Operator's Manual

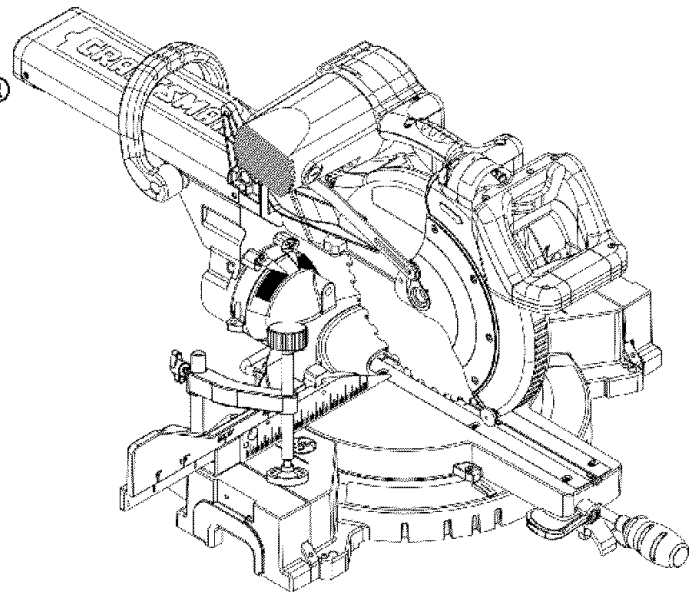
CRAFTSMAN®

PROFESSIONAL

15Amp 3 HP (Max. Developed)
12" Blade
4200 R.P.M.

SLIDING COMPOUND MITER SAW With Laser Trac®

Model 137.212060



CAUTION:

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

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

Customer Help Line
1-800-843-1682

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.
Visit our Craftsman website: www.sears.com/craftsman

Part No.: 137212060001

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WARRANTY

FULL ONE YEAR WARRANTY

If this tool fails due to a defect in material or workmanship within one year of date of purchase, Sears will at its option repair or replace it free of charge.

Return this tool to a Sears Service Center for repair, or to place of purchase for replacement.

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

Sears, Roebuck and Co., Dept. 817 WA, Hoffman Estates, IL 60179

⚠ WARNING

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, 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

Power Source	120 V AC, 60HZ, 15 Amp
Horsepower	3HP (Max. Developed)
Speed	4200 RPM (No load)
Brake	Electric
Double Insulated	Yes
Motor Arbor Shaft Size	5/8"

MITER SAW

Cutting Capacity:

Crosscut	4" x 12-1/4"
Miter 45° R.& L ; . 60° R	4"x 6-1/4" R & L; 4" x 8-3/4" R
Bevel 45° R & L	2-1/2"x12-1/4" L; 1-3/4"x12-1/4" R
45° Miter and 45° Bevel R & L	2-1/2" x 8-3/4"
60° Miter and 45° Bevel R	3/4" x 6-1/4"

BLADE SIZE

Diameter	12"
Arbor size	1" w/ a 5/8" reducer

Rotating Table:

Diameter	13-7/16"
Miter Detent Stops	0, 15, 22.5, 31.6, 45° R. & L. 60° R
Bevel Positive Stops	0, 33.9, 45° R & L
Base Dimensions	23" x 16-3/4"
Extension Table	Yes
Net Weight	66 Lbs

⚠ 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.

POWER TOOL SAFETY

GENERAL SAFETY INSTRUCTIONS BEFORE USING THE SLIDING MITER SAW

⚠ WARNING

Safety is a combination of common sense, staying alert and knowing how to use your sliding miter saw.
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 Operators Manual. **LEARN** the tool's application, limitations and possible hazards.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **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.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DON'T USE IN DANGEROUS ENVIRONMENTS.** Don't use power tools in damp locations, or expose them to rain or snow. Keep work area well lighted.
6. **KEEP CHILDREN AWAY.** All visitors and bystanders should be kept a safe distance from work area.
7. **MAKE WORKSHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **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 5 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.
12. **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–resistance 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.

13. **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's safer than using your hand and it frees both hands to operate tool.
15. **DISCONNECT TOOLS** before the 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 Operators Manual for recommended accessories. The use of improper accessories may cause risk of injury to yourself or others.
18. **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 UNATTENED. TURN THE POWER "OFF".** Don't walk away from a running tool until the blade comes to a complete stop & unplug the unit.
21. **DON'T 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. **IMPORTANT:** After completing a cut, release the power switch and wait for the blade to stop before returning the saw to the raised position.

⚠ DANGER

Laser is activated when blade is rotating. Do not stare into beam or view directly with optical instruments. Do not remove the warning label affixed to the blade guard. Avoid direct eye contact with light source.

SPECIFIC SAFETY INSTRUCTIONS FOR THIS SLIDING MITER SAW

⚠ WARNING

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°.

1. **USE ONLY CROSS-CUTTING SAW BLADES.** When using carbide tipped blades, make sure they have a negative hook angle. **IMPORTANT: DO NOT USE THIN KERF BLADES**- they can deflect and contact guard and can cause possible injury to the operator.
2. **DO NOT** operate the miter saw until it is completely assembled and installed according to these instructions.
3. **IF YOU ARE NOT** thoroughly familiar with the operation of miter saws, seek guidance from your supervisor, instructor, or other qualified person.
4. **ALWAYS** hold the work firmly against the fence and table. DO NOT perform any operation free hand (use clamp wherever possible).
5. **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" inches of the saw blade, the workpiece should be clamped in place before making the cut.
6. **BE SURE** the blade is sharp, runs freely, and is free of vibration.
7. **ALLOW** the motor to come up to full speed before starting a cut.
8. **KEEP THE MOTOR AIR SLOTS CLEAN** and free of chips or dust.
9. **ALWAYS MAKE SURE** all handles are tight and locked in position before cutting. Lock the quick cam miter lock for every cut even if the table is positioned in one of the positive stops.
10. **BE SURE** both the blade and the collars are clean and the arbor bolt is securely tightened.
11. **USE** only blade collars specified for your saw.
12. **NEVER** use blades larger or smaller in diameter than 12-inches.
13. **NEVER** apply lubricants to the blade when it is running.
14. **ALWAYS** check the blade for cracks or damage before operation. Replace a cracked or damaged blade immediately.
15. **NEVER** use blades recommended for operation at less than 4200 RPM.
16. **USE** the blade guards at all times.
17. **ALWAYS** keep the blade guards in place.
18. **NEVER** reach around the saw blade.
19. **MAKE SURE** the blade is not contacting the workpiece before the switch is turned ON.
20. **IMPORTANT:** After completing the cut, release the power switch and wait for the blade to stop before returning the saw to the raised position.
21. **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.
22. **NEVER** cut metals or masonry products with this tool. This miter saw is designed for use on wood and wood-like products.
23. **NEVER** 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.
24. **PROVIDE** adequate support to the sides of the saw table for long work pieces.
25. **NEVER** use the miter saw in an area with flammable liquids or gases.
26. **NEVER** use solvents to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material.
27. **SHUT OFF** the power before servicing or adjusting the tool.
28. **DISCONNECT** the saw from the power source and clean the machine when finished using.
29. **MAKE SURE** the work area is clean before leaving the machine.
30. **SHOULD** any part of your miter saw be missing, damaged, or fail in any way, or any electrical component fail to perform properly, shut off the switch and remove the plug from the power supply outlet. Replace missing, damaged, or failed parts before resuming operation.

ELECTRICAL REQUIREMENTS

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 2.

⚠ WARNING

To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Your saw is wired at the factory for 120V operation. Connect to a 120V, 15 Amp circuit and use a 15 amp. 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.

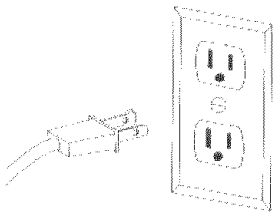
ELECTRICAL REQUIREMNTS AND SAFETY

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.

⚠ WARNING

To avoid electrocution:

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

This tool is intended for indoor use only.

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.

1. **CONNECT** this saw to a 120V, 15 amp. circuit with a 15 amp. time delay fuse or circuit breaker. Using the wrong size fuse can damage the motor.
2. **If** the motor won't 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.
4. **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 cause 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 # 12 wire and should be protected with a 15 Amp time delay fuse. 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 in feet			
more than	not more than	25'	50'	100'	150'
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	not recommended	

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

⚠ 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 inch saw blades that meet the requirements under recommended accessories is prohibited. Do not use accessories such as shaper cutters or dado sets. Ferrous metal cutting, the use of abrasive wheels and the cutting of masonry products are 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.

⚠ WARNING

To avoid the risk of personal injury, do not modify this power tool or use accessories not recommended by Sears.

⚠ WARNING

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 teeth, cracks, breakage, missing or loose tips, or other damage. Do not use if damage is suspected. Failure to heed to these safety instructions and warnings can result in serious bodily injury.

CARTON CONTENTS

UNPACKING YOUR SLIDING MITER SAW

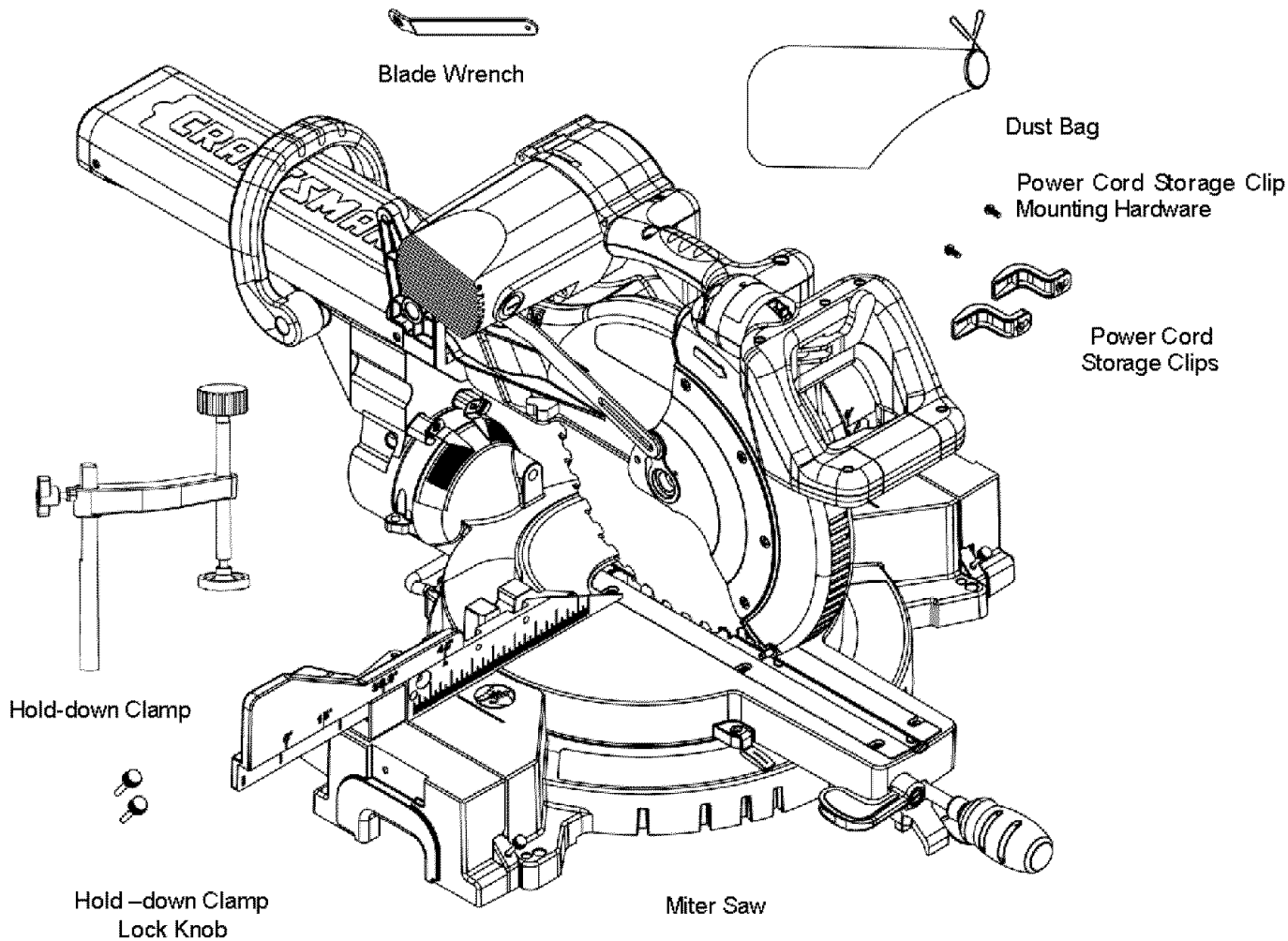
⚠ WARNING

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.

