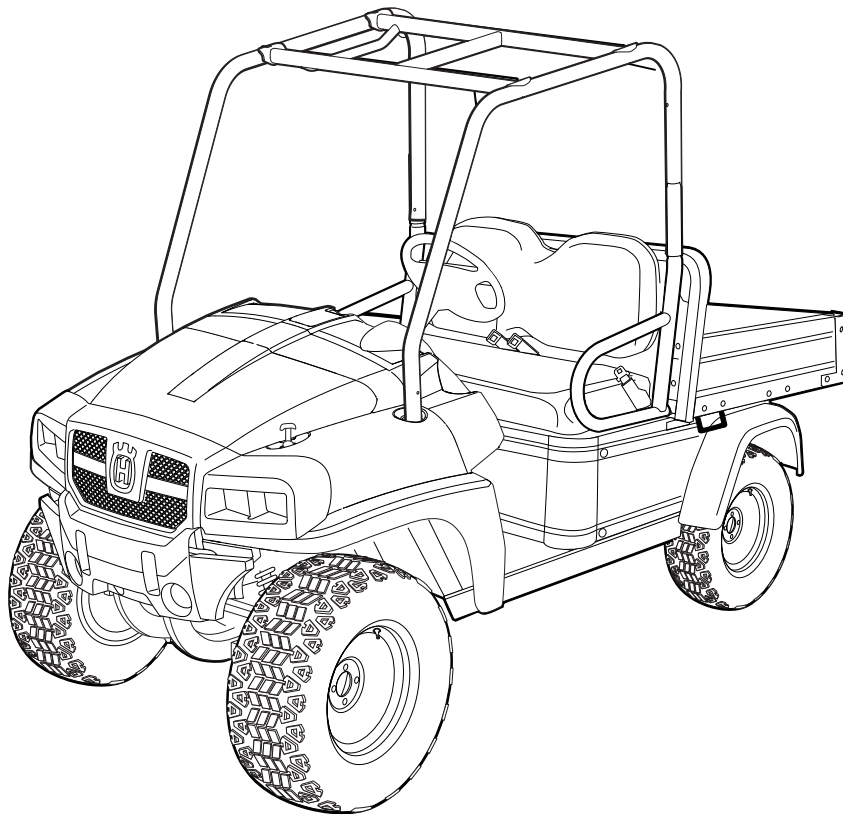




## **2008 HUV 4421 Owner's Manual**

**4421-G/GXP/GXL Gasoline and  
4421-D/DXP/DXL Diesel  
Utility Vehicles**





## NOTICE

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Warranty information appears at the end of this manual. No other warranties, express or implied, are contained herein. Your authorized representative checked the vehicle before it was delivered to you and will provide you a copy of the completed vehicle warranty registration form.

Husqvarna is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

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The information contained in this document is subject to change without notice.

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These vehicles do not conform to Federal Motor Vehicle Safety Standards for automobiles or to FMVSS 500 for low-speed vehicles, and are not equipped for operation on public streets, roads, or highways.



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USA

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## FOREWORD

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Thank you for choosing Husqvarna, a world leader in outdoor products. You have chosen the finest utility vehicle on the market. Please protect your investment and ensure that your Husqvarna vehicle provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your comfort and safety are important to us, so we urge you to read and follow the step-by-step operating instructions and safety procedures in this manual. These instructions must be followed in order to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

Husqvarna products are backed by a customer support system designed to offer you fast, courteous service. In the event that your Husqvarna vehicle needs repairs or service, we recommend that your local authorized Husqvarna representative perform them. For the name and address of the Husqvarna representative nearest you, logon to our web site at [www.usa.husqvarna.com](http://www.usa.husqvarna.com). If you would prefer to write to us, direct your letter to: Husqvarna, Attention: Marketing Services, 7349 Statesville Rd., Charlotte, NC 28269 USA. Your local authorized Husqvarna representative can also provide technical advice, parts, and service manuals.

We hope you will consider this owner's manual a permanent part of your Husqvarna vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains. Translated owner's manuals can be downloaded from the Husqvarna web site at [www.usa.husqvarna.com](http://www.usa.husqvarna.com).

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## **SAFETY DECAL AND FEATURE IDENTIFICATION**

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The following pages contain safety decal and feature identification information. For detailed information on specific features, read the appropriate section in this manual.

# ALL HUV 4421 TWO PASSENGER MODELS

**⚠ WARNING**

**DIESEL FUEL EXPLOSION / FIRE.**

- Can cause severe injury or death.
- No smoking, sparks, or open flame.
- Stop engine, allow to cool before refueling.

CCI 102459201

**⚠ WARNING**

**GASOLINE EXPLOSION / FIRE.**

- Can cause severe injury or death.
- No smoking, sparks, or open flame.
- Stop engine, allow to cool before refueling.
- Turn fuel valve (—) on during operation, (—) off during storage or transport.

CCI 101547601

**⚠ WARNING**

**CAN CAUSE SEVERE INJURY**

**HOT manifold**

**KEEP CLEAR**

CCI 102459001

**⚠ WARNING**

**WINCH CABLE FRACTURE COULD RESULT IN SERIOUS INJURY OR DEATH.**

- Do not use winch while persons are seated on the vehicle.
- Use remote operation switch for winch control.
- Stand to the side and away from the vehicle to operate winch.
- Read winch operator manual before operating winch.

102231601

**⚠ WARNING**

**CAN CAUSE SEVERE BURNS**

**Hot Surface**

CCI 102458901

**⚠ WARNING**

**Rotating parts. KEEP CLEAR.**

CCI 102459501

**⚠ WARNING**

**Negative frame ground. Can cause severe injury. Do not contact positive (+) battery post or cable to frame. Disconnect negative (–) battery cable first.**

CCI 102459101

**OPERATING INSTRUCTIONS**

• Read owner's manual and vehicle safety warnings. Study and understand controls.

**TO START ENGINE**

- Place shift lever in NEUTRAL (N) and press brake pedal.
- Turn key to START and hold until engine starts.

**Diesel Vehicles Only:**

- If required, turn key to PREHEAT and hold for 10-15 seconds.

**TO OPERATE VEHICLE**

- Ensure wheels are turned in desired direction and path is clear.
- With vehicle stopped and engine at idle, select vehicle direction.

↑ Forward    N Neutral    ↓ Reverse (Buzzer will sound)

- Release park brake and slowly press accelerator pedal to increase speed.
- All-wheel drive will automatically drive appropriate wheel(s).

**TO STOP VEHICLE**

- Release accelerator pedal and push brake pedal.

**BEFORE LEAVING VEHICLE**

- Turn key to OFF and remove key.
- Place shift lever in NEUTRAL (N).
- Firmly set park brake.

CCI 102884301

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1	101547601	Decal, Gasoline Fuel Warning (at fuel fill or on frame, near fuel tank)	6	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)
2	102231601	Decal, Winch Safety Warning (on vehicle body, below seat)	7	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)
3	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	8	102884301	Decal, Operating Instructions (on instrument panel)
4	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	9		Directional Arrow
5	102459101	Decal, Ground Warning (on vehicle frame, near battery)			





## ALL HUV 4421 FOUR PASSENGER MODELS

**WARNING**  
DIESEL FUEL EXPLOSION / FIRE.  
• Can cause severe injury or death.  
• No smoking, sparks, or open flame.  
• Stop engine, allow to cool before refueling.  
CCI 102459201

**WARNING**  
Rotating Parts  
CCI 102224001

**WARNING**  
GASOLINE EXPLOSION / FIRE.  
• Can cause severe injury or death.  
• No smoking, sparks, or open flame.  
• Stop engine, allow to cool before refueling.  
• Turn fuel valve (—) on during operation.  
• (—) off during storage or transport.  
CCI 101547601

**WARNING**  
CAN CAUSE SEVERE INJURY  
Rotating parts. KEEP CLEAR.  
CCI 102460201

**WARNING**  
WINCH CABLE FRACTURE COULD RESULT  
IN SERIOUS INJURY OR DEATH.  
• Do not use winch while persons are seated on the vehicle.  
• Use remote operator switch for winch control.  
• Stand to the side and away from the vehicle to operate winch.  
• Read winch operator manual before operating winch.  
102231601

**WARNING**  
CAN CAUSE SEVERE BURNS  
Hot Surface  
CCI 102458901

**WARNING**  
Negative frame ground. Can cause severe injury.  
Do not contact positive (+) battery post or cable  
to frame. Disconnect negative (–) battery cable first.  
CCI 102459101

**WARNING**  
CAN CAUSE SEVERE INJURY  
Rotating parts. KEEP CLEAR.  
CCI 102459501

**WARNING**  
CAN CAUSE SEVERE INJURY  
Hot manifold and muffler. KEEP CLEAR.  
CCI 102459501

**365**

1	101547601	Decal, Gasoline Fuel Warning (at fuel fill or on frame, near fuel tank)	6	102459101	Decal, Ground Warning (on vehicle frame, near battery)
2	102224001	Decal, Rotating Parts Warning (on frame)	7	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)
3	102231601	Decal, Winch Safety Warning (on vehicle body, below seat)	8	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)
4	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	9	102460201	Decal, Rotating Parts Warning (on vehicle body, under seat)
5	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	10		Directional Arrow

# ALL HUV 4421 FOUR PASSENGER MODELS

**OPERATING INSTRUCTIONS**

• Read owner's manual and vehicle safety warnings. Study and understand controls.

**TO START ENGINE**

- Place shift lever in NEUTRAL (N) and press brake pedal.
- Turn key to START and hold until engine starts.

**TO OPERATE VEHICLE**

- Ensure wheels are turned in desired direction and path is clear.
- With vehicle stopped and engine at idle, select vehicle direction.
- Forward (F) Neutral (N) Reverse (R) (Buzzer will sound)
- Release park brake and slowly press accelerator pedal to increase speed.
- All-wheel drive will automatically drive appropriate wheel(s).

**TO STOP VEHICLE**

- Release accelerator pedal and push brake pedal.

**BEFORE LEAVING VEHICLE**

- Turn key to OFF and remove key.
- Place shift lever in NEUTRAL (N).
- Firmly set park brake.

CCI 102884301

**WARNING**

**ROLLOVER OR FALLING OFF MAY CAUSE DEATH**

- Read owner's manual and operating instructions.
- Fasten seat belts and remain seated while moving.
- Children requiring a child safety seat must not ride on vehicle.
- Comply with state and local laws pertaining to child safety.
- Drive slowly in turns and straight up and down slopes.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per bench seat maximum.
- One (1) person per bucket seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Do not operate while under the influence of alcohol or drugs.
- Never attempt jumps and avoid extreme braking in reverse.

CCI 102884401

**WARNING**

**UNDER 16**

**YOUNG DRIVERS INCREASE CHANCE OF DEATH**

- Young drivers may not be able to control vehicle.
- Be drivers younger than 16 years old.
- Do not leave children unattended on vehicle.

CCI 102961201

**WARNING**

**FALLING OFF COULD RESULT IN SEVERE INJURY OR DEATH**

- Fasten seat belt and remain seated while moving.
- Keep entire body inside vehicle at all times.
- Two (2) persons per bench seat maximum.
- One (1) person per bucket seat maximum.
- Do not leave children unattended on vehicle at any time.
- Never stand in front of or behind vehicle.

CCI 101609401

**WARNING**

**CRUSH AREA**

**STAY CLEAR**

CCI 101609401

**WARNING**

**Rotating Parts**

CCI 102224001

**NOTICE**

**MAXIMUM TONGUE WEIGHT - 150 lbs.**

CCI 1011553

**WARNING**

**Crush area. Can cause severe injury. Stay clear when closing bed.**

CCI 102459301

**WARNING**

**VEHICLE LOADING**

**RIDING IN CARGO BED CAN CAUSE SEVERE INJURY OR DEATH.**

- Do not ride in cargo bed.

• Read owner's manual and warnings on dash.

- Maximum gross vehicle weight: 3350 lb. (1520 kg)
- Maximum cargo load: 800 lb. (363 kg)
- Includes cargo bed load and gross trailer weight.
- Maximum cargo load is reduced by the weight of optional equipment.
- Maximum trailer hitch tongue weight: 150 lb. force (667 N).

**PREVENT VEHICLE ROLL-OVER.**

- Place cargo forward in the cargo bed and distribute evenly side to side. Secure load.
- On uneven or steep terrain reduce speed and load. Avoid stopping on or backing down steep hills.
- Avoid top-heavy loads. See owner's manual.

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## PRACTICE SAFETY

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Figure 1 Practice Safety

Safety signs like you see above may at first seem shocking, but their impact is mild compared with the reality of severe personal injury.

Your safety and satisfaction are of the utmost importance to us. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING, and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle.

Take time to understand the language of safety. It is a language that can save your life.

## PROPOSITION 65 – STATE OF CALIFORNIA

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### **WARNING**

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- This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm.

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## SAFETY DETAILS

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### **WARNING**

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- This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

If any of the operation or warning decals on the vehicle become damaged, have been removed, or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your dealer.

### **DANGER**

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- A DANGER indicates an immediate hazard that will result in severe personal injury or death.

### **WARNING**

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- A WARNING indicates an immediate hazard that could result in severe personal injury or death.

### **CAUTION**

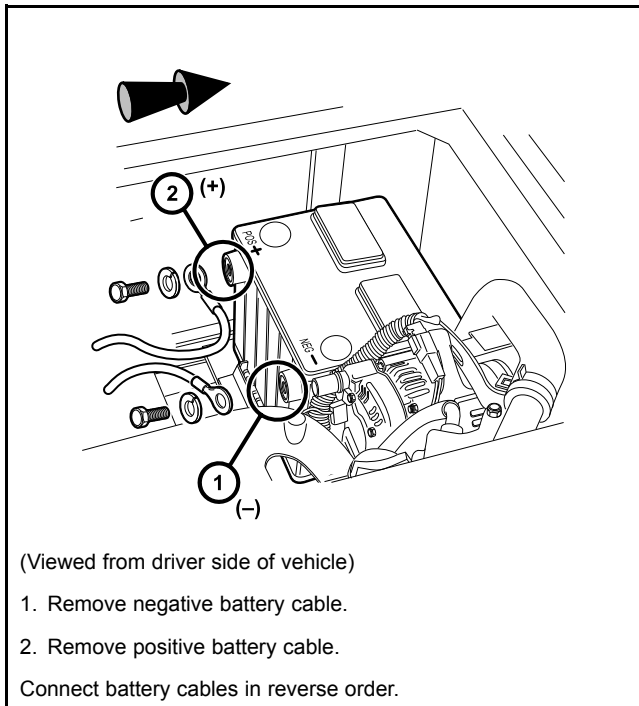
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- A CAUTION with the safety alert symbol indicates a hazard or unsafe practice that could result in minor personal injury.

### **CAUTION**

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- A CAUTION without the safety alert symbol indicates a potentially hazardous situation that could result in property damage.



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**Figure 2 Battery Cable Removal**

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## GENERAL WARNINGS

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The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. **See Safety Decal and Feature Identification on page 5.** Other specific safety statements appear throughout this manual and on the vehicle.

### **⚠ DANGER**

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Gasoline/Diesel – Flammable! Explosive! Do not smoke. Keep sparks and flames away from the vehicle and service area. Service only in a well-ventilated area.**
- **Do not operate engine in an enclosed area without proper ventilation. The engine produces carbon monoxide, which is an odorless, deadly poison.**
- **This vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving this vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.**

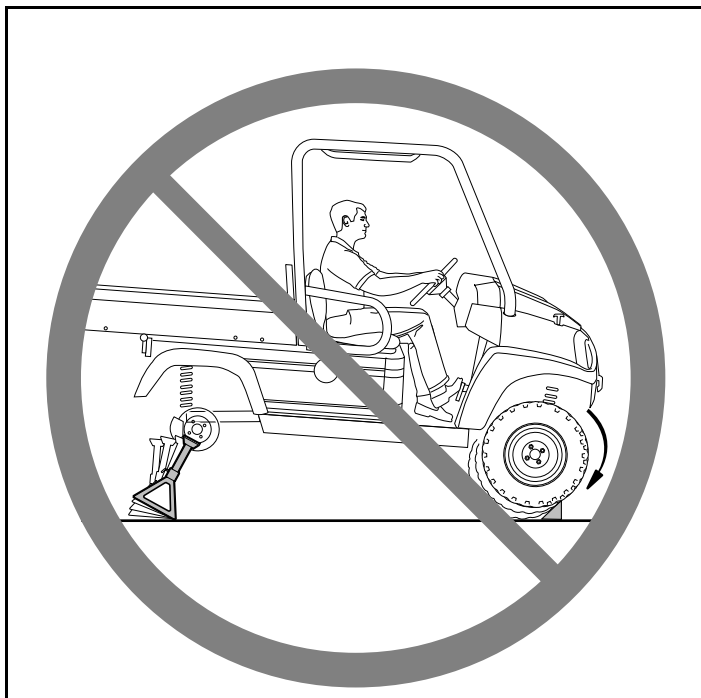
### **⚠ WARNING**

- **Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle.**

**WARNING CONTINUED ON NEXT PAGE**

## **WARNING**

- Do not leave children unattended on vehicle.
- Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.
- The driver and passenger must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking, collision, or roll-over.
- No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a safety belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.
- Prior to leaving the vehicle unattended or servicing the vehicle, set the park brake, place the Forward/Reverse handle in the NEUTRAL position, turn the key switch to the OFF position, and remove the key. Chock the wheels when servicing the vehicle.
- Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.
- Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.
- Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read.
- For vehicles with cargo beds, remove all cargo before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.
- Only trained technicians should service or repair the vehicle. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.
- To avoid unintentionally starting the vehicle:
  - Disconnect battery cables, negative (–) cable first (Figure 2).
  - Gasoline vehicles only: Disconnect the spark plug wires from the spark plugs.
  - Frame ground – Do not allow tools or other metal objects to contact frame when disconnecting battery cables or other electrical wiring. Do not allow a positive wire to touch the vehicle frame, engine, or any other metal component.
- Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.
- Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle.
- Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.
- When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction.



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**Figure 3 All-wheel Drive Warning**

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## GENERAL INFORMATION

This manual includes operating procedures, maintenance, and regular servicing information for all gasoline and diesel HUV 4421-G and HUV 4421-D vehicles. All operating procedures, maintenance, and regular servicing are identical unless otherwise noted.

