

Owner's instruction manual Leffert FM-50-80-90 Transporter

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| Subject | Version | Attached files | Review date |
|--------------------|---------|----------------|-------------|
| FM-50-80-90 Manual | 0.2 | None | 14-02-2017 |

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Lees naast deze handleiding ook de meegeleverde, korte start handleiding en tevens de technische handleiding, beide in uw eigen taal.

Read addition to this instruction manual the short supplied reference guide and also the technical instruction manual, both available in your own language.

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Vehicle identification numbers

Record your vehicle's identification number and model label information in the spaces below. Remove the spare key and store this in a safe place. Numbers required when ordering spare parts from our manufactory or dealer or for reference in case the vehicle is stolen. Data can be found under the hood, against the bulkhead.

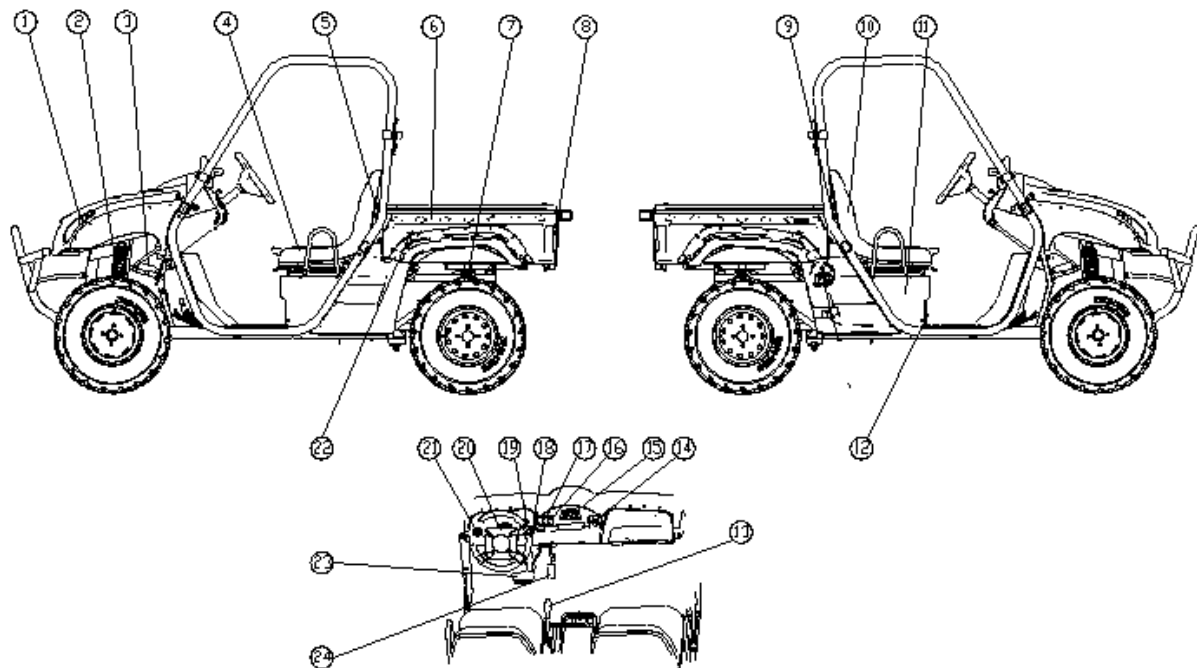
Vehicle Model Number:

Frame VIN:

Date of build:

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Manual

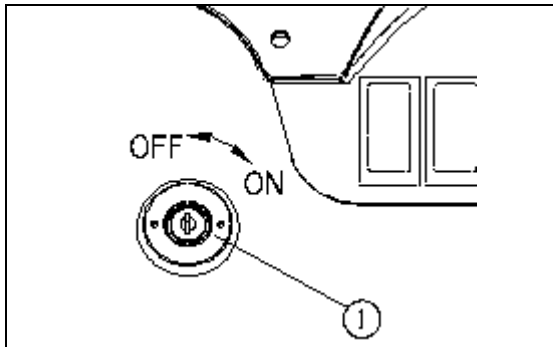


- | | | |
|---|------------------------------|----------------------------|
| 1. Headlights | 9.Passenger seat belt | 17.H/L switch |
| 2. Front shock absorber assembly adjusting ring | 10.Passenger seat | 18.Main switch |
| 3. Brake fluid reservoir | 11.Batteries | 19.Trumpet switch |
| 4. Driver seat | 12.Charging receptacle | 20.Steering wheel |
| 5. Driver seat belt | 13.Parking brake lever | 21.Light switch |
| 6. Cargo bed | 14.Auxiliary DC jack | 22.Cargo bed release lever |
| 7. Rear shock absorber assembly adjusting ring | 15.Multi-function meter unit | 23.Brake pedal |
| 8. Tail/brake lights | 16.Forward/Reverse switch | 24.Accelerator pedal |

