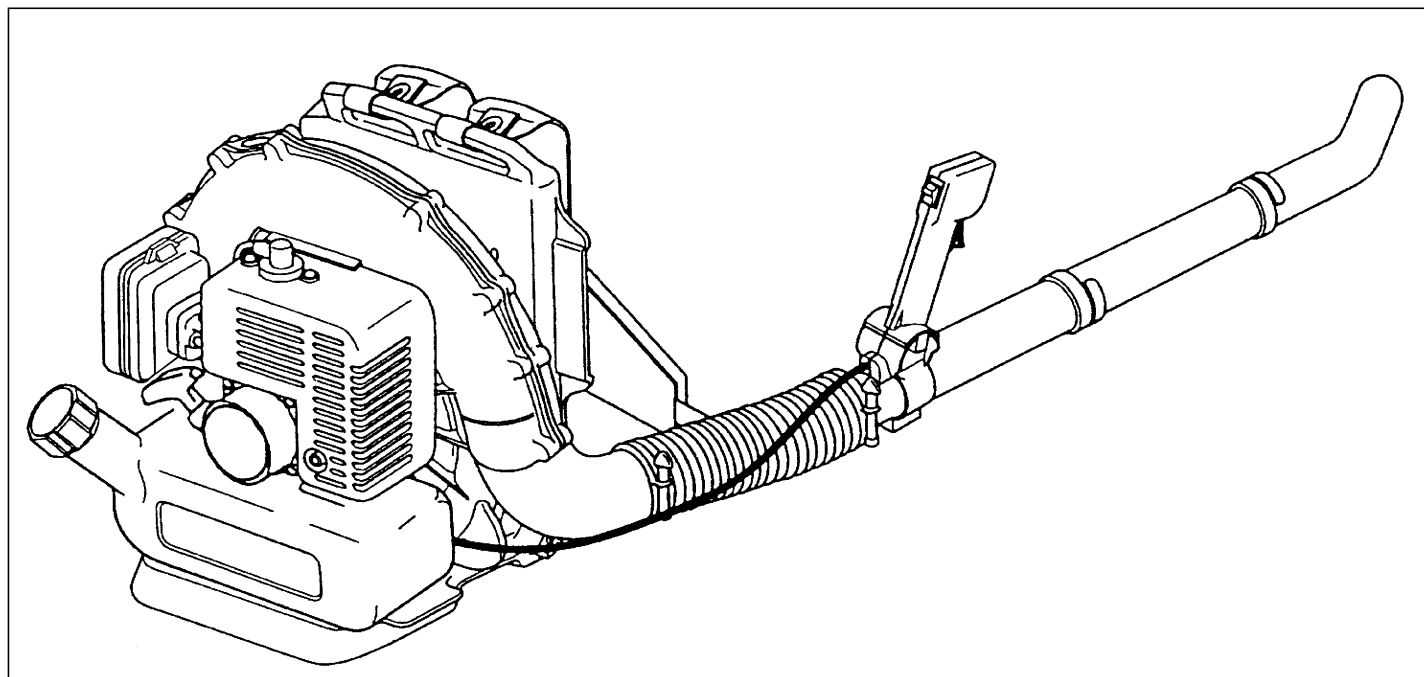


JOHN DEERE



BP60

UT-08129



Operator's manual



Read through the Operator's manual carefully and understand the content before using the machine.



WARNING:



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SYMBOL EXPLANATION

Symbols



WARNING!

Careless or incorrect use of the blower can result in serious damage or fatal injury to the operator or others.



Read through the Operator's Manual carefully and understand the content before using the machine.



Always use

- A protective helmet where there is a risk of falling objects
- Ear protection
- Approved eye protection



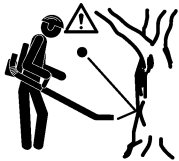
- This product is in accordance with applicable CE directives.



- Always wear approved protective gloves.



- Use anti-slip and stable boots.

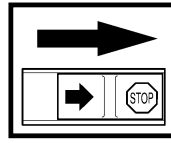


- WARNING! The blower may throw objects at high velocity that can ricochet and hit the operator. This may cause serious eye damage.

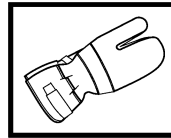


- The blower operator must make sure that no bystanders or animals come nearer than 10 metres. Whenever several operators are working in the same work area, they should maintain a safe distance of at least 10 metres from one another.

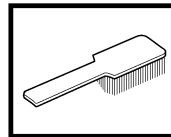
Other symbols/decals on the machine refer to special certification requirements for certain markets.



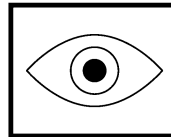
Checks and/or maintenance should be carried out with the engine switched off, with the stop switch in the STOP position.



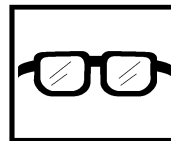
Always wear approved protective gloves.



Regular cleaning required.



Visual inspection.



Approved eye protection must always be used.

CONTENTS



WARNING!

Under no circumstances should you modify the original design of the blower without approval from the manufacturer. Always use genuine spare parts. Unauthorised modifications or accessories may lead to serious injury or death.

EMISSION CONTROL INFORMATION

Fuel Information
THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED REGULAR GRADE GASOLINE ONLY.

A minimum of 87 octane of the antiknock index is recommended. The antiknock index is posted on service station pumps in the U. S. A..

Emission Control Information

To protect the environment KAWASAKI has incorporated exhaust emission control system (EM) in compliance with applicable regulations of the California Air Resources Board.

1. Exhaust Emission Control System

The exhaust emission control system applied to this engine consists of a carburetor and an ignition system having optimum ignition timing characteristics.

The carburetors have been calibrated to provide lean air/fuel mixture characteristics and optimum fuel economy with a suitable air cleaner and exhaust system.

Maintenance and Warranty

Proper maintenance is necessary to ensure that your engine will continue to have low emission levels. This Owner's Manual contains those maintenance recommendations for your engine. those items identified by the Periodic Maintenance Chart are necessary to ensure compliance with the applicable standards.

