WSM

WORKSHOP MANUAL
UTILITY VEHICLE

RTV400Ci

Kubota

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KiSC issued 02, 2012 A

INFORMATION

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1. SAFETY FIRST

⚠ SAFETY FIRST

- **This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.**
- **It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.**

⚠ DANGER
- **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

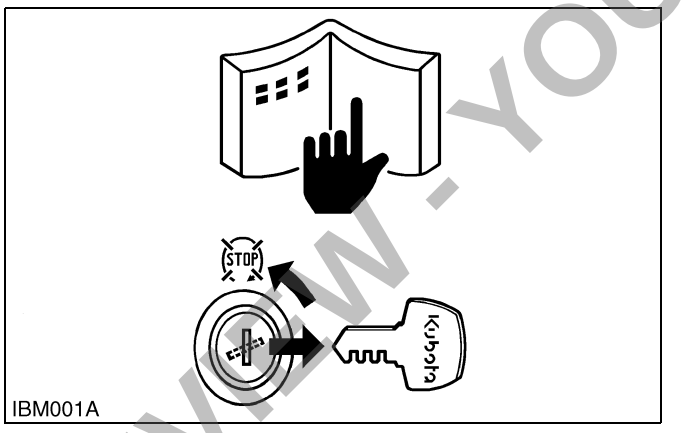
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

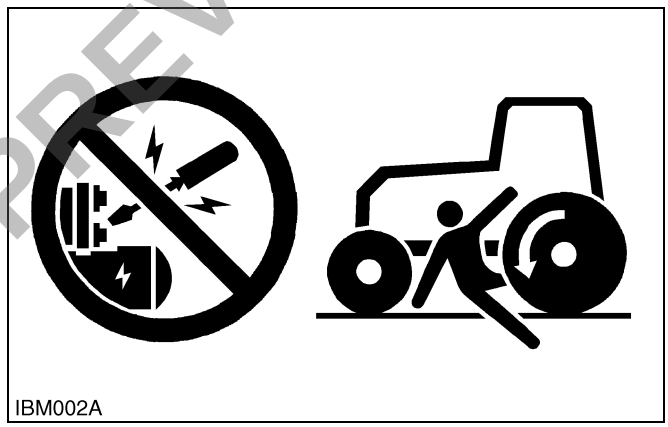
■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

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IBM001A


IBM002A

BEFORE YOU START SERVICE

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a stable and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in the operator station.

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START SAFELY

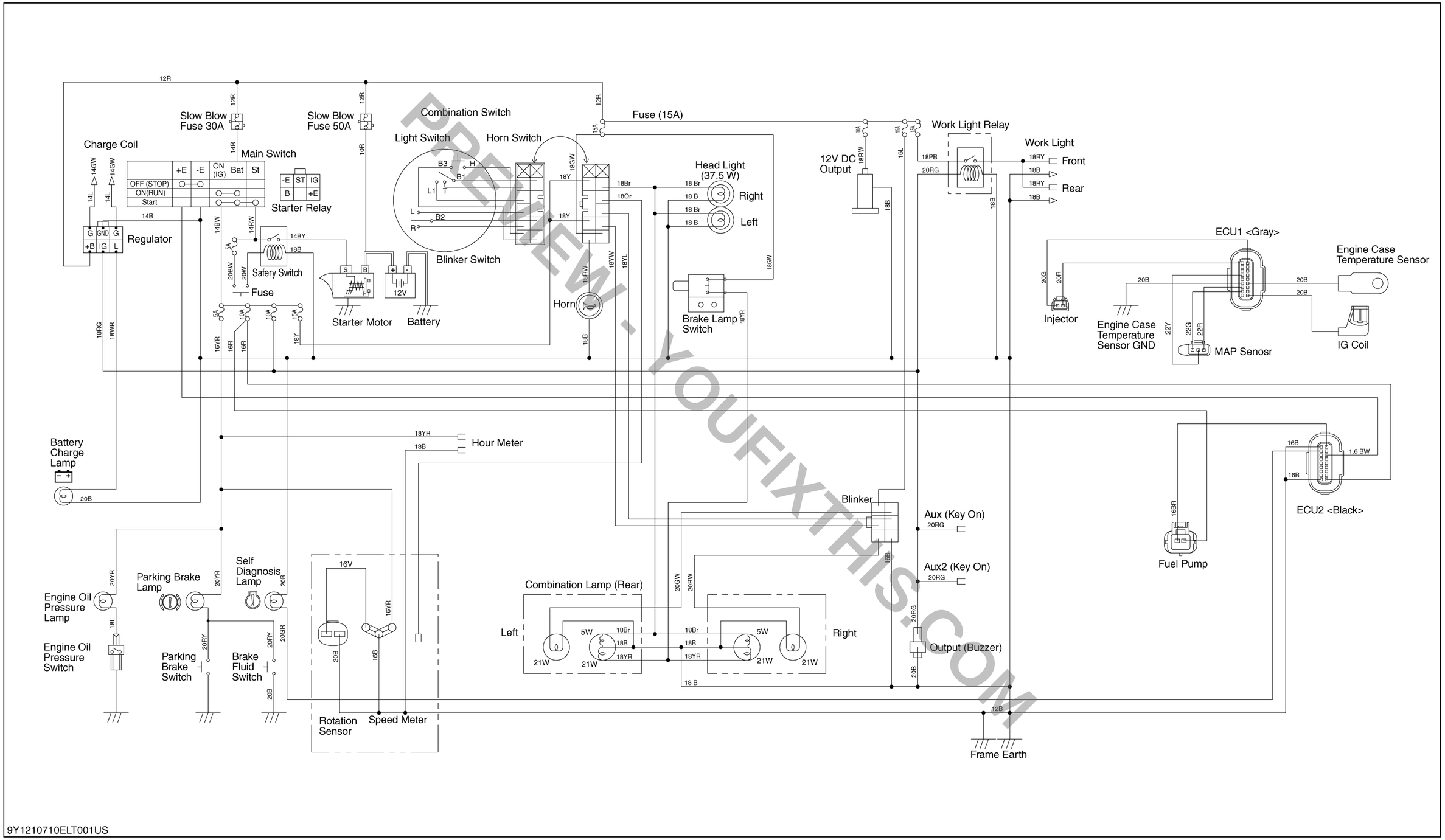
- Do not do the procedures below when you start the engine.
  - short across starter terminals
  - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Do not start the engine when you stay on the ground. Start the engine only from operator's seat.

