

Bäumr-AG



20 Ton Electric Log Splitter

User Manual

[Revision 6.0 April 2018]

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:

 You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.	 You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.	 You CAN be INJURED if you do not follow instructions or equipment damage may occur.
<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/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, consider conditions and pay due care to persons and property. Ensure that any property that may be damaged by equipment failure is not within the work area / operating range. <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	General Electrical Safety	General Service Information
<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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 making adjustments, changing accessories or performing repair or maintenance.Do NOT make adjustments 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.

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>	<p>Corrosive Substance Hazard The product may contain corrosive substances that can harm or otherwise cause damage. Take due care when handling and using the product.</p>
			
<p>Explosion Hazard The product may contain substances that can explode under certain conditions or misuse. Take due care when handling and using the product.</p>			

Equipment Safety



Log splitting machines produce high hydraulic pressures and have exposed parts that can cause serious injury if not used correctly or without taking proper safety precautions. **It is extremely important that you read and fully understand the information in this section and all other safety warnings / recommendations and usage instructions before using the equipment.**

Operator

- If you are untrained in the use of a log splitter, it is highly recommended that you be trained/instructed by a suitably qualified or experienced person before using the machine.
- Fully understand how to safely operate the machine and the log splitting process. See Log Splitter Operation.
- The machine must be operated by one person only.
- You must be in good physical condition to use a motorised cultivator. NEVER operate the machine when tired, or under the influence of any substance (medication, alcohol, drugs etc) that may impair your judgement, alertness, physical strength, vision or dexterity.
- Crush / amputation hazard - keep hands away from moving parts and from splits/cracks that open in logs.
- Maintain sure-footing and balance always when using or handling the machine and have full awareness of your surroundings and any possible hazards.

Clothing and Protective Equipment – All Operators and Assistants

- Wear approved safety goggles, or safety glasses with adequate top and side protection..
- Wear suitable hearing protection.
- Wear heavy-duty, non-slip leather or protective gloves.
- Wear approved heavy-duty safety boots, with steel toe-caps and non-slip soles.
- Wear suitable overalls or work clothing that fits snugly, but does not restrict movement. Avoid loose fitting clothing, scarves, jewellery etc and keep long hair contained to avoid getting caught or pulled by the chainsaw or by tree branches etc.

Work Area Safety

- Do not allow helpers or bystanders within 30m (90') of the machine. Bystanders should wear eye protection.
- Do NOT use in wet conditions.
- Ensure that the work area is dry, level and firm enough to adequately support the machine.

Operational Safety

- Do NOT use the machine if the control lever or any safety guard or mechanism is not installed or is not operating correctly – have the machine inspected and repaired at an authorised service centre before using it again.
- Do not load or unload logs whilst the ram is moving.
- Do not remove jammed logs by hand.
- Make sure there are no nails or foreign objects in the logs to be split.
- Log ends must be cut square.
- Branches must be cut off flush with the trunk.
- Always split logs in the direction of the wood grain.
- Do NOT use the equipment for purposes it is not designed for, such as splitting non-wood material.
- Do not attach the machine to fixed supports.