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Control Functions

Main Switch



1. Main switch

Functions of the respective switch positions are as follows:

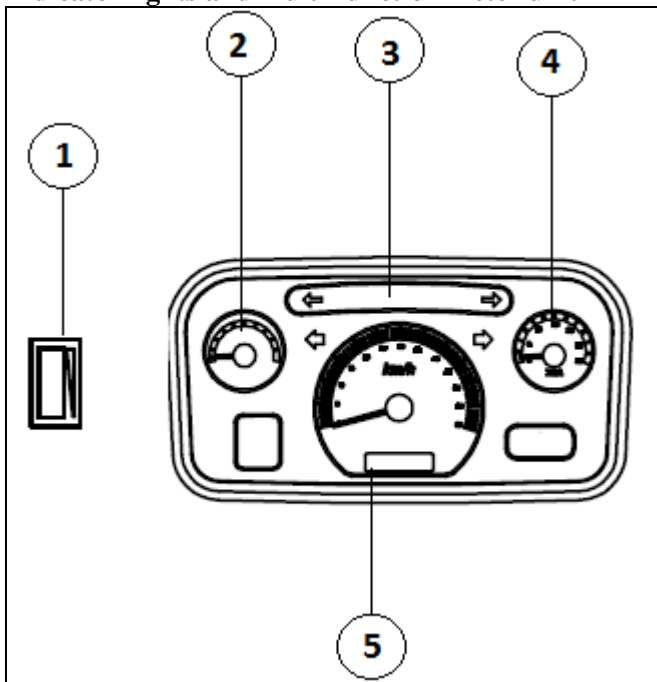
ON:

All electrical circuits are supplied with power, the headlights and taillights come on when the light switch is on.

OFF:

All electrical circuits are switched off. The key can be removed in this position.

Indicator lights and multi-function meter unit



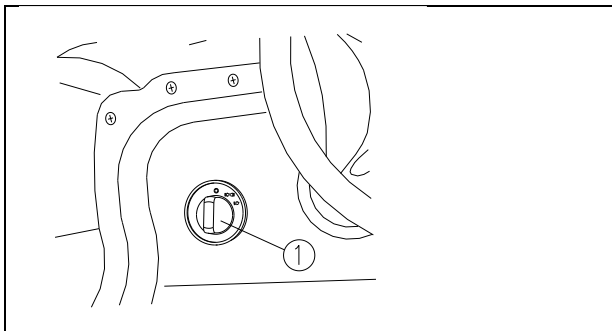
1. Battery power indicator light
2. Voltage light
3. Multi-function meter unit such as forward, reverse and turning indicator lights.
4. Ampère meter
5. Total kilometers driven of the Transporter.

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1. Turning lights indicator
2. Light beam indicator
3. Winch indicator
4. Windshield wiper indicator
5. Alarm light indicator

Switches



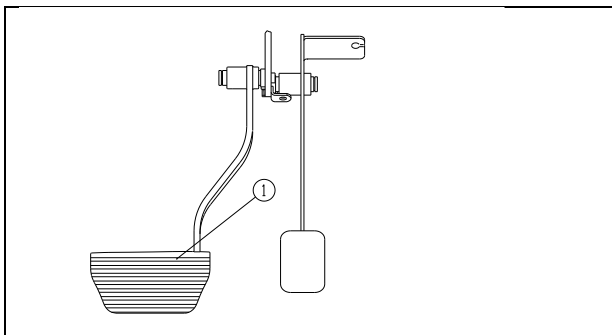
1. Light switch "OFF/☐/☐"

Light switch "OFF/☐/☐"

Set the switch to "☐" to turn on the low beam and the taillights.

Set the switch to "☐" to turn on the high beam and the taillights

Brake pedal



1. Brake pedal

Press the brake pedal to slow or stop the vehicle.

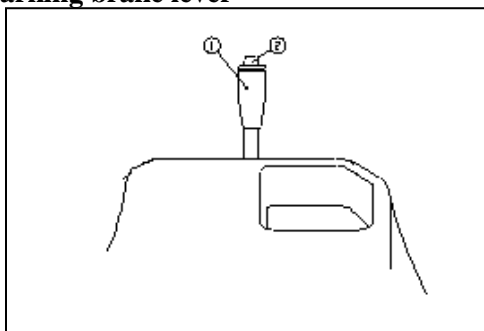
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Accelerator pedal

1. Accelerator pedal

Press the accelerator pedal down to increase vehicle speed. Spring pressure returns the pedal to the rest position when released. Always check that the accelerator pedal returns normally before starting the vehicle.

Parking brake lever



1. Parking brake lever
2. Hand brake button

The parking brake lever is located at the right side of the driver's seat. It will help to hold the vehicle from moving while parked. To set the parking brake, pull the lever up completely.

To release the parking brake, pull up on the lever, press the release button, and then push the lever all the way down. Spring pressure helps return the lever to the released position.

