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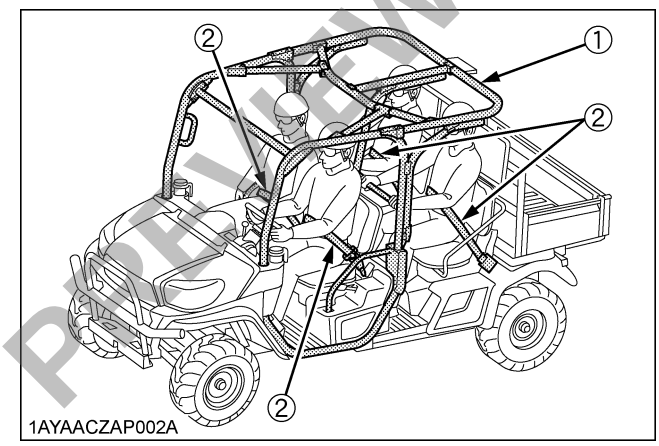
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# ⚠ SAFE OPERATION

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

## 1. BEFORE OPERATING THE VEHICLE

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



1AYAACZAP002A

*(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 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 on row 1 seating mode and 3 passengers maximum for row 2 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 500 kg (1100 lbs.) for row 1 seating mode and 300 kg (661 lbs.) for row 2 seating mode. 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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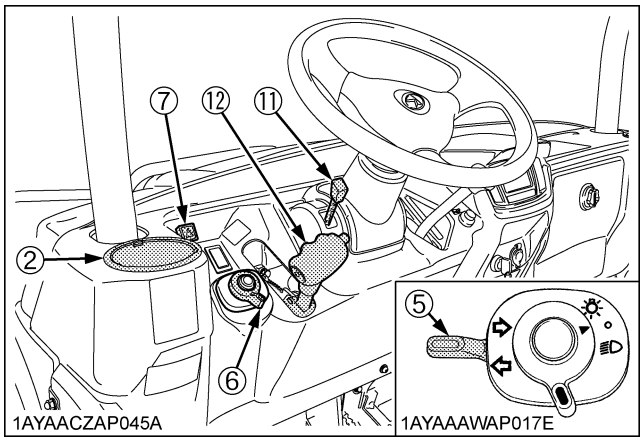
# SPECIFICATIONS

