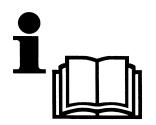
HEDENSTED GRUPPEN A/S



USERS MANUAL Read this users manual carefully before using the machine.



HGFEEDE R

-400 gasoline -500 gasoline -500 diesel



CE

DK

Vejlevej 15, DK-8722 Hedensted Tlf. 0045 75891244 Fax 0045 75891180

Feeder 400 / 500

This manual covers the models Feeder 400 gasoline, Feeder 500 gasoline and diesel.

1.	Precautions	Page 3
2.	Operation controls	6
3.	Precautions before starting	14
4.	Driving/Feeding	19
5.	Maintenance	23
6.	Trouble shooting	30
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1. Precautions Instruction in safe use of the feeding machine





Only charge the battery on a ventilated place. Keep away all sources of fire setting.

DANGER! Sudden start can cause serious damage and death.

By servicing the machine or by parking, the engine has to be switch off and the ignition key removed.



NOISE! Long stay in noise damages the hearing.

Always use hearing shelter..

1.1. Education

- Read the instructions carefully. You ought to have knowledge to operation grips and correct use of the equipment.
- Don't let children or persons, who have no knowledge of the instructions use the feeding machine. The law can state an age limit for persons, who can use the feeding machine.
- Remember that the driver is responsible for accidents or situations of danger that can happen towards human beings or their property.
- The driver must be instructed carefully in using the feeding machine. These instructions should put emphasis on following:

-The need of being carefully and concentrated by operating automotive machines.

-Have a comprehensive view of what happens in front and behind the vehicle, especially during feeding, where other people can appear.

The most important causes to accidents are:

- 1. To fast driving, especially with a filled up feed tank.
- 2. Swinging in high speed, especially with feed in the tank.
- 3. Lack of comprehensive view.
- 4. The driver's knowledge of the vehicle is insufficient.
- 5. The ground conditions are to rear.

1.2. Preparation

- By driving make sure **not** to wear clothes, that are too loose, it can catch hold of nest boxes or doorways.
- Warning: Gasoline is extremely flammable!

-Always store the fuel in cans, which are approved to the purpose and out of reach of children and unauthorized persons.

-Only fill up fuel outdoors. Smoking by filling up is forbidden.
-Fill up fuel before starting the engine. Never take the cover of the fuel tank or fill up fuel, while the engine is running.
-If you waste fuel don't try to start the engine, instead move the machine from the spot, where the fuel were wasted in order to avoid ignition of the fuel.. If you waste fuel on the exhaust or on the engine, wait until

it is evaporated, or else a fire could arise.

-If you get gasoline, diesel or engine oil on your skin, wash your skin thoroughly with soap.

-Inhaling of gasoline, steam or oil mist are damaging to your health.

-Consuming fuel or oil is highly dangerous.

1.3. Operation

- Do not let the engine run in small closed rooms, where dangerous carbon monoxide can mount up.
- WARNING: Inhaling carbon monoxide can cause poisoning and possible death.
- Do not use the machine in places with inflammable dust or explosive gases or where the exhaust can get in touch with flammable material.
- If it is possible only use the feeding machine in daylight or a good artificial lightning.
- When you start the engine your feet must not rest on the pedal, they have to be placed on the running board.
- Do not drive on slopes that surpass 15 degrees.
- Be aware that the driving quality of the machine is changed considerable from empty to a full tank, because a filled up tank moves up the center of gravity high.
- With a full tank pay attention to the fact **that the machine can tip over**, if you drive too fast in curves, or on slopes with more than 15 degrees tilt.
- Pleasant driving you achieve by operating the driving pedal with soft movements with the food. Remember that the driving speed increases proportional with the movement of the driving pedal. This is valid both forward and backward.
- When you leave the machine, the ignition key has to be removed from the dashboard.



1.4. Maintenance

• By visual control following have to be checked after every fill up:

-That there are no leaks in the hydraulic system at the tubes, the tank a.s.o.

- -That there are no leaks in the fuel system at the tubes, filters, the tank a.s.o.
- -That all bolts and nuts are securely tightened.
- -Check that the silencer is dense.
- -That the admission of air under the seat and the rotating flywheel are free of wool.
- -That there is no wasted engine oil around the engine oil filling in.
- -The air pressure in the tires are checked once a week

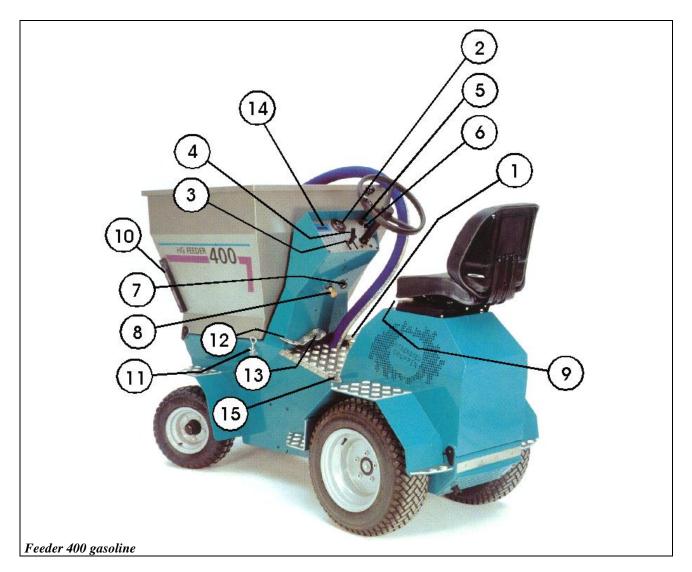
-That the driving pedal easily goes to center position in slow speed. (that the machine is standing still, when you let go of the driving pedal).

