



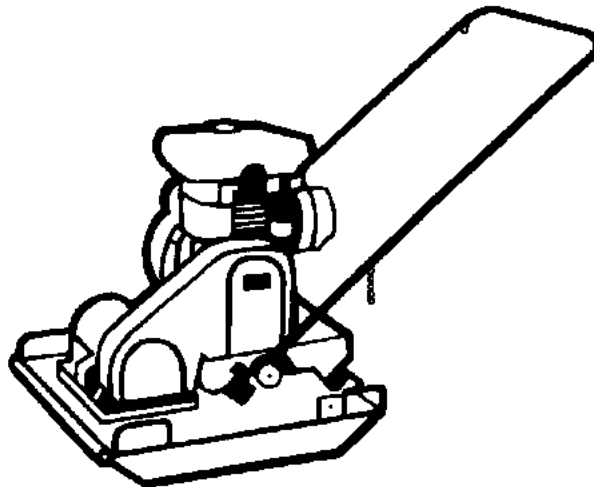
Flextool



VIBRATORY PLATE COMPACTOR

CP50 - CD50

OPERATING INSTRUCTIONS



WARNING

To reduce the risk of injury, all operators and maintenance personnel must read and understand these instructions before operating, changing accessories, or performing maintenance on Flextool power equipment. All possible situations cannot be covered in these instructions. Care must be exercised by everyone using, maintaining or working near this equipment.

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INTRODUCTION

Thank you for your selection of Flextool equipment. Flextool have specialised in the design and manufacture of quality products since 1951.

We have taken care in the design, manufacture and testing of this product. It is covered by a six month warranty. Should service or spare parts be required, prompt and efficient service is available from our branches.

General Safety Instructions for the Operation of Power Equipment

The goal of Flextool is to produce power equipment that helps the operator work safely and efficiently. The most important safety device for this or any tool is the operator. Care and good judgement are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important items, individuals should look for and obey Caution, Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities, limitations, potential hazards, how it operates, and how it stops.

APPLICATIONS

Trench compaction	Earthworks
Road maintenance	Landscaping
Brickpaving	Driveway toppings

FUNCTIONS AND CONTROLS

Motor

The motor is controlled by an ON/OFF switch or push button which is mounted on the motor below the fuel tank.

The motor speed is controlled by a remote throttle lever which is mounted on the machine handle.

Honda and Robin motors are fitted with an oil alert device which will stop the motor or prevent starting when the crankcase oil level falls below a safe level

Drive belt

Tension of the drive belt is adjustable. Loosen the four nuts on the bolts which secure the motor to the baseplate, Adjust the set screws which bear against the motor crankcase to achieve the required belt tension. Ensure that the four nuts and the set screw locknuts are tightened after adjustment.

ACCESSORIES

Transport Trolley - facilitates handling. Hooks into the baseplate. Fitted with 200mm rubber tyres.

Water Tank Kit - for dust reduction, cement stabilised soil, bitumen hot mix.

HAZARDS AND RISKS

NEVER allow any person to operate the machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY could result from improper or careless use of this machine

Plate compactors are heavy units and should be positioned by two people of appropriate strength. Using the lifting handles provided on the machine, along with correct lifting techniques.

! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place.

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not tip over, slide or fall while in operation or unattended.

DO NOT leave the machine in operation while it is unattended.

ENSURE that the walls of a trench are stable and will not collapse due to the action of the vibration, prior to commencing compaction.

ENSURE that the area to be compacted does not contain any "live" electrical cables, gas, water or communication services which may be damaged by the action of the vibration.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

DO NOT increase the governed no-load motor speed above 3,500 r/min. Any increase may result in personal injury and damage to the machine.

BE CAREFUL not to come in contact with the muffler when the engine is hot, since it can cause severe burns.

ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

! FIRE & EXPLOSION HAZARDS

PETROL is extremely flammable and explosive under certain conditions.

ENSURE that petrol is only stored in an approved storage container.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.

DO NOT over fill the fuel tank and avoid spilling petrol when refuelling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.

ENSURE that the fuel tank cap is securely fitted after refuelling.

! CHEMICAL HAZARDS

DO NOT operate or refuel a petrol or diesel motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

! NOISE HAZARDS

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure. As required by Occupational Health and Safety regulations.

