

Instructions and Safety Manual Model: CSM7MB

Serial # (for your future reference please write in Serial # located on machine label)

7" (180mm) Steel Cutting Circular Saw



IMPORTANT!

The Metal Devil saw you have purchased is a well—made tool. Used according to the directions it will give you excellent service for a number of metal-cutting applications. Misuse of this tool, however, could result in serious or fatal injury. Please read these operating and safety instructions carefully and completely. Heed all safety information. If you are uncertain about any aspect of using this equipment contact your distributor.

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Model CSM7MB Specifications

Machine:

Motor
Cutting Canabilities: (Square Tubing)

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Max Cutting thickness
Maximum Cutting Depth
RPM No Load Speed

Recommended Max. Duty Cyle

Sound Pressure Level *Under Load DB(A)*

Weight

120V 60Hz 9 Amp Watts 1080

90 degree cut :1/8" (3mm) wall thickness

1/4" (6mm) - mild steel plate

2.36" (60mm) 3500 RPM 30 minutes

94

13.25 lbs /6.02 kg's

Blade Dimensions:

Maximum Diameter Arbor / Bore Diameter

Avergage Blade Kerf

7" (178mm)

20mm

.071" (1.8mm)

Standard Equipment Supplied With Saw:

1- side handle

1- fence guide

1- pair safety goggles

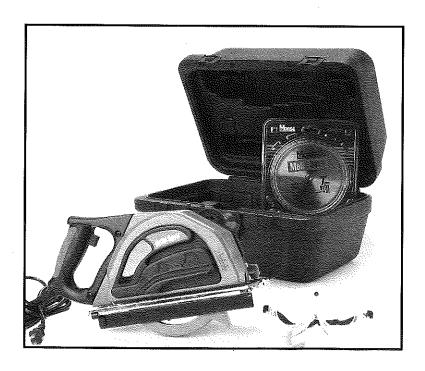
1- ear plug set

1- carry case

1-6mm hex key (for hex screws)

1- operating instructions

1- Metal cutting blade.





Warranty Repairs:

Contact your local Metal Devil Distributor for assistance with obtaining warranty repairs. **Notice:** Normal wear and tear and damage caused by misuse is not covered under the 1 year guarantee.

IMPORTANT SAFETY INFORMATION

Before beginning work:

- Check that the voltage is correct and that all handles and parts are firmly secured.
- This machine is designed for cutting steel. Operate it using only the recommended M.K. Morse "Metal Devil" brand TCT (tungsten carbide tipped) blades and accessories. Do not use blades made of HSS or that do not comply with the characteristics in these instructions.
- Ensure that the blade is the correct design for the material being cut.
- Before using any accessories for the Metal Devil Metal Cutting Machines, always ensure that the RPM of the accessory matches the RPM of the tool.
- Inspect the machine and blades before each use. Do not use deformed, cracked or damaged blades.
- Ensure that the blade is properly installed. The direction arrow on the blade should match rotation of the arbor.
- Do not modify this saw.
- Do not use it for any job for which it was not intended.
 Do not use it to power other equipment.
- This tool is equipped with an approved cord and plug for its intended country of use. Do not try to use it in a country where it will not be compatible. Never modify the plug.
- The green and yellow conductor in the cord is the grounding wire: never connect this to a live terminal.
- Ensure that total work area can be viewed from the operating position. Make sure the work area is clutter-free.
- Use barriers to keep people away from the work area.
- Do not operate the tool in explosive environments.
 Power tools create sparks that may ignite flammable materials, dusts or gases.
- Do not operate in damp or wet conditions or areas electric sparks may occur.
- Do not wear loose clothing or jewelry when operating the saw. Tie back long hair that might get into the blade.
- Always securely clamp the material to be cut.
- Never attempt to use this or any power tool while under the influence of alcohol or any drug that might affect your perceptions or judgment.
- Be sure there are no children in the area where you will operate this saw. Never allow children near a power saw.

