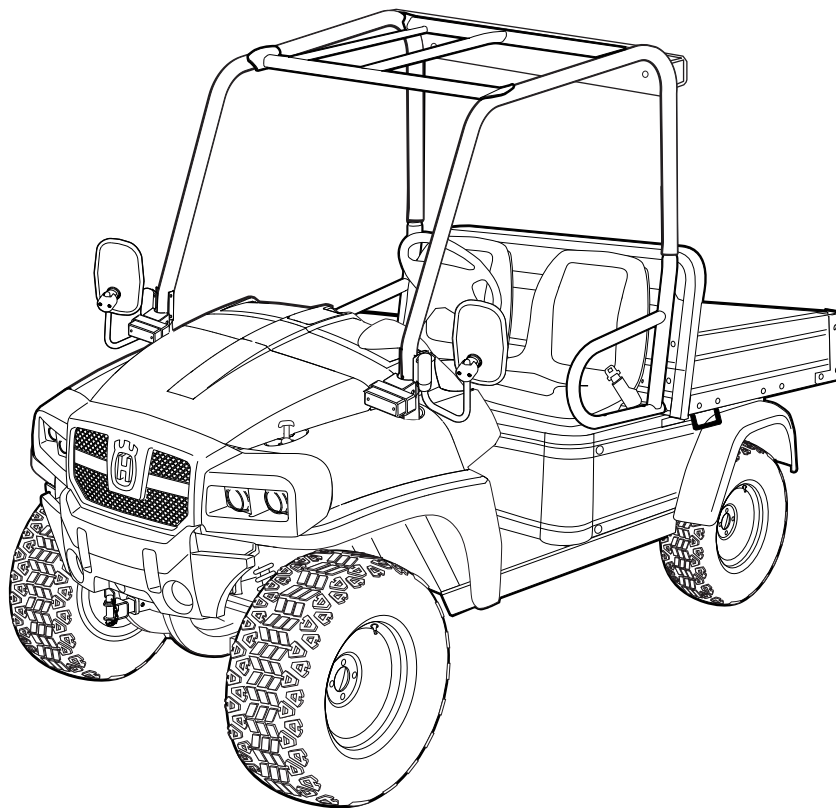




HUV 5420 DX_R Homologated Diesel Vehicle for Europe Owner's Manual

[Refer to back cover for applicable build code range]



NOTICE

This manual is valid for vehicles manufactured in the build code range provided on the back cover of this manual. If the vehicle build code is different from that shown on the back cover of this manual, please contact your nearest dealer or go to www.husqvarna.com to retrieve the proper owner's manual for the vehicle. See also Model Identification in this manual.

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. No other warranties, express or implied, are contained herein.

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.

Husqvarna reserves the right to make design changes to vehicles without obligation to make these changes on units previously sold.

If in English, this manual is the Original Instructions provided by the manufacturer. If in any language other than English, this manual is a translation of the Original Instructions.



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FOREWORD

Thank you for choosing Husqvarna, the name most widely recognized as the industry leader in vehicle efficiency and long-lasting value. You have chosen the finest utility vehicle on the market. Please protect your investment and ensure that your Husqvarna vehicle(s) 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 your Husqvarna vehicle needs repairs or service, please contact your local authorized Husqvarna dealer or distributor; he will be able to provide technical advice, perform warranty work, and sell parts and service manuals.

For the name and address of the authorized Husqvarna dealer or distributor nearest you, logon to our web site at www.husqvarna.com.

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.

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SAFETY DECAL AND FEATURE IDENTIFICATION

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

HUSQVARNA HUV 5420 DX_R HOMOLOGATED DIESEL VEHICLE

⚠ 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

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

⚠ WARNING

CAN CAUSE SEVERE BURNS

Hot Surface

CCI 102458901

⚠ WARNING

CAN CAUSE SEVERE INJURY

HOT manifold

KEEP CLEAR

CCI 102459001

⚠ 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.

⚠ WARNING

CAN CAUSE SEVERE INJURY

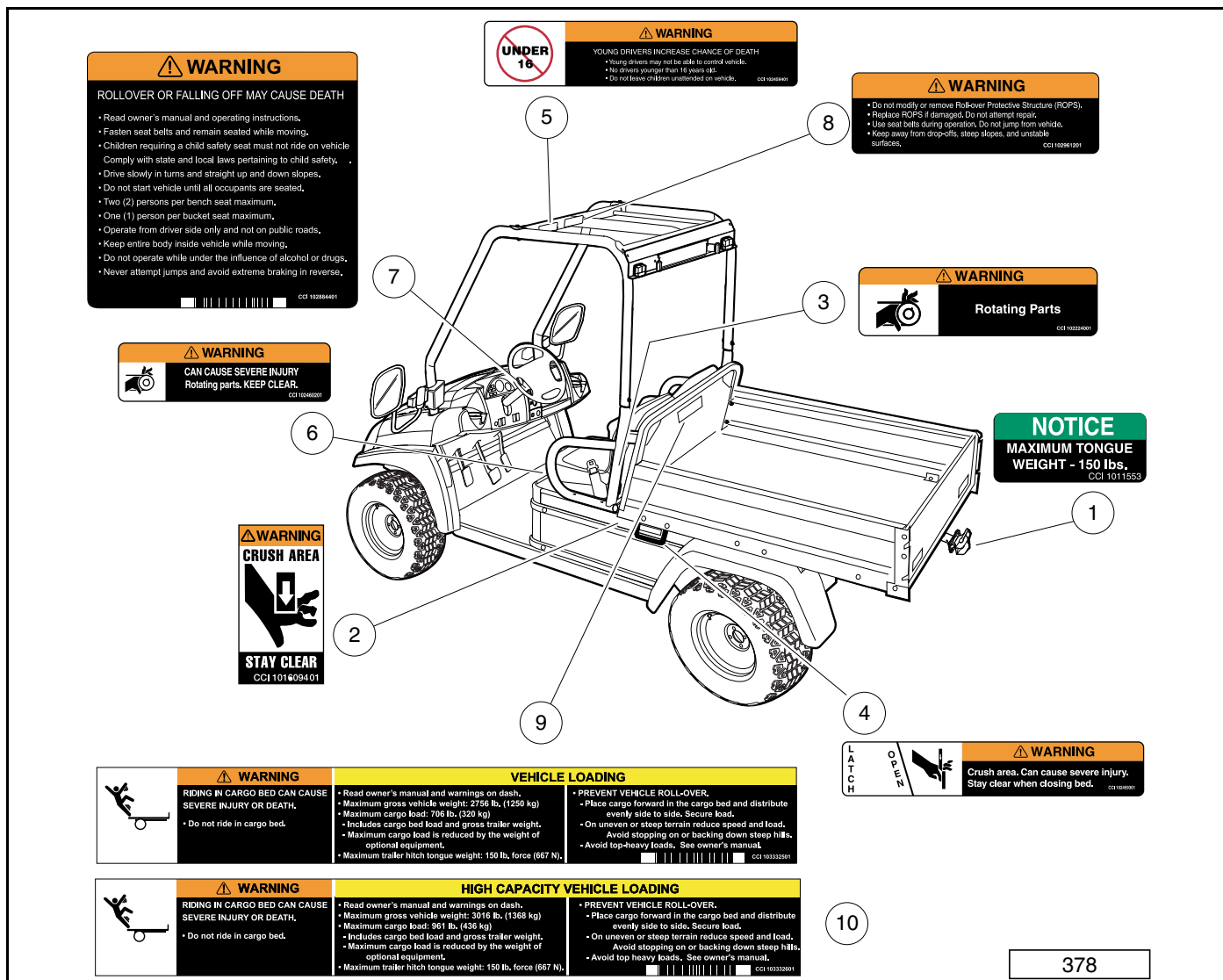
Hot manifold and muffler, KEEP CLEAR.

CCI 102459501

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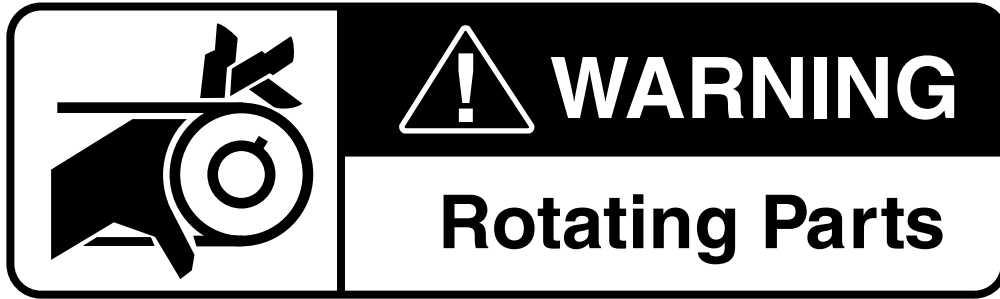
1	102458901	Decal, Hot Surface Warning (on coolant pipes and underside of seats) (on bed seal)	4	102459201	Decal, Diesel Fuel Warning (on frame, near fuel tank)
2	102459001	Decal, Hot Manifold Warning (on engine, near manifold)	5	102459501	Decal, Rotating/Hot Parts Warning (on frame near battery)
3	102459101	Decal, Ground Warning (on vehicle frame, near battery)	6	102884301	Decal, Operating Instructions (on instrument panel)

HUSQVARNA HUV 5420 DX_R HOMOLOGATED DIESEL VEHICLE



1	1011553	Decal, Trailer Hitch Tongue Weight Notice (on trailer/receiver hitch)	6	102460201	Decal, Rotating Parts Warning (on vehicle body, under seat)
2	101609401	Decal, Crush Area Warning (behind seat, near cargo bed)	7	102884401	Decal, Rollover Warning (on instrument panel)
3	102224001	Decal, Rotating Parts Warning (on frame)	8	102961201	Decal, ROPS Warning (on ROPS)
4	102459301	Decal, Bed Latch Warning (on vehicle body, below bed latch)	9	103332501	Decal, Vehicle Loading Instructions (on cargo bed)
5	102459401	Decal, Young Driver Warning (on ROPS)	10	103332601	Decal, Vehicle Loading Instructions (on cargo bed)

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.