The KAWASAKI Limited Emission Control System Warranty requires that you return your engine to an authorized KAWASAKI engine Dealer for remedy under warranty. Please read the warranty carefully, and keep it valid by complying with the owner's obligations it contains.

Tampering with Emission control System Prohibited

Federal law and California State law prohibits the following acts or the causing thereof:
(1) the removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new engine for the purposes of emission control prior to its sale or delivery to the ultimate purchaser or while it is in use, or (2) the use of the engine after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

Do not tamper with the original emission related parts:

- Carburetor and internal parts
- Spark Plug
- Magneto or electronic ignition system
- Fuel Filter
- Air cleaner element

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SAFETY INSTRUCTIONS

Personal protective equipment

IMPORTANT INFORMATION

- A blower used incorrectly or carelessly can become a dangerous tool, which can cause serious damage or fatal injury to the operator or others. It is very important that you read and understand the content in this manual.
- When using a blower, personal protective equipment approved by the appropriate authorities must be used. Personal protective equipment does not eliminate the risk of accidents, but it reduces the effects of an injury in the event of an accident. Ask your dealer for help when choosing protective equipment.



WARNING!
Remove your hearing protection as soon as you stop the engine, so that you can hear any noises or warning signals.

EAR PROTECTION

Ear protection offering sufficient dampening effect should be used.

EYE PROTECTION

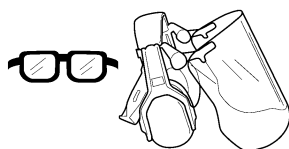
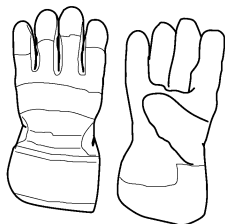
Blows from branches, or whirling objects can lead to eye injuries.

BOOTS

Use anti-slip and stable boots.

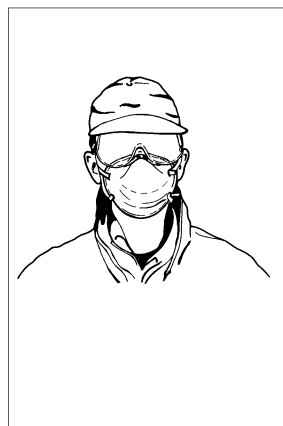
CLOTHING

Wear clothes made of a strong fabric and avoid loose clothing that can catch on shrubs and branches. Always wear heavy, long pants. Do not wear jewelry, short pants, sandals or go barefoot. Secure hair so it is above shoulder level.



BREATHING PROTECTION

Breathing protection should be worn if there is a risk of dust.



The machine's safety equipment

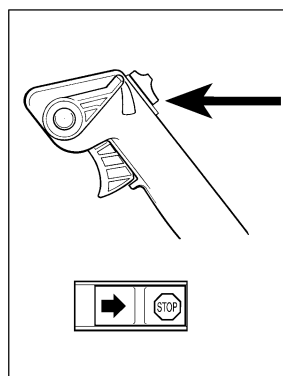
This section describes the machine's safety equipment, its function and how checks and maintenance are carried out to ensure that it operates correctly. (See the chapter "What is what" to locate where this equipment is positioned on your machine.)



WARNING!
Never use a machine with defective safety equipment. Follow the inspection, maintenance and service instructions described in this section.

1. Stop switch

The stop switch should be used to stop the engine.

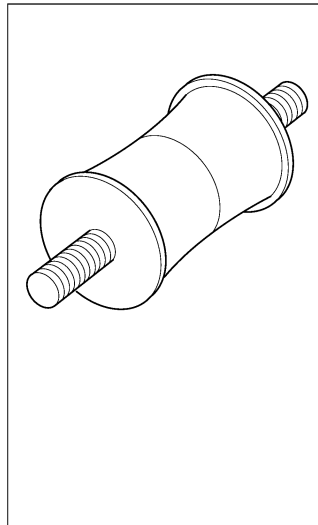


SAFETY INSTRUCTIONS

2. Vibration damping system

Your machine is equipped with a vibration damping system, which is designed to give as vibration-free and comfortable use as possible.

The machine's vibration damping system reduces the transfer of vibrations.



WARNING!

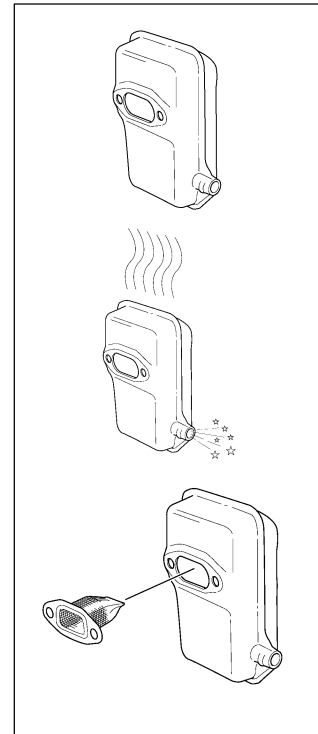
Over exposure to vibrations can result in blood-vessel or nerve injury to persons suffering with blood circulation problems. Seek medical attention if you experience physical symptoms that can be related to over exposure to vibrations. Examples of such symptoms are "numbness", lack of feeling, "tickling", "pricking", "pain" lack of or a reduction in normal strength, changes in the colour of the skin or its surfaces. These symptoms normally appear in the fingers, hands or wrists.

3. Muffler

The muffler is designed to give the lowest possible noise level and to direct the engine's exhaust fumes away from the operator. Muffler fitted with catalytic converter is also designed to reduce harmful exhaust components.

In countries that have a warm and dry climate the risk of fire is obvious. We have therefore fitted certain mufflers with a spark arrest screen. Make sure that your muffler is fitted with this kind of screen.

It is extremely important that the instructions for checking, maintaining and servicing the muffler are followed. (see the section "*Control, maintenance and service of the machine's safety equipment*").



