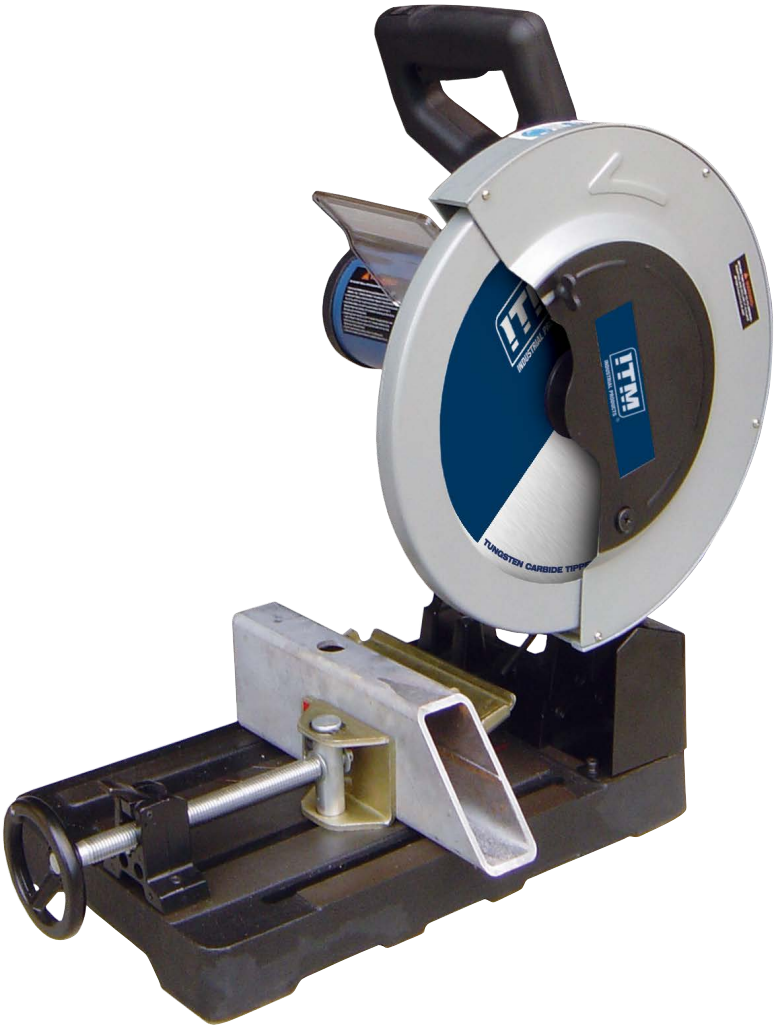
ITM
INDUSTRIAL PRODUCTS ®

350MM T.C.T. METAL CUTTING SAW

OPERATOR'S MANUAL



PART NO. S14

Ver: 1.1

Serial #_____ Date of Purachse _____

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LIMITED WARRANTY

Industrial Tool & Machinery Sales (hereinafter referred to as ITMS) will, within twelve (12) months from the original date of purchase, repair or replace any goods found to be defective in materials or workmanship.
This warranty is void if the item has been damaged by accident, neglect, improper service or other causes not arising out of defects in materials or workmanship. This warranty does not apply to machines and/or components which have been altered, changed, or modified in any way, or subjected to overloading or use beyond recommended capacities and specifications. Worn componentry due to normal wear and tear is not a warranty claim. Goods returned defective shall be returned prepaid freight to ITMS or agreed repair agent, which shall be the buyer's sole and exclusive remedy for defective goods. ITMS accepts no additional liability pursuant to this guarantee for the costs of travelling or transportation of the product or parts to and from ITMS or the service agent or dealer, such costs are not included in this warranty.

Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE IMPROVEMENTS AND MODIFICATIONS TO DESIGN WITHOUT PRIOR NOTICE.

PRODUCTS IMPORTED AND DISTRIBUTED NATIONALLY BY:
INDUSTRIAL TOOL & MACHINERY SALES
11 EASTERN SERVICE ROAD, STAPYLTON, QLD, 4207
T: 07 3287 1114 E: sales@industrialtool.com.au
F: 07 3287 1115 W: www.itmtools.com.au

GENERAL SAFETY RULES

⚠ WARNING! Read and Understand all Instructions.

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

SAVE THESE INSTRUCTIONS

Work Area

·*Keep Your Work Area Clean and Well Lit.*
·Cluttered benches and dark areas invite accidents.

·*Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.* Power tools create sparks which may ignite the dust or fumes.

·*Keep bystanders, children, and visitors away while operating a power tool*. Distractions can cause you to lose control.

Electrical Safety

· *Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.* If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

·*Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.* There is an increased risk of electric shock if your body is grounded.

·*Don't expose power tools to rain or wet conditions.* Water entering a power tool will increase the risk of electric shock.

·*Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts.* Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

·*When operating a power tool outside, use* ***only*** *an outdoor extension cord*.

(Note) 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, overheating & possible damage to motor. The recommended minimum is a **15 amp extension cord not exceeding 15 Metres.**

GENERAL SAFETY RULES (continued)

Personal Safety

- *Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.* A moment of inattention while operating power tools may result in serious personal injury.

- *Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.* Loose clothes, jewelry, or long hair can be caught in moving parts.

- *Avoid accidental starting. Be sure switch is off before plugging in*. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

- *Remove adjusting keys or switches before turning the tool on*. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

- *Do not overreach. Keep proper footing and balance at all times.* Proper footing and balance enables better control of the tool in unexpected situations.

- *Use safety equipment. Always wear eye protection.* Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

- *Use clamps or other practical way to secure and support the workpiece to a stable platform*. Holding the work by hand or against your body is unstable and may lead to loss of control.

- *Do not force tool. Use the correct tool for your application.* The correct tool will do the job better and safer at the rate for which it is designed.