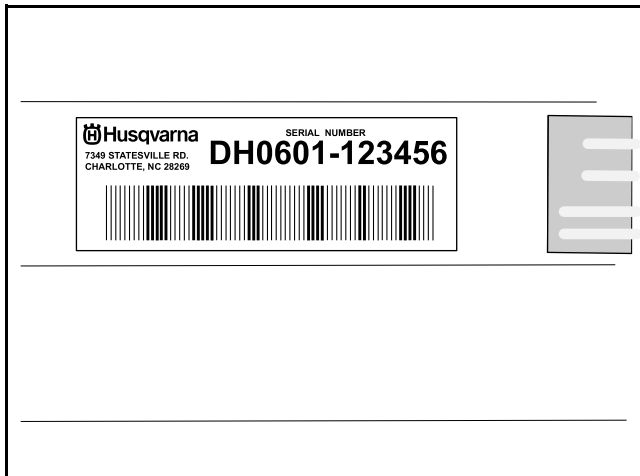
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## MODEL IDENTIFICATION

The serial number of each vehicle is printed on a bar code decal mounted on the frame above the brake pedal (Example: RC0601-123456) (**Figure 4**). There is also a second serial number decal mounted on the rear body frame behind the fuel tank. The fuel tank must be removed to view this decal. **See following NOTE.**

**NOTE:** Have the vehicle serial number available when ordering parts or making inquiries.





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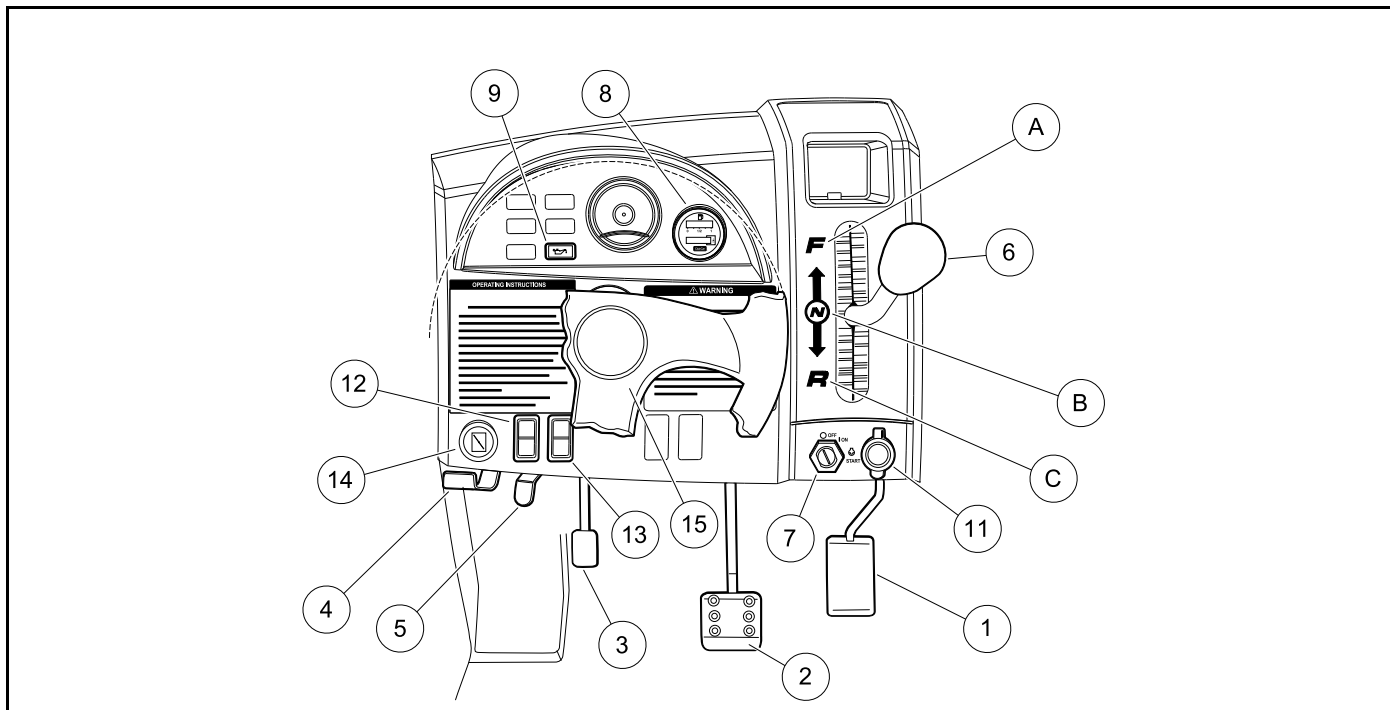
Figure 4 Serial Number

## CONTROLS AND INDICATORS

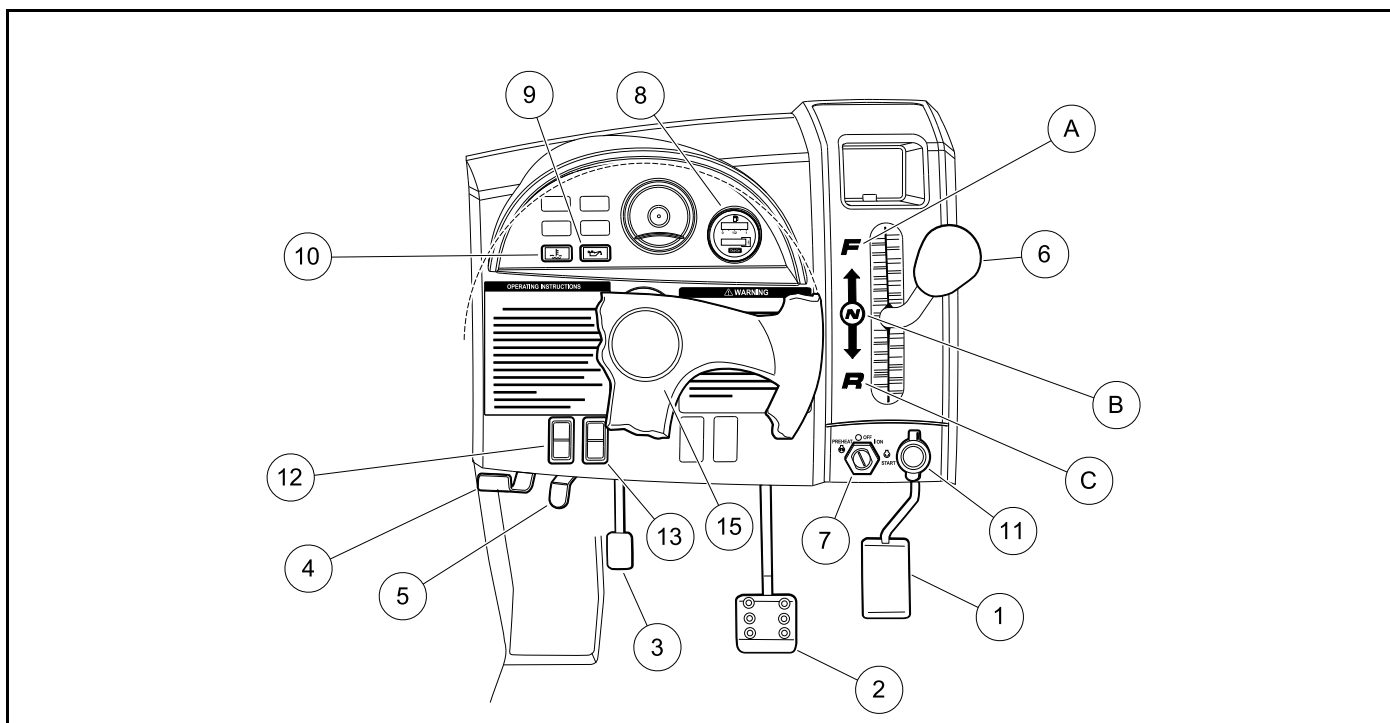
See General Warnings on page 12.

### **⚠ WARNING**

- Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.
- Do not tamper with the high idle speed setting on the diesel vehicle. Doing so will void the warranty, as well as damage the engine and other components, and could result in property damage, personal injury, or death due to unsafe speeds.
- Do not shift the Forward/Reverse handle while the vehicle is in motion.
- Engine must be at idle before shifting the Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.
- To avoid unintentionally starting or rolling the vehicle, set the park brake, place the Forward/Reverse handle in the NEUTRAL position, turn the key switch to the OFF position, and remove the key when leaving the vehicle.



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Figure 5 Instrument Panel – Gasoline Vehicles



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Figure 6 Instrument Panel – Diesel Vehicles

## KEY SWITCH – GASOLINE VEHICLES

The key switch (7) is mounted on the instrument panel to the right of the steering column (**Figure 5**). It has three positions: OFF, ON, and START.

To start the vehicle, place the Forward/Reverse handle in the NEUTRAL position and turn the key to the START position, and hold it there until the engine starts. Activate the choke (14) as necessary. If the engine does not start after 10-15 seconds, release the key and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral. The engine will continue to idle until the key is turned to the OFF position. **See following WARNING, CAUTION, and NOTE.**

### **WARNING**

- **Moving parts! Keep clear of the engine compartment while the engine is running.**

### **CAUTION**

- **Do not shift the Forward/Reverse handle while the accelerator pedal is pressed. Shift the handle only when the vehicle is at a complete stop and the engine is at idle. Failure to heed this caution could result in damage to the transmission.**

**NOTE:** The key can be removed only when the key switch is in the OFF position.

## KEY SWITCH – DIESEL VEHICLES

The key switch (7) is mounted on the instrument panel to the right of the steering column (**Figure 6**). It has four positions: PREHEAT, OFF, ON, and START.

Use the PREHEAT feature if the temperature falls below 23 °F (–5 °C). Do not hold the key in the PREHEAT position longer than 20 seconds. To preheat the glow plugs in cold weather, turn the key to the PREHEAT position, and hold it there for 10-15 seconds. Then turn the key to the START position, and hold it there until the engine starts. If the engine does not start after 10-15 seconds, turn the key to the OFF position and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral. The engine will continue to idle until the key is turned to the OFF position. **See previous WARNING, CAUTION, and NOTE.**

## FORWARD/REVERSE CONTROL

The Forward/Reverse handle (6) is located on the right side of the instrument panel (**Figure 5 and Figure 6**). The handle has three distinct positions: FORWARD (A), NEUTRAL (B), and REVERSE (C). Push the handle up to operate the vehicle in the forward direction, or pull the handle down to operate the vehicle in reverse. The engine can be started only when the handle is in the NEUTRAL (middle) position. The engine must be at idle before shifting the Forward/Reverse handle. **See WARNING and CAUTION on page 15.**

This vehicle operates at a reduced speed in reverse. If equipped with a reverse buzzer, the reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.

## ACCELERATOR PEDAL

The accelerator pedal (1) is the pedal farthest to the right (**Figure 5 and Figure 6**).

With the engine running and the Forward/Reverse handle in the FORWARD or REVERSE position, vehicle speed will increase as the accelerator pedal is pressed. When the accelerator pedal is released, it will return to the original position and the engine will idle. **See WARNING and CAUTION on page 15.**

## BRAKE PEDAL

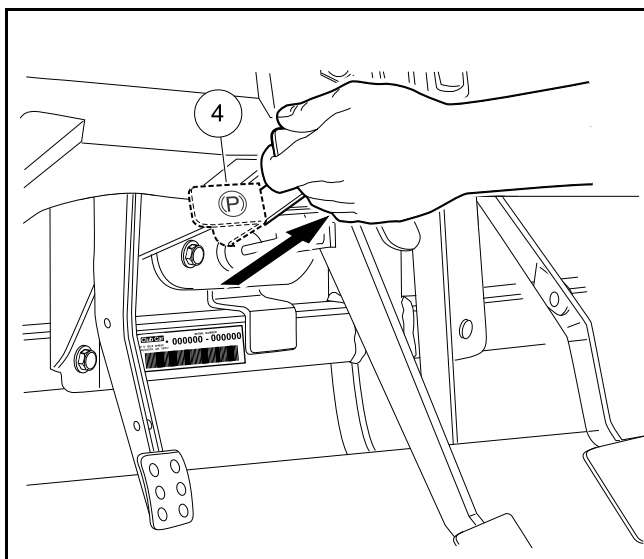
The brake pedal (2) is located to the immediate left of the accelerator pedal (**Figure 5 and Figure 6**). To slow or stop the vehicle, press the brake pedal.

## PARK BRAKE

The park brake pedal (3) is located to the left of the brake pedal (**Figure 5 and Figure 6**). To engage the park brake, first apply pressure to the brake pedal, then firmly press the park brake pedal until it latches into place. To disengage the park brake, pull the park brake release handle (4) (**Figure 7**). **See following WARNING.**

### **⚠ WARNING**

- The park brake has multiple locking positions and should be firmly locked to prevent the vehicle from rolling.



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**Figure 7 Park Brake Release**

## STEERING ADJUSTMENT LOCK

The steering wheel position is adjustable. To adjust the steering wheel position, press down on the steering adjustment lock lever (5), then move the steering wheel to the desired position (**Figure 5 and Figure 6**). While holding the steering wheel in the desired position, pull up on the steering adjustment lock lever to firmly lock the steering column in position. **See following WARNING.**

### **⚠ WARNING**

- Ensure that the steering wheel lock is fully engaged before operating the vehicle.

## 12-VOLT ACCESSORY OUTLET

The 12-volt accessory outlet (11) is located to the right of the key switch (**Figure 5 and Figure 6**). It provides a constant 12VDC with the key switch in the ON or OFF position. **See following NOTE.**

**NOTE:** *Extended use of this accessory outlet can cause the battery to become heavily discharged.*

## LOW OIL WARNING LIGHT

The low oil warning light (9) is located on the instrument panel just to the left of the steering column (**Figure 5 and Figure 6**). If the warning light lights up, oil should be checked and added to the engine as necessary before vehicle use continues. The vehicle should never be driven when the low oil warning light remains lit. If the warning light alternately lights and darkens, the vehicle may be driven, but oil should be added at the first opportunity. If the oil level is correct and the warning light remains lit, have a trained technician check the vehicle. **See following CAUTION.**

### **CAUTION**

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- Failure to add oil immediately when the low oil warning light stays on may result in permanent engine damage.

## FUEL GAUGE/HOUR METER

The fuel gauge and hour meter (8) are housed together on the right side of the instrument panel (**Figure 5 and Figure 6**). The fuel gauge operates when the key switch is in the ON position and allows the operator to monitor the fuel level in the vehicle. The hour meter operates only when the engine is running, and should be used by the trained technician to track vehicle usage and determine when periodic service procedures are required. **See Periodic Service Schedule on page 33.**

## HEADLIGHT CONTROL

The headlight control (12) is located on the left side of the instrument panel (**Figure 5 and Figure 6**). Press the headlight rocker switch to turn the headlights on or off. **See following NOTE.**

**NOTE:** *Using the headlights for extended periods while the engine is either off or idling will discharge the battery.*

## ELECTRIC BED LIFT

### **Vehicles with Electric Bed Lift Option**

The electric bed lift switch (13) is located on the instrument panel to the left of the key switch (**Figure 5 and Figure 6**). **See following NOTE.**

**NOTE:** *Remove cargo before raising the bed.*

To lift the bed, push up and hold the rocker switch in the upper position. Release the switch to stop the lifting operation. To close the bed, press down and hold the switch in the lower position. The bed lift will make a loud clicking sound to signal that the bed is in the rest position.

## HIGH-TEMPERATURE WARNING LIGHT (DIESEL VEHICLES ONLY)

The high-temperature warning light (10) is located on the instrument panel to the left of the steering column, next to the low oil warning light (9) (**Figure 6**). The diesel engine is liquid-cooled; if the engine coolant has exceeded its

normal safe operating temperature, the warning light will illuminate. If the warning light lights up, stop the vehicle and allow it to idle for approximately five minutes before stopping the engine. Contact the dealer/distributor or a trained technician. **See following WARNING.**

### **⚠ WARNING**

- **Allow the engine to cool before servicing the engine coolant system. Engine coolant can cause severe burns.**

## **ROLL-OVER PROTECTIVE STRUCTURE AND SEAT BELTS**

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HUV 4421 two passenger and four passenger vehicles are equipped with a Roll-Over Protective Structure (ROPS) and seat belts for each occupant. **See following WARNING.**

### **⚠ WARNING**

- **The ROPS must be properly installed before operating the vehicle. Husqvarna strongly urges that the vehicle's occupants be properly restrained at all times with the seat belts provided.**

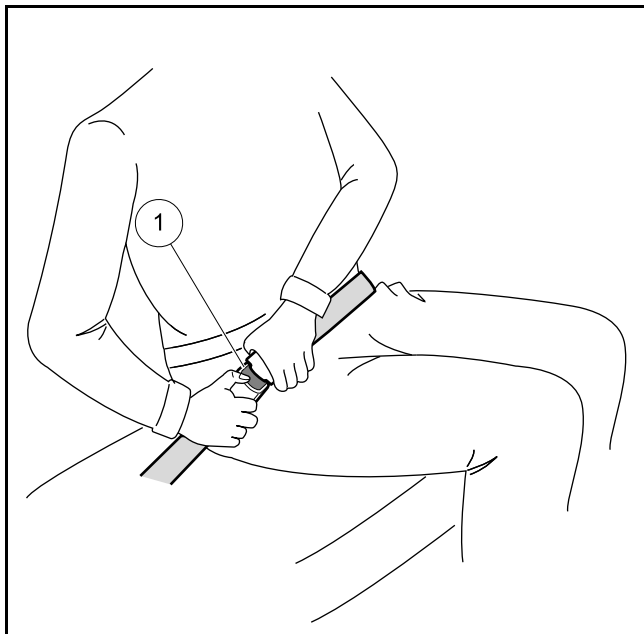
Pregnant woman: Consult your doctor for specific recommendations. The safety belt should be worn securely and as low as possible over the hips and not on the waist.

Injured person: Depending on the injury, first check with your doctor for specific recommendations.

To secure the safety belt, sit up straight and well back in the seat. Pull the safety belt out of the retractor and insert the tab into the buckle. A click will be heard when the tab locks into the buckle. Position the lap belt as low as possible on the hips – not on the waist.