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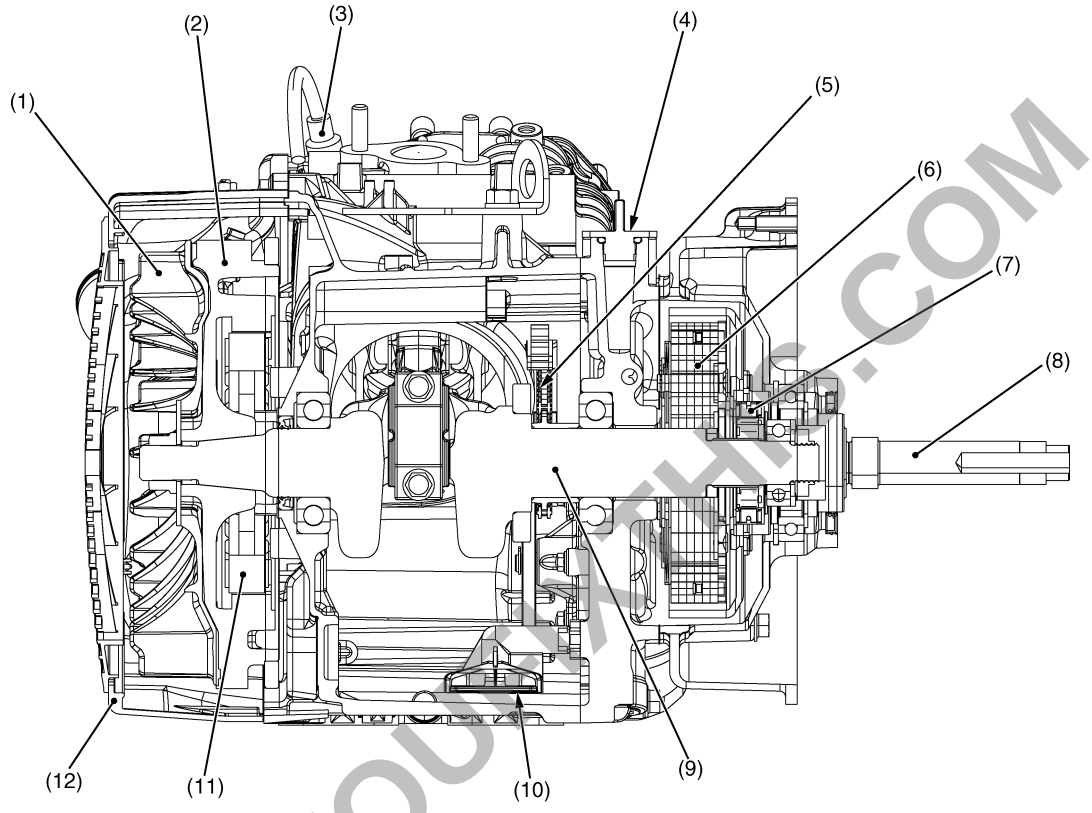
1. WIRING DIAGRAM



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1. STRUCTURE



9Y1210710ELM018A

(1) Cooling Blower
(2) Flywheel
(3) Spark Plug
(4) Oil FIlter
(5) Timing Chain
(6) Clutch Assembly
(7) One Way Clutch
(8) Clutch Shaft
(9) Crank Shaft
(10) Suction Pipe
(11) Charge Coil
(12) Blower Housing

The engine is composed of some parts as shown in the figure.
Sectional view from rear side.

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3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts: Refer to "5. TIGHTENING TORQUES" on page G-10.)

