

# ET-3407-J 14-INCH ABRASIVE CHOP SAW



JOHN DEERE

**OPERATOR'S  
MANUAL**



**CAUTION**  
**RISK OF INJURY!**  
READ MANUAL BEFORE OPERATING!  
THIS MANUAL IS AN IMPORTANT PART OF THE CHOP SAW  
AND SHOULD REMAIN WITH THIS UNIT WHEN YOU SELL OR RENT IT.

# Introduction

Congratulations on the purchase of your new Chop Saw! You can be assured your chop saw was constructed and designed with quality and performance in mind. Each component has been rigorously tested to ensure the highest level of acceptance.

This operator's manual was compiled for your benefit. By reading and following the simple safety, installation, operation, maintenance and troubleshooting steps described in this manual, you will receive years of trouble-free operation from your new tool. The contents of this manual are based on the latest product information available at the time of publication. The manufacturer reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.

Once the unit has been removed from the box, immediately write in the serial number of your unit in the space provided below.

**SERIAL NUMBER** \_\_\_\_\_

Inspect for signs of obvious or concealed freight damage. If damage does exist, file a claim with the transportation company immediately. Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit. If you require service, contact your Customer Service.

Mi-T-M® Corporation, 8650 Enterprise Drive, Peosta, IA 52068  
1-877-JD-KLEEN / (1-877-535-5336) Fax 563-556-1235  
Monday - Friday 8:00 a.m. - 5:00 p.m. CST

Please have the following information available for all service calls:

1. Model Number
2. Serial Number
3. Date and Place of Purchase

## **WARNING**

### **WEAR RESPIRATORY PROTECTION**

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain 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-base paints,
- Crystalline Silica from bricks, cement and other masonry products, and
- 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 those dust masks that are specially designed to filter out microscopic particles.

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# Safety

## RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your tool or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



## UNDERSTAND SIGNAL WORDS

A "DANGER, WARNING or CAUTION" safety warning will be surrounded by a "SAFETY ALERT BOX." This box is used to designate and emphasize Safety Warnings that must be followed when operating this tool.

Accompanying the Safety Warnings are "signal words" which designate the degree or level of hazard seriousness. The "signal words" used in this manual are as follows:

**DANGER:** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

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

**CAUTION:** Indicates a potentially hazardous situation which, if not avoided MAY result in minor or moderate injury.

**▲ DANGER**

**▲ WARNING**

**▲ CAUTION**

## GENERAL SAFETY RULES



**WARNING:** Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or or serious personal injury.



**SAVE THESE INSTRUCTIONS**



## **WARNING**

### **KNOW YOUR POWER TOOL.**

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

### **GROUND ALL TOOLS.**

This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.

### **KEEP GUARDS IN PLACE.**

Keep all guards in working order, and place adjustment and alignment.

### **REMOVE ADJUSTING KEYS AND WRENCHES.**

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

### **KEEP WORK AREA CLEAN.**

Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

### **AVOID DANGEROUS ENVIRONMENT.**

Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lit. Provide adequate surrounding work space.

### **KEEP CHILDREN AWAY.**

All visitors should be kept a safe distance from work area.

### **MAKE WORKSHOP CHILD PROOF.**

When not in use, tools should be stored by padlocks, master switches, or by removing starter keys - tools must be kept out of reach of children.

### **DON'T FORCE TOOL.**

It will do the job better and safer at the rate which it was designed.

### **USE RIGHT TOOL.**

Don't force tool or attachment to do a job it was not designed for.





## **WARNING**

### **WEAR PROPER APPAREL.**

Do not wear loose clothing, gloves, neckties or jewelry (rings, wristwatches) to get caught in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

### **USE SAFETY GOGGLES (HEAD PROTECTION).**

Wear safety goggles (must comply with ANSI Z87.1) at all times. "Everyday" eye-glasses only have impact resistant lens, they are NOT safety glasses. Also, use face or dust mask if cutting operation is dusty, and ear protectors (plugs or muffs) during extended periods of operation.

