Arctic Cat user manual

- DVX 300
- XC 450
- 400 2x4
- 400 4x4
- 450i
- 550i
- 550i TRV
- 700i
- 700i TRV
- 700i TBX
- 700 Diesel
- 1000i
- 1000i TRV
- XR 550i XT
- XR 700i
- XR 700i XT
- ALTERRA 550i
- ALTERRA 550 XT
- ALTERRA TRV 550i
- ALTERRA TRV 550 XT
- ALTERRA 700i
- ALTERRA 700 XT
- ALTERRA TRV 700i
- ALTERRA TRV 700 XT
- ALTERRA TRV 1000i
- ALTERRA TRV 1000 XT

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Introduction

Thank you for purchasing a high-quality all-terrain vehicle (ATV) from Arctic Cat. As owner/user of the vehicle, make yourself thoroughly familiar with the basic procedure instructions for operation, maintenance and storage. Read the user manual thoroughly before putting the vehicle into operation.

This user manual contains instructions for the operation of the vehicle and important information on the storage in the off-season for driving.

In the event of larger repair or maintenance and repair work please contact an authorised Arctic Cat dealer.

All information and figures contained in this user manual are considered technically correct at the time of this publication. Some figures are provided only for clarification purposes and not for representing factual circumstances. As Arctic Cat continuously refines and improves the products any retroactive liability is excluded.

The user manual is an integral part of the vehicle and shall be handed over with the vehicle in the event of sale. If the vehicle changes hands, please contact the warranty department of Arctic Cat GmbH, Industriestraße 43, 5600 St. Johann/Pg., Austria, to ensure proper registration. This user manual has been prepared by the Service department of Arctic Cat.

Parts and accessories

In the event of needing spare parts, oils or accessories for your Arctic Cat vehicle, make sure that you only use ORIGINAL PARTS, OILS, AND ACCESSORIES FROM ARCTIC CAT.

Only the original parts, oils, and accessories meet the requirements of your Arctic Cat vehicle. You can find an exhaustive list of accessories in the current Arctic Cat accessories catalogue.

Your Arctic Cat dealer has a maintenance manual, as well as an illustrated manual with images of the components, available as an aid for the care and maintenance of your vehicle.
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1 Safety instructions

Observe the safety instructions to ensure safe handling of the vehicle. Therefore, read this user manual thoroughly. The safety instructions are emphasized optically in the text.

NOTE
Different warning sign, which contain important safety information, are attached to the vehicle. Every person using the vehicle shall have read and understood this safety information before driving.

If a warning sign comes off or becomes illegible, please contact your Arctic Cat dealer to obtain replacement.

1.1 Intended use

The vehicle has been designed and constructed for the common stresses in road traffic and off-road applications. The vehicle may only be steered by persons allowed to do so by national law.

1.2 Security levels and symbols

This user manual contains different symbols. The symbols call attention to possible risks or indicate protective measures.

The warning symbols are classified in the categories Danger, Warning, Caution, and Attention.

DANGER
Indicates a hazard which, if not avoided, will lead to serious injury or death.

WARNING
Indicates a hazard which, if not avoided, could lead to serious injury or death.

CAUTION
Indicates a hazard which, if not avoided, could lead to serious injuries.

ATTENTION
Indicates the measures to prevent material damage.
Always observe this warnings and proceed particularly attentively and carefully when performing the work steps marked in this way.

**NOTE**
This symbol indicates explanations whose compliance contributes to a better understanding and ideal operation of the vehicle.

### 1.3 General safety instructions

Observe that this vehicle IS NOT A TOY AND ITS OPERATION BEARS RISKS. This vehicle behaves differently to other vehicles such as e.g. motorcycles or cars. Even in the case of normal driving manoeuvres (e.g. steering, driving in the mountains, driving over obstacles), collisions and rollovers may occur if you do not take suitable precautions.

To prevent serious or mortal injuries, please observe the following:

- Read the user manual thoroughly and follow the instruction contained within. Pay particular attention the warnings in this user manual and the adhesive labels attached to the vehicle.
- Never use the vehicle without sufficient training. Take driving lessons. Beginners should attend a driving course.
- Never drive this vehicle without the corresponding protective clothes (jacket, trousers, helmet, protective eyewear, boots, and gloves). Always use protective clothes that are in perfect condition and meet the legal requirements.
- Adapt the speed to the terrain, the visibility conditions and your experience.
- Never try to perform rides only on the rear wheels, jumps or other stunts.
- Always grip the handlebar with both hands.
- While driving, always place both of your feet on the footrests.
- Do not drive if your are incapable to participate in traffic due to the influence of alcohol, medication, or drugs, or if you are both physically and mentally not in form to drive the vehicle.
- Provide adequate ventilation when operating the engine in closed rooms. Do not operate the engine in a closed room without a suitable extraction system.
- Parts such as e.g. exhaust system, cooler, engine, shock absorbers, and braking system heat up during operation. Only touch these parts after they have cooled down.
1.4 Safety instructions for driving

- Always climb off on the uphill side. If the vehicle is standing exactly in the uphill direction, you may climb off on both sides.
- Never drive the vehicle in terrain that is too steep for the vehicle or for your capabilities. Train on less steep slopes before driving steeper slopes.
- Never cross a slope that is so steep that the vehicle tilts heavily to one side.
- Always drive slowly and particularly carefully in unfamiliar terrain.
- Always pay attention to changing terrain conditions.
- Never drive over high obstacles such as e.g. rocks or fallen trees.
- Do not drive in rough, slippery and loose terrain before you have not acquired the necessary capabilities.
- Always drive particularly carefully in rough, slippery and loose terrain.
- Follow the instructions for turning manoeuvres.
- First, train turning in level terrain and at slow speed.
- Avoid fast steering movements.
- Shift your weight towards the uphill side of the vehicle when turning.
- Never turn on a slope before you have not learned the turning manoeuvre.
- Perform turning manoeuvres on the slope with utmost caution.
- Drive slowly and very carefully on extremely slippery surfaces (e.g. ice).
- Never drive in fast-flowing stretches of water or in stretches of water whose depth exceeds the height of the footrests.
- Observe that wet brakes increase the braking distance. Test the brakes as soon as you have left the water. If necessary, brake several times to dry the brake pads.
- Never take passenger with you that are younger than 12 years.
- Do not take a passenger with you whose feet do not reach the footrests.
- Advise the passenger that he must allow you the possibility of unrestricted changing of your seating position while driving.
- Advise the passenger that he must place his feet on the footrests.
- Advise the passenger that he must hold on to the handles with the hands.
- Make sure that the passenger is wearing the specified protective clothes.
- Always use the tyre size and type specified in the user manual.
- Always ensure the specified tyre pressure and the adequate tyre tread depth.
- Do not drive with worn tyres.
- Check the perfect condition of the vehicle before every ride.
- Always observe the inspection and maintenance instructions, as well as the maintenance dates, specified in the service manual.
- Avoid high engine temperatures.
- If necessary, reduce the engine speed and the load, and select a suitable gear to reduce the engine temperature.
- Inspect the cooler and the engine periodically for soiling, and carefully clean the cooler and the engine if necessary.
- Have a specialist repair shop authorised by Arctic Cat remove heavy soiling of the cooler.
1 Safety instructions

Notes on uphill driving:

- Never drive on uphill slopes of more than 25°.
- Check the terrain carefully before driving uphill.
- Never drive on slopes with slippery or loose ground.
- Shift your weight forwards.
- Never accelerate nor change the gear with a jerk. The vehicle could fall over backwards.
- Never drive over a hill top at high speed. There could be an obstacle, a steep slope, another vehicle or a person hidden behind the hill top.
- Engage a suitable gear and drive uphill at a steady speed.
- When you start to slow down: shift your weight in uphill direction and brake.
- When you start rolling backwards: shift your weight in uphill direction and brake.
- Actuate the brake lock as soon as the vehicle is completely stationary.

