Bäumr-AG®

380RX

PETROL RIDE ON MOWER



User Manual

[Revision 5.0]

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.

The product is NOT supplied with engine oil, although traces of oil from the manufacturing process may be present. It is essential to add adequate engine oil of the correct type to the engine before use. Failure to add engine oil will void the product warranty.

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.

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.

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.

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.

- **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.

General Work Area Safety

- Work areas should be clean and well it.
- 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.

General Personal Safety

- 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.

General Fuel Safety

- 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.

General Carbon-Monoxide Safety

- 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.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- 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.

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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.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- 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.

Child Choking Hazard!

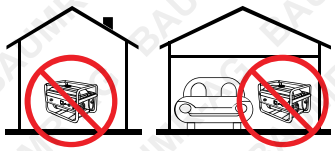


- **WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.**
- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

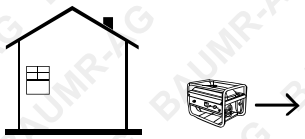
HAZARDOUS COMPONENTS!

⚠ DANGER ⚠

Using an engine or wood/charcoal/gas fuelled appliance indoors CAN KILL YOU IN MINUTES. Engine exhaust and wood/charcoal/gas fumes contain carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a building, home, garage, boat, caravan or tent EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors, and vents.

Avoid other hazards - READ MANUAL BEFORE USE.

GENERAL:
- Do not operate in a hazardous location. Such areas include where there is a risk of explosion of petrol fumes, leaking gas or explosive dusts.
- Do not operate in a confined area where exhaust gases or wood/charcoal/gas fumes could reach dangerous concentrations.

PRODUCTS FEATURING AN ENGINE
- Follow all warnings in the section titled "GENERAL".
- Explosion hazard - never smoke while refuelling.
- Take care not to spill fuel. When refuelling the engine, ensure that the engine has been allowed to cool. Prevent spilling of fuel as this may also ignite with a hot engine.
- Never refuel while engine is running.

GENERATORS
- Follow all warnings in the sections titled "GENERAL" and "PRODUCTS FEATURING AN ENGINE".
- The output of this generator is potentially lethal. The generator should not be connected to a fixed electrical installation except by an appropriately licensed person.
- Not weatherproof – protect your machine. This machine is not weatherproof and should not be exposed to direct sunlight, high ambient temperature, damp conditions, wet conditions or high humidity conditions.

- **BE AWARE THAT THE EQUIPMENT MAY INCLUDE HAZARDOUS COMPONENTS, SUCH AS BLADES, HOT SURFACES AND MOVING PARTS.**
- **MOVING BLADES CAN CAUSE SERIOUS INJURY AND EVEN DEATH IF USED IMPROPERLY OR WITHOUT SUFFICIENT PPE.**
- **DO NOT USE THIS EQUIPMENT ON UNEVEN SURFACES AND ALWAYS MAINTAIN GOOD BALANCE WHEN USING THIS EQUIPMENT. FAILURE TO DO SO MAY CAUSE SERIOUS INJURY.**
- **MAINTAIN A SECURE GRIP OF THE TRIGGER ASSEMBLY AT ALL TIMES.**

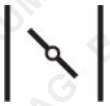
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Intended Use

- This product is intended solely for cutting grass in private gardens and on private garden slopes with a maximum incline of 10°. It is not designed for use in public parks, sports grounds, agricultural areas, or forestry applications.
- To perform other tasks, attach only optional accessories approved by the manufacturer. Contact an authorised service agent for more information.
- Any other use is considered improper and will void the warranty. The manufacturer accepts no liability for damage or injury resulting from misuse by the operator or third parties.
- Refer to local regulations regarding the operation of lawn mowers.

Important Safety Symbols

WARNING: THIS PRODUCT CAN BE HAZARDOUS AND MAY CAUSE SERIOUS INJURY OR DEATH TO THE OPERATOR OR BYSTANDERS. ALWAYS OPERATE THE MOWER WITH CARE AND FOLLOW ALL SAFETY INSTRUCTIONS. READ THIS OPERATOR'S MANUAL THOROUGHLY AND ENSURE YOU UNDERSTAND ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.


Choke


Fast


Slow


Engage the drive system


Disengage the drive system


Engine off

Engine on


Engine start



Parking brake


Cutting height


Reverse operation system (ROS)


Reverse


Forward


Work lights on/off


Fuel



Max. ethanol 10%


Motor oil


Ear protection is recommended


Wear eye protection


The blades are disengaged


The blades are engaged


Keep body parts away from rotating parts


Keep body parts away from rotating blades

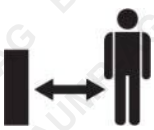

Look out for ejecting objects and ricochets



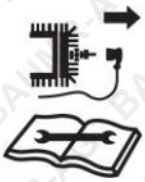
Do not cut grass across a slope. Do not cut grass on ground that slopes more than 10°


Cutting of fingers or hand


Never carry passengers on the product or equipment


Keep bystanders away


Do not step here


Disconnect the spark plug cap before you do maintenance on the product



Noise emission to the environment label



Apply and release the parking brake

Product Damage

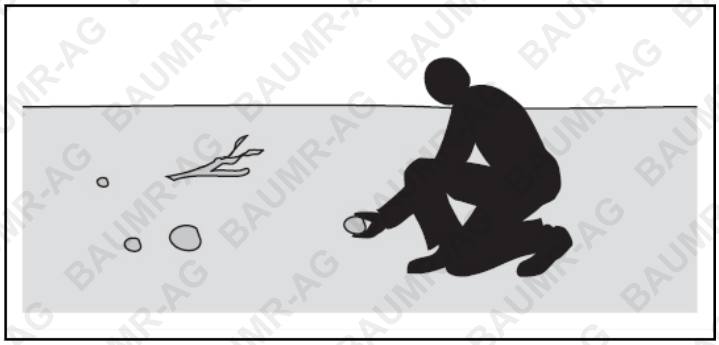
The manufacturer is not responsible for damage to the product if:

- It is incorrectly repaired.
- It is repaired using parts not supplied or approved by the manufacturer.
- It is fitted with accessories not supplied or approved by the manufacturer.
- Repairs are not carried out by an authorised service centre or approved technician.
- ⚠ **WARNING: TAMPERING WITH THE ENGINE WILL VOID THE WARRANTY.**

General Safety Instructions

- ⚠ **WARNING: THIS PRODUCT CAN CAUSE SEVERE INJURY OR DEATH. IT CAN CUT OFF HANDS AND FEET AND THROW OBJECTS IF SAFETY INSTRUCTIONS ARE NOT FOLLOWED.**
- ⚠ **WARNING: DO NOT USE THE PRODUCT WITH DAMAGED CUTTING EQUIPMENT. DAMAGED BLADES CAN EJECT OBJECTS AND CAUSE SERIOUS INJURY OR DEATH. REPLACE DAMAGED BLADES IMMEDIATELY.**
- ⚠ **WARNING: THIS PRODUCT GENERATES AN ELECTROMAGNETIC FIELD DURING OPERATION, WHICH MAY INTERFERE WITH ACTIVE OR PASSIVE MEDICAL IMPLANTS. TO REDUCE THE RISK OF SERIOUS OR FATAL INJURY, INDIVIDUALS WITH MEDICAL IMPLANTS SHOULD CONSULT THEIR PHYSICIAN AND THE IMPLANT MANUFACTURER BEFORE OPERATING THIS PRODUCT.**
- ⚠ **WARNING: READ AND FOLLOW ALL WARNING INSTRUCTIONS BEFORE OPERATING THE PRODUCT.**
- Always be cautious and use common sense. Avoid any operation that feels unsafe or beyond your ability.
- If unsure about proper operation after reading the manual, seek advice from a qualified expert.
- Read and understand both the operator's manual and all on-product instructions before use.
- Learn to operate the mower and its controls safely, including how to stop it quickly.
- Familiarise yourself with all safety decals and warnings on the product.
- Keep the mower clean to ensure all signs and labels remain visible.
- Wipe off any spilled fuel or oil before operating or storing the mower.
- Remember, the operator is responsible for any accidents involving others or their property.
- Never place hands or feet near rotating parts or underneath the mower.
- Keep clear of the discharge opening at all times.
- Always stop the blades when operating on gravel surfaces.
- Do not operate the cutting deck if the grass catcher, discharge chute, or other safety devices are missing or faulty.
- Always disengage the blades when not mowing.
- Prevent grass or debris from contacting hot exhaust components or engine parts.
- Do not use the mower to mulch leaves or debris that may cause blockages or fire risk.
- Never carry passengers. The ride-on mower is designed for use by one operator only.
- Never leave the product unattended with the engine running. Always stop the blades, apply the parking brake, switch off the engine, and remove the ignition key before leaving the mower unsupervised.
- Operate the product only in daylight or well-lit conditions. Keep a safe distance from holes, slopes, and ground irregularities. Stay alert for potential hazards.
- Do not operate the mower in adverse weather conditions such as fog, rain, wet or damp surfaces, strong winds, extreme cold, or when lightning is a risk.
- Identify and mark fixed obstacles like rocks to avoid collisions.
- Clear the area of loose objects such as stones, toys, and wires that could be caught in the blades and ejected.



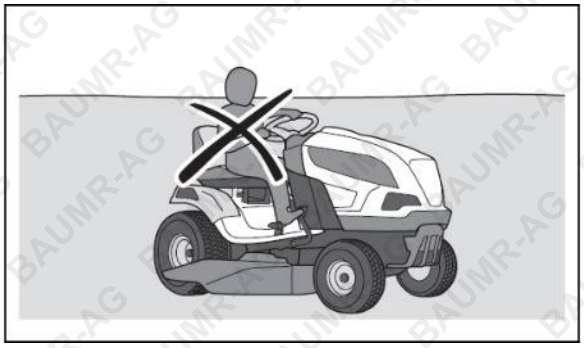


- Do not allow children or unauthorised individuals to operate or service the mower. Comply with local laws regarding the minimum age for operation.
- Ensure no one is nearby when starting the engine, engaging the drive, or moving the mower.

- Stay alert to traffic when operating near or crossing roads.
- Never use the mower if you are tired or under the influence of alcohol, drugs, medication, or any substances that impair vision, alertness, coordination, or judgement.
- Exercise caution when loading or unloading the mower from a trailer or truck.
- Always park the mower on level ground and turn off the engine.
- Stop the engine and ensure all moving parts have come to a complete stop before performing cleaning or maintenance.
- Stop the engine and wait for all parts to stop before removing the grass catcher or clearing blockages from the discharge chute.
- Allow the mower to cool down before placing it in storage.

Safety Instructions Regarding Children

- ⚠ **WARNING: READ THE FOLLOWING WARNINGS CAREFULLY BEFORE USING THE PRODUCT.**
- Serious accidents may occur if children are present and not properly supervised. Children are often drawn to ride-on mowers and mowing activity. They may unexpectedly enter the work area, even after being seen elsewhere.
- Keep children well away from the mowing area. Ensure a responsible adult is supervising them at all times.
- Always remain alert and stop the mower immediately if a child enters the work area. Be especially cautious near corners, shrubs, trees, or other objects that obstruct your view.
- Always check behind and beneath the mower before and while reversing, to ensure no small children are nearby.
- Never allow children to ride on the mower. They can fall off and suffer serious injuries or interfere with safe operation.
- Never allow children to operate the mower under any circumstances.

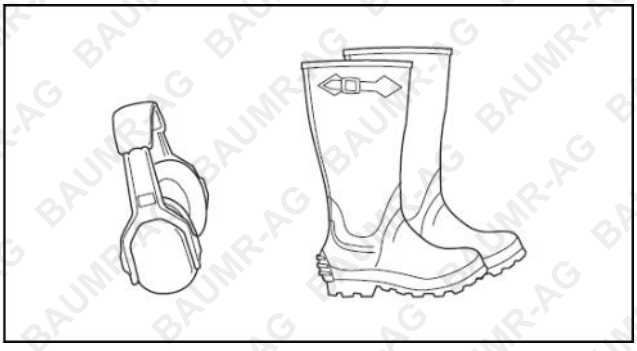


Safety Instructions for Operation

- ⚠ **WARNING: DO NOT TOUCH THE ENGINE OR EXHAUST SYSTEM DURING OR IMMEDIATELY AFTER OPERATION. THESE COMPONENTS BECOME EXTREMELY HOT AND MAY CAUSE BURN INJURIES, FIRE, OR PROPERTY DAMAGE. KEEP THE MOWER AWAY FROM BUSHES AND OTHER FLAMMABLE MATERIALS WHILE OPERATING.**
- ⚠ **WARNING: READ AND FOLLOW THE WARNINGS BELOW BEFORE USING THE PRODUCT.**
- Always look down and behind before and while reversing. Watch out for both large and small obstacles.
- Reduce speed when turning corners.
- Disengage the blades when crossing non-mowing areas.
- ⚠ **CAUTION: READ AND FOLLOW THE CAUTIONARY NOTES BELOW BEFORE OPERATING THE PRODUCT.**
- Before use, ensure the engine's cold air intake is free from grass, dirt, or debris. A blocked intake may lead to engine damage.
- Carefully manoeuvre around stones and other large objects to avoid blade contact.
- Do not operate the mower over objects. If you run over or strike an object, stop the machine and inspect the mower and cutting deck. Make any necessary repairs before restarting.

Personal Protective Equipment

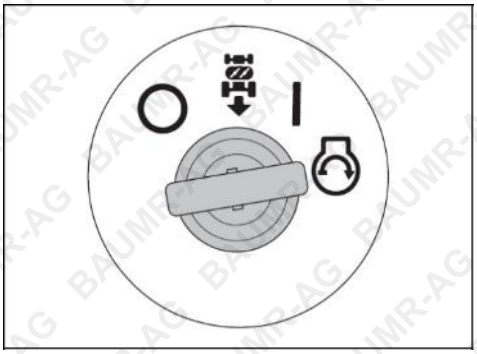
- ⚠ **WARNING: READ THE FOLLOWING SAFETY INSTRUCTIONS BEFORE USING THE PRODUCT.**
- Always wear approved personal protective equipment (PPE) when operating the mower. While PPE cannot eliminate the risk of injury, it significantly reduces the severity if an accident occurs. Your dealer can assist in selecting suitable equipment.
- Wear approved hearing protection. Prolonged exposure to high noise levels may cause permanent hearing damage.
- Use heavy-duty, slip-resistant boots or shoes—preferably with steel toes. Do not wear open footwear or operate the mower barefoot.
- Wear protective gloves when necessary, especially when handling, inspecting, or cleaning the cutting equipment.
- Avoid loose-fitting clothing, jewellery, or accessories that could become entangled in moving parts.
- Keep a first aid kit and a fire extinguisher nearby at all times.



Safety Devices on the Product

⚠ WARNING: READ THE FOLLOWING SAFETY INSTRUCTIONS CAREFULLY BEFORE USING THE PRODUCT. DO NOT OPERATE THE MOWER IF ANY SAFETY DEVICE IS DAMAGED OR NOT FUNCTIONING CORRECTLY. REGULARLY INSPECT ALL SAFETY DEVICES. CONTACT YOUR AUTHORISED SERVICE AGENT IF ANY ARE DAMAGED. DO NOT MODIFY OR REMOVE SAFETY FEATURES. NEVER USE THE MOWER IF PROTECTIVE PLATES, COVERS, SAFETY SWITCHES, OR OTHER SAFETY DEVICES ARE MISSING OR DAMAGED.

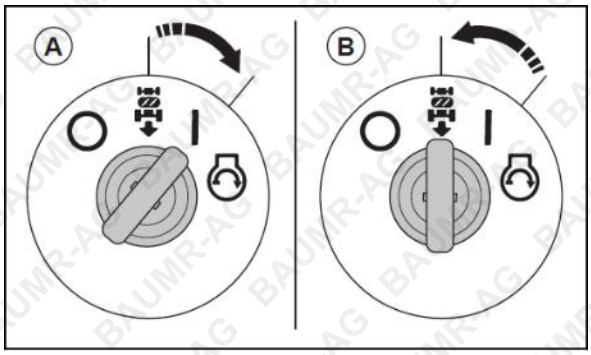
CHECKING THE IGNITION LOCK



- Start and stop the engine to check ignition lock function.
- Ensure the engine starts when the ignition key is turned to the start position.
- Ensure the engine stops immediately when the key is turned to the stop (O) position.

CHECKING THE REVERSE OPERATION SYSTEM (ROS)

- If the Reverse Operation System does not function correctly, contact an authorised service agent.
  - Start the mower.
  - Engage the cutting deck.
  - With the ignition key in the on (A) position, press the reverse pedal. The engine must stop.
  - Restart the mower and re-engage the cutting deck.
  - Turn the ignition key to the ROS on (B) position.
  - Press the reverse pedal. The engine must not stop.



OPERATION CONDITIONS

- The engine will only start if:
  - The parking brake is applied.
  - The blade drive (PTO) is disengaged.
  - Both forward and reverse pedals are in the neutral position.
- The engine must stop if:
  - The operator leaves the seat with the parking brake not applied.
  - The cutting deck is engaged and the operator lifts from the seat.
  - The cutting deck is engaged, the reverse pedal is pressed, and the ROS is disengaged.
- The blade drive must stop if:
  - The parking brake is applied and the operator lifts from the seat.
  - The PTO button is pushed in.
  - The grass catcher or another approved accessory is removed.
- Try starting the engine with one of the required conditions not met. Adjust the conditions and try again. Perform this check daily.

CHECKING THE FORWARD AND REVERSE PEDALS

- Start the mower.
- Ensure both pedals are free from obstructions and move smoothly.
- Slowly press the forward pedal—the mower should move forward.
- Release the forward pedal—the brake should engage automatically.
- Note: The mower has an automatic brake that activates when pedals are released.
- Repeat the same test for the reverse pedal.
- Ensure the mower does not move when both pedals are in the neutral position.

PARKING BRAKE

- **⚠ WARNING: IF THE PARKING BRAKE FAILS, THE MOWER MAY MOVE UNEXPECTEDLY, CAUSING INJURY OR DAMAGE. HAVE THE BRAKE CHECKED AND ADJUSTED REGULARLY.**
- Refer to Check the Parking Brake.

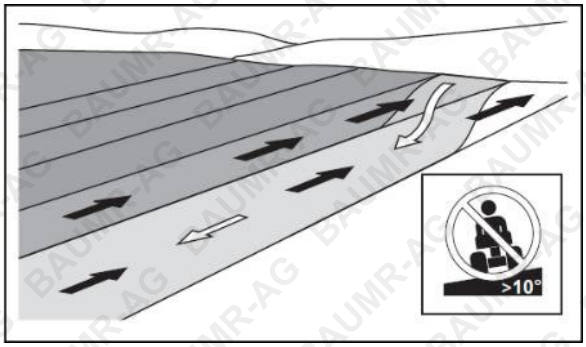
MUFFLER

- The muffler reduces noise and directs exhaust away from the operator.
- Do not operate the mower if the muffler is missing or damaged. This increases noise levels and fire risk.
- **⚠ WARNING: THE MUFFLER BECOMES EXTREMELY HOT DURING AND AFTER OPERATION—EVEN AT IDLE. AVOID CONTACT WITH FLAMMABLE MATERIALS OR FUMES TO PREVENT FIRE.**
- Check the Muffler: Inspect the muffler regularly to ensure it is securely mounted and not damaged.

PROTECTIVE COVERS

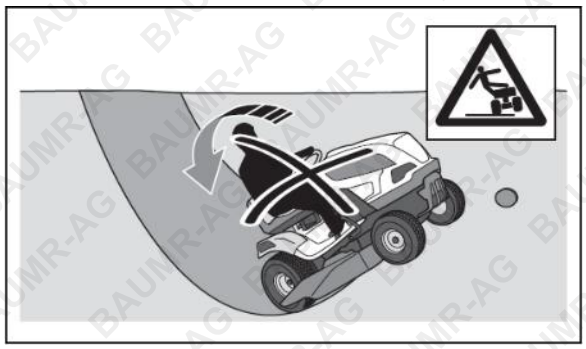
- Damaged or missing protective covers increase the risk of injury from moving parts or hot surfaces.
- Always inspect protective covers before use.
- Ensure they are securely attached and free from cracks or damage.
- Replace damaged covers immediately.

Cutting Grass on Slopes

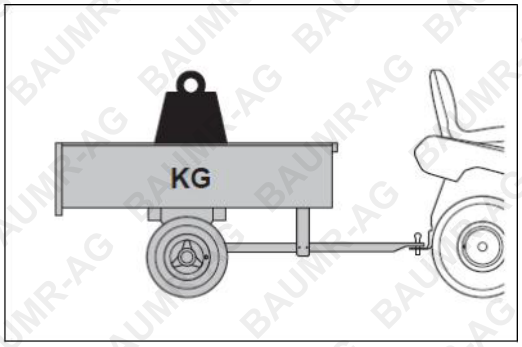


⚠ **WARNING: READ THE FOLLOWING WARNINGS BEFORE OPERATING THE MOWER ON SLOPES.**

- Mowing on slopes increases the risk of losing control or tipping over, which may result in serious injury or death. Always mow cautiously on slopes. If you cannot reverse up the slope or feel unsafe, do not attempt to mow it.
- Remove stones, branches, and other obstacles before mowing.
- Always mow up and down the slope, not side to side.
- Do not operate on ground with a slope greater than 10°.
- Avoid starting or stopping on a slope.
- Operate the mower smoothly and at a slow speed on slopes.
- Avoid sudden changes in speed or direction.
- Limit turning on slopes. If you must turn, do so slowly and gradually, especially when moving downhill.
- Be cautious of furrows, holes, and bumps—these can cause the mower to overturn, especially if hidden by long grass.
- Never mow near drop-offs, ditches, or embankments. A wheel slipping over the edge or a collapsing surface may cause the mower to overturn. If the mower falls into water, there is a risk of drowning.
- Do not mow wet grass. It can be slippery, causing the tyres to lose grip and the mower to skid.
- Never attempt to stabilise the mower with your foot while in operation.
- Use extreme caution if any accessory is attached that may affect the mower's balance or stability.
- Always follow the manufacturer's recommendations regarding the use of wheel weights or counterweights.



Tow Safety



- Use the designated tow bar to attach towing equipment.
- Do not tow any equipment that exceeds the maximum permitted tow weight.
- Ensure no other persons are near the mower while towing.
- Use caution when towing on slopes or uneven terrain.
- Always operate at low speed when towing equipment.

Fuel Safety

- ⚠ **WARNING: FUEL IS HIGHLY FLAMMABLE AND POSES A RISK OF FIRE, EXPLOSION, INJURY, AND PROPERTY DAMAGE. HANDLE WITH EXTREME CARE.**
- ⚠ **WARNING: READ AND FOLLOW THE SAFETY INSTRUCTIONS BELOW BEFORE USING THE PRODUCT.**
- Do not fill the fuel tank indoors.
- Petrol and its fumes are toxic and highly flammable. Take great care when handling petrol to avoid injury or fire.
- Do not remove the fuel cap or refuel while the engine is running.
- Allow the engine to cool before refuelling.
- Never smoke while refuelling.
- Keep away from sparks, open flames, and other ignition sources while handling fuel.
- Do not start the engine if there are leaks in the fuel system. Have any leaks repaired before use.
- Do not overfill the tank. Heat from the engine or sun can cause fuel expansion and overflow.
- Clean up any fuel spills immediately and allow the area to dry completely before starting the engine. If fuel is spilled on your clothing, change immediately.
- Store fuel only in containers approved for petrol storage.
- Store both the mower and fuel safely to prevent fuel leaks or fume accumulation.
- When draining fuel, do so outdoors into an approved container, away from any open flames or ignition sources.

