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KUBOTA Corporation

Code No. K7611-7121-5

OPERATOR'S MANUAL

KUBOTA RIV1140CPX **UTILITY VEHICLE**



READ AND SAVE THIS MANUAL



ABBREVIATION LIST

Abbreviations	Definitions
2WD	Two Wheel Drive
4WD	Four Wheel Drive
API	American Petroleum Institute
ASABE	American Society of Agricultural and Biological Engineers, USA
ASTM	American Society for Testing and Materials, USA
DIN	Deutsches Institut für Normung, GERMANY
fpm	Feet Per Minute
HST	Hydrostatic Transmission
Km/h	Kilometers Per Hour
MPH	Miles Per Hour
m/s	Meters Per Second
PTO	Power Take Off
RH/LH	Right-hand and left-hand sides are determined by facing in the direction of forward travel
ROPS	Roll-Over Protective Structures
rpm	Revolutions Per Minute
r/s	Revolutions Per Second
SAE	Society of Automotive Engineers, USA
VHT	Variable Hydro Transmission

California Proposition 65

A WARNING A

Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

IMPORTANT

The engine in this machine is equipped by the manufacture with a standard spark arrester.

It is a violation of California Public Resource Code Section 4442 to use or operate this engine on or near any forest-covered, brush-covered land, or grass- covered land unless the exhaust system is equipped with a working spark arrester meeting state laws. Other states or federal areas may have similar laws.

KUBOTA Corporation is ...

Since its inception in 1890, KUBOTA Corporation has grown to rank as one of the major firms in Japan.

To achieve this status, the company has through the years diversified the range of its products and services to a remarkable extent, until today, 19 plants and 16,000 employees produce over 1,000 different items, large and small.

All these products and all the services which accompany them, however, are unified by one central commitment. KUBOTA makes products which, taken on a national scale, are basic necessities. Products which are indispensable, products intended to help individuals and nations fulfill the potential inherent in their environment. For KUBOTA is the Basic Necessities Giant.

This potential includes water supply, food from the soil and from the sea, industrial development, architecture and construction, and transportation.

Thousands of people depend on KUBOTA's know-how, technology, experience and customer service. You too can depend on KUBOTA.

UNIVERSAL SYMBOLS

As a guide to the operation of your vehicle, various universal symbols have been utilized on the instruments and controls. The symbols are shown below with an indication of their meaning.



Safety Alert Symbol



Diesel Fuel



Hourmeter/Elapsed Operating Hours



Engine Coolant-Temperature



Parking Brake



Brake Fluid & Parking Brake



Battery Charging Condition



Engine Oil-Pressure





Engine-Stop



Engine-Run



Starter Control



Diesel Preheat/Glow Plugs(Low Temperature Start Aid)



Differential Lock



Differential Lock Hold



→ Lift Cylinder-Retract



Lift Cylinder-Extend



Lift Cylinder-Float



Hazard Warning Lights



■ Master Lighting Switch



Audible Warning Device



Fast



Slow



Lock



Unlock

FOREWORD

You are now the proud owner of a KUBOTA Vehicle. This vehicle is a product of KUBOTA quality engineering and manufacturing. It is made of excellent materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your vehicle, please read this manual carefully. It will help you become familiar with the operation of the vehicle and contains many helpful hints about vehicle maintenance. This manual contains instructions for minor maintenance, but information about major repairs is outlined in the KUBOTA Work Shop Manual and should be performed only by a KUBOTA Dealer Technician. It is KUBOTA's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to become outdated. KUBOTA distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.



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 assemble 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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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.

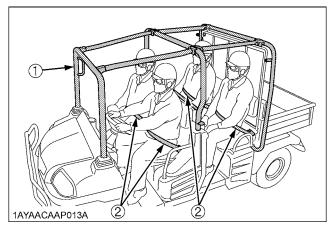
BEFORE OPERATING THE VEHICLE

- 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.
- 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-ofgravity 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.

2. OPERATING THE VEHICLE

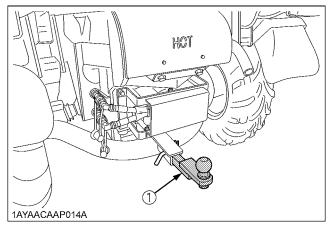
Operator safety is a priority. Safe operation, specifically with respect to overturning hazards, entails understanding the equipment and environmental conditions at the time of use. Some prohibited uses which can affect overturning hazards include traveling and turning with implements and loads carried too high etc. This manual sets forth some of the obvious risks, but the list is not, and cannot be, exhaustive. It is the operator's responsibility to be alert for any equipment or environmental condition that could compromise safe operation.

Starting

- 1. Always sit in the operator's seat when starting engine or operating levers or controls.
- 2. Before starting the engine, make sure that all levers are in their neutral positions, that the parking brake is engaged.
- Do not start engine by shorting across starter terminals or bypassing the safety start switch. The vehicle may start in gear and move if normal starting circuitry is bypassed.
- 4. Be sure that the operator (and passengers) seat belts are fastened.
- Do not operate or idle engine in a non-ventilated area.
 Carbon monoxide gas is colorless, odorless, and deadly.

Operating

- 1. Do not wear headphones while operating.
- Pull only from the trailer hitch (if equipped). Never hitch to axle housing or any other point except trailer hitch; such arrangements will increase the risk of serious personal injury or death due to a vehicle upset.



- (1) Trailer hitch (if equipped)
- 3. Keep all shields and guards in place. Replace any that are missing or damaged.

- 4. Avoid sudden starts. To avoid rollovers, slow down when turning, on uneven ground, and before stopping. While increasing engine speed with the engine hand throttle (if equipped), operate the speed control pedal with great care to avoid sudden starts.
- The vehicle cannot turn with the differential locked and attempting to do so could be dangerous.
- 6. Do not operate near ditches, holes, embankments, or other ground surface features which may collapse under the vehicle's weight. The risk of vehicle upset is even higher when the ground is loose or wet.
- Watch where you are going at all times. Watch for and avoid obstacles. Be alert at row ends, near trees, and other obstructions.
- 8. When working in groups, always let the others know what you are going to do before you do it.
- 9. Never try to get on or off a moving vehicle.
- 10. Do not stand between vehicle and trailer unless parking brake is applied.

Safety for children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to vehicles and the work they do.

- Never assume that children will remain where you last saw them.
- 2. Keep children out of the work area and under the watchful eye of another responsible adult.
- Be alert and shut your vehicle down if children enter the work area.
- 4. Never carry children in the cargo bed. There is no safe place for them to ride. No person under the age of 5 may ride as a passenger in this vehicle. A passenger under 5 years of age requires special restraints which are not available with this vehicle.
- 5. Never allow children to operate the vehicle even under adult supervision.
- Never allow children to play on the vehicle or on the implement.
- 7. Use extra caution when backing up. Look behind and down to make sure area is clear before moving.
- 8. Whenever possible, park your vehicle on a firm, flat and level surface. If this is not possible, park it across the slope. Set the parking brake(s), lower the implements to the ground, remove the key from the ignition and lock the cab door (if equipped) and chock the wheels.

Operating on slopes

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution.

- 1. Travel straight up or down hill.
- 2. Reduce load when operating on hilly or over rough terrain
- Keep front wheels straight at crest of hill or going over bumps.

- 4. Do not stop or start suddenly when going uphill or downhill. Be especially cautious when changing direction on slopes.
- 5. If vehicle stops or loses power going up a hill, lock parking brake to hold vehicle on slope. Maintain direction of travel and release brake slowly. Back straight downhill while maintaining control. Do not turn vehicle sideways. Vehicle is more stable in a straight forward or rearward position.
- 6. When riding on soft terrain, turn front wheels slightly uphill to keep vehicle on a straight line across the hill.
- 7. If the vehicle begins to tip, turn front wheels downhill to gain control before proceeding.
 - (1) To avoid upsets, always back up steep slopes. If you cannot back up the slope or if you feel uneasy on it, do not operate on it. Stay off slopes too steep for safe operation.
 - (2) Driving forward out of a ditch, mired condition or up a steep slope increases the risk of a vehicle to be upset backward. Always back out of these situations. Extra caution is required with fourwheel drive mode because the increased traction can give the operator false confidence in the vehicle's ability to climb slopes.
 - (3) Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, direction or apply brake and make sudden motions of the steering wheel.
 - (4) Special attention should be made to the weight and location of implements and loads as such will affect the stability of the vehicle.

♦ Operation in inclement conditions

- Only operate during daylight or with good artificial light.
- 2. Operate vehicle in an open, unobstructed area.
- 3. Use helmet and/or protective gear for certain operating conditions.
- Reduce speed according to trail, terrain and visibility conditions.
- 5. Never drive exceeding the limit of visibility. Slow down near crest of hill until getting a clear view of the other side.
- 6. Stay alert for holes, rocks and other hidden hazards in the terrain.
- 7. Never cross any body of water where depth may be unknown to the operator (Deep water is considered anything in excess the bottom edge of the axle cap). Choose a course within the waterway where both banks have a gradual incline. Cross at a point known to be safe.

Driving the vehicle at high speeds

- Check the front wheel engagement. The braking characteristics are different between two and four wheel drive. Be aware of the difference and use carefully.
- 2. Always slow the vehicle down before turning. Turning at high speed may tip the vehicle over.

- 3. Turn the headlights on.
- Drive at speeds that allow you to maintain control at all times.
- 5. Do not apply the differential lock while traveling at high speeds. The vehicle may run out of control.
- Avoid sudden motions of the steering wheel as they can lead to a dangerous loss of stability. The risk is especially great when the vehicle is traveling at high speeds.

Other miscellaneous

- Clean platform if dirty and remove any debris from around foot controls.
- 2. Always keep both hands on the steering wheel.
- 3. Always keep arms and legs inside the operating compartment.
- 4. Never operate the vehicle while standing.
- 5. Do not tow a cart with any riders on it.
- 6. Never attempt wheelies, jumps or other stunts.

3. HAULING LOADS IN THE CARGO BED

- 1. No riders in cargo bed or anywhere else.
- 2. Do not overload vehicle. Securely anchor all loads.
- 3. Be sure load is evenly distributed.
- Reduce cargo capacity when operating on rough or hilly terrain.
- 5. Balance loads evenly and secure them. Braking could shift the load and affect vehicle stability.
- 6. Never operate vehicle with the cargo bed raised.
- 7. Operate cargo bed dump with vehicle stationary and parking brake locked. Do not dump while moving.
- 8. Operate hydraulic dump on level ground only.
- 9. Operate dump from operator's seat only.
- 10. Do not place hands or body under the cargo bed when lowering bed.

4. PARKING THE VEHICLE

- 1. Lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine, and remove the key.
- 2. Make sure that the vehicle has come to a complete stop before dismounting.
- Avoid parking on steep slopes, if at all possible park on a firm and level surface; if not, park across a slope with chock the wheels and always with attachment on the ground.
 - Failure to comply with this warning may allow the vehicle to move and could cause injury or death.

(1) Parking brake lever

1AYAAAKAP007A

5. TRANSPORTING

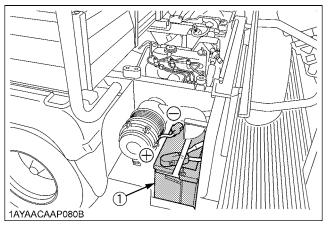
- Disengage power to attachment(s) when transporting or not in use.
- Do not tow this vehicle. Use a suitable truck or trailer when transporting on public roads.
- Use extra care when loading or unloading the vehicle into a trailer or truck.

6. SERVICING THE VEHICLE

Before servicing the vehicle, park it on a firm, flat and level surface, set the parking brake, lower all implements to the ground, place the range gear shift lever in neutral, stop the engine and remove the key.

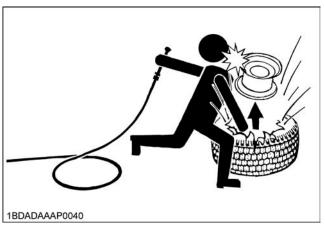
- 1. Allow the vehicle time to cool off before working on or near the engine, muffler, radiator, etc.
- 2. Always stop the engine before refueling. Avoid spills and overfilling.
- Do not smoke when working around battery or when refueling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosive hazard, because it gives off hydrogen and oxygen especially when recharging.
- 4. Before "jump starting" a dead battery, read and follow all of the instructions. (See "JUMP STARTING" in "OPERATING THE ENGINE" section.)
- 5. Keep first aid kit and fire extinguisher handy at all times.
- 6. Disconnect the battery's ground cable before working on or near electric components.
- 7. To avoid the possibility of battery explosion, do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER marks.

8. To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable (-) first and reconnect it last.



(1) Battery

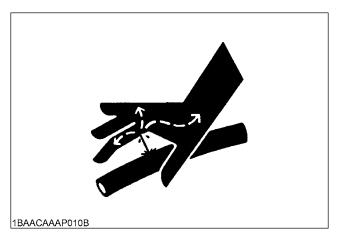
- 9. Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely. If the vehicle has a coolant recovery tank, add coolant or water to the tank, not the radiator. (See "Checking Coolant Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)
- 10. Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.
- 11. Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure shown in the operator's manual.



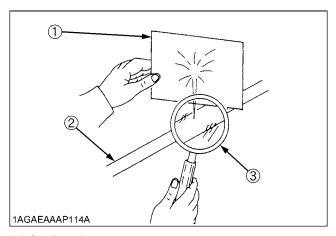
- 12. Securely support the vehicle when changing wheels.
- 13. Make sure that wheel bolts have been tightened to the specified torque.
- 14. Do not work under any hydraulically supported devices. They can settle, suddenly leak down, or be accidentally lowered. If it is necessary to work under the vehicle or any vehicle elements for servicing or adjustment, securely support them with stands or suitable blocking beforehand.

15. Escaping hydraulic fluid under pressure has sufficient force to penetrate skin causing serious personal injury. Before disconnecting hydraulic lines, be sure to release all residual pressure. Before applying pressure to the hydraulic system, make sure that all connections are tight and that all lines, pipes, and hoses are free of damage.

"High pressure fluid - Injection into body" hazard warning.



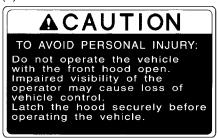
16. Fluid escaping from pinholes may be invisible. Do not use hands to search for suspected leaks; use a piece of cardboard or wood. Use of safety goggles or other eye protection is also highly recommended. If injured by escaping fluid, see a medical doctor at once. This fluid will produce gangrene or severe allergic reaction.



- (1) Cardboard
- (2) Hydraulic line
- (3) Magnifying glass
- 17. Waste products such as used oil, fuel, hydraulic fluid, and batteries, can harm the environment, people, pets and wildlife. Please dispose properly.
 See your local Recycling Center or KUBOTA Dealer to learn how to recycle or get rid of waste products.

7. DANGER, WARNING AND CAUTION LABELS

(1) Part No. K7561-6530-2



1AYAAAAAP106A

(2) Part No. K7611-6533-1



1AYAACAAP0550

(3) Part No. K7561-6565-2



1AYAAAAAP117A

(4) Part No. K7611-6544-1



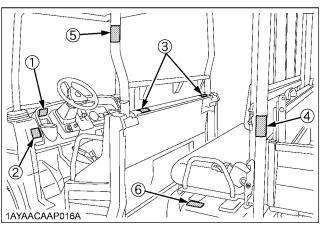
1AYAACAAP0560

(5) Part No. K7561-6541-2



(6) Part No. K7611-6584-1





1AYAACAAP0500

(1) Part No. K7611-6524-1

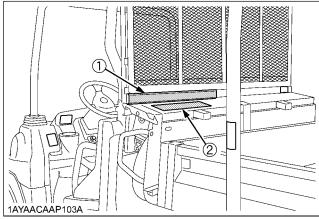
▲ DANGER	≜ WARNING	IMPORTANT
TO AVOID POSSIBLE INLUMPY OR DEATH FROM A WACHINE RUNAWAY. 1 Do not start engine by shortling across, starter terminals or bypassing the safety start switch. The vehicle may start in gear and move if normal starting criticity is bypassed. 2 Start engine only from operator's seat with range shift lever in neutral position.	1. Do not carry passengers in	1. Max cargo lead should not exceed "CBC" or "CL" (a)) ROW SEATING MODE (B)2 ROW SEATING MODE (B)2 ROW SEATING MODE (B)3 ROW SEATING MODE (B)4 ROW SEATING MODE (CBC(Cargo Bed Capacity): 300Kg(661 lb) (CLCargo Load) Defined as follows (CLCargo Load) Defined as follows (CL-730kg(1602 lb)-logaerator-one passenger (CL-730kg(1602 lb)-logaerator-passengers (CL-730kg(16

1AYAACAAP0590

(2) Part No. K7611-6589-2

SEATING CHANGE INSTRUCTIONS - Following procedures are 2-low to 1-low change. For 1-low to 2-nouvre-wise the procedure See operator's must for deaths.				▲ WARNING		
1 Unbook the upper and lower latches on both sides of the screen on both sides of the screen. 2 Slide the screen forward and book latches on both sides securely. © Upper latch © Lower latch © Screen.	the rear seat forward. 4 Push seat forward until soat latches hook up.	S.Open both cargo side penels outward after unlatching the stoppers OStopper ② Side panel	Side the gins on both sides of the front sared towards the center of the painel and secure in the notches OPin ©Front panel © Front panel	7. Fired the front carge bed down onto the frame. O Front carge bed	Fig. to the front parel and insert the stoppers sho the slit of the stop panels 9 Release the pins and insert into holes. © Front panel @Stopper @Sit @Pfin	TO AVOID PERSONAL INJURY: 1. Always lower cargo bed when changing seating. 2. Always stop engine and remove key when changing seating.

