1. INTRODUCTION
(Be sure to read this manual before using the machine!)

- Thank you very much for purchasing our Lawn Mower.
- Before operating the machine, be sure to carefully read all the manuals including this manual to understand their contents.
- If the machine is operated without fully understanding their contents, an unexpected personal accident may occur or the machine or other property may be damaged since you are not aware of the hazards involved in the machine and the safety measures to avoid them.
- Acknowledge that we cannot guarantee any damage occurred due to your failure to follow the contents in this manual.
- Never allow any child to operate or service this machine.

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Recommended Engine Oils

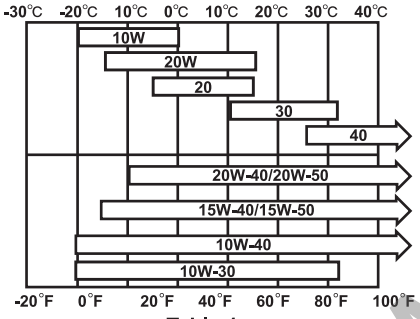


Table 1

For Lawn Mower with HONDA engine:
Use engine oil of API Class SJ or later.
SAE 10W-30 is generally recommended for the entire temperature range.
Select engine oil suitable for the temperature in which the machine is used, referring to **Table 1.**

NOTE

No engine oil is filled before the shipment from our factory. Be sure to fill the engine oil before starting the machine for the first time.

2. ABOUT THIS MANUAL

- Consult our distributor when you have lost or damaged this manual.
- The illustrations and contents in this manual may differ from the actual machine due to the revision of the specifications, etc.
- Attach this manual to the machine when you lend or resell the machine to other person.

3. SAFETY (Be Sure To Read!)

Strictly observe the contents in this section and the warnings in each section, and never take any general dangerous behavior.

3.1 Signal Words for Safety

In this manual, the following signal words are used for the safety precautions considered to be especially important.

⚠ **DANGER**	**Indicates a hazardous situation that, if not followed, will result in death or serious injury.**
⚠ **WARNING**	**Indicates a hazardous situation that, if not followed, may result in death or serious injury.**
⚠ **CAUTION**	**Indicates a hazardous situation that, if not followed, may result in minor injury and / or damage to the machine.**

3.2 Safety Labels

- Safety labels are affixed on the lawn mower as shown in **Fig. 1.**
- Always keep the safety labels clean and legible.
- Affix a new safety label if the old one becomes illegible.

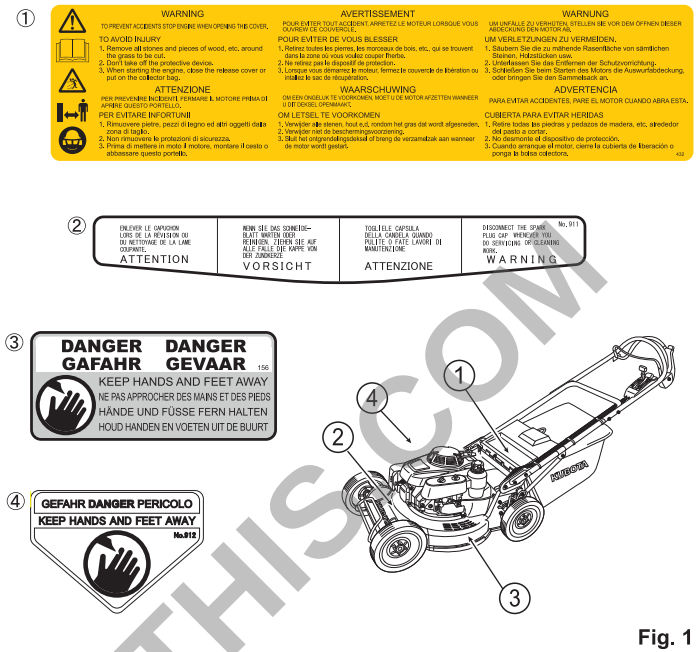


Fig. 1

3.3 Precautions on Blade

This machine is equipped with the blade that rotates at high speed.
(See Section 9.7) It is very dangerous if you work without observing the following precautions since the blade is a sharp-edged, dangerous cutter.

⚠ **DANGER**

- **Do not insert your hand or foot from the gap under the cover while the engine is working.**
- **Stop the engine and remove the plug cap in the following situations: During inspection and maintenance, and part replacement, and at a machine trouble or other trouble (such as the case being coughed by a branch, etc.)**

3.4 Handling of Gasoline

Observe the following precautions to prevent an accident when handling gasoline.

⚠ **DANGER** (See the separate engine manual.)