Transport Safety

- Use an approved vehicle or trailer for transporting the mower.
- The product is heavy and may cause crush injuries. Use caution when loading or unloading it.
- National or local regulations may place restrictions on the transport of this product.
- The operator of the transport vehicle is responsible for securing the mower safely during transport.

Battery Safety

- ⚠ **WARNING: A DAMAGED BATTERY MAY EXPLODE AND CAUSE INJURY. IF THE BATTERY IS DEFORMED OR SHOWS SIGNS OF DAMAGE, CONTACT AN AUTHORISED SERVICE AGENT.**
- ⚠ **WARNING: READ THE FOLLOWING BATTERY SAFETY INSTRUCTIONS BEFORE USING THE PRODUCT.**
- Wear protective glasses when working near the battery.
- Do not wear watches, jewellery, or any metal objects near the battery terminals.
- Keep the battery out of reach of children.
- Charge the battery in a well-ventilated area.
- Maintain a minimum clearance of 1 metre from flammable materials when charging the battery.
- Dispose of used batteries in accordance with local regulations.
- Batteries may emit explosive gases. Do not smoke or expose the battery to open flames or sparks.

Safety Instructions for Maintenance

⚠ **WARNING: THE PRODUCT IS HEAVY AND MAY CAUSE INJURY OR PROPERTY DAMAGE IF NOT HANDLED CORRECTLY. NEVER PERFORM MAINTENANCE ON THE ENGINE OR CUTTING DECK UNLESS ALL OF THE FOLLOWING CONDITIONS ARE MET:**

- The engine is switched off.
- The mower is parked on a level surface.
- The parking brake is applied.
- The ignition key is removed.
- The cutting deck is disengaged.
- The ignition cable is disconnected from the spark plug.

⚠ **WARNING: ENGINE EXHAUST FUMES CONTAIN CARBON MONOXIDE—AN ODOURLESS, POISONOUS, AND POTENTIALLY FATAL GAS. DO NOT OPERATE THE MOWER IN ENCLOSED OR POORLY VENTILATED SPACES.**

⚠ **WARNING: READ AND FOLLOW ALL SAFETY INSTRUCTIONS BELOW BEFORE PERFORMING MAINTENANCE:**

- For optimal performance and safety, carry out maintenance as specified in the maintenance schedule.
- Electrical shock may cause injury—do not touch ignition cables while the engine is running, and never test the ignition system with your fingers.
- Do not start the engine if any protective covers are removed. There is a high risk of injury from moving or hot parts.
- Allow the mower to cool down before performing maintenance near the engine.
- The blades are sharp and can cause serious cuts. Wrap them in protective material or wear gloves when handling or servicing them.
- Never park the mower near the edge of a ditch or slope to access the cutting deck.

⚠ **CAUTION: READ AND OBSERVE THE FOLLOWING CAUTIONARY ADVICE:**

- Do not crank the engine if the spark plug or ignition cable is removed.
- Ensure all nuts, bolts, and fasteners are properly tightened, and confirm the equipment is in safe working condition.
- Do not alter the governor settings. Running the engine at excessive speed may damage components.
- This product is only approved for use with equipment supplied or recommended by the manufacturer.

DANGER

Running combustion engines in confined areas CAN KILL IN MINUTES. Engine exhaust fumes contain carbon-monoxide – a deadly gas that you cannot smell or see.



NEVER run a combustion engine in confined areas EVEN IF windows and doors are open. ONLY run petrol engines OUTDOORS and away from doors, windows, and vents.

Do not operate the equipment in hazardous locations, such as where there may be a risk of fire or explosions from flammable liquids, gases or dust.

Do not operate the equipment in confined areas where exhaust gases, smoke or fumes could reach dangerous concentrations.

Do not refuel a combustion engine while it is running on or hot.

Never smoke while refuelling combustion engines or handling flammable substances.

For generators, the electrical output is potentially lethal and must only be connected to a fixed electrical installation by an appropriately licensed person.

Be aware that the equipment may include hazardous components, such as blades, hot surfaces and moving parts.

Handle any flammable substance with extreme caution.

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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.



Flammable Material Hazard
Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.



Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.



Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.



Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.



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.



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.



Explosive Material Hazard
Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.



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.



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.



Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.



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.



Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.



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.



Running Hazard
Do not run on or near the product as doing so may present a fall hazard.



Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.



Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.



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.



Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.



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.



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.

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 **Carbon-Monoxide Hazard** Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 **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.	 **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.	 **"Slam Dunk" Warning** Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 **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.	 **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.	 **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.	 **"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.
 **Winch Operator Position Hazard** Do NOT stand between winch and load. Do NOT use winch to move people.	 **Winch Lift Hazard** Do NOT LIFT load vertically. Use machine to PULL only.	 **Cable Hazard** Ensure that load bearing cable is not kinked or knotted.	 **Winch Cable Hazard** Ensure that there is a minimum number of cable coils on winching mechanism.
 **Winch Hook Hazard** Carry hook to load – do NOT throw or run.	 **Flash / Blinding Hazard** Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 **Laser Hazard** Laser may be in use – do NOT look directly at laser or allow others to.	 **Choking Hazard** Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

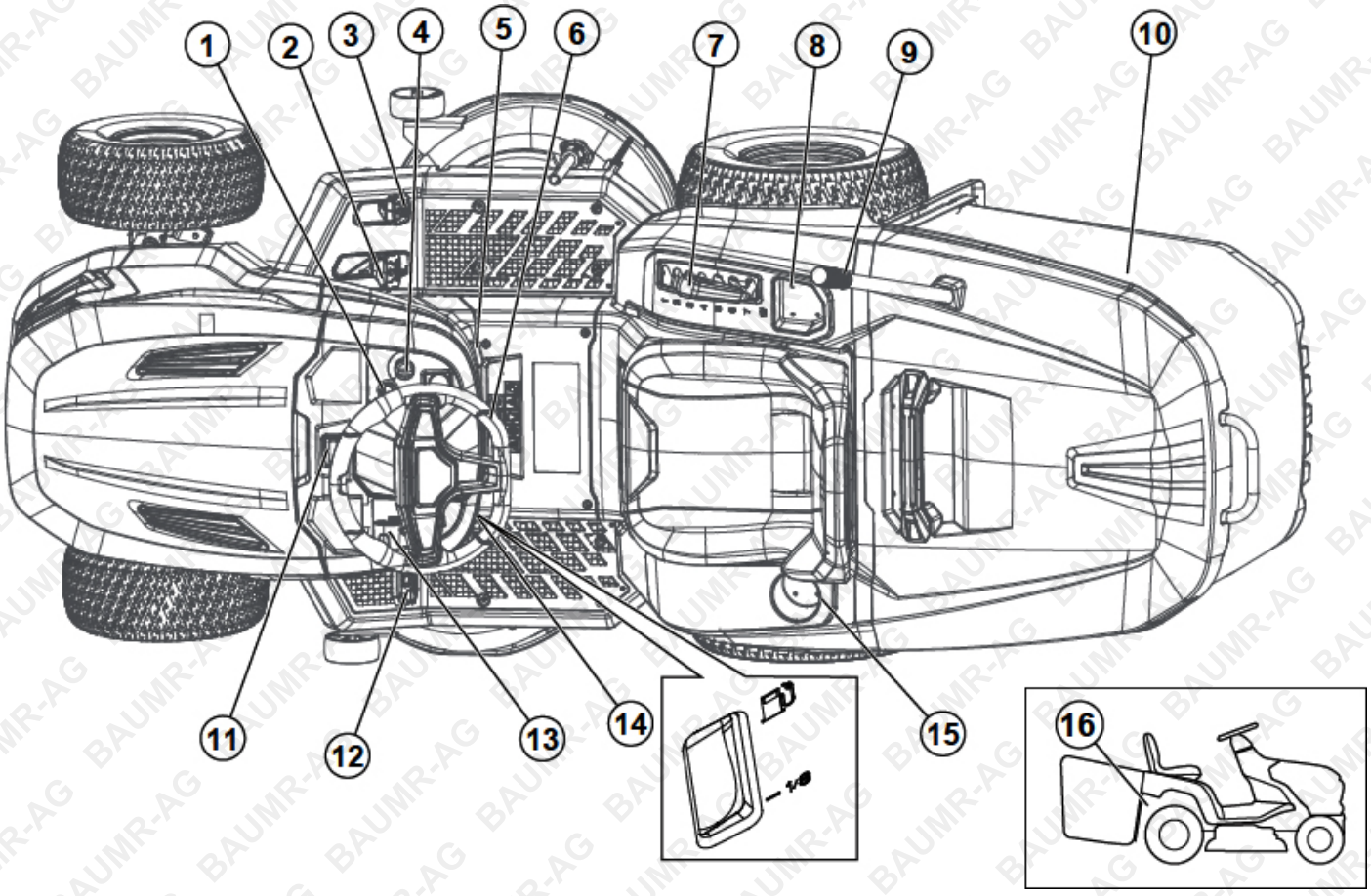
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Product Overview



No.	Part	Description
1	Light Switch	Press once to turn on the headlights after the machine is powered on; press again to turn them off.
2	Forward Pedal	Controls the forward movement and speed of the ride-on mower.
3	Reverse Pedal	Controls the reverse movement and speed of the ride-on mower.
4	Ignition Lock	Insert the key to start or stop the mower.
5	Parking Brake Lock	Engage the parking brake.
6	Steering Wheel	Controls the mower's direction.
7	Cutting Height Lever	Adjusts the mowing height.
8	Miscellaneous Slot	Storage area for miscellaneous items.
9	Grass Catcher Handle	Push forward to detach the grass catcher from underneath for quick emptying.
10	Grass Catcher	Collects the cut grass.
11	Hour Meter	Displays the operating hours of the mower.
12	Parking Brake Pedal	Slows down or stops the mower.
13	Throttle Control	Adjusts the air damper and engine speed.

No.	Part	Description
14	Fuel Observation Window	Shows the fuel level in the tank.
15	Water Cup Holder	Holds a water bottle or similar items.
16	Lever to Engage or Disengage Drive	Engages or disengages the drive system.

Operator Presence Control (OPC)

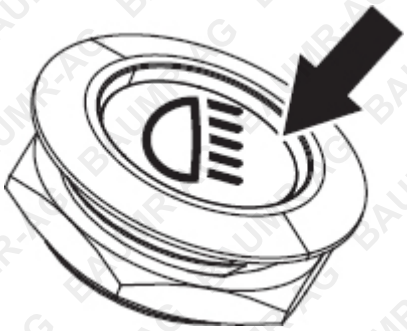
The OPC engages when the operator leaves the seat. It disengages the blade drive and, if the parking brake is not applied, stops the engine.

Grass Catcher Presence Control

The mower is equipped with a grass catcher presence control, which activates when a grass catcher or compatible accessory is installed. The blades will stop if the grass catcher or accessory is removed.

Work Light

The mower is fitted with a work light. Press the power switch to turn the light on or off.



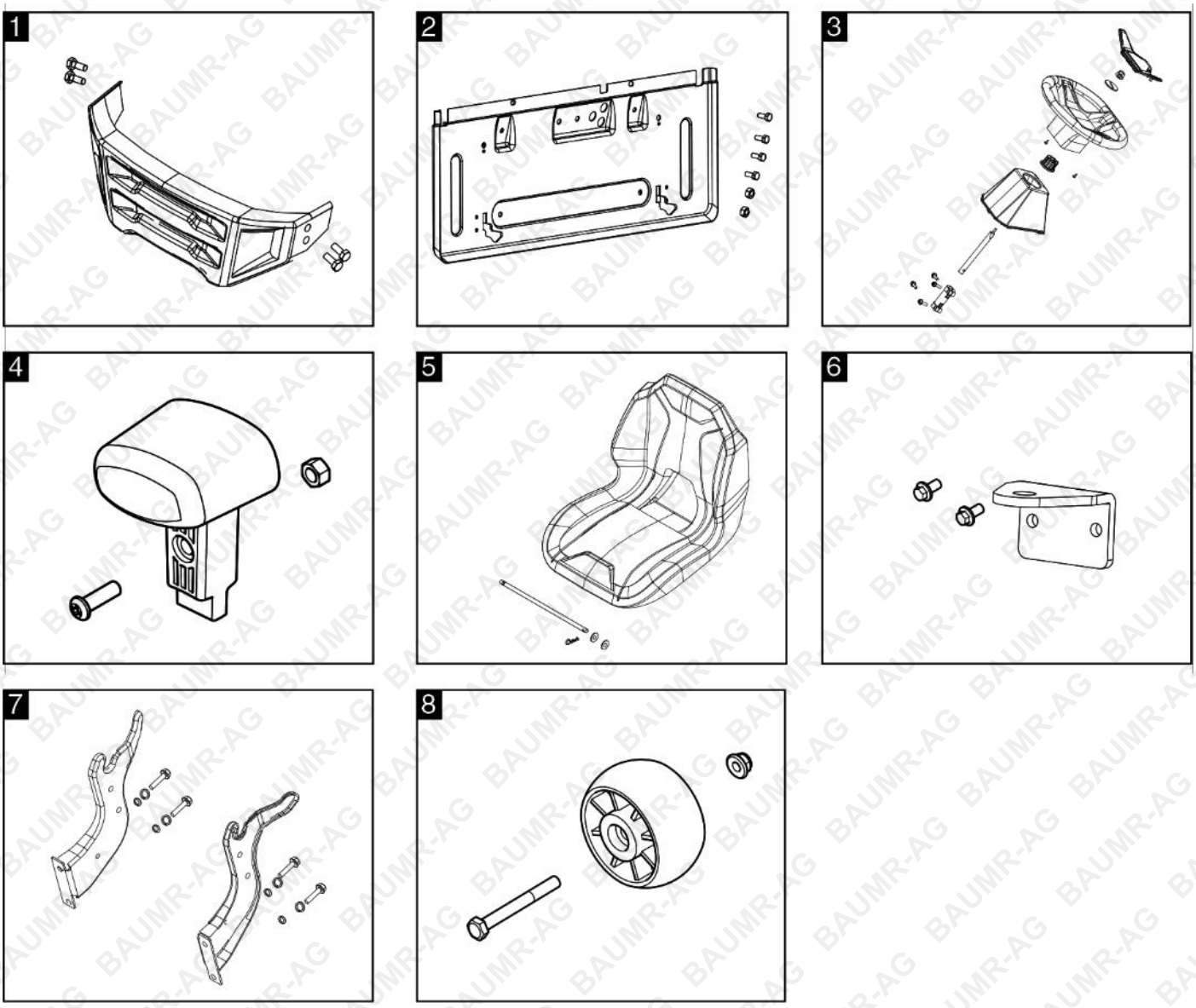
Spare parts available for purchase, scan QR code below:

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Assembly

⚠ **WARNING: Read and fully understand the Safety section of this manual before assembling the product.**

Assembly Overview

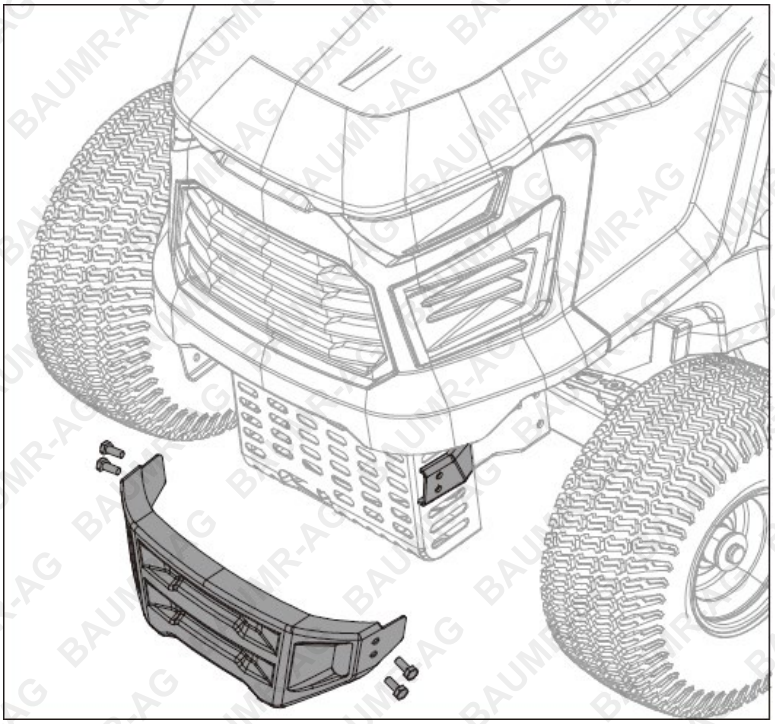


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Install the Bumper

Refer to the Assembly Overview for the correct fasteners required for this task.

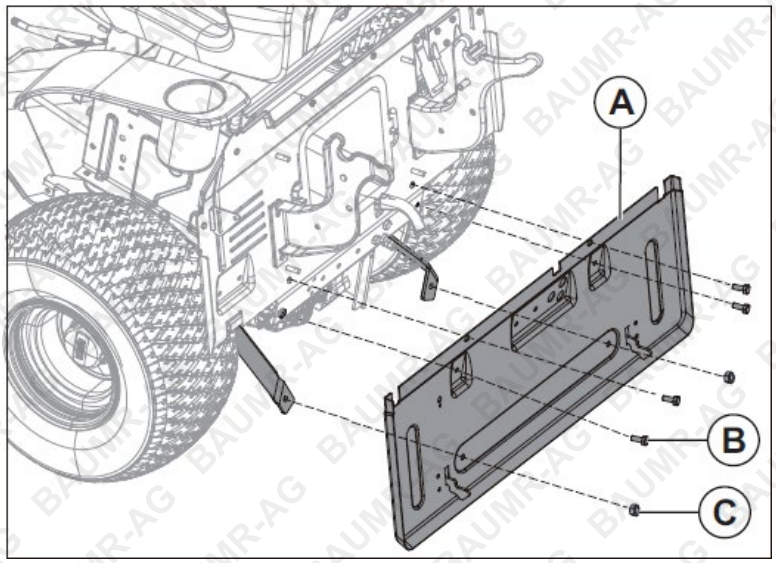
1. Attach the bumper to the bumper bracket using four M8 bolts and tighten securely.



Install the Grass Catcher Cover Plate

Refer to the Assembly Overview for the correct fasteners required for this task.

1. Install the grass catcher cover plate (A) onto the frame using four M8 bolts (B) and two nuts (C). Tighten securely.

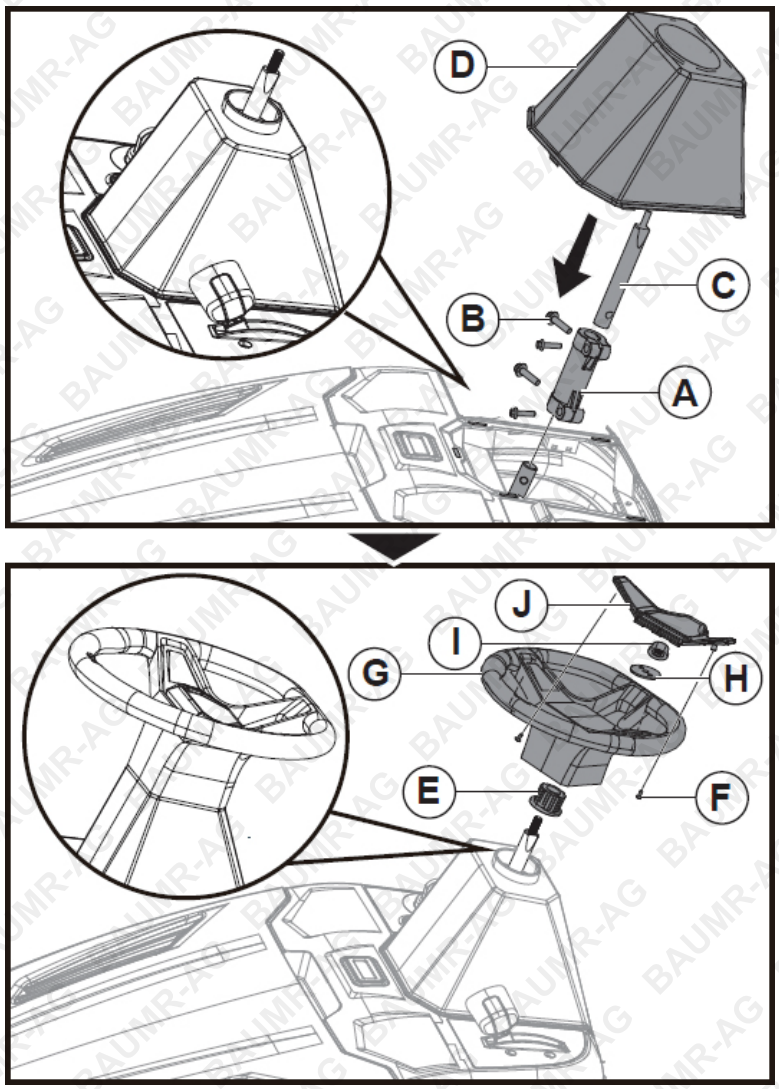


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Install the Steering Wheel

Refer to the Assembly Overview for the correct fasteners required for this task.

1. Insert the fixed sleeve (A).
2. Insert the direction extension rod (C) into the centre of the fixed sleeve (A), then secure both using four M8 bolts (B).
3. Snap the cover (D) onto the machine.
4. Install the steering shaft limit (E), steering wheel (G), and washer (H) onto the direction extension rod (C) in sequence. Secure with an M12 nut (I), tightened to 24 Nm.
5. Use two screws (F) to fasten the steering wheel trim cover (J) to the steering wheel.

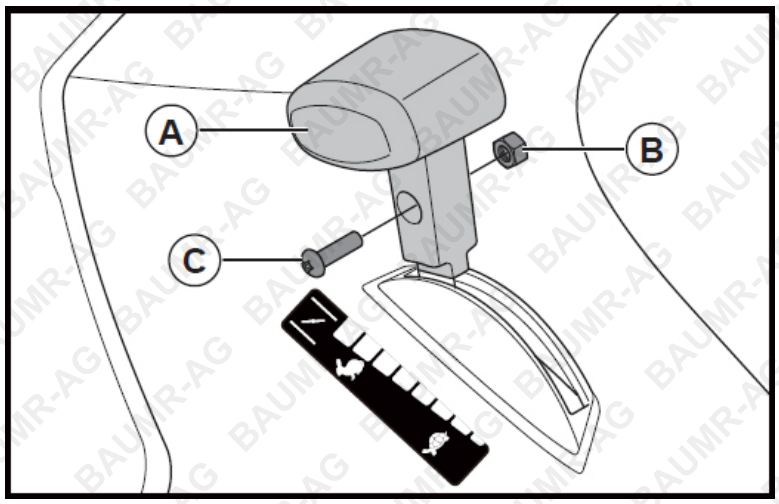


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Install the Knob on the Throttle Control

Refer to the Assembly Overview for the correct fasteners required for this task.

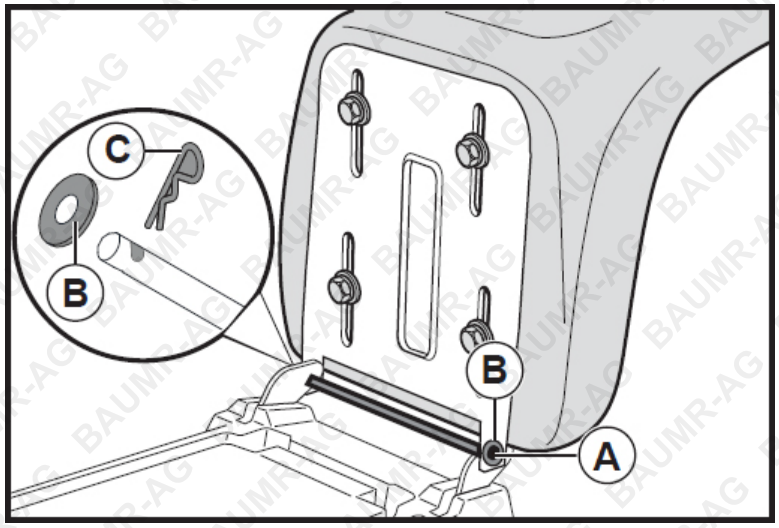
1. Place the knob (A) onto the throttle control lever.
2. Install the nut (B) and screw (C) to secure the knob.