- *Do not use tool if switch does not turn it on or off*. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

- *Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.* Such preventive safety measures reduce the risk of starting the tool accidentally.

- *Store idle tools out of reach of children and other untrained persons.* Tools are dangerous in the hands of untrained users.

- *Maintain tools with care. Keep cutting tools sharp and clean*. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.

- *Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.* Many accidents are caused by poorly maintained tools.

- *Use only accessories that are recommended by the manufacturer for your model.* Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

- *Tool service must be performed only by qualified repair personnel.* Service or maintenance performed by unqualified personnel could result in a risk of injury.

- *When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.* Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES AND SYMBOLS

⚠ WARNING!

DO NOT OPERATE MACHINE IF WARNING AND/OR INSTRUCTION LABELS ARE MISSING OR DAMAGED.

EYE PROTECTION REQUIRED

HEARING PROTECTION REQUIRED

NEVER PLACE FINGERS NEAR CUTTING AREA

LINE VOLTAGE PRESENT

Symbol	Description
V	volts
A	amperes
Hz	hertz
min	minutes
~	alternating current
n_o	no load speed

1. Only use ITM saw blades. Unauthorised blades may be **dangerous.**
2. Keep saw blades securely fastened. Check blade flanges for debris before installing any new blade.
3. Do not use dull or broken blades. Check blades often for condition and wear.
4. Check chip collector cover for proper fit to minimize the risk of flying debris.
5. Beware of ejecting chips. They become HOT both during and after cutting.
6. Always make provisions for safe handling of excess material.
7. Keep bottom of base plate free from dirt and other debris.

SPECIFIC SAFETY RULES (continued)

- DANGER! — Keep hands and body away from and to the side of the blade. Contact with blade will result in serious injury.

- WARNING! — To reduce the risk of injury, check lower guard. It must close instantly! Keep free hand away from blade at all times during operation. Support and clamp work. Wear eye and hearing protection.

Additional Specific Safety Rules:

DANGER! Keep hands away from cutting area and blade. Keep your second hand on auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

·Keep your body positioned to either side of the saw blade, but not in line with the saw blade. KICKBACK could cause the material to jump backwards. (See "Causes and Operator Prevention of Kickback.")

·Do not reach underneath the work. The guard can not protect you from the blade below the work.

·Check lower guard for proper closing before each use. Do not operate saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard and make sure it moves freely and does not touch the blade or any other part, at all angles and depths of cut.

·Check the operation and condition of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a buildup of debris.

·An unprotected, coasting blade will cause the saw to cut whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

·NEVER hold piece being cut in your hands. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

·Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.

·Always use blades with correct size and shape arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.

·Never use damaged or incorrect blade washer or bolts. The blade washer and bolt were specially designed for your saw, for optimum performance and safety of operation.

·Always clamp workpiece in vise and check security of vise bolts and position often. Vise can loosen due to vibration.

SPECIFIC SAFETY RULES (continued)

CAUSES AND OPERATOR PREVENTION OF KICKBACK

Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled workpiece to lift up and out of the saw toward the operator. When the blade is pinched or bound tightly by the kerf (saw cut) closing down, the blade stalls and the motor reaction drives the workpiece rapidly backward. If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the material causing the material to climb out of the blade and jump back toward operator. Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

Maintain a firm grip with both hands on the saw. KICKBACK forces can be controlled by the operator, if proper precautions are taken.

When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the workpiece from the saw or pull the material backward while the blade is in motion or KICKBACK may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or KICKBACK from the workpiece as the saw is restarted.

Support large panels to minimize the risk of blade pinching and KICKBACK. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

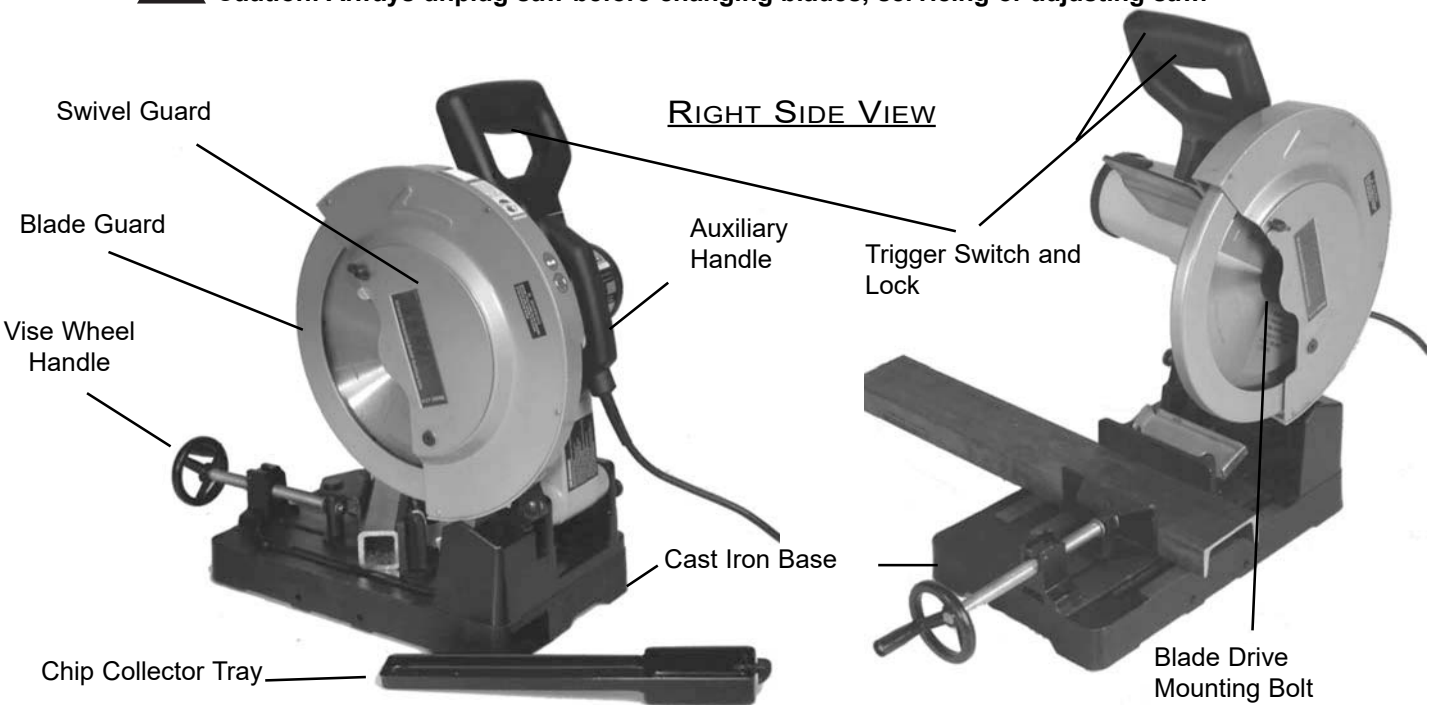
Do not use dull or damaged blade. Dull or improperly set blades produce narrow kerf causing excessive friction, blade binding and KICKBACK.