1AYAACAAP1010



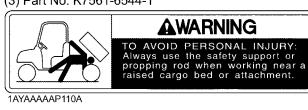
1AYAACAAP1060

(1) Part No. K7711-6117-1

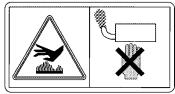


1AYAACAAP126A

(2) Part No. K7561-6550-1 (3) Part No. K7561-6544-1

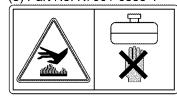


(4) Part No. K7561-6551-1

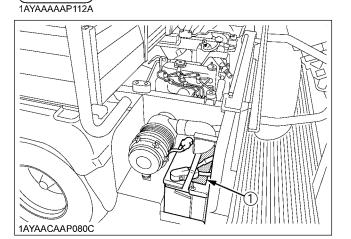


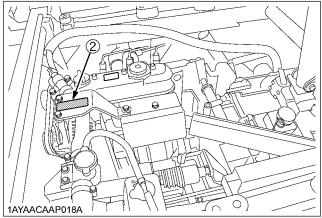
1AYAAAAAP113A

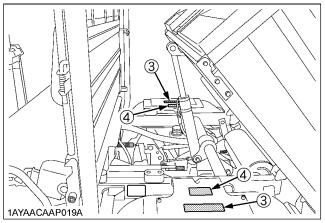
(5) Part No. K7561-6553-1

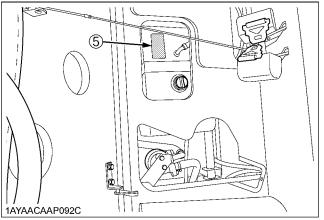


1AYAAAAAP114A









1AYAACAAP0510

(1) Part No. K7611-6522-1



1AYAACAAP0600

(2) Part No. K7561-6565-2

(5) Part No. K7611-6584-1

1AYAACAAP0570

A CAUTION

NO STEP



1AYAAAAAP117A

(3) Part No. K7581-6548-1

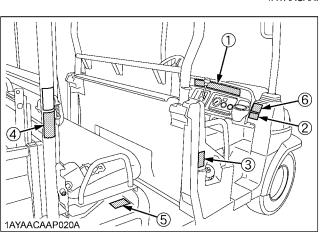


1AYAACOAP008A

(6) Part No. K7611-6557-1



1AYAACAAP1000



1AYAACAAP112A

(4) Part No. K7611-6544-1



1AYAACAAP0560

(1) Part No. K7561-6560-1



(2) Part No. K7611-6588-1

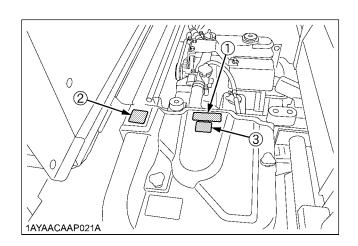


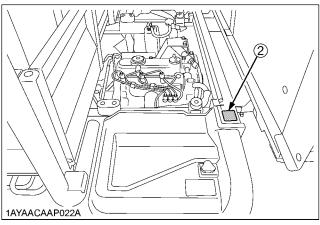
1AYAACAAP0610

(3) Part No. K7611-6555-1



1AYAACAAP0620





1AYAACAAP1070

(1) Part No. K7611-6589-2

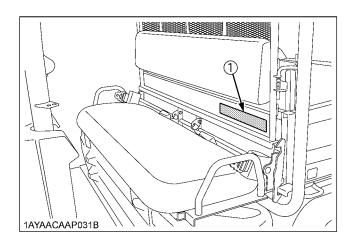
SEATING CHANGE INSTRU		Following procedures are 2-row to 1-row change.For See operator's manual for details.	1-row to 2-row,reverse the procedure.		▲ WARNING
1. Unbock the upper and lower latches on on both sides of the screen on both sides of the screen (2. Slide the screen forward and book latches on both sides securely. © Upper latch © Lower latch © Screen © Seat latch © Rear seat	5.Open both cargo side panels outward after unlatching the stoppers. (1) Stopper (2) Side panel	Side the pins on both sides of the front panel bowds the center of the panel and secure in the notices. Pin © Front panel © Front panel	7. Fold the front cargo bed down onto the frame. © Front cargo bed	B Fig up the front panel and insert the stoppers into the slit of the slide panels. 9 Release the pins and insert into holes. Of the pins and insert into holes.	TO AVOID PERSONAL INJURY: 1. Always lower cargo bed when changing seating. 2. Always stop engine and remove key when changing seating.

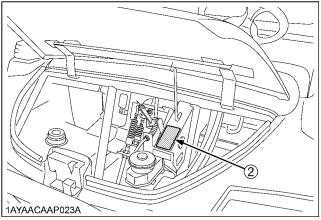
1AYAACAAP1010

(2) Part No. K7561-6546-2



1AYAAAAAP111A





1AYAACAAP0530

(1) Part No. K7561-6543-2



1AYAAADAP001E

(2) Part No. K7711-6554-1

ACAUTION

TO AVOID PERSONAL INJURY:

- 1. Before touching any part of an exhaust system, be absolutely sure that it has had sufficient time to cool.
- 2. Always wear safety goggles and a (face)mask.
- 3. The particulate matter contained in the muffler contains chemicals that are harmful to people, animal and marine life. If you are unable to do this work,
- have it done by your KUBOTA Dealer.

Maintenance

The screen type spark arrester should be removed, cleaned, and inspected after every 100 hours of use.

1. The spark arrester is located inside of the

- exhaust pipe, and is fastened with two bolts.
- 2. Unfasten the bolts and remove the spark arrester. 3. Shake loosened particles out of the screen assembly and lightly clean the screen with a wire brush. Soak in solvent and again clean with a wire brush if necessary
- 4. If any breaks in the screen or weldments are
- discovered, the assembly must be replaced. Reinstall the spark arrester in the muffler body and refasten the bolts.

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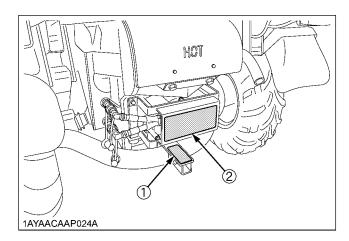
(3) Part No. K7561-6564-1

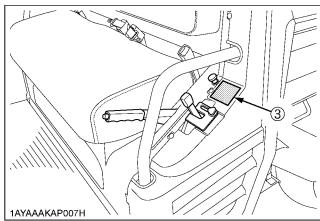
ACAUTION

TO AVOID INJURY FROM CRUSHING:

1.Do not utilize the lever lock for machine maintenance or repair. 2.The lever lock is to prevent accidental actuation.

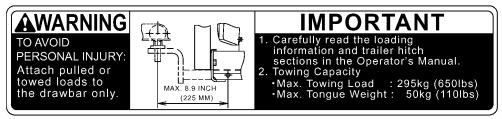
1AYAAAAAP116A



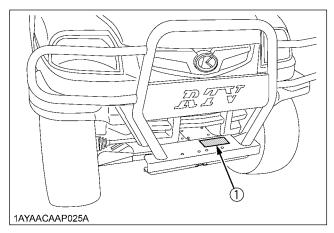


1AYAACAAP1080

(1) Part No. K7561-6542-2



1AYAAAAAP135E



1AYAACAAP0540

8. CARE OF DANGER, WARNING AND CAUTION LABELS

- 1. Keep danger, warning and caution labels clean and free from obstructing material.
- 2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
- 3. Replace damaged or missing danger, warning and caution labels with new labels from your local KUBOTA Dealer.
- 4. If a component with danger, warning and caution label(s) affixed is replaced with new part, make sure new label(s) is(are) attached in the same location(s) as the replaced component.
- 5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

SERVICING OF VEHICLE

Your dealer is interested in your new vehicle and has the desire to help you get the most value from it. After reading this manual thoroughly, you will find that you can do some of the regular maintenance by yourself.

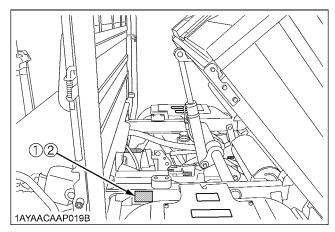
However, when in need of parts or major service, be sure to see your KUBOTA Dealer.

For service, contact the KUBOTA Dealership from which you purchased your vehicle or your local KUBOTA Dealer.

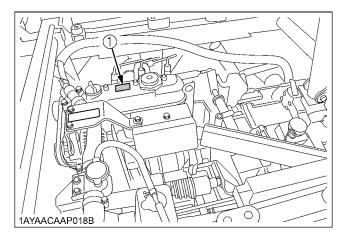
When in need of parts, be prepared to give your dealer both the vehicle and engine serial numbers.

Locate the serial numbers now and record them in the space provided.

	Туре	Serial No.
Vehicle		
Engine		
Product Identification Number		
Date of Purchase		
Name of Dealer (To be filled in by purchaser)		



- (1) Vehicle serial number
- (2) Vehicle identification number



(1) Engine serial number

SPECIFICATIONS

SPECIFICATION TABLE

Model			Worksite/Orange	Worksite/Camo		
Make				D1105		
Туре				3 cylinders, 4-cycle, diesel, OHV		
Engine	Displacem	ent	L (cu. in.)	1.123 ((68.53)	
Liigiiic	Horsepowe	er	kW (HP)	18.5 ((24.8)	
	Rated revolution		rpm	30	00	
	Low idling	revolution	rpm	1300 to	o 1400	
Fuel Capacit	у		L (U.S.gals)	30 (7.9)	
Transmission	า			Continuously variable hy	ydro transmission (VHT)	
Wheels, Driv	e system			4, Rear 2W	/D or 4WD	
Differential lo	ock			Standard; foot operated	with mechanical holder	
Gear selection	on			Hi-Med-Lo range forv	vard, neutral, reverse	
Brakes	Front / Rea	ar		Wet dis	k brake	
Diakes	Parking bra	ake		Rear wheel, hand lever		
Steering				Hydrostatic power		
Suspension Front			Independent, macpherson strut-type			
Odspension	Rear			Semi-independent, DeDion axle w/leaf springs and shock absorb		
	Length		mm (in.)	3480 (137.0)	
	Width		mm (in.)	1550	(61.0)	
	Height, ove	erall	mm (in.)	2000	(78.7)	
	Front tread	l centers	mm (in.)	1150 (45.3) 1180 (46		
Dimensions	Dimensions Rear tread centers		mm (in.)	1180 (46.5) 1210 (47		
	Wheelbase)	mm (in.)	2415	(95.1)	
	Ground front a		(:)	190	(7.5)	
clearance	clearance	rear axle	mm (in.)	190	(7.5)	
	Turning diameter		m (ft)	ft) 10 (32.8)		
	Max. rolling weight (Towing Capacity)		kg (lbs.)	590 (1300)		
Payload cap	acity		kg (lbs.)	730 (1609)		
Weight			kg (lbs.)	1075 (2370)		

Model			Worksite/Orange	Worksite/Camo
Width mm (in.)			1320	(52)
Length (1 row/2 row)		mm (in.)	1360 (53.5) / 860 (33.9)	
Cargo bed	Depth	mm (in.)	290 (11.4)	
	Volume (1 row/2 row) m³ (cu.ft.		0.53 (18.7) / 0.33 (11.7)	
	Bed height (unloaded) mm (in.)		850 (33.5)	
	Cargo bed capacity (1 row/2 row) kg (lbs.)		500 (1102) / 300 (661)	
Sound level, operator ear db (A)		85		
Front Tires Rear		25x10-12 HDWS, 6PLY 25x10-12 ATV, 6PLY 25x12-12 Turf, 4PLY	25x10-12 HDWS, 6PLY 25x10-12 ATV, 6PLY	
			25x10-12 HDWS, 6PLY 25x11-12 ATV, 6PLY 25x12-12 Turf, 4PLY	25x10-12 HDWS, 6PLY 25x11-12 ATV, 6PLY
Front deluxe guard			Std.	Std.
Body color			Orange	Camo
Bed lift			Std.	Std.
Speedomete	er		Std.	Std.

- 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.

TRAVELING SPEEDS

Range gear shift lever	km/h (mph)
Low	13 (8)
Medium	25 (16)
High	40 (25)
Reverse	16 (10)

VEHICLE LIMITATIONS

The KUBOTA Vehicle has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which are not sold or approved by KUBOTA and which exceed the maximum specifications listed below, or which are otherwise unfit for use with the KUBOTA Vehicle may result in malfunctions or failures of the vehicle, damage to other property and injury to the operator or others. [Any malfunctions or failures of the vehicle resulting from use with improper implements are not covered by the warranty]

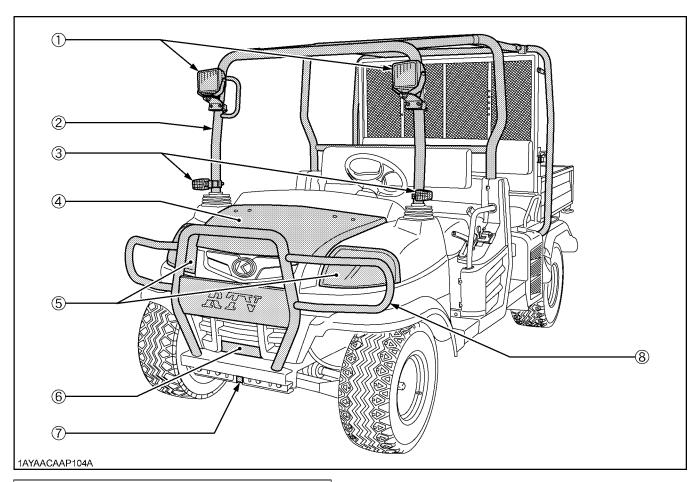
Max. Cargo loading weight (W1)	Rear trailer hitch	Front trailer hitch	
Max. Cargo load should not exceed "CBC" or "PCL". [1 ROW SEATING MODE] CBC: 500 kg (1100 lbs.) PCL = 730 kg (1609 lbs.) - (operator + one passenger + opt. + acc.) weight	Max. rolling weight (W2) 590 kg (1300 lbs.)	Max. rolling weight (W4) 295 kg (650 lbs.)	
[2 ROW SEATING MODE] CBC: 300 kg (661 lbs.) PCL = 730 kg (1609 lbs.) - (operator + passengers + opt. + acc.) weight CBC: Cargo Bed Capacity PCL: Permissible Cargo Load	Max. tongue weight (W3) 50 kg (110 lbs.)	Max. tongue weight (W5) 50 kg (110 lbs.)	
opt.: option acc.: accessory			
1AYAACAAP026A W2 W4			

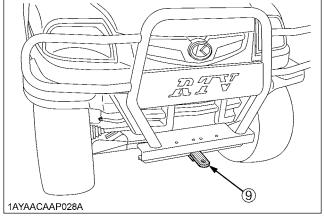
Rolling weight: Trailer weight + Cargo Load

Above mentioned specifications are based on level ground condition.

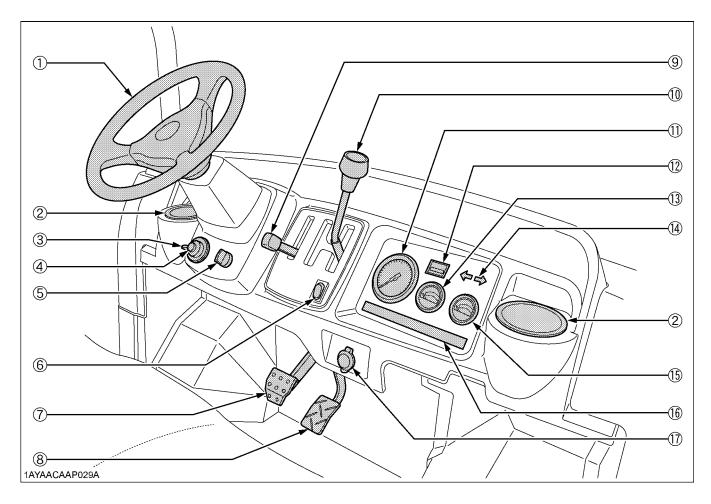
INSTRUMENT PANEL AND CONTROLS

LOCATION OF PARTS





(1) Work light (if equipped)	18
(2) ROPS	
(3) Hazard / Turn signal light (if equipped)	16, 16
(4) Front hood	44
(5) Headlights	16
(6) Winch mount plate	37
(7) Front trailer hitch bracket	36
(8) Front guard	
(9) Front trailer hitch (if equipped)	36



ILLUSTRATED CONTENTS

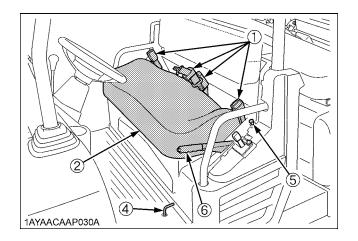
(1) Steering wheel..... --

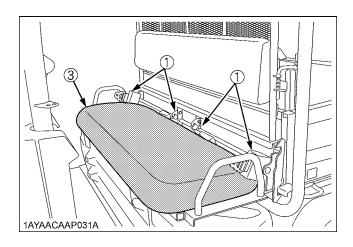
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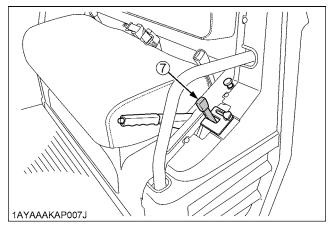
(2) Cup holder. - (3) Head light switch. 16 (4) Horn button. 17 (5) Key switch. - (6) Hazard light switch (if equipped). 16 (7) Brake pedal. 18 (8) Speed control pedal. 20

(9) 4WD lever.....

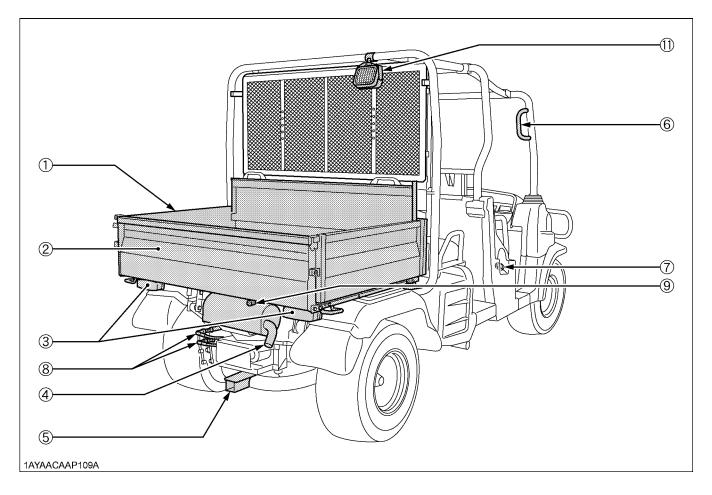
(10) Range gear shift lever	19
(11) Speedometer	22
(12) Hourmeter	22
(13) Coolant temperature gauge	22
(14) Hazard / Turn signal indicator (if equipped)	16, 16
(15) Fuel gauge	21
(16) Easy Checker(TM)	21
(17) 12V accessory plug	23

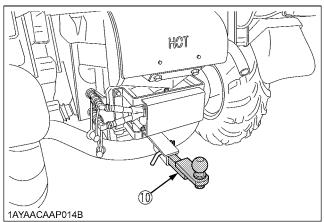






(1) Seat belts	15
(2) Seat (Front)	44
(3) Seat (Rear)	
(4) Differential lock pedal	24
(5) Differential lock holder	24
(6) Parking brake lever	23
(7) Hydraulic lift cylinder lever	33





ILLUSTRATED CONTENTS

(1) Cargo bed	29
(2) Tailgate	32
(3) Tail lamp (Combination lamp if equipped)	16
(4) Muffler	60
(5) Rear trailer hitch bracket	36
(6) Handarin	

(7) Fuel tank cap	46
(8) Hydraulic outlet for lift cylinder	33
(9) Backup beeper (if equipped)	52
(10) Rear trailer hitch (if equipped)	36
(11) Work light (if equipped)	18

PRE-OPERATION CHECK

DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the vehicle well. Check it before starting.



CAUTION

To avoid personal injury:

 Be sure to check and service the vehicle on a level surface with the engine shut off and the parking brake "ON" and implement lowered to the ground if equipped.

Check item

- Walk around inspection
- Check engine oil level
- Check transmission fluid level
- Check hydraulic tank oil level
- Check brake fluid level
- Check coolant level
- Clean radiator screen (When used in a dusty place)
- Check brake and pedal
- Check parking brake
- Check indicators, gauges and meters
- Check lights
- Check seat belts and ROPS
- Check front and rear joint boots
- Check tire inflation pressure
- Check backup beeper (if equipped)
- Refuel

(See "DAILY CHECK" in "PERIODIC SERVICE" section.)

 Care of danger, warning and caution labels
 (See "DANGER, WARNING AND CAUTION LABELS" in "SAFE OPERATION" section.)

OPERATING THE ENGINE



CAUTION

To avoid personal injury:

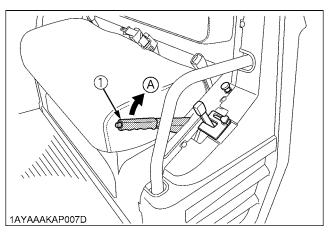
- Read "SAFE OPERATION" in front of this manual.
- Read the danger, warning and caution labels located on the vehicle.
- To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.
- Never start engine while standing on ground.
 Start engine only from operator's seat.
- Make it a rule to set range gear shift lever to the "NEUTRAL" position and to place the hydraulic lift cylinder lever to the "NEUTRAL" position before starting the engine.

IMPORTANT:

- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.

STARTING THE ENGINE

1. Make sure the parking brake is set.

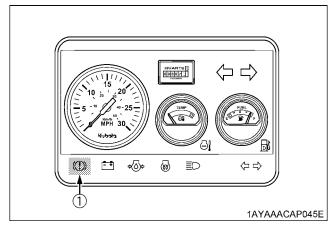


(1) Parking brake lever

(A) Pull to "PARK"

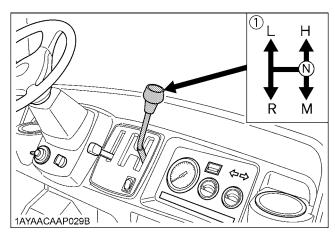
NOTE:

 The parking brake warning lamp comes on while parking brake is applied and goes off when it is released.

