

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA T1600H. It is divided into two parts, "Mechanism" and "Disassembling and Servicing".

■ Mechanism

Information on the construction and function are included in this section. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

■ Disassembling and Servicing

The heading "General" includes general precautions, troubleshooting, servicing specification lists, check and maintenance and special tools. For each section, there are checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

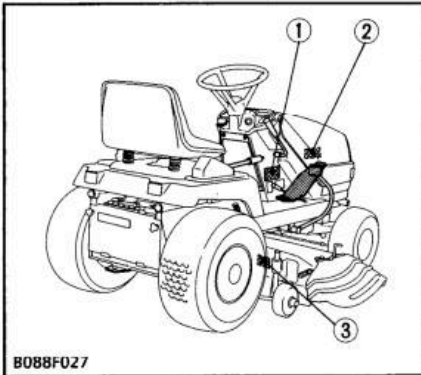
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Mar. '89

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GENERAL

[1] IDENTIFICATION



When contacting your local KUBOTA distributor, always specify engine serial number, vehicle serial number and mower serial number.

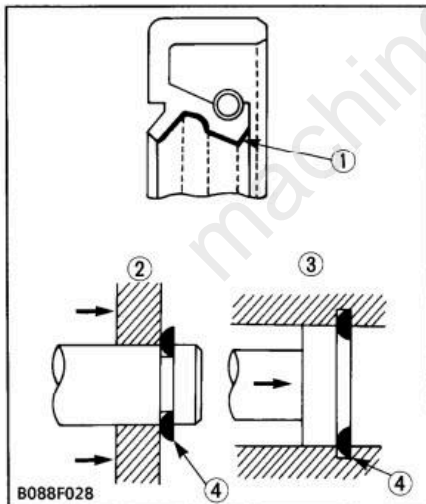
(1) Vehicle Serial No.
(2) Engine Serial No.

(3) Mower Serial No.

[2] GENERAL SAFETY

- Before servicing the machine, park the machine on a firm, level surface, set the parking brake, stop the engine and remove the key.
- Allow the machine to cool off before servicing the engine, muffler, etc.
- Do not smoke when working around the battery or when refuelling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosion hazard because it gives off hydrogen and oxygen—especially when recharging.
- To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable ⊖ first and connect it last.

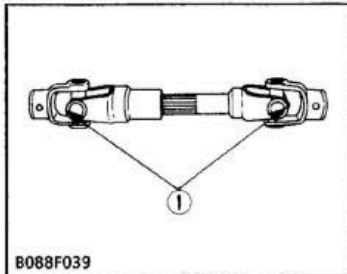
[3] GENERAL PRECAUTIONS



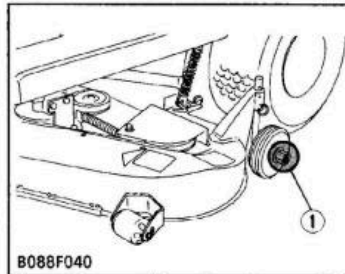
- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently used should be made according to the drawings provided.
- Before disassembling or servicing electrical wires, always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before measuring.
- Use only KUBOTA genuine parts for parts replacement to maintain tractor performance and to assure safety.
- Gaskets and O-rings must be replaced during reassembly. Apply grease to new O-rings or oil seals before assembling. See the figure.
- When reassembling external snap rings or internal snap rings, they must be positioned so that sharp edge faces against the direction from which a force is applied. See the figure.

(1) Grease
(2) External Snap Ring
(3) Internal Snap Ring
(4) Sharp Edge against the Direction of Force

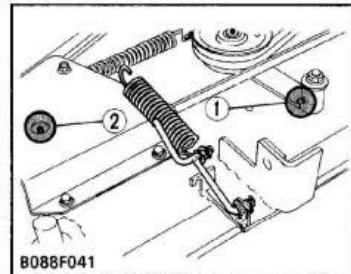
Greasing (Continued)



(1) Universal Joint

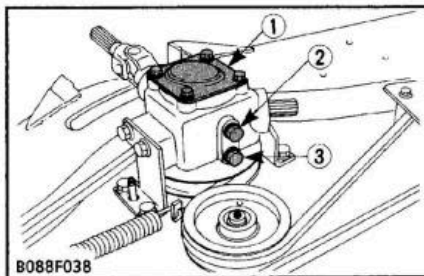


(1) Gauge Wheels



(1) Tension Pivot (2) Spindle Shaft (R.H., L.H.)

