

# HONDA

## Lawn Tractor

### HT3810



OWNER'S MANUAL

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Thank you for purchasing a Honda Lawn Tractor.

This manual covers the operation and maintenance of the Honda HT3810 Lawn Tractor, type SA (side discharge).

Honda Motor Co., Ltd. reserves the right to make changes at any time without notice and without incurring any obligation.

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This manual should be considered a permanent part of the lawn tractor and should remain with the lawn tractor when sold.

Pay special attention to statements preceded by the following words:

**WARNING** Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

**CAUTION:** Indicates a possibility of personal injury or equipment damage if instructions are not followed.

**NOTE:** Gives helpful information.

If a problem should arise, or if you have any questions about the lawn tractor, consult an authorized Honda dealer.

**WARNING** Honda lawn tractors are designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the lawn tractor. Failure to do so could result in personal injury or equipment damage.

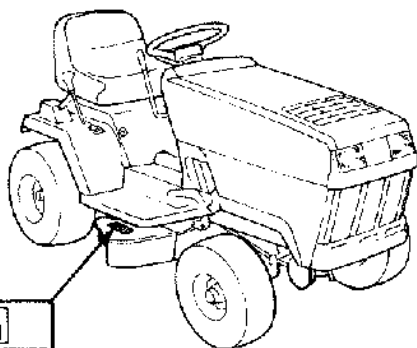
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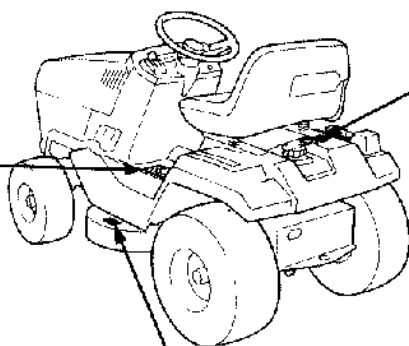
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# 1. WARNING LABEL LOCATIONS



## **WARNING**

- KEEP HAND AND FEET AWAY FROM MOWER OR DISCHARGE GUARD WHILE BLADES ARE TURNING.
- DO NOT OPERATE MOWER WITHOUT DISCHARGE GUARD.
- CLEAR LAWN OF DEBRIS AND OBJECTS.
- DO NOT MOW NEAR PEOPLE OR PETS. OBJECTS MAY BE THROWN FROM MOWER.



## **WARNING**

GASOLINE IS FLAMMABLE.  
STOP ENGINE, AVOID  
HEAT, SPARKS, AND  
OPEN FLAME WHEN  
REFUELING.

## **WARNING**

- READ OWNER'S MANUAL BEFORE OPERATING.
- OPERATOR ONLY. DO NOT CARRY PASSENGERS.
- MAXIMUM SAFE OPERATING ANGLE 10 DEGREES. (5% GRADE)



- 10' MAX
- REDUCE SPEED WHEN TURNING OR OPERATING ON SLOPES.
- STOP ENGINE BEFORE REMOVING GRASS CATCHER OR CLEANING DISCHARGE CHUTE.
- KEEP ALL SHIELDS AND SAFETY DEVICES IN PLACE.
- KEEP PEOPLE AND PETS AT A SAFE DISTANCE WHILE OPERATING.
- THIS LAWN TRACTOR IS NOT LEGAL FOR USE ON PUBLIC STREETS OR HIGHWAYS.

## **WARNING**

KEEP HANDS AND FEET AWAY FROM ANY PART OF MOWER DECK WHILE BLADES ARE TURNING.

## 2. GENERAL SAFETY

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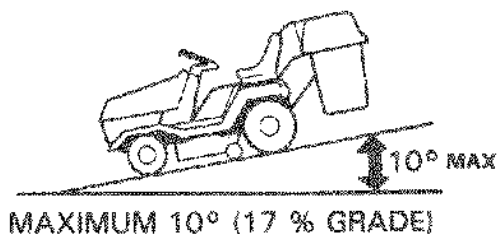
### LAWN TRACTOR SAFETY

**WARNING** Operating a lawn tractor requires special efforts on your part to ensure your safety and the safety of others. Know these requirements before you operate the lawn tractor.

### SAFE OPERATING RULES

- Always make a pre-operation inspection (page 13) before you start the engine. You may prevent an accident or equipment damage.
- Know how to stop the engine and blades quickly. Thoroughly understand operation of all controls.
- Never permit anyone to operate the lawn tractor without proper instructions.  
Children should not be permitted to operate this lawn tractor.
- To prevent serious injury, never put your hands or feet under the cutter deck.
- Do not remove any guards, warning labels, shields or safety devices. They are installed for your safety.
- This lawn tractor is intended for use on relatively flat terrain. Do not use on sloped surfaces exceeding 10 degrees (17 % grade). This angle may be further reduced by the condition and type of surface.

Maximum safe operating angle



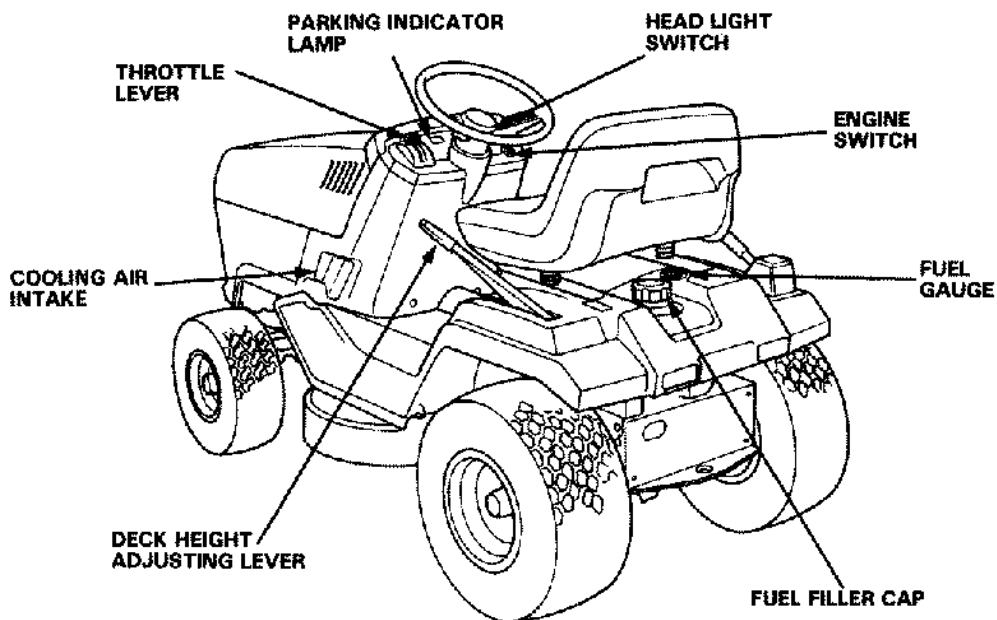
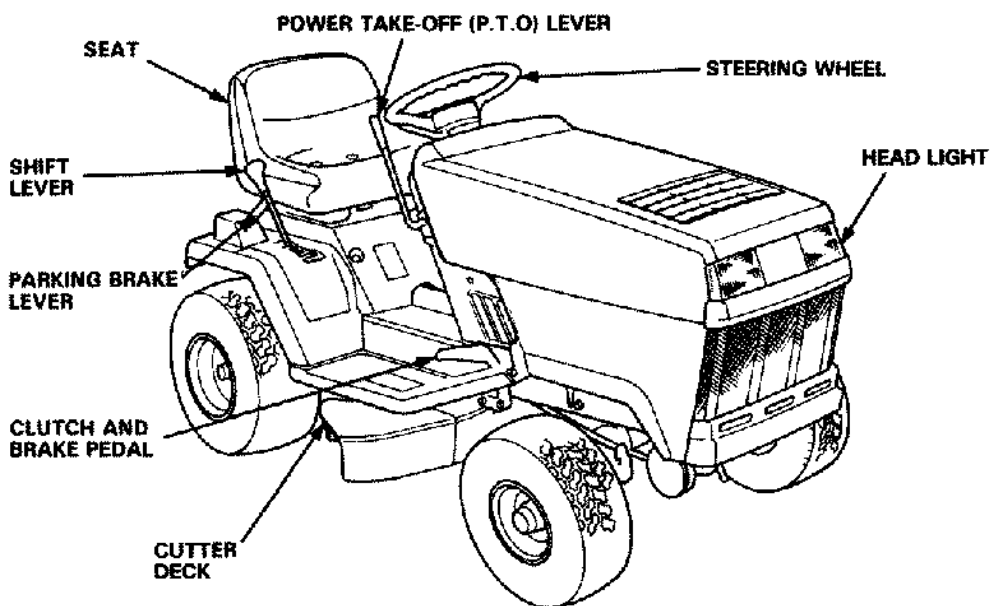
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- If mowing on a sloping surface, always drive up and down the face of the grade. Never turn or drive across the face of the slope.
  - To prevent loss of control or overturning, always reduce speed and exercise extreme caution when operating on sloping or uneven surfaces. Avoid turning or stopping on sloping surfaces; see page 25 for special instructions.
  - Do not back down or rapidly accelerate up a sloping surface; see page 25 for special instructions.
  - Watch out for rocks, roots, holes and other obstacles.

## **BEFORE MOWING**

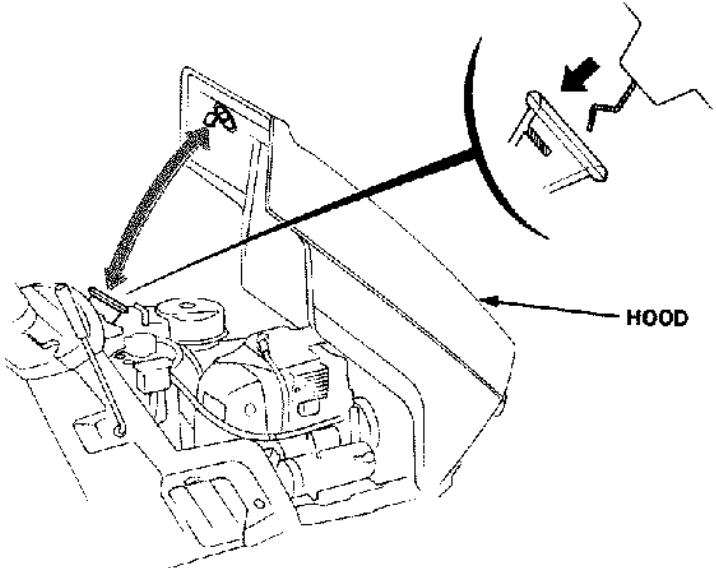
- Always ensure the area in front of and behind the lawn tractor is clean of people, pet and debris before starting.
- Before mowing, always clear the lawn of stones, sticks or other debris. These objects could be thrown out by the spinning blade and cause an injury or equipment damage.
- Select a safe operating speed (gear position) for the area to be mowed. 5th gear should be used only while driving to and from storage area.
- Stop engine before removing the grass bags or cleaning the discharge chute.