The retractor will lock the belt during a sudden stop. It also may lock if the occupant leans forward too quickly. A slow, easy motion will allow the belt to extend, and the occupant can move freely. If the safety belt cannot be pulled out of the retractor, firmly pull the belt and release it. It should then pull smoothly out of the retractor.

To release the safety belt, press the buckle release button (1) and allow the belt to retract (**Figure 8**). If the belt does not retract smoothly, pull it out and check for kinks or twists. Then make sure it remains free of twists as it retracts.



## **⚠ WARNING**

- Do not operate the vehicle with the ROPS removed. Doing so could result in property damage, personal injury, or death.
- Do not remove or modify any component of the ROPS structure. Doing so will result in voiding the ROPS certification and could weaken the ROPS, resulting in serious injury or death.
- Do not operate the vehicle if the ROPS is damaged. If the ROPS is damaged, replace the structure. Do not attempt repair.
- The driver and passenger must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking, collision, or roll-over.
- In the event of a roll-over, do not attempt to jump or otherwise exit the vehicle. Remain seated with safety belt fastened and with arms and legs inside the vehicle.
- After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.
- Loose fitting seat belts could increase the chance of injury due to sliding under the belt if sudden braking should occur. Keep the safety belt snug and positioned as low on the hip bone as possible.
- Use a single safety belt for one person at a time. Do not use a single safety belt for two or more people – this includes children.
- No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a safety belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.
- This vehicle is not designed to meet child seat compatibility requirements. Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.

## **⚠ CAUTION**

- Be careful not to damage the safety belt webbing or hardware.
- Inspect the safety belt system periodically. Check for cuts, fraying, and loose parts. Damaged parts should be replaced immediately. Do not disassemble or modify the system.
- Keep seat belts clean and dry. If cleaning is necessary, use a mild soap and lukewarm water solution. Do not use bleach, dye or abrasive cleaners as they may severely weaken the seat belts.
- Do not insert coins, clip, etc. in the buckle as this may prevent the tab from locking into the buckle properly.
- If the safety belt does not function normally, contact your dealer/distributor or trained technician immediately. Do not occupy the seat until the safety belt is repaired.

## **SEAT LATCH AND ADJUSTMENT**

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The vehicle seat(s) are hinged to allow easy access to the engine compartment. To raise the seat bottom, grasp the rear side of the seat bottom, and pull firmly in a forward/upward direction. **See following WARNING.**

## **⚠ WARNING**

- Make sure seat hinges and latches are securely engaged before operating the vehicle.

### **Vehicles with bucket seat option:**

The driver-side bucket seat is adjustable and can be moved forward or backward to accommodate the driver. To adjust this seat, push the lever located under the driver seat to the left (towards outside of the vehicle). Position the seat, and return the lever to its original position. **See following WARNING.**

## **WARNING**

- **Do not adjust the driver-side seat while the vehicle is in motion.**

To adjust the passenger-side seat

1. Remove the seat from the vehicle.
2. Remove the four bolts and washers from the bottom of the seat mounting plate.
3. Align the mounting plate holes with holes in the seat to achieve the desired seat position.
4. Install washers and bolts, and tighten to 96 in-lb (10.8 N·m).
5. Install the seat. **See preceding WARNING “Make sure seat hinges and latch...”.**

## **PRE-OPERATION AND DAILY SAFETY CHECKLIST**

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Each vehicle has been thoroughly inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with the controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.

Use the following list as a guide to inspect the vehicle. This list should be used daily and in conjunction with the Performance Inspection on page 23 and the Periodic Service Schedule on page 33 to ensure that the vehicle is in proper working condition. Any problems should be corrected by a dealer/distributor or a trained technician.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight. Check hose clamps for tight fit.
- **Safety and information decals:** Check to ensure that all safety and information decals are in place and can be read easily. **See Safety Decal and Feature Identification on page 5.**
- **ROPS:** Check to ensure the ROPS is not damaged and all hardware is secure. **See Roll-Over Protective Structure and Seat Belts on page 20.**
- **Seat belts:** Visually inspect for cuts, fraying, and loose parts. **See Roll-Over Protective Structure and Seat Belts on page 20.**
- **Tires:** Check for proper tire pressure. Visually inspect tires for wear, damage, and proper inflation on a daily basis. **See Vehicle Specifications on page 56.**
- **Battery:** Check electrolyte to ensure it is at the proper level (**Figure 37**). Check battery posts. Wires should be tight and free of corrosion, and battery should be fully charged.
- **Engine:** Check for proper engine oil and coolant levels and leaks. **See Engine Oil on page 39.** Check air filter and replace if necessary.
- **Fuel:** Check fuel level. **See Fueling Instructions on page 48.** Check fuel tank, lines, fuel cap, pump, and fuel filters for fuel leakage. Drain water from the fuel filter (diesel vehicle). **See Draining Water from Fuel Filter on page 49.**
- **Exhaust system:** Check for leaks.
- **Hydraulic brakes:** Check fluid level. Fill with DOT 5 brake fluid only. **See Brake Fluid Reservoir on page 38.** Wear in the brakes before initial vehicle operation. On a flat, open surface, accelerate the vehicle to moderate speed, then apply the brakes under modest, steady pressure. Repeat this procedure five times. **See following NOTE.**

**NOTE:** Perform the wear-in procedure when the vehicle has been in operation for less than a week, or when the brake pads or rotor have been replaced.

- **Performance Inspection:** Inspect as instructed. **See Performance Inspection on page 23.**



## PERFORMANCE INSPECTION

After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive. Use the following list, in addition to the *Pre-Operation and Daily Safety Checklist*, as a guide to inspect the vehicle daily for proper operation. Any problems should be corrected by a dealer/distributor or a trained technician.

- **Forward/Reverse shifter:** Check for proper operation. **See Controls and Indicators on page 15.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully pressed under moderate pressure, the vehicle should come to a smooth, straight stop. If the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. When the brake pedal is fully pressed under heavy pressure, the pedal should feel firm and the distance between the back of the pedal and the floorboard should be a minimum of 1.25 inches (3.2 cm). Brake adjustment must be maintained so the brake pedal cannot be pressed to the floorboard under any circumstance.
- **Park brake:** When latched, the park brake should lock the wheels and hold the vehicle stationary on an incline of 20% or less.
- **Reverse buzzer:** If equipped with a reverse buzzer, the reverse buzzer should sound as a warning when the Forward/Reverse handle is in the REVERSE position.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel. Be sure the steering wheel adjustment lever is securely locked into position.
- **Accelerator:** After starting the engine with the key switch and placing the Forward/Reverse handle in the FORWARD position, the vehicle should accelerate smoothly to full speed as the accelerator pedal is pressed. When the pedal is released it should return to the original position, and the engine should idle. This vehicle operates at a reduced speed in reverse.
- **Governor:** Check maximum vehicle speed. The vehicle should operate in forward at a maximum speed of 25 mph (40 km/h) on a level surface.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle's ride and performance. Have a dealer or a trained technician investigate anything unusual.

## DRIVING INSTRUCTIONS

### WARNING

- Only licensed drivers should be allowed to drive the vehicle.
- Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.
- No one under the age of 16 years should be allowed to drive the vehicle.
- No more than one person per bucket seat at one time. No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a safety belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.
- Do not allow riders in the cargo bed.
- For night use, the vehicle must be equipped with headlights, taillights, and reflectors.
- The vehicle is not specially equipped for handicapped persons:
  - Be sure all passengers are capable of securing themselves in a moving vehicle before allowing them to ride in one.
  - Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.

WARNING CONTINUED ON NEXT PAGE

## **WARNING**

- Stop the vehicle before shifting the Forward/Reverse handle. Engine must be at idle before shifting the Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.
- To help avoid being struck, do not stand in front of or behind the vehicle.
- Do not leave children unattended on vehicle.
- Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.
- Operate the vehicle from the driver seat only.
- To help prevent falls from the vehicle, remain seated with safety belt fastened and hold on to hand holds at all times. Driver should keep both hands on the steering wheel when the vehicle is in motion.
- To help prevent the possibility of serious injury, keep entire body inside the vehicle.
- To help prevent overturning the vehicle, drive slowly in turns.
- To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% incline.
- Avoid stopping a loaded vehicle on a hill. If a loaded vehicle must be stopped on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could result in overturning the vehicle.
- To help avoid possible injury to inattentive passengers and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.
- To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain.
- Do not use the vehicle on public roads. It is neither designed nor intended for street use and should not be licensed for use on public roads.
- The vehicle should be driven in only specified areas by trained drivers.
- Do not drive while under the influence of alcohol, drugs, or medications.
- Use brakes to reduce speed when coasting downhill.
- Never attempt jumps.
- Keep away from drop-offs, steep slopes, and unstable surfaces.
- Avoid extremely hard braking in reverse.

No one should drive the vehicle without first being instructed in the proper operation and use of vehicle controls. An experienced operator should accompany each first-time driver on a test drive before allowing the driver to operate the vehicle alone.

To ensure safe operation of the vehicle, follow exactly and in order all of the following procedures. Read and understand all instructions before driving the vehicle.

## **STARTING THE VEHICLE**

1. Read safety warnings on the instrument panel and vehicle loading information located in the cargo bed.
2. Be sure load, if any, is secure.
3. Study and understand all controls.
4. Be sure all passengers are seated with their seat belts fastened and are holding on to hand holds. Driver should have both hands on the steering wheel.
5. Make sure wheels are turned in desired direction and nothing is in your path.
6. Make sure the Forward/Reverse handle is in the NEUTRAL position.
7. Press and hold the brake pedal.
8. To start the vehicle

- 8.1. **Gasoline vehicles:** Turn the key to the START position and hold it there until the engine starts. Activate the choke as necessary. If the engine does not start after 10-15 seconds, release the key and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral.
- 8.2. **Diesel vehicles:** To preheat glow plugs in cold weather, turn the key to the PREHEAT position and hold it there for 10-15 seconds. Turn the key to the START position and hold it there until the engine starts. If the engine does not start after 10-15 seconds, turn the key to the OFF position and repeat the procedure. Once the engine starts, release the key and it will return to the ON position. The engine will idle in neutral.
9. Release the park brake.
10. Keep the brake pedal engaged, and select direction of travel by placing the shift handle in the desired position (**Figure 5 or Figure 6**). The engine must be at idle before the shift handle is moved. If equipped with a reverse buzzer, the reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.
11. Release the brake pedal completely, and then slowly press the accelerator pedal. As the accelerator pedal is pressed, the vehicle will begin to move. Vehicle speed will increase as the accelerator is pressed until full speed is reached. All-wheel drive will automatically drive the appropriate wheel(s) as required. **See following WARNING.**

### **WARNING**

- Operator must control vehicle speed when going downhill.
- Never shift the vehicle out of the FORWARD position while going downhill. If you do, you will not be able to shift into the REVERSE position or back into the FORWARD position until stopped.
- Press the brake pedal as necessary and press the accelerator pedal partially when descending a hill. With the accelerator pedal partially pressed, the governor will cause the engine to assist the brakes in controlling downhill speed.

## **ALL-WHEEL DRIVE (AWD) OPERATION**

All HUV 4421 gas and diesel vehicles feature an all-wheel drive (AWD) system. The AWD system automatically directs power to the wheel, or wheels, that have the most traction, providing optimum traction at all times. For example, if all wheels except the rear passenger-side wheel lose traction, then power will be directed to the rear passenger-side wheel. The all-wheel drive vehicle can adapt traction for a wide variety of driving surfaces and conditions. **See following WARNING.**

### **WARNING**

- When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction (**Figure 3**).
- The diameter of all tires on the vehicle must be equal, otherwise the all-wheel drive system will not operate as intended and could result in severe personal injury or death. Never install tires of different diameters on the vehicle.

Under most circumstances the driver will not need to do anything to engage the AWD system; however, the front differential may become locked (rotate at the same speed regardless of the terrain) under certain conditions. If the front differential becomes locked, drive slowly in reverse for at least 10 feet (3 meters), then brake gently. **See following WARNING.**

### **WARNING**

- Reduced steering control can occur if the front differential becomes locked. To help prevent this condition, avoid extremely hard braking in reverse.

## STOPPING THE VEHICLE

To stop the vehicle, release the accelerator pedal and press the brake pedal until the vehicle comes to a complete stop. See following **WARNING** and **CAUTION**.

### **WARNING**

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- Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently pressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to press the brake pedal until the brakes dry out and normal performance returns.

### **CAUTION**

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- When stopped on a hill, use the brake pedal to hold your position. Do not use the accelerator pedal to hold position.

## PARKING AND LEAVING THE VEHICLE

1. After stopping the vehicle, firmly set the park brake. Make sure it is fully engaged. This will prevent the vehicle from rolling.
2. Turn the key switch to the OFF position, remove the key, and place the Forward/Reverse handle in the NEUTRAL position.

## BED LATCH AND PROP ROD

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See General Warnings on page 12.

The bed latch (**Figure 9**) has an automatically engaging prop rod and prop rod track (**Figure 10**) as standard features. To lift the bed, pull the bed latch handle toward the rear of the vehicle and lift the bed. The prop rod will come to rest in one of the notches in the prop rod track. To close the bed, lift the bed so that the prop rod is no longer supported in one of the track notches. Push the prop rod toward the front of the vehicle to free it from the track notch and gently lower the bed. DO NOT drop the bed. See following **DANGER**, **WARNING**, and **NOTE**.

### **DANGER**

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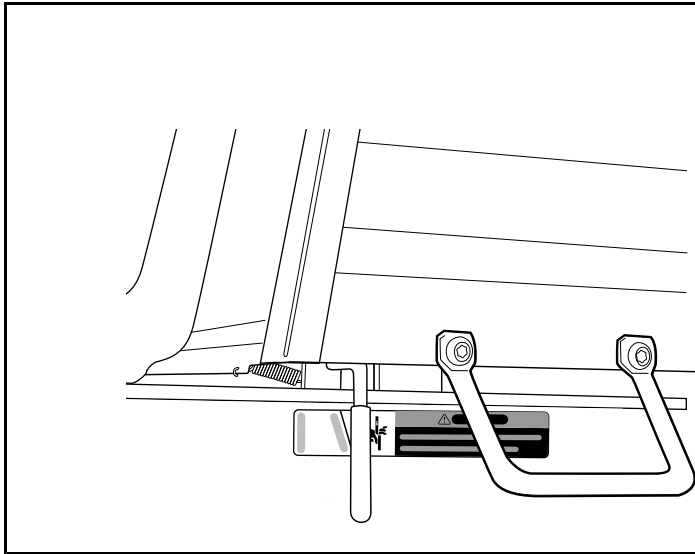
- Use caution when working under bed. Be sure prop rod is secure. Otherwise the bed will fall, resulting in severe personal injury or death.

### **WARNING**

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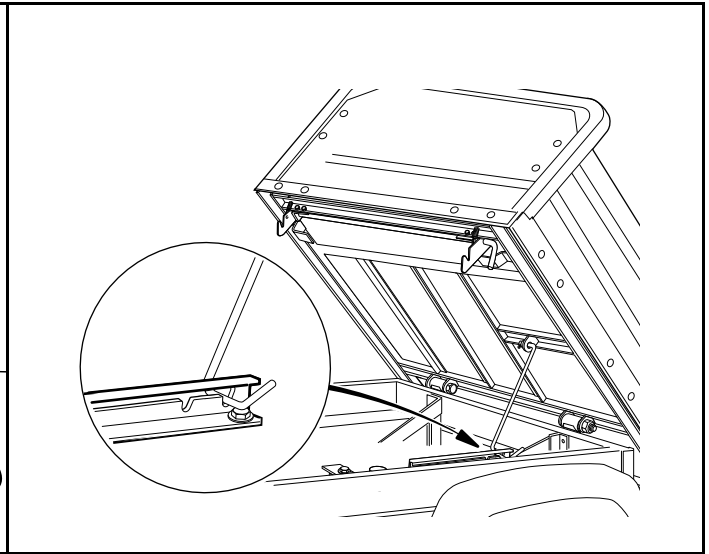
- For vehicles with cargo beds, remove all cargo before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.

**NOTE:** HUV 4421 gas and diesel vehicles are equipped with an automatically engaging prop rod (**Figure 10**), unless equipped with the electric bed lift accessory.



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Figure 9 Bed Latch



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Figure 10 Prop Rod

## LOADING AND UNLOADING CARGO

### **⚠ WARNING**

- Firmly engage park brake before loading vehicle.
- Do not allow riders in the cargo bed.
- Reduce vehicle load and speed when driving up or down slopes or on uneven terrain.
- Do not exceed rated vehicle capacity. Rated capacity is for level surfaces only.
- Overloading can affect vehicle handling or cause component failure, resulting in loss of control of vehicle and possible severe personal injury or death.
- Do not load tailgate. The tailgate should be in the upright position and latched securely while the vehicle is in motion.
- To help avoid shifting vehicle load and possibly overturning the vehicle, avoid sudden starts, sudden stops and abrupt turns. Make sure cargo is well secured.
- Avoid top-heavy loads. The center of gravity of load should never exceed 15 inches (38 cm) above the bottom of the cargo bed.
- The cargo's center of gravity may affect handling, steering, and braking of the vehicle. When the vehicle is loaded, reduce speed and drive slowly in turns.
- Unload cargo bed before raising vehicle with a lift, hoist, or jack.
- Avoid stopping on a hill when loaded. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.
- Reduce speed and avoid sudden stops when backing up. Failure to do so may cause the vehicle to overturn or flip over backwards.
- Maximum cargo load must be reduced by the weight of optional equipment.

Center and secure cargo as far forward as possible in the cargo bed. Do not overload the vehicle. **See Vehicle Load Capacities** on page 28 for vehicle capacities.

## VEHICLE LOAD CAPACITIES

### Maximum Occupant Capacity

The maximum occupant capacity is the maximum allowable weight for occupants (operator and passengers) to operate the vehicle safely.

### Gross Trailer Weight

Gross trailer weight is the combination of the trailer weight and the trailer load weight.

### Maximum Payload Capacity

The maximum payload capacity is the maximum amount of load that the vehicle can haul in the cargo bed and/or tow in a trailer. The combined weight of bed load and gross trailer weight cannot exceed the vehicle's stated maximum payload capacity.

