U.S.A. : **KUBOTA TRACTOR CORPORATION**
3401 Del Amo Blvd., Torrance, CA 90503, U.S.A.
Telephone : (310)370-3370
Western Division : 1175 S. Guild Avc., Lodi, CA 95240
Telephone : (209)334-9910
Central Division : 14855 FAA Blvd., Fort Worth, TX 76155
Telephone : (817)571-0900
Northern Division : 6300 at One Kubota Way, Groveport, OH 43125
Telephone : (614)835-1100
Southeast Division : 1025 Northbrook Parkway, Suwanee, GA 30024
Telephone : (770)995-8855
Canada : **KUBOTA CANADA LTD.**
5900 14th Avenue, Markham, Ontario, L3S 4K4, Canada
Telephone : (905)294-7477
Delta Distribution Center : 7979 82nd St, Delta B.C. V4G 1L7
Telephone : (604)940-6061
Drummondville Distribution Center : 5705 Place Kubota, Drummondville, Québec, J2B 6B4
Telephone : (819)478-7151
France : **KUBOTA EUROPE S.A.S**
19-25, Rue Jules Vercruysse, Z.I. BP88, 95101 Argenteuil Cedex, France
Telephone : (33)1-3426-3434
Italy : **KUBOTA EUROPE S.A.S Italy Branch**
Via Grandi, 29 20068 Peschiera Borrome (MI) Italy
Telephone : (39)02-51650377
Germany : **KUBOTA (DEUTSCHLAND) GmbH**
Senefelder Str. 3-5 63110 Rodgau /Nieder-Roden, Germany
Telephone : (49)6106-873-0
U.K. : **KUBOTA (U.K.) LTD.**
Dormer Road, Thame, Oxfordshire, OX9 3UN, U.K.
Telephone : (44)1844-214500
Spain : **KUBOTA ESPAÑA S.A.**
Avenida Recomba No.5, Polígno Industrial la Laguna, Leganes, 28914 (Madrid) Spain
Telephone : (34)91-508-6442
Australia : **KUBOTA TRACTOR AUSTRALIA PTY LTD.**
25-29 Permas Way, Truganina, VIC 3029, Australia
Telephone : (61)-3-9394-4400
Malaysia : **SIME KUBOTA SDN. BHD.**
No.3 Jalan Sepadu 25/123 Taman Perindustrian Axis,
Seksyen 25, 40400 Shah Alam, Selangor Darul Ehsan Malasia
Telephone : (60)3-736-1388
Philippines : **KUBOTA AGRO-INDUSTRIAL MACHINERY PHILIPPINES, INC.**
155 Panay Avenue, South Triangle Homes, 1103 Quezon City, Philippines
Telephone : (63)2-9201071
Taiwan : **SHIN TAIWAN AGRICULTURAL MACHINERY CO., LTD.**
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Telephone : (62)-24-7472849
Thailand : **SIAM KUBOTA CORPORATION CO., LTD.**
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Pathumthani 12120, THAILAND
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Korea : **KUBOTA KOREA CO., LTD.**
106-24 Mongsan-Ri, Mankyung-Up, Kimje-City, Chonrapuk-Do, KOREA
Telephone : (82)-63-544-5822
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Regus, Level 2 Altius, Olympia Tech Park, No.1 SIDCO Industrial Estate, Guindy, Chennai 600032, TN, India
Telephone : (91)-44-4299-4237
Vietnam : **KUBOTA VIETNAM CO., LTD.**
Lot B-3A2-CN, My Phuoc 3 Industrial Park, Ben Cat District, Binh Duong Province, Vietnam
Telephone : (84)-650-3577-507

