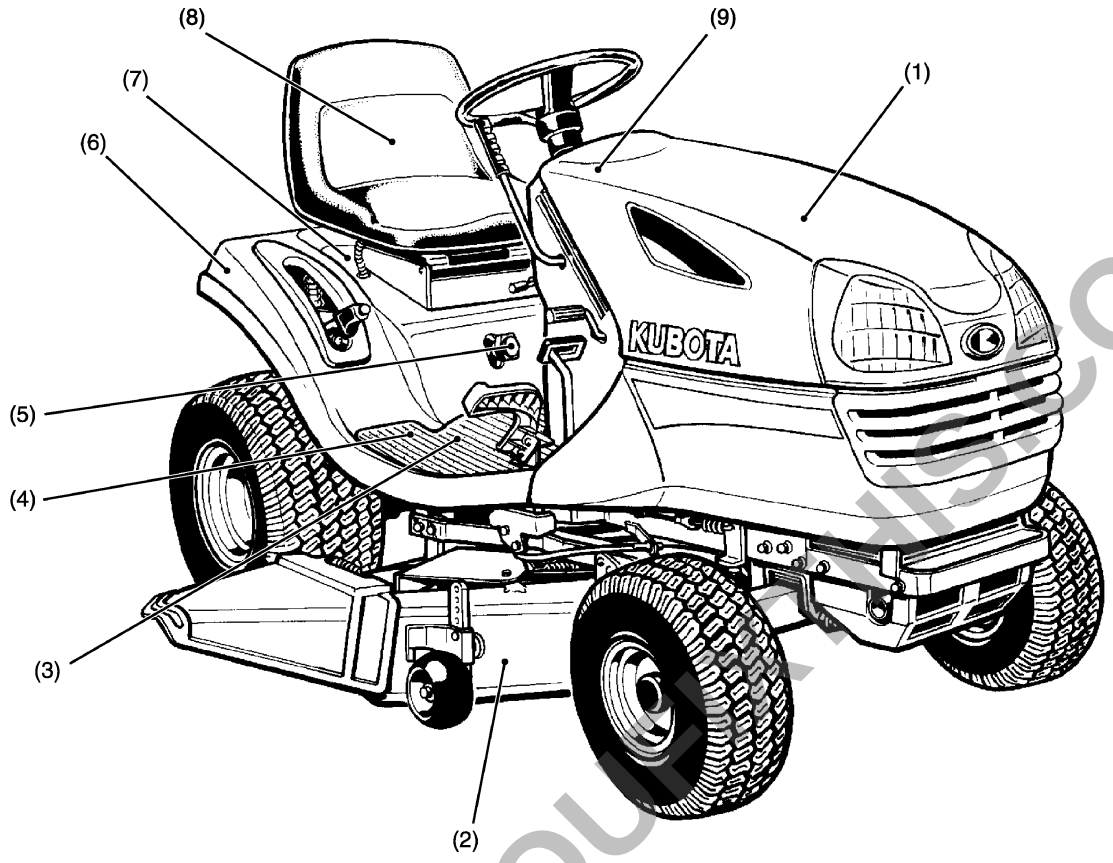
1. FEATURES

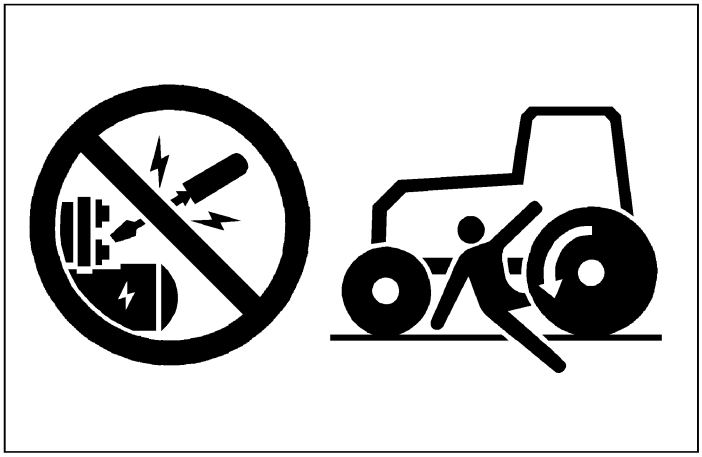


T15140GE00101

1. High powered OHV gasoline engine
2. Mid-mount mower decks
3. Smooth hydrostatic transmission
4. Full-flat operator's deck
5. Simple-dial type cutting adjustment
6. Fender suspension "Cushion Ride" system
7. Large fuel tank
8. Easy-adjust high-back seat
9. KRA (Kubota Reverse Awareness) system