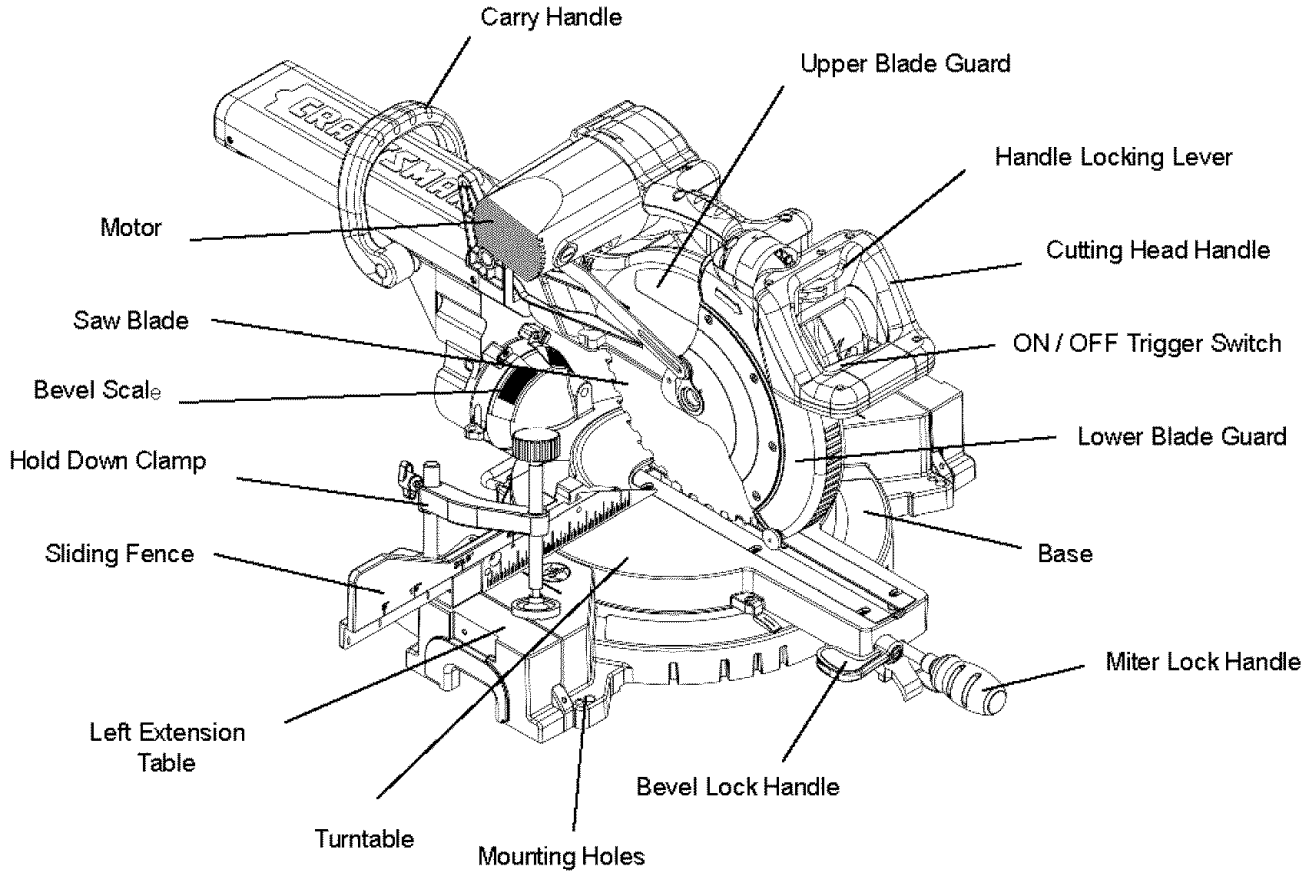
1. Remove the miter saw from the carton. IMPORTANT: Do not lift the miter saw by the switch handle or miter table handle. It may cause misalignment. Lift the machine by the built in carry handles.
2. Place the saw on a secure stationary work surface.
3. Separate all parts from the packing material. Check each one with the illustration to make certain all items are accounted for, before discarding any packing material.

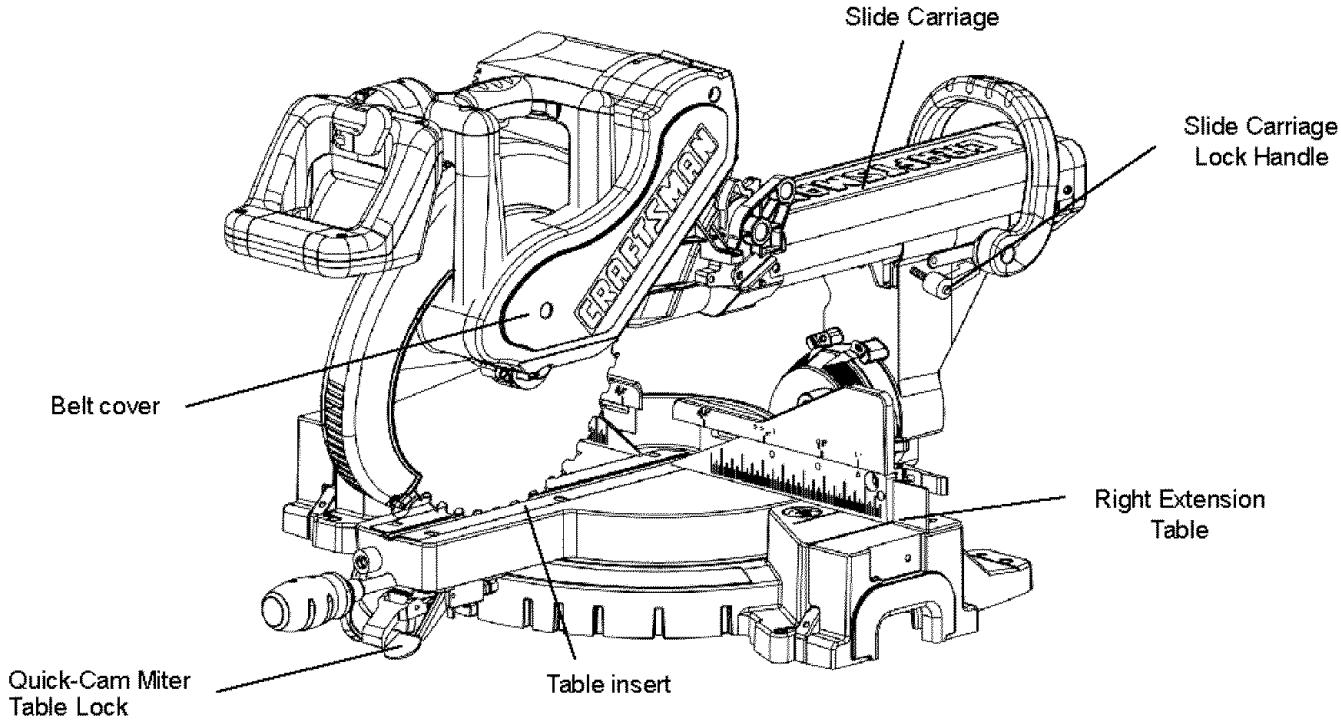
⚠ WARNING

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.



KNOW YOUR SLIDING MITER SAW





GLOSSARY OF TERMS

CRAFTSMAN SLIDING COMPOUND MITER SAW TERMS

ARBOR LOCK – Allows the user to keep the blade from rotating while tightening or loosening the arbor locking 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 and right.

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

DUST CHUTE – Exhausts debris away from the user.

EXTENSION TABLE – Extends the width of the work table for support while cutting long work pieces. Each extension table incorporates a stop lever for repetitive cuts.

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

RETRACTABLE LOWER BLADE GUARD – Helps protect your hands from the blade in the raised position, it retracts as the blade is lowered.

MITER HANDLE – Used to rotate the saw to the right or left cutting position.

MITER SCALE – Measures the miter angle of the saw blade. Positive stop index points have been provided at 0°, 15°, 22.5°, 31.6° and 45° right and left, and 60° right.

MITER SPRING LOCK – Used in combination with the miter handle, it locks the miter saw at a preset positive stop for the desired miter angle.

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

ON/OFF TRIGGER SWITCH – To prevent the trigger from being accidentally engaged, a lock-off slide switch is provided. To start the tool, push the lock-off slide switch forward and squeeze the trigger. Release the trigger to stop the miter saw.

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

SWITCH HANDLE – The cutting head handle contains the trigger switch and a safety lock-off slide switch. 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. Always make certain these are in place & 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 – A simultaneous bevel and miter cut.

CROSS CUT – A cut made across the width or grain of the workpiece.

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.

GUM – A sticky sap from wood products.

HEEL – Misalignment of the blade.

KERF – The amount of material removed by blade cut.

MITER CUT – An angle cut made across the width or grain of the workpiece.

RESIN – A sticky sap that has hardened.

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.

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

ASSEMBLY

ASSEMBLY INSTRUCTIONS

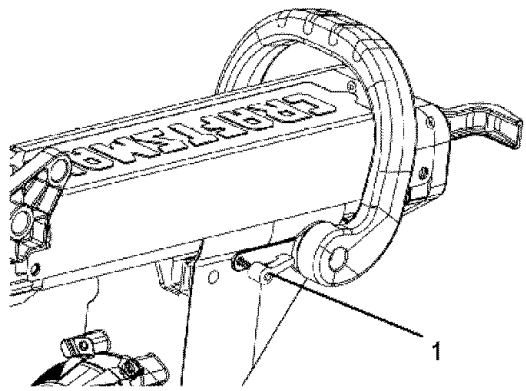
⚠ WARNING

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 Operators Manual.

UNLOCKING THE SLIDE CARRIAGE (Fig. A)

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

Fig. A



LOCK THE CUTTING HEAD (Fig. B)

⚠ WARNING

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

To unlock the cutting head from the collapsed position:

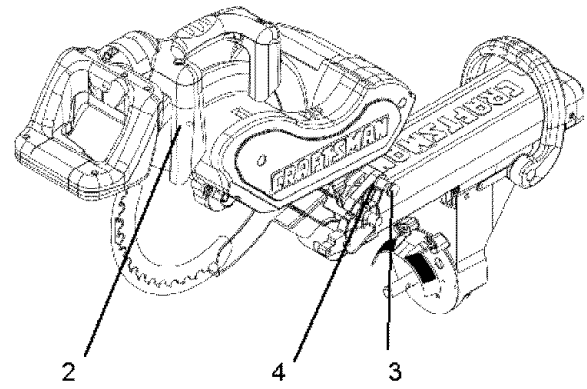
1. Push down slightly on the cutting head (2).
2. Pull out the lock pin (3).
3. Allow the cutting head to rise to the uppermost position.

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

1. Push the cutting head (2) down to the collapsed position.
2. Push the lock pin (3) into the locking hole (4).

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

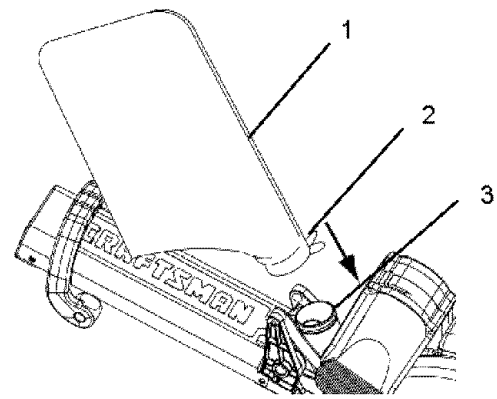
Fig. B



INSTALLING THE DUST BAG (Fig. C)

1. To install the dust bag (1), squeeze the metal collar wings (2) and place the dust bag neck opening around the exhaust port (3), and release the metal collar wings.

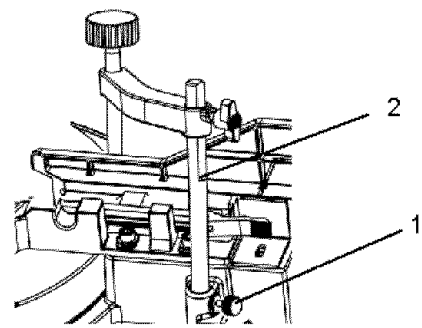
Fig. C



INSTALLING THE SAFETY HOLD-DOWN CLAMP (Fig. D)

1. Insert one safety hold-down clamp lock knob (1) into the rear of the base of the machine for each side.
2. Place the Safety hold-down Clamp (2) into the mounting hole.