Install the Seat

Refer to the Assembly Overview for the correct fasteners required for this task.

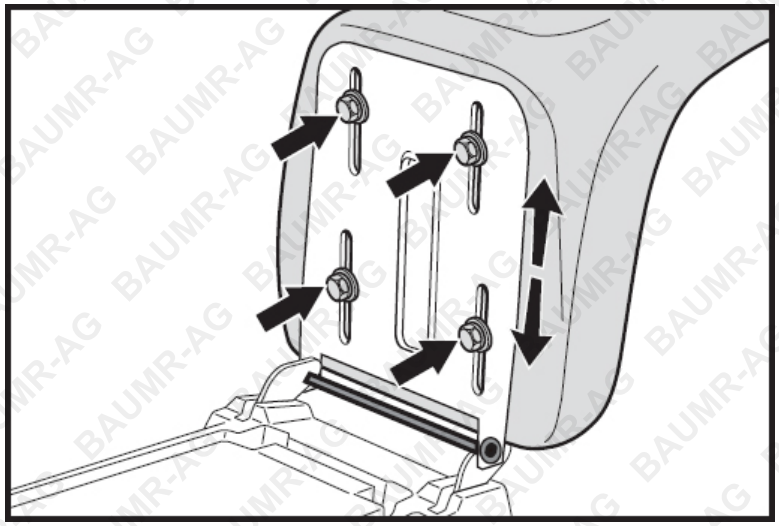
1. Insert a washer (B) onto the end of the shaft (A). Then insert the shaft through the seat assembly and into the seat mounting hole.
2. Place another washer (B) onto the shaft (A), then insert a cotter pin (C) through the hole in the shaft to secure it.



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Adjust the Seat

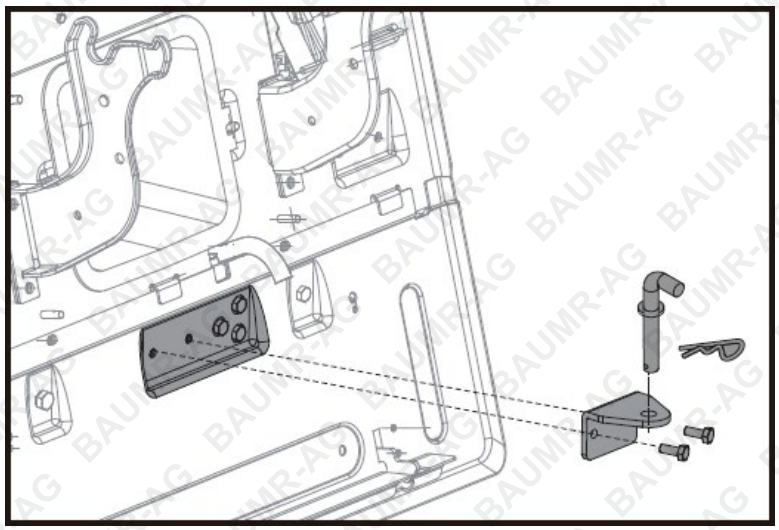
1. Fold the seat forward.
2. Loosen the four fixing bolts and slide the seat along the slots.
3. Adjust the seat until you can press the pedals down fully and comfortably.
4. Tighten the bolts securely.



Install the Tow Bar

Refer to the Assembly Overview for the correct fasteners required for this task.

1. Attach the tow bar using two screws.
2. Insert the trailer tongue into the trailer hitch, then secure it with a cotter pin.

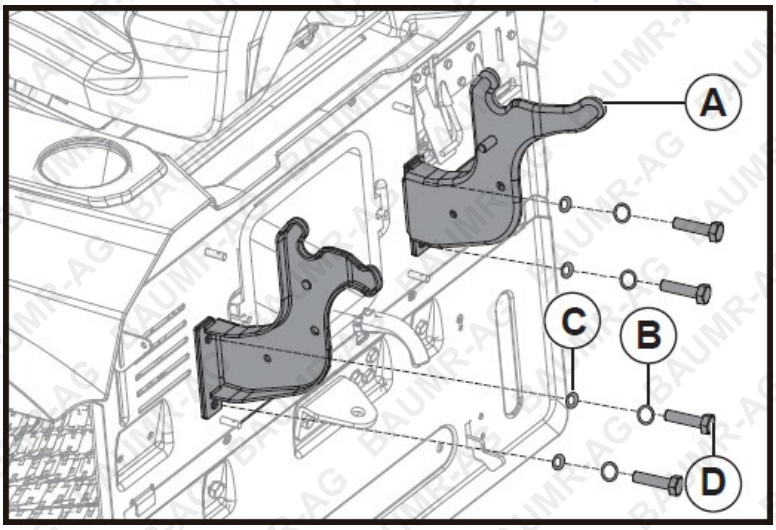


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Install the Brackets for the Grass Catcher

Refer to the Assembly Overview for the correct fasteners required for this task.

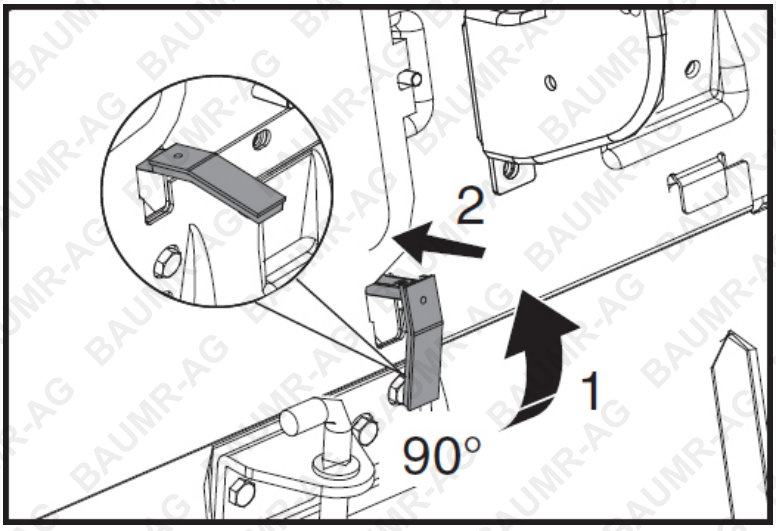
1. Use four M8 bolts (D), four spring washers (B), and four flat washers (C) to secure the grass catcher bracket (A) to the vehicle frame.



Adjust the Grass Collection Full Indicator Switch

1. Rotate the switch upwards by 90°, then move it forward to the bottom.
2. The grass collection switch has five positions. Users can adjust it as needed based on usage.

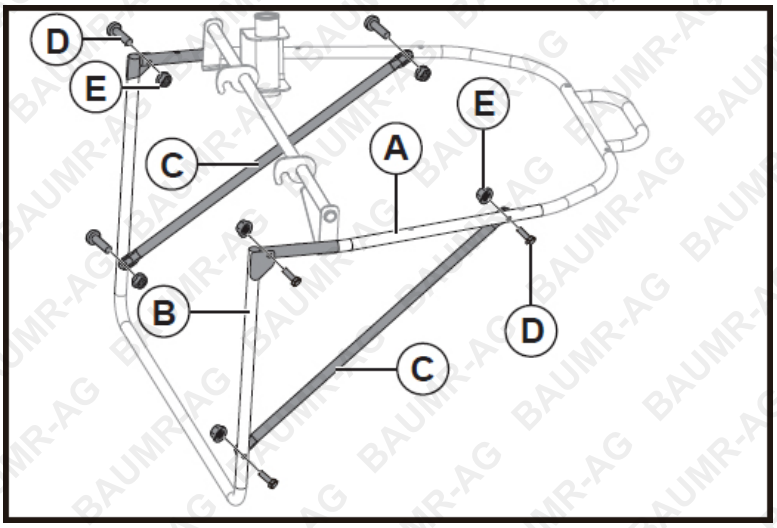
Tip: Pulling the switch outwards makes it easier to trigger.



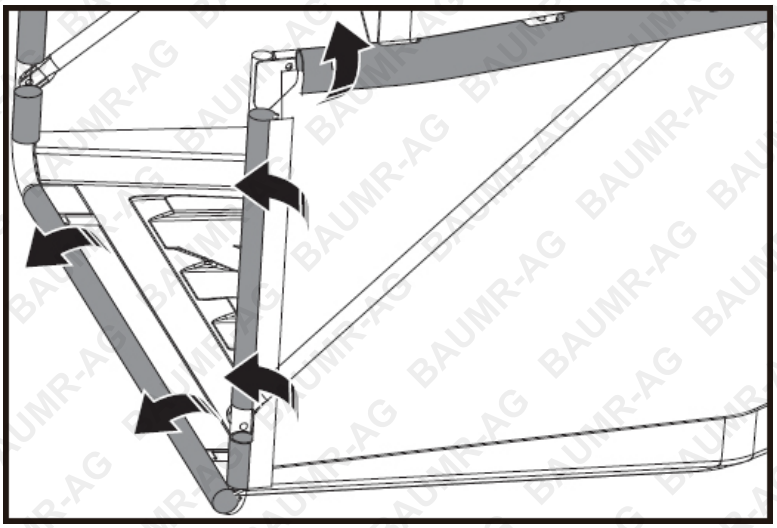
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Assemble the Grass Catcher

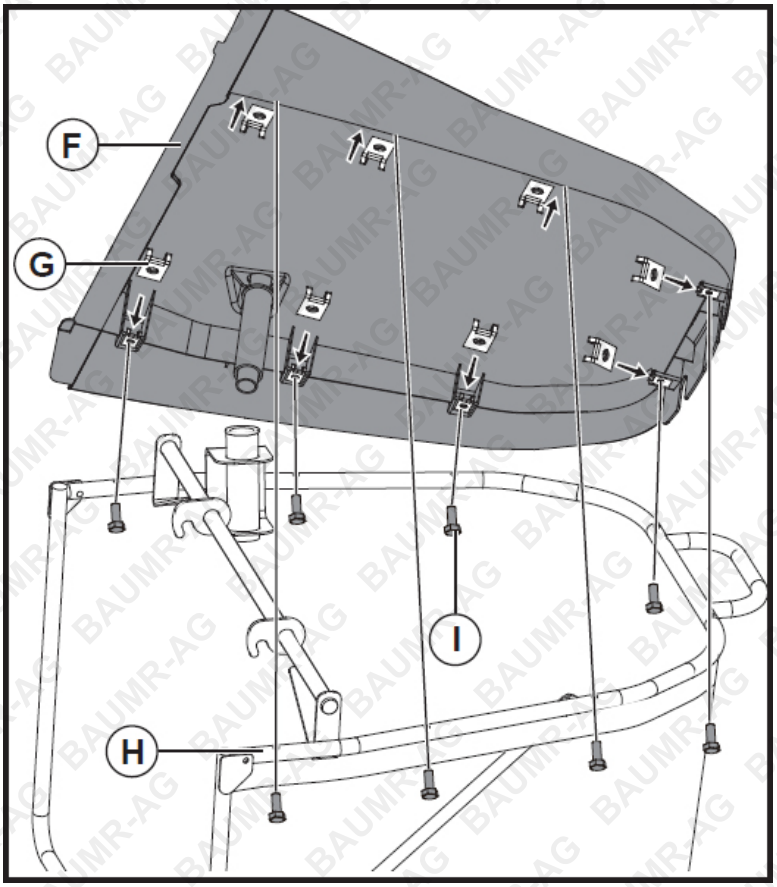
1. Attach the front frame (B) to the top frame (A), securing each side with a bolt (D) and nut (E).
2. Install the side support rod (C) onto both the front frame (B) and top frame (A), securing each side with two bolts (D) and nuts (E).



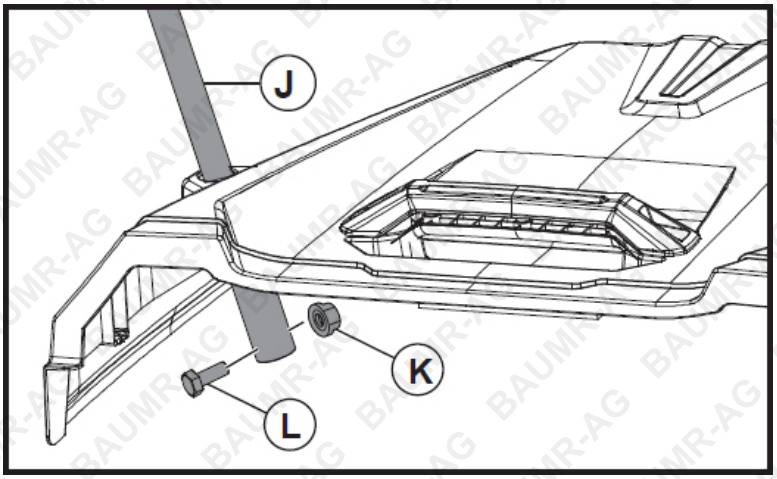
3. Attach the rubber tube elements to the front frame.



4. Insert the bolt clip (G) into the grass box lid (F), then secure the lid to the grass box frame (H) using eight bolts (I).



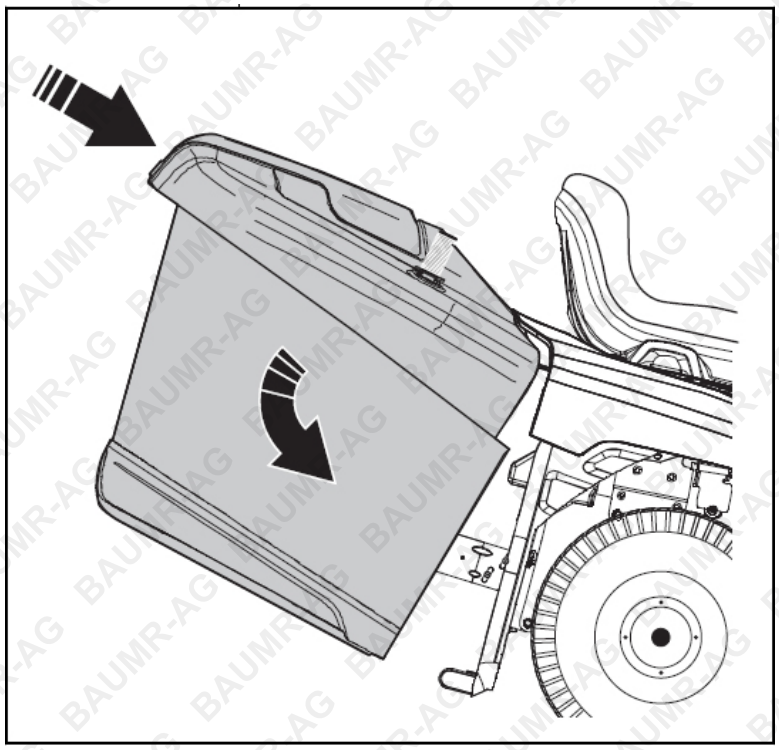
5. Fit the screw (L) and nut (K) into the tube of the grass catcher handle (J).



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Install and Remove the Grass Catcher

1. Tilt the grass catcher and place it onto the two mounting brackets.

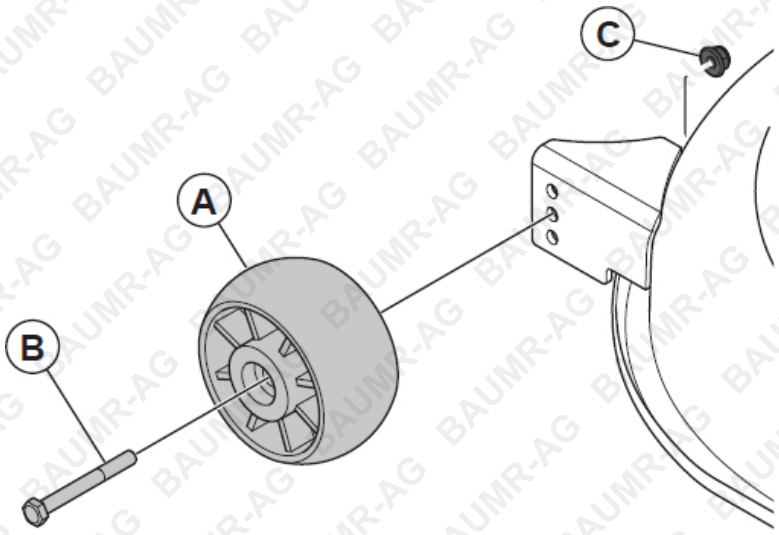


2. Release the grass catcher and allow it to move into position. Ensure the latches at the bottom lock it securely in place.
3. To remove the grass catcher, pull the grass catcher handle until the latches release the bottom section. Then lift the catcher off the brackets.

Install the Anti-Scalp Wheels

Refer to the Assembly Overview for the correct fasteners required for this task.

1. Install the anti-scalp wheel (A) using the bolt (B) and nut (C) in one of the three adjustment holes, depending on your desired cutting height.



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Connect the Battery

⚠ WARNING: Risk of electric shock. Ensure the ignition switch is in the OFF position and the ignition key is removed before connecting the battery.

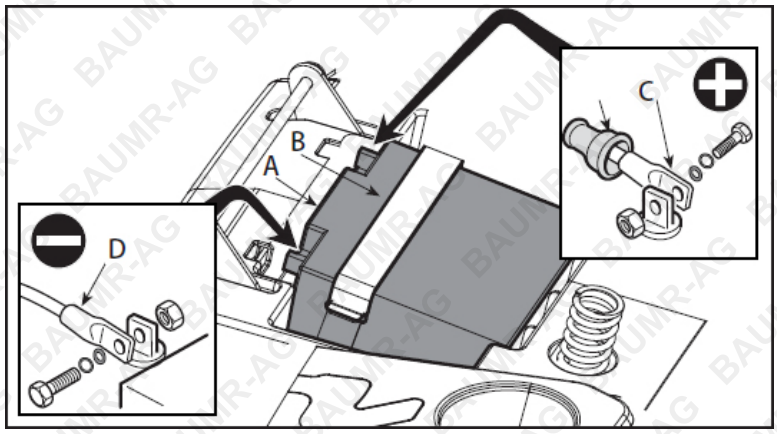
Mounting and Connecting

The battery (A) is located under the seat and secured with a belt (B).

1. Connect the red wire (C) to the positive terminal (+) first, then connect the black wire (D) to the negative terminal (–) using the supplied screws.
2. Apply silicone grease to the terminals and ensure the protective cap (E) is securely covering the red wire.

IMPORTANT: Always fully charge the battery before starting the engine, following the instructions in the battery booklet (if available).

Never start the engine until the battery is fully charged, or the safety device in the electronic circuit board may activate.



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Operation

Fill Fuel

⚠ **WARNING: Read and understand the Safety chapter before operating the product.**

⚠ **WARNING: Petrol is highly flammable. Always refuel outdoors and refer to Fuel Safety.**

⚠ **WARNING: Do not use the fuel tank as a support surface.**

⚠ **CAUTION: Using the incorrect type of fuel may damage the engine. Use unleaded petrol with a minimum octane rating of 91 RON (87 AKI). Do not mix petrol with oil. Biodegradable alkylate petrol is recommended. Do not use petrol containing more than 10% ethanol.**

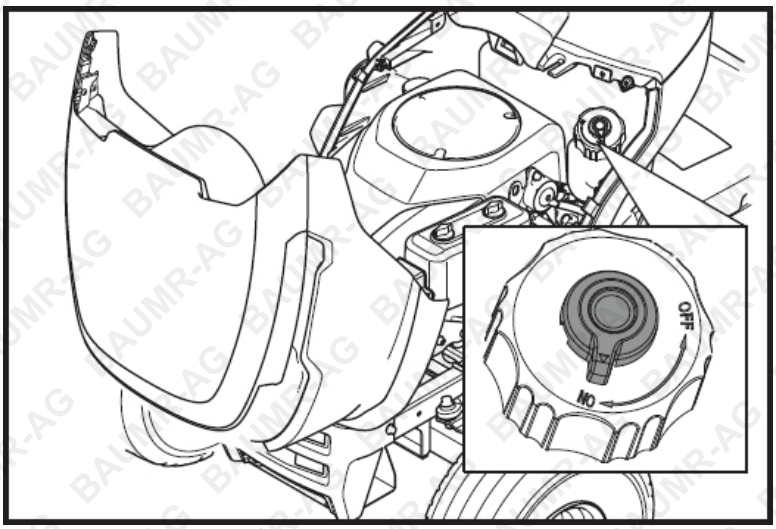
Refuelling Tips:

- Check the fuel level before each use and refill if necessary.
- Do not overfill the fuel tank. Leave at least 2.5 cm of space at the top to allow for expansion.

Before Starting the Product

⚠ **WARNING: Before operating the mower, carefully read and understand all safety and operation instructions.**

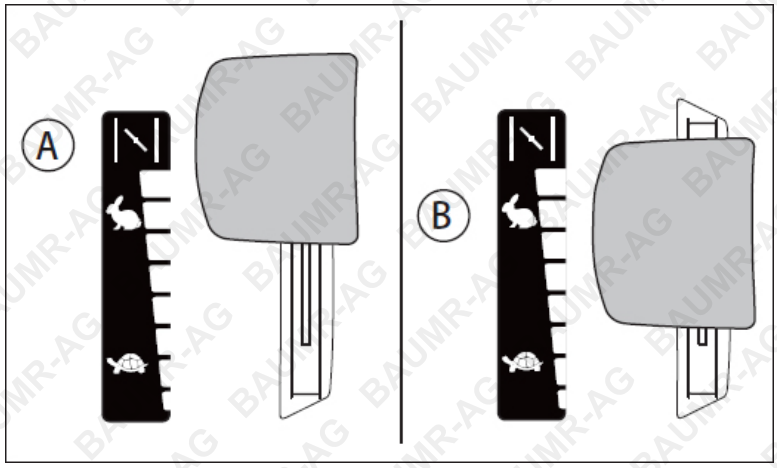
1. Check the engine oil level. Refer to Check the Engine Oil Level.
2. Fill the fuel tank.
3. Turn the fuel tank cap switch to the “ON” position.



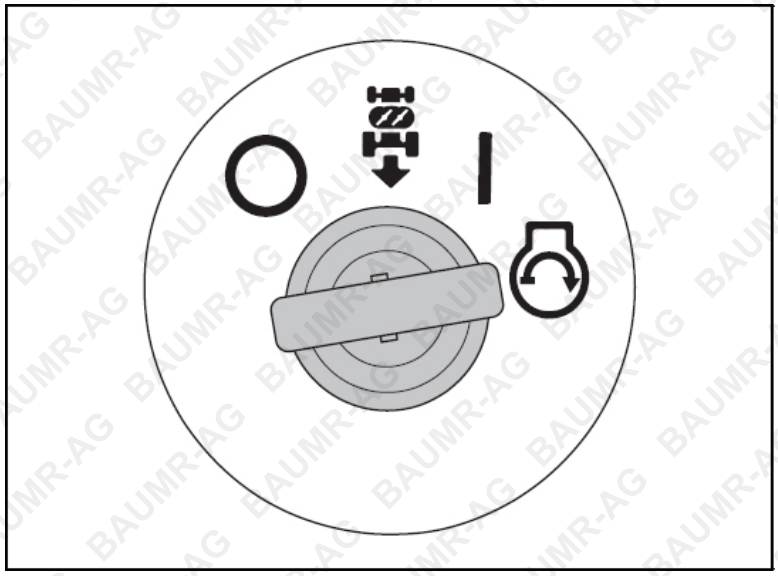
4. Ensure the drive system is engaged. Refer to Engage and Disengage the Drive System.
5. Set the cutting deck to its highest position. Refer to Set the Cutting Height.

