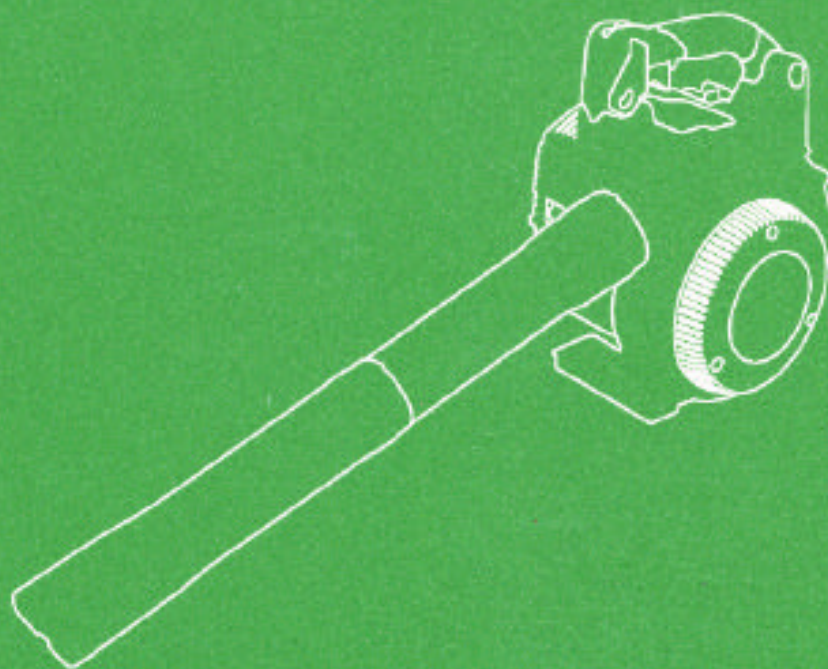


HANDY BLOWER HHB25



OWNER'S MANUAL

Honda HHB25

OWNER'S MANUAL



ECOLOGY CONSCIOUS TECHNOLOGY

The “e-SPEC” mark symbolizes environmentally responsible technologies applied to Honda power equipment, which contains our wish to “preserve nature for generations to come.”

INTRODUCTION

Thank you for purchasing a Honda handy blower.

This manual covers the operation and maintenance of the Honda Handy Blower HHB25.

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

No part of this publication may be reproduced without written permission.

This manual should be considered a permanent part of the handy blower and should remain with it if it is resold.

Pay special attention to statements preceded by the following words;

⚠ WARNING Indicates a strong possibility of severe personal injury or death 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 handy blower, consult an authorized Honda dealer.

Honda handy blower is designed to give safe and dependable service if operated according to instructions.

⚠ WARNING Operating a handy blower requires special effort to ensure the safety of the operator and the safety of others. Read and understand this Owner's Manual before operating the handy blower; failure to do so could result in personal injury or equipment damage.

- The illustrations may vary according to the type.

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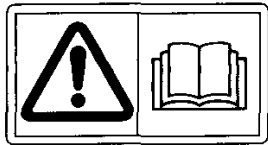
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1. SAFETY INSTRUCTIONS

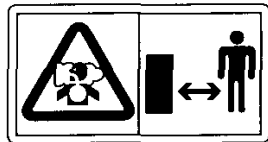
⚠ WARNING

To ensure safe operation

For your safety and safety of others, pay special attention to these precautions:



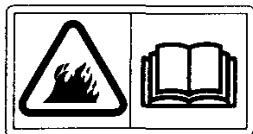
- **Honda handy blower is designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the handy blower. Failure to do so could result in personal injury or equipment damage.**



- **Exhaust gas contains poisonous carbon monoxide. Never run the handy blower in an enclosed area. Be sure to provide adequate ventilation. When installed in ventilated protection are to be observed.**



- **Wear eye protection, helmet and other protective devices and protective clothings to protect your eyes and body from all objects (gravel, glass, wire, etc.) thrown by the handy blower.**



- **Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Read and understand the Owner's Manual before operating the handy blower.**

⚠ WARNING**To ensure safe operation****Operator Responsibility**

- Any part from the machine is a potential source of danger if the machine is used in abnormal conditions or if the maintenance is not done correctly.
- Read the Owner's Manual careful. Be familiar with the controls and their proper use of the handy blower. Know how to stop the engine rapidly.
- Never allow children or people unfamiliar with this Owner's Manual to use the handy blower. Local regulations may restrict the age of the operator.
- If you lend or resell your handy blower to a third person, instruct him or her with how to handle the product and alert him or her to read and understand the Owner's Manual carefully before operation.
- Never operate the handy blower while:
 - people, especially children or pets are nearby.
 - user is fatigued or under medication, or has swallowed substances known to affect judgment or reactions.
- Keep people and pets away from the operator during operation.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

⚠ WARNING

To ensure safe operation

Operator Responsibility

- While operating the handy blower, always wear following protective clothing and protective devices.
 - Protective clothing

Wear adequate clothes with long sleeves and long pants.
The clothes must fit your body and button up or zip up the clothes securely. Do not leave the sleeves and bottom of the shirt/jacket loose. Wear the arm covers, too.
Do not wear the clothes with the tapes, laces and/or ribbons, loose clothes, necktie, necklace, etc. during operation. They can be caught in the handy blower causing injury. Bind your hair if it is long, and do not let your hair below your shoulder.
 - Protective devices
 - * Goggles

Wear the goggles or other eye protection to protect your eyes from the debris that is thrown by the handy blower.
 - * Helmet

Wear the helmet to protect your head from the overhead branches and the falling foreign material.
 - * Face shield

Wear face shield to protect your face from debris thrown by the handy blower.
 - * Ear muffs/ear plugs

Wear the ear muffs, ear plugs or other hearing protection to protect your ears from the noise.
 - * Gloves

Wear the gloves to protect your hands.

⚠ WARNING

To ensure safe operation

Operator Responsibility

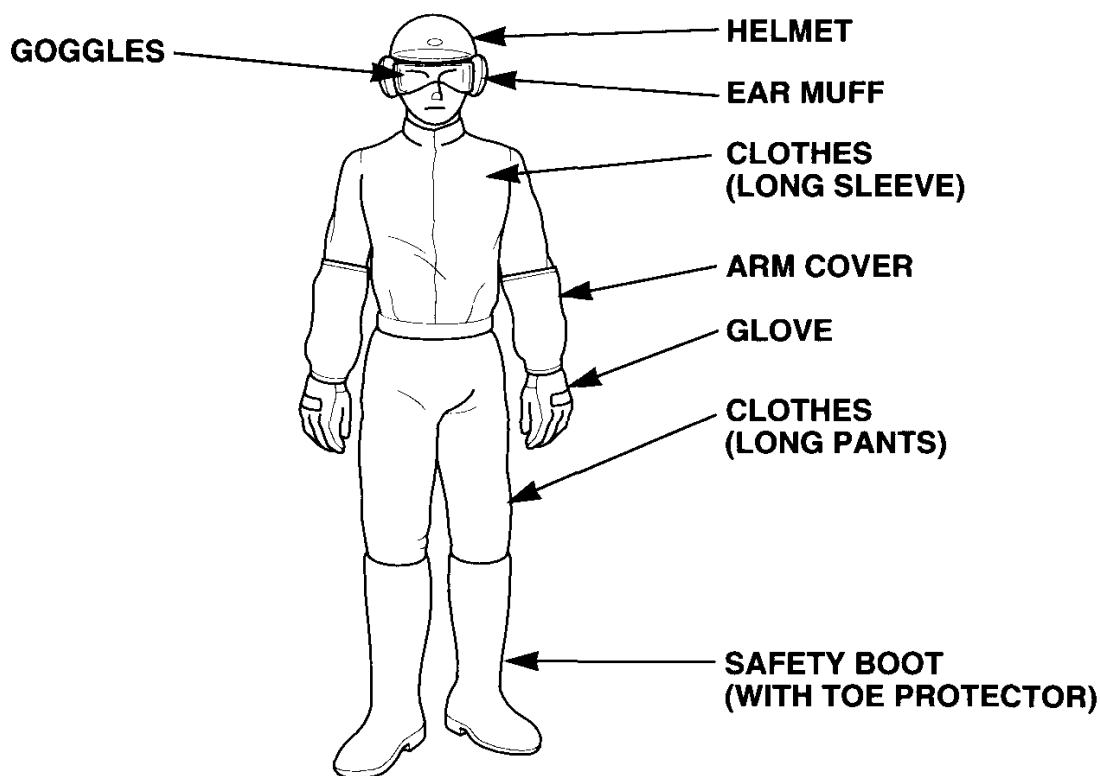
*** Safety boots**

Wear the safety boots with the non-slip sole and toe protector to protect your feet from the flying debris.

Do not operate the equipment when barefoot or wearing open sandals.

*** Dust mask**

We recommend that you wear the dust mask if you suffer from the allergic rhinitis, e.g. pollinosis, etc. The dust mask is available at a pharmacy and it is helpful for reducing the amount of pollens you breathe.



- Before each use, visually inspect the handy blower for any damage and looseness of fastening part.
- Avoid operating the handy blower at night or in a bad weather of poor visibility, because there is much possibility of accident.
- Walk, never run during operation.
- Avoid operating the handy blower on a steep slope. The steep slope is very slippery, so you can slip down.

⚠ WARNING**To ensure safe operation****Operator Responsibility**

- Do not operate the handy blower with the labels, and other parts removed.
- Do not mount an incorrect part and do not tamper with the handy blower as it can result in personal injury and/or equipment damage. Use the handy blower that is designed for your model and application.
- Stop the engine and disconnect the spark plug cap in the following cases:
 - Before any operation around the handy blower.
 - Before checking, cleaning or working on the handy blower.
 - After striking a foreign object. Inspect the handy blower for damage and make repairs before restarting and operating the handy blower again.
 - If the handy blower starts to vibrate abnormally. Check immediately the cause of the vibration and perform the necessary repair.
- Stop the engine in the following cases:
 - Whenever you leave the handy blower unattended.
 - Before refueling.
 - When any person or pet is approaching.
 - Shut off the engine immediately when the handy blower shows abnormal vibration suddenly. Sudden vibration can suggest the damaged rotating parts or loose fasteners. Examine the cause of the problem, and do not start the engine before repair is made.
- The handy blower is faulty when the engine is idling by returning the throttle but the handy blower keeps turning, and idle speed adjustment must be made. Consult your authorized Honda dealer.
- Keep all nuts, bolts and screws tight to be sure the handy blower is in safe working condition. Regular maintenance is an essential aid to user's safety and retaining a high level of performance.
- Do not use the handy blower with worn or damaged parts. Parts must be replaced, or repaired. Replace worn or damaged parts with Honda genuine parts. Non equivalent quality parts may damage the machine and be prejudicial to your safety.

⚠ WARNING**To ensure safe operation****Operator Responsibility**

- Injury caused by vibration and cold:
You may feel the prickling or burning pain in your fingers, and the fingers may lose color and feeling depending on your constitution. It is believed that these symptoms are brought by vibration and/or exposure to cold. The specific trigger point of these symptoms are not identified yet, but observe the following instructions.
 - * Limit the amount of time you spend operating the handy blower in a day.
A day's work should consist of the work with the handy blower and the other work without the hand-held equipment so you can limit the amount of time when your hands are exposed to the machine vibration.
 - * Keep your body warm, especially your hands, wrists and arms.
 - * Take your breaks at shorter intervals and arm exercises well to maintain good blood circulation. Do not smoke while working.
 - * When you feel discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your doctor promptly.
- Injury caused by repeated operation:
Performing the repeated operation for a prolonged time may cause injury. Observe the following instructions to reduce the causes of the injury.
 - * Avoid the repeated operation by using your wrist(s) in bent, stretched or twisted position.
 - * Take your breaks regularly to minimize the effect of the repeated operation. Take your time when performing the repeated operation. Do not rush to operate the handy blower.
 - * When your fingers, hands, wrists and/or arms are throbbing or numbed, consult your doctor.

Child Safety

- Keep children indoors and supervised at all times any outdoor handy blower is being used nearby. Young children move quickly and are attracted especially to the handy blower activity.
- Never assume children will remain where you last saw them. Be alert and turn the handy blower off if children enter the area.
- Children should never be allowed to operate the handy blower, even under adult supervision.

⚠ WARNING**To ensure safe operation****Fire and Burn Hazard**

Gasoline is extremely flammable, and gasoline vapor can explode. Use extreme care when handling gasoline. Keep gasoline out of reach of children.

- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only, and do not smoke while refueling or handling fuel.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add gasoline or fuel while the engine is running or when the engine is hot.
- If gasoline is spilled, do not attempt to start the engine but move the handy blower away from the area of spillage and avoid creating any source of ignition until gasoline vapours have dissipated.
- Tighten all fuel tanks and container caps securely.
- When you start the engine after refueling, be sure to start the engine at least 3 m (10 ft.) away from the refueling spot.
- Never store the handy blower with gasoline in the tank inside a building where fumes may reach an open flame, spark or high temperature source.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the handy blower, especially the engine, muffler, the gasoline storage area as well, free of grass, leaves, or excessive grease.
Do not leave containers of vegetable matters in or near a building.
- If the fuel tank has be to drained, this should be done outdoors, with a cold engine.

Carbon Monoxide Poisoning Hazard

Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

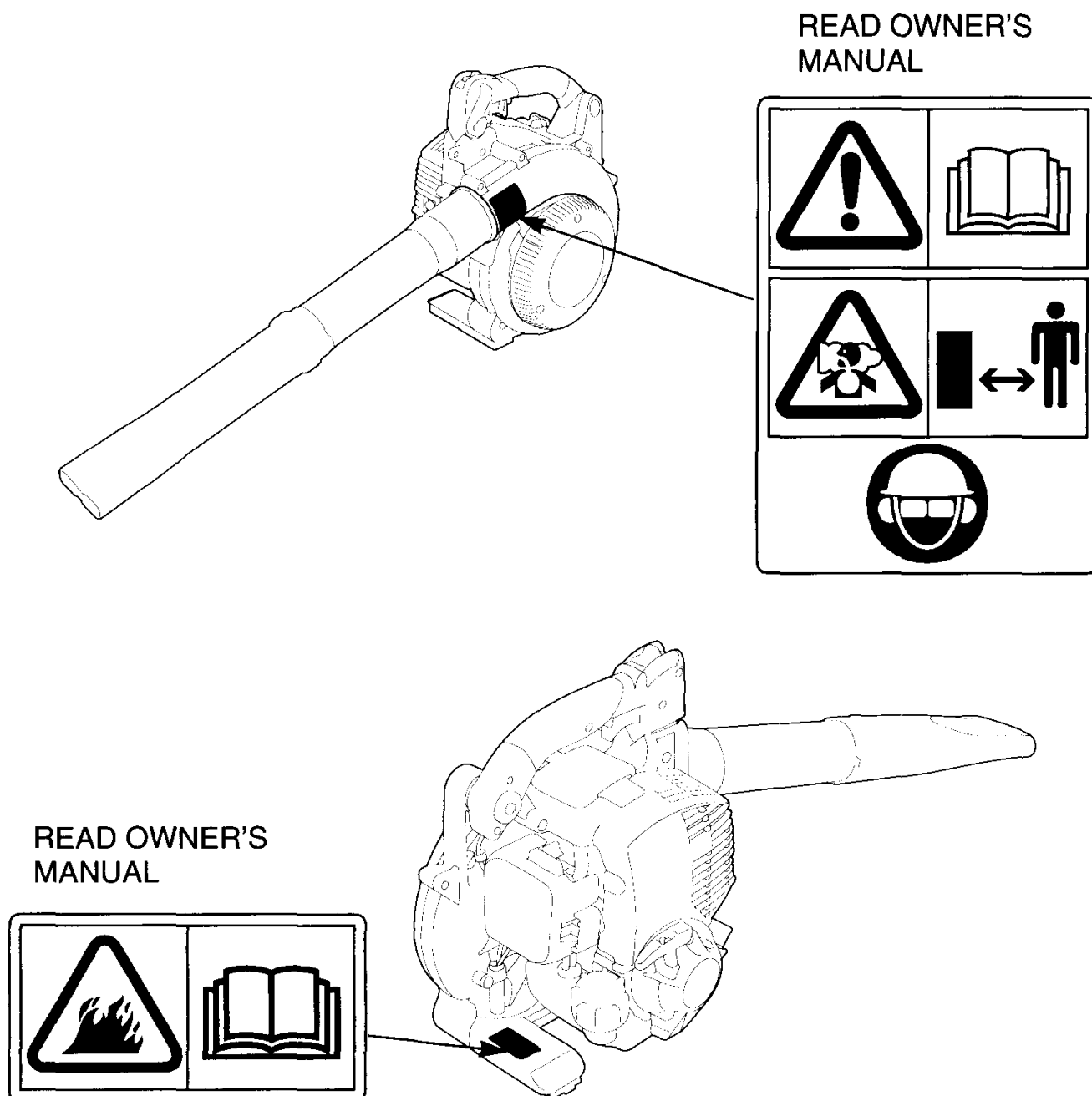
- If you run the engine in an area that is confined or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas.
To keep exhaust gas from building up, provide adequate ventilation.
- Replace faulty muffler.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