SAFETY DETAILS

WARNING

- 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.
- The homologated diesel vehicle is equipped to operate at a top speed of 25 mph (40 km/h) and is intended for use as a low-speed vehicle.

WARNING

WHEN OPERATING VEHICLE ON PUBLIC ROADS

- **THIS VEHICLE OFFERS MUCH LESS CRASH PROTECTION THAN A REGULAR CAR, VAN, OR TRUCK. THIS MEANS A HIGHER RISK OF INJURY OR DEATH IN COLLISIONS, EVEN AT LOW SPEEDS.**
- The higher the speed of the traffic around you, the higher the risk of injury.
- To reduce these risks:
 - Avoid roads with regular traffic, even if the speed limit is low.
 - Whenever possible, stay on roads and lanes limited to low-speed vehicles.
 - Wear your seat belts at all times.
 - Avoid operating vehicle at night, because your vehicle may be difficult for others to see.
 - Never drink and drive.
 - To help avoid rollovers, **SLOW DOWN BEFORE MAKING SHARP TURNS.**

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

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

WARNING

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

CAUTION

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

CAUTION

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

GENERAL WARNINGS

The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. **See Safety Decal and Feature Identification on page 4.** 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.**
- **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.**
- **The vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving a Husqvarna 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.**
- **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 seat 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**

WARNING CONTINUED ON NEXT PAGE

▲ WARNING

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. See *Disconnecting the Battery – Diesel Vehicles* on page 9.
- 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.

DISABLING THE VEHICLE

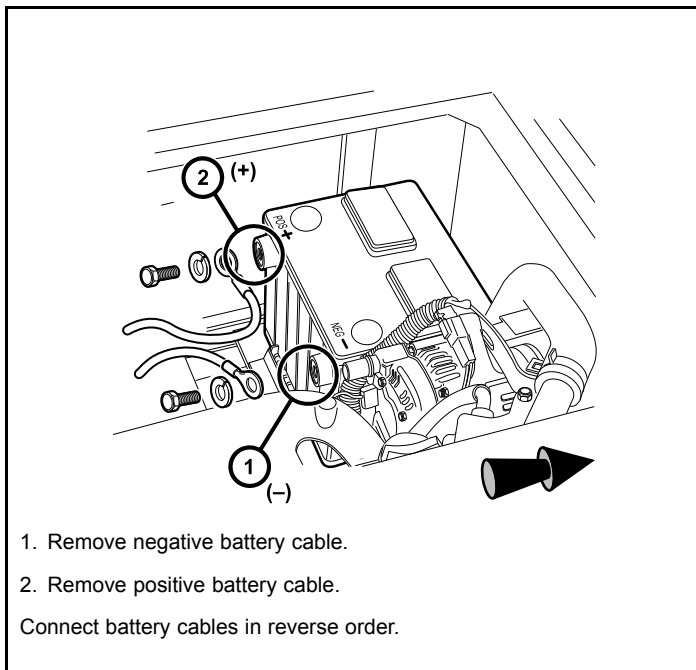
1. Set the park brake.
2. Turn the key switch OFF and remove the key.
3. Place the Forward/Reverse control in the NEUTRAL position.
4. In addition, chock the wheels if servicing or repairing the vehicle.

DISCONNECTING THE BATTERY – DIESEL VEHICLES

1. Disable the vehicle. See *Disabling the Vehicle* on page 9.
2. Disconnect the battery cables, negative (–) cable first, as shown (**Figure 2**).

CONNECTING THE BATTERY – DIESEL VEHICLES

1. Connect the battery cables, positive (+) cable first.
2. Tighten battery terminals to 80 in-lb (9 N·m).
3. Coat terminals with Battery Terminal Protector Spray (P/N 603 00 00-03) to minimize corrosion.



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Figure 2 Battery Cable Removal



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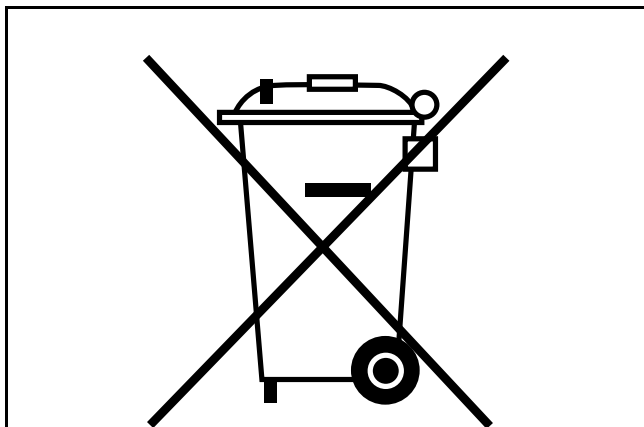
Figure 3 All-Wheel Drive Warning

RECYCLING LEAD-ACID BATTERIES

⚠ WARNING

- **Lead-acid batteries contain lead (Pb), other metals, acids and other compounds. If improperly handled, they can contaminate both water and soil, causing environmental damage and personal injury.**

Lead-acid batteries are identified by the symbol shown below and should be properly recycled (**Figure 4**). They cannot be disposed as municipal waste and must be collected separately. Responsibility for environmental protection must be shared, not only by the manufacturers of the batteries, but by people who use the batteries as well. Please contact your nearest Husqvarna dealer or distributor for information on how to properly recycle your batteries.



1403

Figure 4 Dispose of Lead-acid Batteries Properly


GENERAL INFORMATION

This homologated vehicle is designed for operation on public roads. Its construction also allows operation on rough terrain with inclines not exceeding 20%.

This manual includes operating procedures, maintenance, and regular servicing information for the Husqvarna HUV 5420 DX_R vehicles that have been homologated for Europe.

MODEL IDENTIFICATION

The vehicle identification number (**Figure 5**) is located on the center cross bar underneath the bed at the rear of the car. **See following NOTE.**

INGERSOLL RAND, CLUB CAR INC.	
Type: TT	Total permissible mass (*): 1250 to 1368 kg Permissible front axle load: 590 kg Permissible rear axle load: 1030 kg Permissible unbraked towable mass: 797 kg Independently-braked towable mass: 797 kg Inertia-braked towable mass: 797 kg Towable mass fitted with an assisted braking system (hydraulic or pneumatic): Not Applicable
EC number: e 11*2006/96*0017	(*) Depending on capacity option. Assembled in the United States of America
Identification number 5J5TT34A14A000001 	

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Figure 5 Vehicle Identification Number Decal

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

Build Code: The build code (4) is a five-digit number that appears on the vehicle serial number decal (**Figure 6**). The build code exists to enable the user to identify the correct owner’s manual for a vehicle. This owner’s manual is valid for the build code range indicated on the back cover of this owner’s manual.



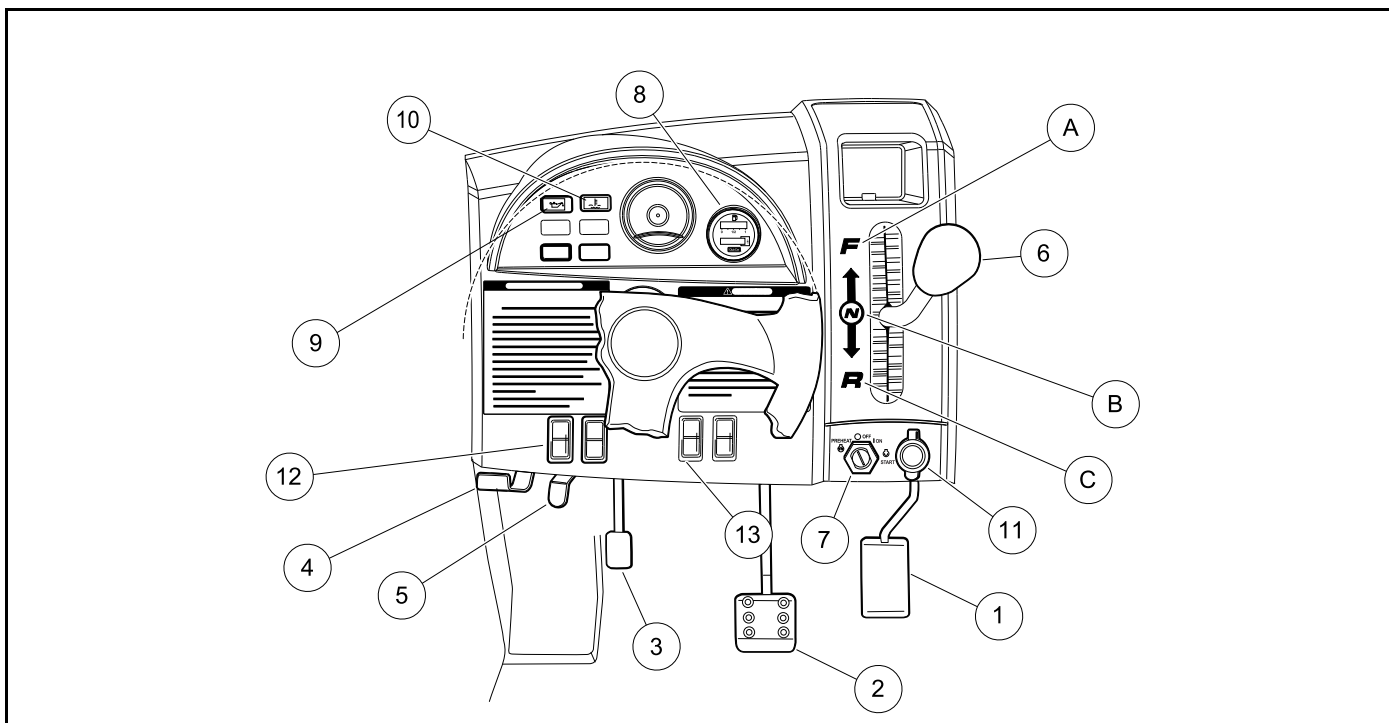
1400
Figure 6 Serial Number Decal with the Vehicle Build Code