PROTECTIVE CLOTHING

ALWAYS wear approved hearing protection when working in a confined work space. Protective goggles and a dust mask should be worn when working in a dusty environment. Protective clothing and footwear may also be desirable when working with hot mix bitumen.

! ADDITIONAL HAZARDS

Slip/Trip/Fall is a major cause of serious injury or death. Beware of uneven or slippery work surfaces.

Exercise care when working in the vicinity of unprotected holes or excavations

OPERATION

The machine is best suited to the compaction of bituminous and granular materials e.g. granular soils, gravels and sands or mixtures of both. Cohesive soils such as silt and clay are best compacted using the impact force produced by a vibrating rammer.

Where possible the site should be graded and levelled before commencing compaction.

Correct moisture content in soil is vital to proper compaction. Water acts as a lubricant to help slide soil particles together. Too little moisture means inadequate compaction; too much moisture leaves water-filled voids that weaken the soil's load-bearing ability.

Compaction of dry materials will be facilitated by moistening with a water hose fitted with a sprinkler.

Excessive watering or water content will cause the machine to stall.

The optional water tank kit is recommended when the machine is used on bituminous surfaces as the water film prevents a build up of material on the underside of the plate.

Use unleaded grade petrol and ensure that the fuel is free from contamination.

The vibratory motion provides a self propelling action. Position the handle at the opposite end of the machine to the vibrator.

Start the motor using the recoil starter. (If the motor is fitted with an on/off switch this must first be turned to ON before starting.)

For more information on starting and correct operating procedures of the motor, refer to the motor operation manual supplied with the unit.

Increase the motor speed to the maximum setting using the hand throttle lever, before commencing compacting.

The machine should be controlled by grasping the handle with both hands and applying restraint to control the forward motion,

Steer the machine by moving the handle sideways to the right or left.

ALWAYS maintain good footing so that you do not slip and lose control when starting or operating the machine

If the optional water tank is fitted, the flow rate can be controlled by adjusting the cock in the supply hose to the sprinkler bar.

CARE AND PREVENTIVE MAINTENANCE

Check the oil level in the motor crankcase daily.

Check the vibrator oil level weekly.

Inspect the rubber anti vibration mounts for wear or deterioration.

If the optional water tank is fitted inspect the water hose and its connections to ensure that they do not leak.

Clean the underside of the plate regularly to prevent a build up of material.

SERVICE

Change the oil in the motor crankcase regularly to minimise wear.

When servicing the vibrator replace the oil with 100mL of 20W-40 motor oil.

Inspect, clean and/or replace the motor air cleaner regularly, particularly when operating in a dusty environment.

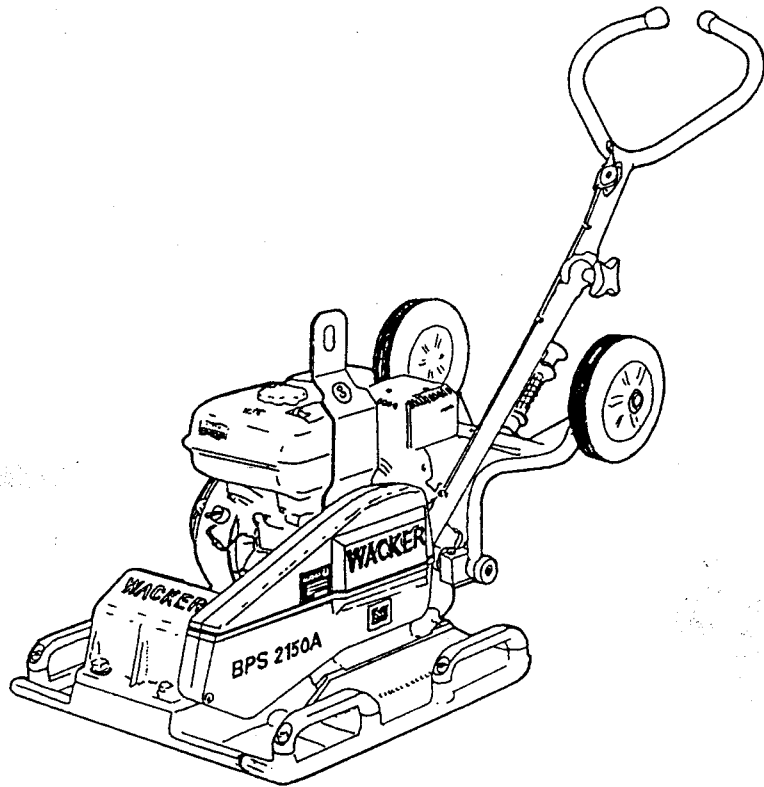
Inspect, clean and/or replace the spark plug regularly