AWARNING

Improper use of this saw can result in serious injury or death. Do not use without proper training. Read and follow all instructions and warnings in this manual and on the saw.





Do Not Operate in Wet or Damp Conditions



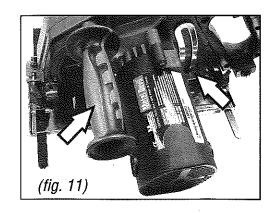
Machine is DoubleInsulated



Recycle Machine Properly

While operating the saw:

- Always use the safety glasses and hearing protection provided, or their equivalent, when using this saw. A flying chip could cause blindness. Cutting noise could seriously impair hearing.
- Never use the tool without the original protection guard system. Ensure that moveable guards operate freely without restrictions.
- Do not try to defeat any safety device. Do not lock the moving guard in the open position.
- Ensure that the cutting depth adjustment handle/angle adjustment handle and side handle are firmly fixed while using the tool (fig.11).
- Support the work piece properly. Never hold the work piece in your hand or put it across your legs.
- Always use both hands to operate the saw. Keep hands out of path of blade.
- Never reach around, under or behind the saw blade when operating the machine. The guard cannot protect your hand if you do so.
- Do not touch the blade while it is in motion. Do not try to stop the blade by lateral pressure on the blade.
- Never reach for a saw blade until the blade has completely stopped rotation and the machine has been disconnected from the power source.
- When cutting wood, use suitable dust extraction and breathing apparatus.
- Remove the plug from main power supply before replacing the blade, making adjustments or performing other maintenance work.
- Always keep the power cord away from the moving parts of the tool.
- In case of saw jamming, immediately switch off the saw and disconnect the plug. Remove the saw from the material and inspect the blade for damage.
- Use only the flanges and washers that are supplied with the tool. Replace them with original (OEM) replacement parts if they become damaged or scored.
- When storing the tool, switch off the motor, unplug the cord from the power source and ensure that all moving parts have come to a complete stop.



MACHINE PREPARATION and OPERATION

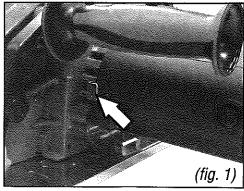
Blade Removal and Installation:

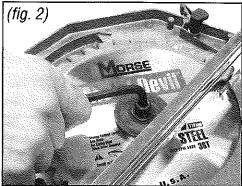
- Unplug machine from Power Source before doing any servicing or blade replacement.
- 2. Remove the chip collection unit (See instructions on page 6)
- 3. Depress spindle lock to stop blade/spindle rotation. (fig. 1)
- 4. Use the supplied 6mm hex key to remove the bolt / washers (2) and flange holding the blade. (fig.2)
- 5. Rotate the blade guard away from the blade. Remove used blade.
- 6. Replace with new Morse Metal Devil Blade.
- 7. Replace flange / washers and bolt.
- 8. Depress spindle lock and securely tighten the bolt. MAKE SURE THAT THE ARROW ON THE BLADE AND THE TEETH ARE ROTATING COUNTERCLOCKWISE.
- 9. Release spindle lock. Check to be sure that it has fully released by manually rotating the blade. (fig.3)
- 10. Replace chip collection unit and securely latch.



Where possible, always clamp the work piece on a rigid support.

- 1. Before starting the saw motor:
 - Place front edge squarely on the work piece.
 - Ensure that the blade is not touching the material to be cut.
 - Sight the cutting line with the line of the cut guide.
- 2. Allow the machine to come to full start.
- 3. Introduce the blade slowly so as not to damage the teeth of the blade.
 - DO NOT FORCE THE TOOL. ALLOW THE SPEED OF THE SAW BLADE TO DO THE WORK.
- 4. Using both hands, move the saw forward through the work piece. Applying more pressure on the tool will not improve cutting performance, but will reduce blade life.







MACHINE PREPARATION and OPERATION (Cont.)

Adjustment of the Cutting Depth

With power to the saw turned OFF:

- 1 Release the lock to adjust to the required cutting depth. (fig.4)
- 2 Make sure that the blade protrudes at the maximum cutting depth that the saw is capable of in the material being cut.
- 3 Tighten to lock into position. Check to ensure that the lock will not loosen while being used.