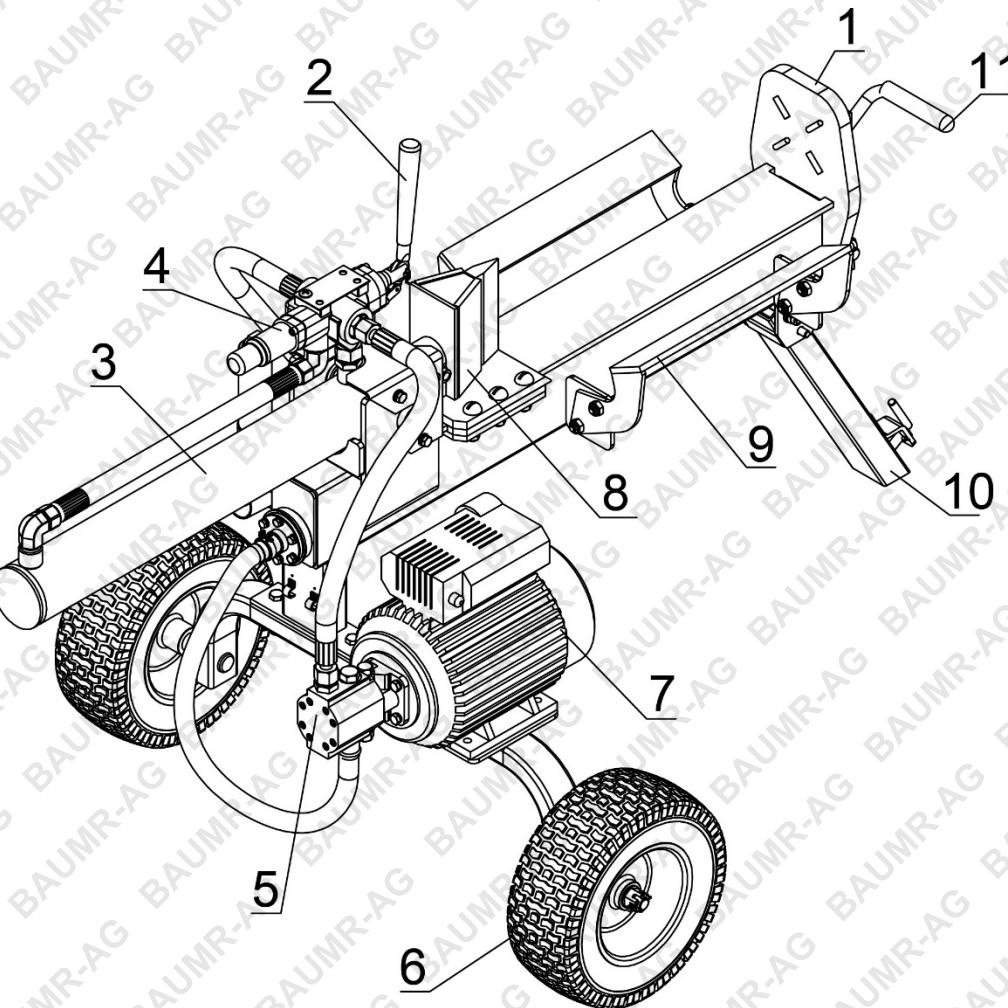
Transportation Safety

- Always STOP the machine before transporting or working on it (adjusting etc).
- Do not carry passengers, or allow any person to sit or stand on the machine.
- Always fully secure the machine to the towing vehicle hitch before towing.
- Use caution when towing. Tow with an appropriate vehicle, and avoid slopes, ditches etc.
- Do not tow on public roads.

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Controls and Features Identification



No.	Name	No.	Name
1	Main Machine Frame	7	Motor
2	Control Lever	8	Splitting Wedge
3	Hydraulic Ram	9	Log Cradle
4	Control Valve	10	Support Leg and Tow Hitch
5	Oil Pump	11	Handle
6	Wheel		

Before Use Checklist



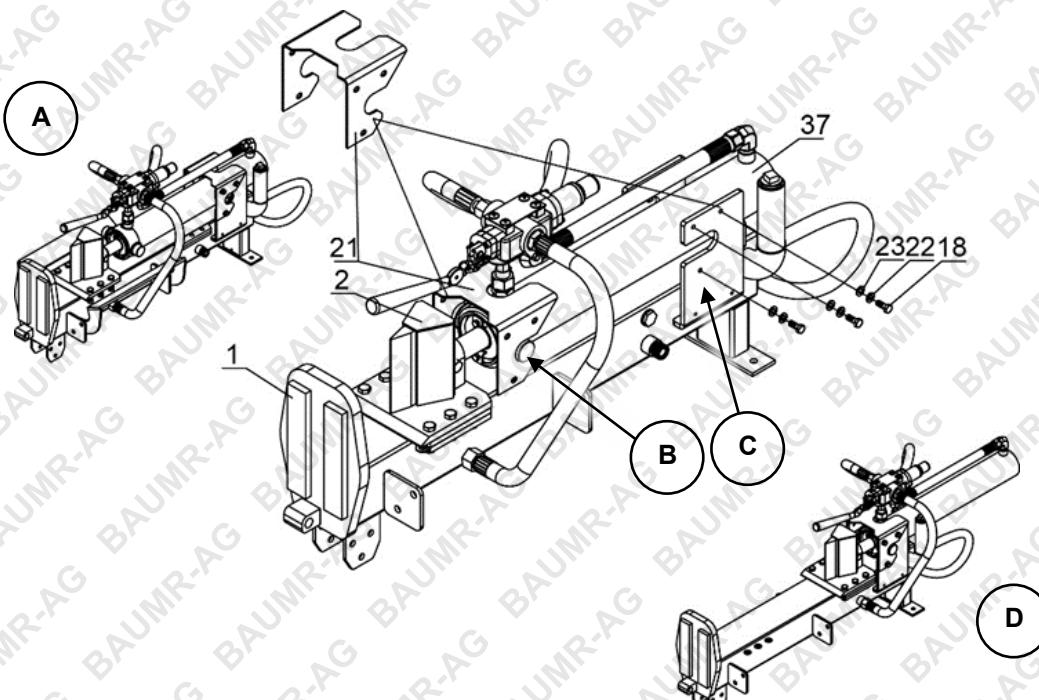
Ensure that you carry out all procedures below before operating the equipment. All procedures described are generic in nature and slight variations between different models may exist. **Failure to follow the checklist and carry out the procedures correctly may result in making the product warranty void.**

Assembly

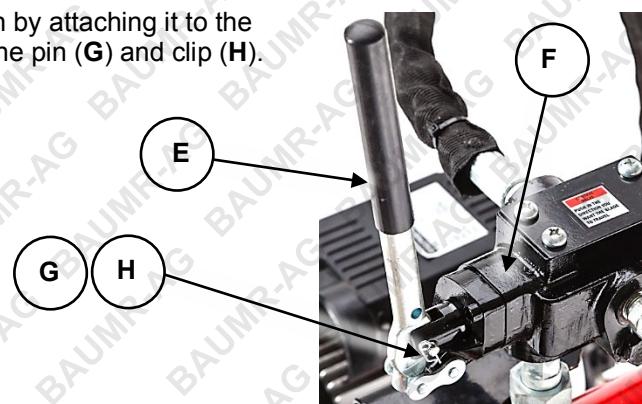


2 or more persons are required for assembly. • Suitable tools (not supplied) are required for correct assembly. • Check all parts have been supplied and are in good condition before commencing assembly. • Fasteners are pre-assembled to applicable parts. • Washers are to be placed under nuts unless otherwise stated. • Firmly secure all fasteners.