### Vehicle Rated Capacity

The vehicle rated capacity is the maximum amount of weight the vehicle can carry, haul, and tow. This capacity includes weight of occupants, bed load, and gross trailer weight.

### Maximum Gross Vehicle Weight

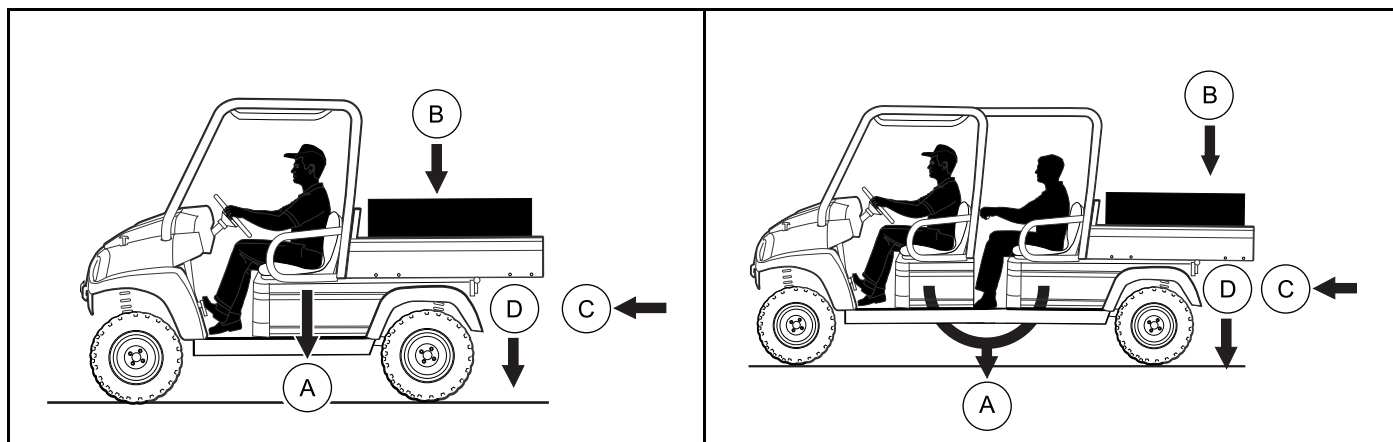
The maximum gross vehicle weight is the combination of the vehicle weight and the maximum vehicle capacity. The stated maximum gross vehicle weight must not be exceeded to maintain safe vehicle operation.

Maximum payload capacity must be reduced accordingly when any option or accessory is installed on the vehicle. **See following NOTE.**

**NOTE:** A standard vehicle with a cab accessory that weighs 235 lb. (107 kg) must reduce its maximum payload capacity by 235 lb. (107 kg).

Refer to Figure 11 and Figure 12 for the following specifications.

	HUV 4421 Two-Passenger Gasoline and Diesel Vehicles	HUV 4421 Two-Passenger Vehicles with High Capacity Option	HUV 4421 Four-Passenger Gasoline and Diesel Vehicles
<b>A: Maximum occupant capacity</b>	400 lb. (181 kg)	400 lb. (181 kg)	800 lb. (363 kg)
<b>B + C: Maximum payload capacity</b>	800 lb. (363 kg)	1050 lb. (476 kg)	800 lb. (363 kg)
<b>D: Trailer tongue weight</b>	150 lb. force (667 N)	150 lb. force (667 N)	150 lb. force (667 N)
<b>A + B + C: Maximum vehicle capacity</b>	1200 lb. (544 kg)	1450 lb. (657.6 kg)	1600 lb. (725.6 kg)
<b>A + B + C + Vehicle Weight: Maximum gross vehicle weight</b>	2750 lb. (1247 kg)	3012 lb. (1366 kg)	3350 lb. (1519.1 kg)



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**Figure 11 Vehicle Load Capacity – Two-Passenger Vehicles**

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**Figure 12 Vehicle Load Capacity – Four-Passenger Vehicles**

## TOWING WITH THE VEHICLE

### **⚠ WARNING**

- Do not tow a vehicle or trailer on public streets or highways.
- Normal vehicle operating speed should be reduced when towing.
- Extreme caution should be used when towing.
- Do not allow riders in the vehicle or trailer being towed.
- Avoid sudden starts, sudden stops, and tight turns when towing.
- Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.

Towing another vehicle or a trailer can have adverse effects on vehicle handling. Be especially cautious when towing other equipment with this vehicle. **See Vehicle Load Capacities on page 28 for vehicle capacity information.**

Parking the vehicle with a trailer on a hill should be avoided. If you must park on a hill, apply the brakes and have someone chock the trailer tires. The brakes should be released to allow the chocks to absorb the trailer load. After the trailer tires have been chocked, engage the park brake.

## TRANSPORTING ON A TRAILER

### **⚠ WARNING**

- Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 13).
- Do not allow riders in the trailer being towed.
- Avoid sudden starts, sudden stops, and tight turns when towing.

WARNING CONTINUED ON NEXT PAGE

## **WARNING**

- Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.
- Reduce normal driving speed when transporting a vehicle on a trailer.
- For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.
- Never tow a vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.
- The vehicle to be transported should be tied securely to the trailer, with the Forward/Reverse handle in the NEUTRAL position, the key switch in the OFF position, and the park brake firmly engaged.
- Because of the added length of the trailer, use caution when making turns.
- Do not transport the vehicle on a trailer with a load in the vehicle cargo bed.
- Remove the vehicle windshield and secure seats before transporting on a trailer.

If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer that has an approved load rating of 2000 lb. (908 kg) per vehicle being transported. **See following NOTE.**

**NOTE:** A two-car trailer should be rated at 2 x 2000 lb. = 4000 lb. (2 x 908 kg = 1816 kg).

## **STORAGE**

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See General Warnings on page 12.

## **DANGER**

- Do not attempt to drain fuel when the engine is hot or while it is running.
- Clean up any spilled fuel before operating the vehicle.
- Store fuel in an approved fuel container only. Store in a well-ventilated area away from sparks, open flames, heaters, or heat sources.
- Keep fuel out of the reach of children.
- Do not siphon fuel from the vehicle.

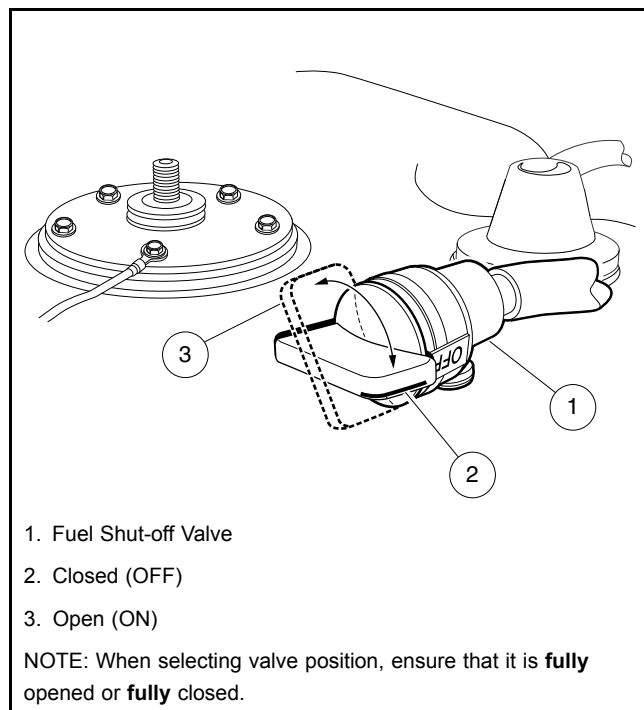
## **WARNING**

- Turn the key switch to the OFF position, remove the key, and leave the Forward/Reverse handle in the NEUTRAL position during storage. This is to prevent unintentionally starting the vehicle or a fire hazard.
- Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 13).
- Do not attempt to charge frozen batteries or batteries with bulged cases. Discard the battery. Frozen batteries can explode.

## **CAUTION**

- Batteries in a low state of charge will freeze at low temperatures.





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**Figure 13 Fuel Shut-off Valve**

## PREPARING THE VEHICLE FOR EXTENDED STORAGE

1. Unload the vehicle so that the tires are supporting only the weight of the vehicle.
2. Store the vehicle in a cool, dry place. This will minimize battery self-discharge. If the battery appears to be weak, have it charged by a trained technician. Use an automotive-type 12-volt battery charger rated at 10 amps or less. Check electrolyte level after charging and add distilled water if necessary. If the battery is dead, see Using A Booster Battery (Jump Starting) on page 52.
3. Make sure the key switch is in the OFF position and the Forward/Reverse handle is in the NEUTRAL position. Chock the wheels.
4. **Gasoline vehicles:** Prepare the fuel tank.
  - 4.1. Fill the tank with fresh fuel.
  - 4.2. Following the manufacturer's directions, add a commercially available fuel stabilizer (such as Sta-Bil®). Run the engine in a well-ventilated area to allow treated fuel to replace untreated fuel in the carburetor.
  - 4.3. Disconnect the fuel vent line from the fuel tank vent nipple (**Figure 33**).
  - 4.4. Plug the fuel tank vent nipple so that it is air tight. Husqvarna recommends using a slip-on vinyl cap.
5. Remove both spark plugs, and pour 1/2 ounce (14.2 mL) of SAE 10 weight oil through each of the two spark plug holes. Rotate the engine crankshaft by hand several times, then install both spark plugs.
6. **Diesel vehicles: If Biodiesel fuel is used, see Biodiesel Fuel (Diesel Vehicles Only) on page 48.** Prepare the fuel tank.
  - 6.1. Fill the fuel tank with fresh fuel.
  - 6.2. Disconnect the fuel vent line from the fuel tank vent nipple (**Figure 34**).
  - 6.3. Plug the fuel tank vent nipple so that it is air tight. Husqvarna recommends using a slip-on vinyl cap.
7. **All vehicles:** Change engine oil. **See Engine Oil and Filter Change on page 40.**

8. Disconnect the battery cables, negative (–) cable first. **See WARNING “To avoid unintentionally starting...” in General Warnings on page 12.**
9. The battery should be clean and free of corrosion. Wash the battery top and terminals with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse the solution off the battery. Do not allow this solution to enter the battery. Be sure the terminals are tight. Let the terminals dry and then coat them with Battery Terminal Protector Spray (P/N 603 00 00-03).
10. Adjust the tires to the recommended tire pressure. **See Vehicle Specifications on page 56.**
11. Perform semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 36.**
12. Thoroughly clean the front body, rear body, seats, cargo bed, engine compartment, and underside of vehicle.
13. Do not engage the park brake. Chock the wheels to prevent the vehicle from rolling.

## RETURNING THE STORED VEHICLE TO SERVICE

1. Make sure the key switch is in the OFF position and the Forward/Reverse handle is in the NEUTRAL position. Chock the wheels.
2. Restore the fuel system to operation (**Figure 33 or Figure 34**).
  - 2.1. Remove the plug from the fuel tank vent.
  - 2.2. Connect the vent tube to the fuel tank vent.
3. Connect the battery cables, positive (+) cable first, and tighten the terminals to 144 in-lb (16 N·m). Coat terminals with Battery Terminal Protector Spray (P/N 603 00 00-03).
4. **Gasoline vehicles only:** Completely open the fuel shut-off valve (**Figure 13**). Ensure the valve is fully open. A partially closed fuel shut-off valve combined with the use of the choke can result in a fouled spark plug and engine failure.
5. Place the Forward/Reverse handle in the NEUTRAL position. Crank the engine until fuel is pumped into the carburetor (gasoline vehicles) and the fuel lines (all vehicles) and the engine starts. Turn the engine off. **See following NOTE.**

**NOTE:** Due to the oil added to the gasoline engine in preparation for storage, the engine may smoke excessively for a short time when it is run for the first time after storage.

6. Perform the Pre-Operation and Daily Safety Checklist on page 22 and the Performance Inspection on page 23.

## MAINTENANCE

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**See General Warnings on page 12.**

To ensure trouble-free vehicle performance, follow an established preventive maintenance program. Regular and consistent maintenance can prevent vehicle downtime and expensive repairs. Use the Pre-Operation and Daily Safety Checklist on page 22, the Performance Inspection on page 23, and the following Periodic Service Schedule and Periodic Lubrication Schedule to keep the vehicle in proper working condition.

Any vehicle not functioning correctly should not be used until it is properly repaired. This will prevent further damage to the vehicle and help prevent injury to occupants resulting from unsafe conditions.

Contact your local dealer/distributor for repairs and semiannual and annual periodic service.

### **WARNING**

- **Only trained technicians should service or repair the vehicle. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.**

**WARNING CONTINUED ON NEXT PAGE**

## **⚠ WARNING**

- If any problems are found during scheduled inspection or service, do not operate vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.
- Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle.
- Turn key switch to the OFF position, remove the key, place the Forward/Reverse handle in the NEUTRAL position and chock the wheels prior to servicing.
- Moving parts: Do not attempt to service vehicle while engine is running.
- Hot! Do not attempt to service hot engine or exhaust system. Failure to heed this warning could result in severe burns.
- For vehicles with cargo beds, remove all cargo before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.
- Do not work on vehicle powertrain or under cargo bed when it is loaded.
- Gasoline vehicles only: Turn fuel shut-off valve to the closed (OFF) position (Figure 13).
- To avoid unintentionally starting the vehicle:
  - Disconnect battery cables, negative (–) cable first (Figure 2).
  - Gasoline vehicles only: Disconnect the spark plug wires from the spark plugs.
- If wires are removed or replaced make sure wiring and wire harness are properly routed and secured. Failure to properly route and secure wiring could result in vehicle malfunction, property damage, personal injury, or death.
- Lift only one end of the vehicle at a time. Use a suitable lifting device (chain hoist or hydraulic floor jack) with 1000 lb. (454 kg) minimum lifting capacity. Do not use lifting device to hold vehicle in raised position. Use approved jack stands of proper weight capacity to support the vehicle and chock the wheels that remain on the floor.
- When servicing the vehicle with part of the vehicle on jack stands, do not operate the engine with the Forward/Reverse handle in either the FORWARD or REVERSE position. The all-wheel drive system will engage any wheel(s), front or rear, with traction (Figure 3).

## **PERIODIC SERVICE SCHEDULE**

See General Warnings on page 12.

## **⚠ WARNING**

- Service, repairs, and adjustments must be made per instructions in the appropriate maintenance and service manual.

**NOTE:** *If the vehicle is constantly subjected to heavy use or severe operating conditions, the preventive maintenance procedures should be performed more often than recommended in the Periodic Service and Lubrication Schedule.*

*Both the Periodic Service Schedule and the Periodic Lubrication Schedule must be followed to keep vehicle in optimum operating condition.*







PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	SERVICE	
Daily service by owner	Pre-Operation and Daily Safety Checklist	See Pre-Operation and Daily Safety Checklist on page 22.
	Performance Inspection	See Performance Inspection on page 23.
Daily service by owner or trained technician	Engine	Check engine oil level; add if necessary. See Engine Oil Level Check on page 39.
		Diesel vehicles: Check engine coolant; add if necessary. See Engine Coolant Level Check on page 46.
	Fuel filters	Diesel vehicles: Drain water from fuel filter. See Draining Water from Fuel Filter on page 49.
	Brakes	Check brake fluid; add if necessary. Check brake pedal for proper operation. See Performance Inspection on page 23.
Monthly service by owner or trained technician	Engine	Check engine circulating air passage; visually inspect unshrouded area around engine exhaust for grass and debris and clean if necessary. Diesel vehicles: Check for grass and debris around the radiator.
	Tires	Check air pressure and adjust if necessary. See Vehicle Specifications on page 56.
	Transmission and differentials	Check lubricant levels. Add if necessary. See Lubrication Level Check for Front Differential, Transmission, and Rear Differential on page 44.
	General vehicle	Wash engine compartment and underside of vehicle. Do not wash engine when hot.
Semiannual service by trained technician only (or every 50 hours of operation, whichever comes first)	Battery	Clean terminals and wash dirt from casing; check electrolyte level. Add distilled water if necessary. See page 50.
	Front wheel alignment and toe-in	Check and adjust if necessary. See Steering and Front Suspension Section in the appropriate maintenance and service manual.
	Electrical wiring and connections	Check for tightness and damage.
	Brake system	Inspect master cylinder, brake lines, and hoses for damage or leakage.
		Check park brake cables for damage; replace if necessary.
		Check brake pads and discs; replace if necessary. For brake wear-in procedure, see Hydraulic Brakes in the Pre-Operation and Daily Safety Checklist on page 22. See also Brake System Section in the

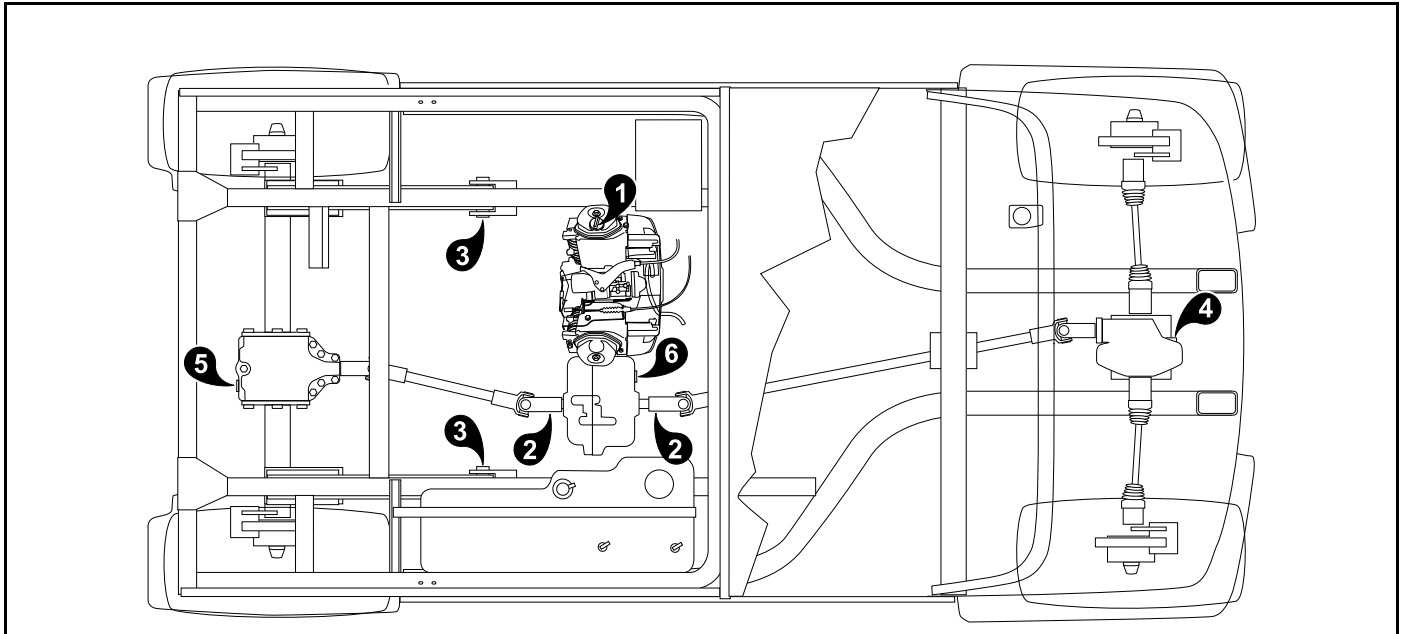
PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	SERVICE	
		appropriate maintenance and service manual.
Annual service by trained technician only (or every 100 hours of operation, whichever comes first)	Engine	Check for leaks around gaskets, fill plugs, etc.
		<b>Kawasaki gasoline engines:</b> Adjust valve clearance. <b>See Kawasaki FH680D Service Manual.</b>
		<b>Gasoline vehicles:</b> Inspect, clean, and gap spark plug; replace if necessary. See authorized dealer or trained technician for service.
		<b>Diesel vehicles:</b> Check the v-belt for proper tension or damage. Adjust or replace if necessary.
		<b>Diesel vehicles:</b> Change engine coolant. <b>See Radiator and Cooling System Section in the maintenance and service manual.</b>
	Radiator	<b>Diesel vehicles:</b> Check clamps for tightness; check hoses for cracks. Replace if necessary.
	Engine air intake system	Replace air filter element. <b>See Air Intake System on page 47.</b>
		Check clamps for tightness; check hose for cracks.
	General vehicle	Check for loose hardware and tighten if necessary.
	Fuel filters	Replace. Dispose of used filters properly.