2. Operation controls

The position of the operation parts. Feeder 400 gasoline

1.	Feed pedal.
2.	Hourmeter.
3.	Speeder.
4.	Choker.
5.	Oil pressure lamp.
6.	Ignition switch.
7.	Regulation of water.
8.	Regulation of speed for feed pump.
9.	Handle for longitudinal settings.
10.	Inspection glass for water tank.
11.	Hooks for closing the feed tank.
12.	Driving pedal reverse.
13.	Driving pedal forward.
14.	Feed computer, extra equipment.
15.	Open/close handle for engine box.
16.	Preheating of diesel engine (not illustrated)
17.	Stop handle for diesel engine (not illustrated)
18.	Reverse feed pump (not illustrated)
19.	Switch for water (not illustrated)
20.	Special tools on latest models (not illustrated)
21.	Neutral position (not illustrated)
22.	Safety fuse box (not illustrated)

23. Filter manometer (not illustrated)

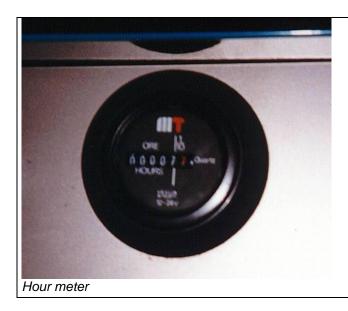


2.1. Feed pedal



The feed pedal is placed outer right on the machine. The pedal has to be activated every time there has to be pumped out feed.

2.2. Hour meter

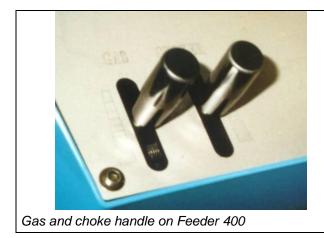


The hour meter indicates how many hours the machine has operated.

If this instrument stops working, repair it immediately, or else you cannot see, when to change oil.

Notice that this instrument counts as long as the machine is turned on, so remember to switch off the ignition and remove the key, when you leave the machine.

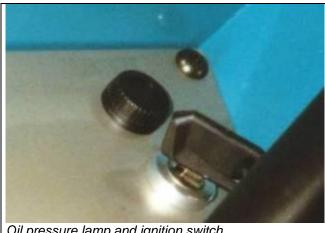
2.3. Gas handle 2.4. Choke (Feeder 400 og 500 gasoline)



The gas handle is placed outer left on the dashboard. When the handle is entirely down, there is full speed on the machine.

The choke handle is placed immediate at the right to the gas handle. At start the choke has to be pulled down to between center position and bottom. Remember that the choke has to be reset shortly after start, or the machine will use too much gasoline and soot in the engine.

2.5. Oil pressure lamp 2.6. Ignition switch



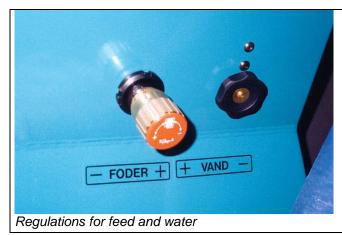
Oil pressure lamp and ignition switch

The oil pressure lamp is placed right over the ignition at the right on the dashboard. The oil pressure lamp lights, when you turn the ignition key, and maybe a second after the engine starts. If the lamp ever starts to light or blink during operating, then immediately turn off the engine and check the oil level.

The key activates the ignition switch. The machine starts when the key is turned clockwise.

2.7. Regulation of water

2.8. Regulation of speed for the feeding pump

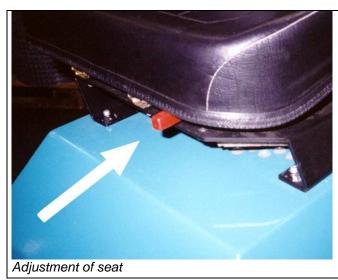


With the water regulation you can decide the amount of water, that will be mixed with the feed, when you activate the feeding pump.

Feeding pump regulator regulates orbital speed for the feeding pump, so there can get more or less feed inside a certain period.

Indication for adjustment is under the regulators.

2.9. Handle for longitudinal setting of seat



The handle is placed outer left at the seat, and has to be pushed to the right before you can adjust the seat forwards or backwards.

2.10. Inspection glass for water tank



2.11. Hooks for closing feed tank



There are hooks at each side of the feed tank.

You can adjust how tight they have to lock by turning it in the thread. It is recommended that they shall not be to loose.

2.12. Driving pedal reverse 2.13. Driving pedal forward



The driving pedal is placed outer left on the machine. The driving direction is marked with arrows on the pedals.

Notice that the pedal has to be activated gentle, since the speed of the machine is proportional with the effect on the pedal. Furthermore the driving will be more comfortable, when the pedal is used with gentle movements.

2.14. Feeding computer, (extra equipment)



The feeding computer is extra equipment.

Notice that it is possible to rebuild an existing machine with a feeding computer.

2.15. Open/Close handle for engine box



When the handle is down the engine box is solid locked. By turning the handle up the box is released, so that it can be opened.

The best way of open up the engine box is to get hold of both handle and seat back at the same time.

Notice: The engine box is heavy.

Handle for engine box

2.16. Preheating of a diesel engine (Feeder 500 diesel)



Preheating contact (Feeder 500 diesel)

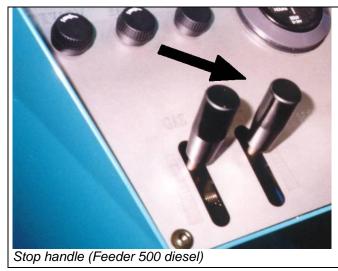
When it is frosty weather, it can be necessary to preheat the diesel engine before start.

The preheating takes place by turning the contact clockwise and keeps it there for 5-8 sec., then you can start the engine.

IMPORTANT!

The preheating must only take place max. 10 sec., an exceeding of this, can cause destruction of the components for the preheating.

2.17. Stop handle for diesel engine (Feeder 500 diesel)



In order to stop the engine this handle has to be pulled completely to the bottom.

Remember to switch off the ignition, remove the key and push the stop handle back before leaving the machine.

2.18. Reverse feeding pump



Contact for reverse of the feeding pump, shown on a Feeder 500 with preheating.

When you activate the contact, it is possible to change the orbit direction of the feeding pump.

Contact for reverse of the feeding pump

2.19. Contact for water



Contact for water, shown on a Feeder 500 diesel with preheating.

The contact makes it possible to switch off pumping water, when you activate the feeding pump pedal.

