Kubota

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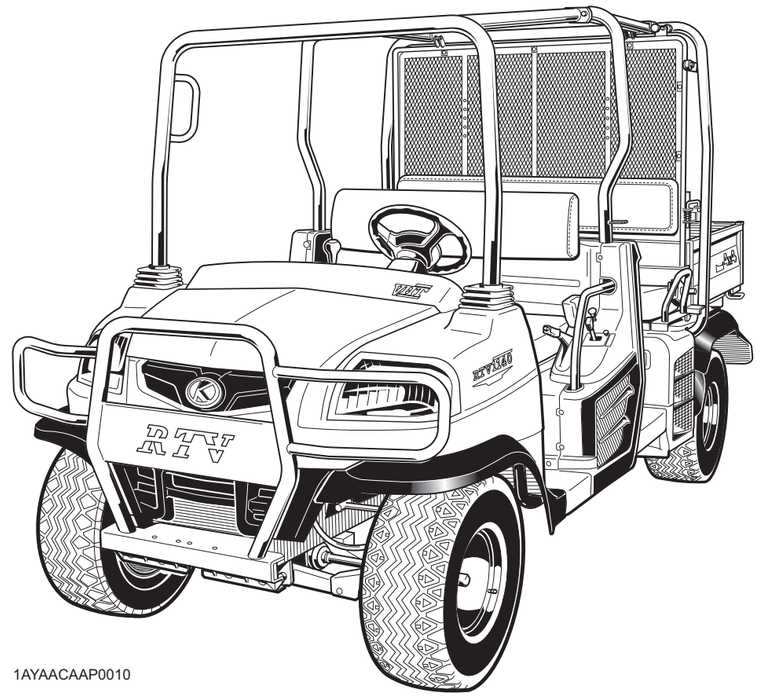
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RTV1140CPX

OPERATOR'S MANUAL

KUBOTA
UTILITY VEHICLE
RTV1140CPX



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READ AND SAVE THIS MANUAL

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Kubota

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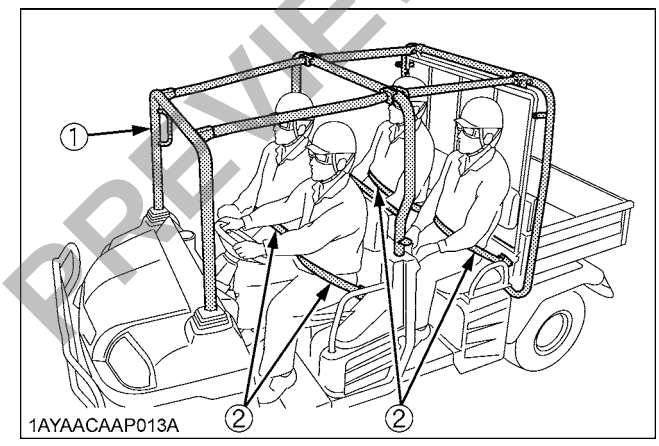
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⚠ SAFE OPERATION

Careful operation is your best insurance against an accident.
Read and understand this Operator's Manual carefully before operating the vehicle.
All operators, no matter how much experience they may have, should read this and other related manuals before operating the vehicle or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.

1. BEFORE OPERATING THE VEHICLE

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the vehicle.
2. Pay special attention to the Danger, Warning and Caution labels on the vehicle.
3. Do not remove Roll-Over Protective Structures (ROPS) for any application and fasten seat belts at all times. This combination will reduce the risk of serious injury or death, should the vehicle be upset.
   If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the vehicle.
   Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
   A damaged ROPS structure must be replaced, not repaired or revised.
   If any structural member of the ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) ROPS
(2) Seat belt

