## Operator's Manual WG4815E/968999120

WG4815E/968999120 WG3613E/968999117 WG3613BF/968999365 WG3613EC/968999756



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

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### WARNING!

Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate the mower.

Each person operating the mower must be of sound mind and body and must not be under the influence of any mind altering substance.



#### WARNING!

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Congratulations

Thank you for purchasing a Husqvarna Walk-Behind mower. This machine is built for superior efficiency to rapidly mow primarily large areas. A control panel easily accessible to the operator and a transmission regulated by steering controls both contribute to the machine's performance.

This manual is a valuable document. Read the contents carefully before using or servicing the machine. Following the instructions (use, service, maintenance, etc.) is important for the safety of the operator and others. It can also considerably increase the life span of the machine and increase its resale value.

If you sell your machine, be sure to give the operator's manual to the new owner.

The final chapter of this operator's manual provides a Service Journal. Ensure that service and repair work are documented. A well-kept service journal reduces service costs for the maintenance and affects the machine's resale value. Take the operator's manual along when the machine is taken to your dealer for service.

### General

In this operator's manual, left and right, backward and forward are used in relation to the machine's normal driving direction.

Continuous dedication to improve our products require that specifications and design are subject to change without notice.

#### **Driving and Transport on Public Roads**

Check applicable road traffic regulations before transporting on public roads. If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored. DO NOT operate this machine on public roadways.

### Operating

This machine is constructed only for mowing grass on lawns and even ground without obstacles such as stones, tree stumps, etc. The machine can also be used for other tasks when equipped with special accessories provided by the manufacturer. Operating instructions for the accessories are provided with delivery. All other types of uses are incorrect. The manufacturer's directions concerning operation, maintenance, and repairs must be carefully followed.

Lawn mowers and all power equipment, can be potentially dangerous if used improperly. Safety requires good judgement, careful use in accordance with these instructions and common sense.

The machine must only be operated, maintained, and repaired by persons familiar with the machine's special characteristics and who are also knowledgeable about the safety instructions. Use only approved repair parts to maintain this machine.

Accident prevention regulations, other general safety regulations, occupational safety rules, and traffic regulations must be followed without fail.

Unauthorized modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage.

### **Good Service**

Husqvarna's products are sold through out the world and only in specialized retail stores with complete service. This ensures that you as a customer receive only the best support and service. Before the product is delivered, the machine has, for example, been inspected and adjusted by your retailer. See the certificate in the Service Journal in this operator's manual.

When you need spare parts or support in service questions, warranty issues, etc., please consult the following professional:

This Operator's Manual belongs to the machine with the manufacturing number:	Engine	Transmission

#### Manufacturing Number

The machine's manufacturing number can be found on the printed plate affixed to the left in the engine compartment. Stated on the plate, from the top are:

- The machine's type designation (I.D.).
- The manufacturer's type number (Model).
- The machine's serial number (Serial no.)

Please have the type designation and serial number available when ordering spare parts.

The engine's manufacturing number is stamped on a barcode decal. The decal is placed on the left side of the crankcase.

The plate states:

- The engine's serial number (E/NO).
- The engine's type designation (Code)

Please have these available when ordering spare parts.

# SYMBOLS AND DECALS

These symbols are found on the machine and in the operator's manual. Study them carefully so that you know what they mean.



### WARNING!

#### 

Used in this publication to notify the reader of a risk of **personal injury or death**, particularly if the reader should neglect to follow instructions given in the manual.

#### **IMPORTANT INFORMATION**

Used in this publication to notify the reader of a risk of **material damage**, particularly if the reader should neglect to follow instructions given in the manual. Used also when there is a potential for misuse or misassembly.



Fast







Fuel





Warning!

CE conformity marking. Only for European market



Slow

Battery acid is corrosive, explosive and flammable



Warning! Rotating blades, keep away from the discharge deck



Do not touch rotating parts

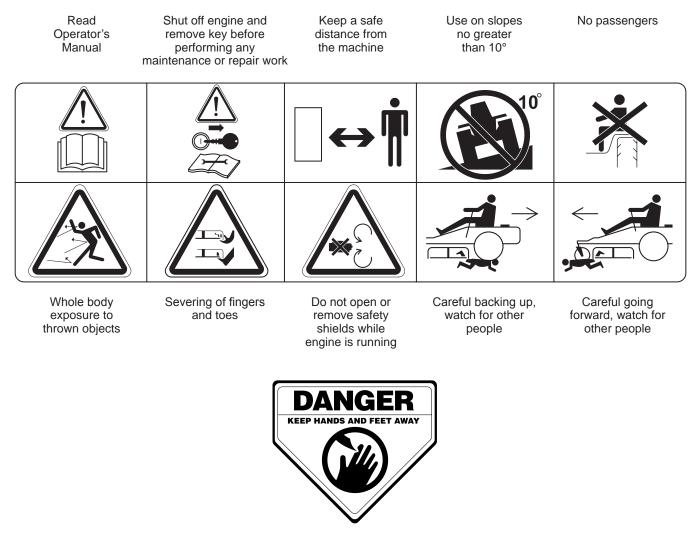


Use protective glasses



Use protective gloves

# SYMBOLS AND DECALS



Moving sharp blades under cover

# SAFETY

#### WARNING!

THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

These instructions are for your safety. Read them carefully.

