

12" Double Bevel Mitre Saw



01504

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent. This will allow the recycling of raw materials and help protect the environment.

**FOR HELP OR ADVISE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR,
OR SIP DIRECTLY ON:
TEL: 01509500400
EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com**

DECLARATION OF CONFORMITY

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer's authorised representative within the EC
declare that the

12" Double Bevel Mitre Saw - SIP Pt. No. 01504

Conforms to the requirements of the following directive(s), as indicated.

| | |
|-----------------------------|-----------------------|
| 2006/95/EC | Low Voltage Directive |
| 2006/42/EC | Machinery Directive |
| 2004/108/EC | EMC Directive |
| 2002/95/EC | ROHS Directive |
| As Amended By 2008/35/EC | |

And the following harmonised standard(s)

EN 55014-1+A1:2009
EN 55014-2+A2:2008
EN 61000-3-2+A2:2009
EN 61000-3-11:2000
EN 61029-1:2009+A11
EN 61029-2-9:2009

Signed:



Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 14/09/2012.



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GENERAL SAFETY INSTRUCTIONS

Please read the following instructions carefully, **failure to do so could lead to serious personal injury.**

When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

Read all these instructions before operating the tool and save this user manual for future reference.

SIP recommends that this tool should **not** be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

KNOW YOUR POWER TOOL: Read and understand the owner's manual and labels affixed to the tool. Learn its applications and limitations, as well as the potential hazards specific to this tool.

KEEP WORK AREA CLEAN AND WELL LIT: Cluttered work benches and dark areas invite accidents. Floors must not be slippery due to oil, water or sawdust etc.

DO NOT USE THE TOOL IN DANGEROUS ENVIRONMENTS: Do not use power tools in damp or wet locations, or expose them to rain. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA: All visitors should be kept at a safe distance from the work area.

STORE TOOLS SAFELY WHEN THEY ARE NOT IN USE: All tools should be stored in a dry, locked cupboard wherever possible and out of the reach of children.

WEAR THE CORRECT CLOTHING: Do not wear loose clothing, neckties, rings, bracelets, or other jewellery, which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves up above the elbow.

USE SAFETY GOGGLES AND EAR PROTECTION: Wear CE approved safety goggles at all times, Normal spectacles only have impact resistant lenses, they are **NOT** safety glasses. A face or dust mask should be worn if the operation is dusty and ear protectors (plugs or muffs) should be worn, particularly during extended periods of operation.

PROTECT YOURSELF FROM ELECTRIC SHOCK: When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). It is advisable wherever possible to use an RCD (residual current device) at the mains socket.

STAY ALERT: Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

DISCONNECT THE TOOL FROM THE MAINS SUPPLY: When not in use, before servicing and when changing accessories such as cutters, blades etc.

AVOID UNINTENTIONAL STARTING: Make sure the switch is in the **OFF** position before connecting the tool to the mains supply.

NEVER LEAVE THE TOOL RUNNING / CONNECTED WHILST UNATTENDED: Turn off the tool and disconnect it from the mains supply between jobs. Do not leave machine until it

NOTES

PARTS LIST...cont

| Ref No. | Description | SIP Part No. | Ref No. | Description | SIP Part No. |
|---------|-------------------|--------------|--------------|----------------------------|--------------|
| 188 | Screw | WD01-00351 | 206 | Washer | WD01-00369 |
| 189 | Lock handle | WD01-00352 | 207 | Shield lock piece | WD01-00370 |
| 190 | Fixture | WD01-00353 | 208 | Shield lock sheet | WD01-00371 |
| 191 | Locked nut | WD01-00354 | 209 | Spring | WD01-00372 |
| 192 | Pin | WD01-00355 | 210 | Washer | WD01-00373 |
| 193 | Role pin | WD01-00356 | 211 | Locknut | WD01-00374 |
| 194 | Lock bolt | WD01-00357 | 212 | Washer | WD01-00375 |
| 195 | Pressure plate | WD01-00358 | 213 | Spring washer | WD01-00376 |
| 196 | Washer | WD01-00359 | 214 | Screw | WD01-00377 |
| 197 | Screw | WD01-00360 | 215 | Spring washer | WD01-00378 |
| 198 | Lock washer | WD01-00361 | 216 | Wave washer | WD01-00379 |
| 199 | Head sunk screw | WD01-00362 | 217 | Nut | WD01-00380 |
| 200 | Orientation board | WD01-00363 | 218 | Dust bag | WD01-00381 |
| 201 | Spring washer | WD01-00364 | 116-123 | Complete laser assembly | WD01-00382 |
| 202 | Socket head screw | WD01-00365 | 2,3,19,41-57 | Complete motor assembly | WD01-00383 |
| 203 | Spring | WD01-00366 | 2,62-73 | Complete gear box assembly | WD01-00384 |
| 204 | Capacitor | WD01-00367 | 53-54 | Complete brush set | WD01-00385 |
| 205 | Screw | WD01-00368 | | | |

GENERAL SAFETY INSTRUCTIONS...cont

comes to a complete stop.

DO NOT ABUSE THE MAINS LEAD: Never carry the tool by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.

CHECK FOR DAMAGED PARTS: Before every use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate correctly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, and any other conditions that may affect its operation. A guard or other part that is damaged should be correctly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service agent. Do not use the tool if the switch does not turn it on and off.

KEEP ALL GUARDS IN PLACE: And in full working order.

MAINTAIN TOOLS WITH CARE: Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grip on the tool clean, dry and free of oil and grease.

