

Bäumr-AG



Metal Cut-Off Saw – COS-355

User Manual

[Revision 1.0 January 2019]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

 <p>You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.</p>	 <p>You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.</p>	 <p>You CAN be INJURED if you do not follow instructions or equipment damage may occur.</p>
<p>It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.</p> <p>Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.</p> <p>Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.</p> <ul style="list-style-type: none"> Before Use - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety. Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances. Keep clear of moving parts. Equipment may be a potential source of electric shock or injury if misused. Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state. Do NOT allow others to use the equipment unless they have read this manual and are adequately trained. Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property. <p>General Work Area Safety</p> <ul style="list-style-type: none"> Work areas should be clean and well lit. Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area. If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards. 	<p>General Personal Safety</p> <ul style="list-style-type: none"> Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment. Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance. Do not use the equipment if tired or under the influence of drugs, alcohol or medication. This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities. <p>General Fuel Safety</p> <ul style="list-style-type: none"> Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources. Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing. Do NOT smoke near fuel or when refuelling. Always shut off the engine before refuelling. Do NOT refuel a hot engine. Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly. Always refuel in well ventilated areas. Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed. <p>General Carbon-Monoxide Safety</p> <ul style="list-style-type: none"> Using a combustion engine indoors CAN KILL IN MINUTES. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see. Use combustion engines OUTSIDE only, and far away from windows, doors and vents. 	<p>General Equipment Use and Care</p> <ul style="list-style-type: none"> The equipment is designed for domestic use only. Handle the equipment safely and carefully. Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use. Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on. Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters. Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations. Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated. Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc. The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid. Do not clean equipment with solvents, flammable liquids or harsh abrasives. For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Metal Cut-Off Saw Safety

- Keep the work area clean and bright. A messy, dark work area may cause accidents.
- Do not operate the saw in explosive environments such as flammable liquids, gases, or dust. The sparks generated by an electric tool will ignite the dust or gas.
- Do not operate the saw with children and/or other people around the work area. Distractions can cause the operator to lose control of the tool.
- The plug must match with the socket. Do not modify the plug in any way or use any changeover plug. This is to reduce chances of electric shock.
- Do not come in contact with grounding surfaces, such as pipelines, radiators, and/or refrigerators to avoid electric shocks.
- Do not expose the saw in rain or any wet environment.
- Do not abuse the electrical cord. Do not use the electrical cord for moving and pulling the saw or pulling out the plug. Keep the electric cord away from heat sources, oil, sharp edges, or moving parts.
- Use external flexible cords suitable for outdoor use if the saw is going to be used outdoors.
- Use a residual current device (RCD) if you need to operate the saw in a wet environment.
- Stay alert. Pay close attention to the saw and stay awake while operating it. Do not operate the saw when you are tired or under the influence of drugs, alcohol, or medical treatment. A momentary negligence occurring during the operation of an electric tool can cause serious personal injuries.
- Always wear protective clothing. Dust masks, antiskid safety shoes, safety helmets, hearing protection, and other protective clothing can reduce personal injuries.
- Prevent unexpected starting. Ensure that the switch is in the OFF position when the power supply and/or the battery box are connected or when the tool is picked up or moved. Putting fingers on the switch or inserting the plug when the switch is in the ON position can be very dangerous.
- Remove all the adjusting keys or wrenches before the saw is switched ON.
- Do not stretch the hands too long. Pay constant attention to the foothold and body balance, so that the tool under operation can be controlled well if unexpected circumstances occur.
- Dress appropriately. Do not wear loose clothes or wear some accessories. Keep clothes, gloves and hair away from moving parts.
- If the devices used for connecting with the chip-removal and dust-collection equipment are supplied, ensure the connections are in good condition and the use of such devices is proper. The use of these devices can reduce the risk caused by chip and dust.
- Do not abuse the saw. Select a suitable saw according to its usage. Selecting a properly-designed saw will make your work more efficient and much safer.
- The saw cannot be used if its switch is not power-on or its power supply is turned off. The saw which cannot be controlled by switch is dangerous, and it must be repaired.
- The plug must be pulled out from the power supply and/or the battery box must be disconnected from the saw before any adjustment, replacement of accessories, or storage of such tool are carried out. These protective measures will reduce the danger caused by expected starting.
- Store the saw in a place away from children's reach, and do not let persons who are not familiar with the saw or these instructions operate the saw. The saw is dangerous when they are in the hands of those users who are not trained.

