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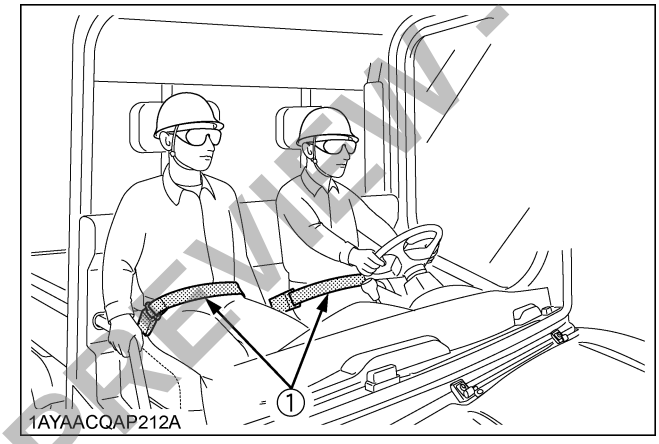
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⚠ SAFE OPERATION

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

1. BEFORE OPERATING THE VEHICLE

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the vehicle.
2. Pay special attention to the Danger, Warning and Caution labels on the vehicle.
3. Fastening seat belts at all times will reduce the risk of serious injury or death, should the vehicle be upset.
   Never modify or repair a CAB because welding, bending, drilling, grinding, or cutting may weaken the structure.
   A damaged CAB structure must not be repaired or revised.
   If any structural member of the CAB is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) 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. Do not allow any bystanders around or near the vehicle during operation.
7. Never allow anyone under age 16 or without a valid driver's license to operate this vehicle.
8. Before allowing other people to use your vehicle, explain how to operate and have them read this manual before operation.
9. Never wear loose, torn, or bulky clothing around the vehicle. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. helmet, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
10. This vehicle is for off road use only.
    KUBOTA does not recommend operating on public roads.
11. In addition to the driver, only 1 passenger should ride in the vehicle.
    Minimum age for passenger is 5 years old.
12. Keep all shields in place and stay away from all moving parts.
13. Check brakes, speed control pedal, and other mechanical parts for improper adjustment and wear.
    Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
14. Keep your vehicle clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
15. Use only implements meeting the specifications listed under "VEHICLE LIMITATIONS" in this manual or implements approved by KUBOTA.
16. The maximum cargo capacity of this vehicle is 500 kg (1100 lbs.). Reduce cargo capacity to match operating conditions.
    Avoid top-heavy loading and ensure that the center-of-gravity remains as low as possible.
    Do not carry anything which 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.
18. Do not carry small children on lap.

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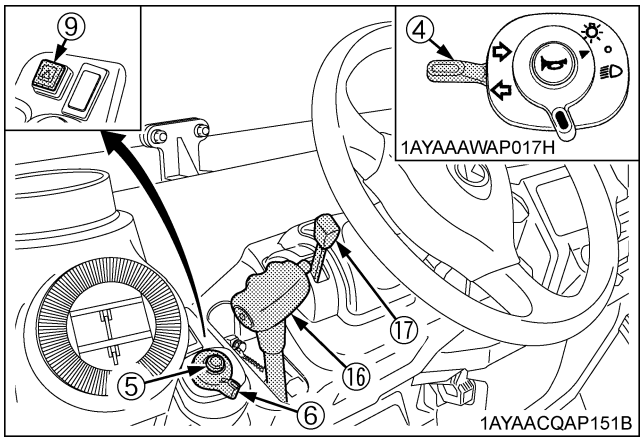
SPECIFICATIONS