USE ONLY RECOMMENDED ACCESSORIES: Consult this user manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards and will invalidate any warranty you may have.

REMOVE ADJUSTING KEYS AND WRENCHES: Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before every use.

SECURE THE WORKPIECE: Use clamps or a vice to hold the work-piece. This frees up both hands to operate the tool.

DO NOT OVERREACH: Keep proper footing and balance at all times.

USE THE RIGHT TOOL: Do not use the tool or attachment to do a job for which it was not designed.

DO NOT FORCE THE TOOL: It will do the job better and more safely at the rate which it was designed.

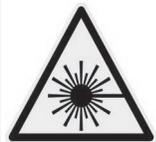
DO NOT OPERATE POWER TOOLS IN EXPLOSIVE ATMOSPHERES: Do not use the tool in the presence of flammable liquids, gases, dust or other combustible sources. Power tools may create sparks which can ignite the dust or fumes.

DO NOT EXPOSE THE TOOL TO RAIN OR USE IT IN WET CONDITIONS: Water entering a power tool will greatly increase the risk of electric shock.

HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON: The tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

SPECIFIC SAFETY INSTRUCTIONS

- Use only the blade flange specified for this tool.
- Be careful not to damage the arbor, flange (especially the installing surface). Damage to these parts could result in blade breakage. And / or operator injury.
- Make sure that the table base is properly secured so it will not move during operation.
- For your safety; remove the chippings and work debris etc. from the table top and from inside the extraction port before each operation.
- Avoid cutting nails / screws etc.; Remove all obstructions from the work-piece before cutting.
- Make sure that all keys and wrenches are removed before switching on the saw.
- Be sure that the blade does not come into contact with the table and / or table insert when the blade is in operation.
- Keep hands out of path of saw blade, never reach around saw blade.
- Make sure the blade is clear of the work-piece before the switch is turned on.
- Before making the first cut using the saw, turn the blade by hand to ensure nothing is catching, then turn the saw on and let it run for a while; Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade. Adjust or replace as necessary.
- Allow the blade to run up to full speed before cutting.
- Stop operation immediately if you notice anything abnormal.
- Wait for the saw blade to stop completely and remove from mains supply before servicing or adjusting tool.
- Be alert at all times, especially during repetitive, monotonous operations. Don't be lulled into a false sense of security. Blades are extremely unforgiving.
- Use of improper accessories such as abrasive wheels may cause damage to the saw and surrounding area as well as increasing the risk of injury.
- Turn off the saw and wait for it to complete stop before moving work-piece or changing settings.
- Do not modify the saw to do tasks other than those intended.
- Do not perform any operation freehand. The work-piece must be secured firmly against the base and guide fence with the clamp during all operations; Using your hand may cause severe injury.



Warning: The laser beam can potentially cause severe eye damage. Never look or stare directly into the laser beam.

Warning: During use, do not point the laser beam at people, directly or indirectly through reflecting surfaces.

PARTS LIST...cont

| Ref No. | Description | SIP Part No. | Ref No. | Description | SIP Part No. |
|---------|--------------------------|--------------|---------|--------------------|--------------|
| 125 | Arm | WD01-00289 | 156 | Lock boot | WD01-00320 |
| 126 | Rubber ring | WD01-00290 | 158 | Lock bolt | WD01-00321 |
| 127 | Slide | WD01-00291 | 159 | Support bar | WD01-00322 |
| 128 | Bevel lock handle | WD01-00292 | 160 | Lock handle | WD01-00323 |
| 129 | Washer | WD01-00293 | 161 | Screw | WD01-00324 |
| 130 | Locknut | WD01-00294 | 162 | Lock handle cap | WD01-00325 |
| 131 | Washer | WD01-00295 | 163 | Base | WD01-00326 |
| 132 | Nut | WD01-00296 | 164 | Rubber foot | WD01-00327 |
| 133 | Socket head screw | WD01-00297 | 165 | Mitre scale | WD01-00328 |
| 134 | Bevel pointer | WD01-00298 | 166 | Detent Roll | WD01-00329 |
| 135 | Screw | WD01-00299 | 167 | Detent Spring | WD01-00330 |
| 136 | Bevel scale | WD01-00300 | 168 | Hex grub screw | WD01-00331 |
| 137 | Straight cut setting pin | WD01-00301 | 169 | Bolt knurled | WD01-00332 |
| 138 | Stud | WD01-00302 | 170 | Screw | WD01-00333 |
| 139 | Stud | WD01-00303 | 171 | Support bar | WD01-00334 |
| 140 | Locknut | WD01-00304 | 172 | Fence | WD01-00335 |
| 141 | Washer | WD01-00305 | 173 | Socket head screw | WD01-00336 |
| 142 | Socket head screw | WD01-00306 | 174 | Left attach fence | WD01-00337 |
| 143 | Screw | WD01-00307 | 175 | Screw | WD01-00338 |
| 144 | Orientation board | WD01-00308 | 176 | Clamp | WD01-00339 |
| 145 | Screw | WD01-00309 | 177 | Support arm | WD01-00340 |
| 146 | Cutting insert | WD01-00310 | 178 | Knob (short) | WD01-00341 |
| 147 | Screw | WD01-00311 | 179 | Work-piece knob | WD01-00342 |
| 148 | Turntable | WD01-00312 | 180 | Support pole | WD01-00343 |
| 149 | Mitre pointer | WD01-00313 | 181 | Socket head screw | WD01-00344 |
| 150 | Screw | WD01-00314 | 182 | Knob (short) | WD01-00345 |
| 151 | Turntable bolt | WD01-00315 | 183 | Knob (long) | WD01-00346 |
| 152 | Turntable bolt cover | WD01-00316 | 184 | Right attach fence | WD01-00347 |
| 153 | Screw | WD01-00317 | 185 | Socket head screw | WD01-00348 |
| 154 | Knob (long) | WD01-00318 | 186 | Slide stopper | WD01-00349 |
| 155 | Safety foot | WD01-00319 | 187 | Lock handle cap | WD01-00350 |