## WARNING

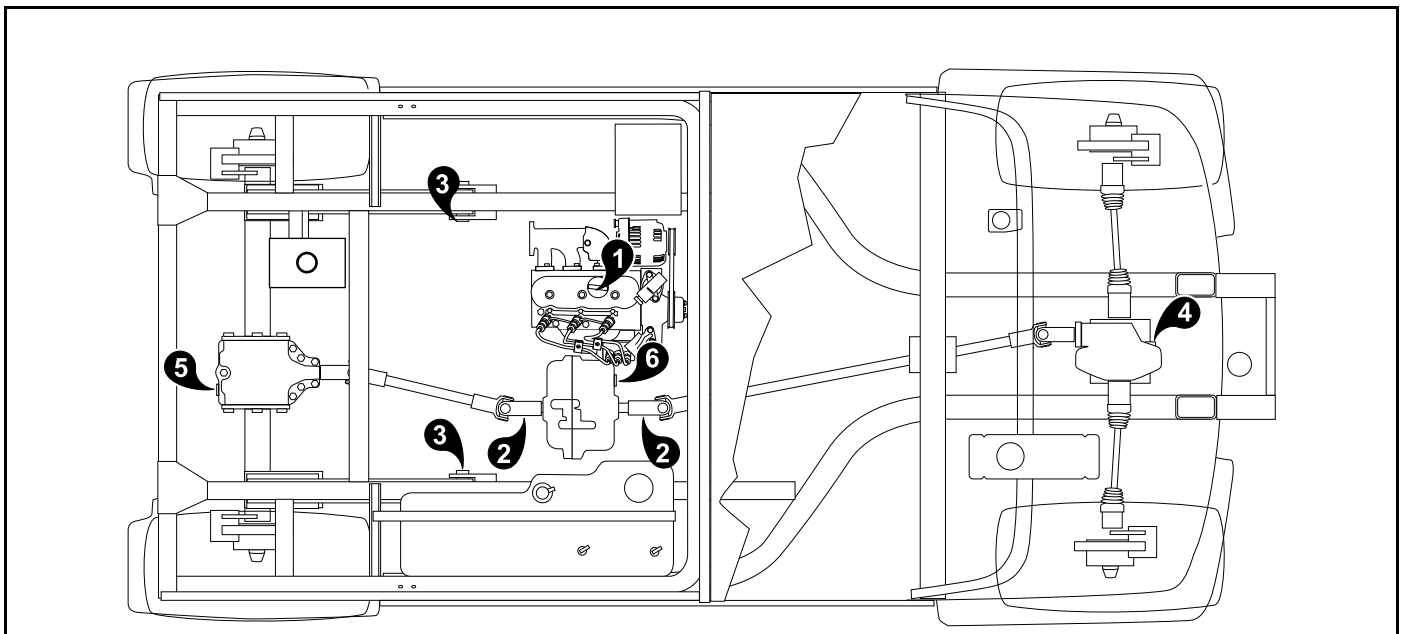
- If any problems are found during scheduled inspection or service, do not operate vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.

## PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE			
REGULAR INTERVAL	SERVICE	LUBRICATION POINTS	RECOMMENDED LUBRICANT
<b>Gasoline vehicle: Kawasaki engine- First change 10 hours</b> <b>Diesel vehicle: First change 50 hours</b> <b>Additional change for all engines every 100 hours of operation or annually, whichever comes first.</b>	Change engine oil and oil filter		<b>Gasoline (Kawasaki engine) vehicles:</b> 1 qt. and 19 oz (1.5L) with filter <b>Diesel vehicles:</b> 3 qt. (2.8 L) with filter <b>See Oil Viscosity on page 44.</b>
<b>Monthly by owner or trained technician</b>	Driveshaft		Chassis Lube (EP NLGI Grade 2)
<b>Semiannually by owner or trained technician (or every 50 hours of operation, whichever comes first)</b>	Rear suspension (2 fittings)		Chassis Lube (EP NLGI Grade 2)
<b>First change 50 hours – additional change every 100 hours of operation or annually, whichever comes first</b>	Change front differential lubricant		5 oz. (150 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant
<b>First change 50 hours – additional change every 300 hours of operation or annually, whichever comes first</b>	Change rear differential lubricant		20 oz. (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant
	Change transmission lubricant		20 oz. (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant

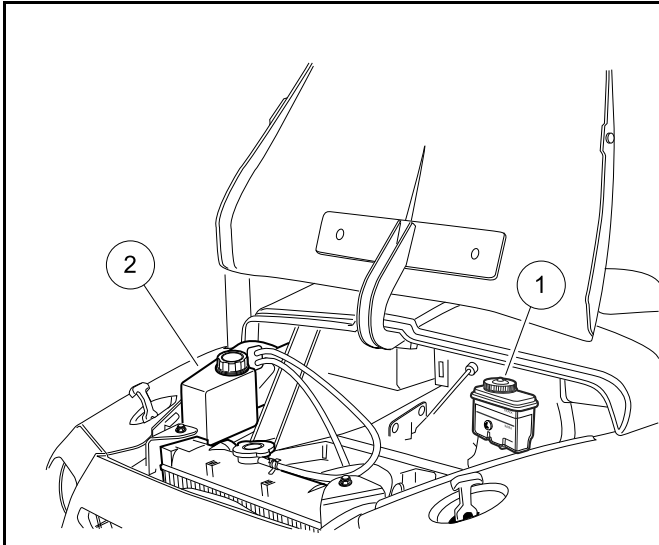


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**Figure 14 Lubrication Points – Gasoline Vehicles**

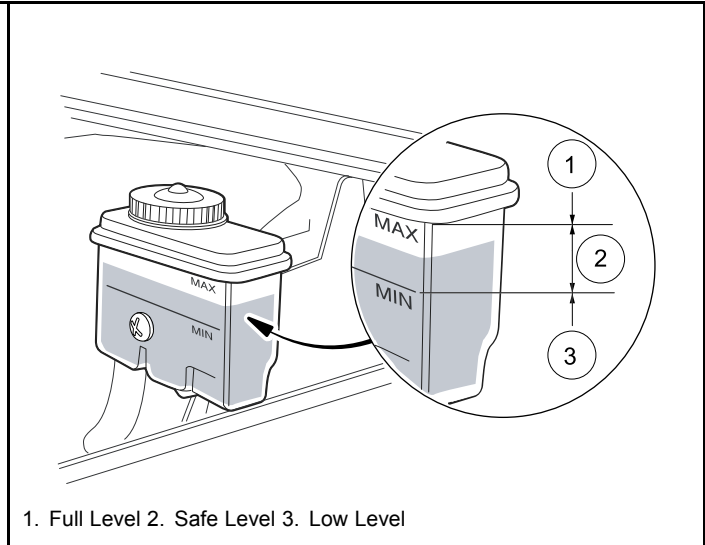


200  
**Figure 15 Lubrication Points – Diesel Vehicles**

## BRAKE FLUID RESERVOIR



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**Figure 16 Brake Fluid and Coolant Access (diesel vehicle shown)**



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**Figure 17 Brake Fluid Reservoir**

The brake fluid reservoir (1) is located under the hood (**Figure 16**). Raise the hood to check the brake fluid level. During the brake fluid level inspection, also inspect the following:

- The presence of brake fluid on the exterior surface of the master cylinder indicates a leak.
- The brake fluid reservoir diaphragm (located in the cap) should not have holes or other damage.

## BRAKE FLUID

Brake fluid level should be within 1/4-inch (6 mm) from the top of the reservoir (**Figure 17**). Also, brake fluid should be clean with no residue in the bottom of the reservoir or other evidence of contamination.

### **⚠ CAUTION**

- Use only DOT 5 (silicone) brake fluid. Use of any other type brake fluid is not recommended.



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## ENGINE OIL

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Even though the low oil warning light on the instrument panel should illuminate if the oil level becomes low, the engine oil level should be checked daily. The vehicle should be on a level surface when the oil is checked. Do not overfill the engine with oil.

### OIL PRESSURE – GASOLINE ENGINE

Kawasaki engine: The Kawasaki gasoline engine has an oil filter that is mounted on a bracket between and in front of the engine and transmission. Inlet and outlet oil-carrying hoses enable oil circulation to and from the engine. **See following NOTE.**

**NOTE:** The normal oil pressure value stated in the Kawasaki engine manual is 35-45 psi at idle; however, the remote filter design causes oil pressure to be 18 psi, which is normal for this type of oil circulation design.

### ENGINE OIL LEVEL CHECK

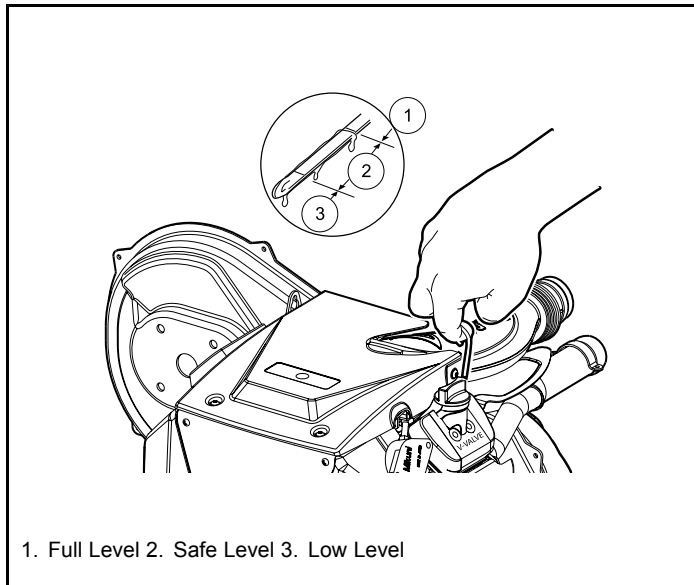
1. Remove the oil level dipstick from the oil filler tube and wipe oil from the dipstick (**Figure 18 and Figure 19**). **See following CAUTION.**

#### CAUTION

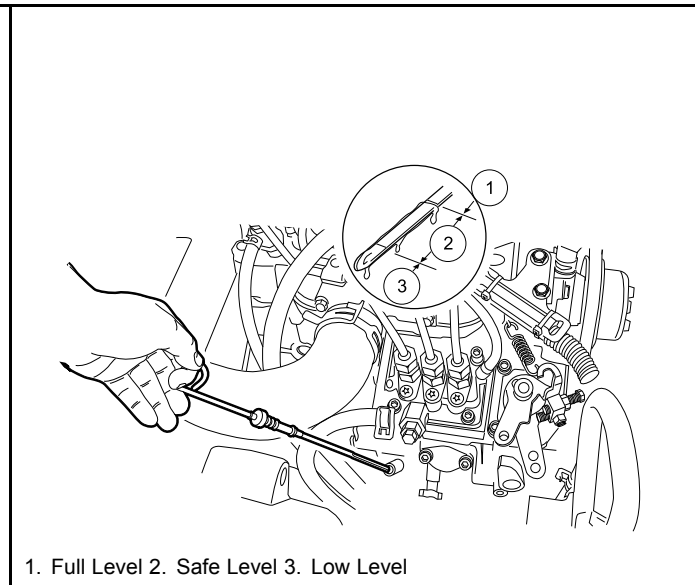
- Do not remove dipstick while engine is running.
2. Check oil level by fully inserting the dipstick into the tube and immediately removing it.
  3. If the oil level is at or below the low level mark on the dipstick gauge, add oil to the engine until the level is between low and full levels (safe level). **See following CAUTION.**

#### CAUTION

- Do not exceed recommended oil capacity. Doing so will decrease engine performance or result in damage to the engine.



1. Full Level 2. Safe Level 3. Low Level



1. Full Level 2. Safe Level 3. Low Level

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**Figure 18 Engine Oil Level Check – Kawasaki Gasoline Vehicles**

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**Figure 19 Engine Oil Level Check – Diesel Vehicles With Passenger-side Dipstick**

## ENGINE OIL AND FILTER CHANGE

Engine oil and oil filter should be changed:

- Kawasaki gasoline engine after the first 10 hours of operation.
- Kubota diesel engine after the first 50 hours of operation.

After that, the oil should be changed every 100 hours of operation or annually, whichever comes first.

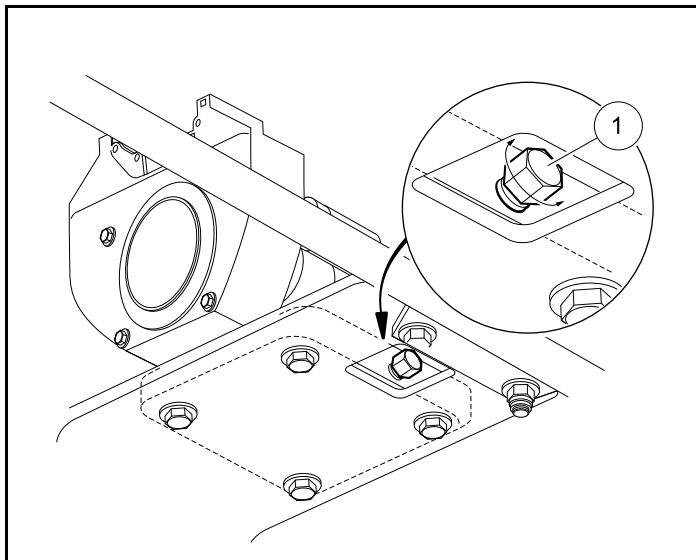
### Engine Oil Draining

1. Turn the key switch to the OFF position and remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the front wheels.
2. Disconnect the battery cables, negative (–) cable first. **See WARNING “To avoid unintentionally starting...” in General Warnings on page 12.**
3. Remove the oil filler cap to allow the oil to drain properly.
4. Position a pan designed for oil changes under the drain plug (**Figure 20 or Figure 21**).
5. From the underside of the vehicle, use a socket or wrench to remove the drain plug (1). Turn the plug counterclockwise and drain the engine oil into the pan. **See following WARNING.**

### **⚠ WARNING**

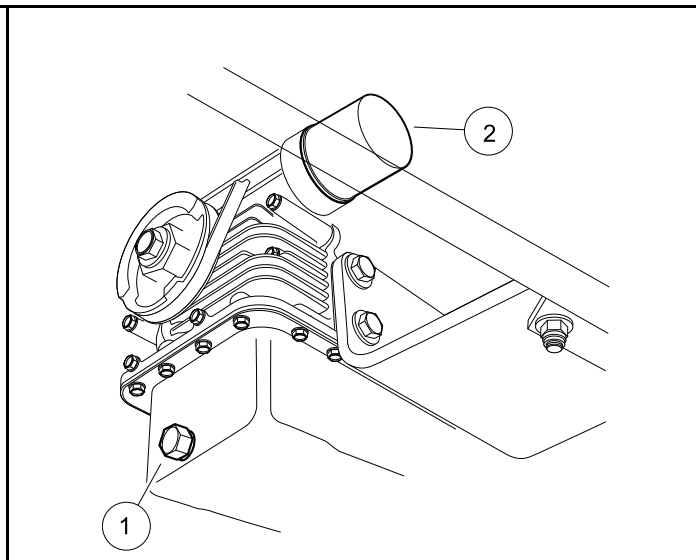
- **Do not attempt to change engine oil when the engine is hot or even warm. Hot engine oil can cause skin burns.**
  - **Wear safety glasses or approved eye protection when servicing the vehicle. Wear rubber gloves when handling oil drain plug, oil filter, and oil drain pan.**
6. Clean the oil drain plug threads with solvent to remove oil and oil residue. Make sure that the compression washer or sealing o-ring remains on the drain plug. Inspect the compression washer or the sealing o-ring and replace if necessary.

7. Use a socket or wrench to replace the oil drain plug (1) (**Figure 20 or Figure 21**). Turn the plug clockwise and tighten to 61 in-lb (6.9 N·m) for Kawasaki gas vehicles with plastic drain plugs, 14.5 ft-lb (20 N·m) for Kawasaki gas vehicles with metal drain plugs, or 31 ft-lb (42 Nm) for diesel vehicles.