Start the Engine

1. Ensure the cutting deck is disengaged. Refer to Engage and Disengage the Cutting Deck.
2. Sit in the seat in the operating position.
3. Apply the parking brake. Refer to Apply and Release the Parking Brake.
4. Move the throttle control lever to position (A) to close the choke.

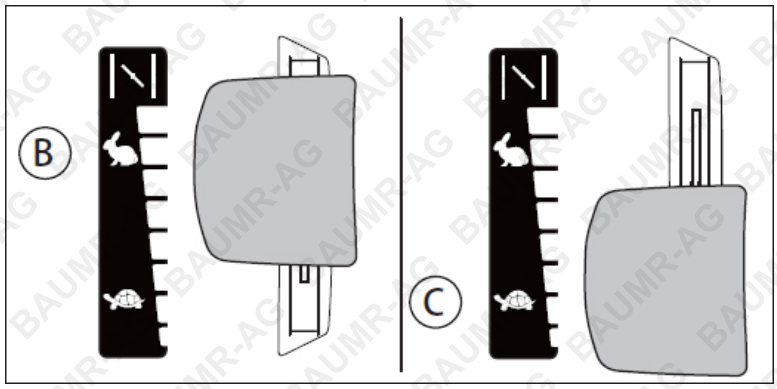


5. Turn the ignition key to the START position. When the engine starts, immediately release the key—it will automatically return to the ON (I) position.



⚠ CAUTION: Do not operate the starter for more than 5 seconds at a time. If the engine does not start, wait 15 seconds before trying again.

6. After the engine starts, quickly move the throttle control lever to full throttle (B).
7. Let the engine run at half throttle for one minute before applying any heavy load.
8. Then push the throttle control lever to full throttle (B).



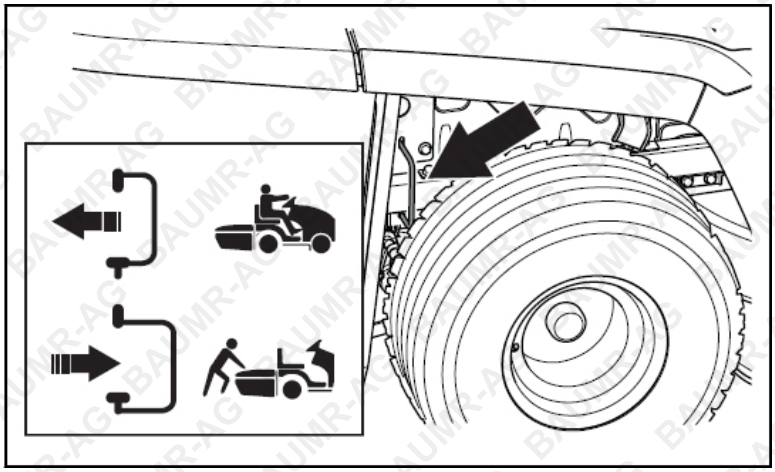
⚠ **CAUTION: Do not set the throttle control to position (C) under load (e.g., during mowing or movement), as it may cause the engine to stall. Engaging the cutting deck at full throttle puts strain on the drive belts. Always engage the cutting deck before switching to full throttle.**

Engage and Disengage the Drive System

To move the mower manually with the engine off, the drive system must be disengaged.

⚠ **CAUTION: Always fully push in or pull out the lever. Do not use partial or middle positions.**

The drive system engagement lever is located behind the right rear wheel.

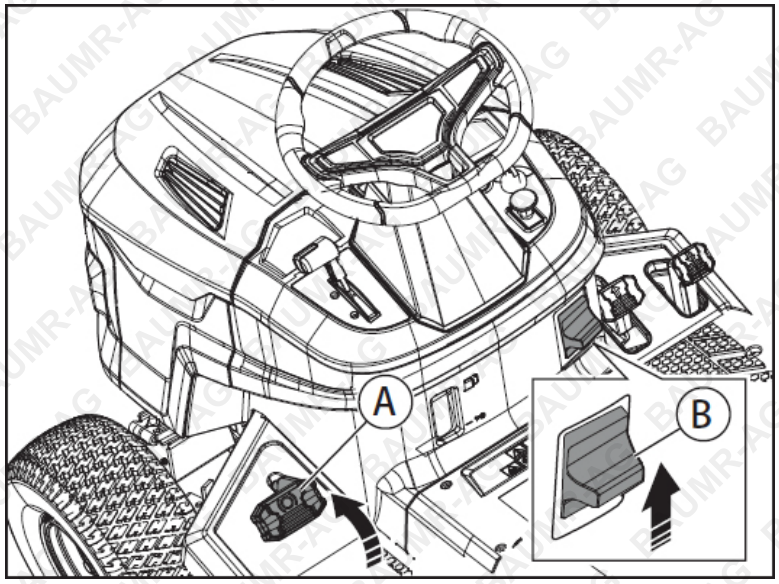


1. Push the lever in fully to engage the drive system.
2. Pull the lever out fully to disengage the drive system.

Apply and Release the Parking Brake

To apply the parking brake:

1. Fully press down the parking brake pedal (A) and pull up the parking brake lock (B).



2. Release the parking brake pedal. The brake will remain engaged.

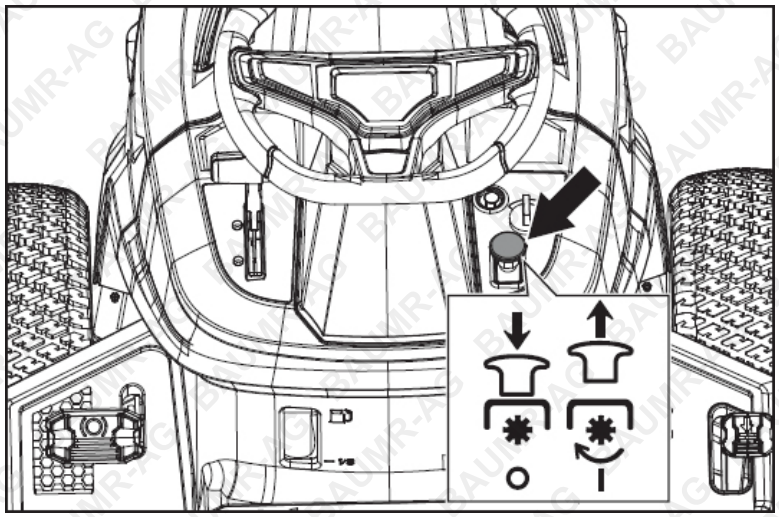
To release the parking brake:

1. Press down on the parking brake pedal, then release it. The brake will disengage.

Engage and Disengage the Cutting Deck

⚠ WARNING: Do not operate the cutting deck without a grass catcher or another approved accessory installed on the grass discharge chute.

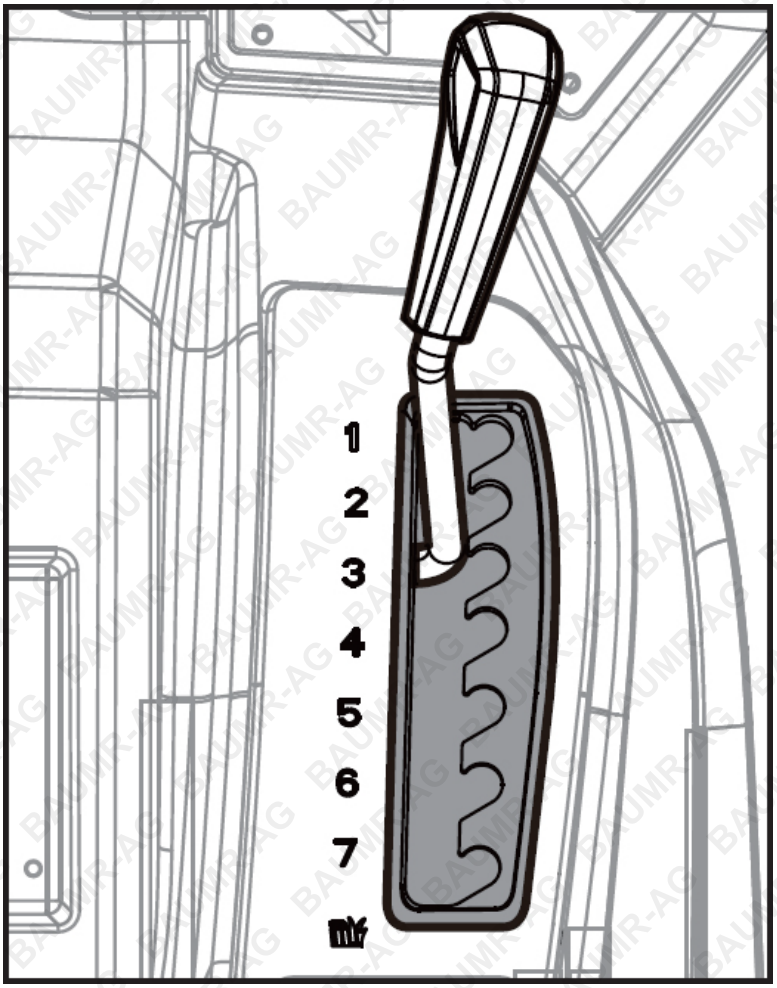
1. Pull out the PTO button to engage the cutting deck.



2. Push in the PTO button to disengage the cutting deck.

Set the Cutting Height

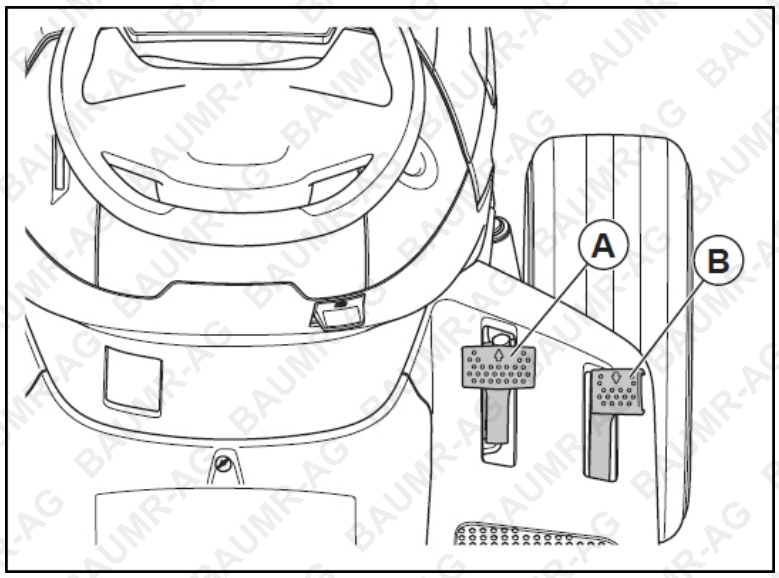
Pull the cutting height lever towards the seat and place it into one of the notches corresponding to your desired cutting height.



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Operate the Mower

1. Start the engine. Refer to Start the Engine.
2. Release the parking brake. Refer to Apply and Release the Parking Brake.
3. Gently press the forward pedal (A) or reverse pedal (B). The further the pedal is pressed, the faster the mower will move.



Note: Both pedals automatically return to the neutral position when released.

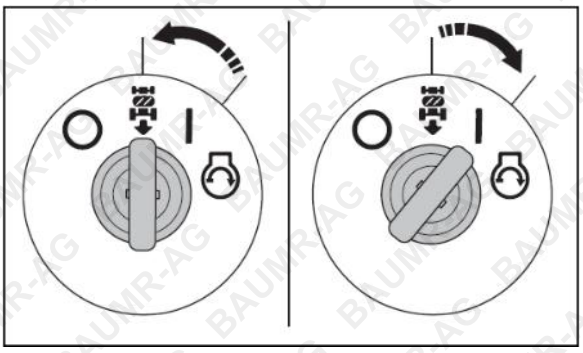
4. Release the pedals to brake.
5. Set the appropriate cutting height. Refer to Set the Cutting Height.
6. Engage the cutting deck. Refer to Engage and Disengage the Cutting Deck.

Use the Reverse Operation System (ROS)

Note: If you attempt to reverse while the cutting deck is engaged without activating ROS, the engine will shut off immediately. The ROS must be engaged to reverse with the cutting deck running.

⚠ WARNING: Before and during reverse operation, always look down and behind the mower to ensure no people, pets, or obstacles are present.

1. Turn the ignition key counterclockwise to the ROS position to enable reverse mowing.

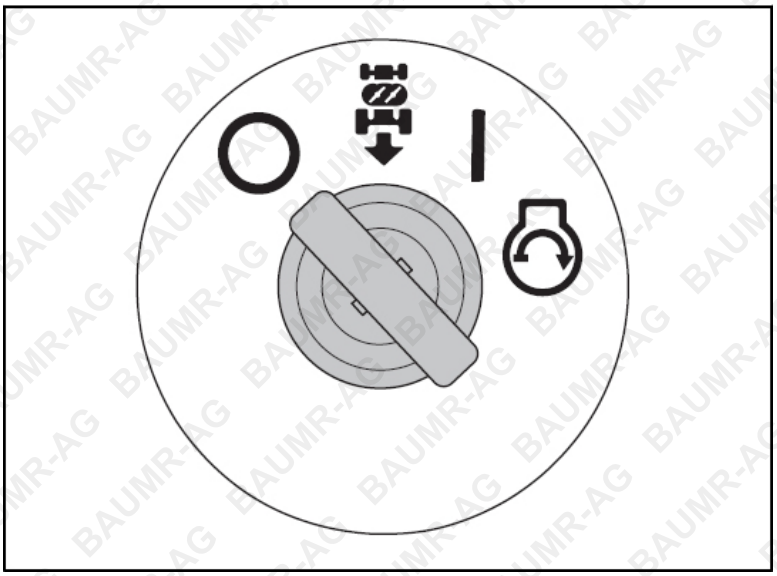


2. Slowly press the reverse pedal to begin moving backward.
3. To disengage ROS, turn the ignition key clockwise to the engine ON (I) position.

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Stop the Engine

1. Disengage the cutting deck. Refer to Engage and Disengage the Cutting Deck.
2. Turn the ignition key to the OFF (O) position.



3. Once the mower has come to a complete stop, apply the parking brake. Refer to Apply and Release the Parking Brake.

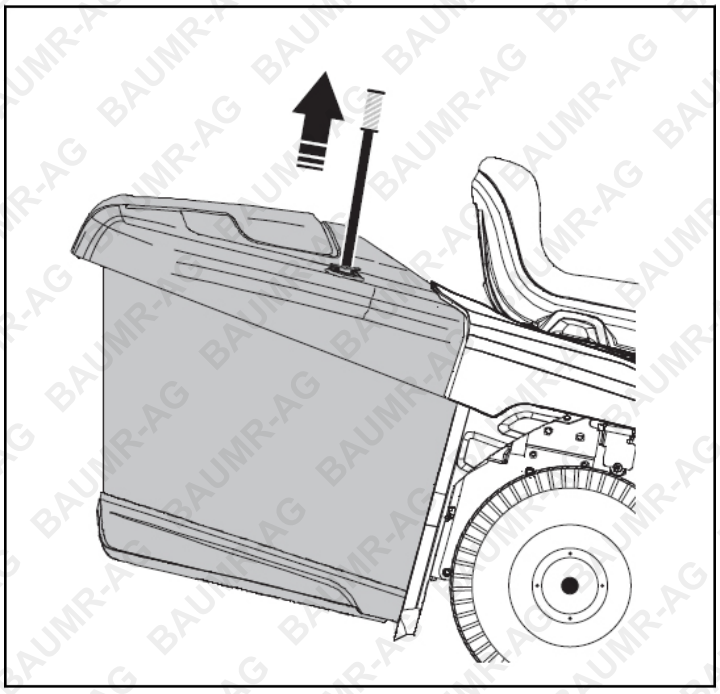
Get a Good Cutting Result

- Perform regular maintenance according to the Maintenance Schedule for optimal performance.
- Avoid cutting wet grass, as it can lead to a poor cutting result.
- Do not use tyre chains when operating the mower with the cutting deck attached.
- Ensure the cutting deck is level. Refer to Adjust the Parallelism of the Cutting Deck.
- If the grass is long, begin with a higher cutting height, then gradually lower it.
- Operate at low speed when cutting thick or tall grass.
- Always mow at full throttle for the best blade performance.
- Vary your mowing pattern to avoid compacting the grass in one direction.
- Cut the grass frequently for a consistently neat result.

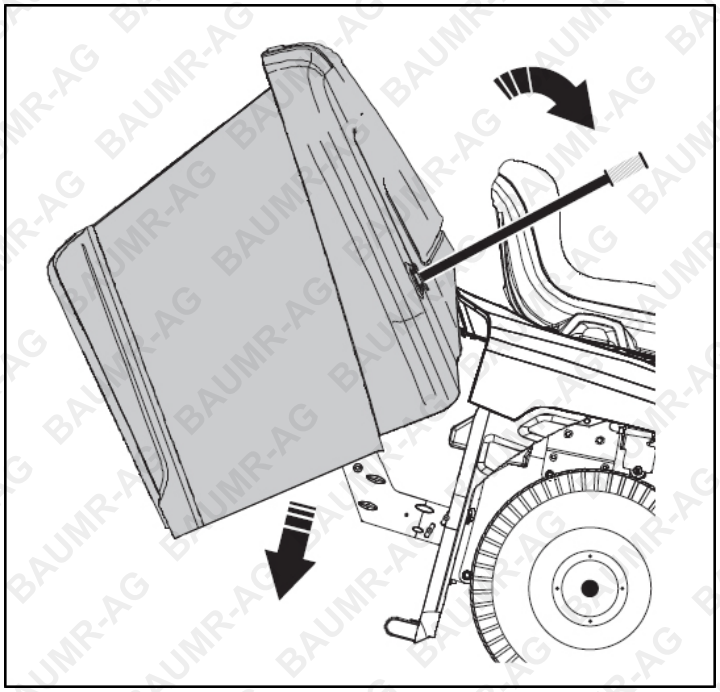
Empty the Grass Catcher

The mower is equipped with an alarm that activates when the grass catcher is full. To stop the alarm, disengage the cutting deck. Refer to Engage and Disengage the Cutting Deck.

1. Drive the mower to a suitable location for emptying the grass catcher.
2. Ensure both pedals are in the neutral position and the parking brake is engaged.
3. Lift the grass catcher handle to its highest position.



4. Tilt the grass catcher forward by pulling the handle, allowing the clippings to empty.



5. Lower the grass catcher by pushing the handle rearward. Ensure it is fully lowered and that the latches securely lock the bottom section in place.

Disengaging or Engaging the Hydrostatic Drive

For the purposes of moving the ride on mowers manually, some units will feature engagement levers. Please note that when engaged, the motors will not work at all. These are only to be used when you need to push the mower by hand.

Also note that if the metal grate has been fitted to “low” it can hinder the movement of these levers, which may stop the user from activating the levers. Simply move the grate up when experiencing this issue.



Appearance and position may vary.

Levers are engaged; the mower can be pushed by hand. The motors are not active at all in this position.



Appearance and position may vary.

Levers are disengaged. The motors will work as normal; you will not be able to push the mower by hand.

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Maintenance

ATTENTION: Surface corrosion will occur on metal surfaces over time and the rate of oxidation depends on factors such as proximity to the ocean and humidity or condensation of water vapour on metal surfaces. To mitigate this, WD40 can be used to remove surface corrosion then, when applied periodically, it will prevent rust from forming.

⚠ **WARNING: Before performing any maintenance or cleaning work, switch off the engine and wait until the blade has come to a stop.**

⚠ **WARNING: Before performing any maintenance, you must read and understand the Safety section of this manual.**

Maintenance Schedule

X = The maintenance procedure is described in this operator's manual.

O = The procedure is not described in this manual. Please have it performed by an authorised service agent.

General Maintenance

Task	Frequency (Before Each Use / Weekly)	Frequency (Every 50 hrs or Annually)
Clean the battery and terminals		O
Check battery level and charge if necessary		X
Inspect belts and pulleys for wear/damage		O
Clean the engine and transmission	X	X
Inspect wiring for damage		O
Lubricate the product		X
Check that all fasteners are tightened		O
Check tyre pressure	X	X

Engine Maintenance

Task	Frequency (Before Each Use / Weekly)	Frequency (Every 50 hrs or Annually)
Inspect fuel hose for damage		O
Replace the fuel filter		X
Clean the air filter	X	
Replace the air filter		X
Inspect muffler and heat deflector	X	X

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Task	Frequency (Before Each Use / Weekly)	Frequency (Every 50 hrs or Annually)
Check engine oil level; top up if necessary	X	
Replace engine oil		X
Replace engine oil filter		X
Replace spark plug		X
Check/adjust engine speed		O

Transmission, Controls & Drive System

Task	Frequency (Before Each Use / Weekly)	Frequency (Every 50 hrs or Annually)
Inspect transmission cooling fan	X	X
Remove wheels and lubricate axles		O
Check that pedals return to neutral		X
Test forward/reverse drive at different speeds		O
Check blade engagement switch		X
Check cutting height lever switch		X
Check switches for forward/reverse pedals		X
Check the parking brake	X	
Check operator presence control (OPC)	X	

Cutting Equipment

Task	Frequency (Before Each Use / Weekly)	Frequency (Every 50 hrs or Annually)
Clean cutting deck and under belt covers		X
Check deck parallelism; adjust if needed		X
Inspect cutting deck belt		O
Inspect and sharpen/replace blades		X
Check blade brakes (if equipped)		O
Inspect grass catcher and switches (TC models only)		X

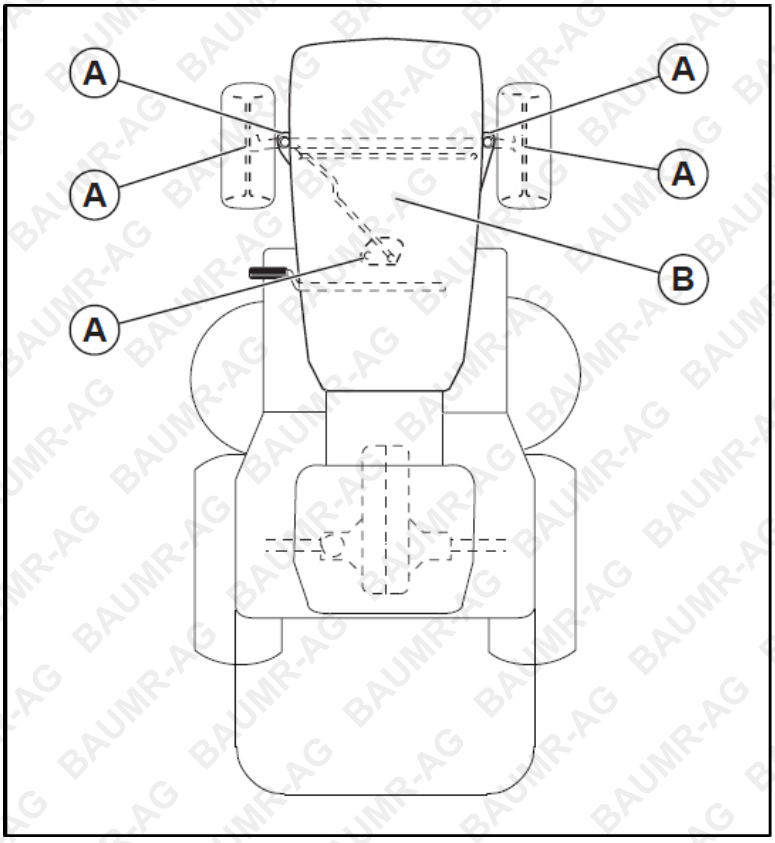
Maintenance Schedule – Petrol Engine / Machine

Component / Task	Every Use	After First 5 Hours Use	3 Months / 25 Hours Use	6 Months / 50 Hours Use	12 Months / 100 Hours Use	Major Service – Normal Use 24 Months / 200 Hours Use	Major Service – Heavy-Duty Use Every 200 Hours Use
Engine Oil ****	Check level. Adjust as necessary	Replace					
Engine Oil Filter *				Replace			
Loose Engine / Machine Fasteners	Check. Tighten as necessary						
Air Filter	Check	Clean. Replace as necessary			Clean, Oil and Replace as necessary.	Replace	
Spark Plug			Check		Replace		
Spark Arrestor *							
Fuel Filter *				Clean. Replace as necessary		Replace	
Fuel Strainer *	Check						
Float Bowl *					Clean		
Fuel Lines / Hoses	Check	Replace as necessary					
Fuel injector *					Check. Clean		
Fuel Pump *							
Fuel Tank					Flush and clean		
Idle Speed					Check. Adjust as necessary		
Valve Clearance					Check. Adjust as necessary		
Cylinder Head Fasteners						Check. Tighten as necessary	
Combustion Chamber					Check. Clean / de-coke as necessary		
Battery Electrolyte *		Check level. Adjust as necessary					
Major Service						Perform	
Cutting Blade / Chain *	Check	Sharpen. Replace as necessary					
Water Pump Oil **	Check level. Adjust as necessary					Replace	
Hydraulic Fluid ***	Check level. Adjust as necessary					Replace	
Drive Belt Maintenance *	Check tension. Clean & adjust as necessary. How to remove the cover.					Check. Replace as necessary	

* Where applicable. ** Pressure washers with non-sealed water pumps. *** Log splitters only.
**** Briggs & Stratton "EXi" engines do NOT require engine oil changes; just ensure that oil level is correct.