PARTS LIST...cont

| Ref No. | Description | SIP Part No. | Ref No. | Description | SIP Part No. |
|---------|------------------------|--------------|---------|------------------------|--------------|
| 63 | Gear case cover | WD01-00227 | 94 | Linkage (B) | WD01-00258 |
| 64 | Bearing | WD01-00228 | 95 | Torsion spring | WD01-00259 |
| 65 | Shaft gear | WD01-00229 | 96 | Spring bushing | WD01-00260 |
| 66 | Flat key | WD01-00230 | 97 | Trench depth bracket | WD01-00261 |
| 67 | Bearing | WD01-00231 | 98 | Spring piece | WD01-00262 |
| 68 | Key | WD01-00232 | 99 | Wave washer | WD01-00263 |
| 69 | Spindle | WD01-00233 | 100 | Screw | WD01-00264 |
| 70 | C clip | WD01-00234 | 101 | Pivot shaft | WD01-00265 |
| 71 | Bearing | WD01-00235 | 102 | Steel wire baffle ring | WD01-00266 |
| 72 | Gear | WD01-00236 | 103 | Bracket | WD01-00267 |
| 73 | Bearing | WD01-00237 | 104 | Linear bearing | WD01-00268 |
| 74 | Fixed guard | WD01-00238 | 105 | Bearing cover | WD01-00269 |
| 75 | Dust pipe run | WD01-00239 | 106 | Screw | WD01-00270 |
| 76 | Sunk screw | WD01-00240 | 107 | Linear bearing | WD01-00271 |
| 77 | Nut | WD01-00241 | 108 | Spring loop | WD01-00272 |
| 78 | Plate guarding (big) | WD01-00242 | 109 | Knob (long) | WD01-00273 |
| 79 | Plate guarding (small) | WD01-00243 | 110 | Socket head screw | WD01-00274 |
| 80 | Moving guard plate | WD01-00244 | 111 | Lock pin | WD01-00275 |
| 81 | Big washer | WD01-00245 | 112 | Rolled pin | WD01-00276 |
| 82 | Screw | WD01-00246 | 113 | Lock pin spring | WD01-00277 |
| 83 | Spring | WD01-00247 | 114 | Lock pin cap | WD01-00278 |
| 84 | Cast centre | WD01-00248 | 115 | Bearing cover | WD01-00279 |
| 85 | Screw | WD01-00249 | 116 | Laser fixed plate | WD01-00280 |
| 86 | Rivet | WD01-00250 | 117 | Screw | WD01-00281 |
| 87 | Screw | WD01-00251 | 118 | Dual laser carrier | WD01-00282 |
| 88 | Moving guard | WD01-00252 | 119 | Screw | WD01-00283 |
| 89 | Moving guard cover | WD01-00253 | 120 | Laser | WD01-00284 |
| 90 | Shoulder Screw | WD01-00254 | 121 | Screw | WD01-00285 |
| 91 | Linkage (A) | WD01-00255 | 122 | Laser case | WD01-00286 |
| 92 | Rivet | WD01-00256 | 123 | Laser window | WD01-00287 |
| 93 | Socket head screw | WD01-00257 | 124 | Hex grub screw | WD01-00288 |

SPECIFIC SAFETY INSTRUCTIONS...cont

- This laser complies with class 2 according to EN 60825-1:2007.
- The unit includes no servicing components. Do not open the housing for any reason. If the unit is faulty/damaged, have it repaired/replaced by an authorized repair agent.
- Do not stare directly at the laser beam, never aim the beam at any person or an object other than the work-piece.
- Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person.
- Always ensure the laser beam is aimed at a sturdy work-piece without reflective surfaces. Wood or rough coated surfaces are acceptable. Bright shiny reflective surfaces are not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Always remember to switch off the laser on/off switch (2) after finishing a job, only turn the laser beam on when the work-piece is on the mitre saw table.



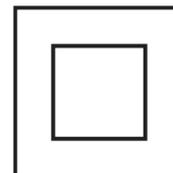
When using the saw always ensure the operator as well as those in the area wear ear protection.



When using the saw always ensure the operator as well as those in the area wear eye protection.



Some wood and wood composites have the potential to be highly toxic; always wear a face mask when operating saw.



This mitre saw is double insulated; This means the operator is separated from the tool's electrical system by two complete sets of electrical insulation. This extra layer of insulation is intended to protect the user from electrical shock due to a break in the wiring insulation. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded (earthed). Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a suitably qualified person.