CONTROLS AND INDICATORS

See General Warnings on page 8.

⚠ 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, place attachment on the ground, 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 7 Instrument Panel

1. Accelerator Pedal	6. Forward/Reverse Handle	11. 12-volt Accessory Outlet
2. Brake Pedal	7. Key Switch	12. Headlight/Taillight Control
3. Park Brake Pedal	8. Fuel Gauge Meeting	13. Electric Bed Lift Switch
4. Park Brake Release Handle	9. Low Oil Warning Light	14. Turn Signal Indicator Lights
5. Steering Adjustment Lock Lever	10. High-Temperature Warning Light	

⚠ 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

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

Use the PREHEAT feature if the temperature falls below -5°C (23°F). 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 7**). 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 preceding WARNING and CAUTION.**

Husqvarna vehicles operate at a reduced speed in reverse. 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 7**).

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 preceding WARNING and CAUTION.**

BRAKE PEDAL

The brake pedal (2) is located to the immediate left of the accelerator pedal (**Figure 7**). To slow or stop the vehicle, press the brake pedal.

BRAKE LIGHTS

The brake lights illuminate when the brake pedal is pressed. When the park brake is engaged, the brake lights will turn off. **See following NOTE.**

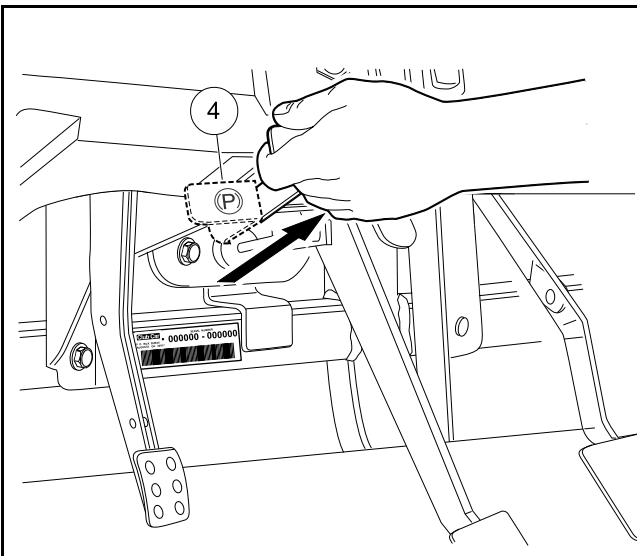
NOTE: When the key switch is in the OFF position, the brake lights are disabled.

PARK BRAKE

The park brake pedal (3) is located to the left of the brake pedal (**Figure 7**). 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 8**). **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 8 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 7**). 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 7**). 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 7**). 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

- **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 7**). 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 29.**

HEADLIGHT/TAILLIGHT CONTROL

The headlight/taillight control (12) is located on the left side of the instrument panel (**Figure 7**). 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.*

TURN SIGNAL

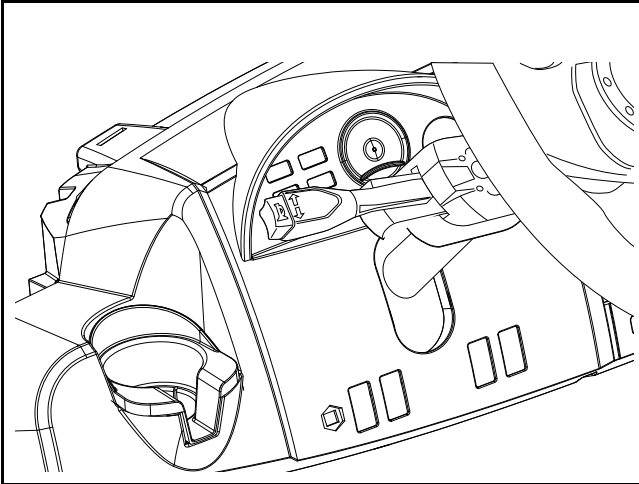
There are two turn signal indicator lights (14) on the instrument panel (**Figure 7**). The upper symbol indicates the turn direction for the vehicle; the lower symbol indicates the turn direction for an attached trailer.

The turn signal control (1) is mounted on the steering column (**Figure 9**). Move the handle up to indicate a right-hand turn. Move the handle down to indicate a left-hand turn. Return the handle to the center position after completing a turn.

NOTE: *If the turn signal light burns out, the indicator light on the instrument panel will flash at twice the normal speed.
If an attached trailer's turn signal light burns out, the indicator light will not flash.*

HORN

The horn button (3) is located on the end of the turn signal handle (**Figure 9**). Press the button in to sound the horn.



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Figure 9 Turn Signal and Horn Controls

ELECTRIC BED LIFT

The electric bed lift switch (13) is located on the instrument panel to the left of the key switch (**Figure 7**). To lift the bed, pull up and hold the toggle switch in the upper position. Release switch to stop lifting operation. To close the bed, press down and hold switch in the lower position. The bed lift will make a loud clicking sound to signal the bed is in the rest position.

HAZARD LIGHTS

The hazard light switch (2) is located behind the turn signal handle (**Figure 9**). To activate the hazard lights, make sure that the turn signal handle is in the center (off) position, then pull the switch marked "HAZARD" until it is locked in place. To deactivate the hazard lights, move the turn signal handle in either direction and return it to the center position.

HIGH-TEMPERATURE WARNING LIGHT

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 7**). 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 a Husqvarna 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

This Husqvarna HUV 5420 DX_R vehicle is 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.**

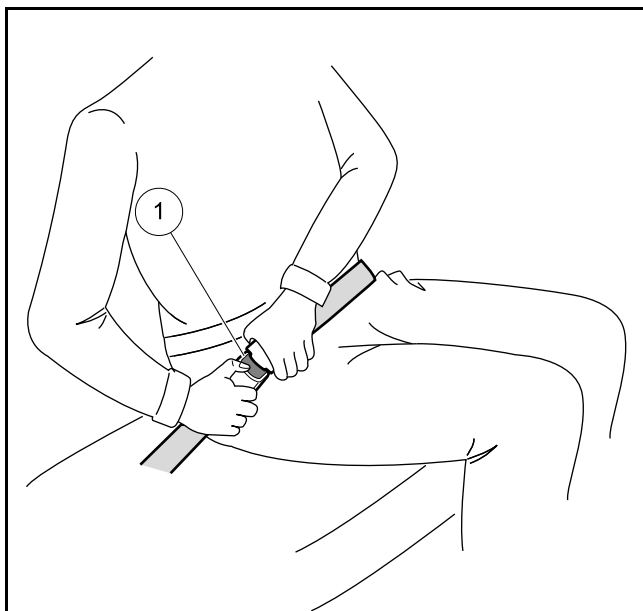
Pregnant woman: Consult your doctor for specific recommendations. The seat belt should be worn securely and as low as possible over the hips and not on the waist.

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

To secure the seat belt, sit up straight and well back in the seat. Pull the seat 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 seat 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 seat belt, press the buckle release button (1) and allow the belt to retract (**Figure 10**). 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.



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Figure 10 Release Seat Belt

▲ 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.**

WARNING CONTINUED ON NEXT PAGE

WARNING

- 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 seat 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 seat belt snug and positioned as low on the hip bone as possible.
- Use a single seat belt for one person at a time. Do not use a single seat belt for two or more people – this includes children.
- No more than one person per bucket 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 seat belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.
- The Husqvarna 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 seat belt webbing or hardware.
- Inspect the seat 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 seat belt does not function normally, contact your dealer/distributor or trained technician immediately. Do not occupy the seat until the seat belt is repaired.

DRIVERS SIDE SEAT CONTROLS

Drivers Side Seat Adjustments

Use the position adjustment lever (1) to move the seat closer to or farther from the steering wheel (**Figure 11**). To adjust the seat position, sit in the driver seat and raise the position adjustment lever. Slide the seat either forward or backward until it reaches the desired position, then return the lever to its original position.