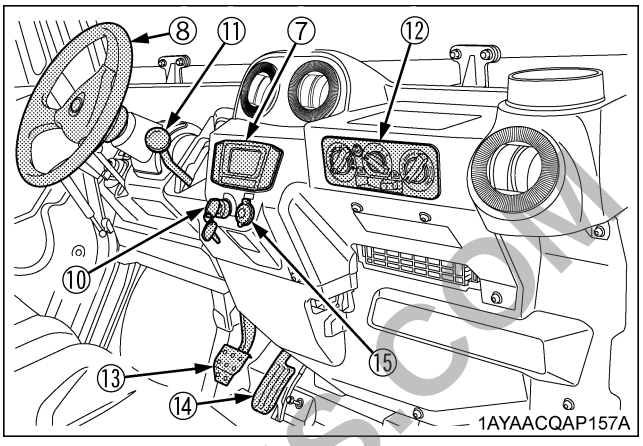
SPECIFICATION TABLE

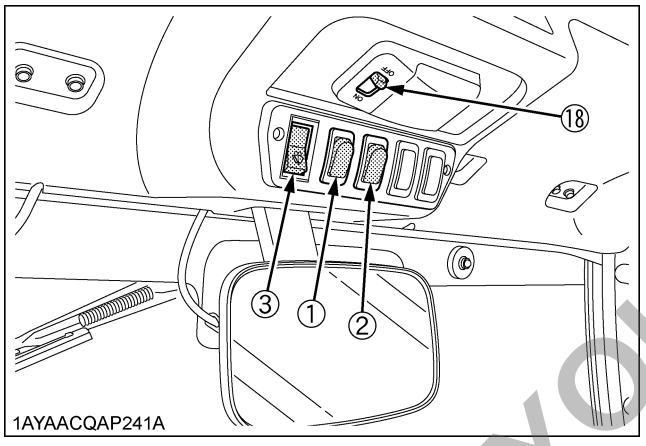
Model				Worksite/Orange	Worksite/Camo
Engine	Make			D1105	
	Type			3 cylinders, 4-cycle, diesel, OHV	
	Displacement		L (cu. in.)	1.123 (68.530)	
	Horsepower		kW (HP)	18.5 (24.8)	
	Rated revolution		rpm	3000	
	Low idling revolution		rpm	1350 to 1450	
Fuel Capacity			L (U.S.gals)	30 (7.9)	
Transmission				Continuously variable hydro transmission (VHT)	
Wheels, Drive system				4, Rear 2WD or 4WD	
Differential lock				Standard; foot operated with mechanical holder	
Gear selection				Hi-Lo range forward, neutral, reverse	
Brakes	Front / Rear			Wet disk brake	
	Parking brake			Rear wheel, hand lever	
Steering				Hydrostatic power	
Suspension	Front			Independent, Dual A-Arm type	
	Rear				
Dimensions	Length		mm (in.)	3110 (122.5)	
	Width		mm (in.)	1660 (65.4)	
	Height, overall		mm (in.)	2090 (82.3)	
	Front tread centers		mm (in.)	1240 (48.8) HDWS, ATV 1290 (50.8) Turf	
	Rear tread centers		mm (in.)		
	Wheelbase		mm (in.)	2045 (80.5)	
	Ground clearance	front axle	mm (in.)	266 (10.5)	
		rear axle		263 (10.4)	
	Turning diameter		m (ft)	8.0 (26.2)	
Max. Rolling weight (Towing capacity)			kg (lbs.)	Rear: 590 (1300), Front: 295 (650)	
Payload capacity			kg (lbs.)	734 (1618)	
Weight			kg (lbs.)	1075 (2370)	
Gross Vehicle Weight Rating (GVWR)			kg (lbs.)	1814 (3999)	

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OPERATING THE VEHICLE

OPERATING NEW VEHICLE

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

A new vehicle just off the factory production line has been 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 serious injury or death:

- **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.**

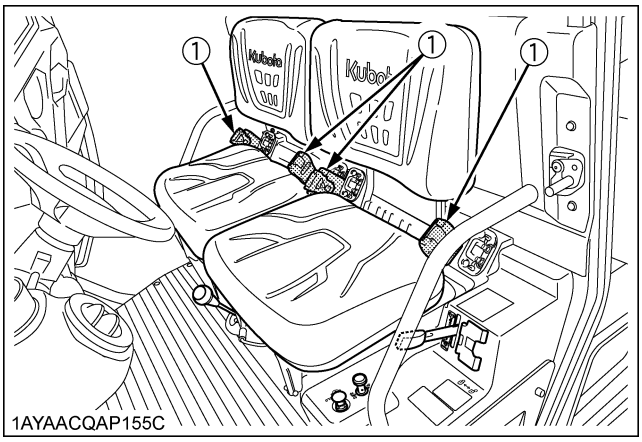
  Where appropriate, use a child safety seat.

