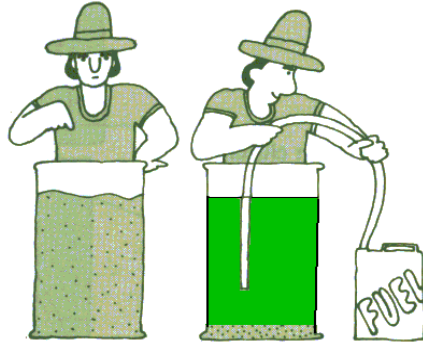


III. PREPARATION

3-1. Fuel Oil

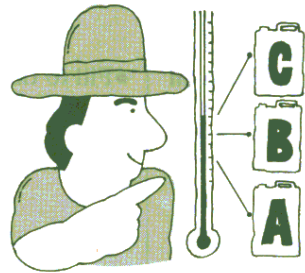
- Use well refined diesel light of such as automotive diesel oil.
- Keep the fuel oil free of impurities such as dust deposit and water.



3-2. Lubricating oil

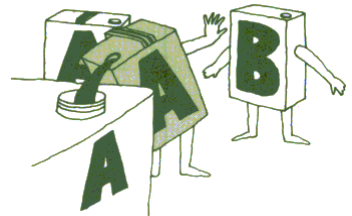
Choice of the proper lubricating oil is of vital importance.

- 1) Crank case & Air filter
 - Use the engine oil S.A.E No. 10W-No.50 according to atmospheric temperature.
- 2) Transmission, rotary chain case .
 - Use the gear oil S.A.E. No.90-No.140 according to atmospheric temperature.

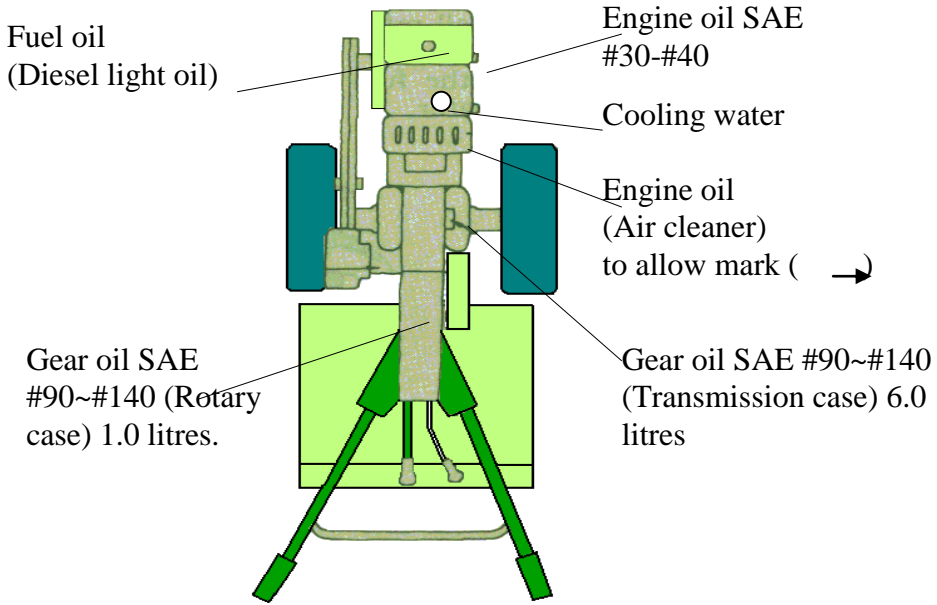


Notice:

When adding lubricating oil if necessary, fill the same brand's one. Otherwise, the lubricating efficiency is getting worse extremely.

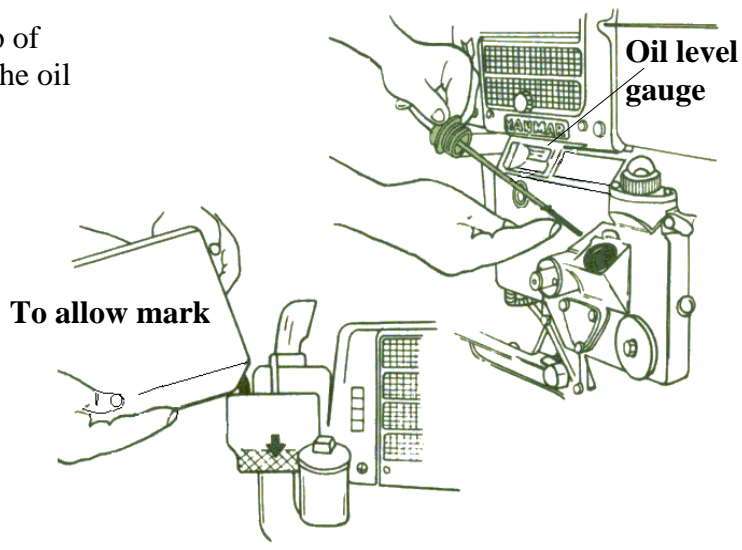


3-3. Feeding



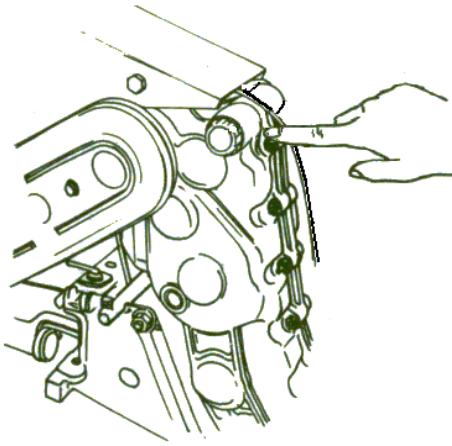
Engine oil

- Fill to the top of the scale on the oil level gauge.