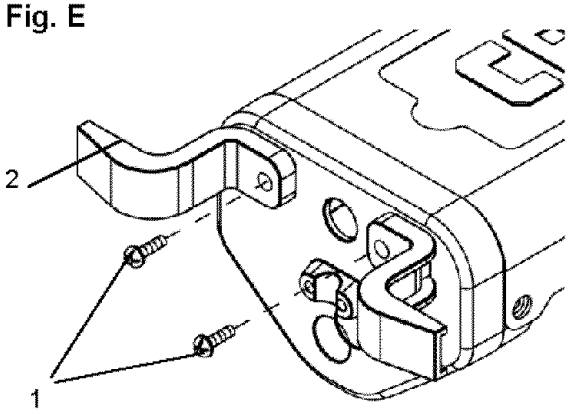
Fig. D



POWER CORD BRACKETS (Fig. E)
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 brackets on the rear for cord storage. To assembly these brackets:

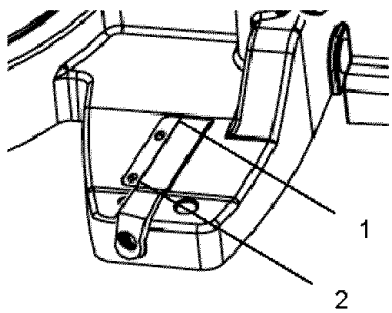
1. Attach each power cord bracket (2) to the rear of slide-bar seat with one mounting screw (1).

Fig. E



SAW BLADE WRENCH (Fig. F)
For convenient storage and prevention of loss, there is a slot (1) located at the left rear foot of the base for storing the blade wrench (2).

Fig. F



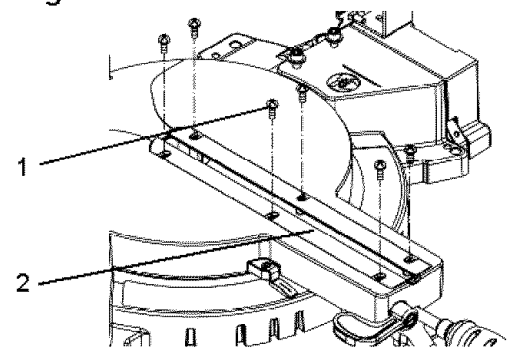
ADJUSTMENTS

⚠ 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. H)
⚠ WARNING
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.

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

Fig. H

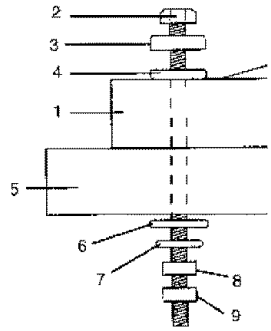


MOUNTING THE MITER SAW (Fig. I,J)
⚠ WARNING
To avoid injury form unexpected saw movement:
- Disconnect the power cord from the outlet, and lock the cutting head in the lower position using the lock pin.
- Lock the slide carriage in place in place by tightening the slide carriage lock knob.
- To avoid back injury, lift the saw by using the designated carrying handles located on the top of the machine. Bend with your knees, not 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 all cutting operations.

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. I

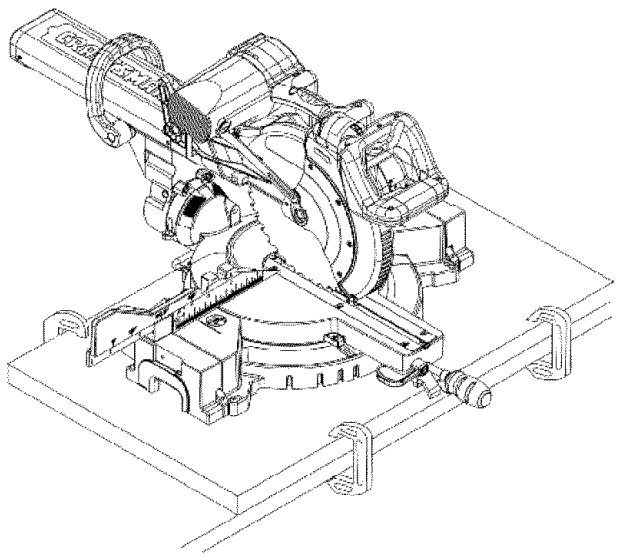
1. Miter saw base
2. Hex head bolt
3. Rubber washer
4. Flat washer
5. Workbench
6. Flat washer
7. Lockwasher
8. Hex nut
9. Jam nut



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

1. **For portable use,** place the saw on a 3/4" 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. J)**

Fig. J



REMOVING OR INSTALLING THE BLADE

⚠ WARNING

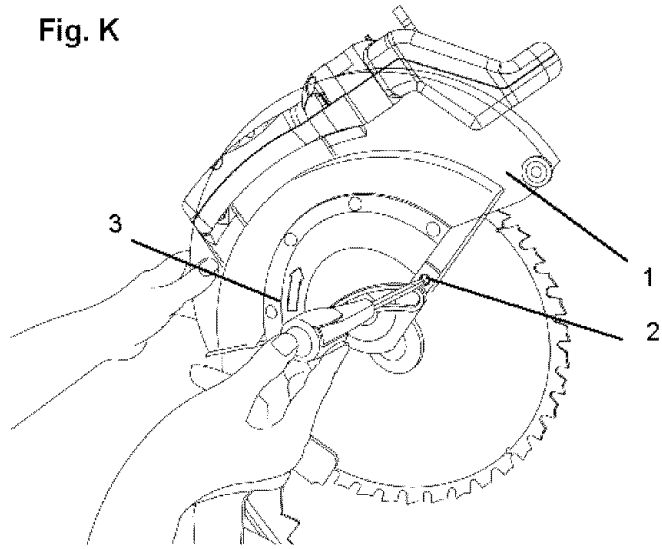
- Only use a 12-inch diameter blade.
- To avoid injury from an accidental start, make sure the switch is in the OFF position and plug is not connected to the power source outlet.

REMOVING (Fig. K, L, M)

⚠ WARNING

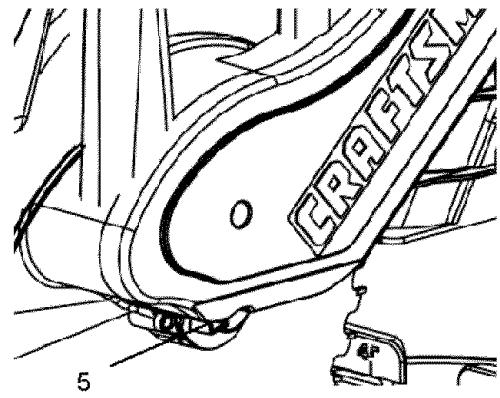
1. Unplug the saw from the outlet
2. Raise the miter saw to the upright position.
3. Raise the lower clear plastic blade guard (1) to the uppermost position. **(Fig. K)**
4. While holding the lower blade guard, loosen the cover plate screw (2) with a Phillips screwdriver.
5. Rotate the cover plate (3) to expose the arbor bolt (4).
6. Place the blade end wrench over the arbor bolt.

Fig. K



7. Locate the arbor lock (5) on the motor, below the belt cover. **(Fig. L)**
8. 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.

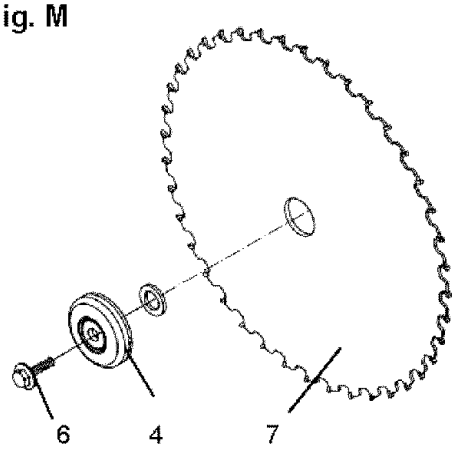
Fig. L



9. Remove the arbor bolt, the laser collar (6), and the blade (7). Do not remove the inner blade collar. **(Fig. M)**
10. Raise the lower clear plastic blade guard (1) to the upright position (**Fig. K**) 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" blade has a 1" arbor hole with a 5/8" reducer to mount onto the saw.

Fig. M



INSTALLING BLADE (Fig. K, L, M)

⚠ WARNING

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

1. Install a 12" blade with a 5/8" arbor (or a 1" arbor with a 5/8" 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.
2. Place the laser collar (4) against the blade and on the arbor. Thread the arbor bolt (6) on the arbor. **(Fig. M)** 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 laser collar must be placed against the blade.

3. Place the blade wrench on the arbor bolt.
4. 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. L)**
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.
6. Lower the clear retractable blade guard (1) and verify the operation of the guard does not bind or stick. **(Fig. K)**
7. Be sure the arbor lock is released so the blade turns freely by spinning the blade until the arbor lock disengages.

⚠ WARNING

- Make sure the collars are clean and properly arranged. Lower the blade into the lower table and check for any contact with the base or the turn table by spinning the blade manually.
- Make sure the collars are clean and properly arranged. Lower the blade into the lower table and check for any contact with the metal base or the turn table by spinning the blade manually.

BEVEL STOP ADJUSTMENTS

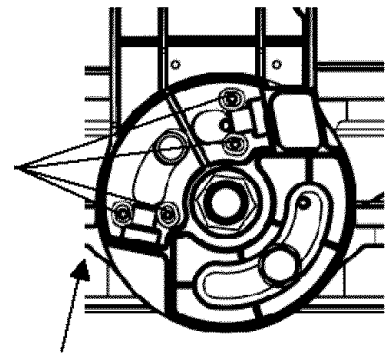
(Fig. N, N-1, N-2, O)

NOTE: To ensure accurate cuts, alignment should be checked and adjustments made prior to use.

0° Bevel adjustment (Fig N, N-2, O)

1. Loosen bevel lock handle (4 – Fig. O) and tilt the cutting arm while pushing in the bevel detent pin (1 – Fig. N-2) 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 – Fig. N) at the rear of the unit with a 5 mm hex wrench. Unlock the bevel lock handle and adjust the cutting arm zero degrees to the table. Tighten the bevel lock handle and the four hex bolts after alignment is achieved.

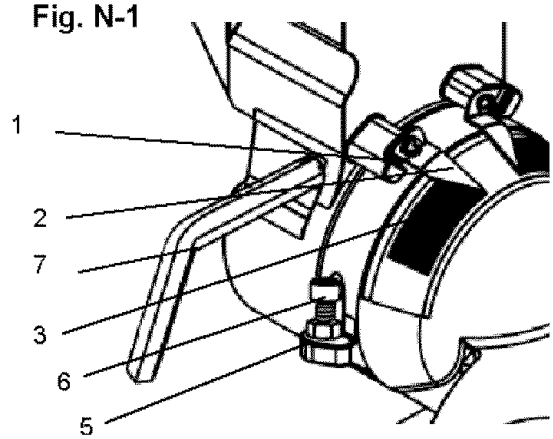
Fig. N



Bevel Scale Indicators (Fig. N-1)

1. When the 0° bevel adjustment is complete, adjust both indicators (2) so the tip of the pointers align with the 0° line on the bevel scale (3) by loosening the pointer screw (1) using a screwdriver then retighten the screw after adjustment is complete.

Fig. N-1



NOTE: View from left front of machine

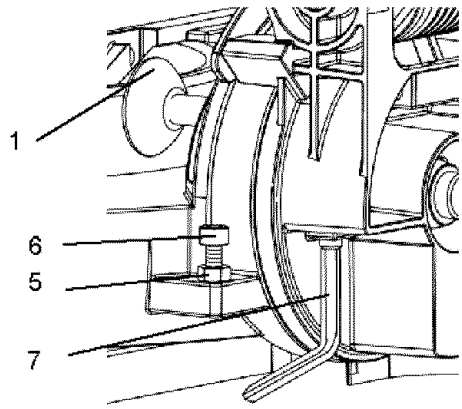
45° Left Bevel Positive Stop Adjustment

(Fig. N-1, N-2, O)

1. Set the miter angle to zero degrees. Fully extend the sliding fence completely to the left then pull the bevel detent pin (1 - Fig. N-2) 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 (4 – Fig. O) 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.
4. To adjust, tilt the cutting arm to zero degrees, loosen the locknut (5) and turn the bolt (6) in or out accordingly. (Fig. N-1)
5. Tilt the cutting arm back to the left and recheck alignment.
6. Repeat steps until the blade is 45° to the table. Once alignment is achieved, tighten the locknut (5) to secure the positive stop bolt. (Fig. N-1)

Fig. N-2



NOTE: View from rear of machine

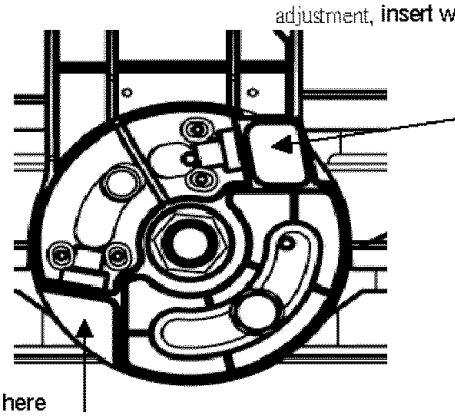
45° Right Bevel Positive Stop Adjustment (Fig. N-2, O)

1. Set the miter angle to zero degrees. Fully extend the sliding fence completely to the right then pull the bevel detent pin (1 - Fig. N-2) 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 (4 – Fig. O) 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.
4. To adjust, tilt the cutting arm to zero degrees, loosen the locknut (5) and turn the bolt (6) in or out accordingly. (Fig. N-2)
5. Tilt the cutting arm back to the right and recheck alignment.
6. Repeat steps until the blade is 45° to the table. Once alignment is achieved, tighten the locknut (5) to secure the positive stop bolt. (Fig. N-2)

33.9° Left & Right Bevel adjustment (Fig. N-3)

1. Set the miter angle to zero degrees. Fully extend both sliding fences.
2. 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.
3. 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. (Fig. N3)
5. Repeat steps for the right bevel 33.9° bevel adjustment.