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Lubrication Schedule



A. General lubrication: Lubricate the spindle grease fitting, the gear teeth of the sector gear, and the steering column.

B. Engine lubrication: Refer to Do a Check of the Engine Oil Level.

Clean the Mower

⚠ CAUTION: Do not use a high-pressure washer or steam cleaner. Water can penetrate bearings and electrical connections, leading to corrosion and product damage.

Clean the mower immediately after each use.

- Do not clean hot components such as the engine, muffler, or exhaust system. Allow them to cool completely before removing grass and dirt.
- Brush off debris before washing with water. Focus on the transmission, transmission air intake, and engine area.
- Clean the top of the cutting deck, under the belt covers, and beneath the deck. Refer to Clean the Cutting Deck.
- Use low-pressure running water from a hose.
- Avoid directing water at electrical components or bearings. Using detergents may worsen the damage.
- After washing, briefly start the cutting deck to spin off excess water.

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Clean the Engine and the Muffler

- Keep the engine and muffler free from grass cuttings and dirt.
- Grass cuttings soaked in fuel or oil on the engine can increase the risk of fire and overheating.
- Allow the engine to cool completely before cleaning.
- Clean using water and a brush.
- Grass cuttings that accumulate around the muffler dry quickly and pose a fire hazard. Use a brush or rinse with water to remove grass when the muffler is cold.

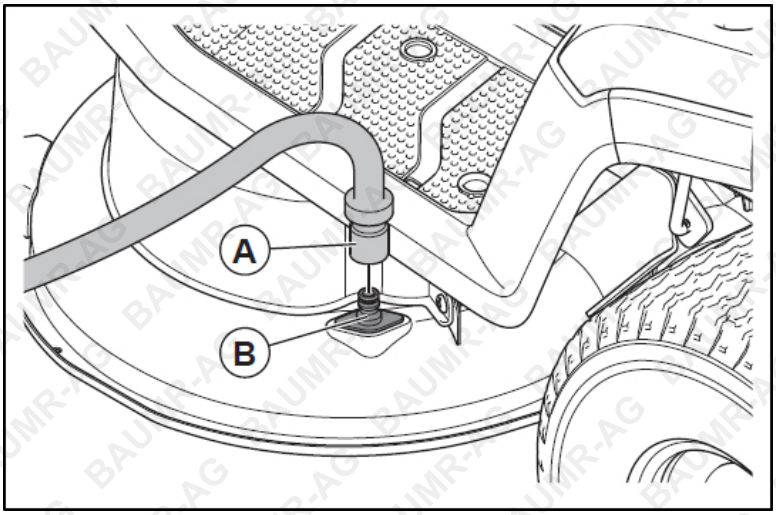
Clean the Cutting Deck

⚠ WARNING: Do not operate the mower with a broken or missing deck washout port, as this can result in thrown objects. Replace any damaged or missing washout ports immediately.

1. Park the mower on a clear section of lawn near a water source with a garden hose.

⚠ CAUTION: Do not point the discharge chute towards buildings, vehicles, or people.

2. Ensure the cutting deck is disengaged. Refer to Engage and Disengage the Cutting Deck.
3. Stop the engine. Refer to Stop the Engine.
4. Apply the parking brake. Refer to Apply and Release the Parking Brake.
5. Connect a garden hose (A) to the deck washout port (B) and turn on the water.



6. Sit in the seat and start the engine. Refer to Start the Engine.

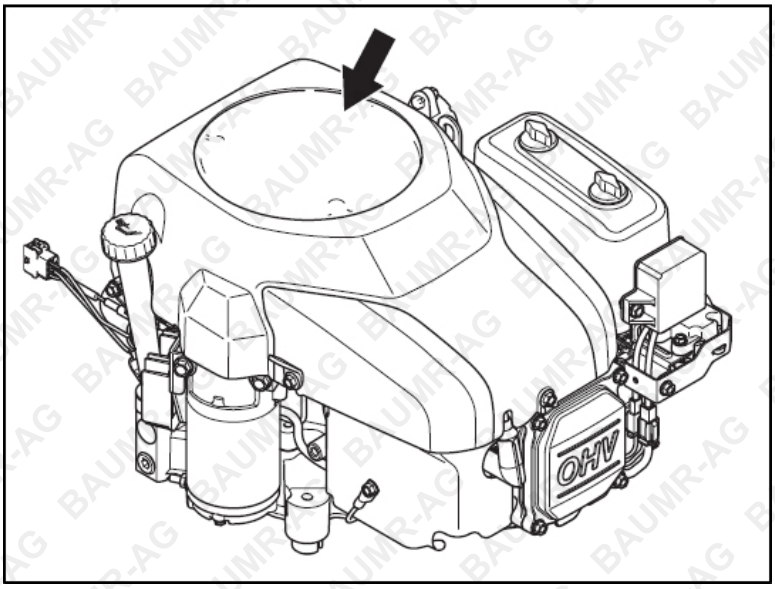
⚠ CAUTION: Re-check the surrounding area to ensure it is clear before starting the engine.

7. Engage the cutting deck and let it run at full throttle until clean.
8. Disengage the cutting deck and stop the engine.
9. Turn off the water supply and disconnect the hose from the washout port.
10. Move the mower to a dry area.
11. Sit in the seat and start the engine again.
12. Engage the cutting deck and run it until the deck is dry.

Clean the Air Intake of the Engine

⚠ WARNING: Stop the engine before cleaning. The air intake contains rotating parts that can cause injury to your fingers.

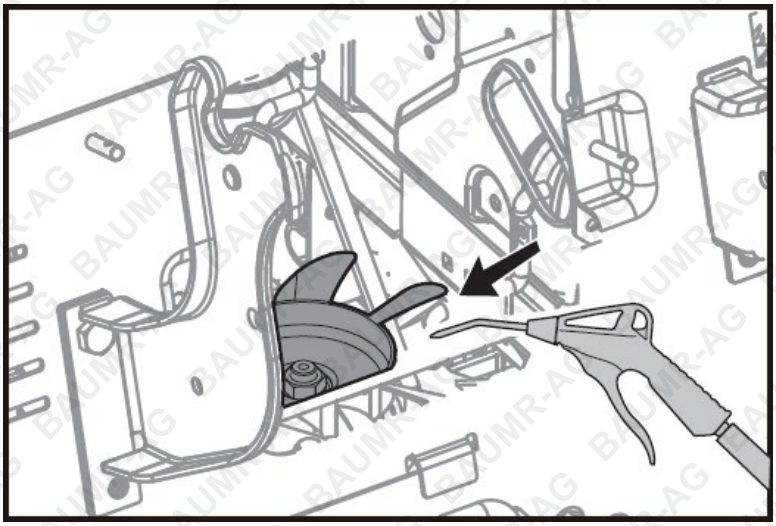
1. Open the engine cover.
2. Check that the air intake is not blocked.
3. Use a brush to remove grass, dirt, and debris.



Clean the Cooling Fan on the Transmission

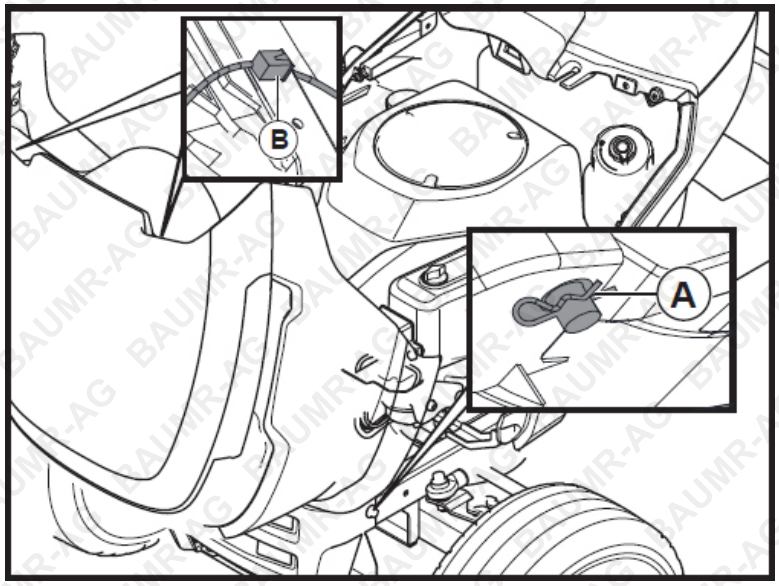
⚠ WARNING: Stop the engine before cleaning. The cooling fan rotates and can cause injury to your fingers.

1. Remove the centre chute. Refer to Remove and Install the Centre Chute.
2. Clean the cooling fan on the transmission using compressed air.



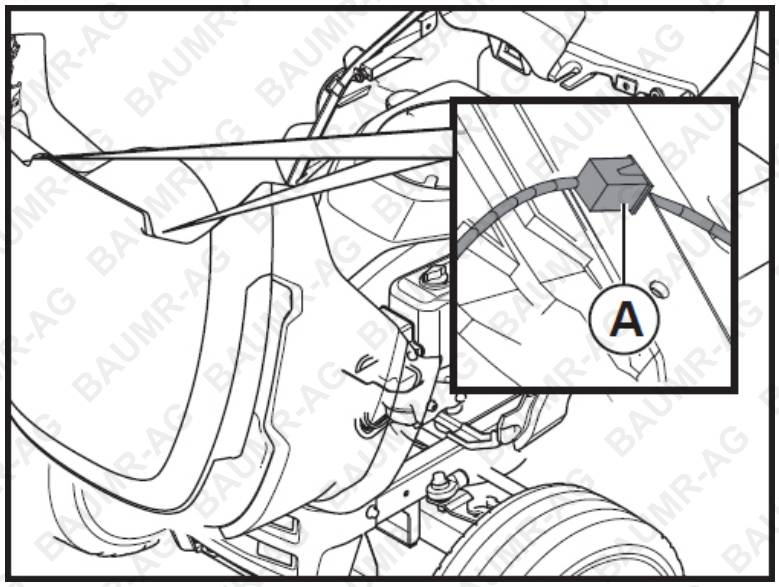
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Remove and Install the Engine Cover



1. Open the engine cover.
2. Disconnect the headlight wire connectors (B) — there are two.
   a. Press the trapezoidal part on each connector and apply light pressure to disconnect.
3. Remove the retaining pins on both sides of the mower:
   a. First, pull out the R-type pin.
   b. Then remove the cotter pin (A).
4. To reinstall, follow the above steps in reverse order.

Replace the Headlight Assembly



1. Open the hood.
2. Disconnect the wiring connectors (A) for both the left and right headlights.
3. Remove the headlight that needs replacing and install the new one.

4. Reconnect the headlight wiring in reverse order and close the hood.

Do a Check of the Parking Brake

1. Park the product on a hard, sloped surface.

Note: Do not use a grassy slope for this check.

2. Apply the parking brake.

   Refer to Apply and Release the Parking Brake.
3. Observe the product.

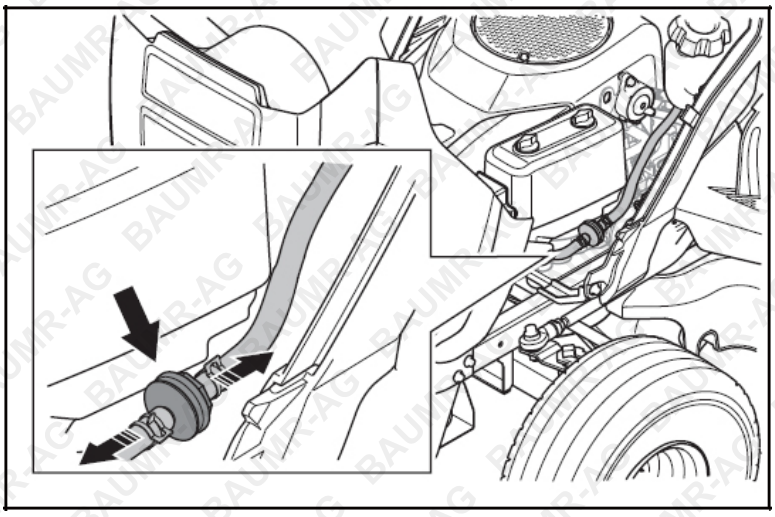
   If it begins to move, have the parking brake adjusted by an approved service agent.
4. Release the parking brake by pressing the parking brake pedal again.

Replace the Fuel Filter

Note: The illustration shows one type of fuel filter. Your product may have a different model, but the replacement procedure remains the same.

1. Open the engine cover to access the fuel filter.
2. Clamp the fuel tank hose to prevent fuel leakage.
3. Use flat pliers to slide the hose clips away from the fuel filter.
4. Detach the fuel filter from the hose ends.

CAUTION: A small amount of fuel may spill—have a cloth ready.

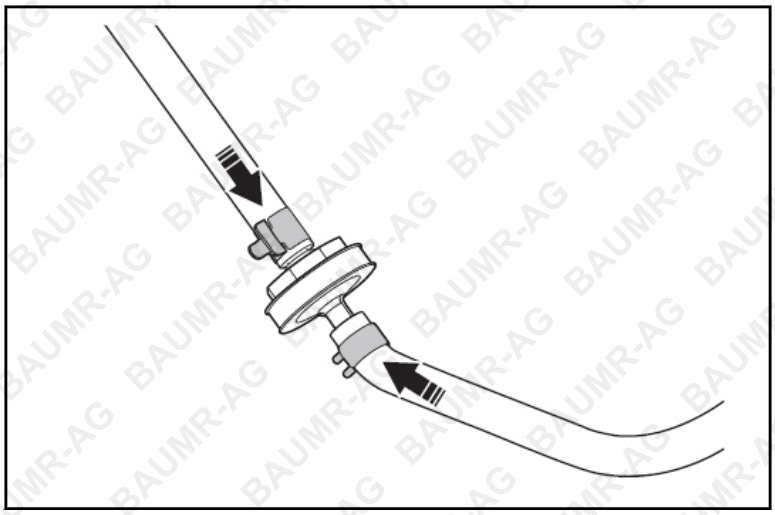


5. Install the new fuel filter by pushing it into the hose ends.

Tip: Apply a small amount of liquid detergent to the ends of the fuel filter to ease installation.

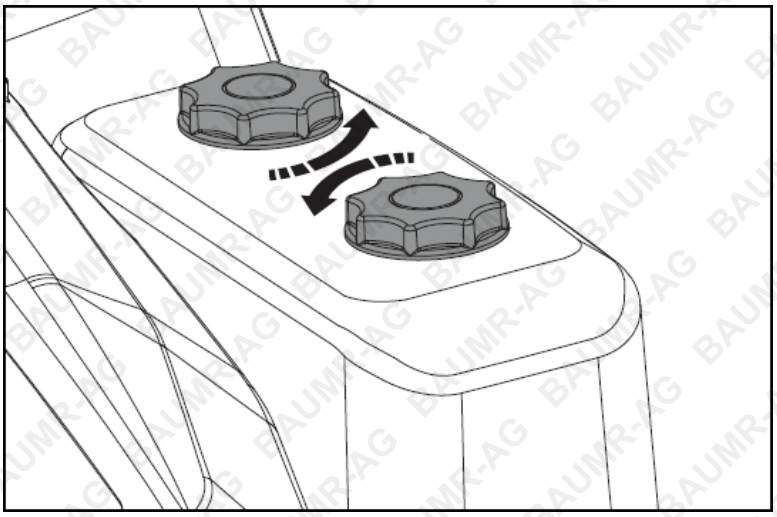
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6. Reposition the hose clips against the new fuel filter to secure it in place.

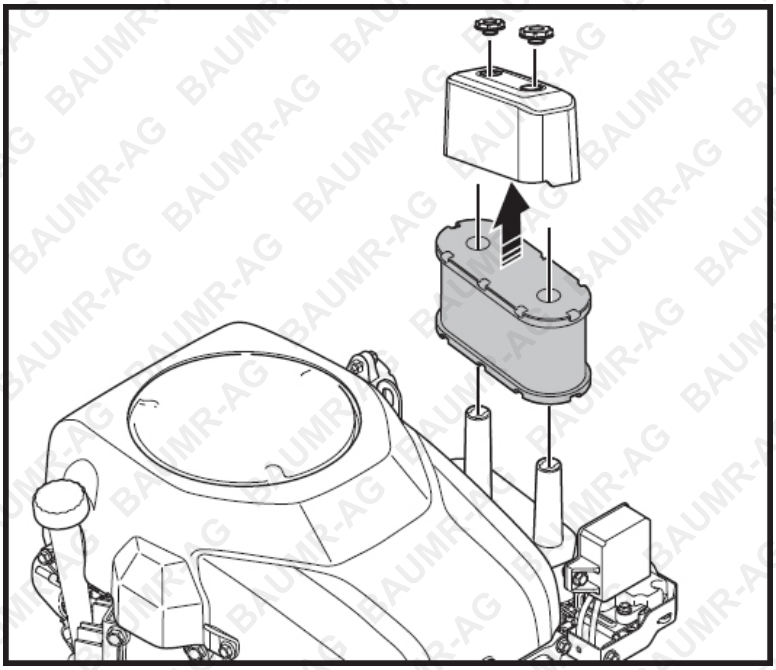


Clean and Replace the Air Filter

1. Open the engine cover to access the air filter assembly.
2. Loosen the knobs securing the air filter cover and remove the cover.



3. Remove the air filter cartridge from the housing.



4. To Clean the Foam Air Filter:
   a. Detach the foam air filter from the air filter cartridge.
   b. Wash it with a mild detergent and warm water.
   c. Allow the foam filter to dry completely.
   d. Reinstall the dry foam filter around the air filter cartridge.
5. To Clean the Paper Air Filter:
   a. Tap the paper filter gently against a hard surface to dislodge debris.
   b. Blow compressed air from the inner side of the filter to clean further.

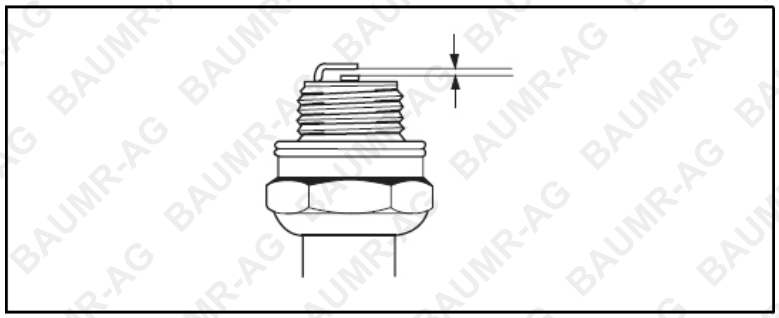
> ⚠ **CAUTION: If the paper air filter remains dirty or is damaged, replace it with a new one.**

6. Reassemble all components in the reverse order.

Examine and Replace a Spark Plug

1. Open the engine cover to access the spark plug.
2. Remove the spark plug cap and clean the area around the spark plug to prevent debris from entering the cylinder.
3. Use a spark plug wrench to remove the spark plug.
4. Inspect the spark plug:
   a. Replace if the electrodes are burnt, or if the insulation is cracked or damaged.
   b. If it is not damaged, clean it using a steel wire brush.

5. Check the electrode gap using a feeler gauge.



6. Adjust the gap, if necessary, by carefully bending the side electrode.
7. Reinstall the spark plug by hand until it seats against the cylinder.
8. Tighten the spark plug using the wrench until the washer is compressed.
   a. For a used spark plug, tighten an additional ⅛ turn.
   b. For a new spark plug, tighten an additional ¼ turn.

⚠ CAUTION: Incorrect tightening may cause engine damage.

9. Reconnect the spark plug cap.

⚠ CAUTION: Do not attempt to start the engine if the spark plug or ignition cable is removed.

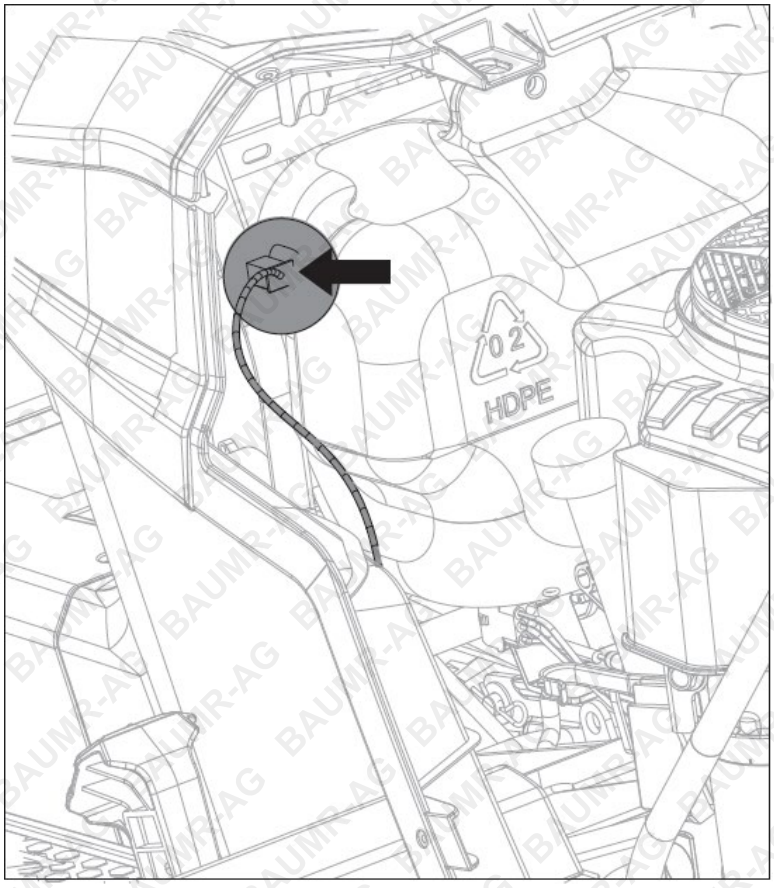
Replace the Main Fuse

The main fuse is a 20A fuse that protects the circuit. If it is blown, the machine may not start properly.