Notes on downhill driving:

- Never drive on downhill slopes of more than 25°.
- Check the terrain carefully before driving downhill.
- Shift your weight backwards.
- Never drive down a hill at high speed.
- If possible, drive down the hill in a straight line.
2 View of the vehicle

2.1 Front left-hand view of the vehicle

Fig. 1

1 12 V socket
2 Gauge
3 Ignition switch
4 Winch switch
5 Starter button
6 Indicator switch
7 Warning light switch
8 Hand brake lever
9 Brake lever lock
10 Shift lever
11 Headlight
12 Winch
# View of the vehicle

## 2.2 Rear right-hand view of the vehicle

<table>
<thead>
<tr>
<th>Number</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Seat release</td>
</tr>
<tr>
<td>2</td>
<td>Horn button</td>
</tr>
<tr>
<td>3</td>
<td>Light switch</td>
</tr>
<tr>
<td>4</td>
<td>Drive selector switch</td>
</tr>
<tr>
<td>5</td>
<td>Throttle control</td>
</tr>
<tr>
<td>6</td>
<td>Parking brake</td>
</tr>
<tr>
<td>7</td>
<td>Fuses (only XR/Alterra)</td>
</tr>
<tr>
<td>8</td>
<td>Foot brake pedal (main brake)</td>
</tr>
<tr>
<td>9</td>
<td>On-board tool kit</td>
</tr>
<tr>
<td></td>
<td>(underneath the seat)</td>
</tr>
<tr>
<td>10</td>
<td>Fuses (underneath the seat)</td>
</tr>
<tr>
<td>11</td>
<td>Battery (underneath the seat)</td>
</tr>
<tr>
<td>12</td>
<td>Taillight / brake light</td>
</tr>
<tr>
<td>13</td>
<td>Hitch</td>
</tr>
<tr>
<td>14</td>
<td>Storage compartment (only XR/Alterra)</td>
</tr>
</tbody>
</table>
2.3  Hanging label

Arctic Cat vehicles are equipped with a hanging label, which contains important safety information. Every person using the vehicle shall have read and understood this information before driving.

Fig. 3

2.4  Chassis plaque

Arctic Cat vehicles with T3b approval are equipped with a chassis plaque that contains the important vehicle data.

The chassis plaque is attached to the frame, and is located behind the right-hand front wheel.

Fig. 4
2 View of the vehicle

2.5 Warning signs

Different warning sign, which contain important safety information, are attached to the vehicle. Every person using the vehicle shall have read and understood this information before driving.

The warning signs are considered permanent components of the vehicle. If a warning sign comes off or becomes illegible, you can obtain replacement at the Arctic Cat dealer.

NOTE
The arrangement and the contents of the signs may differ from the representation in this user manual. Individual labels might even not exist.
3 Serial numbers

The vehicle has two serial numbers:
– Vehicle identification number (VIN)
– Engine serial number (ESN)

The vehicle identification number (1), (3) is attached to the main chassis on the right-hand side of the vehicle.

The engine serial number (2) is attached to the rear side of the engine housing.

Fig. 6
NOTE
The vehicle identification number and the engine serial number are required for correct processing of warranty claims. Arctic Cat does not acknowledge any warranty claims, if the vehicle identification number or the engine serial number have been removed or changed in any way.

In the event of inquiries on spare parts, maintenance work, and accessory parts, or in the event of warranty claims, specify the name of the vehicle, the vehicle identification number, and the engine serial number to the dealer.

If an entire engine has to be replaced, the Arctic Cat dealer shall notify regarding an update of the registration information.

Fill in the vehicle identification number and engine serial number in the following table.

<table>
<thead>
<tr>
<th>Vehicle identification number:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine serial number:</td>
<td>--</td>
</tr>
</tbody>
</table>
4 Controls

4.1 Ignition switch

4.1.1 Ignition switch (not XR)

The ignition switch has three switch positions:

- **OFF (3):** All electrical circuits except for the accessory connection are switched off. The engine cannot be started. You can remove the ignition key in this switch position.

- **ON (1):** The ignition circuit is closed, the position lights are switched on, and you can start the engine. You cannot remove the ignition key in this switch position. Low beam and high beam are switched off.

- **LIGHT (2):** The ignition circuit is closed, the position lights and low beam or high beam are switched on. You cannot remove the ignition key in this switch position.

**NOTE**
In the case of vehicles delivered from the 01/01/2016, the functions of switch position LIGHT (2) and switch position ON (1) are identical.

**NOTE**
The accessory connection is supplied by the battery in any switch position.

**NOTE**
If the engine is not started within 5 minutes after switching on the ignition, the error code P0635 will appear and flash on the gauge display. In this case, turn ignition key into position OFF and into position ON again to be able to start the engine.

If the error code P0635 continues to flash afterwards, contact an Arctic Cat specialist repair shop authorised by Arctic Cat.
4.1.2 Ignition switch (XR/Alterra)

The ignition switch has three switch positions:

- **OFF (1):** All electrical circuits except for the accessory connection are switched off. The engine cannot be started. You can remove the ignition key in this switch position.

- **RUN (2):** The ignition circuit is closed and the engine can be in operation. All lighting functions are switched. You cannot remove the ignition key in this switch position.

- **START (3):** The ignition circuit is closed and the starter is activated. When releasing the ignition key, it will return to the position RUN. You cannot remove the ignition key in the position START.

![Fig. 8](image)

**NOTE**
The accessory connection is supplied by the battery in any switch position.

4.2 Steering lock

The steering lock (1) is installed on the left-hand side underneath the front fender.

Locking the steering:
1. Turn handlebar to the left as far as it will go.
2. Insert the key into the steering lock.
3. Turn key anti-clockwise and remove it.

Unlocking the steering:
1. Insert the key into the steering lock.
2. Turn key clockwise and remove it.

![Fig. 9](image)
4 Controls

4.3 Battery cut off switch

**NOTICE**
Only applies to vehicles with T3b approval.

With the battery cut off switch (1), all electrical circuits of the vehicle can be disconnected from the battery. Then, the electrical circuits cannot be switched on again via the ignition switch.

The battery cut off switch (1) is located underneath the seat.

![Fig. 10](image)

4.4 Operator presence control (OPC)

**NOTICE**
Only applies to vehicles with T3b approval.

After 10 seconds, the operator presence control (OPC) activates an alarm signal and "OPC" appears on the gauge display when the following conditions are fulfilled:

- Ignition is switched on or the engine is running.
- Gear lever is in any gear position except P (park position).
- Thumb throttle is not actuated.
- No service brake is actuated.

**NOTICE**
When actuating the brake and/or the thumb throttle, or when moving the gear lever to position P (park position), the alarm signal and the text in the gauge display go out.
4.5 Gear shift

The vehicle has an automatic gearbox with four gear positions:
- L (LOW): forward gear for off-road driving
- H (HIGH): forward gear for driving on the road
- N (NEUTRAL): idle
- R (REVERSE): reverse gear

**WARNING**
Never switch the gear lever to gear position P (park position) while driving. This may lead to serious accidents and serious damage to the vehicle.

**NOTE**
The vehicle can be equipped with a fifth gear position P (park position).

**NOTE**
Only change the drive position when the vehicle is stationary and the engine is idling.

To select the desired drive position, move the gear lever to the corresponding position in the shifting gate.

4.6 Drive selector switch

The drive selector switch has three switch positions:
- 2WD: driving with two-wheel drive (rear-wheel drive)
- 4WD: driving with four-wheel drive (all wheels)
- 4WD Lock: driving with four-wheel drive and locked front differential

To select the desired function, move the drive selector switch (1) to the corresponding position.
4 Controls

WARNING
Do not drive faster than 16 km/h when the front differential is locked.

ATTENTION
Only connect or disconnect the front differential when the vehicle is stationary.

NOTE
Use 4WD Lock only briefly to free yourself from a critical driving situation (e.g. when driving out of a mud hole).

NOTE
Two-wheel drive is recommended for driving on flat, dry, and hard ground, four-wheel drive for difficult conditions (e.g. ice, snow, or loose terrain).

4.7 Foot brake (main brake)
By pressing the foot brake pedal (1), the brakes on all four wheels are actuated hydraulically. The foot brake is the main brake of the vehicle and shall be used for every brake situation while driving.

Fig. 13
4.8 Hand brake

**WARNING**
The hand brake may become ineffective when activated over a longer period of time. This may lead to accidents. Therefore, never park the vehicle on an up or down gradient with only the hand brake blocked. Always actuate the parking brake, too.

By pulling the hand brake lever (1) toward the handlebar, the brakes on all four wheels are actuated hydraulically. The hand brake serves as addition to the foot brake (main brake). The hand brake can also be used as parking brake.

Using the hand brake as parking brake:
1. Pull hand brake lever (1) two to three times towards the handlebar and then release.
2. Push brake lever lock (2) towards the handlebar and hold.
3. Pull hand brake lever (1) until the brake lever lock (2) engages.
4. Release hand brake lever (1).
5. Check if the brake lever lock (2) has engaged correctly and the wheels are locked.

**NOTE**
When the brake lever lock (2) engages, a clicking noise is heard. The brake lever (1) does not return to its starting position after releasing. The wheels shall be locked. If this is not the case, have the vehicle serviced at an authorised Arctic Cat specialist repair shop.

