HUNTER CARAVAN USER AND MAINTENANCE MANUAL

This manual has been prepared to ensure the safe, efficient, and long-lasting use of your towable caravan. It is recommended that you read the entire manual carefully before using the caravan.

2. GETTING TO KNOW THE CARAVAN

- Technical information regarding the caravan and introduction of its basic components
- General descriptions of interior and exterior equipment

3. TOWING AND DRIVING INSTRUCTIONS

3.1 Choosing the Appropriate Tow Vehicle

- A tow vehicle suitable for the caravan model must be used.
- For NTR 2X - 3X – 4X models, 4x4 vehicles with a minimum 2.0 engine displacement are recommended.
- For NTR 5X models, 4x4 vehicles with a minimum 2.5 engine displacement are recommended.
- The vehicle's drawbar must be TÜV-approved, registered in the vehicle license, and suitable for towing a caravan.
- The mechanical connections of the tow ball mechanism on the vehicle must be secure and robust.
- Signaling cable and pin connections on the vehicle must be made correctly.
- On some vehicles, signal interference may occur when the caravan is connected; in such cases, appropriate module equipment must be used.

3.2 Coupling Steps and Driving Safety

- It is strictly forbidden to carry passengers inside the towable caravan during travel. This situation is both dangerous and contrary to regulations.
- The coupling connection must fully seat onto the vehicle's tow ball. The coupling, lowered with the help of the jockey wheel, closes automatically when it seats on the ball. It must be checked manually to ensure it is fully seated. If equipped, the stabilizer handle should be lowered to increase driving safety.
- The pin connection between the vehicle and the caravan must be made correctly; stop, parking, brake, and indicator lights must be checked one by one.
- The jockey wheel must be in the fully raised position.
- The handbrake must be in the down (released) position. Otherwise, the brakes will remain locked, the brake linings will wear out, and driving safety will be compromised.
- The safety cable must be properly attached to the vehicle.

Before hitting the road:

- The gas cylinder valve and all gas valves must be closed.
- The button on the Truma crash-sensor regulator must be in the pressed position. In the event of sudden braking, this button pops out to automatically cut off the gas flow.
- The locks of all drawers must be closed.
- The bathroom door must be closed.
- The pop-up roof must be closed, and its internal and external locks must be secured.

3.3 Driving Rules and Loading

- The maximum speed when driving with a caravan should be 100 km/h.
- Bends and corners must be entered at low speed.
- The maximum loading capacity is specified on the caravan's front plate and the vehicle compliance form. Exceeding these limits:
    - Endangers driving safety
    - Damages mechanical parts
- Load distribution must be balanced. Excessive front or rear loading poses a serious driving risk.
- When descending from high-altitude areas, a break should be taken every 15 minutes as recommended to prevent the brakes from overheating. Otherwise, brake performance may decrease, and wheel lugs may loosen.

3.4 Additional Pre-Driving Checks

- Tire pressures must be checked (40 PSI).
- Wheel lugs should be checked at regular intervals during driving.

When parking on sloped terrain:

- The handbrake must be engaged.
- Wheel chocks must be placed behind the tires.

☑ **Note**

Compliance with these instructions is mandatory for safe driving, mechanical durability, and legal compliance.

4. SETUP AT THE CAMPSITE

4.1 Parking and Positioning

- The caravan should be parked on hard and level ground as much as possible.
- After the parking process, the stabilizer jacks on the caravan are extended, and the caravan is leveled using the crank handle. This reduces the load on the springs.
- Stabilizer jacks must not be used as jacks for lifting. The load capacity of each stabilizer jack is 500 kg.
- On soft ground (soil, grass, sand, etc.), it is recommended to place wide-based blocks under the stabilizer jacks.
- The caravan should be positioned considering the wind direction.

4.2 Detaching from the Tow Vehicle

- The caravan must be detached from the tow vehicle while the handbrake is engaged.
- Before detaching the coupling section, it must be separated from the tow ball by raising it using the crank handle on the jockey wheel.
- The safety cable and signaling cable must be disconnected from the vehicle.
- Ensure that the caravan does not move after the tow vehicle has been separated.
- Care must be taken to keep hands, feet, and clothing away from moving parts during the detachment process.

4.3 Leveling (Spirit Level Adjustment)

- The lateral and longitudinal balance of the caravan must be checked with a spirit level or an integrated level indicator.
- Where necessary, leveling should be carried out using under-wheel chocks.
- Stabilizer jacks must be used solely for providing stability.