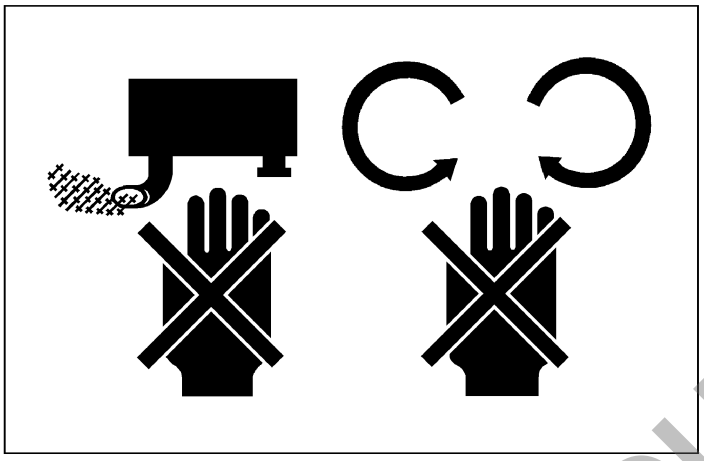
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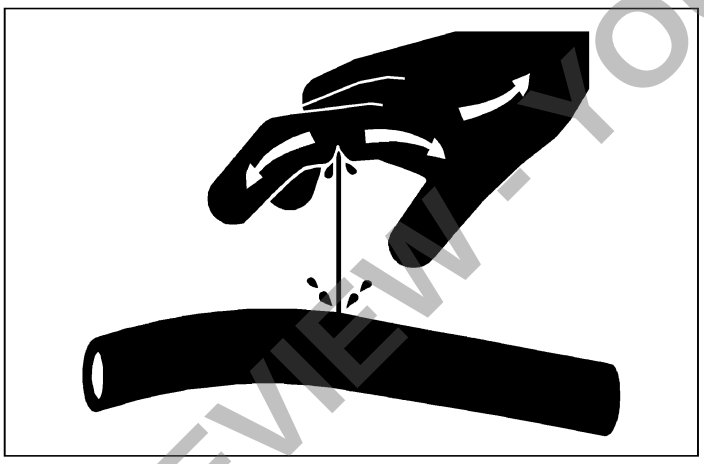
SAFETY STARTING

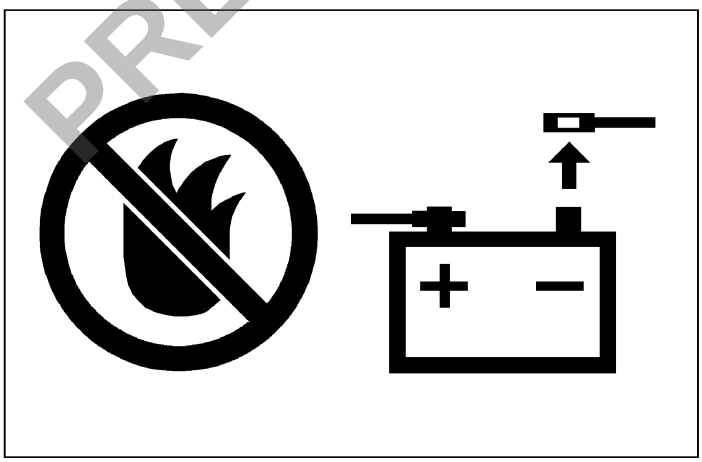
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.





AVOID FIRES

- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Mark sure that no fuel has been spilled on the engine.

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Model		T1570	T1670	T1770	T1870
Tire size	Front	15 × 6.00–6			
	Rear	18 × 9.50–8	20 × 10.00–8		
Steering system		Sector gear type			
Transmission		Hydrostatic transmission			
Brake		Disk type			
Traveling speed	Forward	0 to 9.0 km / h (0 to 5.6 mph)			
	Reverse	0 to 5.0 km / h (0 to 3.1 mph)			
PTO clutch		Belt tension			

W1034130

Model		T1570	T1670	T1770	T1870
Mower	Model	RCK40LTB	RCK44LTB		RCK48LT17B
	Overall length	835 mm (32.9 in.)	793 mm (31.2 in.)		863 mm (34.0 in.)
	Overall width	1320 mm (52.0 in.)	1444 mm (56.9 in.)		1544 mm (60.8 in.)
	Overall height	260 mm (10.2 in.)	271 mm (10.7 in.)		289 mm (11.4 in.)
	Mounting method	Parallel linkage			
	Adjustment of cutting height	Dial gauge			
	Cutting width	1016 mm (40 in.)	1118 mm (44 in.)		1219 mm (48 in.)
	Cutting height	25 to 102 mm (1.0 to 4.0 in.)			
	Number of blades	2	3		
	Weight (Approx.)	40 kg (88.2 lbs)	50 kg (110.2 lbs)		55 kg (121 lbs)
	Discharge	Right side			