WARNING!

Mufflers fitted with catalytic converters become extremely hot during use and after stopping. This also applies at idling speeds. Contact can result in burns to the skin. Be observant to the risk of fire!



WARNING!

Bear in mind that exhaust fumes:

- contain carbon monoxide, which can cause carbon monoxide poisoning. Therefore never start or run the machine indoors.
- are hot and can contain sparks that can cause fires. Never start the machine indoors or close to inflammable material.

SAFETY INSTRUCTIONS

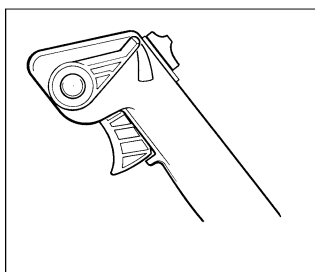
Inspection, maintenance and service of the machine's safety equipment

IMPORTANT INFORMATION

- All service and repairs to the machine require special training.
- This applies especially to the machine's safety equipment. If the machine does not pass any of the inspections listed below you should contact your service workshop.
- The purchase of one of our products guarantees that professional repair and servicing will be carried out on it. If the point of purchase is not one of our servicing dealers, please ask for details of the closest service workshop.

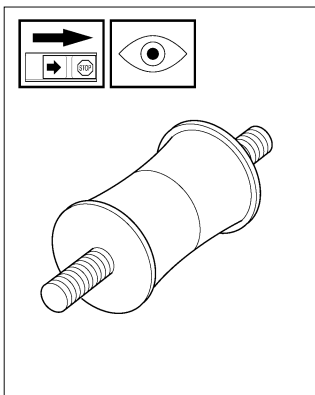
1. Stop switch

- Start the engine and make sure that the engine stops when the stop switch is moved to the stop position.



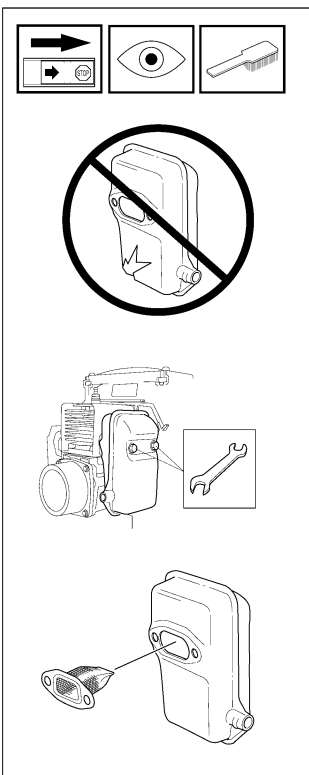
2. Vibration damping system

- Check the vibration damping element regularly for material cracks and distortion.
- Check that the vibration damping element is undamaged and securely attached.



3. Muffler

1. Never use a machine that has a defective muffler.
2. Check regularly that the muffler is secure.
3. If your muffler is fitted with a spark arrestor screen then it should be cleaned regularly. A blocked screen leads to the engine overheating with serious damage as a result. Never use a muffler with a defective spark arrestor screen.



WARNING! **pass**
Never use a machine with defective safety equipment. The safety equipment should be maintained as described in this section. If your machine does not meet any of these inspections you should contact your service workshop.

SAFETY INSTRUCTIONS

General safety instructions

IMPORTANT INFORMATION

- **Never use the machine if you are tired, if you have consumed alcohol, or if you are taking medicines that can affect your sight, your judgement or the control of your body.**
- **Use personal protective equipment. See the section “Personal protective equipment”.**
- **Never use a machine that has been modified so that it no longer corresponds with the original design.**
- **Never use a machine that is faulty. Follow the maintenance, inspection and service instructions in this Operator’s Manual. Some maintenance and service actions should be carried out by trained and qualified specialists. See the chapter “Maintenance”.**
- **All covers and guards must be fitted before starting the machine. Check that the spark plug cap and HT lead are not damaged, otherwise you could get an electric shock.**
- **The machine operator shall ensure, while working, that no persons or animals come closer than 15 metres (50 feet). When several operators are working in the same area the safety distance should be at least double tree length, however, at least 15 metres (50 feet).**

Start

- Never start the machine indoors. Bear in mind the dangers of inhaling the engine’s exhaust fumes.

Observe your surroundings and make sure that there is no risk of people or animals coming into contact with the blown air.

- Place the machine on the ground. Push the machine body towards the ground using your left hand. (NOTE! Not with your foot). Grip the starter handle with your right hand and pull the startercord.

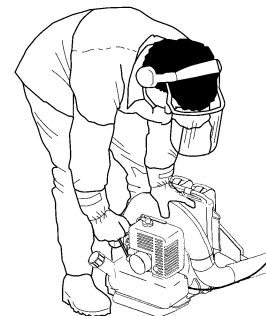
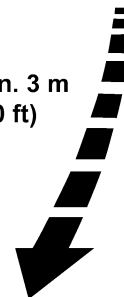


Fuel safety

- Always use a fuel container with an anti-spill valve.
- Never fill the machine while the engine is running. Always stop the engine and let it cool for a few minutes before refuelling.
- Provide good ventilation when filling or mixing fuel (petrol and 2-stroke oil).
- Move the machine at least 3 m from the filling position before starting.
- Never start the machine:
 - a) If you have spilt fuel on it. Wipe up all spillage.
 - b) If you have spilt fuel on yourself or your clothes. Change your clothes.
 - c) If there is a fuel leak. Make regular checks for leakage from the fuel cap and the fuel supply tubing.



Min. 3 m
(10 ft)



Transport and storage

- Store and transport the machine and fuel so that any leakage or fumes do not risk coming into contact with sparks or naked flames. For example, electric machines, electric motors, electrical switches/power switches, heaters or the like.
- When storing and transporting fuel approved, containers intended for this purpose must be used.
- When storing the machine for long periods, the fuel tank must be emptied. Contact your local petrol station to find out how to dispose of excess fuel.