The height adjustment knob (2) enables you to modify the seat height. Use the seat height adjustment together with the seat tension adjustment until the seat feels comfortable.

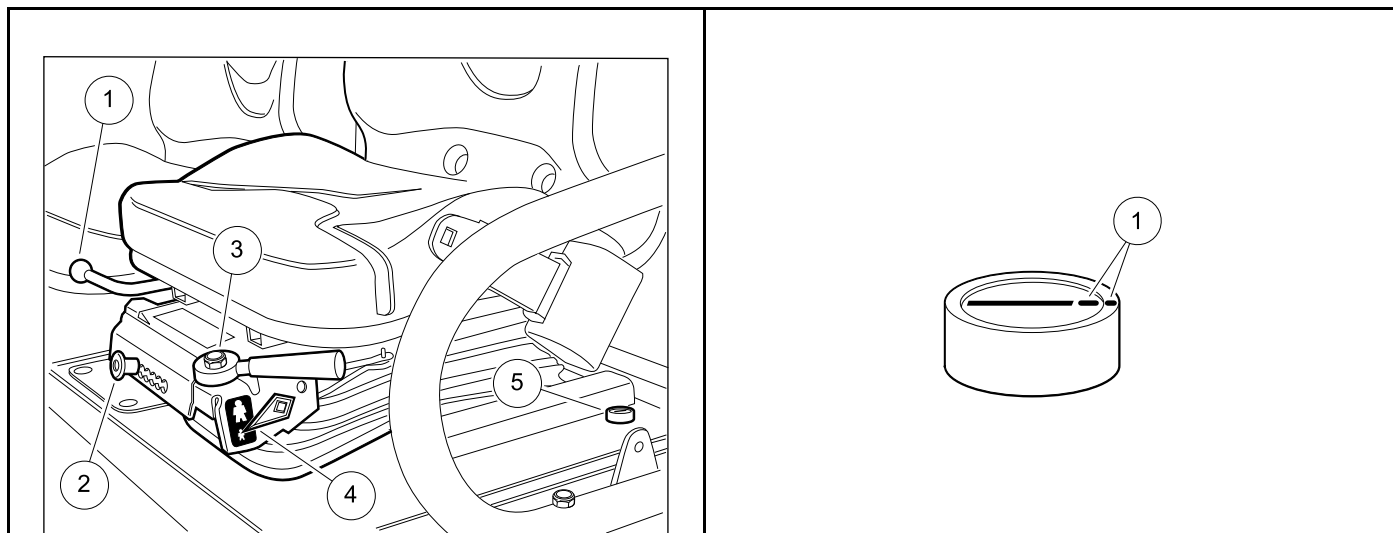
To adjust the seat height, sit in the driver seat and pull out the adjustment knob (2). Move the knob toward the shorter indicator to lower the seat height or toward the taller indicator to raise the seat height.

Seat tension controls how firm or soft the ride feels to the driver. Increasing seat tension results in a firmer ride; decreasing tension results in a softer ride.

Use the tension adjustment lever (3) to adjust the seat tension. Pull out the tension adjustment handle (3), rotate the handle to the plus (+) sign to increase tension or the minus (-) sign to decrease tension, and release the handle. Firmly grasp the handle and move it from side to side to modify the tension adjustment. The tension indicator (4) moves closer to the larger person when tension is increased and closer to the smaller person when tension is decreased. **See following NOTE.**

NOTE: Use care to avoid excessively decreasing seat tension. Excessive adjustment will cause the adjustment bolt to disengage from its bracket, and the adjustment handle will not function properly.

If the adjustment bolt becomes disengaged from its bracket, it must be hand-threaded back into the bracket.



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Figure 11 Driver Seat Adjustments

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Figure 12 Fully Engaged Seat Lock

Seat Locks

Three locks (5) secure the driver seat to the vehicle. These locks must be disengaged to access the driver side engine compartment. All three seat locks must be fully and securely engaged before operating the vehicle. **See following WARNING.**

▲ WARNING

- **Securely engage all seat locks before the vehicle is returned to operation. Failure to engage all seat locks can result in ejection of the driver seat during vehicle operation and severe personal injury or death.**

To release the seat, all three locks must be released. Slide the driver seat as far forward as possible. **See Drivers Side Seat Adjustments on page 18.** Use a flat-head screwdriver to turn each lock counterclockwise a full half-turn. The first quarter turn separates the lock latch from the ROPS seat support, and the second quarter turn rotates the latch away from the seat support. **See following NOTE.**

NOTE: Raising the cargo bed can further improve access to the seat locks.

To engage the seat locks, turn each lock a full half-turn clockwise. Verify that the notches (1) on each lock are aligned to ensure the locks are securely engaged (**Figure 12**). **See previous WARNING.**

PRE-OPERATION AND DAILY SAFETY CHECKLIST

Each Husqvarna 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 20 and the Periodic Service Schedule on page 29 to ensure that the vehicle is in proper working condition. Any problems should be corrected by a Husqvarna 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 4.**
- **ROPS:** Check to ensure the ROPS is not damaged and all hardware is secure. **See Roll-Over Protective Structure and Seat Belts on page 17.**
- **Seat belts:** Visually inspect for cuts, fraying, and loose parts. **See Roll-Over Protective Structure and Seat Belts on page 17.**
- **Tires:** Check for proper tire pressure. Visually inspect tires for wear, damage, and proper inflation on a daily basis. **See Vehicle Specifications on page 48.**
- **Battery:** Check electrolyte to ensure it is at the proper level (**Figure 30**). 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 33.** Check air filter and replace if necessary.
- **Fuel:** Check fuel level. **See Fueling Instructions on page 41.** Check fuel tank, lines, fuel cap, pump, and fuel filters for fuel leakage. Drain water from the fuel filter. **See Draining Water from Fuel Filter on page 42.**
- **Exhaust system:** Check for leaks.
- **Hydraulic brakes:** Check fluid level. Fill with DOT 5 brake fluid only. **See Brake Fluid Reservoir on page 33.** 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 20.**

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 Husqvarna dealer/distributor or a trained technician.

- **Forward/Reverse shifter:** Check for proper operation. **See Controls and Indicators on page 12.**
- **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:** 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. The vehicle operates at 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 Husqvarna 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. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat 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 Husqvarna 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.
- 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 seat 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.

WARNING CONTINUED ON NEXT PAGE

WARNING

- 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.
- 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. Start the vehicle.
 - 8.1. 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 7**). The engine must be at idle before the shift handle is moved. A 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

The Husqvarna HUV 5420 DX_R features 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

- 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

- 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.

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 24 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

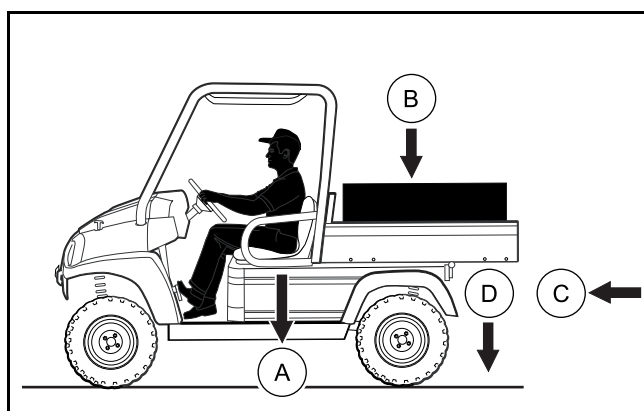
The maximum gross vehicle weight is the combination of the vehicle weight and the maximum vehicle capacity. The stated maximum gross vehicle weight must not be exceeded to maintain safe vehicle operation.

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 13 for the following specifications.

	Husqvarna HUV 5420 DX _R Diesel Vehicles	Husqvarna HUV 5420 DX _R Vehicle with High Capacity Option
A: Maximum occupant capacity	400 lb. (181 kg)	400 lb. (181 kg)
B + C: Maximum payload capacity	706 lb. (323 kg)	961 lb. (436 kg)
D: Trailer tongue weight	150 lb. force (667 N)	150 lb. force (667 N)
A + B + C: Maximum vehicle capacity	1106 lb. (504 kg)	1361 lb. (617 kg)
A + B + C + Vehicle Weight: Maximum gross vehicle weight	2756 lb. (1250 kg)	3016 lb. (1368 kg)



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Figure 13 Vehicle Load Capacity – Two-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 Husqvarna vehicle or a trailer can have adverse effects on vehicle handling. Be especially cautious when towing other equipment with a Husqvarna vehicle. **See Vehicle Load Capacities on page 24 for vehicle capacities.**

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

- Do not allow riders in the 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 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.
- Do not tow a Husqvarna 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

See General Warnings on page 8.

⚠ 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.
- 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.