W1036385

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7. MAINTENANCE CHECK LIST

No.	Items		Period	Indication on hour meter													Since then	Reference page		
				25	50	100	150	200	250	300	350	400	450	500	550	600				
1	Air cleaner (T1570 · T1670)	Precleaner element	Clean	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 25 Hrs	G-20	*1	
		Air cleaner element	Replace			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-29		
2	Air cleaner (T1770 · T1870)	Foam element	Clean	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 25 Hrs	G-20	*1	
		Paper element	Clean		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hrs	G-21	*1	
			Replace					☆				☆				☆	every 200 Hrs	G-31		
3	Belt tension		Adjust	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hrs	G-22	*2	
4	Brake		Check	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hrs	G-23	*2	
5	Greasing		–	★	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hrs	G-23		
7	Tire		Check		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hrs	G-17		
8	Engine oil		Change		★	☆		☆		☆		☆		☆		☆	every 100 Hrs	G-24		
9	Engine shroud		Clean			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-25		
10	Battery condition		Check			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-27		
11	Spark plug condition and gap		Check			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-26		
12	Fuel line		Check			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-27		@
			Replace														every 2 years	G-33		
13	Fuel filter		Check			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-27		
			Replace							☆						☆	every 300 Hrs	G-32	*2	@
14	Cable		Check Adjust			☆		☆		☆		☆		☆		☆	every 100 Hrs	G-27		
15	Engine oil filter		Replace		★			☆				☆				☆	every 200 Hrs	G-30 G-31		
16	Valve clearance [T1770 · T1870]		Check Readjust							☆						☆	every 300 Hrs	–	*2	
17	Solenoid shift starter		Clean											☆			every 500 Hrs or annually	11-S12	*2	
18	Fuse		Replace														Service as required	–		
19	Light bulb		Replace																	
20	Mower blade		Check Replace																	

■ **IMPORTANT**

★ : The maintenance indicated by ★ must be done initially.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

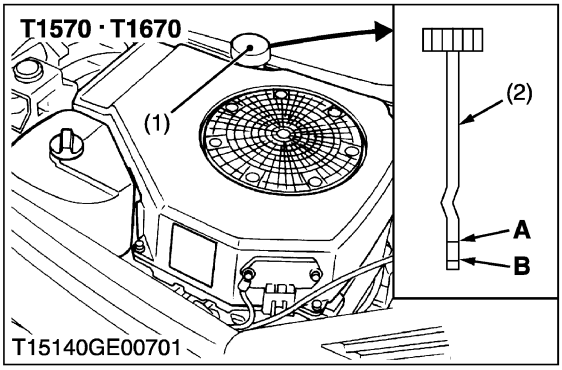
*2 Consult your local KUBOTA Dealer for this service.

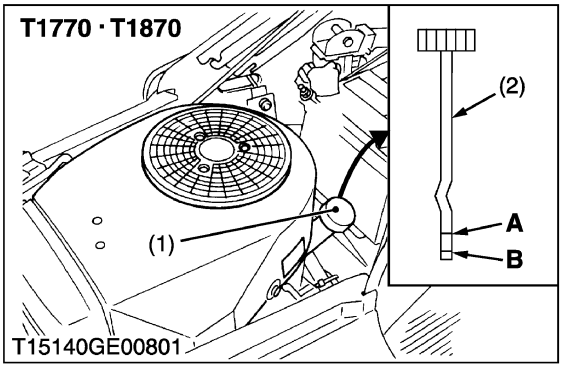
• The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction. Please see the Warranty Statement in detail.

W1019800

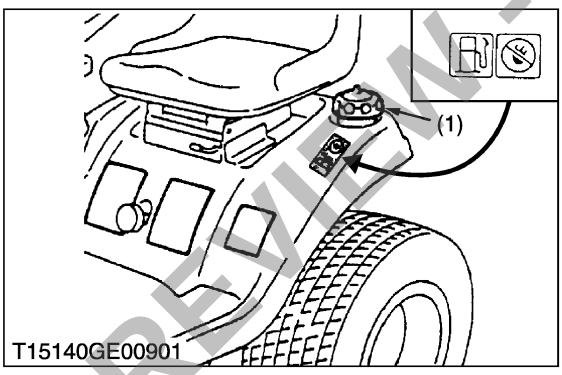
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Checking Engine Oil Level

CAUTION

- **To avoid personal injury : Always stop the engine and remove the key before checking oil.**

1. Check engine oil before starting and 5 minutes or more after the engine has stopped.
2. Wipe dipstick area clean.
3. To check the oil level, remove the dipstick (2), wipe it clean, replace it without screwing it in, and draw it out again. Check to see that the oil level is between the two marks.
4. Add new oil to the prescribed level at the engine oil port (1) if necessary.

