



# Vehicle Manual



## Operation & Troubleshooting

**PLEASE LEAVE THIS MANUAL IN THE MOTOR HOME**

[www.roadbearrv.com](http://www.roadbearrv.com) / [www.britz-usa.com](http://www.britz-usa.com)

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# INTRODUCTION

Thank you for choosing ROAD BEAR RV / BRITZ USA for your motor home vacation.

We provide this manual as a guide and it describes the operation of the motor home equipment in general. Due to differences between similar equipment and motor home models as well as changes from year to year, we cannot precisely describe every motor home individually, but the systems and operation are very similar if not the same. Please read the following information thoroughly.

Your personal walk-through may have been overwhelming or just too much information in a short time. Please take a few minutes and read this manual carefully. Familiarize yourself with the vehicle. This will ensure that you get the best use of the motor home.

We at ROAD BEAR RV / BRITZ USA are committed to make your vacation as fun and trouble-free as possible. In the event of unanswered questions or a malfunction please call our Help Desk\* during business hours (California / Pacific Time).

\* Road Bear RV / Britz USA are not liable for any air time, data, roaming or other charges related to phone calls or electronic messages to/from our Help Desk

## **This document is the property of ROAD BEAR RV and is for informational purposes only**

ROAD BEAR RV reserves the right to change the documentation at any time without prior notice. ROAD BEAR RV does not assume any liability for the accuracy of any instructions or specifications contained herein. The document is not intended to describe the specific function of any appliance or item within a particular motor home. Please assure yourself of the contents and the operation of each item in your motor home before you leave our rental location. Our employees are able to give you specific instructions. Please ask if you have any questions.

This document is not to be duplicated in any way without written consent by ROAD BEAR RV.

Cover picture: -

Agoura Hills, CA / Februar 2018

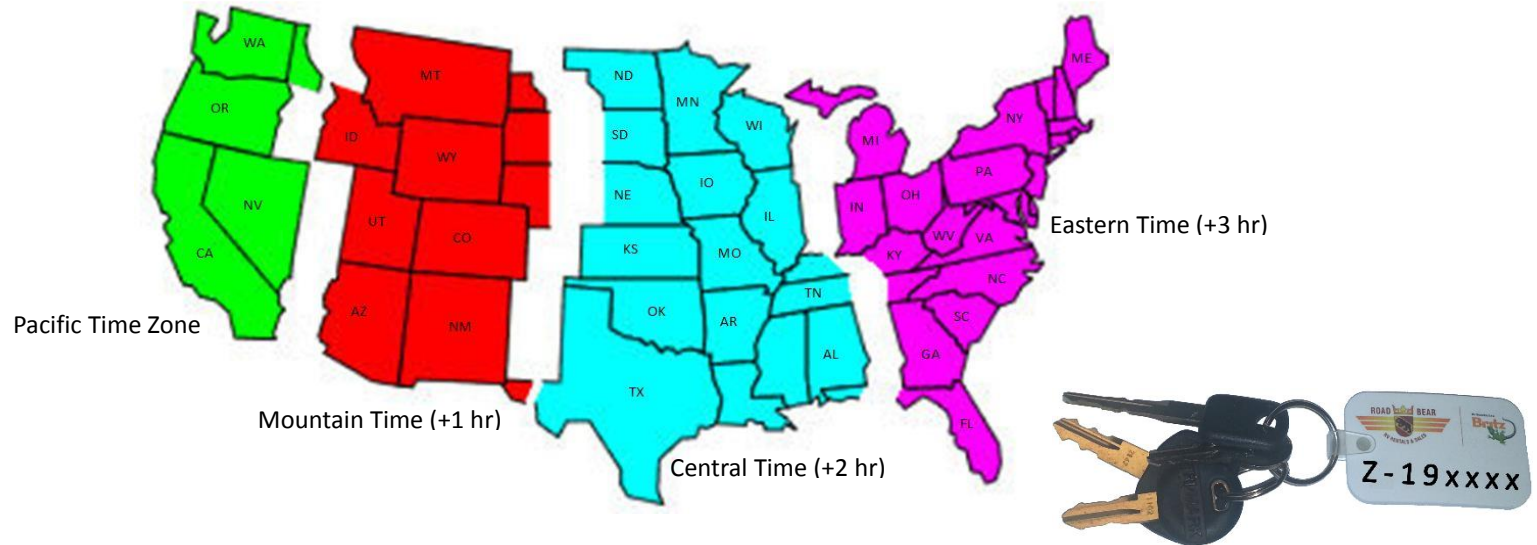
# HELP DESK

In case of an operational or technical problem and after consulting this manual,  
you can contact our Help Desk for assistance during business hours

**Mon. – Fri. 8:00 – 5:00, Sat. 8:00 – 1:00, Pacific Time**

Keep in mind that most repair centers have business hours and are closed on weekends and Holidays

The phone numbers are located on the key tag or the rental contract



You can also contact us by e-mail for operational questions or to report damages and accidents.



Please include your Vehicle Number (as listed on your Rental Contract & Key Tag) in the subject line.

VEHICLE NUMBER <del>P-109599</del>		RENTAL AGREEMENT <del>B-LAX-29195</del>	
YOUR PICK-UP STATION		YOUR DROP-OFF STATION	
Road Bear RV	1-866-527-6875	Road Bear RV	1-866-249-1119
C/O Coachmen RV		847 Industrial Pkwy West	Hayward, CA 94544
423 Main Street	Middlebury, IN 46540		
Pick Up: Mo-Fr 8 am - 4 pm	Sa & Su closed	Pick Up: Mo-Fr 12 pm - 4 pm	Sa 12 pm - 1 pm
		Drop Off: Mo-Sa 8 am - 10:30 am	

To assist you we may have to ask questions or give you multi-step instructions, for which e-mail is not practical and will delay effective help. Please understand that we are not always able to return phone calls.

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# Accident or Break-down



Flat tire, keys locked in, out of fuel, engine or transmission problems, which prevent you from driving



Should you experience any kind of emergency that requires immediate professional medical , fire  or police  assistance please call the nationwide emergency number  **911** from any nearby telephone. Should you be involved in a vehicular collision, call the local police/sheriff/park ranger and inform us no later than the next business day to maintain insurance coverage – see page 14 for more details.

Should your motor home no longer be drivable, call us at the numbers on the key tag or rental contract.

## EMERGENCY ASSISTANCE

**Please call the numbers on your key tag**

24 hours a day – 7 days a week

**800/855/866/877 & 888 phone numbers are toll-free\* which can be called from any landline phone!**

\* Road Bear RV / Britz USA are not liable for any air time, data, roaming or other charges related to phone calls or electronic messages to/from our Help Desk

## DRIVING SAFETY

Be aware that you are driving a much larger and heavier vehicle than a car. This will cause the vehicle to react differently from what you may be used to. Failure to follow this safety information may result in an accident, injury or death. **Obey all local, state and federal traffic laws.** Plan your route in advance and know the vehicles dimensions and limitations!

### Refueling (Gasoline and Propane)



Refueling of gasoline and propane **releases highly flammable fumes**. It is therefore mandatory to TURN OFF any spark emitting appliances (engine, refrigerator, water heater, furnace, etc.) before fueling.

- Turn off the engine and the battery disconnect switch by the entry door.
- Do not forget to turn the switch back on after fueling.

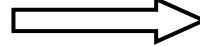


### Side winds



## SLOW DOWN!

Use caution or stop if necessary when traveling in high wind conditions. Do not ignore wind warnings on the radio or by traffic officers. When trucks park along the road – stop as well.



### Following distance



5

4

Distance in seconds:

3

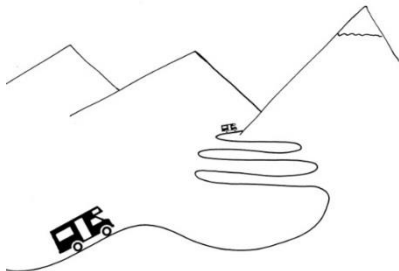
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1



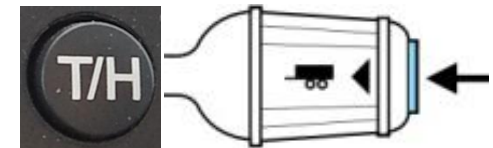
The braking distance is much greater than for a car. **Keep a greater distance to the vehicle in front of you!** If you follow a truck, keep extra distance to reduce risk of damage to the windshield by stones thrown up.

### Mountain driving



When driving in the mountains engage the transmissions tow/ haul mode (separate button). This setting will provide improved pulling power for uphill and engine braking with transmission downshifts for downhill driving. To prevent brake overheating engage the tow/haul mode any time extra braking is required. Higher engine speed and noise are normal in tow/haul mode.

**Adjust your speed according to current road and traffic conditions!**



## Driving at night



If you are driving at night, be aware that in many rural areas (especially in the wide open areas of the western states) wildlife and in some areas livestock can be encountered on the roads. **Adjust your speed accordingly.**



## Seat belts



All passengers in the motor home need to be buckled up. Children - typically up to age 6 or 60 pounds – need to be in a child or booster seat. Consult state regulations – see our website for further details.

**DO NOT get up, cook, shower, use bathroom, walk around or lie on any bed in the motor home while the vehicle is in motion!**

The safety of yourself and your loved ones is very important.

## GPS – Navigation System

**NEVER operate the GPS device while driving – it is unsafe and dangerous!** Do NOT handle the GPS while the vehicle transmission is in gear – stop and park before operating the GPS. Install and use the GPS device in such a manner that does not cause accidents, personal injury or property damage.

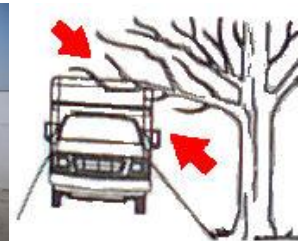
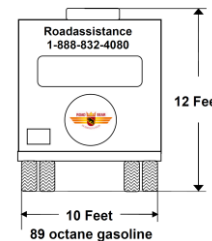


## Overhead obstacles



Watch for low overpasses, low-hanging trees, roof edges and road signs. If needed, have a passenger step outside and guide you past the obstacle. Required vertical clearance for Class C is 12 feet (3.65m) and for Class A is 13 feet (3.95m).

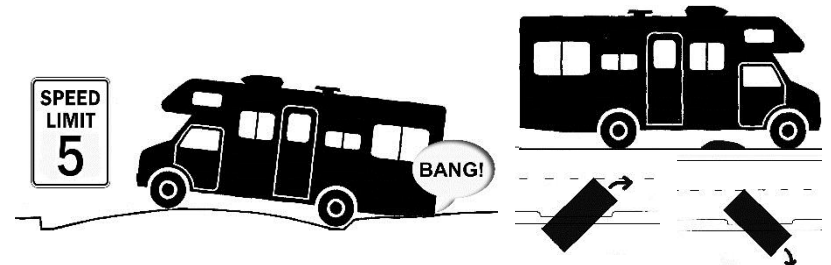
Entering parking structures is **PROHIBITED!**



## Driveway entrances and rough road surface

Enter and exit driveways **SLOW** and at an angle – the rear of the motor home could hit the ground. Drive slowly over ramps, humps, bumps, rough ground and other obstacles of any kind.

**CAUTION - Cabinets could open and objects fall out!**

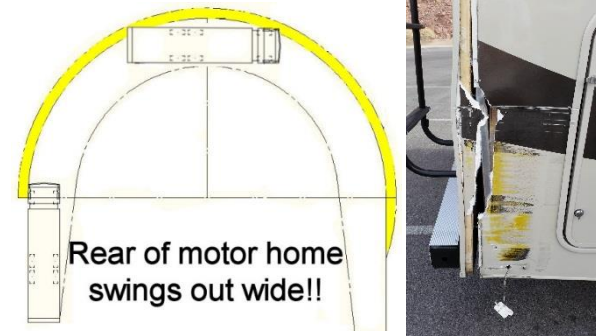


## Maneuvering & parking

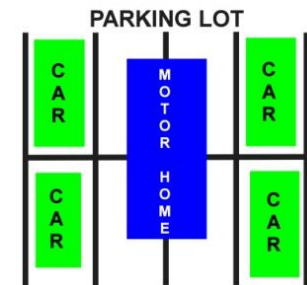
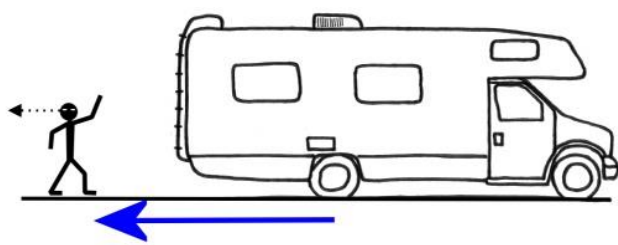
The rear of the motor home swings out wide and clips corners when you make turns. Allow for extra room when making turns and parking.

