

0777002 and 0777003

HONDA

POWER EQUIPMENT

Lawn Mower Unleaded

LAWNMOWER OWNER'S MANUAL

Manual # 621

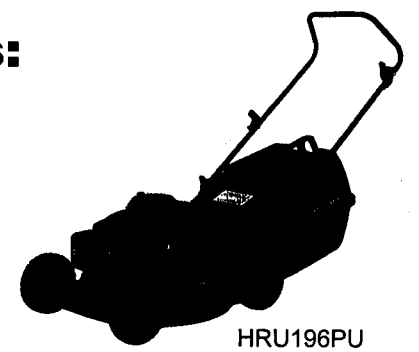
& Service Record Booklet

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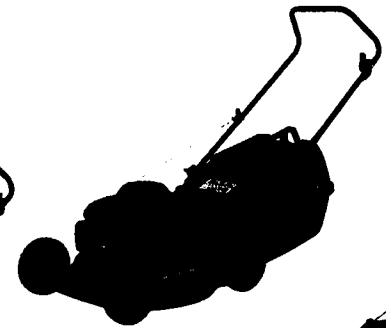
Models:



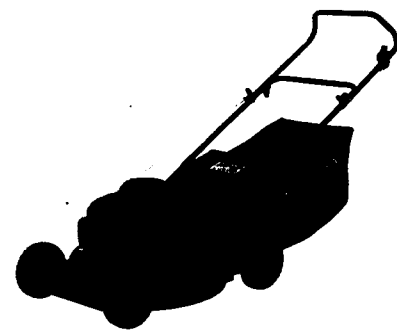
HRU19RPU
HRU19DPU



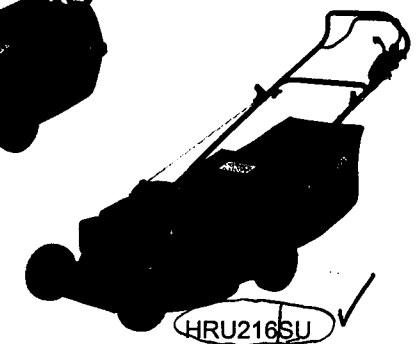
HRU196PU
HRU196DPU



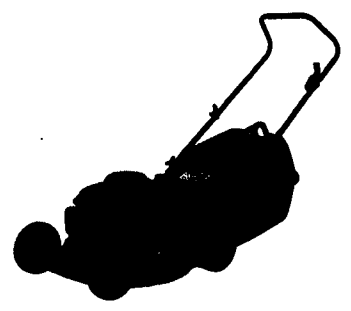
HRU197PU
HRU197DPU



HRU217DPU



HRU216SU
HRU216DSU



HMA C90310 / Part No. C9031

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Honda Australia Motorcycle and Power Equipment Pty. Ltd.

ABN 96 006 662 862 (trading as Honda MPE).

Safety Instructions

Please read before using mower.

Lawnmower models HRU197DPU, HRU216SU, HRU19RPU, HRU196PU, HRU197PU, HRU19DPU, HRU196DPU, HRU216DSU & HRU217DPU are designed for normal domestic use. Caution should be exercised when mowing through tall grass or other objects, such as piles of dry leaves, which may result in the build up of debris on the mower. This may present a fire hazard if the debris comes into contact with the hot engine or engine exhaust parts.

1. Never mow while barefoot or wearing open sandals or thongs. Wear long trousers and heavy shoes.
2. Know your controls. Read the Owner's Manual carefully. Learn how to stop the engine quickly in an emergency. In the event of an emergency, stop the engine immediately.
3. Make sure the lawn is clear of sticks, stones, bones, wire and any debris. They could be picked up and thrown by the blades, resulting in possible injury to the operator or others or damage to the machine.
4. Check your lawn for hidden obstructions such as drain covers and partially buried stones etc, taking care to avoid them while mowing.
5. Stop the engine and disconnect the spark plug cap before clearing blockages, checking or working on the mower.
6. Before using your mower, always visually inspect it 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.**
7. Check all nuts, bolts, screws and blades often. Always be sure the mower is in safe operating condition. Use only replacement parts made and guaranteed by Honda.
8. Refuel outdoors only. Do not smoke while fuelling engine. Add fuel before starting engine. Never remove the cap off the fuel tank or add fuel while the engine is running or the engine is hot. If fuel 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 fuel vapours have dissipated.
9. Do not mow whilst people, especially children, or pets are in the mowing area.
10. Replace worn or damaged mufflers prior to use.
11. Mow only in good daylight.
12. Start the engine carefully with feet well away from the blades.
13. Do not operate in a confined space where exhaust fumes (carbon monoxide) can collect. This may cause serious injury.
14. Stop the engine whenever you leave the mower, even for a moment.
15. Do not allow children or people unfamiliar with these instructions to use the mower.