Contact for water

2.20. Special tools



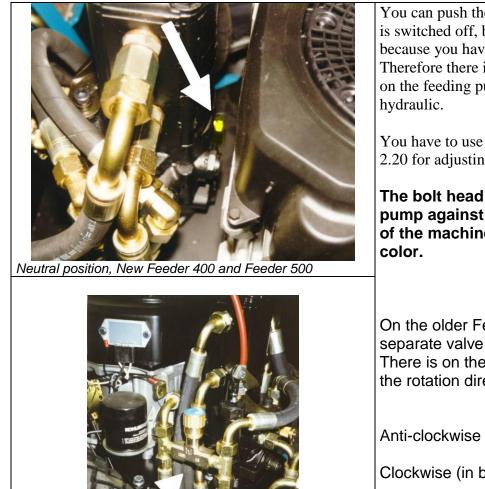
Special tool

The special tool is placed inside the left side of the machine right over the hydraulic tank.

The special tool is fixed with 2 clips, so it is easy to pull it out.

Notice that the tool only is enclosed on models manufactured from 1997and forward.

2.21. Neutral position



You can push the machine when the engine is switched off, but it is very difficult, because you have to push the hydraulic too. Therefore there is a neutral position valve on the feeding pump, which declutch the hydraulic.

You have to use the special tool from point 2.20 for adjusting the neutral position valve.

The bolt head that is placed on the pump against the engine is on most of the machines marked with a yellow color.

On the older Feeder 400 there is a separate valve for neutral position. There is on the valve an indication for the rotation direction.

Anti-clockwise = Neutral position

Clockwise (in bottom) = Operation

It is important that the neutral position valve is closed completely after use or the inappropriate leak in the hydraulic circuit will decrease the achievement of the machine.

2.22. Safety fuse box

Neutral position valve, "older" Feeder 400



The safety fuse box is placed in the right side of the machine immediate under the food plate.

IMPORTANT!

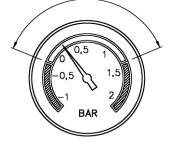
If you change a fuse, be sure that the new fuse has the same character.

Special tool

2.23. Filter manometer







Filter manometer

3. Precautions before starting

The filter manometer is placed on the right lid of the hydraulic filter on the hydraulic tank.

IMPORTANT!

At 1,4 bars over pressure both hydraulic filters have to be changed.

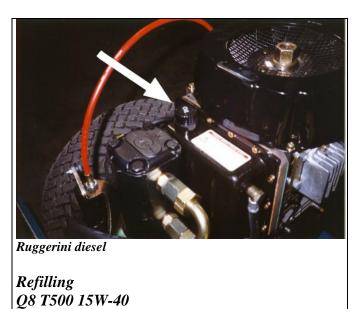
3.1. Oil level engine

The oil level in the engine ought to be checked before start, every time you use the machine. The machine has to be placed horizontal, when you check the oil. Unscrew the measuring stick, put it back, and screw it firm on. Unscrew it again and read the oil level. If the oil level is under level or close to minimum, then refill to max.

Notice that there is a special procedure for control of oil level on Ruggerini diesel engine, section 5.3.

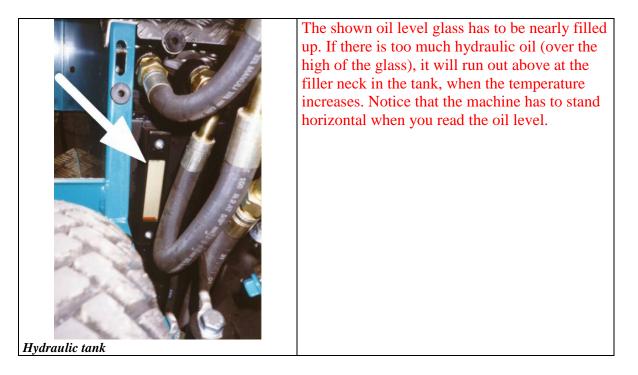


Refilling Q8 advanced 5W-40



3.2. Oil level hydraulic

You can read the level of the hydraulic oil by opening the engine box and look at the vertical left part of the hydraulic tank.



3.3. Fuel, refill

Feeder 500 diesel Ruggerini engine uses normal diesel oil.

Normally this diesel oil is frost-proofed to about -21 degrees C, but during strong frost paraffin is made in the diesel oil. To avoid this you can add petroleum after following table:

At temperaturs under	-10°C	ad	10% petroleum
At temperaturs under	-20°C	ad	25% petroleum
At temperaturs under	-30°C	ad	40% petroleum
At temperaturs under	-40°C	ad	55% petroleum

To be sure of how frost-proofed your diesel oil is, ask your diesel supplier about the specifications of your diesel oil.

Feeder 400 and 500 Kohler gasoline engines use unleaded 95-octane gasoline (recommended). Leaded 95-octane can be used, but this causes deposits in the engine, which has to be cleaned more often. **Never use oil mixed gasoline.**





Gasoline is very flammable, display great caution, and always refill in
the open.Never smoke during refill.WARNINGWARNINGThe tank must not be crammed, because gasoline can expand and ran
over.Make sure that the tank led is screwed firmly after refilling.Keep the gasoline on a cool place in a container, which is made for the
purpose.The gasoline tank and tubes has to be checked often for leaks.

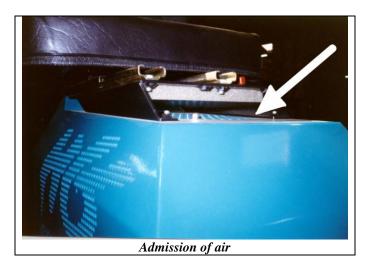
Make sure that the air filter is clean. A dirty and clogged air filter lowers the effect of the engine and increases the fuel consumption and the wear on the engine.





3.5. Admission of air / cooling air

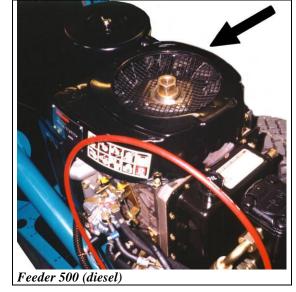
The machine has an admission of air under the seat, which has to be kept clean.



Check that the cooling bars do not clog. If needed clean it. A completely or partly clogged bar results in increased engine temperature and with that a bigger risk of engine interruption.