2. SAFETY LABEL LOCATIONS

Safety Label Locations

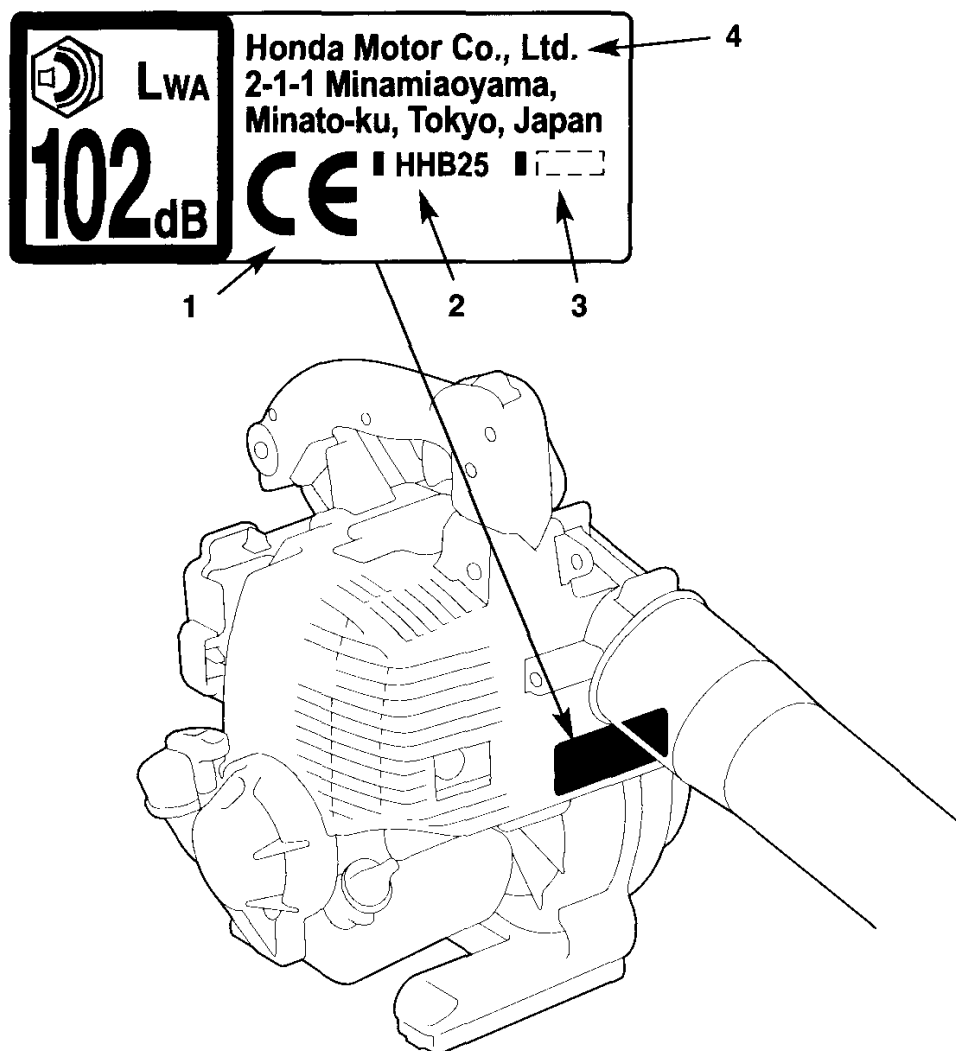
Your handy blower must be used with care. Therefore, decals have been placed on the machine, to remind you pictorially of main precautions to take during use. Their meanings are explained on page 4.

These decals are considered as a part of the handy blower. Should one become detached or unreadable, contact your Honda dealer for its replacement.



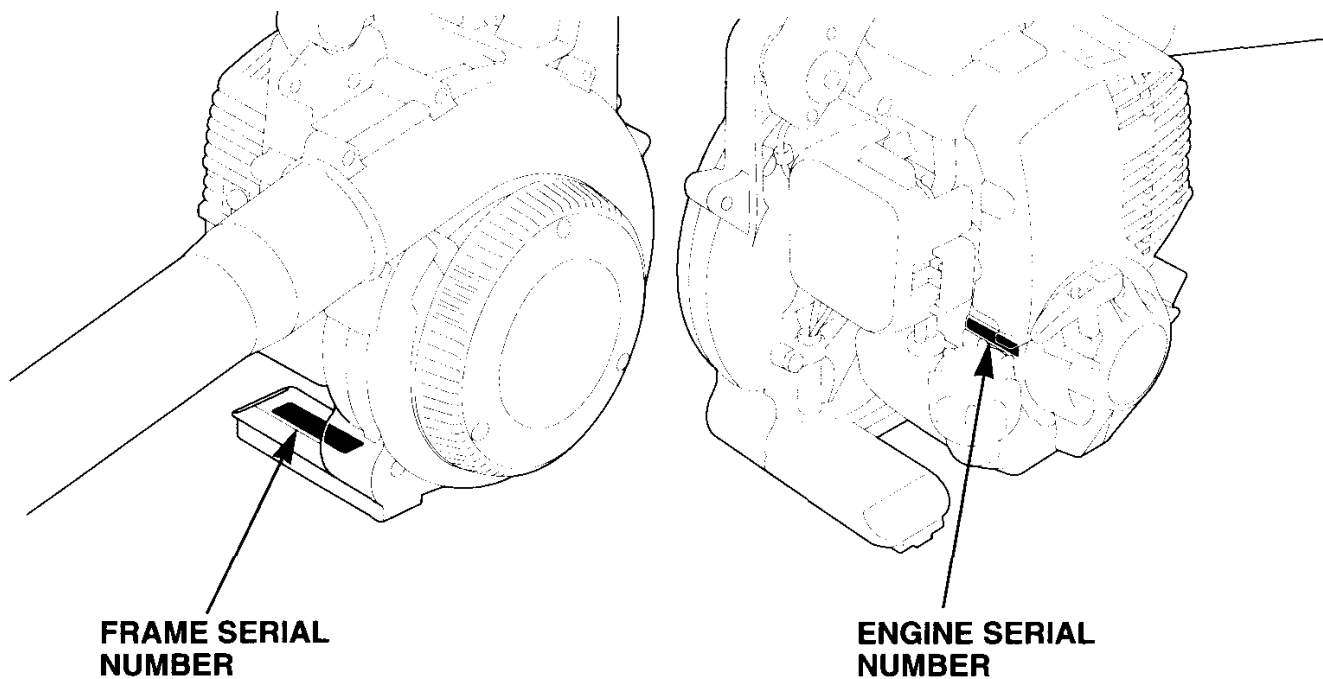
CE Mark and Noise Label Locations

NOISE LABEL and CE MARK



1. Conformity mark, according to the 2000/14/EC, 98/37/EC modified Directive and 89/336/EEC
2. Model
3. Year of manufacture
4. Name and address of the manufacturer

Serial Number Location

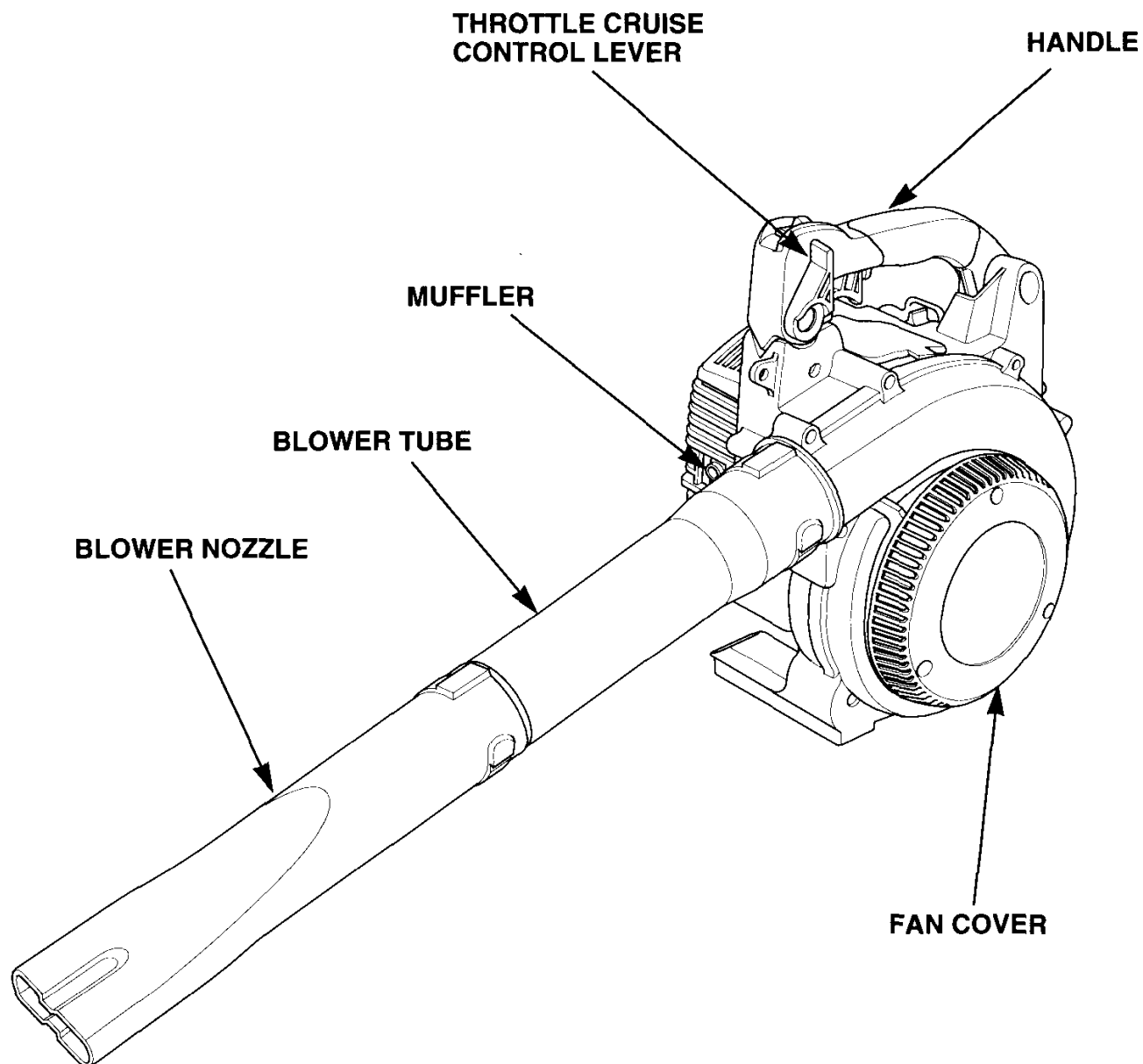


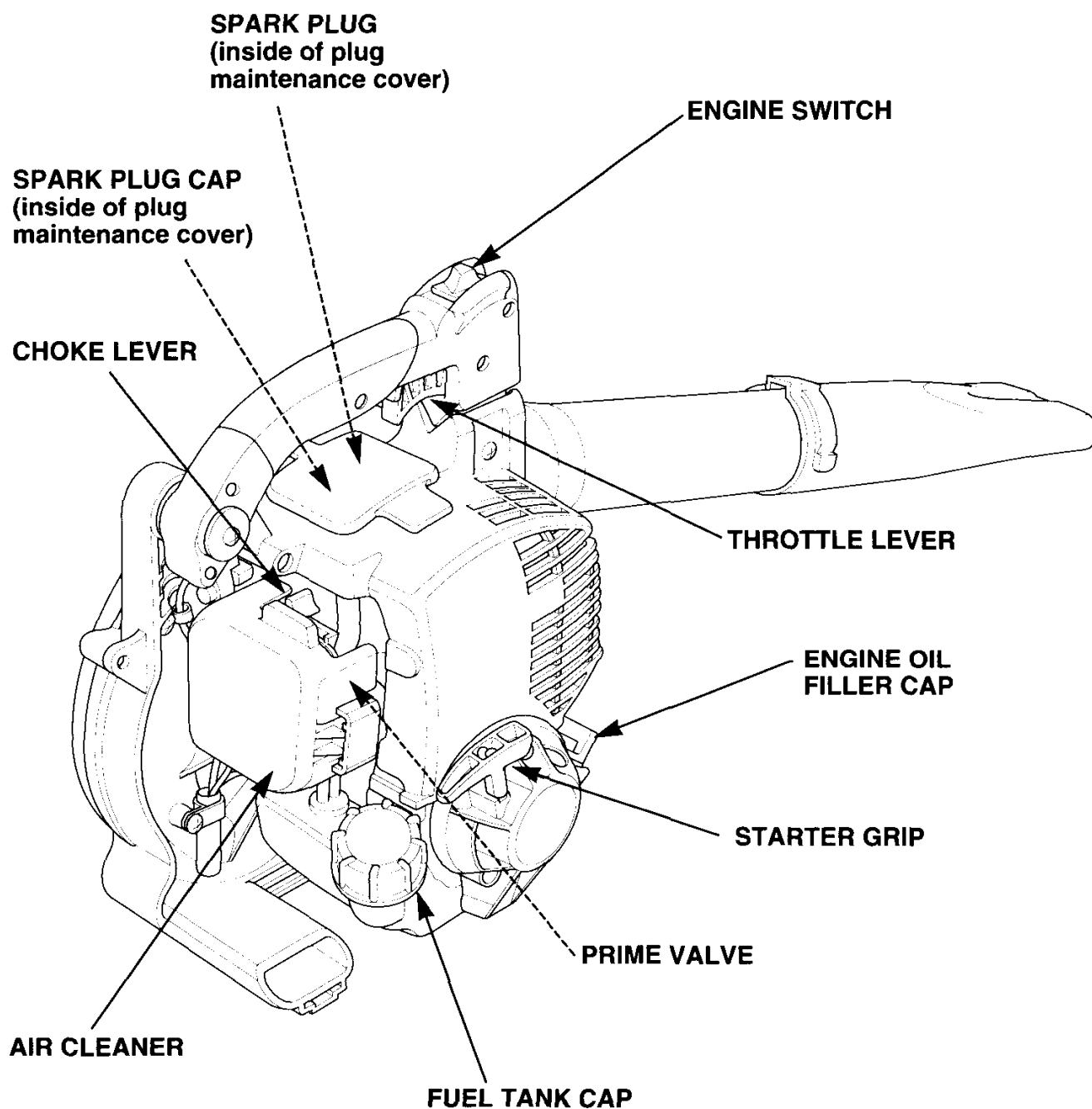
Record the frame serial number and engine serial number in the space below. You will need these numbers when ordering parts.

Frame serial number: _____

Engine serial number: _____

3. COMPONENT IDENTIFICATIONS





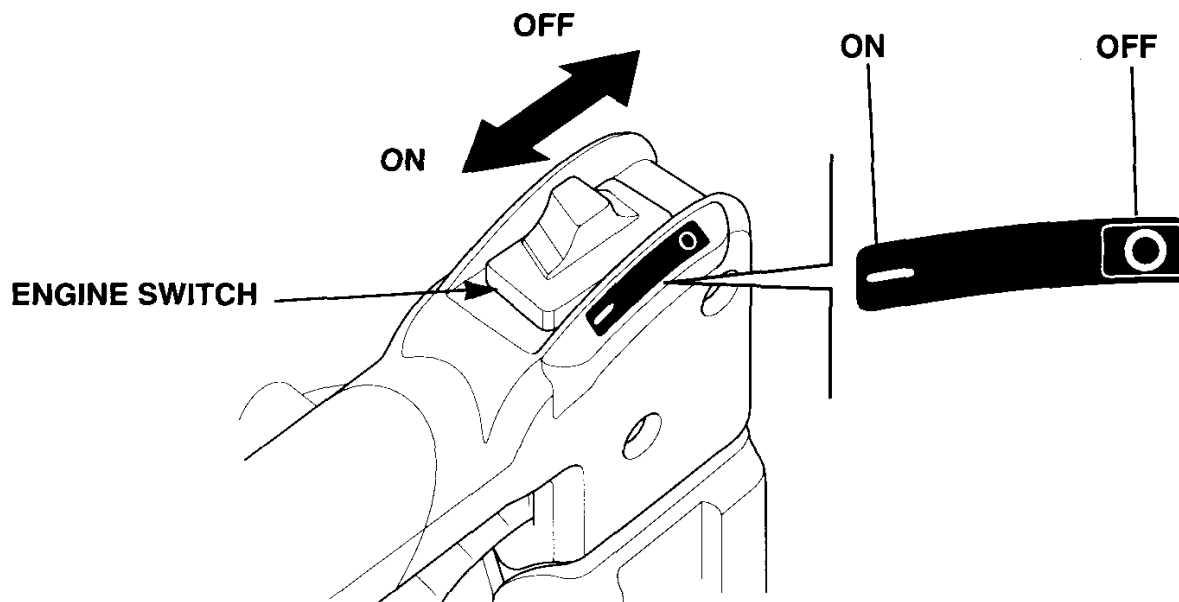
4. CONTROLS

Engine switch

The engine switch enables and disables the ignition system.

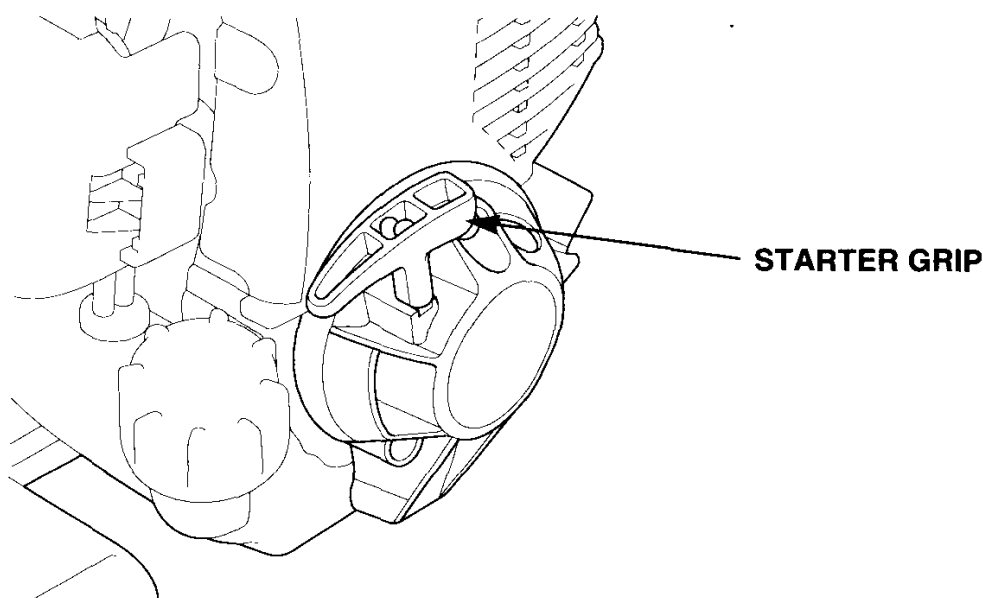
The engine switch must be in the ON position for the engine to run and to start the blower.