### 3. COMPONENT IDENTIFICATION

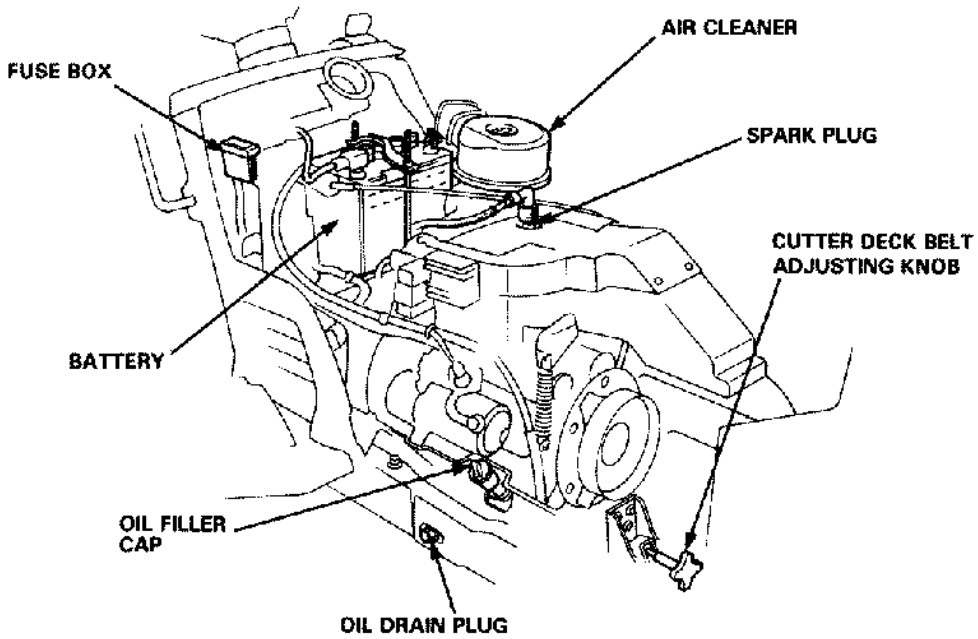
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**Engine compartment**



**HOOD**





## 4. CONTROLS

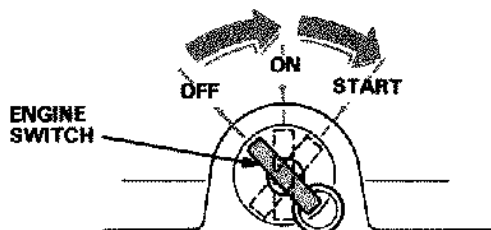
### 1. Engine switch

#### WARNING

Always remove the key from the engine switch whenever the lawn tractor is unattended to prevent children or unauthorized persons from starting the engine.

This lawn tractor is equipped with an automotive type ignition switch, which controls all the electrical circuits. The switch is located on the right-hand side of the control panel.

Key positions: "START" to start the engine  
"ON" to run the engine after starting  
"OFF" to stop the engine.

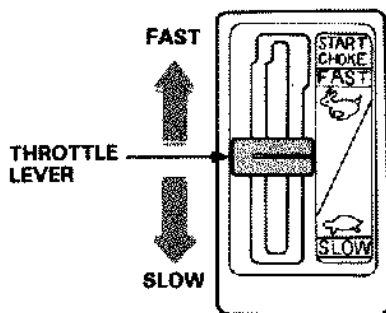


NOTE: The starter motor will not work unless the shift lever is in NEUTRAL and the P.T.O lever is in the OFF (Disengaged) position.

### 2. Throttle lever

The throttle lever controls engine speed from SLOW (idle) to FAST (max speed), and START (CHOKE) is for starting a cold engine.

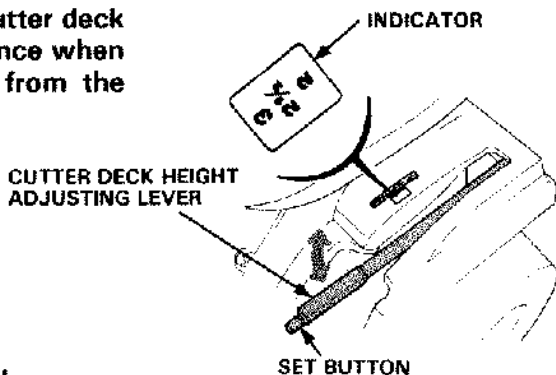
NOTE: When the engine is warm or the air temperature is high, move the throttle to SLOW as soon as the engine starts.



### 3. Cutter deck height adjusting lever

This lever is used for setting grass cutting height. To adjust the cutting height, press the set button, raise or lower the lever until the desired cutting height appears on the indicator, and then release the set button.  
Cutting height: 1-1/2, 2.0, 2-1/2, 3.0, 3-1/2, 4.0 in.

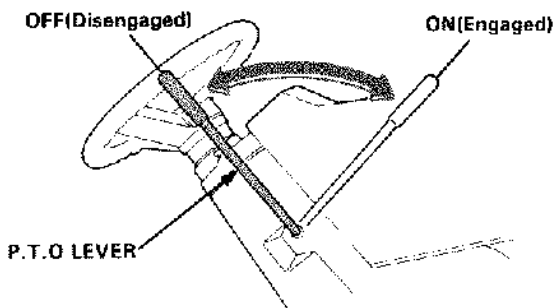
**CAUTION:** Fully raise the cutter deck for maximum ground clearance when driving the tractor to and from the mowing area.



### 4. Power Take-Off (P.T.O) lever

This lever engages and disengages the power take-off clutch to drive the blades.

Lever positions: ON (Engaged)..... Blades turn  
OFF (Disengaged) ..... Blades stop



**NOTE:** An inter lock switch prevents the engine from starting unless the P.T.O lever is in the OFF position.

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## 5. Shift lever

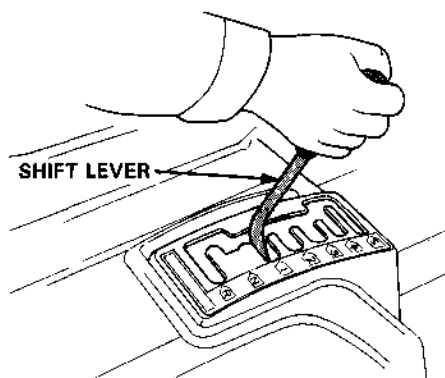
This lever is used to select one of the five forward speeds, neutral, or reverse. The drive clutch is automatically disengages while the lever is being moved. The clutch will then engage automatically when put into gear unless the clutch and brake pedal is depressed.

**CAUTION:** Bring the tractor to a complete stop before shifting from a forward speed to reverse, or from reverse to a forward speed. Shifting between forward and reverse speeds while the tractor is moving can cause transmission damage.

When shifting from one forward speed range to another while moving, do not force the shift lever and do not shift up or down more than one slot at a time.

**NOTE:** The tractor will pull away from a stop in any speed range. No shifting is necessary.

5th speed is not recommended for mowing but may be used for driving the tractor one area to another.

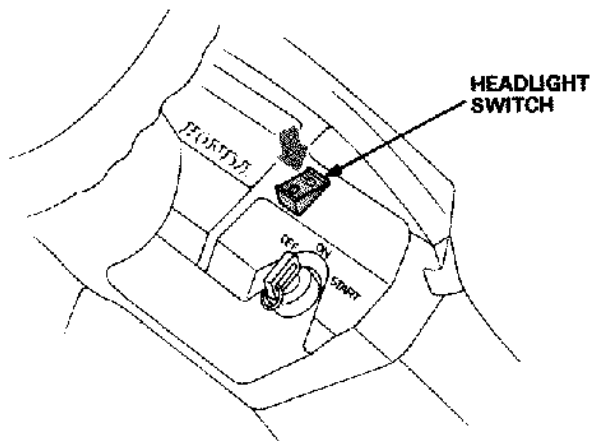


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## 6. Headlight switch

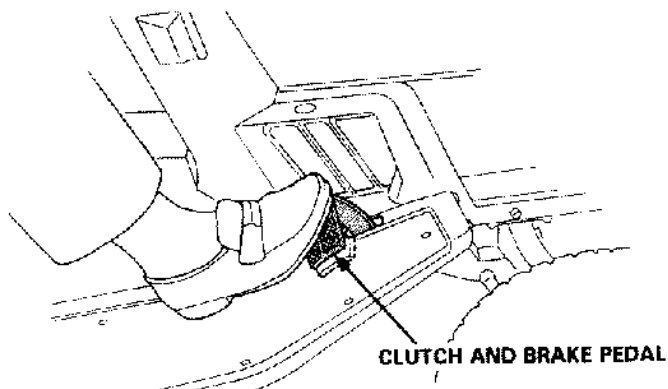
The switch turns the head lights ON and OFF.

**CAUTION:** To avoid discharging the battery, run the engine with the throttle lever in the FAST position while using the headlights.



## 7. Clutch and brake pedal

Depressing the pedal will first disengage the tractor drive clutch. As you continue to depress the pedal, the brake will be applied to stop the tractor.



When the pedal is released, the clutch will engage automatically.

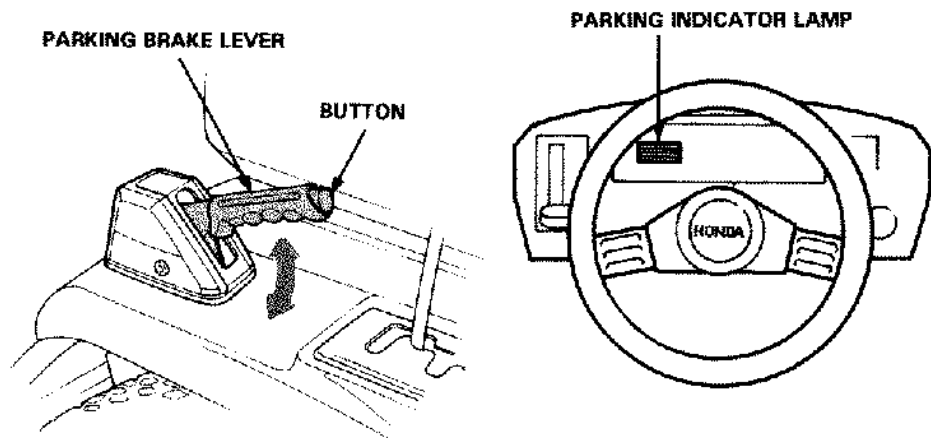
## 8. Parking brake lever

This lever is used to set the brake when the lawn tractor is parked. Pull the lever fully up until the ratchet locks, and be sure that the parking indicator lamp on the control panel is ON.

**NOTE:** The parking brake lever does not operate the automatic clutch. Always put the transmission in neutral, or turn off the engine switch before setting the parking brake. A warning buzzer will sound if the parking brake is engaged while the transmission is in gear and the engine switch is ON.

Pull the lever up slightly and press the lever button, lower the lever while holding the button in. The parking indicator lamp should go off.

**WARNING** Operating the lawn tractor with the parking brake set will result in severe damage to the brake lining, and could lead to a complete brake system failure.



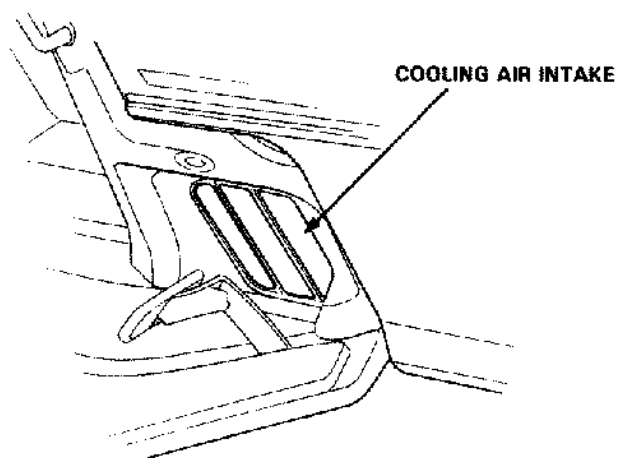
## 5. PRE-OPERATION CHECKS

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**WARNING** To prevent accidental start-up, remove the engine switch key, and disconnect the spark plug cap before performing pre-operation inspection.

### 1. Check the air intake screen

Remove grass and dirt from both R and L side SCREENS to prevent the engine overheating.