4.4 Wheel Securing

- Wheel chocks must be placed in front of and behind the wheels after the caravan is parked.
- The use of chocks is mandatory on sloped terrain.

4.5 Electrical Connection

- The caravan's electrical system must be turned off before making the external electrical connection.
- The extension cords used must be suitable for outdoor use and grounded.
- The residual current device (RCD) must be checked after the electrical connection is made.

4.6 Water and Wastewater Connections

- The fresh water hose must be a hose suitable only for drinking water.
- The wastewater outlet must be connected to designated drain points at the campsite. Alternatively, its valve should be opened and emptied at drainage areas after camping.
- Hose connections must be checked for leaks.

4.7 Gas System Control

- The hose and regulator must be checked before opening the gas cylinder connections.
- A gas leak check must be performed after the gas connection is made.
- Gas appliances must not be operated for long periods in enclosed spaces.

4.8 Awning and Exterior Equipment

- Wind conditions must be checked before opening the awning.
- The awning must be kept closed during strong winds and heavy rain.
- Awning legs should be secured to the ground using pegs as much as possible.

- Detailed information regarding awning use is available in the awning user manual.

4.9 Safety Checks

- Doors, windows, and roof hatches must be checked to ensure they are properly opened and secured.
- Ensure that the fire extinguisher and first aid kit are accessible.

5. ELECTRICAL SYSTEM

The caravan electrical system consists of two separate systems: 220V AC and 12V DC. These systems are independent of each other but are designed to work together. Electrical diagrams are located on the inside of the panel.

5.1 220V Electrical System (Mains Electricity)

- The 220V system operates via the external electrical connection found at campsites.
- The caravan's main electrical switch must be off before making the external electrical connection.
- Cables and sockets used must be grounded and suitable for outdoor use.
- The 220V system powers the sockets, battery charger, and certain fixed equipment.
- The residual current device (RCD) and automatic circuit breakers must be active.
- Solar panels are auxiliary products that support the system's electricity.
- To prevent your batteries from draining completely, you should charge your caravan with 220V before camping and at regular intervals. Otherwise, you may experience energy problems during camping.

⚠️ **Warning:** No unauthorized intervention should be made on the 220V system. In case of failure, an expert service center must be contacted. Products added to the system by the customer may both damage the system and void your caravan's warranty.

5.2 12V Electrical System

- The 12V system operates via the caravan battery.
- Interior lighting, water pump, ventilation fans, and certain control panels are powered by the 12V system.
- When an external 220V connection is made, the battery charger automatically charges the battery.

5.3 Battery Information

- It is recommended to use deep-cycle (Deep Cycle Gel or Lithium) type batteries in the caravan.
- The battery must not be discharged completely during use.
- If it will not be used for a long time, the battery connection should be disconnected or charged regularly.
- Battery terminals must be clean and tight.

⚠️ **Warning:** Care must be taken not to reverse the terminals during battery connections.

5.4 Fuse System

- The caravan's electrical system is protected by fuses.
- There are separate fuse groups for 220V and 12V systems.
- In the event of a blown fuse, the fuse must not be replaced before the underlying cause is resolved.
- Only fuses with the same amperage rating must be used.

5.5 General Safety Warnings

- All systems must be turned off before maintenance or repair is carried out on the electrical system.
- Sockets and electrical equipment must not be touched with wet hands.
- No unauthorized modifications should be made to the electrical wiring.
- Using equipment that exceeds the inverter rating damages both the cable wiring and the device. If care is not taken, it can lead to larger problems.

6. WATER AND PLUMBING

The water and plumbing system in the caravan consists of three main sections: fresh water, wastewater, and the WC system. The system operates with a water pump powered by 12V electricity.

6.1 Fresh Water System

- The fresh water tank must be filled only with water suitable for drinking water.
- A fresh water hose must be used during water filling, and it must not come into contact with wastewater hoses.
- In weather conditions where there is a risk of frost, the fresh water tank and plumbing must be drained.
- Water levels must be checked regularly.

⚠️ **Warning:** Chemicals or harmful substances must not be added to the fresh water tank.

6.2 Wastewater System

- Water coming from the sinks and showers is collected in the wastewater tank.
- Wastewater must only be discharged at designated wastewater disposal points in campsites.
- The caravan must not be used while the wastewater tank is full.
- The tank must be cleaned at regular intervals.