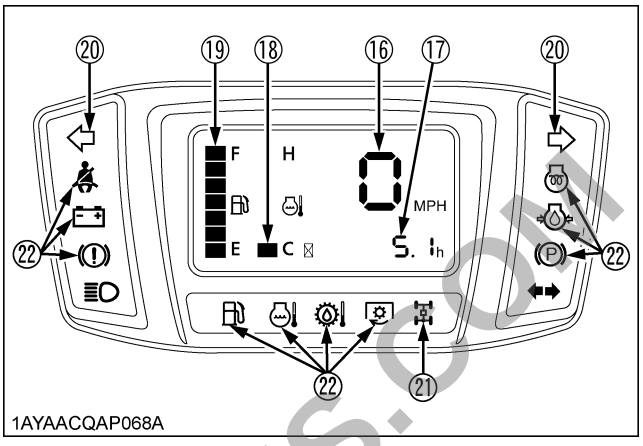
## SPECIFICATION TABLE

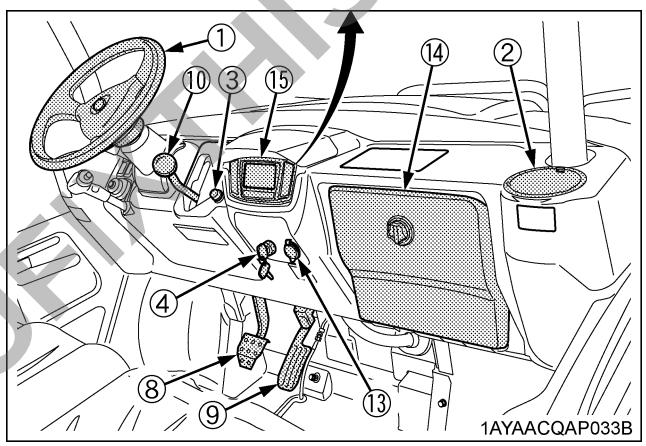
| Model | | | | RTV-X1140 | |
|---|---|---|---|---|---|
| | | | | Worksite/Orange | Worksite/Camo |
| Engine | Make | | | D1105 | |
| | Type | | | 3 cylinders, 4-cycle, diesel, OHV | |
| | Displacement | | L (cu. in.) | 1.123 (68.53) | |
| | Horsepower (Gross) | | kW (HP) | 18.5 (24.8) | |
| | Rated revolution | | rpm | 3000 | |
| | Low idling revolution | | rpm | 1400 to 1500 | |
| 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-Low 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.) | 3610 (142.1) | |
| | Width | | mm (in.) | 1605 (63.2) | |
| | Height, overall | | mm (in.) | 2025 (79.7) | |
| | Front tread centers | | mm (in.) | 1280 (50.4) HDWS, ATV | |
| | Rear tread centers | | mm (in.) | | |
| | Wheelbase | | mm (in.) | 2495 (98.2) | |
| | Ground clearance | front axle | mm (in.) | 285 (11.2) | |
| | | rear axle | mm (in.) | 240 (9.4) | |
| | Turning diameter | | m (ft) | 10.4 (34.1) | |
| Max. Rolling weight (Towing capacity) | | | kg (lbs.) | Rear: 590 (1300), Front: 295 (650) | |
| Payload capacity | | | kg (lbs.) | 739 (1629) | |
| Weight | | | kg (lbs.) | 1075 (2370) | |
| Gross Vehicle Weight Rating (GVWR) | | | kg (lbs.) | 1814 (3999) | |

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ILLUSTRATED CONTENTS

*(1) Steering wheel..... --*
*(2) Cup holder..... --*
*(3) Horn button..... 17*
*(4) Key switch..... --*
*(5) Turn signal light switch (if equipped)..... 17*
*(6) Head light switch..... 16*
*(7) Hazard light switch (if equipped)..... 17*
*(8) Brake pedal..... 18*
*(9) Speed control pedal..... 20*
*(10) Range gear shift lever..... 19*
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*(13) 12V accessory plug..... 24*
*(14) Glove box cover..... 25*
*(15) Liquid crystal display..... 21*
*(16) Speedometer..... 23*
*(17) Hourmeter..... 23*
*(18) Coolant temperature gauge..... 22*
*(19) Fuel gauge..... 22*
*(20) Turn signal indicator (if equipped) / Hazard signal indicator (if equipped)..... 17, 17*
*(21) 4WD indicator..... 19*
*(22) Easy Checker(TM)..... 21*

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# OPERATING THE ENGINE

## WARNING

**To avoid serious injury or death:**

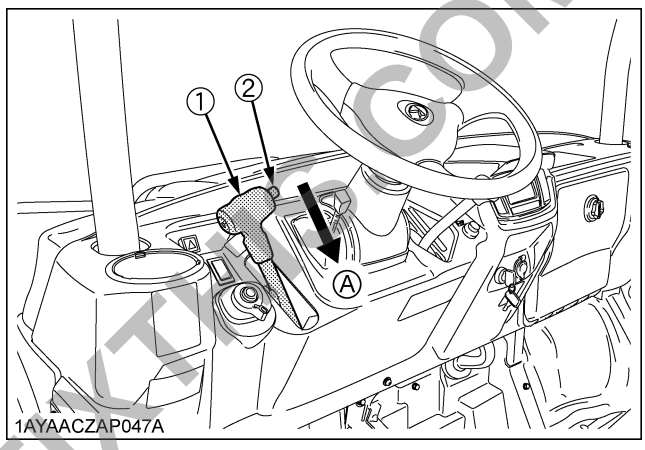
- **Read and understand "Safe Operation" in front of this manual.**
- **Read and understand the danger, warning and caution labels located on the vehicle.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start engine while standing on ground. Start engine only from operator's seat.**
- **Always set range gear shift lever to the "NEUTRAL" position and to place the Hydraulic Outlet lever (if equipped) in "OFF" position and to place the hydraulic lift cylinder lever to the "NEUTRAL" position before starting the engine.**
- **Make sure the engine hand throttle (if equipped) is in its idle engine speed position.**