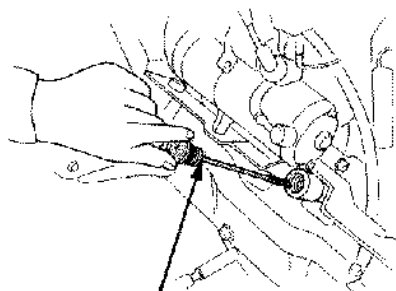
## 2. Check the engine oil level

### CAUTION:

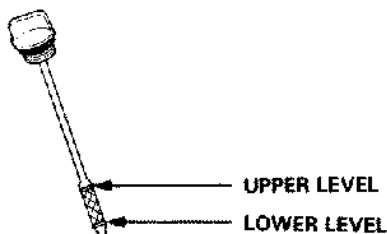
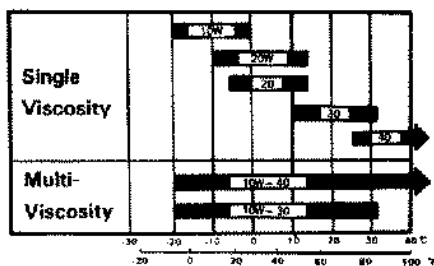
- Engine oil is a major factor affecting engine performance and service life. Non-detergent oil and 2-stroke engine oil are not recommended.
  - Running the engine with insufficient oil can cause serious engine damage.
- a. Place the lawn tractor on a level surface.
  - b. Open the engine hood, remove the oil filler cap and wipe the dipstick clean.
  - c. Insert the dipstick into the oil filler neck, but do not screw it in.
  - d. Check the oil level shown on the dipstick. If near or below the lower level mark, fill to the upper level mark with the recommended oil.

Use Honda 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturers' requirements for service classification SE or SF (Motor oils classified SE or SF will show this designation on the container).

SAE 10W-40 is recommended for general, all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.



OIL FILLER CAP



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### 3. Check the fuel level

Raise the seat and check the fuel gauge.

Refill the tank if the fuel level is low.

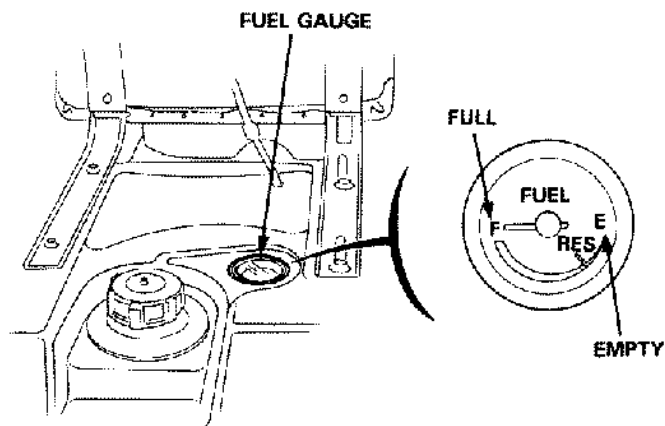
Use any regular grade automotive gasoline (unleaded gasoline is preferred) with a pump octane rating of 86 or higher.

Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

#### **WARNING**

- Gasoline 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 lawn tractor is refueled or where gasoline is stored.
- Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite; Wipe up any spilled fuel immediately, and make sure the area is dry before starting the engine.
- Do not overfill the tank. Fuel may expand and overflow onto the muffler. Make sure the filler cap is securely closed after refueling.

**CAUTION:** Gasoline substitutes are not recommended; they may be harmful to fuel system components.

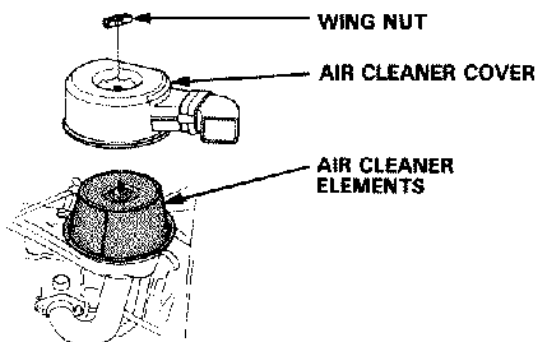




#### 4. Check the air cleaner elements


1. Remove the wing nut to remove the air cleaner cover.
2. Remove the air cleaner elements.

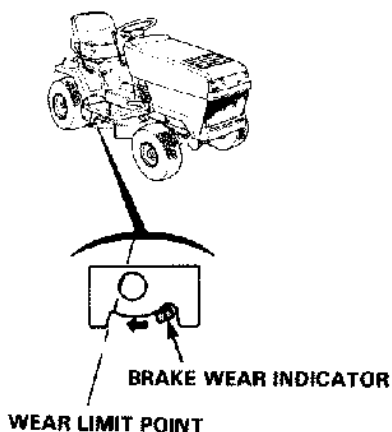
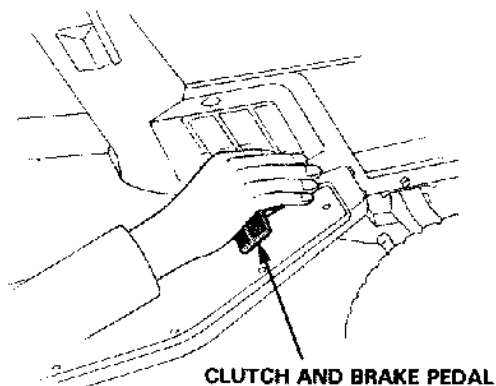
If the elements are dirty, follow the cleaning procedure described on page 36.



#### 5. Check brake lining wear

Inspect brake lining condition every time the lawn tractor is used. Press firmly on the clutch and brake pedal with your hand and then check the position of the brake wear indicator. If the indicator is near the wear limit point, take to an Authorized Honda Power Equipment Dealer for repair.

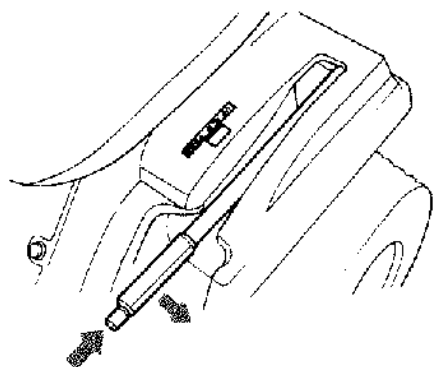
 Under no circumstances should the lawn tractor be operated if the brake lining is at the service limit.



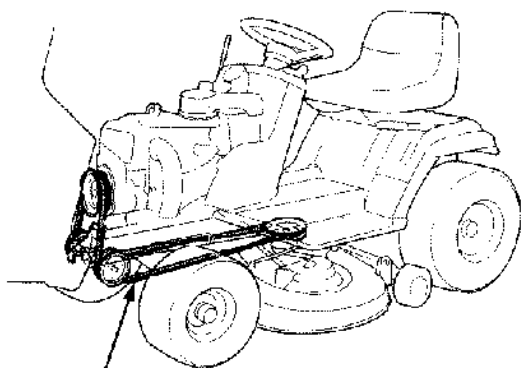
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## 6. Check the cutter deck drive belt.

1. Lower the cutter deck by using the cutter deck height adjusting lever, and open the engine hood.
2. Inspect the belt for wear or damage. If worn or damaged, replace the belt as described on page 43.



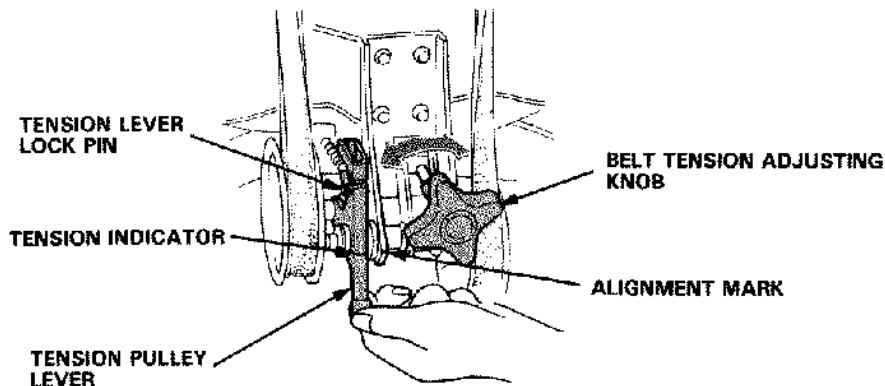
PUSH



CUTTER DECK DRIVE BELT

3. Check belt tension at the tension pulley lever. The mark on the lever should align with the tension indicator. If not, turn the adjusting knob to align the mark with the indicator.

**CAUTION:** Be sure the tension lever lock pin is in place before starting the engine.



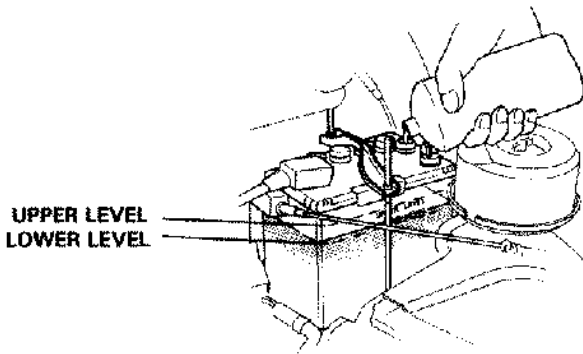
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## 7. Check the battery

Open the engine hood and check the battery electrolyte level.

The electrolyte level must be maintained between the upper and lower level lines on the side of the battery.

If the electrolyte level is low, remove the battery filler caps and carefully add distilled water to the upper level line.



### WARNING

- The battery contains sulfuric acid. Avoid contact with skin, eyes or clothing.

Antidote: **EXTERNAL** — Flush with water.

**INTERNAL** — Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call a physician immediately.

**EYES** — Flush with water and get prompt medical attention.

- Batteries produce explosive gases. Keep sparks, flames and smoking materials away. Always shield the eyes when working near batteries.

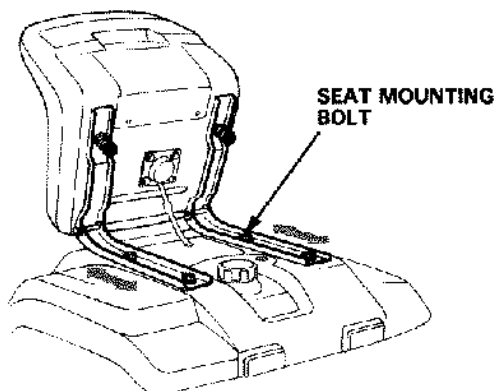
### CAUTION:

- Use only distilled water in the battery. Tap water will shorten the service life of the battery.
- Do not fill the battery beyond the **UPPER** level. If overfilled, electrolyte may overflow and corrode tractor components. Immediately wash off any spilled electrolyte.

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## 8. Adjust the seat position

1. Loosen the seat mounting bolts.
2. Move the seat to a suitable position to operate the lawn tractor.
3. Tighten the seat mounting bolts securely.



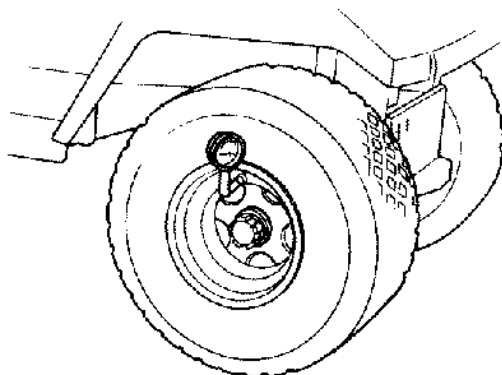
## 9. Check the tire pressure

**CAUTION:** Improper inflation may lead to premature tire failure. Never exceed the manufacturer's maximum tire pressure specification.