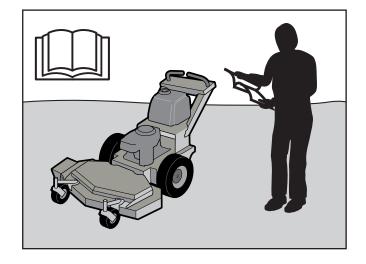
### **General Operation**

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Always look down and behind during reverse maneuvers. Look for both large and small obstacles.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working
- Slow down before turning.
- Never leave a running machine unattended.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge chute.
- Operate machine only in daylight or good artificial light.

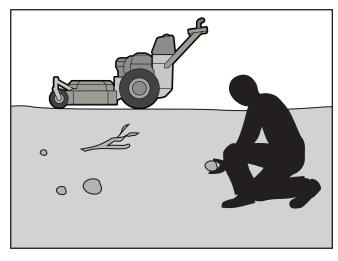


### WARNING!

This symbol means that important safety instructions need to be emphasized. It concerns your safety.



Read the operator's manual before starting the machine



Clear the area of objects before mowing

8011-631

# SAFETY

- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Never take passengers. The machine is only intended for use by one person
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Anyone who operates this machine must first read and understand this Operation Manual. Local laws may regulate the age of the user.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust or engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.



Never take passengers

8011-632



### WARNING!

Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects, or other reproductive system damage. The engine exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.

### Personal Safety Equipment



### WARNING!

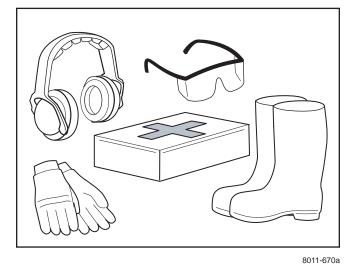
When using the machine, approved personal protective equipment (shown in illustrations) shall be used. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your retailer for help in choosing the right equipment.

- Make sure that you have first aid equipment close at hand when using the machine.
- Never use the machine when barefoot. Always wear protective shoes or boots, preferably with steel toe caps.
- Always wear approved protective glasses or a full visor when assembling or driving.
- Always wear gloves when handling the blades.
- Never wear loose clothing that can get caught in moving parts.
- Use ear protectors to avoid damage to hearing.

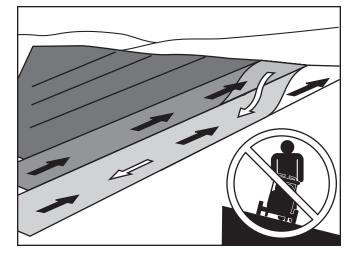
### **Slope Operation**

Slopes are a major factor related to loss of control or machine tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot reverse up the slope or if you feel unsure, do not mow it.

- Mow up and down slopes (10 degrees maximum), not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop while on the slope.
- Do not mow on wet grass. Tires may lose traction.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.



Personal protective equipment



Mow up and down, not side to side

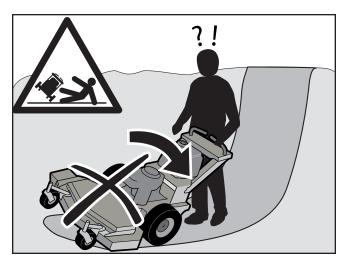
8011-634

### WARNING!

Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across any slopes.

# SAFETY

- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine.
- Do not use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.



Be extra cautious when driving on slopes

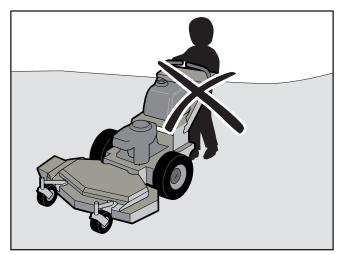
Never allow children to operate the machine

8011-635

#### Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.



8011-636



Keep children away from the work area

8011-633

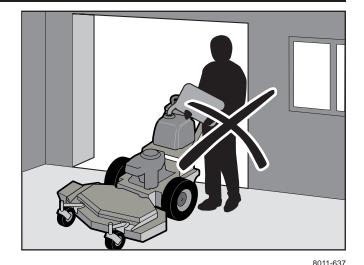
### WARNING!

The engine must not be started when the driver's floor plate or any protective plate for the mower deck's drive belt is removed.