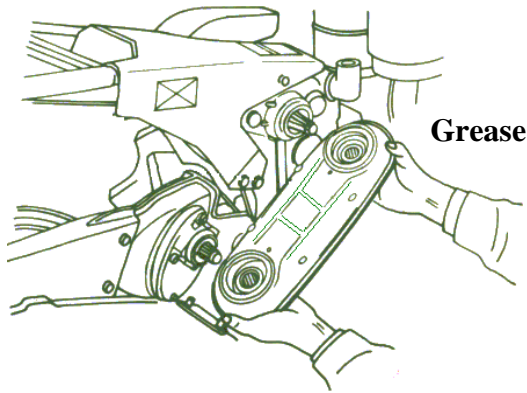


Oil feeding port
Transmission gear case

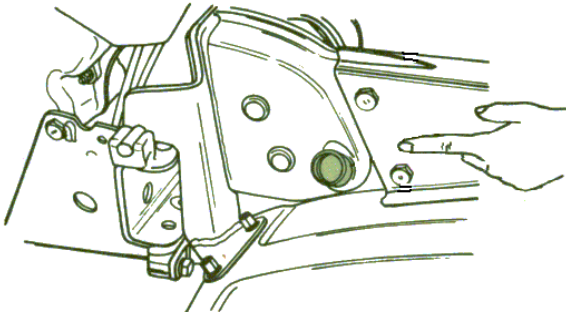
Gear oil



Side chain case



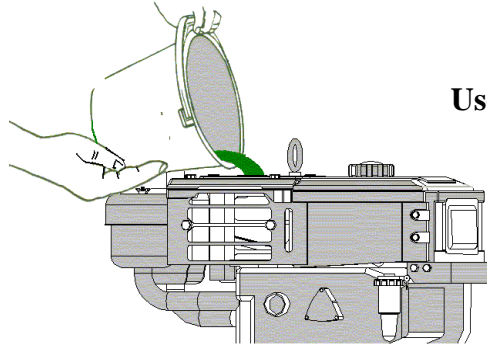
Grease



**Rotary case
Gear Oil SAE
#90~#140
1.0 litres**

Cooling water

Pour the water into the top till it overflows.

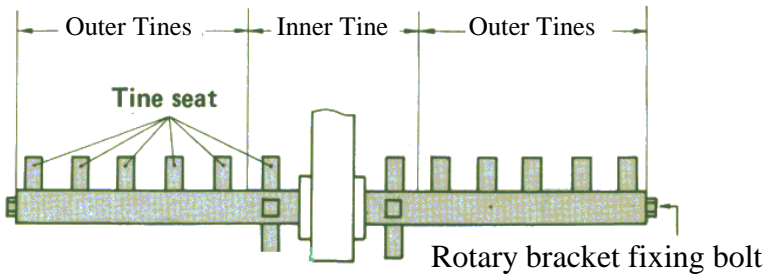
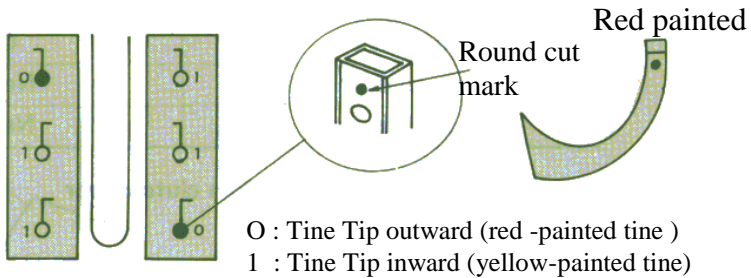


Use of clean water

3-4. Fitting of rotary tines

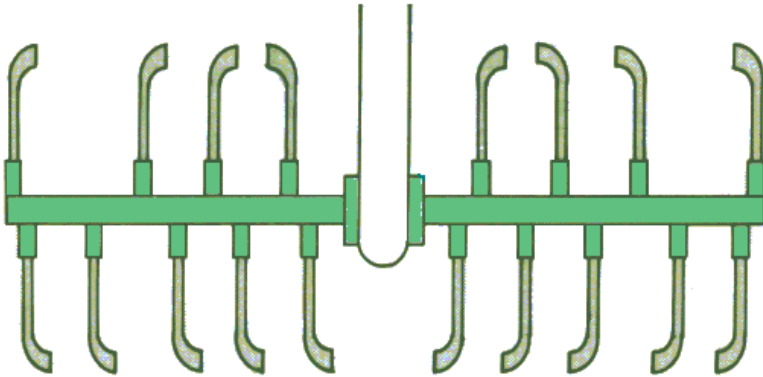
When fitting of the tine is completed, stop the engine and set the rotary change lever to the "N" position.

1) Arrangement of Inner Rotary Tines

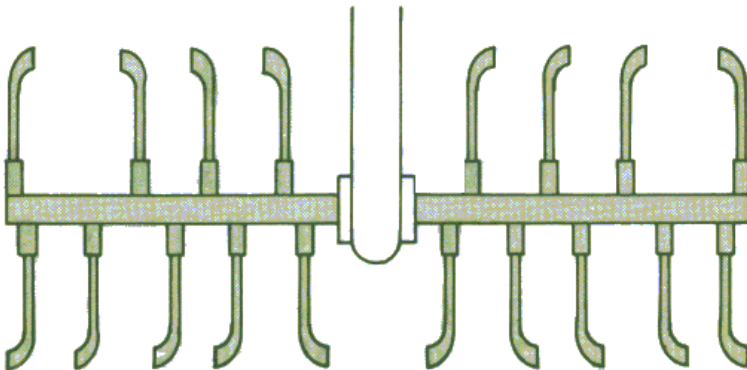


2) Arrangement of Outer Rotary Tines

- Soil Inward Tilling



- Soil Outward Tilling
No need to change the inner tines

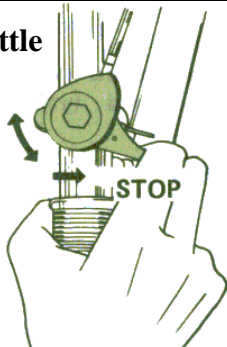


IV. STARTING

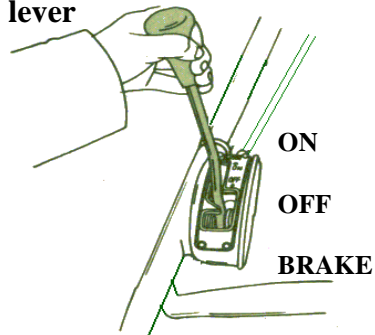
- Prior to start, make it a rule to check the follows.