Check the tire pressure with an air pressure gauge.

Pressure: Front.... 0.9~1.1 kg/cm<sup>2</sup> (12.8~15.6 psi)

Rear .... 0.6~0.8 kg/cm<sup>2</sup> (8.5~11.4 psi)



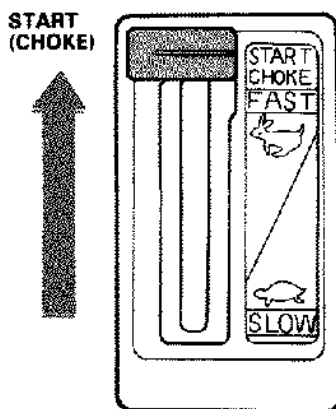
## 6. OPERATION

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### Starting the engine

**Warning** Exhaust gas contains poisonous carbon monoxide gas. Never run the engine in an enclosed area. Be sure to provide adequate ventilation.

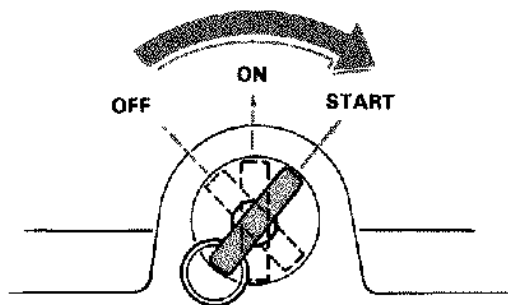
1. Sit on the seat and check that the transmission is in neutral and the P.T.O lever is in the OFF (Disengaged) position.
2. Move the throttle lever to the START (CHOKE) position.



**NOTE:** When the engine is warm or the air temperature is high, move the throttle to **SLOW** as soon as the engine starts.

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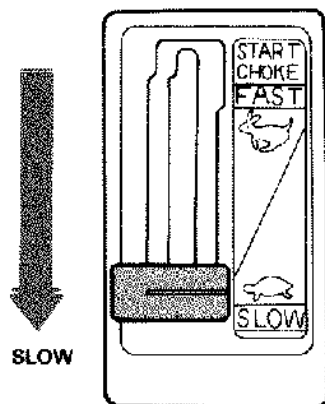
3. Turn the engine switch to START.



**CAUTION:** Do not use the starter motor for more than 5 seconds. If the engine fails to start, release the key, and wait at least 10 seconds before operating the starter motor again.

4. After the engine starts, let the engine switch return to ON.

5. After the engine warms up, move lever to SLOW position.

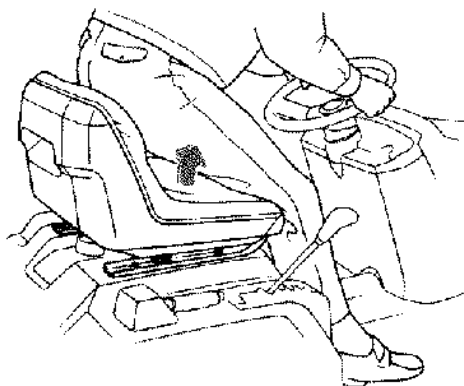


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## 6. Seat safety switch operation check.

1. Move the P.T.O lever to ON (Engaged).  
Rise off the seat — the engine should stop immediately.
2. Return the P.T.O lever to OFF (Disengaged) and restart the engine.  
Release the parking brake and place the shift lever in the 1st speed range. While driving slowly, rise off the seat — the engine should stop immediately.

Perform this check on level ground, never on a slope.

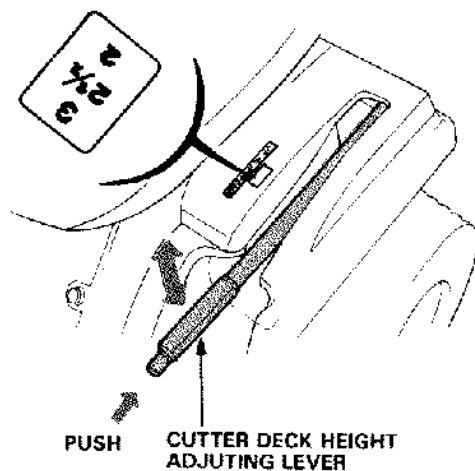


## Mowing

**WARNING** Before operating this lawn tractor you should read and understand the safe operating rules. See page 4.

NOTE: For best results, wait until the lawn is dry before mowing.

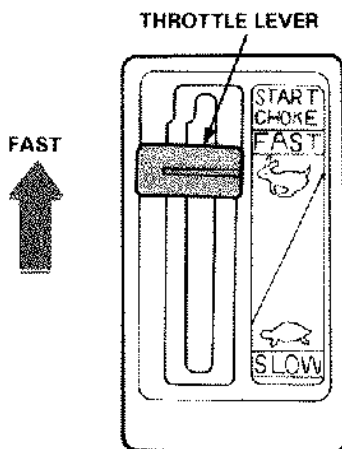
1. Set the cutter deck height adjusting lever to the desired cutting height.



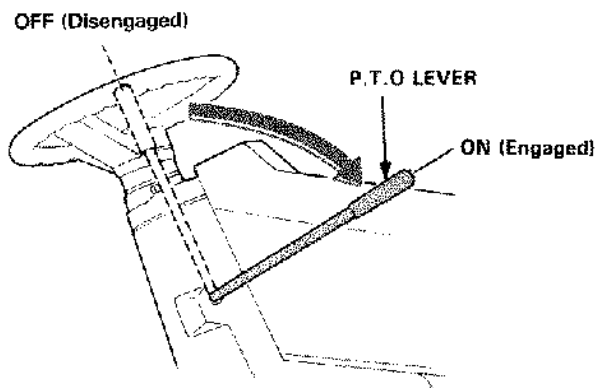


2. Move the throttle lever to the FAST position.

NOTE: The tractor can be operated at intermediate throttle settings if desired, but always maintain sufficient engine speed for good pulling power and efficient blade operation. Use the shift lever to select the desired driving speed range.

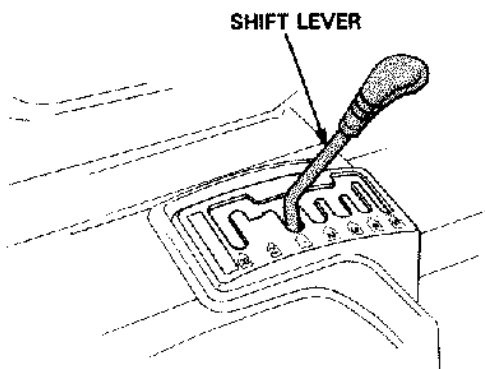


3. Move the P.T.O lever to the ON (Engaged) position.



- 
4. Move the shift lever to select the desired gear position. The clutch will engage automatically in about one second.

**CAUTION:** If clutch engagement occurs immediately or takes longer than one second, have the lawn tractor serviced by your HONDA dealer.



**WARNING** If possible, avoid stopping the lawn tractor while driving uphill. However, if it is necessary to stop, follow the special procedure:

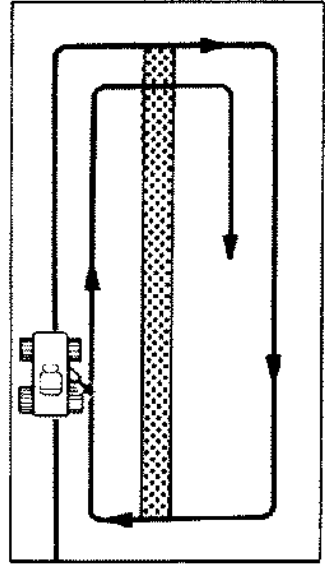
#### UPHILL STARTING PROCEDURE

- A. Set parking brake.
- B. Apply pressure to clutch and brake pedal.
- C. Move throttle lever to mid range.
- D. Shift transmission to 1st gear position.
- E. Release the clutch and brake pedal.
- F. Wait until clutch engages.
- G. Then release the parking brake lever.

**WARNING** If the parking brake lever is released before the clutch and brake pedal, the lawn tractor may roll downhill before the clutch engages. This may cause the lawn tractor to tip over.

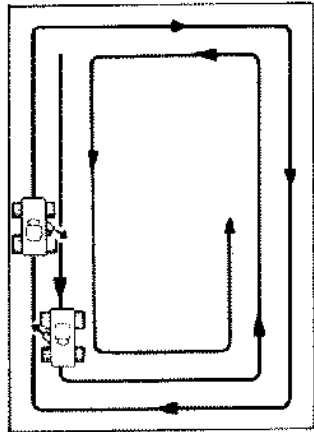
## 5. Cutting Patterns

- To concentrate grass cuttings for easy pick up, mow from the outside to inside of the lawn in a clockwise direction.



**WARNING** These cutting pattern are only recommended for flat, level lawn surface. See safe operating rules page 4.

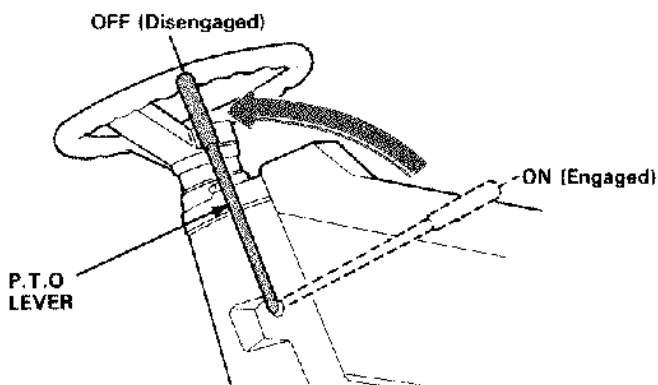
- To spread grass cuttings evenly, mow the outside perimeter of the lawn in a clockwise direction, and then mow the rest of the lawn counterclockwise.



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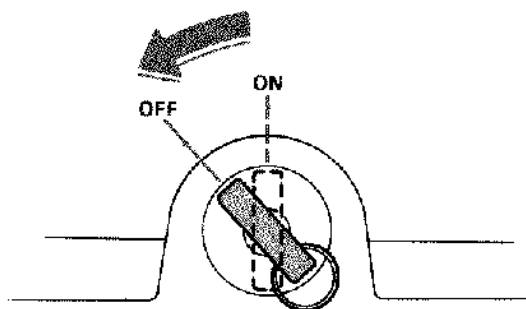
## Stopping the Engine

- In an emergency;  
Turn the engine switch OFF.
- In normal use;  
(1) Move the P.T.O lever to OFF (Disengaged).



- (2) Move the shift lever to the Neutral position.
- (3) Set the parking brake.
- (4) Turn the engine switch OFF.

**WARNING** Always remove the key from the engine switch whenever the lawn tractor is unattended to prevent children or unauthorized persons from starting the engine.



## 7. TRANSPORTING/STORAGE

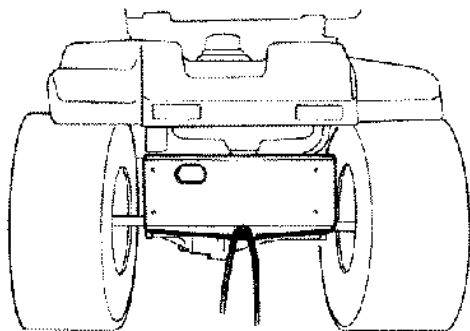
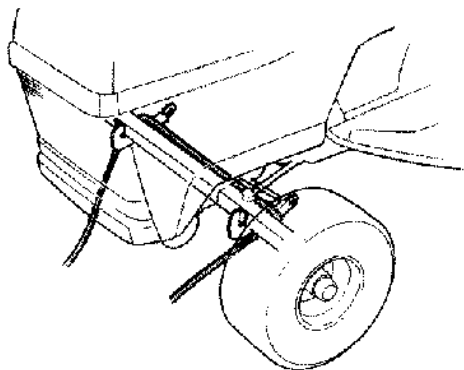
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### Transporting

Transport the lawn tractor flat and level.