Item	N·m	kgf·m	lbf·ft
Rear wheel mounting screw	108.4 to 121.9	11.0 to 12.4	80 to 90
Governor link fixing bolt	10	1.0	7.4
Drain plug	20.0 to 23.0	2.04 to 2.34	14.8 to 16.9
Mission frame mounting reamer spring bolt (M12)	29.4 to 49.0	3.00 to 4.99	21.7 to 36.1
Mission frame mounting bolt and nut (M12)	77.4 to 90.2	7.90 to 9.19	57.1 to 66.5
Lateral rod screw	77.4 to 90.2	7.90 to 9.19	57.1 to 66.5
Shock absorber bolt and nut	48.0 to 55.9	4.90 to 5.70	35.4 to 41.2
Muffler base mounting screw	17.6 to 20.6	1.80 to 2.10	13.0 to 15.1
Muffler base bolt and nut	23.5 to 27.4	2.40 to 2.79	17.4 to 20.2
Muffler clamp bolt and nut	23.5 to 27.4	2.40 to 2.79	17.4 to 20.2
Exhaust pipe mounting nut	20	2.0	15
Muffler stay mounting screw	23.5 to 27.4	2.40 to 2.79	17.4 to 20.2
CVT cover mounting screw	7.0 to 9.0	0.72 to 0.91	5.2 to 6.6
Drive pulley mounting screw	100	10.2	73.8
CVT bracket mounting screw and nut	17.6 to 20.6	1.80 to 2.10	13.0 to15.1
Driven pulley nut	100	10.2	73.8
Mission stay mounting screw	39.2 to 44.1	4.00 to 4.49	29.0 to 32.5
CVT inside cover mounting screw	17.6 to 20.6	1.80 to 2.10	13.0 to 15.1
Engine mounting screw (M10)	48.0 to 55.9	4.90 to 5.70	35.4 to 41.2
Transaxle mounting screw (M8)	17.6 to 20.6	1.80 to 2.10	13.0 to 15.1
Transaxle mounting screw (M10)	48.0 to 55.9	4.90 to 5.70	35.4 to 41.2
Blower housing mounting screw	7.0 to 9.0	0.72 to 0.91	5.2 to 6.6
Clutch case assembly mounting screw	22.0 to 24.0	2.25 to 2.44	16.3 to 17.7
Cooling blower lock nut	100.0 to 120.0	10.20 to 12.23	73.76 to 88.50
Clutch lock nut	90.0 to 110	9.18 to 10.1	66.4 to 73.7
Ignition coil mounting screw	7.0 to 9.0	0.72 to 0.91	5.2 to 6.6
Wiring cover mounting screw	5.0 to 8.0	0.51 to 0.81	3.7 to 5.9
Charge coil mounting screw	5.0 to 8.0	0.51 to 0.81	3.7 to 5.9
Starter motor mounting screw	17.0 to 19.0	1.74 to 1.93	12.6 to 14.0
Starter motor stay mounting screw	5.0 to 8.0	0.51 to 0.81	3.7 to 5.9
Engine case temperature sensor mounting screw	5.0 to 8.0	0.51 to 0.81	3.7 to 5.9
Throttle body mounting nut	6.0 to 8.0	0.62 to 0.81	4.5 to 5.9
Head cover mounting screw	8.00 to 10.0	0.816 to 1.01	5.90 to 7.37
Buffle mounting screw	5.0 to 8.0	0.51 to 0.81	3.7 to 5.9
Spark plug	23.0 to 27.0	2.35 to 2.75	17.0 to 19.9
New spark plug	12.0 to 15.0	1.23 to 1.52	8.85 to 11.0
Main bearing cover mounting screw	22.0 to 24.0	2.25 to 2.44	16.3 to 17.7
Pump cover mounting screw	9.0 to 11.0	0.918 to 1.12	6.64 to 8.11
Oil strainer mounting screw	7.0 to 9.0	0.72 to 0.91	5.2 to 6.6

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Symptom	Probable Cause	Solution	Reference Page
High Fuel ConsumptionAbnormal Engine Noise	Clogged air cleaner	Clean or replace	G-26
	Low compression	Check and repair	1-S10
	Overcooling	Check and adjust load and / or engine speed	1-S14
	Loose ignition system wiring	Inspect and tighten	1-S31
	Improper or faulty spark plug	Clean or replace	1-S33
	Dirty or clogged fuel lines	Clean or replace	G-28, 1-S20
	Air mixing from air intake system joints	Tighten or replace gasket	1-S32
	Carbon deposit in combustion chamber	Clean	1-S36
	Leakage from cylinder head gasket	Replace	1-S36
	Improper valve clearance	Adjust	1-S12
	Valve seat deterioration	Replace	1-S36
	Worn or broken valve spring	Replace	1-S36
	Improper valve timing	Adjust	1-S35

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[2] ELECTRONIC CONTROL FUEL INJECTION

Symptom	Number of Blinking (Diagnostic lamp)	Probable Cause	Solution	Reference Page
Engine Does Not Start	1	Disconnection	Check the harness or injector	7-S18
	4		Check the harness or fuel pump	7-S20
	8		Check the harness or ignition coil	7-S21
Engine is Out of Condition in Light Load	5	Short circuit or disconnection	Check the harness or MAP sensor	7-S19
Engine is Out of Condition in Low or High Temperature	6	Short circuit or disconnection	Check the harness or engine case temperature sensor	7-S17, 7-S18

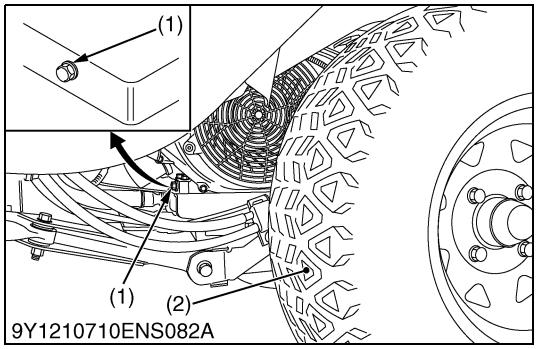
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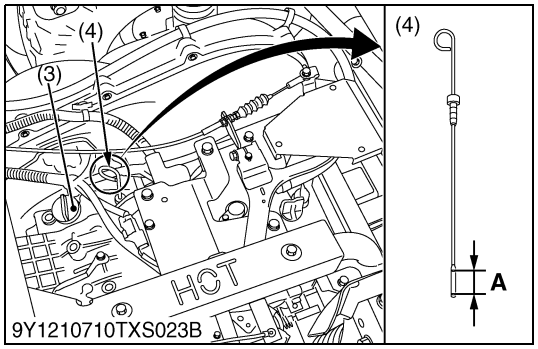
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[2] DISASSSEMBLING AND ASSEMBLING

(1) Dismounting Engine





Drain Engine Oil

CAUTION

To avoid personal injury:

- **Be sure to stop the engine before changing the oil.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. Park the vehicle on a flat surface and raise the cargo bed. Shut off the engine and remove the key.
2. To drain the used oil, remove the drain plug at the bottom of the engine completely drain the oil into an oil pan.
   All the used oil can be drained out easily when the engine is still warm.
3. After draining, reinstall the drain plug.