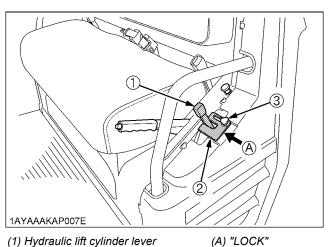


(1) Parking brake warning lamp

2. Set the range gear shift lever to the "NEUTRAL" position.

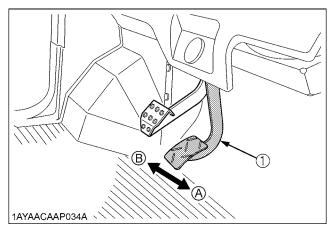


- (1) Range gear shift lever (H) HIGH Range
- (M) MEDIUM Range
- (L) LOW Range
- (R) "REVERSE"
- (N) "NEUTRAL" POSITION
- 3. Lock the hydraulic lift cylinder lever to the "NEUTRAL" position with a restricting plate by tightening knob bolt.



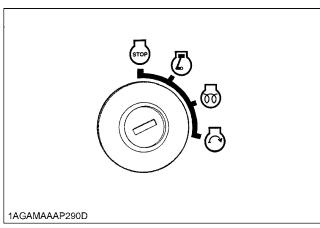
- (1) Hydraulic lift cylinder lever
- (2) Restricting plate
- (3) Knob bolt

4. Push the speed control pedal down about 1/2 way.



- (1) Speed control pedal
- (A) "INCREASE"
- (B) "DECREASE"

5. Insert the key into the key switch and turn it "ON".

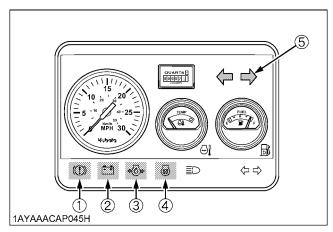


- (♠) "OFF" (Engine-Stop) (©) "ON" (Engine-Run)
- (6) "GLOW" (Preheat)
- (₺) "START" (Engine-Start)

◆ Check Easy Checker(TM) Lamps:

- 1. When the key is turned "ON", lamps(2)(3) should come on. If trouble should occur at any location while the engine is running, the warning lamp corresponding to that location comes on.
- The parking brake warning lamp(1) comes on while parking brake is applied and goes off when it is released.

If the parking brake is released but the lamp stays on, it means that the brake fluid may be low or the brake system may be damaged. (See "Checking Brake Fluid Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)



- (1) Parking brake / Brake fluid
- (2) Electrical charge
- (3) Engine oil pressure
- (4) Glow plug
- (5) Hazard / Turn signal (if equipped)

IMPORTANT:

 Daily checks with the Easy Checker(TM) only, are not sufficient. Never fail to conduct daily checks carefully by referring to "DAILY CHECK" in "PERIODIC SERVICE" section.

6. Turn the key to "PREHEAT" position and hold it for the preheating.

For the appropriate preheating time, refer to the table below:

Temperature	Preheating Time
Over 0 °C (32 °F)	2 to 3 sec.
0 to -5 ℃ (32 to 23 ℉)	5 sec.
-5 to -15 ℃ (23 to 5 ℉)	10 sec.
Limit of continuous use	30 sec.

NOTE

 Glow plug indicator(4) comes on while key switch is in the "GLOW" position or "START" position.

7. Turn the key to "START" position and release when the engine starts.

IMPORTANT:

 Because of safety devices, the engine will not start except when the range gear shift lever is placed in the "NEUTRAL" position.

■Cold Weather Starting

■Block Heater

[if equipped]

A block heater is available as an option from your dealer. It will assist you in starting your vehicle when the ambient temperature is below $-20 \,^{\circ}\text{C} \,(-4 \,^{\circ}\text{F})$.

8. Check to see that all the lamps on the Easy Checker(TM) are "OFF".

If any lamp stays on, immediately stop the engine and determine the cause.

STOPPING THE ENGINE

- 1. After slowing the engine to idle, turn the key to "OFF".
- 2. Remove the key.

WARMING UP



CAUTION

To avoid personal injury:

- Be sure to set the parking brake during warmup.
- Be sure to set the range shift lever to the "NEUTRAL" position and lock the hydraulic lift cylinder lever to the "NEUTRAL" position with restricting plate during warm-up.

For 5 minutes after engine start-up, allow the engine to warm up without applying any load. This is to allow oil to reach every engine part. If load should be applied to the engine without this warm-up period, trouble such as seizure, breakage or premature wear may develop.

■Warm-Up Transmission Oil in the Low Temperature Range

Hydraulic oil serves as transmission fluid. In cold weather, the oil may be cold with increased viscosity. This can cause delayed oil circulation or abnormally low hydraulic pressure for some time after engine start-up. This in turn can result in trouble in the hydraulic system.

To prevent the above, observe the following instructions: Warm up the engine at about 50% of rated rpm according to the table below:

Ambient temperature	Warm-up time requirement
Above 0 ℃ (32 °F)	Approx. 5 minutes
-10 to 0 ℃ (14 to 32 ℉)	5 to 10 minutes
-20 to -10 ℃ (-4 to 14 ℉)	10 to 15 minutes
Below -20 ℃ (-4 °F)	More than 15 minutes

IMPORTANT:

 Do not operate the vehicle under full load condition until it is sufficiently warmed up.

JUMP STARTING



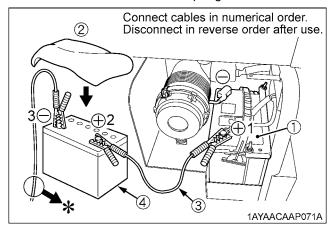
CAUTION

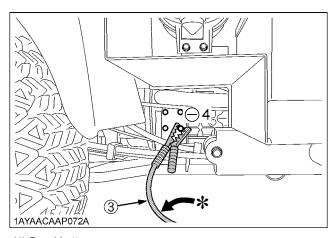
To avoid personal injury:

- Battery gases can explode. Keep cigarettes, sparks, and flames away from battery.
- If vehicle battery is frozen, do not jump start engine.
- Do not connect other end of negative jumper cable to negative terminal of vehicle battery.

When jump starting engine, follow the instructions below to safely start the engine.

- Bring helper vehicle with a battery of the same voltage as disabled vehicle within easy cable reach. "THE VEHICLES MUST NOT TOUCH".
- 2. Engage the parking brake of both vehicles and put the shift lever in neutral. Shut the engine off.
- 3. Put on safety goggles and rubber gloves.
- Ensure the vent caps are securely in place. (if equipped)
- Cover vent holes with damp rags. Do not allow the rag to touch the battery terminals.
- 6. Attach the red clamp to the positive (red, (+) or pos.) terminal of the dead battery and clamp the other end of the same cable to the positive (red, (+) or pos.) terminal of the helper battery.
- 7. Clamp the other cable to the negative (black, (-) or neg.) terminal of the helper battery.
- Clamp the other end to the engine block or frame of the disabled vehicle as far from the dead battery as possible.
- 9. Start the helper vehicle and let its engine run for a few moments. Start the disabled vehicle.
- 10. Disconnect the jumper cables in the exact reverse order of attachment. (Steps 8, 7 and 6).
- 11. Remove and discard the damp rags.





- (1) Dead battery
- (2) Lay a damp rag over the vent caps
- (3) Jumper cables
- (4) Helper battery

IMPORTANT:

- This vehicle has a 12 volt negative (-) ground starting system.
- Use only same voltage for jump starting.
- Use of a higher voltage source could result in severe damage to vehicle's electrical system.
 - Use only matching voltage source when "Jump starting" a low or dead battery.

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.

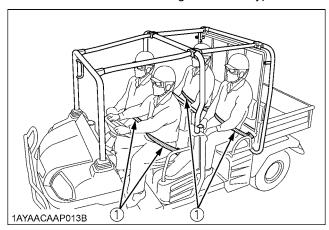


CAUTION

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

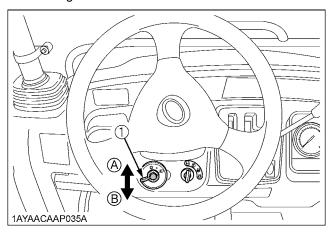
2. Selecting light switch position.

■ Head Light Switch

The head light switch is operative when the key switch is in the "ON" position.

Turn on the key switch and turn the head light switch to the "ON" position.

Turn the head light switch to the "OFF" position to turn off the head light.



(1) Head light switch

(A)

☐ Head lights "ON"(B) Head lights "OFF"

NOTE:

- Turning the head light switch to the "ON" position causes the following lamps to light simultaneously.
 - (1) Tail lights (lamps at the rear portions of the vehicle)
 - (2) Lamp built in the coolant temperature gauge
 - (3) Lamp built in the fuel gauge
 - (4) Lamp built in the speedometer

■ Hazard Light Switch

[if equipped]

Press the top half of the hazard light switch, the hazard light flash along with the indicator on the instrument panel. Press the bottom half of the hazard light switch to turn off the hazard light.

NOTE:

 The hazard light switch is operative when the key switch is in either the "ON" or "OFF" position.
 Be careful that leaving the switch "ON" causes the battery to run out.

■Turn Signal Light Switch

[if equipped]

To indicate a right turn, turn the turn signal light switch clockwise.

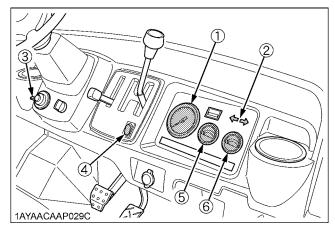
To indicate a left turn, turn the turn signal light switch counterclockwise.

When the left or right signal is activated, the indicated turning light will flash and the other will stay on.

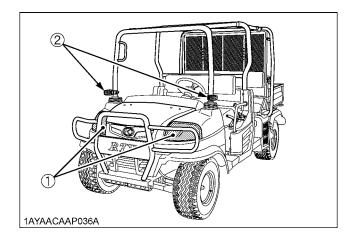
The indicator lamp at the instrument panel also flashes like the above.

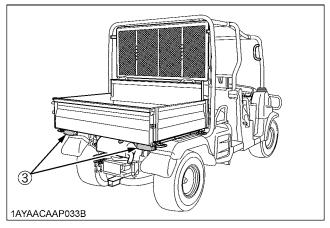
NOTE:

- The turn signal light switch is only operative when the key switch is in the "ON" position.
 - If the hazard light switch is pressed to the "ON" position while the turn signal is activated, the indicated turning light will flash and the other will stay on.
- Be sure to return switch to center position after turning.



- (1) Speedometer
- (2) Hazard / Turn signal indicator (if equipped)
- (3) Turn signal light switch (if equipped)
- (4) Hazard light switch (if equipped)
- (5) Coolant temperature gauge
- (6) Fuel gauge



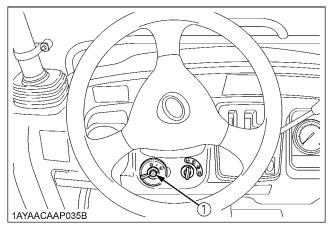


- (1) Head light
- (2) Hazard / Turn signal light (if equipped)
- (3) Tail lamp (Combination lamp if equipped)

■Horn Button

The horn switch is operative when the key switch is in either the "ON" or "OFF" position.

The horn will sound when the horn button is pressed.



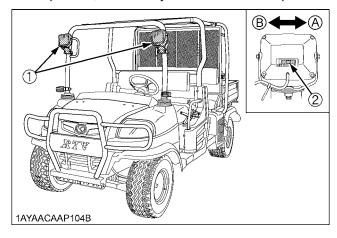
(1) Horn button

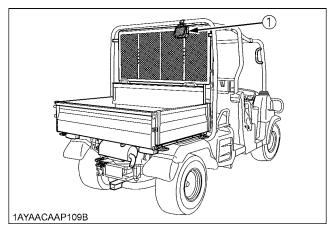
■Work Light (Front/Rear)

[if equipped]

When the key switch is turned to the "ON" position and the slide switch at the rear of each work light is slid to the "ON" position, the work light comes on. When the slide switch is slid to the "OFF" position, the light goes off.

After the slide switch for each work light is shifted to the "OFF" position, turn the key switch to the "OFF" position.





- (1) Work light (if equipped)
- (2) Work light switch (if equipped)
- (A) "ON"
- (B) "OFF"

3. Checking the brake pedal.

■Brake Pedal

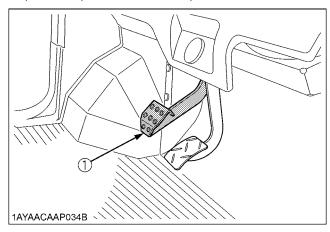


CAUTION

To avoid personal injury:

- If the operator suddenly brakes, an accident may occur due to loss of control or the shifting forward of heavy loads.
- When driving on icy, wet or loose surface, make sure the vehicle is correctly ballasted to avoid skidding and loss of steering control. Operate at reduced speed.

The brake pedal is the left pedal on the foot board. Depress the pedal to slow or stop the vehicle.



(1) Brake pedal

4. Selecting the travel speed.

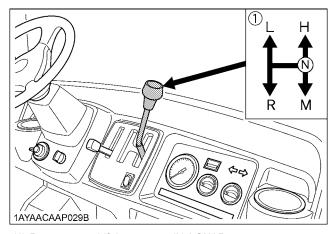
■Range Gear Shift Lever



CAUTION

To avoid personal injury:

- Avoid changing range gear shift lever when ascending or descending a slope.
- Before ascending or descending a slope, shift to the "L" range to control the vehicle speed.
- If you shift gears while ascending or descending a slope, be prepared to use the brake to maintain control.
- Operate in reverse at slow speeds to maintain control.
- 1. The range gear shift lever can only be shifted when vehicle is completely stopped and the speed control pedal is in the "NEUTRAL" position.
- 2. To avoid transmission and shift linkage damage, completely stop the vehicle using the brake pedal before shifting gears.
- 3. Select proper gear and engine speed depending on the type of job.
- Before dismounting vehicle, shift the range gear shift lever to the "NEUTRAL" position and set parking brake.



- (1) Range gear shift lever
- (H) HIGH Range
- (M) MEDIUM Range
- (L) LOW Range
- (R) "REVERSE"
- (N) "NEUTRAL" POSITION

NOTE

- When range gear shift lever is hard to engage, do not force the lever. Set the parking brake, slightly depress the speed control pedal and release it to neutral position, then shift the lever.
 - When the lever is hard to disengage, do not force the lever.
 - Depress the brake pedal fully, then shift the lever.
- An accident may occur with erratic shifting operation.
- Improper range gear shift lever position will cause the vehicle to momentarily coast on slopes.

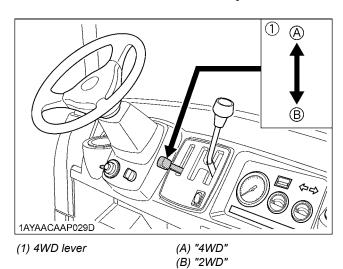
■4WD Lever



CAUTION

To avoid personal injury:

- Do not engage the front wheel drive when traveling at road speed.
- When driving on icy, wet or loose surfaces, make sure the vehicle is correctly ballasted to avoid skidding and loss of steering control.
 Operate at reduced speed and engage front wheel drive.
- An accident may occur if the vehicle is suddenly braked, such as by heavy towed loads shifting forward causing loss of control.
- The braking characteristics are different between two and four wheel drive. Be aware of the difference and use carefully.



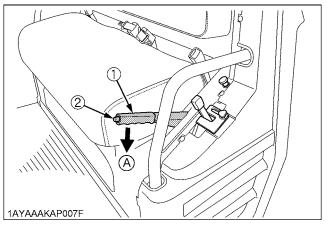
IMPORTANT:

- Use the lever to engage the front wheels with the vehicle stopped. Shift the lever to "4WD" to engage the front wheel drive.
- Tires will wear quickly if front wheel drive is engaged on paved roads.
- If the 4WD lever is difficult to shift to "2WD", stop the vehicle, turn the steering wheel in both directions and then move the lever.
- Front wheel drive is effective for the following jobs:
- 1. When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a front-end blade.
- 2. When working in sandy soil.

5. Unlock the parking brake and start slowly.

■Parking Brake Lever

To release the parking brake, depress the brake pedal, push release button and push down parking brake lever. Make sure that indicator in the Easy Checker(TM) goes off.

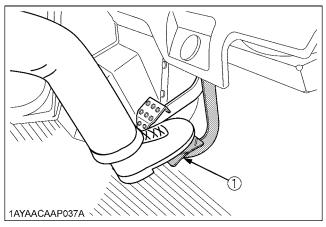


- (1) Parking brake lever
- (2) Release button

(A) "RELEASE"

■Speed Control Pedal

Use the speed control pedal when traveling. Push down on it for higher speed.



(1) Speed control pedal

STOPPING

■Stopping

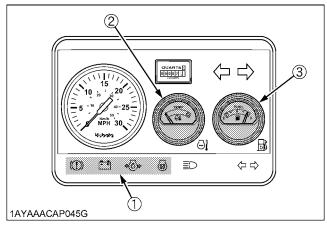
- 1. Release the speed control pedal.
- 2. Step on the brake pedal.
- 3. After the vehicle has stopped, put the range gear shift lever in neutral, and set the parking brake.

CHECK DURING DRIVING

■Immediately Stop the Engine if:

- The engine suddenly slows down or accelerates,
- Unusual noises are suddenly heard,
- Exhaust fumes suddenly become very dark,

While driving, check the following items to see that all the parts are functioning normally.



- (1) Easy Checker(TM)
- (2) Coolant temperature gauge
- (3) Fuel gauge

■Easy Checker(TM)

If the warning lamps in the Easy Checker(TM) come on during operation, immediately stop the engine, and find the cause as shown below.

Never operate the vehicle with an Easy Checker(TM) lamp on.

Engine oil pressure

If the oil pressure in the engine goes below the prescribed level, the warning lamp in the Easy Checker(TM) will come on.

If this should happen during operation, and it does not go off when the engine is accelerated, check level of engine oil.

(See "Checking Engine Oil Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

Electrical charge

If the alternator is not charging the battery, the Easy Checker(TM) will come on.

If this should happen during operation, check the electrical charging system or consult your local KUBOTA Dealer.

(1) Alarm against low brake fluid level or parking brake operation.

The warning lamp in the Easy Checker(TM) comes on if the parking brake is applied.

If the lamp is on during operation, release the parking brake lever immediately.

If the brake fluid goes below the prescribed level, the warning lamp in the Easy Checker(TM) will come on. If this should happen during operation, check to see that there is no oil leak in the brake system, and then add oil.

(See "Checking Brake Fluid Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

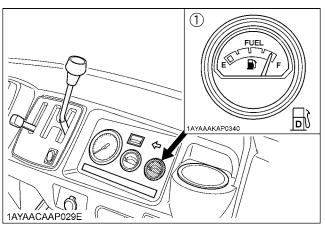
■Fuel Gauge

Park the vehicle on a flat place.

When the key switch is "ON", the fuel gauge indicates the fuel level.

Be careful not to empty the fuel tank. Otherwise air may enter the fuel system.