Set the parking brake lever and tie the tractor down securely, using the tie down points shown below.

**WARNING** Spilled fuel may ignite. To avoid fuel and oil spillage, keep the tractor level when transporting.

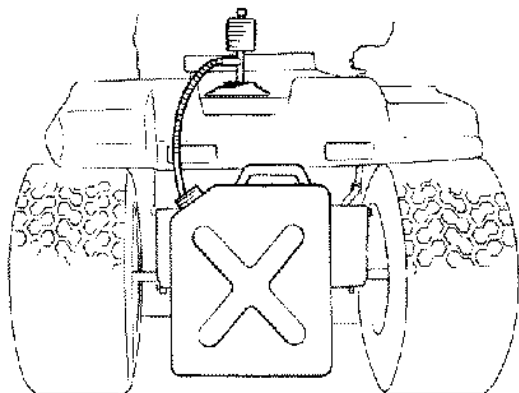


### Preparation for storage.

The following steps should be taken to protect the tractor whenever it will be stored for longer than 30 days.

1. Drain all gasoline from the fuel tank into a suitable gasoline container.

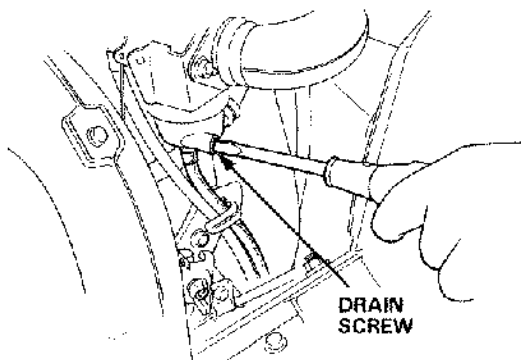
**WARNING** Do not drain the fuel tank when the engine and exhaust system are hot.



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Loosen the drain screw and drain the carburator into a suitable gasoline container. After draining, tighten the drain screw securely.

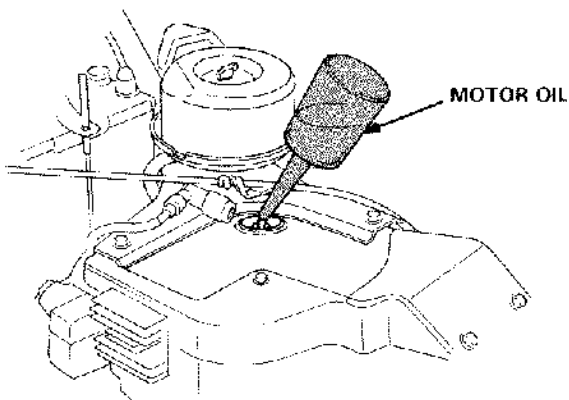
**Warning** Gasoline is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in the area.



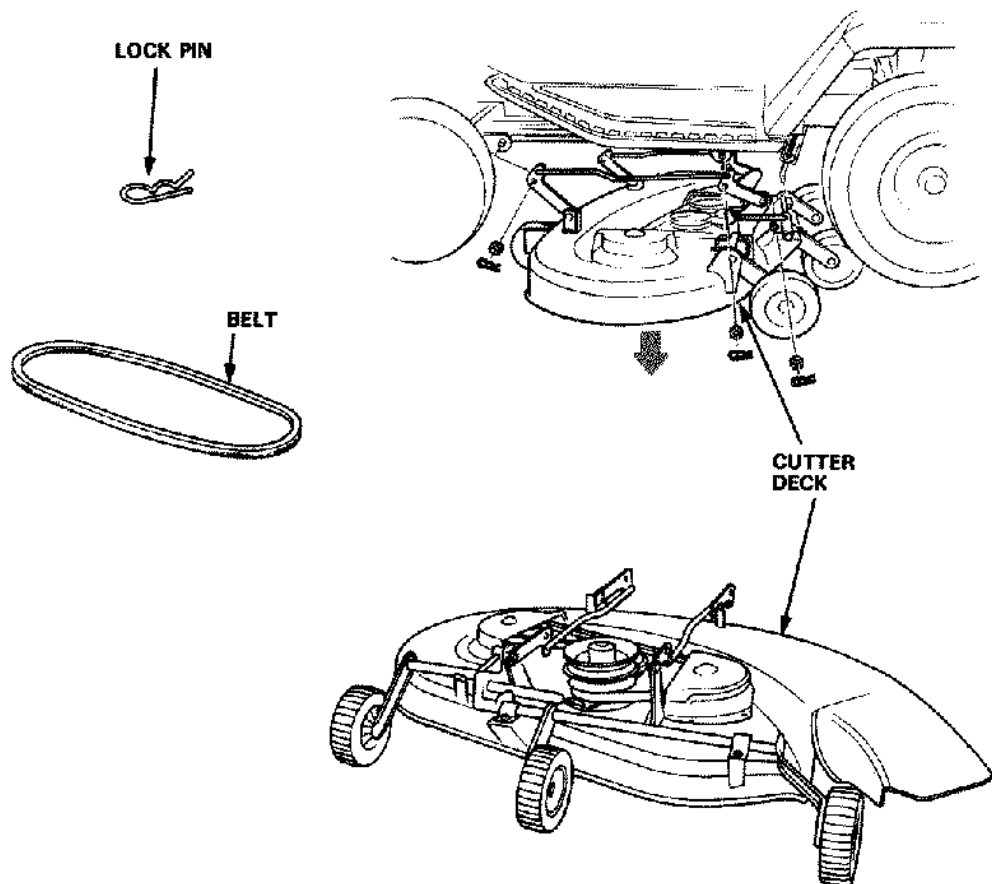
## 2. Charge the engine oil (See p. 35)

**NOTE:** If the lawn tractor will be stored for longer than 3 months, remove the spark plug and pour three tablespoons (approximately 1 oz.) of clean motor oil into the cylinder.

Turn the engine slowly by hand to lubricate the cylinder wall. Reinstall the spark plug.



3. Remove the battery and store in a cool, dry place. Recharge it once a month.
4. Lower the cutter deck, and release the drive belt tension pulley lever (see p. 17). Remove the six yellow colored lock pins (three on each side), and remove the cutter deck from the tractor.

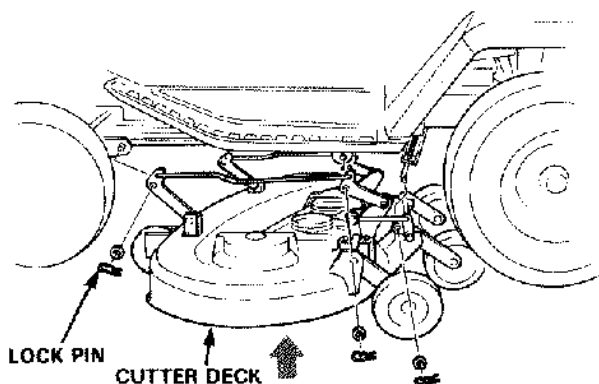


5. Turn the cutter deck upside down. Clean the underside of the deck with water, and dry thoroughly.

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6. For longer service and greater efficiency, keep the underside of the mower housing clean and free of accumulated grass clippings by washing it down with a hose after use and/or cleaning it with a wire brush and scraper. Remove any rust and apply a rust-resistant paint. Cleaning and rust prevention are especially important before seasonal storage.

7. Reinstall the cutter deck.



8. Store the tractor on a level surface in a dry, dust-free area with the parking brake lever set.

NOTE: For storage periods of one year or longer, the tractor should be supported by blocks at the jack points (See p. 42), so that the tires are off the floor.

9. Cover the tractor to keep out dust.

Check tire air pressure regularly during storage and inflate if necessary.



---

## Removal from storage

1. Check the battery electrolyte level (see p. 18). Fully recharge the battery, and install it in the tractor.
2. Remove the spark plug and check that it is clean and properly gapped (see p. 37).  
Turn the engine a few revolutions by hand without the spark plug.
3. Thread the spark plug in as far as possible by hand, then tighten it 1/8 to 1/4 turn further with the plug wrench.
4. Check the engine oil level (see p. 14).
5. Fill the fuel tank, and start the engine by following the starting instruction (see p. 20).

**NOTE:** If the cylinder was coated with oil, the engine will smoke at start up; this is normal.

## 8. MAINTENANCE

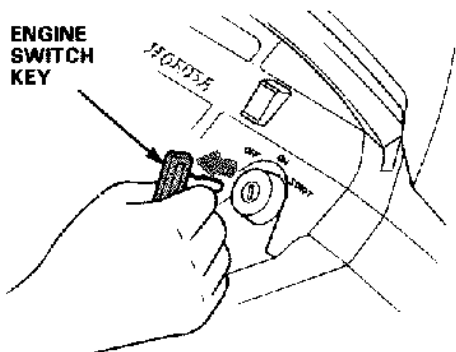


- Shut off the engine and set the parking brake before performing any maintenance.
- To prevent accidental start-up, remove the engine switch key and disconnect the spark plug cap.
- The lawn tractor should be serviced by an authorized HONDA dealer unless the owner has proper tools and service data and feels he is mechanically qualified.

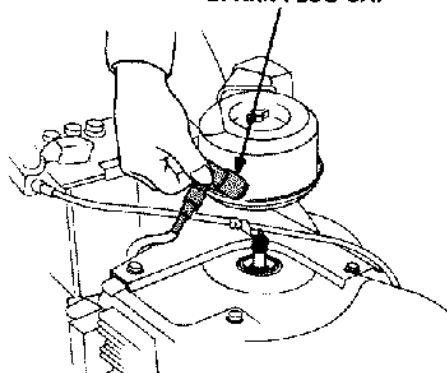
**CAUTION:** Use only genuine Honda parts or their equivalent for maintenance or repair. Replacement parts which are not of equivalent quality may damage the tractor.

Periodic inspection and adjustment of the Honda HT3810 is essential if high level performance is to be maintained. Regular maintenance will also ensure a long service life. The required service intervals and the kind of maintenance to be performed are described on the following page.