Levers		Position
1	Engine throttle	High-Low
2	Main Clutch	OFF
3	Main Change	Neutral
4	Rotary Change	Neutral

Throttle

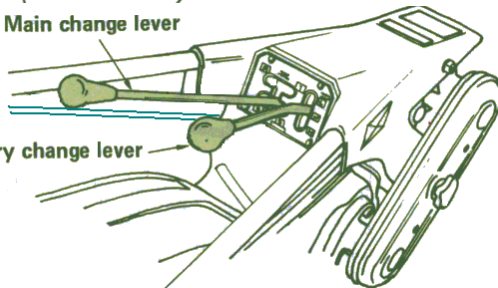


Main clutch lever



Main change lever

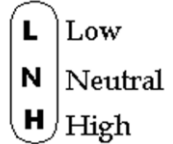
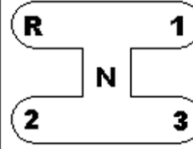
Rotary change lever



YZC, YZD, YZC-D

Main change lever

Rotary change lever



Trailer

START THE ENGINE

WARMING-UP RUN

Without loading (more 5 min.)

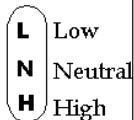
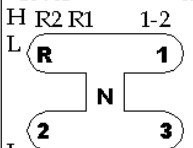
Checking points.

- 1)Turning of oil indicator
- 2) Noise.

YZC-N, YZD-N, YZC-H, YZD-H

Main change lever

Rotary change lever



Trailer

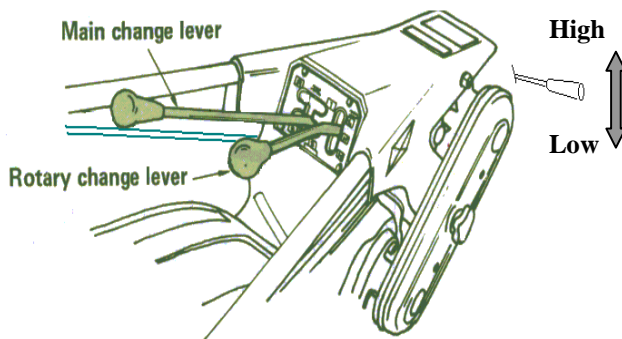
(Auxiliary speed control equipped)

V. OPERATION

- Select the most suitable position for your soil and working condition.

No	Contents	Position	
		YZC,YCD, YZC - D	YZCN/H
1	Main change lever	Forward 1- 3 Reverse 1	Forward 1- 6 Reverse 1- 2
2	Rotary change lever	Low or High	
3	Side chain case	Large or Small	
4	Tail wheel adjusting handle & lever	Shallow - Deep	
5	Rotary Tine	Inward or Outward	
6	Tread (mm) 6-12 or 5.00-12	(526.708 or 546.688), 2 stage	
7	Stand lever	Up	

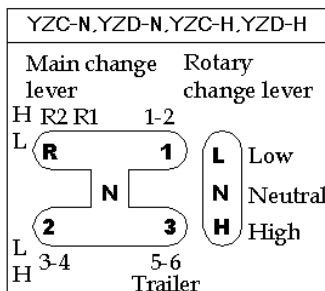
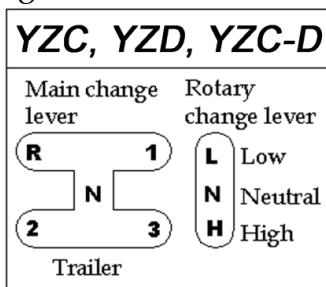
- 1) Main change lever



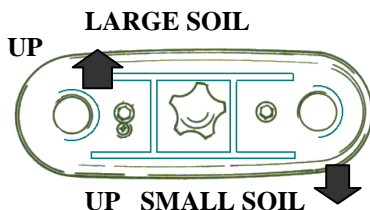
Auxiliary speed control lever
(Available for -
Model YZC-N/H only)

Auxiliary speed control lever
(Available for Model YZC-N/H only)

- 2) Rotary change lever



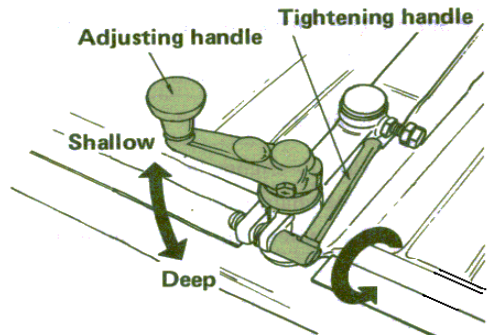
- 3) Side chain Case



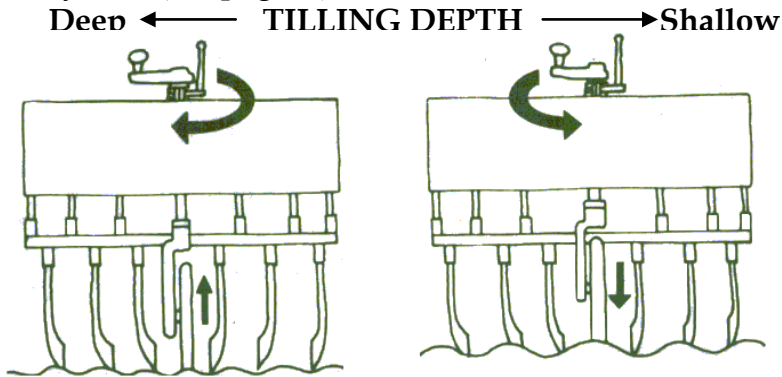
*Use auxiliary speed control lever for switching H-L

4) Tail wheel adjusting handle & lever

The adjustment of tilling depth can be done by lowering or raising the tail wheel by means of the adjusting handle and the tightening handle.

