



**OWNER'S MANUAL FOR  
TILLER**

**Type**

**F41**



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## INTRODUCTION

This Manual contains all the necessary information for the tiller F41 for correct operating. Read this Manual carefully before using the tiller. Correct handling and proper servicing will keep the tiller in top operating conditions for a longer life span. In a case of malfunction, consult the dealer from whom you bought it and he will provide you with prompt assistance.

## 1. TECHNICAL SPECIFICATIONS

### TILLER

Mass	32 kg
Length	1340 mm
Width	530 mm
Height	1090 mm
R.P.M. (Revolution per minute)	1130 min <sup>-1</sup>
Reverse	none
Adjusting the handle height :	3 possible positions
Transport wheels	upon request
Mulchers:	2 x 2 rotor
Side disks :	delivered
Maximum ground incline:	frontal 20 degrees side 15 degrees
Mulcher working width:	520 mm

### ENGINE – HONDA GCV 140 A/ GCV 160 A0 (read engine instructions)

Mesasure	GCV 140A	GCV 160A0
At engine	GJASA	GJAPA
Lenght	395 mm	395 mm
Width	329 mm	329 mm
Height	361 mm	361 mm
Weight when engine is empty	10,5 kg	10,5 kg

### ENGINE

Engine type	Four stroke, one cylinder with above valve	Four stroke, one cylinder with above valve
Volume	160 cm <sup>3</sup>	160 cm <sup>3</sup>
Diameter and cylinder run	64 x 50 mm	64 x 50 mm
Max power	3,1 kW, (4,2 PS) / 3600 o/min <sup>-1</sup>	3,3 kW, (4,4 PS) / 3600 o/min <sup>-1</sup>
Max R.P.M.	9,3 N.m (0,95 kgf-m) / 2500 o/min <sup>-1</sup>	9,4 N.m (0,96 kgf-m) / 2500 o/min <sup>-1</sup>
Fuel consumption	1,0 L/h (3000 o/min <sup>-1</sup> )	1,0 L/h (3000 o/min <sup>-1</sup> )
Cooling system	Ventilator	Ventilator
Ignition system	Transistor – magnetic ignition	Transistor – magnetic ignition
Gear rotation	counterclockwise	counterclockwise
Fuel tank	0,93 l	0,93 l
Oil tank	0,50 l	0,50 l
Engine oil	SH ili SG; SAE 10W-30	SH ili SG; SAE 10W-30
Spark-plug	BPR6ES (NGK)	BPR6ES (NGK)



## **2. PURPOSE**

Tiller F41 is designed generally for tilling of soil in gardens, smaller vineyards, orchards and vegetable gardens. Mainly for conditions when is it impossible to use bigger machine, and manual work would be harder and would take longer.

Tiller is intended for use with mulcher, cylinder rotor and spiry rotor.

These attachments are assembled directly on the exit shafts, set with the bolts and secured with the “beta” protector. It is equipped with the new type of handlebar so operating is much easier.

Tiller is possible to use on different ground. Maximum ground incline for easy operating frontal 20 degrees and side 15 degrees.

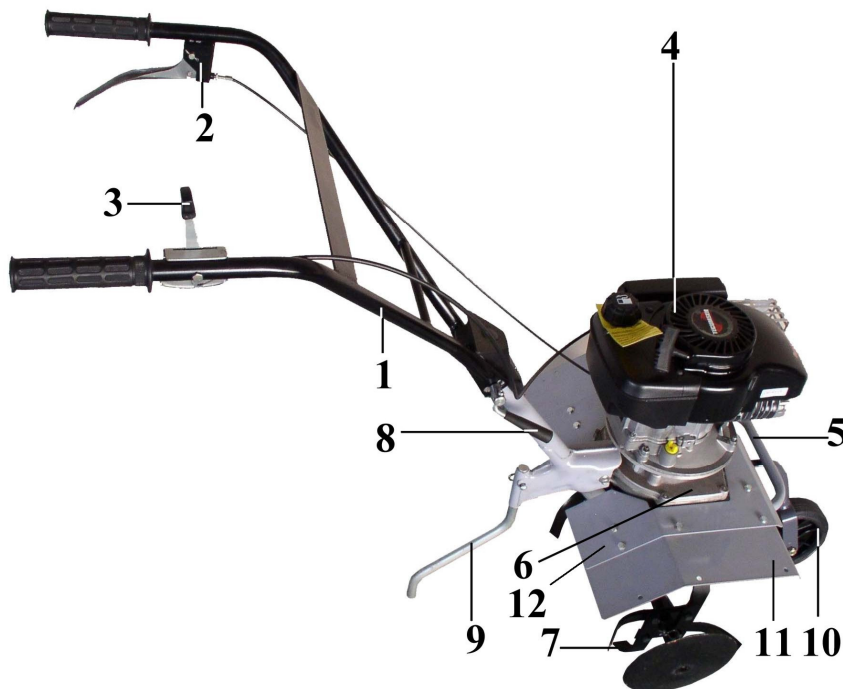
Do not run the engine in a closed ambient where the exhaust gases can collect. They contain carbon monoxide that is highly toxic.