Should this happen, the system should be bled. (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)



(1) Fuel gauge

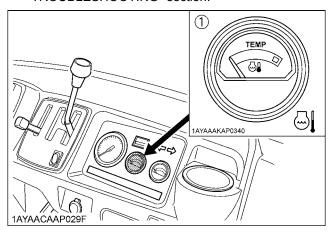
■Coolant Temperature Gauge



CAUTION

To avoid personal injury:

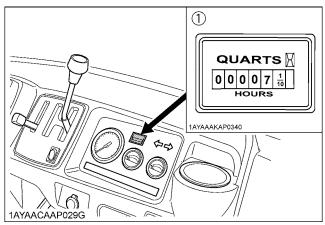
- Do not remove radiator cap until coolant temperature is well below its boiling point.
 Then loosen cap slightly to the stop to relieve any pressure before removing cap completely.
- 1. With the key switch "ON" the temperature gauge indicates the temperature of the coolant. White Zone for "cold" and Red zone for "hot".
- 2. If the indicator reaches the Red zone, engine coolant is overheated. Check the vehicle by referring to "TROUBLESHOOTING" section.



(1) Coolant temperature gauge

Hourmeter

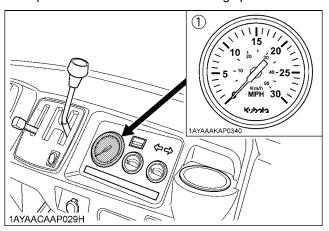
The hourmeter indicates in five digits the hours the vehicle has been used; the last digit indicates 1/10 of an hour.



(1) Hourmeter

■Speedometer

The speedometer indicates the traveling speed.



(1) Speedometer

PARKING

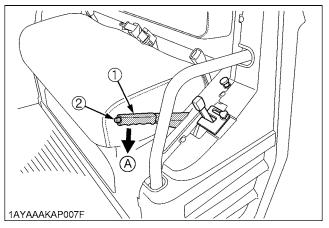
■Parking Brake Lever



CAUTION

To avoid personal injury: Before dismounting vehicle

- Always set parking brake and lower all implements to the ground.
 Leaving transmission in gear with the engine stopped will not prevent from rolling.
- Stop the engine and remove the key.
- 1. Stop the vehicle on a level surface.
- 2. To set the parking brake, depress the brake pedal and pull the lever to park.
- 3. To release the parking brake, push release button and push down the parking brake lever. When the parking brake is released, the parking brake warning lamp in the Easy Checker(TM) goes off.



- (1) Parking brake lever
- (2) Release button

(A) "RELEASE"

IMPORTANT:

 If the vehicle is operated with the parking brake applied, the parking brake will be damaged.

ACCESSORY

■12V Electric Outlet

The 12 volt receptacle is located on the front-panel. An auxiliary light or other devices may be connected to this connector.

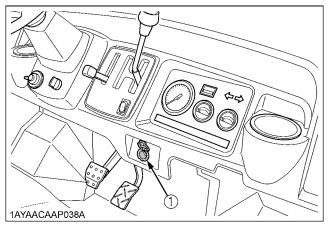
◆ This outlet is activated when the key switch is in either the "ON" or "OFF" position.

When the plug is not used, pull it out. Be careful that leaving the plug inserted causes the battery to run out.

◆ Do not connect a light or other device that draws more than 120 watts to this connector, or the battery may discharge very rapidly or the outlet may fail.

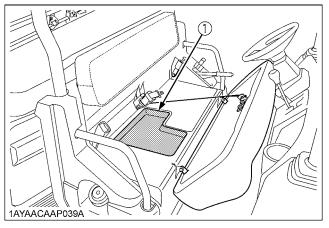
IMPORTANT:

- Do not use as a cigarette lighter.
- Do not use when wet.



(1) 12V electric outlet

■Utility Box



(1) Utility Box

OPERATING TECHNIQUES

■ Differential Lock



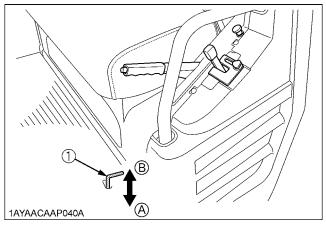
WARNING

To avoid personal injury due to loss of steering control:

- Do not operate the vehicle at high speed with differential lock engaged.
- Do not attempt to turn with the differential lock engaged.
- Be sure to release the differential lock before making a turn in field conditions.

If one of the rear wheels should slip, step on the differential lock pedal. Both wheels will then turn together, reducing slippage.

Differential lock is maintained while the pedal is depressed or may be held by using differential lock holder.

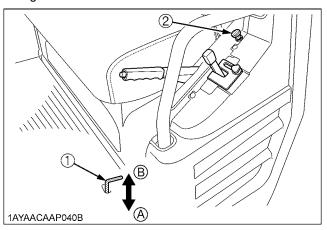


(1) Differential lock pedal

(A) Press to "ENGAGE"
(B) Release to "DISENGAGE"

♦ Handling the retaining device for differential lock

- 1. Pull the differential lock holder while the differential lock pedal is depressed.
- 2. The differential lock is then maintained even if your foot leaves the pedal.
- 3. The lock is released when the pedal is depressed again.



- (1) Differential lock pedal(2) Differential lock holder
- (A) Press to "ENGAGE"(B) Depress to release again "DISENGAGE"

IMPORTANT:

- When using the differential lock, always slow the engine down.
- To prevent damage to power train, do not engage differential lock when one wheel is spinning and the other is completely stopped.
- If the differential lock cannot be released, stop the vehicle, turn the steering wheel alternately.

■ Directions for Use of Power Steering

- Power steering is activated only while the engine is running. While the engine is stopped, the vehicle functions in the same manner as vehicle without power steering.
- 2. When the steering wheel is turned all the way to the stop, the relief valve is activated. Do not hold the steering wheel in this position for a long period of time.
- 3. Avoid turning the steering wheel while the vehicle is stopped, or tires may wear out sooner.
- 4. The power steering mechanism makes the steering easier. Be careful when driving at high speeds.

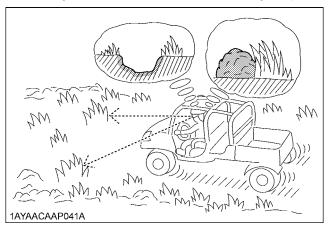
■Unfamiliar Terrain



CAUTION

To avoid personal injury:

- Be sure to check for hidden obstacles or hazards before driving in a new area.
- Keep your speed down until you know the area well.
- Use existing trails and stay away from hazardous areas such as steep, rocky slopes or swamps.
- Be cautious when visibility is limited, as you may not be able to see obstacles in your path.

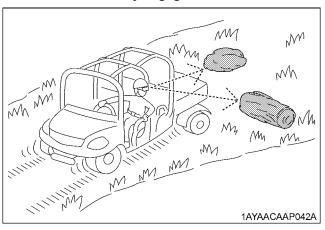


■Driving in Reverse



CAUTION

- Turn around, look down and behind you before backing up to be sure there are no obstacles or people in your way.
- Depress speed control pedal gradually and back up cautiously.
- To stop while driving in reverse take your foot off the speed control pedal and gradually apply the brake.
- Do not suddenly engage the brake.



■Driving in "4WD"

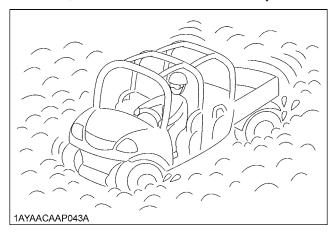


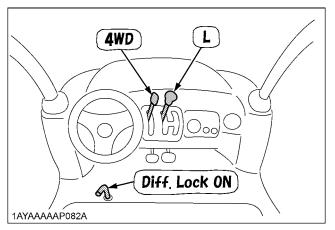
CAUTION

To avoid personal injury:

• Do not drive in "4WD" on paved surfaces.

For maximum traction, shift the range gear shift lever into low range and use "4WD" on steep slopes or when stuck in the mud, with differential locked if necessary.



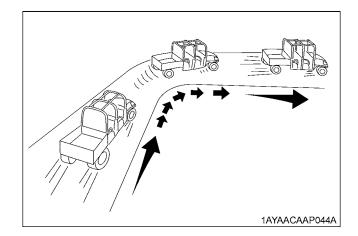


■Turning the Vehicle



WARNING

- Reduce vehicle speed before entering the turn and maintain an even speed through the turn.
- Do not make sharp turns in order to avoid loss of control or tipping.



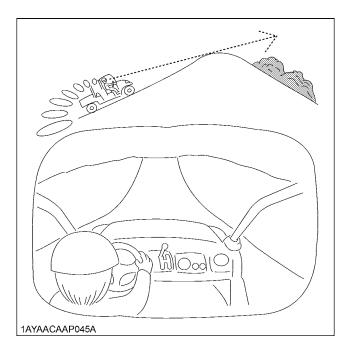
Hills

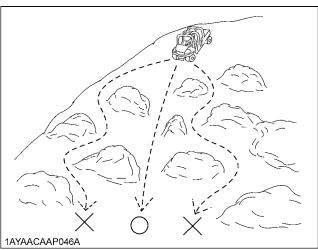


WARNING

To avoid personal injury:

- Do not turn sideways on a hill, or the vehicle may roll over.
- Always go straight up hill or down hill.
- Slow down until you can get a clean view of the other side at the crest of a hill.
- If the engine stalls on a steep slope, roll slowly straight down, using the brake.
- Stop and look for obstacles before descending a hill.





■Traversing Hillsides



WARNING

To avoid personal injury:

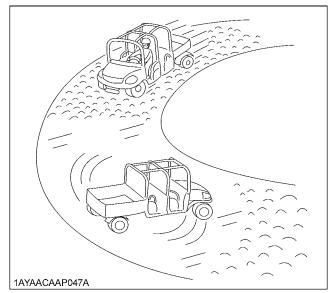
- Reduce vehicles speed to prevent tipping or loss of control.
- Do not traverse hillsides that are slippery or covered with rocks or obstacles which may cause you to tip over.

■ Sliding and Skidding



WARNING

- Drive slowly and carefully when you are unsure or unprepared for the surface.
- Do not apply heavy braking force or accelerate when skidding to prevent loss of control.
- Use 4WD and maintain low speeds on areas covered with clay, mud, ice or snow to prevent uncontrolled skidding.

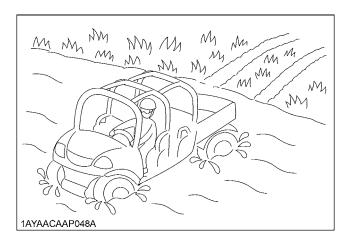


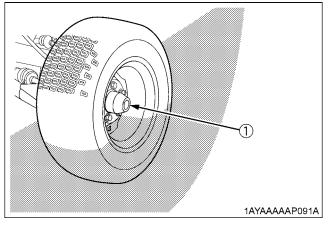
■Driving through Water



WARNING

- Do not drive through water whenever it is possible.
- Drive slowly across shallow water and choose a location to enter and exit the water where the banks are not too steep or slippery.
- Check before entering for rocks, holes or other obstacles that may cause overturn, become stuck or submerged.
- Never operate the vehicle in the fast flowing water or in water deeper than bottom edge of the axle caps.





(1) Axle cap

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)			500 kg (1100 lbs) - W
	95 kg (209 lbs)	95 kg (209 lbs)	W: weight	500 kg (1100 lbs) - W
	95 kg (209 lbs)		Blade	300 kg (661 lbs) - W
2 row seating mode	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)	Winch	300 kg (661 lbs) - W
1AYAACAAP076A	95 kg (209 lbs)	95 kg (209 lbs) 95 kg (209 lbs) 95 kg (209 lbs)		300 kg (661 lbs) - W

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)
------------------	----------	------------

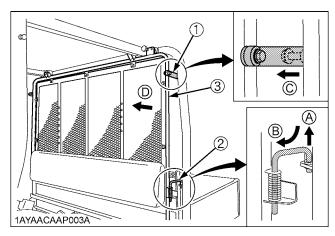
CHANGING SEATING AND CARGO BED



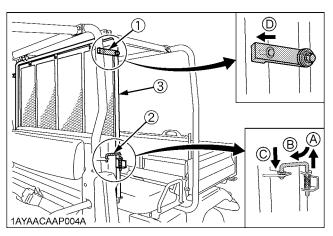
CAUTION

To avoid personal injury:

- Be sure to lower the cargo bed, stop the engine and apply the parking brake before changing seating and cargo bed.
- ♦ 2 row seating to 1 row seating
- 1. Unhook the upper and lower latches on both sides of the screen, and slide the screen forward.

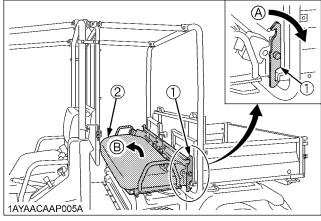


- (1) Upper latch
- (2) Lower latch
- (3) Screen
- (A) "PULL"
- (B) "TURN"
- (C) "PULL"
- (D) "FORWARD"
- 2. Hook the upper and lower latches on both sides securely.



- (1) Upper latch
- (2) Lower latch
- (3) Screen
- (A) "PULL"
- (B) "TURN"
- (C) "RELEASE"
- (D) "PUSH"

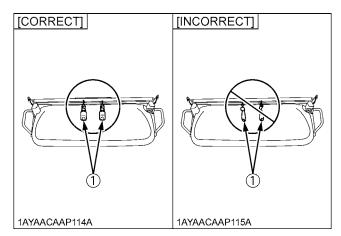
3. Unhook the seat latches and flip up the rear seat forward.



- (1) Seat latch
- (A) "UNHOOK"
- (2) Rear seat
- (B) "FLIP UP"

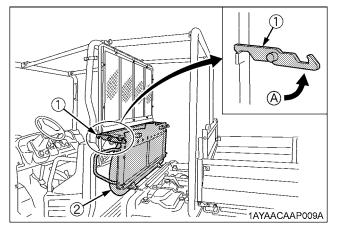
IMPORTANT:

 To avoid damage to the rear seat, make sure that the seat belt receivers are set level against the seat as shown in the left-side figure below.

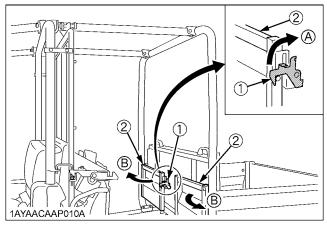


(1) Seat belt receiver

4. Push rear seat forward until seat latches hook up securely.

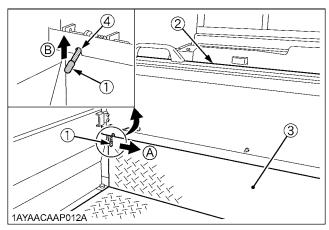


- (1) Seat latch
- (A) "HOOK UP"
- (2) Rear seat
- 5. Open both cargo side panels outward after unlatching the stoppers, and align straight for next step.



- (1) Stopper
- (2) Cargo side panel
- (A) "UNLATCH"
- (B) "OPEN"

6. Pull out the pins on both sides of the front panel and front cargo bed and hold on the notches securely.



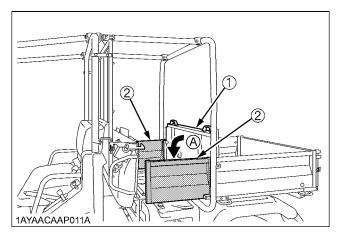
- (1) Pin
- (2) Front panel
- (3) Front cargo bed
- (4) Notch

- (A) "PULL OUT"
- (B) "HOLD ON"



CAUTION
To avoid personal injury:

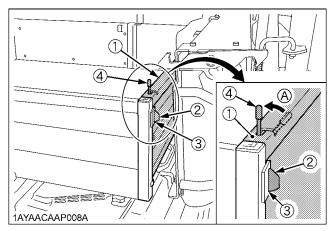
- Be sure to hold the front panel and front cargo bed when pulling out pins by grabbing handle by hand.
- 7. Fold down front panel and front cargo bed on the frame.



- (1) Front cargo bed
- (2) Cargo side panel

(A) "FOLD DOWN"

8. Flip up front panel and insert stoppers into the slit on both sides.



- (1) Front panel
- (A) "RELEASE"
- (2) Stopper
- (3) Slit
- (4) Pin
- Release pins on both sides and insert into the holes securely.
- ◆ 1 row seating to 2 row seating Reverse above procedure.

■Cargo Bed Tailgate



CAUTION

To avoid personal injury:

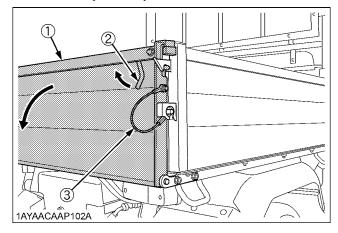
- Do not apply a load to the tailgate while the tailgate is open, or the wire loop may break.
- Do not place fingers or hands between the tailgate and the arm (latch) when closing, or fingers or hands may be pinched.

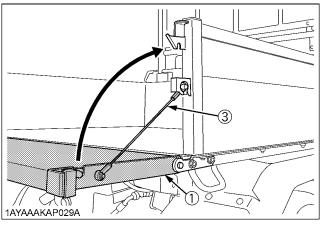
For loading and unloading, the tailgate of the cargo bed can be opened.

The tailgate is held level to the cargo bed floor with wire loops.

Do not move the vehicle with the tailgate fully lowered. In a fully lowered position, the tailgate may obstruct the vehicle tail lamps and damage them by swinging motion.

- 1. Raise the arms (latch) at each end of the tailgate and open the tailgate.
- 2. Close the tailgate by lifting it and pushing it firmly closed. Push the arms (latch) down to make sure the latches stay securely closed.





(1) Tailgate

(2) Arm (latch)

(3) Wire loop

IMPORTANT:

• TO AVOID TAILGATE DAMAGE:

Remove the rear trailer hitch when wire loop is removed and cargo bed is raised.

■ Raising and Lowering the Cargo Bed



CAUTION

To avoid personal injury;

- Make sure the vehicle is on a firm, level surface and the parking brake is applied before raising the cargo bed.
- If the vehicle is facing uphill with cargo bed raised, the weight of the cargo bed may cause the vehicle tip.
- When servicing under raised bed with lift cylinder, make sure safety support is properly mounted.

◆ To raise the cargo bed

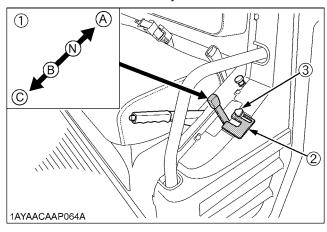
- 1. Start engine.
- 2. Release the restricting plate.
- 3. Pull up the hydraulic lift cylinder lever to raise the cargo bed.
- 4. Return the hydraulic lift cylinder lever to the "NEUTRAL" position immediately after raising the cargo bed.

◆ To lower the cargo bed

- Shift the hydraulic lift cylinder lever to the "DOWN" position and then lower the cargo bed.
- 2. After making sure that the bed has been lowered to the lowest position, return the lever to the "NEUTRAL" position and then lock the lever with the restricting plate.

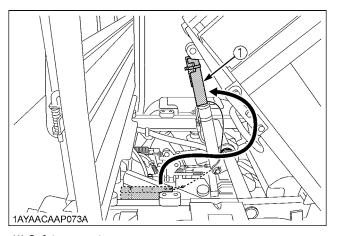
◆ Using the "FLOAT" position

1. If the cargo bed cannot be raised or lowered due to trouble with the engine or hydraulic system, shift the lever to the "FLOAT" position. The cargo bed can be raised or lowered manually.



- (1) Hydraulic lift cylinder lever
- (2) Restricting plate
- (3) Knob bolt

- (A) "UP"
- (N) "NEUTRAL"
- (B) "DOWN"
- (C) "FLOAT with Detent"



(1) Safety support

TIRES AND WHEELS

TIRES



WARNING

To avoid personal injury:

- Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.
- Always maintain the correct tire pressure.
 Do not inflate tires above the recommended pressure shown in the operator's manual.

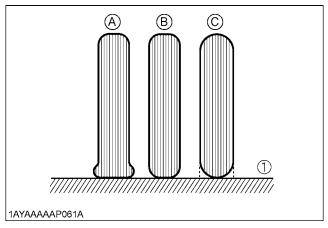
IMPORTANT:

 Do not use tires other than those approved by KUBOTA.