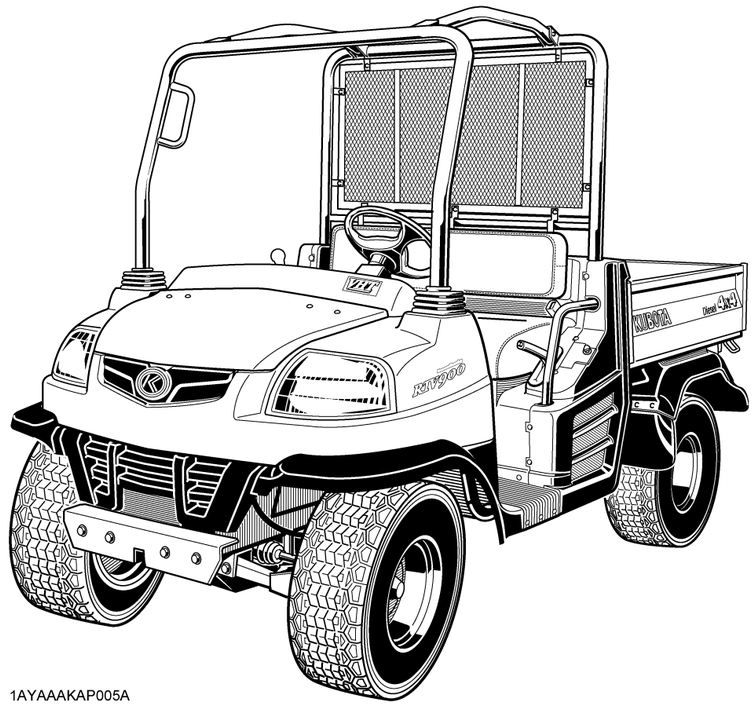
KUBOTA Corporation

Code No. K7581-7121-5

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OPERATOR'S MANUAL

KUBOTA
UTILITY VEHICLE
RTV900



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READ AND SAVE THIS MANUAL

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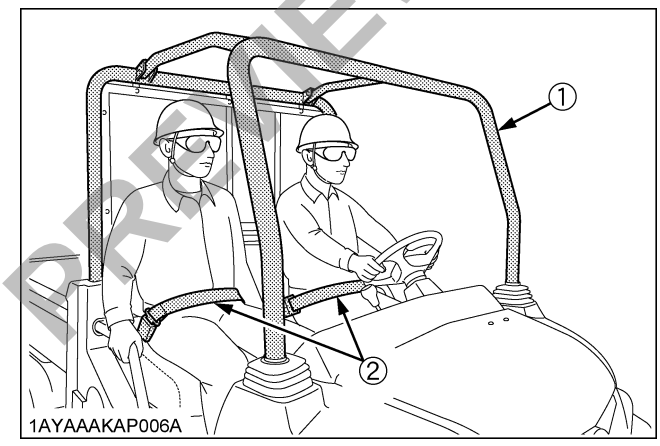
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SAFE OPERATION