SPECIFIC SAFETY INSTRUCTIONS...cont



Caution: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

TECHNICAL SPECIFICATIONS

| | |
|--|---------------|
| Part number | 01504 |
| Input voltage | 230v ~ 50hz |
| Power | 2000 w |
| No load speed | 4500 rpm |
| Blade Ø | 305 mm |
| Blade bore | 30 mm |
| Blade teeth | 40 TCT |
| Minimum blade thickness | 2mm |
| Maximum blade thickness | 4mm |
| Mitre table angles | -45°/0°/45° |
| Straight cut at 0° x 0° | 340mm x 102mm |
| Mitre cut at 45° x 0° | 240mm x 102mm |
| Left bevel cut at 0° x45° | 340mm x 55mm |
| Right bevel cut at 0° x45° | 340mm x 40mm |
| Left compound mitre cut at 45° x 45° | 240mm x 55mm |
| Right compound mitre cut at 45° x 45° | 240mm x 40mm |
| Weight | 18kg |
| Sound Pressure Level (LpA) * | 101 dB(A) |
| Sound Pressure Level (LpA) * (at operators ear) | 96 dB(A) |
| Sound Power Level (LwA) ** | 114 dB(A) |

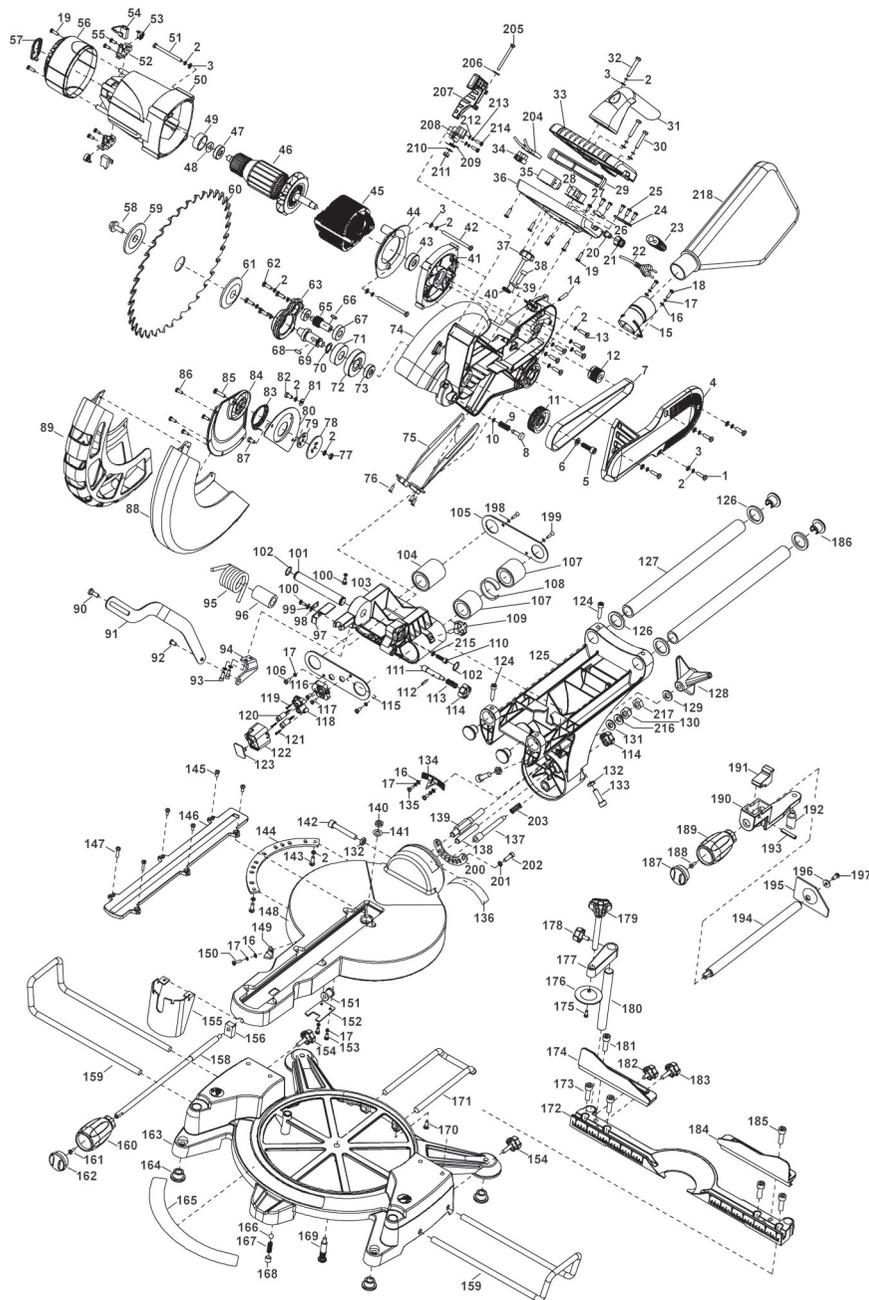
*Tested according to EN ISO 11201

**Tested according to EN ISO 4871: 3dB uncertainty

PARTS LIST

| Ref No. | Description | SIP Part No. | Ref No. | Description | SIP Part No. |
|---------|----------------------|--------------|---------|--------------------|--------------|
| 1 | Screw | WD01-00165 | 32 | Screw | WD01-00196 |
| 2 | Spring washer | WD01-00166 | 33 | Upper handle | WD01-00197 |
| 3 | Washer | WD01-00167 | 34 | Binding post | WD01-00198 |
| 4 | Belt cover | WD01-00168 | 35 | Switch | WD01-00199 |
| 5 | Socket head screw | WD01-00169 | 36 | Lower handle | WD01-00200 |
| 6 | Washer | WD01-00170 | 37 | Depth of cut knob | WD01-00201 |
| 7 | Belt | WD01-00171 | 38 | Socket head screw | WD01-00202 |
| 8 | Gear lock pin | WD01-00172 | 39 | Nut | WD01-00203 |
| 9 | Gear lock pin spring | WD01-00173 | 40 | Knurled thin nut | WD01-00204 |
| 10 | E clip | WD01-00174 | 41 | Motor support | WD01-00205 |
| 11 | Belt pulley (big) | WD01-00175 | 42 | Screw | WD01-00206 |
| 12 | Belt pulley (small) | WD01-00176 | 43 | Bearing | WD01-00207 |
| 13 | Screw | WD01-00177 | 44 | Fan baffle | WD01-00208 |
| 14 | Hex grub screw | WD01-00178 | 45 | Stator | WD01-00209 |
| 15 | Exhaust port | WD01-00179 | 46 | Armature | WD01-00210 |
| 16 | Washer | WD01-00180 | 47 | Bearing | WD01-00211 |
| 17 | Spring washer | WD01-00181 | 48 | Wave washer | WD01-00212 |
| 18 | Screw | WD01-00182 | 49 | Rubber boot | WD01-00213 |
| 19 | Screw | WD01-00183 | 50 | Motor housing | WD01-00214 |
| 20 | Laser switch | WD01-00184 | 51 | Screw | WD01-00215 |
| 21 | Laser switch cap | WD01-00185 | 52 | Brush hold | WD01-00216 |
| 22 | Cable plug | WD01-00186 | 53 | Brush spring | WD01-00217 |
| 23 | Cord protector | WD01-00187 | 54 | Brush | WD01-00218 |
| 24 | Cold clamp | WD01-00188 | 55 | Screw | WD01-00219 |
| 25 | Screw | WD01-00189 | 56 | Motor cover | WD01-00220 |
| 26 | Cold clamp | WD01-00190 | 57 | Logo cap | WD01-00221 |
| 27 | Screw | WD01-00191 | 58 | Blade bolt | WD01-00222 |
| 28 | Transformer | WD01-00192 | 59 | Blade flange outer | WD01-00223 |
| 29 | Trigger | WD01-00193 | 60 | Blade | WD01-00224 |
| 30 | Screw | WD01-00194 | 61 | Blade flange inner | WD01-00225 |
| 31 | Carry handle | WD01-00195 | 62 | Screw | WD01-00226 |

EXPLODED DIAGRAM



ELECTRICAL CONNECTION



This mitre saw is double insulated. This means the operator is separated from the tool's electrical system by two complete sets of electrical insulation.

This saw is fitted with a standard UK type 230v ~ plug. Before using the tool inspect the cable and plug to ensure that neither are damaged. If any damage is visible have the tool inspected / repaired by a suitably qualified person. If it is necessary to replace the plug a heavy duty impact resistant plug would be preferable.