### Safe Handling of Gasoline

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool at least two (2) minutes before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
- Before you begin refueling, minimize the risk of static electricity by touching a metal surface.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from the vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.
- Do not start the engine near spilled fuel.
- Never use gasoline as a cleaning agent.
- If leaks arise in fuel system, engine must not be started until problem has been resolved.
- Check the fuel level before each use and leave space for the fuel to expand, as the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.



Never fill the fuel tank indoors

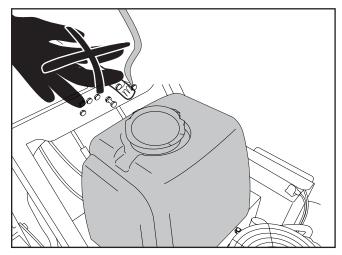


### WARNING!

The engine and the exhaust system become very hot during operation.

There is risk for burns if touched.

Allow engine and exhaust system to cool at least two (2) minutes before refueling.



Do not smoke when using the machine

8011-777

### **General Maintenance**

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components.
- Ensure that nuts and bolts, especially the fastening bolts for the blade attachments, are properly tightened, torqued and that the equipment is in good condition.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components.



Never drive the machine in an enclosed space

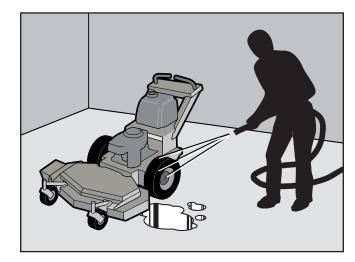


# SAFETY

- Use protective goggles.
- Ensure that the fuel filler cap is mounted tightly and no flammable substances are stored in an open vessel.
- Never use the machine indoors or in spaces lacking proper ventilation. The exhaust fumes contain carbon monoxide, an odorless, poisonous, and lethal gas.
- Stop and inspect the equipment if you run over or into anything. If necessary, make repairs before starting.
- Never make adjustments with the engine running.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer. Only use approved repair parts for the machine.
- The blades are sharp and can cause cuts and gashes. Wrap the blades or use protective gloves when handling them.
- The mulch blades should only be used in familiar areas when higher quality mowing is desired.
- Reduce the risk of fire by removing grass, leaves, and other debris that may have accumulated on the machine. Allow the machine to cool before putting it in storage.
- Regularly clean deck and underside of deck, avoid spraying engine and electrical components with water.

### Transport

- The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer.
- Use an approved trailer to transport the machine. Activate the parking brake, turn off the fuel supply, and fasten the machine with approved fastening devices, such as bands, chains, or straps, when transporting.
- Check and abide by local traffic regulations before transporting the machine on any road.
- Do not tow this machine, it may cause damage to the drive system.

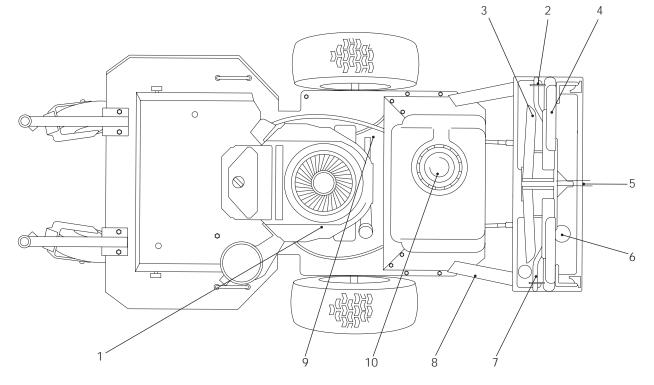


Clean the machine regularly

8011-639

This operator's manual describes the Husqvarna Walk-Behind Mower. The machine is fitted with a Kawasaki four-stroke overhead valve engine. Transmission from the engine is made via two V-belts, one for each wheel. Using the left and right steering controls, the speed of the rear wheels is regulated for steering the machine.

### **Control Locations**



- 1. Recoil Starter Grip
- 2. Ignition Switch
- 3. Motion Control Levers
- 4. Operator Presence Levers
- 5. Gear Shift Lever

- 6. Throttle/Choke Control
- 7. Neutral Bail
- 8. Blade Engagement Lever
- 9. Fuel Shut Off Valve
- 10. Fuel Cap/Tank

# CONTROLS

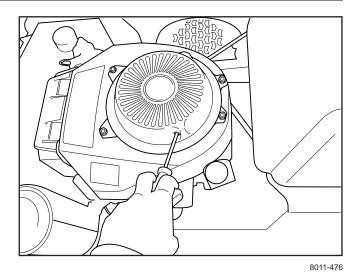
### **Recoil Starter Grip**

#### **IMPORTANT INFORMATION**

Do not let recoil cord snap back by itself. This may damage the cord or the recoil starter assembly.