- Carry out maintenance for the saw. Check whether the moving parts are adjusted in position or they are stuck and check the damage conditions of the parts and other conditions affecting the operation of saw. If there is any damage, the saw must be repaired before use. Many accidents may be caused by the poor maintenance of saw.
- Keep the cutting blade sharp and clean. The sharp cutting tool of good maintenance will not get stuck and it can be controlled easily.
- Use the saw, accessories, and cutting heads as per operation manual and according to the operating conditions and the works being done. Apply the saw to the operations which do not match with their purposes may cause a danger.
- Deliver your saw to a professional technician and use the same spare parts to repair. This will ensure the safety of the repaired saw.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc, replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>WARNING EXHAUST FUMES Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>

 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	

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Before Use Checklist

Breaker

Confirm whether an earth leakage breaker (hereafter referred to as breaker) is set between the product and the power supply.

Power supply

Confirm whether the power supply used conform to the specification marked on the nameplate of the electric tool.

Power switch

Confirm whether the switch of power supply is turned OFF. If the switch is turned ON, the saw will rotate suddenly when the plug is inserted into the socket of power supply.

Extension cable

If the work place is far away from the power supply, an extension cable which matches with the power supply should be used. Extension cable should be as short as possible.

Confirmation of the Clamping Condition of Grinding Wheel & Each Part

Confirm whether the grinding wheel is installed on the machine before operation and use the wrench (17mm) to screw it tightly before the machine is operated. Confirm whether other parts are fastened or not. For details, please refer to [Assembly and Set-Up](#).

Check the Socket of the Power Supply

If any abnormal noise or loose parts occurs when the plug is inserted into the socket, please repair it immediately. Continuing to use them may cause accidents due to overheating of the plug or socket.

Test Runs must be Done

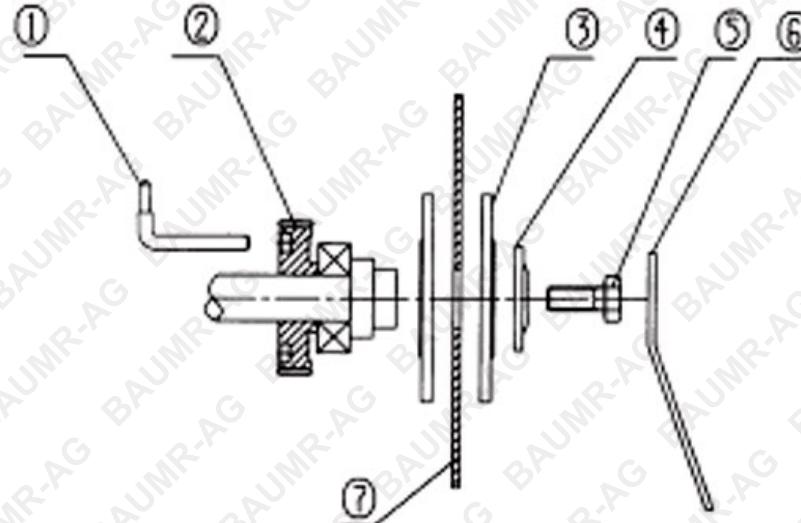
The grinding wheel can hurt other people. Before operation, ensure that the opening of the grinding wheel guard is aimed where there are no people present. Carry out the test runs and confirm whether abnormal conditions exist or not.

Assembly and Set-Up

Replacing the Grinding Wheel



WARNING: The switch must be turned OFF and the power supply must be cut OFF when the grinding wheel is installed or disassembled.