Safety Instructions

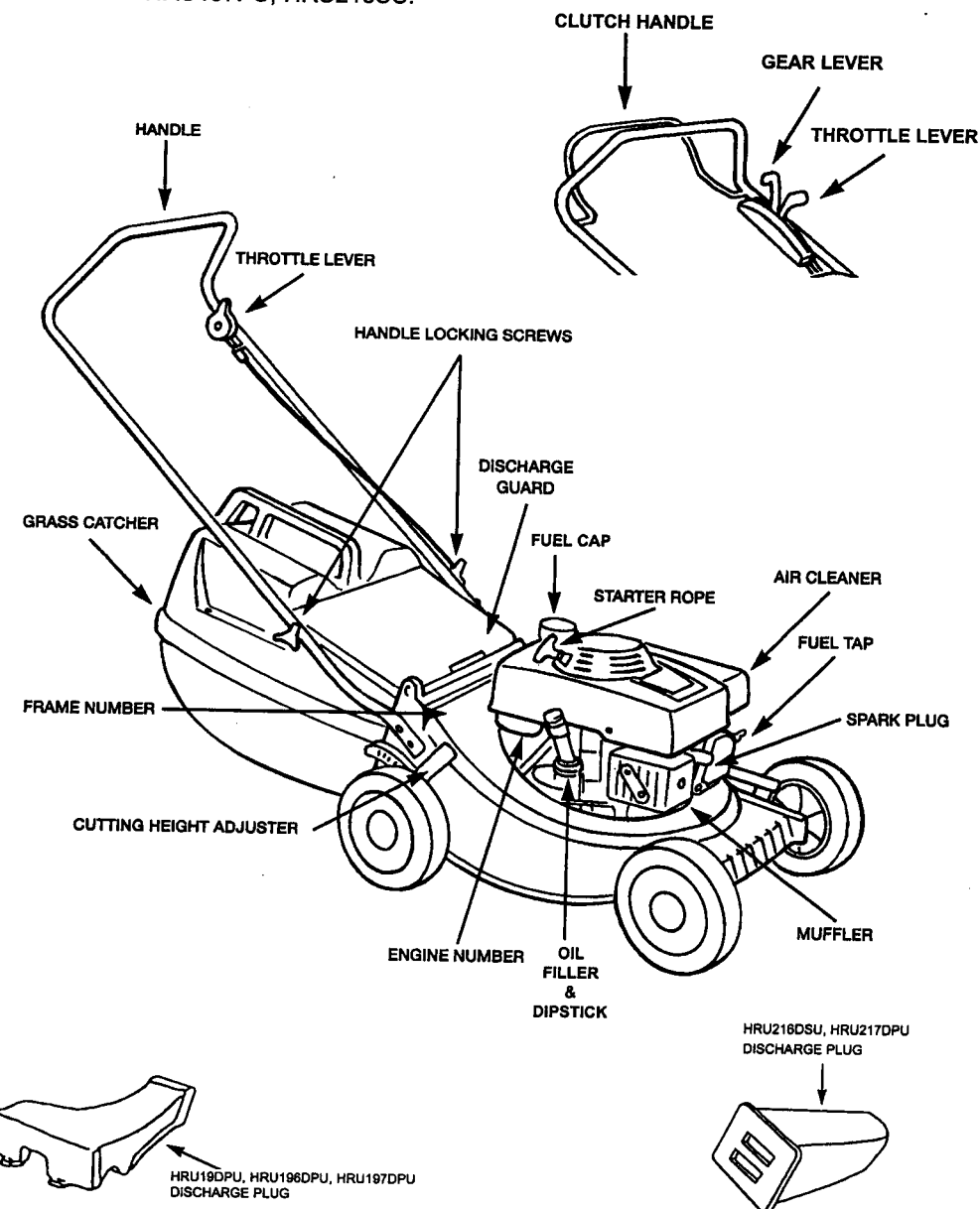
16. Store the mower in a well ventilated place away from naked flames, such as may be found in hot water heaters.
17. Exercise caution when handling the engine or exhaust system following use. These parts of the mower heat up during use and may cause injury.
18. Do not over speed the engine or alter governor settings. Excessive speed is dangerous and may cause injury and shortens mower life.
19. You should wear suitable eye protection when operating a mower.
20. Turn the fuel off at the conclusion of mowing and reduce the throttle setting during engine run-out.
21. Store fuel in a cool place in a container specifically designed for the purpose. In general, plastic containers are unsuitable.
22. Stop the engine, disconnect the spark plug cap and inspect the mower:
 - (a) If the mower begins to vibrate abnormally; or
 - (b) after striking a foreign object.
23. Never cut grass while walking backwards.
24. Stop the engine before pushing a mower across gravel drives, walks or roads.
25. Walk while mowing, never run.
26. Mow across the face of a slope, NEVER up and down the face of slopes. Exercise extreme caution when changing direction on slopes. Do not mow on steep slopes.
27. Exercise caution when lifting or carrying a mower. Never pick up or carry a mower when it is operating.
28. Never use the mower unless:
 - 1) On Models HRU19RPU, HRU196PU, HRU197PU, HRU216SU the grass catcher is fitted.
 - 2) On Models HRU19DPU, HRU196DPU, HRU197DPU, HRU216DSU, HRU217DPU the grass catcher or discharge plug is fitted.