Park in an area with a lot of free space and use more than one parking spot if possible to ensure other cars do not park too close. You are responsible to pay for all parking spaces used! Parking structures are **PROHIBITED!**

When maneuvering on a campground, parking lot and especially while backing up, **ALWAYS** get help from a passenger → do not rely on mirrors or backup cameras only! Have someone outside of the motor home checking for overhead- & side-clearance and obstacles. Even if the motor home is equipped with a rearview camera - there remain blind spots!



Damages caused by backing up are negligent and **NOT** covered by the insurance!



## Tunnels and narrow roads

Drive slowly in tunnels and on narrow mountain roads. Many roads in National and State Parks have been built long before motor homes were common vehicles. If you slow down when roads narrow, you are more likely able to avoid a mirror-to-mirror or other collisions.

## Mobile phone use while driving



It is not just **unsafe** to use a cell phone while behind the wheel, but in most states it is **illegal**! If you have to make a call – pull over or have a passenger make the call.



## Loose items

Secure any loose items or equipment before you drive off. In case of an accident or emergency stop, such a loose item could cause severe injury.



## Break-in and theft



Motor homes can be a target of thieves. Keep all doors locked while the vehicle is in motion. Do not leave valuables like cameras, computers, etc. laying out where they can be seen. To prevent somebody from hiding in the vehicle, lock all windows and doors; open all curtains and remove the privacy curtain when leaving the motor home. This helps the police/security personnel to spot suspicious activities.

Should you have fallen victim to a theft or break-in, call the police and get a police report for your insurance.



## Emergency exits

Emergency exits are clearly marked. Special window exits are not to be opened - except in emergencies.

## Hot surfaces

Exhaust ports of furnace, water heater and generator are extremely hot when in use. Do not touch!



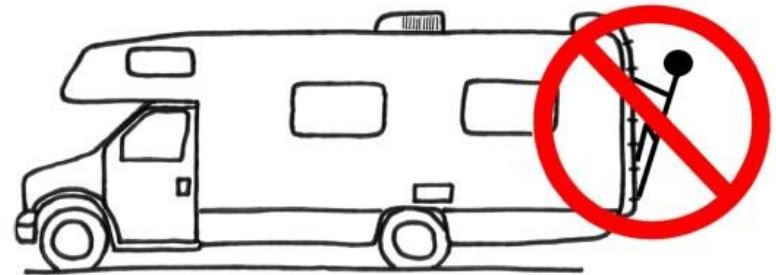
## Slippery when wet

Entry steps and floors can be slippery when wet. Watch your step! Showers are very slippery when wet and not for use while vehicle is in motion.



## Risk of falling

- The cab-over bunk bed is above the cockpit and one could fall out of bed. **ALWAYS use the safety net when small children sleep in the cab-over bunk**
- Watch your step when exiting the vehicle. If the motor home is equipped with an entry step and it is retracted you could fall and get hurt. Electric step: wait until the step is fully extended before you step outside
- **For safety reasons, renters is not allowed access the roof area!**



## Traffic Rules

There are some unique traffic rules in North America, not commonly encountered elsewhere. Road signs are often spelled out.

## Emergency vehicles

If an emergency vehicle on duty is approaching from either direction with its siren and warning lights on, **you are required to pull over to the right side of the road and stop** until the emergency vehicle has passed.





## Traffic stop



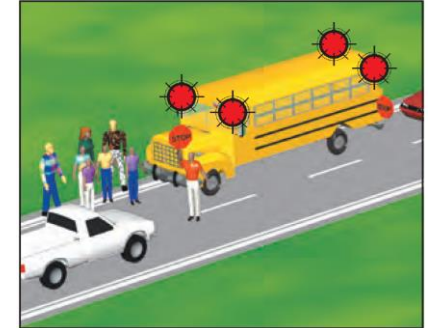
If a police car is following you with its flashing lights on, you have to pull over in a safe place as soon as possible and stop. Do NOT exit the vehicle and keep your hands visible for the officer.

**Follow the officer's instructions and answer all questions.**

If you are issued a traffic ticket, call ROAD BEAR RV for further instructions.

## School bus

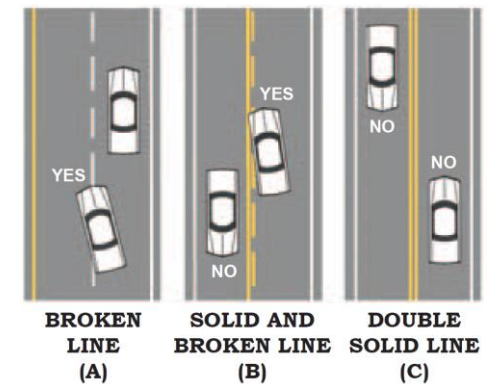
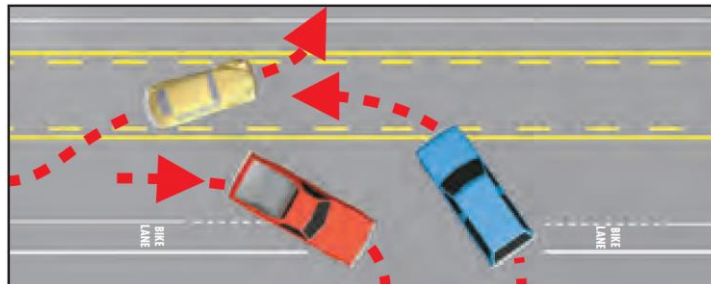
If you encounter a stopped school bus with its red lights blinking **you are required to stop fully until the lights are turned off.** You have to stop from either direction if there is no raised center divider between the traffic lanes.



## Traffic lanes

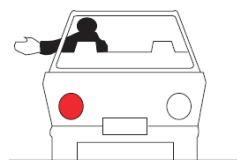
Passing: Only on a broken line on your side of the road. Only pass if there is no oncoming traffic. **The motor home is heavier, longer and slower than a car and needs more room and time to pass another vehicle.**

Turning: If there is a center lane, you may use it to make a left hand turn. You may also use the center lane when entering traffic.

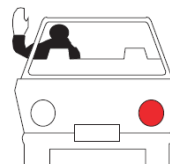


## Hand signals

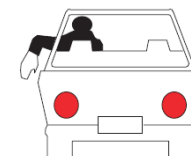
Should the turn or brake lights fail, you are required to signal your intentions by hand.



**LEFT  
TURN**



**RIGHT  
TURN**



**STOPPING  
or SLOWING  
ABRUPTLY**

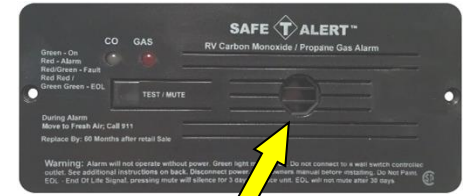
*These traffic rules are by no means complete and all traffic laws are applicable.*

# MOTOR HOME SAFETY EQUIPMENT

## PROPANE & CARBON MONOXIDE DETECTOR

Carbon Monoxide is an odorless gas often caused by burning. Propane is very flammable, heavier than air and smells like rotten eggs. It is used for heating, cooking and refrigeration. For your safety, a propane & carbon monoxide detector is installed in each motor home often near the kitchen - just above the floor. Green (blinking) light = Normal. Blinking red or red/green light = Error – have it checked before you stop for the night! Red (blinking) light and fast loud high pitch chirping = Danger - high propane or carbon monoxide levels. Proceed immediately with the following steps:

1. Turn off all open flames – **do NOT touch electrical switches (potential sparks!)**
2. Exit the vehicle immediately and close the main valve on the propane tank
3. Turn off the battery disconnect switch at the entry door
4. Wait several minutes before re-entering the vehicle
5. Open windows and the entry door - allow the propane/carbon monoxide to fully dissipate
6. Ensure the stove and oven burner valves are closed; turn off the water heater, the furnace, refrigerator and generator
7. Reset the alarm by pushing the test/mute button
8. Turn the main valve on the propane tank back on – if you smell propane again – turn it back off and call our Help Desk
9. If you do not smell propane and the alarm does not go off anymore, the source of the leak may have been a temporarily open valve at the cook top.

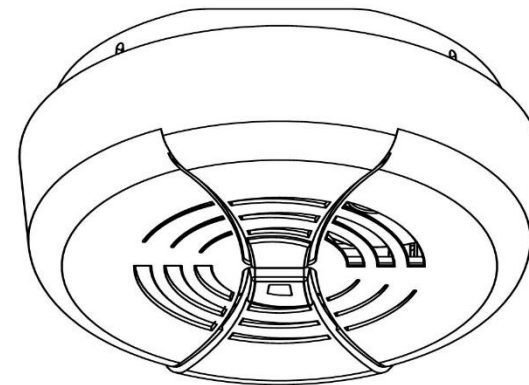


Certain cleaning solvents, dust and camp fire fumes can also trigger the alarm. Blowing into the sensor can help to clear it out.

TROUBLESHOOTER		
CO detector alarm going off	CO in coach	Open all windows - turn off engine and/or generator
CO detector "chirping"/60 sec.	Low coach battery voltage	Recharge coach battery by starting engine
Propane detector alarm going off	Possible propane leak in system	See steps above
	Cleaners or fumes activating alarm	Press mute/test button, blow into the alarm and air out motor home thoroughly
Propane detector "chirping"/60-90 sec.	Low coach battery voltage	Recharge coach battery by starting engine
Foul egg smell in and/or around motor home	Possible propane leak	- See above steps - Have the gas system checked and leak corrected before using again - Call Help Desk
	After recent refilling of propane tank: Vapor valve not fully closed	Close Vapor valve completely

## SMOKE DETECTOR & FIRE EXTINGUISHER

Every motor home is equipped with a fire extinguisher near the entry door. The smoke alarm is mounted to the ceiling, usually near the kitchen. The alarm sounds off a very shrill beep if it detects smoke – indicating a potential fire. Sometimes, cooking will also make the alarm to sound – please make sure you only cook with an open window and the range hood or roof vent fan running.



If the alarm sounds, proceed with the following steps immediately:

1. Turn off any propane appliance – cook top, furnace, etc.
2. Extinguish any visible flames, using the fire extinguisher
3. If the fire cannot be extinguished, exit the vehicle immediately. Turn off the battery disconnect switch and close the main valve on the propane tank
4. Get help – call ☎ 9-1-1!
5. Once everybody is safe and the fire has been extinguished, call our Help Desk for further assistance

If there was no fire, open a few windows and get fresh air thru the motor home. To reset the alarm push the test button until it beeps.

A regular low pitch beep about every 60 – 90 seconds indicates low battery voltage.



TROUBLESHOOTING		
Smoke alarm going off	Smoke & fumes while cooking	Turn on range hood/roof vent fan and open some windows. Push mute/test button on alarm
	Fire in motor home	Close main propane valve. Call 911 and use fire extinguisher
Smoke detector “chirping”; 60-90 sec.	Battery voltage low	Replace battery



# VEHICULAR COLLISION – ACCIDENT

An accident is a vehicular collision in traffic and/or with property resulting in injury and/or damage to others and/or their property. Collisions without harm and/or damage to others and /or their property are designated as damage (see next section).

1. Get to safety if situation is dangerous
2. Make sure everybody is okay – administer first aid
3. Call the local police and have an officer take a report. **In case of injuries dial 911 (ambulance – police – fire department).** Request the officer's name, ID-, case number, phone number and how to get a copy of his report. If the police refuses to come or take a report; get the name, ID number and local phone number of the officer answering your call



For minor accidents or on private property, the police usually does not take a report. Proceed with step 4 below

4. Take pictures of the accident scene and the involved vehicles – if possible before moving the vehicles. If the vehicles were moved take pictures of the accident area as well
5. Exchange all information with the other party and fill in the Road Bear RV accident report form. It is necessary to provide the information from the other party – name, address, phone number, insurance information – if the other person refuses, call the police. Only a police report alone is not enough!