**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.

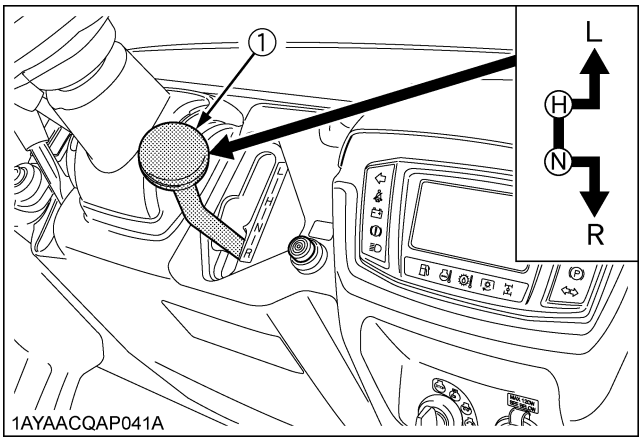
## STARTING THE ENGINE

**1. Make sure the parking brake is set.**




*(1) Parking brake lever*
*(2) Release button*
*(A) Pull to "PARK"*

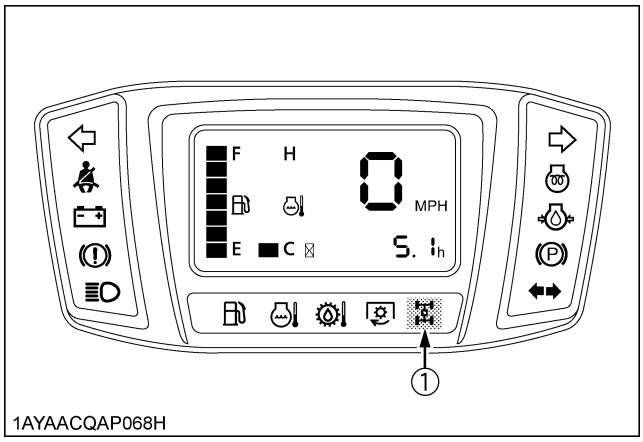
**2. Set the range gear shift lever to the "NEUTRAL" position.**




*(1) Range gear shift lever*
*(L) LOW Range*
*(H) HIGH Range*
*(N) "NEUTRAL"*
*(R) "REVERSE"*

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*(1) 4WD indicator*

**IMPORTANT :**

- Use the lever to engage the front wheels with the vehicle stopped. Shift the lever to "4WD" to engage the front wheel drive.
  When the lever is in "4WD" position, the 4WD indicator comes on.
- Tires will wear quickly if front wheel drive is engaged on paved roads.

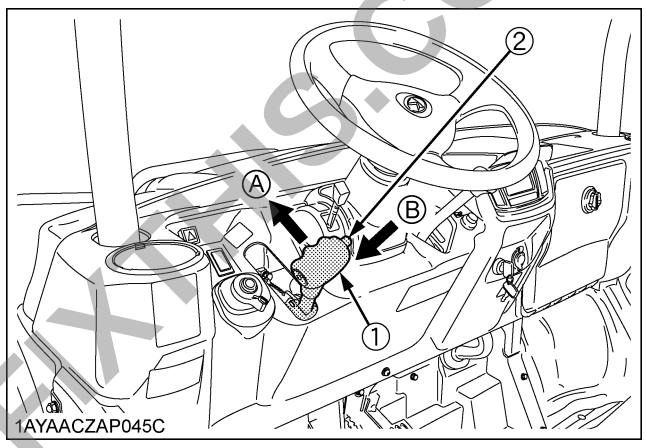
◆ **Front wheel drive is effective for the following jobs:**

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.

**9. Unlock the parking brake and start slowly.**

## ■Parking Brake Lever

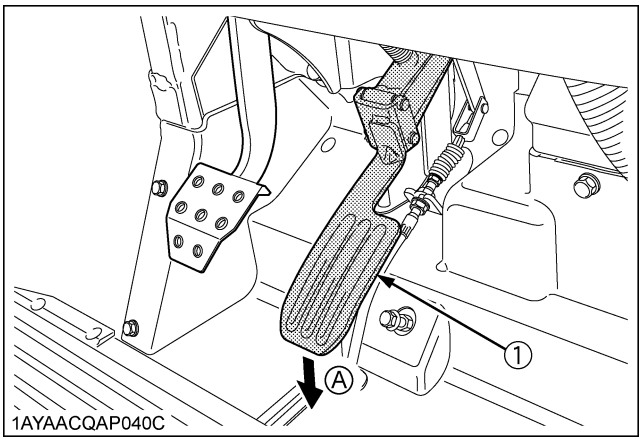
To release the parking brake, depress the brake pedal, push release button and push up parking brake lever. Depressing the brake pedal makes release force smaller. Make sure that indicator in the Easy Checker(TM) goes off.