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Component Identification

NOTE: Discharge plug optional extra for models HRU19RPU, HRU196PU, HRU197PU, HRU216SU.

HRU216SU & HRU216DSU HANDLE COMPONENT IDENTIFICATION



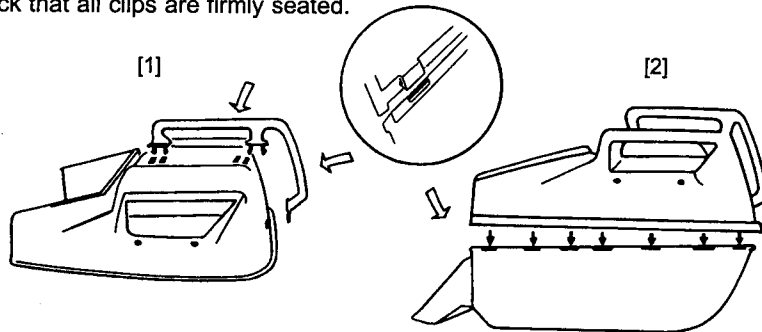
Setup Instructions

Grass catcher: HRU19RPU, HRU19DPU, HRU196PU, HRU196DPU, HRU197PU, HRU197DPU

Your grass catcher has been left dismantled for ease of packing and transportation.
Catcher component check list: Handle x1, Top cover section x1 & Lower cover section x1.

To assemble, simply clip each item together. First take the handle and place the clips into the three locating holes on the top cover section. Be sure that the clips are firmly seated [1].

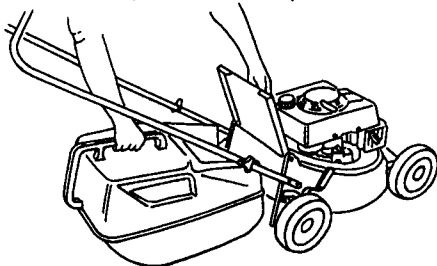
Next take the top cover section and position directly over the lower section [2]. Starting from the rear, place each clip through the locating holes and push firmly together. Be sure to check that all clips are firmly seated.



NOTE: The clips are not designed to come apart once they have been locked together. Do not attempt to unclip as this may damage the grass catcher.

Fitting of grass catcher

Raise the discharge guard and place the lower tongue of the catcher over the rear axle. Tilt catcher upward and lower the discharge guard over the top of catcher, making sure that the discharge guard seats firmly over raised lip section.



! WARNING Always ensure engine is stopped before fitting or removing grass catcher.

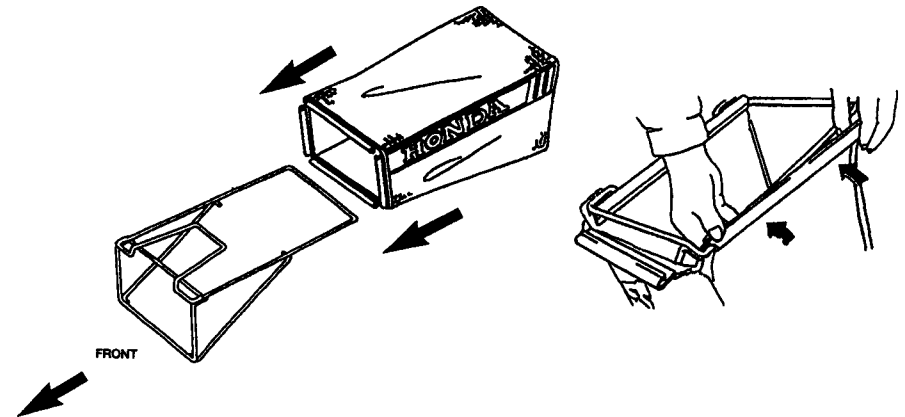
Setup Instructions

Grass catcher: HRU216SU, HRU216DSU, HRU217DPU

Your grass catcher has been left dismantled for ease of packing and transportation.

Catcher component check list: Metal frame work x 1 & Fabric grass bag x 1

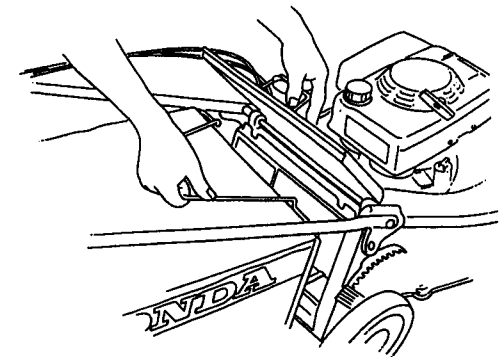
To assemble the catcher simply slide the fabric over the metal framework and attach the four nylon clips to the metal frame as shown below.