WARNING!

Exercise great care when handling fuel. Bear in mind the risk of fire, explosions and inhaling fumes.

SAFETY INSTRUCTIONS

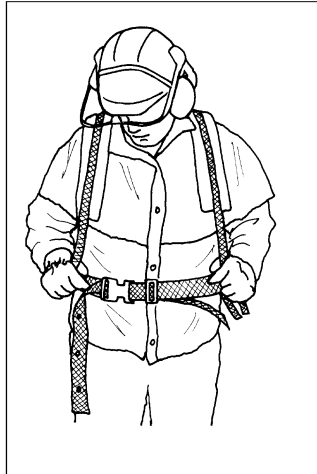


WARNING!

Always use the harness when working with the machine, otherwise it will not be possible to operate it safely and this can result in injury to yourself or others. Never use a harness with a faulty quick release.

Equal load on shoulders

A well-adjusted machine and harness simplify working considerably. Adjust the harness to give the best working stance. Adjust the side straps so that the weight is equally divided across the shoulders.



General working instructions

IMPORTANT INFORMATION

- This section considers basic safety rules when working with blowers.
- If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop.
- Avoid all usage which you consider to be beyond your capability.

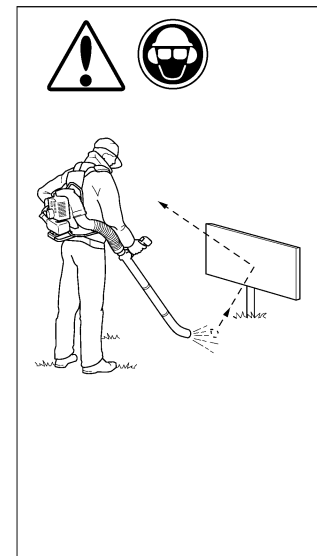
Basic safety precautions

Show consideration to persons in your surroundings by avoiding using the machine at unsuitable times, such as late in the evening or early in the morning.

Read through and follow the simple directions so that you disturb your surroundings as little as possible.

- Use the blower with the lowest possible throttle. It is seldom necessary to use full throttle, and many work procedures can be done at half throttle. A lower throttle means less noise and less dust, and it is also easier to keep control over the rubbish collected together/moved.
- Use a rake or a brush to release rubbish stuck to the ground.
- Hold the opening of the blower as close to the ground as possible.
- Observe your surroundings. If anyone approaches your work area, set the throttle control to the lowest throttle until the person is at a safe distance. Direct the blower away from people, animals, play areas, and cars etc.
- Clean up afterwards. Make sure that you have not blown rubbish into someone's garden.

1. Do not allow bystanders or animals to be in the work area, i.e. 10 metres from the operator.
2. The powerful air flow can move objects at such speed that they can rebound and cause serious eye injuries.
3. Never point the blower nozzle toward people or animals.
4. Stop the engine before fitting or dismantling accessories or other components.



SAFETY INSTRUCTIONS

5. Never operate the blower in poorly ventilated spaces where exhaust fumes might otherwise be inhaled.
6. Do not operate the blower while standing on a ladder or a stand.
7. Avoid usage in unfavourable weather conditions. For example, thick fog, heavy rain, strong winds or extreme cold, etc. To work in bad weather conditions is tiring and can create dangerous circumstances, e.g. slippery surfaces.
8. Make sure you can walk and stand safely. Look out for any obstacles with unexpected movement (roots, stones, branches, pits, ditches, etc.). Take great care when working on sloping ground.
9. Never put the machine down with the engine running unless you have good sight of it.



Basic working techniques

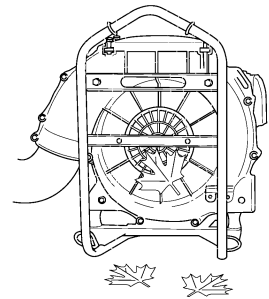
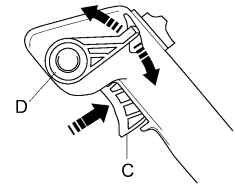
- Adjust the harness so that the machine is easy to carry.



WARNING!

Always stop the engine when cleaning.

- The speed of the air jet is controlled with the throttle. Select the speed that best suits the application. To avoid holding your finger on the throttle all the time when using the blower, the required throttle can be set with the throttle adjuster (D). Full throttle is obtained when the throttle adjuster is pushed in fully.
- Make sure that the air intake is not blocked by leaves or rubbish. This will reduce the machine's air blowing capacity and increase the engine's working temperature, which can lead to engine failure. Stop the engine and remove the object.
- Observe the direction of the wind. Work in the direction of the wind to simplify your work.
- Using the blower to move large heaps is time consuming and creates unnecessary