Turning the engine switch to the OFF position stops the blower and engine.



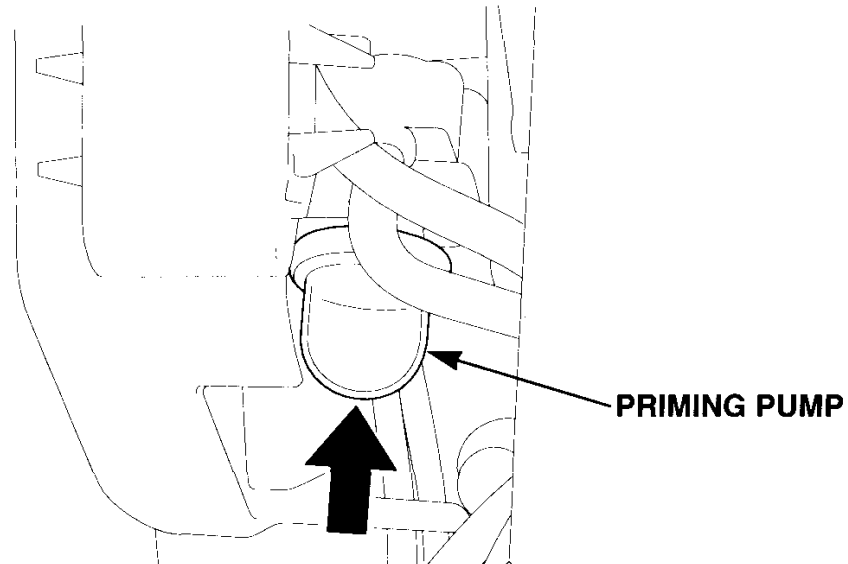
Starter grip

Pulling the starter grip operates the recoil starter to crank the engine.



Priming pump

Pressing the priming pump feeds the fuel from the fuel tank to the carburetor. This procedure is necessary for starting the engine.

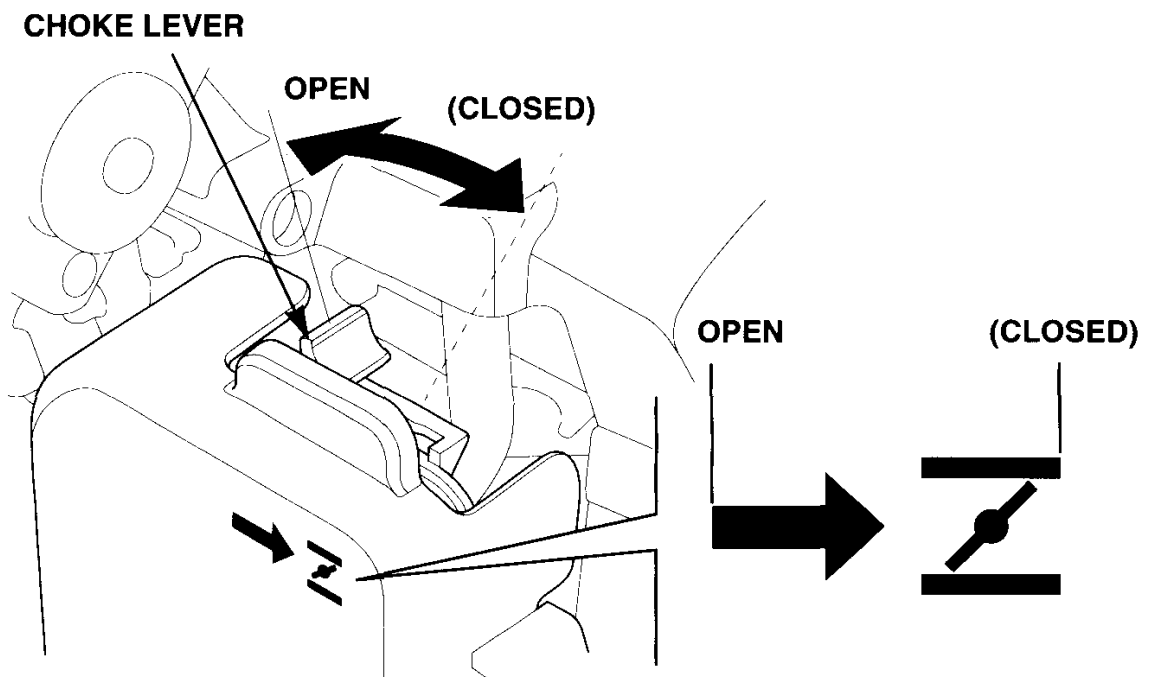


Choke lever

The choke lever opens and closes the choke valve in the carburetor.

The CLOSED position enriches the fuel mixture for starting a cold engine.

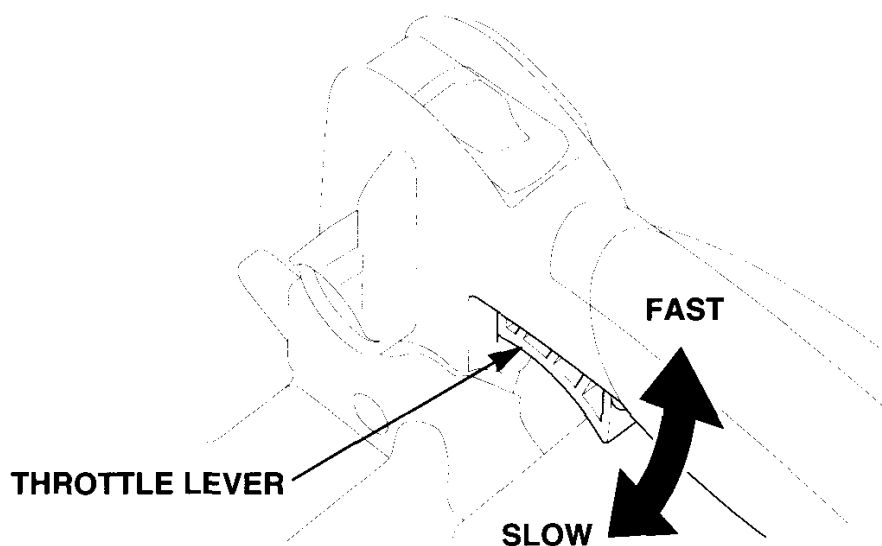
The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.



Throttle lever

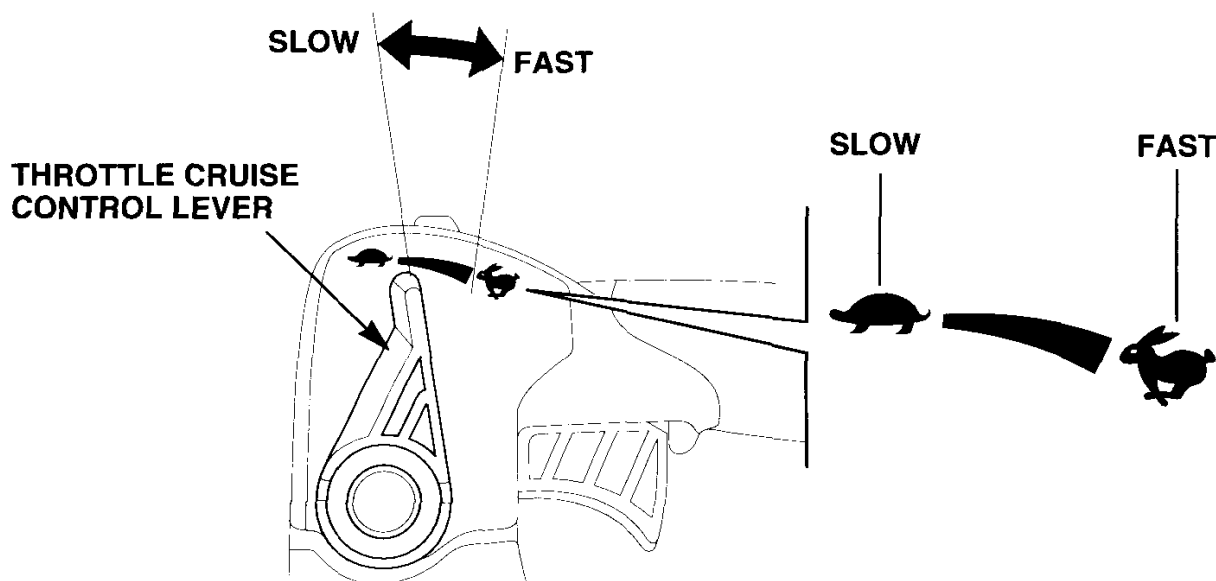
The throttle lever controls the engine speed.

Operate the throttle lever to run the blower.



Throttle cruise control lever

The throttle cruise control lever holds the engine speed at high speed by squeezing the throttle lever when the engine is running and moving the throttle cruise control lever at the FAST position. Move the throttle cruise control lever to the SLOW position to hold the engine speed at low speed.



5. PRE-OPERATION CHECKS

For safe and efficient blowing, always make a pre-operation inspection before operating.

⚠ WARNING

Perform a pre-operation inspection on firm, level surface with the engine stopped and spark plug cap removed from the spark plug.

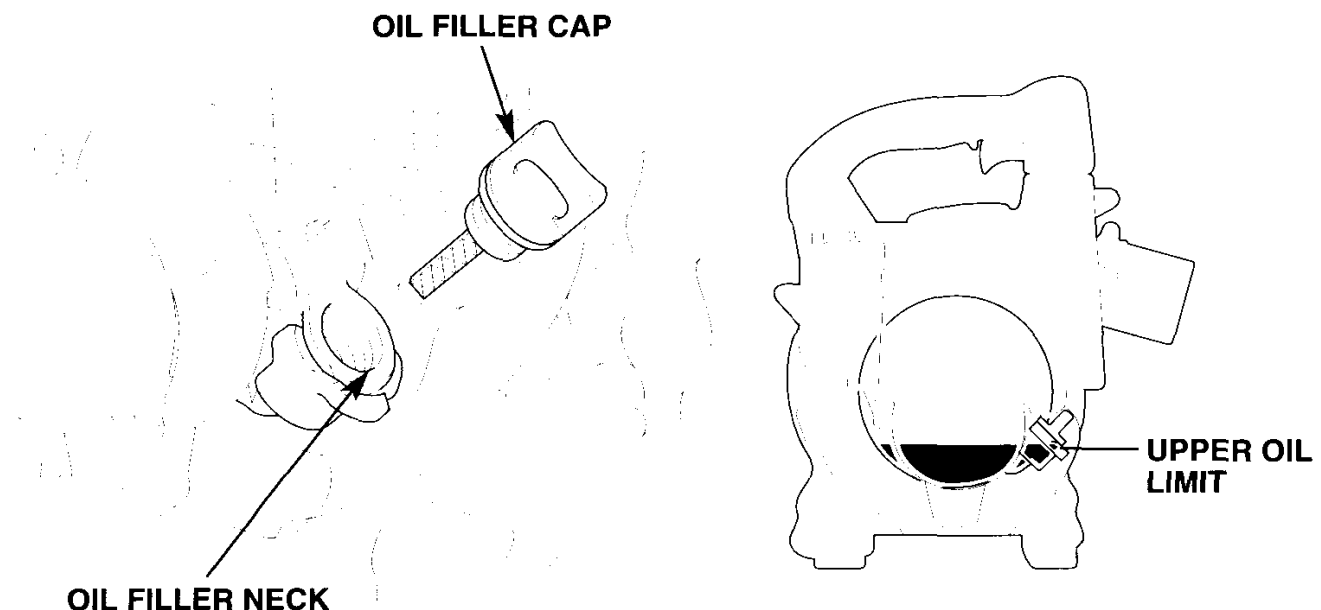
Check the engine oil level

CAUTION: Running the engine with insufficient oil can cause serious engine damage.

1. Place the handy blower on a level surface and remove the oil filler cap.
2. Check the oil level: It should reach to the edge of the oil filler neck, and check the engine oil for contamination and deterioration.
3. If the oil level is low, fill to the edge of the oil filler neck with the recommended oil.
If the oil is contaminated or deteriorated, replace it (see page 38).
4. Install the oil filler cap.

Every 10 hours, check the oil level and replenish oil up to the top of the oil filler neck if the engine is operated for more than 10 hours continuously.

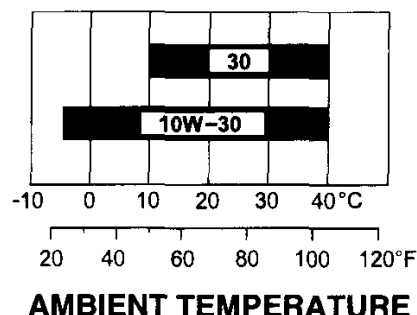
ENGINE OIL CAPACITY: 0.08 ℓ (0.08 US qt, 0.07 Imp qt)



Recommended oil:

Use 4-stroke motor that meets or exceeds the requirements for API service classification SE or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SE or later (or equivalent).

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



CAUTION: Using non-detergent oil or 2-stroke engine oil could shorten the engine's service life.

Check the fuel level

Use automotive unleaded gasoline with a Research Octane Number of 91 or higher (a Pump Octane Number of 86 or higher).

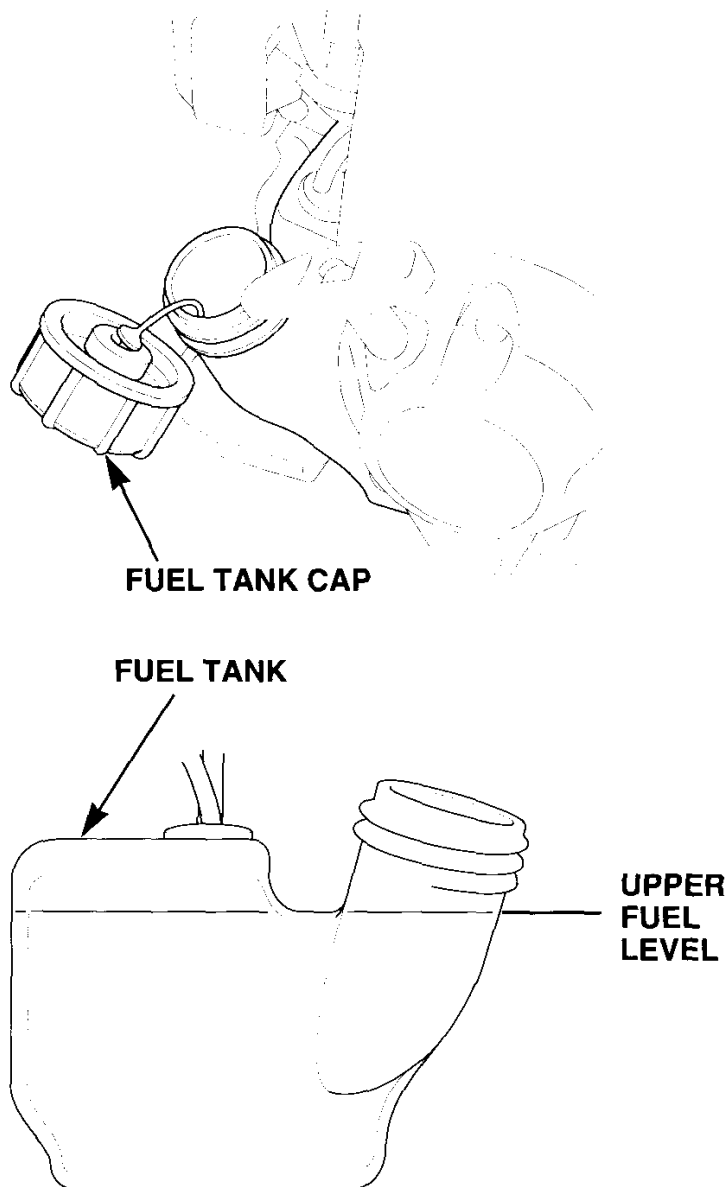
Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

⚠ WARNING

- Gasoline is extremely flammable and is 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 engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor. **KEEP OUT OF REACH OF CHILDREN.**

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

1. Check the fuel level visually from the outside of the fuel tank while keeping the fuel filler neck upright.
2. If the fuel level is low, refuel the fuel tank up to the level as specified. Remove the fuel tank cap gradually to release a pressured air in the fuel tank. Fuel in the fuel tank may spout out, if the fuel tank cap is removed quickly.



NOTE:

Gasoline spoils very quickly depending on factors such as light exposure, temperature and time.

In worst cases, gasoline can be contaminated within 30 days.

Using contaminated gasoline can seriously damage the engine (carburetor clogged, valve stuck).

Such damage due to spoiled fuel is disallowed from coverage by the warranty.

To avoid this please strictly follow these recommendations:

- Only use specified gasoline (see page 21).
- Use fresh and clean gasoline.
- To slow deterioration, keep gasoline in a certified fuel container.
- If long storage (more than 30 days) is foreseen, drain fuel tank and carburetor (see pages 50).