NOTE: Metal cutting blades work best while having the maximum amount of blade engaged in the cutting action. This distributes the cutting load among the teeth on the blade. This is the opposite of how a wood cutting blade is used, where minimal blade protrusion allows the operator to make a cut while minimizing the potential for the blade to become bound in the cut and produce material tearout.

EXCEPTION: Metal grating is best cut by having the blade protrude very minimally beyond the depth of the grating. The interrupted cuts that occur when cutting grating are very hard on the blade and carbide tips.

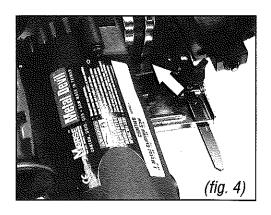


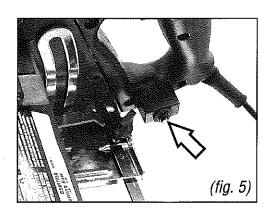
Parallel Blade Guide To set the guide:

- **1** Loosen the two retaining screws.
- 2 Slide the guide up snugly against the side of the work piece.
- 3 Using a measuring tape, check that the distances from the front and the back of the blade to the edge of the blade guide are equal. This will ensure that the guide is parallel to the blade. The guide should be parallel to the blade, and not to the base of the tool, to avoid damage to both blade and motor.
- 4 Retighten the screws.

Tool Overload / Reset

If the tool overload protection device activates, allow the motor to coo, then press the reset button to continue operation. (fig.5)





MACHINE PREPARATION and OPERATION (Cont.)

Chip Collection and Removal Chamber

NARNING Metal chips may be very hot and sharp.

Wear eye protection whenever you open the collection chamber. Never touch metal refuse with bare hands.

Removal:

1 Open latch. (fig. 6)

- 2 Tilt the saw so that the collection unit faces down. (fig.7)
- Hold the collection unit and pull away from the machine. A small hook holds the collection unit to the body of the machine, allowing it to rotate forward.
- 4 Slide the collection unit off the hook and gently shake the metal chips out of the chamber into a proper disposal bin. It should not be necessary to remove the back of the collection chamber to dispose of the chips within the chamber.

Re-Attaching:

- 1 Place the collection unit back onto the body of the saw.
- 2 Check for alignment of the collection unit with the back hook and the saw body. (fig.8) Note: the back hook goes between the collection unit and the pin that is also fastened to the collection unit.
- 3 Rotate collection unit to the closed position. (fig.9) The front latch will pull the collection unit tightly against the latching hook that holds the front of the unit.

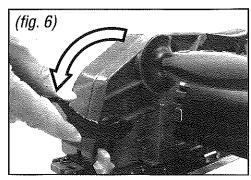
Machine Lubrication

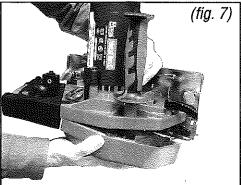
This machine is lubricated during its manufacturing with sufficient lubricant to last approximately 72 hours of operation. To add lubricant, it is necessary to dismantle the tool. This procedure is best accomplished by an authorized service center.

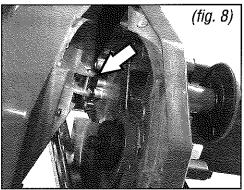
Maintenance and Troubleshooting

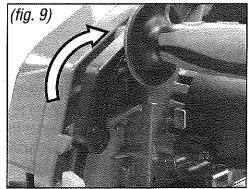
- In case of electrical or mechanical malfunction, immediately turn off the machine and disconnect the plug. Ensure that the saw is unplugged and the blade has stopped rotating before doing any maintenance.
- Keep your Metal Devil Circular Saw and cord clean. Use only a damp cloth and very mild soap to clean the saw.
- Excessive sparking can indicate the presence of dirt in the motor or worn carbon brushes. Check for wear. (fig10) Replace brushes when they reach 1/4" (6mm).
- For all other service and maintenance take machine to an authorized service center.