ENGINE  
SWITCH  
KEY



SPARK PLUG CAP



## Maintenance Schedule

Regular Service Period Performed at every indicated month of operating interval, whichever occurs first.		Each Use	First 3 months or 20 Hrs	Every 6 months or 50 Hrs	Every Year or 100Hrs	Every 3 years or 300 Hrs
Engine oil	Check level	○				
	Change		○		○	
Air cleaner element	Check	○				
	Clean			○*		
Seat switch operation	Check	○			●	
Cooling air intake	Clean	○				
Parking brake indicator lamp and buzzer operation	Check	○		●		
Battery electrolyte level	Check	○				
Tire pressure	Check	○				
Deck belt	Check (Adjust if necessary)	○				
Blade bolts tightness	Check		●	●		
Blade condition	Check					
Grass bag (O.P.)	Check-Clean	○				
Spark plug	Clean-Readjust				○	
Spark arrester (O.P.)	Clean				○	
Foot brake	Check	○				
	Adjust			●		
Transmission oil	Check level				●	
Shift lever	Check		●	●		
	Adjust			●		
Drive clutch	Check				○	
Brake and clutch bolts and nuts tightness	Check		●		●	
Fuel tank	Clean				●	
Fuel filter	Check (Replace if necessary)				●	
Fuel line	Check (Replace if necessary)					●
P.T.O. cable	Check-Adjust				●	
P.T.O. clutch	Check				●	
Throttle cable	Check-Adjust				●	
Parking brake	Check-Adjust			●		
Valve clearance	Check-Readjust					●
Combination chamber	Clean (Relap valves if necessary)					●
Front axle	Grease				●	
Engine fins and shroud	Clean					●

### NOTE:

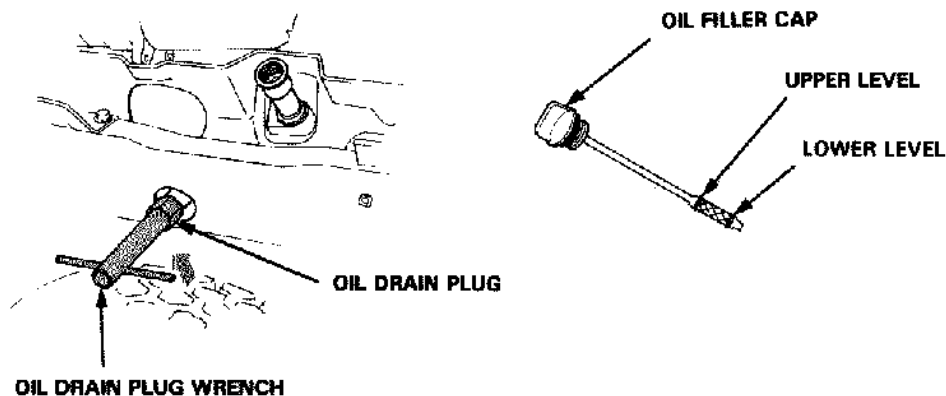
- \* Service the air cleaner more frequently when used in dusty areas.
- These items should be serviced by an authorized Honda dealer.  
See the Honda Shop Manual.

---

## 1. Engine oil change


**NOTE:** Drain the oil while the engine is still warm to assure rapid and complete draining.

1. Open the engine hood.
  2. Remove the oil filler cap and drain plug, and drain the oil into a suitable container.
  3. Retighten the drain plug securely.
  4. Refill to the upper level mark on the dipstick with the recommended oil (see p. 14). Tighten the oil filler cap securely.
- OIL CAPACITY:** 1.2ℓ (1.27 US qt)



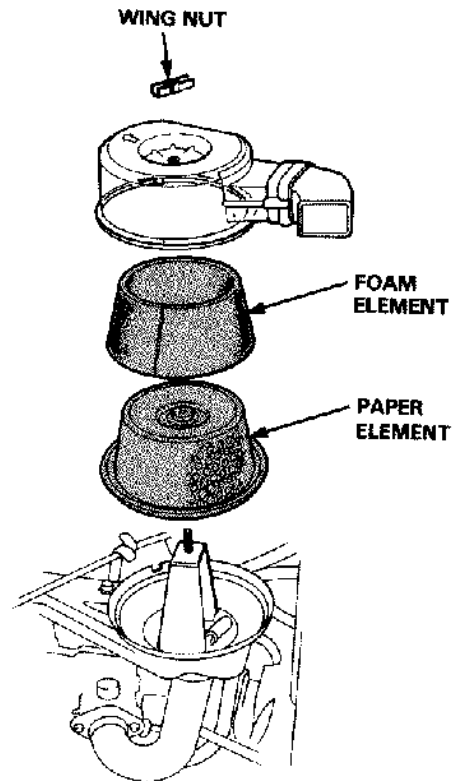
## 2. Air cleaner service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the engine in extremely dusty areas.

 Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

**CAUTION:** Never run the engine without the air cleaner. Rapid engine wear will result.

1. Open the engine hood.
2. Remove the wing nut and the air cleaner cover. Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.
3. Foam element: Clean in warm soapy water, rinse and allow to dry thoroughly. Or clean in high flash-point solvent and allow to dry. Dip the element in clean engine oil and squeeze out all the excess. The engine will smoke during initial start-up if too much oil is left in the foam.
4. Paper element: Tap the element lightly several times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out. Never try to brush the dirt off; brushing will force dirt into the fibers.



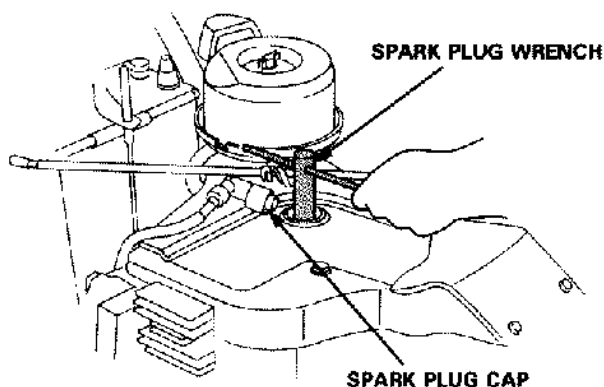
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### 3. Spark plug service.

Recommended spark plug: B4H. BR4H (NGK)  
W14F-U. W14FR-U (ND)

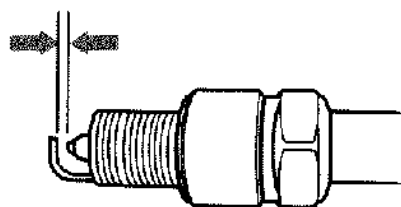
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Open the engine hood and remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use a spark plug wrench to remove the spark plug.



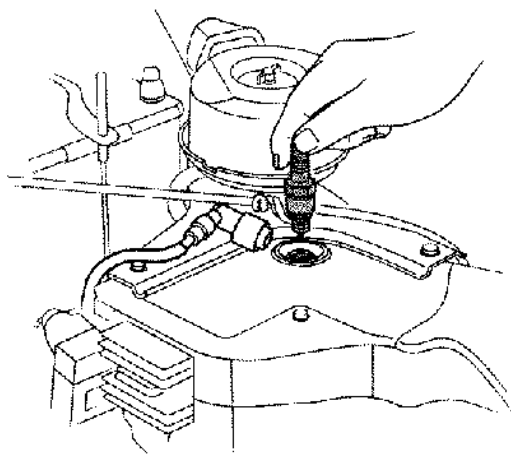
4. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
5. Measure the plug gap with a feeler gauge.  
The gap should be 0.6~0.7 mm (0.024~0.028 in). Correct as necessary by carefully bending the side electrode.

0.6~0.7 mm  
(0.024~0.028 in)



---

6. Thread the plug in by hand to prevent cross threading.



7. After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer.  
If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.

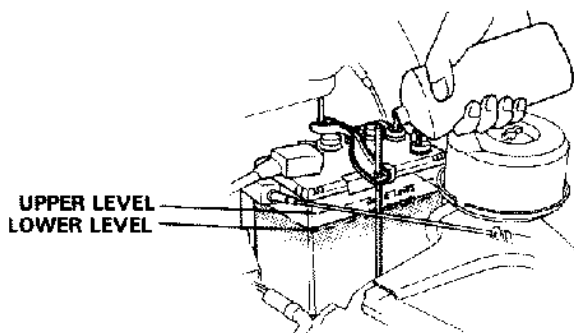
**CAUTION:**

- The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.
- Never use a spark plug with an improper heat range.

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#### 4. Battery electrolyte level check

Open the engine hood and check the electrolyte level in each battery cell. Fill the battery with distilled water to the upper level line. Never overfill the battery. Any corrosion around the positive and negative terminals should be washed off with a solution of baking soda and warm water. Dry the terminals and retighten the terminal bolts if necessary, then coat the terminals with grease.



#### **CAUTION**

- \* The battery contains sulfuric acid. Avoid contact with skin, eyes or clothing.

Antidote: **EXTERNAL** — Flush with water.

**INTERNAL** — Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call a physician immediately.

**EYES** — Flush with water and get prompt medical attention.

- \* Batteries produce explosive gases. Keep sparks, flames and cigarettes away. Always shield the eyes when working near batteries.

#### **CAUTION:**

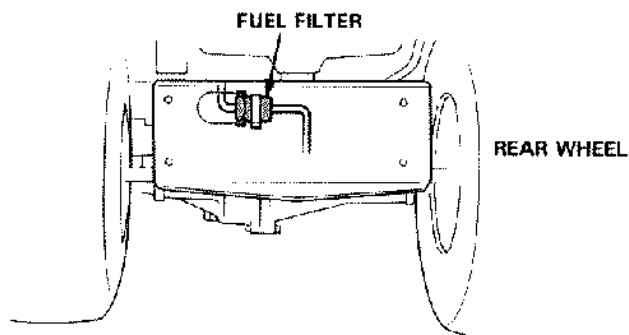
- Use only distilled water in the battery. Tap water will shorten the service life of the battery.
- Do not fill the battery beyond the **UPPER** level. If overfilled, electrolyte may overflow and corrode tractor components. Immediately wash off any spilled electrolyte.



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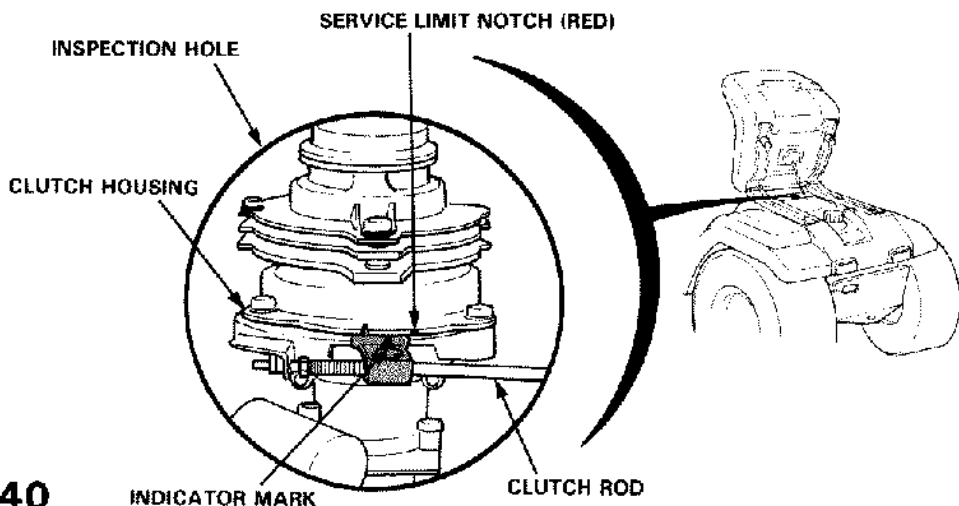
## 5. Fuel filter

Remove the fuel filter by pulling it out of its clip under the fuel tank and visually inspect it through the opening the hitch plate. Replace the filter if it is contaminated with dirt or water.



## 6. Drive clutch inspection

1. Place the shift lever in the 2nd forward speed slot.
2. Raise the seat and remove the inspection hole cap.
3. Visually check the position of the indicator mark on the clutch rod; it should be between the two notches on the clutch housing. If the indicator has moved past the red notch on the clutch housing, the clutch disk must be replaced.

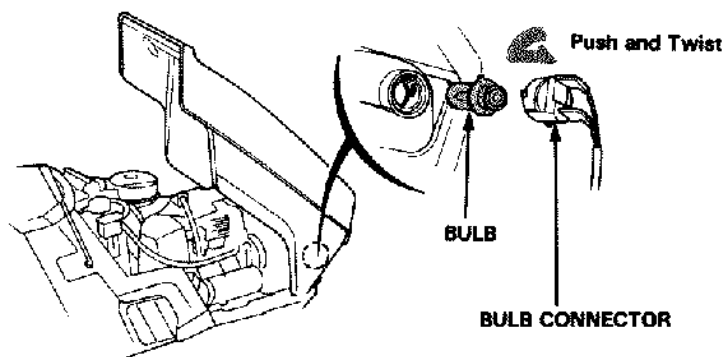


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## 7. Headlight bulb replacement

Push and twist the bulb connector counterclock wise, then remove the connector and bulb.