Gasoline containing alcohol

If you decide to use a gasoline containing alcohol (gasohol), be sure it's octane rating is at least as high as that recommended by Honda. There are two types of "gasohol": one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

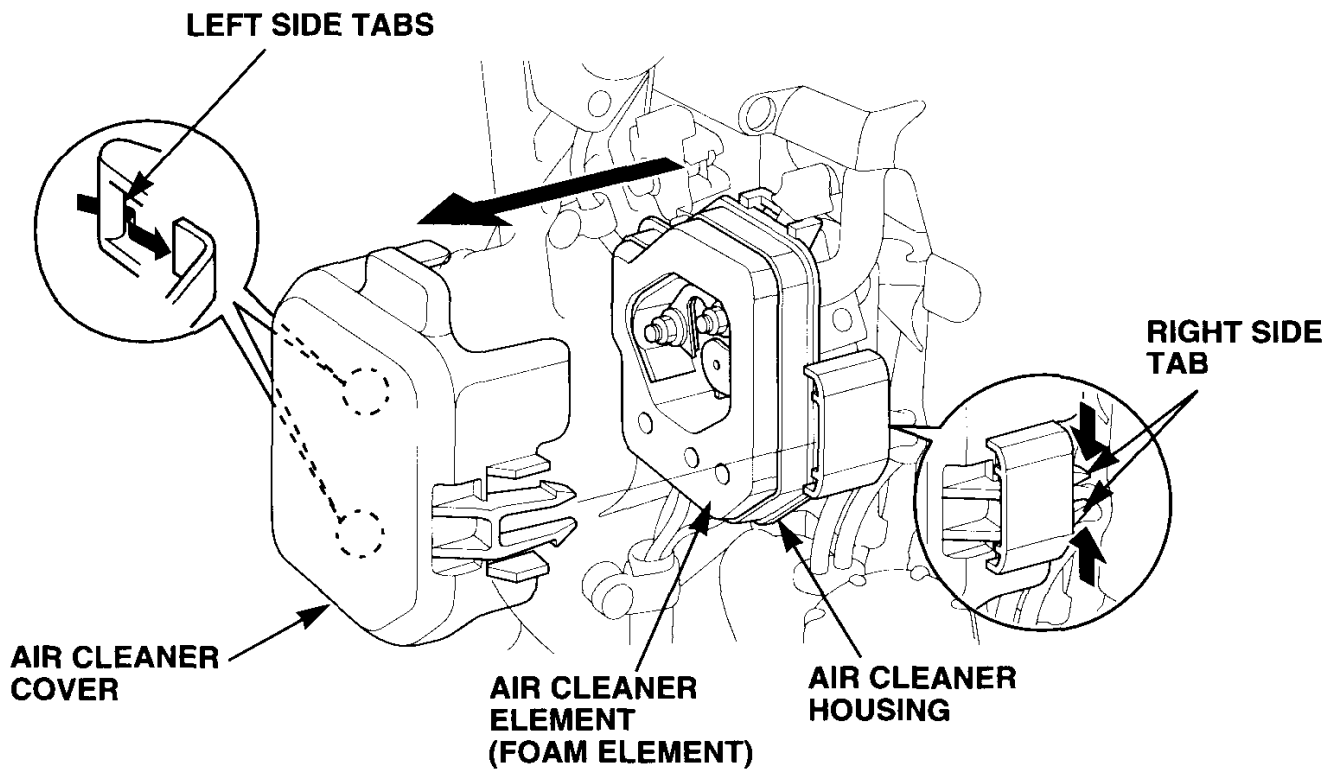
NOTE:

- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol, if it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

Check the air cleaner elements

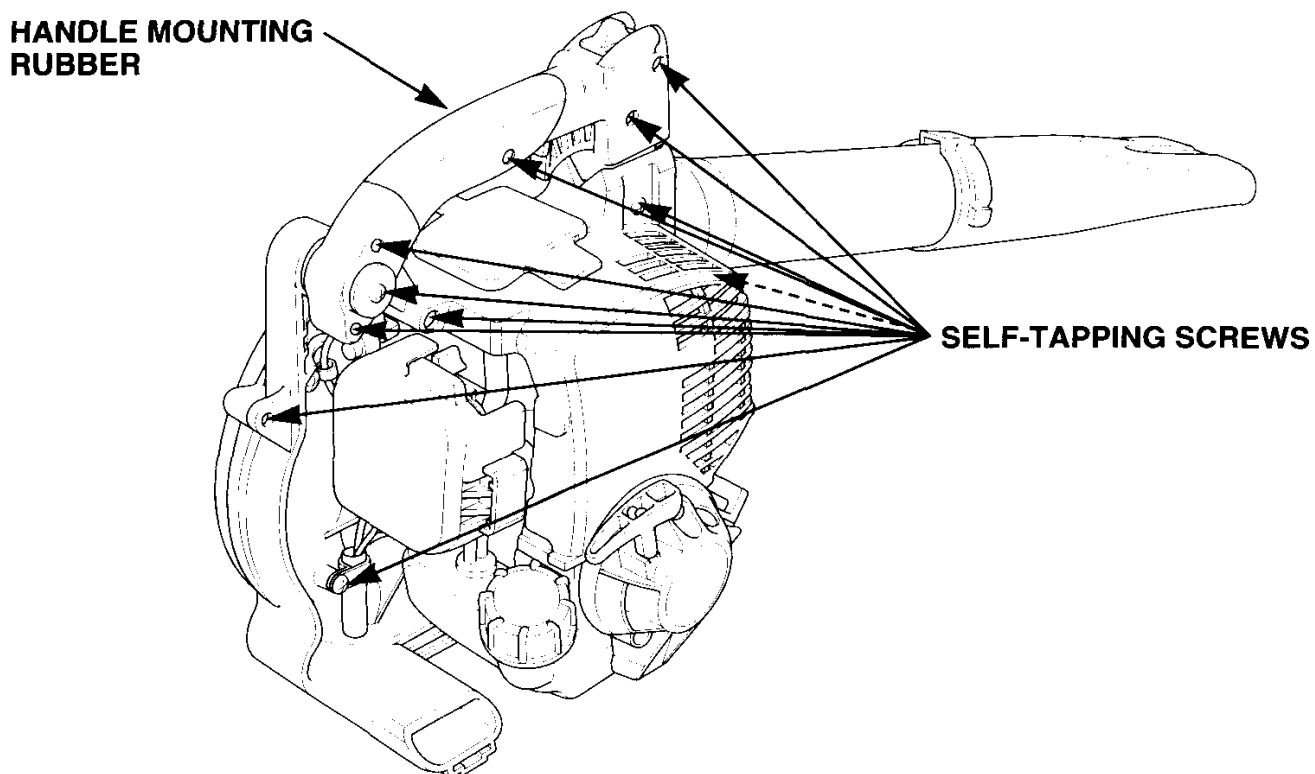
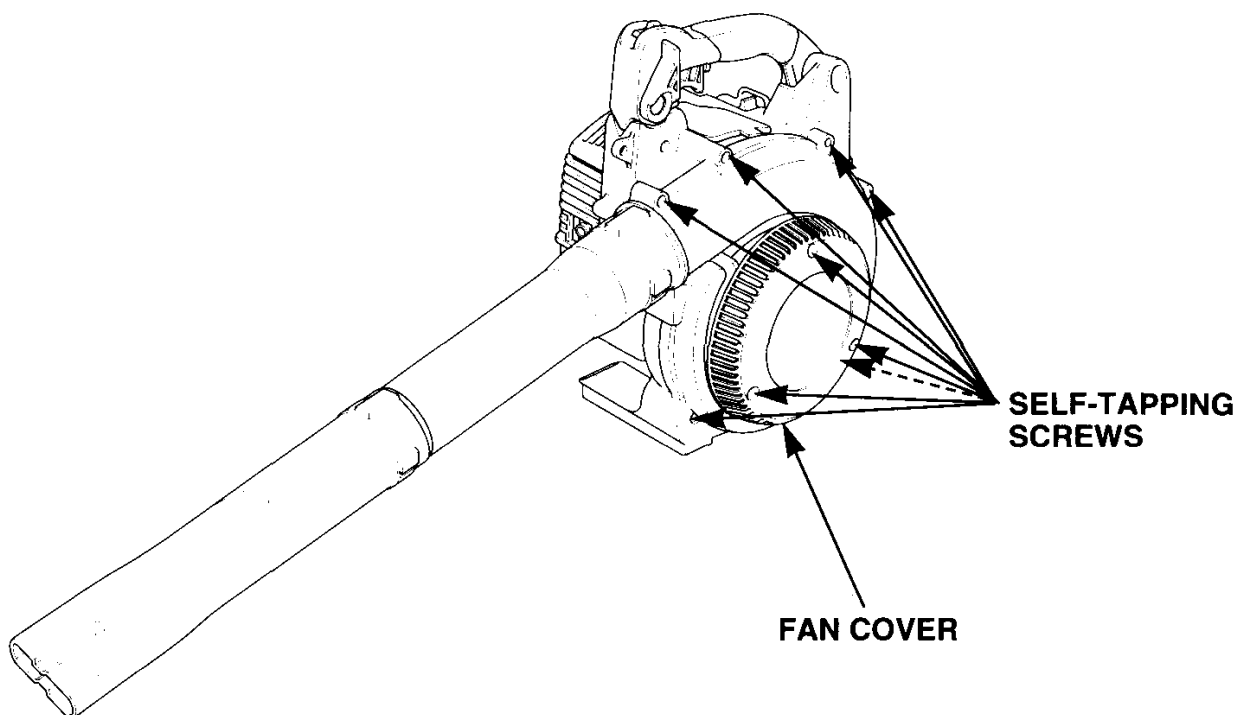
CAUTION: Never run the engine without air cleaner; rapid engine wear will result.

1. Move the choke lever to the full closed position.
2. Open the air cleaner cover by pushing the right side tabs of the air cleaner cover. Using the left side tabs as the pivoting points, turn the air cleaner cover and remove it from the air cleaner housing.
3. Remove the air cleaner element (foam element) from the air cleaner housing. Check the element for dirt.
4. If it is dirty, clean or replace the element (foam element). (Cleaning: see page 41)
5. Reinstall the removed parts in the reverse order of removal.



Check the self-tapping screws

1. Check the self-tapping screws for looseness. Tighten them securely if necessary.
2. Check the handle for looseness and tighten it securely if necessary. Check the handle mounting rubber for damage and replace if necessary. Consult your authorized Honda dealer for replacement.

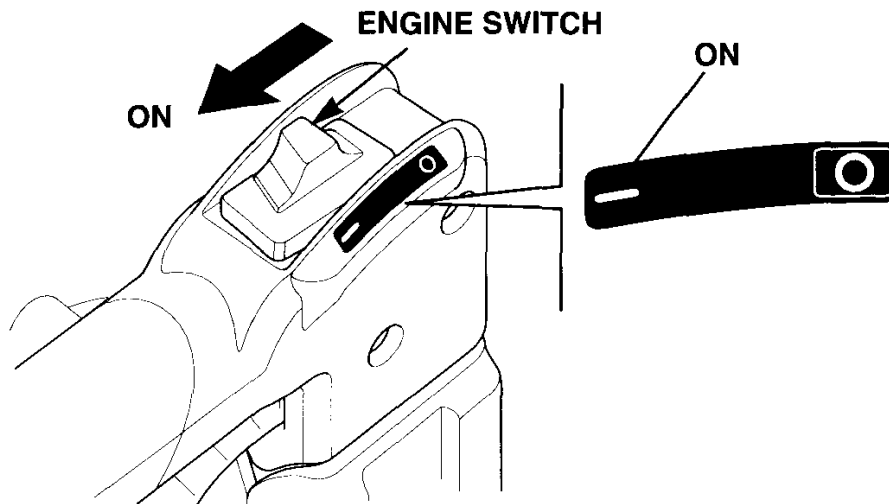


6. STARTING THE ENGINE

⚠ WARNING

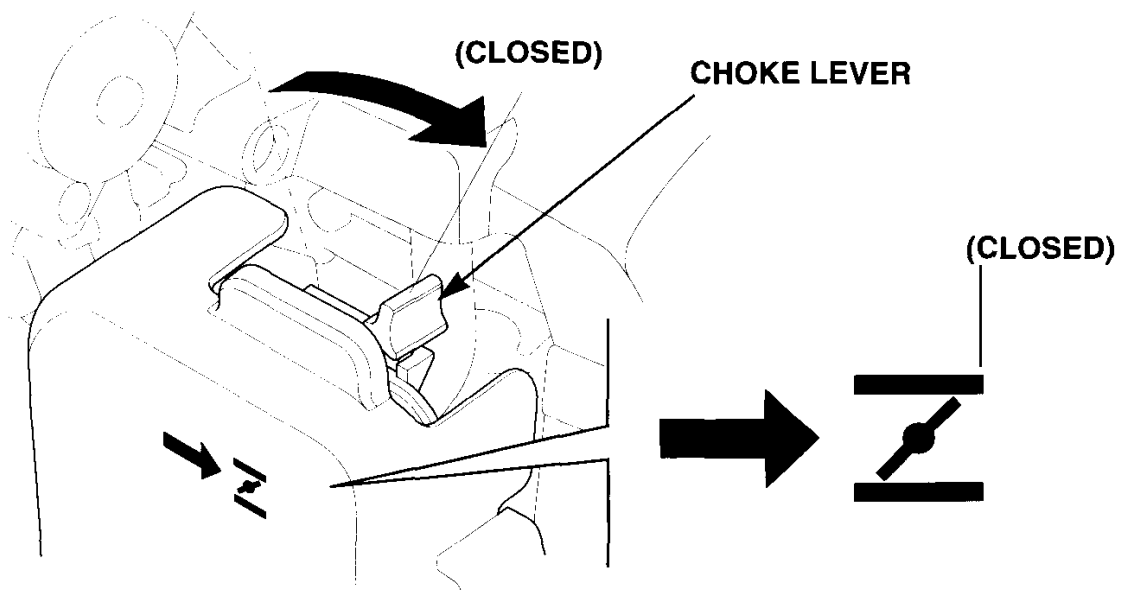
- Exhaust gas contains poisonous carbon monoxide. Never run the engine in an enclosed area. Be sure to provide adequate ventilation.
- Start the engine in a place away from the people, pets, and surrounding buildings. Be sure there are no obstacles in the working area.

1. Turn the engine switch to the ON position.

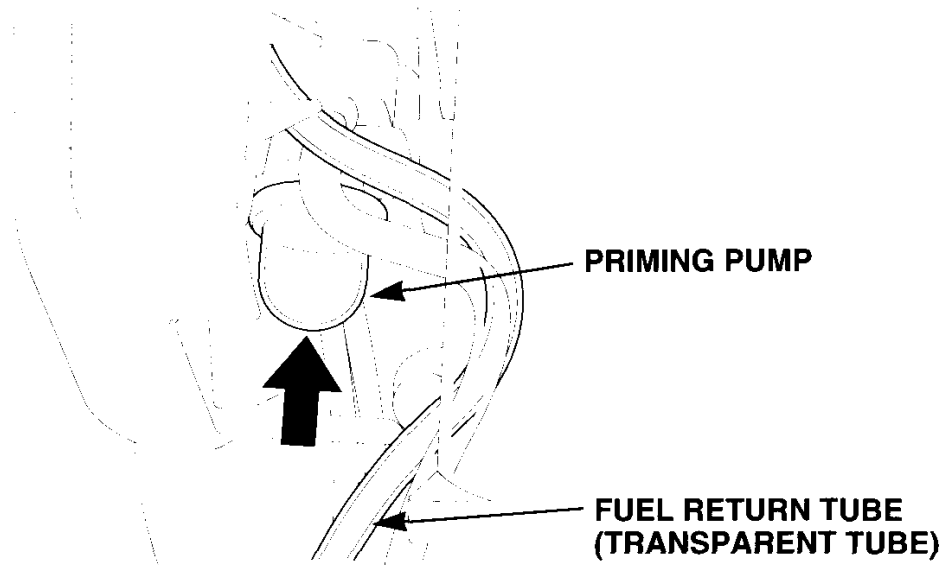


2. To start a cold engine, move the choke lever to the CLOSED position.

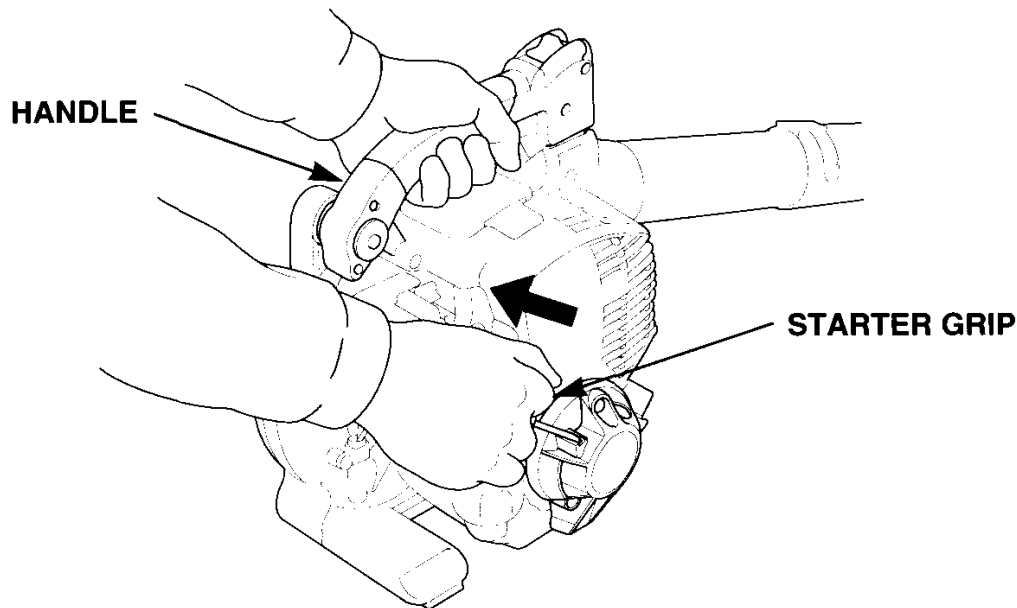
To restart warm engine, leave the choke lever in the OPEN position.