Fuel to be used

- **Use unleaded gasoline only.**
  Do not use any gasoline such as the one with alcohol, lead gasoline, and dirty gasoline.
  Besides, do not mix oil to it.
  If fuel other than gasoline is used, it may cause a fire or damage the machine.

Refueling

- **Gasoline is highly combustible and explosive, and, therefore, do not get any cigarette and other combustible items close to it. Also, never refuel near a place where fire is used.**
- **Do not open the fuel tank cap nor refuel while the engine is working or it is still hot.**
- **Surely tighten the fuel tank cap. If gasoline is spilt, immediately wipe it off with a rag. Also, do not bring any ignition source closer until it vaporizes.**
- **Take caution not to mix foreign matters.**
- **Check for fuel leakage.**
- **Be sure to ventilate when refueling gasoline indoors. Refuel at a properly ventilated place.**

Storage

- **Put in a (metallic) container only for gasoline, and keep it in a cool dark place.**
- **Keep it distinguished from kerosene, etc.**
- **Store only the amount of gasoline regulated by the relative law of a country where this machine is to be used.**

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7. ASSEMBLY

7.1 Assembly and Height Adjustment of Handle

W821S-AU

1 Install the lower handle to the machine (with knob nuts). **(See Fig. 2.)**

2 Assemble the upper handle to the lower handle, and then tighten with bolts and knob nuts.

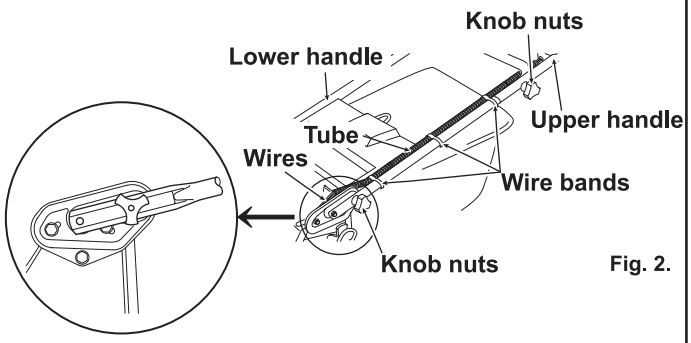


Fig. 2.

W821SC-AU

1 Install the lower handle to the machine (with 4 nylon nuts). **(See Fig. 2.)**

2 Assemble the upper handle to the lower handle, and then tighten with bolts and cap nuts.

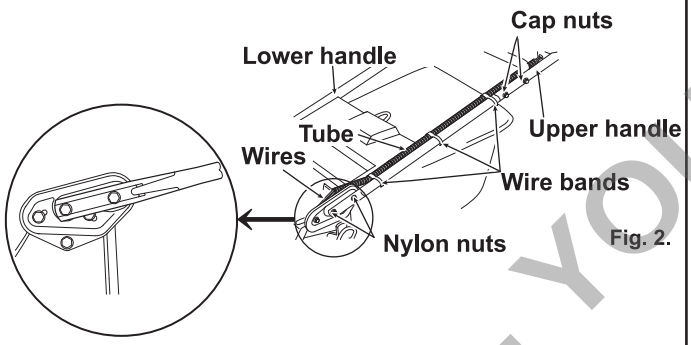


Fig. 2.

3 Remove the housing bolts and loosely fix the bar temporarily. **(See Fig. 3.)**

4 Install the fixing band to the lower handle.

5 Catch the bar with the hanger band and tighten it with bolts and cap nuts.

6 Tighten the bolts of the housing.

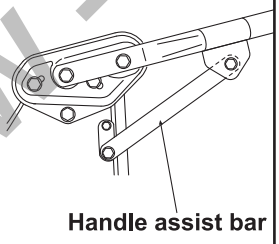


Fig. 3.

handle height adjust bolt

The handle can be adjusted steplessly within its adjustment range.**(See Fig. 4.)**

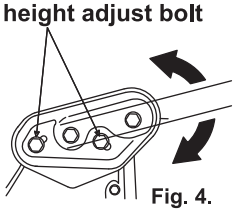


Fig. 4.

NOTE

Fix wires, etc. to the handle with wire bands so that they do not interfere opening / closing of the guard or operation of the machine.

W821SC-AU

When adjusting the height of the handle, loosen the bolt of the handle assist bar before loosening the handle height adjust bolt.

7.2 Attaching and Detaching of Grass Bag

⚠ CAUTION
Be sure to stop the engine. Open or Close Guard (G) slowly. Also, do not insert your fingers in between.

(See Figs. 5, 6 and 7.)