Fig. N-3



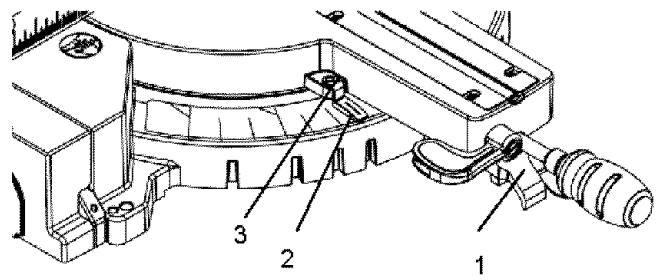
NOTE: View from rear of machine

MITER ANGLE ADJUSTMENT (Fig. O)

The sliding compound miter saw scale can be easily read showing miter angles from 0° to 45° to the left, and 0° to 60° to the right. The most common angle cut setting slots have positive stops, permitting fast adjustments to the desired position. Follow the process below for quickest and most accurate adjustments.

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

Fig. O



Miter Scale indicator (Fig. O)

1. Move the table to the 0° positive stop.
2. Loosen the screw (3) that holds the indicator with a screwdriver.
3. Adjust the indicator (2) to the 0° mark and retighten screw.

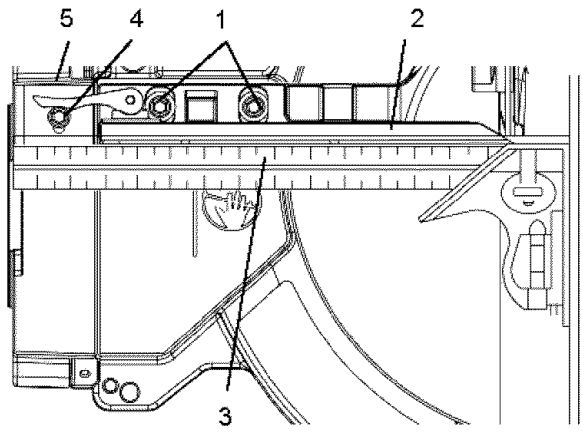
To Square Blade to Fence (Fig. P):

1. Turn the upper arm assembly to the 0° bevel position and lock in position.
2. Using a hex key wrench, loosen the four fence locking hex socket bolts (1) until the fence (2) is loose.
3. Lower the cutting head assembly and lock it in the down position with the stop pin.
4. Using a combination square (3), lay the heel of the square against the blade, and the rule against the fence (2) as shown. Check to see if the fence is 90° to the blade.
5. If an adjustment is necessary, shift the fence until it is square to the blade. Tighten the four fence locking bolts (1) once alignment is achieved. **CAUTION:** If the saw has not been used recently, recheck blade squareness to the fence and readjust if needed.

⚠ WARNING

To avoid injury:
Form unexpected starting or electrical shock, do not plug the saw in. The power cord MUST remain unplugged when you are working on the saw.

Fig. P



Positive Stop Miter Angle Adjustment: (Fig. Q)

1. Unlock the miter table by lifting up on the miter quick-cam table lock (3).
2. While raising the positive stop locking lever up (2), grasp the miter handle and rotate the miter table left or right to the desired angle.
3. 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 (3 – Fig. Q).

Quick-Cam Miter Table Lock Operation: (Fig. Q)

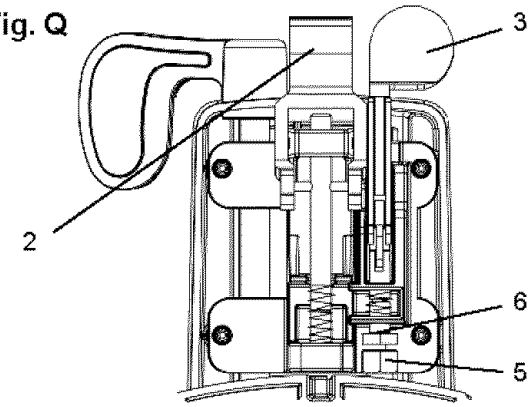
If miter angles required are NOT one of the ten positive stops noted above, the miter table can be locked at any angle between these positive stops by using the Miter Quick-Cam table lock.

1. Unlock the miter table by lifting up on the miter quick-cam table lock (3).
2. While holding the positive stop locking lever up (2), grasp the miter handle and move the miter table left or right to the desired angle.
3. Release the positive stop locking lever..
4. Press down on the Miter Quick-Cam locking lever (3) until it locks the miter table in place. NOTE: The miter Quick-Cam locking lever should lock the table and prevent it from moving. If adjustment is needed, see next step.

Quick-Cam Miter Table Lock Adjustment: (Fig. Q)

1. Press down and lock the Quick-cam the miter quick-cam table lock.
2. Turn the stop nut (5) to the left as shown using a 13mm wrench to extend the locking arm against the base of the miter saw.
3. Test the quick cam miter lock to verify it locks the table into position securely.
4. Turn the lock nut (6) to the right as shown to lock the miter locking mechanism into place.

Fig. Q

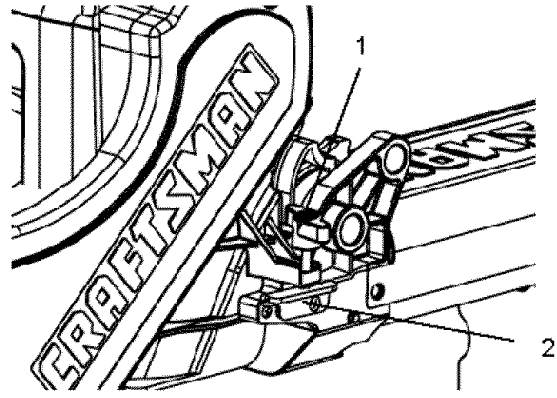


Setting Cutting Depth (Fig. R)

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

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

Fig. R



Maximum Cutting Depth (Fig. R)

The maximum depth travel of the cutting head was set at the factory. Check to see that the cutting head does not extend more than 1/4" 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 bolts of the stop plate (2).
2. Move the cutting head down until the blade extends just 1/4" below the table insert.
3. Adjust the stop place to touch the bottom of the stop knob (1) when the stop knob is raised fully.
4. 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.

THE LASER -TRAC®

Your tool is equipped with our latest innovation, the Laser -Trac®, a battery powered device using Class IIIa laser beams. The laser beams will enable you to preview the miter blade path on the workpiece to be cut before you begin your operation.

⚠ DANGER

Laser is activated when blade is rotating. Do not stare into beam or view directly with optical instruments. Do not remove the warning label affixed to the blade guard. Avoid direct eye contact with light source.

NOTE - The red laser line will appear as a dotted line when the motor is activated and the blade assembly is in the uppermost position. This broken line will assist you in aligning the mark on your workpiece with the cutting path of the saw blade. As you lower the blade assembly, the retractable guard will lift and turn the broken line into a solid red laser line.

Laser Warning label: Max output <5mW DIODE LASER: 630-670nm, Complies with 21CFR 1040.10 and 1040. 11.

OPERATION OF LASER

With the blade assembly in the uppermost position:

1. Position your workpiece onto the miter saw.
2. Turn on the miter saw to activate the laser beam.
3. Verify the laser beam is aligned with the mark on the workpiece (**WARNING** - Do not lower the blade assembly during the alignment process).
4. If the mark on the workpiece is not aligned with the dotted laser line, turn off machine, wait for the blade to stop and reposition workpiece.
5. Turn on the miter saw and verify alignment.
6. Once alignment is achieved, secure workpiece with a clamping device and perform the cut.

OPERATION

SAFETY INSTRUCTIONS FOR BASIC SAW OPERATION

BEFORE USING THE MITER SAW

⚠ 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, stop 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)**

⚠ WARNING

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°.

⚠ DANGER

Laser is activated when blade is rotating. Do not stare into beam or view directly with optical instruments. Do not remove the warning label affixed to the blade guard. Avoid direct eye contact with light source.

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.
  - 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 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. Don't put lubricants on the blade while it's spinning.
- Remove all adjusting wrenches from the tool before turning it on.

USE ONLY 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 inches 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 miter-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.

⚠ WARNING

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, don't do layout, assembly, or setup work on the miter saw.

- **Avoid accidental starting**
  Make sure the switch is OFF before plugging the miter saw into a power outlet.

PLAN YOUR WORK

- Use the right tool. Don't 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. 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.

DRESS FOR SAFETY

Any power tool can throw 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.

- 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.

DON'T 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 during the 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, possibly causing injury.
- Only the workpiece should be on the saw 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 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".

⚠ 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.

WHEN SAW IS RUNNING

⚠ WARNING

Don't 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. S)
Proper positioning of your body and hands when operating the miter saw will make cutting easier and safer. Never place hands near the cutting area. Place hands at least 8-3/4" away from the path of the blade. Hold workpiece firmly against the fence to prevent movement toward the blade. Keep hands in position until the trigger has been released and the blade has completely stopped. Before making a cut, with the power switch in the OFF position bring the saw blade down to the workpiece to see the cutting path of the blade.

- Keep children away. Keep all visitors a safe distance from the miter saw. Make sure bystanders are clear of the miter saw and workpiece.
- Don't force the tool. It will do the job better and safer at its designed rate. Feed the saw into the workpiece slowly with a firm downward motion.

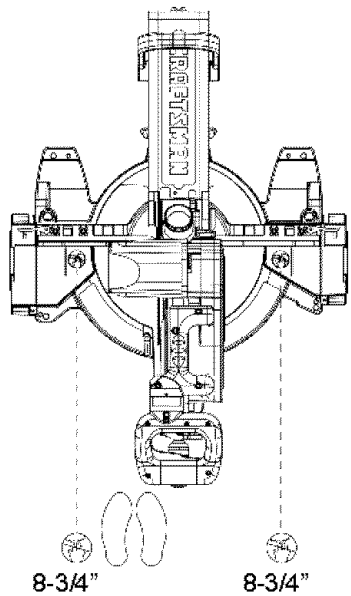
Before freeing jammed material.

- Turn switch OFF.
- Unplug the miter saw.
- Wait for all moving parts to stop.

After finishing a cut.

- Keep holding the power head down.
- Release the switch, and wait for all moving parts to stop before moving your hands.
- If the blade doesn't stop within 6 seconds, unplug the saw and follow the instructions in **THE TROUBLESHOOTING GUIDE** section for adjusting the blade brake before using the saw again.

Fig. S

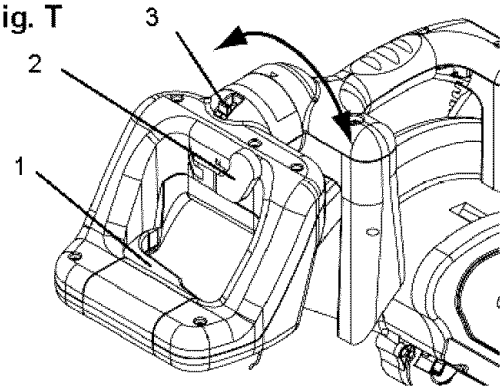


TURNING THE SAW ON (Fig. T)
Depress the trigger switch (1) to turn on the miter saw. started.

THREE POSITION ROTATING HANDLE (Fig. T)
The handle of the miter saw has been designed to rotate and lock at three different positive stops; 45° left, 0°, and 45° right for operator convenience. To rotate the handle:

1. Unlock the handle locking lever (2) by pulling it toward the front of the machine.
2. Pull the handle-locking latch (3) to the front of the saw and hold in position.
3. Rotate the handle to the desired positive 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.