### **DON'T OVERREACH.**

Keep proper footing and balance at all times.

### **MAINTAIN TOOLS WITH CARE.**

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

### **DISCONNECT TOOLS.**

Before servicing: Disconnect tool from power source before changing accessories such as cutters, etc.

### **AVOID ACCIDENTAL STARTING.**

Make sure the switch is in the "OFF" position before plugging in the power cord.

### **USE RECOMMENDED ACCESSORIES.**

Consult the owner's manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

### **NEVER STAND ON TOOL.**

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool such that it is necessary to stand on the tool to reach them.

### **CHECK DAMAGED PARTS.**

Before further use of the tool, a guard or any other part of the tool is damaged, should be carefully checked to ensure that it will operate properly and perform as 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.

### **DIRECTION OF FEED.**

Feed work into a blade of cutter against the direction of rotation of the blade or cutter only.

### **NEVER LEAVE TOOL RUNNING UNATTENDED.**

Turn power **OFF**. Don't leave tool until it comes to a complete stop.



## CAUTION

1. Wear eye protection.
2. Wear mask or respirator when dust is generated.
3. Tighten cutoff wheel bolt and all clamps before running.
4. Disengage spindle lock before operating.
5. Keep guards in place and working properly.
6. Keep hands clear of cutoff wheel.
7. Never reach behind or beneath the cutoff wheel.
8. Never cut anything free hand.
9. Wait for wheel to stop before moving work piece.
10. Unplug before adjusting or servicing.
11. To avoid electrical shock, do not use under damp conditions or expose to rain.
12. After installing a new replacement wheel, never start the tool with a person in line with the wheel. Always run the tool for approximately one minute before cutting. If the wheel has an undetected crack or flaw, it could burst in less than one minute.
13. Use only wheels rated at 3200 RPM or higher.
14. Do not attempt to cut wood, masonry or magnesium with tool.



## **IMPORTANT**

### **GROUNDING INSTRUCTIONS:**



**CAUTION: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.**

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

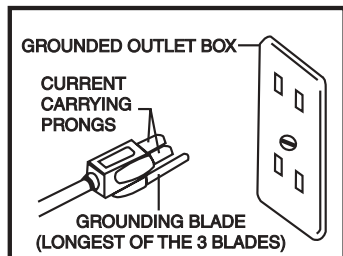
DO NOT modify the plug provided- if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with (or without) yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-hole receptacles that accept the tool's plug, as shown.

Repair or replace damaged or worn cord immediately.



**CAUTION: MAKE CERTAIN THE RECEPTACLE IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A CERTIFIED ELECTRICIAN CHECK THE RECEPTACLE.**

A separate electrical circuit should be used for you tools. This circuit should not be less than 14 wire and should be protected with a 20 AMP time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tools plug. For distances up to 100 feet use 12 wire. For distances up to 150 feet use 10 wire. Have a certified electrician replace or repair damaged or worn cord immediately. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as stamped on motor nameplate. All line connections should make good contact. Running low voltage will damage the motor.



# Description

**MODEL:**

ET-3407-J 14-INCH ABRASIVE CHOP SAW

**NOTE:** *The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the power tool.*

NEVER operate, or attempt any maintenance on the tool unless you have first read and understood all safety instructions contained in this manual.