4. Always use the seat belts. Check the seat belts regularly and replace if frayed or damaged.
5. Do not operate the vehicle or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
6. Carefully check the vicinity before operating the vehicle or any implement attached to it. Check for overhead clearance which may interfere with the CAB or ROPS. Do not allow any bystanders around or near the vehicle during operation.
7. Never allow anyone without a valid driver's license to operate this vehicle.
8. Before allowing other people to use your vehicle, explain how to operate and have them read this manual before operation.
9. Never wear loose, torn, or bulky clothing around the vehicle. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. helmet, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
10. This vehicle is for off road use only.
    KUBOTA does not recommend operating on public roads.
11. In addition to the driver, only one passenger should ride in the vehicle on one row seating mode and three passengers maximum for two row seating mode.
    Minimum age for passenger is 5 years old.
12. Keep all shields in place and stay away from all moving parts.
13. Check brakes, speed control pedal, and other mechanical parts for improper adjustment and wear.
    Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
14. Keep your vehicle clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
15. Use only implements meeting the specifications listed under "VEHICLE LIMITATIONS" in this manual or implements approved by KUBOTA.
16. The maximum cargo capacity of this vehicle is 500kg (1100 lbs.) for one row seating mode and 300kg (661 lbs.) for two row seating mode. Reduce cargo capacity to match operating conditions.
    Do not carry anything which raises the center-of-gravity and sticks outside the cargo bed.
17. Do not modify the vehicle. Unauthorized modification may affect the function of the vehicle, which may result in personal injury.

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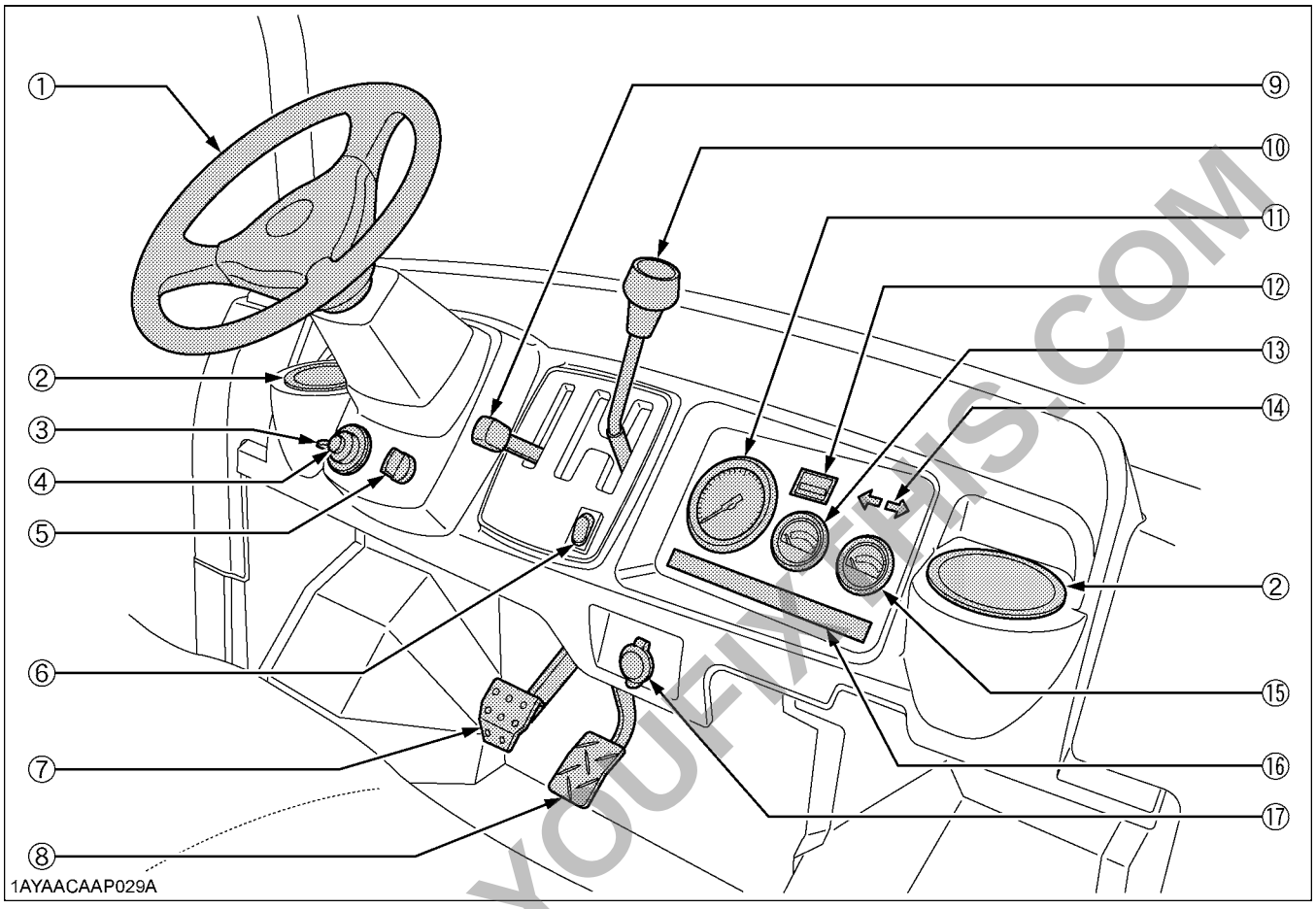
SPECIFICATIONS

