WSM

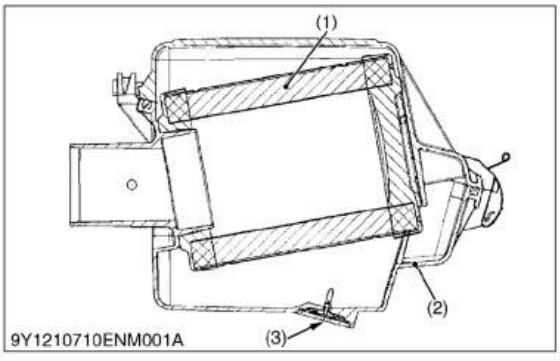
WORKSHOP MANUAL
UTILITY VEHICLE

RTV400Ci

Kubota

KiSC issued 08, 2019 A

[2] AIR CLEANER



1. The air cleaner is a dry-cyclone type.
   A high speed rotating air flow (cyclone) is used to remove the dust and can achieve high removal efficiencies.
2. The air that got sucked up swiftly turns around the filter element (1).
3. Larger and heavier dust in the air fall and accumulated into the bottom of the case (2) along the inner wall by centrifugation.
4. Fine dust is removed through the filter element (1).
5. After starting the engine, the pressure in the air cleaner case becomes negative.
   Due to this, the unloader valve (3) is aspirated, and the inside of the case is sealed.
6. When engine is not started, water in the case is discharged from the unloader valve (3).

(1) Filter Element
(2) Case
(3) Unloader Valve

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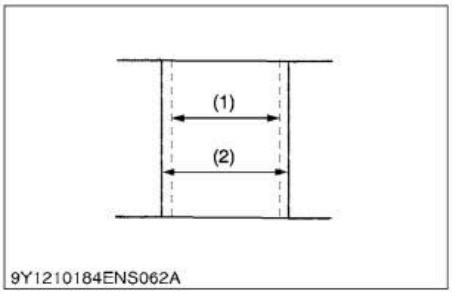
(3) Cylinder



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Correcting Cylinder (Oversize)

1. When the cylinder is worn beyond the allowable limit, bore and hone it to the specified dimension.

0.25 Oversize cylinder I.D.	Factory specification	89.250 to 89.272 mm 3.5050 to 3.5146 in.
0.50 Oversize cylinder I.D.	Factory specification	89.500 to 89.522 mm 3.5237 to 3.5244 in.

2. Replace the piston and piston rings with oversize ones. Oversize: 0.25 mm (0.0098 in.), 0.50 mm (0.020 in.)

■ **NOTE**

- **When the oversize cylinder is worn beyond the allowable limit, replace the cylinder block with a new one.**
- **After boring, roundness should be less than 0.01 mm (0.0004 in.).**
- **After boring, cylindricity should be less than 0.015 mm (0.0006 in.).**

(1) Cylinder I.D. (Before Correction) (2) Cylinder I.D. (Oversize)

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(4) Camshaft

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9Y1210710ENS0520A


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Cam Height

1. Measure the height of the cam at its height point with an outside micrometer.
2. If the measurement is less than allowable limit, replace the camshaft.

Cam heights of intake and exhaust	Factory specification	Intake	35.658 to 35.758 mm 1.4039 to 1.4077 in.
	Allowable limit		35.61 mm 1.4021 in.
	Factory specification	Exhaust	39.408 to 39.508 mm 1.5515 to 1.5554 in.
	Allowable limit		39.36 mm 1.550 in.

A: Intake **B: Exhaust**

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Camshaft and Camshaft Pin

1. Measure the camshaft pin O.D. with an outside micrometer.
2. Measure the camshaft I.D. with an internal dial gauge.
3. If the measurement exceeds the allowable limit, replace the camshaft pin or camshaft.

Camshaft I.D.	Factory specification	10.000 to 10.036 mm 0.39370 to 0.39511 in.
	Allowable limit	10.05 mm 0.3957 in.
Camshaft pin O.D.	Factory specification	9.953 to 9.975 mm 0.3919 to 0.3927 in.
	Allowable limit	9.95 mm 0.392 in.