7.2.1 Assembly

1 Lift Guard (G), and set Hook (W) on the housing.

2 Confirm that Grass bag (F) is attached at the specified position.

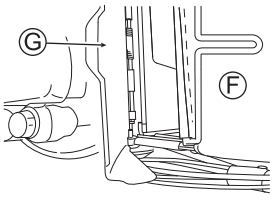


Fig. 5.

7.2.2 Removal

1 Lift Guard (G), and remove Hook (W) from the housing.

2 Close Guard (G) slowly.

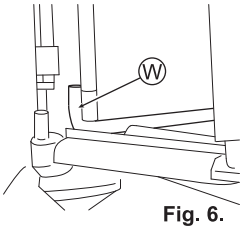


Fig. 6.

NOTE

- *Clogging of the grass bag lowers the collecting performance.*
- *A wet grass bag advances clogging.*

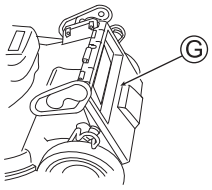
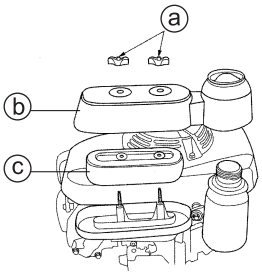


Fig. 7.

7.3 Attaching of Air cleaner

1 Assemble element (c) to its original position, and close cover (b) with Mounting bolts (a).



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8. OPERATION

8.1 Preparation and Inspection Before Operation

Place the lawn mower at a level place.

⚠ DANGER **Before inspection, be sure to stop the engine and remove the plug cap.**

8.1.1 Checking the engine oil amount

1 Remove Oil tank cap (V), pull out the oil gauge, and then insert it not screwing it. **(See Fig .8)**

2 Remove Oil tank cap (V), and confirm that the oil level is between the upper and lower limits of the oil gauge.

3 Replenish oil if oil level is near the lower limit.

4 Firmly close Oil tank cap (V) after confirmation.

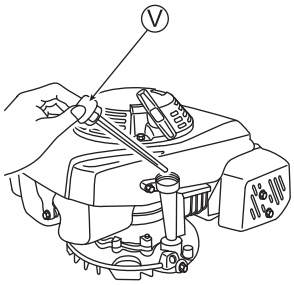


Fig. 8

8.1.2 Refueling (See Section 3.4 for precautions during refueling.)

1 Open Fuel tank cap (J) and refuel gasoline. Immediately wipe off with a rag if gasoline is spilt. **(See Fig. 9)**

2 Firmly close Fuel tank cap (J) after refueling.

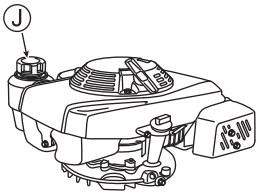


Fig. 9

8.1.3 Checking the grass bag

Confirm that there are no holes and damages with the grass bag. If any, exchange it with new one specified by us.

8.1.4 Checking each part

1 Confirm that all the bolts, nuts, and screws are securely tightened.

2 Confirm that the covers and guards are firmly installed. Remove the drive shaft cover with a tool.

3 **See Section 9.7** for the inspection of the blade.

8.2 Start and Stop of Engine

8.2.1 Start

1 Install Plug cap (Q). **(See Fig. 12)**

2 Set Fuel cock (R) to "ON". **(See Fig. 10)**

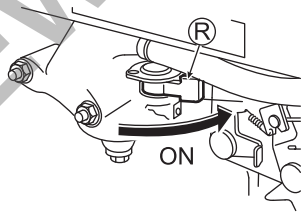


Fig. 10

3 Set Throttle lever (E) to Choking "|↘|". **(See Fig. 11)** (The engine can start by setting the lever at "🐇" when it is warm.)

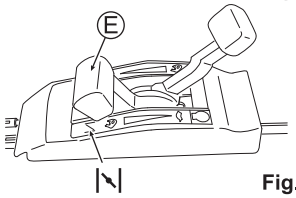


Fig. 11

4 To start the engine, step one foot on the step of the housing, lightly pull Starter knob (W) and temporarily stop at a position where you feel heavy to pull the knob **(See Fig. 12)** , and then powerfully pull it from that position. After that, return Starter knob (W) slowly.