Be sure to fully release the parking brake before starting out. Failure to do so may result in poor performance and premature wearing of the rear brake.

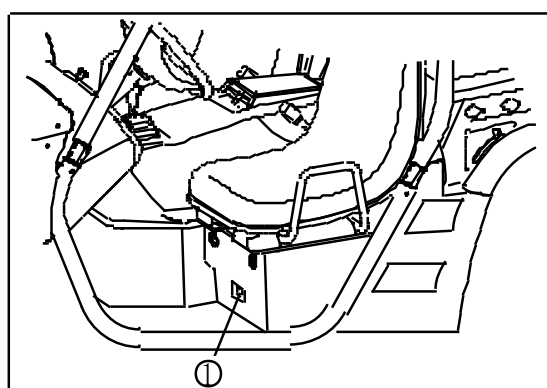
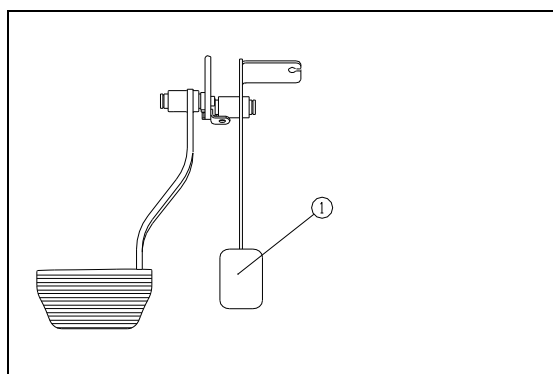
Shifting



WARNING

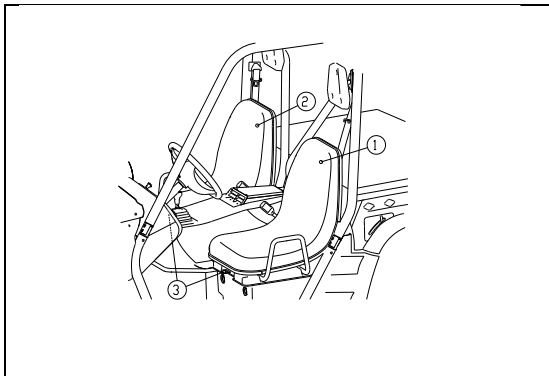
Stop the vehicle then change the shift, otherwise the controller will be broken.

Charging receptacle



1. Charging receptacle

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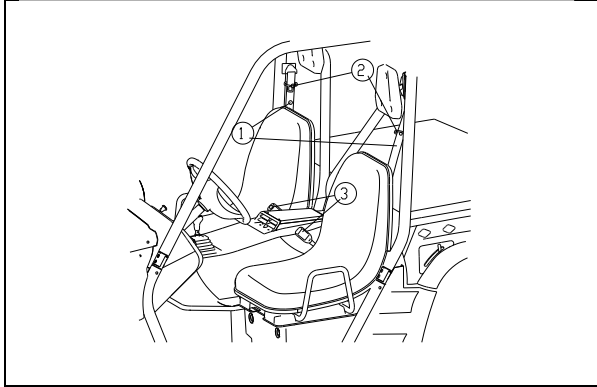
WARNING

The charger uses high voltages, failure could lead to serious injury's . Requested to keep it clean and undamaged.

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Seats

When you want to remove your seats you need to remove the two m8 screws. Then lift the front of the seat and slide the seat forward and up.



1. Driver seat
2. Passenger seat
3. Seat lock lever (×2)

Seat belts

This vehicle is equipped with four-point seat belts for both the operator and passenger. Always wear the seat belt while riding in the vehicle.

Put the lap portion of the belt low on your hips. Push down on the buckle end of the belt as you pull up on the shoulder part so the belt is comfortable across your hips.

Position the shoulder belt over your shoulder and across your chest. The shoulder belt should fit against your chest. If it is loose, pull on the loose cords from the belt.



WARNING

POTENTIAL HAZARD

Not wearing the seat belt.

Wearing the seat belt improperly.

WHAT CAN HAPPEN

There is increased risk of being killed or seriously injured in an accident.

HOW TO AVOID THE HAZARD

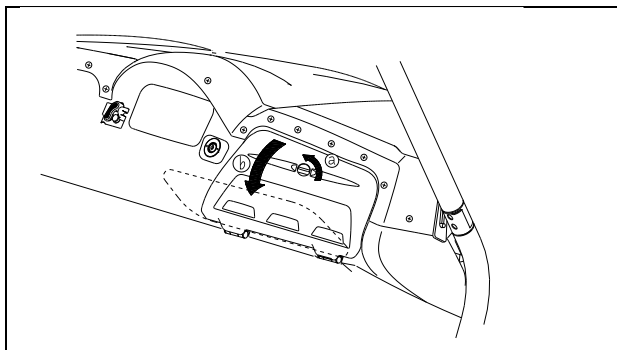
Always wear your seat belt when riding in the vehicle.