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 45.
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. **If Biodiesel fuel is used, see Biodiesel Fuel on page 41.** Prepare the fuel tank.
 - 4.1. Fill the fuel tank with fresh fuel.
 - 4.2. Disconnect the fuel vent line from the fuel tank vent nipple (**Figure 27**).
 - 4.3. Plug the fuel tank vent nipple so that it is air tight. Husqvarna recommends using a slip-on vinyl cap.
5. Change engine oil. **See Engine Oil and Filter Change on page 34.**
6. Disconnect battery. **See Disconnecting the Battery – Diesel Vehicles on page 9.**
7. 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).
8. Adjust the tires to the recommended tire pressure. **See Vehicle Specifications on page 48.**
9. Perform semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 32.**
10. Thoroughly clean the front body, rear body, seats, cargo bed, engine compartment, and underside of vehicle.
11. 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 27**).
 - 2.1. Remove the plug from the fuel tank vent.
 - 2.2. Connect the vent tube to the fuel tank vent.
3. Connect battery. **See Connecting the Battery – Diesel Vehicles on page 9.** Coat terminals with Battery Terminal Protector Spray (P/N 603 00 00-03).
4. 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.
5. Perform the Pre-Operation and Daily Safety Checklist on page 20 and the Performance Inspection on page 20.

MAINTENANCE

See General Warnings on page 8.

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 20, the Performance Inspection on page 20, 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 Husqvarna 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.**
- **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.**
- **To avoid unintentionally starting the vehicle, disconnect battery. See Disconnecting the Battery – Diesel Vehicles on page 9.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- 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 8.

⚠ 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, these preventive maintenance procedures should be performed more often than recommended in the Periodic Service and Lubrication Schedules.*

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 or trained technician	Pre-Operation and Daily Safety Checklist	See Pre-Operation and Daily Safety Checklist on page 20.
	Performance Inspection	See Performance Inspection on page 20.
	Engine	Check engine oil level; add if necessary. See Engine Oil Level Check on page 34.
		Check engine coolant; add if necessary. See Engine Coolant Level Check on page 39.
	Fuel filters	Drain water from fuel filter. See Draining Water from Fuel Filter on page 42.
Brakes	Check brake fluid; add if necessary. Check brake pedal for proper operation. See Performance Inspection on page 20.	
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. Check for grass and debris around the radiator.
	Tires	Check air pressure and adjust if necessary. See Vehicle Specifications on page 48.
	Transmission and differentials	Check lubricant levels. Add if necessary. See Lubrication Level Check for Front Differential, Transmission, and Rear Differential on page 38.
	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 44 .
	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 damages
	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 20. See also Brake System Section in the appropriate maintenance and service manual.

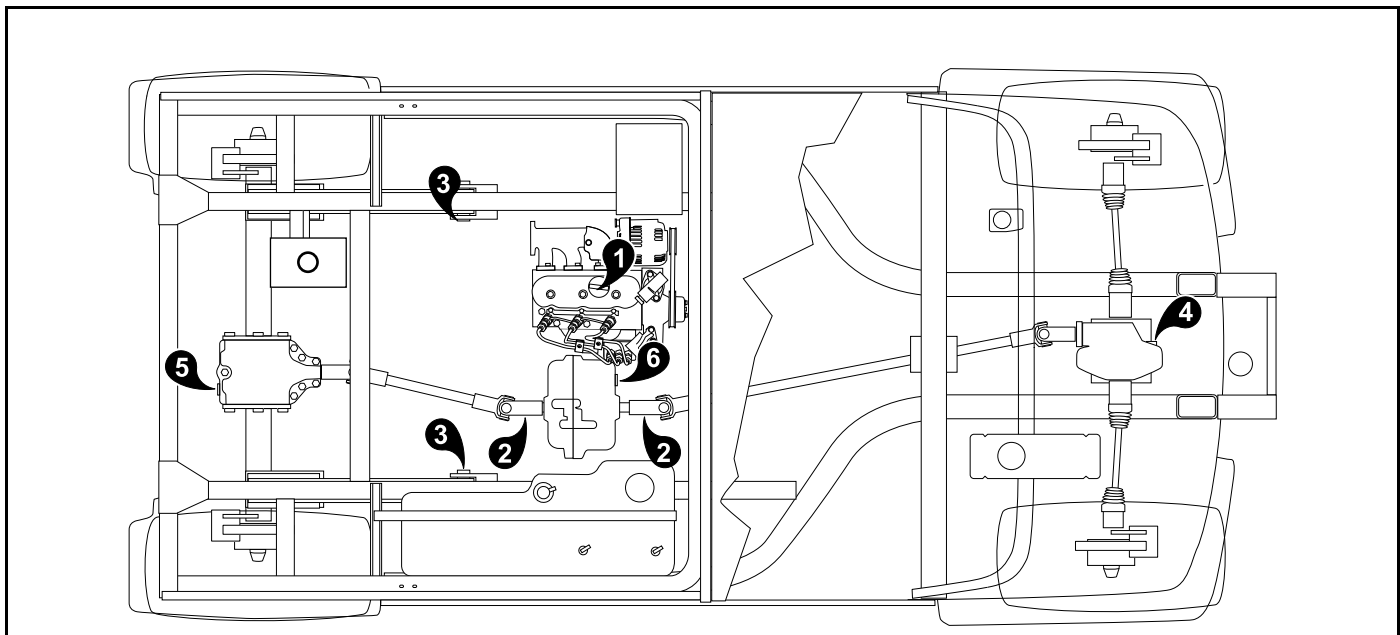
PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	SERVICE	
Annual service by trained technician only (or every 100 hours of operation, whichever comes first)	Engine	Check for leaks around gaskets, fill plugs, etc.
		Check the v-belt for proper tension or damage. Adjust or replace if necessary.
		Change engine coolant. See Radiator and Cooling System Section in the maintenance and service manual.
	Radiator	Check clamps for tightness; check hose for cracks.
	Engine air intake system	Replace air filter element. See Air Intake System on page 40.
		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.

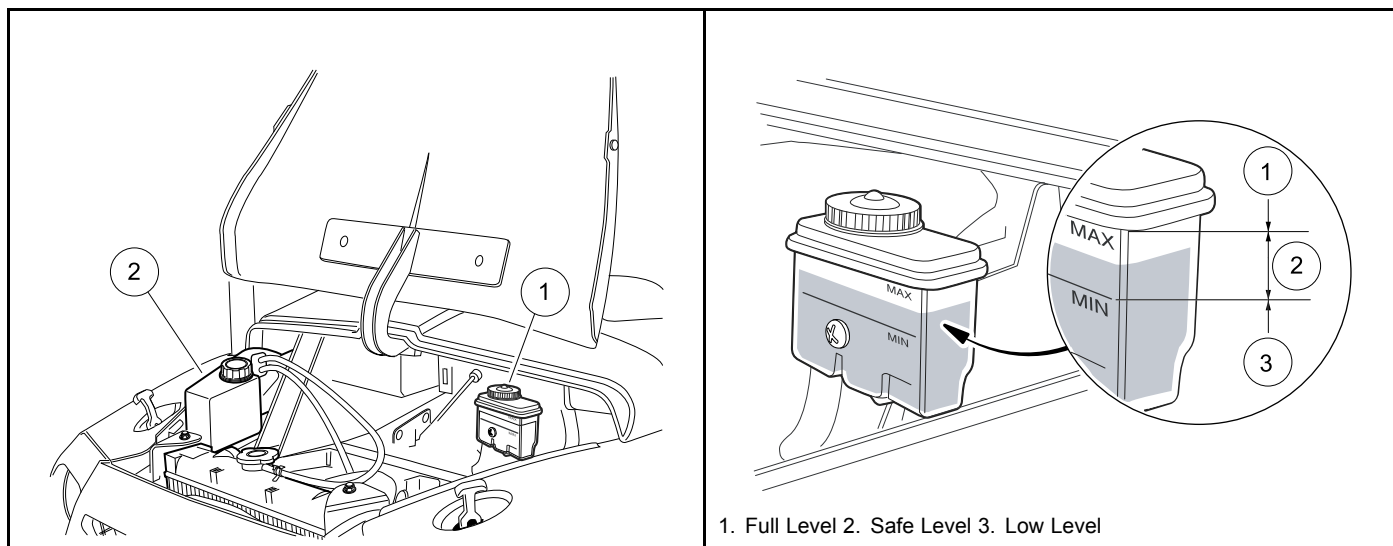
PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE			
REGULAR INTERVAL	SERVICE	LUBRICATION POINTS	RECOMMENDED LUBRICANT
First change 50 hours – additional change for both every 100 hours of operation or annually, whichever comes first.	Change engine oil and oil filter	1	3 qt. (2.8 L) with filter. See Oil Viscosity on page 37.
Monthly by owner or trained technician	Driveshaft	2	Chassis Lube (EP NLGI Grade 2)
Semiannually by owner or trained technician (or every 50 hours of operation, whichever comes first)	Rear suspension (2 fittings)	3	Chassis Lube (EP NLGI Grade 2)
First change 50 hours – additional change every 100 hours of operation or annually, whichever comes first	Change front differential lubricant	4	5 oz. (150 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant
First change 50 hours – additional change every 300 hours of operation or annually, whichever comes first	Change rear differential lubricant	5	20 oz. (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant
	Change transmission lubricant	6	20 oz. (600 mL) Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant



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Figure 14 Lubrication Points

BRAKE FLUID RESERVOIR



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Figure 15 Brake Fluid and Coolant Access

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Figure 16 Brake Fluid Reservoir

The brake fluid reservoir (1) is located under the hood (**Figure 15**). 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 16**). 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.

ENGINE OIL

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.