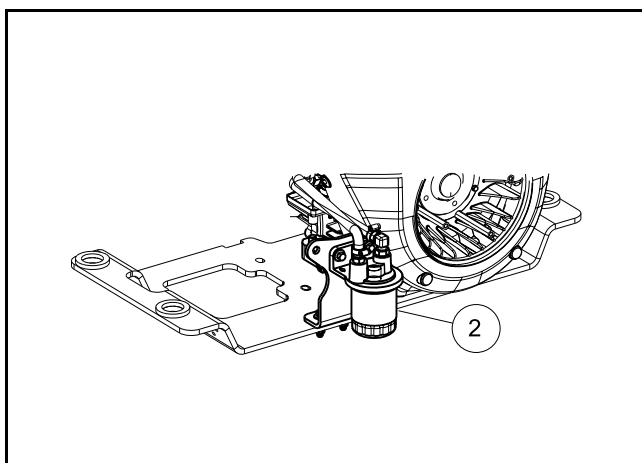
207

**Figure 20 Engine Oil Drain Plug and Pan – Gasoline Vehicles**



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**Figure 21 Engine Oil Drain Plug and Oil Filter – Diesel Vehicles**



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**Figure 22 Replace Engine Oil Filter – Kawasaki Gasoline Vehicles**

### Engine Oil Filter Change

1. Drain the engine oil. **See Engine Oil Draining on page 40.**
2. Place the oil drain pan under the engine oil filter (2) (**Figure 21 or Figure 22**).
3. Remove the engine oil filter. Turn it counterclockwise and drain the residual oil in the filter port and filter into the oil drain pan. **See following NOTE.**

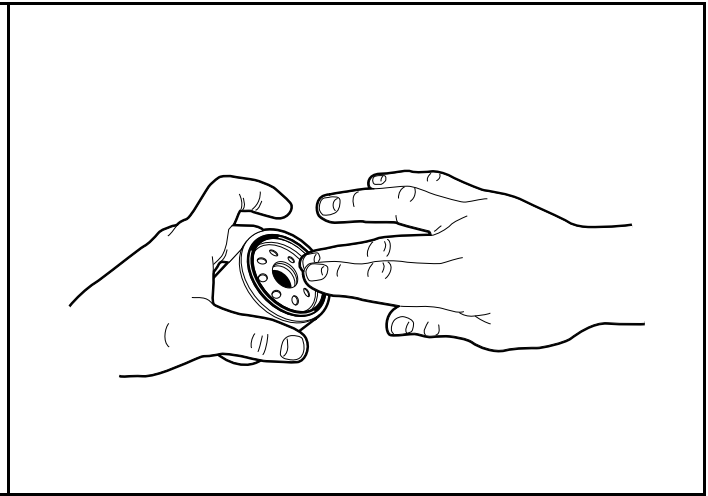
**NOTE:** An oil drip guard (1) can be used to prevent excess oil from dripping onto the engine base plate (**Figure 23**). Use an empty quart (one liter) container and cut the bottom off at an angle, then slide the open area of the container up and under the oil filter (2) before removal. Position the port of the plastic container so oil will be directed into the oil pan (3). A drip guard can be made by folding a piece of cardboard, thin metal, or plastic under the oil filter, forming a channel to direct the filter port oil into the drain pan.

Dispose of used oil according to the environmental laws and regulations for your area.



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**Figure 23 Remove Engine Oil Filter**



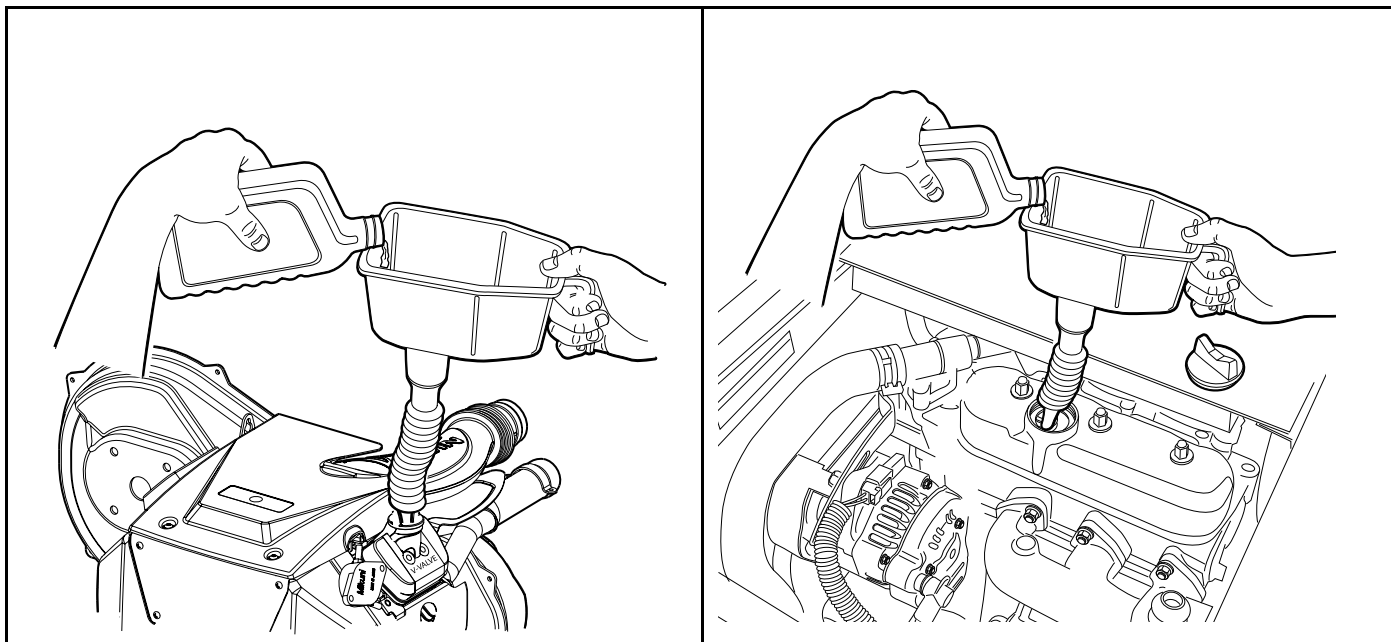
27

**Figure 24 Coat Rubber Seal**

4. Use a clean, lint-free rag to wipe the oil filter port flange surface clean where the oil filter gasket seats.
5. To help seal the new oil filter to the oil port flange, apply a light coat of white lithium NLGI Number 2 grease (Dow Corning® BR2-Plus or equivalent) or new engine oil to the rubber seal around the outside surface of the filter before attaching it to the oil filter port (**Figure 24**). Install the new oil filter (gas: P/N 603 00 00-06) (diesel: P/N 603 00 00-41) onto the engine oil filter port. **See following NOTE.**

**NOTE:** Use only oil filters designed for your engine.

6. Tighten the oil filter by hand 2/3 turn after gasket contact. Do not use a band wrench or channel lock pliers.



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**Figure 25 Add Engine Oil – Gasoline Vehicles**

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**Figure 26 Add Engine Oil – Diesel Vehicles****Engine Oil Filling**

1. Add engine oil; use a funnel or pour spout to direct the oil into the opening (**Figure 25 or Figure 26**). With filter change, the engine requires:
  - Kawasaki gasoline engines: 1 qt. and 19 oz. (1.5 L) of oil per change.
  - Kubota diesel engines: 3 qt. (2.8 L) of oil per change.
2. Refer to oil viscosity guidelines for selection of oil grade (**Figure 27 or Figure 28**). **See following CAUTION.**

**CAUTION**

- **Do not exceed recommended oil capacity. Doing so will decrease engine performance or result in damage to the engine.**
3. Connect the battery cables, positive (+) cable first, and tighten terminals to 144 in-lb (16 N·m). Coat terminals with Battery Terminal Protector Spray (P/N 603 00 00-03).
  4. With the Forward/Reverse handle in the NEUTRAL position, start and run the engine for a few minutes. Observe both the drain plug and the oil filter from under the vehicle and watch for oil leaks. If a leak is detected, check the tightness of the oil filter and drain plug. Tighten, repair, and/or replace components as necessary. **See following NOTE.**

**NOTE:** Wait five minutes after turning off the engine before removing the dipstick.

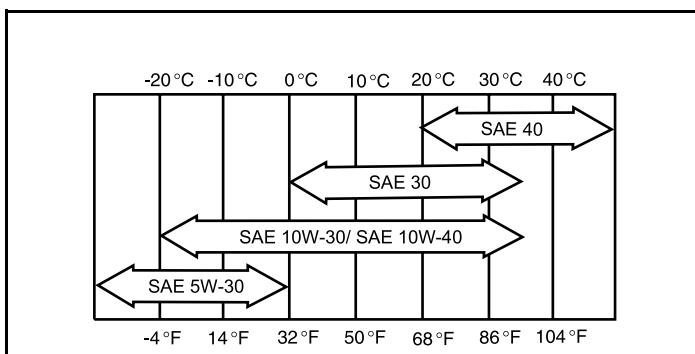
5. Remove the dipstick and check the engine oil as a final step. Replace the dipstick.

## OIL VISCOSITY

Choose the viscosity according to the temperature as shown in the appropriate oil viscosity chart (**Figure 27** or **Figure 28**). See following **NOTE**.

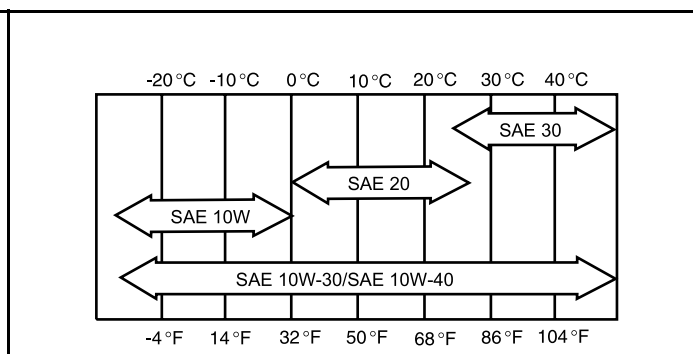
**NOTE:** Use engine oil with API classification SJ for gasoline engines and CF for diesel engines.

Using multi-grade oils (5W-20, 10W-30, and 10W-40) may increase oil consumption. If multi-grade oil is used, check the oil level more frequently.



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**Figure 27 Oil Viscosity Chart – Gasoline Vehicles**



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**Figure 28 Oil Viscosity Chart – Diesel Vehicles**

## GEARCASE LUBRICATION

**NOTE:** Dispose of used oil according to the environmental laws and regulations for your area.

### LUBRICATION LEVEL CHECK FOR FRONT DIFFERENTIAL, TRANSMISSION, AND REAR DIFFERENTIAL

Each gearcase component is equipped with two oil port plugs (1 and 2) (**Figure 29**, **Figure 30**, and **Figure 31**). When the vehicle is on a level surface, use the level indicator hole (upper plug) (1) as a lubricant level indicator. Lubricant level should be even with the bottom of level indicator hole (1).

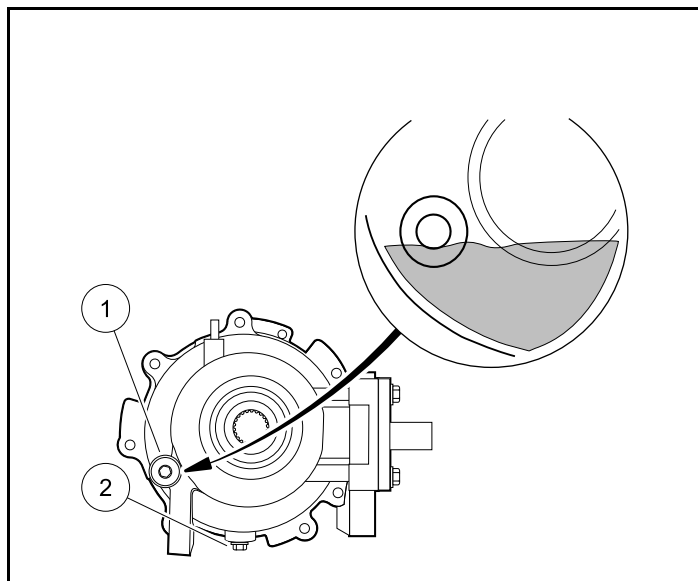
### LUBRICATION CHANGE FOR FRONT DIFFERENTIAL, TRANSMISSION, AND REAR DIFFERENTIAL

Use the lower plug (2) for drainage (**Figure 29**, **Figure 30**, or **Figure 31**). Remove both plugs to allow the lubricant to drain faster. See preceding **NOTE**.

Metal particles may be discovered in the fluid or on the magnetic drain plug when changing the differential or transmission fluid. These particles are normal and expected for the first few fluid changes. This is a result of the gears being “net forged”, meaning the gears are forged to a shape very close to the final gear size but the teeth are not finish machined prior to assembly. The “finish machining” occurs when the gears make contact under load during vehicle operation. The magnetic drain plug is included in the design to collect the metal particles generated from the gear break in process. This is an established process and is not detrimental to gear service life.

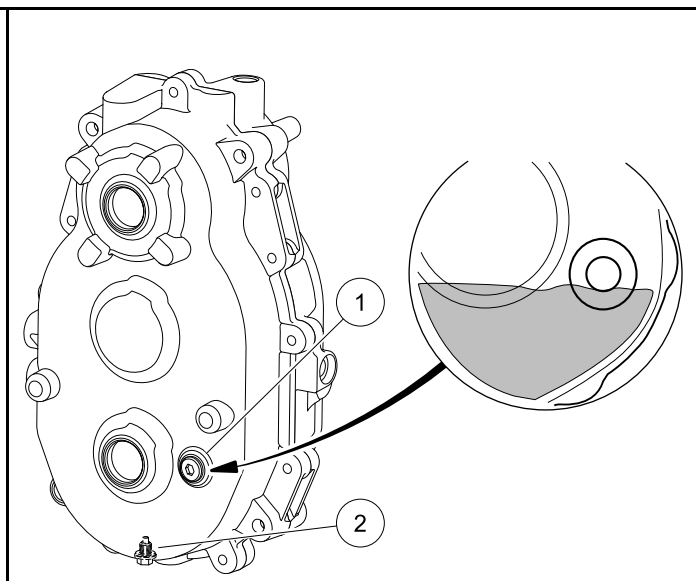
**Front differential:**

Clean and install the drain plug (2) and washer before filling the front differential with new lubricant (**Figure 29**). Tighten the drain plug to 108 in-lb (12 N·m). Use a funnel when filling the front differential through the lubricant level indicator hole (1). **See Periodic Lubrication Schedule on page 36.** Tighten the level indicator plug to 120 in-lb (14 N·m).



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**Figure 29 Front Differential Lubrication Level**



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**Figure 30 Transmission Lubrication Level**

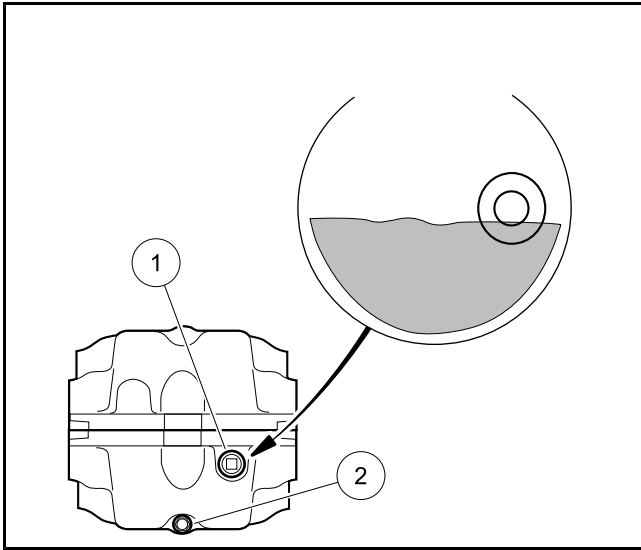
#### Transmission:

Clean and install the drain plug (2) before filling the transmission with new lubricant (**Figure 30**). Tighten the drain plug to 96 in-lb (11 N·m). Remove the fill plug from the top of the transmission case and use a funnel to fill the transmission with lubricant. **See Periodic Lubrication Schedule on page 36.** Apply Loctite 567 to the threads of the fill plug and tighten to 21 ft-lb (28 N·m).

Check the level of lubricant at the level indicator plug (1). Apply Loctite 567 to the threads of the level indicator plug and tighten to 21 ft-lb (28 N·m).

#### Rear differential:

Clean and install the drain plug (2) and washer before filling the rear differential with new lubricant (**Figure 31**). Tighten the drain plug to 96 in-lb (10.8 N·m). Use a funnel to fill the differential through the lubricant level indicator hole (1). **See Periodic Lubrication Schedule on page 36.** Apply Loctite 567 to the threads of the level indicator plug and tighten to 21 ft-lb (28 N·m).



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**Figure 31 Rear Differential Lubrication Level**

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## ENGINE COOLANT – DIESEL VEHICLES

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### ENGINE COOLANT LEVEL CHECK

The coolant reserve tank (2) is located under the hood on the passenger side (**Figure 16**). Raise the hood to check the coolant level before every operation.

1. Check the coolant level of the reserve tank (2). If the coolant is at or below the LOW mark, add pre-mixed coolant until the level reaches the FULL mark. If a leak is detected, have it checked by a trained technician. **See following WARNING.**

#### **⚠ WARNING**

- **Hot! Coolant reserve tank is pressurized. Do not remove cap when engine is hot.**



## AIR INTAKE SYSTEM

### CAUTION

- Do not drill into the driver-side frame. Failure to heed this caution could damage the engine by allowing excessive contamination to enter the air intake system.