Blade depth and miter adjusting locking levers must be tight and secure before making a cut. If blade adjustment shifts while cutting, it may cause binding and KICKBACK.

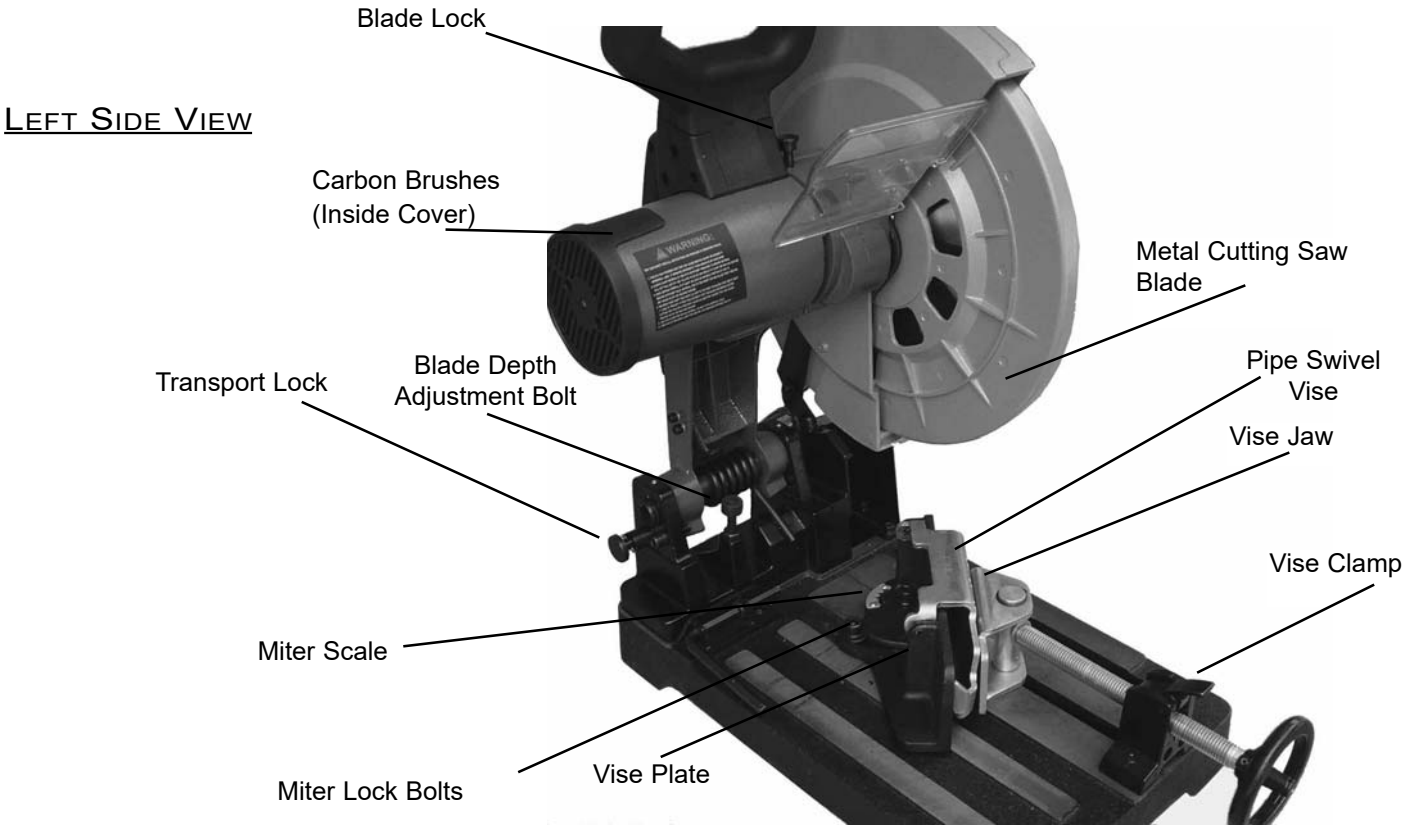
FUNCTIONAL DRAWINGS

Caution! Always unplug saw before changing blades, servicing or adjusting saw.

