

# OPERATION

## START AND STOP THE ENGINE



**WARNING:** the blade begins to rotate as soon as the engine is started.



**NOTE:** Do not operate the lawn mower in enclosed or poorly-ventilated areas as the exhaust gas contains toxic substances.

Keep hands, feet, hair and clothing away from the moving parts of the machine. The exhaust and other parts of the machine will become hot during use.

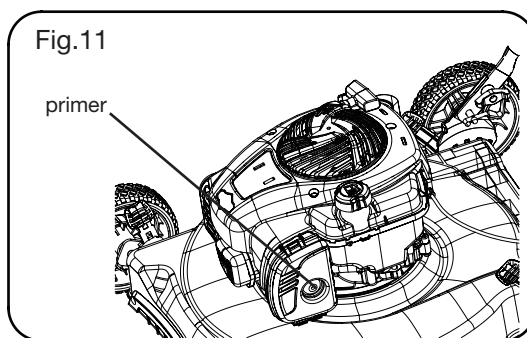
Make sure that the blade is securely fastened before starting the engine.



**NOTE:** to start the engine, make sure that the spark plug cover is connected to the plug and the machine is filled with sufficient oil and gas.

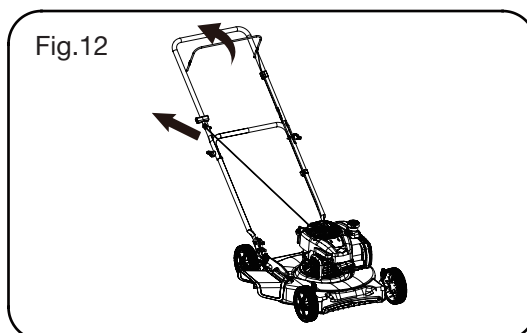
## TO START THE ENGINE

1. When starting a cold engine, press down the primer fully 3-5 times (see Fig. 11).



**WARNING!** Too many presses on primer may cause engine flooding. When starting a warm engine, the primer does not need to be used. If the engine stops due to a lack of gas, refill then press the primer 3-5 times.

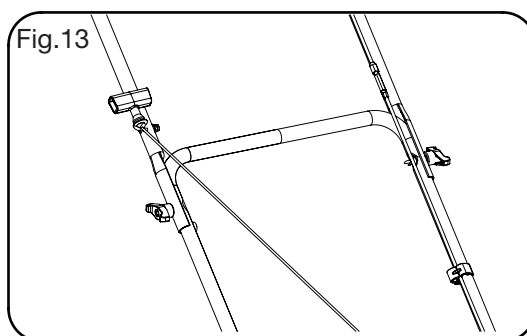
2. Stand behind the mower. Pull the Engine On/Off Control Bar toward upper handle with one hand and place the other hand on the starter handle.
3. Pull the starter handle out approximately 4" to 6" (10 to 15 cm) until you feel a resistance and then start the engine with a sharp pull (see Fig. 12).



**NOTE:** If the engine fails to start after three pulls, repeat the process.

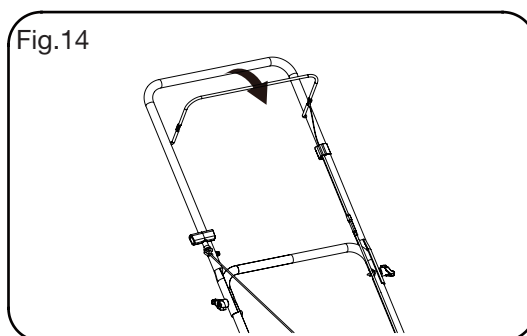
## OPERATION

- Once the engine is running, put the starter rope into the rope guide (see Fig. 13).



### TO STOP THE ENGINE

As shown in Fig. 14



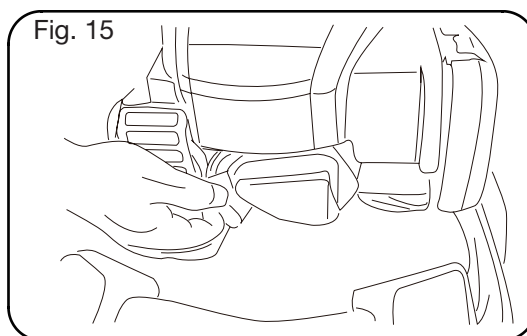
Release the Engine On/Off Control Bar. It will return to its initial position and the engine will automatically switch off.

### TO CLEAN A FLOODED ENGINE



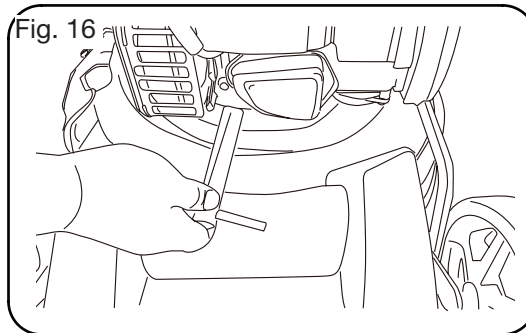
**NOTE:** If the engine won't start after you have pulled the engine start rope several times, the engine may be flooded with excess fuel. Use following procedure to clear and start a flooded engine.