3. Press the priming pump several times until a flow in the fuel return tube (transparent tube) is visually noticed.



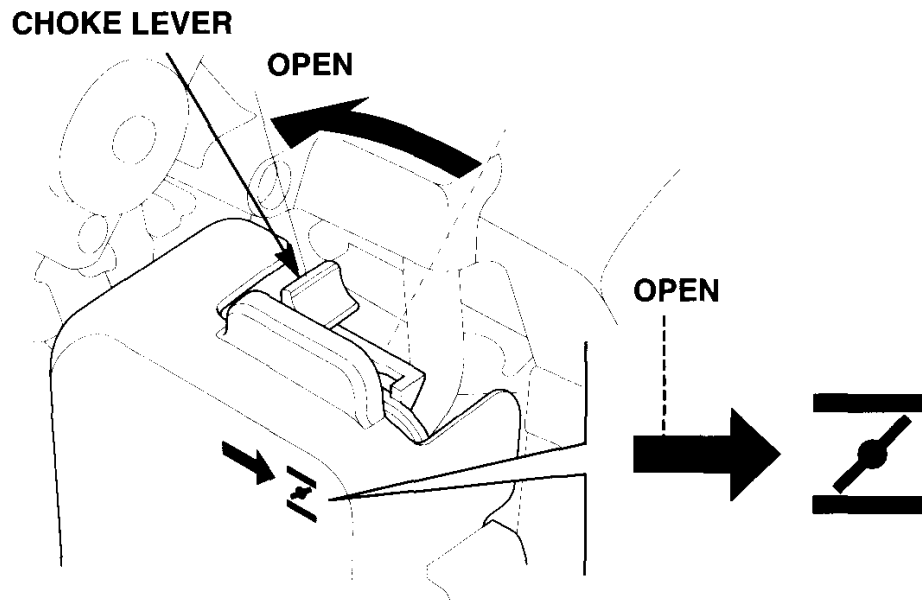
4. Hold the handy blower by the handle securely. Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.



CAUTION:

- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter grip and the other parts.
- Damage may result if the starter grip is pulled while the engine is running.
- Place the handy blower on a firm level ground before starting the engine.
- Be sure that the people and pets are away from the handy blower, especially behind you, before pulling the starter grip.

-
5. If the choke lever has been moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



Hot Restart

If the engine is operated at higher ambient temperatures then turned off and allowed to sit for a short time, it may not restart on the first pull.

If necessary, use the following procedure:

IMPORTANT SAFETY PRECAUTION

Turn the engine switch to the OFF position before performing the following procedure. This will prevent the engine from starting and running at fast speed when the throttle is in the full throttle position. If the engine starts, with the throttle in the full throttle position, the blower can move at the fast speed. This may result in personal injury.

1. Turn the engine switch to the OFF position.
2. Move the choke lever to the OPEN position.
3. Hold the throttle lever in the full throttle position (FAST).
4. Pull the starter grip 3 to 5 times.
5. Follow the **STARTING THE ENGINE** procedure on page 26 and start the engine with the choke lever in the OPEN position.

7. BLOWER OPERATION

Read and understand the safety instructions on pages 4 to 10 before operating the handy blower.

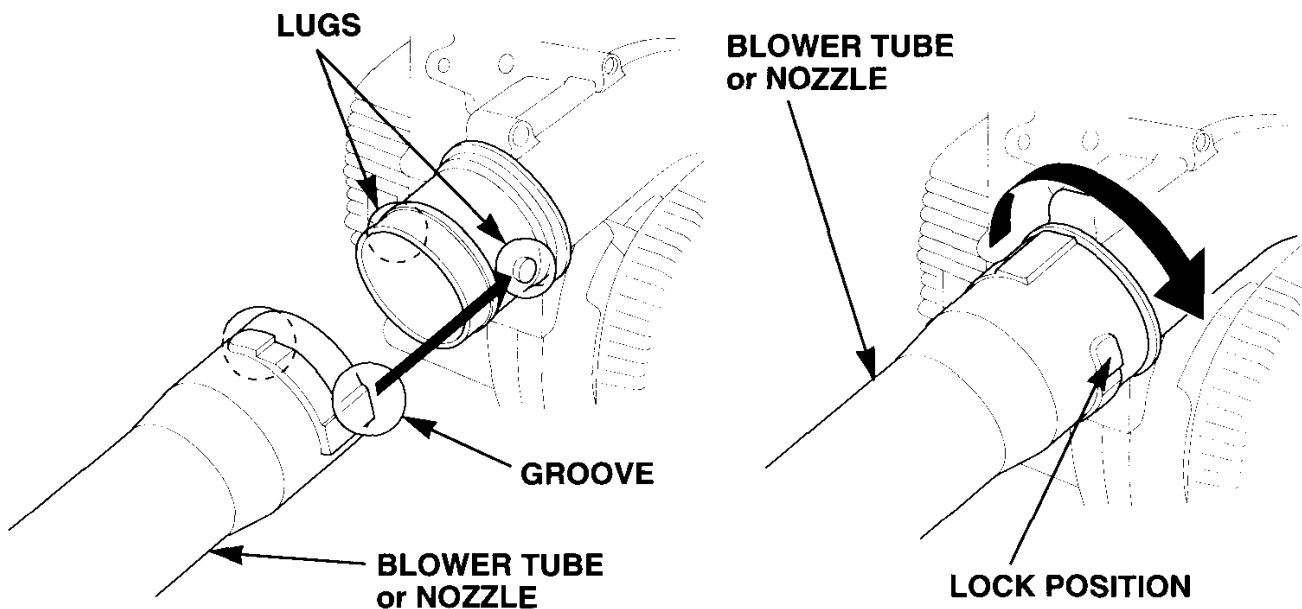
If you notice any abnormal sound, smell, vibration or other unusual signs, stop the engine immediately and consult your authorized Honda dealer.

Assembling and removing the blower tube and nozzle

1. Align the lugs on the blower port of the handy blower with the grooves in the blower tube, and push the blower tube onto the blower port. Turn the blower tube in the direction shown with the arrow until it locks.
2. Align the lugs on the blower tube with the grooves in the nozzle and push the nozzle onto the blower tube. Turn the nozzle in the direction shown with the arrow until it locks.
3. Check the blower tube and nozzle for looseness and that they are locked in position.

NOTE:

Check the blower tube and nozzle for looseness and lock in position. Do not use the handy blower if it is loose. Damaged blower can cause a personal injury or equipment damage.



4. Removal is the reverse order of installation.

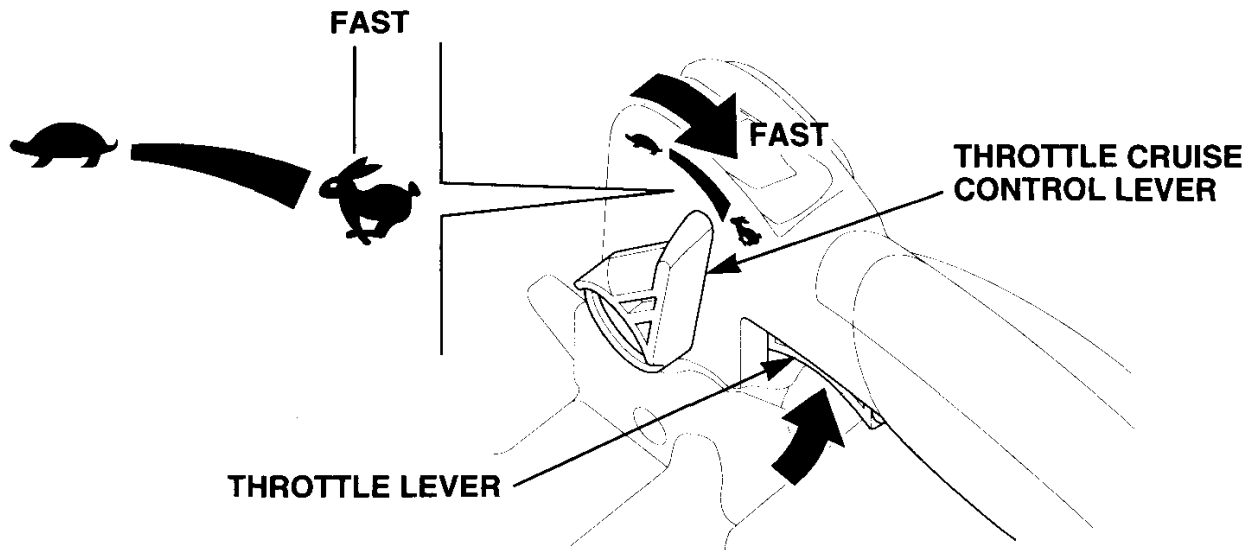
CAUTION: Do not run the engine with the blower tube and nozzle removed from the handy blower. The engine speed drops possibly causing engine malfunction.

Starting the engine

Start the engine according to the engine start procedure (see pages 26).

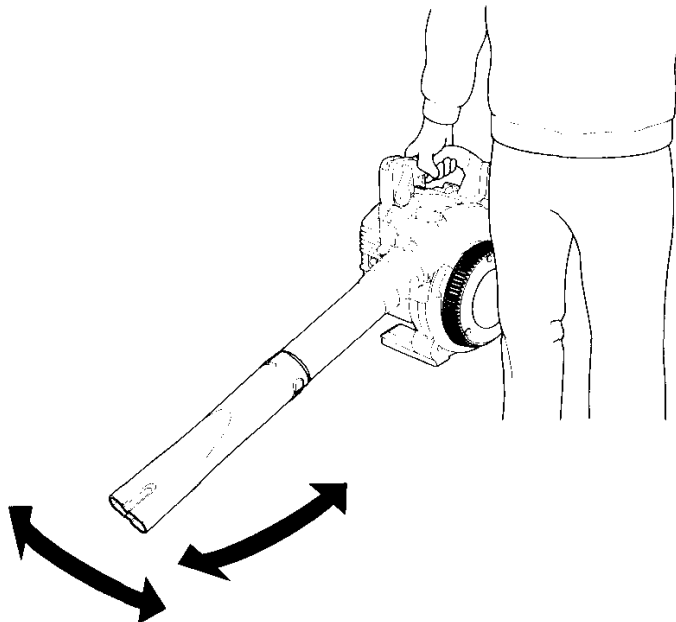
Blower operation

1. Squeeze the throttle lever while the engine is running, and move the throttle cruise control lever to the FAST position.

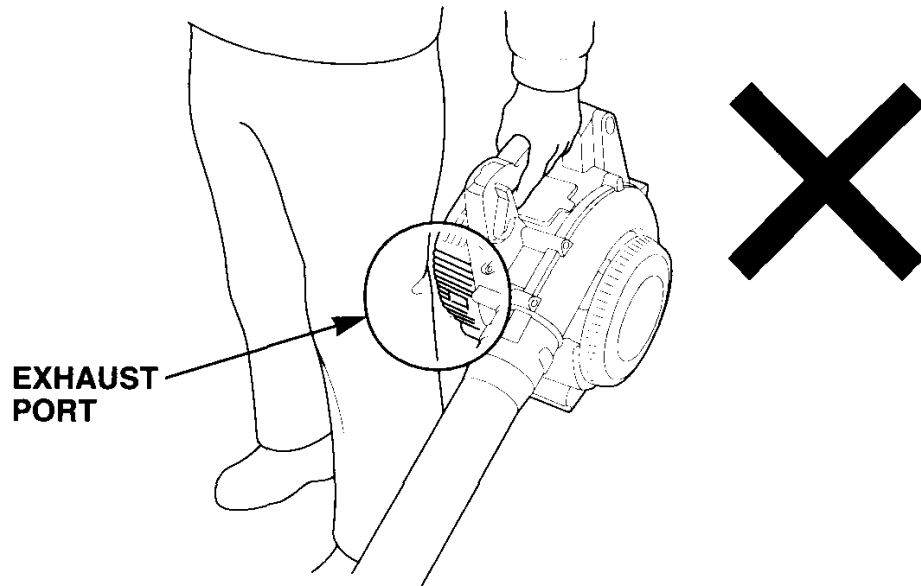


CAUTION: If you notice any abnormal rotation of the handy blower, consult your authorized Honda dealer to have it check or repair your handy blower.

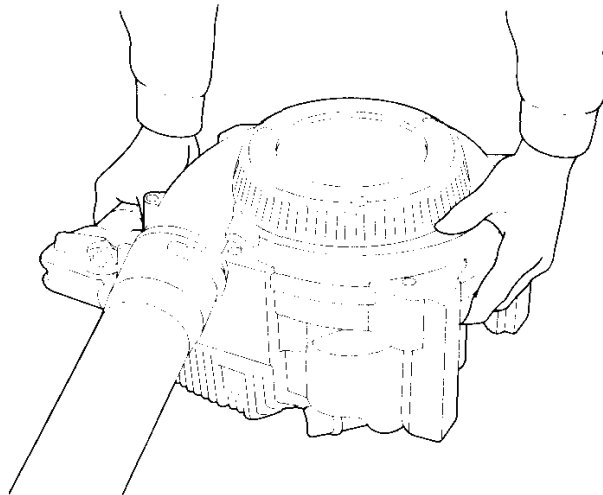
2. Hold the handy blower with your right or left hand. Blow the dead leaves, etc. and collect them by moving the handy blower right and left and back and forth.



CAUTION: When operating the handy blower with your left hand, do not hold it in the position shown (i.e. exhaust port close to or in contact with your body). You can get burned with the heat of the exhaust air.



- This handy blower is designed to operate with one hand. However, it also can be operated while holding it by the handle and the support at the underside of the engine with the two hands.



NOTE:

Move the throttle cruise control lever to the "SLOW" position, release the throttle lever, and move the engine switch to the "OFF" position before you leave from the handy blower.

How to use the nozzle

This handy blower is designed to be applicable to various cleaning work by using the fan nozzle or round nozzle (optional part).

- The fan nozzle produces wide and strong airflow. You can control application of this airflow to the working area very precisely.
This fan nozzle is excellent to blow the flat surface for collection of sawdust, leaves, cut grass, etc. thoroughly.
- The round nozzle (optional part) is excellent for collection on uneven surfaces (e.g. field, lawn yard, etc.)

For efficient use of the handy blower:

To minimize the blowing time, collect the debris, etc. with a rake or broom before blowing.

To minimize the debris that came to the surface and contamination:

- When the debris, etc. that you are to collect are very dusty, remove the dust a little from the surface.
- Expand the blower nozzle enough to apply the airflow as close to the ground surface as possible.
- Blow the debris, etc. with care not to let the blown debris hit on the people, children, pets, open windows and the just cleaned cars.
- Take care not to let the blown debris hit on the neighbors' property.
- Clean the working area after blowing.

To minimize the noise:

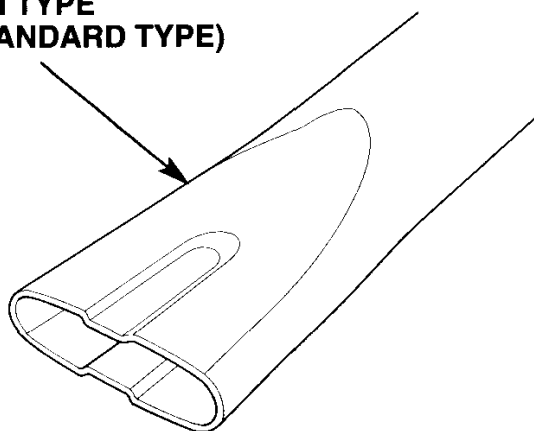
- Operate the handy blower only in the daytime of weekday. Avoid operation at the time when the people are sleeping or resting (e.g. early in the morning, late at night, or at noon recess). Observe the local regulations and work at an adequate time. Normally, we recommend that you operate the handy blower in the daytime of weekday when the people are working, too. Operation on weekend and holiday is not recommended so you do not bother the neighboring.
- Use one handy blower at a time if possible. The fewer the number of the engines is, the smaller the noise is generated.
- Operate the handy blower at the slower throttle speed as much as possible.
- Check the handy blower, especially the muffler, intake air port and the air filter before operation.

Like cleaning the terrace and entrance by spraying water with a hose, this handy blower is designed to be very good to collect the grass, debris, etc. adequately on the lawn and yard.

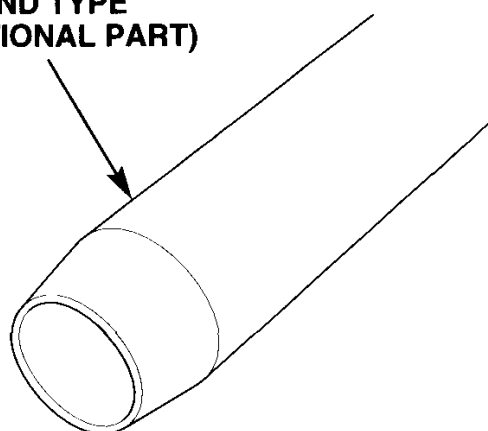
Nozzle shape

Two types of the nozzle in shape are available as shown.