Releasing the parking brake:
1. Pull hand brake lever (1) towards the handlebar.
2. Release hand brake lever (1). The hand brake lever returns to its starting position.

**WARNING**
Before driving, check if the hand brake is released.
4 Controls

4.9 Parking brake

WARNING
Do not use parking brake as main brake.

NOTE
Models equipped with a "P" position, do not have any parking brake but a hydraulic emergency brake.
If the main brake has failed, the brake on the right-hand side of the handlebar may be used as an emergency brake.

By pulling the parking brake lever (2) in the 2WD function, the brakes of the rear axle are actuated mechanically. After the brake lever lock (3) has engaged, the wheels are permanently locked.

Activating the parking brake:
1. Pull parking brake lever (2) towards the handlebar
2. Push brake lever lock (3) to the side until it engages in the pin (1).
3. Release parking brake lever (2).
4. Check if the brake lever lock (3) has engaged correctly and the brake locks the wheels.

NOTE
When the brake lever lock (3) engages, a clicking noise is heard. The parking brake lever (2) does not return to its starting position after releasing. The wheels shall be locked. If this is not the case, have the vehicle serviced at an authorised Arctic Cat specialist repair shop.

Releasing the parking brake:
1. Pull parking brake lever.
2. The parking brake lever returns to its starting position.

WARNING
Before driving, check if the parking brake is released.

Fig. 15
4.10 Light switch

**NOTE**
High beam and low beam can only be switched on when the ignition key is in the LIGHT position (refer to Fig. 7).

The light switch (3) has two switch positions:
- High beam (1)
- Low beam (2)

To select the desired function, move the light switch (3) to the corresponding position.

4.11 Indicator switch

Switching indicator on:
1. Push indicator switch (1) from the centre position to the desired turning direction and then release. The indicator switch automatically returns to the centre position.

Switching indicator off:
1. Press and release indicator switch (1).

4.12 Warning light switch

The warning light switch (2) has two switch positions:
- Warning light on (1)
- Warning light off (3)

To select the desired function, move the warning light switch (2) to the corresponding position.
4 Controls

4.13 Horn button
To actuate the horn, press the horn button (1).

4.14 Winch switch
The winch switch (2) has two switch positions:
- OUT (1): rope is unwound.
- IN (3): rope is wound.

To select the desired function, move the winch switch (2) to the corresponding position.

**WARNING**
For the operation of the winch, observe the user manual of the winch.

4.15 Starter button
Starting the engine:
1. Press starter button (1). Release starter button (1) as soon as the engine is running.

**NOTE**
Before starting the engine, check the following:
- Is the ignition key in the ON position?
- Is idle set?
- Is the foot brake or the hand brake activated?
NOTE
The vehicle has a deadlock function, which prevents activating the starter if idle is not set.

NOTE
The engine of the XR/Alterra models is started with the ignition key (refer to section 4.1.2).

4.16 Thumb throttle

Increasing engine speed:
1. Push thumb throttle (1) towards the handlebar.

Reducing engine speed:
1. Let thumb throttle (1) slide back.

ATTENTION
Before driving, check if the thumb throttle (1) has a clearance of 4 mm. If the clearance is bigger or smaller than 4 mm, have the clearance adjusted at an authorised Arctic Cat specialist repair shop.

ATTENTION
Before driving, check the thumb throttle stop screw (2) for tightness. If the thumb throttle stop screw (2) is loose, have the error rectified at an authorised Arctic Cat specialist repair shop.

Fig. 22
4 Controls

4.17 Power steering

NOTE
Not every vehicle has power steering. Take the respective vehicle specifications from Arctic Cat homepage.

The vehicle is equipped with a maintenance-free electronic power steering (EPS). The power steering has a self-monitoring function. If an error occurs in the power steering, an error code will appear in the gauge display.

When the power supply fails, the power steering will not be operative. In this case, you will only be able to steer the vehicle applying higher force.

ATTENTION
Do not drive when an error code "P0635" of the power steering appears in the gauge display.

NOTE
When the error code "P0635" appears in the gauge display, switch the ignition off and on again. If the error code "P0635" still appears thereafter, have the error rectified at an authorised specialist repair shop.

4.18 Gauge

4.18.1 Gauge (not XR)

NOTE
When the ignition key is moved to the ON position, all segments of the gauge display will light up for approx. 2 seconds.

The sections that follow describe the display fields and function buttons of the gauge.

Clock / operating hours counter (1) – The clock is set to the 12 hour format. The operating hours counter displays the total operating hours of the vehicle and cannot be reset to zero.
Setting the clock:
1. Move ignition key to ON position.
2. Press "M" button (Modus) (3) repeatedly until the clock or the operating hours counter (1) is displayed.
3. If required, press "S" button (setting/reset button) (4) to select the clock display.
4. For setting the hour display, press "S" button (4) repeatedly until the minute display stops counting and the hour display shows the desired hour.
5. Release "S" button (4).
6. For setting the minute display, press "S" button (4) repeatedly until the desired number of minutes is displayed.

**NOTE**
The time of day memory is checked and reset during start-up of the gauge. If the power supply of the time of day memory fails (e.g. in case of defective fuse) the display will flash until the power supply of the time of day memory is restored. If the display is flashing: check 15 A fuse.

**NOTE**
The operating hours counter starts only after an engine speed of more than 500 rpm is reached.

**Temperature indicator** (2) - If the coolant temperature exceeds the normal operating range, the temperature icon starts flashing and the gauge display goes out for 30 seconds. Thereafter, the gauge display returns to the normal operation mode. The temperature icon continues flashing.
Controls

"M" button (Mode) (3) – Using the "M" button, you can toggle between the following display modes:
- Speedometer / gauge
- Distance
- Time of day

Toggling between the display modes:
1. Press and release "M" button repeatedly until the desired mode is displayed.
   Around 2 seconds after releasing the "M" button, the digital display will return to the full-screen display.

"S" button (Setting/resetting button) (4) – Using the "S" button, and in combination with the "M" button, various displays of the digital instruments can be set and reset.

Level indicator (5) – Displays the approximate fill level of the fuel tank.

NOTE
If the bottom segment of the level indicator is flashing, there will still be 3.5 l (0.92 U.S. gal.) of fuel in the tank.

Low oil pressure indicator (6) – This icon is only displayed during the self test while starting. The oil pressure is not displayed in normal operation (because it is not measured in these vehicles).

Odometer (ODO) / trip meter (TRIP) (7) - The odometer displays the total number of kilometres driven with this vehicle and cannot be reset. In contrast, the trip meter is used to measure distances or legs and can be reset.

Toggling between odometer (ODO) and trip meter (TRIP) display:
1. Press "M" button (3) to select the "Distance" mode.
2. Press "S" button (4) to select the desired ODO or TRIP display.
3. To reset the trip meter: keep "S" button (4) pressed.

Gear indicator (8) – Displays the gear engaged:
- R (Reverse gear)
- N (Neutral position)
- L (Low speed gear)
- H (High speed gear)
- P (Park position, if available)
NOTE
If a gear position is not recognized, an "E" will appear in the indicator.

NOTE
The park position "P" is not displayed in the cockpit in the case of all vehicles.

High beam indicator (9) – the high beam indicator appears when the high beam is switched on.

Drive indicator (10) – Displays "4WD" when this drive has been selected with the drive selector switch. The 2WD mode will not be displayed.

NOTE
In the case of vehicles with differential lock, the text "Lock" will be displayed underneath the "4WD" icon when activating the front axle differential lock.

Speedometer (11) – Displays the approximate speed of the vehicle in kilometres per hour (km/h) or in miles per hour (MPH).

Toggling between "km/h" and "MPH" display:
1. Press "M" button (3) to select the "Speedometer/gauge" mode. The (MPH/km/h) icon appears.
2. Press "S" button (4) to change the display.

Status warning indicator – Any system error which must be rectified will be displayed in the odometer display of the gauge display. The following error displays are possible:
   - VOLT
     In the event of a voltage drop (< 9 V) or an overvoltage (> 16 V), the gauge display only displays the flashing word "VOLT". When the voltage returns to the normal value, the display must be reset manually. To do this, turn ignition key to OFF position and, thereafter, to the ON position again.
   - EFI
     Electronically controlled Fuel Injection. If an error occurs in the injection system, the entire gauge display of the cockpit goes out for 30 seconds. During this time, only the flashing error display (DTC) and graphic display of a wrench are displayed. After 30 seconds, the gauge displays appear in addition to the error display. After rectifying the displayed error, the error display will automatically go out.