1. Replace the damaged fuse with a new one of the same type and rated current (20A).

⚠ CAUTION: Never replace a fuse with one of a different rating or type, as this may cause damage or pose a safety risk.

2. If the cause of the blown fuse is unclear, please contact your authorised dealer or service agent for assistance.



Storage Precaution

⚠ CAUTION: If the machine is not going to be used for an extended period:

Disconnect the battery: Remove both the positive and negative terminals from the battery.

Avoid leaving the battery unused for more than 3 months, as this may impair the machine's ability to start normally.

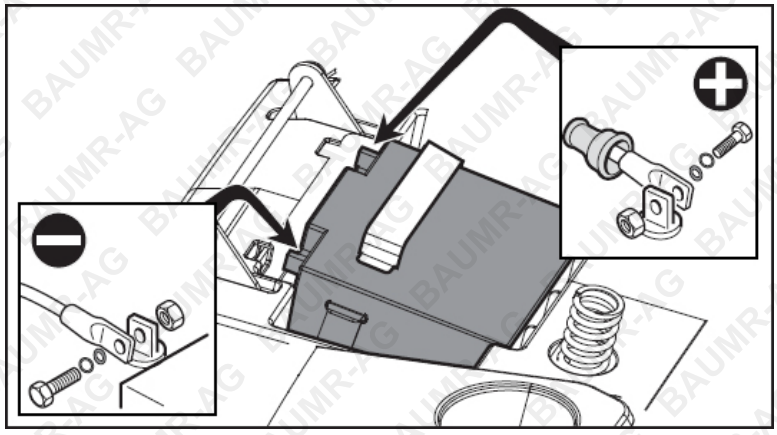
Replace the Battery

⚠ **WARNING: Risk of electric shock and burn injuries. Do not wear metal wristbands, rings, or other metallic accessories. Metal objects in contact with the battery terminals can cause short circuits, electrical shock, or burn injuries.**

1. Remove the battery strap and battery cover.

Note: The battery is located behind the seat.

2. Remove the terminal cover from the black (negative) battery cable.
3. Disconnect the negative (–) cable: Remove the screw and nut, then detach the black cable from the negative terminal.
4. Remove the terminal cover from the red (positive) battery cable.
5. Disconnect the positive (+) cable: Remove the screw and nut, then detach the red cable from the positive terminal.
6. Carefully lift out the old battery from the machine.
7. Install the new battery into the compartment.
8. Connect the red cable to the positive (+) terminal and install the nut and screw.
9. Install the terminal cover on the red cable.
10. Connect the black cable to the negative (–) terminal and install the nut, screw, and terminal cover.
11. Reinstall the battery cover and secure it with the strap.



Check the Tyre Pressure

Ensure that the tyre pressure is correct in all four tyres for optimal performance and safety.

✅ **Tip: Check the Specifications sections or tyre sidewall for the recommended pressure values. Incorrect pressure can affect stability, traction, and cutting performance.**

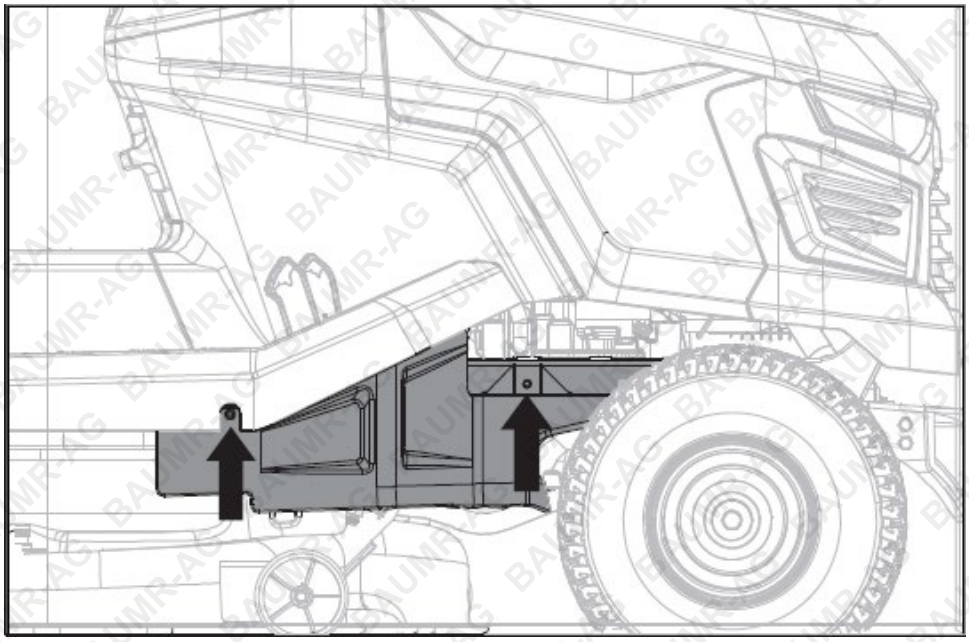
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Remove and Install the Cutting Deck

⚠ WARNING: The cutting deck is heavy. Always use a suitable lifting tool (e.g., crowbar) to support its weight during removal. Never place your hands or feet under the deck or blades before all power is disconnected and supports are in place. The height adjustment mechanism is spring-loaded and can cause crush injury. Do not release the lever without holding it securely.

Removal Procedure

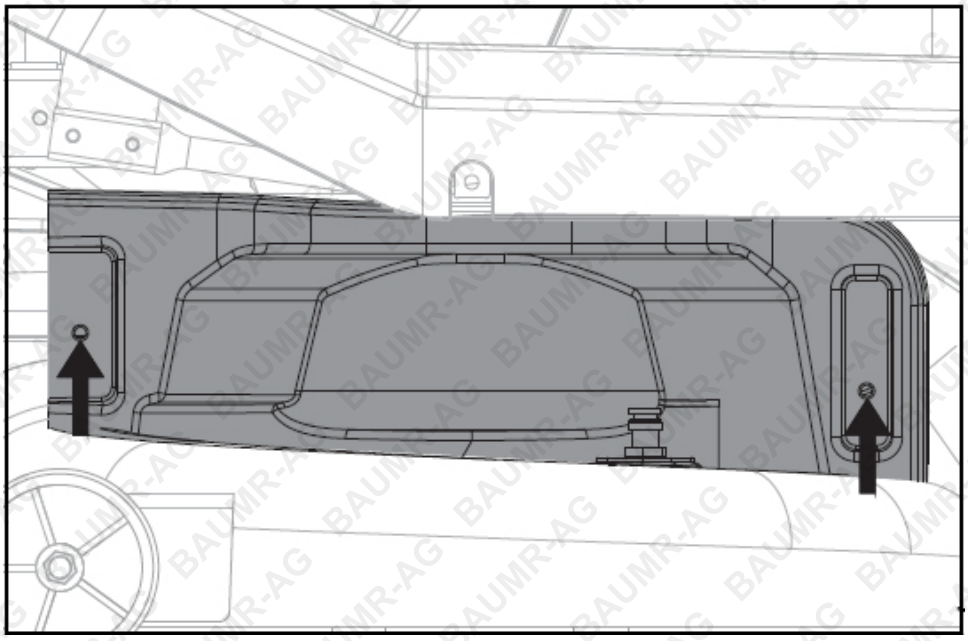
1. **Preparation**
   a. Disengage the cutting deck and stop the engine.
   b. Move the cutting deck to its lowest position.
2. **Remove Skirt Edges**
   a. Remove two bolts on each side (total of four) from the skirt edges as shown in the diagram.
   b. Take out the skirt edges from both sides of the machine.



3. Remove Belt Covers

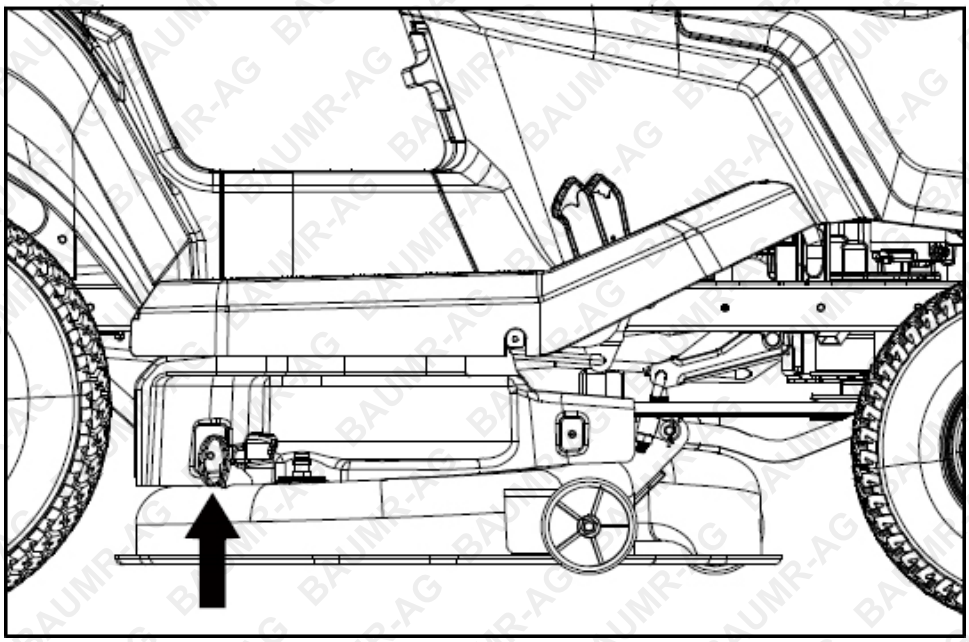
a. Remove two bolts on each side (total of four) from the belt covers.

b. Take off the belt covers from both sides.



4. Disengage Belt Tension Spring

a. Carefully disconnect one end of the belt tension spring from the cutterhead hook.



5. Remove Drive Belt

a. Slide the drive belt off the engine pulley.

6. Disconnect Forward/Reverse Gear Pins

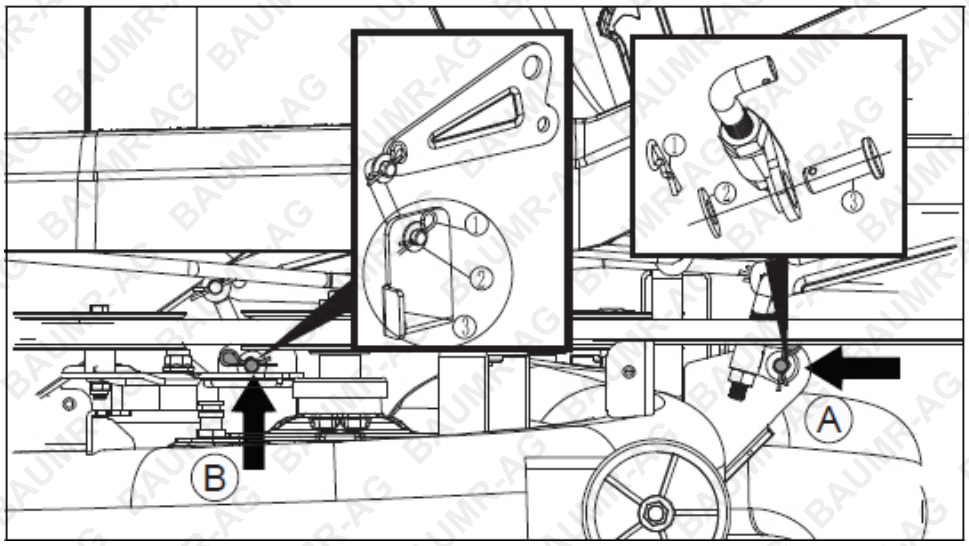
Remove:

– 2 × R-pins
– 2 × washers
– 2 × pins

7. Disconnect Brake Gear Pins

Remove:

– 2 × R-pins
– 2 × gaskets
– 2 × pins

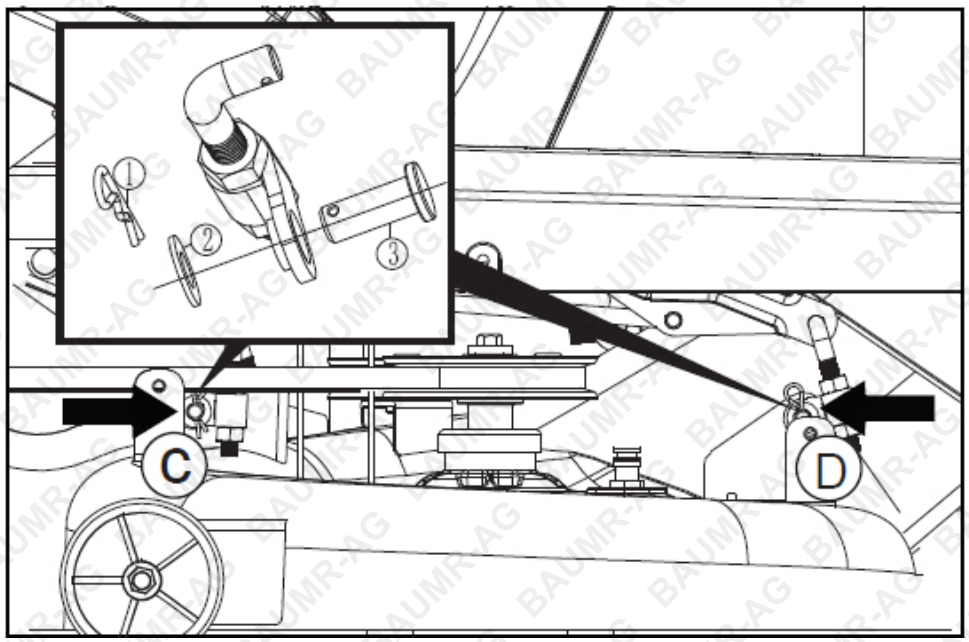


8. Disconnect Rear Links

Place a support under the deck.

Left Side:

a. Remove clip (1), washer (2), and pin (3).



b. Disconnect the left rear link.

Right Side:

a. Hold the cutting height lever in the lowest position.
b. Remove clip, washer, and pin.
c. Disconnect the right rear link.
d. Carefully release the lever while ensuring no body parts are in the mechanism's path.

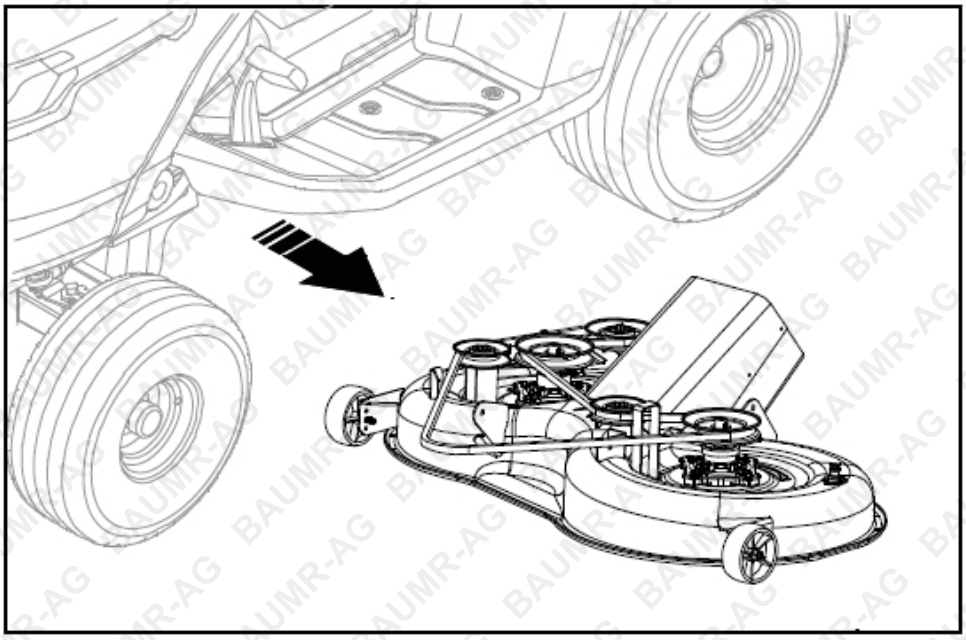
9. Remove from ACD (Attachment Points)

The ACD has three fasteners:

a. Remove R-pin (①) and gasket (②).
b. Pull out pin (③) to detach the cutterhead.

10. Remove Cutting Deck

After removing all four pin sets (from points A, B, C, and D), pull out the cutterhead from the side.



Installation Procedure

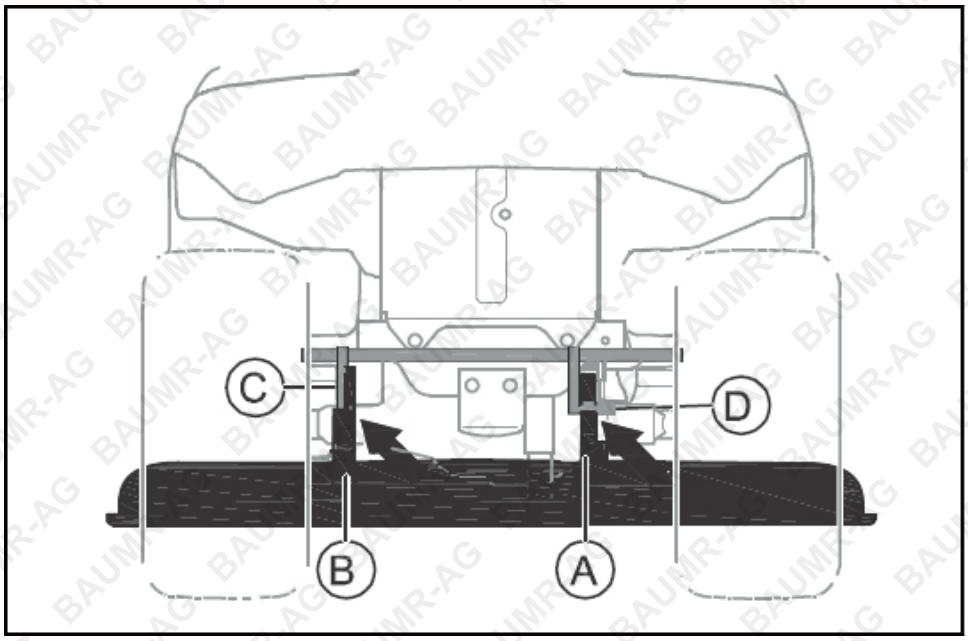
11. Install in Reverse Order

a. Reattach all pins, washers, and links in the reverse order of removal.
b. Ensure drive belt is routed properly and not pinched or compressed during reassembly.

12. Correct Mounting Alignment

Make sure the brackets are correctly connected:

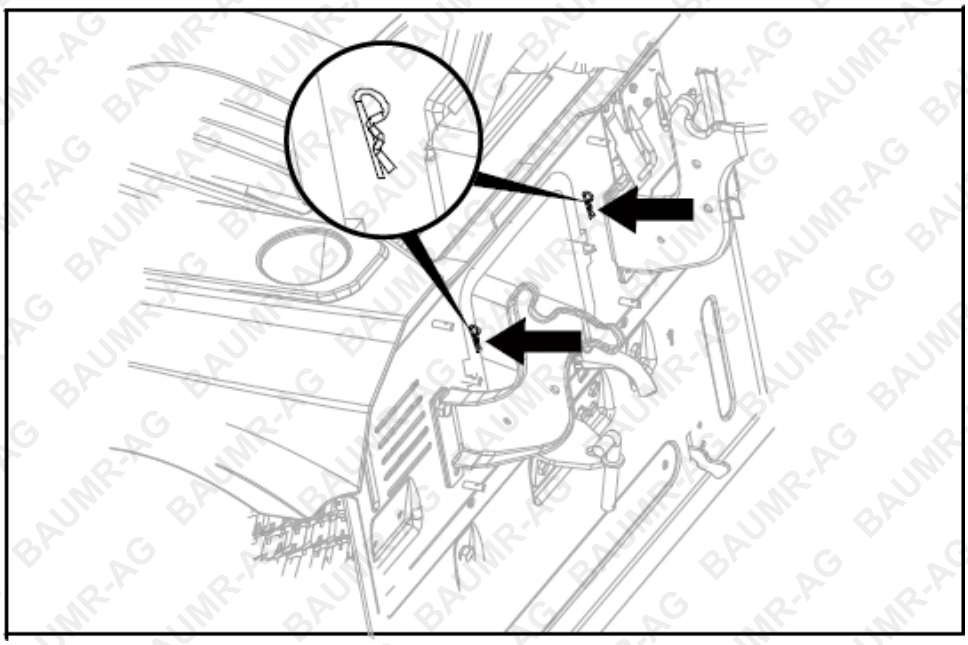
a. The mounting plate (A) on the right cutterhead should be on the right side of the assembly plate (D).
b. The mounting plate (B) on the left cutterhead should be on the right side of the assembly plate (C).



Remove and Install the Centre Chute

Removal Procedure

1. Disengage the Cutting Deck. Ensure the cutting deck is disengaged and the product is completely stopped.
2. Power Down. Set the power switch to the OFF (O) position and remove the power switch key.
3. Remove the Grass Catcher. Detach the grass catcher to access the centre chute area.
4. Remove the R-Shaped Pin. Carefully pull out the R-shaped locking pin that secures the chute.



5. Remove the Centre Chute. Slide the centre chute out of position.

Installation Procedure

6. Reinstall in Reverse Order. Reinsert the centre chute, lock it with the R-shaped pin, and reattach the grass catcher. Restore power only after confirming everything is securely in place.

Adjust the angle of the Cutting Deck

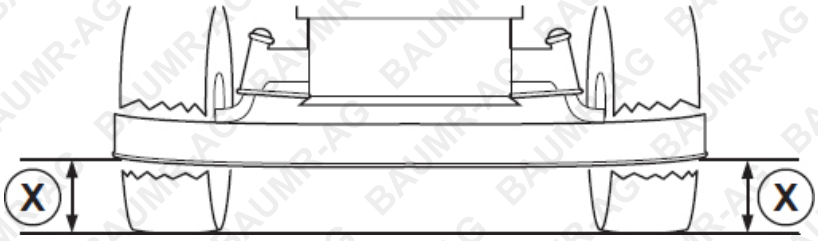
Side-to-Side Cutting Height Adjustment

If the cutting height is uneven between the left and right sides of the cutting deck, perform the following adjustment:

Preparation

1. Check Tyre Pressure. Ensure all four tyres are inflated to the correct pressure. Refer to Tyre Pressure.
2. Park on Level Ground. Position the product on a flat, level surface.
3. Raise the Cutting Deck. Move the cutting deck to its highest position.
4. Measure Cutting Height. Measure the distance (X) from the bottom edge of the cutting deck to the ground on both the left and right sides.

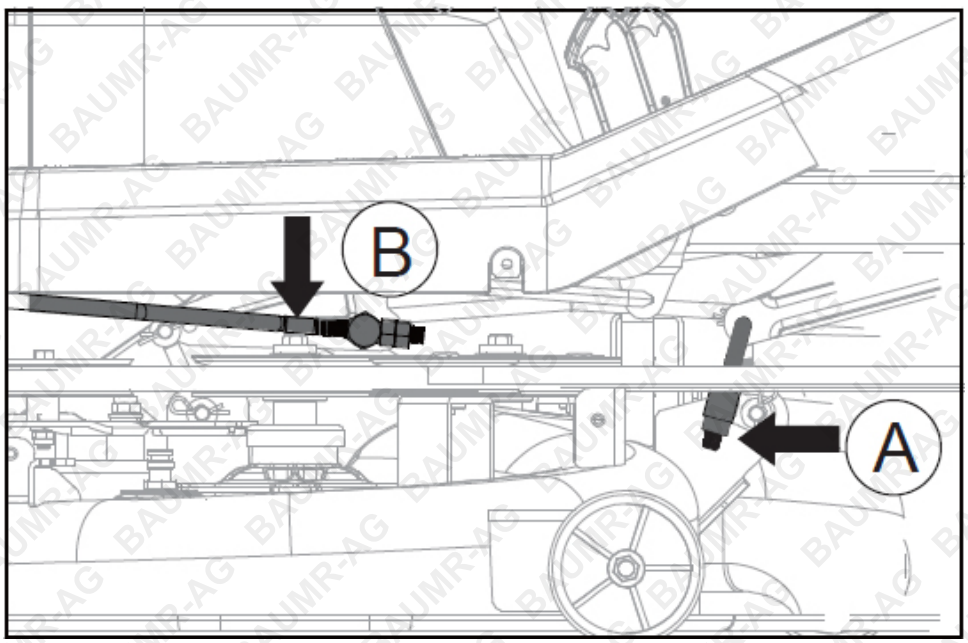
   ➤ The distance must be equal on both sides.