The wires for the plug are coloured in the following way:

| | |
|-------|---------|
| Blue | Neutral |
| Brown | Live |

As the colours of the wires may not correspond with the markings in your plug, proceed as follows:

- The wire which is coloured blue, must be connected to the terminal marked with N or coloured black.
- The wire which is coloured brown, must be connected to the terminal, which is marked L or coloured red.
- Always secure the wires in the plug terminal carefully and tightly. Secure the cable in the cord grip carefully.



Warning: Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved plug with the correct rated fuse. If in doubt consult a qualified electrician.



Note: Always make sure the mains supply is of the correct voltage and the correct fuse protection is used. In the event of replacing the fuse always replace the fuse with the same value as the original.



Note: If an extension lead is required in order to reach the mains supply; ensure that this too is rated for the correct voltage and fuse rating.



Note: The cross section of the extension lead should be checked so that it is of sufficient size so as to reduce the chances of voltage drops.

GUARANTEE

Guarantee:

This SIP 12" double bevel saw is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to mis-use or operating the saw outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs. Consumable items such as fuses and blades are not covered by the warranty.

In the unlikely event of warranty claims, contact your distributor as soon as possible. Proof of purchase will be required before any warranty can be honoured.



Note: Proof of purchase will be required before any warranty can be honoured.

CONTENTS AND ACCESSORIES

- Dust Bag
- Work Clamps
- Blade Socket Wrench
- Side Support Bar (x 2)
- 6mm Hex. Key
- Instruction Manual



Note: If any parts are missing, contact your distributor for the missing parts to be replaced.

MAINTENANCE...cont

GENERAL INSPECTION:

Cleaning and maintenance of this saw is mainly common sense some points for guidance are as follows:

- Regularly check that all the fixing screws are tight, particularly the outer flange. They may vibrate loose over time.
- The mains lead of the saw and any extension cord used should be checked frequently for damage. If damaged, have the mains lead replaced by an authorised service facility. Replace the extension cord if necessary.
- Keep the air vents of the saw clear at all times.
- After each use brush off any wood chippings with a soft brush. Pay special attention to the inside of the dust extraction port (where the dust bag fits to the saw) as this is where there will be a large build up if left for extended periods.
- The motor of the saw should be cleared of any wood chippings as there would be a risk of fire if they are allowed to build up over time (a soft brush or dry air could be used to clear the motor).
- Empty the bag at least after each use; the bag should be emptied before it gets half full to ensure its efficiency. There is a zip on the bag to allow for easy disposal of wood chippings.
- Ensure the blade guard is kept clean with a damp cloth (do not clean the guard or any part of the saw with a corrosive solvent) to reduce the risk of injury. Periodically oil all the moving parts on the saw to extend the life of the saw.
- Inspect the carbon brushes (in the motor) at frequent intervals (depending on the amount of use) and change them if the wear reaches the worn limit line or is below 10mm, they should also be checked to ensure that the brushes move in and out easily.