Pull the recoil starter grip slowly until you feel compression, then pull it briskly.

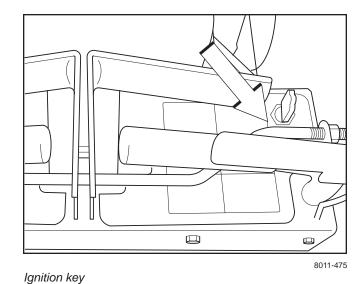
Normally this engine will not backfire. If you get backfires, contact your Husqvarna dealer for service.



Recoil starter grip

### **Ignition Switch**

The ignition key switch is placed on the control panel.



WARNING!

The machine can turn very rapidly if one steering control is moved much further forward than the other.

### **Motion control levers**

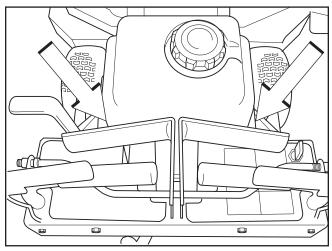
The machine's speed and direction are continuously variable using the two motion control levers.

When both controls are in the neutral position, the machine stands still. The controls can be locked in neutral position by the Neutral bail

By moving both controls an equal amount the machine moves in a straight line forward.

In order, for example, to turn right while moving forward, move the right control towards the handle (neutral position). The rotation of the right wheel is reduced and the machine turns to the right.

To stop forward travel pull levers back.



Motion control levers

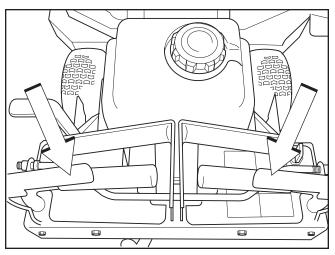
# CONTROLS

### **Operator Presence Levers**

Located on the handle, the Operator Presence System levers serve as an additional safety feature. An electrical interlock safety system is activated by depressing either one or both of the Operator Presence Levers at the handle grips.

Releasing both Operators Presence Levers while mowing or transporting will break the electrical circuit and cause the engine and mower to stop. The mower will not stop immediately after releasing the OP levers and some travel occurs.

When the blades are engaged or neutral lock bail has not locked the drive levers, one or both levers must be pressed against the handle for the engine to remain running.



Motion control levers

8011-478

### Gear shift lever

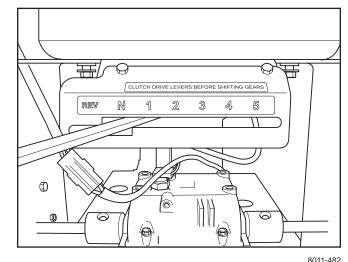
Gear shift lever has 5 gear speeds. There are also neutral and reverse gears.

Grip the motion control levers before shifting gears. This will clutch the gearbox.

**Throttle Control and Choke Control** 

the max RPM setting to the choke position.

engine with a richer fuel mixture.



Gear shift lever in the neutral position

Choke control/throttle control lever

3011-482

8061-682

### Throttle Control

**Choke Control** 

The throttle control regulates the engine speed and thereby the rate of rotation of the blades, assuming the control for engaging the mower deck is pulled forward.

The choke control is used for cold starts to provide the

The choke control is combined with the throttle control. To engage the choke, the throttle control is moved past

Do not use the choke when starting a warm engine.

In order to increase or decrease the engine speed, the control is moved forward or backward respectively.

Avoid idling the engine for long periods, as there is a risk of the spark plugs fouling.

For best mower performance, USE FULL THROTTLE WHEN MOWING.

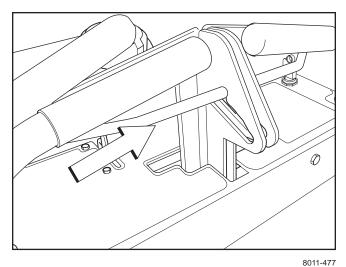
18 - Husqvarna

### **Neutral Bail**

The neutral bail keeps the unit from moving while idling. The bail will lock the drive levers in neutral position and must be activated when starting the engine.

#### **Parking Brake**

The parking brake on gear drive machines is applied when neutral bail is in lock position.



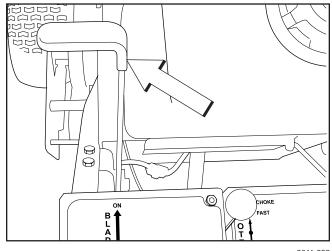
Neutral bail

### **Blade Engagement Lever**

The blade engagement lever is on the left support by the control panel.

In order to engage the blades, push the lever forward. The blades are disengaged when the lever is pulled backward.

The blade engagement lever needs to be adjusted so the lever does not come in contact with control panel when the lever is in the off position.