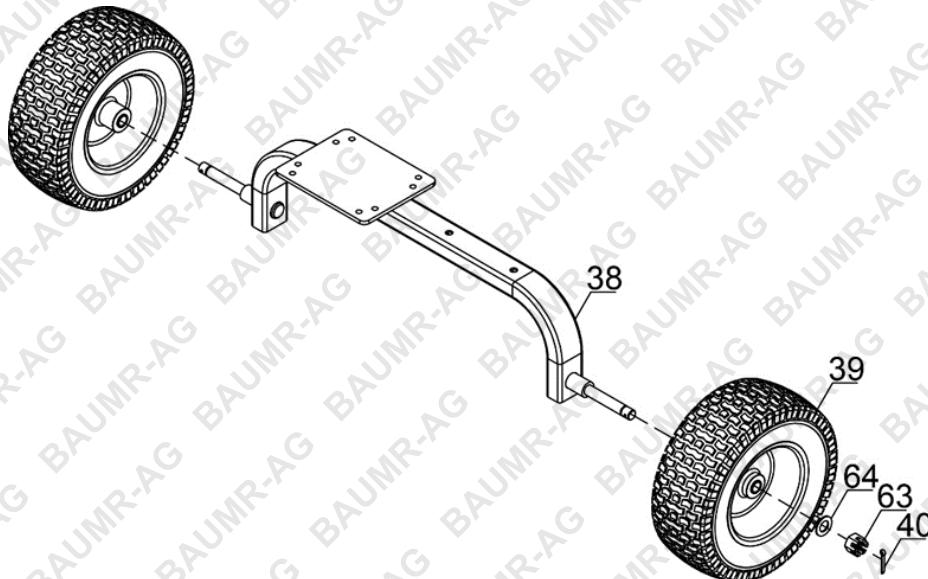
1. Remove the 6 M8x20 bolts (18), spring washers (22) and washers (23) securing the ram guard (21) to the main machine frame (1) in the packing position (A).
2. Carefully pull the hydraulic ram assembly (37) backward so that the stops (B) on each side of it are fully in the slots in the bracket (C) at the rear of the main machine frame.
3. Place the ram guard (21) into position at the front of the hydraulic ram assembly (37), then attach it to bracket (C) using the previously removed fasteners. The machine is now in the operating position (D).



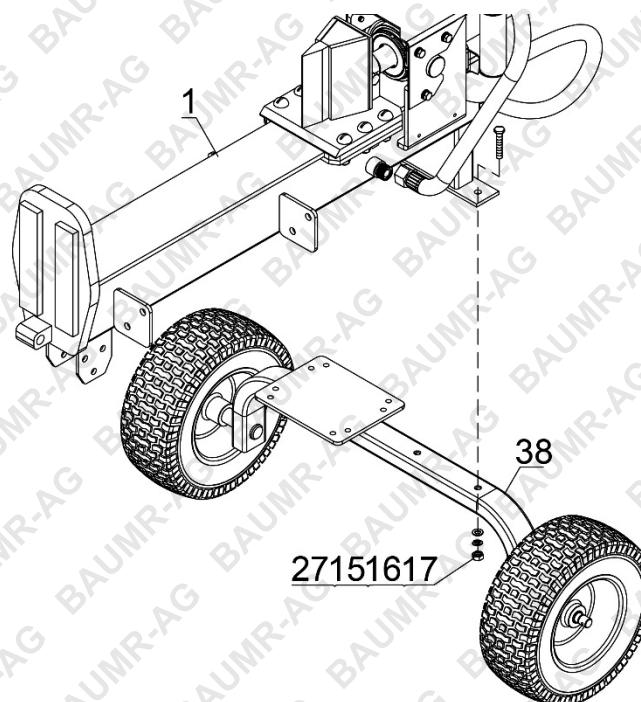
4. Place the control lever (E) in the operating position by attaching it to the control valve (F) and securing it in position using the pin (G) and clip (H).



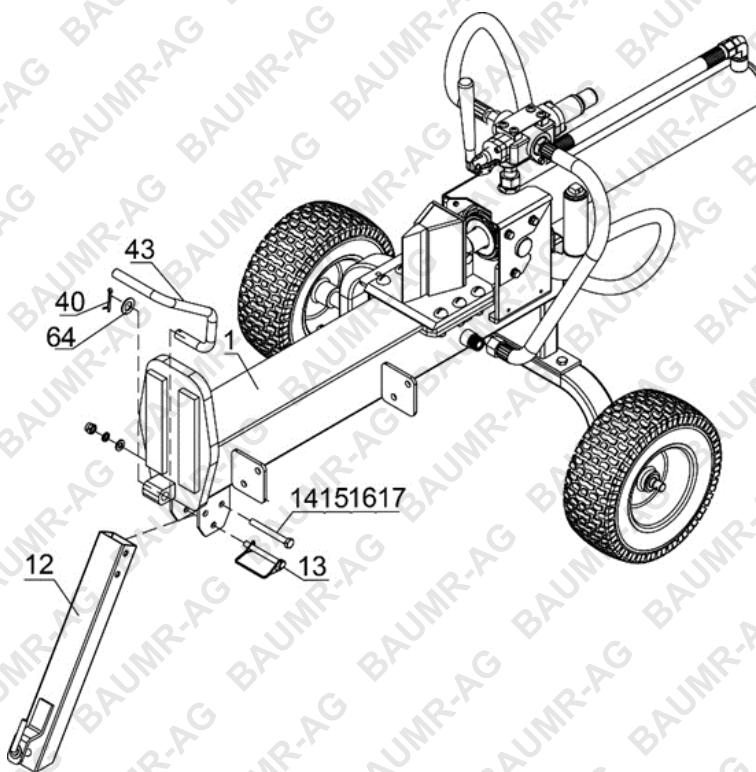
- Remove the split pin (40), M16 castellated nut (63) and M16 washer (64) from the axle on either end of the axle assembly (38). Then, slide each wheel (39) onto the axle. Place a M16 washer onto the axle, then the M16 castellated nut. After tightening the nut, insert a split pin through the nut and axle, then bend the pin legs to prevent it from falling out