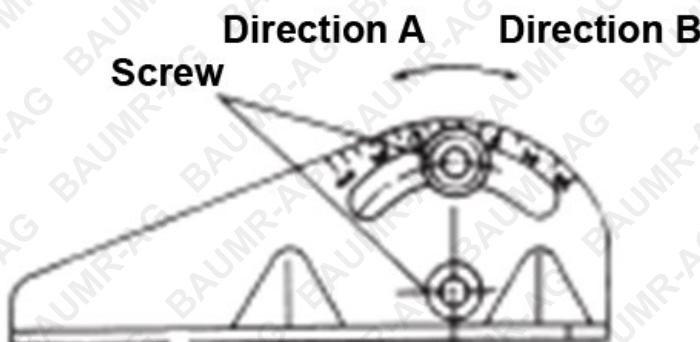
1. Disassemble the grinding wheel

Use your left hand to push the stop pin (1) and put it into the hole of the gear (2), and then secure it. Use the wrench (6) to loosen the bolt (5) and then take out the grinding wheel (7).

2. Installing the grinding wheel

Wipe any dust away from the clamping board (3) of the grinding wheel, gasket (4), and bolt (5) first, then install the grinding wheel (7), clamping board (3), gasket (4), and bolt (5) in sequence. Use your hands to grasp the grinding wheel firmly, and finally use the wrench (6) to lock the bolt (5). Confirm whether the stop pin (1) returns to the initial position after the installation is finished.

Changing the Cutting Angle



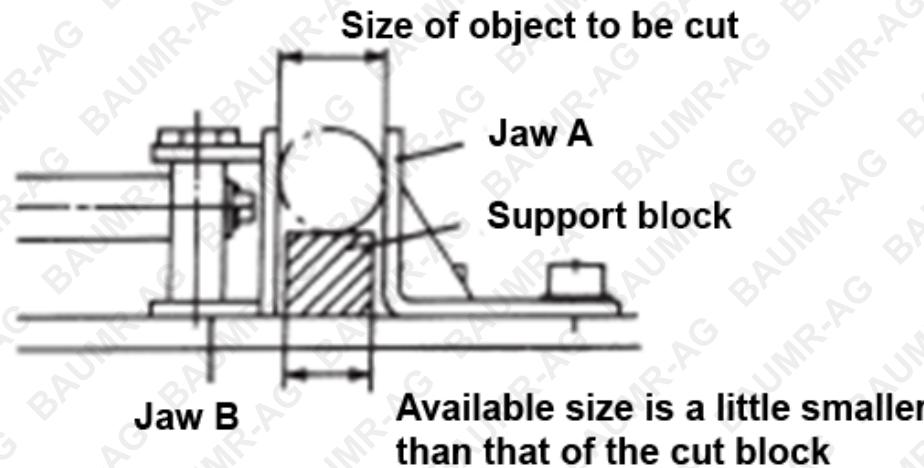
Loosen the two screws of the jaw (A). Adjust the jaw (A) to the angle suitable for operation with reference to the scale.



Please turn the jaw towards Direction A when the angle of jaw is changed. Notice if the jaw touches the grinding wheel when the jaw is turned towards Direction B.

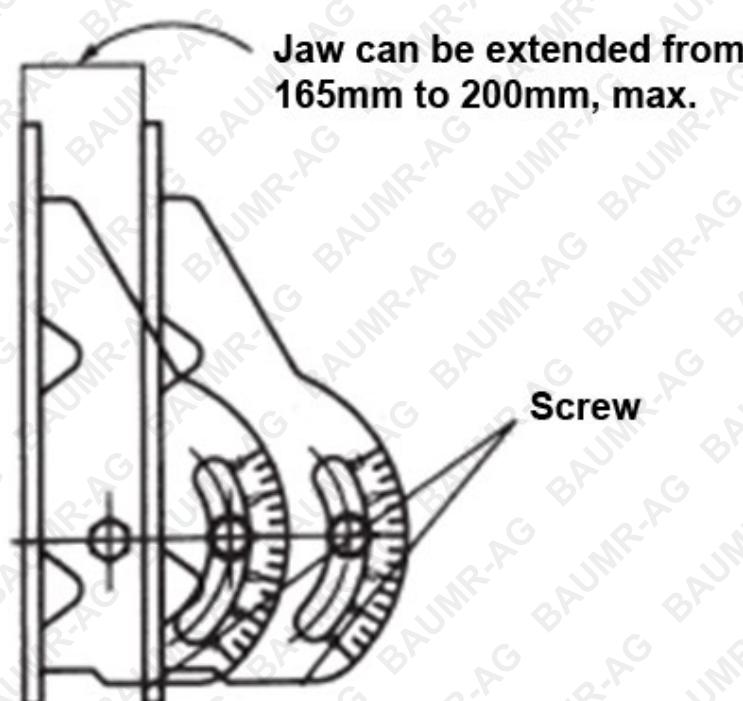
Application Method of the Base Plate

When the grinding wheel wears out and becomes smaller, put the support block which is a little smaller than the cut object between jaw (A) and jaw (B), and then the grinding wheel can continue to be used.