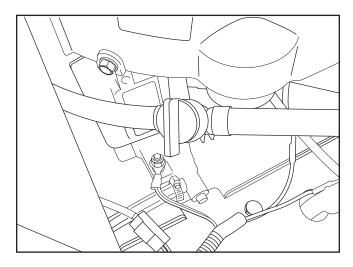
Blade engagement lever

8011-682

### Refueling

### **Fuel Shut-off Valve**

The fuel shut off valve is placed on the fuel line below the fuel tank. The valve has two positions; ON and OFF. The illustration shows the valve in the closed (OFF) position.



Fuel shut off valve - closed (OFF)

# CONTROLS

### Fuel Tank

The machine has one fuel tank. The tank volume is 5.3 gallons / 20 liters.

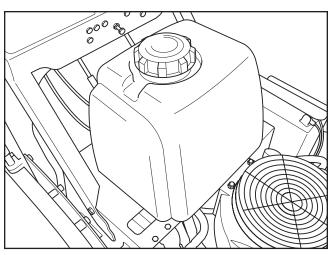
The engine should run on a minimum of 87-octane unleaded gasoline (no oil mix). Also see Technical Data concerning methanol and ethanol fuels.

When operating in temperatures below 32° F. (0° C.), use fresh, clean winter grade gasoline to help insure good cold weather starting.



### WARNING!

Gasoline is highly flammable. Observe caution and fill the tank outdoors (see the safety instruction).



Fuel tank

8011-418



### WARNING!

The engine and the exhaust system, become very hot during operation.

Risk for burns if touched.

Allow engine and exhaust system to cool at least two (2) minutes before refueling

### WARNING!

Fill to bottom of filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

### Accessories

For mulching, there is a BioClip attachment available. This is mounted underneath the mower deck and consists of control plates and BioClip blades.

### IMPORTANT INFORMATION

Experience indicates that alcohol blended fuels (called gasohol, ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel the next season. See Storage Instructions for additional information. Never use engine or carburetor cleaners in the fuel tank or permanent damage may occur.

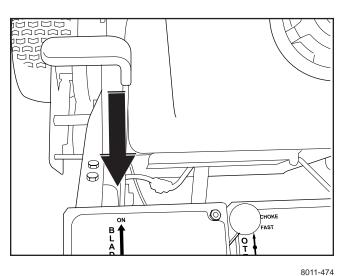
### **Before Starting**

- Read the sections on Safety and Controls before starting the machine.
- Perform the daily maintenance before starting (see Maintenance Schedule).
- Check that there is sufficient fuel in the fuel tank. The following conditions must be fulfilled before the engine can be started:
- The control for engaging the blades must be in disengaged position.



### WARNING!

Be thoroughly familiar with control operation and function before using the mower.

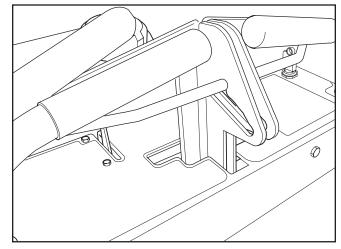


The neutral bail for the motion control levers must be in locked position.



### WARNING!

Do not operate the mower if the interlock safety system allows operation or starting in any unsafe condition.



Disengage blades by pulling lever back

Neutral lock bail

8011-477

### **Starting the Engine**



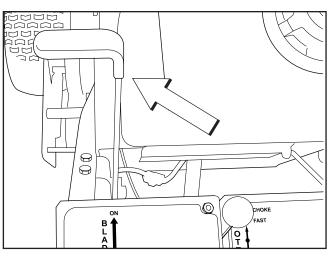
position.

### WARNING!

Do not run the engine indoors, in enclosed or poorly ventilated spaces. Engine exhaust fumes contain poisonous carbon monoxide.

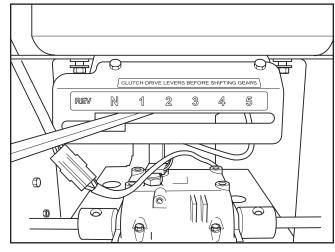
Move blade engagement lever to the OFF position, so the interlock will allow engine to start.

Check gear shift lever to be sure it is in the neutral



Blade engagement lever

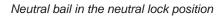
8011-474



Gear shift lever

8011-482

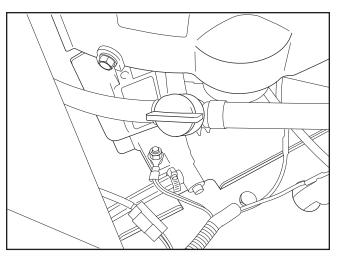
8011-477



While on level terrain, squeeze both motion control levers and lift up on the neutral bail to lock it into the neutral lock position. This will ensure that the mower is braked.

22 - Husqvarna

Open fuel shut-off valve.