Fitting of grass catcher

Raise the discharge guard and hook the edges of the metal frame work to the ridge on top of the rear chute, then lower the discharge guard.

! WARNING Always ensure the engine is stopped before fitting or removing the catcher.

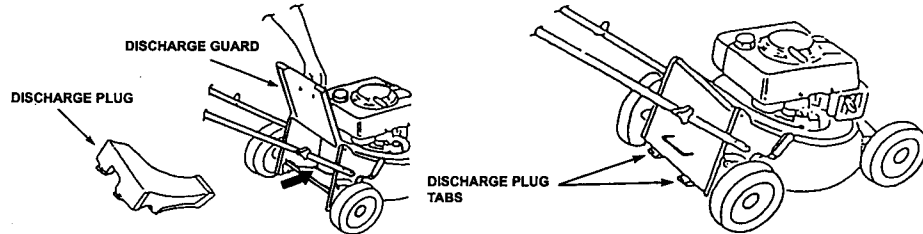


Setup Instructions

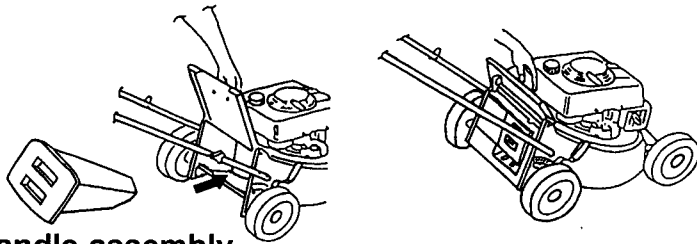
Setup instructions

Discharge plug installation: HRU19DPU, HRU196DPU & HRU197DPU

1. Ensure engine is stopped.
2. Raise discharge guard and insert discharge plug at the base of the rear chute.
3. Close discharge guard and ensure tabs protrude from discharge guard on 19" models.



Discharge plug installation: HRU216DSU, HRU217DSU



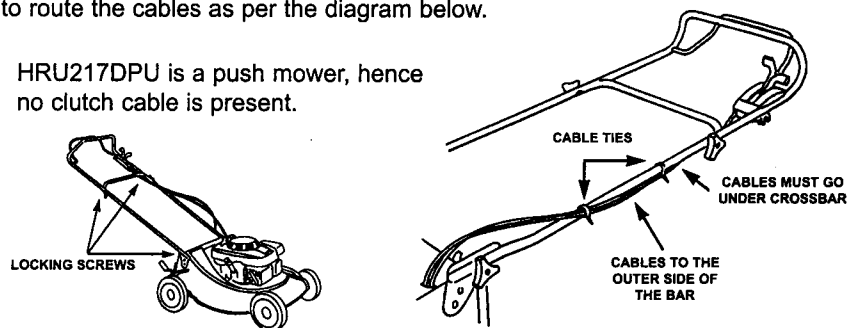
Mower handle assembly

HRU216SU, HRU216DSU, HRU217DPU

The handle assembly comes in 2 sections (upper and lower). The upper section has the controls and cables already fixed to it. The lower section is fitted to the mower first with the long bolt and locking screws. The upper section is then fitted to the lower using the shorter bolts and locking screws.

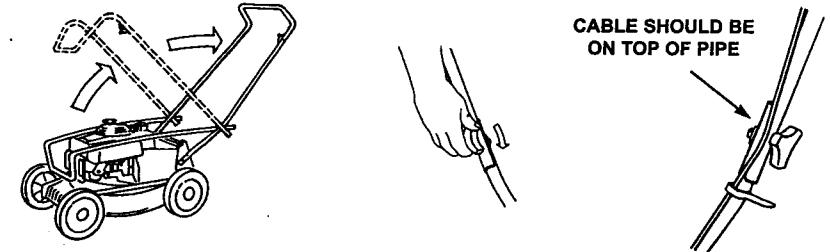
Take care to route the cables as per the diagram below.

NOTE: HRU217DPU is a push mower, hence no clutch cable is present.



Setup Instructions

HRU19RPU, HRU19DPU, HRU196PU, HRU196DPU, HRU197PU, HRU197DPU



Fold back the handle to the upright position and tighten the locking screws on each side. To fold handle down, loosen the locking screws and fold handle forward over the mower.
NOTE: Make sure the throttle control cable is lying on top of handle pipe to prevent fouling when handle is folded forward.

Engine preparation

Place the mower on level ground. Remove the oil filler cap and fill the engine with the recommended oil to the UPPER mark on the dip stick.

Recommended oil is **Honda Premium Engine Oil 10W 30** (API classification SG up to SJ)
Engine oil capacity is: 0.65 litres (HRU196PU, HRU196DPU, HRU216SU, HRU216DSU)
See Diagram 1

0.55 litres (HRU19RPU, HRU19DPU, HRU197PU, HRU197DPU, HRU217DPU) See Diagram 2

NOTE: Do not screw dipstick in when checking oil level.