Caution! Water must never come into contact with the tool.

LUBRICATION:

As well as oiling the moving parts regularly, the grease in the gearbox will require replacement after extensive use of the saw. Refer to an authorised service agent to provide this service.

MAINTENANCE...cont

- Loosen the locking nut on one of the bevel adjustment screws (33 or 34).
- Loosen the bevel lock (16).
- Pull out the bevel positive stop knob (39) whilst pushing the saw head to 45° either left or right depending on which adjustment screw has been loosened.
- Place a set square with an accurate 45° angle against the main table of the saw and the blade.
- Use a hex wrench to adjust the screw until the blade is at 45°.
- Re-tighten the locking nut ensuring that the angle is kept.
- If required loosen the screw on the angle pointer and adjust so that it reads 45°. Re-tighten the screw.

Follow these instructions on the opposite side to ensure that the blade is set to 45° in both directions.

CHANGING THE BLADE:



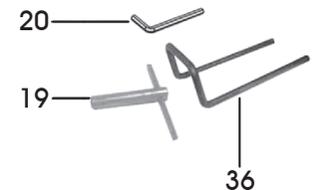
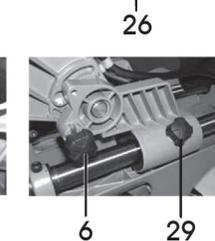
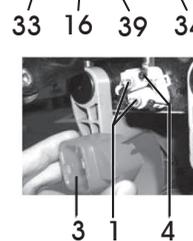
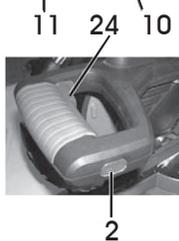
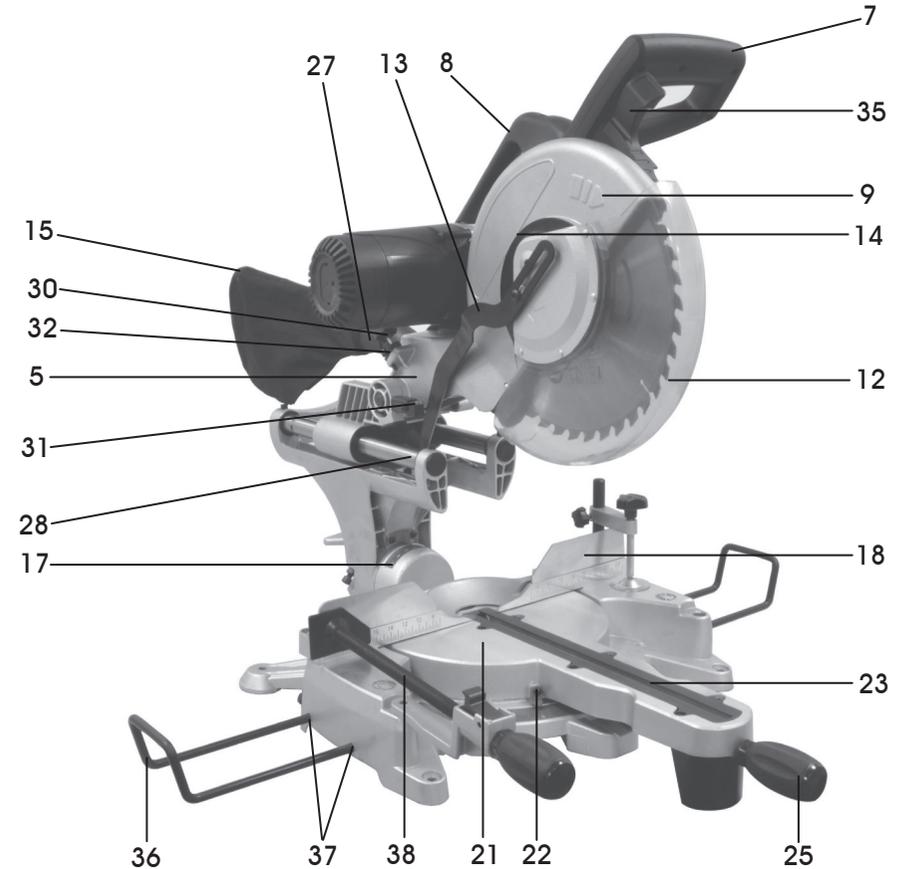
Caution: Always ensure that the replacement blade matches the specifications, as shown on page 8. **Never** fit a blade which is smaller or bigger than that stated.

- Pull on the release knob (6) and turn it through 90° to lock it "open"
- lift the saw arm (5) to its full height.
- Press the release latch (35) and slide the blade guard above the blade.
- With the blade guard held in place; remove the blade guard screw (14).
- Slide the black plate up to reveal the blade retaining bolt and flange.
- Press and hold the spindle lock button (26) whilst slowly turning the blade until the lock locates and stops the blade from spinning.
- Turn the blade retaining bolt clockwise (the bolt has a left handed thread) to loosen and remove.
- Slide the flange and the blade from the spindle and fit the new blade.
- Follow these instructions in reverse to secure the blade, ensuring that the blade direction is correct and that the contact surfaces of the blade and flange are flat and clean.