ENGINE OIL LEVEL CHECK

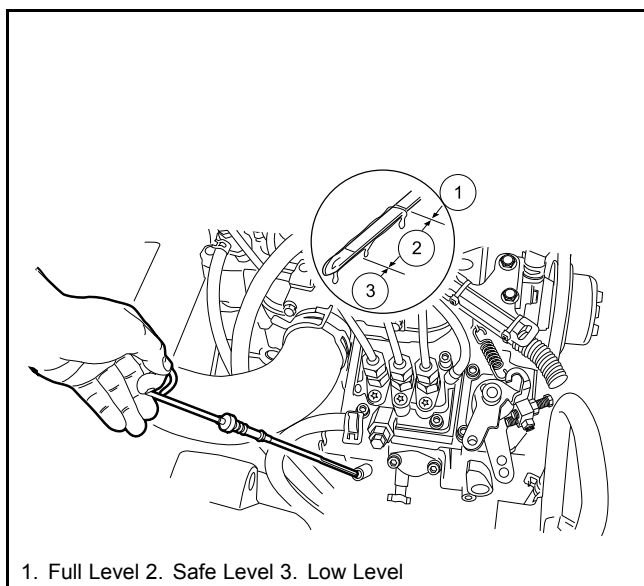
1. Remove the oil level dipstick from the oil filler tube and wipe oil from the dipstick (**Figure 17**). **See following CAUTION.**

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.**



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Figure 17 Engine Oil Level Check

ENGINE OIL AND FILTER CHANGE

Engine oil and oil filter should be changed after the first 50 hours of operation (diesel). After that, they should be changed every 100 hours of operation or annually, whichever comes first.

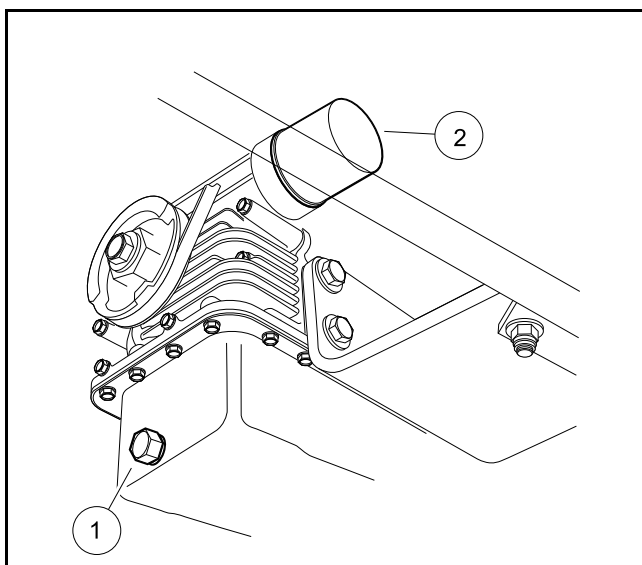
Engine Oil Draining

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 battery. **See Disconnecting the Battery – Diesel Vehicles on page 9.**
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 18**).

- 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.**
- Clean the oil drain plug threads with solvent to remove oil and oil residue. Make sure that the compression washer remains on the drain plug. Inspect the compression washer and replace if necessary.
 - Use a socket or wrench to replace the oil drain plug (1) (**Figure 18**). Turn the plug clockwise and tighten to 31 ft-lb (42 N·m).



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Figure 18 Engine Oil Drain Plug and Oil Filter – Diesel Vehicles

Engine Oil Filter Change

- Drain the engine oil. **See Engine Oil Draining on page 34.**
- Place the oil drain pan under the engine oil filter (2) (**Figure 18**).
- 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.**

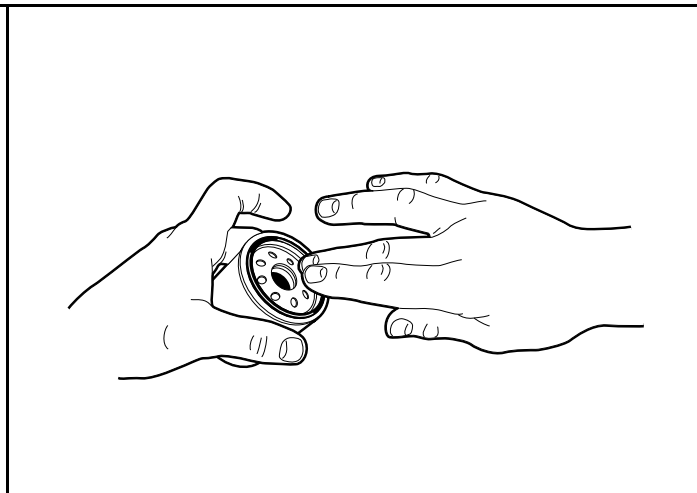
NOTE: An oil drip guard (1) can be used to prevent excess oil from dripping onto the engine base plate (**Figure 19**). Use an empty quart (one liter) container and cut the bottom off at an angle, then slide the open area of the container up and under the oil filter (2) before removal. Position the port 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 19 Remove Engine Oil Filter



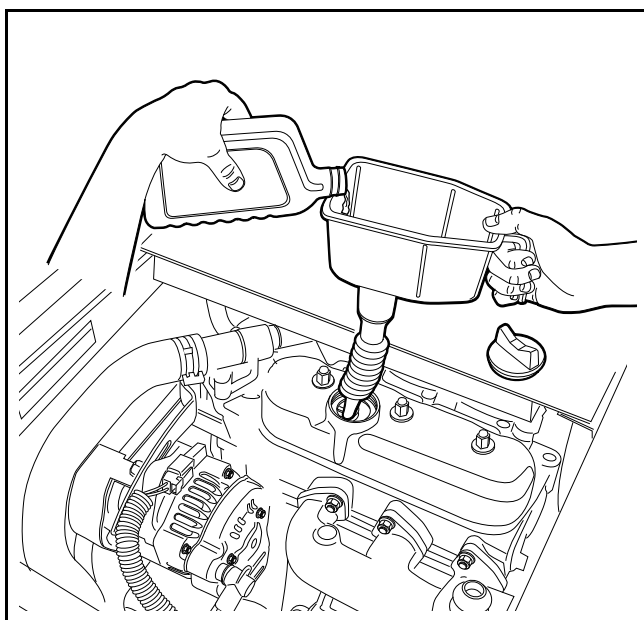
27

Figure 20 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 20**). Install the new oil filter (P/N 603 00 00-41) onto the engine oil filter port. **See following NOTE.**

NOTE: Use only Husqvarna 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 21 Add Engine Oil

Engine Oil Filling

1. Add engine oil; use a funnel or pour spout to direct the oil into the opening (**Figure 21**). With filter change, the engine requires 3 qt. (2.8 L) of oil. Refer to oil viscosity guidelines for selection of oil grade (**Figure 22**). See following **CAUTION**.

CAUTION

- Do not exceed recommended oil capacity. Doing so will decrease engine performance or result in damage to the engine.
2. Connect battery. See **Connecting the Battery – Diesel Vehicles on page 9**.
 3. 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.

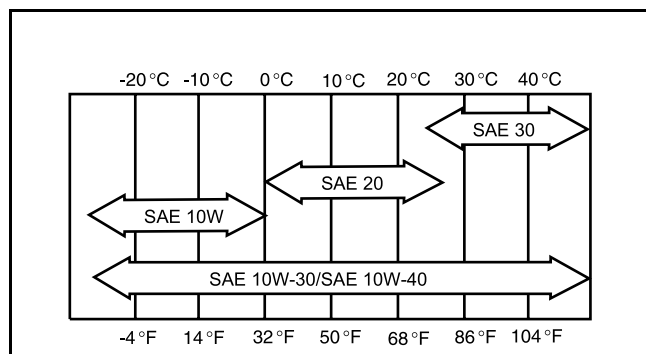
4. Remove the dipstick and check the engine oil as a final step. Replace the dipstick.

OIL VISCOSITY

Choose the viscosity according to the temperature as shown in the appropriate oil viscosity chart (**Figure 22**). See following **NOTE**.

NOTE: Use engine oil with API classification CF for diesel engines.

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



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Figure 22 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

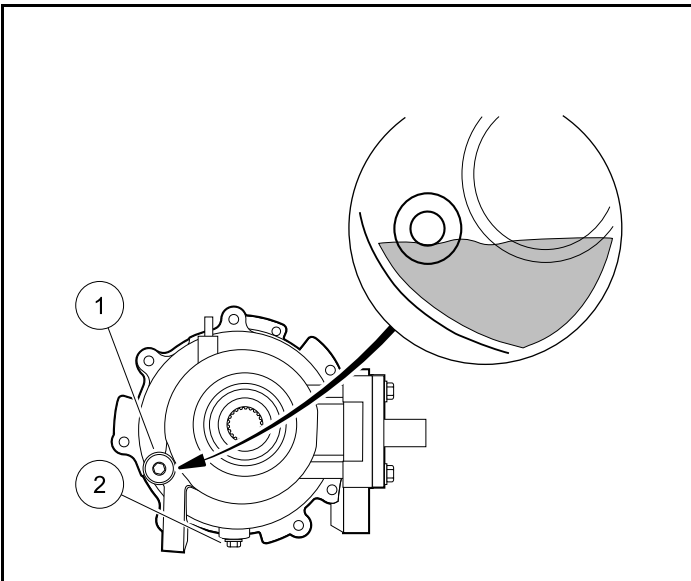
Each gearcase component is equipped with two oil port plugs (1 and 2) (**Figure 23**, **Figure 24**, and **Figure 25**). When the vehicle is on a level surface, use the level indicator hole (upper plug) (1) as a lubricant level indicator. Lubricant level should be even with the bottom of level indicator hole (1).