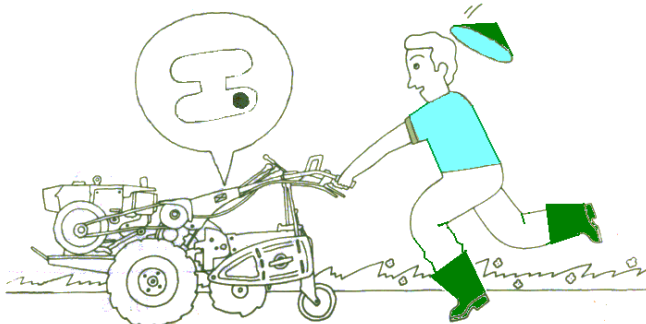


5) Rotary tine (see page 8)

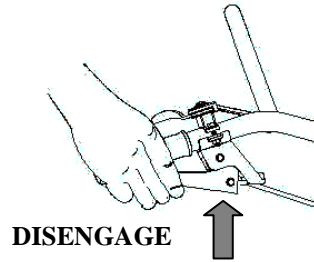
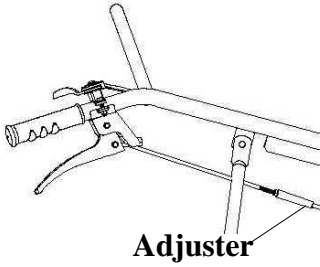


Notice :

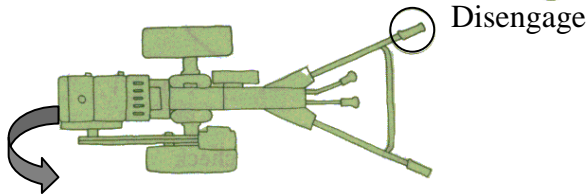
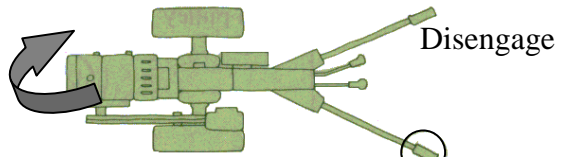
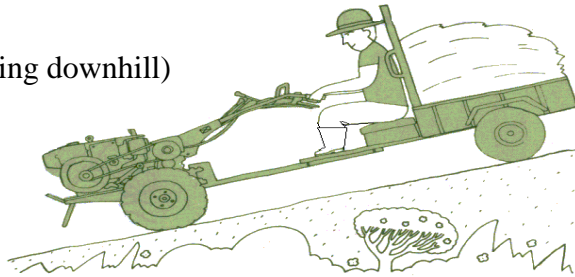
1. Pay attention to the driving with 3rd forward speeds since they are high speed. (On YZC-N ,5 and 6 are high speed positions).
2. When driving downhill, apply the side clutch to opposite to the side to which the tiller tends to curve.
3. Lighting system.



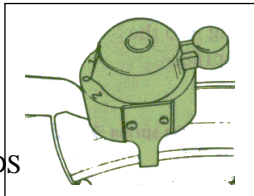
Side clutch lever



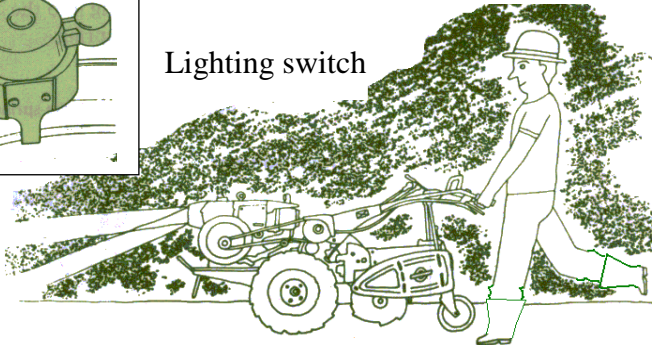
(When driving downhill)