(When refilling)

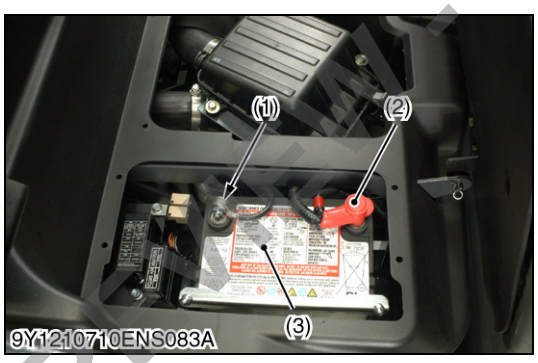
- Fill the new oil up to the upper notch on the dipstick.

Engine oil	Capacity (Filter exchanged)	1.6 L 1.7 U.S.qts 1.4 Imp.qts
	Capacity (Filter non-exchanged)	1.4 L 1.5 U.S.qts 1.2 Imp.qts
Tightening torque	Drain plug	20.0 to 23.0 N·m 2.04 to 2.34 kgf·m 14.8 to 16.9 lbf·ft

(1) Drain Plug
(2) Rear Wheel LH
(3) Oil Inlet
(4) Dipstick

A: Oil level is acceptable within this range

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Battery Cable

CAUTION

- **When disconnecting the battery cables, disconnect the negative cable from the battery first. When connecting, connect the positive cable to the battery first.**

1. Disconnect the negative cable (1) form the battery.
2. Disconnect the positive cable (2) from the battery.

(When reassembling)

- Connect the positive terminal avoiding the battery holder. As shown in the figure.

(1) Negative Cable
(2) Positive Cable
(3) Battery

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1. TROUBLESHOOTING

[1] ENGINE BODY

Symptom	Probable Cause	Solution	Reference Page
Starter Does Not Run	Insufficient battery capacity	Charge or replace	G-30
	Improper or imperfect wiring	Check the wiring	–
	Defective main switch	Repair or replace	7-S8
	Defective starter or contactor	Repair or replace	7-S22
Engine Starting Difficulties	Improper spark plug gap	Cleaning	G-33
	Spark plug Insulation defect	Replace	G-33
	Spark plug carbon deposits	Clean	G-33
	Ignition coil insulation defect or discontinuity	Replace	1-S31
	Ignition coil poor contact or broken wire	Repair or replace	1-S31
	Improper air gap between ignition coil and flywheel	Adjust	1-S31
	No fuel in fuel tank	Refill	G-8
	Fuel hose clogged or pinched	Clean or replace	G-28
	Air in fuel lines	Check and retighten joints	G-28
	Poor quality gasoline or water in gasoline	Replace	G-8
	Throttle valve malfunction (does not close fully)	Replace	1-S32
	Insufficient tightening of cylinder head bolts	Check and retighten	1-S36
	Wearing of piston, piston rings and/or cylinder	Repair or replace	1-S38, 1-S43
	Improper contact of valve and seat	Repair	1-S40, 1-S41
	Valve sticking	Repair	1-S36
	Improper valve clearance	Adjust	1-S12
	Leakage from adopter gasket	Retighten or replace gasket	1-S32
	Leakage from throttle body gasket	Retighten or replace gasket	1-S32
	Insufficient tightening of spark plug	Retighten	1-S33
Improper Low-speed Running and Idling	Improper spark plug	Repair or replace	1-S33
	Defective ignition coil	Replace	1-S31
	Defective throttle body	Replace	1-S32
	Fixing governor link	Adjust or cleaning	1-S13
Engine Speed Does Not Increase	Defective throttle body	Adjust or replace	1-S32
	Fixing governor link	Adjust or cleaning	1-S13
Improper High-Speed Running	Fixing governor link	Adjust or cleaning	1-S13

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3. SPECIFICATIONS

Model			RTV400Ci	
Engine	Model		SUBARU GH4120	
	Type		1 cylinder OHC, Air-cooled, EFI Gas	
	Displacement		0.404 L (24.7 cu. in.)	
Fuel Capacity			20 L (5.3 U.S.gals, 4.4 Imp.gals)	
Transmission			Continuously variable transmission (CVT)	
Wheels, Drive system			4, Rear 2WD or 4WD	
Differential lock			Standard; hand operated with mechanical holder	
Gear selection			Hi-Lo range forward, neutral, reverse	
Brakes	Front / Rear		Dry disk brake	
	Parking brake		Rear wheel, hand lever	
Steering			Rack and Pinion	
Suspension	Front		Independent, Mac Pherson strut-type	
	Rear		Semi-independent, Multi-link	
Dimensions	Length		2690 mm (105.9 in.)	
	Width		1390 mm (54.7 in.)	
	Height, overall		1829 mm (72 in.)	
	Front tread centers		1016 mm (40 in.)	
	Rear tread centers		1041 mm (41 in.)	
	Wheelbase		1800 mm (70.9 in.)	
	Ground clearance	front axle	205 mm (8.1 in.)	
		rear axle	175 mm (6.9 in.)	
	Turning diameter		7 m (22.9 ft.)	
Max. rolling weight (Towing Capacity)			Rear: 500 kg (1102 lbs) / Front: 250 kg (551 lbs)	
Payload capacity			480 kg (1058 lbs)	
Weight			565 kg (1246 lbs) with ATV Tires / 570 kg (1257 lbs) with HDWS Tires	
Cargo bed	Width		1032 mm (40.6 in.)	
	Length		856 mm (33.7 in.)	
	Depth		290 mm (11.4 in.)	
	Volume		0.25 m^3 (9 cu.ft.)	
	Bed height (unloaded)		810 mm (31.9 in.)	
	Max. cargo bed load		200 kg (441 lbs)	
Tires	Front		24 × 9-12 HDWS, 6PLY	24 × 9-12 ATV, 6PLY
	Rear		24 × 11-12 HDWS, 6PLY	24 × 11-12 ATV, 6PLY
Front deluxe guard			Option	
Body color			Orange / Camouflage	
Speedometer			Option	
Rear net			Option	