6.3 Water Pump

- The water pump operates via the 12V system.
- The pump activates automatically when the tap is opened.
- In weather conditions with a frost risk, the caravan ambient temperature must be brought to a certain level before operating the water pump; the water pump should be operated afterward.

- It must not be operated without water.
- Pump noise and pressure should be checked after prolonged use.

⚠️ **Warning:** In case of pump failures, the system must not be forced, and an authorized service center must be consulted.

6.4 WC System

- The WC in the caravan is of a chemical or cassette type.
- Only chemicals suitable for caravan WCs must be used in the WC holding tank.
- WC waste must only be discharged at special disposal points.
- The holding tank must be rinsed with fresh water after emptying.
- Refer to the toilet user manual for detailed information.

6.5 General Hygiene and Maintenance

- The water plumbing must be checked regularly.
- The fresh water tank must be disinfected after long-term use.
- Hoses and connections must be checked for leaks.

7. KITCHEN AND GAS SYSTEM

7.1 Using the Gas Hob

- The gas hob must only be used when the caravan is stationary and in a leveled position.
- Before operating the hob, it must be checked that the gas valves are open.
- The hob must be attended to during ignition; the gas must not be left open before the flame lights up.
- After the cooking process is completed, the hob knobs and the main gas valve must be closed.
- The gas hob must strictly never be used while in motion.

7.2 Safety Precautions

- Gas appliances must not be used without providing adequate ventilation inside the caravan.
- In case of suspected gas leaks, electrical switches must not be used, open flames must not be lit, and the environment must be ventilated immediately.
- Gas installation, hoses, and connection points must be checked at regular intervals.
- A gas detector and fire extinguisher must be kept inside the caravan and must be in working order.
- The gas cylinder must be secured in accordance with the manufacturer's instructions, and only the appropriate type of regulator must be used.

8. HEATING & COOLING

8.1 Using the Heater and Air Conditioner

- The heater and air conditioner must only be used in accordance with the manufacturer's instructions.
- Before operating the appliances, it must be checked that the ventilation vents are open and clean.
- The heater and air conditioner must not be left running for a long time without people inside the caravan.
- When using an electric air conditioner, the capacity of the connected energy source must be checked.
- Adequate ventilation must be provided inside the caravan while gas or diesel heaters are operating.
- The use of external air conditioners and fixed heating systems while in motion is not recommended.
- In weather conditions where there is a risk of frost, the combi boiler's Frost Control activates and drains the water inside the container. In these cases, ambient temperature should be provided, and the frost control lever should be reset to prevent water loss.
- You can find detailed information about heaters and air conditioners in their respective user manuals.

8.2 Energy Saving Tips

- Caravan doors and windows must be kept well-insulated to prevent unnecessary heat loss or hot air entry.
- Heating and cooling systems should be operated at the required temperature level, and excessive use should be avoided.
- Utilizing natural heating in sunny weather, and using shades and awnings in hot weather, reduces energy consumption.
- The temperature setting should be optimized for lower energy consumption during night hours.
- LED lighting and energy-efficient appliances should be preferred during long-term stays.

9. ❄️ REFRIGERATOR – GENERAL USE AND INFORMATION

Information

The Thetford brand refrigerator in the caravan operates solely on a 12V electrical system. The appliance is specially designed for caravan use.

🔋 Operating System (12V)

- The refrigerator is powered via the caravan's battery system.
- When an external 220V connection is made, the battery is charged; the refrigerator continues to operate on 12V.

⚠️ **Warning:** The battery level must be checked regularly while the refrigerator is running. A low battery level can affect the performance of the refrigerator.

⚠️ Rules of Use

- The refrigerator works more efficiently when the caravan is in a flat and level position.
- For adequate cooling upon first operation, running it in advance is recommended.
- The door should not be opened frequently without reason.
- Hot food and drinks must not be placed in the refrigerator.

🔌 Energy and Battery Warnings

⚠️ **Important:** The refrigerator can consume the battery quickly when operated for a long time. For long-term stationary stays, an external energy source or solar panel support is recommended. The refrigerator must be turned off when the battery voltage drops to a critical level.

🧼 Cleaning and Hygiene

- Interior surfaces must be cleaned at regular intervals with a soft and damp cloth.
- Abrasive and chemical cleaning products must not be used.
- If it will not be used for a long time, the refrigerator must be emptied, and its door left ajar.