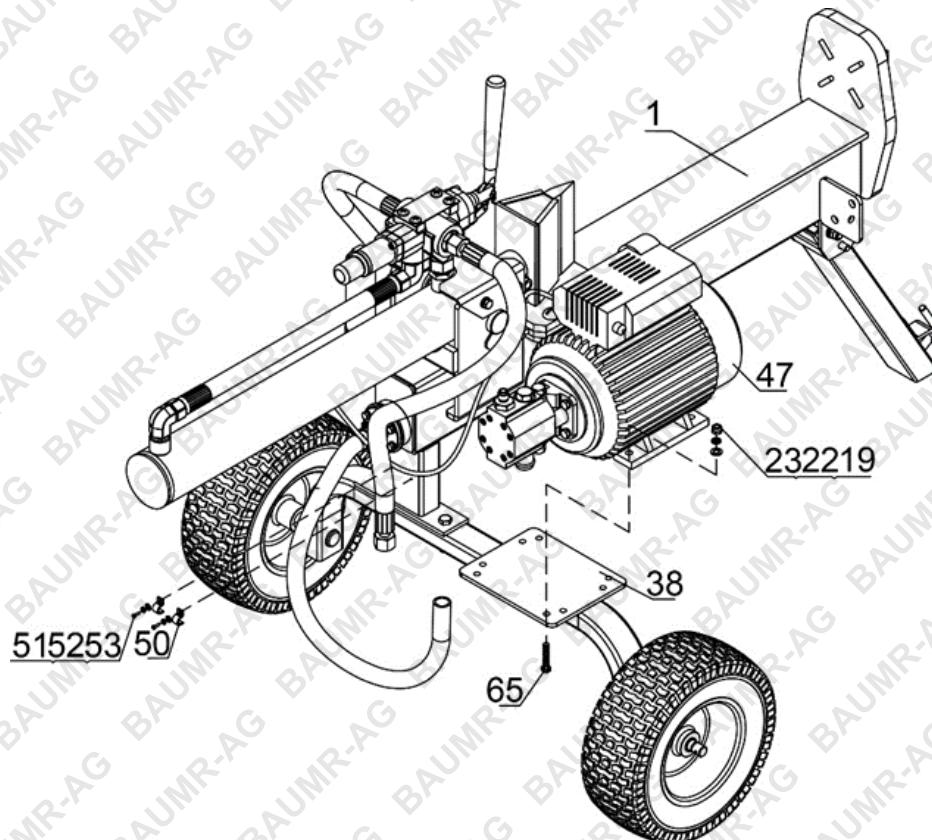
- Remove the 2 M10x55 bolts (27), spring washers (16), washers (15), and nuts (17) from the axle assembly, then attach the axle assembly to the main machine frame (1) using the fasteners.



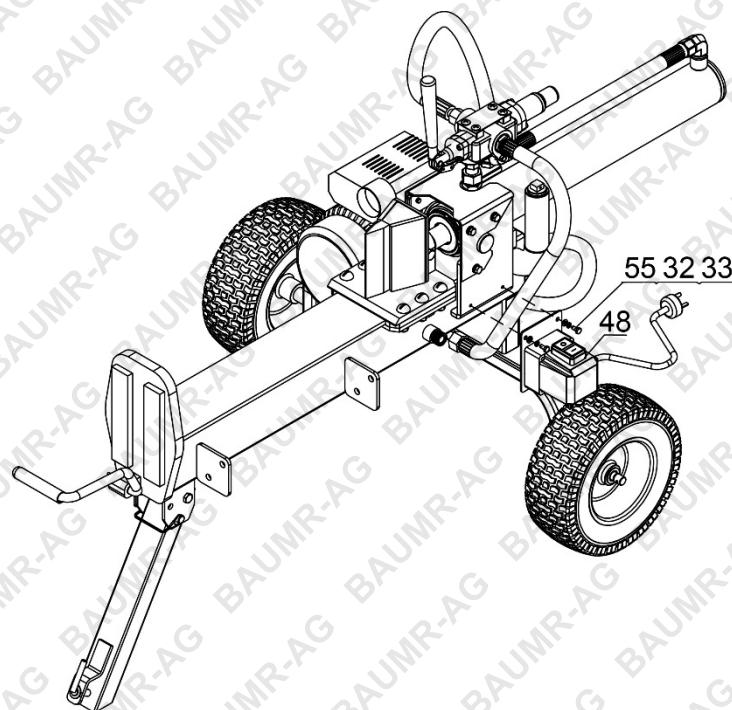
- Remove the M10x90 bolt (14), nut (17), spring washer (16), washer (15) and locking pin (13) from the support leg (12). Attach the support leg (R) to the bracket at the front of the main machine assembly (1) using the previously removed fasteners.
- Slide the handle (43) into position at the front of the main machine frame (1) and secure it using the M16 washer (64) and split pin (40) - insert the pin through the handle, then bend the pin legs to prevent it from falling out