■ **NOTE**
- **The company reserves the right to change the specifications without notice.**
- **The values in "Ground clearance" and "Weight" are those of the machine equipped with the tires in the table above.**

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4. LUBRICANTS, FUEL AND COOLANT

No.	Place	Capacity	Lubricants
		RTV400Ci	
1	Fuel	20 L 5.3 U.S.gals 4.4 Imp.gals	• Automobile unleaded or regular gasoline • Unleaded gasoline 87 octane or higher • Gasohol (E10 or less)
2	Engine crankcase	[Filter exchanged] 1.6 L 1.7 U.S.qts 1.4 Imp.qts** [Filter non-exchanged] 1.4 L 1.5 U.S.qts.** 1.2 Imp.qts	**Engine oil:** API Service Classification SG, SH, SJ or higher • Above −18 °C (0 °F) SAE10W-30 • Below 0 °C (32 °F) SAE5W-20 or 5W-30
3	Transmission case	5.4 L 1.4 U.S.qts 1.2 Imp.qts	KUBOTA UDT or SUPER UDT-2 fluid*
4	Front axle case	0.21 L 0.22 U.S.qts 0.18 Imp.qts	KUBOTA UDT or SUPER UDT-2 fluid*
5	Brake fluid (reservoir and lines)	0.2 L 0.21 U.S.qts 0.18 Imp.qts	KUBOTA **DOT3** GENUINE BRAKE FLUID

Greasing				
No.	**Place**	**No. of greasing point**	**Capacity**	**Type of grease**
6	Battery terminal	2	Moderate amount	Spray Type Grease
	Cargo bed pivot	2		
	Parking brake pivot	2		
	Range gear shift lever pivot	1		
	4WD lever pivot	1		
	Differential lock lever	1		

■ **NOTE**
- ***KUBOTA UDT or SUPER UDT-2 fluid: KUBOTA original transmission hydraulic fluid**
- ****Oil amount when the oil level is at the upper level of the oil level gauge.**

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6. MAINTENANCE CHECK LIST

CAUTION

To avoid personal injury and vehicle damage:

- **Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.**

IMPORTANT

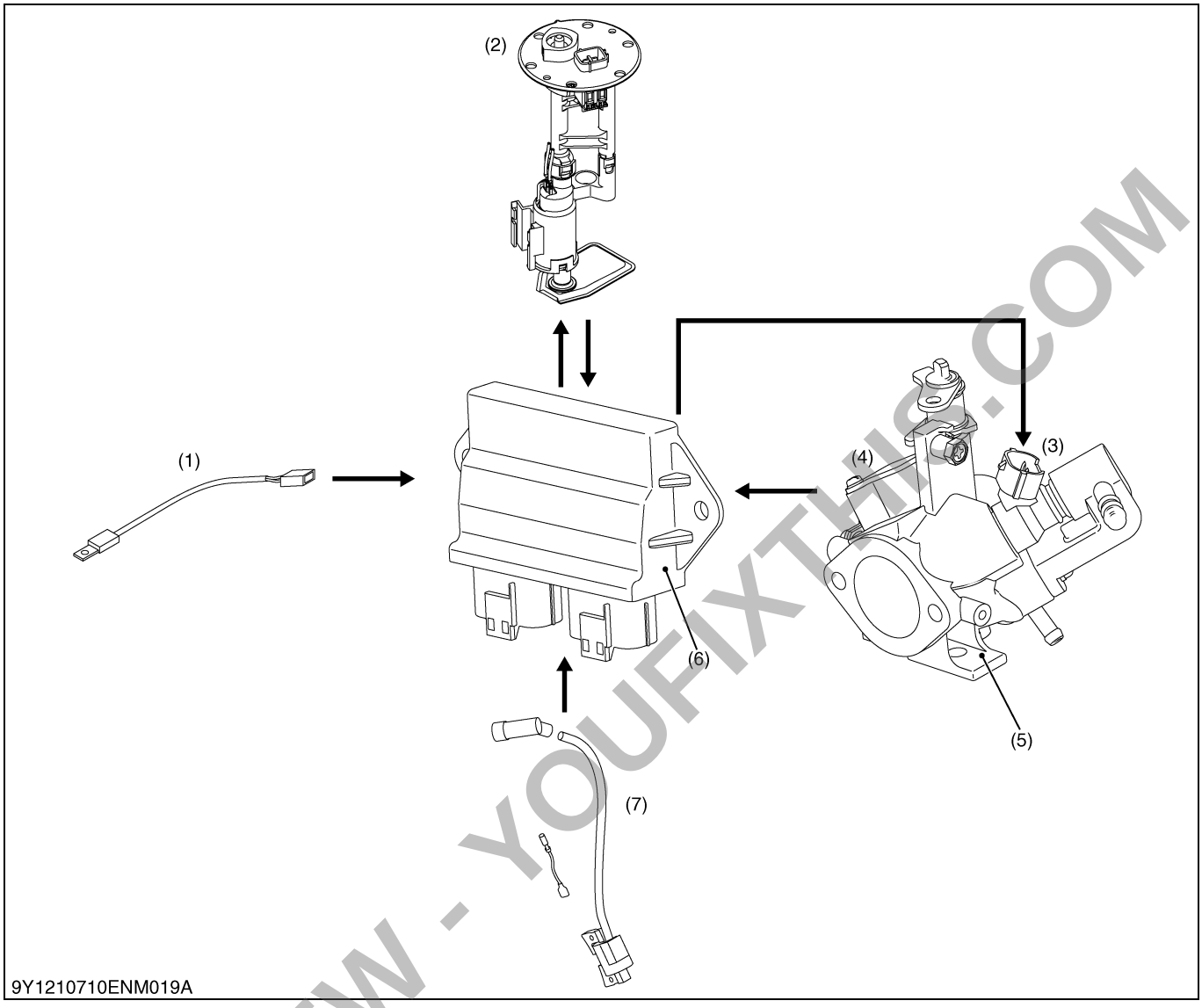
- **The jobs indicated ● by must be done after the first 50 hours of operation.**
- **Changing engine oil and engine oil filter indicated ☆ by must be done after the first 20 hours of operation.**
  ***1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.**
  ***2 Every year or every 6 times of cleaning.**
  ***3 Replace only if necessary.**
  ***4 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.**
- **GASOLINE ENGINE EMISSION RELATED MAINTENANCE INSTRUCTIONS:**
  1. Non-warranty maintenance, repair, or replacement of the emission control devices and systems should be performed by a qualified repair establishment or individual which has the experience and equipment to perform such work.
  See the Emissions Warranty Statement.
  2. To ensure the best quality and reliability, use new KUBOTA Genuine parts or their equivalents for repair and replacement, whenever you have maintenance done.