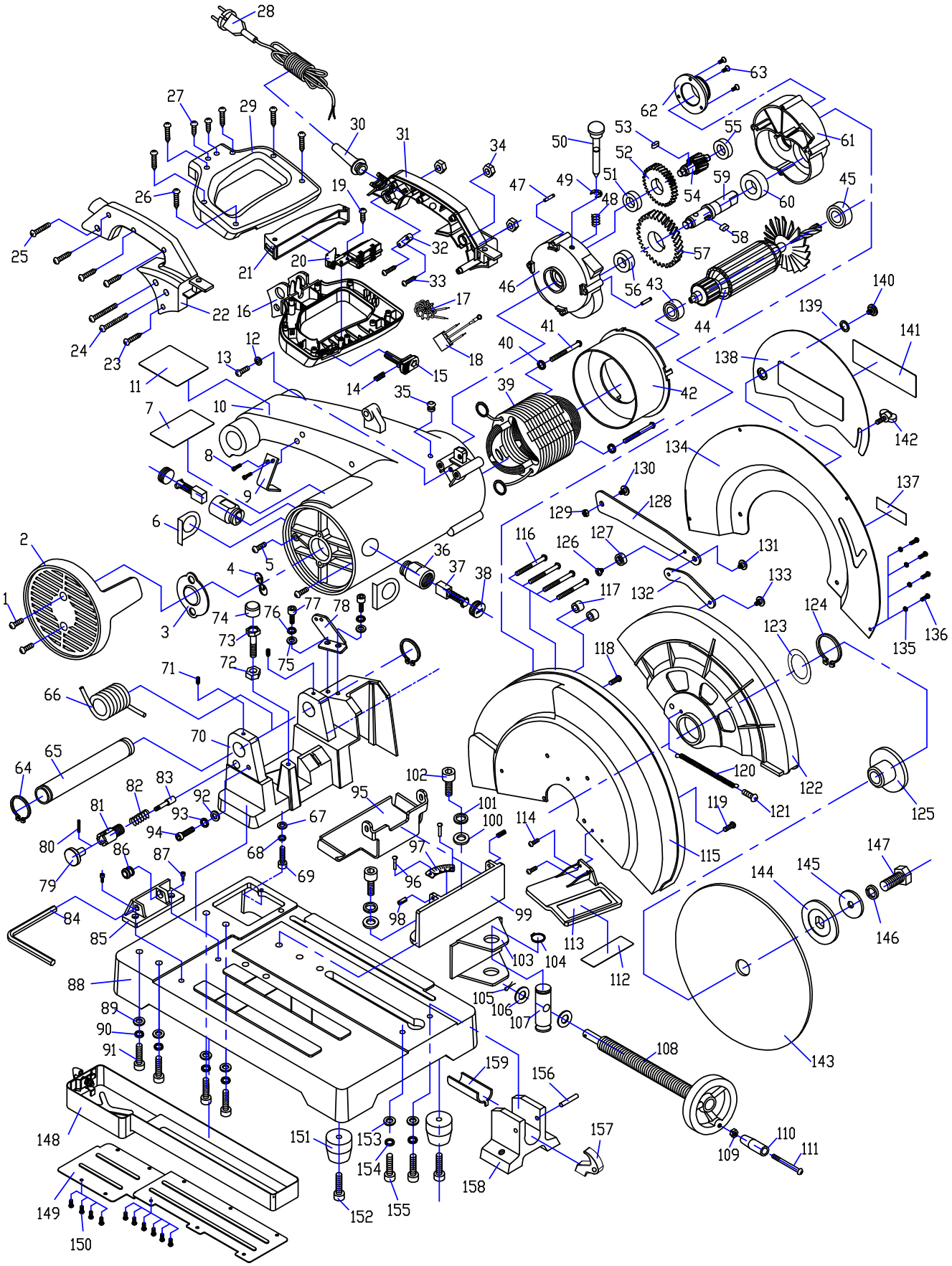
RIGHT SIDE VIEW



LEFT SIDE VIEW



EXPLODED VIEW



PARTS LIST

Pos	Descriptions	Part #	Qty
1	SCREW M5X15	SS350/01	2
2	END COVER	SS350/02	1
3	BEARING CAP	SS350/03	1
4	BEARING SPRING CLIP14	SS350/04	1
5	SCREW M5x10	SS350/05	2
6	PAPER PAD	SS350/06	2
7	NAME PLATE	SS350/07	1
8	HEX SCREW M5x15	SS350/08	2
9	DEPTH LIMIT	SS350/09	1
10	MOTOR HOUSING	SS350/010	1
11	WARNING LABEL	SS350/011	1
12	SPRING WASHER5	SS350/012	1
13	SCREW M5x10	SS350/013	1
14	SPRING	SS350/014	1
15	THUMB SWITCH	SS350/015	1
16	HANDLE BOTTOM HALF	SS350/016	1
17	INDUCTANCE	SS350/017	1
18	CAPACITANCE 0.33μF	SS350/018	1
19	SCREW ST4.2x12	SS350/019	1
20	MAIN SWITCH	SS350/020	1
21	SWITCH PADDLE	SS350/021	1
22	CARRY HANDLE-LEFT HALF	SS350/022	1
23	SCREW ST4.2x25	SS350/023	1
24	SCREW M5x60	SS350/024	2
25	SCREW M5x30	SS350/025	1
26	SCREW ST4.2x19	SS350/026	9
27	SCREW ST4.2x15	SS350/027	2
28	POWER CORD	SS350/028	1
29	HANDLE-TOP HALF	SS350/029	1
30	CORD BOOT	SS350/030	1
31	CARRY HANDLE-RIGHT HALF	SS350/031	1
32	CORD CLAMP	SS350/032	1
33	SCREW ST4.2x15	SS350/033	2
34	NUT M5	SS350/034	3
35	RUBBER SLEEVE	SS350/035	1
36	BRUSH HOLDER	SS350/036	2
37	CARBON BRUSH	SS350/037	2
38	BRUSH CAP	SS350/038	2
39	STATOR	SS350/039	1
40	SPRING WASHER 5	SS350/040	2
41	SCREW M5x80	SS350/041	2
42	WIND BAFFLE	SS350/042	1
43	BEARING (6200)	SS350/043	1
44	ARMATURE	SS350/044	1
45	BEARING (6202)	SS350/045	1
46	GEAR HOUSING-LEFT	SS350/046	1
47	PIN A4x18	SS350/047	2
48	SPRING	SS350/048	1
49	RETAINING RING 8	SS350/049	1
50	SPINDLE LOCK	SS350/050	1
51	BEARING (6000)	SS350/051	1
52	SMALLER GEAR	SS350/052	1