■Inflation Pressure

Though the tire pressure is factory-set to the prescribed level, it naturally drops slowly in the course of time. Thus, check it everyday and inflate as necessary.

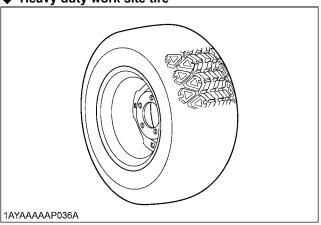
Tire sizes	Inflation Pressure
25 x 10 - 12 HDWS, Front & Rear	
25 x 12 - 12 Turf, Front & Rear	170 kPa
25 x 10 - 12 ATV, Front 25 x 11 - 12 ATV, Rear	(1.7 kgf/cm², 24 psi)



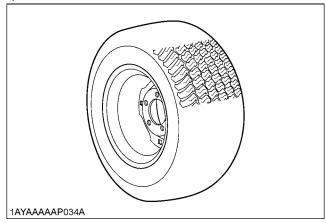
- (1) Ground
- (A) "INSUFFICIENT"
- (B) "NORMAL"
- (C) "EXCESSIVE"

■Tire Type and Use

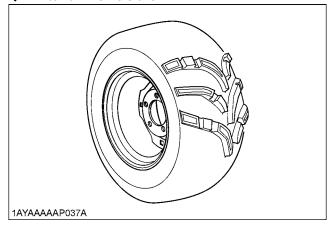
♦ Heavy duty work site tire



♦ Turf tire



All terrain vehicle tire



WHEELS



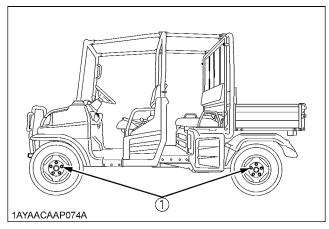
CAUTION

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.)

TOWING AND TRANSPORTING

TOWING AND TRANSPORTING

■ Rear Trailer Hitch [if equipped]

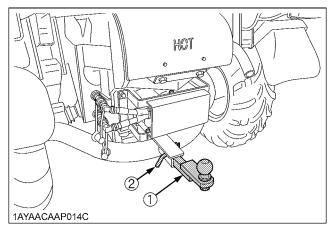


WARNING

To avoid personal injury:

- Always tow a load slowly enough to maintain control and avoid tipping.
- 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]



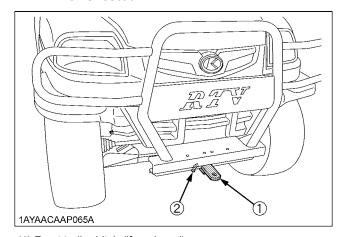
WARNING

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.

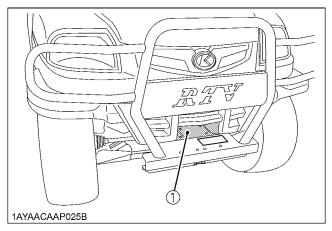
The front trailer hitch load is referred to "VEHICLE LIMITATIONS" section.



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

■Winch Mount Plate

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

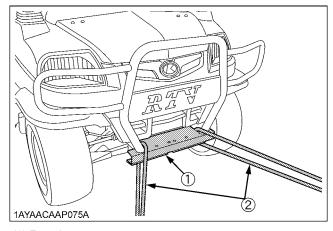


(1) Winch mount plate

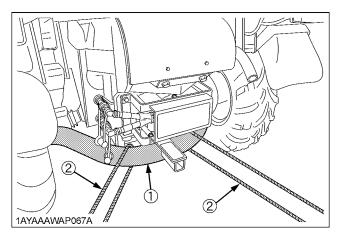
■Transport the Vehicle Safely

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

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 \bigcirc 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							Indica	tion of	Hour	Meter						After	Ref.		
140.	items		50	100	150	200	250	300	350	400	450	500	550	600	650	700	700 hrs	Page		
1	Engine oil	Change	0			0				0				0			every 200 hrs	61		
2	Engine oil filter	Replace	0			0				0				0			every 200 hrs	62		
3	Transmission fluid	Change								0							every 400 hrs	69		
4	Transmission oil filter (HST) (Yellow color)	Replace	0			0				0				0			every 200 hrs	62		
5	Transmission oil filter (Suction) (Orange color)	Replace	0			0				0				0			every 200 hrs	63		
6	Engine start system	Check	0	0	0	0	0	0	0	0	0	0	0	0	0	0	every 50 hrs	55		
7	Greasing	Apply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	every 50 hrs	53		
8	Muffler [Spark arrester]	Clean		0		0		0		0		0		0		0	every 100 hrs	60		
9	Wheel bolt torque	Check	0	0		0		0		0		0		0		0	every 100 hrs	56		
10	Battery condition	Check		0		0		0		0		0		0		0	every 100 hrs	58	*5	
11	Alternator belt	Adjust		0		0		0		0		0		0		0	every 100 hrs	57		
12	VHT neutral spring	Check		0		0		0		0		0		0		0	every 100 hrs	55		

								Indica	tion of	Hour	Meter						After	Ref.		
No.	Items		50	100	150	200	250	300	350	400	450	500	550	600	650	700	700 hrs	Page		
13	VHT pressure release	Check		0		0		0		0		0		0		0	every 100 hrs	55	*4	
14	Toe-in	Adjust		0		0		0		0		0		0		0	every 100 hrs	59		
15	Fuel filter element	Check		0		0		0		0		0		0		0	every 100 hrs	57		
15	ruei ilitei element	Replace										0					every 500 hrs	71	*4	@
16	Fuel line	Check		0		0		0		0		0		0		0	every 100 hrs	57		
16	Fuel line	Replace															every 2 years	73	*3	@
4-7	A : 1	Clean		0		0		0		0		0		0		0	every 100 hrs	56	*1	
17	Air cleaner element	Replace															every 1 year	71	*2	@
18	Brake pedal	Check	0			0				0				0			every 200 hrs	64	*4	
19	Parking brake lever	Adjust	0			0				0				0			every 200 hrs	61		
20	Brake light switch	Check	0			0				0				0			every 200 hrs	66		
21	Front brake case	Check	0			0				0				0			every 200 hrs	65		
22	Hydraulic tank oil	Change				0				0				0			every 200 hrs	63		
23	Hydraulic oil line	Check				0				0				0			every 200 hrs	-		
24	Power steering oil line	Check				0				0				0			every 200 hrs	67		
25	Hydraulic tank oil filter	Replace								0							every 400 hrs	70		
	Radiator hose and	Check				0				0				0			every 200 hrs	66		
26	clamp	Replace															every 2 years	73		
07	lutalia dia lia	Check				0				0				0			every 200 hrs	67		
27	Intake air line	Replace															every 2 years	73	*3	@
28	Engine breather hose	Replace															every 2 years	73	*4	
		Check	0			0				0				0			every 200 hrs	65		
29	Brake hose & pipe	Replace															every 4 years	73	*4	
30	Tire wear	Check	0					0						0			every 300 hrs	68		\prod
31	Front axle case oil	Change								0							every 400 hrs	70		

No.	Items							Indica	tion of	Hour	Meter						After	Ref.		
INO.	items		50	100	150	200	250	300	350	400	450	500	550	600	650	700	700 hrs	Page		
32	Knuckle case oil	Change								0							every 400 hrs	68		
33	Engine valve clearance	Adjust															every 800 hrs	71	*4	
34	Fuel injection nozzle Injection pressure	Check															every 1500 hrs	71	*4	@
35	Injection pump	Check															every 3000 hrs	71	*4	@
36	Brake Master cylinder (inner parts)	Replace															every 2 years	73	*4	
37	Brake fluid	Change															every 2 years	71	*4	
38	Remote hydraulic hose	Replace															every 2 years	73	*4	
39	Rear brake cylinder seal	Replace															every 2 years	73	*4	
40	Front brake seal	Replace															every 2 years	73	*4	
41	Cooling system	Flush															every 2 years	71		
42	Coolant	Change															every 2 years	71		
43	Fuel system	Bleed																73		
44	Fuse	Replace															Service as	74		
45	Light bulb	Replace															required	75		
46	Hydraulic tank	Check																75		

LUBRICANTS, FUEL AND COOLANT

No.	Locations	Capacities	Lu	bricants		
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 °F)			
2	Coolant (with reserve tank)	5.2 L (5.5 U.S.qts.)	Fresh clean water with anti-fre	eeze		
		[Filter exchanged]	Engine oil: API Service Cla	assification CD, CE or CF		
3	Engine crankcase	4.1 L (4.3 U.S.qts.)	Above 25 °C (77 °F)	SAE30, SAE10W-30 or 15W-40		
	Engine oranicade	[Filter non-exchanged]	0 to 25 ℃ (32 to 77 °F)	SAE20, SAE10W-30 or 15W-40		
		3.8 L (4.0 U.S.qts.)	Below 0 °C (32 °F)	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 GEN	UINE 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		
Battery terminal	2	moderate amount	
Cargo lift cylinder pivot	2	moderate amount	
Cargo bed pivot	2		Multipurpose EP2 Grease
VHT link	2	Until grease overflows	(NLGI Grade No.2)
Range gear shift lever pivot	2		(**************************************
4WD lever pivot	2		
Rear drive shaft	2	moderate amount	
VHT pressure release pivot	2		
Throttle cable	1		Antirust silicone grease

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

For North American market

NOTE:

Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel.

Fuel used	Engine oil classification (API classification)							
i dei dsed	Oil class of engines except external EGR	Oil class of engines with external EGR						
Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)						

EGR: Exhaust Gas Re-circulation

• The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this vehicle.

	except external EGR	with external EGR
Model	RTV1140CPX	

Fuel:

- Cetane number of 45 is minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C (-4 °F) or elevations above 1500 m (5000 ft).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of KUBOTA UDT or SUPER UDT fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

Brake fluid:

Always use KUBOTA DOT3 GENUINE BRAKE FLUID from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with KUBOTA DOT3 GENUINE BRAKE FLUID as soon as possible.

Indicated capacities of water and oil are manufacturer's estimate.

For other than North American market

NOTE:

♦ Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)									
i dei deed	Oil class of engines except external EGR	Oil class of engines with external EGR								
High Sulfur Fuel [≥ 0.05% (500 ppm)]	CF (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))									
Low Sulfur Fuel [<0.05% (500 ppm)] or Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)								

EGR: Exhaust Gas Re-circulation

• The CJ-4 engine oil is intended for DPF (Diesel Particulate Filter) type engines, and cannot be used on this vehicle.

	except external EGR	with external EGR
Model	RTV1140CPX	

◆ Fuel:

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20 °C or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% (5000 ppm) sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- NEVER use diesel fuel with sulfur content greater than 0.05% (500 ppm) for EXTERNAL EGR type engine.
- DO NOT use diesel fuel with sulfur content greater than 1.0% (10000 ppm).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

♦ Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete lubrication of the transmission, it is important that a multi-grade transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Do not mix different brands together.

◆ Brake fluid:

Always use KUBOTA **DOT3** GENUINE BRAKE FLUID from a sealed container. If it is not available, you should use only DOT3 fluid as a temporary replacement from a sealed container.

However, the use of any non-KUBOTA brake fluid can cause corrosion and decrease the life of the system.

Have the brake system flushed and refilled with KUBOTA **DOT3** GENUINE BRAKE FLUID as soon as possible.

• Indicated capacities of water and oil are manufacturer's estimate.

PERIODIC SERVICE



CAUTION

To avoid personal injury:

 Do not work under any hydraulically supported devices. They can settle, suddenly leak down, or be accidentally lowered. If necessary to work under vehicle or any vehicle elements for servicing or adjustment, securely support them with stands or suitable blocking beforehand.

HOW TO OPEN THE HOOD AND TILT THE SEAT



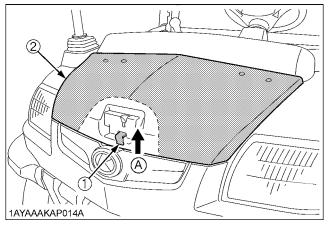
CAUTION

To avoid personal injury from contact with moving parts;

- Never open the operator's seat while the engine is running.
- Support hood with other hand while unlocking support link.



To open the hood, pull up the latch lever to release the latch and open the hood.



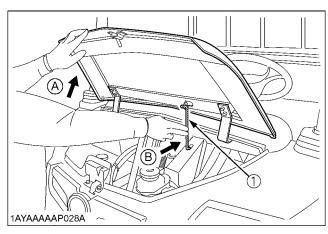
(1) Latch lever

(2) Hood

(A) "RELEASE"

NOTE:

 To close the hood, hold the hood and release the support link and press-fit the hood into position with both hands.

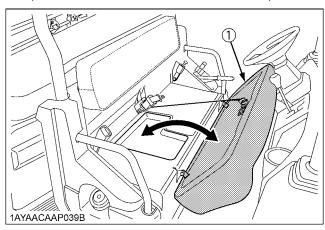


(1) Support link

(A) "HOLD" (B) "PUSH"

■Operator's Seat

To open the seat, raise the seat to the forward position.



(1) Operator's seat

HOW TO RAISE THE CARGO BED



CAUTION

To avoid personal injury:

- When servicing under raised bed, make sure safety support is properly mounted.
- Do not touch muffler or exhaust pipes while they are hot; Severe burns could result.

■ Raising and Lowering the Cargo Bed

◆ To raise the cargo bed

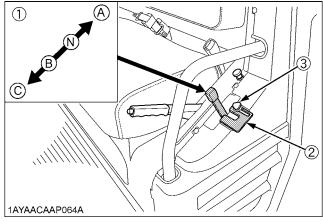
- 1. Apply the parking brake and start the engine.
- 2. Release the restricting plate.
- 3. Pull up the hydraulic lift cylinder lever to raise the cargo bed.
- 4. When the cargo bed has been raised, return the lever to the "NEUTRAL" position.
- 5. Stop the engine.
- 6. Mount the safety support.

◆ To lower the cargo bed

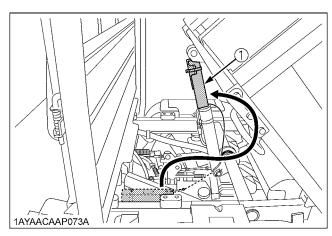
- 1. Start the engine and then lift the bed slightly by operating the lever.
- 2. Remove the safety support and store it in the given location.
- Lower the lever to the "DOWN" position to lower the bed.
- 4. After making sure that the bed has lowered to the lowest position, return the lever to the "NEUTRAL" position and lock it by the restricting plate.

NOTE:

 To raise or lower the cargo bed when the engine does not start or the hydraulics are not operating, shift the lever to the "FLOAT" position and raise or lower the bed manually.



- (1) Hydraulic lift cylinder lever
- (2) Restricting plate
- (3) Knob bolt
- (A) "UP"
- (N) "NEUTRAL"
- (B) "DOWN"
- (C) "FLOAT with Detent"



(1) Safety support

JACK-UP POINT



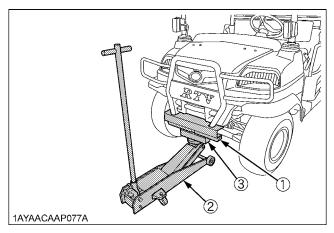
WARNING

To avoid personal injury, death or vehicle damage:

 Do not work under the vehicle unless it is secured by safe stands or suitable blocking.

■Front End

Jack up at the front bumper only.

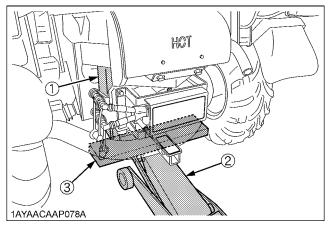


- (1) Front bumper
- (2) Jack
- (3) Wooden block

Rear End

Jack up the rear side after placing a wooden block under the right and left pipe frames for securing the engine and then supporting it.

Do not jack it up supporting the steel plate portion under the engine directly.



- (1) Pipe frame
- (2) Jack
- (3) Wooden block

DAILY CHECK

For your own safety and maximum service life of the vehicle, make a thorough daily inspection before operating the vehicle to start the engine.



CAUTION

To avoid personal injury:

 Be sure to check and service the vehicle on a flat surface with the engine shut off and the parking brake "ON".

■Walk Around Inspection

Look around and under the vehicle for such items as loose bolts, trash build-up, oil or coolant leaks, broken or worn parts.

■Checking and Refueling

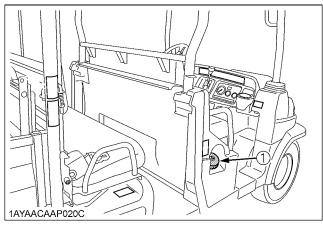


CAUTION

To avoid personal injury:

- Do not smoke while refueling.
- Be sure to stop the engine before refueling.
- 1. Turn the key switch to "ON", check the amount of fuel by fuel gauge.
- 2. Fill fuel tank when fuel gauge shows 1/4 or less fuel in tank
- 3. Use grade No.2-Diesel fuel at temperatures above -10 ℃ (14 °F).

Use grade No.1-Diesel fuel at temperatures below $-10 \,^{\circ}\mathrm{C} \, (14 \,^{\circ}\mathrm{F})$.



(1) Fuel tank cap

Fuel tank capacity	30L (7.9 U.S.gals.)
--------------------	---------------------

IMPORTANT:

- Do not permit dirt or trash to get into the fuel system.
- Be careful not to let the fuel tank become empty, otherwise air will enter the fuel system, necessitating bleeding before next engine start.
- Be careful not to spill during refueling. If you should spill, wipe it off at once, or it may cause a fire.
- To prevent water condensation from accumulating in the fuel tank, fill the tank before parking overnight.

■ Checking Engine Oil Level



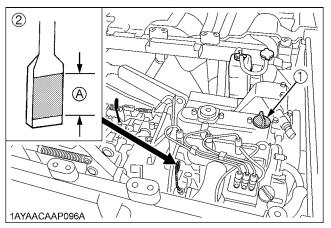
CAUTION

To avoid personal injury:

- Be sure to stop the engine before checking the oil level.
- Park the vehicle on a flat surface, raise the cargo bed, and mount the safety support. (See "HOW TO RAISE THE CARGO BED" in "PERIODIC SERVICE" section.)
- 2. Check engine oil before starting the engine or 5 minutes or more after the engine has stopped.
- 3. To check the oil level, draw out the dipstick, wipe it clean, replace it, and draw it out again. Check to see that the oil level lies between the two notches.

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) Oil inlet
- (A) Oil level is acceptable within this range.
- (2) Dipstick

IMPORTANT:

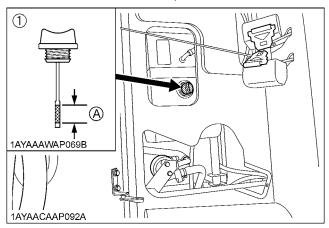
- When using an oil of different maker or viscosity from the previous one, remove all of the old oil.
 Never mix two different types of oil.
- If oil level is low, do not run engine.

■Checking Hydraulic Tank Oil Level

- 1. Park the vehicle on a flat surface.
- 2. Stop the engine and remove the key.
- 3. Tilt the seat.
 - (See "HOW TO OPEN THE HOOD AND SEAT" in "PERIODIC SERVICE" section.)
- 4. 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:

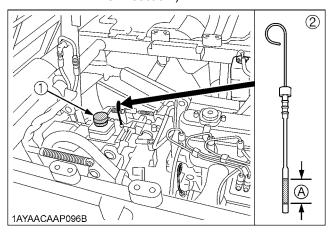
If oil level is low, do not run engine.

■ Checking Transmission Fluid Level

- 1. Park the vehicle on a flat surface, raise the cargo bed, mount the safety support and shut off engine.
- 2. To check the oil level, draw out the dipstick, wipe it clean, replace it, and draw it out again. Check to see that the oil level lies between the two notches.