Fig. T



SLIDING FENCE & REMOVE SLIDING FENCE (Fig. U)
Sliding Fence

⚠ WARNING

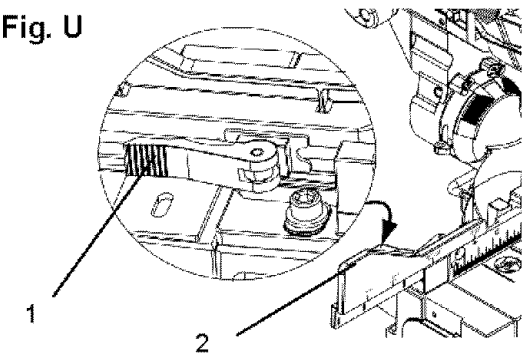
The sliding fence must be extended to the left or right when making bevel cuts. The sliding fences note three bevel angles where the user must adjust the fences to match the degree of the bevel cut. Failure to extend the sliding fence will not allow enough space for the blade to pass through which could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

⚠ WARNING

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°.

1. Unlock the fence cam locking lever (1) 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. U



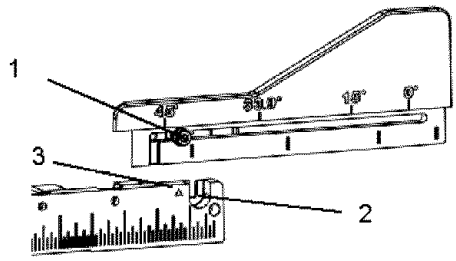
Removing or Installing the Right Sliding Fence
Removing (Fig. U-1)

1. 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).
2. To lock the sliding fence, push the cam-locking lever in toward the front of the machine.

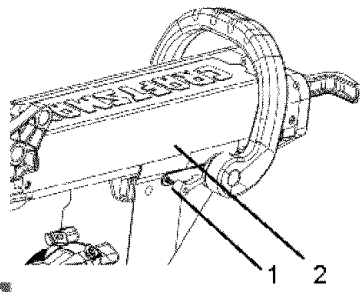
Fig. U-1



SLIDING CARRIAGE SYSTEM (Fig. V)

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 handle (1).
2. To cut wide boards up to 12-1/4", the carriage lock handle should be loosened to allow the cutting head to slide freely.

Fig. V



⚠ WARNING

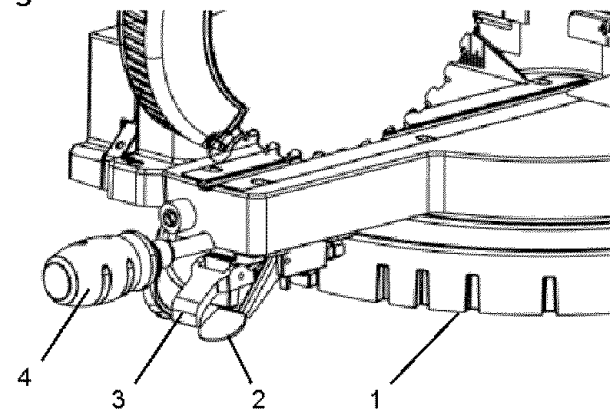
To avoid injury from materials being thrown, always unplug the saw to avoid accidental starting, and remove small pieces of material from the table cavity. The table insert may be removed for this purpose, but always reattach the table insert prior to performing a cutting operation.

MITER CUT (Fig. W)

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:

1. Unlock the miter table by lifting up on the miter quick-cam table lock (2).
2. While raising the positive stop locking lever up (3), grasp the miter handle (4) and rotate the miter table left or right to the desired angle.
3. 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 the desired miter angle is achieved, press down on the quick cam miter table lock to secure the table into position.
5. 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. W



BEVEL CUT (Fig. X)

⚠ WARNING

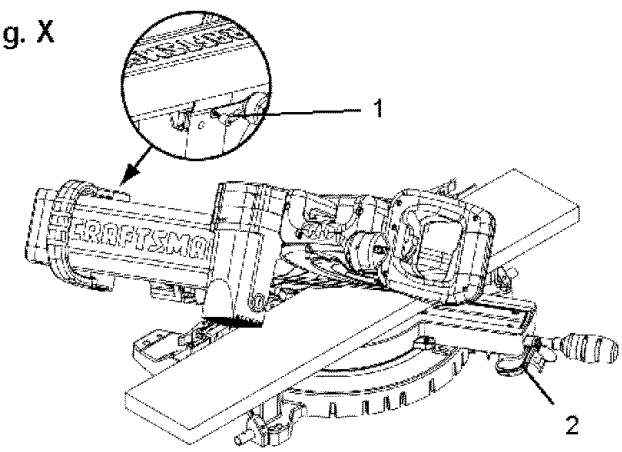
The sliding fence must be extended to the left or right when making bevel cuts. The sliding fences note three bevel angles where the user must adjust the fences to match the degree of the bevel cut. Failure to extend the sliding fence will not allow enough space for the blade to pass through which could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

⚠ WARNING

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 lock handle (2) by pushing down to lock the cutting head in position. Bevel positive stops are provided at 0°, 33.9° and 45°.

Fig. X



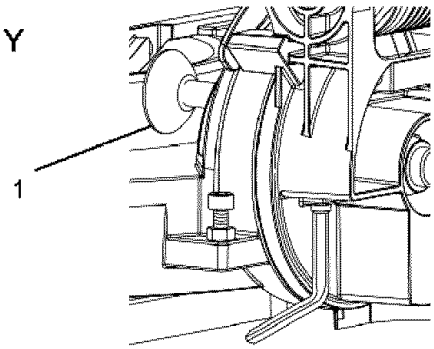
NOTE: The saw comes with a 33.9° bevel detent pin for setting up crown molding cuts.

33.9° BEVEL DETENT PIN FOR CROWN MOULDINGS (Fig. Y)

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

1. Loosen the bevel lock handle and tilt cutting arm to the 33.9° left bevel positive stop by pulling out on the bevel detent pin to move the arm from the 0° on the bevel angle, then by pushing in on the bevel detent pin toward the rear of the machine and allowing the upper arm assembly to stop at the 33.9°

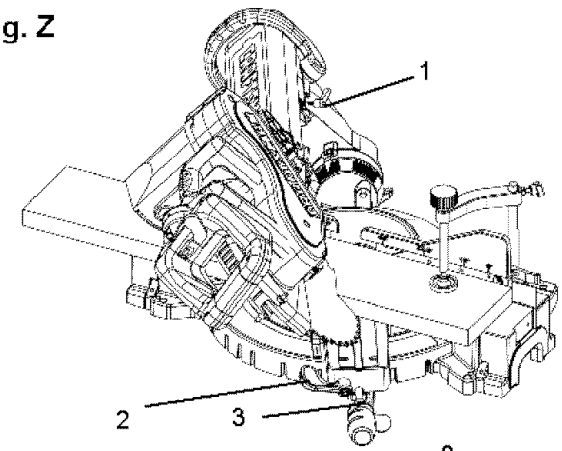
Fig. Y



COMPOUND CUT (Fig. Z)

1. 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).
3. Set the desired miter angle and lock into position. See "MITER CUT".

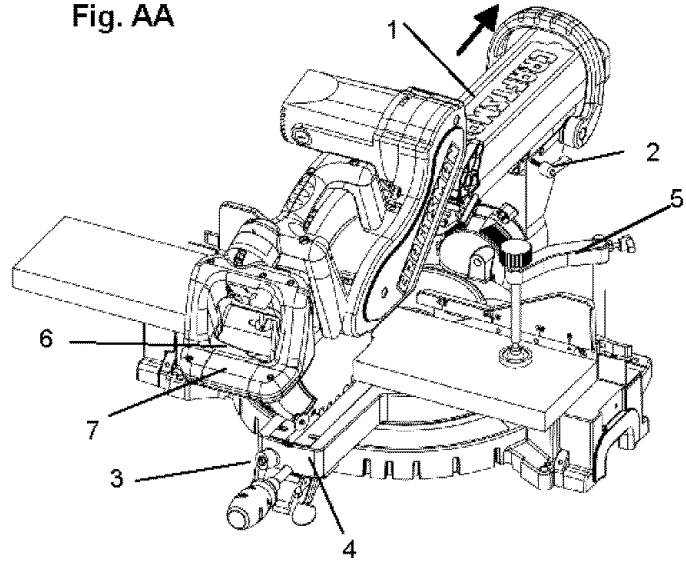
Fig. Z



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

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 handle (2).
2. Position the cutting head to the 0° bevel position and lock the bevel lock handle.
3. Position the table to the 0° miter angle and lock the quick cam miter table lock.
4. Position the workpiece on the table and against the fence. Use a hold down clamp (5) attached to the base, whenever possible.
5. Pull the trigger (6), turning on the saw. Lower the blade by pushing the handle (7) down into the workpiece with slow and even pressure.
6. When the cut is complete, release the switch and allow the blade to stop before raising the cutting head assembly.

Fig. AA



SLIDE CUTTING WIDE BOARDS UP TO 12-1/4" WIDE (Fig. BB)

⚠ WARNING

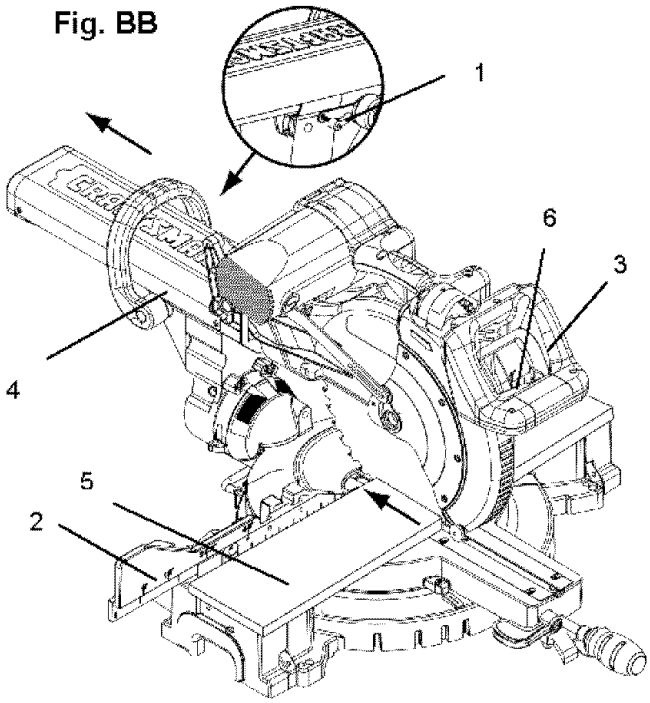
To avoid injury:

- **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 or REMOVE SLIDING FENCE".

TO SLIDE CUT WIDE BOARDS (FIG. BB)

1. Unlock the carriage lock handle (1) and allow the cutting head assembly to move freely.
2. Set both the desired bevel angle and/or the miter angle and lock into position.
3. If bevel cutting, set both the left and right sliding fences (2) to their proper location.
4. Use a hold down clamp to secure the workpiece.
5. Grasp the saw handle (3) and pull the carriage (4) forward until the center of the saw blade is over the front of the workpiece (5).
6. Pull the trigger (6) to turn the saw on.
7. When the saw reaches full speed, push the saw handle down, slowly, cutting through the leading edge of the workpiece.
8. Slowly move the saw handle toward the fence, completing the cut.
9. Release the trigger and allow the blade to stop spinning before allowing the cutting head to raise.

Fig. BB



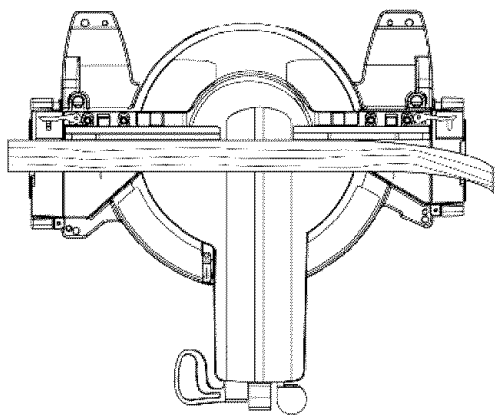
CUTTING BOWED MATERIAL (Fig. CC)

⚠ 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 table insert prior to performing a cutting operation.

Before cutting a workpiece, check to make sure it isnot bowed. If it is bowed, the workpiece must be positioned and cut as illustrated. Do not position the 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.