(3) Check Points of Initial 100 Hours



Changing Mower Gear Box Oil

1. Remove the lubrication cap (1) and drain plug (2) to drain oil.
2. Screw in the drain plug and refill the gear box with new oil. Refer to the "LUBRICANTS AND FUEL". (See page S-2)

(1) Lubrication Cap (2) Check Plug (3) Drain Plug

(4) Check Points of Every 100 Hours

Changing Engine Oil

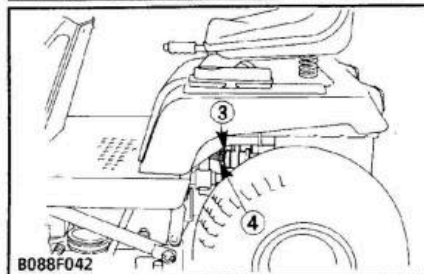
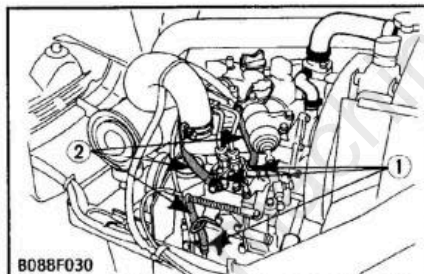
1. See page S-15.

Checking Fuel Line

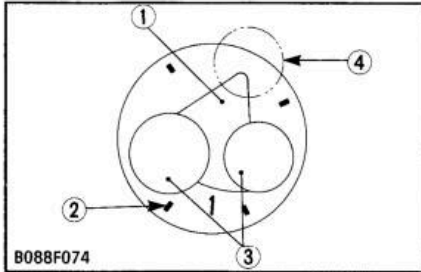
CAUTION

- Stop the engine when attempting to check the fuel line.
- Never fail to check the fuel line periodically. The fuel line is subject to wear and aging, fuel may leak out onto the running engine, causing a fire.

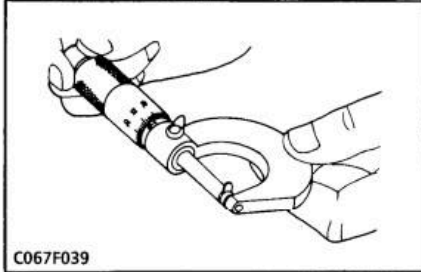
1. Check the fuel line.
2. If the clamp is loose, apply a slight coat of lubricant onto the threads and retighten it securely.
3. If the fuel pipe and clamp are found damaged or deteriorated, replace them.



(1) Pipe Clamps (2) Fuel Line (3) Pipe Clamps (4) Fuel Line



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Top Clearance

1. Remove the cylinder head and head gasket, and then clean the head surface.
2. Stick four strips of fuse dia. 1.5 mm, length 5 to 7 mm (0.20 to 0.28 in.) on the piston head with grease avoiding valve recess (3), fan-shaped depression (1) and cap portion (4) around the combustion chamber opening of the cylinder head.
3. Lower the piston and install the cylinder head and new head gasket, and tighten the screws to the specified torque.
4. Rotate the flywheel until the piston passes through the TDC.
5. Remove the cylinder head and measure the thickness of the fuses.
6. If the measurement is not within the factory specifications, check the oil clearance of the crank pin bearing and piston pin bearing (small end bushing).

NOTE

- Head gasket must be changed to new one.

| Top clearance | Factory spec. | 0.50 to 0.65 mm 0.0197 to 0.0256 in. |
|---------------|---------------|---|
|---------------|---------------|---|

(1) Fan-shaped Depression

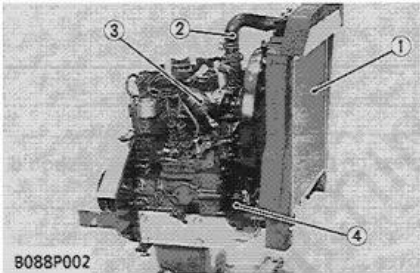
(3) Valve Recess

(2) Fuse

(4) Cap Portion

Fan Belt Tension

1. See page S-15.

DISASSEMBLING AND ASSEMBLING**(1) External Components**

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Radiator and Engine Stop Solenoid

1. Loosen the radiator hose band screws and separate the radiator (1) and radiator hose (2), (4) from the engine.
2. Remove the engine stop solenoid (3).

(When reassembling)

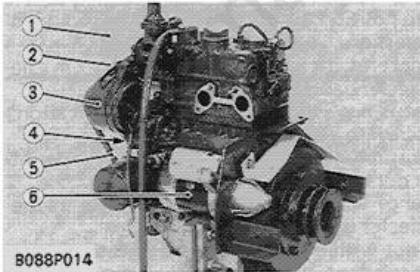
- Install the engine stop solenoid so that the plunger moves smoothly.