DIAGRAM 1

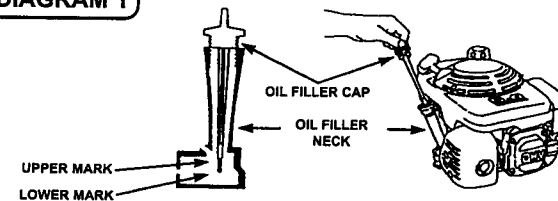
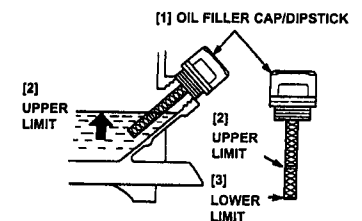


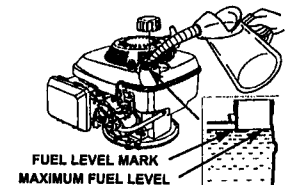
DIAGRAM 2



Fuel tank

Fill the fuel tank with fuel. Unleaded fuel only should be used. For safety warnings and refuelling procedures refer to Safety Instructions, page 3.

NOTE: Fuel Tank capacity is 1.1 litres (HRU19RPU, HRU19DPU, HRU197PU, HRU197DPU, HRU217DPU)
Fuel Tank capacity is 1.5 litres (HRU196PU & HRU196DPU)
Fuel Tank capacity is 2.0 litres (HRU216SU & HRU216DSU)



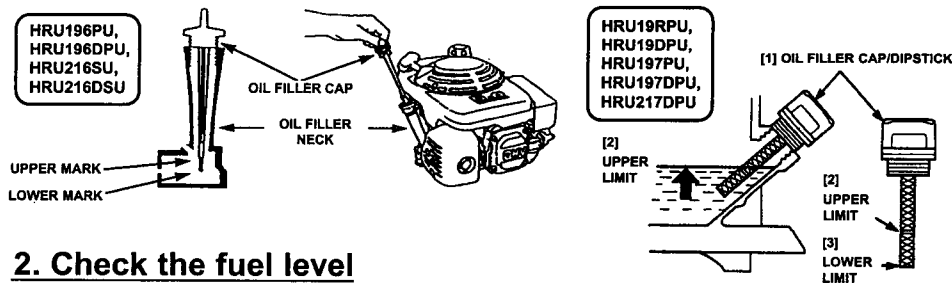
Important: Before you start the mower

Before you start the mower

1. Check the engine oil

NOTE: Do not screw dipstick in when checking oil level.

Ensure the engine is stopped and place the mower on level ground. Remove the oil filler cap and check the oil level using the dip stick. If the level is low add the recommended oil to the UPPER mark on the dip stick. Do not over-fill. Excess oil will result in power loss and smoking. Never use the mower if the oil level is low. This will result in serious engine damage.

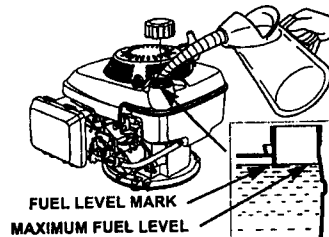


2. Check the fuel level

Use unleaded fuel only. Never use an oil/fuel mixture or dirty fuel. Avoid getting dirt, dust and water in the fuel tank.

! WARNING

- Fuel is extremely flammable and explosive under certain conditions. Refuel in a well ventilated area with the engine stopped.
- Do not smoke or allow flames or sparks in the area where the mower is refuelled or where fuel is stored.
- Be careful not to spill fuel when refuelling. Fuel vapour or spilled fuel may ignite. Make sure that any spilled fuel is dry before starting the engine.
- Do not overfill fuel tank and make sure the filler cap is securely closed after refuelling.
- Refuel only when engine is cold.
- Add fuel only up to the fuel level mark in the neck of the fuel tank.



3. Check the air cleaner

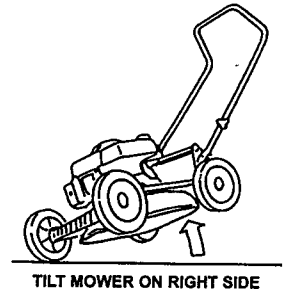
Remove the air cleaner cover and remove the air cleaner element. Inspect both the outer foam element and the inner paper element, if fitted, for dirt. Clean or replace if necessary. Refer to the **Maintenance Section** (page 22) for correct cleaning procedures.

Important: Before you start the mower

4. Check the cutting blades

! WARNING

Exercise caution when inspecting and checking the blades. Stop engine before tipping the lawn mower to inspect the blades, and remove fuel from fuel tank. Disconnect spark plug cap.



Tilt the mower over to the right side and inspect the cutting blades for damage.

Check the cutting blade bolts for tightness.