LUBRICATION CHANGE FOR FRONT DIFFERENTIAL, TRANSMISSION, AND REAR DIFFERENTIAL

Use the lower plug (2) for drainage (**Figure 23**, **Figure 24**, or **Figure 25**). Remove both plugs to allow the lubricant to drain faster. **See preceding NOTE.**

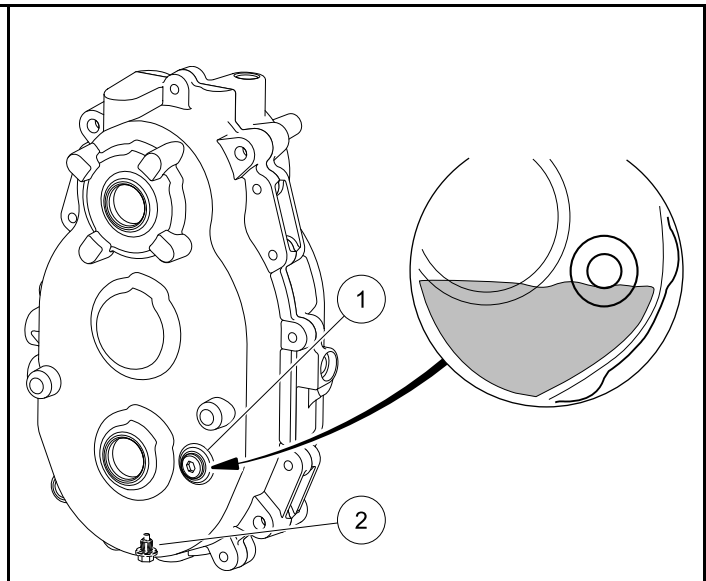
Front differential:

Clean and install the drain plug (2) and washer before filling the front differential with new lubricant (**Figure 23**). 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 32.** Tighten the level indicator plug to 120 in-lb (14 N·m).



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Figure 23 Front Differential Lubrication Level



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Figure 24 Transmission Lubrication Level

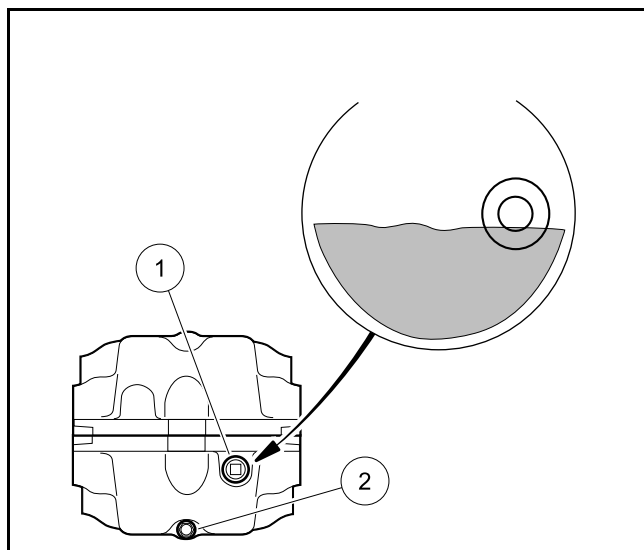
Transmission:

Clean and install the drain plug (2) before filling the transmission with new lubricant (**Figure 24**). 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 32.** 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 25**). 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 32.** 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 25 Rear Differential Lubrication Level

ENGINE COOLANT

ENGINE COOLANT LEVEL CHECK

The coolant reserve tank (2) is located under the hood on the passenger side (**Figure 15**). 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.

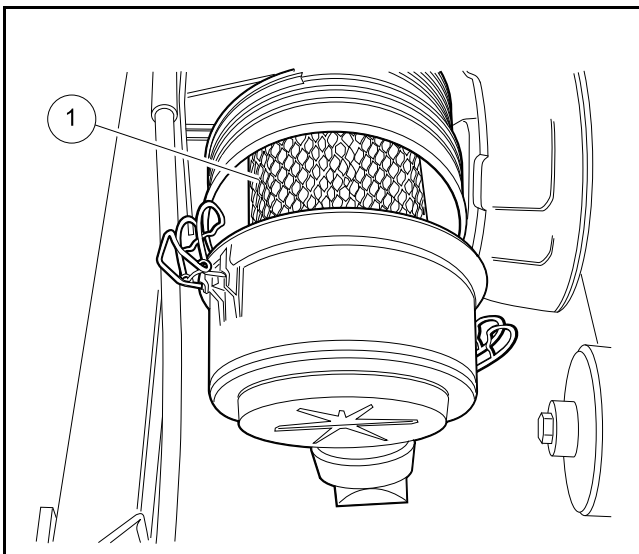
AIR FILTER REPLACEMENT

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 29.** 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 26**).
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 26 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 8.

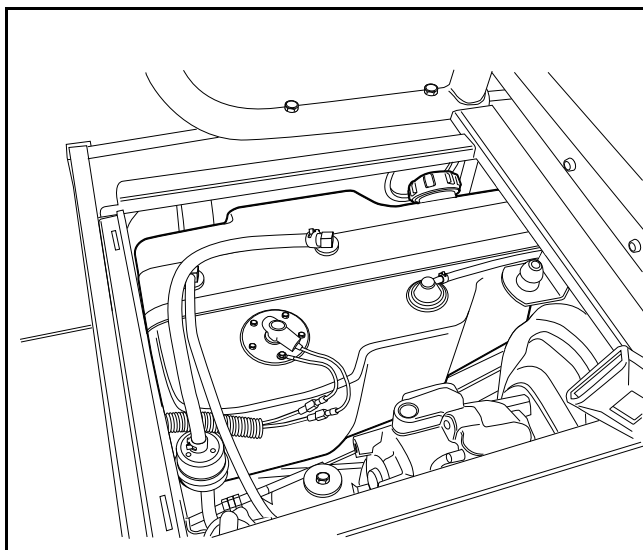
▲ DANGER

- 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. See preceding **DANGER** and following **NOTE**.

NOTE: 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 27 Fuel Tank

BIODIESEL FUEL

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 34.**
- 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 27. 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

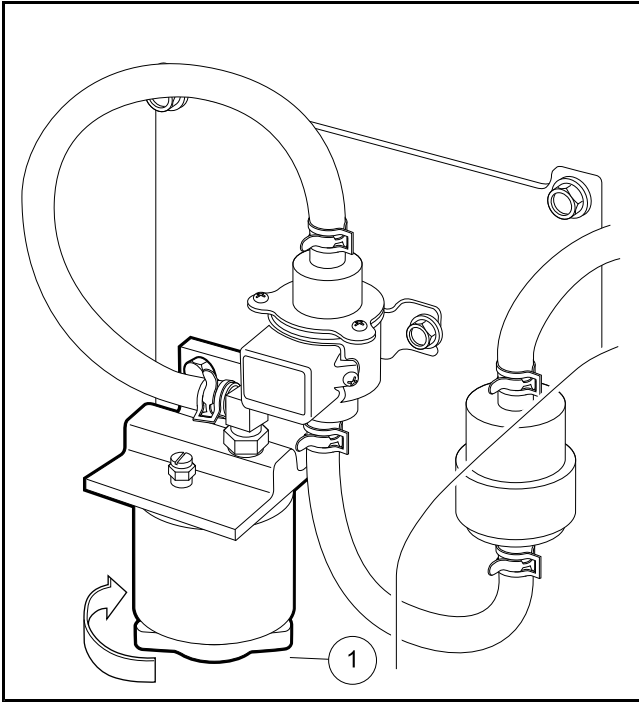
Water should be drained from the fuel filter daily. The fuel filter is mounted on a plate by the lower seat support panel (**Figure 28**).

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 28 Fuel Filter

BATTERY

See General Warnings on page 8.

⚠ 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.**
 - **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