Be sure the seat belt is close-fitting across your hips and chest and is latched securely.

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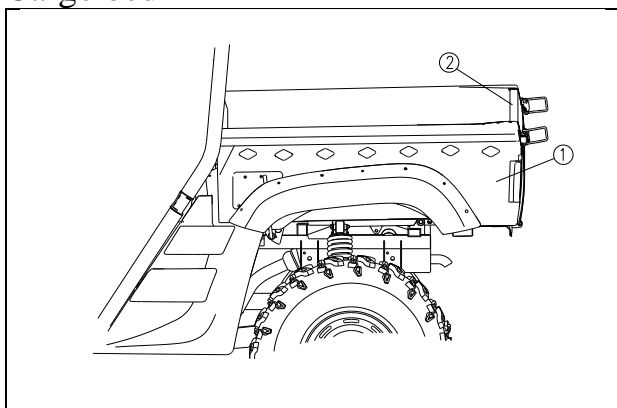
CAUTION:

To prevent from damage, do not put metal products, like tools or sharply edged products directly in the glove compartment. If they must be stored, wrap them in an appropriate cushion material.



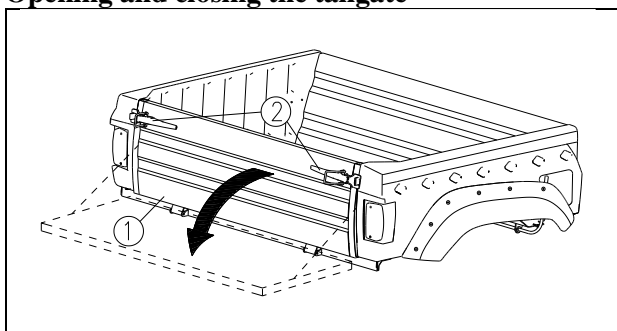
a. Unlock. b. Open.

Cargo bed



1. Cargo bed 2. Tailgate

Opening and closing the tailgate



1. Tailgate 2. Latch (×2)

To open

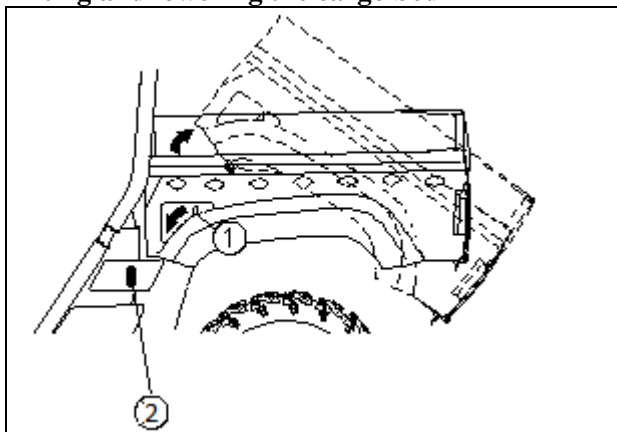
Unhook the latches, and then lower the tailgate.

To close

Place the tailgate in the original position, and then hook the latches.

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Lifting and lowering the cargo bed



1. Cargo bed release lever
2. Cargo bed switch lever

To lift

Push the cargo bed release lever down, and then slowly lift up the cargo bed until it stops.

To lower

Lower the cargo bed slowly to its original position and be sure it is locked into place.

Maximum load limit: 140kg (308lb)

Carrying people in the cargo bed is not allowed



WARNING

POTENTIAL HAZARD

Pinch points.

WHAT CAN HAPPEN

You or someone else could be pinched between the cargo bed and the frame when the bed is being lowered.

HOW TO AVOID THE HAZARD

Before closing the bed, be sure others are standing away from the vehicle.

Keep hands and fingers away from the pinch points between the bed and the frame.

POTENTIAL HAZARD

Carrying a passenger in the cargo bed

WHAT CAN HAPPEN

The passenger could fall, be thrown out, or be stuck by objects in the cargo bed.

HOW TO AVOID THE HAZARD

Never carry a passenger in the cargo bed. This cargo bed is designed to carry cargo only.



WARNING

POTENTIAL HAZARD

Overloading the cargo bed

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated maximum load limit for this cargo bed.

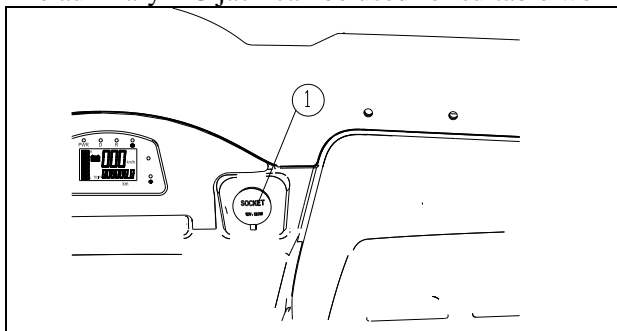
Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo. Allow greater distance for braking.

