.8-50	2
0KLA	PLASTIC SCREW	M5*0.8-6	2
0Q9K	FLOW GUIDE		1
0QM2	BRUSH HOLDER ASS'Y	Ф27*26.5	2
0QQT	BRUSH ASS'Y		2
0QR0	BRUSH COVER		2
0QR1	RUBBER PIN		1
26AZ	ARMATURE ASS'Y		1
26DF	FRONT HOUSING	#AW	1
26PD	MOTOR PULLEY		1
2MYR	FIELD ASS'Y		1
2PRU	CR. RE. PAN HEAD TAPPING & WASHER SCREW	M5*12-65	2
2QY7	MOTOR HOUSING ASS'Y		1
Y430	HEX. HD. SCREW & WASHER SCREW	M6*1.0-16	1



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