■ **IMPORTANT**

- **Use the specified engine oil.**
  Refer to "FUEL AND LUBRICANTS". (See page PG-10.)
- **When using new oil of a different maker or viscosity from the previous one, drain all used oil.**
  Never mix two different types of oil.

(1) Engine Oil Port
(2) Dipstick
A: Upper Level
B: Lower Level

W1025974

Checking Amount of Fuel and Refueling

CAUTION

- **Handle fuel carefully. If the engine is running, do not fill the fuel tank. If engine is hot, let engine cool several minutes before adding fuel. Do not smoke while filling the fuel tank or servicing the fuel system. Fill fuel tank only to bottom of filler neck.**

1. Check the fuel level.
2. Take care that the fuel tank does not become empty.

Fuel tank capacity	T1570	11 L 2.9 U.S.gals. 2.4 Imp. gals.
	T1670 T1770 T1870	15 L 3.9 U.S.gals. 3.3 Imp. gals.

■ **IMPORTANT**

- **Use gasoline fuel only.**
- **Do not mix oil with gasoline.**

Unleaded fuel is recommended. Regular leaded gasoline with an octane rating index of 87 or higher may be used. Avoid switching from unleaded to regular gasoline to prevent engine damage.

[Use of alcohol mixed gasoline (Gasohol)]

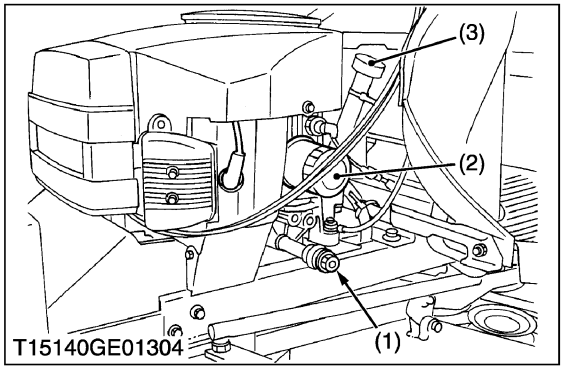
Use "gasohol" only when the ethanol additive is less than 10 % of the fuel. The use of methanol additive is not recommended. Warranty does not apply to mechanical or performance problems arising from the use of "gasohol". For best results use unleaded fuel with a minimum of 87 octane.

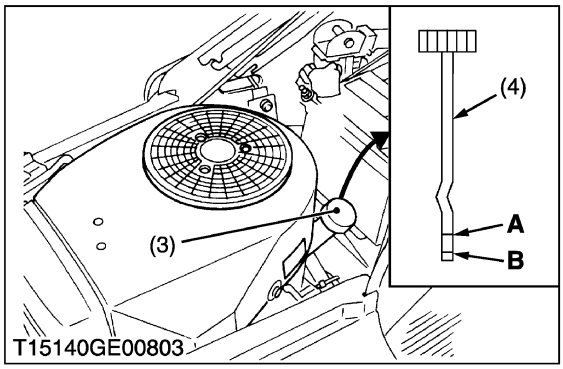
(1) Fuel Tank Cap

W1026221

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Changing Engine Oil Filter Cartridge [T1770 · T18fgt70]

WARNING

To avoid personal injury:

- **Engine oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.**

CAUTION

To avoid personal injury:

- **Be sure to stop the engine and remove the key before changing the oil and the oil filter cartridge.**
- **Allow engine to cool down sufficiently; oil can be hot and may cause burns.**

The oil filter cartridge must be changed every 200 service hours.

1. Rotate the engine oil filter cartridge (2) counterclockwise to remove it.
2. Coat a film of clean engine oil on seal of new filter.
3. Install new filter rotating it clockwise until seal contacts mounting surface. Then rotate filter 3/4 turn more by hand.
4. Supply engine oil as specified.
5. Run the engine for about 3 minutes, stop engine, and check oil leakage around the engine oil filter cartridge (2).
6. Add oil to compensate oil level down due to oil filter capacity.

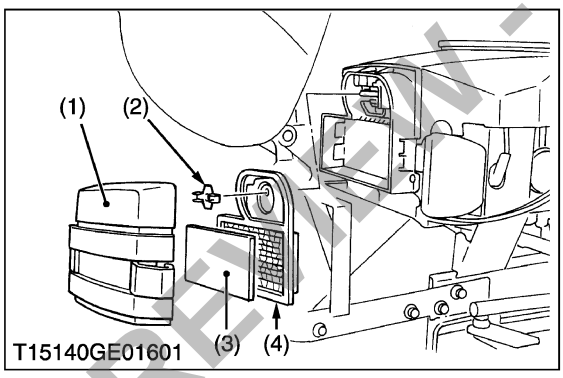
■ **IMPORTANT**

- **To prevent serious damage to the engine, replacement element of the recommended type must be used. Use only a genuine KUBOTA filter or its equivalent.**

(1) Drain Plug
(2) Engine Oil Filter Cartridge
(3) Engine Oil Port
(4) Oil Dipstick

A: Upper Level
B: Lower Level

W1032035



Replacing Air Cleaner Paper Element [T1770 · T1870]

1. Remove the air cleaner cover (1).
2. Remove the wing nut (2) and remove the paper-element (4).
3. Replace with new paper-element annually or 200 hours.