- Release the Engine On/Off Control Bar to stop engine.
- Remove the spark plug, dry it, and then re-install it.
  - (1) Remove the spark plug cover (see Fig. 15).



## OPERATION

- (2) Use the spark plug socket wrench (not supplied) to remove the spark plug (see Fig. 16).



- (3) After drying, tighten the spark plug.



**NOTE:** Install the spark plug carefully by hand to avoid cross-threading. After the plug is seated, tighten 1/8 to 1/4 turn with the spark plug socket wrench to compress the washer.

3. Pull the Engine On/Off Control Bar toward upper handle.
4. Operate the starter as described above.

## MOWING



**WARNING:** Always observe the strictest safety procedures when using the lawn mower. Carefully read the safety instructions of this manual before using the lawn mower.



**WARNING:** Never open the rear chute flap when the grass bag has been detached (to be emptied) and the engine is still running. The rotating blade can cause serious injuries!

1. Select your required height and function settings.
2. Start the engine and allow it run.  
See "To start the engine".
3. Keep a firm grip on the upper handle with engine on/off control bar and push forward to start mowing.

## WORKING TIPS

1. Walk, never run with the mower, and be very careful when mowing uneven or rough ground.
2. Mow across slopes, never up and down.
3. Be careful when changing the direction of the mower on a slope.
4. Do not mow excessively steep slopes.
5. The best result will be achieved if the grass is dry. Wet grass will tend to clog the blade.
6. Grass grows at different rates at different time of the year. Never use the lowest cutting height for the first cut of the season or in drought conditions.
7. Only about one third of the grass height should be cut.
8. Do not cut high or wet grass when mulching to ensure that the cut grass can be scattered effectively. When you have been cutting for several minutes, please stop the mower and clean the blade and the deck.
9. Do not remove grass debris in the mower casing or on the blade by hand or with your feet. Instead, use suitable tools such as a brush or broom.

## MAINTENANCE AND STORAGE



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

### CLEANING

#### GENERAL CLEANING

The lawn mower should be cleaned thoroughly every time after it has been used. Always clean your lawn mower immediately after use.

Do not allow grass cuttings and other debris to become dry and hard on any of the mower surfaces.

Dried grass remnants and dirt may impair the mowing operation.

Check that the grass chute is free of any residual grass. Remove any such residue. Check the underside of the lawn mower and the blade mount. When checking, tilt the lawn mower onto its left side (opposite the oil filler neck).

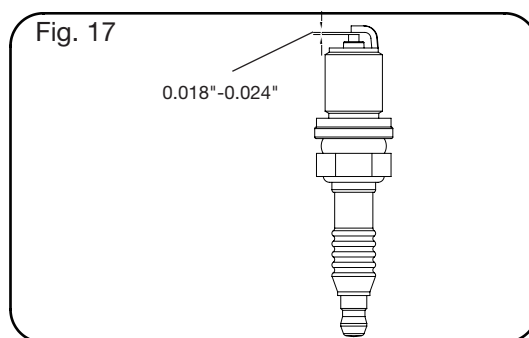


**NOTE:** Before placing the lawn mower on its side, fully drain the fuel tank using a gas extraction pump.

Do not tilt the lawn mower by more than 90 degrees.

### MAINTENANCE OF THE SPARK PLUG

As shown in Fig. 17

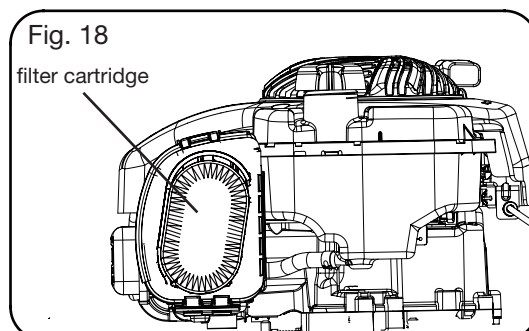


1. Once the engine has cooled, pull off the spark cover with a twist.
2. Remove the spark plug using a spark plug wrench (not supplied).
3. Clean the spark plug with a wire brush (not supplied).
4. Using a feeler gauge, set the gap to 0.018"-0.024" (0.46mm-0.61mm).
5. Install the spark plug carefully by hand to avoid cross-threading.
6. After the spark plug is seated, tighten with the spark plug wrench to compress the washer.

## MAINTENANCE AND STORAGE

### MAINTENANCE OF THE AIR FILTER

As shown in Fig. 18



Soiled air filters reduce the engine output by restricting air to the carburetor. If the air contains a lot of dust, the air filter should be checked more frequently.