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.
    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. 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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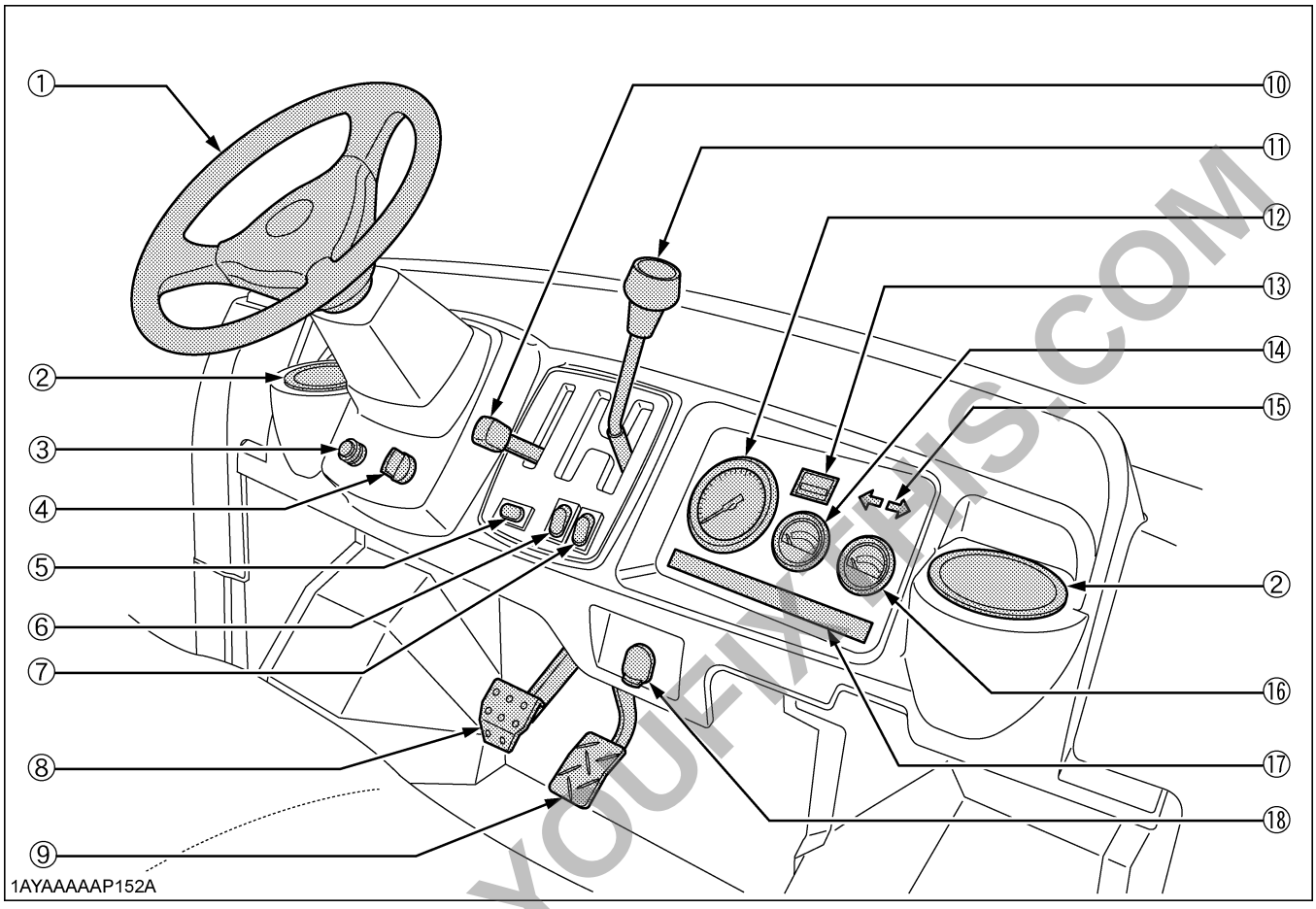
SPECIFICATIONS

SPECIFICATION TABLE

Model				General Purpose	Worksite /Orange	Worksite /Camo	Worksite /Utility	Turf Utility
Engine	Make			KUBOTA D902-E3-UV				
	Type			3 cylinders, 4-cycle, diesel, OHV				
	Displacement		L (cu. in.)	0.898 (54.802)				
	Horsepower		kW (HP)	16.1 (21.6)				
	Rated revolution		rpm	3200				
	Low idling revolution		rpm	1300 to 1400				
Fuel Capacity			L (U.S.gals)	28 (7.4)				
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.)	2990 (117.7)	3030 (119.3)			
	Width		mm (in.)	1550 (61.0)				
	Height, overall		mm (in.)	2010 (79.1)				
	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.)	1965 (77.4)				
	Ground clearance	front axle	mm (in.)	210 (8.3)				
		rear axle		190 (7.5)				
	Turning diameter		m (ft)	7.8 (25.6)				
Max. rolling weight (Towing Capacity)			kg (lbs.)	590 (1300)				
Payload capacity			kg (lbs.)	775 (1708)	750 (1653)	755 (1664)	720 (1587)	715 (1576)
Weight			kg (lbs.)	845 (1863)	870 (1918)	865 (1907)	900 (1984)	905 (1995)

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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:

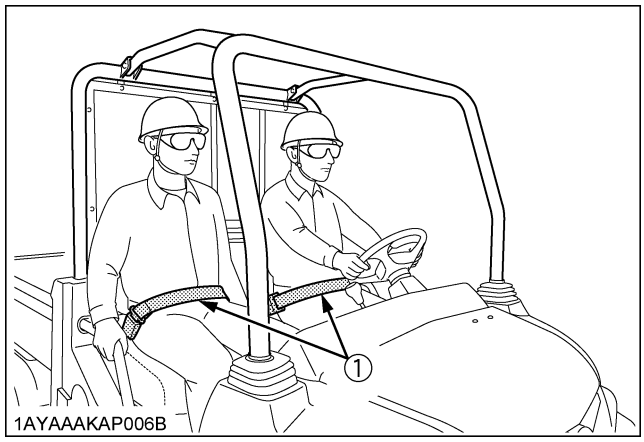
- **Seat belts reduce injury. Always wear your seat belts. The lap-style seat belts may not provide adequate protection for small children. Special care is recommended when carrying a child passenger.**