The accident report form, registration and insurance information are located in the pouch in the glove box on the passenger side

6. Road Bear RV must be contacted no later than the next business day at our Help Desk; phone number on the key tag or at [help@roadbearrv.com](mailto:help@roadbearrv.com)
7. E-mail the accident report (high resolution pictures) or fax it from the next campground to 1-818-827-1304

***The insurance company has the right to decline coverage if accidents are not reported on time or if no accident report can be provided.***

Please arrive before 09:30 a.m. on your return day to process the formalities



## DAMAGES

In case the motor home got damaged without harm to people and/or damage to property of others, please report the damage to the Help Desk (key tag) or [help@roadbearrv.com](mailto:help@roadbearrv.com) and to get assistance in having the vehicle repaired - if needed.

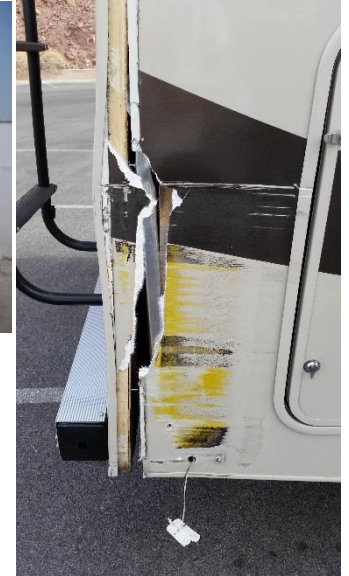
Please arrive before 09:30 a.m. on your return day

## FLAT TIRE



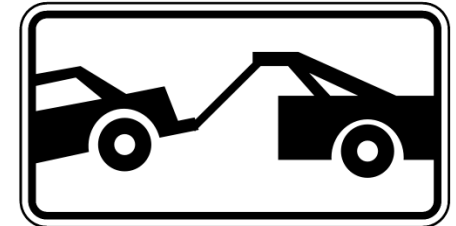
**Do NOT drive with a flat tire!** Even if there is a second tire on the same side, driving with a flat tire will overload the other tire and is dangerous. In case you have a flat tire please call our Help Desk for assistance. Please have the following information available: a) miles, b) which tire and c) the exact street address. We will arrange for professional help to install the spare tire. Repair or replacement cost of the flat tire is your responsibility within the insurance deductible.

For safety, insurance & liability reasons there are no tools in the vehicle.



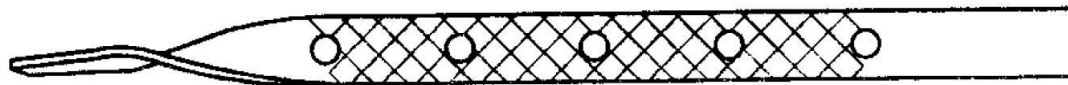
## BREAKDOWN

Should the vehicle break down – not drivable anymore – call our Help Desk. Please have the following information available: a) miles, b) problem description, c) number of passengers and d) the exact street address. Unauthorized towing will not be reimbursed.



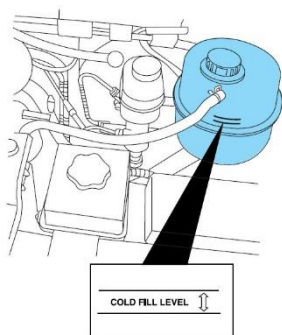
## MAINTENANCE

You as renter are responsible for the maintenance of the rental vehicle during the rental period. Check the engine oil and coolant levels every other time you refuel. A motor oil change is required every 5,000 miles you drive. Maintenance expenses in excess of \$50.00 will be reimbursed only with prior approval by Road Bear RV and with receipt only. Oil changes can be done at any nationwide lube center such as Jiffy Lube/Quick Lube/EZ-Lube or similar. You are **not** required to have the oil changed by a Ford or motor home dealership.



Motor oil is best checked with a cold engine on level ground. The oil level has to be between the MIN and MAX mark. NEVER fill more than ½ quart/liter at one time! Always wait 2 minutes after adding oil and before filling more.

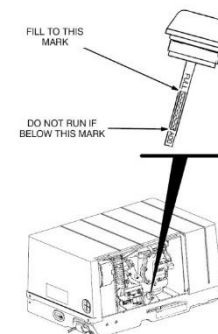
Inspect the oil level in the generator **every 8 hours of usage**. Damages due to lack of maintenance are the customers responsibility. Use regular motor oil if needed.



Coolant level



Oil grade



Generator oil level

The engine coolant has to be inspected regularly and if needed, add drinking water only. Check the coolant level when the engine is cold.

Have the tire pressure checked weekly. Pressure information is found on the manufacturer label near the driver seat – usually on the door frame.

## REPAIRS



If there is a defect and you are close to a Road Bear RV facility, please call ahead for an appointment. Addresses and phone numbers can be found on page 53. Our staff is best qualified and equipped to get the problem resolved quickly.

We do NOT offer repairs off-site (on campgrounds, etc.).

Any on-the-road repairs that are more than US\$ 50.00 require prior authorization by Road Bear RV. For authorization call our Help Desk. Non-authorized repairs will NOT be reimbursed.

**Mobile repair service is generally not authorized.**

If you need a repair, have the repair shop a) diagnose the problem and prepare a repair estimate, b) have the repair shop contact our Help Desk for repair authorization & payment, c) record the stock#, VIN, current mileage & appliance serial# (if applicable).

Please show the back side of your document folder to the repair shop with these instructions.

Repairs will be paid directly by Road Bear RV to the repair facility – you are required to return any defective parts. To get reimbursed for repairs, receipts and defective parts need to be returned to Road Bear RV. Non-authorized repairs and repairs without a receipt will NOT be reimbursed.

Most repair shops have regular business hours and are usually closed on weekends and holidays. Some are closed during the winter season.



MFD. BY FORD MOTOR CO.			
DATE: XXXXX	GVWR: XXXXXLB	GVWR: XXXXXKG	
FRONT GAWR: XXXXX	REAR GAWR: XXXXXLB	REAR GAWR: XXXXXKG	
XXXXX	WITH	XXXXX	WITH
XXXXX	TIRES	XXXXX	TIRES
XXXXX	PLMS	XXXXX	PLMS
AT XXXX kPa/XX	PSI COLD	AT XXXX kPa/XX	PSI COLD
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.			
VIN: XXXXXXXXXXXXXXXX		XXXXX	
TYPE: XXXX		XXXXX	
EXT PNT: XX	RC: XX	DSO:	
WB * BRK * INT TR	*TPPS	*R	*AXLE
XXX X	XX	X	XX
XXXXXXXXXXXXXXXX XXXX XXXX-XXXXXX-XX			



# AUTOMOTIVE EQUIPMENT (FORD)

## FUEL REQUIREMENT



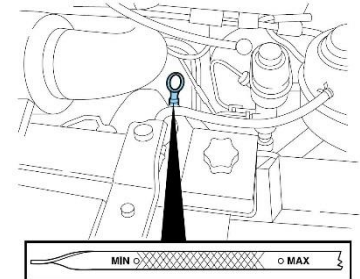
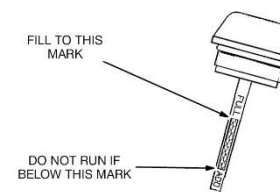
The motor home requires 89 octane grade **unleaded gasoline**. If 89 octane fuel is not available use the next higher grade.



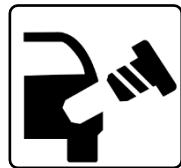
## MOTOR OIL



The motor oil grade is indicated on the filler cap in the engine compartment. Vehicles oil level needs to be inspected every 500 driven miles and the generator oil level every 8 hours of generator operation. NEVER fill more than ½ quart/liter at one time! Always wait 2 minutes after adding oil and before filling more.

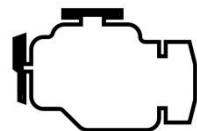


## GAS CAP LIGHT



If the gas cap light turns on; open and close the gas cap and you can drive on. The computer will need a few days (variations of driving cycles) before turning the light off.

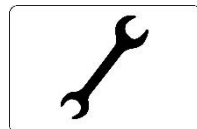
## CHECK ENGINE LIGHT



If the check engine light turns on and there are no changes in engine performance (such as lack of power, extra engine noise or vibrations) you can drive on. The computer will need a few days (driving cycles) before turning the light off. If you notice any change in performance, noise, vibrations or otherwise – call the Help Desk.

If the light is flashing (blinking) stop as soon as possible in a safe place to prevent engine damage and call the Help Desk.

## WRENCH LIGHT



If the wrench light turns on and there are no changes in vehicle operation (such as loss of power, extra noise or vibrations) you can drive on. If you notice any change in performance, noise, vibrations or otherwise – call the Help Desk.

If the light is flashing (blinking) stop as soon as possible in a safe place to prevent damage and call the Help Desk.

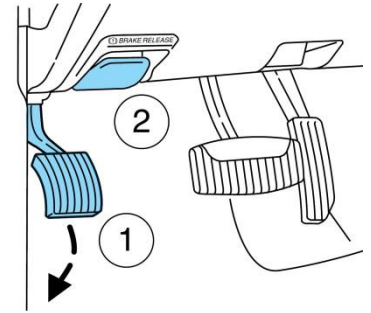


## PARKING BRAKE

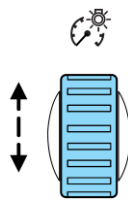
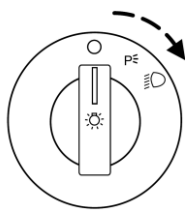


Stop vehicle fully and apply the parking brake (1) before shifting the transmission into 'Park'.  
To release the parking brake, pull the marked handle (2).

Some vehicle models have a hand operated parking brake



## LIGHTS



Headlight & parking light control switch is located to the left of the steering wheel

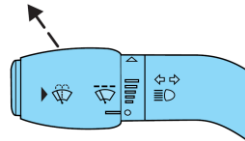
Instrument panel (dashboard) illumination – turn wheel up or down or push appropriate buttons to adjust

Some reading lamps: ON → rotate wheel all the way up or push on lamp;  
OFF → rotate wheel down or push on lamp

Some vehicle models have a switch on the lamp itself or next to it

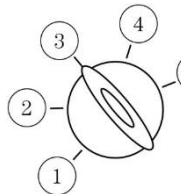


For high beam push the turn signal lever forward



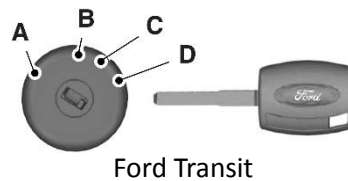
## IGNITION LOCK

Turn the key clockwise to start the engine

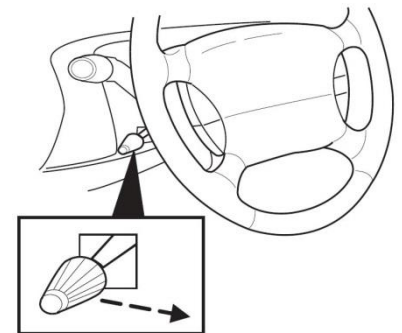


- 1/B – Radio/Accessory position
- 2/A – **Remove key position**
- 3/A – OFF position
- 4/C – Ignition ON position
- 5/D – START position

Ford E-Series & Class A



Ford Transit




## TROUBLESHOOTING

Cannot remove ignition key	Gear not in Park position	Put gear in Park position
	Key not in correct position	Turn key to the remove position

## TRANSMISSION

**P R N  3 2 1**

Gearshift: Depress brake pedal  to shift out of 'Park'. Gear lever: pull towards you and down to engage transmission. Use 'D' for regular and uphill driving. NEVER start from a complete stop in 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> gear – the transmission will not automatically shift! For very steep declines and in extreme cases, at speeds below 20 mph (30 km/h) only, shift down

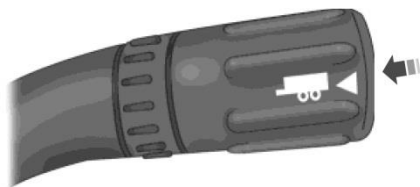
to 3<sup>rd</sup>/4<sup>th</sup> gear if needed. A simple rule of thumb: if you have to use the brakes a lot, activate the tow/haul mode or shift down!