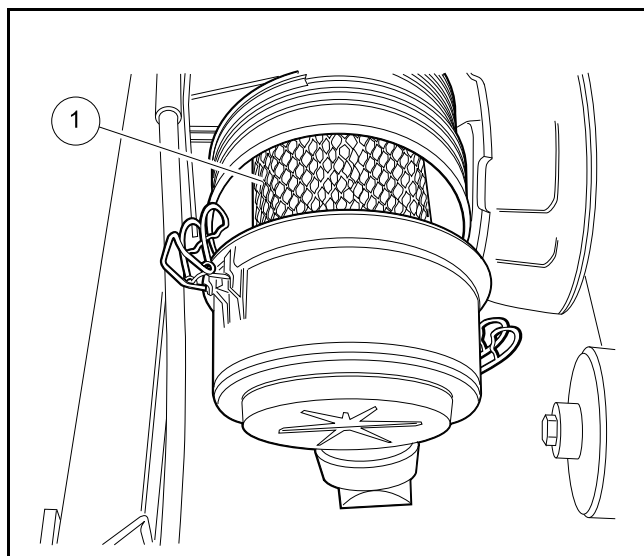
### AIR FILTER REPLACEMENT

The air filter should be inspected periodically and replaced when necessary. Filter changes should not exceed the recommended interval. **See Periodic Service Schedule on page 33.** More frequent service may be required in extremely dirty operating environments. In the event of a loss of power, sluggish acceleration, or a roughly running engine, service the air filter immediately.

#### Air Filter Removal

1. Raise the cargo bed, and locate the air filter canister.
2. Release both canister tab locks (**Figure 32**).
3. Pull the canister cap away from the canister.
4. Remove the air filter cartridge (1). **See following NOTE.**

**NOTE:** The air filter cartridge is specifically designed for this engine. It only fits into the canister one way. Use only the Husqvarna part (P/N 603 00 00-10) designed for this engine.



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Figure 32 Air Filter Cartridge

#### Air Filter Installation

1. Push the new air filter cartridge onto the nozzle inside the canister.
2. Place the canister cap, marked TOP, on the top center of the canister.
3. Secure the canister cap with both tab locks.

## FUELING INSTRUCTIONS

See General Warnings on page 12.

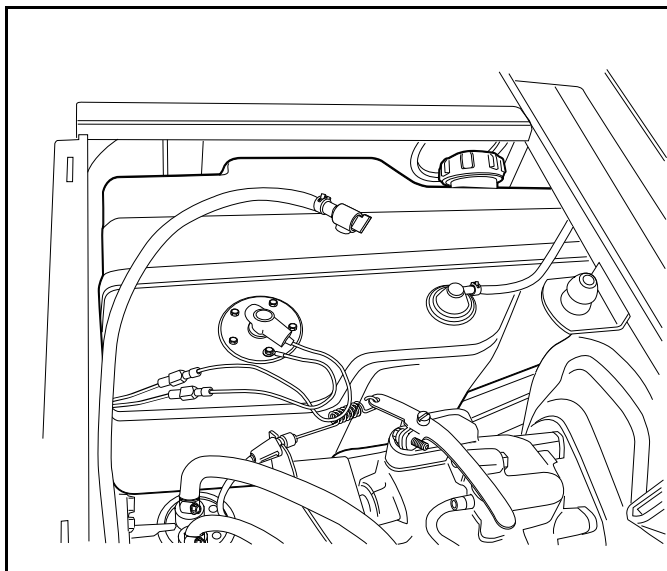
### **⚠ DANGER**

- Turn the key switch to the OFF position before fueling.
  - Do not pour fuel into the fuel tank when the engine is hot or while it is running.
  - To avoid electric arc caused by static electricity, the fuel storage/pumping device must be grounded. If the pump is not grounded, the vehicle must be grounded to the pump before and during the fueling operation.
  - To avoid the possibility of fire, clean up any spilled fuel before operating the vehicle.
1. Remove the fuel cap and fill the tank with fuel. Gasoline vehicles have a black fuel cap; diesel vehicles have a green fuel cap. **See preceding DANGER and following NOTE.**

**NOTE: Gasoline vehicles:** Use unleaded gasoline only. Whenever possible, avoid using oxygenated fuels and fuels that are blended with alcohol.

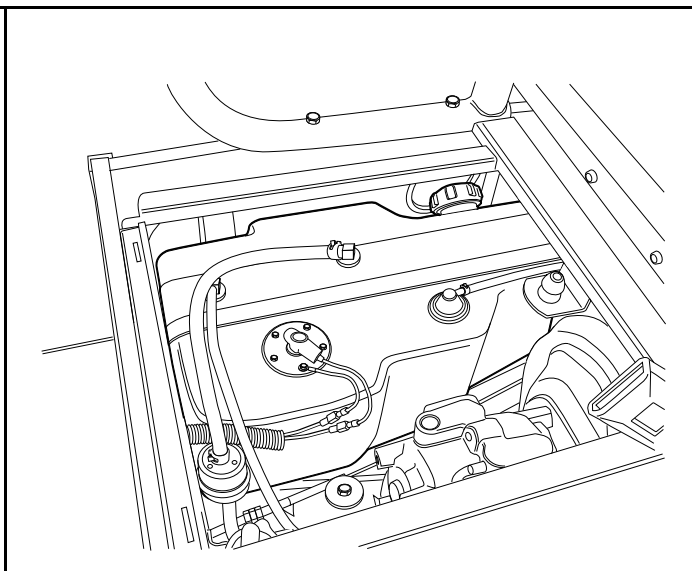
**Diesel vehicles:** Use only diesel fuel grade no. 2 with a cetane rating of 45 or higher.

2. Replace the fuel cap. Ensure that the cap is tightened securely.
3. Clean any spilled fuel from the cap or around the fuel cap area.



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**Figure 33 Fuel Tank – Gasoline Vehicles**



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**Figure 34 Fuel Tank – Diesel Vehicles**

### **BIODIESEL FUEL (DIESEL VEHICLES ONLY)**

Biodiesel has unique qualities that should be considered before it is used in the Kubota D722 diesel engine. During cold weather, plugged fuel lines, plugged fuel systems, hard starting, and other unknown failures can result from use of this fuel.

Biodiesel is an excellent medium for microbial growth and contamination. Microbial contamination can cause corrosion of the fuel system and prematurely plugged fuel filters. **See following NOTE.**

**NOTE:** *Use of biodiesel may result in premature failure of fuel system components. Kubota has documented problems such as plugged fuel filters and deteriorated fuel lines during testing of biodiesel.*

Biodiesel can damage painted surfaces. Be sure to remove all spilled fuel immediately to help prevent damage to painted surfaces.

If biodiesel will be used in the Kubota D722 engine, be sure that it meets the following requirements:

- The fuel blend should contain no more than 5% biodiesel by volume.
- The petroleum portion of the fuel blend must meet ASTM standard D975 and the biodiesel portion of the fuel blend must meet ASTM standard D6751.
- For Europe, the fuel blend must meet the EN590 standard. **See following CAUTION.**

## **CAUTION**

- **Never use any fuel that does not meet specifications or fuel in which the contents cannot be identified. Using blends higher than 5% biodiesel content can affect engine life and cause deterioration of hoses, tube lines, injectors, injector pump and seals.**
- **For more information on these fuel standards, please contact your nearest Kubota dealer.**

If biodiesel is used, be sure to apply the following guidelines:

- Ensure the fuel tank is as full as possible at all times to prevent moisture from collecting.
- Ensure that the fuel tank cap is securely tightened to prevent water from entering the fuel tank.
- Drain all water from the fuel filter daily before operating vehicle. **See Draining Water from Fuel Filter.**
- Check the engine oil level daily before the engine is started. **See Engine Oil Level Check on page 39.**
- Before vehicle storage, run the engine with conventional diesel fuel for at least 30 minutes to flush the biodiesel from the engine. **See Preparing the Vehicle for Extended Storage on page 31. See following NOTE.**

**NOTE:** *Biodiesel does not have long-term stability and must not be left in engines longer than three months. This fuel type attracts moisture and may contain higher water content than conventional diesel fuel.*

Fuel system maintenance, cleaning, and fuel line replacement are required more frequently for engines that are operated with biodiesel.

## **DRAINING WATER FROM FUEL FILTER**

### **Diesel Vehicles Only**

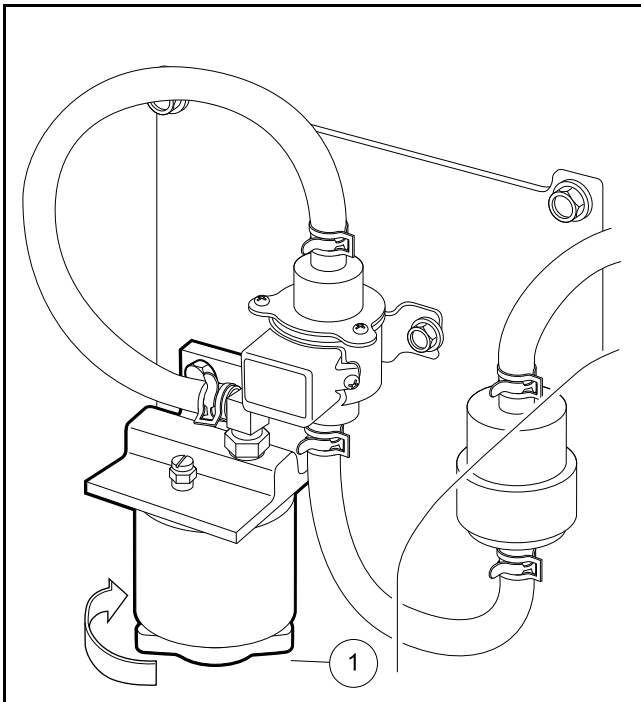
Water should be drained from the fuel filter daily. The fuel filter is mounted on a plate by the lower seat support panel (**Figure 35**).

1. Position a pan under the fuel filter.
2. Lift the passenger-side seat.
3. Locate the valve (1) on the underside of the filter. Turn the valve clockwise until water begins to stream from the filter.
4. Drain the water until it changes color (to fuel). **See following WARNING.**

## **⚠ WARNING**

- Clean up spilled fuel. Keep sparks and flames away from the vehicle and service area. Failure to heed this warning could result in an explosion or fire, resulting in severe personal injury or death.
5. Close the valve by rotating it counterclockwise until the valve is firmly sealed.
  6. To resupply the filter with fuel, turn the key switch to the ON position for 10 seconds. **See following NOTE.**

**NOTE:** Dispose of water according to the environmental laws and regulations for your area.



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Figure 35 Fuel Filter

## **BATTERY**

See General Warnings on page 12.

## **⚠ DANGER**

- Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.
- Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing. Antidotes:
  - External: Flush with water. Call a physician immediately.
  - Internal: Drink large quantities of milk or water followed with milk of magnesia or vegetable oil. Call a physician immediately.

DANGER CONTINUED ON NEXT PAGE

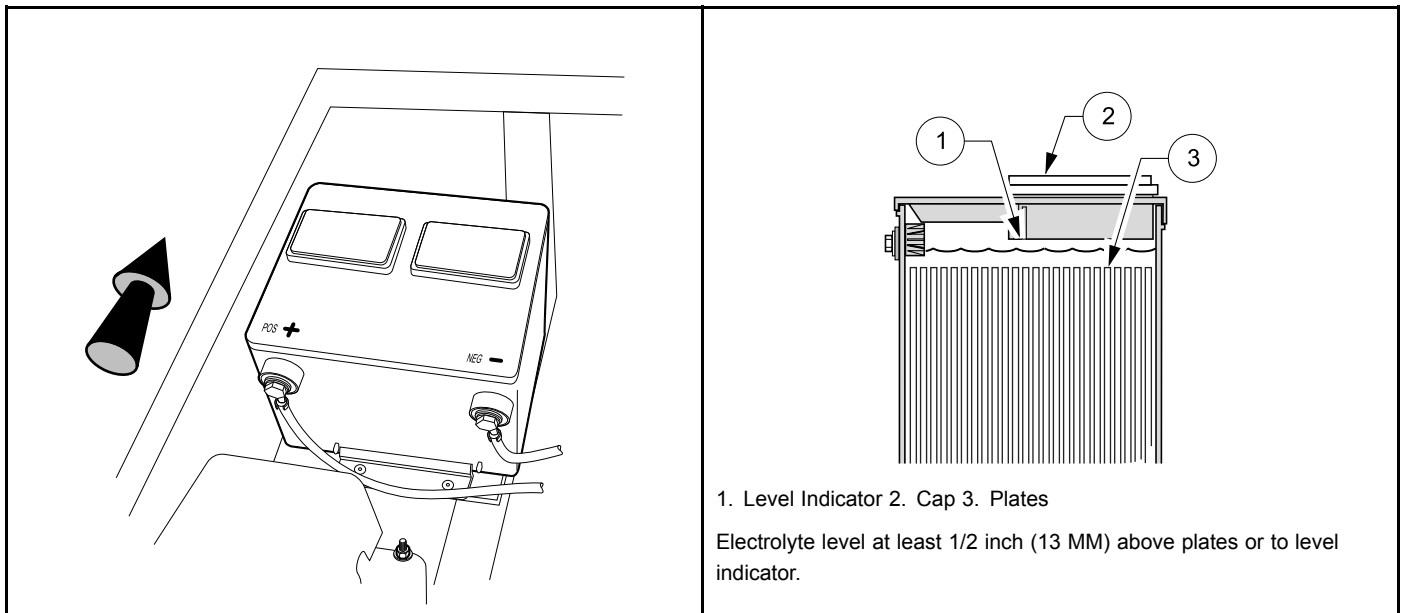
## **⚠ DANGER**

- Eyes: Flush with water for 15 minutes. Call a physician immediately.
- Tools, wires, and metal objects can cause sparks when shorted across a battery.

## **⚠ WARNING**

- Wear safety glasses or approved eye protection when servicing the vehicle.
- Follow all instructions carefully when working with batteries.
- When jumping from a booster battery make final (negative) connection at engine frame.
- Do not jump start or charge a frozen or damaged battery. Unplug charger before connecting or disconnecting cables to the battery. Never lean over battery while boosting, testing, or charging.

The battery in this vehicle is a 12-volt, low-maintenance battery that requires infrequent checks (**Figure 36**). Electrolyte level should be checked semiannually.



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Figure 36 Battery

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Figure 37 Battery Electrolyte Level

1. Turn the key switch to the OFF position and remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the wheels.
2. Access the engine compartment. **See WARNING “For vehicles with cargo beds...” in General Warnings on page 12.**
  - 2.1. Remove the driver-side seat.
3. Disconnect the battery cables, negative (–) cable first. **See WARNING “To avoid unintentionally starting...” in General Warnings on page 12.**
4. Use a flat-blade screwdriver, and carefully remove the battery cell caps from the battery. **See following WARNING.**

## **⚠ WARNING**

- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**
5. Carefully check the electrolyte level and add distilled water if necessary. Do not fill the battery cells above the designated fill line. Replace battery cell caps.
  6. Clean both battery terminals with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse thoroughly. Do not allow this solution to enter the battery. Tighten battery terminals to 144 in-lb (16 N·m). Let the terminals dry and then spray them with Battery Terminal Protector Spray (P/N 603 00 00-03). **See following WARNING.**

## **⚠ WARNING**

- **If battery wire terminals are damaged or corroded, replace or clean them as necessary. Failure to do so may cause them to overheat during operation and could result in a fire, property damage, or personal injury.**

Be sure the battery hold-down clamp is properly tightened. Tighten to 108 in-lb (12.2 N·m). A loose clamp may allow the battery to become damaged from vibration or jarring.

If battery appears weak, have it charged by a trained technician. The battery should never be left discharged any longer than absolutely necessary (do not leave discharged overnight).

## **USING A BOOSTER BATTERY (JUMP STARTING)**

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## **⚠ WARNING**

- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.**
- **When jumping from a booster battery make final connection (negative) at engine frame.**
- **Do not jump start or charge a frozen or damaged battery. Unplug charger before connecting or disconnecting cables to the battery. Never lean over battery while boosting, testing, or charging.**

If it is necessary to use a booster battery to start the engine, BE CAREFUL!

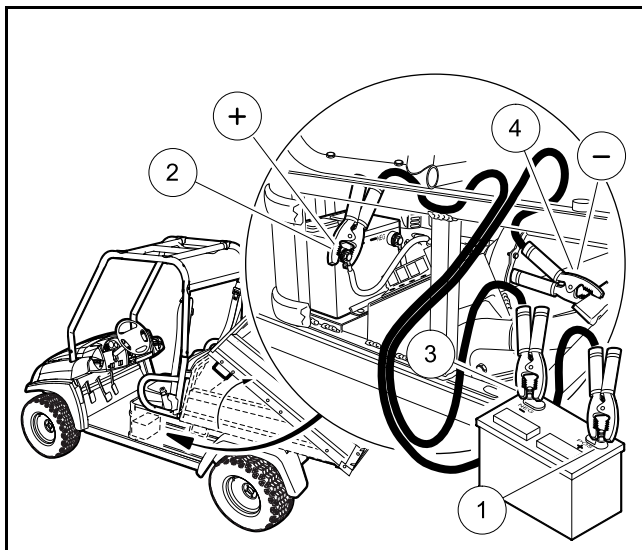
1. Turn the key switch to the OFF position. Place the Forward/Reverse handle in the NEUTRAL position, engage the park brake, and chock the wheels.
2. Ensure the booster battery is 12-volt. **See following NOTE.**

**NOTE:** A starting battery is recommended but a deep cycle battery can be used if necessary.

3. Access the engine compartment by raising the cargo bed. **See WARNING “For vehicles with cargo beds...” in General Warnings on page 12.**
4. Locate the vehicle battery on the driver’s side of the vehicle under the cargo bed (**Figure 38**).
5. Connect the end of the first cable (1) to the positive (+) terminal of the booster battery. Connect the other end of the same cable (2) to the positive terminal of the vehicle battery. **See DANGER “Battery – Explosive gases!...” in General Warnings on page 12.**
6. Connect the end of the second cable (3) to the negative (–) terminal of the booster battery. Connect the other end of the same cable (4) to the battery frame ground.
7. Sit in the driver’s seat and start the engine.
8. After the engine has started, remove the frame ground (–) cable (4) first. Remove the cable from the positive terminal (2). Then remove the cables from the booster battery. **See following CAUTION.**

## CAUTION

- The alternator can be damaged if the following actions occur:
  - Engine is operated with battery cables disconnected.
  - Booster cables are connected wrong.