1~ UPWARDS
0~OFF
2~DOWNWARDS



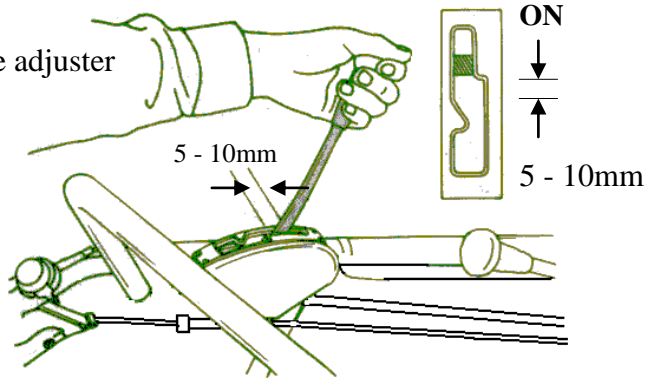
Lighting switch



VI. ADJUSTMENTS

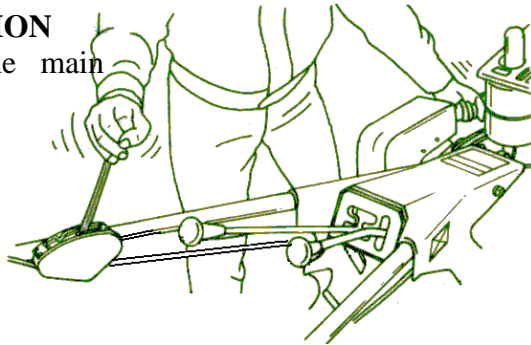
6-1. Main clutch

Adjust with the adjuster



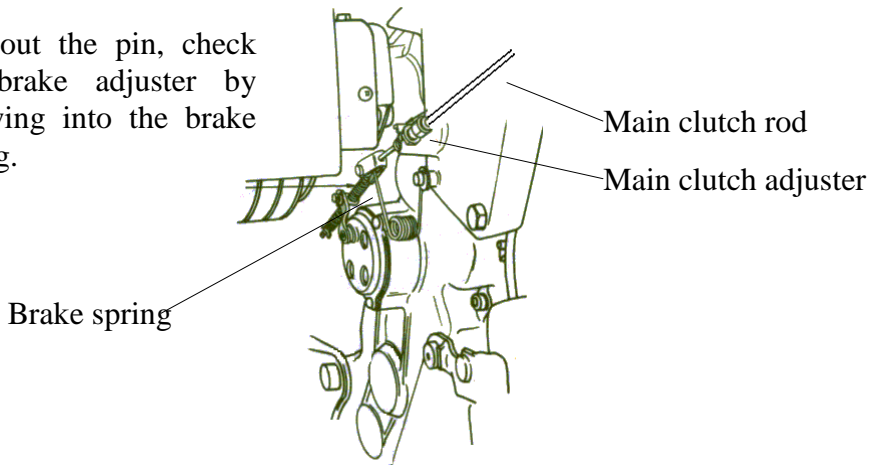
CONFIRMATION

While turning the main pulley

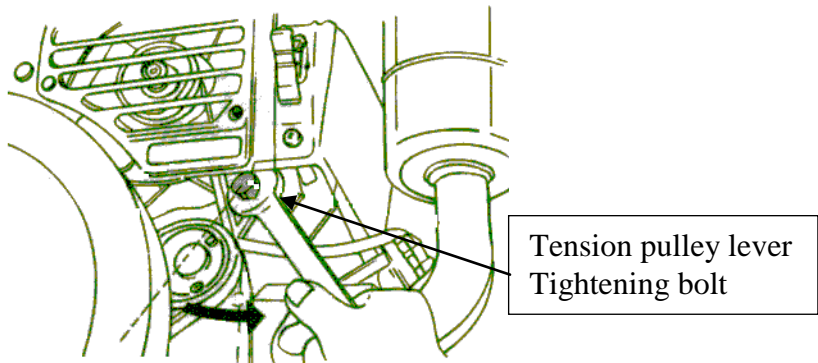
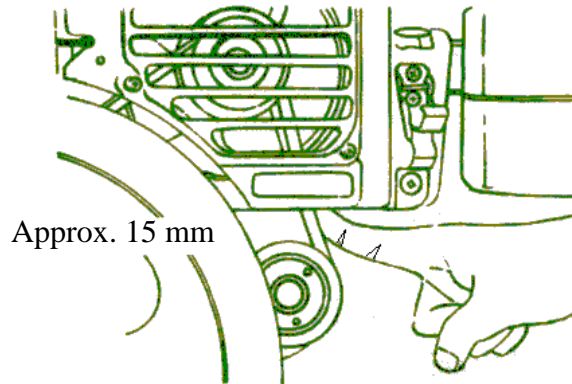
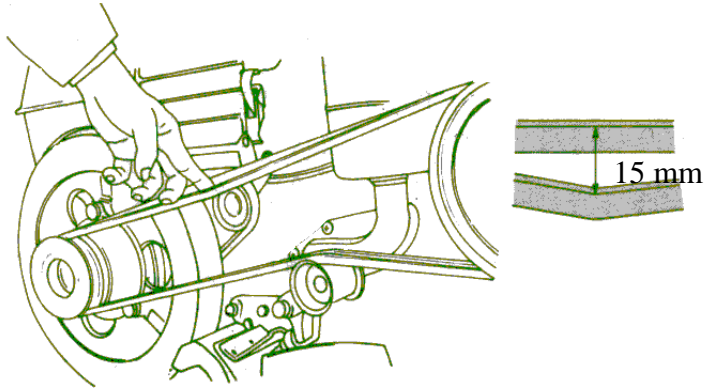


6-2. Brake and Main clutch

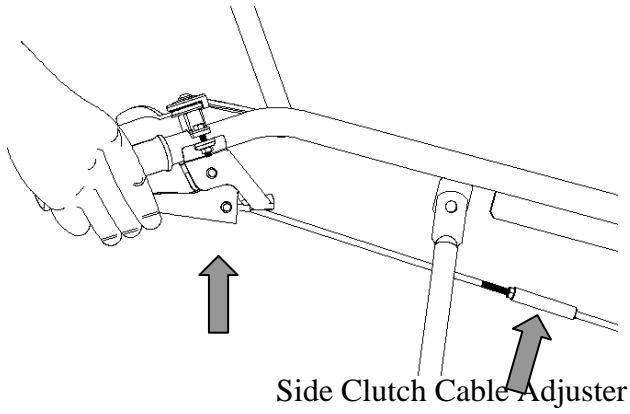
Pull out the pin, check the brake adjuster by screwing into the brake spring.