WARNING

To avoid serious injury or death:

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

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



(1) Seat belt

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■Traversing Hillsides

WARNING

To avoid serious injury or death:

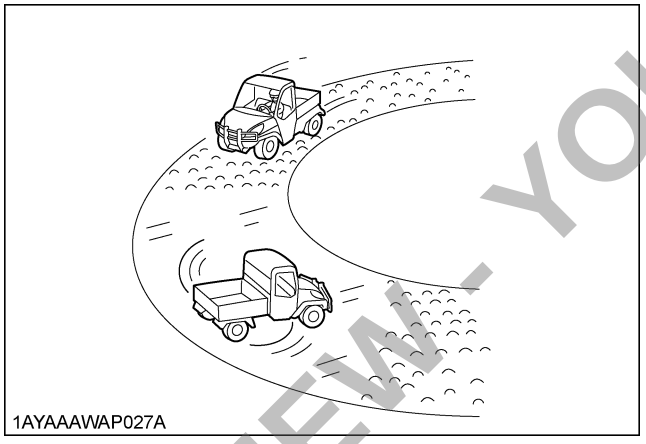
- **Reduce vehicles speed to prevent tipping or loss of control.**
- **Do not traverse hillsides that are slippery or covered with rocks or obstacles which may cause you to tip over.**

■Sliding and Skidding

WARNING

To avoid serious injury or death:

- **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.**

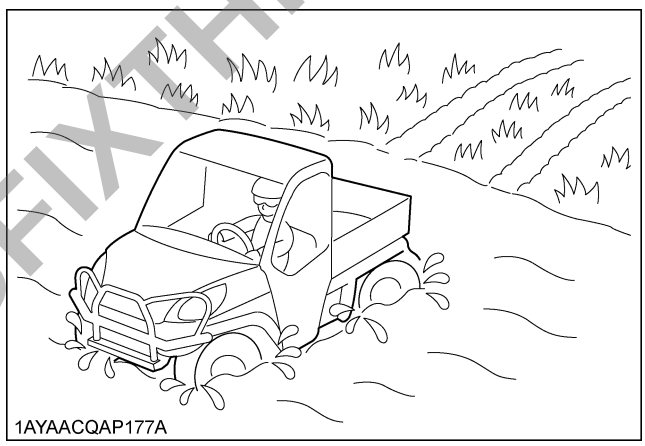

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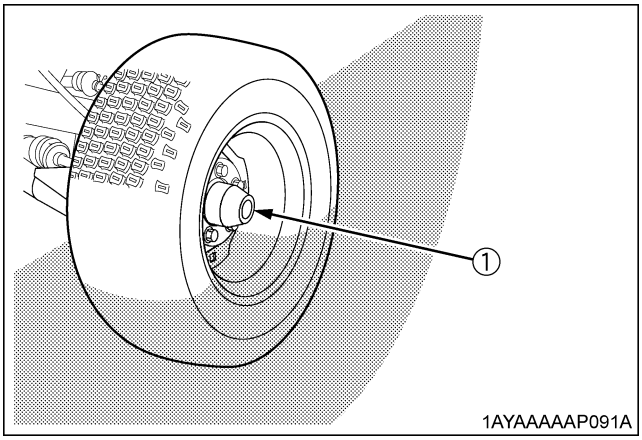
■Driving through Water

WARNING

To avoid serious injury or death:

- **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.**
- **Before entering water, check for rocks, holes or other obstacles that may cause overturn, stuck or submerged.**
- **Never operate the vehicle in the fast flowing water or in water deeper than the bottom edge of the axle caps.**