Pos	Descriptions	Part #	Qty
53	KEY 5x12	SS350/053	1
54	GEAR SHAFT	SS350/054	1
55	BEARING (6200)	SS350/055	1
56	BEARING (6001)	SS350/056	1
57	BIGGER GEAR	SS350/057	1
58	KEY 6x12	SS350/058	1
59	OUTPUT SHAFT	SS350/059	1
60	BEARING (6204)	SS350/060	1
61	GEAR HOUSING-RIGHT	SS350/061	1
62	BEARING CAP	SS350/062	1
63	SCREW M4x12	SS350/063	3
64	RETAINING RING 24	SS350/064	2
65	ARM AXIS	SS350/065	1
66	LOAD SPRING	SS350/066	1
67	WASHER 5	SS350/067	1
68	SPRING WASHER 5	SS350/068	1
69	HEX SCREW M5x20	SS350/069	1
70	PIVOTING ARM BASE	SS350/070	1
71	SCREW M5x13	SS350/071	2
72	NUT M8	SS350/072	1
73	BOLT M8x50	SS350/073	1
74	BOLT CAP	SS350/074	1
75	WASHER 6	SS350/075	2
76	SPRING WASHING 6	SS350/076	2
77	HEX SCREW M6x20	SS350/077	2
78	RETRACTING LEVEL SEAT	SS350/078	1
79	TRANSPORT LOCK	SS350/079	1
80	PIN 3x18	SS350/080	1
81	LOCK SEAT	SS350/081	1
82	SPRING	SS350/082	1
83	PIN	SS350/083	1
84	HEX WRENCH 8mm	SS350/084	1
85	WRENCH SEAT	SS350/085	1
86	RETAINING RUBBER	SS350/086	1
87	SCREW M5x15	SS350/087	2
88	SAW BASE	SS350/088	1
89	WASHER 10	SS350/089	4
90	SPRING WASHER 10	SS350/090	4
91	HEX BOLT M10x30	SS350/091	4
92	WASHER 8	SS350/092	1
93	SPRING WASHER 8	SS350/093	1
94	HEX BOLT M8x35	SS350/094	1
95	SWIVEL VISE	SS350/095	1
96	RIVET 3x8	SS350/096	2
97	MITER SCALE	SS350/097	1
98	PIN 6x14	SS350/098	2
99	VISE PLATE	SS350/099	1
100	WASHER 10	SS350/100	2
101	SPRING WASHER 10	SS350/101	2
102	HEX BOLT M10x25	SS350/102	2
103	VISE JAW	SS350/103	1
104	RETAINING RING 22	SS350/104	1
105	PIN 3x26	SS350/105	1
106	WASHER 12	SS350/106	2

Pos	Descriptions	Part #	Qty
107	VISE JAW AXIS	SS350/107	1
108	THREAD HANDLE	SS350/108	1
109	NUT M6	SS350/109	1
110	WHEEL HANDLE	SS350/110	1
111	SCREW M6x54	SS350/111	1
112	WARNING LABEL	SS350/112	1
113	EYE PROTECTION	SS350/113	1
114	SCREW M4x12	SS350/114	2
115	SAFETY COVER	SS350/115	1
116	SCREW M5x90	SS350/116	4
117	RUBBER STOPPER	SS350/117	2
118	SCREW M5x12	SS350/118	1
119	SCREW M4x10	SS350/119	1
120	LOAD SPRING	SS350/120	1
121	SCREW M4x10	SS350/121	1
122	LOWER RETRACTING GUARD	SS350/122	1
123	WASHER	SS350/123	1
124	RETAINING RING 42	SS350/124	1
125	INNER FLANGE	SS350/125	1
126	SCREW 2	SS350/126	1
127	GUARD RETRACTING ROLLER	SS350/127	1
128	LEVER 1	SS350/128	1
129	NUT M5	SS350/129	1
130	SCREW 4	SS350/130	1
131	SCREW	SS350/131	1
132	LEVER 2	SS350/132	1
133	SCREW 3	SS350/133	1
134	STEEL COVER	SS350/134	1
135	SPRING WASHER 4	SS350/135	4
136	SCREW M4x10	SS350/136	4
137	WARNING LABEL	SS350/137	1
138	SWIVEL GUARD	SS350/138	1
139	WASHER	SS350/139	1
140	SCREW	SS350/140	1
141	LOGO LABEL	SS350/141	1
142	WING NUT	SS350/142	1
143	SAW BLADE	SS350/143	1
144	OUTER FLANGE	SS350/144	1
145	WASHER	SS350/145	1
146	SPRING WASHER 10	SS350/146	1
147	HEX BOLT M10x25	SS350/147	1
148	CHIP BOX	SS350/148	1
149	CHIP BOX SEAT	SS350/149	1
150	SCREW M4x10	SS350/150	10
151	RUBBER FOOT	SS350/151	2
152	HEX BOLT M8x35	SS350/152	2
153	WASHER 8	SS350/153	2
154	SPRING WASHER 8	SS350/154	2
155	HEX BOLT M8x30	SS350/155	2
156	PIN	SS350/156	1
157	CLAMP	SS350/157	1
158	SUPPORT	SS350/158	1
159	PAD	SS350/159	1

ASSEMBLY

Your ITM brand saw is shipped complete and protected inside its shipping box. Remove all contents from the box and inspect to ensure no damage was incurred during shipping. Your S14 Metal Cutter package should also include the following:

DESCRIPTION	PART #	QTY
OPERATOR'S MANUAL		1
EARPLUGS (2)		1
SAFETY GOGGLES		1
8MM WRENCH		1
14" STEEL BLADE (OPTIONAL)	SSBL350-MS	1

GETTING STARTED

⚠ CAUTION!