NOTE
Have an EFI error rectified as soon as possible at an authorised Arctic Cat specialist repair shop.
4 Controls

4.18.2 Gauge (XR/Alterra)

The sections that follow describe the display fields and function buttons of the gauge.

Display of speed / revolutions / time of day (1) – Depending on the selected function, it will display the approximate vehicle speed (km/h or MPH), the engine speed, or the time of day.

Toggling between speed display, revolutions display, and time of day:
1. Press left-hand button (6).

Toggling between Anglo-American and metric units display:
1. Select the function "Speed display".
2. Press left-hand button (6) and keep pressed. The display will toggle between Anglo-American and metric units.

Setting the clock:
1. Select the clock function with the left-hand button (6).
2. For toggling between 12 hour format display and 24 hour format display: Press centre button (4) and keep pressed. Then, press left-hand button (6) or right-hand button (5) until the desired format is displayed.
3. For setting the hour display: Press centre button (4) again. Then, press left-hand button (6) or right-hand button (5) repeatedly until the desired number of hours is displayed.
4. For setting the minute display: Press centre button (4) again. Then, press left-hand button (6) or right-hand button (5) repeatedly until the desired number of minutes is displayed.
5. To return to the normal gauge function: press centre button (4) again.

Fig. 24
Display of operating hours counter / odometer / trip meter / speed / revolutions / time of day (2) – Depending on the selected function, it will display the operating hours of the engine, the total number of kilometres driven with the vehicle, the number of kilometres of a leg, the speed, the revolutions, or the time of day.

NOTE
If a function is already displayed in the top display area (1), it cannot be displayed in the centre display area (2), too.

Toggling between the display modes:
1. Press and release centre button (4) repeatedly until the desired mode is displayed.

NOTE
The operating hours counter starts only after an engine speed of more than 500 rpm is reached.

NOTE
The operating hours counter and the odometer cannot be reset to zero.

Resetting the trip meter:
1. Press and release centre button (4) repeatedly until the desired mode "Trip meter" is displayed.
2. Press and hold centre button (4) until the trip meter displays "0".

Setting the clock:
1. Press and release centre button (4) repeatedly until the desired mode "Clock" is displayed.
2. Press and hold centre button (4).
3. Proceed as described in "Display of speed / revolutions / time of day (1)".

Display of coolant temperature / battery voltage / fill level of fuel tank (3) – Depending on the selected function, it will display the coolant temperature, the battery voltage, the intake air temperature, or the fill level of the fuel tank.

Toggling between the display modes:
1. Press and release right-hand button (5) repeatedly until the desired mode is displayed.

Displaying the current valid value related to the selected mode:
1. Press and hold right-hand button (5).
4 Controls

ATTENTION
Permanent operation at a too high engine temperature leads to engine damage and premature wear.

**Centre button** (4) – Using the centre button, you can toggle between the following display modes for the area in the centre of the display:
- Speedometer
- Tachometer
- Clock
- Odometer
- Trip meter (Trip 1)
- Trip meter (Trip 2)
- Operating hours counter

**Right hand button** (5) – Using the right-hand button, you can toggle between the following display modes for the area at the bottom of the display:
- Coolant temperature
- Intake air temperature
- Fill level of fuel tank
- Tachometer

**Left hand button** (6) – Using the left-hand button, you can toggle between the following display modes for the area at the top of the display:
- Speedometer
- Tachometer
- Clock

**Gear indicator** (7) – Displays the gear engaged:
- R (Reverse gear)
- N (Neutral position)
- L (Low speed gear)
- H (High speed gear)
- P (Park position)

**Differential lock indicator** (8) – The "LOCK" indicator appears when the differential lock is activated.

**Drive indicator** (9) – The "4WD" indicator appears when the four-wheel drive or the differential lock is activated.

**EFI error display** (10) – If an error occurs in the electronic fuel injection system, an error code and an engine icon will appear in the gauge display. After rectifying the error, the error display will automatically go out.
NOTE
Have an EFI error rectified as soon as possible at an authorised Arctic Cat specialist repair shop.

Safety belt indicator (11) – The safety belt icon appears for approx. 8 seconds after switching on the ignition.

4.19 Rear view mirror

WARNING
Always adjust the rear view mirrors such that no branches or twigs can become entangled.

The rear view mirrors can be adjusted to the desired angle or folded in (e.g. when driving in densely wooded or bushy terrain).

4.20 Seat release

WARNING
Before climbing onto the vehicle, check if the seat is correctly locked.

The seat can be removed. To do this, the seat must be released.

Removing the seat:
1. Pull seat release (1) upwards.
2. Lift rear end of the seat and push seat backwards.

Installing the seat:
1. Push front side of the seat forwards into the seat mounts and, while doing this, pressing the rear end of the seat downwards. The seat will lock automatically in the holding position.

4.21 Clamp for safety flag

A clamp is fitted to the rear rack of the vehicle for fastening a safety flag.

Fig. 25
5 First putting into operation

5.1 Notes regarding first putting into operation

- Ensure that all works of the delivery inspection have been carried out at an author-
  ised Arctic Cat specialist repair shop.
- Before the first ride, read the entire user manual carefully.
- Enter de registration PIN (refer to section 5.2).
- Make yourself familiar with the controls.
- Observe the safety instructions.
- Become accustomed to the handling of the vehicle on suitable terrain.
- Do not go on off-road driving that is beyond your capabilities.
- While driving, hold the handlebar with both hands.
- While driving, keep your feet on the footrests.
- Run the engine in (refer to section 5.3).
- Run the brake pads in (refer to section 5.4).

5.2 Entering the registration PIN (POSR)

**NOTE**
This Arctic Cat vehicle is equipped with a software which requires entering
a 6 digit PIN (Personal Identification Number) at the time of registration.

As soon as the vehicle has been completely registered (the vehicle check list must be
completed online), the 6 digit PIN is sent via e-mail.

After delivery, the gauge display will display one of the following codes: U1000 or
U1001. At the same time, all functions will be deactivated as long as the registration
PIN has not been entered. You can confirm the code with the "S" button. The code
will disappear until the next start.

During the first five operating hours after putting into operation, the vehicle will run
without restrictions and the code U1000 will be displayed. After five operating hours,
the code U1001 will appear and the speed will be limited to approximately 4,500 rev-
olutions per minute.

**NOTE**
The "M" and "S" buttons can be arranged in a different way as shown in
Fig. 26.
Entering 6 digit PIN:
1. Press "M" (1) and "S" (2) buttons and keep pressed.
2. Turn ignition key to ON position.
3. Keep "M" (1) and "S" (2) buttons pressed until the gauge display shows "Pin".
4. Release "M" button.
5. Press "M" button (1) repeatedly until the number 1 is displayed on the left-hand side of the gauge display.
6. Press "S" button (2) repeatedly until the first digit of the registration PIN is displayed on the right-hand side of the gauge display.
7. Press "M" button (1). The number 2 is displayed on the left-hand side of the gauge display.
8. Press "S" button (2) repeatedly until the second digit of the registration PIN is displayed on the right-hand side of the gauge display.
9. Repeat steps 7 and 8 until all 6 digits of the registration PIN have been entered.

**NOTE**
Only one value and its associated position in the code are displayed in the gauge display at any time.

10. Press "M" button (1) after entering the last value. The entered PIN will be displayed.
11. Check if all digits of the registration PIN have been entered correctly.
12. Turn ignition key to OFF position and wait until the gauge display goes out.
13. Turn ignition key to ON position and check if no code (U1000 or U1001) is displayed any longer.

**NOTE**
If a wrong PIN has been entered, a code (U1000 or U1001) will still be displayed. In this case, the PIN shall be entered again.
5 First putting into operation

5.3 Running in the engine

The engine needs a running in period. Handling the vehicle correctly during this running in period will help to maximise the service life and the performance of the engine.

Notes on the running in period:
- During the first 10 operating hours only drive at a maximum of half throttle.
- Vary the load range and the engine speed range during the running in period.
- Do not tow any trailers during the running in period.
- Let the engine idle for a few minutes after starting until it has reached the normal operating temperature.
- Do not let the engine for too long.

5.4 Running in the brake pads

WARNING
New brake pads may significantly increase the braking distance.
Drive anticipatorily and brake prematurely.

New brake pads must be run in to obtain their ideal frictional force.

CAUTION
Only run the brakes in in an area that is big enough to allow safe acceleration to 50 km/h and coming to a complete stop.