## **3. SAFETY REGULATIONS**

1. Do not allow person that is not informed with this manual or children to use the machine.
2. **Keep children and pets at the safe distance when tilling.**
3. Keep hands and feet away from rotating parts while engine is running.
4. The operator should always remain behind the tiller during straight line operation.
5. Always keep both hands on the handlebar when operating.
6. The engine must be stopped before doing any work on the machine or its attachments.
7. During any work, in a closed ambient, it's necessary to provide enough ventilation because of highly toxic carbon monoxide.
8. Do not incline the tiller excessively to prevent fuel spill.
9. Do not work, repair, set, pour fuel or oil near any heat source which could cause inflammation.
10. Do not pour fuel while the engine is hot.

## 4. IDENTIFICATION OF COMPONENTS

1. HANDLE
2. CLUTCH LEVER
3. THROTTLE LEVER
4. ENGINE
5. TRANSFER HANDLE
6. GEARBOX CASE
7. MULCHERS WITH THE SIDE DISCS
8. CLAMPING LEVER FOR HANDLEBAR
9. BAR DRAG
10. WHEEL
11. EXTENDED FENDER
12. FENDER



PICTURE 1

## 5. CHECKS BEFORE USE

Before using the tiller you **MUST** assemble fenders. Tighten them with screws, washers and nuts which are delivered with the tiller.

Check the following items before starting operation:

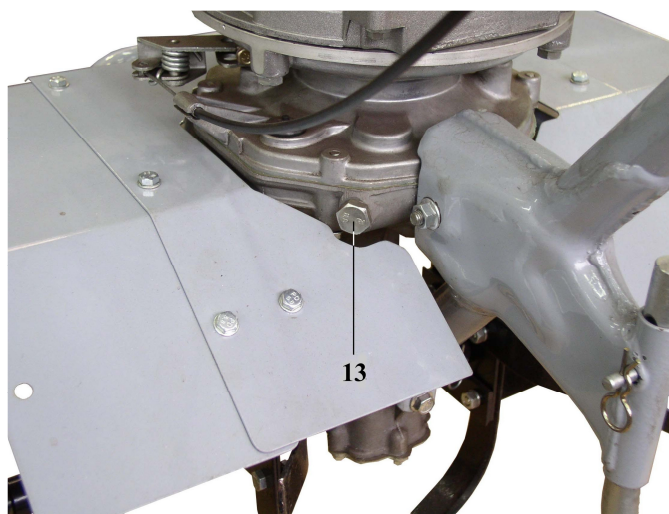
1. Make sure there is sufficient fuel to perform the work (see engine instructions)
2. Oil level in the reducer
3. Oil level in the engine (see engine instructions)

## OIL LEVEL IN THE REDUCER

Lack of oil in the reducer will cause to much wearing and overheating. Heat is transmitted to the engine case and that could cause damage of reducer and also the engine.

Make the following control, according to the picture 2:

- Flange should be in the horizontal position when you set the tiller. (lean the tillers forwards)
- Loosen the screw pos.13 (picture 2)
- Check if the oil level is up to screw hole
- If the oil level is low, refill the oil up to lower level of the screw hole
- Put back the screw pos. 13



PICTURE 2

## LUBRICATION

For transmission lubrication, use the oil according to the table below. ( picture 3 ).

SAE	°C	°F	
40	30°	86°	SAE 10W-30 or 10W-40
30	15°	59°	
20 20W	0°	32°	
10W			

PICTURE 3

## 6. STARTING THE ENGINE

- When starting the engine, put the throttle lever to position “MAX” (picture 4).

## 7. STOPPING THE ENGINE (see engine instructions)

- When stopping the engine, put the throttle lever to position “STOP” (picture 4).