ALWAYS DISCONNECT THE SAW FROM POWER SOURCE BEFORE MAKING ADJUSTMENTS.

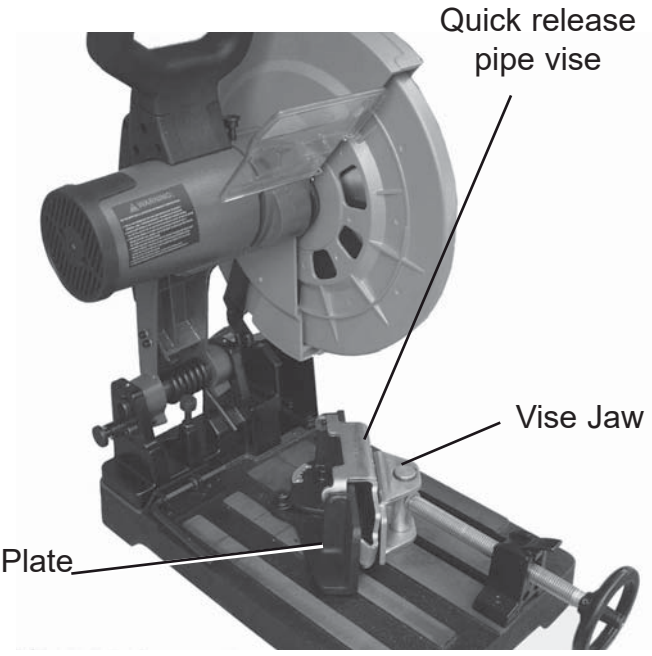
Refer to the "Functional Description" on page 8 and "Exploded View" drawing on page 9. If required, install an authorized metal cutting saw blade by first loosening wingnut (item 134) and rotating the swivel guard (item 130) up and out of the way. Then loosening the 8mm blade hex bolt and remove the outer blade flange and washer. Verify the correct seat of blade onto the inner blade flange lip. Always check blade installation for proper direction of rotation. From the front of saw, blade travels downward. Improper mounting will cause blade wobble and a possible hazardous condition. Reinstall blade bolt and flanges. Position Swivel guard and secure with thumb screw (item# 134).

ADJUSTING THE VISE

The vise has two positions for optimal cutting and a quick release swivel vise (item 88) for use with pipe, tubing and round profiles. Always use the vise in the most forward position that will completely cut through the material. Smaller profiles can lift out of the vise more easily when the vise is in the rear most position. Larger material requires the vise be moved to the rear position. To move the vise, proceed as follows:

Loosen the vise hex bolts and using the supplied 8mm hex wrench. Move the vise to the desired position and reinstall.

The thread vise wheel handle and movable vise jaw should be positioned to tightly grip material to be cut.



OPERATION

WHAT YOU SHOULD KNOW BEFORE SAWING

⚠ WARNING!

NEVER START THE SAW WITH CUTTING EDGE OF SAW BLADE CONTACTING WORK SURFACE. DO NOT RETRACT BLADE GUARD (ITEM# 115) MANUALLY. GUARD RETRACTS AUTOMATICALLY.

ALWAYS CHECK BLADE DOWN-STOP BOLT, LOCK NUT AND BOLT CAP (ITEM # 65,66, 154) FOR CORRECT POSITIONING AND WEAR BEFORE FIRST USE AND AFTER EACH BLADE CHANGE. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY DUE TO BLADE CONTACT WITH SAW BASE OR CHIP BOX.

1. After installation of saw blade or before first use, adjust down-stop bolt so that blade does not contact chip tray bottom when blade is in the full down position.

WHAT YOU SHOULD KNOW WHILE SAWING

1. Select the correct saw blade appropriate to the material being cut. (mild steel or aluminum)
2. The material surface should be clean and level, free from rust, dirt, scale, and other debris.
3. Material may become heat treated if flame cut. Always avoid cutting near these areas whenever possible.
4. Adjust the vise plate to the desired miter angle by loosening the left and right Miter Lock bolts (item# 95). Refer to "Exploded View".
5. When cutting smaller profiles, vise plate may be moved forward to aid in cutting quality and to minimize pull-out from the vise. Miter can be set by observing index marks printed on vise bracket.
6. Connect machine to power source.
7. Firmly grasp guide handle and trigger handle switch (item# 14, 15 and 24).
8. Position material in the saw vise and align cutting line with blade. Adjust the front and rear vise plates as necessary to firmly hold material in the desired position.
9. When ready, start saw motor by activating trigger switch (item# 17).
10. Slowly approach material edge and gently apply pressure until saw blade has established a cutting groove in the material.
11. Apply smooth, constant pressure without over-loading saw motor.

⚠ WARNING!

IF SAW MOTOR SHOULD STALL OR STOP BEFORE A COMPLETE CUT IS MADE ALWAYS REMOVE BLADE FROM MATERIAL BEFORE ATTEMPTING TO RESTART MOTOR. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

AFTER COMPLETING THE CUT

1. After the cut, release trigger switch to the "OFF" position.
2. When saw motor completely stops, clear both drop piece and material from vise.

OPERATION (continued)

FOR BEST PERFORMANCE, EMPTY THE CHIP COLLECTOR BOX OFTEN.