Feeder 400 og 500 (gasoline)



3.6. Tyre pressure

- Check that the tyre pressure is correct, an incorrect tyre pressure can make the machine unstable and the maneuver quality will be unpredictable.
- Since some of the machines are delivered with different types of tires, we ask you to find your type of tyre on the illustration below here, the tyre pressure will be indicated beside the picture.



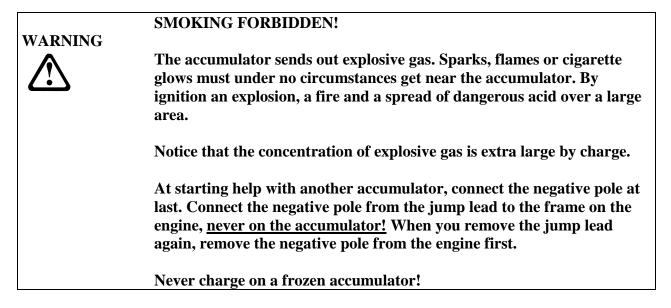




3.7. Accumulator.

• Check that the acid level is about 10 mm over the plates. If the acid level is too low then refill with distilled water.

Too high acid level can cause the acid runs over and causes etching damages on the machine.



• Notice: if you use ordinary water for refilling of acid level, then you shorten the lifetime of the accumulator.





IN CASE OF CONTACT WITH ACID!

-If the acid gets on your skin (external) you have to rinse thoroughly with water.

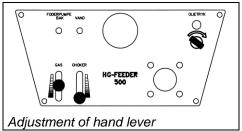
-If the acid is consumed (internal) you have to drink a huge amount of water or milk, then more milk with mixed egg or vegetable oil and call for a doctor immediately.

-If the acid gets into your eyes, then rinse thoroughly with water, min. 15 minutes, and visit a doctor as soon as possible.

4. Driving / Feeding

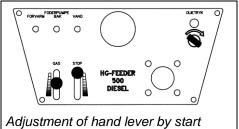
4.1. Start of engine (Feeder 400 and 500 gasoline)

Place the throttle hand lever in center position and give the choke handle full effect. Turn the ignition key for about 3 seconds, if the engine does not start, then wait min. 10 seconds and try again.

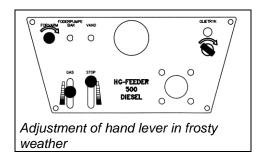


4.2. Start of engine (Feeder 500 diesel)

Normally - Place "the stop"-hand lever in top position and the "throttle"-hand lever in center position, then turn the ignition key in about 3 seconds, if the engine does not start then wait min. 10 seconds and try again.



Frosty weather - Activate "preheating" in 5-8 seconds, place the "stop"-hand lever in top position and "throttle"-hand lever in center position, then turn the ignition key in about 3 seconds, if the engine does not start, then wait min. 10 seconds and try again (without preheating!).





Preheating must maximum last 10 seconds, if exceeded this can cause damage on the preheating components. Do not repeat the preheating, if the engine does not start the first time!

4.3. Driving

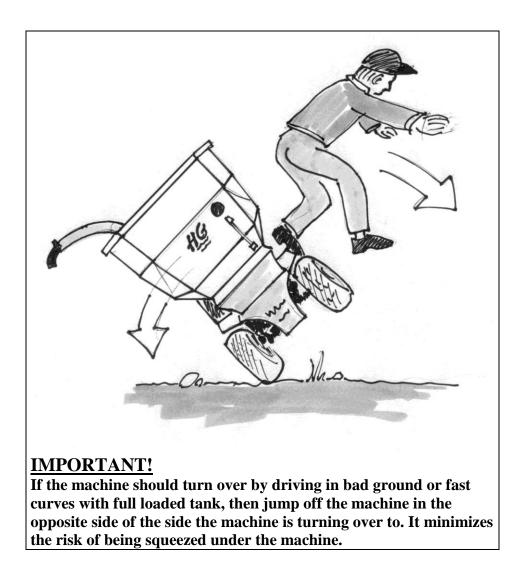
Turn off the choke (gasoline model) and speed up to the wanted amount of turns are found, place both hands on the wheel, place the feet in a wide as possible food position, then step slowly on the driving pedal (the one with arrows). The gentler you treat the driving pedal the more comfortable the driving gets. If you press the pedal hard in bottom, it corresponds with putting a strong car directly into 4.gear with full speed.



Watch your feet and legs, do not let them stick to far outside the machine, then you can bump into cages and get caught between cages or doors etc.

Pedals must never be affected standing or with the hands. Only when you are seated on the machine.

We warn against driving too fast in a curve, especially with a full loaded tank. The machine can easily fall over, because the center of gravity for the machine is very high with a full loaded tank. We also warn you against driving in ground with a slope close to 15 grades, because the machine easily can turn over.



4.4. Feeding

Before feeding the feeding pump speed and water amount have to be adjusted. Normally this has to be done once, or when the water consistency varies. See the illustrations in section 2.7. and 2.8.

The feeding pedal is placed outer at the right on the machine (see ill. section 2.1.). The feeding pedal has to be activated by every plot of feed, there has to be feeded out.

When you feed you have to be concentrated and have a comprehensive view. When you drive through the shed to feed, do not get too close to the cages, if you loose concentration you can easily diverge from your original course during the feeding, and ruin cages and boxes.

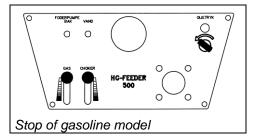
You can mount a feeding computer to ease the feeding. Here you can adjust the amount of feeding and be sure that it is right. Furthermore you spare your food joint, because you only have to keep the feeding pedal down when you are feeding, instead of tipping the pedal for every plot.



Notice that the feeding computer is extra equipment.

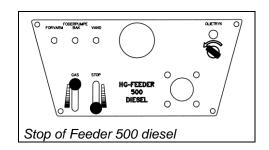
4.5. Stop of engine, Feeder 400 and 500 gasoline

Speed down to idling and let the machine run for a couple of minutes, so that the strained engine can reach normal operation temperature before switching off, it will increase the lifetime of the engine. Turn the ignition key against the watch and remove the key by parking or servicing.



4.5.1 Stop of engine, Feeder 500 diesel

Speed down to idling and let the machine run for a couple of minutes, so that the strained engine can reach normal operation temperature before switching off, it will increase the lifetime of your engine. Pull the "stop"-hand lever in bottom position, turn the ignition key against the watch and remove the key by parking or servicing.