*(1) Parking brake lever* *(A) "RELEASE"*
*(2) Release button* *(B) "PUSH"*

## ■Speed Control Pedal

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



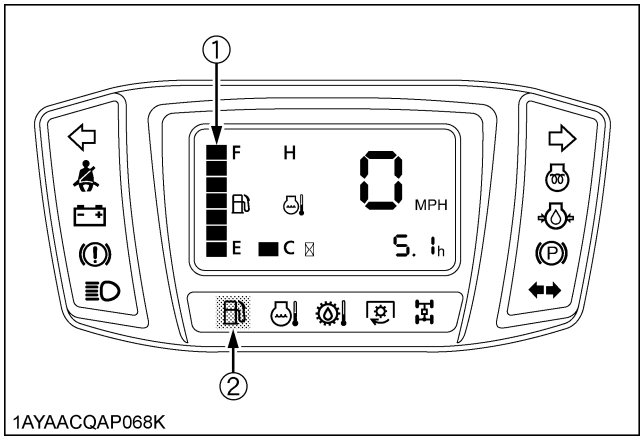

*(1) Speed control pedal* *(A) "INCREASE"*

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## ■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*
*(2) Fuel level warning lamp*

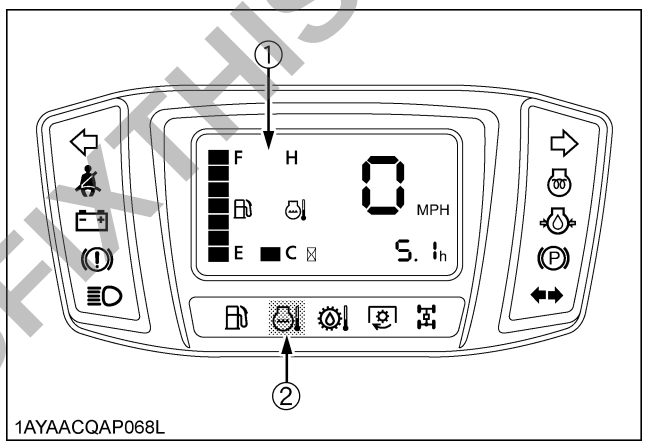
## ■Coolant Temperature Gauge

**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.




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

**IMPORTANT :**

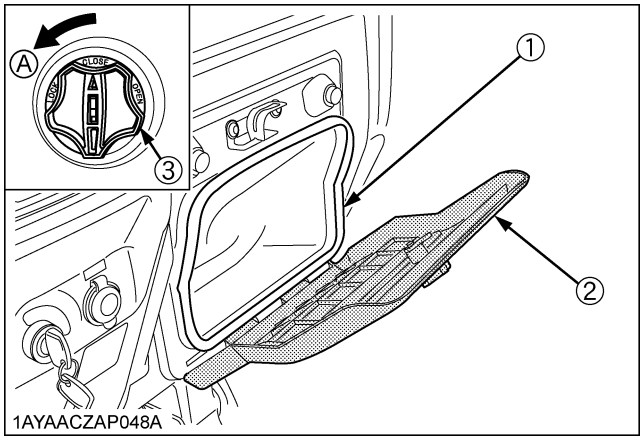
- If the engine overheat and VHT overheat occur together, do not stop the engine. When it is safe to do so, remove the engine load and keep the engine idling to allow cool down to occur.
  After the warning lamps go off, wait for 5 minutes, and stop the engine.
  See "TROUBLESHOOTING" section.

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### ■Glove Box (Std.) and Glove Box Cover

Insert the key into the knob slot and turn it counterclockwise to lock.
Insert the key into the knob slot and turn it clockwise to unlock.