EMPTYING THE CHIP COLLECTOR BOX

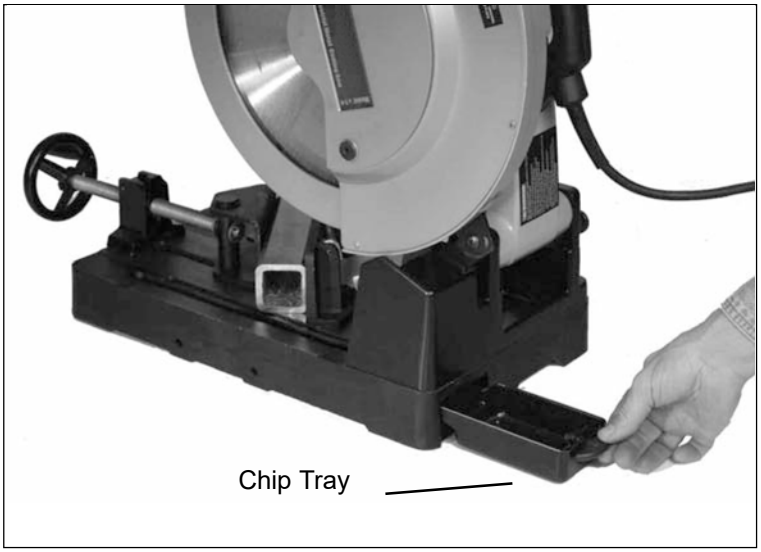
⚠ WARNING!

ALWAYS DISCONNECT THE SAW FROM POWER SOURCE BEFORE CHANGING BLADES, CLEARING CHIPS OR MAKING ADJUSTMENTS.

1. Turn the Chip Collector Box retaining thumbscrew (see below).
2. Remove chip collector box from the back of saw.
3. Empty chip collector completely. Clean all debris from saw body.
4. Install chip collector box in saw and fasten securely by tightening thumbscrews.

⚠ WARNING!

FAILURE TO INSTALL COLLECTOR BOX TOTALLY AND SECURE MAY RESULT IN UNCONTROLLED DISCHARGE OF CHIPS AND OPERATOR INJURY. ALWAYS VERIFY PROPER INSTALLATION OF CHIP BOX AND CHECK FREQUENTLY.



⚠ WARNING!

MOTOR DOWN-STOP BOLT AFFECTS HOW FAR BLADE TRAVELS INTO THE CHIP COLLECTOR BOX. AN IMPROPERLY ADJUSTED DOWN-STOP CAN HIT THE BOTTOM OF BOX, CAUSING AN EJECTION HAZARD. ALWAYS CHECK DOWN-STOP ADJUSTMENT AFTER REPLACING SAW BLADES OR SERVICING MACHINE.

MAINTENANCE

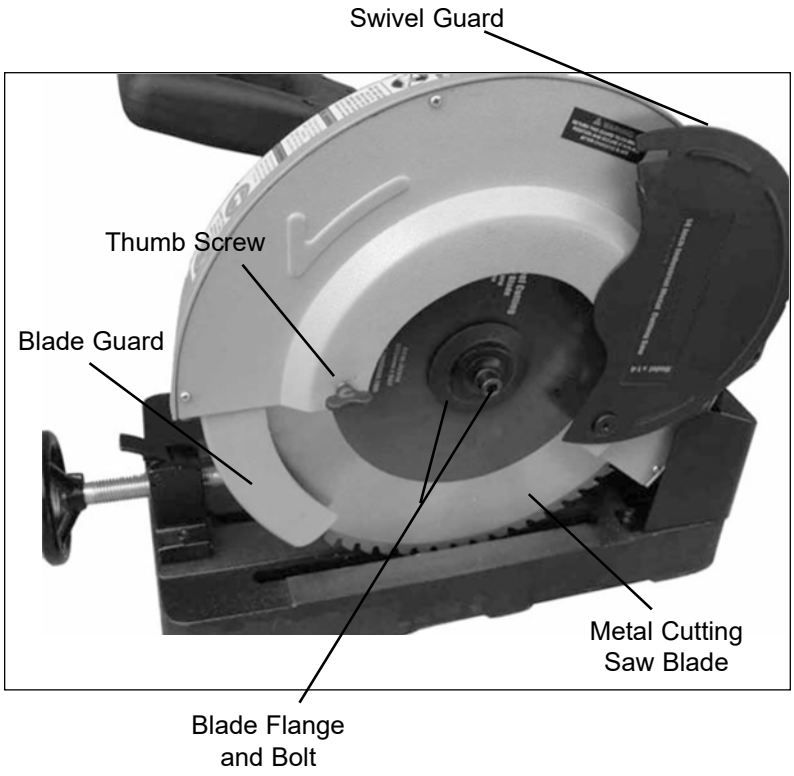
⚠ WARNING!

ALWAYS DISCONNECT THE SAW FROM POWER SOURCE BEFORE CHANGING BLADES, CLEARING CHIPS OR MAKING ADJUSTMENTS.

CHANGING SAW BLADES

Refer to the diagram to the right.