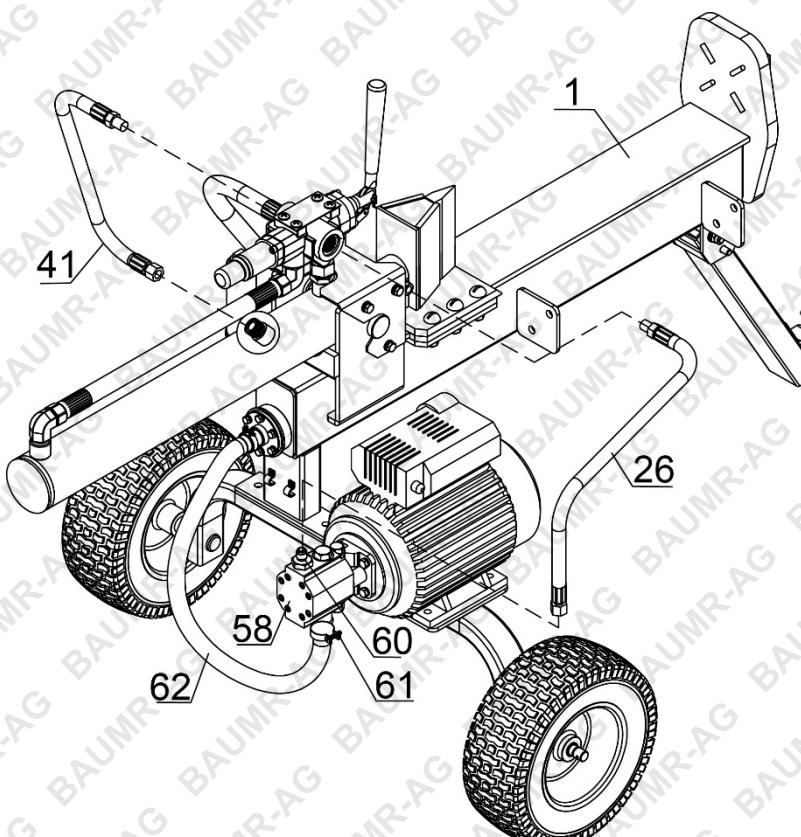
9. Remove the 4 M8x35 bolts (65), washers (23), spring washers (22) and nuts (19) from the motor mounting plate on the axle assembly (38). Attach the motor (47) to the plate (ensure that the pump is facing toward the rear of the machine) using the previously removed fasteners.
10. Secure the motor electrical cable to the rear of the main machine frame (1) using the supplied clips (50), M3x10 bolts (51), washers (53) and spring washers (52).



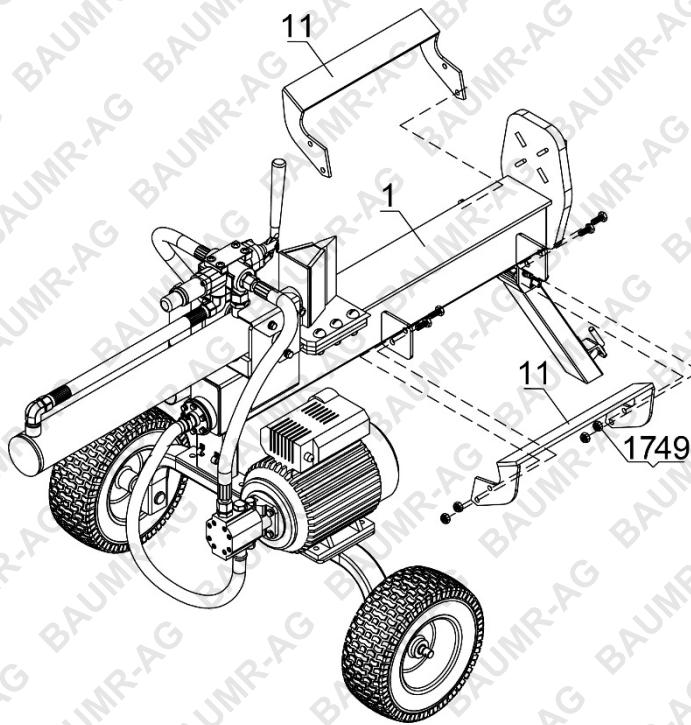
11. Attach the ON/OFF switch assembly (48) to the left side of the machine frame using 2 M6x12 bolts (55), spring washers (32) and washers (33).



12. Connect the oil pump outlet hose (26) to the oil pump (58) at connector (60) and to the control valve (motor side of the machine).
 13. Connect the oil return hose (41) to the machine frame connector (the frame is the oil reservoir) located near the ON/OFF switch (non-motor side of the machine) and to the control valve.
 14. Connect the oil pump inlet hose (62) to the oil pump (58) at connector (61) and to the connector at the rear of the main machine frame (the frame is the oil reservoir).