4.6. Parking

By parking you have to notice that even a easy sloped ground can make the machine run, in danger of the machine running by itself out on a road or causes other damages.

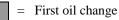
Park on a horizontal ground and remove the key.



5. Maintenance

5.1. Maintenance schedule: Feeder 400 an Feeder 500 gasoline

OPERATION	¥	OPERATIONHOURS → for every x.driven	5	100	200	500	2500	5000
~	.	hour						
Check	Hydraulic oil level and leaks							
	Gasoline tank and tubes, leaks							
	Engine oil level							
	Water pump							
	Oil lamp							
	Acid level on							
	Belt tightening	5						
	Engine rack			_				
	Ignition plug,	spark gab						
	Exhaust							
	Filter (sponge) in air filter box							
	Air filter							
	Admission of air and radiator grille							
Adjustment	Neutral position							
	Speed cable							
	Choke cable							
Greasing	Cables							
	Steering wheel							
Tighten up	Various bolts							
	Nave							
	Engine plate							
Cleaning	Air filter							
	Filter (sponge							
	Radiator grille	s and admission of air						
	Gasoline tank							
Renewing	Ignition plugs							
	Engine oil (*)							
	Hydraulic oil (*)							
	Air filter							
	Hydraulic oil filter							
	Fuel filter							
	Engine oil filter							
	Belts							
Renovation of	Partly							
the engine	Totally			1				



(*) Hydraulic- and engine oil has to be changed as quoted in the schedule, however it must be changed at least once a year.

5.2. Maintenance schedule: Feeder 500 diesel

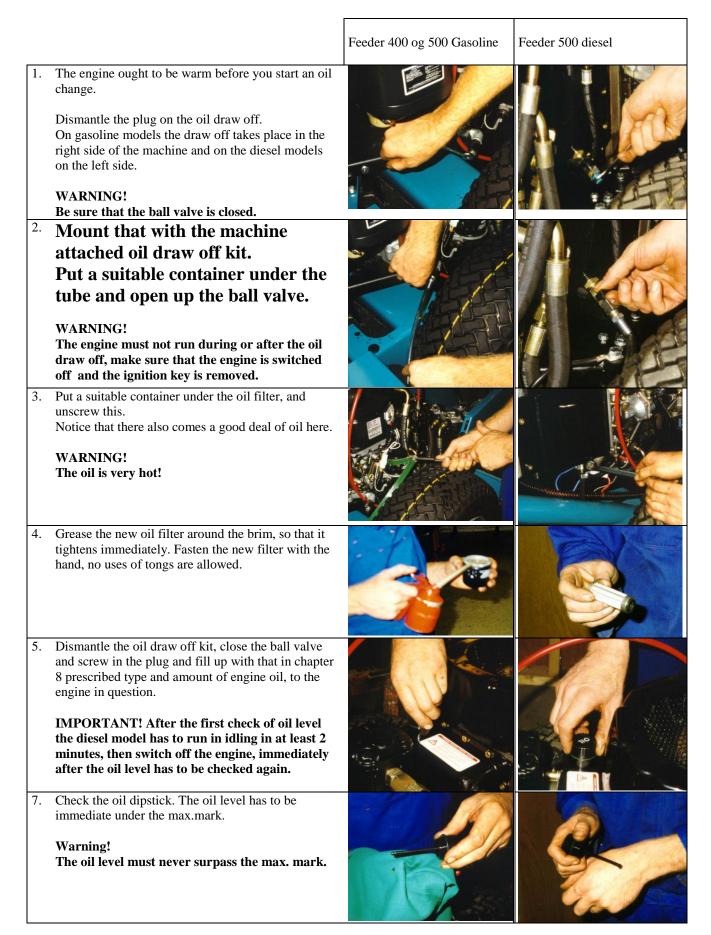
OPERATION	\downarrow	OPERATIONHOURS	5	100	200	500	2500	5000
		\rightarrow						
		for every x.driven						
	. .	hour time						
Check	Engine rack							
	Air filter							
	Oil lamp							
	Engine oil							
		oil level and leaks						
	Diesel tank and tubes, leaks							
	Exhaust							
	Water pun	-						
	Acid level	on accumulator						
	Belt tighter	ning						
	Admission	of air and radiator grille						
Adjustment	Neutral po	sition						
	Speed cabl	le						
	Valve and tip arms adjustments							
	Calibration of injector							
	Stop cable							
Greasing	Cables							
	Steering wheel							
Tighten up	Various bo	olts						
	Nave							
	Engine pla	te						
Cleaning	Air filter							
	Inner oil fi	lter						
	Radiator g	rilles, admission of air						
	Fuel tank							
	Injectors							
Renewing	Belts							
0	Engine oil	(*)						
	Hydraulic oil (*)							
	Air filter							
	Hydraulic oil filter							
	Fuel filter							<u> </u>
	Engine oil	filter						
Renovation of	6							
the engine	Totally							



= First oil change

(*) Hydraulic- and engine oil has to be changed as quoted in the schedule, however it must be changed at least once a year.