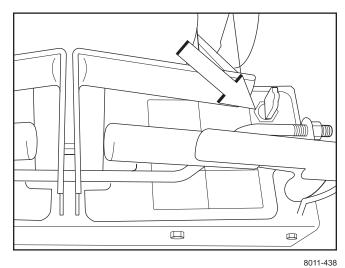
Fuel shut off valve - open

8011-438

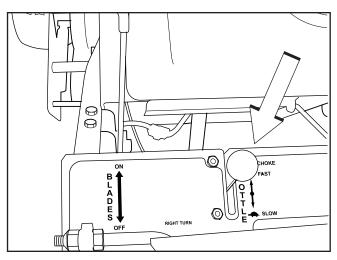
Turn ignition key to ON position.

Set throttle control and engage the choke (if needed).

Do not use choke when the engine is warm.



Ignition key



Choke control/throttle control lever

8061-682

#### **IMPORTANT INFORMATION**

Do not let the recoil cord snap back by itself. This may damage the cord or the recoil starter assembly.

Pull the recoil starter grip slowly until you feel compression, then pull it briskly.

If the engine won't start in three pulls, open the choke and try again.

Warm engine momentarily, then disengage the choke until engine runs smoothly, approximately half throttle.



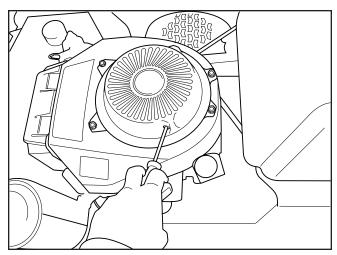
### WARNING!

Be sure all persons are clear of area before engaging the blades.

#### **IMPORTANT INFORMATION**

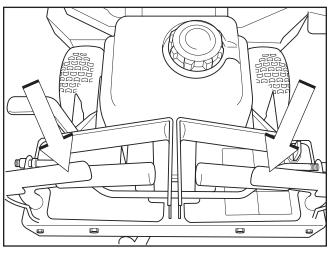
To prolong spindle bearing clutch and belt life, engage and disengage the blades at approximately half throttle.

Depress one operator presence lever. Engage the blades and set the desired rpm. The best cutting and bagging is obtained with engine at top rpm. Grip motion control levers before shifting gears.



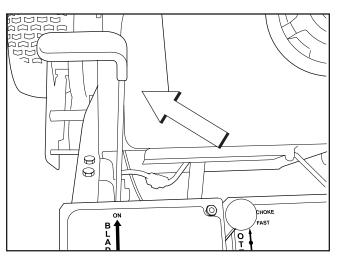
Recoil starter grip

8011-476



Motion control levers

8011-478

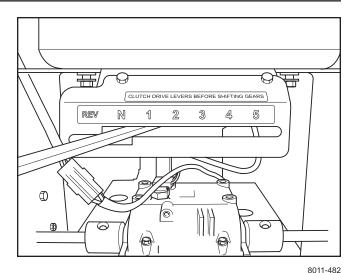


Blade engaged

8011-474

### Gearbox

The gear drive machines have a 5-speed gearbox. The gear selector is placed under the control panel. Only shift gear when the machine is standing still and on level ground.



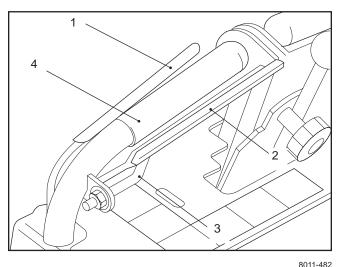
### Running

- 1. Depress one operator presence lever and shift transmission to the desired gear.
- 2. Unlock the motion control levers by pushing the neutral bail down, out of the neutral slots. Slowly release both levers at the same time to begin forward motion.

The steering system of this mower uses individual right and left motion control levers on the handle bars. Squeezing the lever will reduce tension on the wheel drive belt, eliminating power to that wheel. With the opposite wheel still under power, a turn is accomplished.

If the motion control lever is squeezed even tighter the brake will be applied to that wheel and a tighter more abrupt turn is accomplished. Turn left by squeezing the left hand lever or turn right by squeezing the right hand lever. If you squeeze both levers the mower will stop.





- 1. Operator Presence Lever
- 2. Drive Lever
- 3. Neutral Bail
- 4. Handle

Handle with bail in neutral position

Husqvarna-25

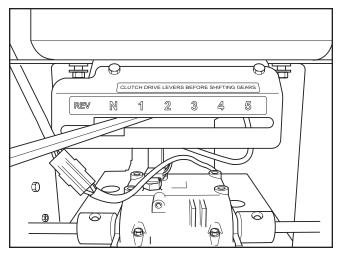
### Reverse

Depress one operator presence lever and shift transmission to the reverse gear. Grip motion control levers before shifting gear.



### WARNING!

Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across slopes.