15. Attach the log cradles (11) to each side of the main machine frame (1) using 4 M10x25 bolts (49) and nuts (17).



Hydraulic Oil

The hydraulic system requires adequate hydraulic oil of the correct type to operate safely and efficiently. The machine is shipped without hydraulic oil although some oil may be supplied. Check the hydraulic oil level and ensure that it is at the recommended level. See [Hydraulic Oil](#).

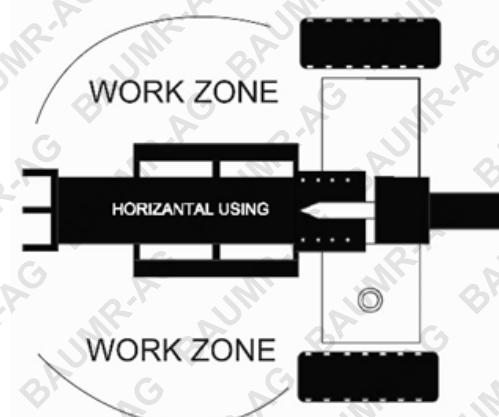
Log Splitter Operation



The machine must be operated by one person only. Do not allow helpers or bystanders within 30m (90') of the machine. Bystanders should wear eye protection. • Make sure there are no nails or foreign objects in logs to be split. • Log ends must be cut square. • Branches must be cut off flush with the trunk. • Always split logs in the direction of the wood grain. • Do not load or unload logs whilst the ram is moving. • Crush / amputation hazard - keep hands away from moving parts and from splits/cracks that open in logs. • Do not remove jammed logs by hand. • Ensure that when initially retracting the ram that the timber has split and is separated from the wedge. **If timber becomes jammed on the wedge and moves up when retracting the ram, do NOT fully retract the ram as this may cause injury and/or damage the machine. Remove the timber from the wedge before fully retracting the ram.** • Do not change the machine set-up between vertical and horizontal when the machine is running or timber is loaded into the machine. • Ensure that the hydraulic ram assembly is locked into position before using the machine. • Before use, check the hydraulic oil level with the ram in the fully retracted position. • Make sure all fittings are secure before applying pressure. • Make sure the hydraulic hoses do not touch any hot surfaces or are in or near the splitting area. • To avoid serious bodily injury, inspect the hydraulic system (hoses, fittings and connections, and hydraulic pump) before operating the machine. Very high fluid pressure and temperatures are created in the hydraulic system. Hydraulic fluid will escape through the smallest opening and can puncture skin and cause severe injury and blood poisoning. **Never check for leaks with your hands or any other body part while the hydraulic system is pressurised – use a piece of wood or other hard material that any leak will be visible on. Seek medical attention immediately if injured by hydraulic fluid.** • The hydraulic oil needs to be above -12°C (10°F) before starting the engine. Cold hydraulic oil can damage the hydraulic pump. If the air temperature is below 0°C (32°F), allow the oil to warm up by extending and returning the wedge several times before splitting wood.

Note that once the engine is running, the hydraulic pumping action of the machine activates. When the engine is idling (slowest continuous running speed), the hydraulic pressure is minimal. As you increase engine speed (use the engine throttle control), the hydraulic pressure increases. Note the following recommendations:

- Set-up and operate the machine on a dry and level surfaces with good footing. Do not work on mud, loose, or slippery ground surfaces, and chock the wheels before use.
- Lower the support leg (if equipped) from the towing arm position:
 1. Unlock the support leg (AA) from the towing position by removing the locking pin (BB).
 2. Swing the leg down to the low position, then secure it with the locking pin.
- Connect the machine to a 240VAC mains electrical supply.
- Press the "ON" ("I") button to switch on the motor. To switch off the motor, press the "OFF" ("O") button.
- Maintain a clearance of at least 2.5m (7') around the machine at all times to any combustible material.

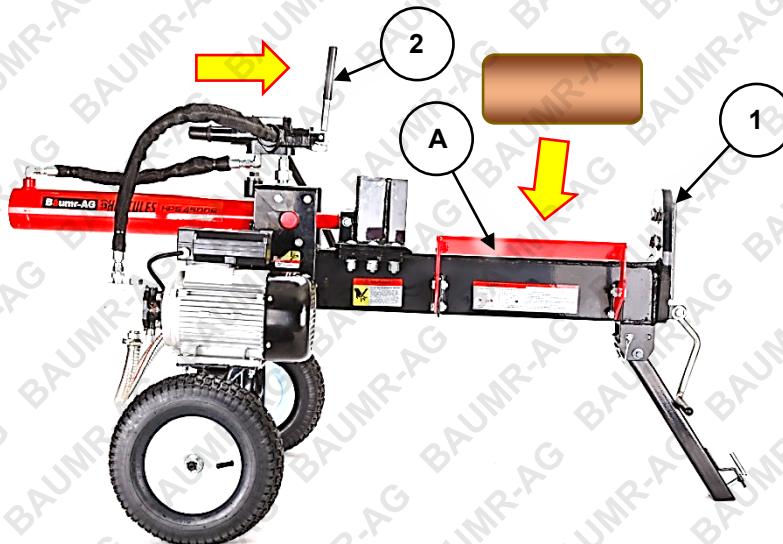


Splitting Logs

1. Place the log on the slide/work table (A), with one end up against the non-moving part – that is, log stop (1).
2. Operate the hydraulic ram using the ram control lever (2). Move the lever in the direction of the log stop and hold it there for the hydraulic ram/wedge to push the forward.
3. Push the wedge into the log until it splits, then release the lever.
4. When the wedge is free from the log, move the ram control lever in the reverse direction to retract the ram/wedge.