**WARNING!** Never run the engine without the air filter element installed.

1. Press tabs at the top of the air filter cover and tilt away from the engine to remove the cover.
2. Remove the filter cartridge.
3. To loosen debris, gently tap the filter cartridge on a hard surface. If the filter cartridge is excessively dirty, replace with a new one.



**Note:** Never clean the air filter cartridge with gas or inflammable solvents. Clean the air filter cartridge only with compressed air or by tapping it.

4. Install the filter cartridge.
5. Close the cover and secure it properly by snapping tabs back into the correct slots at the top.

### CHECK AND ADD THE ENGINE OIL

The oil needs to be changed after first 5 hours. Before each use check the oil level and add additional oil if the level is not within the Min - Max levels.

### REPLACING THE BLADE

For safety reasons you should only ever have your blade sharpened, balanced and mounted by an authorized service workshop. For optimum results, it is recommended that the blade be inspected once a year.



**WARNING!** Before you remove the grass collection bag, stop the engine and wait until the blade stops completely.



**WARNING!** You will need garden gloves (not provided) and a wrench (not provided) to remove the blade.



**NOTE!** Don't invert the mower. Tip it slightly towards the oil filler pipe and reach under the deck.

## MAINTENANCE AND STORAGE



**WARNING!** Always handle the blade with care; sharp edges could cause injury. **USE GLOVES.** Replace your metal blade after 50 hours mowing or 2 years, whichever is sooner, regardless of condition.



**WARNING!** If the blade is cracked or damaged, replace it with a new one.



**WARNING!** Don't hold the blade by hand directly.



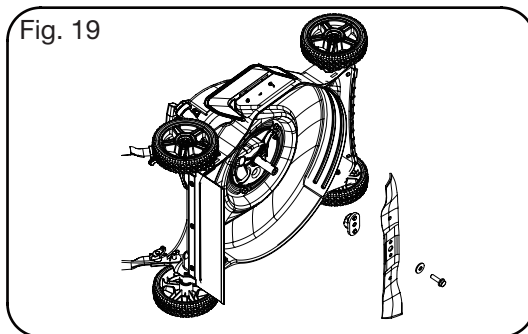
**NOTE!** Maintain the sharpness of the blade when cutting grass. If the blade has worn excessively and become pitted and blunt, it should be replaced or sharpened. The sharpness of the blade will affect the performance of the lawn mower.

For safety reasons we recommend that the blade only be changed by someone qualified and authorized to do so.

Hold the blade and unscrew the blade bolt counter-clockwise using a wrench. Remove the washer and the blade.

Fit a new blade or re-sharpen the blade. Place the blade on the two studs on the blade flange with angled ends pointing up in the direction of the engine and then replace the washer and bolts. Make sure the blade is correctly located, and then firmly tighten the bolt with a torque of 33-44 ft lbs(45-60 Nm). Do not over tighten. The up turn of the blade must project into the motor compartment.

Fig. 19



### STORING THE LAWN MOWER FOR SHORT PERIODS

The lawn mower can be stored for short periods of time (less than 15 days) without performing any storage maintenance. Before placing the lawn mower into storage always do the following:

1. Allow the engine to fully cool.
2. Ensure the grass bag is empty.
3. Clean all debris from under the mower deck.
4. Store the lawn mower on a flat and level surface with the mower upright.
5. Store in a safe place which is not accessible by children or people who are not familiar with the lawn mower's operation.

### STORING THE LAWN MOWER FOR EXTENDED PERIODS

If the lawn mower is to be placed into storage for more than 15 days, storage maintenance must be performed on the lawn mower. If the following steps are not carried out, when you next operate the lawnmower it may not start correctly and may need to be serviced.

## MAINTENANCE AND STORAGE



**CAUTION!** Do not empty the gas tank in enclosed areas, near fire or when smoking. Gas fumes can cause explosions and fire.

1. Empty the gas tank with a gas suction pump if available.
2. Start the engine and let it run until any remaining gas has been used up.
3. Clean the cooling fins of the cylinder and the housing.
4. Be sure to clean the entire machine to protect the paint.
5. Store the machine in a well-ventilated place.

### MAINTENANCE SCHEDULE

Performing routine maintenance correctly on your lawn mower will ensure you get years of trouble-free use. Please keep this manual safe for future reference.

It is recommended that the following maintenance schedule is adhered to. This will ensure the lawn mower operates correctly and is safe to use. Change engine oil after first 5 hours.

	12 hours of use	24 hours of use	36 hours of use
Air filter	Clean	Clean	Clean
Spark plug	Check	Clean	Clean
Engine oil	Check	Check	Check

### TRANSPORTING THE LAWN MOWER

Empty the gas tank. Always let the engine run until it has used up the remainder of gas in the tank. Empty the engine oil from the warm engine. Remove the spark plug cover from the spark plug. Clean the cooling fins of the cylinder and the housing. Use the original packaging to ship whenever possible.