🚫 Misuse

- The refrigerator must not be used for deep freezing purposes (unless the model is suitable).
- No unauthorized intervention should be made on the electrical wiring or on the refrigerator.

☑ Note

Correct use of the Thetford 12V refrigerator preserves battery life, reduces energy consumption, and ensures the long-lasting operation of the appliance. Use the refrigerator's user manual for detailed information.

10. SAFETY INSTRUCTIONS

10.1 Fire and Gas Safety

- At least one appropriate type of fire extinguisher must be kept in the caravan and checked regularly.
- The gas cylinder, regulator, hose, and connection points must be periodically checked.
- Adequate ventilation must be provided inside the caravan while gas appliances are operating.
- In case of a suspected gas leak; the gas valve must be closed immediately, electrical appliances must not be used, and open flames must not be lit.
- The use of cigarettes, candles, or open flames inside the caravan must be done in a controlled and careful manner.

- Fire detection and gas detectors must be checked at regular intervals to ensure they are in working order.

10.2 Emergencies

- In an emergency, the caravan must be immediately moved to a safe area, and all passengers must be evacuated.
- In case of fire or serious gas leaks, the 112 Emergency Call Center should be contacted.
- The first aid kit must be kept in an easily accessible place inside the caravan.
- Emergency exit doors and windows must be kept clear and usable at all times.
- Authorized service support must be obtained for serious faults related to electrical, gas, or water systems.

11. MAINTENANCE AND PERIODIC CHECKS

Regular maintenance ensures the safe, efficient, and long-lasting use of the caravan. The following checks must not be neglected.

11.1 Daily Checks

- Check that gas valves are closed.
- Electrical connections and sockets must be visually inspected.
- Fresh and wastewater levels must be checked.
- Doors, windows, and ventilation vents must be verified to be closed and secure.
- The general condition of the tires and the tightness of the wheel lugs must be checked before travel.
- Drawbar, safety cable, and electrical socket connections must be checked.

11.2 Monthly Checks

- Gas hoses, the regulator, and connection points must be checked for tightness/leaks.
- Battery level and connection terminals must be checked.
- The brake system and handbrake mechanism must be reviewed.
- Tire pressures must be adjusted according to the manufacturer's recommendations.
- Water plumbing, taps, and hoses must be checked against leaks.
- Fire extinguisher, gas, and smoke detectors must be tested.

11.3 Annual Checks

- The gas installation must be checked in detail by authorized persons.
- Brake, axle, and suspension systems must be inspected by a professional service center.
- Electrical installation and fuse systems must be checked.
- Tires must be evaluated for tread depth, cracks, and deformation.
- Sealing gaskets, roof, and body connections must be checked.
- Parts deemed necessary must be renewed in accordance with the manufacturer's recommendations.

12. CLEANING AND STORAGE

Regular cleaning and correct storage ensure the hygienic, safe, and long-lasting use of the caravan.

12.1 Interior and Exterior Cleaning

Interior Cleaning:

- Caravan interior surfaces, furniture, and floors must be cleaned with cleaning products suitable for the caravan.
- Kitchen and bathroom areas must be hygienically cleaned after each use.
- The refrigerator must be emptied, cleaned, and its door left ajar if it will not be used for a long time.
- The wastewater tank must be emptied and cleaned at regular intervals.
- Ventilation vents and filters must be cleared of dust and dirt.

Exterior Cleaning:

- The exterior surface of the caravan must be washed with a soft brush and non-abrasive cleaning products.
- The roof, awning, and sealing gaskets must be regularly checked and cleaned.
- The lower chassis and axle area must be cleared of mud and dirt.
- The caravan must be completely dried after cleaning.

12.2 Winterization Recommendations

- If the caravan will not be used for a long time during the winter period, the water system must be completely drained.
- The gas cylinder must be closed or safely disconnected and stored.
- Salt is used on roads to prevent ice formation in winter. This causes corrosion of the metal parts on the chassis and body. Especially in winter, it is necessary to clean the caravan thoroughly with fresh water after every journey.
- The battery should be removed or protected by charging it regularly.
- The caravan should be stored in a dry, well-ventilated, and, if possible, enclosed area.
- Blocks/chocks should be used so that the tires do not put continuous load on the ground.
- Protection against external factors should be provided by using a caravan cover.
- Ventilation at regular intervals during the storage period is recommended.