*(1) Glove box*
*(2) Glove box cover*
*(3) Knob*
*(A) "LOCK"*

# OPERATING TECHNIQUES

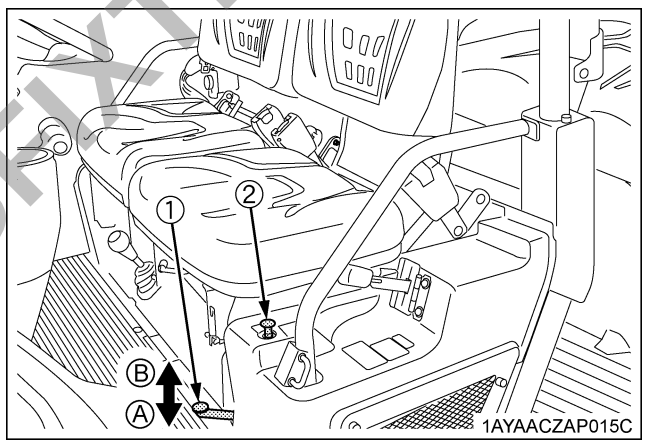
### ■Differential Lock

**WARNING**

**To avoid serious injury or death 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*
*(2) Differential lock holder*
*(A) Depress to "ENGAGE"*
*(B) Release to "DISENGAGE"*

◆ **Handling the retaining device for differential lock**

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

**IMPORTANT :**

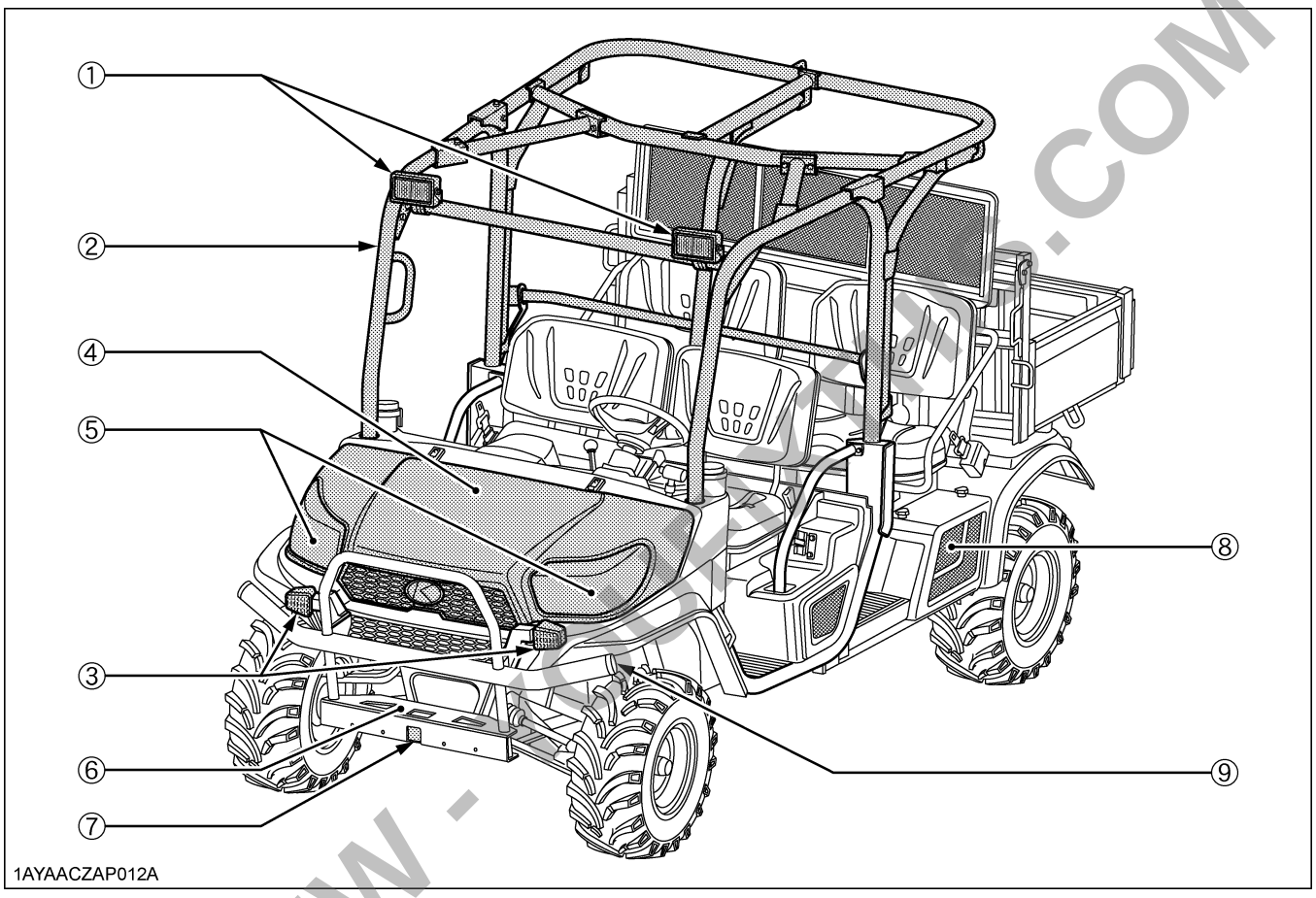
- When using the differential lock, always slow the vehicle and engine down.
- To prevent damage to power train, do not engage differential lock when one wheel is spinning and the other is completely stopped.