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Figure 38 Jump Starting

## CLEANING THE VEHICLE

Each vehicle is equipped with hand wash-washable front and rear bodies. The vehicle has a powder-coated steel cargo bed (or optional aluminum flat bed). Use commercial automotive cleaning solutions with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate. To remove oxidation or discoloration from aluminum, use a commercially available aluminum cleaner paste and fine grade (No. 00) steel wool.

The manufacturer does not recommend any type of pressure washing or steam cleaning. Such a process will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.

Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains.

The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains, or scratches, blemishes, or other body damage, see the appropriate maintenance and service manual. **See following NOTE.**

**NOTE:** Dispose of waste water properly.

## ACCESSORIES

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There is a complete line of accessory equipment available from our dealers/distributors.

Care should be taken that these accessories are properly installed by trained technicians and that they are used in the manner for which they were designed. **See following WARNING and CAUTION.**

### **⚠ WARNING**

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- Custom cab assemblies, canopy tops, weatherproof enclosures, and windshields will not protect occupants from flying objects.
- If the vehicle is equipped with an electric-powered bed lift, remove the bed before servicing the bed lift system.

### **CAUTION**

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- Do not drill into the driver-side frame. Failure to heed this caution could damage the engine by allowing excessive contamination to enter the air intake system.

## ELECTRIC WINCH ACCESSORY

If your vehicle is equipped with an electric winch, read and follow all manufacturer safety warnings and instructions in the winch operator manual, as well as the following WARNING and CAUTION statements. Make sure a winch warning decal is affixed to the vehicle on the seat support panel next to the receptacle for the remote operation switch.

The winch kit available includes a remote operation switch, which enables the operator to move away from the vehicle and cable. **See following WARNING and CAUTION.**

### **⚠ WARNING**

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- Before beginning a winch operation:
  - Turn key switch to the OFF position, put Forward/Reverse handle in the NEUTRAL position, and engage the park brake.
  - Do not use winch while persons are seated on the vehicle.
- Stand to the side and away from the vehicle to operate winch.

### **CAUTION**

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- Use of the winch for an extended period of time could discharge the battery. Keep winch operations as short as possible, and drive the vehicle for several minutes after the winch operation to recharge the battery.

## MUD TIRE OPTION

All-wheel drive (AWD) vehicles equipped with optional mud tires are intended only for off-road operation; they are not designed for use on paved surfaces such as asphalt and concrete. Frequent driving on paved surfaces will significantly decrease the life of the mud tires. Vehicle performance will also be reduced when driving on paved surfaces. **See following WARNING and CAUTION.**



## **⚠ WARNING**

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- To avoid the risk of rollover when operating a vehicle equipped with mud tires on a paved surface: reduce speed, use extreme caution, and drive slowly in turns.
- The diameter of all tires on the vehicle must be equal; otherwise the all-wheel drive system will not operate as intended and could result in severe personal injury or death. Never install tires of different diameters on the vehicle.

## **CAUTION**

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- Optional mud tires (off-road) are directional and must be installed according to the directional arrow mark (arrow indicates forward rotation of the tire) on the side-wall of each tire, or the tread performance will be severely compromised.

The tires are made specifically for the AWD vehicle; therefore, Husqvarna recommends that only tires purchased from Husqvarna be used on your AWD vehicle.

## **SUBSEQUENT OWNER REGISTRATION**

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In the event a vehicle is bought as a used vehicle, we strongly urge the new owner to register the vehicle with Husqvarna. This will enable us to contact you if the need arises. Please send your name, address, and serial number of the vehicle to Husqvarna, 7349 Statesville Rd., Charlotte, NC 28269, Attention: Vehicle Registration.

## VEHICLE SPECIFICATIONS

SPECIFICATIONS	HUV 4421-G; HUV 4421- GXP	HUV 4421-D; HUV 4421- DXP	HUV 4421-GXL	HUV 4421- DXL
<b>POWER SOURCE</b>	<b>GASOLINE</b>	<b>DIESEL</b>	<b>GASOLINE</b>	<b>DIESEL</b>
<b>Engine:</b> (Kawasaki) 4-cycle OHV, 675 cc, 23.0 maximum HP @3600 RPM (per SAE J 1940/1349), twin-cylinder, air-cooled, with pressure lubrication system	.		.	
<b>Engine:</b> 4-cycle OHV, 719 cc, 20.0 maximum HP @3600 RPM (per SAE J 1940/1349), three-cylinder, liquid-cooled, with pressure lubrication system		.		.
<b>Fuel system:</b> Side-draft carburetor with float bowl, fixed jets, fuel filters, and impulse fuel pump	.		.	
<b>Fuel system:</b> Mechanical injection, fuel water separator, fuel filters, and electric fuel pump		.		.
<b>Governor (Kawasaki engine):</b> internal to engine, centrifugal ball	.		.	
<b>Governor:</b> internal to engine, mechanical, centrifugal ball		.		.
<b>Ignition:</b> Transistorized magneto	.		.	
<b>Ignition:</b> Compression		.		.
<b>Transmission:</b> Forward and reverse with neutral (5.39:1 forward, 7.79:1 reverse)	.	.	.	.
<b>Electrical system:</b> 12 volt, 500 cca at 0 °F (-17.8 °C), 650 at 32 °F (0 °C). 105-minute reserve capacity and 35-amp charging capacity	.	.	.	.
<b>Torque converter:</b> Automatic, variable-speed, dry type	.	.	.	.
<b>STEERING/SUSPENSION/BRAKES</b>				
<b>Suspension:</b>				
<b>Front:</b> Independent double A-arms with coil-over shock absorbers	.	.	.	.
<b>Rear:</b> Swing arms with coil-over shock absorbers				
<b>Steering:</b> Self-adjusting rack and pinion, Ackerman	.	.	.	.
<b>Brakes:</b> Hydraulic brake system – brake pads and discs on each wheel with separate foot-operated park brake	.	.	.	.
<b>BODY/CHASSIS</b>				
<b>Frame/Chassis:</b> Box tube aluminum	.	.	.	.
<b>Side and rear body:</b> Plastic	.	.	.	.
<b>Cargo bed:</b> Powder-coated steel or aluminum	.	.	.	.
<b>Front body:</b> Geloy XTWM206	.	.	.	.
<b>Tires: All Terrain:</b> 25 x 10.5 – 12 front and rear; tubeless, 4-ply rated load range <b>Mud:</b> 25 x 11 – 12 front and rear; tubeless, 4-ply rated load range	.	.	.	.
<b>DIMENSIONS/WEIGHT</b>				
<i>NOTE: Items marked with an asterisk (*) indicate approximate values.</i>				
<b>*Overall length</b> (box bed configuration, without brush guard):	122 in. (309.9 cm)		154 in. (391.2 cm)	

SPECIFICATIONS	HUV 4421-G; HUV 4421- GXP	HUV 4421-D; HUV 4421- DXP	HUV 4421-GXL	HUV 4421- DXL
<b>Overall width:</b> without mirror with mirror	58.5 in. (148.5 cm) 63.6 in. (161.5 cm)			
<b>*Overall height</b> (with ROPS): with mud tires with all-terrain tires	82.3 in. (209 cm)		80.3 in. (203.8 cm)	
<b>Wheelbase</b>	81.5 in. (207 cm)		114 in. (289.5 cm)	
<b>Ground clearance:</b> under differential	8.2 in. (20.8 cm)			
<b>Front and rear wheel tread</b>	48.8 in. (124 cm)			
<b>*Weight:</b> 2-passenger gasoline with electric bed lift, mud tires, and without brush guard 2-passenger diesel with electric bed lift, mud tires, and brush guard 4-passenger gasoline with all-terrain tires 4-passenger diesel with all-terrain tires	1450 lb. (657.6 kg)	1597 lb. (724.2 kg)	1630 lb. (739.2 kg)	1734 lb. (786.4 kg)
<b>Forward speed</b>	25 mph (40 km/h)			
<b>Governed RPM</b>	3825			
<b>Turning Radius</b>	138 in. (350.5 cm)		204 in. (518.2 cm)	
<b>Load bed height</b>	34 in. (86.4 cm)			
<b>Load bed size</b> (box bed inside dimensions)	48.0 x 49.8 x 10.9 in. (122 x 127 x 28 cm) (15.3 cubic feet)			
<b>Maximum payload capacity</b> (level surface only)	800 lb. (363 kg) High capacity option: 1050 lb. (476 kg)		800 lb. (363 kg)	
<b>Vehicle rated capacity</b> (payload, driver, and passenger; level surface only)	1200 lb. (544 kg) High capacity option: 1450 lb (658 kg)		1600 lb. (725.5 kg)	
<b>Maximum gross vehicle weight</b> (fully loaded vehicle, including accessories)	2750 lb. (1247 kg) High capacity option: 3012 lb. (1366 kg)		3350 lb. (1519.1 kg)	
<b>Standard seating capacity</b>	2		4	
LIQUID CAPACITIES				
<b>Engine (Kawasaki) crankcase with filter:</b> SAE 10W-30, API classification SJ	1 qt. and 19 oz. (1.5 L)		1 qt.and 19 oz. (1.5 L)	
<b>Engine crankcase with filter:</b> SAE 10W-30, API classification CF		3 qt. (2.8 L)		3 qt. (2.8 L)
<b>Front differential:</b> Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant	5 oz. (150 mL)			

SPECIFICATIONS	HUV 4421-G; HUV 4421- GXP	HUV 4421-D; HUV 4421- DXP	HUV 4421-GXL	HUV 4421- DXL
<b>Rear differential:</b> Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant	20 oz. (600 mL)			
<b>Transmission:</b> Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant	20 oz. (600 mL)			
<b>Engine coolant:</b> mixture of 55% propylene glycol and 45% water	n/a	2 gal. (7.8 L)	n/a	2.25 gal. (8.5 L)
<b>Brake fluid:</b> DOT 5 (silicone) brake fluid	8 oz. (240 ml)		17.9 oz. (530 ml)	
<b>Fuel tank:</b> unleaded gasoline	6.5 gallons (24.6 L)		6.5 gallons (24.6 L)	
<b>Fuel tank:</b> diesel grade no.2 with cetane rating of 45 or higher		6.5 gallons (24.6 L)		6.5 gallons (24.6 L)
<b>TIRE PRESSURE</b>				
<b>All-terrain tread and mud tires</b>	20 - 22 psi (1.38 - 1.52 Bars)			

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## WARRANTIES

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### HUSQVARNA® LIMITED TWO YEAR WARRANTY FOR 2008 TRANSPORTATION AND UTILITY VEHICLES

#### 1. WARRANTY:

Husqvarna, INC., ("Husqvarna") hereby warrants to the Original Retail Purchaser that its new 2008 Model Transportation and Utility Vehicles purchased from Husqvarna or an authorized dealer shall be free from defects in material and workmanship under normal use and service as a transportation or utility vehicle for the periods stated below, subject to the provisions, limitations and exclusions contained in this limited warranty.

**LIMITED TWO YEAR / 2000 HOUR WARRANTY:** The engine assembly, unitized transaxle assembly (gasoline vehicle), starter/generator (gasoline vehicle), motor, transaxle assembly (electric vehicle), main frame assembly, box bed hydraulic dump kit, Custom Cab assembly and doors, and Driving Range Protective Enclosure are warranted with respect to parts and labor against defects in material and workmanship for a period of two years or 2000 hours of operation, whichever first occurs, from the date of purchase.

**LIMITED ONE YEAR / 1000 HOUR WARRANTY:** All remaining components of the vehicle not specified otherwise, the Portable Refreshment Center, and all other original equipment options and accessories supplied by Husqvarna are warranted with respect to parts and labor against defects in material and workmanship for a period of one year or 1000 hours of operation, whichever first occurs, from the date of purchase.

This limited warranty covers material, workmanship and repair labor cost as to those items specifically listed above for the periods specified. Such repair labor shall be performed only by Husqvarna, its authorized dealers, or a service agency approved by Husqvarna.

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO HUSQVARNA AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

#### 2. EXCLUSIONS:

Excluded from any Husqvarna warranty are all fuses, filters, decals (except safety decals), spark plugs, light bulbs, lubricants, trim pieces, seats, routine wear items such as the charger plug and receptacle, brake shoes, belts, brushes, bushings, drive buttons, engine mounts, mats and pads, maintenance adjustments, cosmetic deterioration, and items which deteriorate or fail due to exposure or ordinary wear and tear. Batteries, battery charger, onboard computer, and solid-state speed controller are covered under separate Husqvarna warranties. Also excluded from any Husqvarna warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect.

Transportation expenses for warranty services are also excluded from this warranty.

#### 3. VOIDING OF WARRANTY:

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE HUSQVARNA SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE INVOLVED SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

#### 4. SOLE REMEDY:

Husqvarna's liability under this limited warranty, or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the repair or replacement, at Husqvarna's option, of the vehicle or component thereof that Husqvarna deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new vehicle or factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. If Husqvarna elects to repair the vehicle, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of Husqvarna.

5. **HOW TO MAKE A WARRANTY CLAIM:**

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized Husqvarna dealer.

6. **DISCLAIMER:**

**THIS LIMITED WARRANTY IS EXCLUSIVE. HUSQVARNA MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY HUSQVARNA AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND HUSQVARNA EXPRESSLY AGREE THAT THE REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. HUSQVARNA MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, OR DEALER OF HUSQVARNA HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.**

7. **NO CONSEQUENTIAL DAMAGES:**

**IN NO EVENT SHALL HUSQVARNA BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE VEHICLE, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.**

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

8. **INFORMATION:**

For further information contact WARRANTY SERVICES, HUSQVARNA FOREST & GARDEN, 7349 STATESVILLE ROAD, CHARLOTTE, NC 28269

9. **WARNING:**

Any modification or alteration of any vehicle beyond factory specifications, including those that affect the weight distribution, stability, or speed of the vehicle, can cause serious personal injury or death.

## CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

Your new Husqvarna ("Husqvarna") vehicle engine complies with both the U.S. EPA and State of California emission regulations. However, the use of gasoline powered golf cars in areas of California that do not attain the federal ozone standards is illegal. Please refer to the Air Resources Board information at <http://www.arb.ca.gov/enf/enf.htm> for compliance.

### YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The California Air Resources Board ("CARB") and Husqvarna are pleased to explain the emission control system warranty on your 2008 vehicle engine. In California, new small off-road engines (SORE) must be designed, built and equipped to meet the State's stringent anti-smog standards. Husqvarna must warrant the emission control system on the vehicle engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine. Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission-related assemblies. Where a warrantable condition exists, Husqvarna will repair your vehicle engine at no cost to you including diagnosis, parts and labor.

### MANUFACTURER'S WARRANTY COVERAGE:

This emission control system is warranted for two years. If any emission-related part on your equipment is defective, the part will be repaired or replaced by Husqvarna.

### OWNER'S WARRANTY RESPONSIBILITIES:

- As the vehicle engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Husqvarna recommends that you retain all receipts covering maintenance on your vehicle engine, but Husqvarna cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the vehicle engine owner, you should however be aware that Husqvarna may deny you warranty coverage if vehicle engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- You are responsible for presenting vehicle engine to a Husqvarna distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.
- If you have any questions regarding your warranty rights and responsibilities, you should contact WARRANTY SERVICES, HUSQVARNA FOREST & GARDEN, 7349 STATESVILLE ROAD, CHARLOTTE, NC 28269.

### HUSQVARNA EXPLANATION OF EMISSION CONTROL WARRANTY:

#### 1. WARRANTY:

Husqvarna warrants to the ultimate purchaser and each subsequent purchaser that the SORE or equipment is designed, built and equipped so as to conform with all applicable regulations; and free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in Husqvarnas application for certification. The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

#### 2. COVERAGE:

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

- (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Husqvarna according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
- (2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Husqvarna according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- (4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station\* at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.

(6) The engine or equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station\*.

(7) Husqvarna is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the engine or equipment warranty period stated above, Husqvarna will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of Husqvarna.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. Husqvarna will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part. \*Husqvarna, its authorized dealers, or a service agency approved by Husqvarna.

#### ITEMS COVERED BY THIS WARRANTY:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if Husqvarna demonstrates that the engine or equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

SYSTEMS COVERED	PARTS DESCRIPTION
Fuel Metering	Carburetor assembly, fuel injection pump, fuel injection nozzle, fuel regulator
Exhaust	Catalytic Converter, Exhaust Manifold
Air Induction	Air filter housing, air filter*, crankcase breather tube
Ignition	Flywheel magneto, ignition pulse generator, ignition coil assembly, ignition control module, spark plug cap, spark plug*
Positive Crankcase Ventilation (PCV) System	PCV valve, oil filler cap
Evaporative System	Fuel Tank, Fuel Cap, Fuel Lines, Fuel Line Fittings, Clamps, Pressure Relief Valves, Purge Valves, Vapor Hoses, Carbon Canister, Canister Mounting Brackets, Carbon Canister Purge Port Connector
Misc. Parts	Belts, hosing, tubing, fittings, seals, gaskets, clamps, and switches associated with the above systems

Emission-related parts will vary between vehicles; therefore, certain vehicles may not include all of the listed parts or may include equivalent parts.

#### 3. EXCLUSIONS:

Excluded from this warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect. This warranty covers only those failures resulting from defects in material or workmanship.

Transportation expenses for warranty services are also excluded from this warranty.

#### 4. VOIDING OF WARRANTY:

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE HUSQVARNA SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE INVOLVED SHOWS INDICATIONS THAT REASONABLE OR



NECESSARY MAINTENANCE AS OUTLINED IN THE OWNERS MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

**5. NO CONSEQUENTIAL DAMAGES:**

In no event shall Husqvarna be liable for any incidental or consequential damages including, but not limited to, loss related to property other than the vehicle, loss of use, loss of time, inconvenience, or any other economic loss. This warranty is applicable only where the California or U.S. EPA emission control system warranty regulation is in effect.

**6. HOW TO MAKE A WARRANTY CLAIM:**

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized Husqvarna dealer or send the defective component, freight prepaid, to WARRANTY SERVICES, HUSQVARNA FOREST & GARDEN, 7349 STATESVILLE Road, Charlotte, NC 28269.

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO HUSQVARNA AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

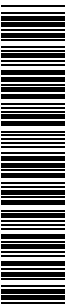




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