⚠WARNING: The cutting blades are sharp and can cause injury. Always wear protective gloves when working near blades.

Deck Height Adjustment Procedure

5. Adjust Point B (Rear Centre – Forward/Reverse Gear Side)
   a. Loosen the outer anti-loosening nut at Point B and back it away from the inner nut.
   b. Turn the inner nut to raise or lower the deck. The ground clearance behind the cutterhead should be adjusted to 28–32 mm.
   c. Once the correct height is achieved, tighten the outer nut securely against the inner nut to lock it.



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Note: Adjustment points are located at the rear of the deck, near the rear wheels.

6. Adjust Points A, C, and D (Front and Side Mounts)

   To raise the deck:

   a. Loosen the upper anti-loosening nut.
   b. Adjust to the required height.
   c. Turn the lower nut upward to meet and lock the upper nut.

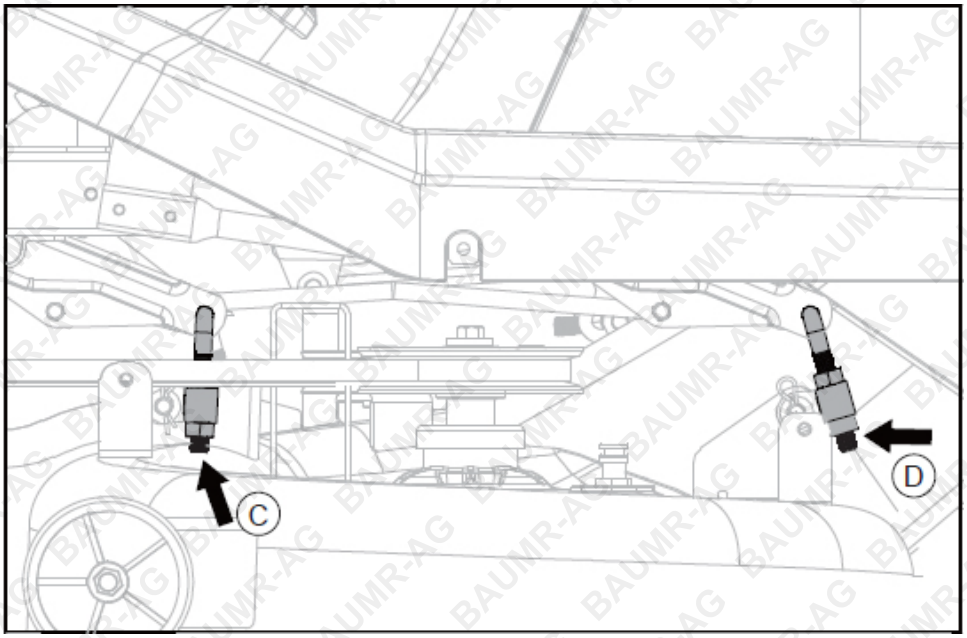
   To lower the deck:

   a. Loosen the lower anti-loosening nut.
   b. Adjust it downward.
   c. Turn the upper nut downward to meet and lock the lower nut.

Recommended Adjustment Sequence

Adjust the cutterhead in this order for best results: **B → C → D → A**

- Final ground clearance targets:
  - Rear deck edge: 28–32 mm
  - Front cutter disc edge: 20–23 mm
- Ensure left and right sides are level.



Do a Front-to-Rear Adjustment of the Cutting Deck

Note: Ensure the cutting deck is already level from side to side before performing this procedure. Refer to Do a Side-to-Side Adjustment of the Cutting Deck.

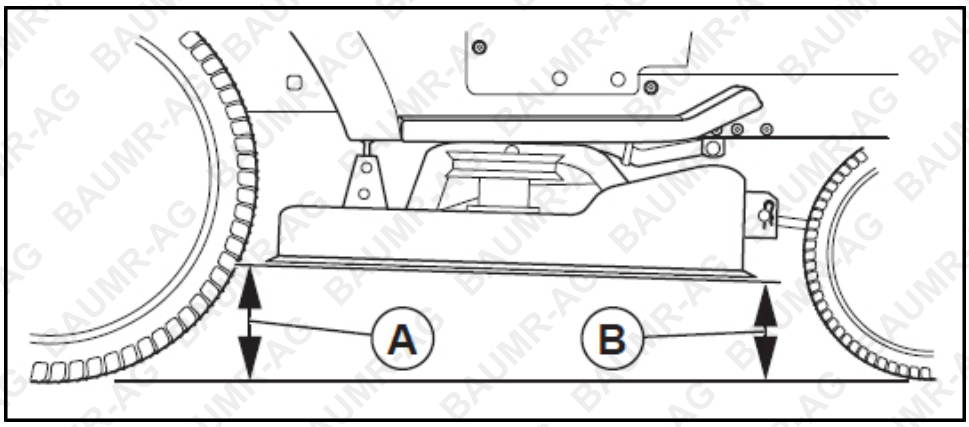
Preparation

1. Check Tyre Pressure. Verify that all four tyres are inflated to the correct pressure. Refer to Tyre Pressure.
2. Park on Level Ground. Position the machine on a flat, even surface.

3. Raise the Cutting Deck. Move the deck to its highest position using the cutting height lever.

Measurement and Adjustment

4. Measure Cutting Heights. Use a ruler or measuring tool to measure the distance from the ground to the bottom edge of the cutting deck at:
   - Point A: The rear of the deck
   - Point B: The front of the deck
5. Adjust Front-to-Rear Height. The front of the deck (Point B) should be 5–10 mm lower than the rear (Point A) to optimise cutting performance.

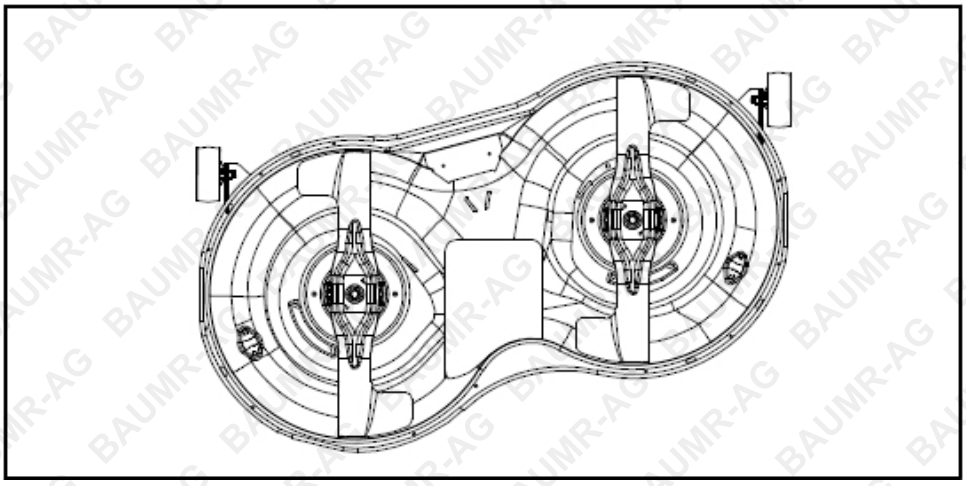


⚠WARNING: The blades under the deck are sharp and can cause serious injury. Always wear protective gloves when working near or under the deck.

Examine the Blades

⚠CAUTION: Damaged or incorrectly balanced blades can cause harm to the machine and pose a safety risk. Replace any damaged blades immediately. Have blunt blades sharpened and balanced by an approved service agent.

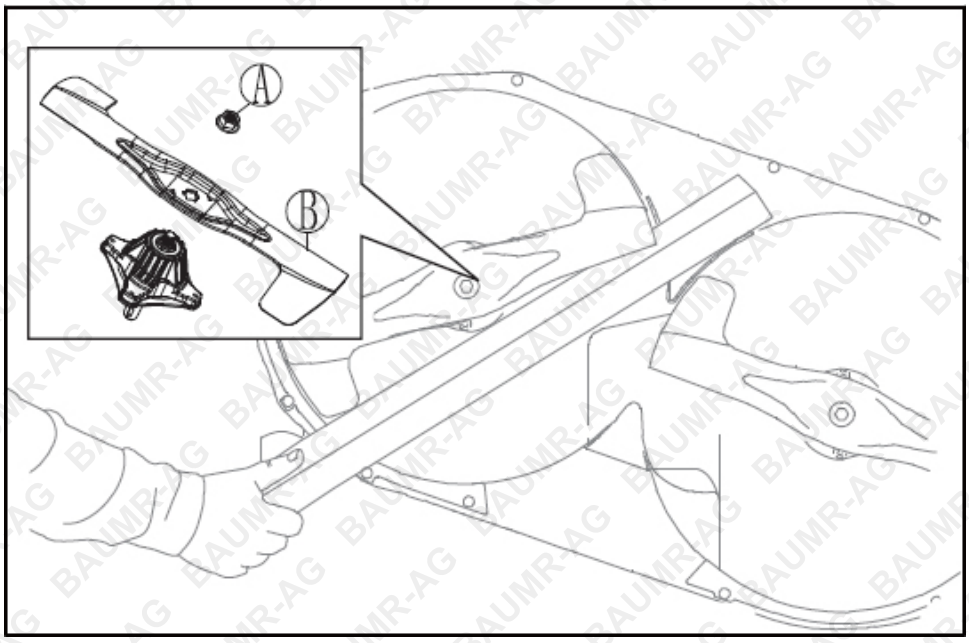
1. Remove the Cutting Deck. Detach the cutting deck from the machine. Refer to Remove and Install the Cutting Deck.
2. Inspect the Blades. Examine each blade carefully for:
   - Cracks, chips, or bends
   - Excessive wear or corrosion
   - Dull or blunt cutting edges
3. Assess the Need for Sharpening or Replacement
   - Replace the blades if they show signs of significant damage.
   - Sharpen and balance the blades if they are blunt but undamaged.
   - This task should be carried out by a qualified technician to ensure correct blade balance.



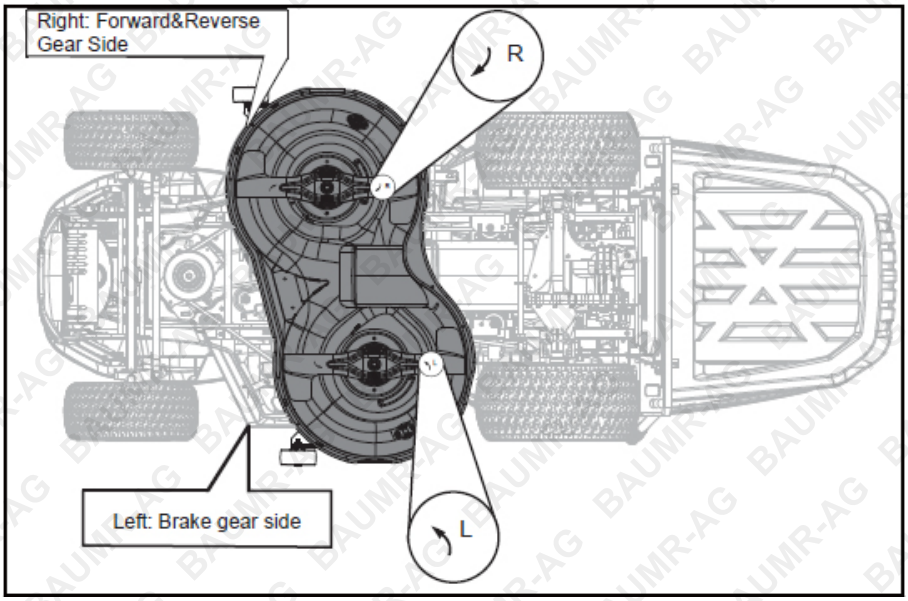
Replace the Blades

⚠CAUTION: Both blades are twisted counterclockwise. The right blade must be installed on the right side, and the left blade on the left side. Incorrect installation or blade type can cause serious injury from ejected objects. Use only the recommended blades listed in To Remove and Install the Cutting Deck. Always wear protective gloves when handling blades.

1. Secure the Blades. Insert a wooden block between the blade and the cutting deck to prevent movement.



2. Remove the Blade.
   a. Loosen and remove the nut (A).
   b. Remove the blade (B).
3. Install the New Blade
   a. Position the blade so that the arrow marked on it points towards the ground.
   b. The blade on the forward gear side rotates clockwise.
   c. The blade on the brake gear side rotates counterclockwise.



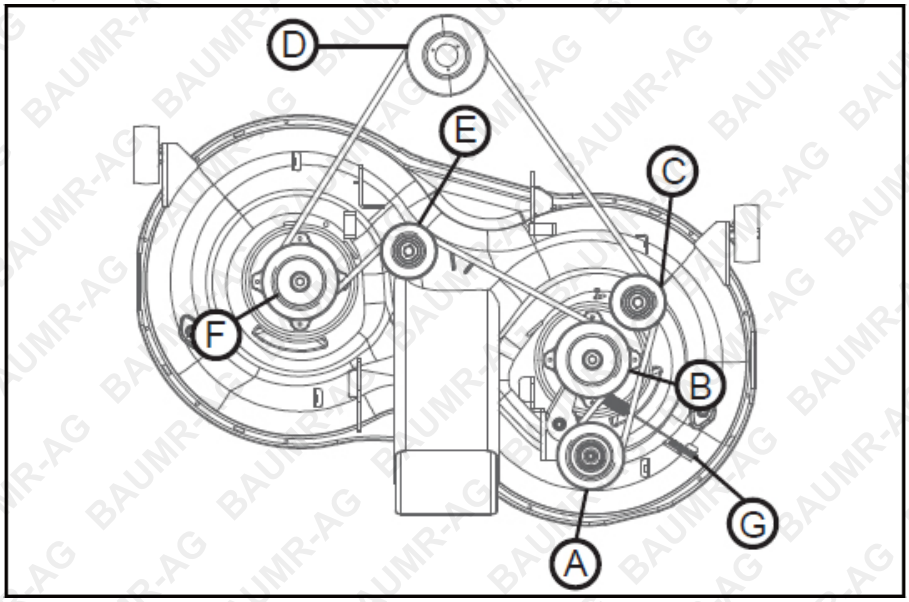
d. Ensure that the bent ends of the blades point in the direction of the cutting deck.

4. Tighten the Nut. Torque the blade mounting nut to 100 Nm to ensure secure installation.

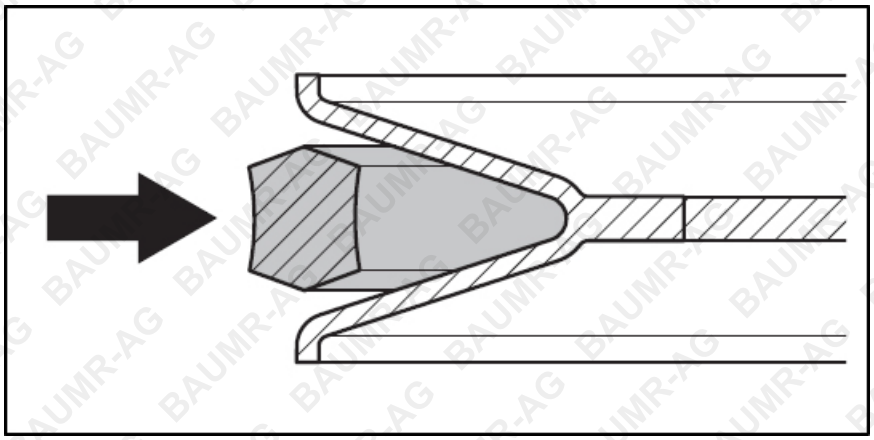
Replace the Cutting Deck Belt

⚠WARNING: Incorrect blade or belt installation can result in serious injury due to ejected objects. Only use the approved blades and belts as specified in To Remove and Install the Cutting Deck. Always wear protective gloves and take safety precautions when handling blades and belts.

1. Remove the Cutting Deck. Refer to Remove and Install the Cutting Deck.
2. Clean the Cutting Deck. Remove any grass, dirt or debris around the bearing housings, blade pulleys, and the top surface of the cutting deck.
3. Disassemble the Belt
   a. First, loosen the tension spring at point G.
   b. Then, remove the belt in the following order: **A → B → C → F → E → D**.
   c. Once the belt is fully removed, discard the worn belt if replacement is necessary.



4. Install the New Belt
   a. Install the new belt by reversing the removal sequence.
   b. Ensure the belt is correctly seated in all belt pulleys.



⚠CAUTION: The belt must not be twisted during installation. Refer to the belt routing decal on the cutting deck to confirm the correct layout.

Adjust the Anti-Scalp Wheels

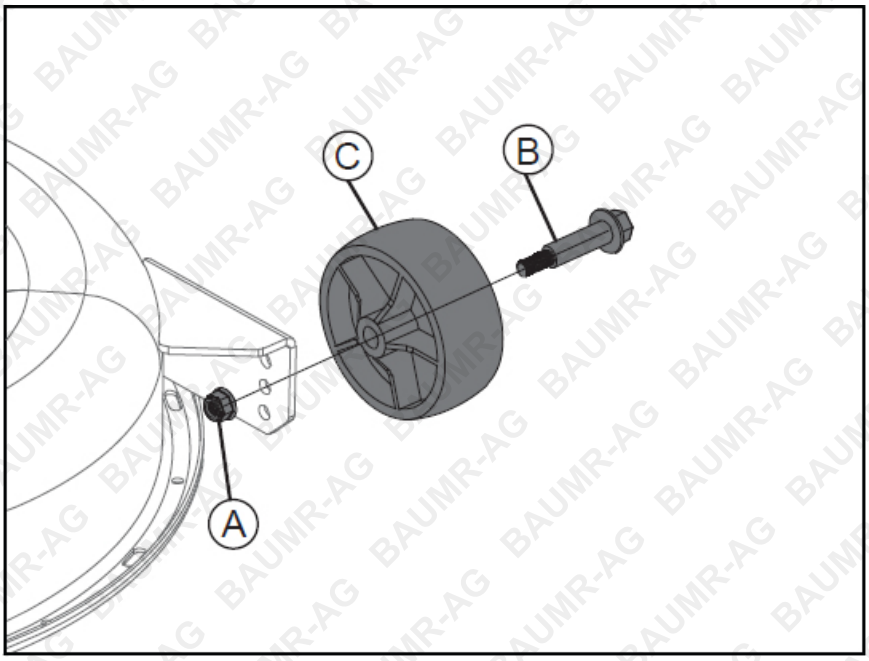
The anti-scalp wheels help keep the cutting deck at the correct level above the ground, reducing the risk of scalping the lawn over uneven terrain. They are adjusted correctly when they are slightly off the ground at the desired cutting height.

Adjustment Procedure

1. Park on a Level Surface. Stop the engine and ensure the product is parked on a flat and stable surface.
2. Set the Desired Cutting Height. Adjust the cutting deck to your required mowing height. Refer to Set the Cutting Height.
3. Remove the Wheel Assembly.

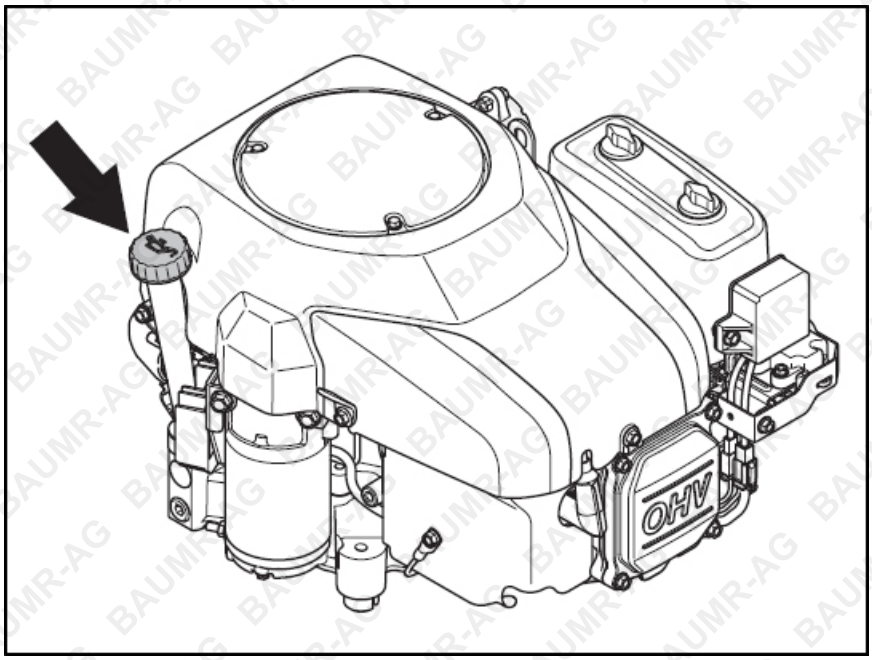
   Using the correct tools, remove the:

   – Nut (A)
   – Bolt (B)
   – Anti-scalp wheel (C)
4. Reinstall at a New Height Position. Refit the anti-scalp wheel, bushing, bolt, washer, and nut into one of the three mounting holes, depending on your preferred deck height.
5. Repeat for All Wheels. Ensure all anti-scalp wheels are adjusted consistently using the same method for an even mowing result.

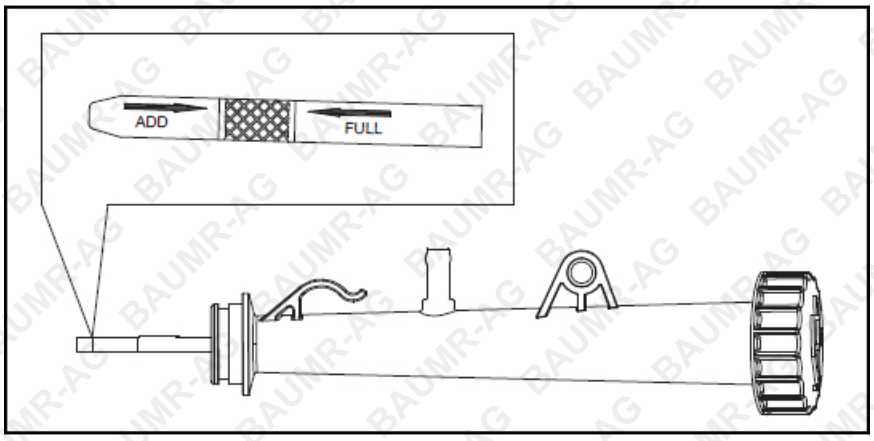


Check the Engine Oil Level

1. Park the Product. Ensure the product is parked on level ground and the engine is switched off.
2. Open the Engine Cover. Lift the cover to access the engine compartment.
3. Remove the Dipstick. Loosen the dipstick and pull it out completely.



4. Clean the Dipstick. Wipe off any oil using a clean cloth or paper towel.
5. Reinsert the Dipstick. Push the dipstick back into position and tighten it securely.
6. Remove and Read the Dipstick. Loosen and pull the dipstick out again to check the oil level.
7. Check the Oil Level Range. The oil level must be between the ADD and FULL marks on the dipstick.
   - If the level is near the ADD mark, add oil until it reaches the FULL mark.
   - Do not overfill.