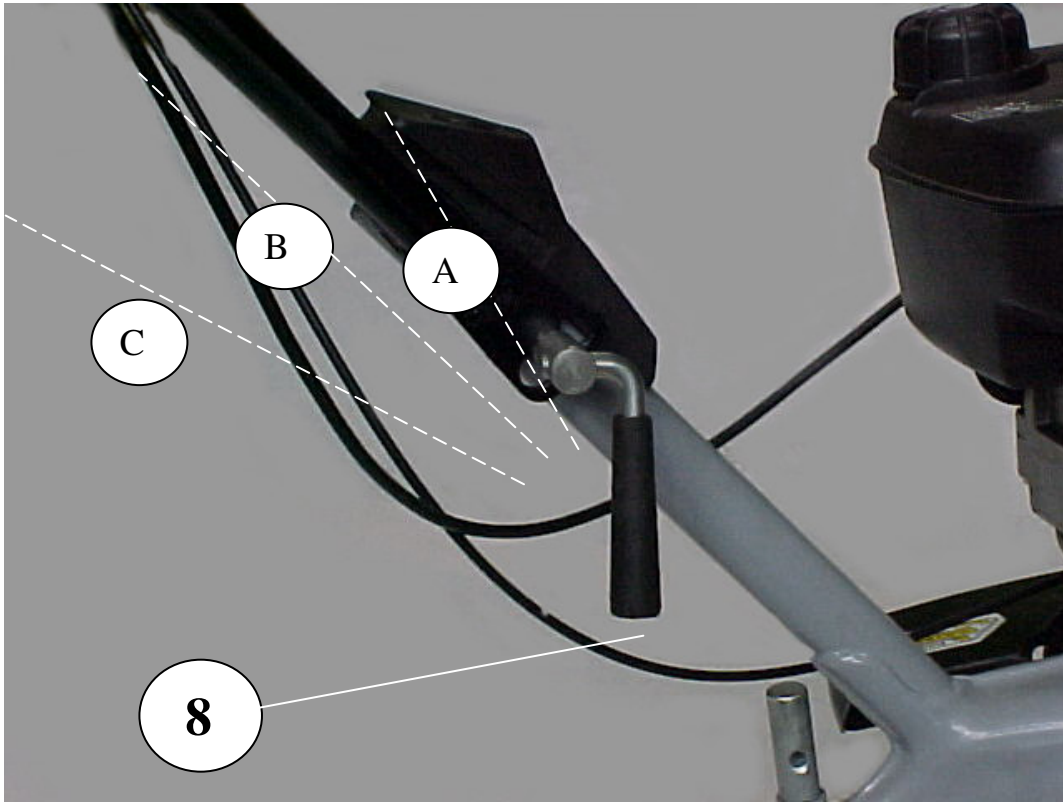
PICTURE 4

## 8. TILLER OPERATING INSTRUCTIONS

### 8.1 Adjusting the handle position

Handle height can be adjusted into three positions A, B and C depending on soil type and stature of the operator. To adjust handle height do the following according to picture 5.

1. Loosen the handle grip 8 and pull it for 1-1,5 cm, until the frame of the handlebar is free pos. 1 ( picture 1 )
2. Rotate frame of the handlebar around it's slot in inductor to required position with the mild pressure to the inductor.
3. Tighten the handle grip of the handlebar 8 (picture 5).