**NAME OF PARTS:**

(Fig. 1)

**SPECIFICATIONS:**

14-INCH ABRASIVE CHOP SAW ET-3407-J:

Motor	1. 120V / 15 AMP 2. 220V / 50 HZ, 7.5 AMP
Blade	
Diameter:	14" (355mm)
Arbor:	1" (25.4mm)
Speed:	3,300 RPM
Capacity	
Max. Cross Cut:	1. Round: 5" (127mm) 2. Square: 4" (100mm)
Max. Milter 45°:	1. Round: 4-1/2" (1212mm) 2. Square: 4" (100mm)
Overall dimensions: (L x W x H)	22- 1/16" x 11-1/32" x 17" (560 x 280 x 580mm)
Net/Gross weight:	16.2 KGS / 18 KGS
Packing size:	2.46 CUFT

# Operation

## ASSEMBLY:

1. This cut off saw is shipped with the cutting head locked in the down position.
2. Remove locking chain to have cutting head in up position.
3. Raise wheel guard, push in spindle lock. (Fig. 2)
4. Use the wrench provided with the saw, to loosen the hex bolt which serves to hold the cutting wheel in place. Then remove the outer flange. (Fig. 3)
5. Install the cutting wheel on the arbor shaft.
6. Reinstall the outer flange, then tighten hex bolt.
7. Make sure the cutting wheel is secured by turning it with your hands.



(Fig. 2)



(Fig. 3)

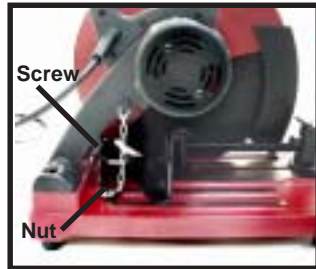
# Operation

## OPERATION:

1. SWITCH ACTION (Fig. 4):  
A lock-on button is provided with your saw.  
There are two ways you can operate your saw.
  - a. Short Periods of Cutting: Press trigger to start your saw and operate it until you release the trigger.
  - b. Long Periods of Cutting: Press trigger to start your saw and have lock-on button engaged for continuous operation, press trigger again to stop your saw.
2. ADJUSTING CUTTING DEPTH OF CUTTING WHEEL (Fig. 5):  
Screw the adjustable screw clockwise, then secure the bolt by tightening nut for deeper cutting. for shallow cutting, screw the adjustable screw counterclockwise.
3. USING CLAMP DEVICE TO SECURE WORK-PIECE (Fig. 6):  
Put work-piece in place and have clutch open, then push clamp until touching work-piece. Have clutch engaged and hold clamp handle to secure work-piece by tightening clamp.
4. ANGLE CUTTING:  
Loosen screw as shown in Fig. 7. Then adjust fence to the required angle. Tighten screw. Fence can be adjusted backward and forward to meet your easy cutting.
5. SAFETY COVER (Fig. 8):  
Always have movable cover in the lower position for your personal safety.



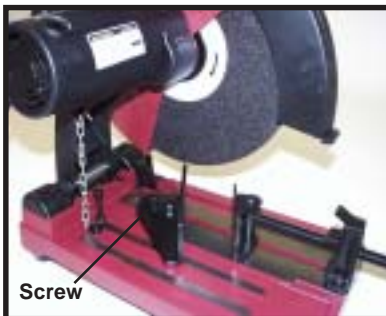
(Fig. 4)



(Fig. 5)



(Fig. 6)



(Fig. 7)



(Fig. 8)

# Maintenance and Inspection

## MAINTENANCE:

### BRUSH INSPECTION AND REPLACEMENT:



**CAUTION: BEFORE INSPECTING THE BRUSHES, DISCONNECT THE MACHINE FROM THE POWER SOURCE.**

Brush life varies. It depends on the load on the motor. Check the brushes after the first 50 hours of use for a new machine or after a new set of brushes has been installed.

After the first check, examine them after about 10 hours of use until such time that replacement is necessary.

The brush holders (Fig. 9), are located on the motor housing opposite each other. Remove and inspect the carbon or either brush are worn to 3/16" in length or if either spring or shunt wire are burned or damaged in any way, replace both brushes.

If the brushes are found serviceable after removing, reinstall them in the same position as removed.

### STORAGE:

For storage, link the chain on the hook as shown in Fig. 10.



(Fig. 9)



(Fig. 10)

# Notes

# Notes

# Notes





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