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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TOWING AND TRANSPORTING

TOWING AND TRANSPORTING

■Rear Trailer Hitch

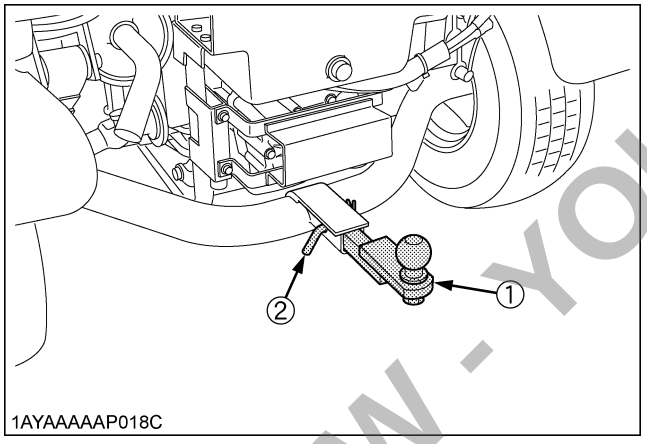
[if equipped]

WARNING

To avoid personal injury:

- **Always tow a load slowly enough to maintain control and avoid tipping.**
- **To provide adequate braking ability and traction, do not tow a load unless vehicle cargo bed is loaded or attachment is installed.**
- **Attach a trailer to the trailer hitch only.**

The rear trailer hitch load is referred to "VEHICLE LIMITATIONS" section. When towing other equipment, use a safety chain.



(1) Rear trailer hitch (if equipped)
(2) Hitch pin (if equipped)

■Front Trailer Hitch

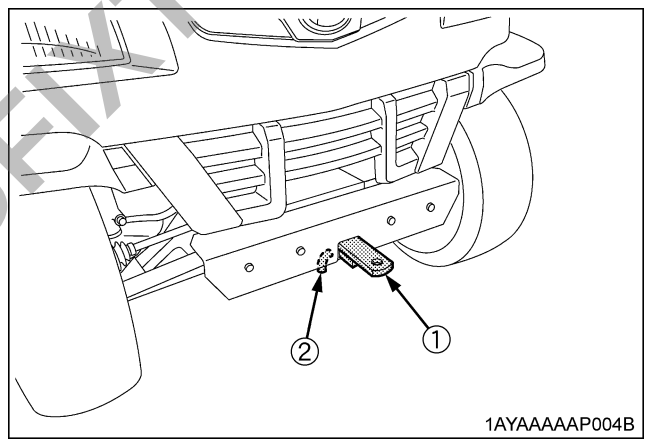
[if equipped]

WARNING

To avoid personal injury:

- **Do not tow this vehicle unless all the functions of the vehicle are properly working, since the malfunction of steering operation or braking may cause an accident.**

Use the front trailer hitch for greater maneuverability in confined areas such as a barn.
The front trailer hitch load is referred to "VEHICLE LIMITATIONS" section.



(1) Front trailer hitch (if equipped)
(2) Hitch pin (if equipped)

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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 start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	56		
2	Greasing	Apply	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 hrs	55		
3	Engine oil	Change	◎		○					○				○			every 200 hrs	66		
4	Muffler [Spark arrester]	Clean		○		○		○		○		○		○		○	every 100 hrs	63		
5	Wheel bolt torque	Check	◎	○		○		○		○		○		○		○	every 100 hrs	58		
6	Battery condition	Check		○		○		○		○		○		○		○	every 100 hrs	61	*5	
7	Alternator belt	Adjust		○		○		○		○		○		○		○	every 100 hrs	59		
8	VHT neutral spring	Check		○		○		○		○		○		○		○	every 100 hrs	57		
9	VHT pressure release	Check		○		○		○		○		○		○		○	every 100 hrs	57	*4	
10	Toe-in	Adjust		○		○		○		○		○		○		○	every 100 hrs	62		
11	Fuel filter element	Check		○		○		○		○		○		○		○	every 100 hrs	60		@
		Replace										○					every 500 hrs	79	*4	