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(1) Axle cap

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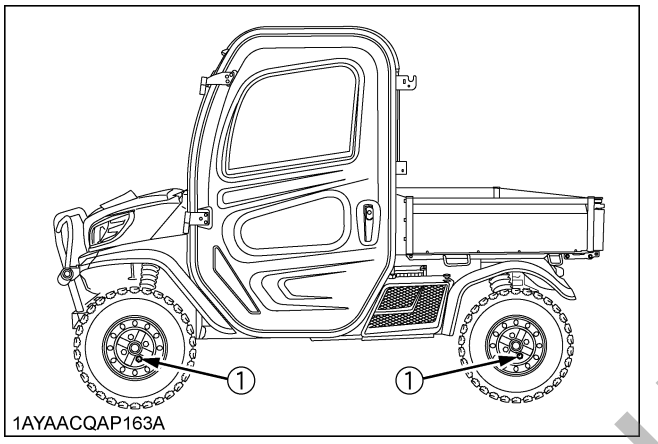
■Checking Wheel Fastener Torque

WARNING

To avoid serious injury or death:

- **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.



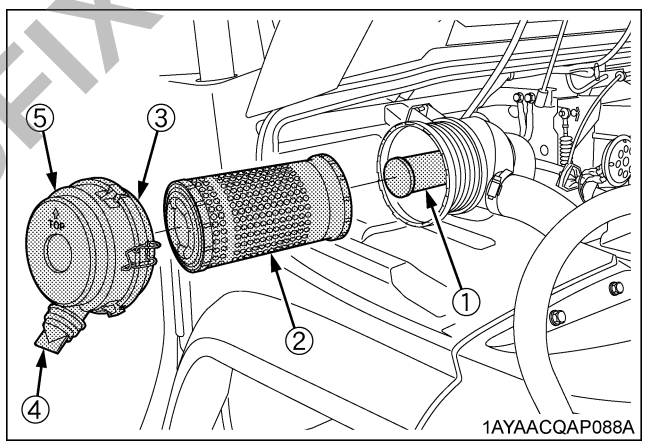
(1) Tightening torque (bolts and nuts)
Aluminum wheel: 90 to 110 N-m
(9.2 to 11.2 kgf-m) (66.4 to 81.1 lbf-ft)
Steel wheel: 108 to 130 N-m
(11.1 to 13.2 kgf-m) (79.7 to 95.8 lbf-ft)

■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, replace the element with new one even if it has not been used for 1 year.
   Do not blow material onto yourself. Wear appropriate protective gear when cleaning element.
3. Replace the primary element:
   Once yearly or 1000 hours 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 :

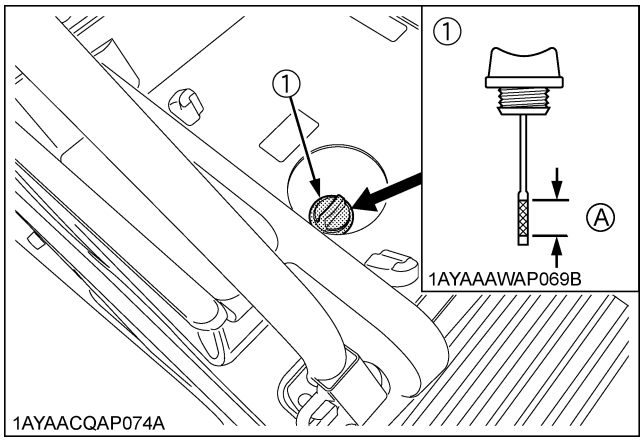
- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit the cover with the arrow (on the rear of cover) upright. If the cover is improperly fitted, evacuator valve will not function and dust will adhere to the element.
- Do not touch the secondary element except in cases where replacing is required.

◆ 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.