**FAN TYPE
(STANDARD TYPE)**



**ROUND TYPE
(OPTIONAL PART)**



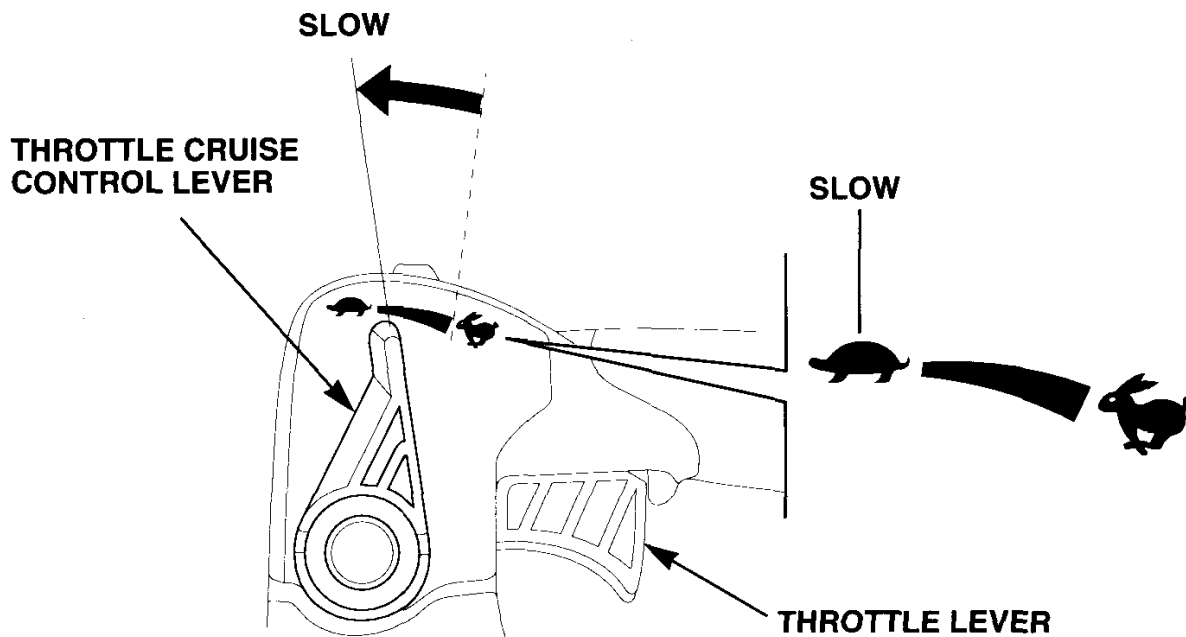
8. STOPPING THE ENGINE

In an emergency:

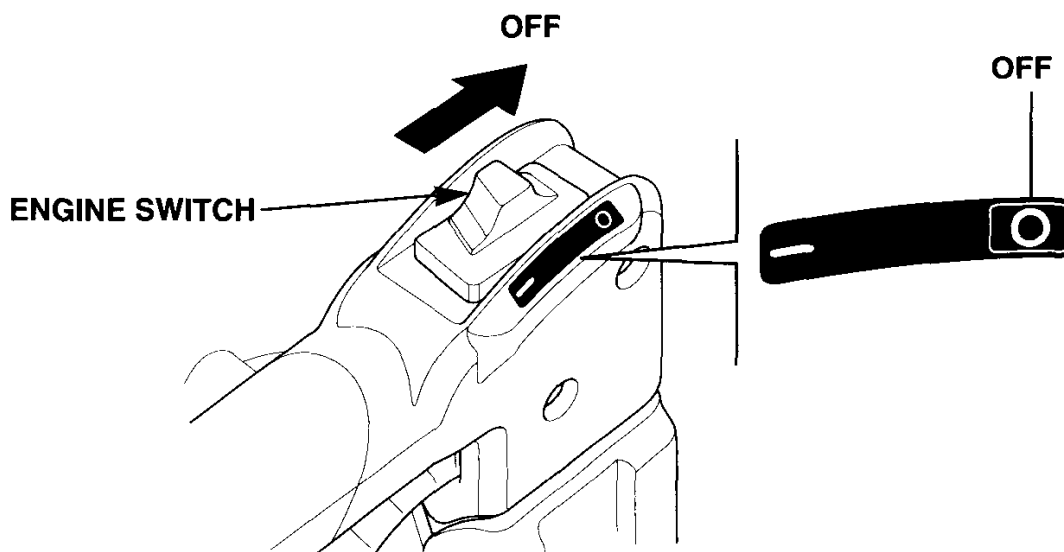
Turn the engine switch OFF.

Normal stop:

1. Release the throttle lever and move the throttle cruise control lever to the SLOW position.



2. Turn the engine switch to the OFF position.



9. MAINTENANCE

⚠ WARNING

- Before performing any maintenance, place the handy blower on a level surface, stop the engine and remove the spark plug cap to be certain the engine will not start accidentally.
- The handy blower 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 handy blower.

Periodic inspection and adjustment of the Honda HHB25 are essential if high level performance is to be maintained. Regular maintenance will also help to extend service life. The required service intervals and the kind of maintenance to be performed are described in chart on the following page.

Maintenance schedule

REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first.		Each use	First month or 10 hrs.	Every 3 months or 25 hrs.	Every 6 months or 50 hrs.	Every year or 100 hrs.	Every 2 years or 300 hrs.	Refer to page
Item								
Engine oil	Check level	○						P. 19
	Change		○		○			P. 38
Air cleaner	Check	○						P. 24
	Clean			○ (1)				P. 40
Engine cooling fin	Check				○			P. 46
Nuts, bolts, fasteners (Retighten if necessary)	Check	○						P. 25
Combustion chamber	Clean	After every 300 hrs. (2)						—
Spark plug	Check-adjust					○		P. 42
	Replace						○	P. 42
Throttle cable	Check	○						P. 44
Throttle lever	Check	○						P. 44
Valve clearance	Check-adjust					○ (2)		—
Fuel tank	Clean					○		P. 49
Fuel filter	Check					○		P. 47
Fuel tubes	Check	Every 2 years (Replace if necessary.) (2)						—
Oil tube	Check	Every 2 years (Replace if necessary.) (2)						—
Idle speed	Check-adjust					○ (2)		—

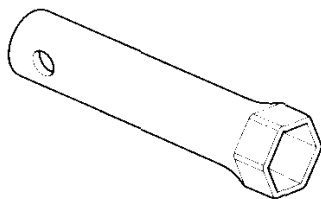
NOTE: (1) Service more frequently when used in dusty areas.

(2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to Honda shop manual for service procedures.

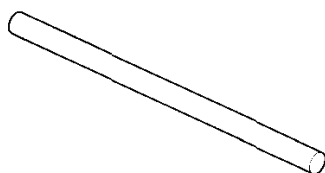
(3) Log hours of operation to determine proper maintenance intervals.

Tool kit

The tools supplied are necessary for performing some periodic maintenance, simple adjustments and repairs.
Store the tools in the designated place.



SPARK PLUG WRENCH



BAR (used to turn a spark plug wrench)

Engine oil change

CAUTION: If the engine has been running, the engine, muffler and the engine oil are very hot and they remain hot for a while after stopping the engine. To protect you from burn, wait until they cool down before starting the oil change.

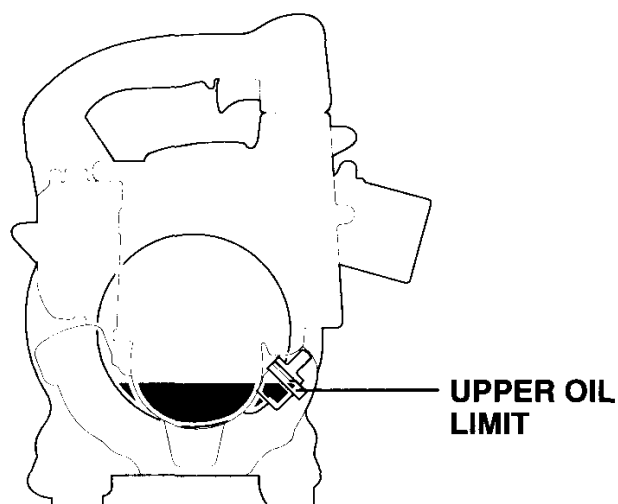
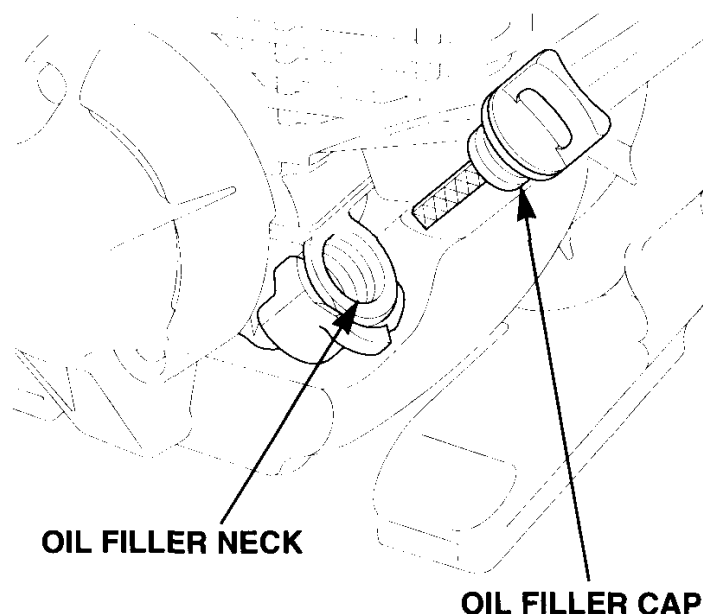
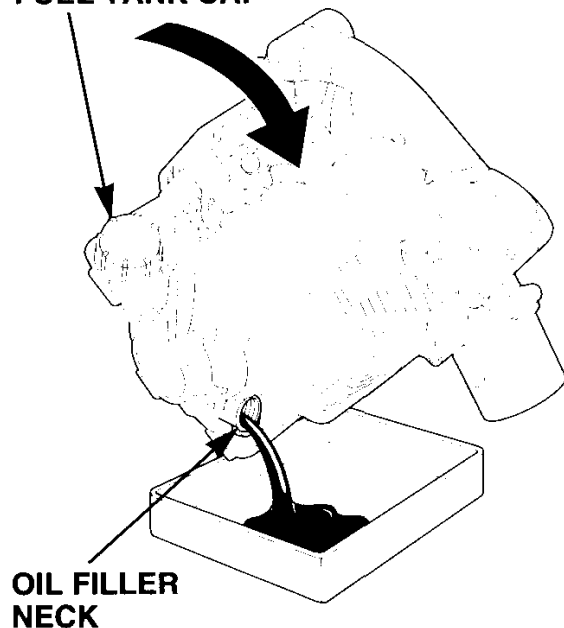
NOTE: Drain the oil while the engine is still warm to assure rapid and complete draining.

1. Check the fuel tank cap is tightened.
2. Remove the oil filler cap and drain the oil into the oil container by tipping the engine toward the oil filler neck.
3. Refill with the recommended oil (see page 20) and check the oil level (see page 19).
4. Install the oil filler cap.

ENGINE OIL CAPACITY: 0.08 ℓ (0.08 US qt, 0.07 Imp qt)

Wash your hands with soap and water after handling used oil.

FUEL TANK CAP



NOTE:

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.

If you are not sure of the disposal, consult your authorized Honda dealer.

- The engine oil deteriorates naturally. Check and change the oil regularly.
- Tighten the oil filler cap securely for prevention of oil leakage.

Air cleaner service

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

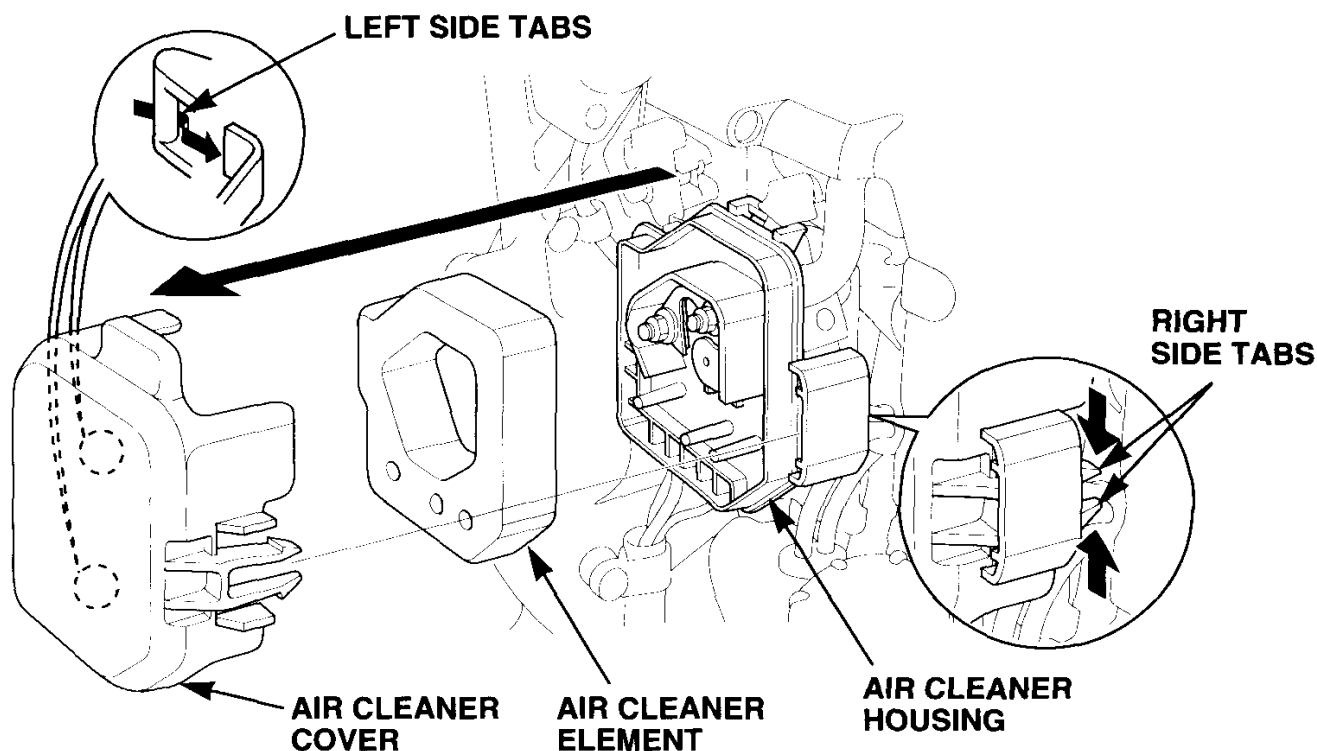
⚠ WARNING Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

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

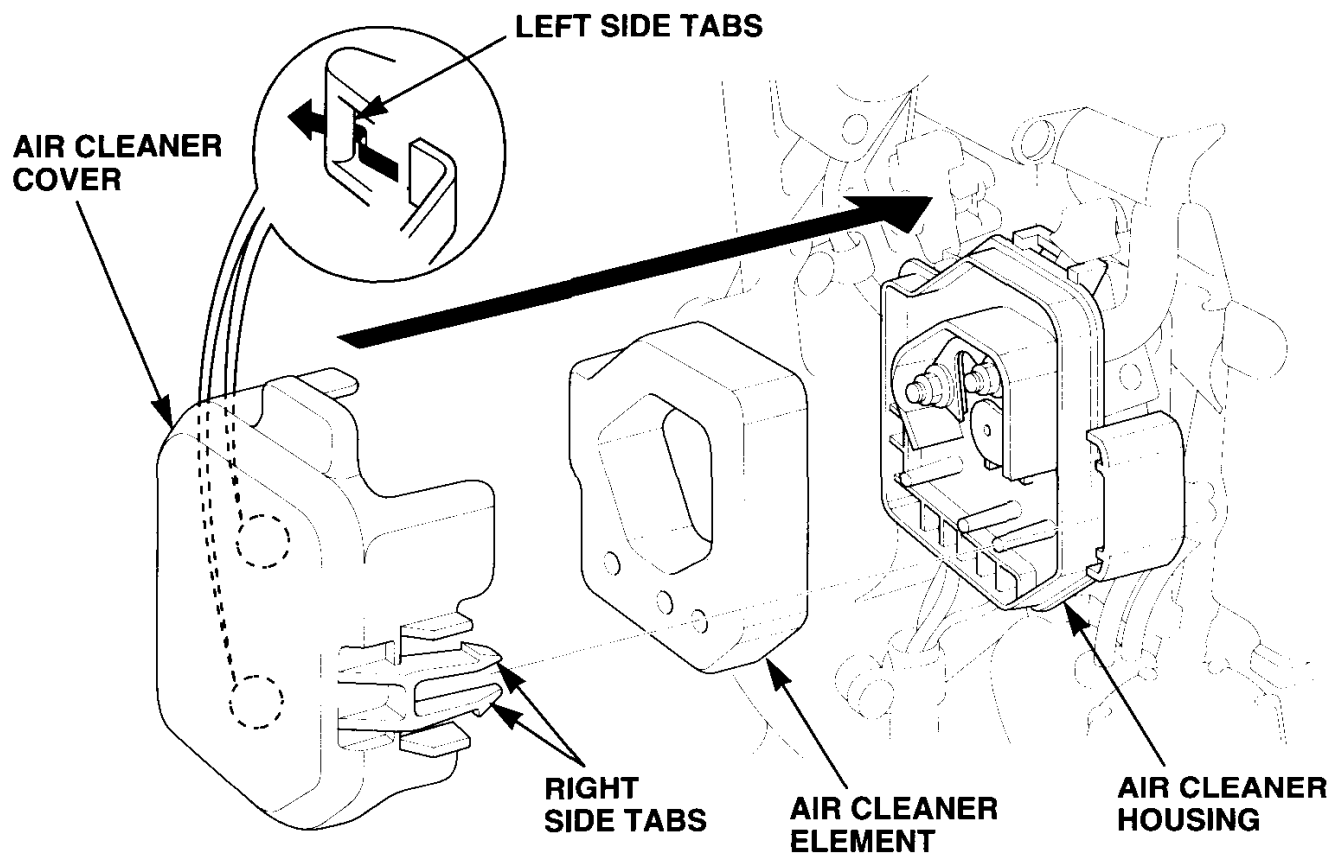
1. Move the choke lever to the CLOSED position.
2. Open the air cleaner cover by pushing the right side tabs of the air cleaner cover. Using the left side tabs as the pivoting points, turn the air cleaner cover and remove it from the air cleaner housing.
3. Remove the air cleaner element (foam element) from the air cleaner housing. Check the element for dirt.
4. Clean the foam element in the lukewarm soapy water and rinse it out. Squeeze the foam element firmly and let it dry thoroughly. Or, clean the foam element in a non-flammable or high flash point solvent and dry it thoroughly.

Soak the element in clean engine oil and squeeze out the excess oil. Note that the engine will emit white smoke if there is too much oil in the foam element.

Replace the foam element if it is excessively dirty.



5. Clean inside the air cleaner cover and air cleaner housing with a moistened cloth.
6. Reinstall the air cleaner element (foam element) and the air cleaner cover securely.