Running in the brake pads:
1. Accelerate to 50 km/h.
2. Brake down to 0-8 km/h.
3. Repeat this procedure five times.
6 Driving

NOTE
Observe the national laws and regulations with regard to transport and traffic.

6.1 Check list

CAUTION
Before every ride, check the condition of the vehicle and the operational safety with the aid of the following check list. Only use the vehicle in perfect technical condition.

Before driving, check the following items:
- Perfect functioning of foot brake, hand brake, and parking brake (refer to section 7.5)
- Adequate brake fluid level (refer to section 7.5)
- Perfect functioning of the gears (with running engine and activated brake)
- Free and unimpaired movement of the thumb throttle
- Tightness of thumb throttle stop screw
- Functioning of the 2WD/4WD selector switch
- Proper functioning of the lighting system (high beam, low beam, position lights, indicators, number plate lighting)
- Function of the status and warning displays in the gauge
- Adequate engine oil level (refer to section 7.2)
- Functioning and condition of the shock absorbers and wheel suspensions (free movement, escaping fluid) (refer to section 7.4)
- Free and unimpaired steering movement
- Adequate tyre tread depth and specified tyre pressure (refer to section 7.8)
- Fill level of the liquids (brake fluid, coolant, oil)

6.2 Climbing on / climbing off

Climbing onto the vehicle (driver):
1. From the left-hand side, grip left-hand handlebar and activate hand brake.
2. Place left foot on the footrest.
3. Grip right-hand handlebar.
4. Swing right leg over the seat and place right foot on right-hand footrest.
5. Sit down comfortably.

Always leave the feet on the footrests.
6 Driving

Climbing onto the vehicle (passenger, only applies to TRV):
1. After the driver has climbed on: place left hand on the driver’s shoulder.
2. Grip backrest with right hand.
3. Swing right leg over the seat and place right foot on right-hand footrest.
4. Sit down comfortably.
5. Hold on to the handles provided on the vehicle with both hands.

Always leave the feet on the footrests.

Climbing off:
1. Activate parking brake.
2. Stand up and swing right leg over the seat to the left-hand side.
3. Climb off the vehicle towards the left.

6.3 Starting / switching off the engine

WARNING
Provide adequate ventilation when operating the engine in closed rooms. Do not start or run the engine in a closed room without a suitable extraction system.

6.3.1 Starting petrol engine
1. Activate parking brake.
2. Shift to idle.

NOTE
The engine can also be started with an engaged gear if you additionally activate the foot brake or the hand brake when starting.

3. Turn ignition key to ON position.
4. Press starter button (do no accelerate while doing this).

CAUTION
Do not actuate the starter motor longer than eight seconds per starting process. If more starting processes are necessary: wait 15 seconds in between the starting processes to allow the starter motor to cool down.

5. Let the engine warm up.
6.3.2 Starting diesel engine

1. Activate parking brake.
2. Shift to idle.
3. Turn ignition key to ON position.
4. Wait until the preglow icon goes out on the dashboard.

**NOTE**
At temperatures below -10 °C, switch ignition off and switch on again afterwards, to preglow the glow plug once more. This facilitates starting at low temperatures.

5. Press starter button (do no accelerate while doing this).
6. If the engine does not start: move ignition key to OFF position and repeat starting process.
7. Let the engine warm up.

6.3.3 Switching engine off

1. Turn ignition key to OFF position.

6.4 Braking

**WARNING**
Excessive braking at high speeds leads to overheating of the brake fluid and premature wear of the brake pads. Thus, the brakes may fail unexpectedly.

1. Press foot brake pedal downwards to activate the front wheel and rear wheel brakes.
2. If the tyres lock: release brake briefly and brake again (intermittent braking).

**ATTENTION**
Do not drive with activated brake. Even with light pressure on the foot brake pedal or the brake lever, the brake pads will rub, and the brake disc and the brake fluid may overheat.
6 Driving

6.5 Parking

**NOTE**
Wherever possible, park the vehicle on level ground. If it is unavoidable to park on a slope: additionally shift to a drive position and lock the wheels with a suitable object.

1. Shift to idle.
2. Turn ignition key to OFF position.
3. Activate parking brake.

6.6 Driving manoeuvres

6.6.1 Driving around corners

- Reduce speed when turning into a curve.
- In curve, lean over the seat towards the inside of the curve.
- Support on the footrest which faces the outside of the curve.
- Shift weight towards steering direction.
- If the tyres lose ground contact: reduce speed and lean towards the side where the tyres are losing ground contact.
- Do not drive around tight bends.
- Increase speed evenly when leaving the curve.

Fig. 27
6.6.2 Dodging

- Release throttle control when the obstacle gets close.
- Turn handlebar.
- Do not accelerate while dodging.
- When steering, lean over the seat towards the inside of the curve.
- Support on the footrest which faces the outside of the curve.
- Shift weight towards steering direction.
- Do not brake as long as the emergency situation has not passed and the vehicle is under control.

6.6.3 Driving slopes

Driving uphill:
- Before the slope, switch back and accelerate, then keep steady speed.
- Lean forwards as far as possible.
- Stand up and lean forwards on steep slopes.
- If a slope cannot be driven entirely: turn carefully and drive back.
- If the vehicle stops: turn with a three-point turn.

Driving downhill:
- Slide backwards on the seat as far as possible.
- Shift to the gear for slow speed.
- Do not drive downhill in idle.

**WARNING**
Brake carefully to prevent rollovers.

- Brake slightly and release throttle control a little.
6 Driving

Crossing slopes:
- Drive slowly at steady speed.
- Shift weight towards the uphill side of the seat.
- Support on the uphill side footrest.
- Steer as if the vehicle would be driving into the mountain.
- If you have the impression that the vehicle is tilting: turn handlebar downhill. If this is not possible: stop and climb off on the uphill side.

6.6.4 Three-point turn

NOTE
Perform three-point turn when the vehicle stops unintentionally during uphill rides. Perform three-point turn before the vehicle starts rolling downhill backwards.

1. Stop, brake, and shift to idle.
2. Switch engine off.
3. Lean forwards.
4. Climb off on the uphill side of the vehicle.
5. Turn handlebar uphill as far as it will go.
6. Release brake a little. While doing this, hold on to the brake lever.
7. Let vehicle roll backwards with this turning angle until it reaches a slight downhill position.
8. Activate brake again.
10. Start engine and follow the instructions for downhill ride.
6.6.5 Crossing stretches of water

**WARNING**
The vehicle may only cross stretches of water up to a depth of 15 cm. When driving through deeper water, there is a risk of engine damage.

**ATTENTION**
If deeper stretches of water have been crossed, the vehicle shall be checked in an authorised Arctic Cat specialist repair shop.

**NOTE**
Engine damage caused by penetrating water are not covered by the Arctic Cat warranty.

- Avoid fast-flowing rivers. As the vehicle tyres have buoyancy, the vehicle may suddenly start floating.
- Check depth and current of the stretch of water before driving through it. When doing this, also look for boulders, tree trunks, and other hidden obstacles.
- Check if you will be able to leave the stretch of water again on the other side.
- Drive through the stretch of water slowly enough that no wave forms.
- If the vehicle gets stuck in the mud: free the vehicle by rocking back and forth.
- Brake after crossing the water and check if the brakes are functioning.

6.6.6 Skidding and slipping

Take the following measures when the vehicle starts skidding or slipping when driving on sand, ice, mud, or water:

- Turn handlebar towards the sliding direction.
- Do not brake as long as the vehicle is slipping.
- Shift weight forwards.

If the vehicle does not react to the steering movements:

- Reduce the speed.
- Slide forwards in the seat.
- Lean towards the turning direction.
- Turn handlebar.
6.6.7 Driving in cold weather

**WARNING**
Never drive on frozen lakes or rivers.

**WARNING**
Drive slowly and particularly carefully on surfaces covered with snow or ice. Be prepared that ground conditions may change quickly.

- Train driving on open snow and ice covered terrain before driving on snow or ice covered roads.
- Test whether the vehicle reacts to steering and braking manoeuvres on the respective ground.
- Check the vehicle before driving:
  - Can all control levers be moved freely and without obstruction?
  - Are the footrests, gear lever, foot brake pedal, and brake lever free of ice and snow?
  - Can the wheels move freely and without obstruction? (To do this, shift to idle and move the vehicle back and forth.)

**NOTE**
If the vehicle does not roll, the brake pads may be frozen to the brake discs.

**WARNING**
Never thaw frozen brakes pouring warm water over the brake pads or the brake caliper.

If the brakes are frozen:
- Take the vehicle to a warmer place to let the brakes thaw.