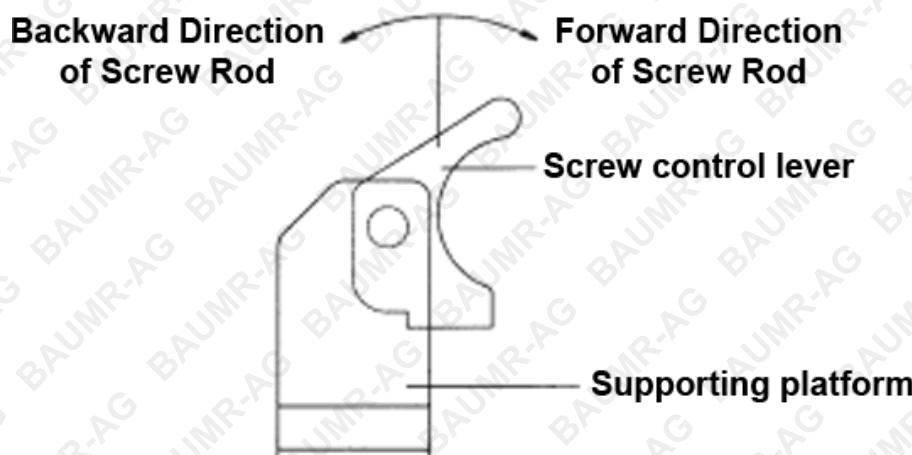
Moving the Jaw

When the cutting object has been removed, the space between jaw (A) and jaw (B) can be adjusted to 165mm. If a wide object needs to be cut, loosen the two screws used for fixing jaw (A) and screw it back to the position shown by the drawn line. The space between two jaws can then be extended to 200mm.



Moving the Screw Rod

When the cutting object is fixed in place, put the screw control lever located on the support platform at the forward direction of screw rod and press it tightly; then rotate the crank, move the jaw (**B**), and fix the cut object. After the cutting operation is finished, rotate the crank anticlockwise, and push the screw control lever along the backward direction of screw rod; then pull the crank in a straight line, the jaw (**B**) is pulled back and the cut object is loosened, so as to make the operation is simpler and more convenient.



Adjusting the Set Screw

When the set screw has been adjusted to the position where the grinding wheel (14") cannot touch the ground during operation, the operation with the use of worn and smaller grinding wheel can be realized by adjusting the position of the set screw.



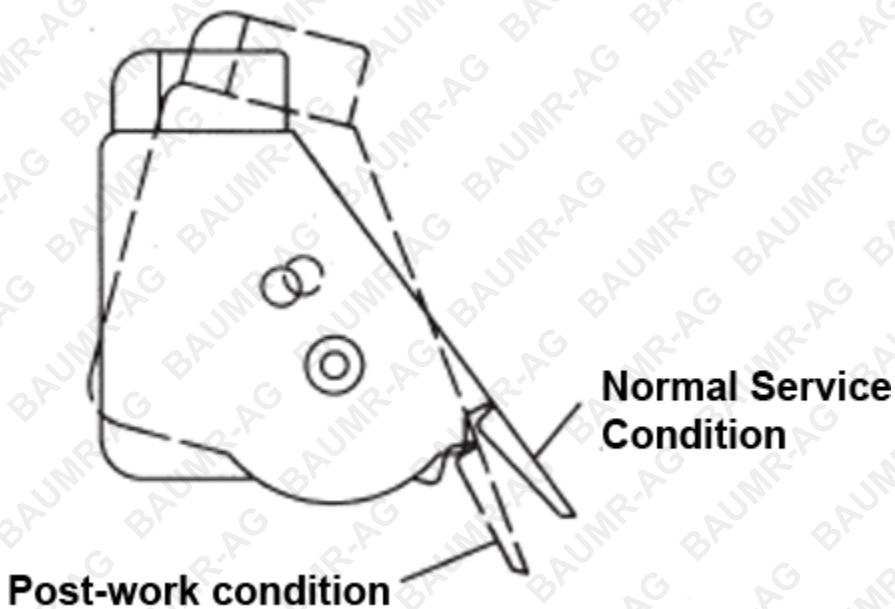
WARNING: When a new grinding wheel is used, the set screw must be turned to a position where the grinding wheel will not touch the ground.