SPECIFICATION TABLE

Model				Worksite/Orange	Worksite/Camo
Engine	Make			D1105	
	Type			3 cylinders, 4-cycle, diesel, OHV	
	Displacement		L (cu. in.)	1.123 (68.53)	
	Horsepower		kW (HP)	18.5 (24.8)	
	Rated revolution		rpm	3000	
	Low idling revolution		rpm	1300 to 1400	
Fuel Capacity			L (U.S.gals)	30 (7.9)	
Transmission				Continuously variable hydro transmission (VHT)	
Wheels, Drive system				4, Rear 2WD or 4WD	
Differential lock				Standard; foot operated with mechanical holder	
Gear selection				Hi-Med-Lo range forward, neutral, reverse	
Brakes	Front / Rear			Wet disk brake	
	Parking brake			Rear wheel, hand lever	
Steering				Hydrostatic power	
Suspension	Front			Independent, macpherson strut-type	
	Rear			Semi-independent, DeDion axle w/leaf springs and shock absorber	
Dimensions	Length		mm (in.)	3480 (137.0)	
	Width		mm (in.)	1550 (61.0)	
	Height, overall		mm (in.)	2000 (78.7)	
	Front tread centers		mm (in.)	1150 (45.3) HDWS, ATV 1180 (46.5) Turf	
	Rear tread centers		mm (in.)	1180 (46.5) HDWS, ATV 1210 (47.6) Turf	
	Wheelbase		mm (in.)	2415 (95.1)	
	Ground clearance	front axle	mm (in.)	190 (7.5)	
		rear axle		190 (7.5)	
	Turning diameter		m (ft)	10 (32.8)	
Max. rolling weight (Towing Capacity)			kg (lbs.)	590 (1300)	
Payload capacity			kg (lbs.)	730 (1609)	
Weight			kg (lbs.)	1075 (2370)	

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OPERATING THE VEHICLE

OPERATING NEW VEHICLE

How a new vehicle is handled and maintained determines the life of the vehicle.

A new vehicle just off the factory production line has been, of course, tested, but the various parts are not accustomed to each other, so care should be taken to operate the vehicle for the first 50 hours at a slower speed and avoid excessive work or operation until the various parts become "broken-in." The manner in which the vehicle is handled during the "breaking-in." period greatly affects the life of your vehicle. Therefore, to obtain the maximum performance and the longest life of the vehicle, it is very important to properly break-in your vehicle. In handling a new vehicle, the following precautions should be observed.

■Do not Operate the Vehicle at Full Speed for the First 50 Hours

- Do not start quickly nor apply the brakes suddenly.
- In winter, operate the vehicle after fully warming up the engine.
- Do not run the engine at speeds faster than necessary.
- On rough roads, slow down to suitable speeds.

  Do not operate the vehicle at fast speed. The above precautions are not limited only to new vehicles, but to all vehicles. But it should be especially observed in the case of new vehicles.