**NOTE**
Brake the brakes dry after thawing.
6.7 Adjusting the shock absorbers

NOTE
The shock absorber have five adjustment options to adapt the suspension to the different terrain and load conditions. If the suspension is too soft or too hard, the suspension can be adjusted in accordance with the following table.

Adjusting the suspension:
1. Remove dirt and deposits from the sleeve (1).
2. Relieve shock absorber.
3. Using a wrench out of the on-board tool kit, turn sleeve (1) to the desired position (refer to the following table).

WARNING
The suspension shall be adjusted identically on both sides of an axle.

<table>
<thead>
<tr>
<th>Position</th>
<th>Spring force</th>
<th>Adjustment</th>
<th>Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Weak</td>
<td>Soft</td>
<td>Light</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Stronger</td>
<td>Hard</td>
<td>Heavy</td>
</tr>
</tbody>
</table>
6 Driving

6.8 Loading the vehicle

WARNING
Observe the load capacity restrictions specified for the vehicle in the CoC.

When loading, observe the following items:
- The load may not affect the steering of the vehicle.
- The vision of the driver may not be impaired.
- Distribute the load evenly at the front and the rear as well as on the sides.
- Secure load against slipping.
- The braking distances will increase due to the higher vehicle weight. Adapt speed to the load.

6.9 Driving with trailer

WARNING
Observe the restrictions on support load and traction specified for the vehicle in the CoC.

The vehicle has a standard hitch fitted to the frame.

In the case of trailer operation, observe the following items:
- Do not overload the trailer.
- Secure load against slipping.
- The braking distances will increase due to the higher vehicle weight. Adapt the speed.
- Only transport persons in the trailer if the trailer has been authorised to do so.
- Avoid sudden acceleration, fast steering manoeuvres and sudden braking.
6.10 Removing and attaching passenger seat (only for TRV)

Removing passenger seat:
1. Pull both handles (1) backwards.
2. Position both handles (1) vertically.
3. Lift rear end of the seat.
4. Pull seat slightly backwards and lift out of the holding frame.

Attaching the passenger seat:
1. Insert both holding brackets of the passenger seat into the holding frame.
2. Press front part of the passenger seat downwards.
3. Push passenger seat forwards until the rear flaps of the passenger seat engage at the rear of the holding frame.
4. Position both handles (1) horizontally.
5. Push both handles (1) forwards as far as they will go.

**NOTE**
The rack and the cargo box are removed and attached in the same way.

6.11 Filling up

**WARNING**
Fuel is highly flammable. Fire at the fuel tank may lead to fire and explosion.
Do not fill up the vehicle in the vicinity of naked flames or burning cigarettes, and always stop the engine when filling up.
Ensure that no fuel is spilled, particularly on hot parts of the vehicle. Wipe spilt fuel up immediately.
Fuel expands when subjected to heat. In the case of a fuel tank which is too full, fuel may escape. Observe the specifications on the fuel tank.

1. Switch vehicle off.
2. Open fuel cap.
3. Fill in fuel of the quality specified below, maximally up to the lower edge of the filler neck.

Recommended fuel: Unleaded petrol, 95 octane.
6.12 Transporting the vehicle

When transporting, observe the following items:

- Transport the vehicle in its normal driving position (on all four wheels).
- Activate parking brake and engage a gear.
- Protect all components subject to contact with the lashing straps against scratching. To do this, use e.g. adhesive tape or soft cloths.
- Make sure that no components such as cables or brake lines are pinched.
- Only use suitable lashing straps, which comply with the relevant legislation.
- Tighten the lashing straps evenly.

6.13 Towing the vehicle

**NOTICE**

Only applies to vehicles with T3b approval.

**ATTENTION**

Make sure that the ignition is switched on; otherwise, low beam, rear lights, and indicators will not be available. Do not tow the vehicle when the electrical system has failed. When the engine is not running, there is no servo-assistance. Thus, higher force is required to brake and steer.

**ATTENTION**

Do no exceed a speed of 30 km/h when towing. Do not tow the vehicle more than 50 km.

**NOTICE**

In some countries, towing with a tow bar or tow rope is not permitted on public roads. Familiarize yourself with the rules on towing in the respective country.

1. Switch on the hazard warning lights (observe national rules).
2. Move the gear lever to gear position N (Neutral).
3. Make sure that the hand brake and the parking brake are released.
Notices on towing with tow bar

**ATTENTION**
The towing vehicle shall not be lighter than towed vehicle; otherwise, safe handling of the vehicle will no longer be possible.

**NOTICE**
The towing eyes of both vehicles should be located on the same side allowing a straight alignment of the tow bar. If it is not possible to avoid a diagonal position of the tow bar, take into account that the manoeuvrability is restricted.

Notice on towing with tow rope

**ATTENTION**
Use nylon ropes or nylon straps for towing to avoid abrupt tensile loads.

4. Attach tow bar or tow rope to one towing eye (1).
5. Tow the vehicle. When starting to move the towing vehicle make sure that the tow rope is tensioned.
6.14 Measures after an accident

**WARNING**
Do not continue driving if you detect damages. Take the vehicle to an authorised Arctic Cat specialist repair shop and have the damages repaired.

**NOTE**
The ignition and the function of fuel pump are interrupted by a tilt sensor as soon as the vehicle is inclined further than 60° to 70°. If the vehicle is straightened up, the ignition and the fuel pump will be switched on again.

- Check the vehicle for damages.
- Check for leaking fluids.
- Check steering for free movement.
- Check functioning of brakes.
7 Maintenance

7.1 General maintenance instructions

- Observe the maintenance instructions and maintenance intervals in the service booklet.
- Have any maintenance work not described in this manual carried out by an authorised Arctic Cat specialist repair shop.
- Only use operating materials authorised by Arctic Cat.
- Do not drive the vehicle if strange noises, vibrations or malfunctions occur. Have the vehicle checked in an authorised Arctic Cat specialist repair shop.
- The vehicle does not have any lubrication points.
- The vehicle can be lifted at any point of the underbody.

7.2 Checking the engine oil level

**ATTENTION**
The engine housing gets very hot during operation. Do not touch any engine parts. Wear suitable protective gloves.

**NOTE**
Park the vehicle on level ground to check the oil level.

Check engine oil level before every ride, as follows:
1. Remove seat (refer to section 4.20).
2. Remove left-hand panel.
3. Unscrew oil dipstick (1) from the engine housing and wipe with a clean cloth.
4. Screw oil dipstick (1) into the engine housing.
5. Unscrew oil dipstick (1) from the engine housing and read engine oil level on the oil dipstick (1). The engine oil level shall be within the ribbed surface (2).

**ATTENTION**
Only use fully synthetic engine oils from Arctic Cat.
6. If the engine oil level is too low: Refill engine oil. When doing this, observe the maximum fill level.
7. Screw oil dipstick (1) into the engine housing.
8. Attach left-hand panel.
9. Attach seat.

7.3 Checking the coolant level

**WARNING**

Never check the coolant level while the engine is hot or the cooling system is pressurised.

Check coolant level before every ride, as follows:
1. Unscrew two screws (1).
2. Remove cover (2).
3. Unscrew cover (3).
4. Check coolant level.

**NOTE**

The coolant shall cover the fins. If the coolant level is too low, do not drive the vehicle any more, and have the coolant refilled at an authorised Arctic Cat specialist repair shop.

5. Screw cover (3) into the orifice.
6. Place cover (2) onto the front fender and fasten with two screws (1).
7.4 Checking shock absorbers for perfect condition

NOTE
If the vehicle is operated in extremely cold weather (-23 °C or lower), a small amount of liquid may escape from a shock absorber. If only a small amount is leaking, it is not necessary to replace the shock absorber.

Check all shock absorbers once a week for the following items:
– Excessive liquid loss
– Cracks or fractures in the housing
– Bent shock absorber rod

If a defect is detected, have an authorised Arctic Cat specialist repair shop replace the shock absorber.

7.5 Checking the braking system

7.5.1 Checking the brake fluid level

WARNING
If the indicator is amber-coloured or white, have the brake fluid refilled at an authorised Arctic Cat specialist repair shop.

Check the brake fluid level at the inspection glass (1) before every ride.

The indicator in the inspection glass can have the following colours:
– Dark (tank is full)
– Amber (the tank is half full)
– White (the tank is empty)
7.5.2 Checking the parking brake

Check parking brake before every ride as follows:
1. Activate parking brake (refer to section 4.9).
2. Check if the vehicle can be moved.

NOTE
The parking brake must lock the wheels. If the vehicle can be moved, have the brakes repaired at an authorised Arctic Cat specialist repair shop.