Check all fasteners for tightness as the machine is subject to vibration.

Check vee belt tension, wear and that it is running true, adjust or replace as required.

WACKER

BPS 2150A



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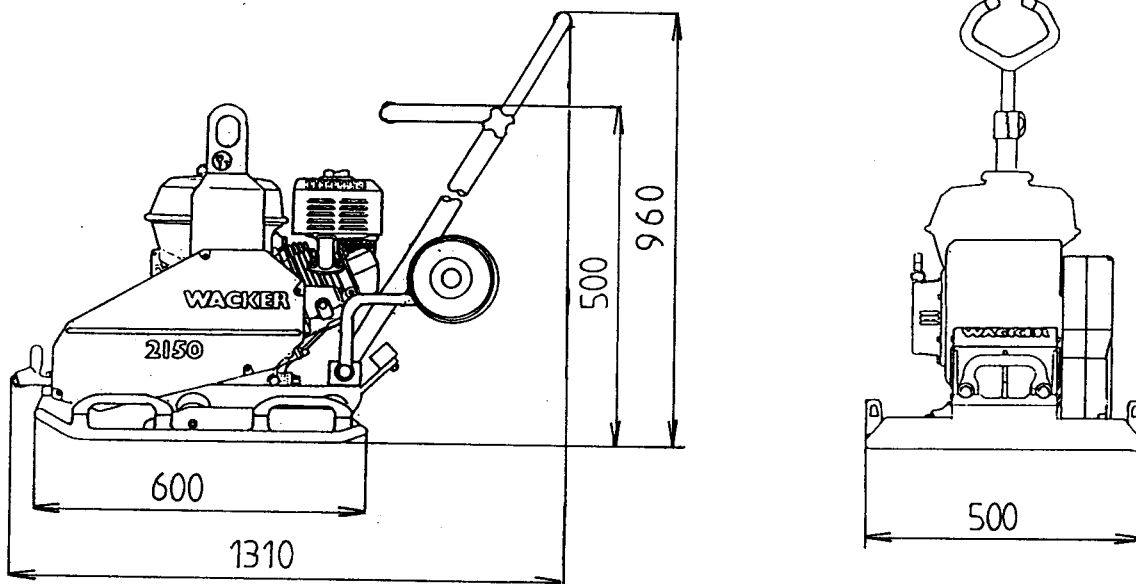
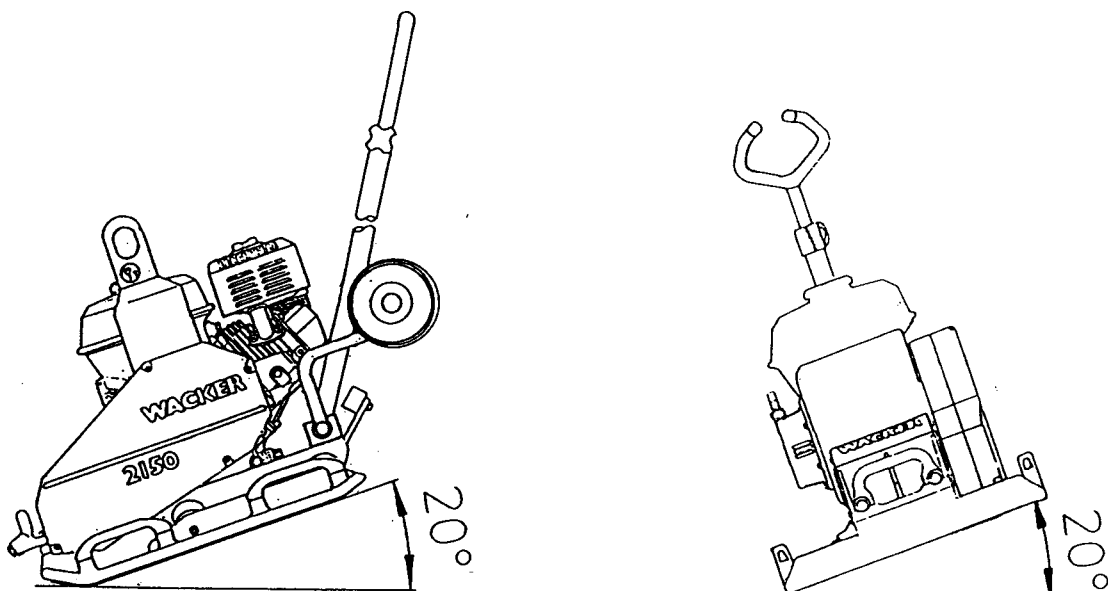