Gear shift lever

8011-482

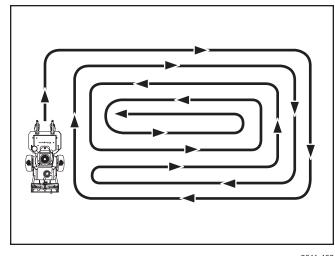
### **Operating on hills**

To operate on slopes is a dangerous mowing job. Read the Safety Instructions section "Driving on Slopes".

- The slowest speed possible should be used before starting up or down hills.
- Avoid stopping or changing speed on hills.
- Make all turns slowly.

### **Mowing Tips**

- Observe and mark rocks and other fixed objects in order to avoid collisions.
- Properly level the cutting deck for best mowing performance. The blades should be parallel to the ground or slightly tipped down in the front.
- Use only sharp blades.
- Check tire pressure. Different pressure can cause uneven mowing results.
- Use the left hand side of the deck for trimming.
- Drive so clippings are discharged onto the area that has been cut. Have the cut area to the right of the mower. This will result in more even distribution of clippings and a more uniform cut. To avoid clippings spraying on roads etc, mow the first two patterns in opposite direction.
- Begin with a high cutting height and reduce it until the desired mowing result is attained.
- Cut the average lawn to 2½" (64 mm) during the cool season and to over 3" (76 mm) during the hot months. For healthier and better looking lawns, mow often after moderate growth.
- For best cutting performance, grass over 15 cm (6") in height should be mowed twice. Make the first cut relatively high; the second to the desired height.
- Use a high engine speed (the blades rotate rapidly) and low speed (the machine moves slowly) for the best mowing results. If the grass is not too long and dense, the driving speed can be increased without noticeably depreciating the mowing result.
- Mowing often for obtaining the finest lawn. The mowing becomes more even and the grass clippings more evenly distributed over the mown area. The total time taken is not increased as a higher driving speed can be used without poorer mowing results.
- Avoid mowing wet lawns. The mowing result is poorer because the wheels sink into the soft lawn, clumps build, and the grass clippings will fasten under the cowling.
- Hose the mower deck with water after each use. Hose especially underneath. Do not spray high pressure spray directly on top of spindles. Avoid getting engine too wet.



Mowing pattern

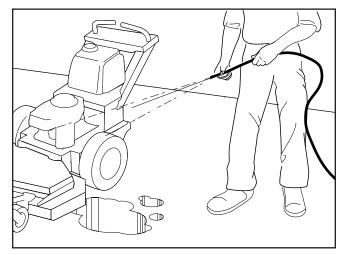
8011-409



### WARNING!

Never drive the machine on terrain that slopes more than 10 degrees.

Mow slopes up and down, never side to side. Avoid sudden directional changes.



Clean mower deck after each use

8011-639-01

### Stopping

### **Emergency stop**

Release both hands from the operate presence lever handles. When both operator presence levers return to their outer position, the engine will quit and the mower will stop.

#### OR

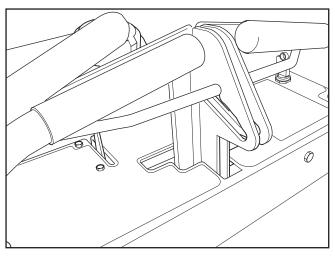
Pull both drive levers firmly against handle grips and hold them securely in place. Use thumbs to lift the neutral bail up into the neutral slot. Stop engine by pulling throttle control back and then shut off the key switch.

#### Normal operating stop

- Pull both drive levers (traction levers) firmly toward the handle grips to stop forward motion.
- Use thumbs to lift neutral bail into the neutral slots.
- Move the throttle control to the slow position.
- Move blade engagement control to the off position.
- Move shift lever to the neutral position.
- Stop engine.

#### **Stopping the Engine**

If the engine has been worked hard, allow it to idle a minute in order to attain normal operating temperature before stopping it. Avoid idling the engine for longer periods, as there is a risk of the spark plugs fouling. When the machine is standing still, set the neutral bail in the lock position.

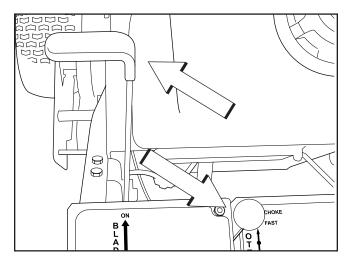


Neutral bail in the neutral lock position

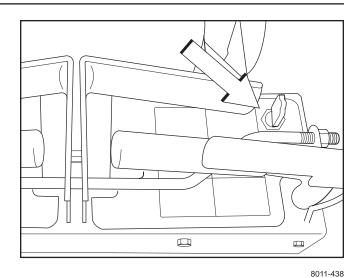
8011-477

Disengage the blades by pulling the blade engagement lever back.

Move the throttle to the minimum position (tortoise symbol). Turn the ignition key to the stop position.



Remove the ignition key.