■Changing Lubricating Oil for New Vehicles

The lubricating oil is especially important in the case of a new vehicle. The various parts are not "broken-in" and are not accustomed to each other. Small pieces of metal grit may develop during the operation of the vehicle; and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than would ordinarily be required. For further details of change interval hours, see "MAINTENANCE" section.

STARTING

1. Fasten the seat belt.

■Seat Belt

WARNING

To avoid personal injury:

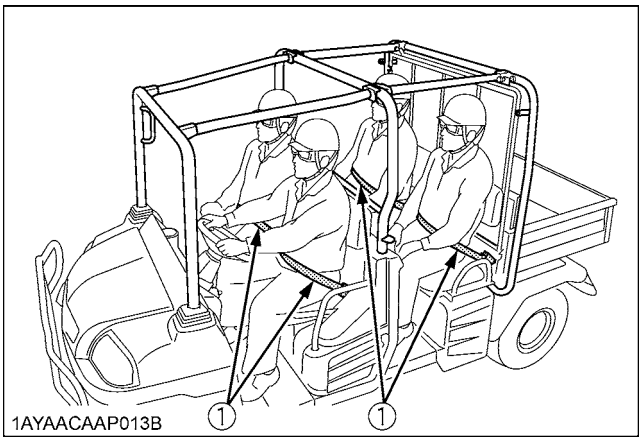
- **Seat belts reduce injury. Always wear your seat belts. The lap-style seat belts may not provide adequate protection for small children. Special care is recommended when carrying a child passenger.**

CAUTION

To avoid personal injury:

- **Always use the seat belts when operating and riding in the vehicle.**

Adjust the seat belts for proper fit and connect the buckle. This seat belt is an auto-locking retractable type.



(1) Seat belt

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SEATING AND CARGO BED

CARGO BED

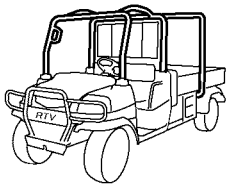
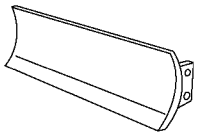
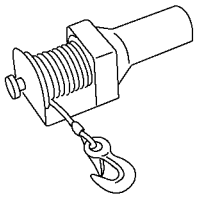
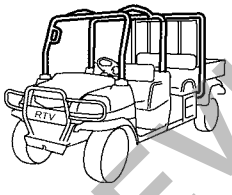
■General Caution

WARNING

To avoid personal injury:

- **Never carry passengers in the cargo bed. They can be tossed about or even thrown off causing serious injury or death.**
- **Driving with the cargo bed tilted may be hazardous.**
  Always lower the bed and lock the hydraulic lift cylinder lever before driving.
- **Be careful not to put any part of your body, such as hands or arms, between the bed and vehicle.**
- **Drive slowly when it is loaded.**

■Max. Cargo Load

	Operator	Passenger	Implement	Cargo Bed Capacity
1 row seating mode 	95 kg (209 lbs)	---	W: weight  Blade  Winch	500 kg (1100 lbs) - W
	95 kg (209 lbs)	95 kg (209 lbs)		500 kg (1100 lbs) - W
2 row seating mode 	95 kg (209 lbs)	---		300 kg (661 lbs) - W
	95 kg (209 lbs)	95 kg (209 lbs)		300 kg (661 lbs) - W
	95 kg (209 lbs)	95 kg (209 lbs) 95 kg (209 lbs)		300 kg (661 lbs) - W
	95 kg (209 lbs)	95 kg (209 lbs) 95 kg (209 lbs) 95 kg (209 lbs)		300 kg (661 lbs) - W

1AYAACAAP076A

IMPORTANT :

- Cargo Bed Capacity (CBC) is 500 kg (1100 lbs) for 1 row seating mode and 300 kg (661 lbs) for 2 row seating mode.
- Never carry loads exceeding the Permissible Cargo Load (PCL).