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Auxiliary DC jack

The auxiliary DC jack is located at the right side of the front panel. The auxiliary DC jack can be used for suitable work lights, radios, etc.



1. Auxiliary DC jack cap

Open the auxiliary DC jack cap, and then insert the accessory power plug into the jack.

Maximum rated capacity for the auxiliary DC jack:
DC 12 V, 120 W (10 A)

When the auxiliary DC jack is not being used, cover it with the cap.

CAUTION:

- Do not use accessories requiring more than the above maximum capacity. This may overload the circuit and cause the fuse to blow.
- If accessories are used without the engine running or with the headlights turned on, the battery will lose its charge and starting the engine may become difficult.
- Do not use an automotive cigarette lighter or other accessories with a plug that gets hot because the jack can be damaged.

Pre-operation checks should be made each time you use your vehicle. Get in the habit of performing the following checks in the same way so that they become second nature.



WARNING

Be sure the main switch key is removed before performing the pre-operation checks to prevent accidental starting, and apply the parking brake to keep the vehicle from moving.

Pre-operating checklist

- Before each use check the following:
 - Batteries
 - Tire condition
 - Steering system
 - Back-up buzzer
 - Pedal operation
 - Body and chassis

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WARNING

POTENTIAL HAZARD

Failure to inspect the vehicle before operating. Failure to properly maintain the vehicle.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the vehicle maintenance manual.

Tire condition



WARNING

POTENTIAL HAZARD

Operating this vehicle with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this vehicle, or operation of this vehicle with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.

HOW TO AVOID THE HAZARD

1. The tires models are listed below. Please confirm the tires dimension when doing replacement.

| | Size | Type |
|-------|--------------|----------------|
| Front | 25 ×8-12NHS | Street Fighter |
| Rear | 25 ×10-12NHS | Street Fighter |

2. The tires should be set to the recommended pressure:

- Recommended tire pressure
- Front 0.7Bar (0.70 kgf/cm², 10psi)
- Rear 0.98Bar (0.98 kgf/cm², 14psi)

Check and adjust tire pressures when the tires are cold.

Tire pressures must be equal on both sides.

3. Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions. The following are minimums:

Front 0.63Bar (0.63 kgf/cm², 9psi)
Rear 0.91Bar (0.91 kgf/cm², 13psi)

4. Use no more than the following pressures when seating the tire beads.

Front 2.5Bar (2.5 kgf/cm², 36psi)
Rear 2.5Bar (2.5 kgf/cm², 36psi)

Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

How to measure tire pressure

Use the tire pressure gauge.

NOTE:

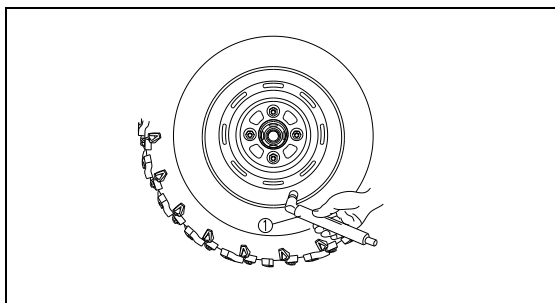
The tire pressure gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.

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Set pressure with cold tires.

Set tire pressures to the following specifications:

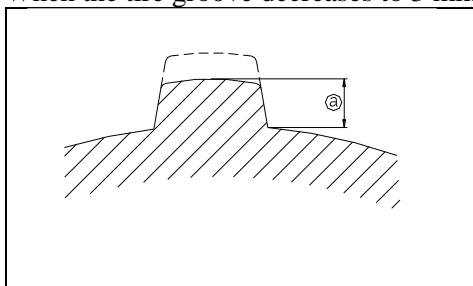
| | Recommended pressure | Minimum | Maximum |
|-------|---|---|---|
| Front | 0.7Bar(0.70 kgf/cm ² ,10psi) | 0.63Bar(0.63 kgf/cm ² , 9psi) | 0.77Bar(0.77 kgf/cm ² , 11psi) |
| Rear | 0.98Bar(0.98 kgf/cm ² , 14psi) | 0.91Bar(0.91 kgf/cm ² , 13psi) | 1.05Bar(1.05 kgf/cm ² , 15psi) |



1. Tire pressure gauge

Tire wear limit

When the tire groove decreases to 3 mm (0.12 inch) due to wear, replace the tire.



a. Tire wear limit

Steering system

Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling. Let a Frisian Motors dealer repair if necessary for proper usage

Front and rear brakes

Brake pedal

Check for correct brake pedal free play. If the brake pedal free play is incorrect, let a Frisian Motors dealer adjust it. Check the operation of the brake pedal. It should move smoothly and there should be a firm feeling when the brakes are applied. If not, have the vehicle inspected by a Frisian Motors dealer.