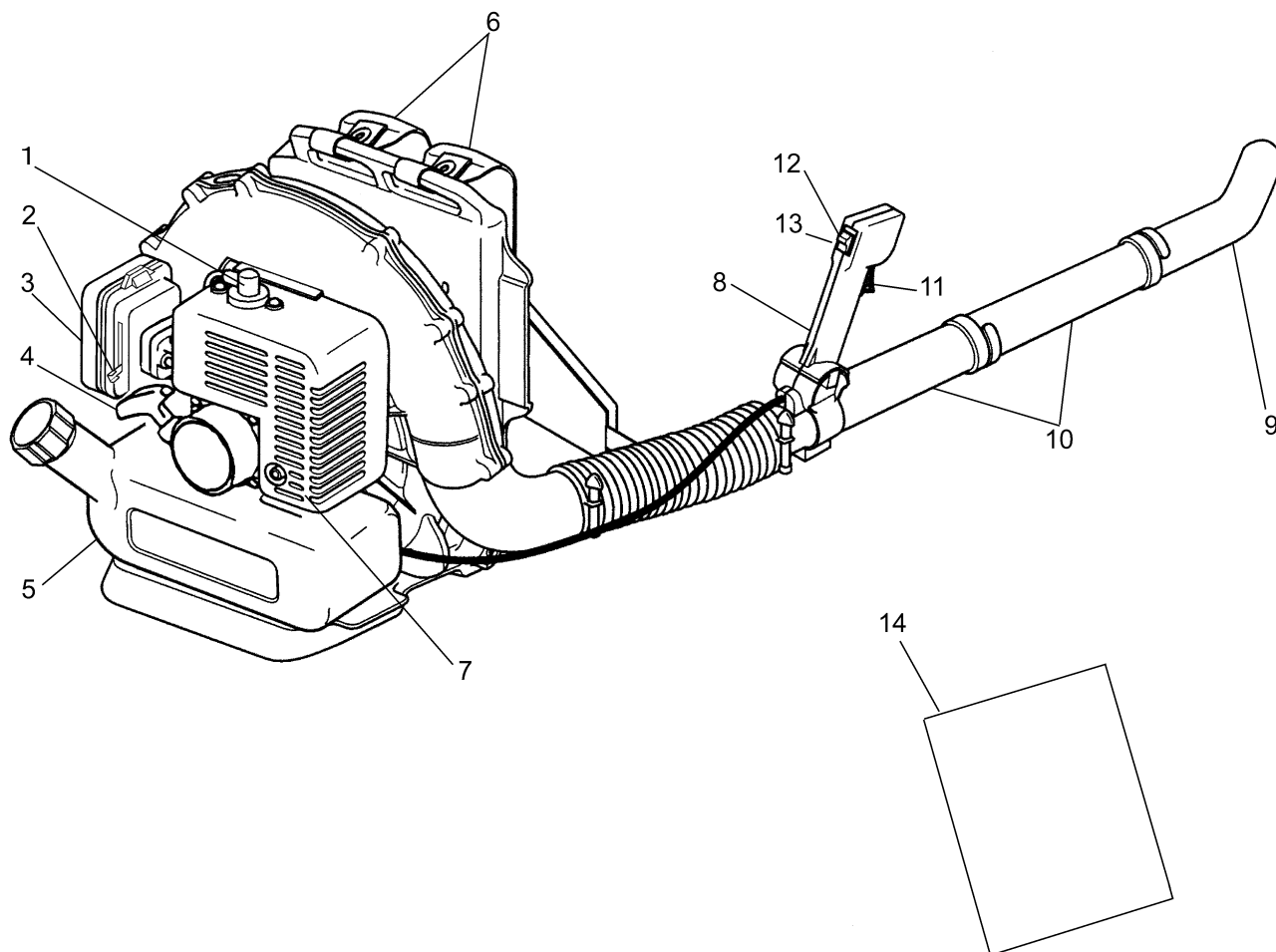


WARNING!

Warning for thrown objects. Always wear protective glasses. Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury.

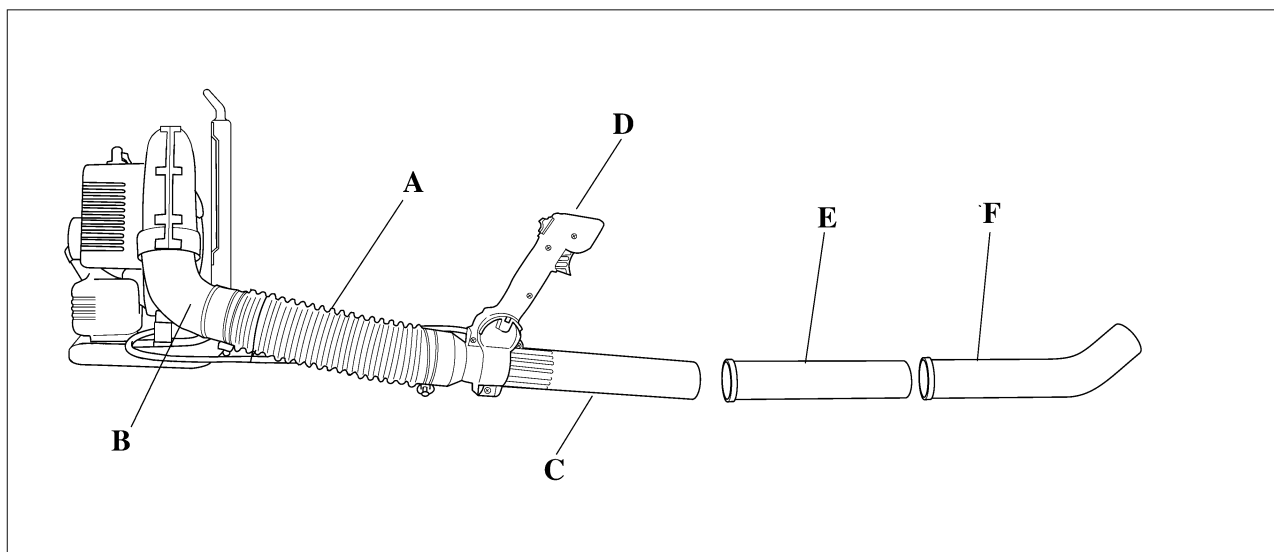
Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m (50 feet). Stop the machine immediately if anyone approaches.

WHAT IS WHAT?



What is what on the blower?

1. Spark plug
2. Choke
3. Air filter
4. Starter handle
5. Fuel tank
6. Harness
7. Muffler
8. Handle
9. Nozzle
10. Blow tube
11. Throttle control
12. Stop switch
13. Throttle adjuster
14. Operator's Manual



Assembly of the blower

1. Connect the flexible hose (A) to the fan's outlet tube (B) with a hose clamp.
2. Connect the operating tube (C) to the flexible hose with a hose clamp.
3. Fit the control handle (D) on the operating tube (C).
4. Connect the intermediate tube (E) and air nozzle (F). Push the tubes together and turn them so that they lock together.

NOTE!

The operating tube can be turned round its axis to direct the air jet.