NOTE :

- Max. Cargo load should not exceed "CBC" or "PCL".
  PCL = PC - (operator + passengers + opt. + acc. + cabin) weight
  (PCL: Permissible Cargo Load / CBC: Cargo Bed Capacity / opt.: option / acc.: accessory / PC: Payload Capacity)

Payload Capacity	kg (lbs)	730 (1609)

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WHEELS

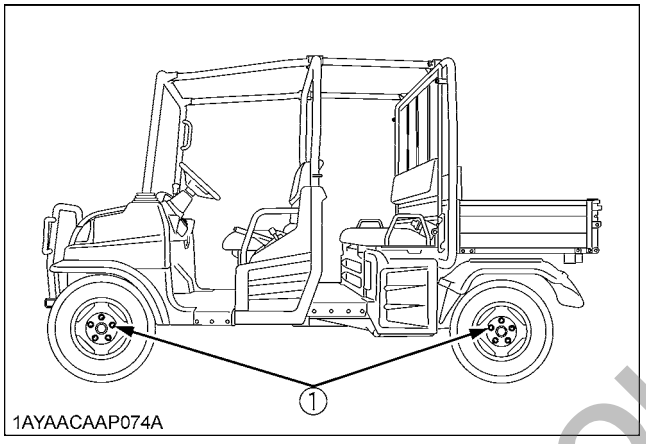
CAUTION

To avoid personal injury:

- **Support vehicle securely on stands before removing a wheel.**
- **Never operate vehicle with loose wheel bolts.**

IMPORTANT :

- When re-fitting a wheel, tighten the bolts to the following torques then recheck after driving the vehicle 200 m (200 yards) and thereafter according to service interval.



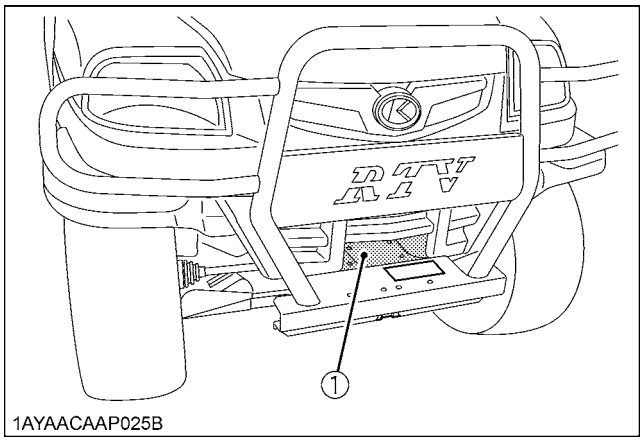
(1) Torque wheel bolts to 75 to 90 N-m (7.6 to 9.2 kgf-m) (55.3 to 66.4 ft-lbs.)

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■Winch Mount Plate

Mounting the optional winch always requires reading the instruction manual attached to the winch thoroughly before using it.