Brake fluid level

Check the brake fluid level.

Add fluid if necessary.

| |
|--------------------------------|
| Recommended brake fluid: DOT 4 |
|--------------------------------|


Brake fluid leakage

Check to see if any brake fluid is leaking out of the pipe joints or the brake fluid reservoir. Apply the brakes firmly for one minute. If there is any leakage, have the vehicle inspected by a Frisian Motors dealer.

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Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake system.

| |
|--|
|  WARNING |
| <p><u>POTENTIAL HAZARD</u> Driving with improperly operating brakes.</p> <p><u>WHAT CAN HAPPEN</u> You could lose braking ability, which could lead to an accident.</p> <p><u>HOW TO AVOID THE HAZARD</u> Always check the brakes at the start of every ride. Do not operate the vehicle if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have the vehicle inspected by our company or dealer.</p> |

Accelerator pedal

Check to see that the accelerator pedal operates correctly. It must operate smoothly and fully spring back to the idle position when released. Let a Frisian Motors dealer repair as necessary for proper operation.

| |
|--|
|  WARNING |
| <p>Before checking operation of the accelerator pedal, be sure the main switch is in the “OFF” position.</p> |

Seat belts

Make sure that both seat belts are not frayed or damaged.

The seat belt must move smoothly when pulled out and retract on its own when released. The latch plate should click securely into the buckle and release when the release button is pushed firmly. Wash off any dirt or mud which could affect operation. Have a Regard dealer repair as necessary for proper operation.

Fittings and fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take the vehicle to our manufactory or dealer or refer to the Service Manual for correct tightening torque.

Lights

Check the headlights and tail/brake lights to make sure they are in working condition. Repair as necessary for proper operation.

Switches

Check the operation of all switches. Let a Frisian Motors dealer repair as necessary for proper operation

Body and chassis

Before each use, visually inspect the vehicle body and chassis for damage and/or missing parts.

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OPERATION



WARNING

POTENTIAL HAZARD

Operating vehicle without being familiar with all controls.

WHAT CAN HAPPEN

Loss of control, which could cause an accident or injury.

HOW TO AVOID THE HAZARD

Read the Owner's Manual carefully. If there is a control or function you do not understand, ask a Frisian Motors dealer.

Starting

1. With the parking brake applied, turn the drive select switch to "FWD" for forward, or "REV" for reverse.

CAUTION:

Do not shift from "FWD" forward to "REV" reverse while the vehicle is moving.

2. Turn the main switch to "ON."



WARNING

Do not depress the accelerator pedal when turning on the main switch or the vehicle may suddenly start moving.

3. Check that your path is clear in the direction you intend to go, and slowly depress the accelerator pedal. The vehicle will start to move.

NOTE:

The parking brake automatically releases when the accelerator pedal is depressed.

STOPPING

To stop the transporter gradually press down on the brake pedal.

When the car has come to a stop, apply the parking brake lever and turn the main switch to "OFF."

CAUTION:

Do not hold the transporter on an incline with the accelerator – use the brakes

Parking

When parking, apply the parking brake to help prevent the vehicle from rolling.

Parking on a slope



WARNING

POTENTIAL HAZARD

Parking on a hill or other incline.

WHAT CAN HAPPEN

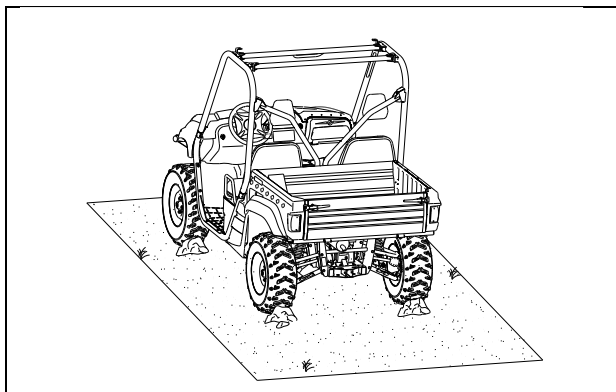
The vehicle could roll out of control, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Avoid parking on hills or other inclines. If you must park on an incline, apply the parking brake, and block the front and rear wheels with rocks or other objects.

Do not park the vehicle at all on hills that are so steep you could not walk up them easily.

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1. With the brakes applied, set the parking brake.

NOTE:

Like many other vehicles, the parking brake acts on the rear wheels.

For the parking brake to have the effect of braking all four wheels.

Accessories and loading

Accessories

Accessories can affect the handling and control of your vehicle. Keep the following in mind when considering an accessory or operating a vehicle which has accessories.

- Choose only accessories designed for your vehicle.
Our manufactory or dealer has a variety of genuine Frisian Motors accessories. Other accessories may also be available on the market. However, it is not possible for us to test all accessories, nor have any control over the quality or suitability of them. Choose a original Frisian Motors accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are operating could affect your ability to control the vehicle.
- Do not mount an accessory where it could interfere with your ability to control the vehicle. Examples include (but are not limited to) an object that limits your ability to turn the steering wheel or one that limits your view.
- Use extra caution when driving a vehicle with accessories. The vehicle may handle differently than it does without accessories.