FUEL HANDLING

Fueling

This product is powered by a 2-cycle engine and requires pre-mixing gasoline/petrol and 2-cycle oil. Pre-mix unleaded gasoline/petrol and 2-cycle engine oil in a clean container approved for gasoline and mix thoroughly.

RECOMMENDED FUEL: THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE/PETROL INTENDED FOR AUTOMOTIVE USE WITH AN OCTANE RATING OF 87 ([R + M] / 2) OR HIGHER.

The engine used on this model requires the use of John Deere Premium 2-cycle Engine Oil. The engine was designed to reach its optimal performance output, maximum endurance and minimum preventive maintenance by using this oil.

If the John Deere Premium 2-cycle Oil is not available at your dealership, use any brand of premium 2-cycle engine oil classified as grade ISO-L-EGD or JASO-FC.

Using any other oil will shorten the engine life and increase the required maintenance. The warranty might also be voided by using a lower quality oil.

Mix **JOHN DEERE** Premium 2-Cycle Engine Oil with gasoline/petrol according to the instructions on the package.

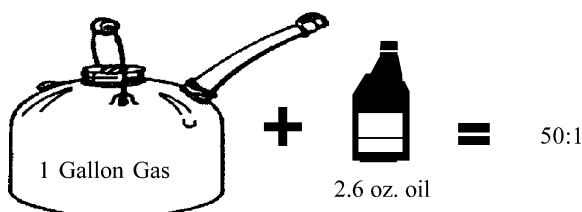
DO NOT USE AUTOMOTIVE OIL, 2-CYCLE OUTBOARD OIL OR ANY 2-CYCLE OIL OTHER THAN GRADE ISO-L-EGD OR JASO-FC.

DO NOT USE PRE-MIXED GASOLINE/PETROL FROM FUEL SERVICE STATION INTENDED FOR USE IN MOPEDS, MOTORCYCLES, ETC.

NOTE: **JOHN DEERE** fuel mix contains a fuel stabilizer and will stay fresh up to 30 days. DO NOT mix quantities larger than usable in a 30 day period.

Fuel Mixture (50:1 Ratio)

Gasoline	Oil
1 gallon (US)	2.6 oz.
1 Liter	20cc (20 ml)
5 Liter	100cc (100ml)



Filling the Tank



WARNING

Always shut off engine before fueling. Never add fuel to a machine with a running or hot engine. Move at least 10 feet (3m) from refueling site before starting engine. DO NOT SMOKE!

Refer to the Safety-Refueling Section for additional Safety Precautions.

1. Clean surface around fuel cap to prevent contamination.
2. Loosen and remove the fuel cap slowly.
3. **Make sure fuel mixture is thoroughly mixed before pouring into the tank.**

DO NOT MIX GAS AND OIL IN FUEL TANK.

4. Carefully pour fuel mixture into the tank. Avoid spillage.
5. Prior to replacing the fuel cap, clean and inspect the gasket.
6. Immediately replace fuel cap and hand tighten. Wipe up any fuel spillage.
7. It is normal for smoke to be emitted from a new engine during and after first use.



WARNING

Check for fuel leaks, if any are found, correct before use.

Do not fuel the unit near an open flame or in an unventilated area.

Start and stop



WARNING!

Always move the machine from the filling area before starting. Place the machine on a flat surface. Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury. The safety distance is 15 meters.

Cold engine

IGNITION:

Set the stop switch to the start position.

CHOKE:

Set the choke control in the choke position.

AIR PURGE:

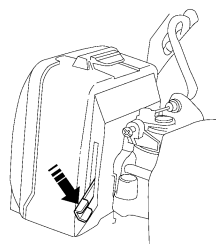
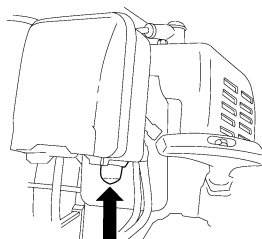
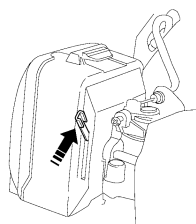
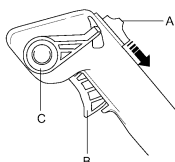
Press the air purge diaphragm repeatedly until fuel begins to flow through the overflow tube.

Warm engine

Use the same starting procedure as for the cold engine, but do not set the choke control in the choke position.

Stop

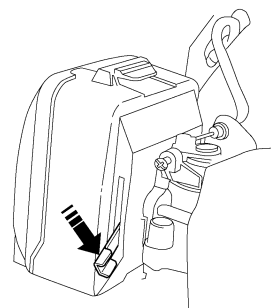
The engine is stopped by switching off the ignition.



Start

Press the machine body against the ground using your left hand (NOTE! Not your foot). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord. Reset the choke control as soon as the engine fires and repeat until the engine starts.

NOTE! Do not pull the starter cord out completely and do not release the starter cord from the fully extended position. This can damage the machine.

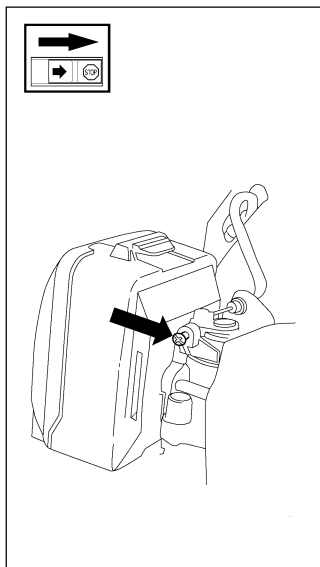


**WARNING!**

The machine must only be started as a complete unit. If the machine is started without all the covers fitted there is a risk of personal injury.

Operation

- The setting of the carburettor means that the engine is adapted to local conditions, for example, the climate, altitude, petrol and the type of 2-stroke oil.