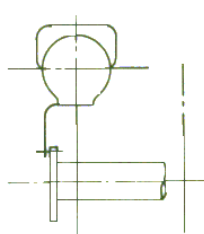
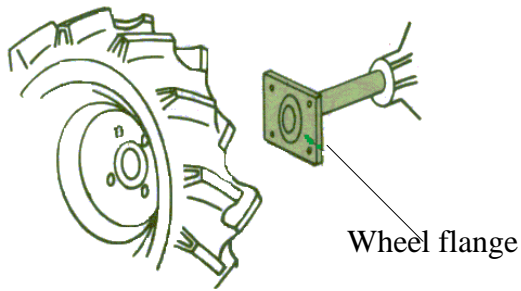
6-3. V-belts



6-4. Side Clutches

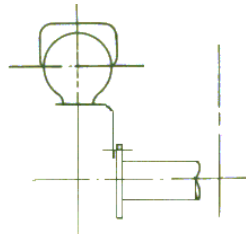


6-5. Tread



526

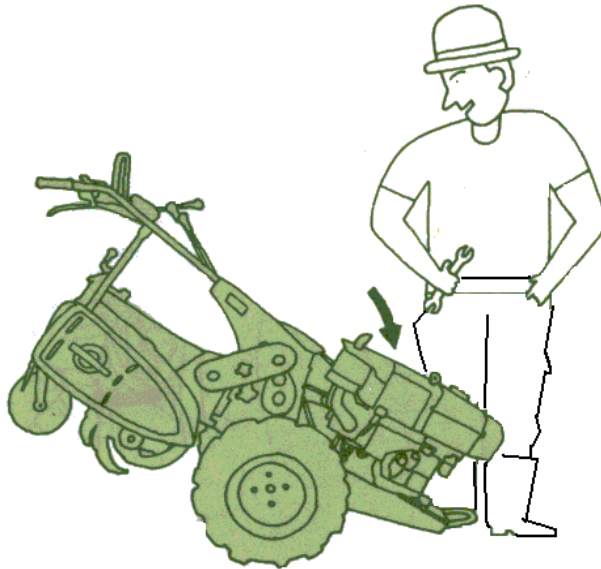
6-12Tire
(5.00-12 Tire) (546)



708

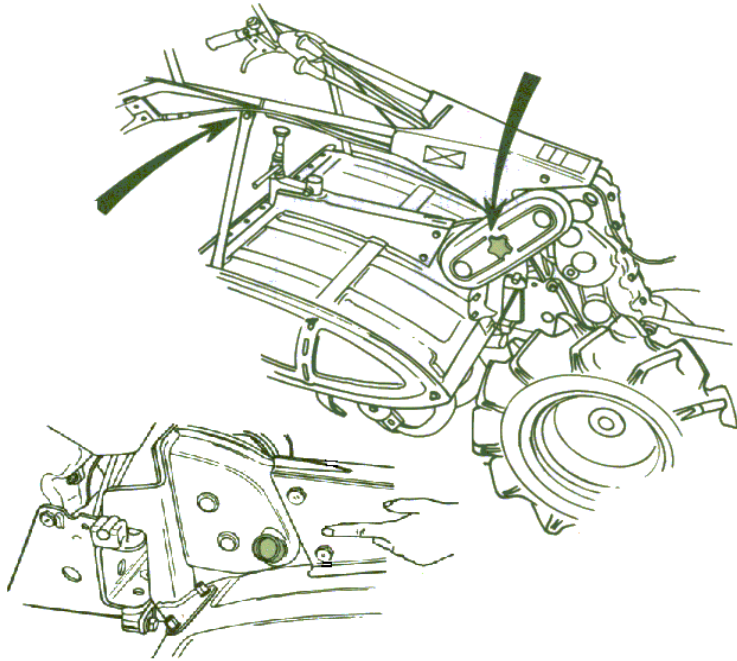
(688)

6-6. Attaching and detaching of rotary section



Detaching procedure

1. First of all, stop the engine. Then adjust the height of the tail wheel so that the clearance between rotary tines and ground should be at 1-2 mm.
2. Set the rotary change lever in either L or H position. Touch the front frame to the ground.
3. Loosen the knob bolt of the side chain case completely.
4. Rotate the rotary shaft to direction of tillage and remove the side chain case.
5. Loosen the tightening bolt, at the front of rotary case.
6. Remove the bolts, nuts and washers on the handle stay.
7. Push the steering handle downward. Then remove the fitting bars from hitch and push the tiller forwards. This will detach the rotary section.



Attaching procedure

This procedure is the reverse of the detaching procedure described above.

1. Lengthen the depth adjusting shaft of tail wheel in order to incline the rotary section toward the forth.
2. Pull the tiller toward the back and put the fitting bars on to the hooks of hitch.
3. Tighten the bolts at the front of rotary case.
4. After the tiller is in level, attach the side chain case. In this case, match the splines rotating the rotary shaft by hand.
5. Tighten the knob blot of the side chain case.

VII. AFTER OPERATION

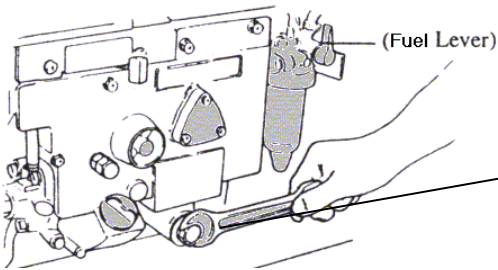
7-1. Stopping

- Post operation maintenance greatly life of the tiller

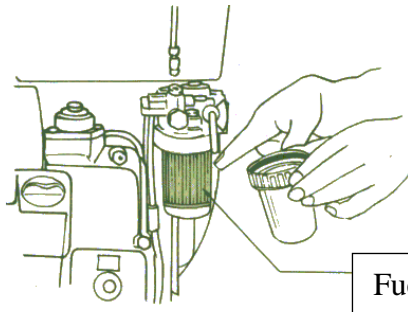
Contens	Procedure	Remarks
Throttle lever	Stop	Do not use the decompression lever
Main clutch lever	OFF	
Main change lever	Neutral	
Rotary change lever	Neutral	
Stand	Put down	