Caution: Ensure all screws / bolts are completely tight and that the blade guard works correctly before re-using the saw.

GETTING TO KNOW YOUR SAW

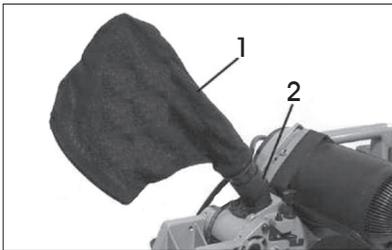


GETTING TO KNOW YOUR SAW...cont

| | | | |
|----|---------------------------|----|----------------------------------|
| 1 | Laser assembly | 21 | Mitre table |
| 2 | Laser light on/off switch | 22 | Mitre scale |
| 3 | Laser cover | 23 | Table insert |
| 4 | Laser pitch control | 24 | Switch trigger |
| 5 | Saw arm | 25 | Mitre lock |
| 6 | Release knob | 26 | Spindle lock button |
| 7 | Operating handle | 27 | Dust extraction port |
| 8 | Carrying handle | 28 | Slide bars |
| 9 | Upper fixed blade guard | 29 | Slide lock |
| 10 | Clamp assembly | 30 | Trenching depth adjustment screw |
| 11 | Clamp assembly lock | 31 | Trenching stop |
| 12 | Moving blade guard | 32 | Trenching depth lock nut |
| 13 | Guard retraction arm | 33 | Bevel adjustment screw |
| 14 | Blade guard screw | 34 | Bevel adjustment screw |
| 15 | Dust bag | 35 | Release latch |
| 16 | Bevel lock | 36 | Side support bars |
| 17 | Bevel scale | 37 | Side support bar location holes |
| 18 | Fence | 38 | Clamp assembly |
| 19 | Blade wrench | 39 | Positive stop knob |
| 20 | Hex key (6mm) | | |

ASSEMBLY INSTRUCTIONS

Fitting The Dust Bag:



The dust bag (1) fits in the dust extractor port (2).



Note: For efficient operation, empty the dust bag when it is no more than half full, this allows better air flow through the bag.

MAINTENANCE



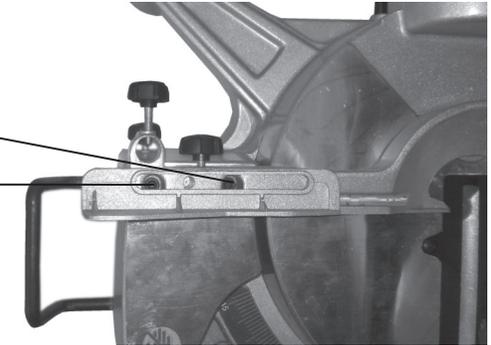
Warning! Always ensure that the saw is turned off and that the plug is disconnected from the mains supply before carrying out any adjustments, repairs or maintenance.

This saw is set up at the factory and should need no adjustment; however time and careless use can affect the angles and some adjustment may be required.

CHECKING AND SETTING THE MITRE ANGLE:

- Loosen the slide lock (29); push the saw head back as far as it will go and re-tighten the slide lock (29).
- Loosen the mitre lock (25); turn the main table until the positive stop for 0° engages and the angle guide pointer is close to 0°.
- Re-tighten the mitre lock.
- If the pointer is not exactly set to 0° loosen the screw and turn the pointer until it is.
- Loosen the 4 (2 on each side of the saw) rear fence locking bolts and lower the blade to its lowest point; lock the saw head down with the release knob (6).

Rear Fence Locking Bolts



- Place a square against the blade and rear fence and adjust the fence until an angle of exactly 90° is achieved.
- Proceed to tighten the rear fence locking bolts whilst ensuring that an angle of 90° is maintained.

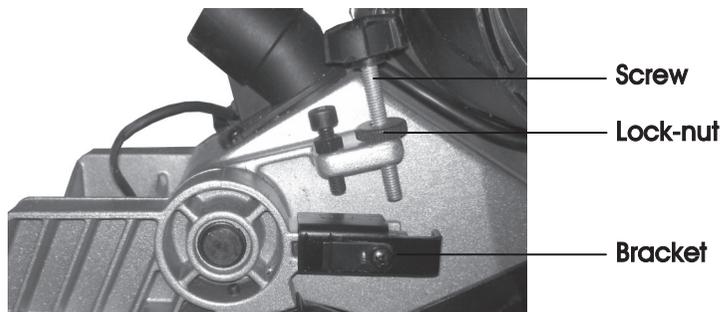
CHECKING AND SETTING THE BEVEL ANGLE:

- Loosen the slide lock (29); push the saw head back as far as it will go and re-tighten the slide lock (29).
- Loosen the mitre lock (25); turn the main table until the positive stop for 0° engages and the angle guide pointer shows 0°.
- Re-tighten the mitre lock.

OPERATING INSTRUCTIONS...cont

A compound mitre cut involves using a mitre angle and a bevel angle at the same time. It is used in making picture frames, to cut mouldings, making boxes with sloping sides and for roof framing. It is a good idea to make a test cut on a piece of scrap wood before cutting into the good material. Use the slide action when cutting wide work-pieces.

USING THE DEPTH STOP:



- Slide the depth stop bracket to the right to engage the depth stop.
- Loosen the lock-nut.
- Adjust screw to the required depth.
- Once set to the desired depth; Tighten the lock-nut against the retaining bracket to lock the depth stop and ensure there is no movement due to vibration etc.