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) Oil inlet

(A) Oil level is acceptable within this range.

(2) Dipstick

IMPORTANT:

If oil level is low, do not run engine.

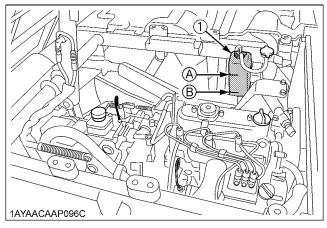
■ Checking Coolant Level



CAUTION

To avoid personal injury:

- Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.
- 1. Park the vehicle on a flat surface, raise the cargo bed, mount the safety support and shut off the engine.
- 2. Check to see that the coolant level is between the "FULL" and "LOW" marks of recovery tank.
- When the coolant level drops due to evaporation, add water only up to the full level.
 In case of leakage, add anti-freeze and water in the
 - In case of leakage, add anti-freeze and water in the specified mixing ratio up to the full level.
 - (See "Flush Cooling System and Changing Coolant" in "EVERY 2 YEARS" in "PERIODIC SERVICE" section.)



(1) Recovery tank

(A) "FULL"

(B) "LOW"

IMPORTANT:

- If the radiator cap has to be removed, follow the caution above and securely retighten the cap.
- Use clean, fresh water and anti-freeze to fill the recovery tank.
- If water should leak, consult your local KUBOTA Dealer.

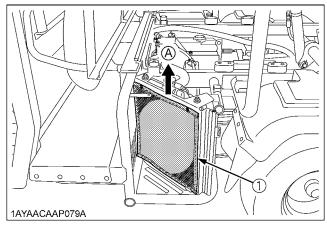
■Cleaning Radiator Screen



CAUTION

To avoid personal injury:

- Be sure to stop the engine before removing the screen.
- 1. Park the vehicle on a flat surface.
- 2. Remove the radiator cover.
- 3. Detach the screen and remove all foreign materials.



(1) Radiator screen

(A) "DETACH"

IMPORTANT:

 Radiator screen must be clean from debris to prevent engine from overheating.

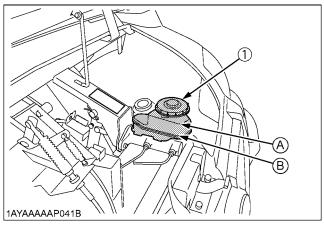
■Checking Brake Fluid Level



CAUTION

To avoid personal injury:

- Never operate the vehicle, if the brake fluid is below the "MIN" mark.
- Use only KUBOTA DOT3 GENUINE BRAKE FLUID from a sealed container. Using other type of oil ruins synthetic resin or rubber installed in brake system components, and may cause brake failure.
- Avoid contamination of the brake fluid. Thoroughly clean area around the filler cap before removing. Do not open the brake fluid reservoir cap unless absolutely necessary.
- Use extreme care when filling the reservoir. If brake fluid is spilled on power steering hose, wash off with water immediately. Brake fluid quickly ruins synthetic resin or rubber hoses.
- 1. Park the vehicle on a level ground and open the hood.
- 2. Check to see that the brake fluid level is between the "MAX" and "MIN" marks.
- 3. If it is below the "MIN" mark, add brake fluid to the "MAX" mark.



(1) Oil tank cap

(A) "MAX"

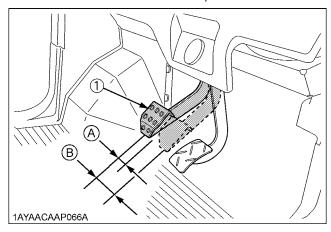
(B) "MIN"

■Checking Brake Pedal



CAUTION

- Stop the engine and chock the wheels before checking brake pedal.
- 1. Inspect the brake pedals for free travel, and smooth operation.
- Adjust if incorrect measurement is found: (See "Checking Brake Pedal" in "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)



(1) Brake pedal

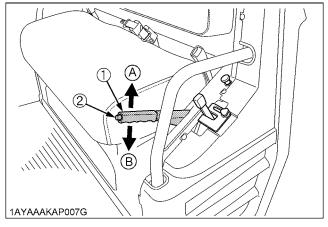
(A) "FREE TRAVEL" (B) "PEDAL STROKE"

■Checking Parking Brake

Pull the parking brake lever to apply the brakes. With the key switch at "ON" position, the parking brake indicator on the instrument panel lights up. To release the brakes, push in the button at the tip of the parking brake lever and tilt down the lever.

NOTE:

 Make sure the parking brake warning lamp (①) on the Easy Checker(TM) goes off when parking brake lever is down.



- (1) Parking brake lever
- (2) Release button
- (A) "PULL"
- (B) "RELEASE"

■Checking Gauges, Meter and Easy Checker(TM)

- 1. Inspect the instrument panel for broken gauge(s), meter(s) and Easy Checker(TM) lamps.
- 2. Replace if broken.

■Checking Head Light, Turn Signal Light etc.

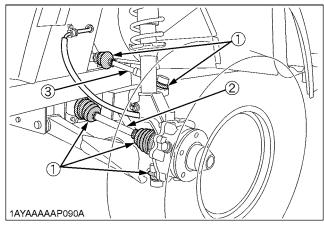
- 1. Inspect the lights for broken bulbs and lenses.
- 2. Replace if broken.

■Checking Seat Belt and ROPS

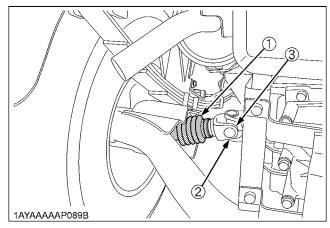
- 1. Always check condition of seat belt and ROPS attaching hardware before operating vehicle.
- 2. Replace if damaged.

■Checking Joint Boot

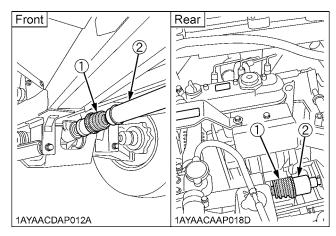
- 1. Check to see if the joint boots are not damaged.
- 2. If the boots are cut, cracked or shows signs of deterioration, consult your local KUBOTA Dealer.



- (1) Joint boot
- (2) Front drive shaft
- (3) Tie rod



- (1) Joint boot
- (2) Rear drive shaft
- (3) Grease nipple

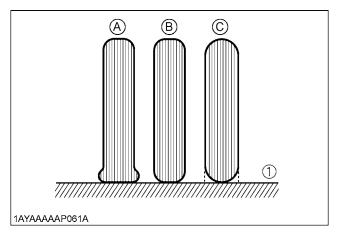


- (1) Joint boot
- (2) Drive shaft

■Checking Tire Inflation Pressure

Though the tire pressure is factory-set to the prescribed level, it naturally drops slowly in the course of time. Thus, check it everyday and inflate as necessary.

Tire sizes	Inflation Pressure		
25 x 10 - 12 HDWS, Front & Rear			
25 x 12 - 12 Turf, Front & Rear	170 kPa		
25 x 10 - 12 ATV, Front 25 x 11 - 12 ATV, Rear	(1.7 kgf/cm², 24 psi)		

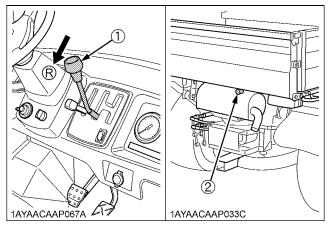


- (1) Ground
- (A) "INSUFFICIENT"
- (B) "NORMAL"
- (C) "EXCESSIVE"

■Checking Backup Beeper

[if equipped]

- 1. Sit on the operator's seat.
- 2. Set the parking brake and stop the engine.
- 3. Shift the range gear shift lever to the "NEUTRAL" position.
- 4. Turn the key to "ON" position.
- Shift the range gear shift lever to the "REVERSE" position.
- 6. If the backup beeper does not beep, consult your local KUBOTA Dealer.



(1) Range gear shift lever

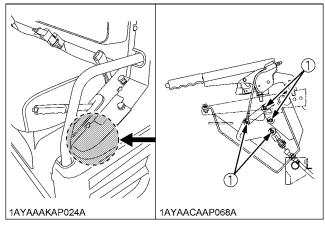
(R) "REVERSE"

(2) Backup beeper (if equipped)

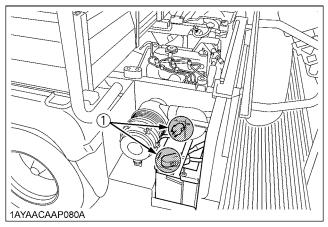
EVERY 50 HOURS

■Greasing

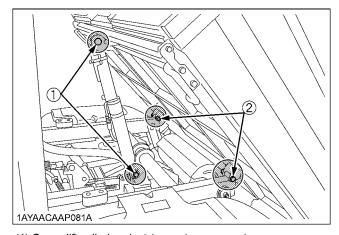
Apply a small amount of multi-purpose grease to the following points every 50 hours: If you operated the vehicle in extremely wet and muddy conditions, lubricate grease fittings more often.



(1) Parking brake pivot (spray type grease)

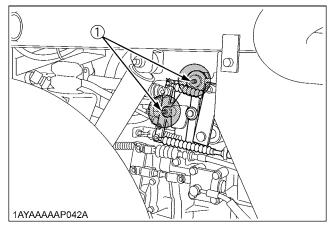


(1) Battery terminals

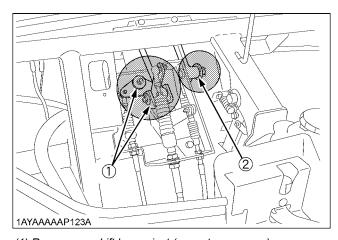


(1) Cargo lift cylinder pivot (spray type grease)

(2) Cargo bed pivot (spray type grease)

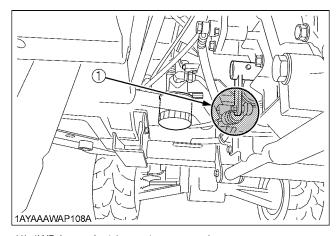


(1) VHT link (Grease fitting)

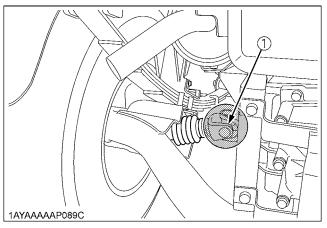


(1) Range gear shift lever pivot (spray type grease)

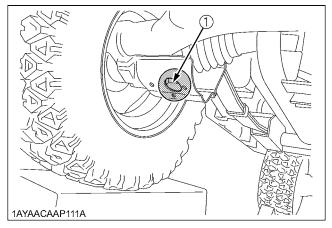
(2) 4WD lever pivot (spray type grease)



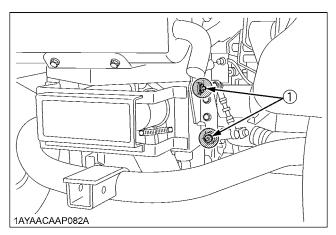
(1) 4WD lever pivot (spray type grease)



(1) Rear drive shaft (Grease fitting)

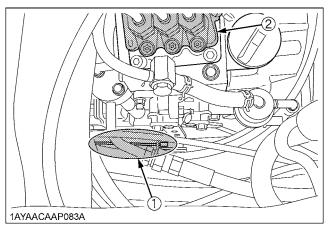


(1) Rear drive shaft (Grease fitting)



(1) VHT pressure release pivot (Grease fitting)

■Oiling



- (1) Accelerator wire
- (2) Fuel pump

■Checking Engine Start System



CAUTION

To avoid personal injury:

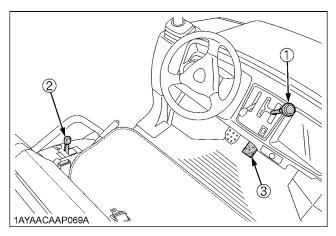
- Do not allow anyone near the vehicle while testing.
- If the vehicle does not pass the test, do not operate the vehicle.

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.
- Return the Speed control pedal to the "NEUTRAL" position.
- 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.
- Shift the range gear shift lever to the "NEUTRAL" position.
- Lock the hydraulic lift cylinder lever to the "NEUTRAL" position with restricting plate.
- 5. Start the engine.
- 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.

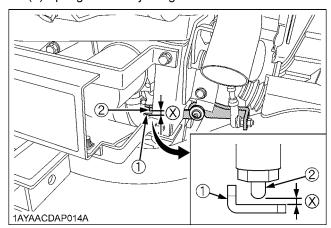
■Checking VHT Pressure Release



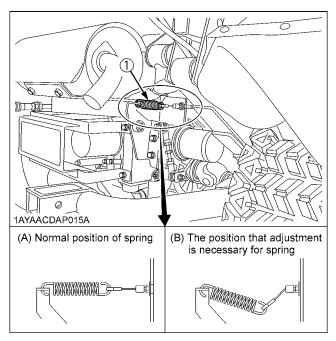
CAUTION

To avoid personal injury:

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



(1) Spring

■Checking Wheel Bolt Torque

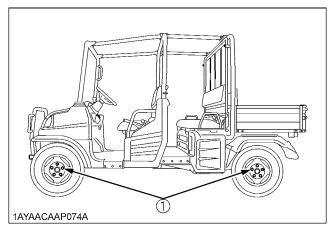


CAUTION

To avoid personal injury:

- Never operate vehicle with a loose wheel bolts.
- Any time bolts are loosened, retighten to the specified torque.
- Check all bolts frequently and keep them tight.

Check wheel bolts regularly especially when new. If they are loose, tighten them as follows.



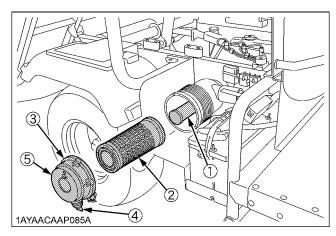
(1) Torque wheel bolts to 75 to 90 N-m (7.6 to 9.2 kgf-m) (55.3 to 66.4 ft-lbs.)

■Cleaning Air Cleaner Primary Element

- 1. Remove the air cleaner cover and primary element.
- 2. Clean the primary element:
 - (1) When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under 205 kPa (2.1 kgf/cm², 30 psi).
 - (2) When carbon or oil adheres to the element, soak the element in detergent for 15 minutes then wash it several times in water, rinse with clean water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if it is damaged or not.
- Replace the primary element: Once yearly or after every sixth cleaning, whichever comes first.

NOTE:

- Check to see if the evacuator valve is blocked with dust
- Check the rubber seal. Replace if damaged.



- (1) Secondary (safety) element
- (2) Primary element
- (3) Rubber seal
- (4) Evacuator valve
- (5) Cover

IMPORTANT:

- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit the cover with the arrow (on the rear of cover) upright. If the cover is improperly fitted, evacuator valve will not function and dust will adhere to the element.
- Do not touch the secondary element except in cases where replacing is required.
 - (See "Replacing Air Cleaner Primary Element and Secondary Element" in "EVERY 1 YEAR" in "PERIODIC SERVICE" section.)

Evacuator Valve

Open the evacuator valve once a week under ordinary conditions - or daily when used in a dusty place - to get rid of large particles of dust and dirt.

■Adjusting Alternator Belt Tension



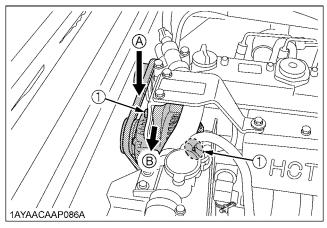
CAUTION

To avoid personal injury:

 Be sure to stop the engine before checking belt tension.

Proper	A deflection of between 7 to 9 mm
alternator belt	(0.28 to 0.34 in.) when the belt is
tension	pressed in the middle of the span.

- Park the vehicle on a flat surface and raise the cargo bed.
- 2. Stop the engine and remove the key.
- 3. Apply moderate thumb pressure to belt between pulleys.
- 4. If tension is incorrect, loosen the alternator mounting bolts and, using a lever placed between the alternator and the engine block, pull the alternator out until the deflection of the belt falls within acceptable limits.
- 5. Replace alternator belt if it is damaged.



(1) Bolt

(A) Check the belt tension (B) To tighten

■Checking Fuel Line and Fuel Filter



CAUTION

To avoid personal injury:

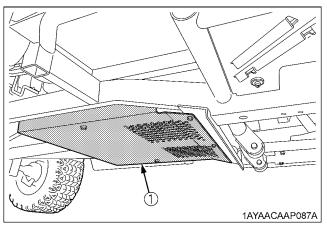
- Be sure to stop the engine and remove the key when attempting to make the following checks and changes.
- Never fail to check the fuel lines periodically.
 The fuel lines are subject to wear and aging.
 Fuel may leak out onto the running engine, causing a fire.

The fuel line connections should be checked annually or every 100 service hours, whichever comes first.

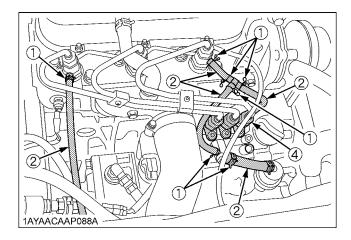
- Park the vehicle on a flat surface and raise the cargo bed.
- 2. The fuel line is made of rubber and ages regardless of service period.
- 3. If the fuel line and clamps are found to be damaged or deteriorated, replace them.
- 4. Remove the under guard.
- 5. Check fuel filter, if it is clogged by debris or contaminated with water, replace it.
- 6. Install the under guard.

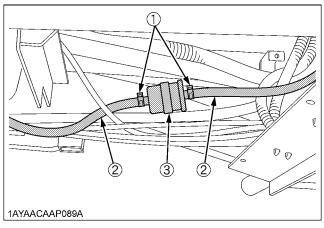
IMPORTANT:

• When the fuel line is disconnected for maintenance or repair, close both ends of the fuel line with a piece of clean cloth or paper to prevent dust and dirt from entering. In addition, particular care must be taken not to admit dust and dirt into the fuel pump. Entrance of even a small amount of dust or dirt cause premature wear and malfunction of the fuel pump and injector components.



(1) Under guard





- (1) Pipe clamp
- (2) Fuel line
- (3) Fuel filter
- (4) Fuel pump

■Checking Battery Condition



DANGER

To avoid the possibility of battery explosion:

For the refillable type battery, follow the instructions below.

• Do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Otherwise, the battery component parts may prematurely deteriorate, which may shorten the battery's service life or cause an explosion. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER levels.



CAUTION

To avoid personal injury:

- Never remove the vent caps while the engine is running.
- Keep electrolyte away from eyes, hands and clothes. If you are spattered with it, wash it away completely with water immediately and get medical attention.
- Wear eye protection and rubber gloves when working around the battery.

The factory-installed battery is non-refillable type. If the battery is weak, charge the battery or replace it with new one.

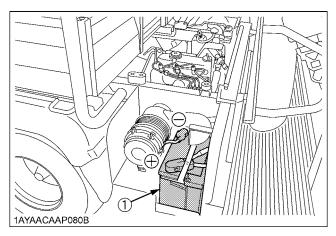
♦ Battery Charging



CAUTION

To avoid personal injury:

- When the battery is being activated, hydrogen and oxygen gases in the battery are extremely explosive. Keep open sparks and flames away from the battery at all times, especially when charging the battery.
- When charging the battery, ensure the vent caps are securely in place. (if equipped)
- When disconnecting the cable from the battery, start with the negative terminal first. When connecting the cable to the battery, start with the positive terminal first.
- Never check battery charge by placing a metal object across the posts.
 Use a voltmeter or hydrometer.



(1) Battery

- To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
- A boost charge is only for emergencies. It will partially charge the battery at a high rate and in a short time. When using a boost-charged battery, it is necessary to recharge the battery as early as possible. Failure to do this will shorten the battery's service life.
- 3. When exchanging an old battery for a new one, use battery of equal specification shown in table 1.