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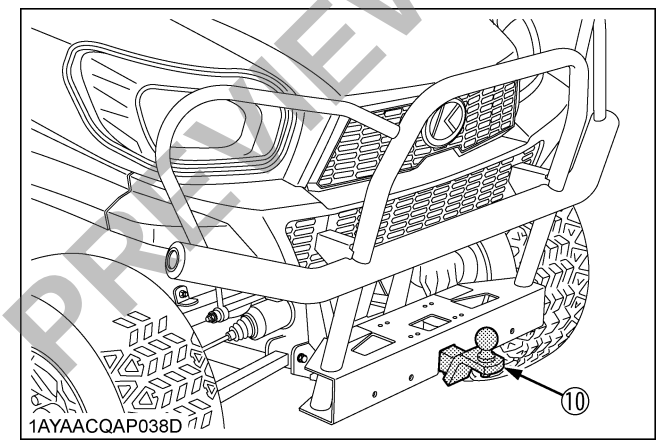
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# INSTRUMENT PANEL AND CONTROLS

## LOCATION OF PARTS



1AYAACZAP012A



1AYAACQAP038D

ILLUSTRATED CONTENTS

*(1) Front work light (if equipped)..... 18*
*(2) ROPS..... --*
*(3) Hazard / Turn signal light (if equipped)..... 17, 17*
*(4) Front hood..... 49*
*(5) Headlights..... 16*
*(6) Winch mount bracket..... 41*
*(7) Front trailer hitch bracket..... 40*
*(8) Battery..... 65*
*(9) Front guard..... --*
*(10) Front trailer hitch (if equipped)..... 40*

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# WHEELS

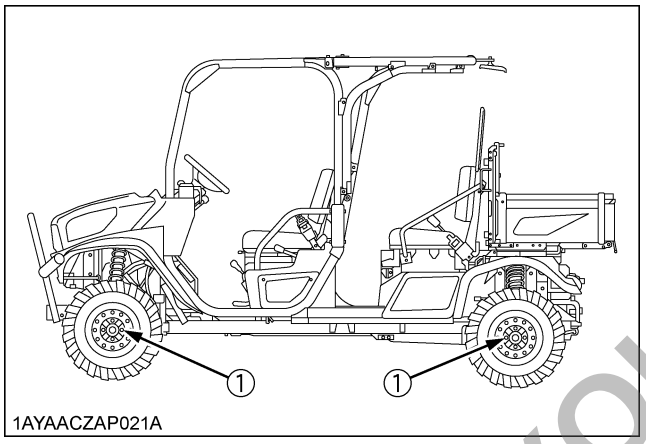
**WARNING**

**To avoid serious injury or death:**

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

**IMPORTANT :**

- When re-fitting a wheel, tighten the nuts to the following torques then recheck after driving the vehicle 200 m (220 yards), tighten the nuts again, after driving in 10 hours, and thereafter according to service interval.