Ford Transit – do not drive in M (Manual) mode – transmission will not shift automatically – overheating and damage possible!

### TROUBLESHOOTING

Cannot get shifter out of park	Ignition off	Start engine
	Brake-shift interlock feature on	Depress brake pedal with right foot
		Replace fuse

## MOUNTAIN DRIVING



Tow/Haul—normally OFF. Tow/Haul ON → use this position when driving in the mountains. This will provide improved pulling power for uphill and engine braking with transmission downshifts for downhill driving. To prevent brake overheating engage the tow/haul mode any time extra braking is required. Higher engine speed and noise are normal in tow/haul mode. If you have to use the brakes for long periods of time you need to activate the tow/haul mode. On level roads turn off the tow/haul mode to improve driving comfort and fuel mileage.



**Adjust your speed according to road and traffic conditions!**

### TROUBLESHOOTING

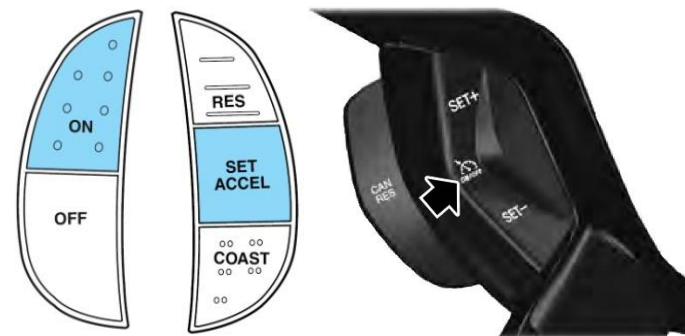
Tow/Haul light on	Transmission set to towing mode	Push tow/haul button lever to turn off
Tow/Haul light blinking	Transmission malfunction	Stop as soon as possible in a safe place and call our Help Desk

## CRUISE CONTROL

Cruise control operates above 35mph / 56km/h only

- To activate the cruise control, tap the ON button
- To set a desired speed press the SET+/ACCEL button and take the right foot off the accelerator
- To increase the speed, hold the SET+/ACCEL button until the desired speed is reached
- To reduce the speed, hold the SET-/COAST button until the desired speed is reached
- To get back to the last set speed after stepping on the brake, tap the RES button
- To cancel the current settings, tap the CAN button (if equipped)
- To turn off the cruise control, tap the OFF button

The cruise control disengages when the brakes are applied, but remains activated

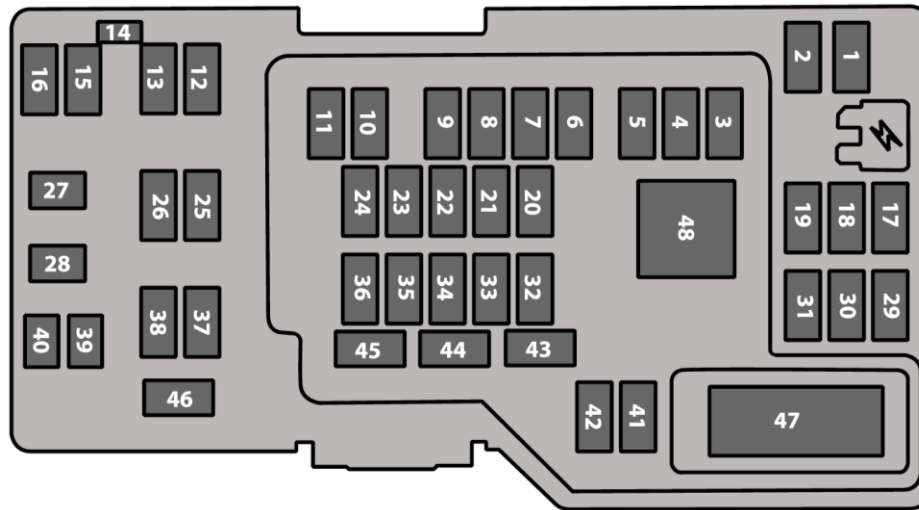


## FUSES AND RELAYS

Each vehicle has fuses and relays related to the operation of the vehicle – unrelated to the systems in the living (house) area.

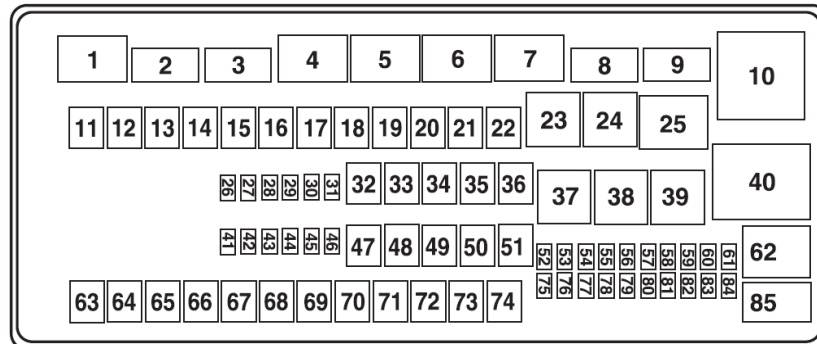
FORD – E-Series (E350/E450) model:

1. Underneath the dash board (near parking brake):



- |                           |                                |
|---------------------------|--------------------------------|
| 1. – 4. Spares            | 26. Instrument cluster         |
| 5. Brake interlock        | 27. Ignition switch feed       |
| 6. Turn & stop lights     | 28. Audio mute                 |
| 7. Low beam – left        | 29. Instrument cluster         |
| 8. Low beam – right       | 30. – 31. Not used             |
| 9. Dome lights            | 32. Restraint system           |
| 10. Switch illumination   | 33. – 34. Spare                |
| 11. – 12. Not used        | 35. Run/start                  |
| 13. Mirrors               | 36. Anti-theft system          |
| 14. – 16. Spares          | 37. Air conditioner            |
| 17. Door locks            | 38. Not used                   |
| 18. – 19. Spares          | 39. Radio                      |
| 20. Diagnostics connector | 40. Not used                   |
| 21. Spare                 | 41. Radio, switch illumination |
| 22. Parking lights        | 42. – 44. Spare                |
| 23. High beam             | 45. Windshield washer          |
| 24. Horn                  | 46. – 47. Spares               |
| 25. Demand lighting       | 48. Relay                      |

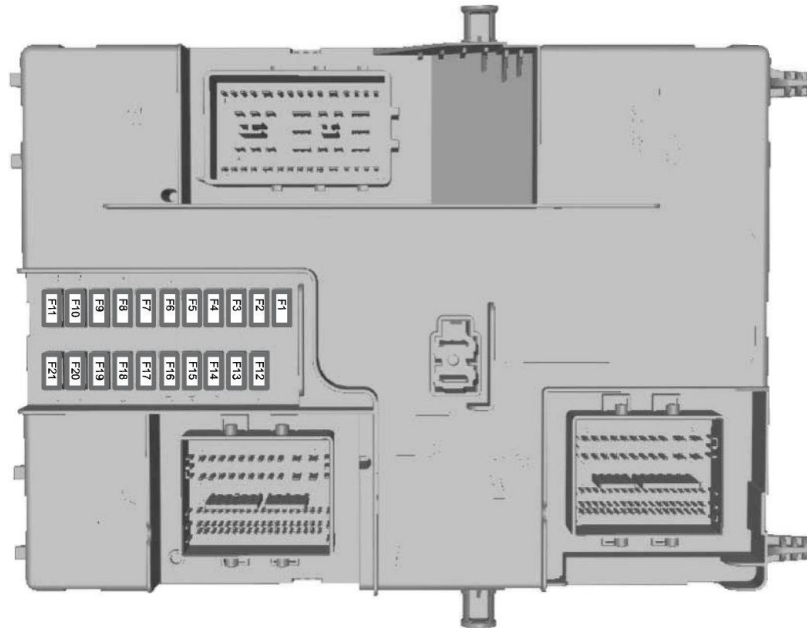
2. Engine compartment (driver side):



- |                        |                              |                                   |
|------------------------|------------------------------|-----------------------------------|
| 1. – 10. Relays        | 37. – 40. Relays             | 65. Power point #2 (glove box)    |
| 11. Empty/Spare        | 41. – 42. Spares             | 66. Power point #3                |
| 12. Run/Start          | 43. Fuel pump                | 67. Power point #1 (dash board)   |
| 13. Starter            | 44. – 45. Spare              | 68. Spare                         |
| 14. Run/Start          | 46. PCM                      | 69. Not used                      |
| 15. Chassis battery    | 47. ABS coil                 | 70. Spare                         |
| 16. – 22. Spare        | 48. Trailer turn/stop lights | 71. Not used                      |
| 23. – 25. Relays       | 49. Wiper motor              | 72. Cigarette lighter/power point |
| 26. – 27. Empty        | 50. – 51. Spare              | 73. Not used                      |
| 28. Back up lights     | 52. Run/start coil           | 74. Power seats                   |
| 29. Compressor clutch  | 53. ABS                      | 75. – 77. PCM                     |
| 30. Brake light switch | 54. Fuel pump                | 78. Ignition coil                 |
| 31. Spare              | 55. – 56. Not used           | 79. Transmission                  |
| 32. Blower             | 57. – 58. Trailer lights     | 80. Spare                         |
| 33. ABS pump           | 59. – 61. Not used           | 81. – 82. Not used                |
| 34. Spare              | 62. Trailer battery          | 83. Fuel pump diode               |
| 35. PCM                | 63. Spare                    | 84. Not used                      |
| 36. Ignition lock      | 64. Not used                 | 85. Relay                         |

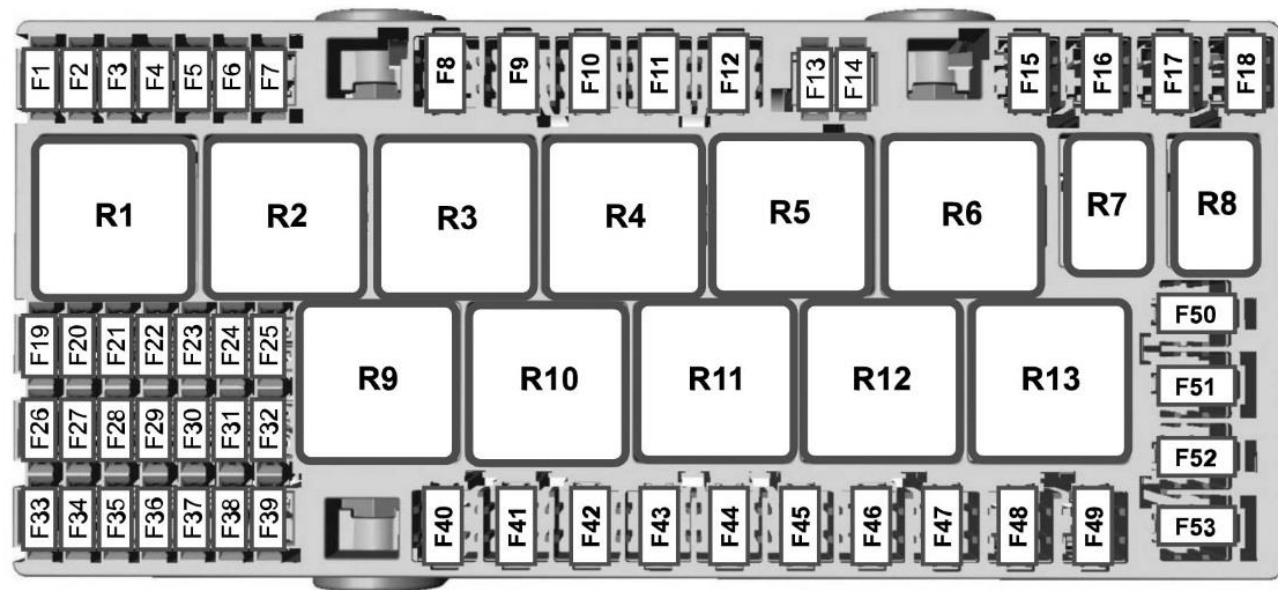
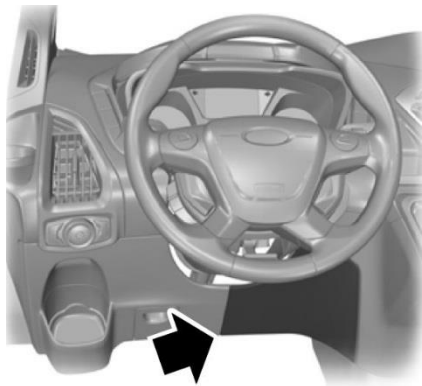
FORD – Transit model:

Body Control Module



- |                      |  |
|----------------------|--|
| F1. Power locks      | F13. OBD   |
| F2. Power locks      | F14. Turn signal   |
| F3. Ignition switch  | F15. Exterior lights                                       |
| F4. Brake interlock  | F16. Radio   |
| F5. Not used         | F17. Instrumentcluster                                     |
| F6. Wiper washer     | F18. Headlamp & steering wheel module & brake light switch |
| F7. Exterior mirror  | F19. Control/Display module                                |
| F8. Not used         | F20. Anti-theft  |
| F9. RH Headlight     | F21. Spare   |
| F10. LH Headlight    |  |
| F11. Exterior lights |  |
| F12. Not used        |  |

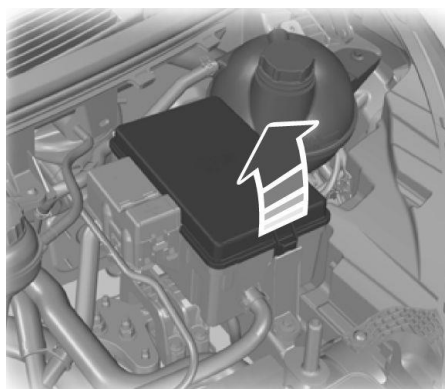
Passenger Compartment



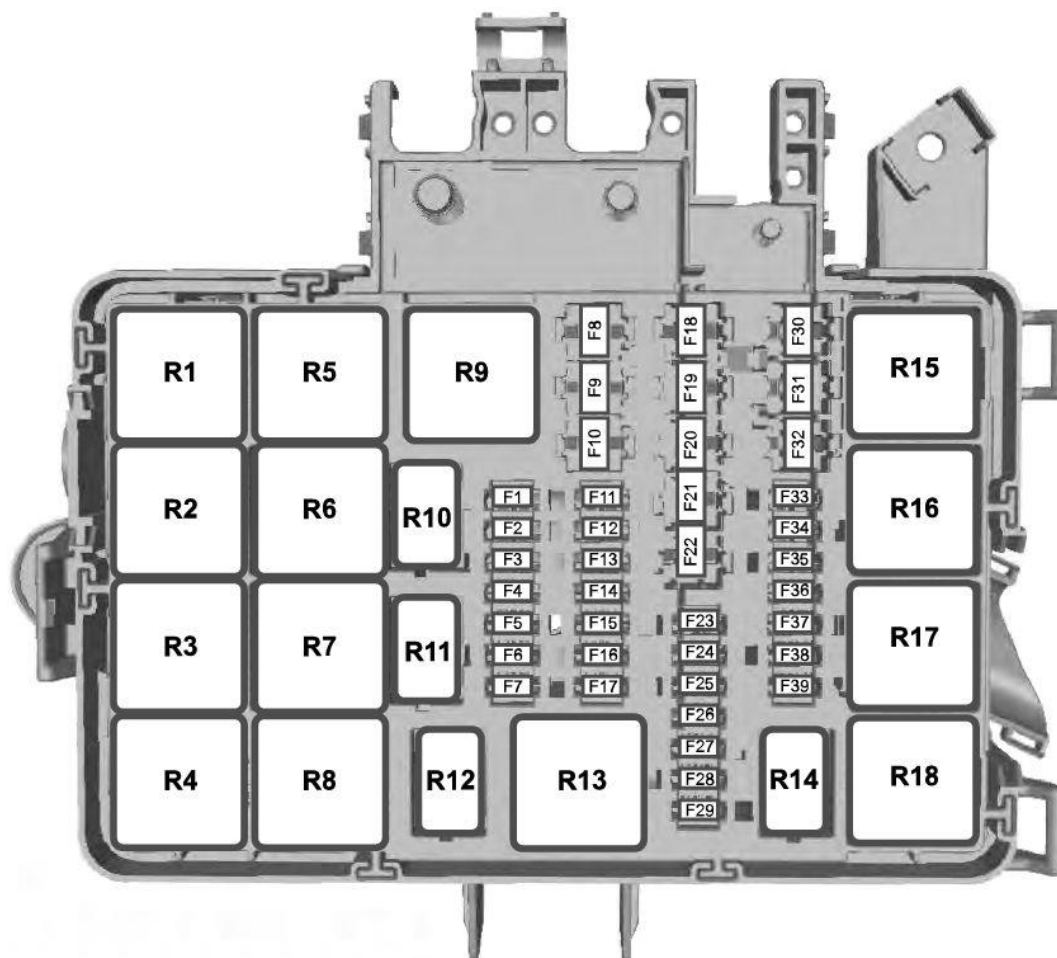


F1. Airbag	F10. Not used	F19. Trailer module	F28. Not used	F36. Horn	F45. Trailer
F2. ABS	F11. Not used	F20. Heated mirrors	F29. Not used	F37. Not used	F46. Power windows
F3. Interior lights	F12. Trailer lights	F21. Connectors	F30. Not used	F38. Blower/horn/wiper	F47. Cigarette lighter
F4. Trailer lights	F13. ABS	F22. Not used	F31. Trailer brake	F39. Keyless entry	F48. Rear power points
F5. Body connectors	F14. PCM	F23. A/C module	F32. Interior lights	F40. Blower motor	F49. Front power points
F6. Not used	F15. PCM relay	F24. Connectors	F33. Not used	F41. Not used	F50. Ignition relay
F7. Battery saver	F16. Body module	F25. Body module	F34. Not used	F42. Not used	F51. Not used
F8. AC power outlet	F17. ABS	F26. Heated mirrors	F35. Mirror switch & LH window switch	F43. Trailer	F52. Connectors
F9. Trailer brake	F18. Connectors	F27. Not used		F44. Aux. power points	F53. Connectors

## Engine compartment



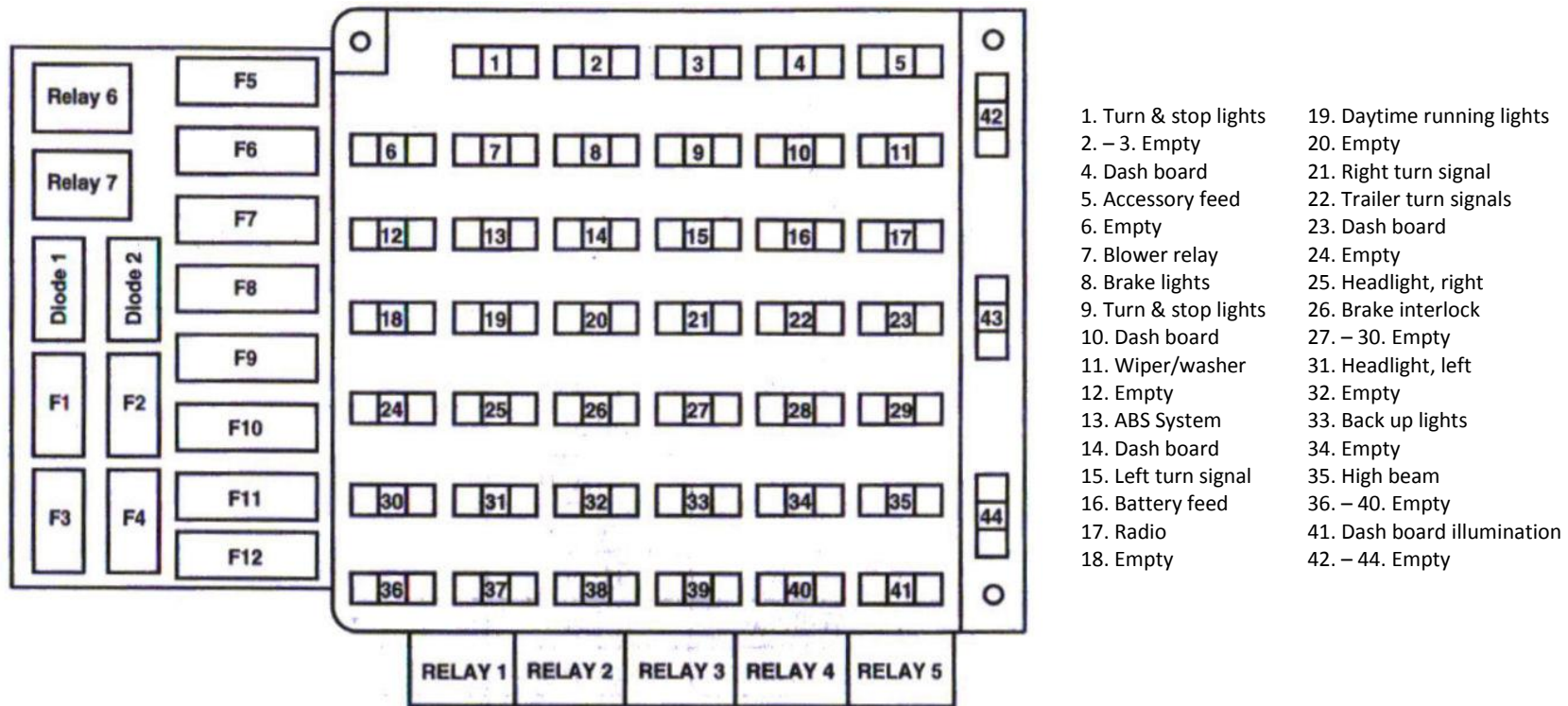
R1. Ignition	R10. A/C clutch
R2. Not used	R11. Diesel
R3. Not used	R12. Fuel inj. pump
R4. Not used	R13. Not used
R5. Not used	R14. Not used
R6. Wiper on/off	R15. Cooling fan
R7. Wiper speed	R16. Diesel
R8. Not used	R17. PCM
R9. Starter motor	R18. Cooling fan



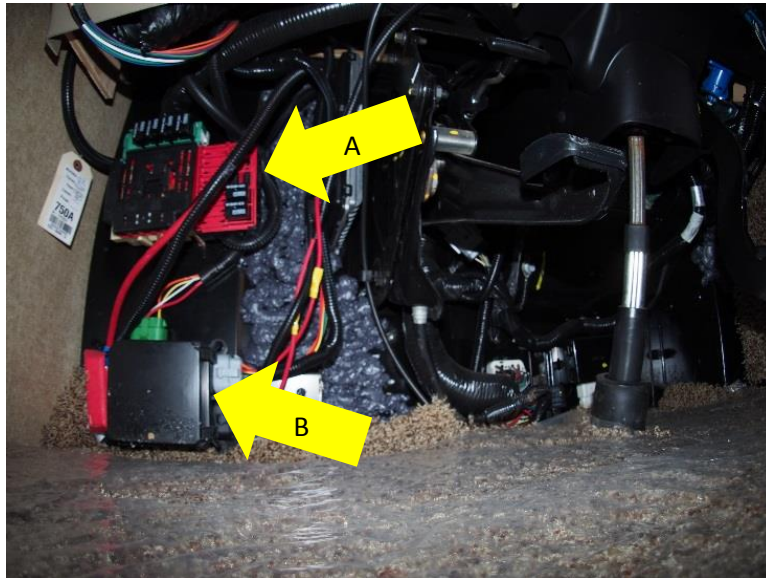
F1-F5 – Diesel	F12 – Diesel	F18 – Fuel pump	F28 – Crank case	F35 – PCM
F6 - Not used	F13 – Not used	F19 – Starter	F29 – PCV	F36 – Diesel
F7 – Transmission	F14 – Diesel	F20 – Diesel	F30 – Cooling fan 1	F37 – Fuel system
F8-F9 – Not used	F15 – Not used	F21 – Ignition	F31 – Not used	F38 – A/C clutch
F10 – Spare	F16 – Fuel pump	F22 – Diesel	F32 – Wiper motor	F39 – Emission systems
F11 – A/C clutch	F17 – Transmission	F23-F27 – Spares	F33 – F34 – Not used	