When installing the bulb, align the projection on the base of the bulb with the groove in the headlight case.



## 8. Wheel removal

Block wheels securely.

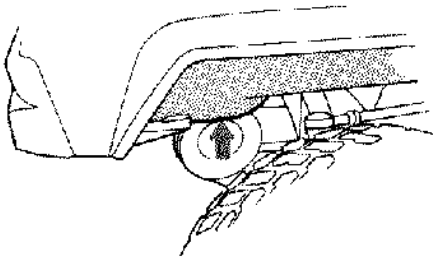
1. Remove the center cap and cotter pin.
2. Remove the wheel hub nut with a 19 mm socket.
3. Raise the wheel off the floor using a jack and remove the wheel.

### WARNING

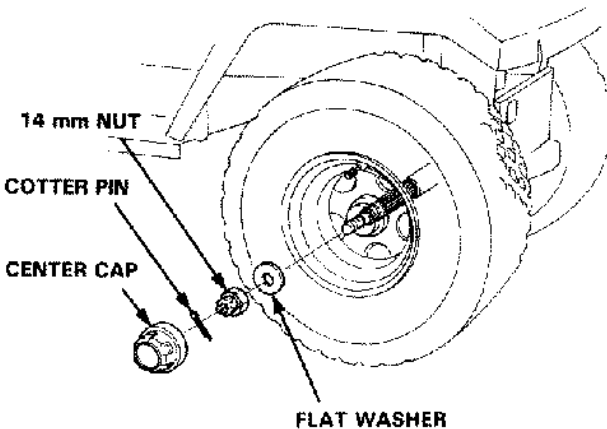
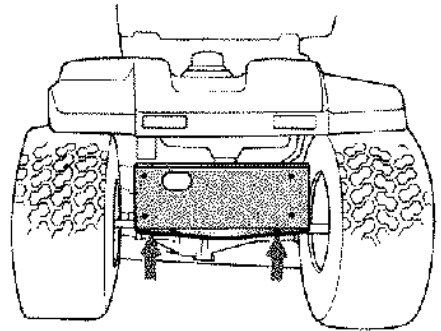
- Do not attempt to remove a wheel unless the lawn tractor is on firm and level ground.
- Do not attempt to remove or replace a tire unless you have the equipment and knowledge to do so properly.

Jack points

Front



Rear



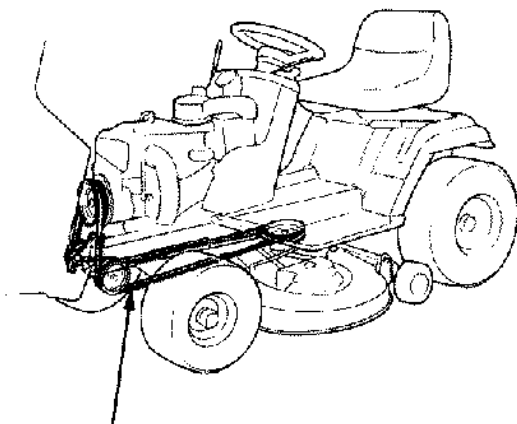
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**CAUTION:** Never attempt to change drive belts while the engine is running. Remove the engine key from the ignition and disconnect the spark plug cap to prevent accidental start up.

**CAUTION:** Wear heavy gloves to protect your hands when replacing drive belts or when working with cutter blades.

## 9. Cutter deck belt replacement

1. Lower the cutter deck.
2. Loosen the belt tension adjusting knob, and pull the tension pulley lever forward.
3. Remove the belt.
4. Install the new belt, push in the tension pulley lever and adjust belt tension as discribed on page 17.



CUTTER DECK DRIVE BELT

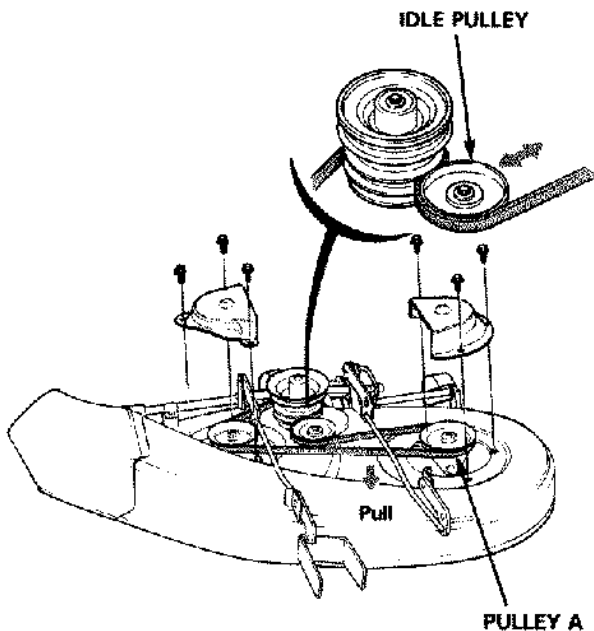
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## 10. Blade belt replacement

1. Lower the cutter deck, remove the six lock pins (see p.30) and remove the cutter deck.
2. Remove the six 8 mm bolts and remove the pulley covers.
3. Pull the belt off pulley A, hold the belt securely and slowly release the idle pulley.

**CAUTION:** If the belt is not released slowly, the idle pulley will move suddenly and could injure your hand.

4. Remove the belt from the other pulleys, and replace the belt.



---

## 11. Blade sharpening and belt check

**CAUTION: Wear heavy gloves to protect your hands.**

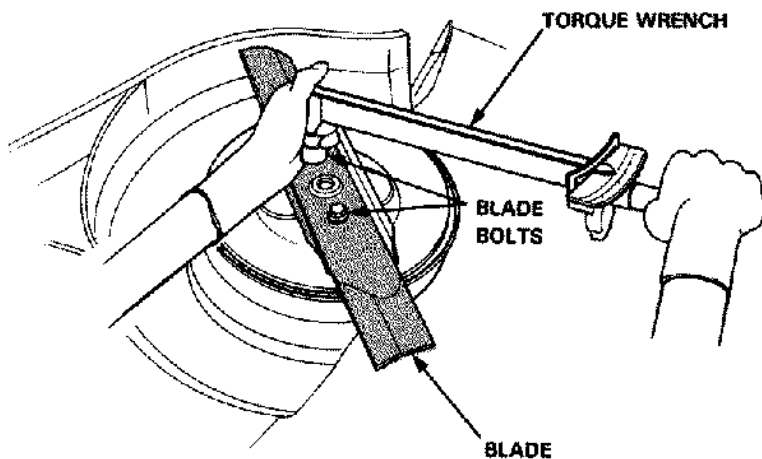
1. Remove the cutter deck and turn it upside down. (see p.30)
2. Loosen the blade bolts to remove the blades.
3. Sharpen the blade cutting edges with a file. File the top side only and maintain the original bevel. To maintain proper blade balance an equal amount of material must be removed from each end.

### CAUTION

- Blade balance is critical to proper mower performance. Replace any blade that is damaged or out of balance.
- Use only a genuine HONDA replacement blade or equivalent.

**NOTE:** Left and right blades are not interchangeable.

4. Clean any dirt and grass from around the blade shafts and inside the deck.
5. Install the blades. Tighten the bolts securely and install the mower deck. Blade bolt tightening torque: 5.0—6.0 kg-m (36.2—43.4 ft-lb)

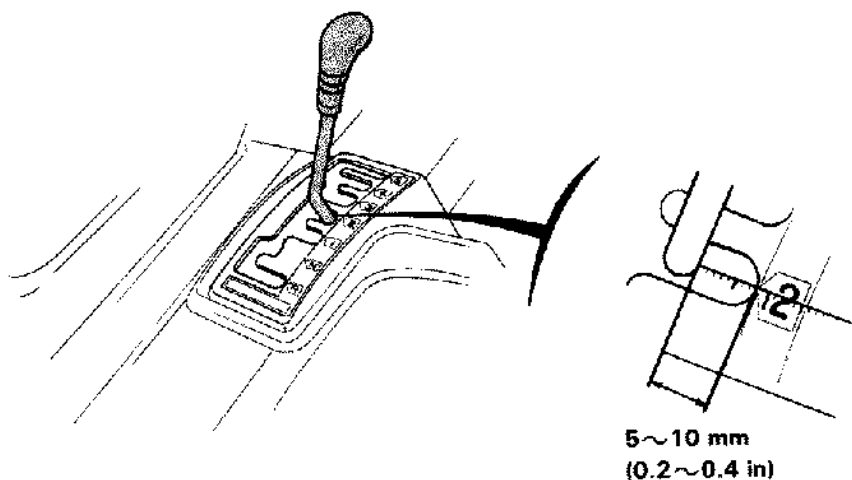


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## 12. Shift lever freeplay

Place the shift lever in the 2nd speed range. Measure the distance between the edge of the shift lever and the gear plate, as illustrated below. If the freeplay is less than 4 mm (0.16 in) or more than 11 mm (0.43 in), have the lawn tractor serviced by an authorized Honda Dealer.

**CAUTION:** Transmission or clutch damage may result if the lawn tractor is operated with incorrect shift lever freeplay.

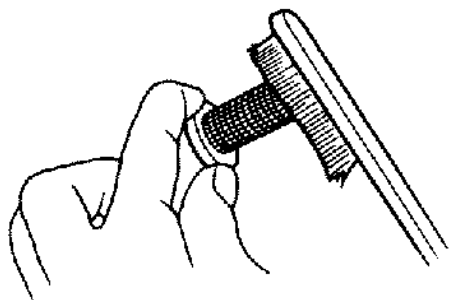
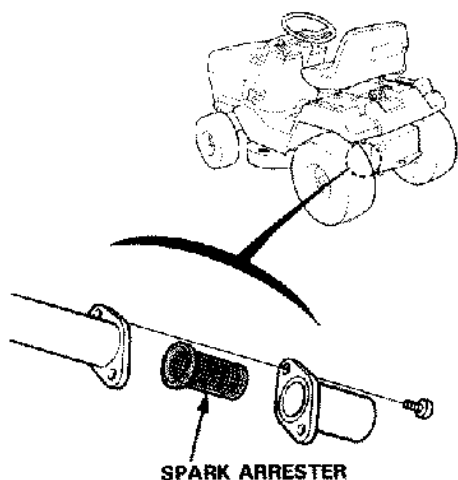


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### 13. Spark arrester maintenance (optional part)