Battery TYPE	Volts (V)
624FMF	12

Reserve Capacity (min)	Cold Cranking Amps	Recommended Charging Voltage at 26.7°C (V)
120	650	15.5

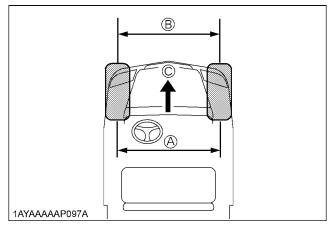
♦ Direction for Storage

- When storing the vehicle for a long period, remove the battery from vehicle, adjust the electrolyte to the proper level (refillable type only) and store in a dry place out of direct sunlight.
- 2. The battery self-discharges while it is stored.
 Recharge it once every three months in hot seasons and once every six months in cold seasons.

■Adjusting Toe-in

Proper toe-in	0 to 20 mm (0 to 0.79 in.)
---------------	----------------------------

- 1. Park vehicle on a flat place.
- 2. Turn steering wheel so front wheels are in the straight ahead position.
- 3. Lock the park brake and stop the engine.
- 4. Measure distance between tire beads at front of tire, at hub height.
- 5. Measure distance between tire beads at rear of tire, at hub height.
- 6. Front distance should be shorter than rear distance. If not, adjust tie rod length.

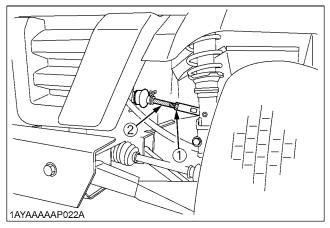


(A) Wheel - to - wheel distance at rear

- (B) Wheel to wheel distance at front
- (C) "FRONT"

Adjusting procedures

- Loosen the lock nut and turn the tie rod to adjust the rod length until the proper toe-in measurement is obtained.
- 2. Retighten the lock nut.



- (1) Lock nuts
- (2) Tie-rod

IMPORTANT:

• Keep the length of the left and right tie-rod equal.

■Cleaning Muffler



CAUTION

To avoid personal injury:

- Before touching any part of an exhaust system, be absolutely sure that it has sufficient time to cool!
- Always wear safety goggles and a (face) mask.
- The particulate matter contained in the muffler contains chemicals that are harmful to people, animals and marine life.
- If you are unable to do this work, have it done by your KUBOTA Dealer.

♦ Cleaning spark arrester of muffler

This screen type spark arrester was examined, tested, and qualified in accordance with the USDA Forest Service Standard 5100-1c, "Spark Arresters for Internal Combustion Engines" for the RTV1140 CPX.

Maintenance & cleanout procedure:

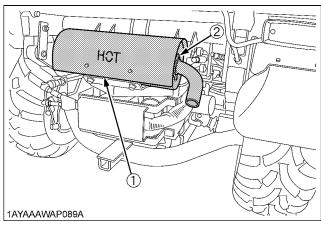
The screen type spark arrester should be removed, cleaned, and inspected after every 100 hours of use.

- 1. The spark arrester is located inside of the exhaust pipe, and is fastened with two bolts.
- 2. Unfasten the bolts and remove the spark arrester.
- 3. Shake loosened particles out of the screen assembly and lightly clean the screen with wire brush. Soak in solvent and again clean with wire brush if necessary.
- 4. If any breaks in the screen or weldments are discovered, the assembly must be replaced.

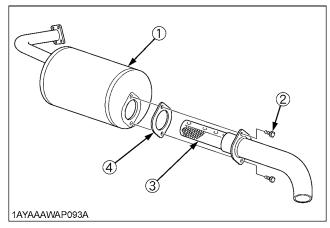
5. Return the spark arrester to the muffler body and refasten the bolts.

IMPORTANT:

- Visually check the muffler for cracks or holes in the body, weldment or pipes at regular intervals.
- USDA approval requires clearance between spark arrester sleeve and exhaust pipe to be no larger than 0.023" (0.584 mm).
- Replace the entire muffler if it is damaged.
- Do not operate the vehicle with a damaged muffler.



- (1) Muffler
- (2) Bolt



- (1) Muffler
- (2) Bolt
- (3) Spark arrester
- (4) Gasket

EVERY 200 HOURS

■Changing 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.
- Park the vehicle on a flat surface and raise the cargo bed.
- 2. To drain the used oil, remove the drain plug at the bottom of the engine and completely drain the oil into an oil pan.

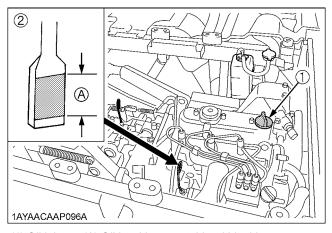
All the used oil can be drained out easily when the engine is still warm.

- 3. After draining, reinstall the drain plug.
- 4. Fill with the new oil up to the upper notch on the dipstick.

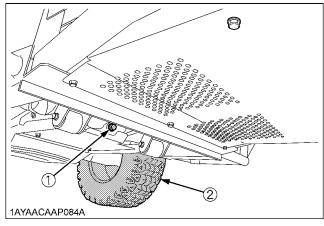
(See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)

Oil capacity

[Filter exchanged] 4.1 L (4.3 U.S.qts.) [Filter non-exchanged] 3.8 L (4.0 U.S.qts.)



- (1) Oil inlet (A) Oil level is acceptable within this range
- (2) Dipstick



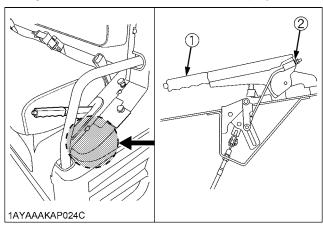
- (1) Drain plug
- (2) Rear tire (LH)

■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

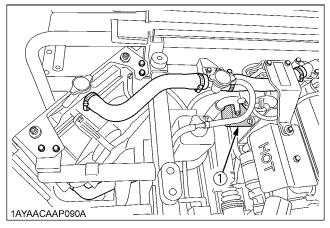
■ Replacing Engine Oil Filter



CAUTION

To avoid personal injury:

- Be sure to stop the engine before changing the oil filter cartridge.
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- Park the vehicle on a flat surface and raise the cargo hed
- 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.
- 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.

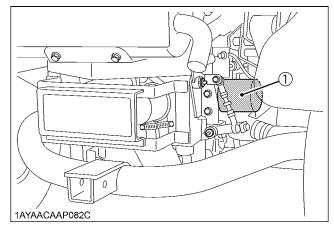
■ Replacing Transmission Oil Filter [HST]



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 filters.
- 3. Put a film of clean transmission oil on the rubber seal of the new filter.
- 4. Quickly tighten the filter until it contacts the mounting surface, then, with a filter wrench, tighten it an additional 1 turn only.
- 5. After the new filter has been replaced, fill the transmission oil up to the upper notch on the dipstick.
- 6. After running the engine for a few minutes, stop the engine and check the oil level again, add oil to the prescribed level.
- 7. Make sure that the transmission fluid doesn't leak past the seal on the filters.



(1) Transmission oil filter (HST) (Yellow color)

IMPORTANT:

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

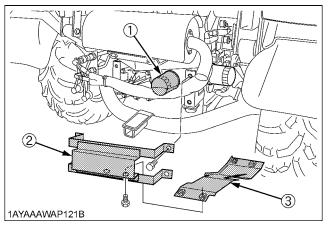
■ Replacing Transmission Oil Filter [SUCTION]



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 rear guard and hose guard.
- 3. Remove the oil filters.
- 4. Put a film of clean transmission oil on the rubber seal of the new filter.
- 5. Quickly tighten the filter until it contacts the mounting surface, then, with a filter wrench, tighten it an additional 1 turn only.
- 6. After the new filter has been replaced, fill the transmission oil up to the upper notch on the dipstick.
- 7. After running the engine for a few minutes, stop the engine and check the oil level again, add oil to the prescribed level.
- 8. Make sure that the transmission fluid doesn't leak past the seal on the filters.
- 9. Install the rear guard, and the hose guard.



- (1) Transmission oil filter (Suction) (Orange color)
- (2) Rear guard
- (3) Hose guard

IMPORTANT:

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

■Changing Hydraulic Tank 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 firm, flat and level surface.
- 2. Tilt the seat.
- 3. Remove the under guard.
- 4. To drain the used oil, remove the drain plug and filling plug and drain the oil completely into the oil pan.
- 5. After draining, reinstall the drain plug.
- 6. Install the under guard.
- 7. Fill with new KUBOTA SUPER UDT fluid up to the upper notch on the dipstick.

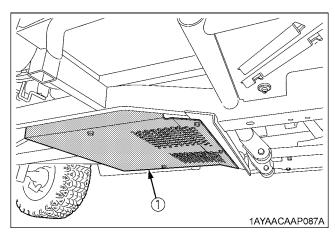
(See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)

How to check:

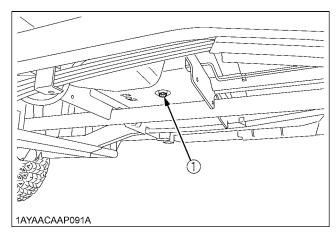
Wipe dipstick clean with a rag and screw it into filling hole. Remove dipstick again to see if the oil level is between the upper and lower notch.

8. After filling, reinstall the filling plug.

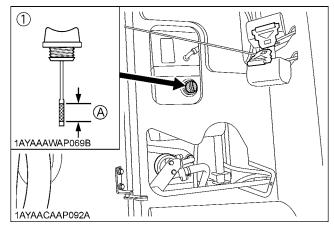
Oil Capacity 14.5 L (15.3 U.S.qts.)



(1) Under guard



(1) Drain plug



(1) Filling plug with dipstick

(A) Oil level is acceptable within this range

■Checking Brake Pedal



CAUTION

To avoid personal injury:

- Stop the engine and chock the wheels before checking brake pedal.
- If movement is outside of the specifications, contact your local KUBOTA Dealer for adjusting the brake.

◆ Checking the brake pedal free travel

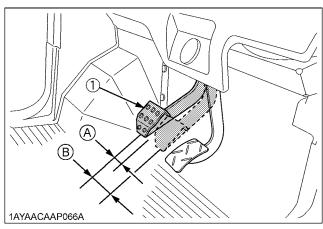
Proper brake pedal	7 to 14 mm (0.3 to 0.6 in.)
free travel	on the pedal

- 1. Release the parking brake.
- 2. Slightly depress the brake pedal and measure free travel at the top of the pedal stroke.
- 3. If brake pedal free travel is outside of the specifications, contact your local KUBOTA Dealer for adjusting the brake.

Checking the brake pedal stroke

Pedal stroke	Less than 120 mm (4.7 in.)	
	on the pedal	

- 1. Release the parking brake.
- 2. Step on the pedal and measure the pedal stroke.
- If brake pedal stroke is outside of the specifications, contact your local KUBOTA Dealer for adjusting the brake.

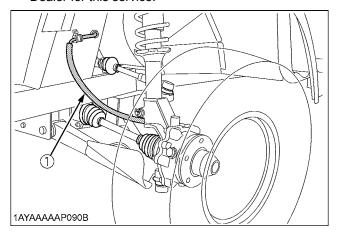


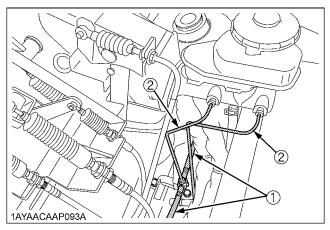
(1) Brake pedal

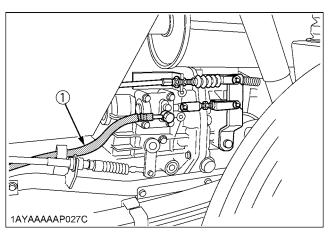
(A) "FREE TRAVEL"
(B) "PEDAL STROKE"

■Checking Brake Hose and Pipe

- 1. Check to see that brake hose and pipe are not swollen, hardened or cracked.
- 2. Check the brake hose and pipe joints for oil leaks.
- 3. If there is any abnormality, consult your local KUBOTA Dealer for this service.



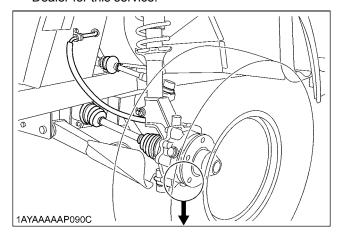


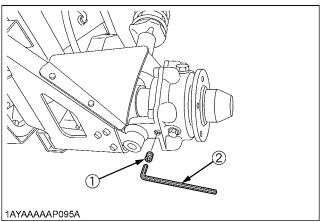


(1) Brake hose (2) Brake pipe

■Checking Front Brake Case

- 1. Remove the drain plug.
- 2. Check the brake case for brake fluid leak.
- 3. If there is brake fluid leak, consult your local KUBOTA Dealer for this service.

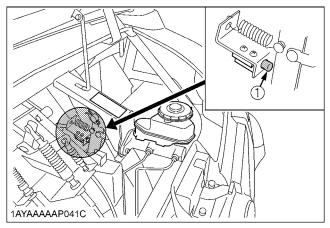




- (1) Drain plug
- (2) Allen key

■Checking Brake Light Switch

- Park the vehicle on a flat surface and raise the cargo bed.
- 2. Turn the key switch to the "ON" position.
- 3. Step on the brake pedal to check if the brake light comes on.
- 4. If it does not, check the bulb or brake light switch.



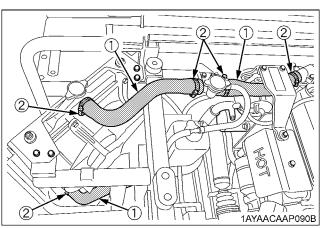
(1) Brake light switch

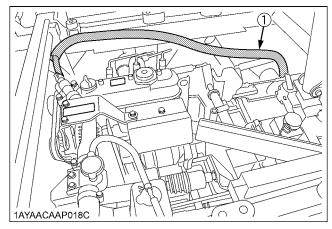
■Checking Radiator Hose and Clamp

Park the vehicle on a flat surface and raise the cargo bed. Check to see if radiator hoses are properly fixed every 200 hours of operation or six months, whichever comes first.

- 1. If hose clamps are loose or water leaks, tighten bands securely.
- Replace hoses and tighten hose clamps securely, if radiator hoses are swollen, hardened or cracked.

Replace hoses and hose clamps every 2 years or earlier if checked and found that hoses are swollen, hardened or cracked.





(1) Radiator hoses

(2) Clamp bands

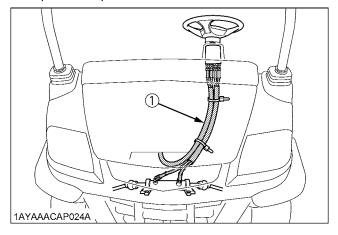
Precaution at Overheating

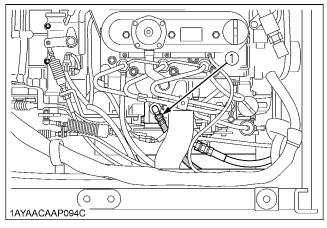
Take the following actions in the event the coolant temperature is close to or more than the boiling point, which is called "Overheating".

- 1. Stop the vehicle operation in a safe place and keep the engine unloaded idling.
- Don't stop the engine suddenly, but stop it after about 5 minutes of unloaded idling.
- 3. Keep yourself well away from the vehicle for at least 10 minutes or while the steam is blowing out.
- 4. Check to see if there is no danger such as burning, get rid of the causes of overheating according to the "TROUBLESHOOTING" section of this manual, and then start the engine again.

■Checking Power Steering Line

- 1. Check to see that all lines and hose clamps are tight and not damaged.
- 2. If hoses and clamps are found worn or damaged, replace or repair them at once.

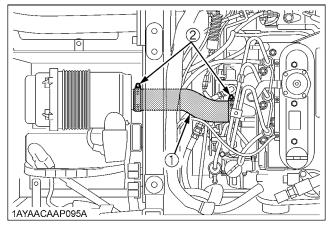




(1) Power steering pressure hoses

■Checking Intake Air Line

- 1. Check to see if the hoses and hose clamps are tight and not damaged.
- 2. If hoses and clamps are found to be worn or damaged, replace or repair them at once.



- (1) Hose
- (2) Hose clamp

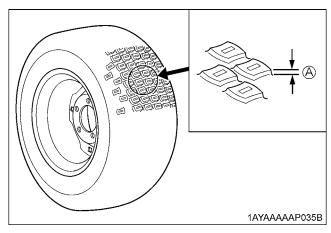
EVERY 300 HOURS

■Checking Tire

- 1. Check to see if tires are not damaged.
- 2. If the tires are cracked, bulged, or cut, or they are worn out, replace or repair them at once.

♦ Tire Tread Depth

Always replace the tires when the tread depth is worn to minimum allowable.



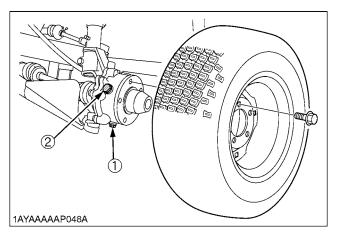
(A) 3 mm (0.12 in.)

EVERY 400 HOURS

■Changing Knuckle Case Oil

- 1. Park the vehicle on a firm, flat and level surface.
- 2. Remove the tire.
- 3. To drain the used oil, remove the drain and filling plugs at the LH knuckle case and drain the oil completely into the oil pan.
- 4. After draining, reinstall the drain plug.
- Fill with the new oil up to the filling port level. (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)
- 6. After filling, reinstall the filling plug.
- 7. Use the same procedure to change the RH knuckle case oil.

Oil capacity (one side) Ref. 0.15 L (0.16 U.S.qts.)



- (1) Drain plug
- (2) Filling plug

■Changing Transmission Fluid

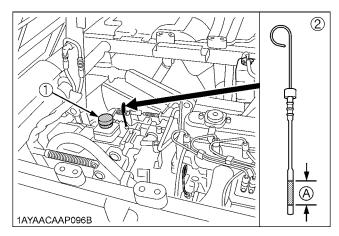


CAUTION

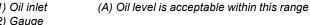
To avoid personal injury:

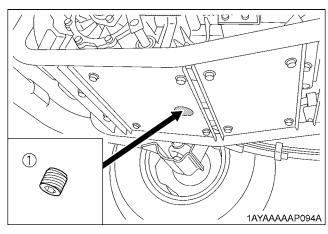
- Be sure to stop the engine before changing the
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- 1. Park the vehicle on a flat surface, raise the cargo bed, mount the safety support.
- 2. To drain the used oil, remove the drain plug at the bottom of the transmission case and drain the oil completely into the oil pan.
- 3. After draining, reinstall the drain plug.
- 4. Fill with the new KUBOTA SUPER UDT fluid up to the upper notch on the dipstick.
 - (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)
- 5. After running the engine for a few minutes, stop the engine and check the oil level again; add oil to prescribed level.

Oil Capacity	12 L (3.2 U.S.gals.)
--------------	----------------------



- (1) Oil inlet
- (2) Gauge





(1) Drain plug

IMPORTANT:

- Do not operate the vehicle immediately after changing the transmission fluid.
 - Run the engine at medium speed for a few minutes to prevent damage to the transmission.

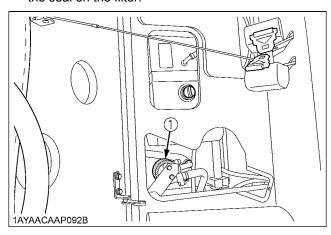
■ Replacing Hydraulic Tank Oil Filter



CAUTION

To avoid personal injury:

- Be sure to stop the engine before changing the oil filter cartridge.
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- 1. Park the vehicle on a firm, flat and level surface.
- 2. Tilt the seat.
- Remove the oil filter. (Take care of the oil that spills from filter.)
- 4. Put a film of clean KUBOTA SUPER UDT OIL on the rubber seal of the new filter.
- 5. Quickly tighten the filter until it contacts the mounting surface, then, with a filter wrench, tighten it an additional 1 turn only.
- 6. After running the engine for a few minutes, stop the engine and check the oil level, add oil to the prescribed level.
- 7. Make sure that the hydraulic tank oil doesn't leak past the seal on the filter.