8. Top Up the Oil. Add oil through the dipstick tube. Pour slowly to avoid overfilling.
9. Final Check. Tighten the dipstick properly, then:
   a. Start and let the engine idle for approximately 30 seconds.
   b. Turn off the engine and wait 30 seconds.
   c. Re-check the oil level and top up if necessary.

Replace the Engine Oil

Regular engine oil changes ensure optimal engine performance and longevity. Follow the steps below for safe and proper oil replacement.

Preparation

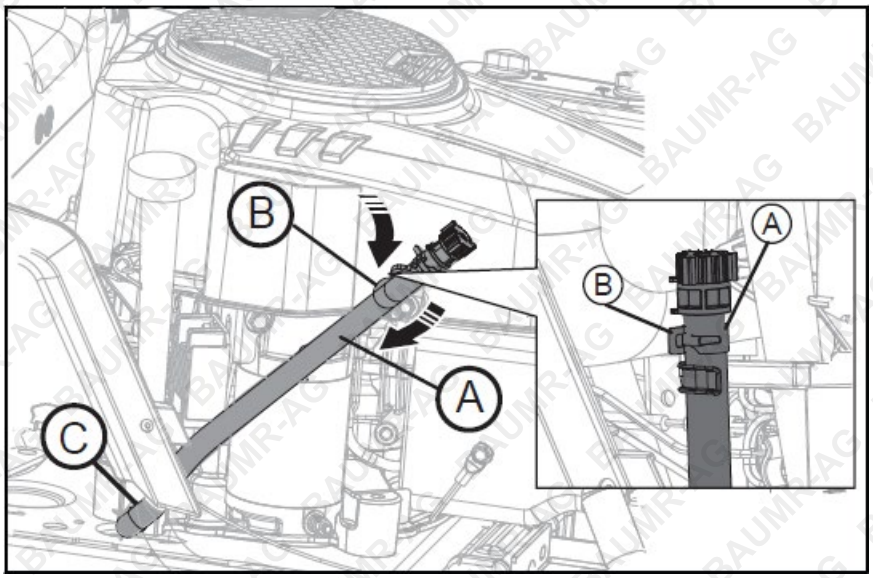
- If the engine is cold, start it and let it run for 1–2 minutes to warm the oil, making it easier to drain.
- Do not exceed 2 minutes of operation — hot oil can cause serious burns.
- Allow the engine to cool if it has been running for more than 1–2 minutes.

⚠ WARNING: Hot engine oil can cause burn injuries. Use caution when handling hot engine components.

⚠ WARNING: If engine oil comes in contact with skin, wash immediately with soap and water.

Draining the Oil

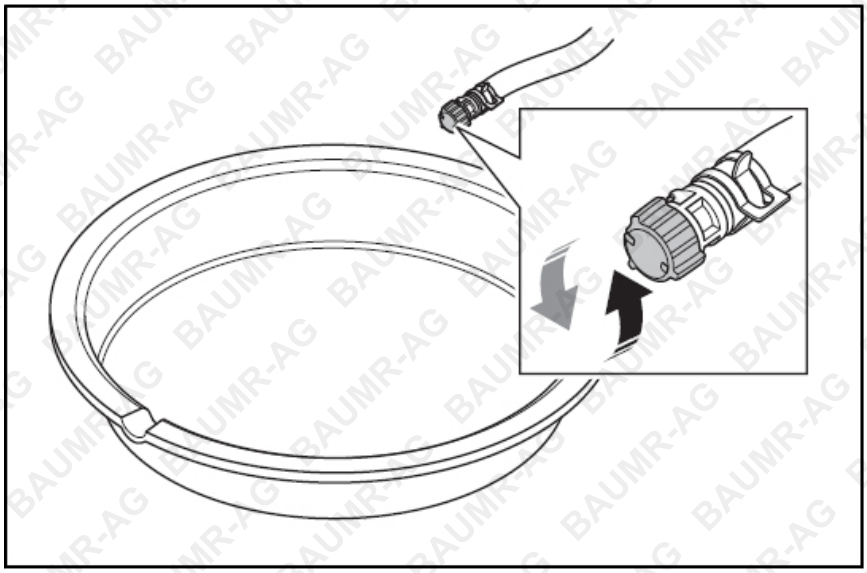
1. Remove the Oil Drain Hose. Take the oil drain hose (A) out of the holder (B) and guide it through the gap (C).



2. Place a Container. Position a suitable container beneath the oil drain plug to catch the draining oil.
3. Remove the Dipstick. Loosen and pull out the dipstick to allow oil to drain more smoothly.

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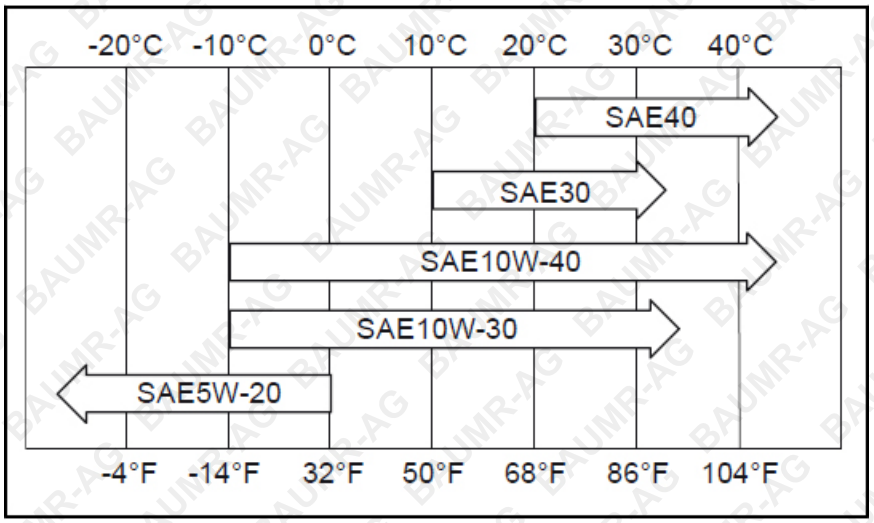
4. Drain the Oil. Remove the end cap on the oil drain valve at the end of the hose. Let the engine oil completely drain into the container.



5. Reattach the End Cap. Once drained, secure the end cap back onto the oil drain valve.

Refilling and Final Steps

6. Replace the Oil Filter (if applicable). If your engine has an oil filter, replace it. Refer to Replace the Oil Filter for instructions.
7. Add New Oil. Slowly pour new engine oil into the dipstick tube. Use oil with viscosity appropriate for the ambient temperature.



⚠ CAUTION: Do not mix different types or brands of oil.

8. Install the Dipstick. Insert and tighten the dipstick securely.
9. Dispose of Used Oil. Dispose of the used engine oil and filter properly at an approved recycling facility.

Replace the Oil Filter

⚠WARNING: Wear protective gloves. If engine oil comes into contact with your skin, wash thoroughly with soap and water.

1. Drain the engine oil. Refer to Replace the Engine Oil.
2. Turn the oil filter anti-clockwise to remove it.
3. Lightly lubricate the rubber seal of the new oil filter using fresh engine oil.
4. Screw on the new oil filter by hand until the rubber seal contacts the base, then tighten it by a further half turn.
5. Refill the engine with new engine oil. Refer to Replace the Engine Oil.
6. Start the engine and let it idle for 3 minutes.
7. Stop the engine and check for oil leaks around the filter.
8. Top up with engine oil to compensate for the amount held in the new filter.

Lead-Acid Battery Care and Maintenance

Top 3 Battery Care Requirements

1. **Charge battery before first use**. The battery may arrive with some charge, regardless of this the battery must be charged on the initial charge and for each subsequent charge.



2. **Charge battery immediately when it is depleted.** Do not store a depleted battery. This will permanently impact the life of the battery. If the battery is going to be stored for a period of time, fully charge the battery before storing.



To ensure the battery maintains optimum performance, follow the guidelines outlined below.

- For best results, charge batteries in temperatures between 10°C and 30°C
- When battery is charged, disconnect the charger from the power supply and remove the battery from the charger.
- Inspect the terminals, screws, clamps and cables for breakage, damage, or loose connections. These should be clean, tight, and free of corrosion.
- Use only with the battery charger specified by the manufacturer.
- Ensure that the battery charger electrical cord is not subjected to damage or stress. Do not operate the battery charger if it has a damaged electrical cord or plug.
- Do not use the charger in wet areas or expose it to rain or water.
- Keep the battery clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
- Apply a thin coating of high temperature grease to posts and cable connections for added protection.
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. Exploding batteries can propel debris and chemicals.
- Do not open the battery – danger of short-circuiting and/or explosion.
- Do not attempt to destroy or disassemble the battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – protect the battery against heat, for example, direct sunlight and fire. Do not store batteries in vehicles or locations subject to heat.
- Explosion hazard – do not open and/or short-circuit the battery.
- Poison hazard – battery leakage (liquid ejection). Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact accidentally occurs, immediately seek medical attention, and flush with water. If liquid contacts eyes, immediately seek medical attention, flush with clean water for at least 10 minutes. Liquid ejected from the battery may cause irritation or burns.
- Dispose of non-serviceable batteries in an environmentally responsible manner and according to local regulations.

Failure to adhere to the requirements above may result in the battery becoming inoperative or battery life being reduced. In extreme cases or abuse, battery overheating, or fire may result.

Troubleshooting

Problem	Cause	Action
The starter motor does not crank the engine.	The parking brake is not applied.	Apply the parking brake.
	The cutting deck is engaged.	Disengage the cutting deck.
	The main fuse is blown.	Replace the main fuse.
	The ignition lock is broken.	Speak to your servicing dealer.
	The connection between the cable and the battery is bad.	Make sure that the battery is connected correctly.
	The battery is too weak.	Refer to battery replacement.
	The starter motor is damaged.	Speak to your servicing dealer.
The engine does not start when the starter motor cranks the engine.	There is no fuel in the fuel tank.	Fill the fuel tank with fuel.
	The spark plug is damaged.	Examine the spark plug. Replace it if necessary.
	The ignition cable is damaged.	Speak to your servicing dealer.
	There is dirt in the carburettor or fuel line.	Speak to your servicing dealer.
	The fuel filter is clogged.	Replace the fuel filter.
The engine does not run smoothly.	The spark plug is damaged.	Examine the spark plug. Replace it if necessary.
	The carburettor is incorrectly set.	Speak to your servicing dealer.
	The air filter is clogged.	Clean or replace the air filter.
	The fuel tank vent is blocked.	Speak to your servicing dealer.
	There is dirt in the carburettor or fuel line.	Speak to your servicing dealer.
	The fuel filter is clogged.	Replace the fuel filter.
The engine has no power.	The air filter is clogged.	Clean or replace the air filter.
	The spark plug is damaged.	Examine the spark plug. Replace it if necessary.
	There is dirt in the carburettor or fuel line.	Speak to your servicing dealer.
	The throttle cable is incorrectly adjusted.	Speak to your servicing dealer.
The engine stops when you try to operate the product rearward.	The reverse operation system (ROS) is not engaged.	Engage the reverse operation system (ROS).
The transmission does not have sufficient power.	The transmission air intake or the cooling fins are blocked.	Speak to your servicing dealer.
	The fan on the transmission is damaged.	Speak to your servicing dealer.
	There is no oil in the transmission or the oil level is too low.	Speak to your servicing dealer.

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Problem	Cause	Action
	The drive system is disengaged.	Engage the drive system.
The battery does not charge.	The battery is damaged.	Replace the battery.
	The connection at the battery terminals is bad.	Make sure that the battery is connected correctly.
There is vibration in the product.	The blades are loose.	Tighten the blades.
	The blades are incorrectly installed.	Make sure that the blades are installed correctly.
	The blades are not balanced.	Examine the blades for wear and damage.
	The engine is loose.	Speak to your servicing dealer.
	The belt pulleys are skew or loose.	Speak to your servicing dealer.
The cutting result is unsatisfactory.	The blades are blunt.	Examine the blades for wear and damage.
	The grass is long or wet.	Refer to good cutting practices.
	The cutting deck is not parallel.	Adjust the parallelism of the cutting deck.
	There is grass blockage in the cutting deck.	Clean the cutting deck.
	The air holes in the cutting deck are clogged.	Clean the cutting deck.
	There is dirt around the blade pulleys.	Clean the cutting deck.
	The tyre pressure is different on the right and left sides.	Ensure all four tyres have correct pressure.
	The product is operated at a too high speed.	Refer to technical data.
	The engine speed is too low.	Refer to technical data.
	The cutting deck belt slips.	Speak to your servicing dealer.
	The cutting deck belt is worn or damaged.	Replace the cutting deck belt.
The blades of the cutting deck do not start to rotate when the cutting deck is engaged.	There is no grass catcher, or other accessory, installed to the grass discharge (if applicable).	Install the grass catcher or applicable accessory.

Transportation, Storage and Disposal

Transportation

- The product is heavy and may cause crush injuries. Take care when loading or unloading from a vehicle or trailer.
- Use an approved trailer for transporting the product.
- Ensure you're familiar with local road traffic laws before transporting the product on public roads.
- Raise the cutting deck to its highest position to ease loading.

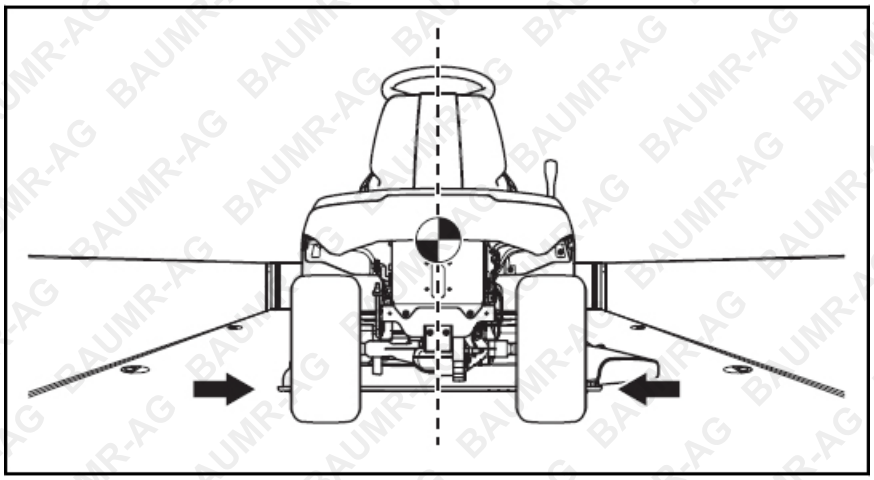
To Safely Secure the Product for Transport

⚠ WARNING: Read and understand the safety instructions before securing the product.

⚠ WARNING: The parking brake alone is not sufficient to secure the product during transport.

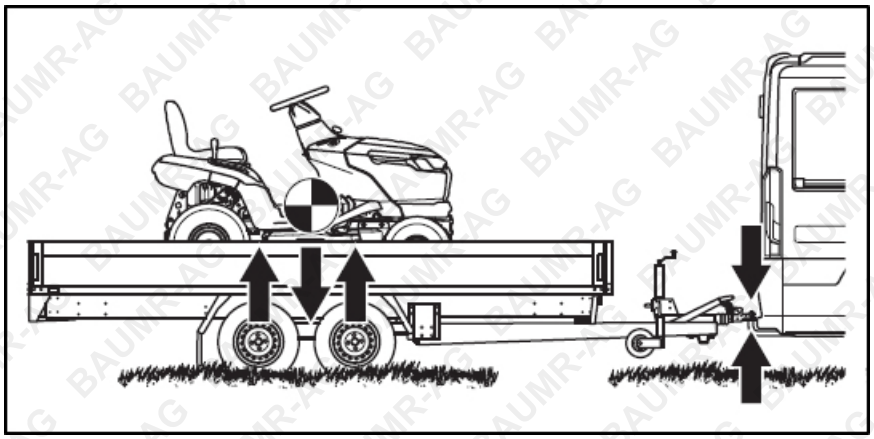
Equipment required: 2 approved straps and 4 wheel chocks.

1. Park the product at the centre of the load area.

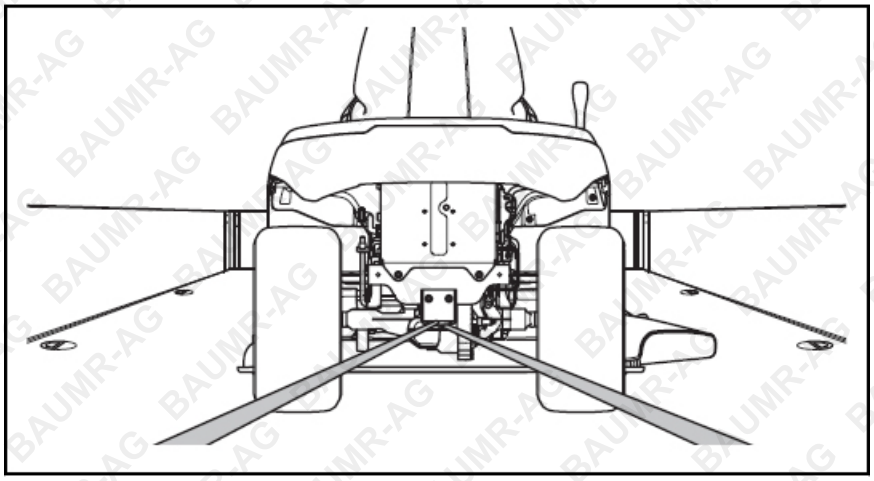


⚠ CAUTION: If transporting in an enclosed vehicle, allow the engine to cool before covering.

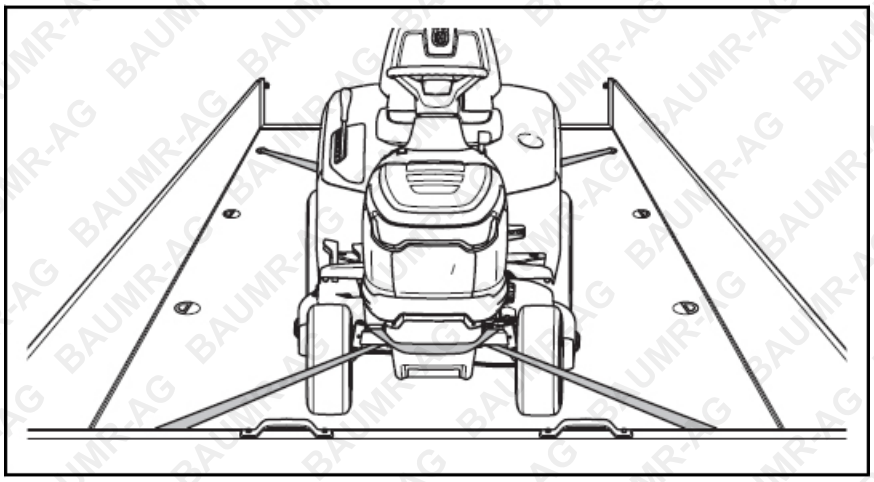
2. Ensure the centre of gravity is aligned over the trailer axle. If using a trailer, verify the correct vertical force on the tow bar.



3. Apply the parking brake.
4. Remove all loose items.
5. Attach the first strap to the tow bar.



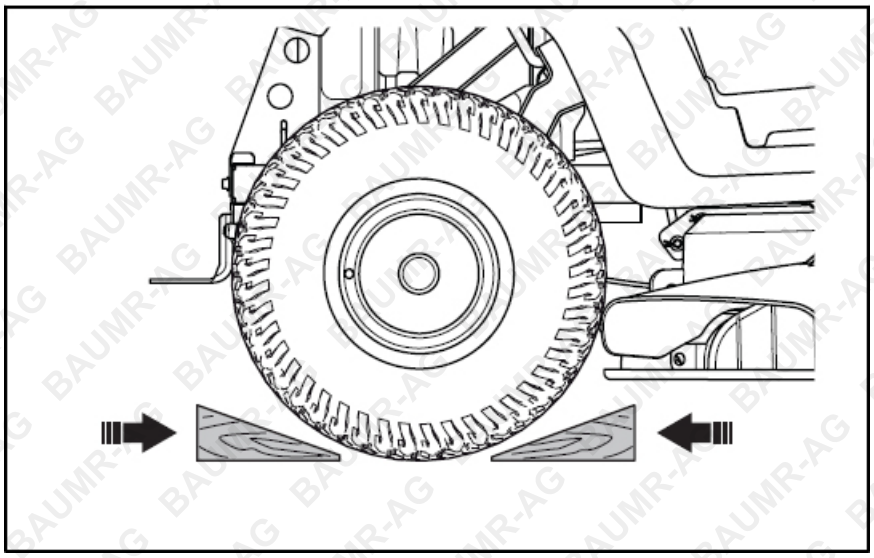
6. Tighten the strap rearwards to secure the product.
7. Loop the second strap around the front axle.



8. Attach the strap to the front of the load area.
9. Tighten the strap forward to secure the product.

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10. Place chocks in front of and behind the rear wheels.



Storage

Prepare the mower for storage:

- Do this at the end of the season or before periods of non-use longer than 30 days.
- Fuel left in the tank for extended periods can gum up the carburettor, reducing engine performance.

To prevent fuel issues during storage:

- Add a stabiliser to the fuel (not required with alkylate petrol).
- Do not switch from standard petrol to alkylate if already using standard fuel, as it may harden rubber components.
- Follow stabiliser mixing ratios per manufacturer instructions.
- Run the engine for at least 10 minutes after adding stabiliser to ensure it reaches the carburettor.

⚠ **WARNING: Do not store the product indoors or in poorly ventilated areas with fuel in the tank. Fuel vapours can ignite near flames or sparks (e.g., from boilers, water heaters or clothes dryers).**

⚠ **WARNING: Remove grass, leaves, and flammable materials before storage. Allow the product to cool.**

Before storing:

- Clean the mower. Repair any paint damage to prevent corrosion.
- Inspect for damage or loose fasteners and correct as necessary.
- Remove the battery, clean it, recharge it, and store in a cool, dry place.
- Change the engine oil and dispose of it properly.
- Drain the fuel tank. Run the engine until it stops to clear the carburettor.

⚠ **CAUTION: Do not drain fuel if stabiliser has been added.**

- Close the fuel shut-off valve.

- Remove spark plugs and add ~1 tablespoon of oil to each cylinder. Turn the engine shaft by hand to distribute oil, then reinstall the plugs.
- Lubricate grease nipples, joints, and axles.
- Store in a dry, clean location and cover the product for protection.
- Protective covers are available from your dealer.

Disposal

- Never dispose of chemicals on the ground. Always use an approved disposal or recycling centre.
- When the mower reaches end of life, take it to a dealer or approved recycling facility.
- Oil, filters, fuel, and batteries can be harmful to the environment—follow all local regulations.
- Do not dispose of batteries in household waste.
- Take batteries to a recycling facility or service agent.

Service

- Have the product checked annually at an authorised service centre to ensure safe and optimal performance during peak season. The best time for servicing or overhauling the product is during the off-season.
- When ordering spare parts, provide the purchase year, model, type, and serial number.
- Always use original spare parts.

Specifications

Power Type	Petrol
Engine Type	Ducar DV452
Engine Displacement	452cc
Transmission	Hydrostatic
Fuel Type	Regular Unleaded 95+ RON
Fuel Tank Capacity	7.5L
Starting System	Electric start
Cutting Width	38”
Cutting Height	30-90mm
Front Wheels	15 x 6.00x6
Rear Wheels	18 x 8.50-8
Max cutting speed	9km/h
Turning Circle Radius	500mm
Noise Level	<100dB(A)
Towing Capacity	100kg

Note: Assembly Required

⚠**WARNING: Use only manufacturer-approved cutting decks. Unapproved cutting decks may eject objects at high speed, causing serious injury.**

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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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