■ **NOTE**

- **Operating in dusty condition may require more frequent maintenance than above.**

■ **IMPORTANT**

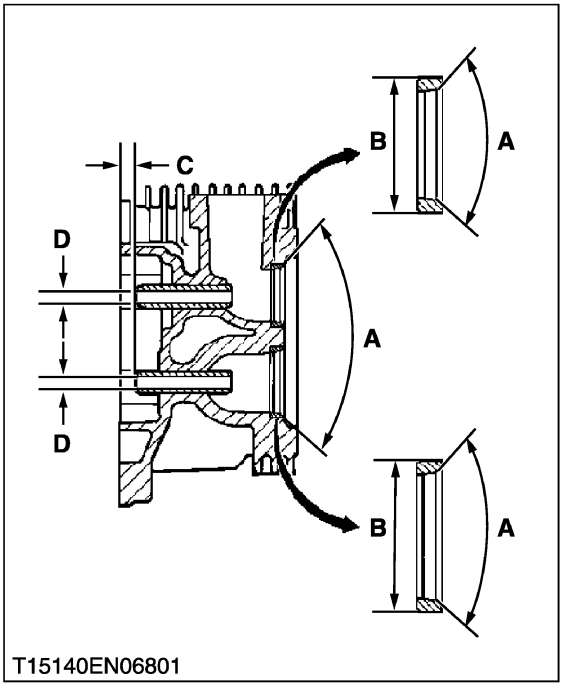
- **Do not wash paper-element. Do not oil paper-element. Do not use pressurized air to clean paper-element.**

(1) Air Cleaner Cover
(2) Wing Nut
(3) Foam-element
(4) Paper-element

W1032416

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T15140EN06801

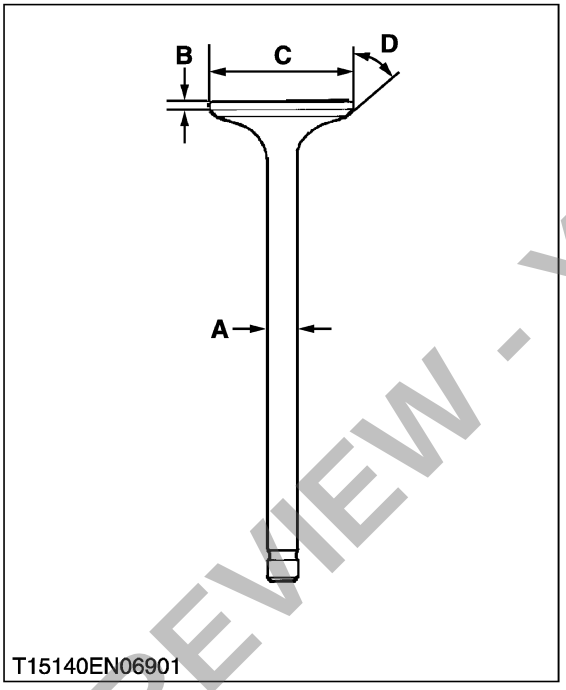
Cylinder Head Inspection

1. Check the dimensions.
2. If the measurement exceeds the allowable limit, replace the part.

Intake and exhaust seal angle	Factory spec.	89°
Intake insert O.D.	Factory spec.	37.987 to 38.013 mm 1.496 to 1.497 in.
Exhaust insert O.D.	Factory spec.	33.987 to 34.013 mm 1.338 to 1.339 in.
Intake and exhaust valve guide depth	Factory spec.	6.5 mm 0.256 in.
Intake and exhaust valve guide I.D.	Factory spec.	7.033 to 7.058 mm 0.277 to 0.278 in.
Intake valve guide I.D.	Allowable limit	7.134 mm 0.2809 in.
Exhaust valve guide O.D.	Allowable limit	7.159 mm 0.2819 in.

A : Seat Angle
B : Insert O.D.
C : Guide Depth
D : Guide I.D.

W1033031



T15140EN06901

Valve Stem O.D., Valve Head Diameter and Valve Face Angle

1. Measure the valve stem O.D. and valve head diameter with an outside micrometer.
2. If the measurement is less than the allowable limit, replace the valve.
3. Measure the valve margin and valve face angle.