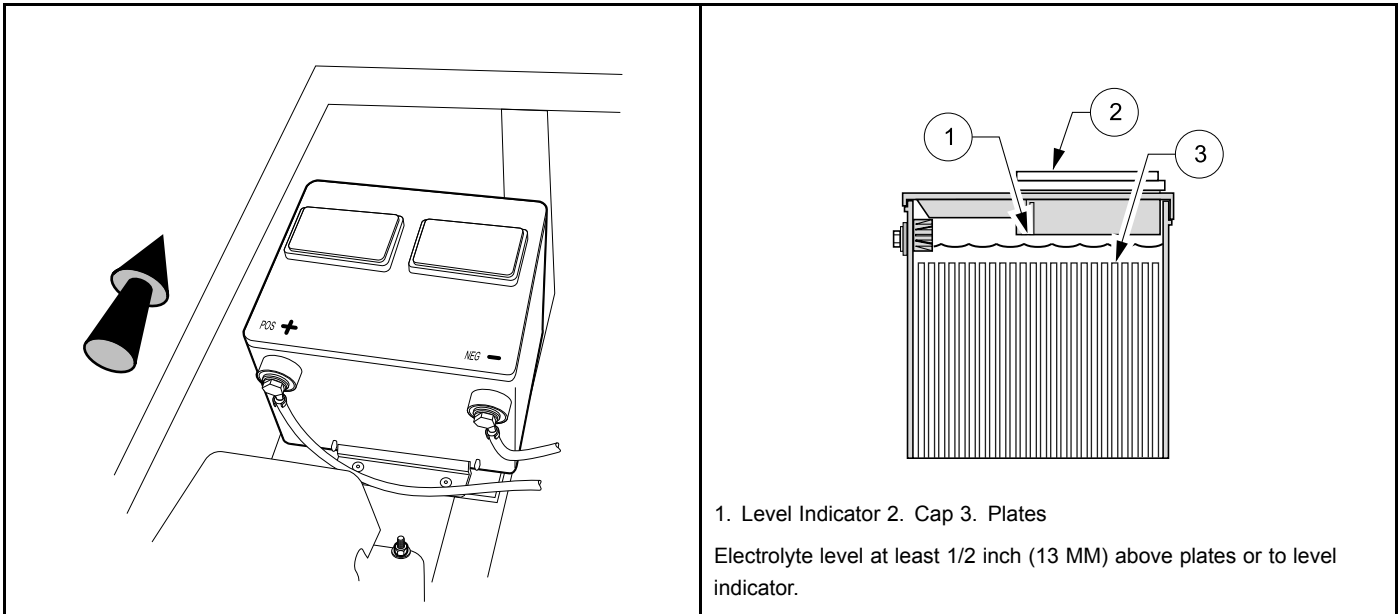
- **Wear safety glasses or approved eye protection when servicing the vehicle.**
- **Follow all instructions carefully when working with batteries.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- 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 a Husqvarna vehicle is a 12-volt, low-maintenance battery that requires infrequent checks (**Figure 29**). Electrolyte level should be checked semiannually.



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Figure 29 Battery

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Figure 30 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 8.**
 - 2.1. Remove the driver-side seat.
3. Disconnect battery. **See Disconnecting the Battery – Diesel Vehicles on page 9.**
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. Be sure terminals are tight. Let the terminals dry and then spray them with Battery Terminal Protector Spray (P/N 603 00 00-03). **See Connecting the Battery – Diesel Vehicles on page 9. 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)

▲ WARNING

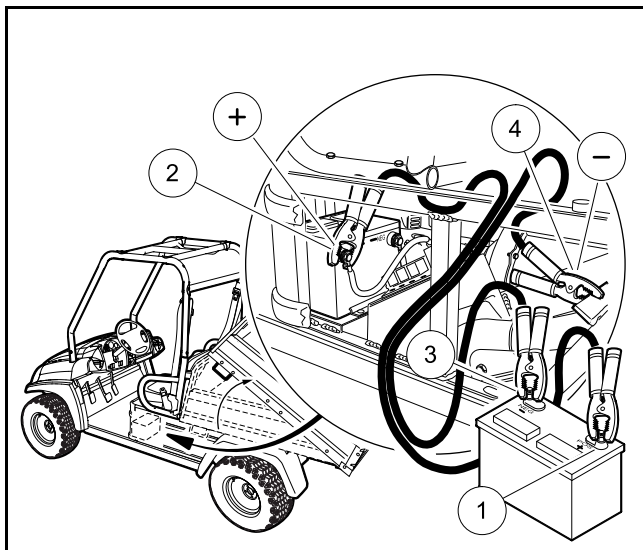
- Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working on or near batteries.
- When jumping from a booster battery make final connection (negative) at engine frame.
- Do not jump start or charge a frozen or damaged battery. 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.
3. Access the engine compartment by raising the cargo bed. **See WARNING “For vehicles with cargo beds...” in General Warnings on page 8.**
4. Locate the vehicle battery on the driver’s side of the vehicle under the cargo bed (**Figure 31**).
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 8.**
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 31 Jump Starting

CLEANING THE VEHICLE

Each vehicle is equipped with hand-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

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

- **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

- **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.**

MUD TIRE OPTION

All-wheel drive (AWD) vehicles are equipped with 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.**

▲ WARNING

- **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.**

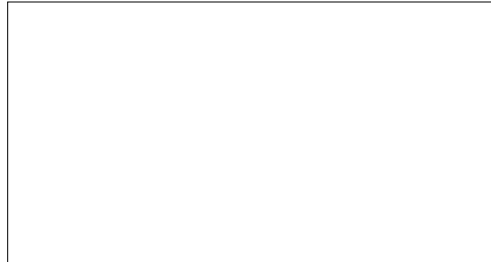
Husqvarna tires are made specifically for the AWD vehicle; therefore, Husqvarna recommends that only tires purchased from Husqvarna be used on your AWD vehicle.

VEHICLE SPECIFICATIONS

SPECIFICATIONS	DIESEL VEHICLES
POWER SOURCE	
Engine: 4-cycle OHV, 719 cc 15Kw (20.0 maximum HP) @3600 RPM (per SAE J 1940/1349) Three-cylinder, liquid-cooled, with pressure lubrication system	•
Fuel system: Mechanical injection, fuel water separator, fuel filters, and electric fuel pump	•
Governor: internal to engine, mechanical, centrifugal ball	•
Ignition: Compression	•
Transmission: Forward and reverse with neutral (4.98:1 forward, 7.79:1 reverse)	•
Electrical system: 12 volt, 500 cca at -17.8 °C (0 °F), 650 at 0 °C (32 °F). 105-minute reserve capacity and 35-amp charging capacity	•
Torque converter: Automatic, variable-speed, dry type	•
STEERING/SUSPENSION/BRAKES	
Steering: Self-adjusting rack and pinion, Ackerman	•
Suspension: Front: Independent double A-arms with coil-over shock absorbers Rear: Swing arms with coil-over shock absorbers	•
Brakes: Hydraulic brake system – brake pads and discs on each wheel with separate foot-operated park brake	•
BODY/CHASSIS	
Frame/Chassis: Box tube aluminum	•
Side and rear body: All aluminum	•
Cargo bed: Powder-coated steel or aluminum	•
Front body: ABS/DR acrylic cap	•
Tires: All Terrain: 25 x 10.5 – 12 front, and rear; tubeless, 4-ply rated load range Mud: 25 x 11.0 – 12 front and rear; tubeless, 4-ply rated load range	•
DIMENSIONS/CAPACITIES	
Overall length (box bed configuration)	124.6 in. (317 cm)
Overall width without mirror with mirror	58.9 in. (149.7 cm) 66.1 in. (167.8 cm)
Overall height (with ROPS)	82.2 in. (208.9 cm)
Wheelbase	81.7 in. (207.5 cm)
Ground clearance: under differential	8.2 in. (20.8 cm)
Front wheel tread	48.2 in. (122.5 cm)
Rear wheel tread	48.2 in. (122.5 cm)
Forward speed	25 mph (40 km/h)
Governed RPM	3825

SPECIFICATIONS		DIESEL VEHICLES	
Maximum payload capacity (level surface only)		Standard option: 706 lb. (320 kg)	High capacity option: 961 lb. (436 kg)
Vehicle rated capacity (payload, driver, and passenger; level surface only)		1106 lb. (544 kg)	1361 lb. (657.6 kg)
NOISE AND VIBRATION SPECIFICATIONS			
Drive-by noise level to operator per BS EN 1726-1:1999		82 dBA	
Drive-by noise level to environment		79.9 dBA	
Vibration at driver's seat per BS EN 13059:2002 +A1:2008		1.0 m/s ²	
CLIMATIC EXTREMES			
Operating temperature range		-20 to 40 °C (-4 to 104 °F)	
LIQUID CAPACITIES			
Engine crankcase with filter: SAE 10W-30, API classification CF		3 qt. (2.8 L)	
Front differential: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant		5 oz. (150 mL)	
Rear differential: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant		20 oz. (600 mL)	
Transmission: Mobil 424, Exxon Hydraul 560, or Esso Hydraul 56 lubricant		20 oz. (600 mL)	
Engine coolant: mixture of 55% propylene glycol and 45% water		2 gal. (7.8 L)	
Brake fluid: DOT 5 (silicone) brake fluid		8 oz. (240 ml)	
Fuel tank: diesel grade no.2 with cetane rating of 45 or higher		6.5 gallons (24.6 L)	
TIRE PRESSURE			
All-terrain tread and mud tires		20 - 22 psi (1.38 - 1.52 Bars)	

VEHICLE MASS		STANDARD OPTION	HIGH CAPACITY OPTION
Unladen vehicle mass (full tank)	Front axle:	862 lb. (391 kg)	864 lb. (392 kg)
	Rear axle:	1023 lb. (464 kg)	1025 lb. (465 kg)
	Total:	1885 lb. (855 kg)	1889 lb. (857 kg)
Running order weight with driver (unladen vehicle mass plus driver)	Front axle:	939 lb. (426 kg)	941 lb. (427 kg)
	Rear axle:	1111 lb. (504 kg)	1113 lb. (505 kg)
	Total:	2050 lb. (930 kg)	2055 lb. (932 kg)
Running order weight with driver and passenger (unladen vehicle mass plus driver and passenger)	Front axle:	1016 lb. (461 kg)	1019 lb. (462 kg)
	Rear axle:	1199 lb. (544 kg)	1202 lb. (545 kg)
	Total:	2216 lb. (1005 kg)	2220 lb. (1007 kg)
Gross vehicle weight limit (GVWR Max): fully loaded vehicle, accessories included		2756 lb. (1250 kg)	3016 lb. (1368 kg)



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