Loading

Cargo or a trailer can change the stability and handling of a vehicle.

You must use common sense and good judgment when carrying cargo or towing a trailer.

Keep the following points in mind:

- Never exceed the weight limits shown. An overloaded vehicle can be unstable.

MAXIMUM LOADING LIMIT

- Vehicle loading limit (total weight of cargo, operator, passenger and accessories, and tongue weight): 340 kg (639 lb)
- Cargo bed: 140 kg (308 lb)
- Load cargo in the cargo bed as close to the center of the vehicle as possible and tie it down using the cargo hooks equipped on the cargo bed.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

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WARNING

POTENTIAL HAZARD

Overloading this vehicle or carrying improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this vehicle.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo. Allow greater distance for braking.

Never carrying people in the cargo bed.

Driving your vehicle

Getting to know your vehicle

This off-highway utility vehicle will handle and maneuver differently from an ordinary passenger car or other vehicle.

Before you begin to use your vehicle, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information. Please also read all caution and warning labels on your vehicle.

This vehicle is designed for the operator and one passenger. The driver and passenger must always wear a seat belt. Never carry passengers in the cargo bed.



WARNING

POTENTIAL HAZARD

Not wearing the seat belt.

Wearing the seat belt improperly.

WHAT CAN HAPPEN


There is increased risk of being killed or seriously injured in an accident.

HOW TO AVOID THE HAZARD

Always wear your seat belt when riding in the vehicle.

Be sure the seat belt is close-fitting across your hips and chest and is latched securely.

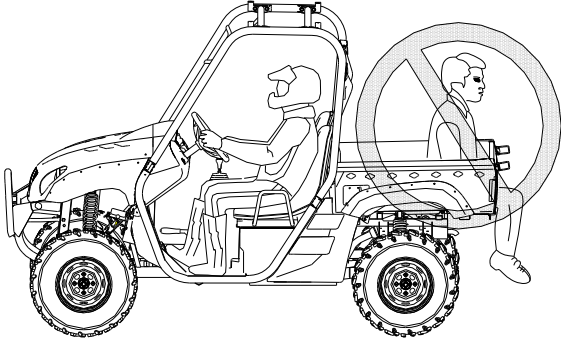
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WARNING


POTENTIAL HAZARD
Carrying a passenger in the cargo bed.

WHAT CAN HAPPEN
The passenger could fall or be struck by objects in the cargo bed.

HOW TO AVOID THE HAZARD
Never carry a passenger in the cargo bed. The cargo bed is designed to carry cargo only.



The total weight of operator, passenger, accessories, cargo, and the vehicle itself must not exceed 1040kg (2292lb). Carrying a passenger and cargo can affect vehicle handling.


WARNING

POTENTIAL HAZARD
Overloading this vehicle or carrying improperly.

WHAT CAN HAPPEN
Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD
Never exceed the stated load capacity for this vehicle.
Cargo should be properly distributed and securely attached.
Reduce speed when carrying cargo. Allow greater distance for braking.
Always follow the instructions in your Owner's Manual for carrying cargo.

The driver and passenger must always wear a seat belt.

Learning to operate your vehicle

You should become familiar with the performance characteristics of the vehicle in a large, flat area that is free of obstacles and other vehicles. Practice control of the accelerator pedal, brakes, steering. Drive first at slow speed and become comfortable at that speed before gradually increasing your speed. Become familiar with the way the vehicle feels in low and high ranges. Also practice driving in reverse. Take the time to learn basic operation before attempting more difficult maneuvers.

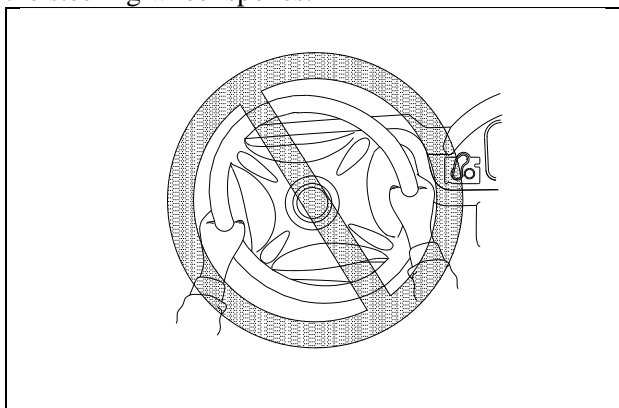
Turning your vehicle

It is possible for the vehicle to roll over or go out of control if you attempt sharp, high-speed turns. You should also be careful making sharp turns on rough terrain. Do not attempt to turn around or make abrupt maneuvers on slopes.