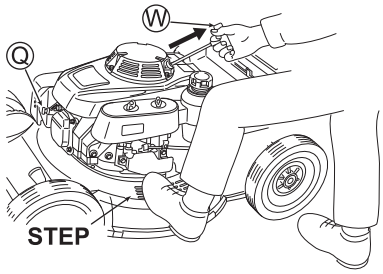


Fig. 12

⚠ CAUTION

- **Confirm that there is no person behind you when pulling Starter knob (W).**
- **Securely grab Starter knob (W) when you pull it.**
- **Return Starter knob (W) slowly.**

5 Warm up the machine before use. After the engine has warmed up, start mowing by setting Throttle lever (E) to "🐇". **(See Fig. 13)**

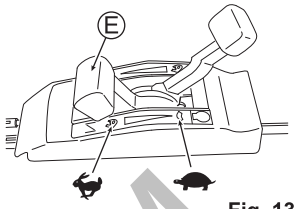


Fig. 13

NOTE

- *The engine stalls if the blade lever is gripped with Throttle lever (E) set at "🐢".*

8.2.2 Stop

1 Release the blade lever and the drive clutch lever.

2 Set Throttle lever (E) to "STOP". **(See Fig. 14)**

3 Set Fuel cock (R) to "OFF". **(See Fig. 15)**

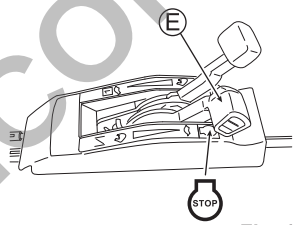


Fig. 14

NOTE

- *Do not stop the engine with Throttle lever (E) set at "|↘|". Restarting the engine will become harder.*
  If the engine does not stop even if Throttle lever (E) is set at "STOP", set it to "|↘|".

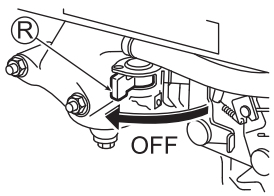


Fig. 15

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9. INSPECTION AND MAINTENANCE

NOTE

See the engine instruction manual for the details of the maintenance of the engine.

9.1 Cleaning

- Wipe dirt off when this machine and the safety labels get dirty.
- Do not directly spray water with a hose, etc. since it may cause a machine failure.
- Wipe with a dry rag after cleaning, and then wipe the metal surface with a rag soaked with oil.
- Clean the grass bag while spraying water with a hose. Dry bag before use.

9.2 Checklist

Operating hours		Every time	Time		
			25	50	100
Engine oil (8.1.1, 9.4)	Check	○			
	Exchange			○*	
Air cleaner (9.5)	Cleaning		○		
Loose bolt (9.8)	Check	○			
Fuel (8.1.2)	Refueling	○			
Ignition plug (9.6)	Cleaning				○
	Adjust				○
Blade (9.7)	Check	○			
Blade bolt (9.7.1)	Check	○			
Grass bag (8.1.3)	Check	○			
	Cleaning	○			
Throttle wire	Adjust				○
Drive clutch wire	Adjust			○	
Blade wire	Adjust			○	
	Check			○	
Gearshift wire	Adjust			○	
Valve clearance	Adjust				○**
Combustion chamber	Cleaning				○**
Fuel tank	Cleaning				○**
Strainer	Cleaning				○**
Fuel tube	Check				○

* Exchange oil after using the machine for 25 hours only for the first time after purchase.
After that, exchange oil at 50-operating hour intervals according to the degree of dirtiness.

** Maintenance techniques and special tools are necessary for this check item. Therefore, consult our distributor near you.
The numbers in ( ) show the sections in this manual to be referred.

9.3 Lubrication to Each Part

Regularly lubricate each bearing with an oilcan to keep the smooth operation of each part.

9.4 Exchanging Engine Oil

NOTE

Extract gasoline first before tilting the engine to drain its oil. Treat and dispose the drained engine oil properly according to the law in each country.

⚠ CAUTION **Take sufficient caution not to get burnt since the engine and the muffler are very hot right after the engine stops.**

1 Stop the engine and remove the plug cap.
2 Remove the oil tank cap. **(See Section 8.1.1)** **(See Fig. 37)**
3 Drain the engine oil from the drain port.
4 Check the gauge on the oil tank cam, and fill with oil to the upper limit. **(See section 8.1.1)**

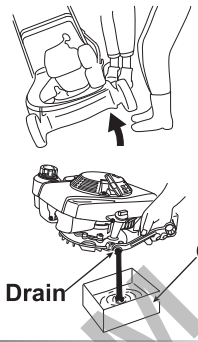


Fig. 37

9.5 Air cleaner (See Fig. 38)

NOTE

If the air cleaner is clogged, engine output is reduced and gasoline consumption increases. Clean the air cleaner on a regular basis.

1 Remove Mounting bolts (a) and open Cover (b).
2 Use a neutral detergent to clean the sponge element (c). Allow it to dry thoroughly before use.
3 Return Element (c) to its original position, and close Cover (b) with Mounting bolts (a).