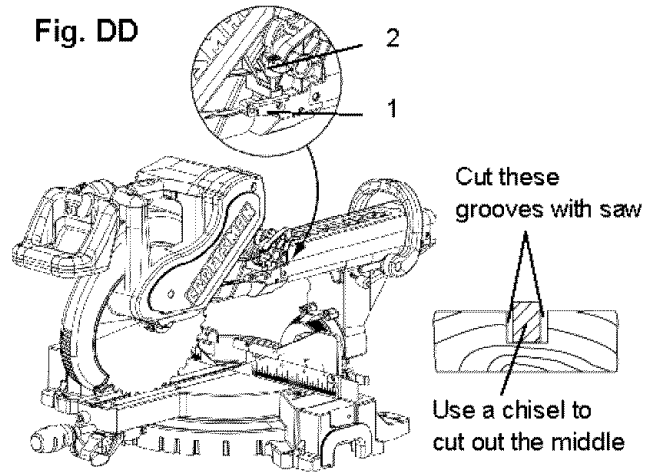
Fig. CC



ROUGH CUTTING A DADO (Fig. DD)

1. 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.
2. 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. DD

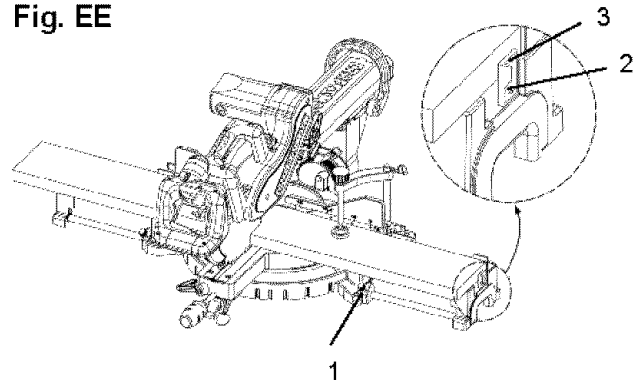


WORKPIECE SUPPORT & REPETITIVE CUTTING USING THE STOP PLATE (Fig. EE)

Long pieces need extension table support.

1. Loosen the knob (1) then slide the extension table to desired position and tighten the knob.
2. The stop plate is designed for use during repetitive cutting. Only use one stop plate at a time. Loosen the locking bolt (2), rotate the stop plate (3) to vertical position, and retighten the locking bolt.

Fig. EE

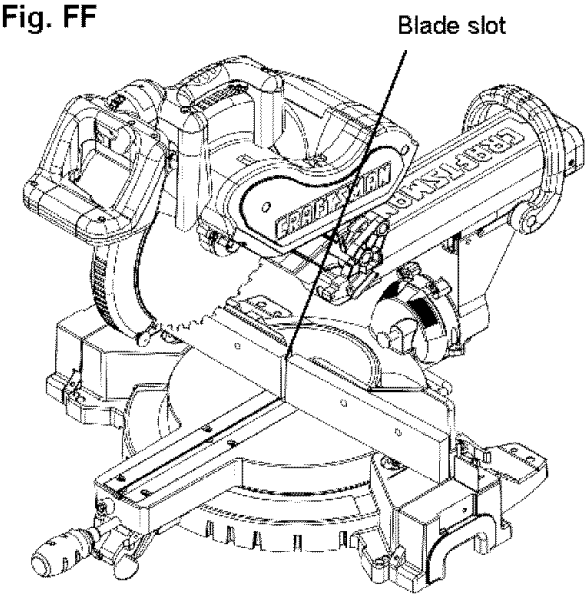


AUXILARY WOOD FENCE (Fig. FF)

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 inch thick by 3 inches high by 20-1/2 inches 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.

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.

Fig. FF

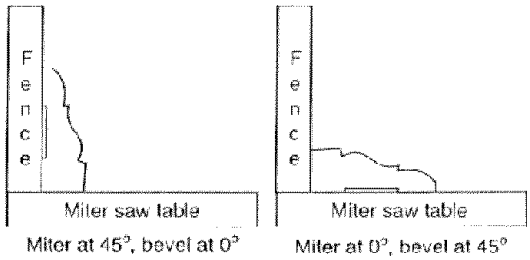


CUTTING BASE MOLDING (Fig. II)

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:

1. 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.
2. Reduce splintering by taping the cut area prior to making the cut. Mark the cut line directly on the tape.
3. Splintering typically happens due to an incorrect blade application and thinness of the material.

Fig. II



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. JJ, KK)

⚠ WARNING

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°.

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. Also keep in mind that the angles from crown molding are very easy for these angles to shift slightly, all settings should be tested on scrap molding.

Use crown molding vise, whenever possible, and place tape on the area being clamped to avoid marks. There is crown molding chart for your reference on page 25.

Fig. JJ

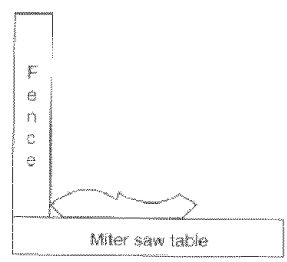
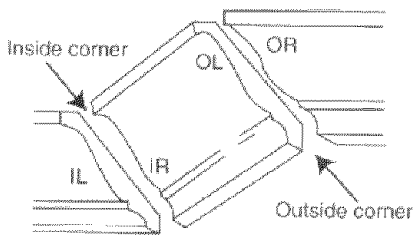


Fig. KK

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



Compound cut crown moldings

Bevel/Miter Settings

KEY	BEVEL SETTING	MITER SETTING	TYPE OF CUT
			Inside corner-Left side
IL	33.9°	31.6° Right	1.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	1.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	1.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° Right	1.Position top of molding against fence. 2.Miter table set at RIGHT 31.6°. 3.RIGHT side is finished piece.

CHANGING THE LASER BATTERIES

CHANGING THE BATTERIES (Fig. LL)

- Unplug your saw.

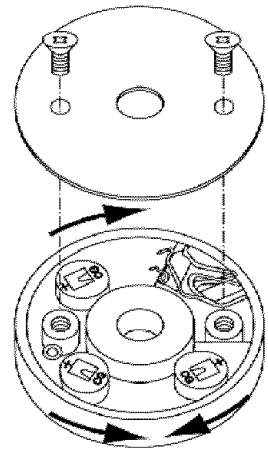
⚠ WARNING

Failure to unplug your saw could result in accidental starting causing possible serious personal injury.

1. Remove the laser guide from the saw.
2. Loosen and remove the two screws, then remove the laser guide cover.
3. Remove the three batteries as arrow on Fig. LL and replace new batteries.
4. Replace the laser guide cover and two screws and tighten.

Note: Replace the batteries with batteries that have a rating of 1.5 volts (Number LR44).
When replacing the batteries, the battery cover should be thoroughly cleaned. Use a soft paintbrush or similar device, to remove all sawdust and debris.

Fig. LL

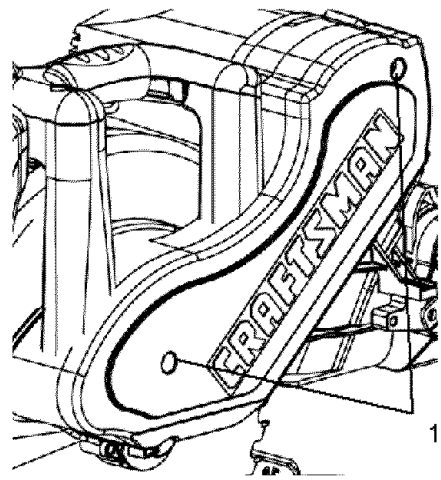


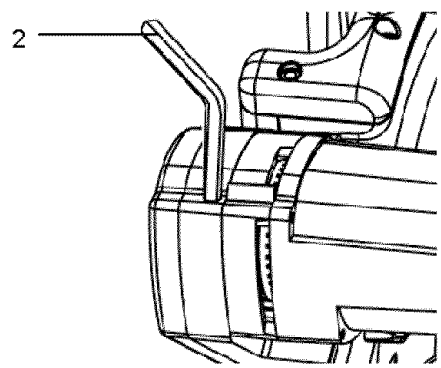
CHANGING THE BELT (Fig. KK)

- Unplug your saw.

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

Fig. KK





Crown Molding Chart

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

Angle Between Walls	52/38° Crown Molding		45/45° Crown Molding	
	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	40.50	45.81	35.64
70	41.32	40.20	45.28	35.40
71	40.79	39.90	44.75	35.15
72	40.28	39.61	44.22	34.89
73	39.76	39.30	43.70	34.64
74	39.25	39.00	43.18	34.38
75	38.74	38.69	42.66	34.12
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	31.14
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	32.85	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	27.95	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	22.65
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
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	14.65	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	14.68
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	12.28
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	5.59
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	3.18
172	2.47	3.15	2.83	2.83
173	2.15	2.75	2.48	2.47
174	1.85	2.36	2.12	2.12
175	1.54	1.97	1.77	1.77
176	1.23	1.58	1.41	1.41
177	0.92	1.18	1.06	1.06
178	0.62	0.79	0.71	0.71
179	0.31	0.39	0.35	0.35

MAINTENANCE

MAINTENANCE

DANGER

Never put lubricants on the blade while it is spinning.

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

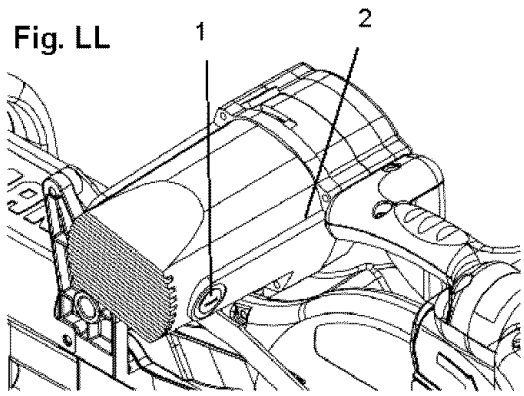
For your safety, this saw is double-insulated. To avoid electrical shock, fire or injury, use only parts identical to those identified in the parts list. Reassemble exactly as the original assembly to avoid electrical shock.

REPLACING CARBON BRUSHES (FIG. LL)

The carbon brushes furnished will last approximately 50 hours of running time, or 10,000 ON/OFF cycles. Replace both carbon brushes when either has less than 1/4" 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 spring-loaded. Then pull out the brush and replace. Replace the other side in the same manner. 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.

Fig. LL



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 guard 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.

CAUTION: Do not use solvents on the guard. They could make the plastic "cloudy" and brittle.

⚠ WARNING

When cleaning the lower guard, unplug the saw from the power source receptacle to avoid unexpected startup.

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.

⚠ WARNING

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

LUBRICATION

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 Required:

Chop pivot: light machine oil or aerosol will penetrate from the ends of the junction points. A qualified service technician can remove the pivot upstop to relieve tension, and the 2 metric set screws holding the shaft, in order to drive the shaft about 3/4" right. Exposed surfaces are lubricated with automotive type oil.

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.

TROUBLESHOOTING GUIDE

⚠ WARNING

To avoid injury from accidental starting, always turn the switch OFF and unplug the tool before moving, replacing the blade or making adjustments.
Consult your Sears Service Center if for any reason the motor will not run.

TROUBLESHOOTING GUIDE - MOTOR

PROBLEM	PROBLEM CAUSE	SUGGESTED CORRECTIVE ACTION
Brake does not stop blade within 6 seconds.	1. Motor brushes not sealed or lightly sticking. 2. Motor brake overheated from use of defective or wrong size blade or rapid ON/OFF cycling. 3. Arbor screw loose. 4. Other.	1. Inspect / clean / replace brushes. See MAINTENANCE section. 2. Use a recommended blade. 3. Let cool down. Retighten. 4. Contact Sears Service Center.
Motor does not start	1. Fuse 2. Brush worn. 3. Other.	1. 15-Amp time delay fuse, or circuit breaker. 2. See MAINTENANCE section. 3. Contact Sears Service Center.
Brush spark when switch released.	1. Brushes Worn/Damaged	1. Replace Brushes (See Maintenance).

TROUBLESHOOTING GUIDE – SAW OPERATION

PROBLEM	PROBLEM CAUSE	SUGGESTED CORRECTIVE ACTION
Blade hits table.	1. Misalignment.	1. See ADJUSTMENT section.
Angle of cut not accurate. Can't adjust miter.	1. Miter table unlocked. 2. Sawdust under table.	1. Use Miter Quick Lock. See OPERATION Section. 2. Vacuum or blow out dust, WEAR EYE PROTECTION.
Cutting arm wobbles.	1. Loose pivot points.	1. See ADJUSTMENT Section.
Cutting arm won't fully raise, or blade guard won't fully close.	1. Part failure. 2. Pivot spring not replaced properly after service. 3. Sawdust build-up.	1. Contact Sears Service Center. 2. Contact Sears Service Center. 3. Clean and lubricate moving parts.
Blade binds, jams, burns wood.	1. Improper operation. 2. Dull blade. 3. Improper blade size. 4. Warped blade.	1. See BASIC SAW OPERATION section. 2. Replace or sharpen blade. 3. Replace with 12" diameter blade. 4. Replace blade.
Saw vibrates or shakes.	1.Saw blade not round. 2.Saw blade damaged. 3.Saw blade loose. 4.Other.	1.Replace blade. 2.Replace blade. 3. Tighten arbor bolt. 4.Contact Sears Service Center.