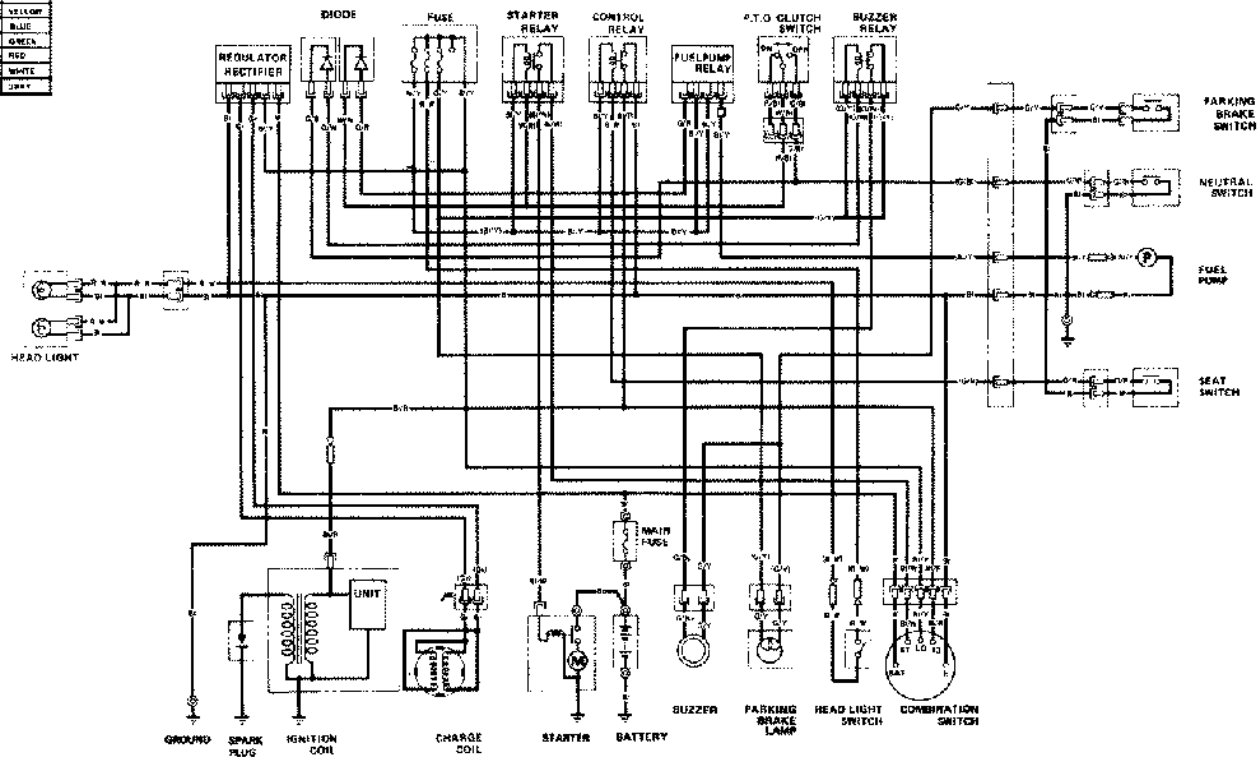
**CAUTION:** If the lawn tractor has been running, the muffler will be hot. Allow it to cool before proceeding.

1. Remove the two 5 mm screws from the exhaust pipe tip. Remove the exhaust pipe tip and spark arrester (be careful not to damage the spark arrester screen).
2. Use a wire brush to remove carbon deposits from the spark arrester screen.  
NOTE: Inspect the spark arrester screen for holes or tears. Replace if necessary.





B	BLACK
Y	YELLOW
A	BLUE
C	GREEN
R	RED
W	WHITE
Gr	GROUND



## 10. TROUBLE SHOOTING

---

### Engine fails to start;

1. No fuel. —————> Add fuel.
2. Shift lever in gear. —————> Position shift lever in NEUTRAL.
3. P.T.O. lever engaged. —————> Position blade (P.T.O.) lever in DISENGAGE.
4. Spark plug faulty or —————> Regap plug or replace (see p.37).  
improperly gapped.
5. Spark plug wire loose —————> Check spark plug wire.  
or disconnected.
6. Fuel not reaching —————> See your authorized HONDA dealer.  
carburetor.
7. Discharged battery or —————> Charge battery or retighten terminal.  
loose terminal. (see p.39).

### Engine loses power;

1. Dirty air cleaner elements. —————> Clean or replace elements (see  
p.36).
2. Spark plug faulty or —————> Regap plug or replace.  
improperly gapped.
3. Engine overloaded. —————> Shift to lower speed.

### Engine overheats;

1. Cooling air intake plugged. —————> Clean cooling air intake (see p.13).
2. Engine overloaded. —————> Shift to lower speed.
3. Low engine oil level. —————> Fill with recommended oil (see  
p.14).
4. Spark plug improperly. —————> Regap plug or replace.  
gapped

---

Erratic operation;

1. Dirty fuel. —————> See your HONDA dealer.
2. Dirty air cleaner elements. —————> Clean air cleaner elements.
3. Spark plug faulty or —————> Regap plug or replace.  
improperly gapped.

Excessive vibration;

1. Loose blade or engine —————> Retighten blade bolts or engine  
mounting hardware. mounting hardware.
2. Damaged blade or out of —————> Replace blade.  
balance.

Battery will not charge;

1. Dead cell in battery. —————> Replace battery
2. Loose electrical connec- —————> Check connections and lines.  
tions or broken wire.

Uneven mowing;

1. Tractor speed too fast. —————> Shift to lower speed.
2. Grass accumulation —————> Clean deck inside (see p.30).  
inside deck.
3. Dull blade. —————> Sharpen blade or replace.
4. Tires improperly inflated. —————> Check tire inflation (see p.19).
5. Mower not level. —————> Check cutter deck mounting.
6. Wrong cutter deck height. —————> Change to proper height.
7. Discharge fan damage. —————> See your authorized HONDA dealer.
8. Chute clogged (if equipped —————> Empty grass bag and chute.  
with optional grass bag).

---

**Plugged cutter deck discharge chute.**

1. Wrong blade. —————> Use genuine Honda blade or equivalent.
2. Deck too low. —————> Raise deck and adjust deck height properly.
3. Engine overloaded. —————> Operate at full throttle. Use lower speed range. Set cutter deck higher than desired height for first pass, then cut to desired height on second pass.
4. Grass bags full (Optional part). —————> Empty grass bags.

**Blades do not rotate or stop.**

1. Blade drive belt worn or broken. —————> Replace with new belt (see p.44).
2. P.T.O. lever cable cut or out of adjustment. —————> See your authorized HONDA dealer.
3. Faulty P.T.O. clutch assy or worn disk. —————> See your authorized HONDA dealer.

**Tractor does not run, or starts incorrect time.**

1. Faulty clutch assy. —————> See authorized HONDA dealer.
2. Transmission does not shift gear. —————> See authorized HONDA dealer.
3. Abnormal clutch engagement. —————> See authorized HONDA dealer.

## 11. SPECIFICATIONS

MODEL	HT3810
<b>ENGINE</b>	
Model	G400
Type	Side valve, sigle-cylinder, 4-stroke gasoline engine
Displacement	406 cm <sup>3</sup> (24.9 cu in)
Bore and stroke	86 x 70 mm (3.4 x 2.8 in)
Ignition timing	20° BTDC
Ignition system	Transistorized magneto
Cooling system	Forced air cooled
Engine oil capacity	1.2ℓ (1.27 US qt)
Spark plug	B4H-BR4HS (NGK), W14F-U.W14FR-U (ND)
<b>FRAME</b>	
Dimensions	
Length x Width x Height	1747 x 1252 x 1002 mm (68.8 x 49.3 x 39.5 in)
Wheel tread	
Front	729 mm (28.7 in)
Rear	677 mm (26.7 in)
Wheel base	
Cutting width	1160 mm (45.7 in)
Cutting height	965 mm (38.0 in)
Dry weight	1-1/2, 2, 2-1/2, 3, 3-1/2, 4 in 242 kg (533.5 lb)
Tire size	Front 15 x 6.00-6, Rear 18 x 8.50-8
Aire pressure	Front 1.0kg/cm <sup>2</sup> , Rear 0.7 kg/cm <sup>2</sup>
Travel speed (3300 rpm)	
Gear selections	
5 Forward 1 Reverse	
First	1.8 km/h (1.1 mile/h)
Second	2.3 km/h (1.4 mile/h)
Third	3.3 km/h (2.1 mile/h)
Fourth	5.1 km/h (3.2 mile/h)
Fifth	8.6 km/h (5.3 mile/h)
Reverse	2.9 km/h (1.8 mile/h)
Fuel tank capacity	8.3ℓ (2.2 US gal)
Battery	Normal 12V40A. O.P 12V60A

NOTE: Specifications are subject to change without notice.

## 12. WARRANTY SERVICE

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### Owner Satisfaction

Your satisfaction and goodwill are important to your dealer and to us. Normally, any problems with the product will be handled by your dealer's service department. Sometimes, however, despite the best intentions of all concerned, misunderstandings can occur. If your problem has not been handled to your satisfaction, we suggest you take the following action.

- Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.
- If your problem still has not been resolved to your satisfaction, contact the Customer Relations Department at the regional office of American Honda Motor Co., Inc. in your area. Regional office locations are shown on the following page. We will need the following information in order to assist you:
  - Your name, address, and telephone number
  - Product model and serial number
  - Date of purchase
  - Dealer name and address
  - Nature of the problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipments, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both the dealer and American Honda Motor Co., Inc. We want to assist you in every way possible to assure your complete satisfaction with your purchase.

## **Current customer service contact information:**

### **United States, Puerto Rico, and U.S. Virgin Islands:**

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write:

American Honda Motor Co., Inc.  
Power Equipment Division  
Customer Relations Office  
4900 Marconi Drive  
Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 M-F, 8:30 am - 7:00 pm EST

When you write or call, please provide the following information:

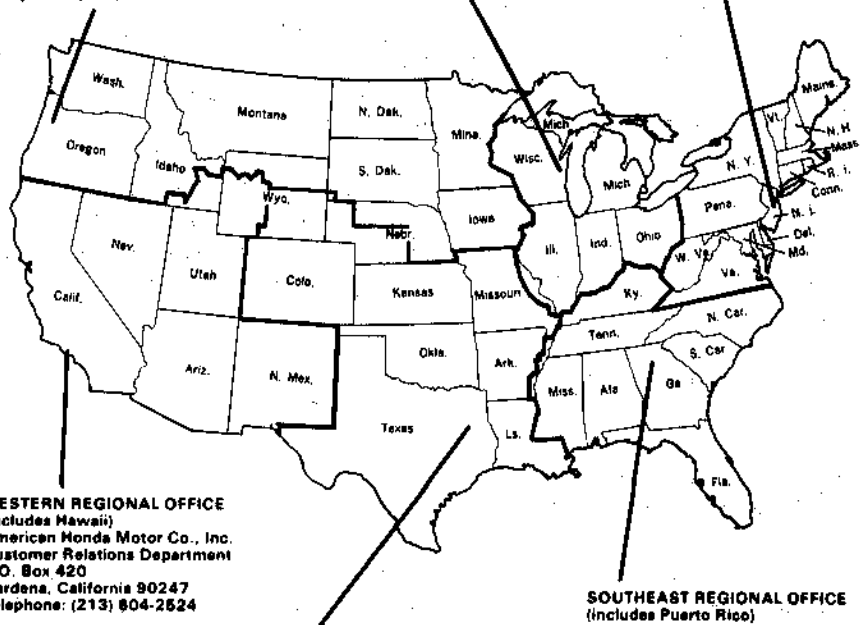
- Model and serial numbers
- Name of the dealer who sold the Honda power equipment to you
- Name and address of the dealer who services your equipment
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

## Regional Office Locations

**NORTHWEST REGIONAL OFFICE**  
 (includes Alaska)  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 P.O. Box 30286  
 Portland, Oregon 97220  
 Telephone: (503) 265-1188

**MIDWEST REGIONAL OFFICE**  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 P.O. Box 22  
 Greendale, Wisconsin 53129  
 Telephone: (414) 421-9300

**NORTHEAST REGIONAL OFFICE**  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 P.O. Box 749  
 Moorestown, New Jersey 08057  
 Telephone: (609) 778-1100



**WESTERN REGIONAL OFFICE**  
 (includes Hawaii)  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 P.O. Box 420  
 Gardena, California 90247  
 Telephone: (213) 804-2624

**SOUTHWEST REGIONAL OFFICE**  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 P.O. Box 5406  
 Irving, Texas 75062  
 Telephone: (214) 258-6883

**SOUTHEAST REGIONAL OFFICE**  
 (includes Puerto Rico)  
 American Honda Motor Co., Inc.  
 Customer Relations Department  
 6684 Jimmy Carter Boulevard  
 Norcross, Georgia 30071  
 Telephone: (404) 448-1992





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