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LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lubricants	
1	Fuel	28 L (7.4 U.S.gals.)	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below -10 ℃ (14 ℉)	
2	Coolant (with reserve tank)	4.0 L (4.2 U.S.qts.)	Fresh clean water with anti-freeze	
3	Engine crankcase	[Filter exchanged] 3.1 L (3.3 U.S.qts.) [Filter non-exchanged] 2.7 L (2.9 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	10 L (2.6 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)	0.4 L (0.4 U.S.qts.)	KUBOTA **DOT3** GENUINE BRAKE FLUID	
8	Hydraulic lift oil [Hydraulic dumping equipped model)	8.0 L (8.5 U.S.qts.)	• KUBOTA UDT or SUPER UDT fluid*	
	Hydraulic auxiliary tank oil [Hydraulic utility valve equipped model]	17.0 L (18.0 U.S.qts.)		
9	Power steering oil	5.9 L (6.2 U.S.qts.)		

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	1	moderate amount	
4WD lever pivot	2		
Rear drive shaft	2		
VHT pressure release	2		
Throttle cable	1		Antirust silicone grease
Hand throttle cable [Hydraulic utility valve equipped model]	---		

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

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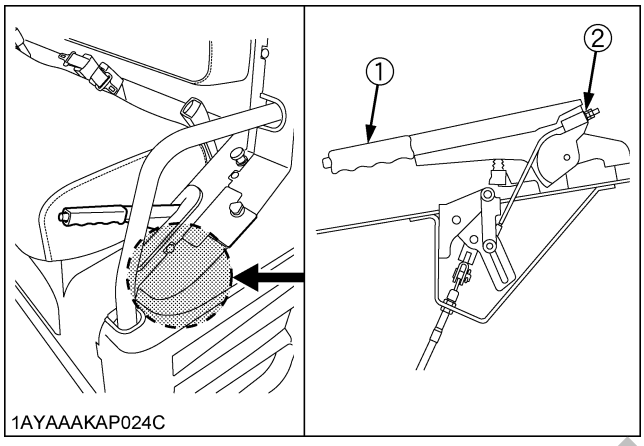
EVERY 200 HOURS

■Adjusting Parking Brake

Proper parking brake lever free play range	1 notch

◆ **Adjusting procedure**

1. Release the parking brake.
2. Loosen the lock nut, and adjust the cable wire length.
3. Tighten the lock nut, and check the free play.



(1) Parking brake lever
(2) Lock nut

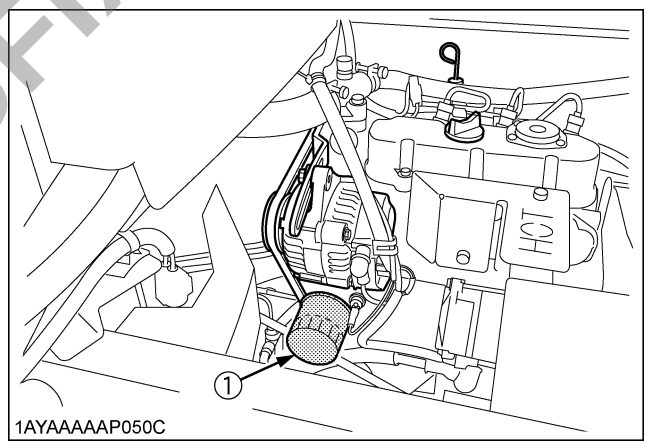
■Replacing Engine Oil Filter

CAUTION

To avoid personal injury:

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

1. Park the vehicle on a flat surface, raise the cargo bed, and mount the safety support.
2. Remove the oil filter.
3. Put a film of clean engine oil on the rubber seal of the new filter.
4. Tighten the filter quickly until it contacts the mounting surface.
   Tighten filter by hand an additional 1/2 turn only.
5. After the new filter has been replaced, the engine oil normally decreases a little. Make sure that the engine oil does not leak through the seal and be sure to check the oil level on the dipstick. Then, replenish the engine oil up to the prescribed level.