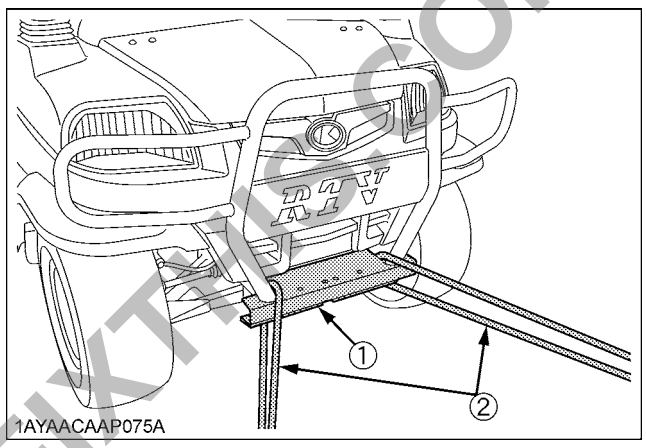


(1) Winch mount plate

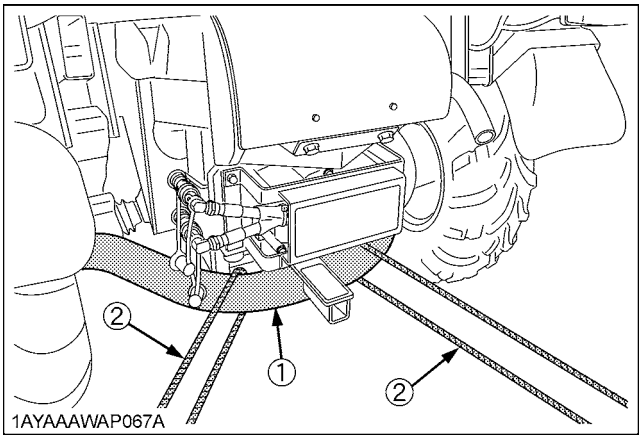
■Transport the Vehicle Safely

Pay attention to the points below when transporting the vehicle.

1. Use a suitable truck or trailer.
2. Apply the parking brake and place chocks against the front and rear tires.
3. Secure the portions of the vehicle, which are shown in the figure below, by using strong straps or chains.



(1) Front bumper
(2) Heavy-duty strap



(1) Pipe frame
(2) Heavy-duty strap

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MAINTENANCE

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.**
- **If you don't have the knowledge and equipment which are necessary to perform the maintenance task, consult your local KUBOTA Dealer.**
- **Have your local KUBOTA Dealer perform inspection items which are marked *4 in the chart below.**

SERVICE INTERVALS

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 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 Consult your local KUBOTA Dealer for this service.

*5 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.

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

No.	Items		Indication of Hour Meter														After 700 hrs	Ref. Page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine oil	Change	◎			○				○				○			every 200 hrs	61		
2	Engine oil filter	Replace	◎			○				○				○			every 200 hrs	62		
3	Transmission fluid	Change								○							every 400 hrs	69		
4	Transmission oil filter (HST) (Yellow color)	Replace	◎			○				○				○			every 200 hrs	62		
5	Transmission oil filter (Suction) (Orange color)	Replace	◎			○				○				○			every 200 hrs	63		
6	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	55		
7	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	53		
8	Muffler [Spark arrester]	Clean		○		○		○		○		○		○		○	every 100 hrs	60		
9	Wheel bolt torque	Check	◎	○		○		○		○		○		○		○	every 100 hrs	56		
10	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	58	*5	
11	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	57		
12	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	55		

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LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lubricants	
1	Fuel	30 L (7.9 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 ℃ (14 ℉)	
2	Coolant (with reserve tank)	5.2 L (5.5 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	[Filter exchanged] 4.1 L (4.3 U.S.qts.) [Filter non-exchanged] 3.8 L (4.0 U.S.qts.)	● Engine oil: API Service Classification CD, CE or CF	
			Above 25 ℃ (77 ℉)	SAE30, SAE10W-30 or 15W-40
			0 to 25 ℃ (32 to 77 ℉)	SAE20, SAE10W-30 or 15W-40
			Below 0 ℃ (32 ℉)	SAE10W, SAE10W-30
4	Transmission case	11 L (2.9 U.S.gals.)	● KUBOTA UDT or SUPER UDT fluid*	
5	Front axle case	0.6 L (0.6 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid*	
6	Knuckle case	Ref. 0.15 L (0.16 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid*	
7	Brake fluid (reservoir and lines)	0.87 L (0.9 U.S.qts.)	KUBOTA **DOT3** GENUINE BRAKE FLUID	
8	Hydraulic tank oil	16.0 L (16.9 U.S.qts.)	● KUBOTA UDT or SUPER UDT fluid*	

Greasing	No. of greasing points	Capacity	Type of grease
Parking brake linkage	4	moderate amount	Multipurpose EP2 Grease (NLGI Grade No.2)
Battery terminal	2		
Cargo lift cylinder pivot	2		
Cargo bed pivot	2		
VHT link	2	Until grease overflows	
Range gear shift lever pivot	2	moderate amount	
4WD lever pivot	2		
Rear drive shaft	2		
VHT pressure release pivot	2		
Throttle cable	1		Antirust silicone grease

NOTE :
*KUBOTA UDT or SUPER UDT fluid --- KUBOTA original transmission hydraulic fluid