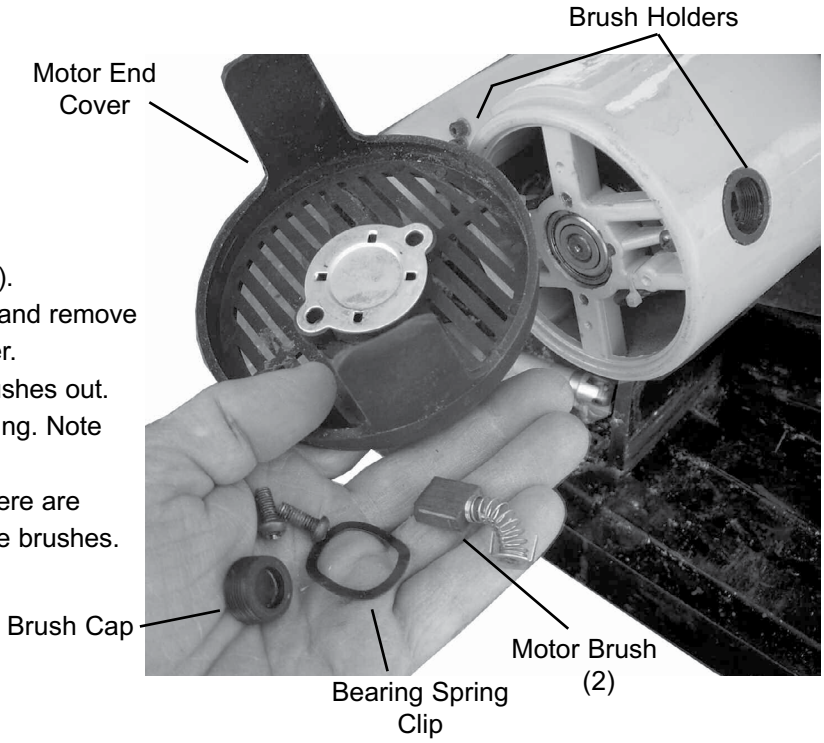
1. Place saw on a level, secure surface.
2. Move the swivel guard (item #130) by loosening the thumb screw (item #134) and rotating it to expose the blade retaining bolt.
3. Engage spindle lock (item# 46).
4. Using supplied hex wrench, loosen and remove the blade drive mounting bolt, washer and outer blade drive flange (items# 136-139).
5. Move the blade guard up and out of the way (item # 115).
6. Remove saw blade. (item 135)
7. Thoroughly clean inner and outer blade drive flanges and blade mounting surface before installing new blade.
8. Verify that blade rotation is correct.
9. Reverse process to install new blade.



REPLACING MOTOR BRUSHES

Refer to the diagram to the right.

1. Place saw on level, secure surface.
2. Tip saw on its right side (blade side down).
3. Remove two (2) motor end cover screws and remove the cover and motor bearing spring washer.
4. Remove the two brush caps and slide brushes out. Caution! Do not rotate brushes if re-installing. Note exact position when re-installing brushes.
3. If the carbon rod is less than 6mm or if there are signs of burning or other wear, replace the brushes.
4. Reverse the process to re-assemble saw.



TROUBLESHOOTING CHECKLIST

350mm METAL CUTTING SAW

⚠ CAUTION!

ALWAYS DISCONNECT THE SAW FROM POWER SOURCE BEFORE TROUBLESHOOTING.

SERVICE WORK SHOULD ONLY BE PERFORMED BY A SERVICE TECHNICIAN QUALIFIED & COMPETANT TO PERFORM SUCH TASKS

1. Machine will not turn on

   ·Inspect power cord for damage. Check & replace if needed.*
   ·Inspect brushes for excessive wear. Replace if needed. (2)*
   ·Do not exceed 30 minutes run time without cool down of saw.
   ·Check trigger switch for operation. Replace if needed.*

2. Losing Power

   ·Inspect brushes and replace if needed. (2)*
   ·Extension cord too long. Limit cord length to 15M or less.
   ·Extension cord too thin. Use 15AMP or larger.

3. Blade Guard Sticks

   ·Remove guard and remove any foreign material.
   Guard must move freely. Use light grease on mating contact surfaces to aid in movement.
   ·Check guard return spring for sufficient tension. Replace if spring is weak.
   ·Check guard for distortion. Replace if distorted or damaged.

4. Blade Spins on Spindle

   ·Check for proper tightness and installation. Inspect inner blade flange and outer blade flange for wear or damage. Replace if wear is excessive.
   ·Check flange mating surfaces for flatness. Replace if excessive distortion exists.
   ·Check to ensure flat washer is present between bolt head and outer blade drive flange.

5. Low Blade Life/Teeth Chipping

   ·Wrong blade for the type of material.
   SSBL350-MS for mild steel up to 25.4mm solid.
   SSBL350-AL for aluminum up to 25.4mm solid.
   SSBL350-TS for thin steel up to 6mm solid.
   ·Aggressive contact with blade into material. The blade must be allowed to do the work.
   ·Too much vibration due to insufficient clamping, worn or bent blade, or worn parts (see "Saw Vibrates" below).

6. Saw Vibrates

   ·Check blade for tightness.
   ·Inspect inner blade flange and outer blade drive flange for wear or damage. Replace if needed.
   ·Check to ensure work is properly clamped. Both primary and cut-off piece can cause vibration.
   ·Check miter lock for tightness.
   ·Check blade teeth for missing carbide, bends or cracks.

*** NOTE: ELECTRICAL SERVICE WORK MUST ONLY BE CARRIED OUT BY A LICENCED ELECTRICIAN**

SPECIFICATIONS

DIMENSIONS AND SPECIFICATIONS	
Height	431mm (17")
Width	340mm (13.4")
Length	533mm (21")
Weight	31kg
Motor	240V - 2200W 50 Hz / 1500 RPM
Blade Arbor	25.4mm (1.0")
Blade Diameter	355mm (14.0")
Depth of Cut/Pipe or Angle (maximum)	120mm (4.75")
Depth of Cut/Plate or Bar Solid (maximum)	25.4mm Mild Steel (1") 25.4mm Aluminum (1")

ACCESSORIES

Saw Blades

Application	Part #
For cutting mild steel to 25.4mm	SSBL350-MS
For cutting thin steel to 6mm	SSBL350-TS
For cutting aluminum to 25.4mm	SSBL350-AL