**CONSTRUCTION
EQUIPMENT**

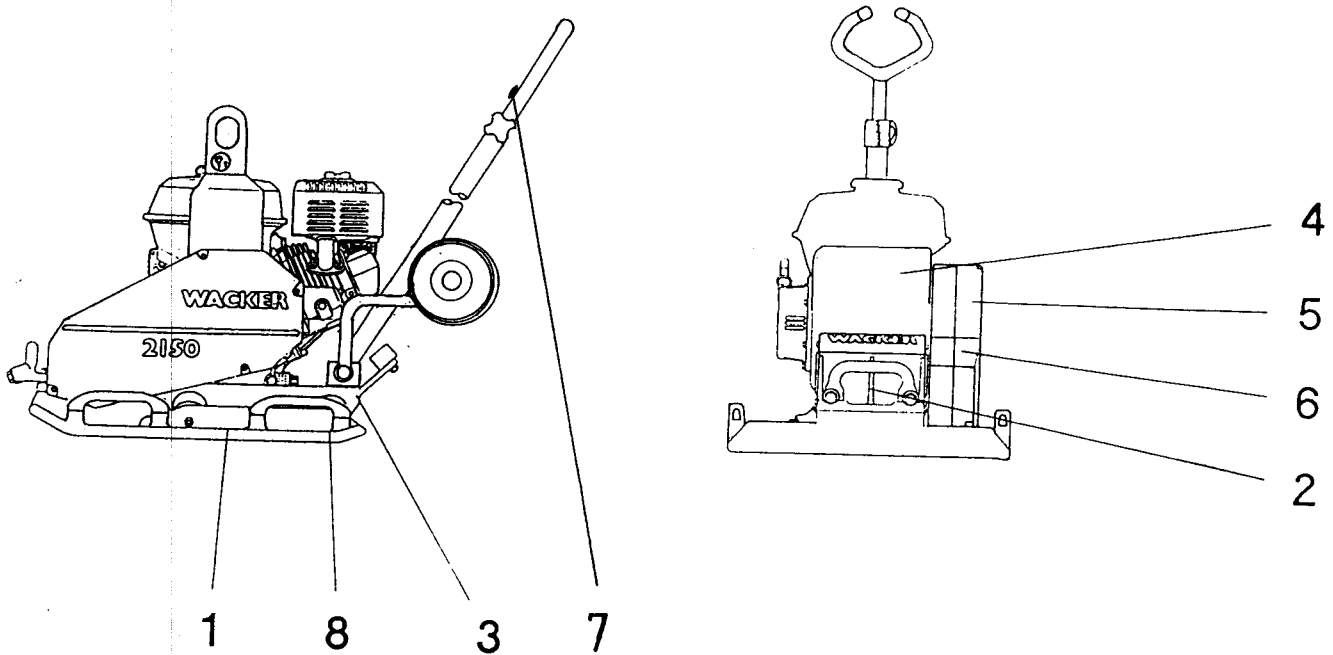
Fields of applications

Owing to the infinitely variable centrifugal force and advance speed of these machines it is possible to adapt optimally to the material to be compacted. They may therefore be used for the compaction of most types of soil, including semicohesive soils, in trenches as well as in surface compaction, plus compaction of bituminous mix and vibrating of interlocking paving blocks.