Spark plug service

Recommended spark plug: CMR5H (NGK)

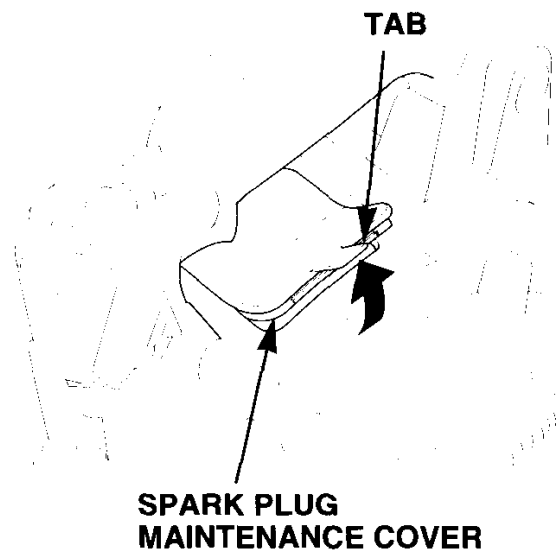
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

⚠ WARNING If the engine has been running, the spark plug and muffler are very hot. Be careful not to touch the spark plug and muffler.

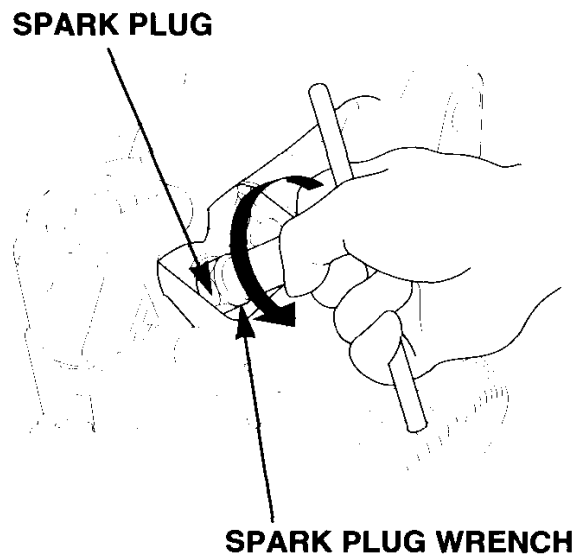
CAUTION: Never use a spark plug of incorrect heat range.

<Cleaning>

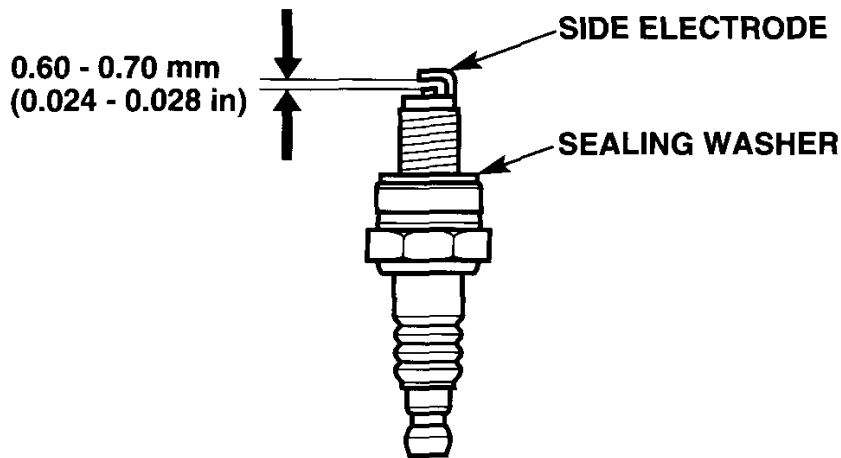
1. Pull up the smaller tab and turn up the spark plug maintenance cover.



2. Remove the spark plug cap and use the proper size spark plug wrench to remove the spark plug.
3. Visually inspect the spark plug. Discard it if there is apparent wear or the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.



-
4. Measure the plug gap with a feeler gauge.
The gap should be 0.60 – 0.70 mm (0.024 – 0.028 in). Correct as necessary by carefully bending the side electrode.



5. Check that the sealing washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
6. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

NOTE:

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 installed, 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.

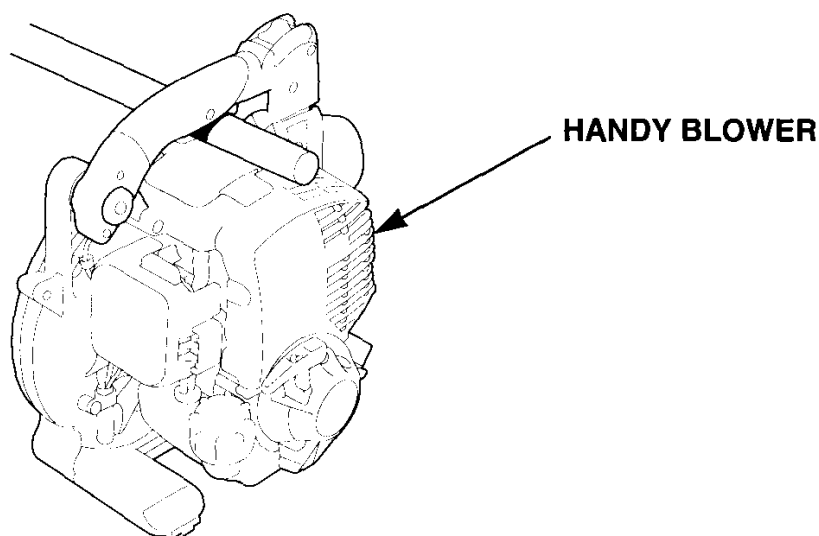
7. Attach the spark plug cap.
8. Put the spark plug maintenance cover back.

Throttle cable inspection and adjustment

Check the throttle cable free play and adjust if necessary.

<Adjustment>

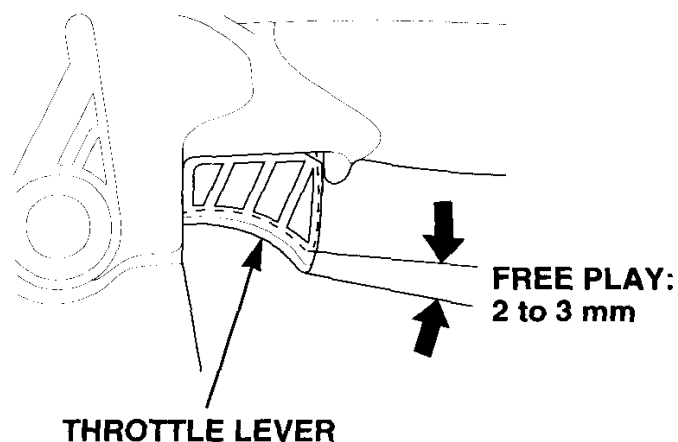
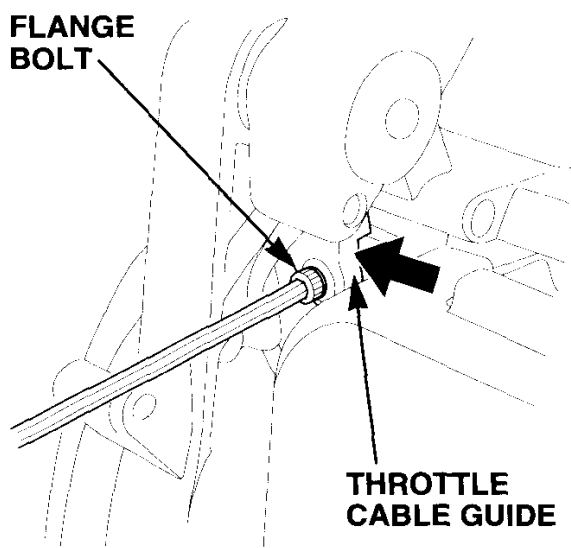
1. Insert a rod or equivalent material under the handle. Raise the handy blower off the ground by lifting the rod up.



NOTE:

The handle of this handy blower features the vibration-proof structure. Adjust the throttle cable free play by lifting the handle up, or the engine speed can increase when holding the handle.

2. Loosen the flange bolt of the throttle cable guide. Adjust the throttle cable free play by pushing the guide in the direction shown with the arrow.
Adjust the free play so that it is 2 to 3 mm at the tip of the throttle lever.



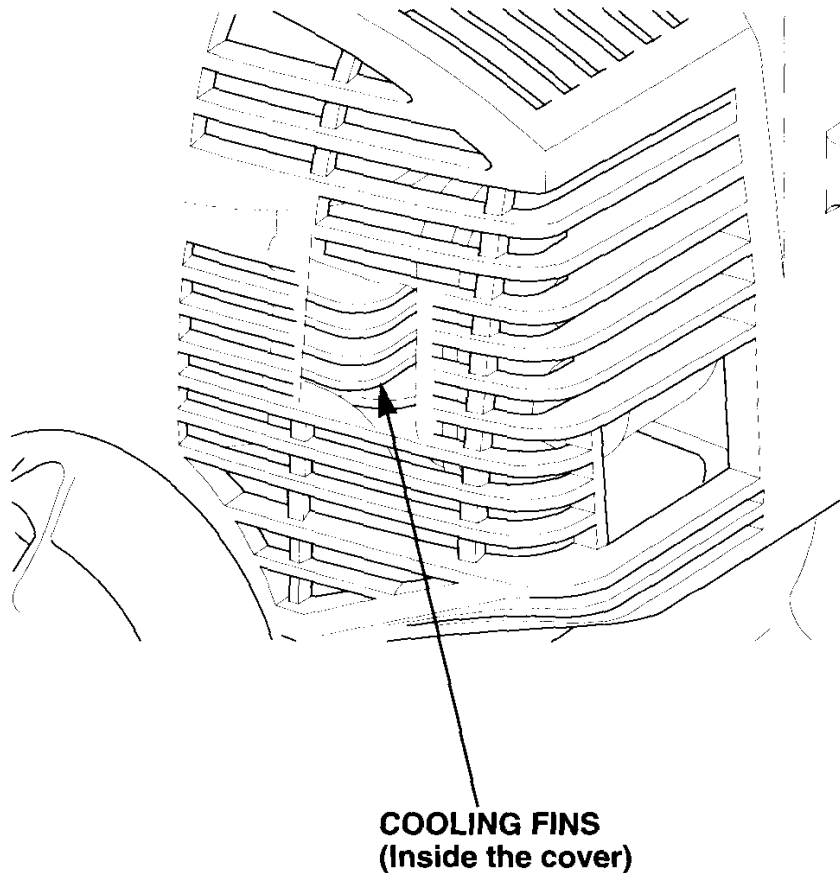
NOTE

We recommend that you use a ball-pointed hex. wrench for smooth adjustment of the throttle cable guide.

3. Tighten the flange bolt securely.
4. After adjusting the throttle cable, start the engine and check that the throttle lever functions properly. The handy blower should turn at high speed when the throttle lever is squeezed, and it should turn at low speed when the lever is released.
5. If adjustment cannot be made properly, consult your authorized Honda dealer.

Engine cooling fins inspection

Inspect the cooling fins visually through the cover. If there are dry grass, leaves and mud clogged, consult your authorized Honda power equipment dealer for cleaning it.

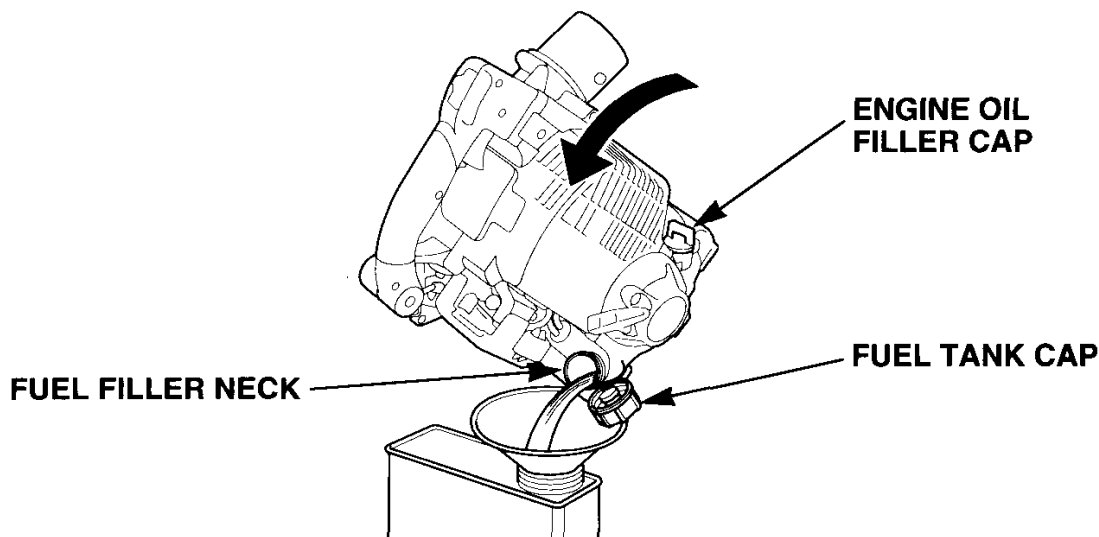


Fuel filter service

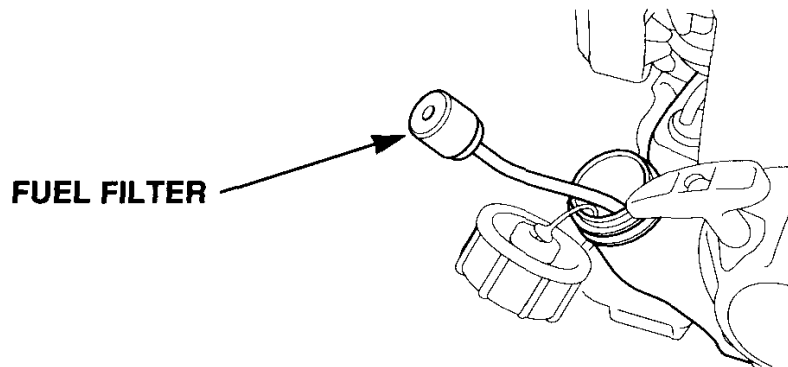
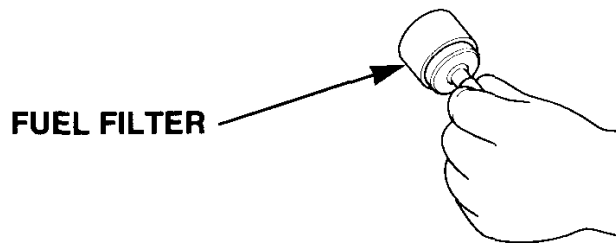
Note that the clogged fuel filter can cause poor engine performance.

⚠ WARNING Gasoline is extremely flammable and is explosive under certain conditions. You can be burned or seriously injured when handling fuel. Observe the following when servicing the fuel tank strainer.

- Stop the engine.
 - Service in a well-ventilated area.
 - Keep heat, sparks, and flame away. Do not smoke.
 - Do not spill the gasoline. If you spilled the gasoline, wipe it up immediately and dispose of the cloth or shop towel you wiped the spilled gasoline in a manner that is compatible with the environment.
1. Be sure that the engine oil filler cap is tightened securely.
 2. Remove the fuel tank cap and drain the gasoline into the container by tipping the engine toward the fuel filler neck.



-
3. Pull out the fuel filter with the mechanic's wire from the fuel filler neck gently.
 4. Check the fuel filter for contamination. If the fuel filter is dirty, wash it gently with non-flammable or high flash point solvent. If the fuel filter is excessively dirty, replace it.



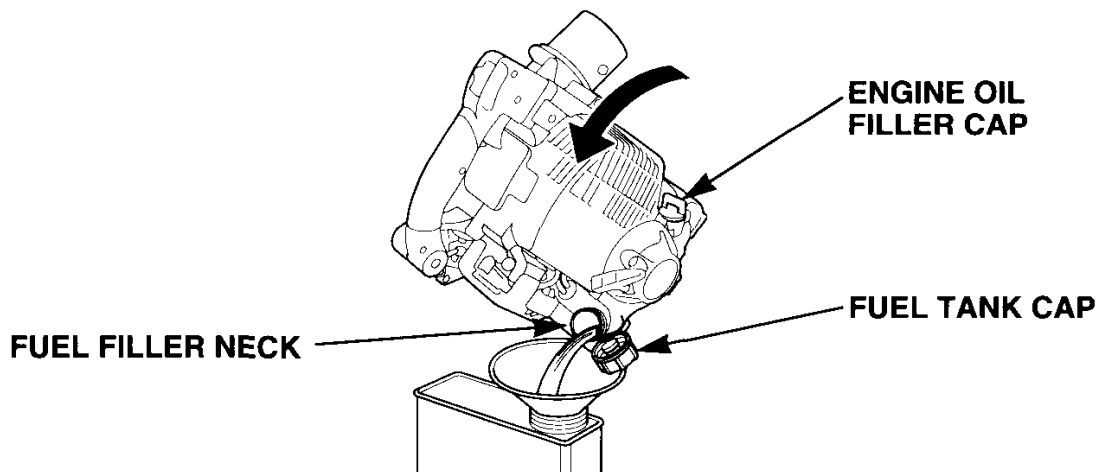
5. Reinstall the fuel filter into the fuel tank and tighten the fuel tank cap securely.

Fuel tank cleaning

Water and dust, dirt or foreign material in the fuel tank cause a poor engine performance.

⚠ WARNING Gasoline is extremely flammable and is explosive under certain conditions. You can be burned or seriously injured when handling fuel. Observe the following when cleaning the fuel tank.

- Stop the engine.
 - Clean in a well-ventilated area.
 - Keep heat, sparks, and flame away. Do not smoke.
 - Do not spill the gasoline. If you spilled the gasoline, wipe it up immediately and dispose of the cloth or shop towel you wiped the spilled gasoline in a manner that is compatible with the environment.
1. Be sure that the engine oil filler cap is tightened securely.
 2. Remove the fuel tank cap and drain the gasoline into a container by tipping the engine toward the fuel filler neck.