(1) Engine oil filter

IMPORTANT :

- To prevent serious damage to the engine, use only a KUBOTA genuine filter.

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WHEELS

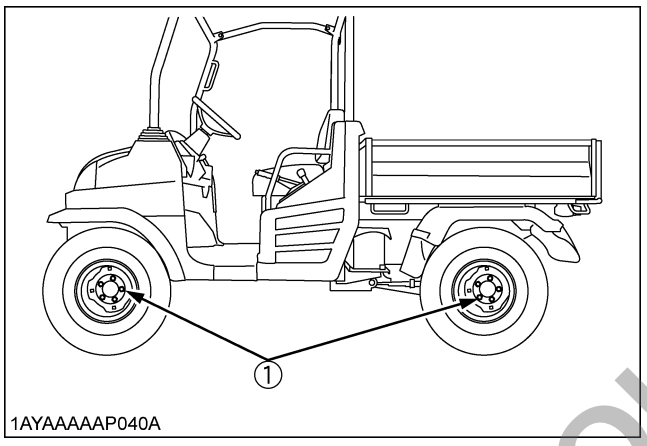
CAUTION

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.



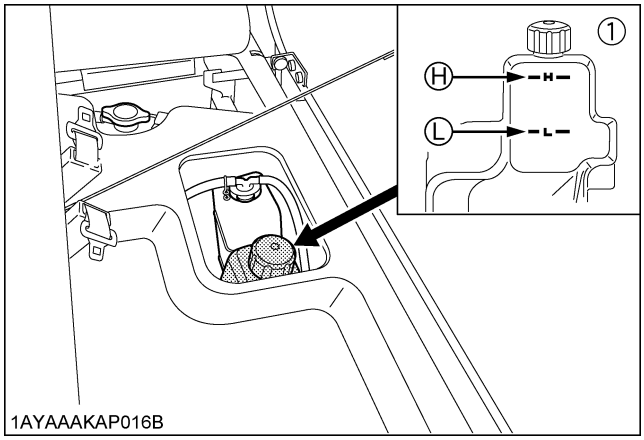
(1) Torque wheel bolts to 75 to 90 N-m (7.6 to 9.2 kgf-m) (55.3 to 66.4 ft-lbs.)

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■Checking Power Steering Oil Tank Level

1. Park the vehicle on a flat surface.
2. Check to see that the oil level is between the "H" and "L" marks on the oil tank.
   If the level is too low, add new oil to the "H" mark.
   (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)



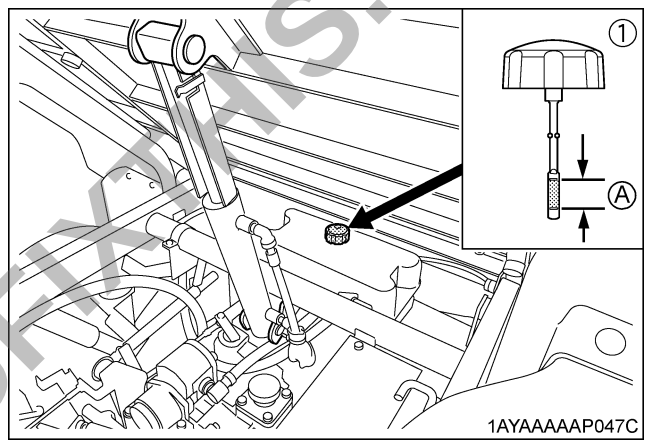
(1) Power steering oil tank *(H) "HIGH"* *(L) "LOW"*

IMPORTANT :
- If oil level is low, do not run engine.

■Checking Hydraulic Lift Oil Tank Level

[Hydraulic dumping system model]

1. Park the vehicle on a flat surface.
2. Raise the cargo bed and mount the safety support. (See "HOW TO RAISE THE CARGO BED" in "PERIODIC SERVICE" section.)
3. To check the oil level, remove the dipstick, wipe it clean, screw it into filling hole and remove dipstick again.
   If the level is too low, add new oil to the prescribed level at the oil inlet.
   (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)



(1) Filling plug with dipstick *(A) Oil level is acceptable within this range*

IMPORTANT :
- If oil level is low, do not run engine.

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