Adjusting Method of Set Screw

1. The operation can be carried out after the power supply is cut off.
2. Use wrench (17mm) to loosen the lock nut completely, and then adjust the position of screw to a height where the grinding wheel is unable to touch the ground.
3. Fasten the lock nut tightly.

Dust Cover

The dust cover needs to be adjusted to the position of normal service along the directional arrow before use, and then the cutting operation can be carried out.



Operation

Cutting Method

1. Turn the switch to ON, then press the handle lightly after the grinding wheel rotates and let the grinding wheel approach the cutting object slowly.
2. Press the handle to carry out the cutting by pressing the handle slowly after the grinding wheel meets the cutting object.
3. Lift the handle up from the position where the cutting is finished, and then it will recover to the original position.
4. After one operation is finished, turn the switch to OFF so that the grinding wheel will stop rotating, and then prepare the next operation.
5. It is dangerous if the cutting object is moved or placed for a long time under the rotation of the grinding wheel.



WARNING: Ensure that the contact between the cut object and the jaws has been fixed safely.

Application Method of the Switch

Press the switch button and the saw will run, while releasing the switch button will make the saw stop. Press both switch and locking buttons at the same time if you need continuous operation. The saw will then run continuously. Press the switch button and then release it if you need the saw to stop. The locking button will then disengage, and the saw will stop. If the locking button cannot be disengaged, that means a fault has occurred to the switch. If this happens, please cut-off the power supply immediately and stop using the saw. Have it repaired by a qualified technician.

Precautions after Use

Do not put the saw in the location where chipping and dirt exist immediately after the operation is finished, but the running does not stop completely.



The grinding wheel will be broken or have cracks if the saw is impacted. Note that the saw should not be impacted during operation. If the saw is impacted or falls before use, please check the grinding wheel thoroughly, to confirm whether there is a fracture or crack. Please do not press the locking button when the product is rotating.

Maintenance and Inspection



WARNING: Turn off the switch and cut off the power supply before maintenance and inspection.

Inspecting the Grinding Wheel

Check the grinding wheel for signs of any fracture or surface defect.

Inspecting the Screws of Each Part

Check the screws of each part periodically to confirm whether it is fastened properly or not. Screws should be fastened in time if it is found to be loose, otherwise a serious accident could occur.

Maintenance of Motor

The motor coil is the core component of the saw. It should be protected from being damaged or contaminated by oil dirt, water, or other debris, etc.

Detecting the Ventilation Part of Saw Casing

If the work place is not clean or the operation is not clean, dust, dirt (such as concrete and small impurities) and others may come into the ventilation opening, so the motor gets easily hot. Remove the accumulated dust and dirt from the ventilation opening before use, and then the operation can be carried out.

Inspection of Carbon Brush

The carbon brush is the consumable of the motor. Using an over-worn carbon brush may result in a motor fault. Replace the worn carbon brush with a new one of the same specifications when it wears to the abrasion line. Additionally, keep the carbon brush clean and make it slide smoothly in the brush groove. The automatic-stop carbon brush may be used without announcement in advance for improving the quality; thus, when the carbon brush wears to the abrasion line, the blocking spring inside it will pop out, and then the saw will stop rotating; at this moment, you can take out the carbon brush, so as to confirm whether it wears completely.

Replacement method of carbon brush: Use a straight screwdriver to dismantle the cover of the carbon brush, and then replace it easily.

Storage after Operation

The saw must be stored in a place where children cannot reach it.

Abnormal State of the Saw

If an abnormal state occurs to the saw, do not find the fault or repair it by yourself. Have a qualified technician repair it instead.

Specifications

Model	COS-355
Rated power	2500W
No load speed	3900rpm
Blade size	355mm/14"
Cutting capacity	110 x 130mm
Maximum Mitre Cut	45°



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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