No.	Item		Indication of Hour Meter															After 700 hrs	Reference page	
			20	50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Greasing	Apply		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs	G-25	
2	Engine start system	Check		❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs	G-26	
3	Wheel bolt torque	Check		●	❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-26	
4	Air cleaner element (Engine)	Clean			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-26	*1
		Replace																every 1 year	G-40	*2
5	Air cleaner element (CVT)	Clean			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-27	*1
		Replace																every 1 year	G-40	*2
6	Fuel line	Check			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-28	
		Replace																every 2 years	G-41	
7	Carbon canister air filter	Check			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-29	*3
8	Battery condition	Check			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-30	*4
9	Toe-in	Adjust			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-31	
10	Spark arrester	Clean			❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-31	
11	Parking brake lever	Adjust		●			❍				❍				❍			every 200 hrs	G-34	
12	Engine oil filter	Replace	☆				❍				❍				❍			every 200 hrs	G-34	
13	Engine oil	Change	☆		❍		❍		❍		❍		❍		❍		❍	every 100 hrs	G-32	
14	Engine cooling air inlet and engine cooling fin	Check					❍				❍				❍			every 200 hrs	G-35	
15	CVT belt	Check		●			❍				❍				❍			every 200 hrs	G-36	
16	Transmission oil	Change									❍							every 400 hrs	G-40	

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3. FUEL SYSTEM



(1) Engine Case Temperature Sensor
(2) Fuel Pump
(3) Injector
(4) MAP Sensor
(5) Throttle Body
(6) ECU
(7) Ignition Coil

This engine is equipped with Electronic Fuel Injection system (FI system) integrated with ECU (Engine Control Unit).

The FI system consists of throttle body, ECU, MAP (Manifold Absolute Pressure) sensor, injector, engine case temperature sensor and electric fuel pump.

Fuel in the fuel tank is compressed by fuel pump, and the fuel is provided to the throttle body.

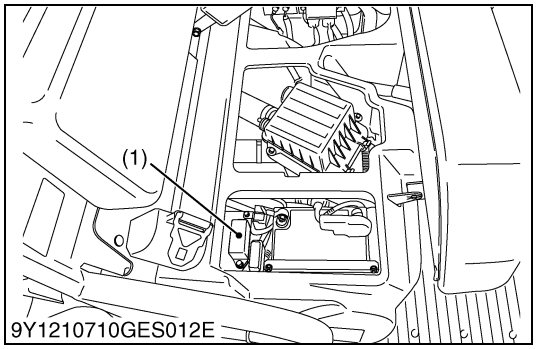
Fuel that goes into the throttle body is sprayed just at the right time and appropriate quantities by the injector controlled by ECU, and then the sprayed fuel is delivered to the intake manifold while being mixed with air.

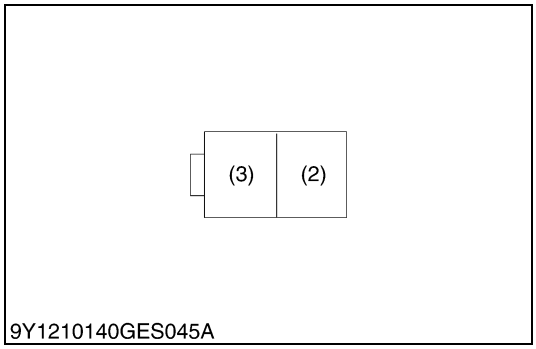
ECU is controlled by the signal of MAP sensor, engine case temperature sensor, and ignition coil.

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Replacing Slow Blow Fuses

The slow blow fuses are intended to protect the electrical cabling. If any of them have blown out, be sure to pinpoint the causes. Never use any substitute, use only a KUBOTA genuine part.

■ **Replacement procedure**

1. Disconnect the negative cable of the battery.
2. Remove the cover and the slow blow fuse box cover.
3. Pull out the slow blow fuse.
4. Insert a new slow blow fuse into the slow blow fuse box.
5. Install the slow blow fuse box cover and the cover.
6. Connect the negative battery cable.