(1) Radiator

(3) Engine Stop Solenoid

(2) Radiator Hose

(4) Radiator Hose



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Starter, AC Dynamo, Fan Belt and Cooling Fan

1. Remove the starter (6).
2. Loosen the bolt (4) and remove the screw (2), then take out the fan belt (5).
3. Remove the AC dynamo (3).
4. Unscrew the retaining screws and remove the cooling fan (1) and fan pulley.

(When reassembling)

- Adjust the fan belt tension. (See page S-15)

(1) Cooling Fan

(4) Bolt

(2) Screw

(5) Fan Belt

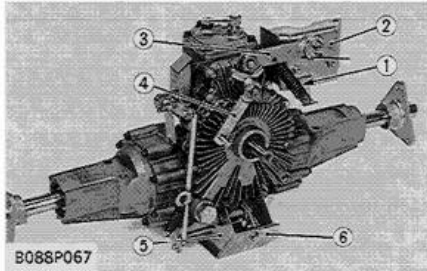
(3) AC Dynamo

(6) Starter

[Vehicle Serial No. : 50001 and Above]

■ NOTE

- Work in a clean area.
- Replace all seals whenever a transaxle is disassembled.
- Lubricate the new seals with petroleum jelly before installation.
- After disassembly, wash all parts inside the housing with clean solvent and blow the parts dry with air.
- Replace any damaged parts that could cause internal leakage.
- Do not use grit paper, files or grinders on finished surface.
- Use only clean, recommended hydraulic fluid on the finished surfaces at reassembly.



- (1) Spring
(2) Neutral Arm Holder
(3) Neutral Arm
(4) Speed Change Arm
(5) Brake Cover
(6) Guard

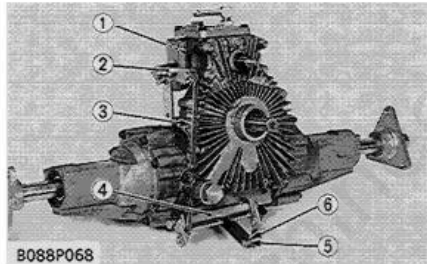
Neutral Arm Holder, Brake Arm and Guard

1. Unhook the spring (1), remove the neutral arm (3) and neutral arm holder (2) as a unit.
2. Remove the speed change arm (4).
3. Remove the guard (6) and brake cover (5).

(When reassembling)

- After reassembling, be sure to adjust the neutral. (See page S-50)

| | | |
|-------------------|---|---|
| Tightening torque | Neutral arm holder retaining screw | 12.7 to 15.7 N·m 1.3 to 1.6 kgf·m 9.4 to 11.6 ft·lbs |
| | Speed change arm retaining nut | 18.6 to 24.5 N·m 1.9 to 2.5 kgf·m 13.7 to 18.1 ft·lbs |
| | Brake cover retaining screw (Brake arm shaft retaining screw) | 12.7 to 15.7 N·m 1.3 to 1.6 kgf·m 9.4 to 11.6 ft·lbs |

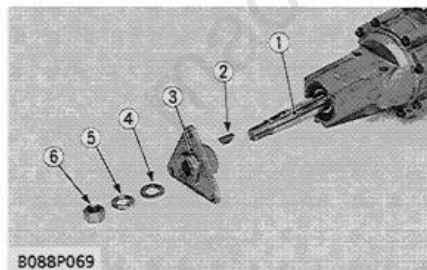


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Brake Fulcrum and Brake Arm Shaft

1. Unscrew the retaining screw (1).
2. Remove the cotter pin (5) and plain washer (6).
3. Remove the brake fulcrum (2), link (3), brake arm shaft (4) as a unit.

- (1) Retainin Screw
(2) Brake Fulcrum
(3) Link
(4) Brake Arm Shaft
(5) Cotter Pin
(6) Plain Washer



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Wheel Hub

1. Unscrew the retaining nut (6), spring washer (5) and plain washer (4).
2. Remove the wheel hub (3) with the puller.

(When reassembling)

- Be sure to install the key (2) on the axle shaft (1).

| | | |
|-------------------|-------------------------|--|
| Tightening torque | Wheel hub retaining nut | 118 to 147 N·m 12 to 15 kgf·m 87 to 108 ft·lbs |
|-------------------|-------------------------|--|

- (1) Axle Shaft
(2) Key
(3) Wheel Hub
(4) Plain Washer
(5) Spring Washer
(6) Retaining Nut

Full Version Available

Kubota T1600H Lawn Tractor Workshop Manual

This is a short preview. The complete manual contains all chapters, wiring diagrams, torque specifications and full service procedures.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/kubota-t1600h-lawn-tractor-workshop-manual/>