7.5.3 Checking the brake lever lock

Check the brake lever lock before every ride as follows:
1. Activate and lock the hand brake (refer to section 4.8).
2. Check if the vehicle can be moved.

NOTE
The hand brake must lock the wheels. If the vehicle can be moved, have the brakes repaired at an authorised Arctic Cat specialist repair shop.

7.6 Checking protective rubber sleeves for perfect condition

Check all protective rubber sleeves at ball joints, tie rods and drive axles once a week as follows:
– Presence
– Wear
– Cracks
– Perforation

NOTE
If defects are detected, have an authorised Arctic Cat specialist repair shop replace the corresponding protective rubber sleeve.
7.7 Battery

The battery is installed underneath the seat.

For optimum performance and a service life as long as possible, the battery must be periodically cleaned and charged again after putting into operation.

The discharge of the battery may have e.g. the following causes:
- Changing ambient temperatures
- Quiescent current demand
- Corroding connections
- Self-discharge
- Frequent starts/stops
- Short engine running times
- Frequent use of the winch or the snow blade
- Longer operation at low speed
- Use of accessories with high power consumption

The following procedures are recommended for cleaning and care of sealed batteries.

**ATTENTION**

Observe all warnings added to the battery and the charger.

**NOTE**

Arctic Cat recommends the use of CTEK chargers for trickle charging or charging of the battery.

7.7.1 Trickle charging

**ATTENTION**

When using a charger without pulsed conservation of load, battery damage may occur after reaching the maximum charge capacity due to overcharge.

**NOTE**

A trickle charging is required for all batteries that are not used for longer than 2 weeks or are discharged.
Perform trickle charging as follows:
1. Position the charger and the battery in a well ventilated room. Do not connect the charger to a mains socket yet.
2. Connect charge connector of the charger to the charge socket on the steering head.
3. Connect mains connector of the charger to a mains socket.

When using the charger CTEK MXS 3600:
4. Press "MODE" button (1) until the trickle charging icon (5) is lit. The charging indicator (2) must be lit, too. The charging process begins.

**NOTE**
The CTEK XS 800 charger does not have any buttons.

**NOTE**
The charger charges the battery to up to 95 % of its charge capacity. Then, the trickle charging indicator (3) lights up and the charger will automatically start the charge conservation function.
If the battery voltage drops below 12.9 volts DC, the charger will start the charging process again.

![Fig. 38](image-url)
7.7.2 Charging

Charge battery as follows:
1. Position the charger and the battery in a well ventilated room. Do not connect the charger to a mains socket yet.
2. Connect charge connector of the charger to the charge socket on the steering head.
3. Connect mains connector of the charger to a mains socket.

When using the charger CTEK MXS 3600:
4. Press "MODE" button (1) until the charging icon (4) is lit. The charging indicator (2) must be lit, too. The charging process begins.

**NOTE**
The charger charges the battery to up to 95 % of its charge capacity. Then, the trickle charging indicator (3) lights up.
After the trickle charging indicator (3) lights up, charge the battery at least for another hour.
If, during the charging process, the battery heats up such that it cannot be touched, cancel the charging process and let the battery cool down. Continue the charging process afterwards.

When the battery is charged, disconnect the charger first from the vehicle and then from the mains socket.

**NOTE**
If the battery does not reach its full performance after the charging process, have the battery checked at an authorised Arctic Cat specialist repair shop.

7.7.3 Jump start

**WARNING**
Inadequate handling or inadequate connection of a battery may lead to serious injuries including chemical burns, electrical burns, or loss of sight as the consequence of an explosion. Remove rings and watches when working on the battery.

**NOTE**
Do not perform any jump start on a vehicle with a defective battery.
In case of an emergency, a jump start may be necessary to start a vehicle. In the case of a jump start, proceed as follows:

1. Remove battery cover and all terminal covers.

**WARNING**
Leaking or bulging batteries indicate a frozen battery or a short circuit. When detecting the condition of a battery, under no circumstance perform an external start of the vehicle nor charge the battery. There is the risk of explosion.

2. Check the battery for the following errors:
   - Signs of leaking electrolyte
   - Loose terminals
   - Bulging housing

**CAUTION**
If the on-board voltage and/or the ground polarity are not identical, this may lead to serious electrical damage.

3. Check if the recipient vehicle has the same on-board voltage and the same ground polarity as the donor vehicle. The donor vehicle must have a 12 VDC on-board voltage and an electrical system with negative ground.

4. Park the donor vehicle as close to the recipient vehicle as needed for easy connection of the jumper cables to the batteries.

5. Shift to idle.

6. Activate parking brake.

7. Switch off any electrical accessories.

8. Turn ignition key to OFF position.

**NOTE**
Make sure that all switches on the recipient vehicle are switched off.

**ATTENTION**
If the electrical accessories are not disconnected from the on-board power supply, this may lead to system damage due to voltage peaks during the jump start.

9. Disconnect all external devices such as e.g. mobile phones, navigation systems, and radios from the on-board power supply in both vehicles.

**NOTE**
Some jumper cables do not differ in colour. In this case, the clamps and cable ends are marked red and black.
10. Connect one clamp of the red jumper cable to the positive terminal of the recipient battery. Ensure that the second clamp of the red jumper cable does not have contact to any metal.
11. Connect the second clamp of the red jumper cable to the positive terminal of the donor battery.
12. Connect one clamp of the black jumper cable to the negative terminal of the donor battery.
13. Connect the second clamp of the black jumper cable to a not varnished metal surface of the engine or on the frame of the recipient vehicle. Make sure that the clamp is clamped far away from the recipient battery and form all components of the fuel system.
14. Start donor vehicle and let it run several minutes.
15. Start recipient vehicle and let it run several minutes before removing the jumper cables.
16. Remove the jumper cables in reversed order. While doing this, make sure that no short circuit is created via the contact of the clamps with bare metal.

7.8 Tyres

7.8.1 Checking the tyre pressure

NOTE
Have the battery and the electrical system checked at an authorised Arctic Cat specialist repair shop before the next putting into operation of the vehicle.

NOTE
A too low tyre pressure leads to premature wear and overheating of the tyre.

The correct tyre pressure ensures optimum driving comfort and maximum service life of the tyre.

Before driving, check the tyre pressure (e.g. with the tyre pressure gauge of the onboard tool kit):
1. Unscrew dust cap from the valve.
2. Check tyre pressure (on cold tyre) (refer to the following table).
3. If the tyre pressure does not coincide with the specification, correct tyre pressure.
4. Screw dust cap onto the valve.
7.8.2 Checking tyre condition

**WARNING**
Only fit the tyres specified in the CoC. Other tyres may have a negative impact on the handling of the vehicle.

Tyre type, tyre condition, and tyre pressure influence on the handling of the vehicle.

The front and rear axle may only be equipped with tyres of the same profile design.

Worn tyres have a particularly negative impact on handling the vehicle on wet ground.

Check condition of tyres before driving:
- Check the tyres for cuts, embedded objects, and other damage. If damages are detected, have an authorised Arctic Cat specialist repair shop replace the tyre.
**NOTE**
Observe the minimum tread depth specified by the law.

- Check the tread depth. Minimum tread depth $\geq 5$ mm. If the minimum tread depth is not there, have an authorised Arctic Cat specialist repair shop replace the tyre.

### 7.9 Lighting

**NOTE**
Residues of skin grease on the glass bulb will shorten the service life of a light bulb. If you have touched the glass bulb, it must be cleaned with a dry cloth prior to installation.

The nominal wattage of each light bulb is specified in the following table. When changing the light bulbs, always use light bulbs of the same wattage.

**NOTE**
Depending on the registration, the wattage of the lamps may differ.

<table>
<thead>
<tr>
<th>Light Source</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headlight</td>
<td>12 V/35 W/35 W</td>
</tr>
<tr>
<td>Taillight / brake light</td>
<td>12 V/5 W/21 W</td>
</tr>
<tr>
<td>Number plate lighting</td>
<td>12 V/5 W</td>
</tr>
<tr>
<td>Front indicator</td>
<td>12 V/10 W</td>
</tr>
<tr>
<td>Rear indicator</td>
<td>12 V/5 W</td>
</tr>
<tr>
<td>Position light</td>
<td>12 V/5 W</td>
</tr>
</tbody>
</table>

**NOTE**
If an LED illuminant is installed in a lamp, and this illuminant is defective, the entire lamp must be replaced.
7.9.1 Replacing headlight lamp

Replace headlight lamp as follows:
1. Remove connector from light bulb socket.
2. Pull protective rubber off of lamp housing.
3. Remove clamp from lamp housing.
4. Replace defective light bulb.
5. Secure light bulb in the lamp housing with the clamp.
6. Push protective rubber onto the lamp housing.
7. Insert connector into the light bulb socket.