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

■Checking Brake Pedal

WARNING

To avoid serious injury or death:

- **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

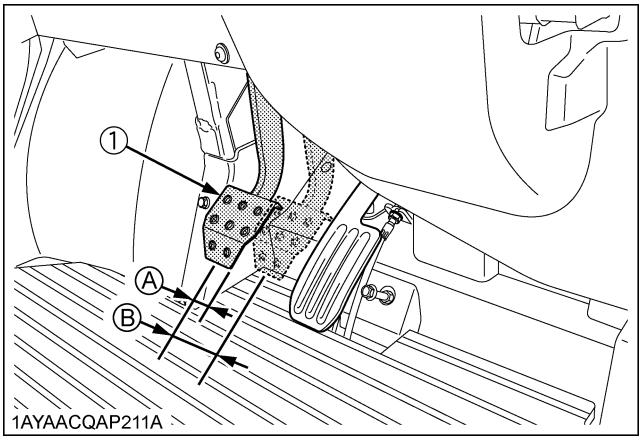
Proper brake pedal free travel	8 to 18 mm (0.3 to 0.7 in.) on the pedal

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 150 mm (5.9 in.) on the pedal

1. Release the parking brake.
2. Step on the pedal and measure the pedal stroke.
3. 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"*

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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.

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SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to 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, could result in minor or moderate injury.
IMPORTANT :	Indicates that equipment or property damage could result if instructions are not followed.
NOTE :	Gives helpful information.

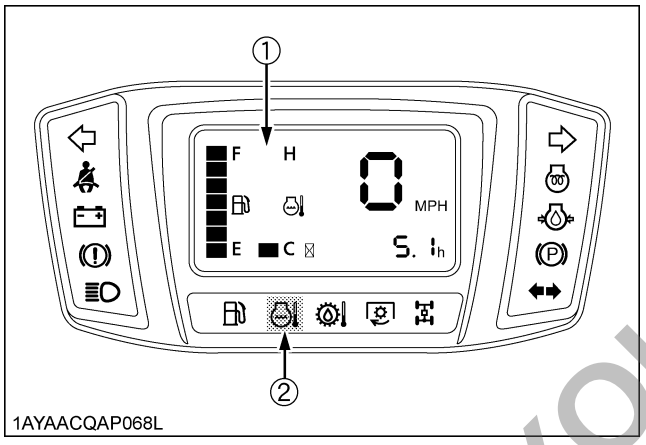
■Coolant Temperature Gauge

WARNING

To avoid serious injury or death:

- **Do not remove radiator cap until coolant and engine temperature has cooled. Then loosen cap slightly to the stop to relieve any pressure before removing cap completely.**

1. With the key switch "ON" the coolant temperature gauge indicates the temperature of the coolant.
2. If the engine is overheated, the warning lamp will come on and the buzzer will sound. Check the vehicle by referring to "TROUBLESHOOTING" section.



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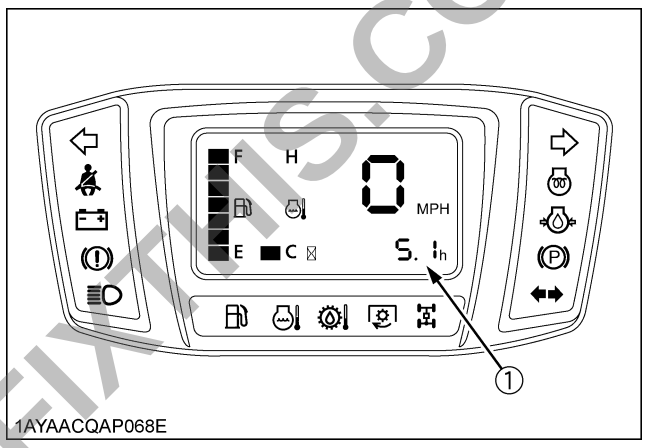
(1) Coolant temperature gauge
(2) Overheat warning lamp

IMPORTANT :

- If the engine overheat and VHT overheat occur together, do not stop the engine. When it is safe to do so, remove the engine load and keep the engine idling to allow cool down to occur.
  After the warning lamps go off, wait for 5 minutes, and stop the engine.
  See "TROUBLESHOOTING" section.