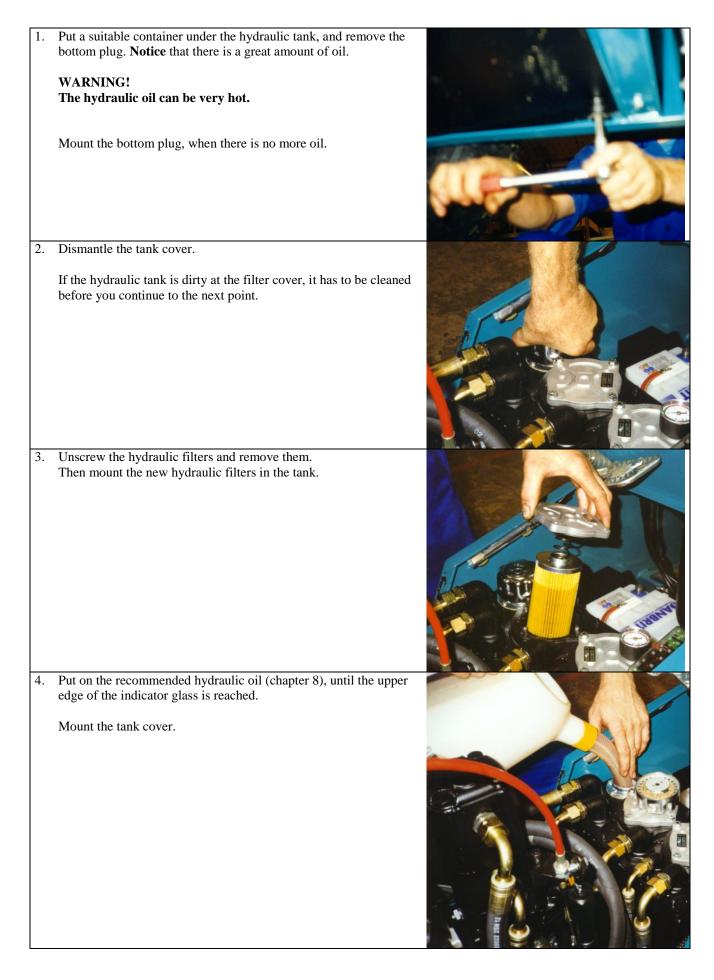
5.3. Engine oil- and oil filter change, Feeder 400, 500 gasoline / diesel.



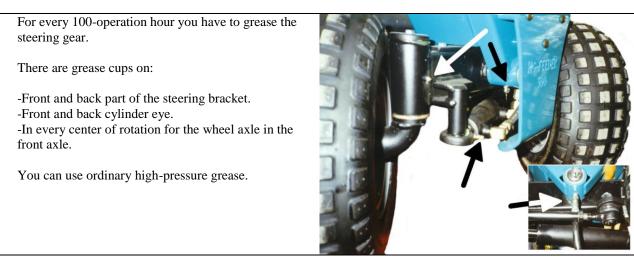
5.4. Cleaning / change of air filter

		Feeder 400 & 500 gasoline	Feeder 500 diesel
1.	Dismantle the air filter cover		
2.	The filter is fixed with another thumbscrew, which has to be unscrewed before dismantling the filter.		
3.	Remove the air filter; take away possible hair wisps with your hands. Then tap the filter easily in order to remove possible loose particles. On Feeder 400 and 500 gasoline you have to clean the front filter with water and soap. When the front filter is dry, you mount the filters and screw on the cover again. If the filter is very dirty / or it is time for changing filters, then mount new filters.		

5.6. Hydraulic oil and hydraulic filter change.



5.7. Greasing



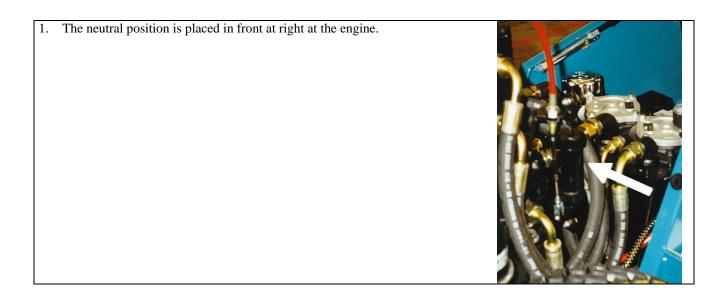
5.8. Adjustment of the neutral position.

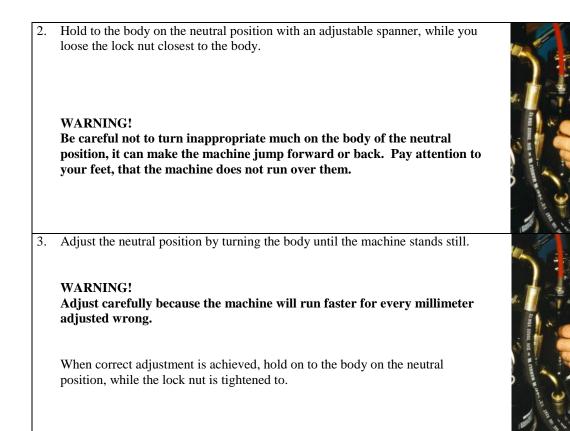
The function of the neutral position is to keep the driving pump in "neutral gear" after running.

WARNING!

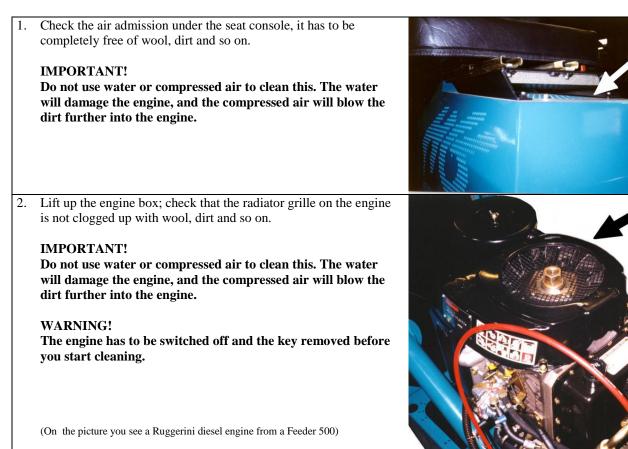
If you are not skilled in carrying out this operation, dangerous situations can turn up. The machine can run off and run into things or persons.

It is very important that the machine is placed, where it cannot bump into anything/someone, neither by reverse nor forward. The machine has to be idling at this adjustment.





5.9. Cleaning maintenance



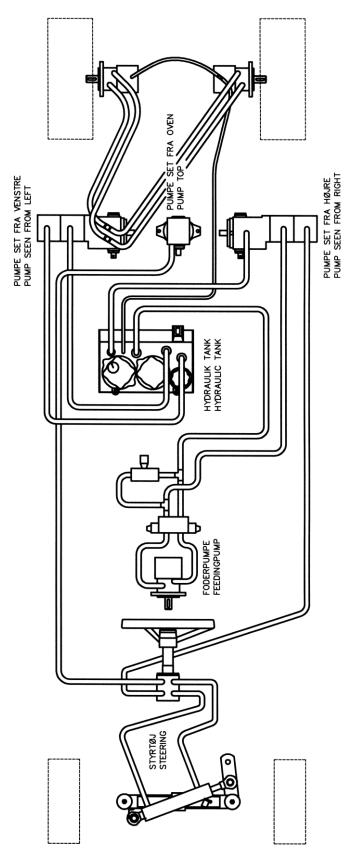
IMPORTANT! Never flush with water directly against the engine.