3. Pull out the fuel tank filter with the mechanic's wire from the fuel filler neck gently.
4. Remove the water and dirt stood in the fuel tank by rinsing the inside of the fuel tank with non-flammable or high flash point solvent.
5. Reinstall the fuel tank filter into the fuel tank and tighten the fuel tank cap securely.

10. STORAGE

Proper storage preparation is essential for keeping your handy blower trouble free and looking good. The following steps will help to keep rust and corrosion from impairing your handy blower.

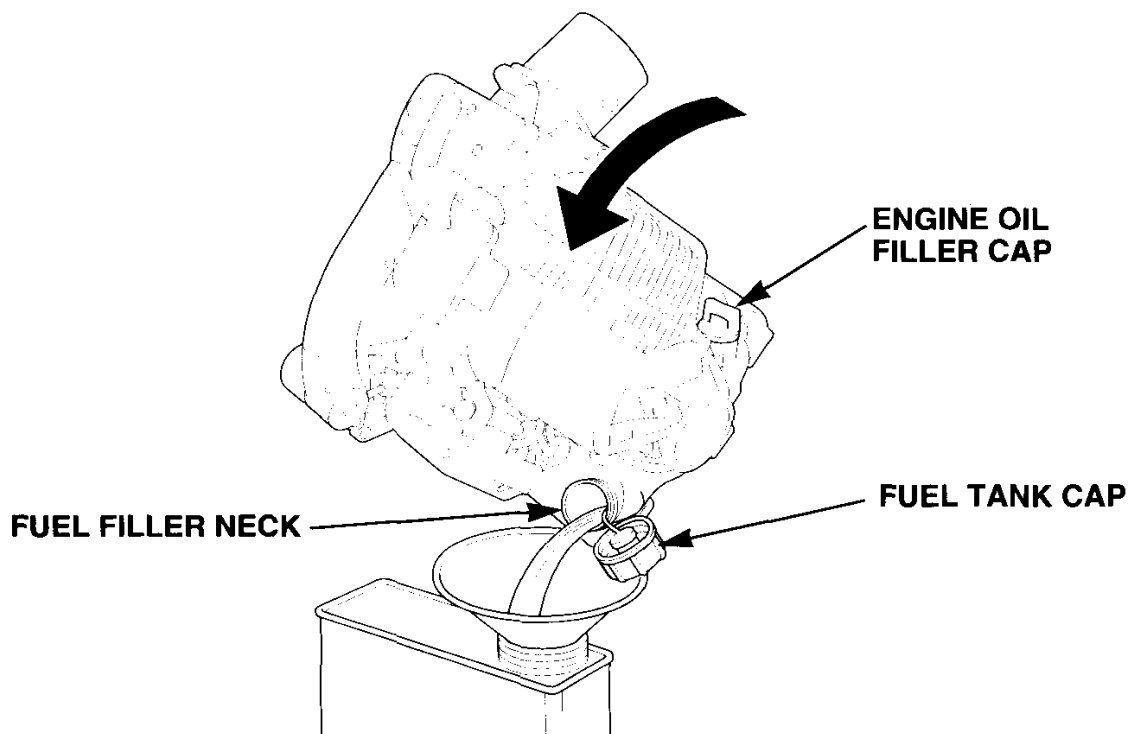
CAUTION:

- If the handy blower has been running, the engine is very hot; allow it to cool before proceeding.
- Place the handy blower on a level surface and remove the spark plug cap to be certain the engine will not start accidentally.

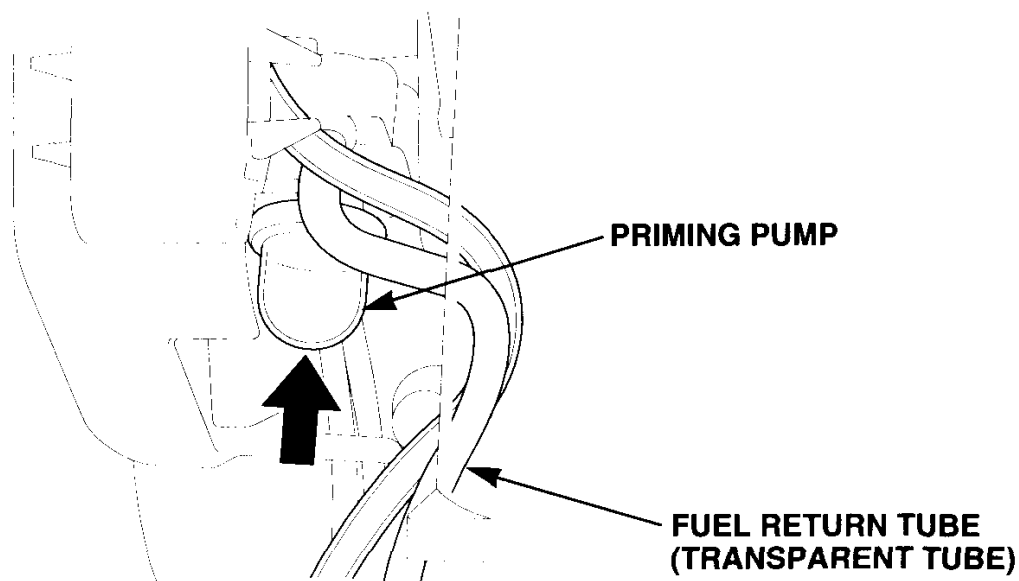
1. Clean all exterior surfaces, touch up any damaged paint, and coat other areas that may rust with a light film of oil.
2. Drain the fuel

⚠ WARNING Gasoline is extremely flammable and is explosive under certain conditions. You can be burned or seriously injured when handling fuel. Observe the following.

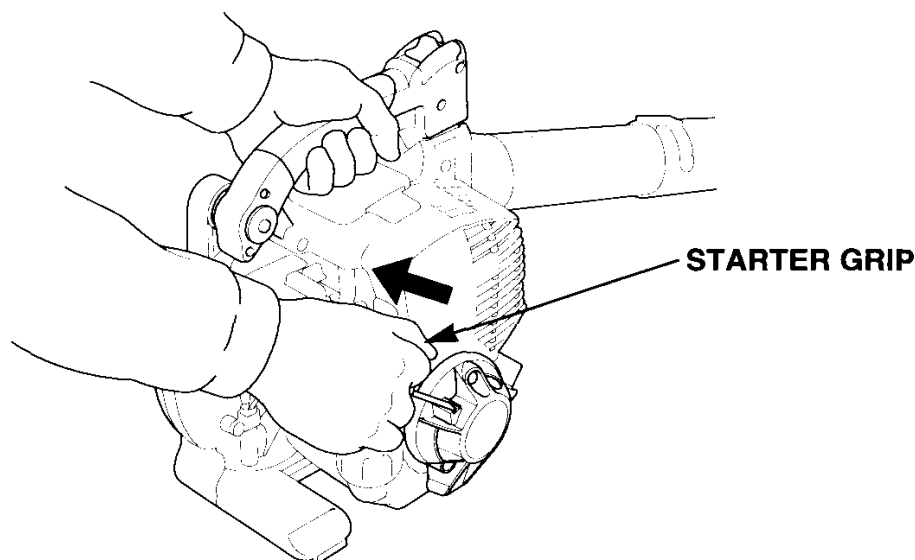
- a. Be sure that the engine oil filler cap is tightened securely.
- b. Remove the fuel tank cap and drain the fuel into the container by tipping the engine toward the fuel filler neck.



-
- c. Press the priming pump several times until all fuel left in the fuel return tube is returned into the fuel tank.



- d. Tip the engine toward the fuel filler neck again to drain the fuel left in the fuel tank into the container.
- e. Tighten the fuel tank cap securely after draining the fuel completely.
3. Clean the engine oil (see page 38).
4. Clean the air cleaner (see page 40).
5. Remove the spark plug and pour a couple of drops of clean engine oil into the cylinder.
6. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug. Pull the starter grip slowly until resistance is felt.



7. Cover the handy blower to keep out dust.

11. TROUBLESHOOTING

When the engine does not start:

1. Is the engine switch in the ON position?
2. Is there fuel in the fuel tank (see page 22)?

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

3. Is gasoline reaching the carburetor?
To check, press the priming pump several times (see page 27).
4. Is the spark plug in good condition (see page 42)?
5. If the engine still does not start, take the handy blower to an authorized Honda dealer.

12. SPECIFICATIONS

Model	Honda handy blower HHB25
Power product description code	UBAJ

Frame

Overall length	Body only	335 mm (13.2 in)
	With tube and nozzle	965 mm (38.0 in)
Overall width		265 mm (10.4 in)
Overall height		370 mm (14.6 in)
Dry mass (weight) (Without tube and nozzle)		4.5 kg (9.9 lbs)
Fully supplied mass (weight)		5.2 kg (11.6 lbs)
Maximum wind speed (With fan nozzle type)		70 m/sec.

Engine

Model	GX25T
Engine description code	GCALT
Engine type	4-stroke, overhead cam, 1 cylinder
Displacement	25.0 cm ³ (1.5 cu-in)
Bore and stroke	35.0 x 26.0 mm (1.4 x 1.0 in)
Engine Net Power (in accordance with SAE J1349 *)	0.72 kW (1.0 PS)/7,000 rpm
Ignition system	Transistor magneto
Engine oil capacity	0.08 lit. (0.08 US qt, 0.07 Imp qt)
Fuel tank capacity	0.32 lit (0.08 US gal, 0.07 Imp gal)
Spark plug	CMR5H (NGK)

*: The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 7,000 rpm (Engine Net Power). Mass production engines may vary from this value.

Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

Sound pressure levels

Type	ET	UT
Sound pressure level (L_{PA}) Tested by EN ISO 11806 (At 7,250 rpm)	87 dB	—
Guaranteed sound power level (L_{WA}) Tested by 2000/14/EC (At 7,250 rpm)	102 dB	—
Sound pressure level Australia New South Wales standard (At 7,250 rpm)	—	75 dB

Vibration

Tested by prEN774:2001 (At 7,250 rpm)	7 m/s ²
---------------------------------------	--------------------

Specifications may vary according to the types, and are subject to change without notice.

13. MAJOR Honda DISTRIBUTOR ADDRESSES

For European

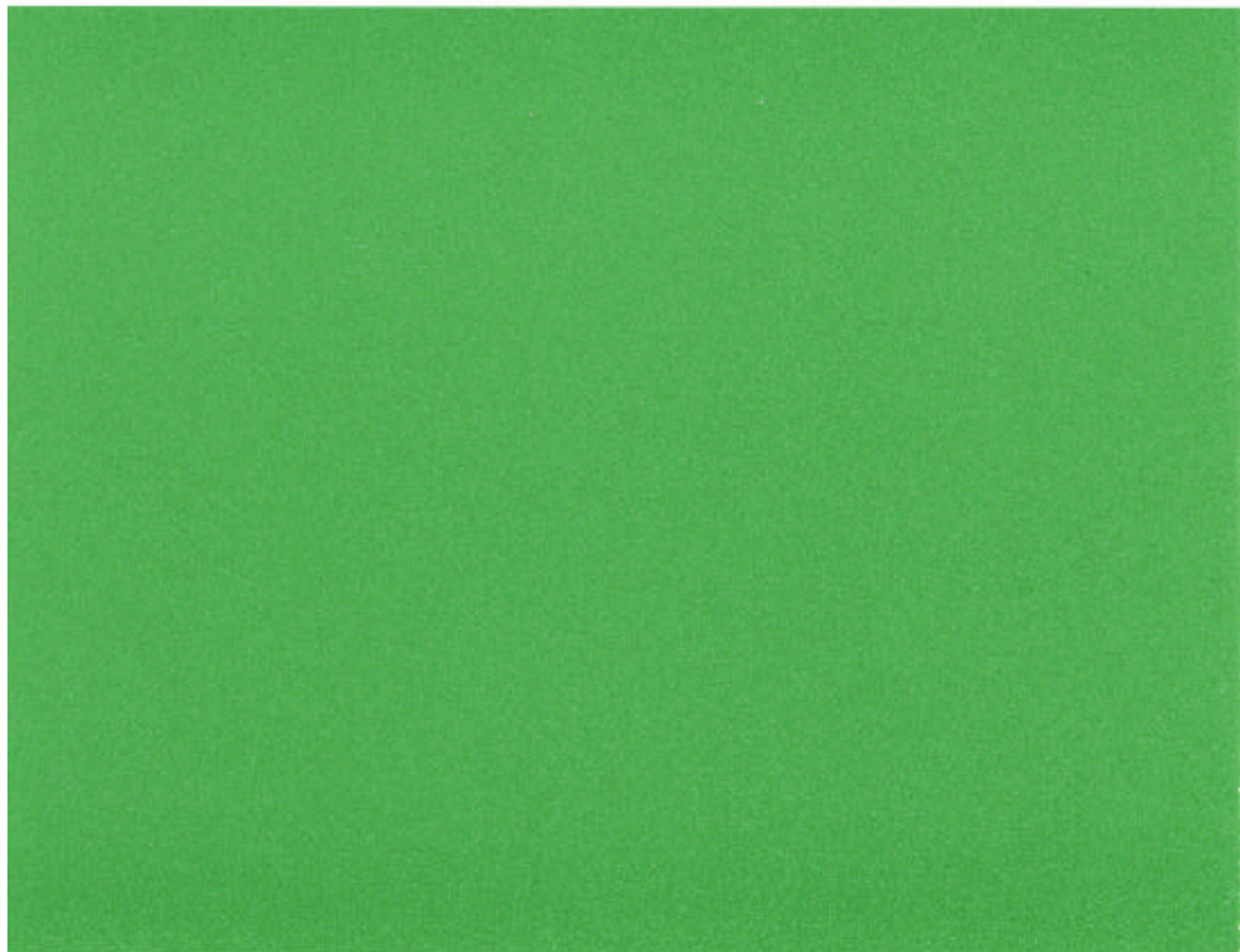
NAME OF FIRM (COMPANY)	ADDRESS	TEL: FAX:
Honda (U.K.) Limited	470 London Road, Slough, Berkshire, SL38QY, United Kingdom	Tel: 01753-590-590 Fax: 01753-590-000
Honda Europe Power Equipment S.A.	Pole 45 Rue des Chataigniers 45140 Ormes France	Tel: 2-38-65-06-00 Fax: 2-38-65-06-02
Honda Motor Europe (North) GmbH	Spredlinger, Landstraße 166 D-63069 Offenbach/Main Germany	Tel: 069-83-09-0 Fax: 069-83-09-519
Honda Belgium H.V.	Wijngaardveld 1, 9300 Aalst Belgium	Tel: 053-725-111 Fax: 053-725-100
Honda Italia Industriale S.P.A.	Via della Cecchignola, 5/7 00143 ROMA	Tel: 06-54928-1 Fax: 06-54928-400
Honda (Suisse) S.A.	Route des Moulières 10 Case Postale Ch 1214 Vernier-Geneve, Switzerland	Tel: 022-341-22-00 Fax: 022-341-09-72
Honda Nederland B.V.	Capronilaan 1 1119 NN Schiphol-Rijk Netherlands	Tel: 020-7070000 Fax: 020-7070001
Honda Austria G.M.B.H.	Honda Strasse 1 A-2351 Wiener Neudorf Austria	Tel: 223-66-900 Fax: 223-66-4130
Honda Power Equipment Sweden AB	Västkustvägen 17 202 15 Malmö, Sweden	Tel: 040-600 23 00 Fax: 040-600 23 19
Honda Produtos De Força, Portugal, S.A.	Lugar da Abrunheira S. Pedro de Penaferrim 2710 Sintra, Portugal	Tel: 351-1-9150374 Fax: 351-1-9111021
Berema A/S	Berghagan 5, Langhus Box 454, 1401 Ski Norway	Tel: 64-86-05-00 Fax: 64-86-05-49

For European (continued)

NAME OF FIRM (COMPANY)	ADDRESS	TEL: FAX:
OY Brandt AB	Tuupakantie 4 SF-01740, Vantaa Finland	Tel: 90-895-501 Fax: 90-878-5276
TIMA PRODUCTS A/S	Tårnfalkevej 16, Postboks 511 DK 2650 Hvidovre Denmark	Tel: 31-49-17-00 Fax: 36-77-16-30
Greens	Polig. Industrial Congost 08530, La Garriga (Barcelona), Spain	Tel: 93-871-84-50 Fax: 93-871-81-80
Automocion Canarias S.A. (AUCASA)	Apartado de Correos, num 206 Santa Cruz de Tenerife Canary Island	Tel: 922-61-13-50 Fax: 922-61-13-44
The Associated Motors Company Ltd.	148, Rue D'Argens, Msida Malta	Tel: 356-333001 Fax: 356-340473
Two Wheels Ltd.	Crosslands Business Park, Ballymount Road, Dublin 12, Ireland	Tel: 4602111 Fax: 4566539
General Automotive Co., S.A.	P.O. Box 1200, 101 73 Athens Greece	Tel: 346-5321 Fax: 346-7329
BG Technik s.r.o	Radlická 117/520 158 01 Praha 5 Czech Republic	Tel: 2-5694 573 Fax: 2-5694 571
Aries Power Equipment Ltd.	01-493 Warszawa, ul Wroclawska 25a Poland	Tel: 22-685 17 06 Fax: 22-685 16 03
MO.TOR. PEDO Ltd.	2040 Buda-rs Kamaraerdei -t 3. Hungary	Tel: 23-444-971 Fax: 23-444-972
MDL Motors	140 Dzirnau Street Riga LV 1050 Latvia	Tel: 371-7211071 Fax: 371-7821028
UAB "Wood Stock"	Savanoriu 174 a , LT 2600 Lithuania	Tel: 370-61-606896 Fax: 370-52-132756
Honda Slovakia spol. s r. o.	Polus Millennium Tower Vajnorska ul. 100/A 831 03 Bratislava 3 Slovak Republic	Tel: 42-1-2-4444-1156 Fax: 42-1-2-4444-1150
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