*(1) Tightening torque*
*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)*

# SHOCK ABSORBERS

## ■Shock Absorber Spring Adjustment

**WARNING**

**To avoid serious injury or death:**

- **For shock absorber spring adjustment, make sure to consult your local KUBOTA dealer.**

The front and rear shock absorber springs can be adjusted for different riding and loading condition.

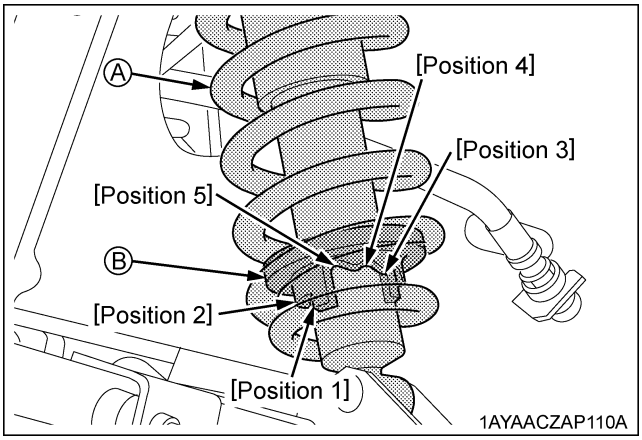
**[Shock absorber position]**

| Position | Spring | Load |
|---|---|---|
| 1 | Stronger | Heavy |
| 2 | ↑ | ↑ |
| 3 (default) | I | I |
| 4 | ↓ | ↓ |
| 5 | Weaker | Light |

**NOTE :**

- If equipped with cab, the front and rear shock absorber position are set to position1.

The front and rear shock absorber springs, is adjusted to third position (default) in the figure below.




*(A) Rear shock absorber*
*(B) Adjusting sleeve (Turn here with a hook wrench.)*

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## 8. DANGER, WARNING AND CAUTION LABELS