PARTS

CRAFTSMAN COMPOUND MITRE SAW MODEL : 137.212060

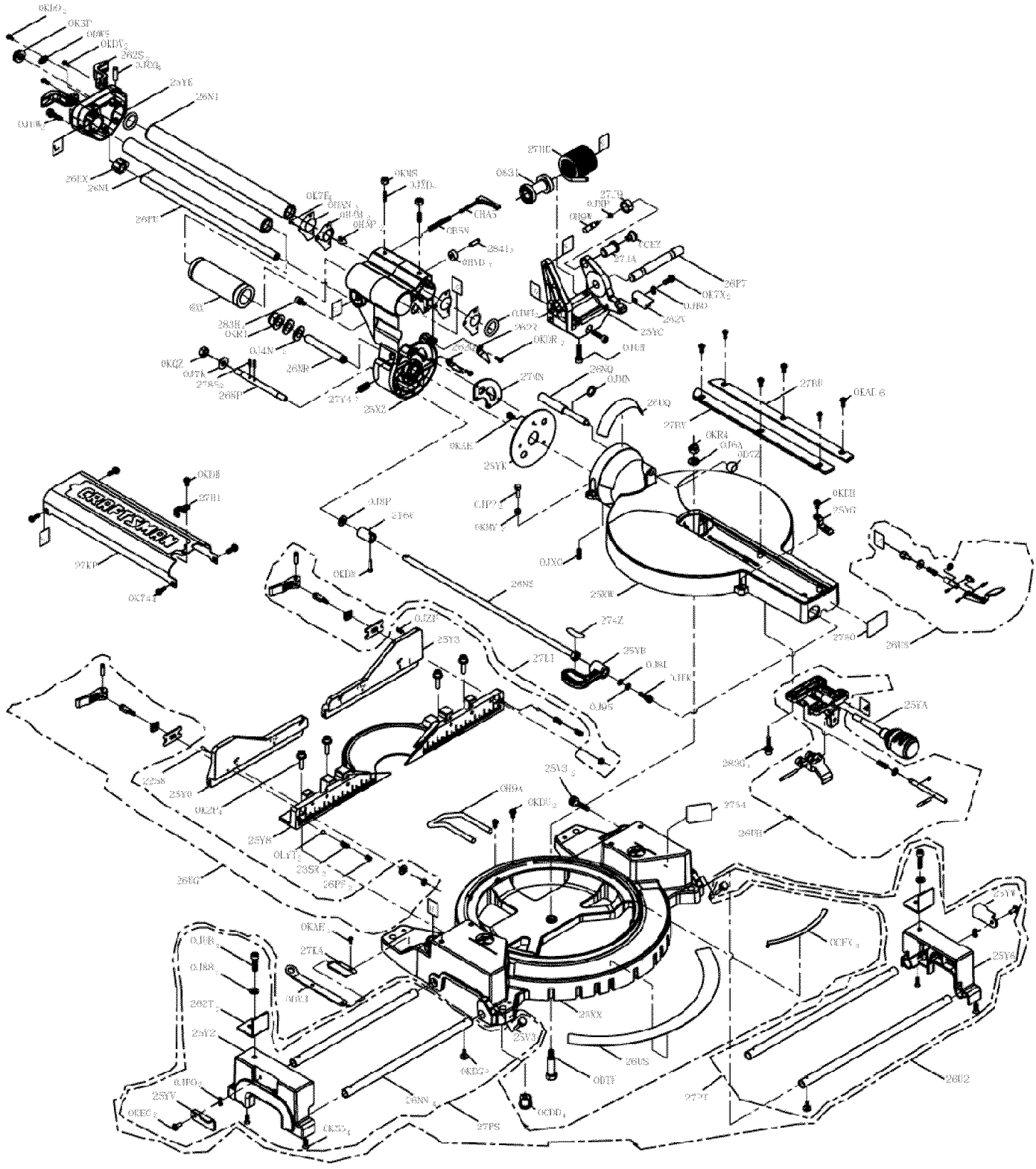
⚠ WARNING

When servicing use only CRAFTSMAN replacement parts. Use of any other parts may create a HAZARD or cause product damage. Any attempt to repair or replace electrical parts on this Table 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 SCHEMATIC A

I.D. No.	Description	Size	Qty
0831	SHAFT SLEEVE	6# COLOR	1
2258	BOLT		1
2750	CAUTION LABEL		1
2754	WARNING LABEL		1
2785	ROLL PIN	φ4-22	2
2841	CENTER SHAFT		2
0B5N	COMPRESSION SPRING		1
0CDD	FOOT	6# COLOR	4
0CEZ	PLUNGER HANDLE		1
0CFX	SLIDE PLATE		3
0D7Z	KNOB		1
0DTH	CENTER SHAFT		1
0DVJ	BLADE WRENCH		1
0DW5	POWER CORD CLAMP	6#	1
0H9A	REAR EXTENTION SUPPORT BAR		1
0H9W	CLEVIS PIN		1
0HA5	LOCKING HANDLE ASS'Y		1
0HAM	DUST SHIELD		2
0HAN	COVER PLATE		2
0HAP	SLIDE-BAR GUIDE CLAMP		2
0HVD	BALL BEARING	608ZZ	2
0HXX	LINEAR MOTION BEARING		1
0J4N	FLAT WASHER	φ16x30-3	2
0J6A	FLAT WASHER	φ8x16-2.5	1
0J7K	FLAT WASHER	3/8x29/32-5/64	1
0J88	FLAT WASHER	10#x1/2-1/16	2
0J8L	FLAT WASHER	1/4x7/16-1/16	1
0J8P	FLAT WASHER	3/8x29/32-5/64	1
0J95	SPRING WASHER	φ6	1
0JB0	WAVE WASHER	WW-8	1
0JB0	WAVE WASHER	WW-8	2
0JCG	SPRING PIN	5-16	4
0JMN	O-RING		1
0JMP	O-RING	P7	1
0JMT	O-RING	P30	2
0JPP	HEX BOLT	M8x1.25-30	2
0JUB	HEX. SOC. HD. CAP BOLT	M5x0.8-12	2
0JUK	HEX. SOC. HD. CAP BOLT	M6x1.0-16	1
0JUM	HEX. SOC. HD. CAP BOLT	M6x1.0-25	1
0JUW	HEX. SOC. HD. CAP BOLT	M8x1.25-25	2
0JXD	HEX. SOC. SETSCREW	M6x1.0-25	2
0JXG	HEX. SOC. SETSCREW	M8x1.25-16	1
0JZF	HEX. SOC. SETSCREW	M6x1.0-10	1
0K2P	HEX.SOCKET HD.CAP SCREW	M8X1.25-40	4
0K55	CR. RE. COUNT HD. SCREW	M5x0.8-8	4
0K74	CR.-RE. TRUSS HD. SCREW	M6x1.0-8	4
0K7F	CR. RE. ROUND WASHER HD. SCREW	M6x.0-8	4
0K7X	CR RE TRUSS HD. ROUND NECK SCREW	M6X1.0-10	2
0KAD	CR. RE. TRUSS HD. TAPPING SCREW	M4x0.7-8	6
0KAE	CR. RE. TRUSS HD. TAPPING SCREW	M5x0.8-10	1
0KAE	CR.RE. PAN HD. TAPPING SCREW	M5X0.8-10	2
0KD9	CR. RE. PAN HD. SCREW	M4x0.7-16	2
0KDG	CR. RE. PAN HD. SCREW	M5x0.8-6	2
0KDH	CR. RE. PAN HD. SCREW	M5x0.8-8	1
0KDH	CR. RE. PAN HD. SCREW	M5x0.8-8	1
0KDM	CR. RE. PAN HD. SCREW	M5x0.8-20	1
0KDR	CR. RE. PAN HD. SCREW	M5x0.8-10	2
0KDU	CR. RE. PAN HD. SCREW	M6x1.0-12	2
0KDV	CR. RE. PAN HD. SCREW	M6x1.0-16	2
0KEG	CR. RE. PAN HD. SCREW	M5x0.8-8	2
0KMS	HEX. NUT	M6x1.0 T=5	2
0KMY	HEX. NUT	M8x1.25 T=6.5	2
0KQZ	LOCK NUT	M10x1.5 T=10	1
0KR1	LOCK NUT	M16x2.0 T=16	1
0KR4	LOCK NUT	M8x1.25 T=8	1
0KSP	STRAIN RELIEF		1
0LYT	HEX. SOC. SET SCREW	M6x1.0-25	2
23SR	COMPRESSION SPRING		2
25V3	KNOB		2
25V3	KNOB		2
25XW	TABLE	COLOR #AW	1
25XX	BASE	COLOR #AW	1
25XZ	PIVOT BRACKET		1
25Y0	SLIDING FENCE – LEFT SIDE	COLOR #AW	1
25Y2	EXTENTION WING – LEFT SIDE		1
25Y3	SLIDING FENCE – RIGHT SIDE		1
25Y6	EXTENTION WING	COLOR #AW	1
25Y8	FENCE	COLOR #AW	1
25YA	MITER HANDLE		1
25YB	BEVEL HANDLE		1
25YC	SLIDE-BAR SEAT (FRONT)		1
25YE	SLIDE-BAR SEAT (REAR)		1
25YG	NEEDLE POINTER		1
25YK	SET PLATE		1
25YV	STOP PLATE (LEFT)		1
25YW	STOP PLATE (RIGHT)		1
262Q	BEVEL SCALE POINTER		1
262R	BEVEL SCALE POINTER		1
262S	POWER CORD STORAGE CLIP		2
262T	FENCE PLATE		2
262V	ANCHOR PLATE		1
26HX	GUIDE HOLDER		1
26NH	NUT		1
26NN	EXTENSION TUBE		4
26NP	BOLT		1
26NQ	LOCATING BAR		1
26NR	PIVOT SHAFT		1
26NS	LOCKING ROD		1
26NT	MITER BAR RIGHT		1
26NU	MITER BAR LEFT		1
26P7	PIVOT SHAFT		1
26PF	HEX. SOC. SET SCREW	M8x1.25-6	2
26PU	MITER BAR LOWER		1
26U2	EXTENTION WING ASS'Y – LEFT & RIGHT		1
26U6	QUICK-CAM MITER TABLE LOCK ASSY.		1
26UG	CAM LOCKING LEVER ASSY.		1
26UH	POSITIVE STOP LOCKING LEVER ASSY.		1
26UQ	BEVEL SCALE		1
26US	MITER SCALE		1
274Z	BEVEL LOCK LABEL		1
27BU	TABLE INSERT – RIGHT SIDE		1
27BV	TABLE INSERT – LEFT SIDE		1
27H1	CLAMP-CORD		1
27HE	TORSION SPRING		1
27J9	SET NUT		1
27JA	SCREW STOP		1
27KA	ECCENTRIC SPANNER SEAT		1
27KP	SLIDE CARRIAGE COVER PLATE		1
27L1	CAM LOCKING LEVER ASSY.		1
27MN	ANCHOR PLATE		1
27PS	EXTENSION TABLE ASS'Y-LEFT		1
27PT	EXTENSION TABLE ASS'Y-RIGHT		1
27Y4	HEX. SOC. SET SCREW	M6x1.0-16	2
283G	HEX.SOCKET HD.CAP SCREW	M6x0.8-20	4
283H	HEX. SOC. HD. CAP BOLT	M5x0.8-12	4