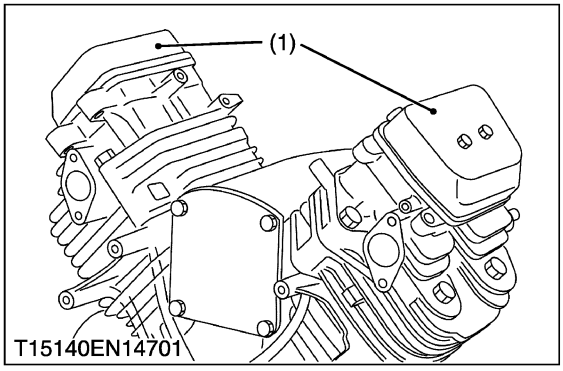
Intake valve O.D.	Factory spec.	6.982 to 7.000 mm 0.275 to 0.276 in.
Exhaust valve O.D.	Factory spec.	6.970 to 6.988 mm 0.274 to 0.275 in.
Intake and exhaust valve margin (min.)	Factory spec.	1.5 mm 0.059 in.
Intake valve head diameter	Factory spec.	35.37 to 35.63 mm 1.393 to 1.403 in.
Exhaust valve head diameter	Factory spec.	31.37 to 31.63 mm 1.235 to 1.245 in.
Intake and exhaust valve surface angle	Factory spec.	45°

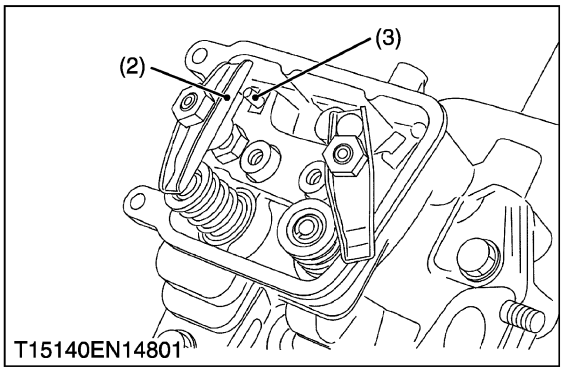
A: Valve Stem Diameter
B: Valve Margin
C: Valve Head Diameter
D: Valve Face Angle

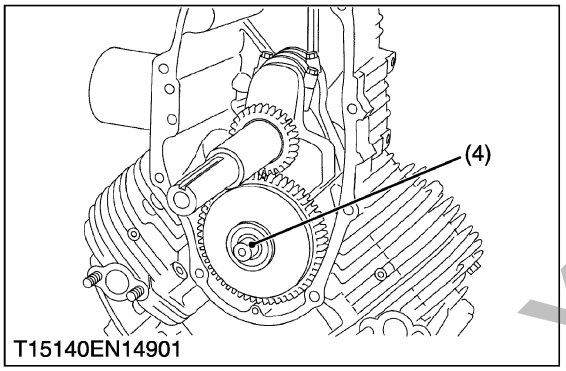
W1033608

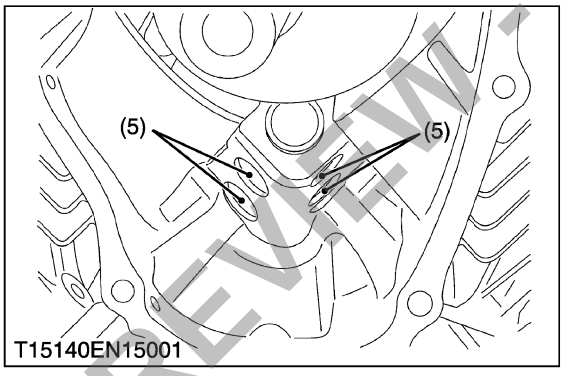
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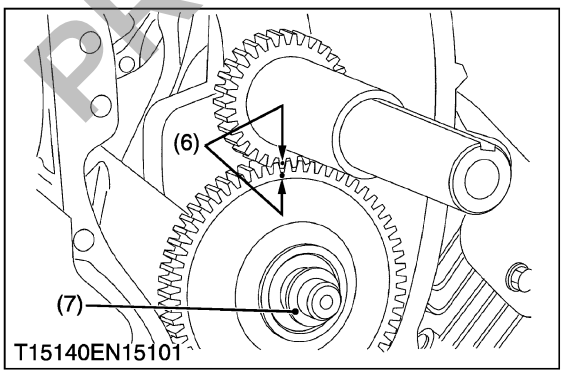
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Camshaft and Tappet

1. Set the engine on a clean surface while parts are being removed.
2. Drain the oil (see Lubrication System chapter).
3. Remove the muffler, throttle control panel, carburetor, intake manifold, crankcase cover and cylinder head covers (1).
4. Position the piston TDC at the end of the compression stroke.
5. Push down the spring side of the rocker arm (2) and move it to clear the push rod (3).
6. Remove the push rods and mark them so they can be installed in their original positions during assembly.
7. Turn the crankcase up side down so that the tappets will fall away from the cam lobes.
8. Pull the camshaft (4) out of the crankcase.
9. Remove the tappets (5) and mark them so they can be installed in their original positions during assembly.