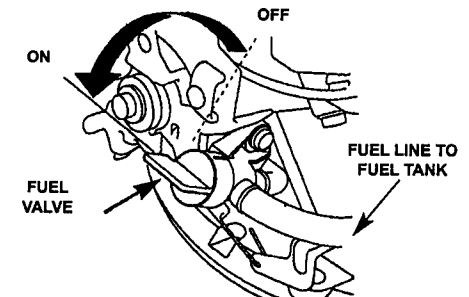
For blade replacement warnings and procedures refer to **Maintenance Section** (page 22).

Operational Procedures

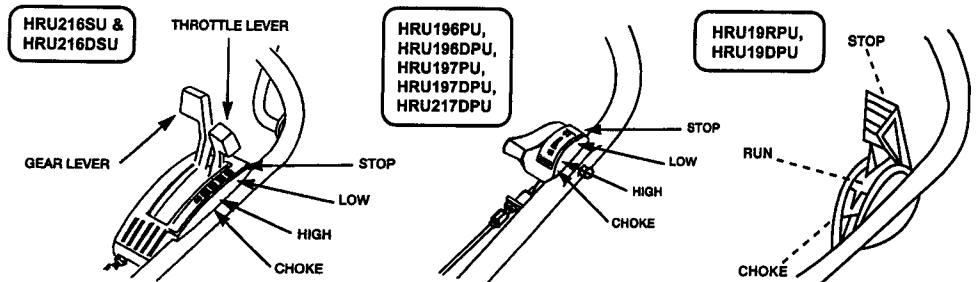
Starting and stopping the engine

Starting the engine

- Turn the fuel tap to the ON position.
- Place the mower on firm level ground. Move the throttle lever to the CHOKE position.



NOTE: Use of the CHOKE may not be necessary when the engine is warm or the air temperature is high. Move the throttle lever to LOW position instead.



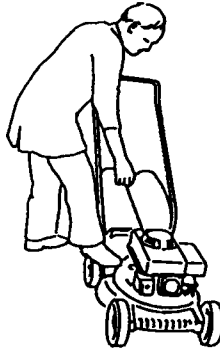
Operational Procedures

3. Hold handle bar firmly. Pull the starter rope lightly until you feel resistance, then pull briskly.

NOTE: Do not allow the rope to snap back. Return it by hand to prevent damage to the starter.

4. If the choke was used to start the engine, move the throttle lever to the FAST position as soon as the engine warms up enough to run smoothly without use of the choke.

5. For best engine performance, it is recommended that the engine be operated with the throttle in the FAST position.

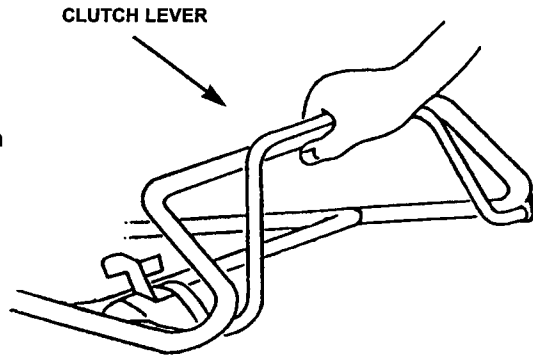


Clutch lever operation:

HRU216SU & HRU216DSU

The mower will only move forward when the clutch lever is squeezed against the handle bar.

The drive stops when the lever is released.



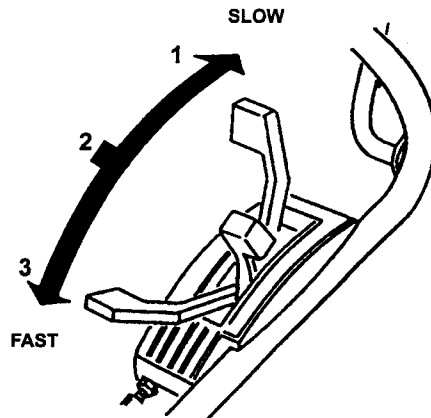
Gear lever operation:

HRU216SU & HRU216DSU

The gear lever has three positions enabling the speed of the mower to be varied according to the requirements of the operator and the conditions.

Ensure you are familiar with the mower speeds in each gear prior to the commencement of mowing.

NOTE: The speed must only be changed when the mower is stationary. Release clutch lever before changing gears.



Operational Procedures

Flooded engine

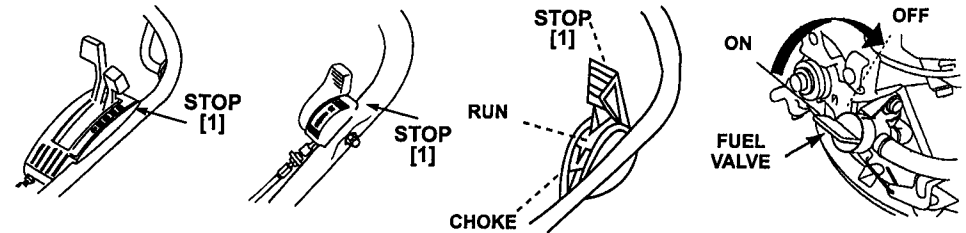
If the engine will not start after several pulls on the starter rope, the engine may be flooded.