In addition, the foldable handle and the extremely low centre of gravity make turning on the spot easy.

Dimensions**Maximum admissible inclination**

Description of function



The exciter (2), which is integrated to the lower mass (1), produces the vibrations required and centrifugal force for the compaction process. This exciter is of the single directional type and has been designed to create circular vibrations.

The engine (4) drives the exciter (2) and is fixed to the motor console (3). The engine torque is transmitted via the centrifugal clutch (5) and the exciter V-belt (6).

The centrifugal clutch (5) interrupts the power flow to the exciter (2) when the engine is turning at low rpm's, thereby allowing a flawless idling of the drive engine (4). The drive engine rpm's can be varied infinitely by means of the throttle control lever (7).

The engine console (3) and the lower mass (1) have be connected to each other by means of 4 vibration absorbing shock mounts (8). The damping effect reduces the transmission of the very high frequencies to the engine console (3). With that, and despite the high compaction efficiency, the functionality of the drive engine (4) is maintained.

Drive is an air cooled unleaded/gasoline engine with recoil starter and dry air filter.

TRANSPORT TO WORK SITE RECOMMENDATIONS ON COMPACTION

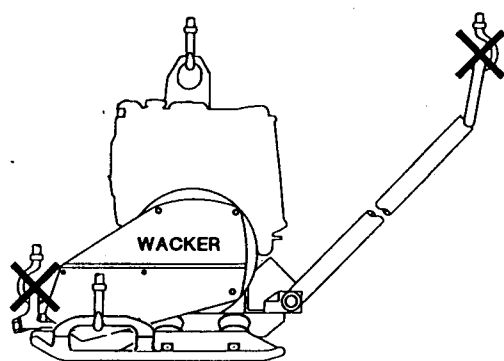
Transport to work site

Prerequisites:

- Only use suitable lifting gear with a minimum load - bearing capacity of 200 kg to transport the vibration plate
- Always switch engine off before transport!
- Attach suitable tackle only to the central lifting point of the vibration plate.
- When transporting the vibration plate on the loading area of a transport vehicle always tie it down using the lugs.

ATTENTION! Do not hitch up the equipment by the handle!

Note: Also observe the regulations in the chapter "Safety instructions".



Recommendations on compaction

Ground conditions

The max. compaction depth depends on several factors relating to the ground condition, such as moisture grain distribution etc., it is therefore not possible to specify exact values.

Recommendation: In each case determine the max. compaction depth with compaction tests and soil samples.

Compaction on slopes

The following points are to be observed when compacting on sloped surfaces (slopes, embankments):

- * Only approach gradients from the bottom (a gradient which can be easily overcome upwards, can also be compacted downwards without any risk).
- * The operator must never stand in the direction of descent (see chapter "Safety instructions").
- * The max. gradient of 20° must not be exceeded.

ATTENTION! Exceeding the gradient of 20° may lead to severe damage of the engine due to the lack of engine lubrication.

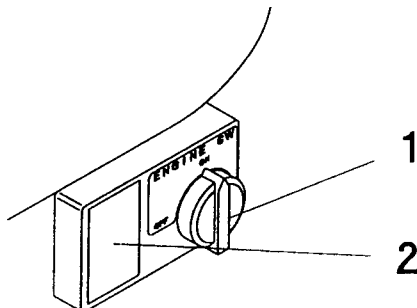
Handling

As the engine warms up, gradually move the choke lever to the OPEN position. Position the throttle lever for the desired engine speed.

Oil alert system

The oil alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase drops below a safe limit, the oil alert system will automatically shut down the engine (the engine switch will remain in the ON position).