■ **Protected circuit**

Fuse No.	Capacity (A)	Protected circuit
(2)	Slow-blow fuse (30)	Key switch
(3)	Slow-blow fuse (50)	Regulator

(1) Slow Blow Fuse Box

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Replacing Light Bulb

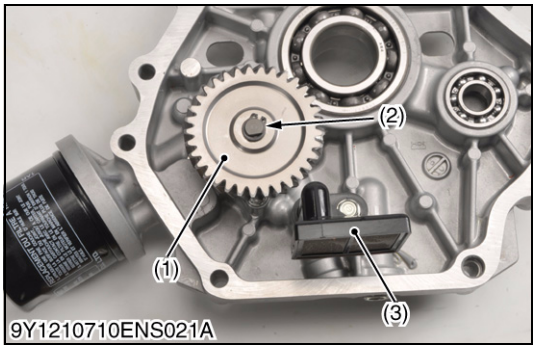
1. Head lights:
   Take the bulb out of the light body and replace it with a new one.
2. Other lights:
   Detach the lens and replace the bulb.

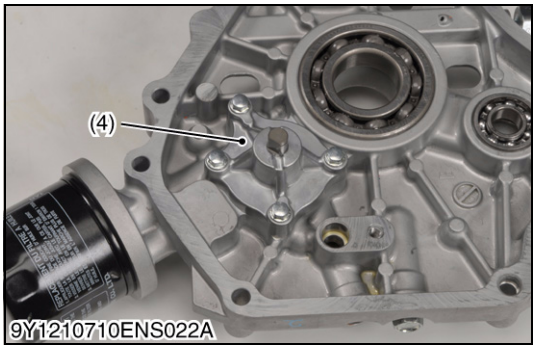
Light	Capacity
Head lights	27 W
Tail light	5 W
Brake light	21 W
Easy Checker™	3.8 W (14 V, 0.27 A)
Engine diagnostic light [LED] of Easy Checker™	0.25 W (14 V, 18 mA)
Instrument panel light	3.8 W (14 V, 0.27 A)

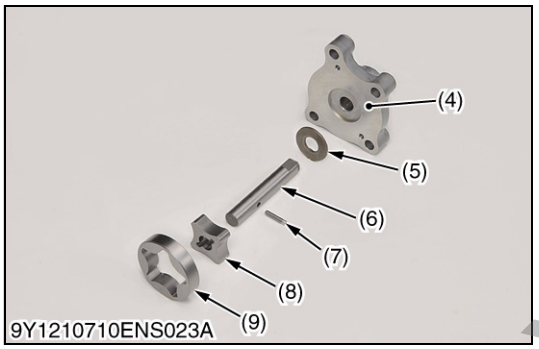
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Oil Pump

1. Remove the oil strainer (3) and remove the pump gear (1).
2. Remove the pump cover (4).
3. Remove the spacer (5), pump shaft (6) and pin (7).
4. Remove the inner rotor (8) and outer rotor (9).

(When reassembling)

- Apply to engine oil each parts.
- Make sure to install the external snap ring (2) to the pump shaft groove.

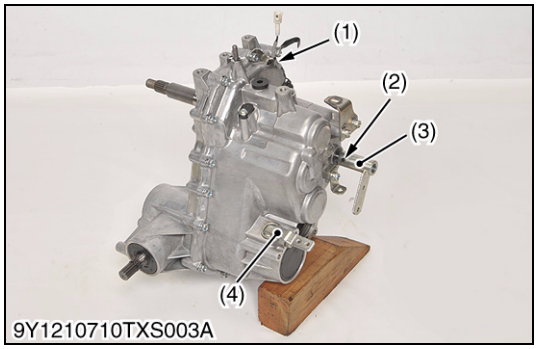
Tightening torque	Pump cover mounting screw	9.0 to 11.0 N·m 0.918 to 1.12 kgf·m 6.64 to 8.11 lbf·ft
	Oil strainer mounting screw	7.0 to 9.0 N·m 0.72 to 0.91 kgf·m 5.2 to 6.6 lbf·ft

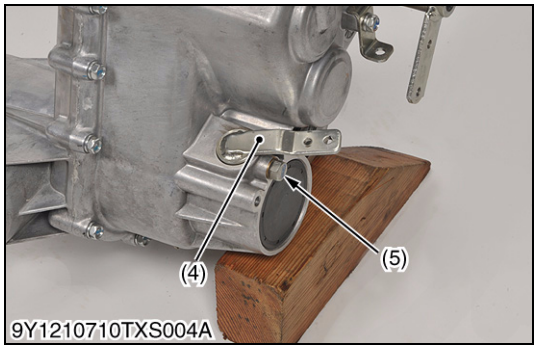
(1) Pump Gear
(2) External Snap Ring
(3) Oil Strainer
(4) Pump Cover
(5) Spacer
(6) Pump Shaft
(7) Pin
(8) Inner Rotor
(9) Outer Rotor