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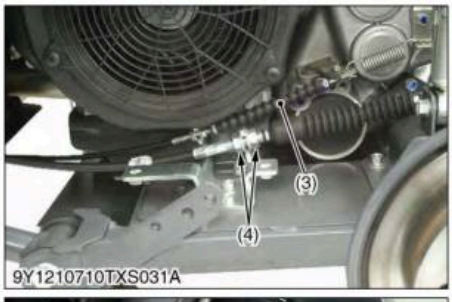

Checking Four Wheel Drive Lever Position (Adjustment of the 4WD Shift Cable Length)

CAUTION

- **When checking, park the machine on flat ground, and apply the parking brake.**
- **Work by 2 people when you checking and adjusting 4 wheel drive lever position.**

1. Place the stand under the left side of under frame by jack.
2. Remove the rear wheel LH.
3. Remove the blower cover (1).
4. Loosen the lock nut (4) at the rear side, and remove the 4WD shift cable (3).
5. Check that the cable is fixed to the lever support, with the cable outer section screw being set near the center.
6. Shift the 4WD shift arm (2) to the 2WD position.
7. Fix the 4WD lever (6) in the 2WD position.
8. Adjust the length of the 4WD shift cable outer section so that spring has no play, and the lock nut (5).

■ **NOTE**

- **Check that the cable moves smoothly.**

9. Keeping this condition, put the cable through the cable stay and adjust the length of the cable outer section while taking care not to move the 4WD lever (6). Then tighten the lock nuts (5) firmly.

Tightening torque	Rear wheel mounting screw	108.4 to 121.9 N·m 11.0 to 12.4 kgf·m 80 to 90 lbf·ft

(1) Blower Cover
(2) 4WD Shift Arm
(3) 4WD Shift Cable
(4) Lock Nut
(5) Lock Nut
(6) 4WD Lever

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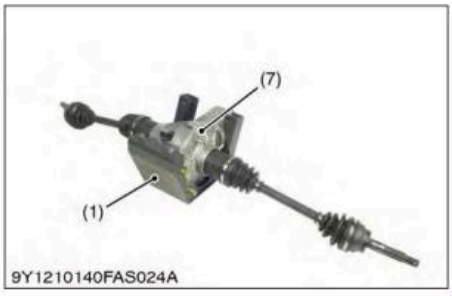
(3) Front Differential Case



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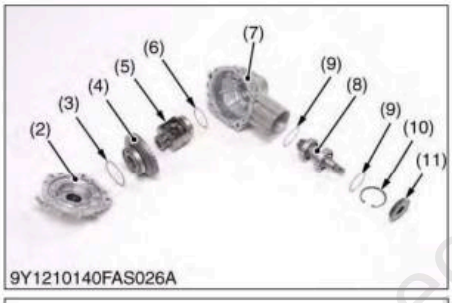

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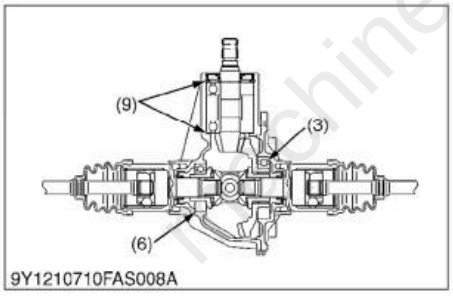

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Front Differential Assembly and Bevel Gear Shaft Assembly

1. Remove the differential case cover mounting screws and separate the front differential case cover (2).
2. Remove the differential gear assembly (5).
3. Remove the oil seal (11).
4. Remove the internal snap ring (10) and tap out the 8T bevel gear shaft assembly (8).

(When reassembling)

- Apply liquid gasket (Three Bond or equivalent) to the joint face of the front differential case cover (2) and the front case (7).
- Use same number of shims as before disassembling.
- Replace the oil seal (11) with new one.

(Reference)

Thickness of shim (RH) (Case side)	Factory specification	0.50 mm 0.020 in.
Thickness of shim (LH) (Case side)	Factory specification	0.60 mm 0.024 in.
Thickness of shim (Bevel pinion shaft side)	Factory specification	1.0 mm 0.039 in.

(1) Differential Protector
(2) Front Differential Case Cover
(3) Shim
(4) 35T Bevel Gear
(5) Differential Gear Assembly
(6) Shim
(7) Front Case
(8) 8T Bevel Gear Shaft Assembly
(9) Shim
(10) Internal Snap Ring
(11) Oil Seal

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Full Version Available

Kubota RTV400Ci Utility Vehicle Workshop Manual

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