Ensure that when initially retracting the ram that the timber has split and is separated from the wedge. **If timber becomes jammed on the wedge and moves up when retracting the ram, do NOT fully retract the ram as this may cause injury and/or damage the machine. Remove the timber from the wedge before fully retracting the ram.** • If the log is not splitting, do NOT keep pressure against the log for more than 5 seconds. This places additional stresses on the machine and may damage it or the hydraulic system. In such cases rotate the log 90° and attempt to split it again. If this is not successful, the log may be too hard for the capacity of the machine and should be discarded

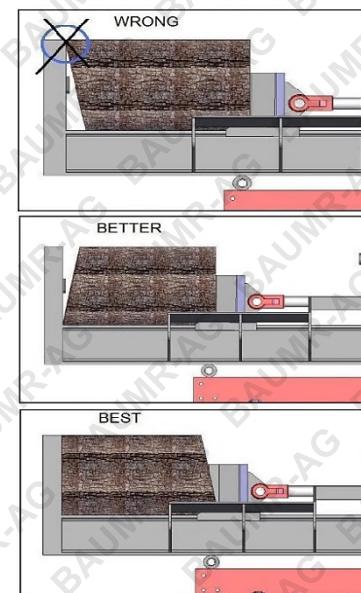


Working with Logs

- Always set logs firmly on the slide / work table.
- Ensure that logs will not twist, rock or slip while being split.
- Ensure that logs have good contact with the splitting wedge. Splitting against the top of the wedge may break the wedge or otherwise damage the machine. Use the adjacent diagram for the safest method of splitting logs with slanted faces

Extracting Jammed Logs

- Release pushing pressure against the log. Do NOT fully retract the ram/wedge.
- Insert a wooden wedge under the log at the log stop, narrow edge under the end of the log.
- Use the log splitter to push the log over the wedge to release it. Various sized wedges may need to be tried. A crowbar can also be used to lever the log from the wedge. Do not strike the jammed log to free as this may damage the machine or launch the log.



Towing

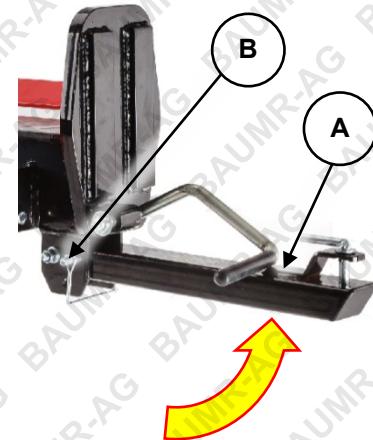
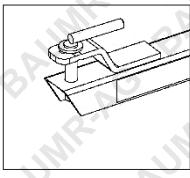
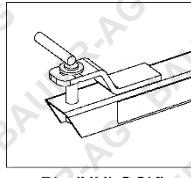


Before towing, ensure the axle nuts are tight and the axle nut split pins and securely in place. • Ensure that the tyres are inflated to the pressure marked on the tyre wall. • Do not tow if the tyres are worn, damaged or do not hold air pressure. • Do not tow the machine in the vertical position. Ensure that the hydraulic ram assembly is locked in the horizontal position before towing. • Do not carry passengers, or allow any person to sit or stand on the machine. • Always fully secure the machine to the towing vehicle hitch before towing. • Use caution when towing. Tow with an appropriate vehicle, and avoid slopes, ditches etc. Refer to the towing vehicle owner's manual for correct safety and towing instructions. • Do NOT tow on public roads.

1. Raise the front support leg and secure it in the towing position:

- Unlock the front support leg (**A**) by removing the locking pin (**B**).
- Swing the leg up to the horizontal towing arm position, then secure it with the locking pin.

2. Hitch the towing arm securely to the towing vehicle, then place the hitch pin in the locked position.



Maintenance



Switch the machine OFF and disconnect it from the electrical supply during inspection and maintenance unless specifically required. • Some maintenance activities may be beyond the scope of some users. Do NOT attempt procedures that you are not comfortable with, or do not have the necessary tools, experience or knowledge for – take the unit to an authorised service centre or qualified technician for servicing. • Harsh operating environments such as extreme temperatures, dust etc may necessitate more frequent maintenance. • **Failure to follow the maintenance schedule, using incorrect or non-compatible accessories or replacements parts, or general negligence may result in making the product warranty void.**

To keep the machine performing at optimal efficiency, regular checks and maintenance is required.