FORD – Bus style model:

A. Under dash board (near parking brake):

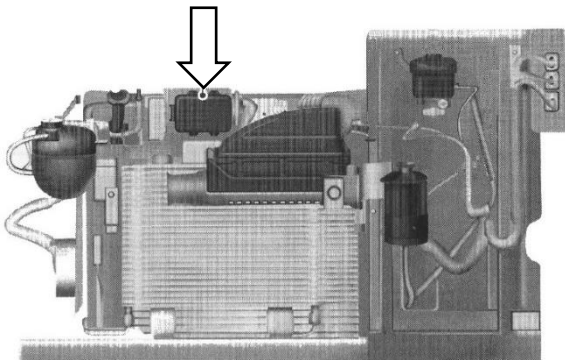


B. Under dash board (near parking brake):

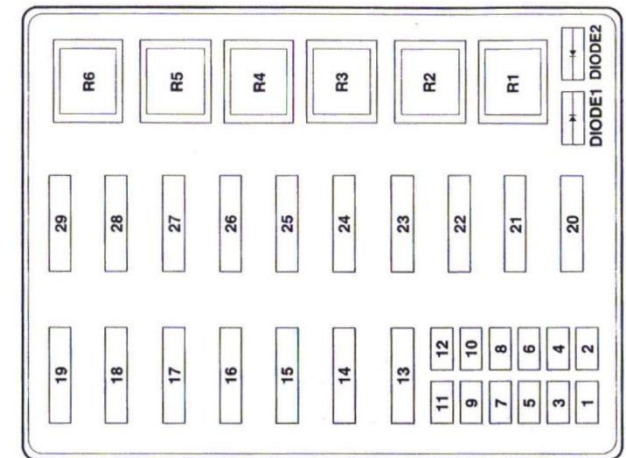


CB1-10A DRIVER SEAT	F4-5A STEP SWITCH	F8-15A DOCK LIGHTS	F15-10A WIRRO HEAT
F1-20A STEP MOTOR	F3-5A STEP IGNITION	F7-5A REAR VISION	F14-5A JACKS
CB2-20A WIPER MOTOR	F6-5A WIPER	F13-5A MIRRORS	
IGNITION ACCESSORY R2	IGNITION ACCESSORY R4	F12-10A DASH FAN	F11 SPARE
F2-15A FOG LAMPS	F5-30A CHARGE LINE	CB3-5A SHADES	F10 SPARE
FOG LAMP R1	IGNITION ACCESSORY R3	F9-25A HVAC BLOWER	

Engine compartment (center):



- |                            |                        |
|----------------------------|------------------------|
| 1. Power brake assist      | 16. ABS system         |
| 2. A/C clutch              | 17. Horn               |
| 3. Oxygen sensor           | 18. A/C clutch         |
| 4. PCM relay               | 19. Brake switch       |
| 5. PCM                     | 20. PCM relay          |
| 6. Parking lights          | 21. Fuel pump          |
| 7. Ignition                | 22. Cigarette lighter  |
| 8. ABS                     | 23. Blower             |
| 9. PCM                     | 24. Instrument panel   |
| 10. Daytime running lights | 25. Ignition switch    |
| 11. Fuel pump              | 26. Ignition switch    |
| 12. Instrument lights      | 27. Head lamps         |
| 13. Trailer brake          | 28. Starter            |
| 14. Lights                 | 29. Power brake assist |
| 15. Trailer lights         |                        |





# MOTOR HOME EQUIPMENT

## KEYS AND DOORS

There is only one set of keys for the motor home. Splitting up keys may prevent you from locking yourself out of the vehicle – one person keeps the entry door keys and the driver keeps all others.

There are multiple keys for different locks:

- Entry door handle (round plastic head - Trimark)
- Entry door dead bolt (rectangular head - Trimark)
- Exterior compartment doors (round or square head; silver – CH751 or G391)
- Some vehicles have a key for the exterior shower (CH751 or unmarked round head or small rectangular plastic head)
- The bus style vehicles have a key for the engine compartment (large rectangular metal head – E3-5-15)
- The bus style vehicles have a key for the cab-over drop down bed (round head; silver – OC01)

From the inside – move the handles to the lock (🔒) or unlock (🔓) positions.

Please push on the doors while unlocking or unlatching.



To avoid injury or damage during high winds, make sure the entry door is always hooked-in (if equipped) or closed at all times.

MONITOR PANEL

The monitor panel provides you with an overview of various systems:

- Fresh water tank level
- Holding/Black water tank level
- Grey water tank level
- Propane tank level
- Coach (house) battery charging / condition

The AUX button has no function on our vehicles

In addition, you can operate the water pump, water heater – on some models also operate the generator and the slide rooms.



TROUBLESHOOTER		
Monitor Panel is off	Battery disconnect switch off	Turn battery disconnect on
	Blown fuse	Replace fuse
Monitor panel shows holding tanks to be full or registers more than empty after dumping	Waste is stuck on the sensors	Fill tanks with about four buckets of clean water and some chemical. Driving should clean off the excess waste

COOK TOP

While using the cook top, turn on the hood exhaust or roof vent fan above the cook top/kitchen and open a window for fresh air and to prevent the smoke alarm from going off just because you cook.  
To turn on the propane at the burners, push in and turn the desired burner knob to the LITE position. To light the propane, use the built-in lighter – either mechanical or electrical. Or use the supplied lighter or a match.



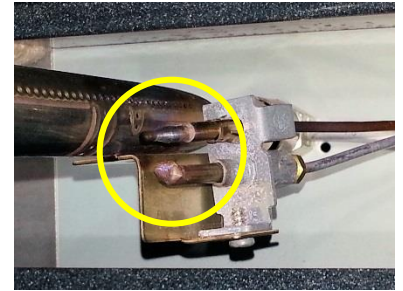
**NEVER use the cook top while the vehicle is in motion! Do NOT use the cook top for comfort heating – danger of suffocation!**

TROUBLESHOOTER		
Cook top burner will not light	Out of propane or main valve closed	Fill propane tank or open main valve
	Electrical or mechanical lighter faulty	Use a match or manual lighter

## OVEN (PROPANE)

While using the stove top and/or oven, turn on the hood exhaust fan above the stove and open a window for fresh air and to prevent the smoke alarm from going off just because you cook. Push in, turn the oven knob to PILOT and HOLD it in for 30 – 60 seconds. While holding the knob in, use the open flame of a lighter or a match to light the pilot flame. Hold the lighter or match to the pilot (located next to the burner under the bottom rack of the oven) until the pilot flame lights up. Hold the knob for another 30 seconds – then adjust the oven control knob to the desired temperature.

Note: Be patient when lighting the pilot flame as it may take some time.



**NEVER use the oven while the vehicle is in motion! Do NOT use the oven for comfort heating – danger of suffocation!**

### TROUBLESHOOTER

Turned knob but oven won't light

Pilot light must be lit manually

Turn oven knob to "Pilot" and keep pushed in, then use match or lighter to light pilot light

## KITCHEN COUNTER & DINING TABLE

Do NOT place hot pots and pans directly on the kitchen counters or dining tables. These surfaces are mostly plastic or covered by a plastic film and will melt/burn!



**ALWAYS** use a cutting board when working with a knife

## CAR RADIO

COACHMEN motor homes car radios can only be played with the ignition key in the accessory or run (ignition ON) position. THOR motor homes car radios runs off the coach battery. Due to the variety of car radios only a minimal description can be made. On some models, iPhones & iPods cannot be played thru the USB connection. If the Bluetooth mode is asking for a code, try the generic codes 0000 or 1234. Exterior speakers on THOR motor homes only play with the bedroom radio.

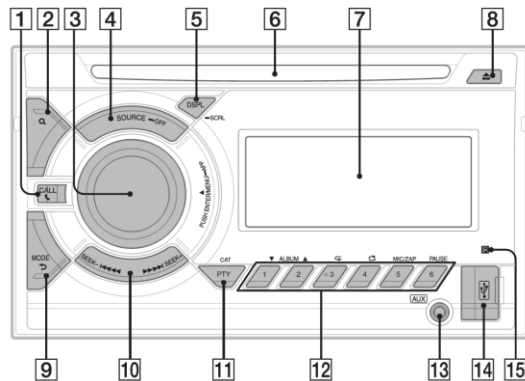
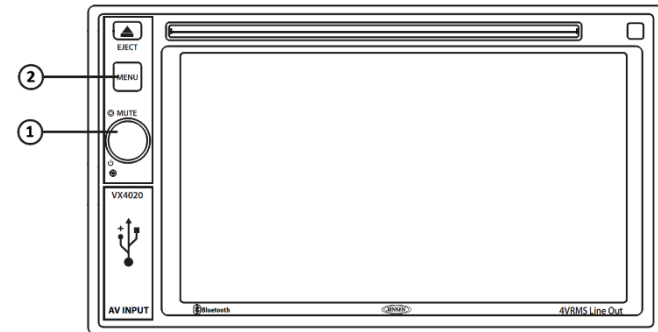


### AXXERA AV6337MB:

Power: 1  
 Mode: 1 - Select from touch screen  
 Time: Settings – touch Time on screen  
 Use < or > to adjust

### JENSEN VX4020:

Power: 1  
 Mode: 2  
 Time: Setting – Time; touch Save to store new time



### SONY WXGT90BT:

Power: 4  
 Mode: 4 – to shut off completely hold button for 3 seconds  
 Time: Tap menu knob (3) & turn to GENERAL & tap it  
 Turn to CLOCK ADJ & tap it  
 Turn knob to adjust hours & minutes  
 Press menu knob to save new time





#### DUAL DC525Bi:

Power: 4

Mode: 7

Time: 14 – Hold DISP until clock flashes  
 Tap Tune down (5) to adjust hours  
 Tap Tune up (6) to adjust minutes  
 Tap DISP (14) to save new time

## **CAB-OVER BED**

Above the driver cabin there are different kinds of beds.

In the Class C motor home it is a permanent structure with a removable section for easier access to the driver area. Just lift the removable section out of the way during the day.

In Class A motor homes the bed is raised out of the way to allow driving of the vehicle. The bed is operated electrically.



1. Pull the front curtains closed
2. Remove the ignition key
3. Lower the bed electrically

When raising the bed, make sure nothing is left on the mattress.



**ALWAYS** use the safety net if small children are sleeping in the cab-over!



## DINETTE BED

The dinette table can be converted to a bed as well. Some motor homes have a sliding mechanism: 1) release the mechanism under the table; 2) push table down; 3) re-arrange the cushions.



Other models have actual table legs: 1) lift the table top off the legs; 2) remove the legs; 3) lay table between benches and re-arrange cushions.

Some models require installation of shorter legs to support the table top.



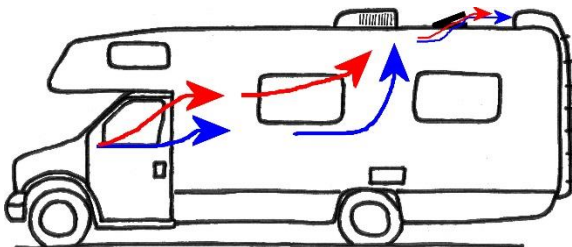
## WINDOWS



Some motor homes are equipped with flip windows – bottom section flips out. To prevent damages, such windows need to remain CLOSED while driving.