(1) Hydraulic tank oil filter (Return)

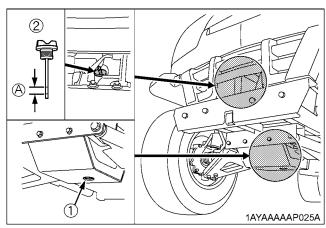
IMPORTANT:

- Receive the spilt oil with rags or trays.
 Be careful not to spill oil.
 If you should spill oil, wipe it off at once.
- To prevent serious damage to the hydraulic line, use only a KUBOTA genuine filter.

■Changing Front Axle Case Oil

- 1. Park the vehicle on a firm, flat and level surface.
- 2. To drain the used oil, remove the drain and filling plugs at the front axle case and drain the oil completely into the oil pan.
- 3. After draining, reinstall the drain plug.
- 4. Fill with the new oil up to the upper notch on the dipstick.
 - (See "LUBRICANTS, FUEL AND COOLANT" in "MAINTENANCE" section.)
- 5. After filling, reinstall the filling plug.

0:1:	0.01 (0.011.0 -: 1-)
Oil capacity	0.6 L (0.6 U.S.qts.)



(1) Drain plug(2) Filling plug with dipstick

(A) Oil level is acceptable within this range

EVERY 500 HOURS

■Replacing Fuel Filter

Consult your local KUBOTA Dealer for this service.

EVERY 800 HOURS

■Adjusting Engine Valve Clearance

Consult your local KUBOTA Dealer for this service.

EVERY 1500 HOURS

■ Checking Fuel Injection Nozzle Injection Pressure

Consult your local KUBOTA Dealer for this service.

EVERY 3000 HOURS

■Checking Injection Pump

Consult your local KUBOTA Dealer for this service.

EVERY 1 YEAR

■ Replacing Air Cleaner Primary Element and Secondary Element

(See "Cleaning Air Cleaner Primary Element" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)

EVERY 2 YEARS

■Changing Brake Fluid

Consult your local KUBOTA Dealer for this service. (See "Checking Brake Fluid Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

■ Flushing Cooling System and Changing Coolant

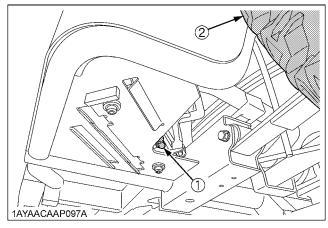


CAUTION

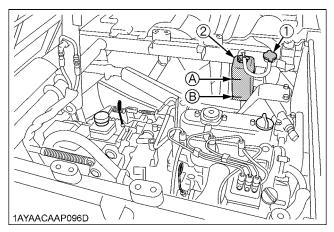
To avoid personal injury:

- Do not remove the radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.
- 1. Stop the engine and let cool down.
- 2. To drain the coolant, open the radiator drain plug and remove radiator cap. The radiator cap must be removed to completely drain the coolant.
- 3. After all coolant is drained, close the drain plug.
- 4. Fill with clean water and cooling system cleaner.
- 5. Follow directions of the cleaner instruction.
- After flushing, fill with clean water and anti-freeze until the coolant level is just below the radiator cap. Install the radiator cap securely.
- 7. Fill with fresh water up to the "FULL" mark on the recovery tank.
- 8. Start and operate the engine for few minutes.
- 9. Stop the engine and let cool.
- 10. Check coolant level of recovery tank and add coolant if necessary.

4.0 L (4.2 U.S.qts.)



- (1) Drain plug
- (2) Rear tire (LH)



- (1) Radiator cap
- (2) Recovery tank
- (A) "FULL" (B) "LOW"

IMPORTANT :

- Do not start engine without coolant.
- Use clean, fresh water and anti-freeze to fill the radiator and recovery tank.
- When the anti-freeze is mixed with water, the antifreeze mixing ratio must be less than 50%.
- Securely tighten radiator cap. If the cap is loose or improperly fitted, water may leak out and the engine could overheat.

■Anti-Freeze



CAUTION

To avoid personal injury:

- When using antifreeze, put on some protection such as rubber gloves. (Antifreeze contains poison.)
- If you should drink antifreeze, throw up at once and take medical attention.
- When antifreeze comes in contact with the skin or clothing, wash it off immediately.
- Do not mix different types of Antifreeze.
 The mixture can produce chemical reaction causing harmful substances.
- Antifreeze is extremely flammable and explosive under certain conditions. Keep fire and children away from antifreeze.
- When draining fluids from the engine, place some container underneath the engine body.
- Do not pour waste onto the grounds, down a drain, or into any water source.
- Also, observe the relevant environmental protection regulations when disposing of antifreeze.

If it freezes, coolant can damage the cylinders and radiator. If the ambient temperature falls below $0\,^{\circ}\text{C}$ (32 $^{\circ}\text{F}$) or before a long-term storage, let out cooling water completely, or mix fresh water with long-life coolant and fill the radiator and recovery tank with the mixture.

- 1. Long-life coolant (hereafter LLC) comes in several types. Use ethylene glycol (EG) type for this engine.
- Before employing LLC-mixed cooling water, fill the radiator with fresh water and empty it again.
 Repeat this procedure 2 or 3 times to clean up the inside.
- Mixing the LLC
 Put the LLC in cooling water in the percentage (%) for a target temperature. When mixing, stir it up well, and then fill into the radiator.
- 4. The procedure for the mixing of water and antifreeze differs according to the make of the antifreeze and the ambient temperature. Refer to SAE J1034 standard, more specifically also to SAE J814c.

IMPORTANT:

 When the antifreeze is mixed with water, the antifreeze mixing ratio must be less than 50%.

Vol %	Freezing Point		Boiling Point*	
Anti-freeze	င	°F	ထ	°F
40	-24	-12	106	222
50	-37	-34	108	226

^{*} At 1.013 x 10⁵Pa (760 mmHg) pressure (atmospheric).

A higher boiling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

- 5. Adding the LLC
 - Add only water if the mixture reduces in amount by evaporation.
 - (2) If there is a mixture leak, add the LLC of the same manufacturer and type in the same mixture percentage.
 - * Never add any long-life coolant of different manufacturer. (Different brands may have different additive components, and the engine may fail to perform as specified.)
- When the LLC is mixed, do not employ any radiator cleaning agent. The LLC contains anticorrosive agent. If mixed with the cleaning agent, sludge may build up, adversely affecting the engine parts.
- 7. Kubota's genuine long-life coolant has a service life of 2 years. Be sure to change the coolant every 2 years.

NOTE :

 The above data represent industry standards that necessitate a minimum glycol content in the concentrated antifreeze. When the coolant level drops due to evaporation, add water only to keep the antifreeze mixing ratio less than 50%. In case of leakage, add antifreeze and water in the specified mixing ratio before filling into the radiator.

■ Replacing Radiator Hose (Water pipes)

Replace the hoses and clamps.

(See "Checking Radiator Hose and Clamp" in "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)

■Replacing Fuel Hose

Consult your local KUBOTA Dealer for this service.

■ Replacing Engine Breather Hose

Consult your local KUBOTA Dealer for this service.

■ Replacing Brake Master Cylinder (Inner Parts)

Consult your local KUBOTA Dealer for this service.

■ Replacing Front Brake Seal

Consult your local KUBOTA Dealer for this service.

■ Replacing Rear Brake Cylinder Seal

Consult your local KUBOTA Dealer for this service.

■ Replacing Intake Air Line

Consult your local KUBOTA Dealer for this service.

■Replacing Remote Hydraulic Hose

Consult your local KUBOTA Dealer for this service.

EVERY 4 YEARS

■ Replacing Brake Hose

Consult your local KUBOTA Dealer for this service.

SERVICE AS REQUIRED

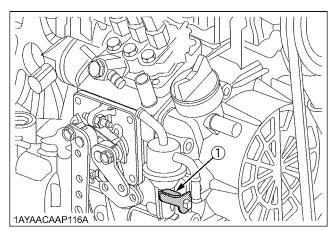
■Bleeding Fuel System

Air must be removed:

- 1. When the fuel filter or lines are removed.
- 2. When tank is completely empty.
- After the vehicle has not been used for a long period of time.

♦ Bleeding procedure is as follows:

- 1. Fill the fuel tank with fuel.
- 2. Pump the fuel pump lever. The fuel pump lever will pump easily at first and with added resistance as air is purged from the system.



(1) Fuel pump lever

3. Start the engine and run for about 30 seconds, and then stop the engine.

■Replacing Fuse

The vehicle electrical system is protected from potential damage by fuses.

A blown fuse indicates that there is an overload or short somewhere in the electrical system.

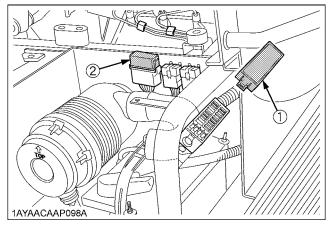
If any of the fuses should blow, replace with a new one of the same capacity.

IMPORTANT:

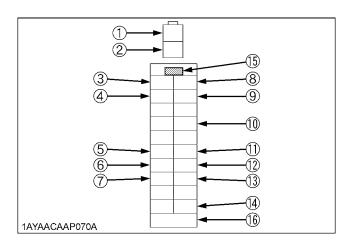
 Before replacing a blown fuse, determine why the fuse blew and make any necessary repairs. Failure to follow this procedure may result in serious damage to the vehicle electrical system. Consult your local KUBOTA Dealer for specific information dealing with electrical problems.

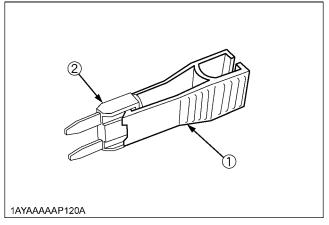
◆ Replacement procedure

- 1. Disconnect the negative cable of the battery.
- 2. Remove the fuse box cover.
- 3. Pull out the blown fuse using FUSE PULLER in the fuse box.
- 4. Insert a new fuse into the fuse box.
- 5. Install the fuse box cover.
- 6. Connect the negative battery cable.



- (1) Fuse box cover
- (2) Slow-blow fuse box cover





- (1) Fuse puller
- (2) Fuse

◆ Protected circuit

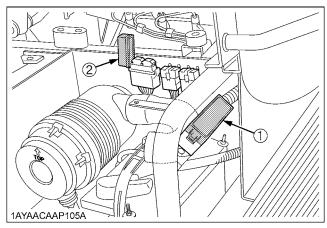
V I Totoctou on our			
Fuse No.	Capacity (A)	Protected circuit	
1	Slow-blow fuse (60)	Alternator	
2	Slow-blow fuse (50)	Key switch	
3	10	Alternator, Fan motor relay	
4	5	Panel	
5	30	Radiator fan	
6	10	Horn	
7	15	(Work light)	
8	15	Head light, Tail lamp	
9	5	Eng. Stop Solenoid relay	
10	5	Glow lamp	
11	20	Eng. Stop Solenoid	
12	10	12V DC output	
13	15	Brake lamp, (Hazard)	
14	30	Spare	
15		Fuse puller	
16	5, 10, 15, 20	Spare	

■ 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 cause. Never use any substitute, use only a KUBOTA genuine part.

◆ Replacement procedure

- 1. Disconnect the negative cable of the battery.
- 2. Open the slow-blow fuse box cover.
- 3. Pull out the slow-blow fuse.
- Insert a new slow-blow fuse into the slow-blow fuse box.
- 5. Close the slow-blow fuse box cover.
- 6. Connect the negative battery cable.



- (1) Fuse box cover
- (2) Slow-blow fuse box cover

■Replacing Light Bulb

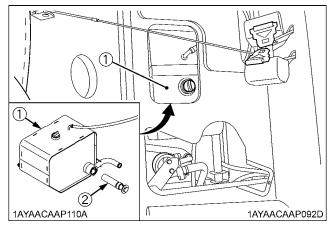
- Head lights
 Take the bulb out of the light body and replace it with a new one.
- 2. Other lights

 Detach the lens and replace the bulb.

Light	Capacity
Head lights	37.5 W
Tail light	5 W
Brake light	21 W
Easy Checker(TM)	3.8 W (14V, 0.27A)
Turn signal light (front)	20 W (if equipped)
Turn signal light (rear)	21 W (if equipped)
Work light	27 W (if equipped)
Instrument panel light	3.8 W (14V, 0.27A)

■ Checking Hydraulic Tank Suction Strainer

- 1. Make sure that the hydraulic tank is not damaged and the oil does not leak out of the hydraulic tank.
- 2. Make sure that the water is not mixed with the oil.
- 3. When the suction strainer is dirty, wash it with the light oil.



- (1) Hydraulic tank
- (2) Suction strainer

STORAGE



CAUTION

To avoid personal injury:

- Do not clean the vehicle with engine running.
- To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.
- When storing, remove the key from the key switch to avoid unauthorized persons from operating the vehicle and getting injured.

VEHICLE STORAGE

If you intend to store your vehicle for an extended period of time, follow the procedures outlined below.

These procedures will insure that the vehicle is ready to operate with minimum preparation when it is removed from storage.

- Check the bolts and nuts for looseness, and tighten if necessary.
- 2. Apply grease to vehicle areas where bare metal will rust also to pivot areas.
- 3. Unload from cargo bed.
- 4. Inflate the tires to a pressure a little higher than usual.
- 5. Change the engine oil and run the engine to circulate oil throughout the engine block and internal moving parts for about 5 minutes.
- 6. With all implements lowered to the ground, coat any exposed hydraulic cylinder piston rods with grease (if equipped).
- Remove the battery from the vehicle. Store the battery following the battery storage procedures.
 (See "Checking Battery Condition" in "EVERY 100")
- HOURS" in "PERIODIC SERVICE" section.)

 8. Keep the vehicle in a dry place where the vehicle is sheltered from the elements. Cover the vehicle.
- Store the vehicle indoors in a dry area that is protected from sunlight and excessive heat. If the vehicle must be stored outdoors, cover it with a waterproof tarpaulin.

Put boards under the tires to keep dampness away from tire.

Keep the tires out of direct sunlight and extreme heat.

IMPORTANT:

- When washing the vehicle, be sure to stop the engine.
 Allow sufficient time for the engine to cool before washing.
- Do not wash with a high-pressure car-washing machine
- Cover the vehicle after the muffler and the engine have cooled down.

REMOVING THE VEHICLE FROM STORAGE

- Check the tire air pressure and inflate the tires if they are low.
- Install the battery. Before installing the battery, be sure it is fully charged.
- 3. Check the alternator belt tension.
- 4. Check all fluid levels (engine oil, transmission oil, engine coolant and any attached implements).
- 5. Start the engine. Observe all gauges. If all gauges are functioning properly and reading normal, move the vehicle outside. Once outside, park the vehicle and let the engine idle for at least five minutes. Shut the engine off and walk around vehicle and make a visual inspection looking for evidence of oil or water leaks.
- 6. With the engine fully warmed up, release the parking brake and test the brakes for proper adjustment as you move forward. Adjust the brakes as necessary.

TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, refer to the table below for the cause and its corrective countermeasure.

Trouble		Cause	Countermeasure
Engine is difficult to start or won't start.		No fuel flow.	Check the fuel tank and the fuel filter. Replace filter if necessary.
		Air or water is in the fuel system.	 Check to see if the fuel line coupler bolt and nut are tight. Bleed the fuel system. (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)
		 In winter, oil viscosity increases, and engine revolution is slow. 	 Use oils of different viscosities, depending on ambient temperatures.
		Battery becomes weak and the engine does not turn over quick enough.	 Clean battery cables and terminals. Charge the battery. In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the vehicle only when the vehicle is going to be used.
Insufficient engine power.		Insufficient or dirty fuel.The air cleaner is clogged.	Check the fuel system.Clean or replace the element.
Engine stops suddenly.		Insufficient fuel.	Refuel.Bleed the fuel system if necessary.
Exhaust fumes are colored.	Black	Fuel quality is poor.Too much oil.The air cleaner is clogged.	 Change the fuel and fuel filter. Check the proper amount of oil. Clean or replace the element.
	Blue white	 The inside of exhaust muffler is dumped with fuel. Injection nozzle trouble. Fuel quality is poor. 	 Heat the muffler by applying load to the engine. Check the injection nozzle. Change the fuel and fuel filter.
Engine overheats		Engine overloaded.	Shift to lower gear or reduce load.
		Low coolant level.	Fill cooling system to the correct level; check radiator and hoses for loose connections or leaks.
		The motor driven fan does not turn.	Check to see if the fuse is not blown.Check the electric system.
		Dirty radiator core or grille screens.	Remove all trash.
		Coolant flow route corroded.	Flush cooling system.

If you have any questions, contact your local KUBOTA Dealer.

BATTERY TROUBLESHOOTING

Trouble	Cause	Countermeasure	Preventive measure
Starter does not function.	Battery overused until lights are dim.	Charge battery sufficiently.	Charge the battery properly.
	Battery has not been recharged.		
	Poor terminal connection.	Clean the terminal and tighten securely.	 Keep the terminal clean and tight. Apply grease and treat with anti-corrosives.
	Battery life expired.	Renew battery.	
From beginning starter does not function, and lights soon become dim.	Insufficient charging.	Charge battery sufficiently.	Battery must be serviced properly before initial use.
When viewed from top, the top of plates look whitish. * Refillable type battery only	 Battery was used with an insufficient amount of electrolyte. 	 Add distilled water and charge the battery. 	Regularly check the electrolyte level.
	Battery was used too much without recharging.	Charge battery sufficiently.	Charge the battery properly.
Recharging is impossible.	Battery life expired.	Replace battery.	
Terminals are severely corroded and heat up.	Poor terminal connection.	Clean the terminal and tighten securely.	 Keep the terminal clean and tight. Apply grease and treat with anti-corrosives.
Battery electrolyte level drops rapidly. * Refillable type battery only	There is a crack or pin holes in the electrolytic cells.	Replace battery.	
	Charging system trouble.	Consult your local KUBOTA Dealer.	

- If you have any questions, consult your local KUBOTA Dealer.
 The factory-installed battery is non-refillable type.

MACHINE TROUBLESHOOTING

Trouble	Cause	Countermeasure
Machine operation is not smooth.	Hydrostatic transmission fluid is insufficient.	Replenish oil.
	Filter is clogged.	Replace the filter.
Machine does not move while	Parking brake is on.	Release the parking brake.
engine is running.	Transmission fluid level is insufficient.	Replenish oil.
Brakes not working correctly	Brake fluid level is low.	Check fluid level.
	Air is in brake system.	Consult your KUBOTA Dealer.
	Brake pads are worn.	Consult your KUBOTA Dealer.
Brake noise		Consult your KUBOTA Dealer.

If you have any questions, consult your local KUBOTA Dealer.

OPTIONS

Consult your local KUBOTA Dealer for further details.

- Backup Beeper
- Bed Liner
- Cab Heater (cab only)
- Console Kit

(for cab, with FM / AM / CD unit / blower / dome light)

- Front Accessory Box
- Front Heavy Load Springs (required for cab or enclosure or front blade)
- Front Heavy Load Strut
- Front Mud Guard
- Front Trailer Hitch & Pin (2")
- Front Work Light (for plastic canopy or no canopy, two lights)
- Glove Box
- Headrest
- Plastic Canopy
- Rear Trailer Hitch & Pin (2")
- Rear Work Light (for plastic canopy or no canopy, one light)
- Windshield
- Snow Blade (72") require Heavy Duty Spring Kit
- Steel Cab (W/ steel doors)
- Strobe Light
- Superwinch ATV 2000
- Tail Lamp Guards
- Turn Signal / Hazard Light Kit
- Warn 2.5CI
- Work Lights Kit (for metal canopy or cab, include two lights for front or rear)

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