13. FREQUENTLY ENCOUNTERED PROBLEMS

This section contains basic problems that may be encountered during the use of a towable caravan and practical solution proposals. If the problem persists, an authorized service center must be consulted.

13.1 Problems Related to the Gas System

- **Problem: Hob does not light**

    - The gas cylinder may be empty, please check.
    - The main gas valve may be closed, please open.
    - The ignition system may be faulty.
- **Problem: Gas odor is detected**
    - Close the gas valve immediately.
    - Do not use electrical switches.
    - Ventilate the environment and contact an authorized service center.

13.2 Electrical System Problems

- **Problem: No power**
    - Check the external electrical connection of the caravan.
    - Check the fuses.
    - Check the battery charge level.
- **Problem: Sockets are not working**
    - A fuse may have blown.
    - Check the power requirements of connected devices.

13.3 Water System Problems

- **Problem: No water from the taps**
    - The fresh water tank may be empty.
    - The water pump may be turned off or faulty.
    - Hose connections must be checked.
- **Problem: Water leak**
    - Check taps and connection points.
    - If the leak continues, turn off the system and contact service.

13.4 Heating & Cooling Problems

- **Problem: Heater or air conditioner does not work**
    - Energy source and connections must be checked.
    - Thermostat settings should be reviewed.
    - Ventilation vents may be blocked.

13.5 Cruise and Hardware Problems

- **Problem: Shaking during braking**
    - Brake adjustments may be broken/out of order.
    - Excessive loading must be checked.
- **Problem: Door or window opens with difficulty**
    - Hinges and locks must be cleaned and lubricated.

14. USER TIPS

This section includes practical suggestions for you to use your towable caravan more safely, comfortably, and enjoyably.

14.1 Suggestions for Beginners

- Test the caravan with a short-distance trial drive before first use.
- For your first camping trips, absolutely prefer distances close to your home.
- Learn the dimensions, weight, and maneuvering limits of the caravan well.
- Place loads in a balanced and fixed manner inside the caravan.
- When you arrive at the campsite, take the caravan onto flat ground and use the stabilizer jacks correctly.
- Always apply the pre-cruise checklist.
- Learn the location of emergency equipment (fire extinguisher, first aid kit, etc.) in advance.
- Regularly review the user manual and safety instructions.

14.2 Camp Ethics

- Protect the environment and nature at the campsite, dispose of your garbage in appropriate areas.
- Pay attention to the noise level, take care to be quiet especially during night hours.
- Leave common use areas clean and tidy.
- Leave a respectful distance to neighboring campers.
- Comply with fire-making rules and do not light fires in unauthorized areas.
- Use water and energy resources economically.
- Comply with local rules and campsite management instructions.

15. APPENDICES

This section contains checklists and maintenance tables prepared for the safe, orderly, and long-lasting use of the towable caravan. Users are recommended to regularly fill out and keep these appendices.

15.1 Pre-Cruise Checklist

The following items must be completely checked before going on a journey:

- ☐ Drawbar and locking mechanism checked
- ☐ Safety cable connected correctly
- ☐ Electrical socket and all lighting are working
- ☐ Tire pressures (40 PSI) and wheel lugs checked
- ☐ Stabilizer jacks fully retracted
- ☐ Doors, windows, and cabinets locked
- ☐ Gas valves closed
- ☐ Water and external electrical connections disconnected

Checked By: …….. **Date:** ……..

15.2 Daily Maintenance Control Table

Control Item	Checked (✓)	Note
Gas valves closed	☐	
Water levels checked	☐	
Electrical system visually inspected	☐	
Ventilation vents open	☐	
General interior cleaning done	☐	

15.3 Monthly Maintenance Control Table

Date	Checked By	Operations Performed / Notes

Monthly Checks:

- Gas hoses and regulator
- Battery status and connections
- Tire pressures
- Brake and handbrake mechanism
- Fire extinguisher and detectors

15.4 Annual Maintenance and Service Table

Date	Service / Person	Operation Performed

Annual Checks:

- Gas installation professional control
- Brake, axle, and suspension system
- Electrical installation and fuses
- Sealing and body controls
- Tire and rim status

☑ Note

Caravans whose annual checks are not performed by the manufacturer or dealers will be out of warranty. These appendices must be regularly filled out and stored for warranty processes and safe use.