To clear a flooded engine:

1. Move the throttle lever to the STOP position and turn off the fuel tap.
2. Remove and dry the spark plug. When reinstalling the spark plug, screw it in by hand until seated, then tighten a further quarter turn with the spark plug spanner (refer page 21).
3. Move the throttle lever to the FAST position. Turn on the fuel tap and repeat step (3) for Starting the engine (page 12).

Stopping the engine

1. Slowly move the throttle lever to the STOP position [1].
2. Turn the fuel tap to the OFF position (lever vertical). (HRU196 and 216 - push fuel tap towards the front of the mower).

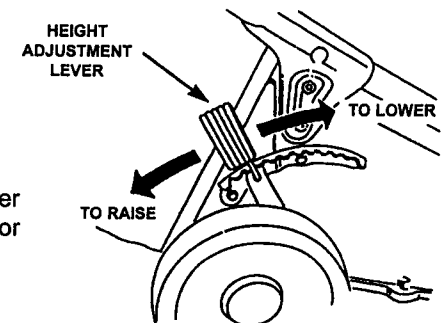


Cutting height adjustment

Eleven height settings are available to suit your requirements.

To adjust the height:

- Stop the engine.
- Pull the adjuster lever away from the adjuster panel and move towards the rear (to raise) or towards the front of the mower (to lower).



Operational Procedures

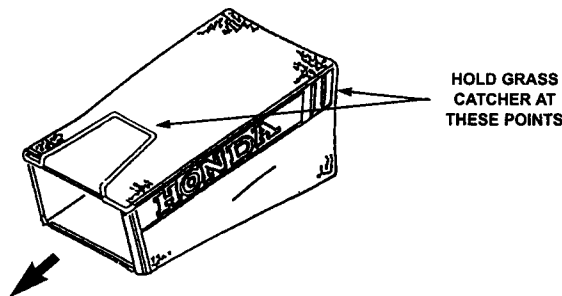
Using your mower

- Read and observe the Safety instructions on page 3 of this manual. Be alert.
- Always use the mower with the grass catcher (HRU19RPU, HRU196PU, HRU197PU & HRU216SU).
- Note HRU19DPU, HRU196DPU, HRU197DPU, HRU216DSU & HRU217DPU should be used with either grass catcher or discharge plug fitted.
- Adjust the throttle lever to the desired engine speed.
- Stand directly behind the mower and firmly hold the handle with both hands.
- Walk, never run with a mower. Control the direction by using the handle, not by foot pressure on the mower base.
- Always push, never pull the mower while the engine is running.
- Mow across slopes, NEVER up and down the face of slopes. Exercise extreme caution when changing direction on slopes. Do not mow on excessively steep slopes.
- It is advisable to start mowing at the high cutter height setting then lower to suit the desired cut.
- Empty the grass catcher regularly, particularly if the grass is long, as the catcher will fill more quickly.
- Never bind or strap the clutch lever to the handle (HRU216SU & HRU216DSU).

To empty the grass catcher: 21" MODELS - HRU216SU, HRU216DSU, HRU217DPU

Stop the engine.

- Lift the discharge guard and grasp the top handle of the catcher. Lift and pull back to remove the catcher. Empty contents.
- Check and clear the catcher. Also check the rear housing chute for blockages, particularly if grass is damp. Disconnect the spark plug cap and clear if necessary.



Operational Procedures

To empty the grass catcher: 19" MODELS - HRU19RPU, HRU19DPU, HRU196PU, HRU196DPU, HRU197PU, HRU197DPU

Stop the engine.

- Lift the discharge guard and grasp the top handle of the catcher. Lift and pull back to remove the catcher. Empty contents.
- Check and clear the catcher. Also check the rear housing chute for blockages, particularly if grass is damp. Disconnect the spark plug cap and clean if necessary.

Cleaning

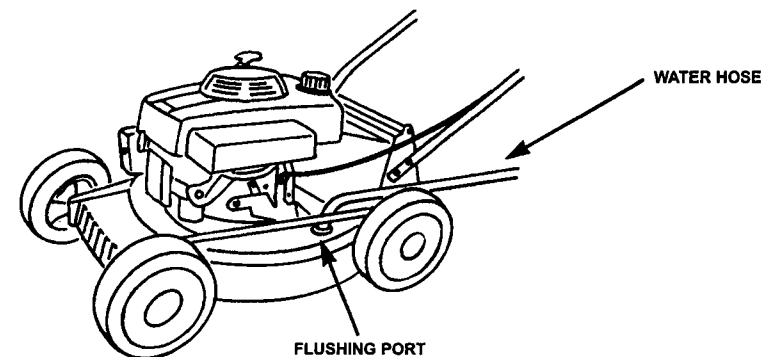
To maintain cutting performance and reduce fire hazard, the mower should be cleaned on completion of each mowing operation.