Function:

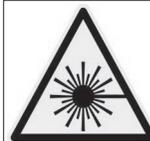
Once the depth stop is set; the blade will not cut all the way through the work-piece (depending on the depth that it is set to). This will allow the operator to easily cut slots out of the work-piece if used in conjunction with the sliding function of the saw, it is advisable to check the cut depth on a scrap piece of wood.

Make a cut as explained in the main instruction manual then raise the main saw head above the work-piece. Move the work-piece (left or right) slightly and make another cut until the desired amount of wood is removed and the slot is complete.



Note: It may be necessary to clean the slot with a sharp chisel or by sanding.

OPERATING INSTRUCTIONS



Warning: Do not stare into the laser beam as this is dangerous and will damage your eyes.

- Do not stare directly at the laser beam, never aim the beam at any person or an object other than the work-piece.
- Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person.
- Always ensure the laser beam is aimed at a sturdy work-piece without reflective surfaces. wood or rough coated surfaces are acceptable. Bright shiny reflective surfaces are not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Always remember to switch off the laser on/off switch (2) after finishing a job, only turn the laser beam on when the work-piece is on the mitre saw table.

CROSS-CUTTING (WITHOUT SLIDE ACTION):



Note: When cutting a narrow piece of wood it is not necessary to use the slide mechanism. In these cases ensure that the saw head is pushed back and the slide lock (29) is tight to prevent the saw arm from sliding.

A crosscut is made by cutting across the work-piece, a 90° crosscut is made with the mitre table set at 0°. Mitre crosscuts are made with the table set at any other angle.

- Pull on the release knob (6) and turn it through 90° to lock it "open"
- lift the saw arm (5) to its full height.
- Loosen the mitre lock (25).
- Rotate the mitre table (21) until the pointer aligns with the desired angle.
- Retighten the mitre lock (25).



Warning! Be sure to tighten the mitre lock before making a cut. Failure to do so could result in the table moving during the cut and cause serious personal injury.

- Place the work-piece flat on the table with one edge securely against the fence (18).
- Turn on the laser by pressing the laser On/Off switch (2).
- Use the clamp assembly (10) to secure the work-piece.

OPERATING INSTRUCTIONS...cont



Note: It is possible to remove the clamp assembly (10) by loosening the clamp assembly lock (11) and moving it to the other side of the table. Make sure the clamp assembly lock is tight before using the clamp.



Note: When cutting long pieces of timber, support the opposite end of the timber with the side support bars (36), a roller stand or a work surface that is level with the saw table.

- Hold the operating handle (7) firmly and squeeze the switch trigger (24); allow the blade to reach maximum speed.
- Press the release latch (35) and slowly lower the blade into and through the work-piece.
- Release the switch trigger (24) and allow the saw blade to stop rotating before raising the blade away from the work-piece.
- Ensure that the blade has stopped and that the saw head is returned to a position so that the guard is covering the blade before removing the work-piece.

CROSS-CUTTING (WITH SLIDE ACTION):

- Unscrew the slide lock (29).
- Pull on the release knob (6), raise the saw arm (5) to its highest position and slide (pull) it towards you.
- Loosen the mitre lock (25).
- Rotate the mitre table (21) until the pointer aligns with the desired angle.
- Retighten the mitre lock (25).
- Place the work-piece flat on the table with one edge securely against the fence (18).
- Turn on the laser by pressing the laser On/Off switch (2).
- Use the clamp assembly (10) to secure the work-piece.
- Hold the operating handle (7) firmly and squeeze the switch trigger (24); allow the blade to reach maximum speed.
- Press the release latch (35) and slowly lower the blade onto and through the work-piece whilst sliding (pushing) it away from you at the same time until the work-piece is cut.
- Release the switch trigger (24) and allow the saw blade to stop rotating before raising the blade out of the work-piece.
- Ensure that the blade has stopped and that the saw head is returned to a position so that the guard is covering the blade before removing the work-piece.

OPERATING INSTRUCTIONS...cont

MAKING A BEVEL CUT:

A bevel cut of up to 45° (to the left or to the right) can be achieved by using the following method:

- Loosen the bevel lock handle (16) which is situated at the rear of the saw.
- Pull the positive stop knob (39) whilst pushing the saw head to the left or right, depending on the angle required.



Note: The positive stop knob (39) will stop the saw head at popular angles 15°, 30° & 45° left and right when released, but any angle between 0 and 45 can be selected by locking the bevel lock.

- Use the bevel scale (17) and pointer to set the head to the desired angle.
- Tighten the bevel lock handle (16) to secure the head at the desired angle.

Follow the previous instructions to perform the cut depending on the dimensions of the work-piece (see "cross cut with sliding action" or "cross cut without sliding action").

MAKING A MITRE CUT:

A mitred angle of 45° left or right can be obtained using the following method.

- Loosen the mitre lock (25).
- Turn the table until the desired angle is indicated by the mitre scale (22).



Note: The mitre angle guide has positive stops at popular angles 15°, 22.5°, 30° & 45° left and right, but any angle between 0 and 45 can be selected by tightening the mitre lock (25).

- Tighten the mitre lock (25) to hold the desired angle.

Follow the previous instructions to perform the cut depending on the dimensions of the work-piece (see "cross cut with sliding action" or "cross cut without sliding action").

MAKING A COMPOUND MITRE CUT:



Note: A compound mitre cut can also be performed by adjusting both angles (bevel and mitre) away from 90°