Conditions

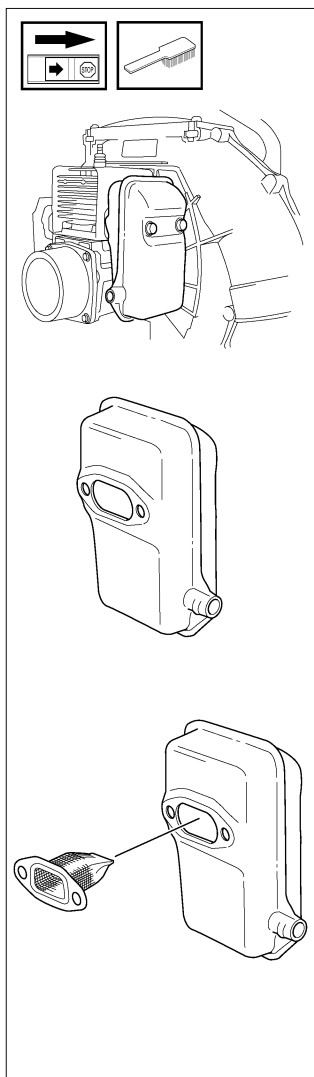
- Before any adjustments are made the airfilter should be clean and the airfilter cover fitted. Adjusting the carburettor while a dirty airfilter is in use will result in a leaner mixture when the filter is finally cleaned. This can give rise to serious engine damage.

Muffler

NOTE!

Some mufflers are fitted with a catalytic converter. See "Technical data" to see whether your machine is fitted with a catalytic converter.

The muffler is designed to dampen the noise level and to direct the exhaust fumes away from the user. The exhaust fumes are hot and can contain sparks, which can result in fire if the exhaust fumes are directed towards a dry and inflammable material. Some mufflers are equipped with a special spark arrest screen. If your machine is fitted with this type of screen it should be cleaned regularly. This is done using a wire brush. On mufflers without a catalytic converter the screen should be cleaned weekly, or replaced if necessary. On mufflers fitted with a catalytic converter the screen should be checked and cleaned monthly. **If the screen is damaged it should be replaced.** If the screen is frequently blocked, this can be a sign that the function of the catalytic converter is impaired. Contact your dealer to inspect the muffler. A blocked screen will cause the engine to overheat resulting in damage to the cylinder and piston. Also see under "Maintenance".



NOTE!

Never use a machine with a defective muffler.

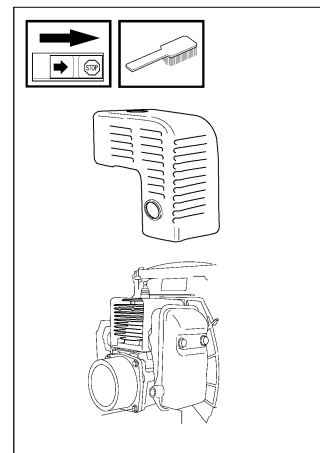
Cooling system

To maintain as low operating temperature as possible the engine is equipped with a cooling system. The cooling system consists of:

1. An air intake on the starter unit.
2. Cooling fins on the flywheel.
3. Cooling fins on the cylinder
4. Cylinder cover (leads cold air onto the cylinder).

Clean the cooling system using a brush at least once a week, in difficult conditions more often.

A dirty or blocked cooling system leads to the engine overheating resulting in damage to the cylinder and piston.



Spark plug

The condition of the spark plug is affected by:

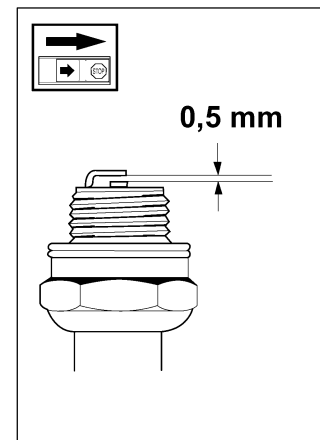
- An incorrect carburettor setting.
- An incorrect fuel mixture (too much or faulty oil).
- A dirty air filter.

These factors cause deposits on the spark plug electrode that may result in malfunction or starting difficulties.

If the machine is low on power, difficult to start or runs poorly while idling always check the spark plug first.

If the spark plug is dirty, clean it and at the same time check that the electrode gap is 0.5 mm. The spark plug should be changed after about one month of operation or earlier if necessary.

NOTE! Always use the recommended type of spark plug. An incorrect spark plug can damage the cylinder/piston.

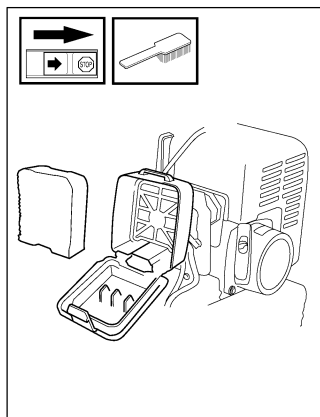


Air filter

The air filter should be cleaned regularly removing dust and dirt to avoid:

- carburettor malfunction
- starting problems
- reduced engine power
- unnecessary wear to engine parts
- abnormal fuel consumption

Clean the filter after every 25 hours or more regularly if operating conditions are exceptionally dusty.



Cleaning the air filter

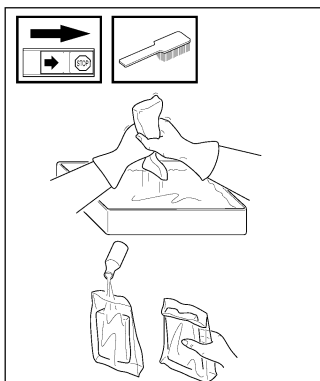
Dismantle the air filter cover and remove the air filter. Wash in clean, warm soapy water. Ensure that the filter is dry before refitting. An air filter used for a long period of time can never be cleaned completely. Therefore it is necessary to replace the filter from time to time with a new filter. A damaged air filter must always be replaced.

If the machine is used in dusty conditions the air filter should be soaked in oil, see the section on “*Oiling the air filter*”.

Oiling the air filter

The filter oil contains a solvent to make it spread evenly through the filter. You should therefore avoid skin contact. Put the filter in a plastic bag and then pour the filter oil over it.