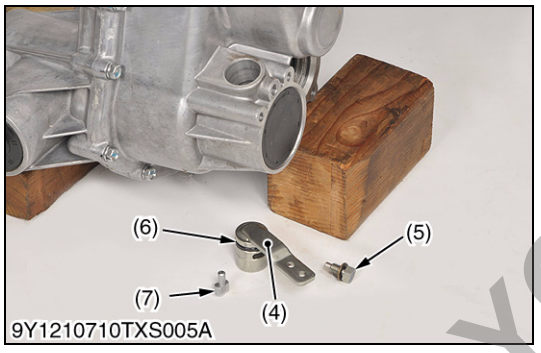
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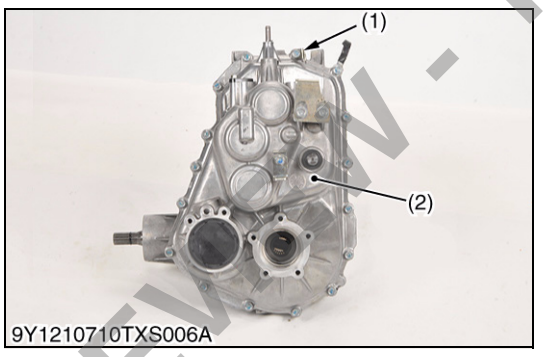
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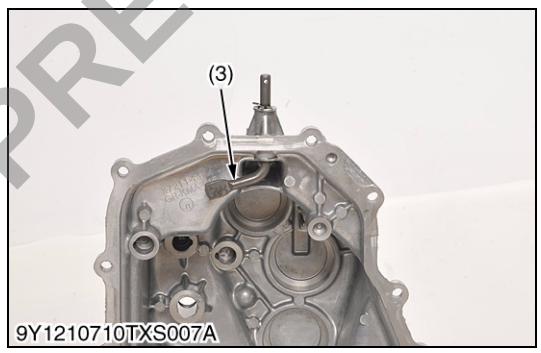
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Lever Arm and DT Lever

1. Tap out the spring pin (2) and remove the range gear shift arm (3).
2. Remove the stopper bolt (5) and remove the DT lever (4).
3. Remove the range gear safety switch (1).

(When reassembling)

- Take care not to damage the O-ring (6).
- Install the DT lever with the guide pin (7) to the shifter align the guide pin (7) and groove of shifter.

Tightening torque	Safety switch	19.6 to 22.6 N·m 2.0 to 2.30 kgf·m 14.5 to 16.6 lbf·ft
	Stopper bolt	21.6 to 25.5 N·m 2.21 to 2.60 kgf·m 16.0 to 18.8 lbf·ft

(1) Safety Switch
(2) Spring Pin
(3) Range Gear Shift Arm
(4) DT Lever
(5) Stopper Bolt
(6) O-ring
(7) Guide Pin

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Transaxle Case Cover

1. Remove the transaxle case cover mounting screws.
2. Remove the transaxle case cover (2).

(When reassembling)

- Install the governor lever (3) to the position as shown in the figure.
- Install the clamp stay (1) to the position as shown in the figure.
- Apply liquid gasket (Three Bond 1216E or equivalent) to joint face transaxle case and cover.

Tightening torque	Transaxle case cover mounting screw	17.6 to 20.6 N·m 1.80 to 2.10 kgf·m 13.0 to 15.1 lbf·ft

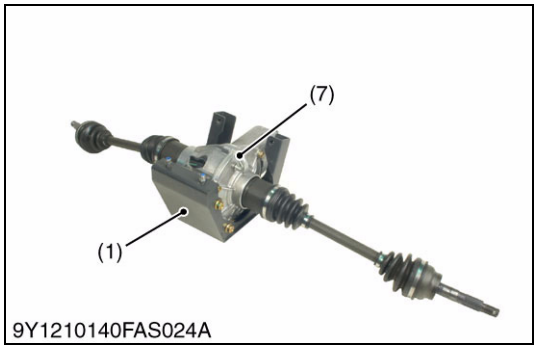
(1) Clamp Stay
(2) Transaxle Case Cover
(3) Governor Lever

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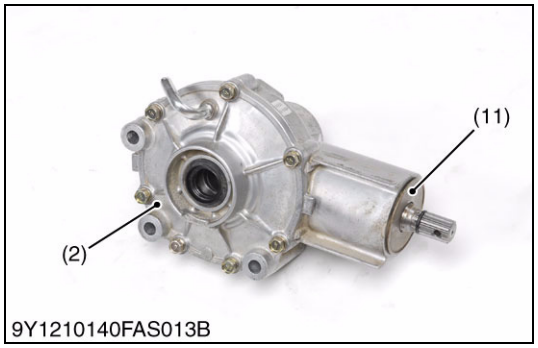
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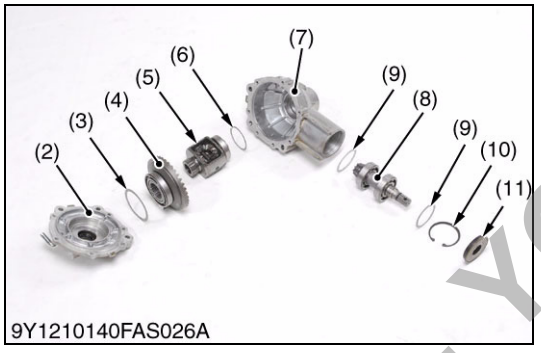
(3) Front Differential Case



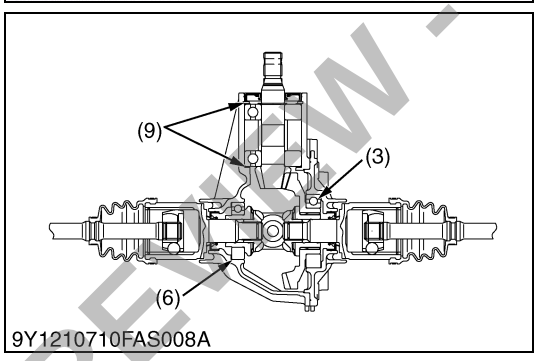
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Front Differential Assembly and Bevel Gear Shaft Assembly

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 Case
(6) Shim
(7) Front Case
(8) 8T Bevel Gear Shaft Assembly
(9) Shim
(10) Internal Snap Ring
(11) Oil Seal

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