CAUTION: Do not hose the engine and its components.

To clear the underside of the mower base (all models), direct water through the flushing port with a garden hose while the engine is running at idle (see below). Be sure to clean out the catcher, particularly the vents on top of the catcher.

! WARNING

Do not place hands or feet under cutter deck at any time while engine is running. Do not tilt the mower while the engine is running.



Transportation and storage

Transportation

Turn the fuel tap OFF when transporting the mower.

! WARNING

To avoid spillage of fuel and oil do not tilt the unit, as spilled fuel may ignite.

The handle may be folded for convenience. Remove the grass catcher (if fitted), loosen the handle locking screws and fold the handle forward, as shown below.

Take care not to damage the cables when folding the handle bar.

Before Loading

If the engine has been running, allow it to cool for at least 15 minutes before loading the mower on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some materials.

Turn the fuel valve OFF. This will prevent carburetor flooding and reduce the possibility of fuel leakage. If equipped, remove the grass bag.

Loading and unloading

If a suitable loading ramp is not available, two people should load the mower on and off the transport vehicle while holding the mower level.

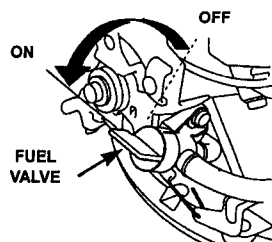
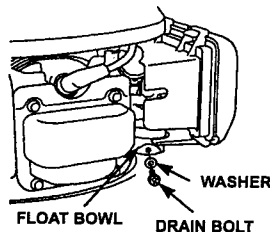
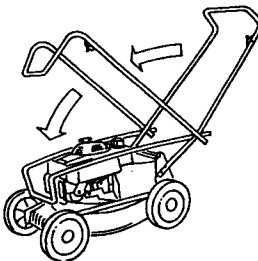
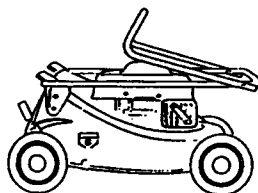
Position the mower so all four wheels are on the bed of the transport vehicle. Tie the mower down with rope or straps, and block the wheels. Keep the tie-down rope or straps away from the controls, adjustment levers, cables and the carburetor.

Storage

Use the following procedures if mower is to be stored for an extended period (3 mths or more).

Draining the fuel tank and carburettor

1. Remove the carburettor bowl drain bolt and washer with a 10mm wrench, and drain the carburettor bowl fuel into an approved fuel container.
2. Do not force the carburettor bowl off the carburettor body.
3. Move the fuel tap to the ON position. This will allow the fuel tank to drain through the carburettor bowl.
4. After draining carburettor and fuel tank, install the drain bolt and washer and tighten securely. Be sure the carburettor bowl is firmly seated against the carburettor body before tightening the drain bolt.



Transportation and storage

! WARNING

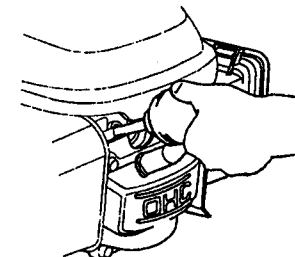
Gasoline is highly flammable and explosive and you can be burned or seriously injured when handling fuel.

TO AVOID INJURY:

- Stop engine and keep heat, sparks and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

Engine oil

1. Change engine oil (refer **Maintenance Section**, page 19).
2. Remove the spark plug and pour 5-10cc of clean engine oil into the cylinder. Using the starter rope, crank the engine a few revolutions slowly to distribute the oil in the cylinder, then reinstall the spark plug.



POURING OIL INTO CYLINDER

If your mower will be stored with fuel in the fuel tank and carburettor, it is important to reduce the hazard of fuel vapour ignition. Select a well ventilated storage area away from any appliance that operates with a flame, such as a furnace or water heater. Also avoid any area with a spark producing electric motor, or where power tools are operated.

If possible, avoid storage areas with high humidity, because they may promote rust and corrosion.

If there is fuel in the fuel tank, leave the fuel valve in the OFF position.

Keep the mower level during storage. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the engine to keep out dust.

NOTE: A hot engine and exhaust system can ignite or melt some materials. Do not use sheet plastic as a dust cover. A non-porous cover will trap moisture around the engine, promoting rust and corrosion.

Removal from storage

1. Check your mower as described in the "Before You Start The Mower" section of this manual (refer page 10).
2. If the fuel was drained during storage preparation, fill the tank with fresh fuel. If you keep a container of fuel for refuelling, be sure it contains only fresh fuel. Fuel oxidises and deteriorates over time, causing hard starting.
3. If the cylinder was coated with oil during storage preparation, the engine will smoke briefly at start-up. This is normal.