6. Trouble shooting schedule

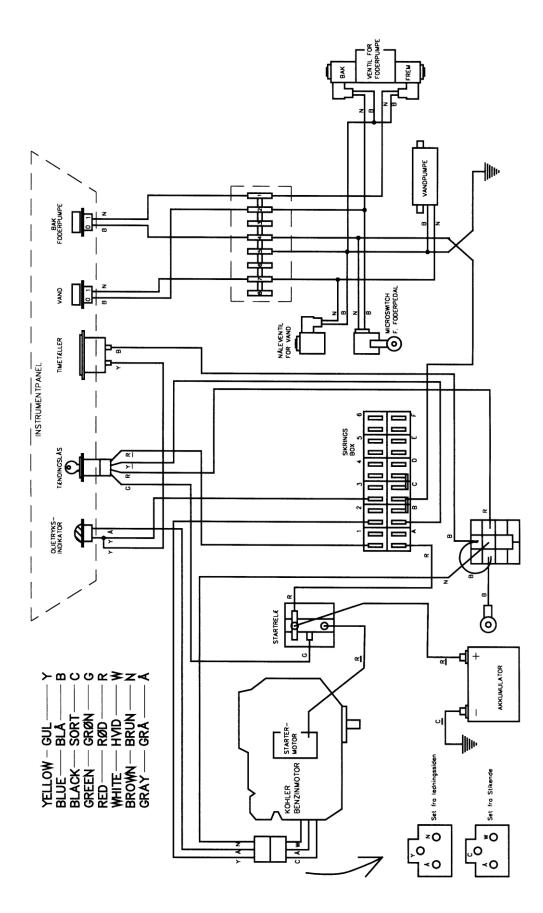
Troubles	Possible reason		
The engine cannot start	• Wrong fuel.		
	• Air in the fuel pump.		
	• Empty fuel tank.		
	• Too big piston clearance.		
	• Coking or defect ignition plug (gasoline). Check if the choke is turned		
	completely off during the operation, the cable can droop.		
	If there often is problems with coking contact the service department in Hedensted Gruppen for information about anti-coking gasoline additive.		
	nedensted Gruppen for mormation about and coking gasonic additive.		
The engine starts, but stops again	• Clogged air filter.		
	• Air in the fuel pump.		
	• Clogged fuel filter.		
	 Error or clogging in the fuel supply. Blocked valve in the fuel tank. 		
	Burnt out exhaust valve.		
The engine has no power	Clogged air filter.		
	• Clogged fuel filter.		
	• Worn cylinder.		
	• Worn piston rings.		
	• Error or clogging in the fuel supply.		
	• Burnt out exhaust valve.		
The engine has a low oil pressure	• Clogged lubricate circulation.		
	• Worn oil pump.		
	• Error on the oil pressure valve.		
The engine is blocked	Defect main bearings. The main bearings are beened on defect		
The engine is blocked	 The main bearings are burned or defect. The pistons are burned.		
	• The hydraulic pump is blocked.		
The engine smokes blue (diesel)	Worn valve guide.		
	• Worn cylinder.		
	• Too much oil in the crankcase.		
	• Worn piston rings.		
The engine smokes white (diesel)	• Too much piston clearance.		
	Wrong injection timing.		
The engine smokes black (diesel)	• Overloading.		
	• Error at the injection.		
The engine knocks in the crankcase	• Small or big end bearings are burned or defect.		
The engine knocks in the tilting device	• Wrong fuel.		
	 Too little piston clearance. Wrong injection timing (diesel).		
	Wrong injection thing (diesel). Worn piston rings.		
The engine uses oil	Worn valve guide.		
	• Worn cylinder.		
	• Oil packings are leaky.		
	• Too much oil in the crankcase.		
	Worn piston rings.		
The engine oil level increases	• Too much piston clearance.		
	Defect injection system.		
The engine looses oil	• Blocked breath tube.		
	• Defect injection system.		
The engine is superheated	Too little piston clearance. Cooling rips are cloared		
	Cooling ribs are clogged.The injection timing is wrong.		
	The Injection thing is wrong.The Injector is defect.		
	• The engine is overloaded.		
The engine misfires	Wrong fuel.		
	• Cold engine.		
	Admission of air clogged.		
	• Gets false air in via the injection pump.		
	• Defect injection pump system.		
Bad acceleration	 Wrong fuel. Gets false air in via the injection pump. 		

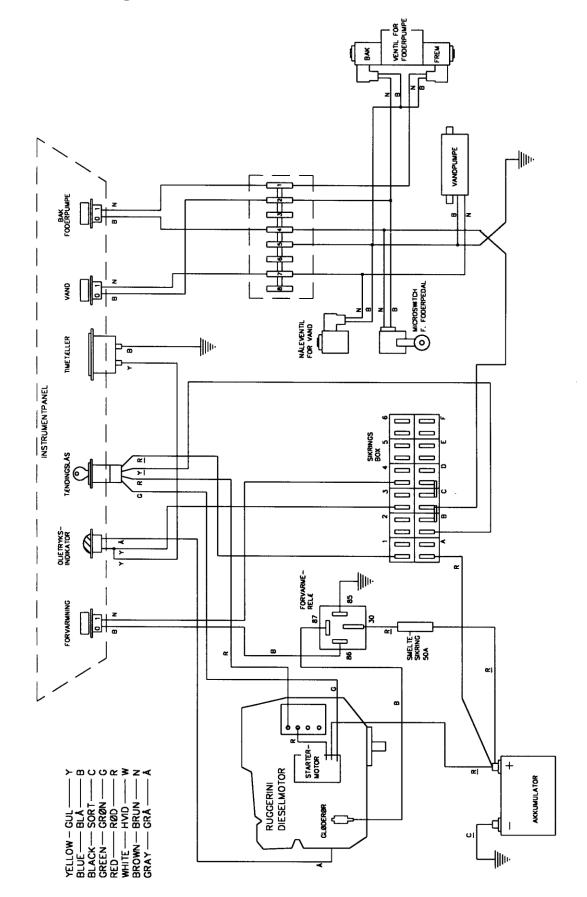
7. Hydraulic- and Electric-diagrams

7.1. Hydraulic diagram



7.2. Electric-diagram (Feeder 400 / 500 gasoline)





7.2. Electric-diagram (Feeder 500 diesel)

8. Tecnical data

8.1. HG Feeder 400 gasoline

Dimensions and weight	
Width	890 mm.
Length	2050 mm.
Height	1415 mm.
Unloaded weight	550 kg.