(1) Part No. K7591-6541-1



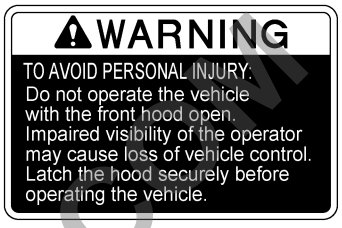

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(2) Part No. K7591-6526-1




1AYAACQAP014A

(3) Part No. K7591-6528-2




1AYAACQAP019A

(4) Part No. K7621-6538-1



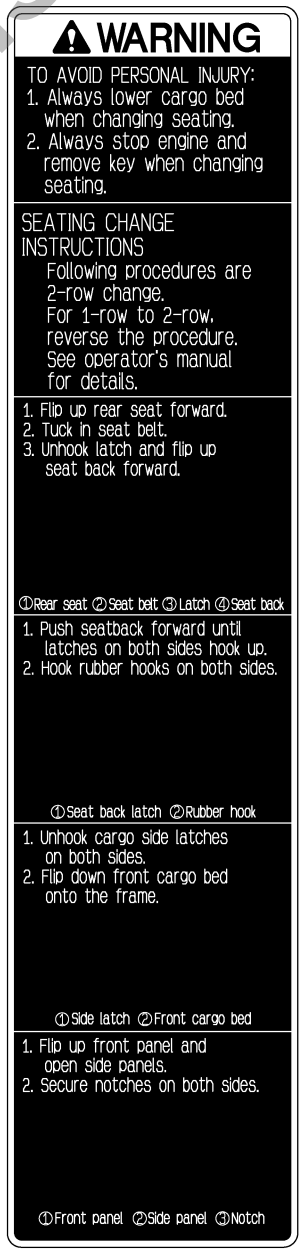

1AYAACZAP065A

(5) Part No. K7621-6527-1




1AYAACQAP013A

(6) Part No. K7621-6589-1

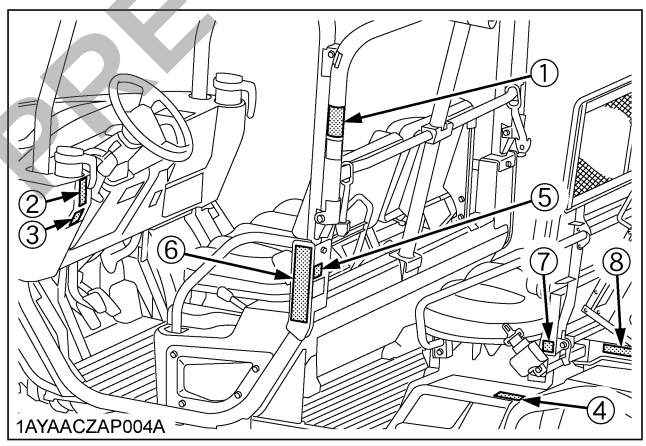



1AYAACZAP097A

(8) Part No. K7591-6542-1




1AYAACQAP005A




1AYAACZAP078A

(7) Part No. K7621-6588-1

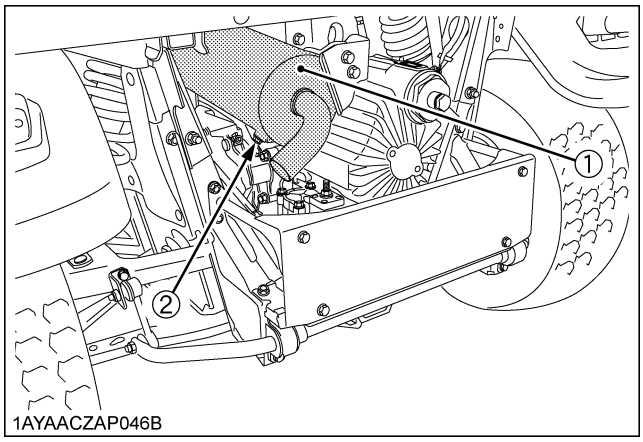


1AYAACZAP098A

- Be careful not to get your fingers and hands caught in switching the seats.

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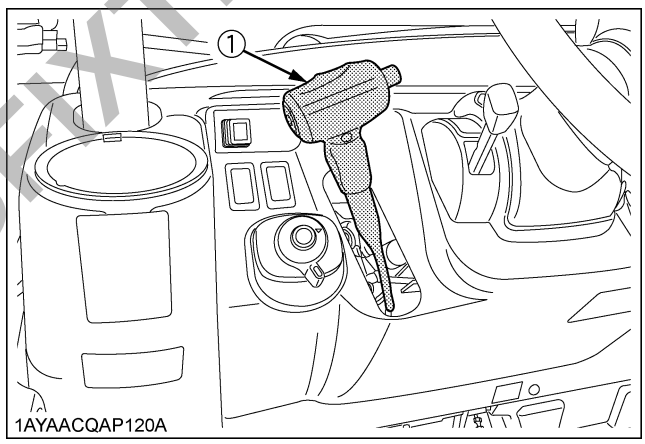

*(1) Muffler*
*(2) Drain plug*

# EVERY 200 HOURS

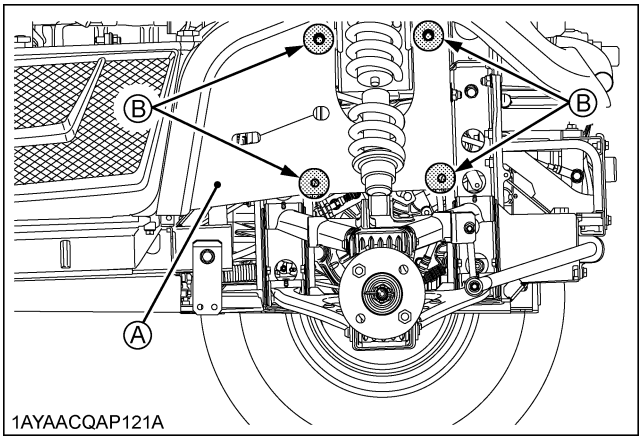
## ■Adjusting Parking Brake

| | |
|---|---|
| Proper parking brake lever free play range | 1 notch |

◆ **Adjusting procedure**
1. Park the vehicle on a flat surface.
2. Stop the engine.
3. Jack up the rear wheels.
4. Remove the left rear tire.
5. Remove the mud guard of rubber.
6. Release the parking brake.
7. Loosen the lock nuts.
8. Adjust the cable wire length.
9. Tighten the lock nuts securely.
10. Install the mud guard.
11. Install the left rear tire.




*(1) Parking brake lever*




*(A) Mud guard*
*(B) Push rivet*

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