Hydraulic System



Very high fluid pressure and temperatures are created in the hydraulic system. Hydraulic fluid will escape through the smallest opening and can puncture skin and cause severe injury and blood poisoning. **Never check for leaks with your hands or any other body part while the hydraulic system is pressurised – use a piece of wood or other hard material that any leak will be visible on. Seek medical attention immediately if injured by hydraulic fluid.** • Before performing any maintenance, relieve any hydraulic pressure – with the motor OFF, use the ram control lever to move the ram forward and back until it no longer moves (the pressure is released). • If any hydraulic system components are damaged or show signs of wear, replace them before using the machine. Do NOT remove the hydraulic oil fill cap when the system is pressurised, the motor is running or the oil is hot. • Always check the oil level before using the machine and ensure it is at or close to the recommended level. • Oil should be replaced approximately every 200 hours of machine use or if it has a milky or cloudy appearance, which indicates that it has absorbed considerable moisture. Before changing oil, ensure that it is cool enough to not cause burns. • Suitable hydraulic oil is 10W AW-32, ASLE H-150, or ISO 32. • **Before first use, add and hydraulic oil and double-check oil level.**

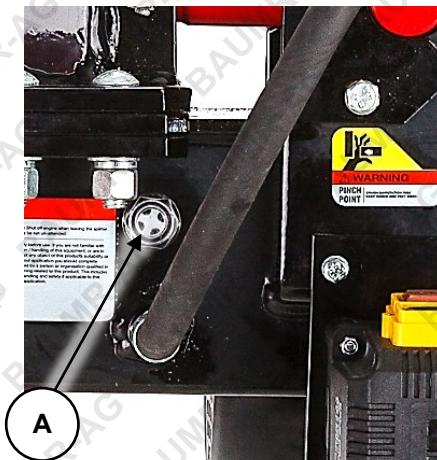
- Before each use, check all hydraulic hoses, connections and fittings for signs of wear or damage or leaks. Ensure all hydraulic connections and fittings are secure.
- Lubricate the hydraulic ram slide (A) and edges with grease before each use and ensure it is clean and free of debris after each use.



Checking and Changing Hydraulic Oil

To check hydraulic oil level:

1. Place the machine on a flat and level surface.
2. Observe oil level using the oil level sight glass (A) on the left side of the machine.
3. Ensure that the oil level is at approximately 70 to 80% up the sight glass. If the oil level is low, add additional oil until the correct level is reached. If the oil level is too high, drain some oil until the correct level is reached.



To change the hydraulic oil:

1. Place the machine on a suitable surface that is flat and level and have a container ready to catch drained oil.
2. Remove (rotate left) the drain plug (**A**) on the underside of the oil reservoir (main machine frame) and allow oil to drain from the tank.
3. When all oil is drained, clean the drain plug and any sealing washer or O-ring and then reinstall it. Screw the plug in fully (rotate right) and firmly tighten.
4. Remove (rotate left) the oil filler plug (**B**).
5. Using a funnel, carefully add oil to the hydraulic oil tank until the recommended level is reached (approximately 5 litres). Double- check the oil level.
6. When finished, re-install (rotate right) the oil filler plug until firm. Wipe off any residual oil from the machine.
7. Start the machine and extend and retract the ram several times to remove any air from the hoses.



Transportation and Storage



Switch the machine OFF and disconnect it from the electrical supply before transporting or storing the machine. • Always ensure that the machine is cool enough to touch before transporting or storing.

Preparing for Transport and Storage

- Clean the machine down by removing debris, dirt etc before storing it.
- Lightly lubricate all machine surfaces and moving parts to prevent corrosion.
- Store the unit in a dry, well-ventilated area and out of the reach of children.
- Cover the equipment to protect it.

Troubleshooting



Switch the machine OFF and disconnect it from the electrical supply during inspection and maintenance unless specifically required. • Some maintenance activities may be beyond the scope of some users. Do NOT attempt procedures that you are not comfortable with, or do not have the necessary tools, experience or knowledge for – take the unit to an authorised service centre or qualified technician for servicing.

The following information may assist in identifying a problem and rectifying it.

Difficulty starting the machine.

Possible Fault	Action
No power	Check that the machine is properly connected to a 240VAC mains electrical supply, and the power is ON.

Ram not moving.

Possible Fault	Action
Lack of hydraulic oil	Check oil level and ensure that the level is at the recommended level.
Hydraulic system blockage	Flush hydraulic system.
Faulty control valve	Repair or replace control valve.
Internal seal faulty	Replace worn or damaged seals.

Machine bogs down during splitting.

Possible Fault	Action
Control valve setting incorrect	Adjust control valve to provide correct pressure.

Ram speed slow when extending / retracting.

Possible Fault	Action
Lack of hydraulic oil	Check oil level and ensure that the level is at the recommended level.
Excessive pump inlet vacuum	Ensure pump inlet hose is not blocked, kinked etc.
Hydraulic system blockage	Flush hydraulic system.
Faulty control valve	Repair or replace control valve.
Internal seal faulty	Replace worn or damaged seals.

Wood not splitting or splitting very slowly.

Possible Fault	Action
Engine speed too slow	Increase engine speed.
 Lack of hydraulic oil	Check oil level and ensure that the level is at the recommended level.
 Air bubbles in hydraulic oil	Allow oil to "settle" for several hours for air bubbles to escape from oil. Air bubbling can build-up in the oil if the machine is used for prolonged periods.
 Excessive pump inlet vacuum	Ensure pump inlet hose is not blocked, kinked etc.
 Hydraulic system blockage	Flush hydraulic system.
 Faulty control valve	Repair or replace control valve.
 Internal seal faulty	Replace worn or damaged seals.

Specifications

Log Capacity	Maximum diameter 30cm / maximum length 54cm
Oil Capacity	Approximately 5 litres.
Oil Type	10WT AW32 / ASLE H-150 / ISO 32
Electrical Requirements	240V AC / 50Hz



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death, consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognized training course before being given access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third-party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example), there is always a small chance of technical issues that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error after considering the points above, simply contact the retailer directly for details of their returns policy, if required.



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