Engine	
Kohler C15, vertical axed gasoline engine	15 hk. (11 kW)
Volume	426 ccm
Bore x stroke	90 x 67 mm

Various liquids

Engine oil	Q8 avanceret 5W-40
Hydraulic oil	Q8 Handel 32
Fuel (never oil mixed gasoline!)	95 octane unleaded gasoline

Tank and containers	
Tank size	400 ltr.
Water tank	28 ltr.
Gasoline tank	9,5 ltr.
Hydraulic tank	28 ltr.

Wheel dimensions and tyre pressure	
Back wheel dimension	23x8,50-12
Tyre pressure back	See chapter 3.6.
Front wheel dimension	LP-190-8
Tyre pressure front	See chapter 3.6.

Steering gear	
Steering	Servo
Turning diameter (rewrited cirle)	3,8 mtr

8.2. HG Feeder 500 gasoline

Dimensions and weight	
Width	890 mm.
Length	2220 mm.
Height	1465 mm.
Unloaded weight	570 kg.

engine	
Kohler, vertical axed gasoline engine	15 hk. (11 kW)
Volume	426 ccm
Bore x stroke	90 x 67 mm

Various liquids	
Engine oil	Q8 advanced 5W-40
Hydraulic oil	Q8 Handel 32
Fuel (never oil mixed gasoline!)	95 octane unleaded gasoline

Tanks and containers	
Tank size	470 ltr.
Water tank	32 ltr.
Fuel tank	9,5 ltr.
Hydraulic tank	28 ltr.

Wheel dimensions and tyre pressure	
Back wheel	23x8,50-12
Wheel pressure back	See chapter 3.6.
Front wheel	LP-190-8
Tyre pressure front	See chapter 3.6.

Steering gear	
Steering	Servo
Turning diameter (rewrited circle)	3,8 mtr

8.3. HG Feeder 500 diesel

Dimensions and weight	
Width	890 mm.
Length	2220 mm.
Height	1465 mm.
Unloaded weight	580 kg.

Engine	
Kubota, vertical, water cooled, 4-strokes diesel engine	23,5 hk/3600 rpm (17,5 kW)
Volume	898 ccm
Bore x stroke	72 x 73,6 mm
Speed	15 km/ per hour/3600 rmp

Various liquids	
Engine oil	Q8 T500 15W-40
Hydraulic oil	Q8 Handel 32
Fuel	Diesel

Tanks and containers	
Tank size	470 ltr.
Water tank	32 ltr.
Fuel tank	9,5 ltr.
Hydraulic tank	28 ltr.

Wheel dimensions and tyre pressure	
Back wheel	23x8,50-12
Tyre pressure back	See chapter 3.6.
Front wheel	LP-190-8
Tyre pressure front	See chapter 3.6.

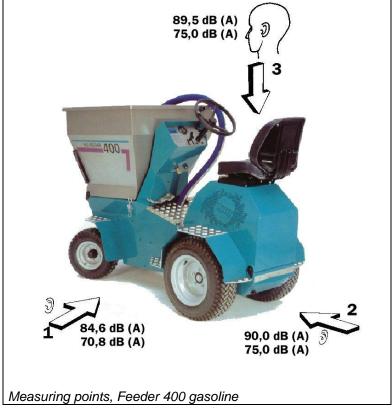
Steering gear	
Steering	Servo
Turning diameter (rewrited circle)	3,8 mtr

8.4. Sound level measuring, Feeder 500 diesel



The high measured values at the arrows are at full speed and the low at idling.

8.5. Sound level measuring, Feeder 400 / 500 gasoline



The high measured values at the arrows are at full speed and the low at idling.



USE OF EAR DEFENDERS IS RECOMMENDED!

10. Guarantee regulations

Guarantee period

The manufacturer of this machine gives guarantee in 12 months (max. 1000 operating hours). Guarantee period starts at the delivery date.

The guarantee covers:

-Components which have to be exchanged or repaired because of material- or manufacture defects.

The guarantee do not cover wear and consumption parts such as:

-Feeding pump, Tires, Bulbs, Filters, Oil and so on.

The producers` guarantee expires if:

-Incorrect use of the machine.

- -The machine is used without following the instruction book and the security instructions.
- -The service time schedule is exceeded, or replacement parts, which are not of equivalent quality are used, for instance filters.

-The machine is used after a defect is established, if this results in a more expensive repair than the original defect.

The owners own insurance ought to cover:

-Fire, burglary, stealing and vandalism.

- -Water and frost damages.
- -Corroding damages caused by battery acid.
- -Damages caused by wind and weather.

The producers` guarantee does not cover these cases.

Approval of claim on compensation:

Implies that the defect part is shown to the producer or his representative within 2 weeks after arises of the damage. The owner rights to the damaged parts are transferred to the supplier of the new parts.

The guarantee only covers components, not:

-Freight costs

-Cost for wait, the working hours of the machine owner and travel costs.

-Working losses and other subsequent costs.

Other things

Before the guarantee repair you have to contact the producer in order to arrange the procedure. If the repair is started or done, it is too late to claim guarantee.

These guarantee regulations can only be changed with a separate agreement.

16. EU-accordance declaration.

Hedensted Gruppen A/S Vejlevej 15, 8722 Hedensted Tlf. (+45) 75 89 12 44 Fax (+45) 75 89 11 80 www.hedensted-gruppen.dk

- declares hereby: HG Feeder 600 Typenumber 250039

- is in accordance to: Maskindirektivet 2006/42/EF

- under use of harmonic standards . DS/EN 12100-1:2005 DS/EN 60439-3 DS/EN 13857:2008

15. februar 2007

fens Jørgen Madsen Direktør