7.9.2 Replacing number plate lamp

Replace number plate lamp as follows:
1. Unscrew two screws and remove lamp glass.
2. Pull defective light bulb out of lamp socket.
3. Insert new light bulb into the lamp socket.
4. Position lamp glass and fasten with two screws.

7.9.3 Replacing rear indicator lamp, taillight lamp, or brake light lamp

**NOTE**
The rear indicator lamp, the taillight lamp, and the brake light lamp are replaced in the same way. The procedure is described for changing the rear indicator lamp.

Replace rear indicator lamp as follows:
1. Turn lamp holder anti-clockwise as far as it will go and take it out of the lamp housing.
2. Press indicator lamp slightly into the lamp holder, turn anti-clockwise and pull it out.
3. Press new indicator lamp slightly into the lamp holder and turn clockwise as far as it will go.
4. Insert the lamp holder into the lamp housing and turn clockwise as far as it will go.
7.9.4 Replacing front indicator lamp and position light lamp

**NOTE**
The front indicator lamp and the position light lamp are replaced in the same way. The procedure is described for changing the front indicator lamp.

Replace indicator lamp as follows:
1. Turn lamp holder anti-clockwise as far as it will go and take it out of the lamp housing.
2. Pull defective light bulb out of lamp holder.
3. Insert new light bulb into the lamp holder.
4. Insert the lamp holder into the lamp housing and turn clockwise as far as it will go.

7.10 Replacing fuses

**ATTENTION**
Always replace defective fuses with fuses of the same type and rating. Only use fuses with the specified ampere rating.
Never bridge nor repair fuses. If the new fuse fails after a short time, have the vehicle checked immediately at an authorised Arctic Cat specialist repair shop.

**NOTE**
In all models except XR/Alterra, the fuses are located in a fuse box underneath the seat. In all XR/Alterra models, the fuses are located in a fuse box in the tank covering. In the event of an electrical defect, check the fuses first.

Replace fuse as follows:
1. Switch off all power consumers.
2. Remove seat (refer to section 4.20).
3. Press locking latches on both sides of the fuse cover and remove fuse cover.

**NOTE**
A defective fuse can be recognized by the interrupted fuse wire.

4. Remove defective fuse.
5. Insert spare fuse with the correct ampere rating.
6. Check functioning of the power consumer.
7. Position fuse cover and press downwards until it engages.
8. Install seat (refer to section 4.20).
8 Care

8 Care

8.1 Cleaning the vehicle

ATTENTION
Do not use any high-pressure cleaner to clean the vehicle.

ATTENTION
Heavy soiling of the cooler shall be removed by an authorised Arctic Cat specialist repair shop.

NOTE
Clean the vehicle periodically. In this way, you will retain the value and the appearance for a long time. Avoid direct sunlight on the vehicle while cleaning.

Clean the vehicle as follows:
1. Close exhaust system to prevent the ingress of water.
2. Remove coarse dirt with a soft water spray.
3. Spray a commercial cleaning agent onto heavily soiled parts and clean with clear water afterwards.
4. Let the vehicle dry after cleaning.

WARNING
Reduced braking effect due to wet brakes.
Brake wet brakes dry carefully.

5. After cleaning, drive a short distance until the engine has reached operating temperature.

NOTE
Due to the heat, the water will evaporate even on inaccessible positions of the engine and the braking system.

6. Apply a corrosion inhibitor to bare metal parts (exception: brake discs and exhaust system).
7. Apply a soft cleaning and care product to all plastic parts.
8.2 Shutting down the vehicle

**ATTENTION**
Before shutting the vehicle down for a longer period of time, it shall be maintained correctly at an authorised Arctic Cat specialist repair shop.

Shut down the vehicle as follows:
1. Clean vehicle (refer to section 8.1).
2. Remove battery.
3. Charge battery (refer to section 7.7.1).
4. Drain fuel of the tank into a suitable container, e.g. spare can.
5. Close exhaust system with a clean cloth.
6. Apply preservative oil to bare metal parts such as e.g. piston rods of the shock absorbers (exception: brake discs and exhaust system).
7. Park vehicle in a closed, dry and level room.

**NOTE**
If the vehicle is covered when shut down, do not use any airtight materials.

8.3 Putting the vehicle into operation

Put the vehicle into operation as follows:
1. Remove preservative products.
2. Remove cloth from exhaust system.

**ATTENTION**
Before installing the battery, turn the ignition key to OFF position.

3. Install a battery ready for operation.
4. Refill fuel (refer to section 6.11).
5. Perform checks before driving (refer to section 6.1).
### Technical data

**NOTE**
Depending on registration, equipment and model year, the technical data may differ from the specifications in this user manual. Request current data from the manufacturer or take them from the registration documents.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>DVX 300</th>
<th>XC 450</th>
<th>400 2x4</th>
<th>400 4x4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arctic Cat vehicle range</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>cc</td>
<td>270</td>
<td>443</td>
<td>366</td>
</tr>
<tr>
<td>Engine type</td>
<td>Cylinders/valves/injection</td>
<td>Four stroke / liquid cooled</td>
<td>Four stroke / liquid cooled</td>
<td>Four stroke / oil and air cooled</td>
</tr>
<tr>
<td>Gauge</td>
<td>Digital/analogue</td>
<td>Analogue</td>
<td>Digital</td>
<td>Digital</td>
</tr>
<tr>
<td>Odometer</td>
<td>Digital/analogue</td>
<td>Analogue</td>
<td>Digital</td>
<td>Digital</td>
</tr>
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<td>Tank capacity</td>
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<td>3.3/12.5</td>
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<td>4.3/16.3</td>
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<td>Transmission/gear selection</td>
<td>Automatic CVT with EBS, Hi/Lo Range, Reverse / neutral, forward, reverse (depending on vehicle)</td>
<td>Automatic CVT with forward and reverse position</td>
<td>Automatic CVT with EBS, Hi/Lo &amp; reverse position</td>
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<td>Hydr. disc</td>
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<td>Rear brakes</td>
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<td>Hydr. disc</td>
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</tr>
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<td>Front axle suspension</td>
<td>A-arm</td>
<td>Double A-arm</td>
<td>Double A-arm</td>
<td>Double A-arm</td>
</tr>
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<td>Pitch of spring – front axle</td>
<td>in/cm</td>
<td>6.1/15.5</td>
<td>7/17.8</td>
<td>7/17.8</td>
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<td>Swinging arm</td>
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<td>Pitch of spring – rear axle</td>
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<td>7/17.8</td>
<td>7/17.8</td>
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<td>23X8R12</td>
<td>24X8R12</td>
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<td>23X10R12</td>
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### Technical data

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<th>550i</th>
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<tr>
<td>Hydr. disc / brake lever lock and parking brake</td>
<td>Hydr. disc</td>
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<tr>
<td>Pitch of spring – front axle</td>
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<td>10/25.4</td>
<td>10/25.4</td>
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### Arctic Cat vehicle range

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# Technical data

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10 Registration information form

Change of address/ownership or warranty transfer

Arctic Cat stores the current address of the owner of the vehicle. This address allows Arctic Cat to notify the owner in the case of important safety information. Therefore, we ask you to immediately inform Arctic Cat if you move or if you sell the vehicle to another person. Please complete this form and send it to:

Arctic Cat GmbH
Industriestraße 43
5600 St. Johann/Pg.
Austria

This form can also be used to transfer the unused part of the original warranty to another person. Complete this form and send it to the address mentioned above. Attach a copy of the vehicle registration certificate.

Change of address ❑
Change of ownership ❑
Warranty transfer ❑

Change of address/ownership or warranty transfer to:

Name _____________________________________________________________

Address ___________________________________________________________

City / State (Province) / Postal code ______________________________________

Telephone number _________________________________________________

Year of manufacture and model of the ATV _________________________________

Vehicle identification number (VIN) ______________________________________
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WARNING
Improper use of the vehicle may lead to serious injuries or death.

Always:
● Apply the correct driving technique to prevent rollovers on slopes, off-road or in curves.
● Read and observe all warnings and operation instructions in the user manual.

Never:
● Drive without sufficient training nor without briefing.
● Drive at a speed that is too high in relation to your experience or to the ambient conditions.

Always wear protective equipment and a helmet that complies with the legal regulations.

Do not drive under the influence of alcohol or drugs.