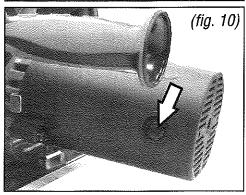
READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE!











CSM7MB SERVICE PARTS LIST

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Morse Metal Devil Part Number

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1 2 3 4 5 6 7 8 9 10 11 2 3 14 17 18 19 20 21 22 42 5 7 28 29 30 31 32 33 34 35 36 38 39 40 41 24 43 (a)	Trade mark label Cover Window Dust Cover Screw M5 Side Dust Cover Lower cable cover Screw M4 Screw M5 Power Cord Lead Wire Ass'y Left Handle Power Cord Clamp Screw M4 Overload Switch Guard cord Switch Right Handle Screw M4 Screw M8 Washer Flange(top) Flange(bottom) Screw M4 Bearing cover Spindle Key Ball bearing Screw M5 Bearing Seat Collar Helix Gear C RIng A14 Ball bearing Body Stator cover Ball bearing Armature - 110V Bearing washer	CSP7001 CSP7002 CSP7003 CSP7004 CSP7005 CSP7006 CSSPMC18028 CSSPMC18027 CSP7009 CSP7010 CSP7011 CSP7012 CSP7013 CSP7014 CSSPMC18064 CSSPMC18062 CSP7020 CSP7021 CSSPMC18061 CSSPMC18011 CSP7024 CSSPMC18015 CSP7028 CSSPMC18015 CSP7028 CSSPMC18017 CSSPMC18019 CSSSPMC18018 CSSPMC18018 CSSPMC18018 CSSPMC18020 CSSPMC18030 CSSPMC18030 CSSPMC18030 CSSPMC18030 CSSPMC18033 CSP7044	54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 77 77 77 79 99 99 99 99 99 99 99 90 10 10 10 10 10 10 10 10 10 10 10 10 10	Screw M5 Brush Holder Ass'y Carbon Brush Ass'y Brush cap Safety Cover Knob M6 Screw M6 Bracket Stop Base Spring Pin Lever E Ring E10 Nut Knob Goggle Ear Plug Hex. Wrench Retail box Blow mold case Length Adjustor Side Handle Spring Bolt Label Warning label Name plate Screw M4 Label Manual Washer Dust Clapboard Screw M5 Pin Screw M5 Set Plate Screw M5 Set Plate Screw M5 Set Plate Screw M5	
40	Body	CSP7040	109	Screw M5	CSP7109
			111	Screw M5	CSP7111
					CSP7113
46(A)	Field Ass'y	CSSPMC18075	114 115	Scale Screw M5	CSP7114
47 49	Ball bearing	CSSPMC18034 CSSPMC18048	116	Bolt	CSP7116
48 40	Washer	CSSPMC18035	117	Shaft	CSP7117
49 50	Motor Housing	CSP7050	118	Washer	CSP7118
50	Screw M5		119	Washer	CSP7119
51	Spring lock Ass'y	CSSPMC18038	113	vvaSiici	0011113
52	Screw M5	CSSPMC18081			

Now Available:

7", 9" & 14"(180mm, 230mm & 356mm) Saws 5-3/8"-14" (137mm - 356mm) Blades

Ahora se ofrecen: Sierras de 180mm, 230mm y 356mm Hojas de 137mm-356mm

Désormais disponibles : Scies de 180mm, 230mm y 356mm Lames de 137mm-356mm



Metal Devil Blades for MODEL CSM7MB: Hojas Metal Devil para el MODELO CSM7MB: Lames Metal Devil pour MODÈLE CSM7MB:

VORSE Mari bad

Metal / Métal

Thin steel / Acero Delgado /Acier Mince

Aluminum / Aluminio /Aluminium Stainless Steel / Acero Inoxidable

Acier Inoxydable

CSM736SC

CSM768TSC CSM754AC

CSM748SSC



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