Knead the plastic bag to distribute the oil. Squeeze the excess oil out of the filter inside the plastic bag and pour off the excess before fitting the filter on the machine. Never use common engine oil. This would drain through the filter quite quickly and collect in the bottom.

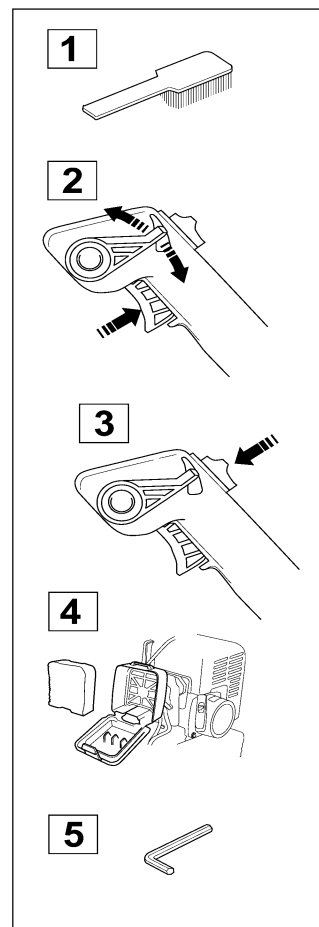


Maintenance schedule

Below follows some general maintenance instructions. If you need further information please contact your service workshop.

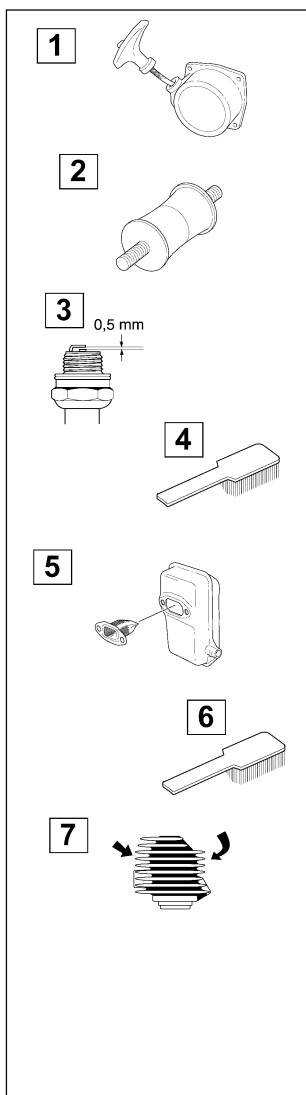
Daily maintenance

1. Clean the outside of the machine.
2. Check that the throttle control functions safely.
3. Check that the stop switch functions.
4. Clean the air filter.
Replace if necessary.
5. Check that all nuts and screws are tightened.



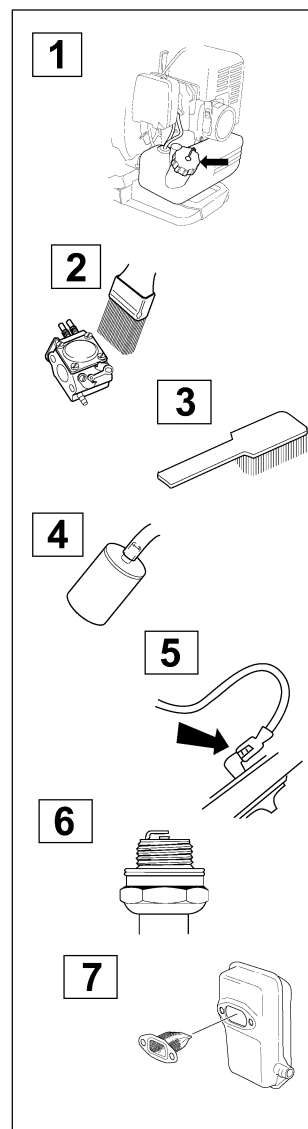
Weekly maintenance

1. Check the starter, the starter cord and the return spring.
2. Make sure that the vibration damping elements are not damaged.
3. Clean the outside of the spark plug. Remove and check the electrode gap. Adjust the gap to 0.5 mm or change the spark plug.
4. Clean the cooling fins on the flywheel.
5. Clean or replace the muffler's spark arrest screen (not on mufflers with a catalytic converter).
6. Clean the carburettor area.
7. Clean the cooling fins on the cylinder and check that the air intake in the starter unit is not blocked.



Monthly maintenance

1. Clean the fuel tank.
2. Clean the carburettor and the area surrounding it.
3. Clean the fan and the area around it.
4. Check the fuel filter and the fuel pipe, replace if necessary.
5. Check all cables and connections.
6. Change the spark plug.
7. Check and clean the muffler's spark arrest screen if necessary (only mufflers with a catalytic converter).



TECHNICAL DATA

Technical data

BP60

Engine

Cylinder capacity, cu. in/cm ³	59,2
Cylinder bore, inch/mm	47,1
Stroke length, inch/mm	34
Idling speed, rpm	2 500
Recommended max. speed, rpm	7 000
Max. engine output, acc. to ISO 8893	2,4 kW/7 500r/min
Catalytic converter muffler	No

Ignition system

Manufacturer/type of ignition system	ET
Spark plug	NGK BPMR7A
Electrode gap, inch/mm	0,6mm

Fuel lubrication system

Manufacturer/type of carburettor	Walbro, rotary/diaphragm
Fuel tank capacity, US pint/litres	2,2 l

Weight

Weight without fuel, cutting tool and guard, Lbs/kg	9,9
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Noise levels

Equivalent noise pressure level at the user's ear, measured according to EN 31806 and ISO 7917, dB(A), min/max:	97
Equivalent noise power level at the user's ear, measured according to EN 31806 and ISO 10884, dB(A), min/max:	104,6

Vibration levels

Vibration levels on the handles, measured according to EN 31806 and ISO 7916, m/s ²	
When idling, handles, max:	1,2
At max. speed, handles, max:	1,2



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