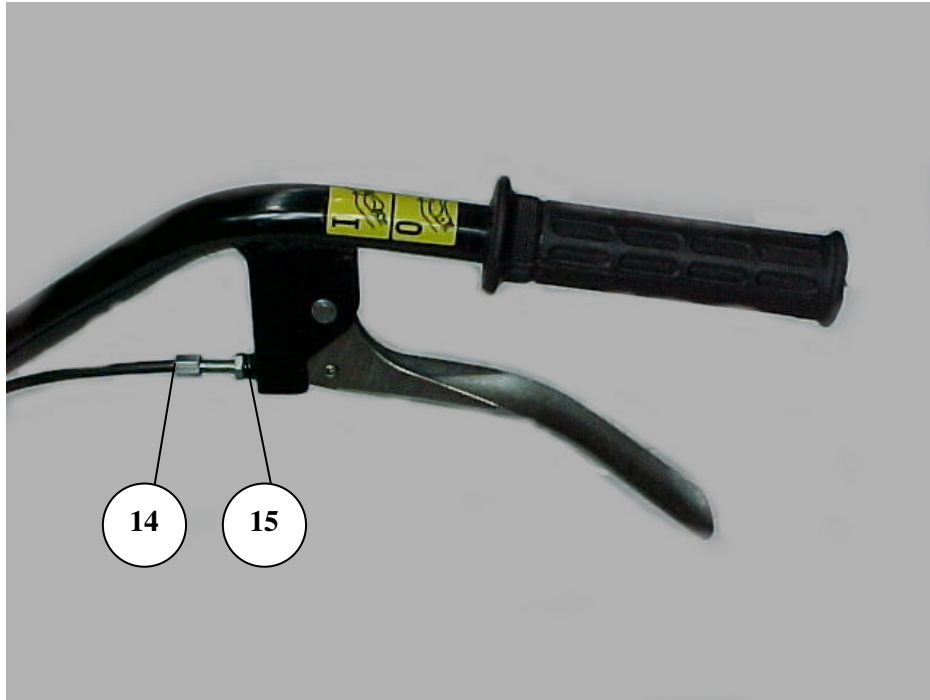
**PICTURE 5**

## 8.2. Clutch adjusting

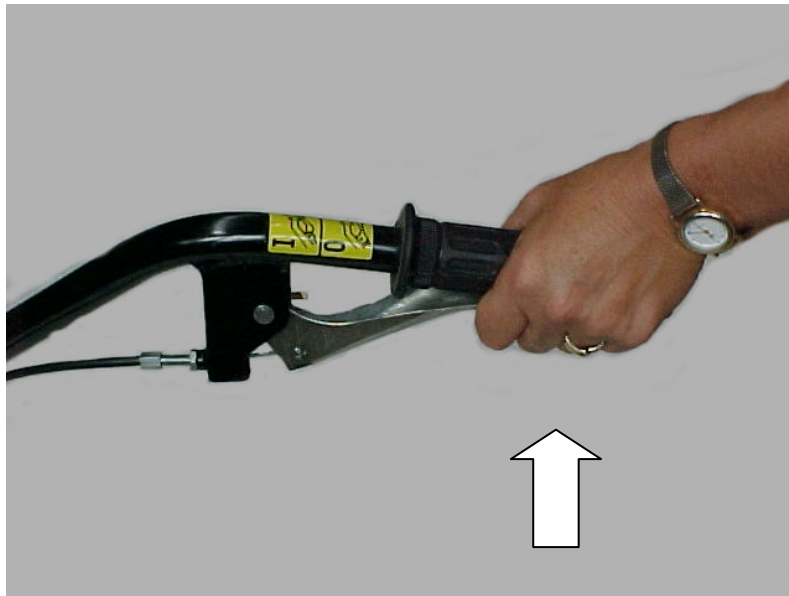
Clutch handle is anatomically shaped to suit, and not to tire, the operator during work. Clutch puts mulchers to work, that is exit shaft. To engage the clutch squeeze the clutch lever next to the handle bar. (picture 7).

When the clutch lever is released, work is disengaged and rotation of the exit shaft. (picture 6). Do the clutch adjusting with the screw 14 and nut 15.





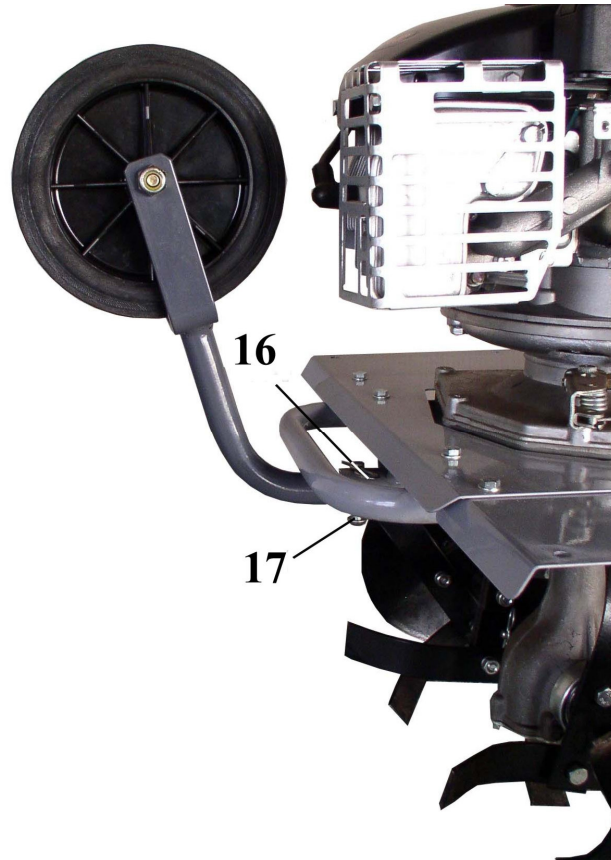
**PICTURE 6**



**PICTURE 7**

### 8.3. Transport wheel use

Use the transport wheel when transporting the power tiller, so the soil would not be damaged. Like on picture 8, transport wheel is engaged and disengaged with very simple rotation around the axis by protector 16 and bolt 17.



**PICTURE 8**

### 8.4. Using bar drag

Bar drag 9 (picture 1) is using in purpose creating of resistance of Power tiller movements . It have possibilities of adjusting on 3 depth.. Usually the largest depth i.e. bottom position is using for soft and mealy soil, and highest for hard soil.



To make adjustment please following instructions:

1. Plug out “beta” protector and bolt from inductor. Held handle bar with one arm.
2. When bar drag is free, with shift bar drag find appropriate bore for bolt
3. Bolt and beta protector return on there places.

## **WHEELS** – delivered at the request

Onto exit shafts it’s possible to mount the wheels. Put the wheels on the exit shaft instead of mulchers, and fix it with shaft and secure it with the wire protector.

We keep the right to change the information.

### **Not covered by guarantee:**

- **spark**
- **cable**
- **filters**
- **oil**



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