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■Checking Engine Start System

CAUTION

To avoid personal injury:

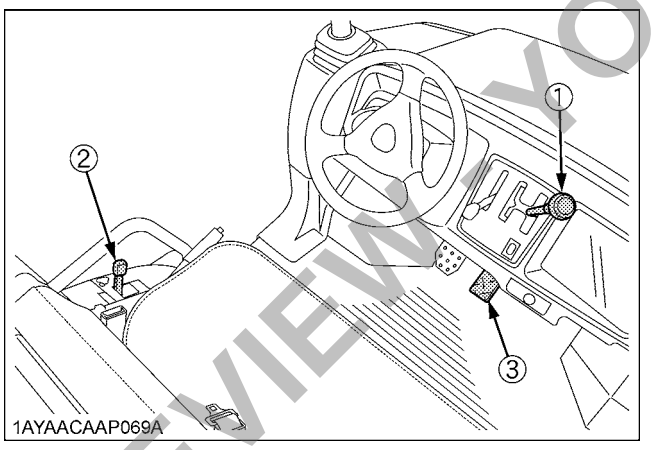
- **Do not allow anyone near the vehicle while testing.**
- **If the vehicle does not pass the test, do not operate the vehicle.**

◆ **Preparation before testing.**

1. Place all control levers in the "NEUTRAL" position.
2. Set the parking brake and stop the engine.

◆ **Test: Range gear shift lever safety switch**

1. Sit on the operator's seat.
2. Shift the range gear shift lever to H position.
3. Return the Speed control pedal to the "NEUTRAL" position.
4. Shift the hydraulic lift cylinder lever to the "NEUTRAL" position.
5. Turn the key to "START" position.
6. The engine must not crank.
7. Repeat the step 2 to 6 with the range gear shift lever at "M", "L" and "R" each position.
8. If it cranks, consult your local KUBOTA Dealer for service.



(1) Range gear shift lever
(2) Hydraulic lift cylinder lever
(3) Speed control pedal

EVERY 100 HOURS

■Checking VHT Neutral Spring

1. Park the vehicle on a flat place.
2. Set the parking brake.
3. Shift the range gear shift lever to the "NEUTRAL" position.
4. Lock the hydraulic lift cylinder lever to the "NEUTRAL" position with restricting plate.
5. Start the engine.
6. Make sure that the rotation speed of the engine returns to the idling rotation immediately when taking the foot off the pedal, after depressing the speed control pedal several times. If the above does not occur immediately, consult your local KUBOTA dealer for this service.

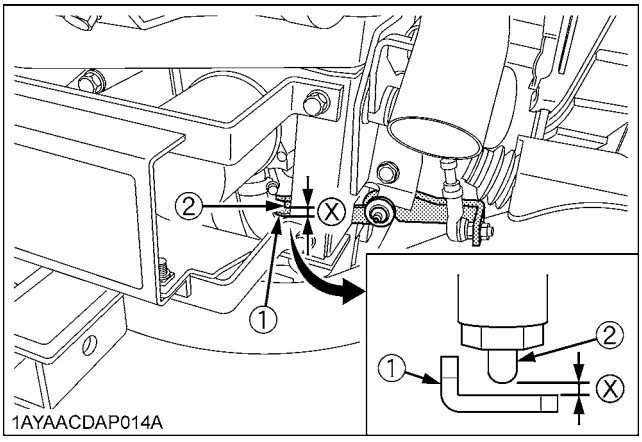
■Checking VHT Pressure Release

CAUTION

To avoid personal injury:

- **Do not touch muffler or exhaust pipes while they are hot; severe burns could result.**

1. Park the vehicle on a level ground and set the parking brake.
2. Start the engine and shut off it soon.
3. Check the points as shown in the figures below.
4. If the result corresponds to either of the following (a) or (b), consult your local KUBOTA Dealer.
   (a) The clearance (x) is more than 1 mm.
   (b) Spring needs adjusting.



(1) VHT pressure release arm
(2) VHT pressure release valve

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