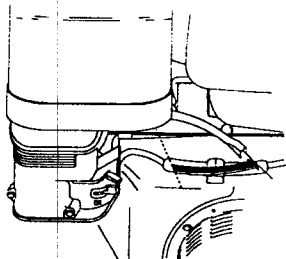
- 1 Engine switch
- 2 Note: If engine does not start check oil level



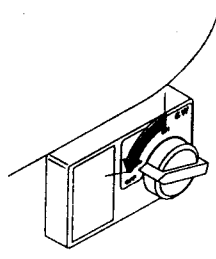
Stopping the engine

To stop the engine in an emergency, turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

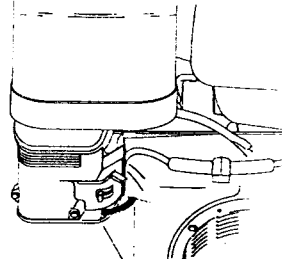
- a) Move the throttle lever fully to the right.
- b) Turn the engine switch to the OFF position.
- c) Turn the fuel valve to the OFF position.



a)



b)



c)

Short - term operation interruption

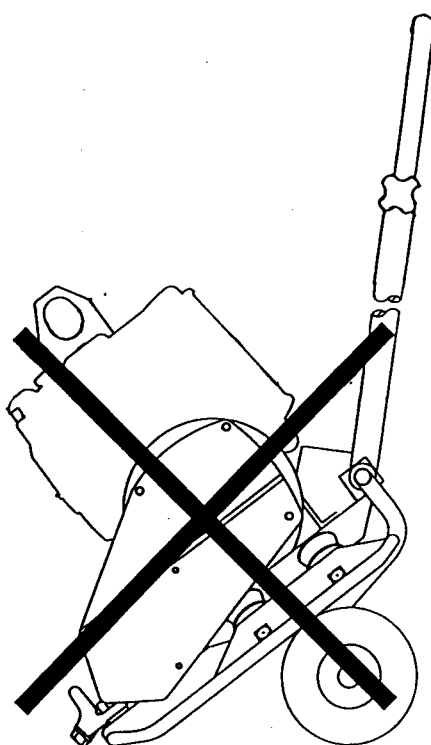
Stop engine

End of compaction operation

Stop engine. Close fuel cock.

Safety advice for the use of the transport unit

For safety reasons the wheels should always be engaged and locked in the upper position during transport of the vibration plate on the loading area of a vehicle or during work stops. This rule is also applicable during storage of the equipment.



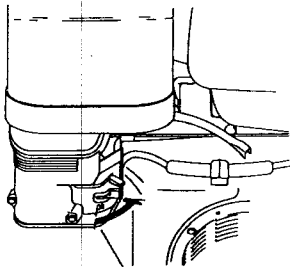
Start

1. **Oil level check**
Top up to edge of oil filler opening with brand oil SAE 15 W 40 if necessary, when introducing the dip stick (without screwing in), no oil is visible on the stick.
2. **Air filter**
Check cleanliness and good conditions of air filter elements. If necessary, clean or replace elements.
3. **Fuel**
Any type of normal petrol (preferably lead-free) with an octane rating (ROZ) of at least 86 or more may be used. Never use oil petrol mixtures or dirty petrol. Avoid entry of dirt, dust or water into the fuel tank.

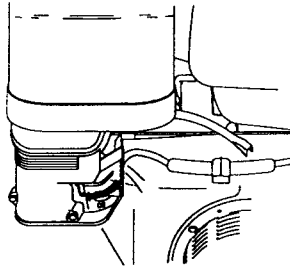
☛ **ATTENTION!** Avoid possible damage to components of the fuel system: do not use petrol substitutes.

Starting the engine

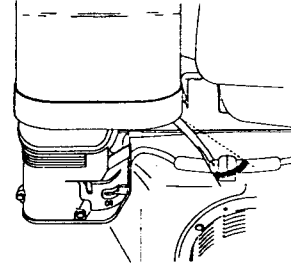
- a) Turn the fuel valve to the ON position.
- b) Move the choke lever to the CLOSE position. Note: If the engine is warm or the air temperature is high, move the control lever away from the CHOKE position as soon as the engine starts.
- c) Move the throttle lever slightly to the left



a)



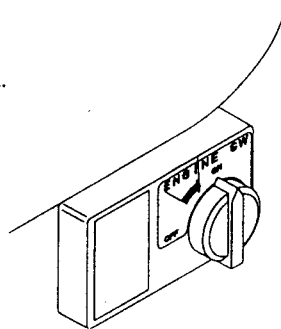
b)



c)

☛ **With recoil starter:**

- d) Turn the engine switch to the ON position.



- e) Pull the starter grip lightly until resistance is felt, then pull briskly.

Caution: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