SCHEMATIC A

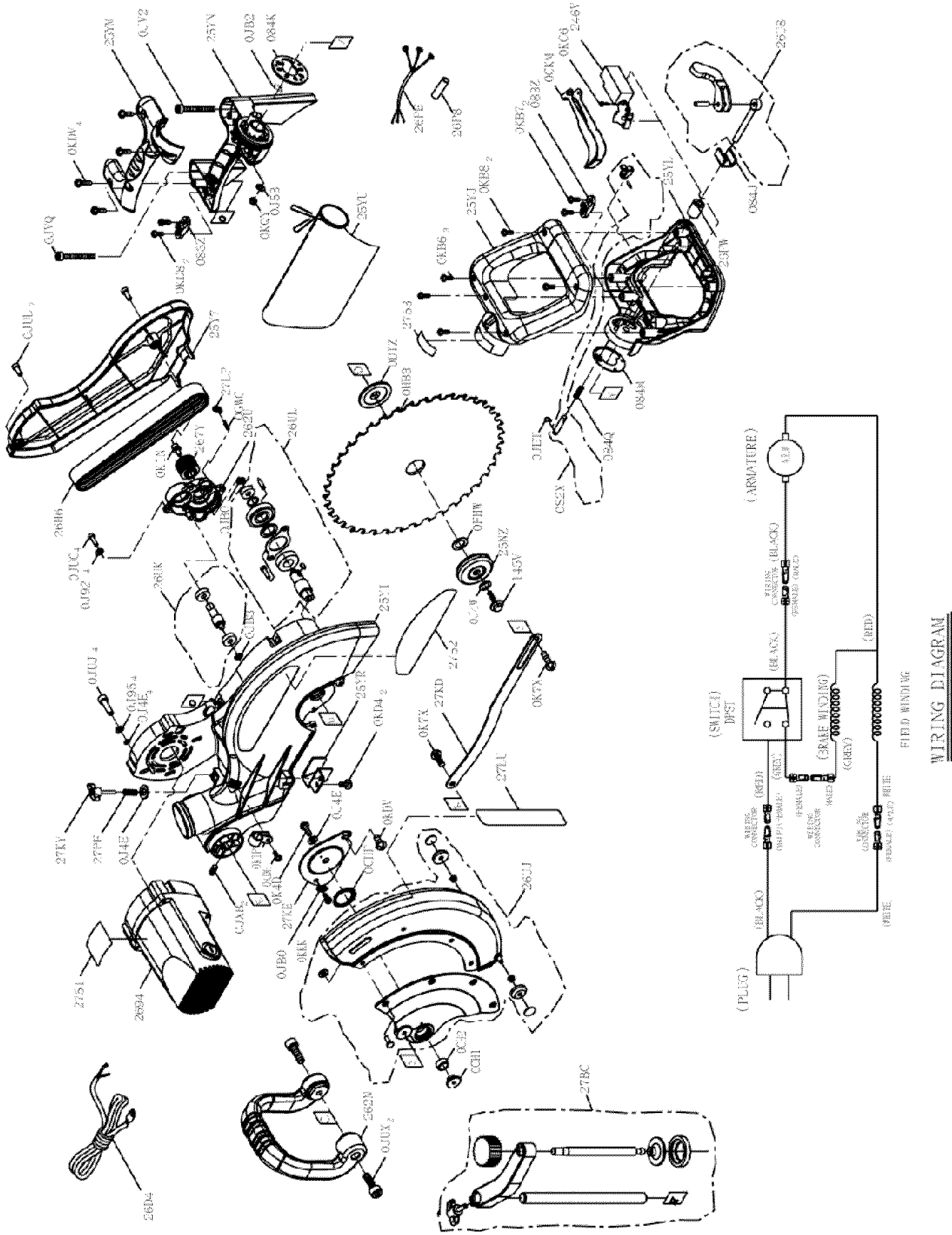


CRAFTSMAN COMPOUND MITRE SAW MODEL : 137.212060

PARTS LIST FOR SCHEMATIC B

I.D. No.	Description	Size	Qty
2694	MOTOR ASS'Y		1
2751	MOTOR LABEL		1
2752	TRADE-MARK LABEL		1
2753	TILTING SCALE		1
083Z	CLAMP-CORD		1
083Z	CLAMP-CORD		1
084J	CUSHION		1
084K	SET PLATE		1
084M	STOP CLAMP		1
084Q	COMPRESSION SPRING		1
0CH1	SHAFT-PIVOT		1
0CH2	SLEEVE		1
0CHF	SPRING GUARD		1
0CKM	TRIGGER		1
0DTZ	ARBOR COLLAR		1
0FHW	COLLAR		1
0HB3	BLADE		1
0J4E	FLAT WASHER	φ6x13-1	1
0J4E	FLAT WASHER	φ6x13-1	1
0J4E	FLAT WASHER	φ 6X13-1	4
0J4W	FLAT WAHSER	φ 8.2X18-1.5	1
0J53	FLAT WASHER	φ8.4x24-2	1
0J92	SPRING WASHER	Φ5	4
0J95	SPRING WASHER	φ6	4
0JB0	WAVE WASHER	WW-8	1
0JB0	WAVE WASHER	WW-8	1
0JB2	WAVE WASHER	WW-12	1
0JB3	WAVE WASHER	WW-14	1
0JET	E-RING	E-4	1
0JUC	HEX. SOC. HD. CAP BOLT	M5x0.8-16	2
0JUJ	HEX. SOC. HD. CAP BOLT	M6x1.0-12	4
0JUL	HEX. SOC. HD. CAP BOLT	M6x1.0-20	4
0JUX	HEX. SOC. HD. CAP BOLT	M8x1.25-30	2
0JV2	HEX. SOC. HD. CAP BOLT	M8x1.25-60	1
0JVQ	HEX. SOC. HD. CAP BOLT	M8x1.25-50	1
0JXB	HEX. SOC. SET SCREW	M6x1.0-16	2
0K1N	HEX. HD. SCREW AND WASHER	M6x1.0-16	1
0K4D	CR.RE. PAN HD. SCREW & WASHER	M6x1.0-12	1
0K7X	CR. RE. TRUSS HD. ROUND NECK SCREW	M6X1.0-10	2
0KB6	CR.RE. PAN HD. TAPPING SCREW	M4X18-35	3
0KB7	CR.RE. PAN HD. TAPPING SCREW	M4X18-16	2
0KB8	CR.RE. PAN HD. TAPPING SCREW	M4X18-20	2
0KC6	CR. RE. TRUSS HD. TAPPING SCREW	M4x6-12	1
0KD4	CR. RE. PAN HD. SCREW	M6x1.0-10	2
0KD8	CR. RE. PAN HD. SCREW	M4x0.7-12	2
0KDH	CR. RE. PAN HD. SCREW	M5x0.8-8	1
0KDV	CR. RE. PAN HD. SCREW	M6x1.0-16	5
0KKK	CR.RE. PAN HD. ROUND NECK SCREW	M6x1.0-12	1
0KQY	NUT	M8x1.25 T=8	1
0KTP	CABLE CLAMP		1
0S2X	LOCK HANDLE ASS'Y		1
145V	HEX WASHER HD BOLT	M8x1.25-16	1
246V	TRIGGER SWITCH		1
25NZ	LASER ASS'Y		1
25Y1	ARM		1
25Y7	BELT COVER		1
25YJ	HANDLE – TOP		1
25YL	HANDLE - BOTTOM		1
25YM	CARRY HANDLE – TOP		1
25YN	CARRY HANDLE – BOTTOM		1
25YR	PLATE		1
25YU	DUST BAG ASSY.		1
262N	CARRY HANDLE – REAR		1
262U	GEAR BOX COVER		1
267Y	PULLEY		1
26D4	POWER CABLE		1
26H6	BELT		1
26P8	INSULATING SLEEVE		1
26PE	LEAD WIRE ASS'Y		1
26PW	SPACER		1
26U8	LOCKING HANDLE ASS'Y		1
26UJ	PC-GUARD ASS'Y		1
26UK	GEAR SHAFT ASS'Y		1
26UL	CUTTER SHAFT ASS'Y		1
27BC	SAFETY HOLD-DOWN CLAMP		1
27KD	LEVER		1
27KE	CUTTER SHAFT GUARD		1
27KY	CLAMP BOLT		1
27LP	LOCK KNOB		1
27LU	WARNING LABEL		1
27PF	COMPRESSION SPRING		1
27WC	COMPRESSION SPRING		1
279X	***INSTRUCTION MANUAL***		***1***

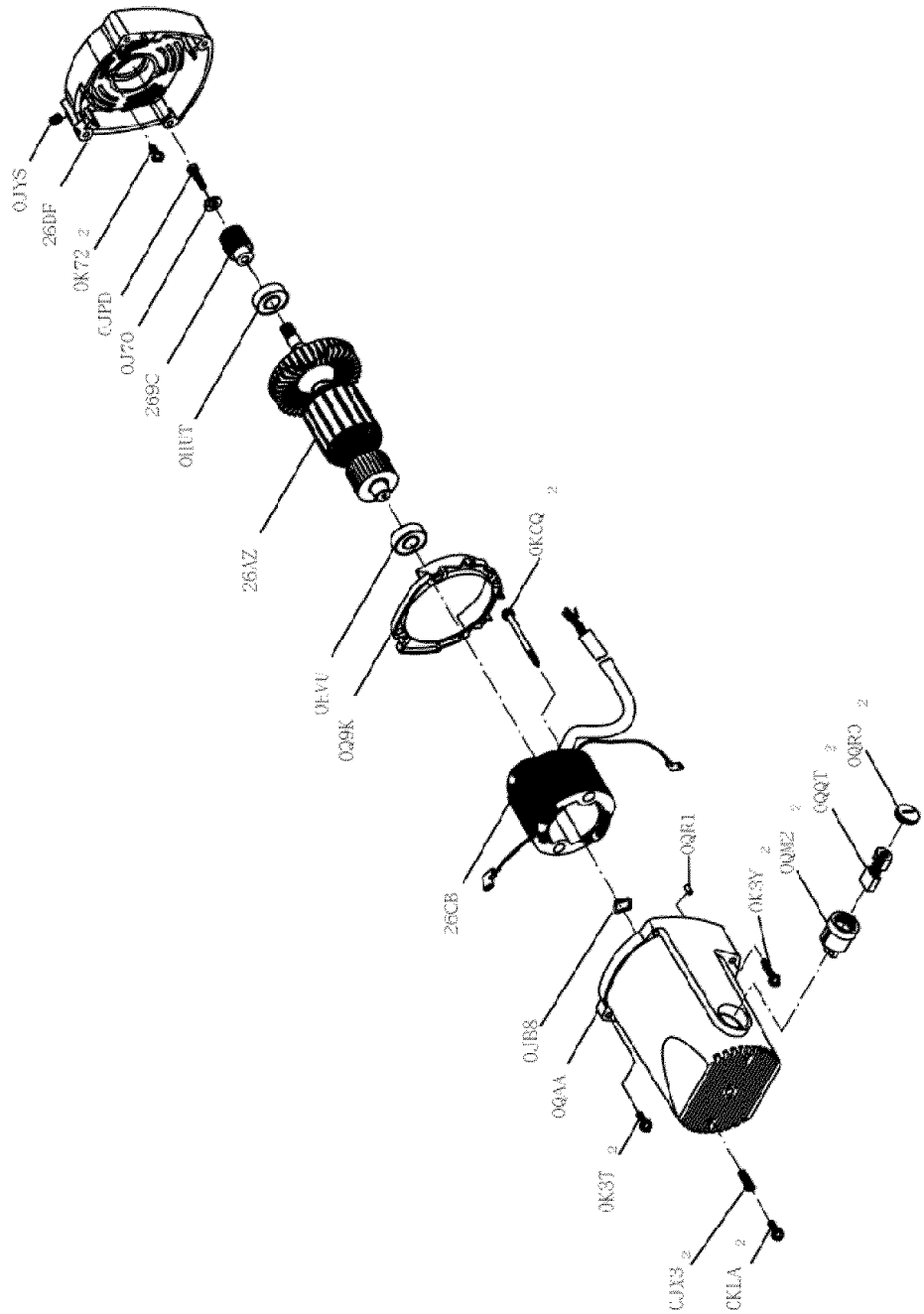
SCHEMATIC B


WIRING DIAGRAM
(ARMATURE)
(SWITCH)
DPST
(BRAKE WIGGING)
(PLUG)
(BLACK)
(RED)
(GREY)
(WHITE)
FIELD WINDING

PARTS LIST FOR MOTOR

I.D. No.	Description	Size	Qty
0HUT	BALL BEARING	6202LLB	1
0HVU	BALL BEARING	6200ZZ	1
0J70	FLAT WASHER	1/4x3/4-7/64	1
0JB8	WAVE WASHER	BWW6200	1
0JPD	HEX. HD. BOLT	M6x1.0-16	1
0JX3	HEX. SOC. SET SCREW	M5x0.8-8	2
0JYS	HEX. SOC. SET SCREW	M6x1.0-16	1
0K3T	CR.RE. PAN HD. SCREW & WASHER	M5X0.8-25	2
0K3Y	CR.-RE. PAN HD. SCREW & WASHER	M5×0.8-50	2
0K72	CR.-RE. TRUSS HD. SCREW	M5X0.8-12	2
0KCQ	CR.-RE.PAN HD.TAPPING SCREW & WASHER	M5×12-65	2
0KLA	PLASTIC SCREW	M5×0.8-6	2
0Q9K	FLOW GUIDE		1
0QAA	MOTOR HOUSING ASS'Y	#6	1
0QM2	BRUSH HOLDER ASS'Y	Φ27x26.5	2
0QQT	BRUSH ASS'Y		2
0QR0	BRUSH COVER		2
0QR1	RUBBER PIN		1
269C	MOTOR PULLEY		1
26AZ	ARMATURE ASS'Y		1
26CB	FIELD ASS'Y		1
26DF	FRONT HOUSING	AW# COLOR	1

MOTOR


0JYS
26DF
2
0K72
0JPD
0J70
269C
0HUT
26AZ
0KCQ
2
0FVU
0Q9K
26CB
0QR1
0K3Y
2
0QM2
2
0Q9T
2
0QRO
2
0JB8
0QAA
0K3T
2
0JX3
2
0KLA
2

NOTES

NOTES