7-2. Draining (Lubrication & Fuel oil & cooling water)

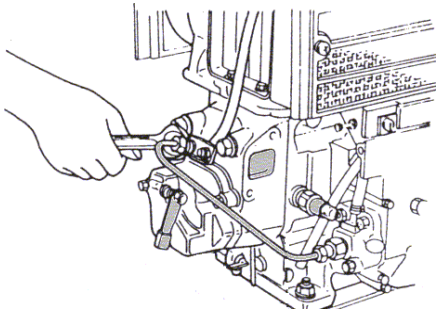
- ENGINE



Drain plug
(Crankcase)

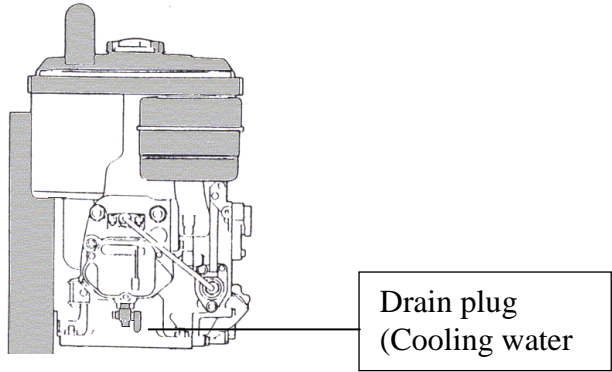


Fuel oil filter

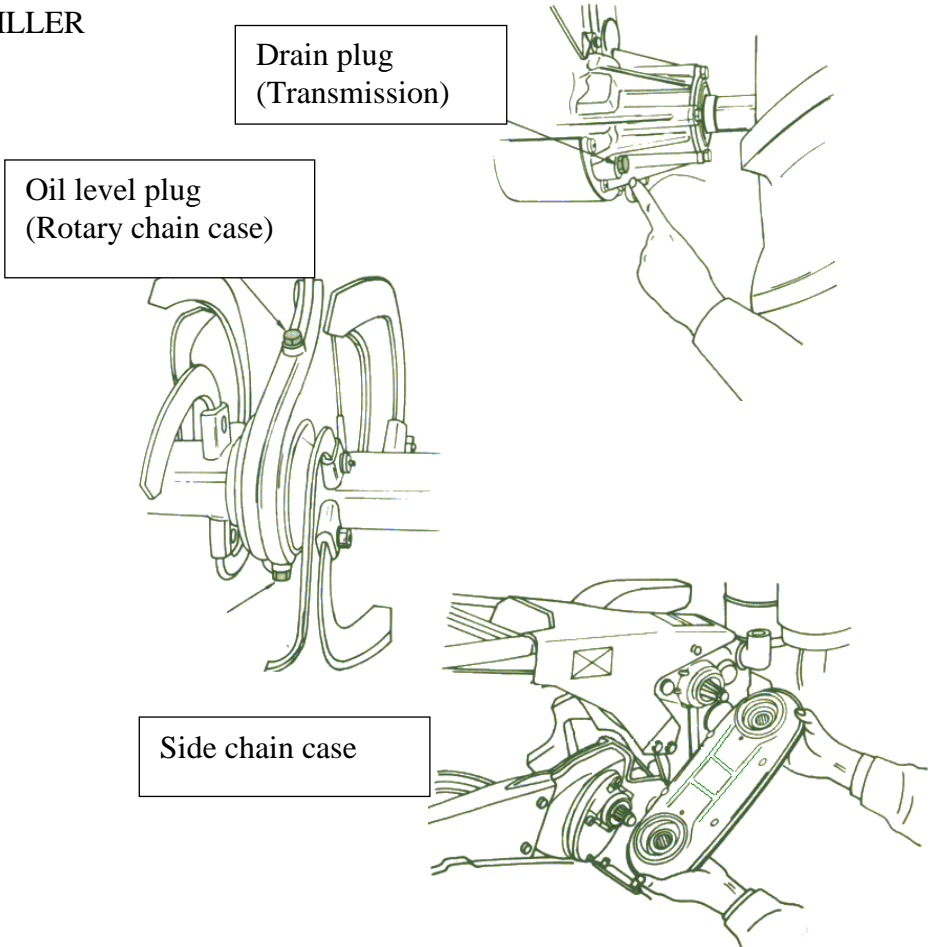


Drain plug
(Fuel oil tank)

- ENGINE
(Continued)