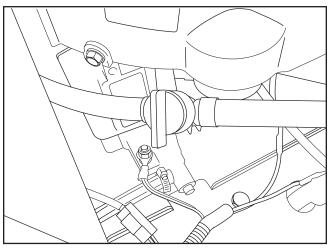


Ignition key

### IMPORTANT INFORMATION

Close fuel valve at the end of each mowing session.

Shut OFF the fuel valve.

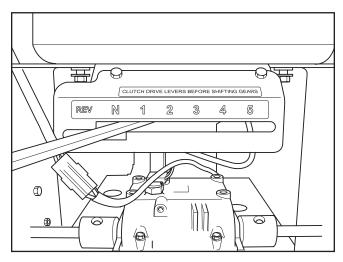


Fuel shut off valve - closed (OFF)

8011-437

### **Manual Transport**

To move the machine with the engine turned off, make sure the gear shift lever is in the neutral position and the motion control levers are not in the locked position. The locked position is used when the machine is parked.



Gear shift lever

### **Cutting Height Adjustment**

The cutting height can be adjusted by three methods:

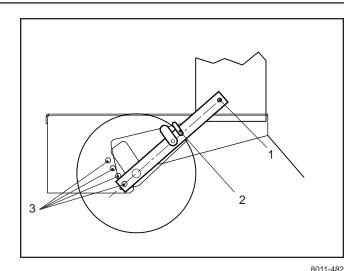
- Moving spacers between the upper side and the lower side of the caster swivel according to "Cutting Height Table". For instruction, see below.
- Moving spacers between the upper side and the lower side of the blades according to "Cutting Height Table". For removing and installing blades, refer to "Blade replacement".
- Rear axle height adjustment according to the following instruction.
  - 1. Stop engine and place motion control levers in the neutral lock position. Remove spark plug wires.
  - Remove lower belt shield from underside of rear deck for better access to axle adjustment bolts.
  - 3. Loosen axle pivot bolts and axle adjustment bolts. See illustration.
  - Place a jack under center of rear deck. Raise the jack slightly so axle adjustment bolts may be removed.
  - 5. With the jack, raise or lower the rear deck to the desired position using the chart to ensure proper height.
  - 6. Reinstall the axle adjustment bolts and tighten. A tapered punch may be used to help align the holes.
  - 7. Using the "Cutting Height Table", find the correct number of spacers to be placed under the caster swivel.
  - 8. Remove the lynch pin and washer from the top of the caster and reposition spacers to the desired cutting height from the table. See illustration.

#### **IMPORTANT INFORMATION**

It may be necessary to readjust drive and brake linkages.

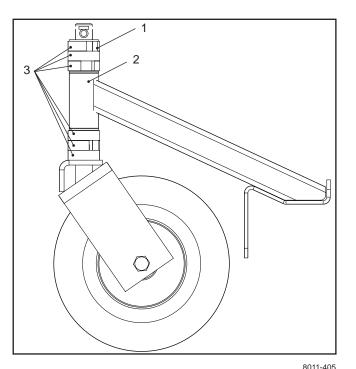
#### **IMPORTANT INFORMATION**

To achieve the best quality cut, the blades should be level with the ground or slightly tipped forward.



- 1. Axle pivot bolt
- 2. Securing bolts (loosen each side)
- 3. Axle adjustment bolts

Rear axle height adjustment



- 1. Machinery bushing
- 2. Caster swivel
- 3. Spacers, 1/2"
- Rear axle height adjustment

#### Axle **Blade Spacers** Cutting Spacer Position Below Under Cutter Height **Caster Arm** Housing A 0 4 1½" (38mm) 3 1¾" (44mm) 2 2" (51mm) 1 2¼" (57mm) 0 21/2" (64mm) 1 4 1¾" (44mm) 3 2" (51mm) 2 2¼" (57mm) 1 21/2" (64mm) 0 2¾" (70mm) 4 В 2 21/2" (64mm) 3 2¾" (70mm) 2 3" (76mm) 1 3¼" (83mm) 0 31⁄2" (89mm) 3 4 3" (76mm) 3 3¼" (83mm) 2 31/2" (89mm) 1 3¾" (95mm) 0 4" (102mm) 3¼" (83mm) С 3 4 3 31/2" (89mm) 2 3¾" (95mm) 1 4" (102mm) 0 4¼" (108mm) 4 4 31/2" (89mm) 3 3¾" (95mm) 2 4" (102mm) 4¼" (108mm) 1 0 41/2" (114mm) D 4 4 3¾" (95mm) 3 4" (102mm) 2 4¼" (108mm) 1 4½" (114mm) 0 4¾" (121mm) 5 4 4" (102mm) 3 4¼" (108mm) 2 41/2" (114mm) 1 4¾" (121mm) 0 5" (127mm)

### **Cutting Height Table**