## VENTILATION



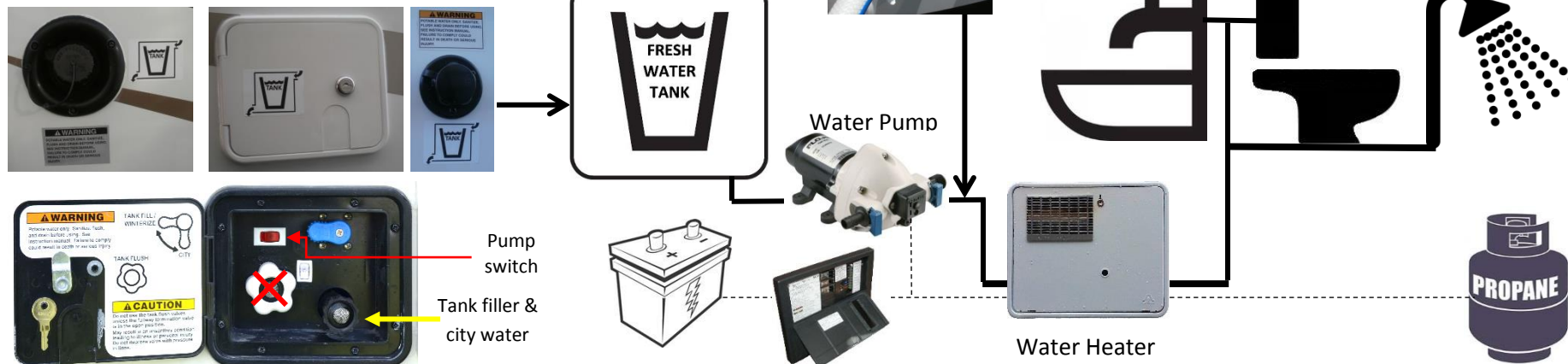
While driving, the windows should remain closed to reduce interior noise and negative air pressure. The bathroom roof vent can be opened two finger wide to assist the interior cooling or heating with the cockpit air conditioner/heater turned on. The aerodynamics will pull the air entering the vehicle at the dash board all the way thru the motor home out the rear roof vent. This assists in getting cool/warm air thru the motor home and removing any odors out of the vehicle.

## FRESH WATER SYSTEM



### IMPORTANT:

Only use potable (drinking) water for city water hook-up and to fill the fresh water tank!



Maximum allowed water pressure: 45 PSI / 3.1 bar – use regulator if needed – ask at campground

The fresh water tank overflows when it is full – either thru the fill opening or to the ground below the vehicle.

If you are staying at a campground with city water hook-up, there is no need for use of the water pump. The water pressure at some campgrounds can be higher than normal. It should not exceed 45 PSI (3.1 bar) – check with the campground manager. To prevent any leaks in the motor home, use a pressure regulator or close the water faucet at the camp site ½-¾ way to reduce the water pressure.

TROUBLESHOOTER		
Fresh water tank will not fill	Tank is already full	Check for over flow or the monitor panel
	No water supply	Check water faucet at campground
	Not filling water	Make sure valve is in correct position – if applicable
Fresh water dripping under vehicle or pushing back out the fill hole	Tank is full and overflowing	Turn off water supply
	Drain valves open	Close drain valves
Pump fails to start when switch is on	Battery turned off	Turn on battery disconnect switch
	Blown fuse	Replace fuse in power center
	No water	Check water tank level
	Water system hooked up to city water	Remove hose from city water
Water pump cannot be turned off	Exterior switch on	Turn off exterior switch

## WINTERIZATION



**OVERNIGHT** – If the outside temperature falls below freezing (32°F/0°C), empty the holding tanks. The water heater needs to be ON and the furnace (heater) needs to be turned ON and set to at least 55°F/12°C over night – even if you are not in the vehicle!

**ALL DAY** – If temperatures remain below freezing during the day, the water system has to be professionally winterized at an RV service center to prevent any damages to the plumbing system. The water system will not be usable once it has been winterized.

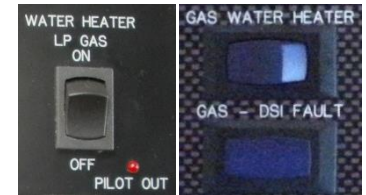
**It is your responsibility to have the plumbing system winterized when temperatures fall below freezing! See Winterization form**

Please call our Help Desk for more information and assistance. Depending on season and pick up location, the motor home may already be winterized.

## WATER HEATER

The water heater operates on propane and battery power. It takes 20-30 minutes to heat the 6 gallons/22 liters of water. The Pilot or DSI light will turn on briefly but turns off while the water is getting hot.

**For safety reasons turn the water heater off while driving.**



TROUBLESHOOTER		
Water heater not working or illuminated switch not lit	No 12V power	Turn battery disconnect on
		Replace fuse
	Water is already hot	Check for hot water at faucet
DSI/Pilot light turning on	Temporary ignition failure	Turn off and wait 30 seconds before turning back on
	No propane or main valve closed	Fill propane tank or open main valve

## SHOWER

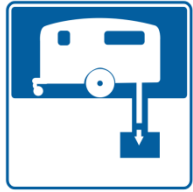
Dry camping: make sure you have plenty of fresh water and the grey water tank is empty. Full hook-up: make sure the city water at the campsite is on and the drain valve of the grey water tank is open.

The shower head has a water saving feature with an on/off valve built into the shower head to reduce the water consumption.

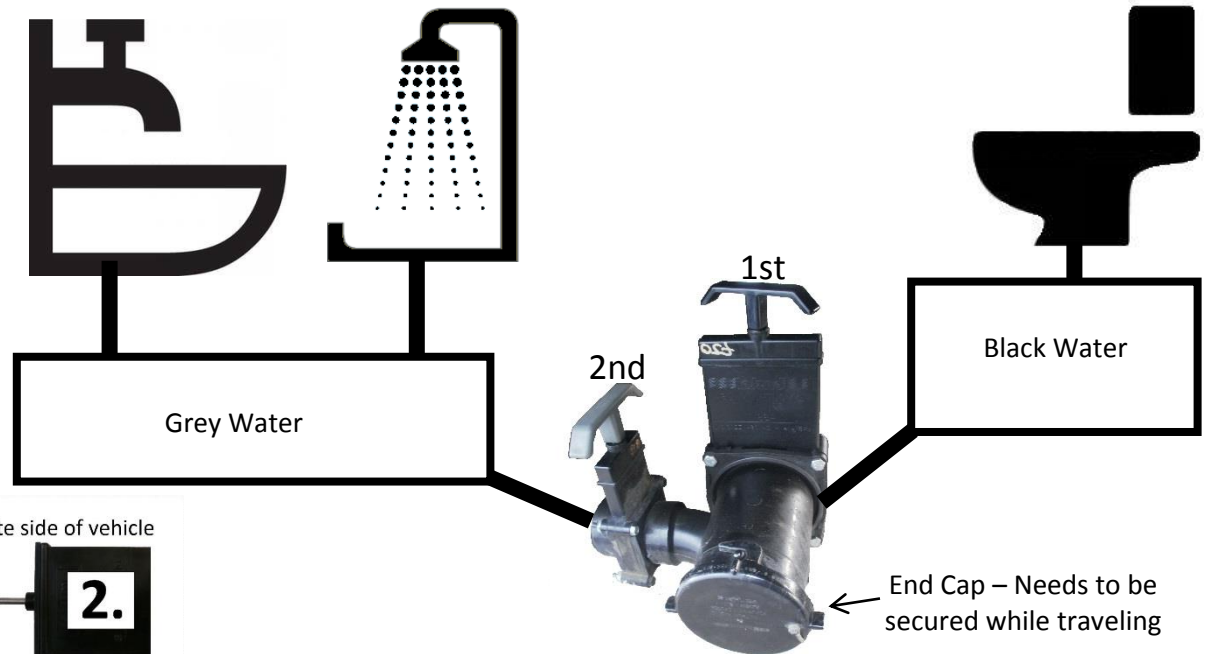


TROUBLESHOOTER		
No water at shower head	Valve at shower head is turned off	Open valve at shower head
	Lack of water	Turn on pump, check tank level or city water hookup
Water backs up into shower	Grey water tank is full	Empty the grey water holding tank

# Waste Water System



The waste water system operates without any pump and empties thru a hose



Some vehicle may have an extra valve on the passenger side



On opposite side of vehicle

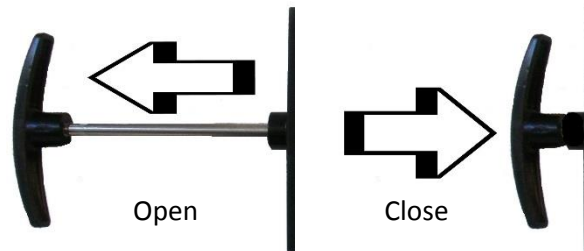


Auf gegenüberliegender Fahrzeugseite

**Black Water – Drain only when at least 2/3 full!**

To drain the tanks:

1. Remove end cap
2. Attach sewer hose
3. Stick hose in ground
4. Drain BLACK water (large valve)
5. Close black water valve
6. Drain GREY water
7. Close grey water valve
8. Remove sewer hose
9. Install end cap
10. Rinse hose

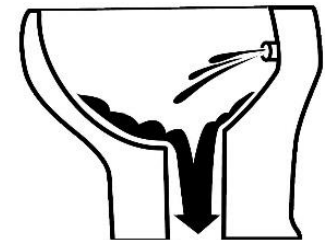
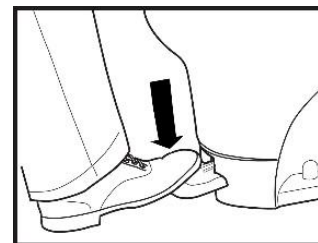


TROUBLESHOOTER		
Waste tank will not drain	Valve(s) closed	Ensure all valves are open – see opposite side of vehicle
	Waste tank empty	Check for water in tank thru toilet (on some models)
	Drain pipe plugged	Insert a wire to unclog from the outside – CAUTION: sudden discharge
	Contents in tank are frozen	Dump in warmer climate
	Waste water valve is broken	Visit a repair facility – see page 16
Grey water is backing up into shower	Full waste tank	Empty the grey water holding tank
Monitor panel shows full or registers more than empty after dumping	Waste is stuck on the sensors	Fill tanks with about four buckets of clean water and some chemical. Driving should clean off the excess waste

## TOILET

All motor homes are equipped with a flush toilet. Flushing the toilet requires water pressure from the water pump or city water connection. Before using the toilet ensure you have water pressure!

Flushing the toilet is done with a foot pedal. Flush for at least 10 seconds.



To prevent odors and to dissolve human waste add RV holding tank chemicals after every first time use on an empty tank. Do NOT use regular household toilet cleaner!



**Do NOT drop anything in the toilet that does not belong!**

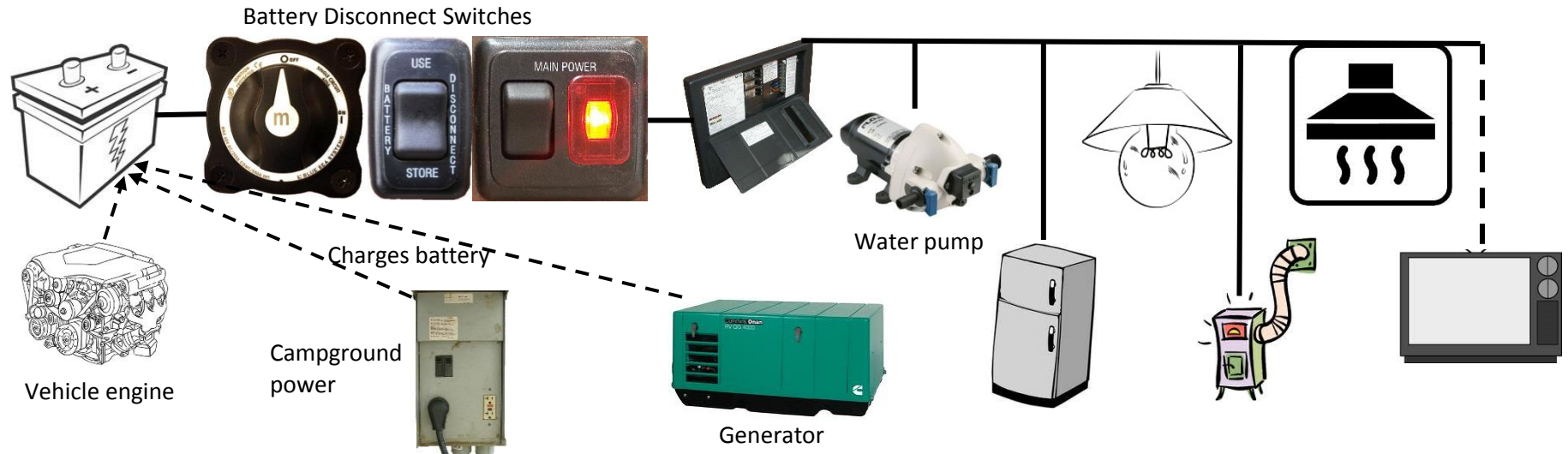




# ELECTRICAL SYSTEM

## 12 VOLTS – BATTERY POWER

The coach (house) battery operates many electrical appliances. Make sure the battery disconnect is always turned ON (USE).