(When reassembling)

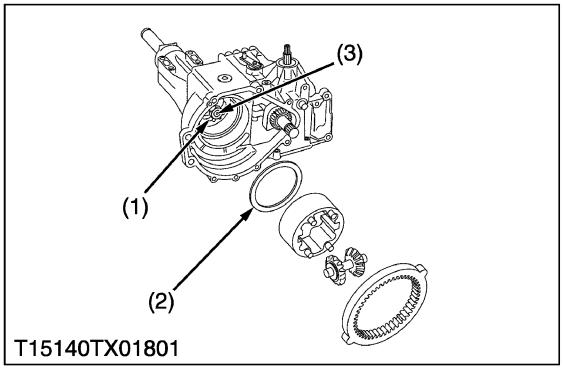
- Apply engine oil to the following.
  - Tappet Journal
  - Camshaft Journal
  - Cam Lobe Surface
  - Camshaft Gear
- Align the punch marks (6) on the crankshaft gear and camshaft gear.
- Install the shim (7) on the camshaft.

(1) Cylinder Head Cover
(2) Rocker Arm
(3) Push Rod
(4) Camshaft
(5) Tappet
(6) Punch Mark
(7) Shim

W1023171

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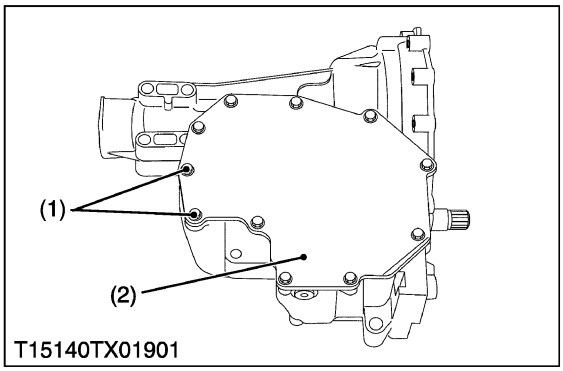
T15140TX01801

Axle Shaft (L.H.) Assembly

1. Remove the differential side gear (1), and differential thrust plate (2).
2. Pull out the axle shaft (L.H.) (3).
3. Remove the oil seal and ball bearing.

(1) Differential Side Gear
(2) Differential Thrust Plate
(3) Axle Shaft (L.H.) Assembly

W1013790



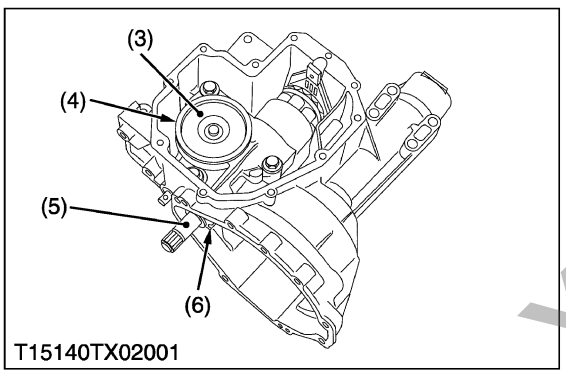
T15140TX01901

Oil Filter, Lower Cover and Motor Shaft Assembly

1. Using the appropriate tool (1/4” socket), remove the lower cover mounting screws (1).
2. Remove the lower cover (2).
3. Remove the oil filter (3) and charge manifold (4).
4. Remove the motor shaft assembly (5) from the center section.
5. Remove the external snap ring and 16T pinion gear (6).

(1) Lower Cover Mounting Screw
(2) Lower Cover
(3) Oil Filter
(4) Charge Manifold
(5) Motor Shaft Assembly
(6) 16T Pinion Gear