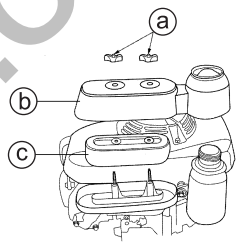


Fig. 38

⚠ CAUTION **Securely install the air cleaner cover. If it is not installed correctly, vibration will loosen it, allowing dust to be sucked in and damaging the engine.**

9.6 Ignition Plug

1 Remove Plug cap (Q). **(See Fig. 39)**
2 Remove Ignition plug (P) with the attached plug wrench. **(See Fig. 40)**

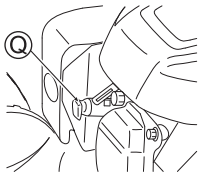


Fig. 39

3 Exchange Ignition plug (P) if a great amount of carbon is adhered to it or its insulator is cracked or damaged.
4 Remove the carbon adhered to the electrode, and adjust the electrode clearance to 0.7 mm. **(See Fig. 41)**
5 Install Ignition plug (P) and Plug cap (Q).

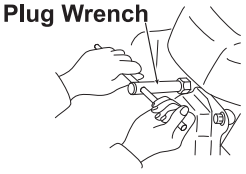


Fig. 40

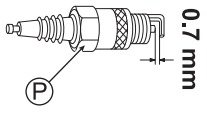


Fig. 41

9.7 Blade

NOTE

Incline this machine with the carburetor side of the engine positioned upside.

9.7.1 Checking the blade mounting bolts

⚠ DANGER **Stop the engine and remove the ignition plug when you check the blade.**

⚠ CAUTION **Wear thick gloves when you check or attach or detach the blade.**

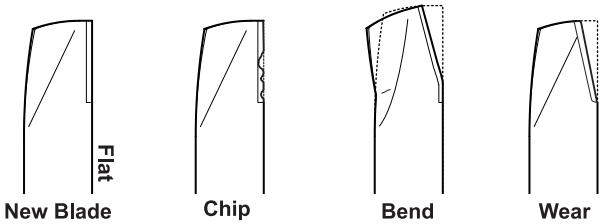


Fig. 42

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3.6 SAFETY INSTRUCTIONS

- Never mow while barefoot or wearing open sandals, or thongs. Wear long trousers and heavy shoes.
- Know your controls. Read the owner's manual carefully. Learn how to stop the engine quickly in any emergency.
- Make sure the lawn is clear of sticks, stones, bones, wire and debris. They could be thrown by the blade.
- Stop the engine and disconnect spark plug wire (on internal combustion engines) or disconnect the mower from the mains (on electric mowers) before clearing blockages, checking or working on the mower.
- Before using, always visually inspect to see that blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.

DAMAGED BLADES AND WORN BOLTS ARE MAJOR HAZARDS.

- Check all nuts, bolts and screws often; always be sure the mower is in safe operating condition. Use only replacement parts made and guaranteed by the original manufacturer of your mower.
- Refuel outdoors only. Do not smoke while fuelling engine. Add fuel before starting the engine. Never remove the cap off the fuel tank or add petrol while the engine is running or the engine is hot. If petrol is spilled, do not attempt to start the engine but move machine away from the area of the spill and avoid creating any source of ignition until petrol vapours have dissipate.
- Do not mow whilst people, especially children, are in the work area.
- Replace worn or faulty silencers.
- Mow only in good daylight.
- Never use the mower unless the grass catcher, or guards provided by the manufacturer, are in position.
- Start the engine carefully with feet well away from the blades.
- Do not operate engine in a confined space where exhaust fumes (carbon monoxide) can collect.
- Stop the engine whenever you leave the mower, even for a moment.
- Do not allow children or people unfamiliar with these instructions to use the mower.
- Store the mower in a well-ventilated room away from naked flames such as may be found in hot water heaters.
- Never use an electrically powered mower in the rain or when grass is wet.
- Never leave wind-up starters in a wound condition.
- Do not over-speed the engine or alter governor settings. Excessive speed is dangerous and shortens mower life.
- It is advisable to wear suitable eye protection when operating a mower.
- Turn the fuel off at the conclusion of mowing and reduce the throttle setting during engine run-out.
- Store fuel in a cool place in a container specifically designed for the purpose. In general, plastics containers are unsuitable.
- Stop the engine, disconnect the spark plug wire or mains power cord, as applicable, and inspect the mower if

  (a) the mower begins to vibrate abnormally; or

  (b) after striking a foreign object.

- Never cut grass while walking backwards.
- Stop the engine before pushing mower across gravel driveways, walkways or roads.
- Walk, never run.
- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
- Never pick up or carry a mower when it is operating.

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