Position your hands on the steering wheel so that your thumbs and fingers do not wrap around the wheel. This is particularly important when driving in rough terrain. The front wheels will move right and left as they respond to the terrain, and this movement will be felt in the steering wheel. A sudden jolt could

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wrench the steering wheel around, and your thumbs or fingers could be injured if they are in the way of the steering wheel spokes.

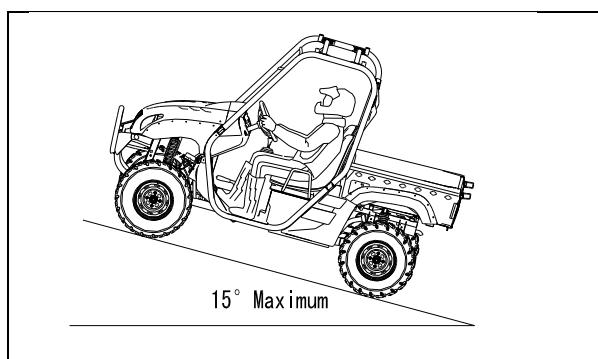


Braking

Braking ability is affected by the type of terrain. In most cases, gradually application of the brakes is more effective than abrupt braking, particularly on loose surfaces like gravel.

Always allow for greater braking distance on rough, loose, or slippery surfaces.

Maximum slope angle: 15°



Choose carefully which hills you attempt to climb. Avoid hills with slippery surfaces or ones where you will not be able to see far enough ahead of you.



WARNING

POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

HOW TO AVOID THE HAZARD

Never operate your vehicle on hills too steep for it or your abilities. Never operate vehicles on hills steeper than 15°.

Do not drive across the face of a hill. Go straight up the hill.

Practice on smaller hills before attempting large hills.

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Going downhill

Check the terrain carefully before going down a hill. When possible, choose a path that lets you drive your vehicle straight downhill. Avoid sharp angles that could allow the vehicle to pitch or roll over. Carefully choose your path and drive no faster than you will be able to react to obstacles that may appear.



WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the vehicle to overturn.

HOW TO AVOID THE HAZARD

Always check the terrain carefully before you start down any hill.

Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side.

Go straight down the hill where possible.

Riding over rough terrain

Operating over rough terrain should be done with caution. Look for obstacles that could cause damage to the vehicle or could lead to a rollover or accident. Avoid jumping the vehicle as injury, loss of control, and damage to the vehicle could occur.



WARNING

POTENTIAL HAZARD

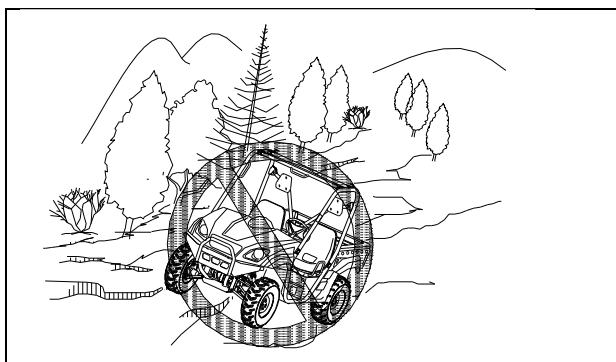
Failure to use extra care when operating this vehicle on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react. Could result in the vehicle overturning or going out of control.

HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the vehicle.



Riding in brush or wooded areas

When operating in areas with brush or trees, watch carefully on both sides and above the vehicle for obstacles such as branches that the vehicle might hit, causing an accident, or for brush that might enter the vehicle as you pass and strike the driver or passenger. Never hold onto the enclosure so your hand is outside the vehicle. Hold only onto the handgrip inside the enclosure.


Encountering obstacles on the trail

If you can't go around an obstacle such as a fallen tree trunk or a ditch, stop the vehicle where it is safe to do so. Set the parking brake and get out to inspect the area thoroughly.

Look from both your approach side and the exit side. If you are assessed to continue safely, decide the path that will allow you to get over the obstacle at as close to a right angle as possible to minimize

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vehicle tipping. Go only fast enough to maintain your momentum but still give yourself plenty of time to react to changes in conditions. If there is any question about your ability to maneuver safely over the obstacle, you should turn around, if the ground is flat and you have the room, or back up until you find a less difficult path.

|  WARNING |
|--|
| <u>POTENTIAL HAZARD</u> Improperly operating over obstacles |
| <u>WHAT CAN HAPPEN</u> Could cause loss of control or a collision. Could cause the vehicle to overturn. |
| <u>HOW TO AVOID THE HAZARD</u> Before operating in a new area, check for obstacles. Use extreme caution when operating over large obstacles, such as large rocks or fallen trees. |

Cleaning

Clean the vehicle with water, never use the high pressure washer for cleaning. The pressure washer could damage the electric parts. Only clean the body parts with water, do not clean any electrics with water, use a dry cloth to clean dirt of electric parts. Make sure no water gets inside the cabin.