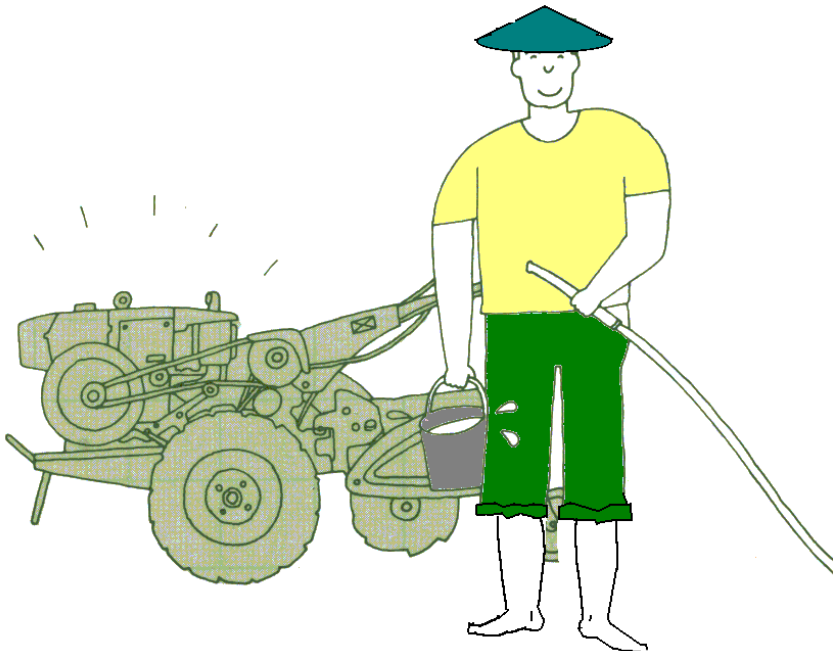
- TILLER



7-3. Storage

Contents	Procedure	Remarks
Throttle lever	Stop	Intake & Exhaust Valves are both closed tightly
Fly wheel	T.D.C	
Main clutch lever	OFF	
Main change lever	Neutral	
Rotary change lever	Neutral	
Stand	Put down	
Rubber tire	Dry out	Place a wooden board under the tires.
Cooling water	Drain off	
F.O.tank cock	Shut	

- 1) Wash off soil and mud from the machine and then wipe dry with a dry cloth.
- 2) Check bolts and nuts for looseness and retighten them if necessary.
- 3) Check for damaged parts and repair when necessary.



VIII. MAINTENANCE

8-1. Engine

Description		Daily	Every 100 Hrs	Every 200 Hrs	Every 300 Hrs	Remark
Cooling Water	Checking and feeding	●				
Fuel oil	Checking and feeding	●				
	Changing (F.O.tank)		●			
	F.O.inlet strainer cleaning				●	
	F.O.outlet strainer cleaning				●	
Lubricati- on Oil	Checking and feeding	●				
	L.O.intake filter		●			
	Checking and feeding (Crankcase, Air cleaner)	●				
	Cleaning of air cleaner element		●			
	Cleaning of oil circulation indicator		●			
	Changing (Crankcase)		●			
Cooling fan belt	Checking and tightening	●				
Others	Checking and tightening (Major parts)	●				
	Adjusting intake & exhaust valves clearance				●	
	Checking (Fuel injection system)				●	

- Should be cleaned often according to the degree of dust deposit.
- Renew the lubricating oil of the crank case after first 25 Hrs of Service.

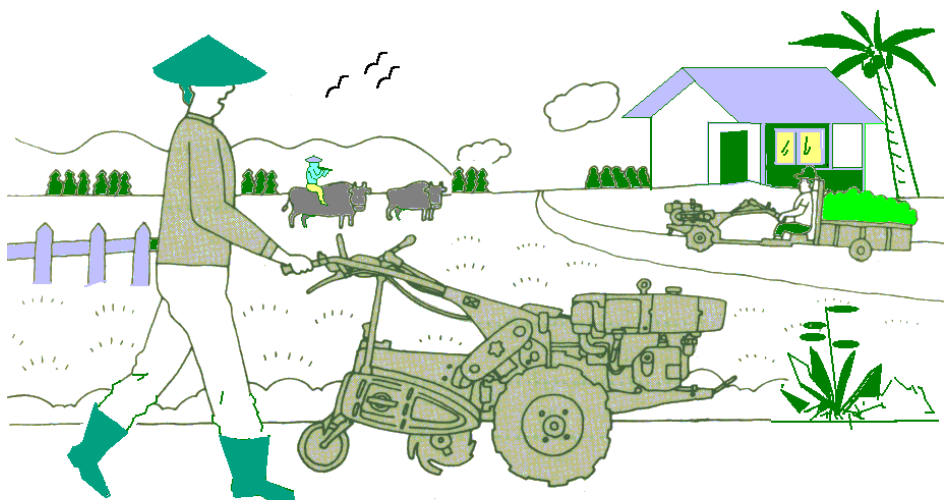
8-2. Tiller

Inspection and Service Item		Time			Remarks
		Before Using	During Running	After Using	
Exterior of Tiller	Checking and servicing of damaged or missing parts	•	•	•	Pay particular attention to missing pins and screws
	Checking and servicing of loose engine mounting bolts	•	•	•	Check daily
	Checking and servicing of loose rotary tine mounting bolts	•	•	•	Check daily
	Checking and retightening of other screws and fasteners	•	•	•	Check daily
	Cleaning exterior	•	•	•	Check daily
Lubricating Oil	Manual lubrication of each part	•	•	•	Gear oil
	Inspecting, topping up and changing oil in main transmission case, rotary case, etc.	•	•	•	Gear oil
Greasing	Inspecting and changing grease side chain case	•		•	Grease

Inspection and Service Item		Time			Remarks
		Before Using	During Running	After Using	
Greasing	Spline part of rotary shaft	•		•	Use chassis grease
	Spline part of side chain case	•		•	Use chassis grease
	Tail wheel adjusting screw	•		•	Use chassis grease
Main clutch	Checking and adjusting meshing of clutch	•		•	
	Checking clutch adjusting parts	•		•	Check the clearance is as specified
	Cleaning clutch interior	•			
Operation System	Checking and servicing main transmission lever	•		•	
	Checking and servicing side clutch	•		•	
	Checking and servicing brake	•		•	
Rotary Section	Cleaning rotary cover and rotary bracket	•	•	•	

Inspection and Service Item		Time			Remarks
		Before Using	During Running	After Using	
Others	Adjusting V-belt tension	•		•	
	Checking tire pressure	•		•	
	Adjusting engine throttle lever	•		•	
	Checking and servicing tail wheel			•	

- Renew the gear oil of the transmission, rotary chain case after first 30 Hrs or Service and there after at intervals of 200 Hrs of work.



PART LIST