W1013922



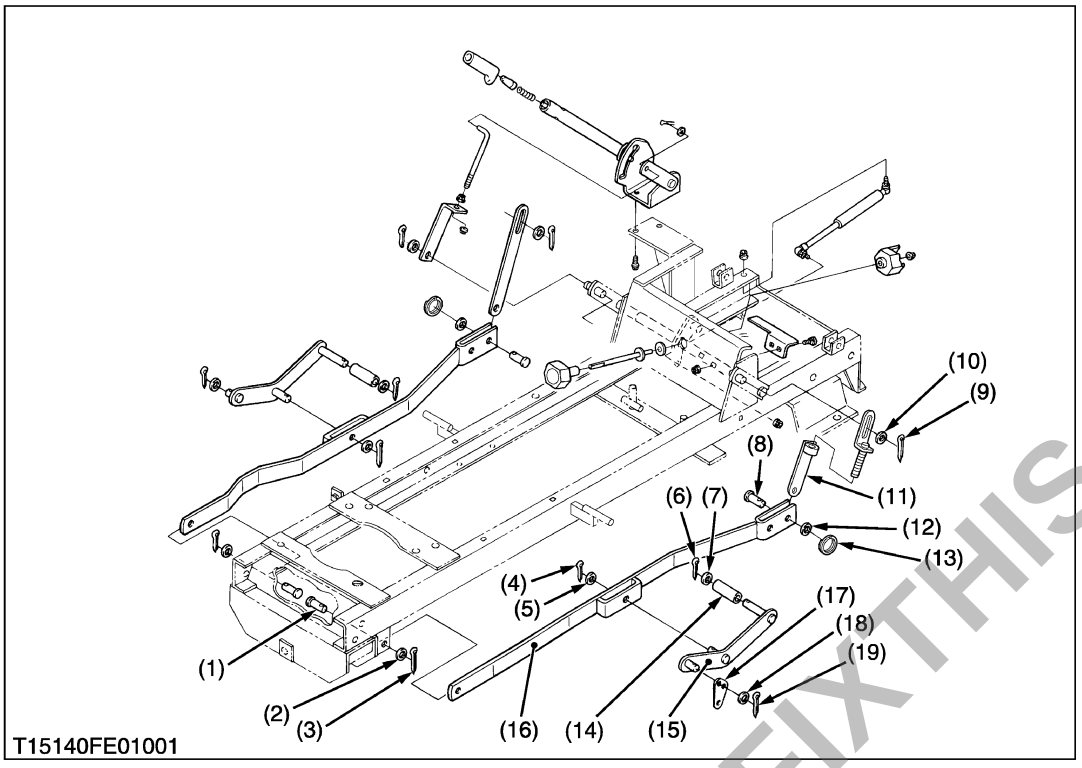
T15140TX02001

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(2) Lift Linkage

Link Assembly



T15140FE01001

(1) Clevis Pin
(2) Plain Washer
(3) Cotter Pin
(4) Cotter Pin
(5) Plain Washer
(6) Cotter Pin
(7) Plain Washer
(8) Clevis Pin
(9) Cotter Pin
(10) Plain Washer
(11) Link 2
(12) Plain Washer
(13) Rue Ring
(14) Collar
(15) Link 3
(16) Link 1
(17) Link 4
(18) Plain Washer
(19) Cotter Pin

W1014295

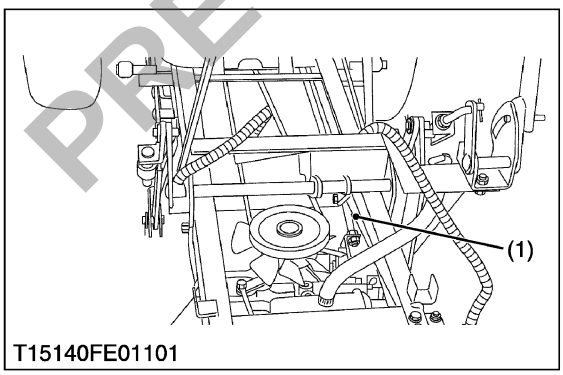
1. Pull out the cotter pins (3), and rue ring (13).
2. Remove the plain washers (2), (12) and clevis pins (1), (8), and then remove the link assembly (link 1, link 3, and link 4).
3. Pull out the cotter pin (4), and remove the plain washer (5) and link 3 (15) from the link 1 (16).
4. Pull out the cotter pin (19), and remove the plain washer (18) and link 4 (17) from the link 3 (15).
5. Pull out the cotter pin (9), and remove the plain washer (10) and link 2 (11).

(When reassembling)

- Apply grease to the collar (14).
- Be sure to pay attention to how to assemble the link 4.
- Be sure to pay attention to how to assemble the link 1.

W1013618

(3) Lift Lever



T15140FE01101

Gas Spring

1. Set the lift lever to "**LIFT**" position.
2. Unscrew the gas spring mounting nuts, and remove the gas spring (1).

(When reassembling)

- Before installing the gas springs, set the lift lever to **"LIFT"** position.

Tightening torque	Gas spring mounting nut	23.5 to 27.5 N·m 2.4 to 2.8 kgf·m 17.4 to 20.3 ft-lbs

(1) Gas Spring

W1014996

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MECHANISM

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1. WIRING DIAGRAM 10-M1
   [1] COLOR OF WIRING 10-M1
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2. KRA (Kubota Reverse Awareness) system (If Equipped) 10-M3

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