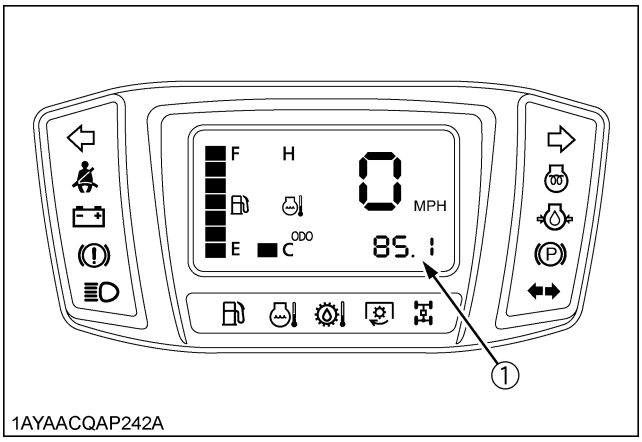
■Hourmeter and Odometer

When the key is turned to the "ON" position and the engine is not running, the hourmeter is displayed.
When the key is the "ON" position and the engine is running, the odometer is displayed.
The hourmeter indicates in 5 digits the hours the vehicle has been used; the last digit indicates 1/10 of an hour.
The odometer indicates in 5 digits the distance the vehicle has been used; the last digit indicates 1/10 of a mile.



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(1) Hourmeter



1AYAACQAP242A

(1) Odometer

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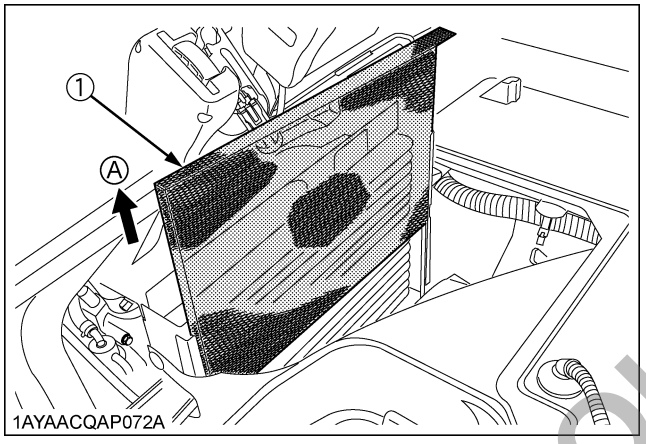
■Cleaning Oil Cooler Net

WARNING

To avoid serious injury or death:

- **Allow oil cooler or oil line parts to cool down sufficiently, they can be hot and can cause injury.**

1. Park the vehicle on a flat surface.
2. Stop the engine.
3. Open the seats and remove the utility box and maintenance cover.
4. Detach the oil cooler net and remove all trash.



(1) Oil cooler net *(A) "DETACH"*

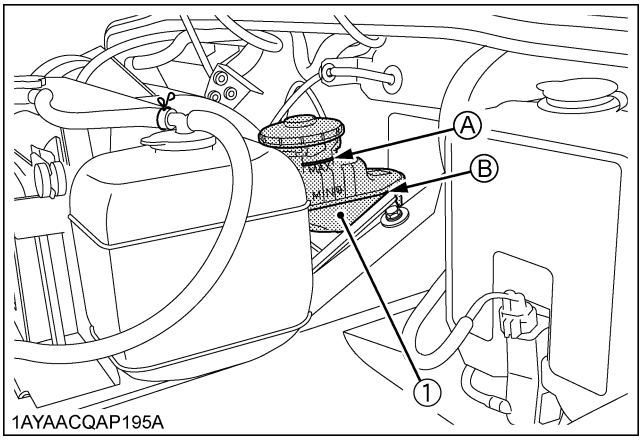
■Checking Brake Fluid Level

WARNING

To avoid serious injury or death:

- **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 the power steering hose, wash off with water immediately. Brake fluid quickly ruins synthetic resin or rubber hoses.**

1. Park the vehicle on a level surface.
2. Open the hood.
3. Check to see that the brake fluid level is between the "MAX" and "MIN" marks.
4. If it is below the "MIN" mark, add brake fluid to the "MAX" mark.



(1) Oil tank *(A) "MAX"*
(B) "MIN"

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