The coach battery is getting charged while driving and when connected to the campground or when the generator is running. Its condition can be seen on the monitor panel with the BATT button.



If you are dry (freedom) camping (without electricity from the campground) for a few days and do not drive much, you have to run the engine at least two hours per day to maintain enough battery power. If the outside temperature is low and you use the furnace (heater) at night, you have to run the engine at least four hours per day to maintain enough battery power. A fully discharged battery requires driving (or running of engine) for at least eight hours. Battery life varies widely depending on multiple factors.

## BATTERY DISCONNECT SWITCH



All motor homes have a coach battery disconnect switch which is located by the entry door. Leave the switch ON (USE) to assure overall function of the appliances. If the switch is OFF (STORE) – nothing in the motor home will work and the coach battery will not get charged when connected to campground electricity or running generator.

**The only time it has to be turned OFF is when re-filling fuel or propane**



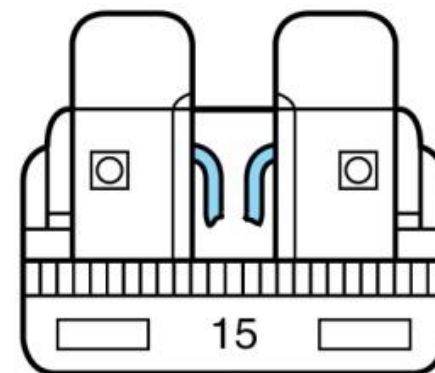
## FUSES



Each motor home has a fuse box which is located in the bedroom or living area. It contains a series of fuses (standard 12 volt automotive fuses). If any electrical appliance stops to operate, check the fuses first. A defective fuse has the thin wire inside broken.



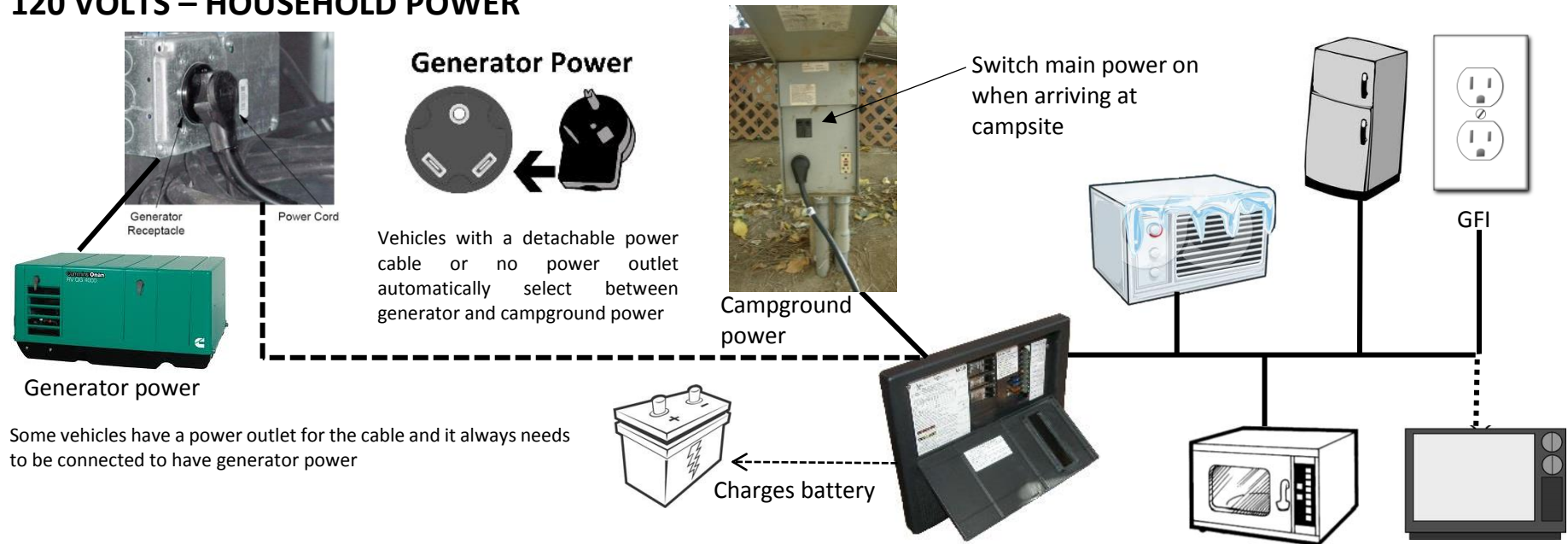
Good



Bad

TROUBLESHOOTER		
No power at all	Battery disconnect switch off	Turn battery disconnect switch back on
Battery level low on the monitor panel	Battery voltage is low	Recharge the battery by starting engine or hooking up at campground
Battery not charging while driving	Blown fuse	Call our Help Desk for assistance
Battery not charging with campground electricity	Tripped circuit breaker	Reset all circuit breakers in the power center
	Technical problem	Call our Help Desk for assistance
Lights don't turn on	Switch at wall or on lamp off	Turn both switches on
	Battery disconnect switch off	Turn battery disconnect switch on
Lights dim or half bright	Battery voltage is low	Recharge the battery by starting engine or connecting to campground

## 120 VOLTS – HOUSEHOLD POWER



## CIRCUIT BREAKERS

Each motor home has a fuse box which is located in the bedroom or living area. It contains a series of 120 volt circuit breakers. If any electrical appliance stops to operate, check first the circuit breakers.



- A circuit breaker ON
- B circuit breaker TRIPPED (activated)
- C circuit breaker OFF

see picture on next page  
on how to reset a breaker





1. Move breaker to OFF
2. Move breaker to ON

Turning the circuit breaker directly back ON will keep the electricity interrupted

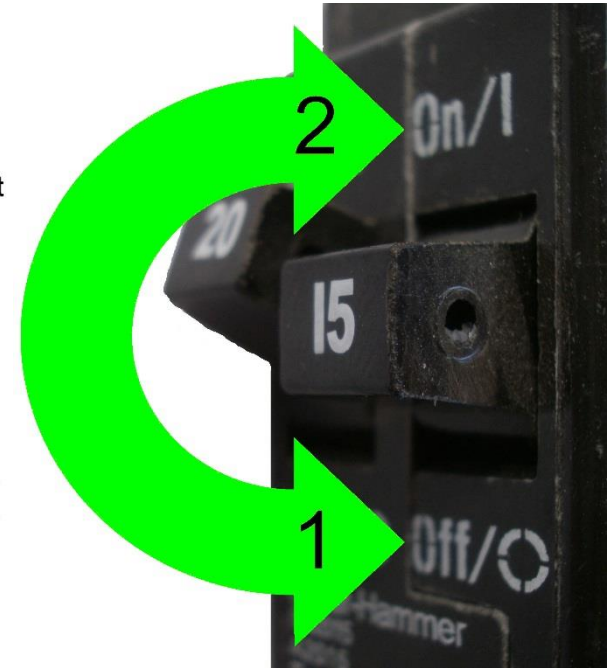
### GROUND FAULT INTERRUPTER (GFI/GFCI)

The GFI (Ground Fault Interrupter) is a special circuit breaker for 120 volt wall outlets. It is part of an electrical outlet – mostly in the bathroom. To reset, first unplug all devices and push the RESET button back in. It will only reset if you have 120 volt power from the campground or generator.



Push to Reset circuit after ground fault tripping.

Push to Test. Should break circuit. Press Reset button to reconnect.



### OVERLOADING THE CIRCUIT

Using more than one appliance at the same time will overload the circuit and interrupt the power. Turn off the air conditioner before using the microwave, toaster or hair dryer, etc.

TROUBLESHOOTER		
No electrical power	No power source	Check breaker at campground or generator
	Power cable unplugged	Plug in cable into junction box for generator or to campground
	Circuit breaker may be off or tripped	Reset breaker(s)
	Bad power cord adapter	Replace adapter
No power at receptacles (outlets)	No power source	Make sure you have power from the campground or generator
	GFI receptacle may be off or tripped	Reset GFI (only possible with 120V power to vehicle)
	Circuit breaker may be off or tripped	Reset breaker in fuse box

# GENERATOR

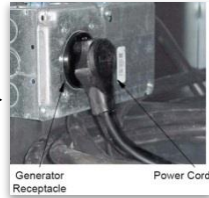


The generator uses gasoline from the vehicle fuel tank. A minimum of  $\frac{1}{4}$  fuel tank is needed in order to operate. Fuel use up to 0.7 gallon / 2.7 liter per hour. Using two appliances at the same time can overload the generator itself and shut it down. Turn off every appliance before re-starting the generator.

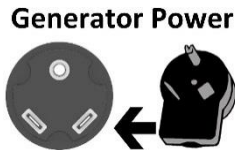
**NEVER run the generator for more than a minute with the green service door removed! Overheating and serious mechanical damage could occur!**



Circuit Breaker on Generator



Power Cord connected\*



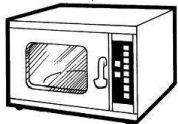
Generator Power



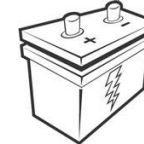
Fuse box with Circuit Breakers



\*Vehicles with a detachable power cable or no outlet to connect the cable automatically select between generator and campground power

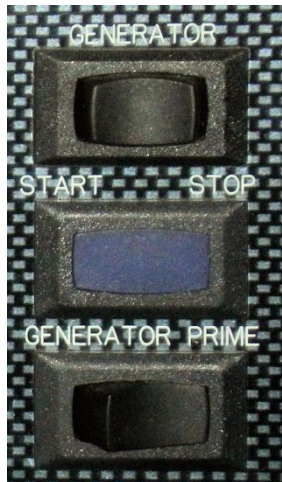


GFI



FILL TO THIS MARK

DO NOT RUN IF BELOW THIS MARK



The generator motor oil level needs to be inspected and adjusted every eight (8) hours of use.



**Higher temperatures & altitudes will reduce power output and can cause the generator to stop running. Temperatures above 100°F/38°C can cause vapor-lock and stop the generator from running (3.5% decrease for every 1000ft/300m in elevation and 1% decrease for every 10°F/5.5°C over 77°F/25°C**

The generator produces 3600 watts (4000 peak) 120 volts @ 30 amperes - Typical power usages:

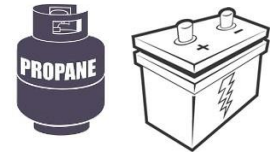
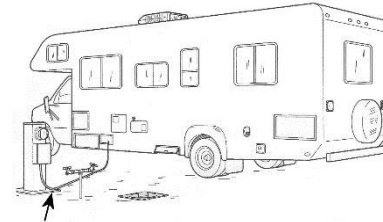
Air Conditioner	1200-2400 watts	10-20 amperes (30+ peak)	Microwave	900 watts	7.5 amperes
Coffee maker	900 watts	7.5 amperes	Toaster	900 watts	7.5 amperes
Laptop charger	300 watts	3 amperes	Battery charger	720 – 3360 watts	6-28 amperes

TROUBLESHOOTER		
Generator cranks but will not start	Generator may be out of fuel	Press 'Prime' or 'Stop' button for 15 seconds and try again
		Check the fuel level - At least ¼ of fuel in tank required
	Vapor-lock	It is too hot – wait for cooler temperatures
Generator runs but no power	Circuit breakers may be off or tripped	Reset breaker at generator / in fuse box
	Power cable unplugged	Plug power cable into receptacle – if equipped
Circuit breaker trips	Overloaded circuit	Turn off all the electrical load and reset the circuit breaker
Stops when driving around corners	Low on fuel	Refill fuel tank – more than ½ full is recommended

## REFRIGERATOR



The refrigerator is using propane or household (120 volt) power to cool but needs battery power (12 volt) to operate. For an extended stay it is recommended to have electricity from the campground. The motor home refrigerator is technical different from a household refrigerator and therefore less efficient by design.

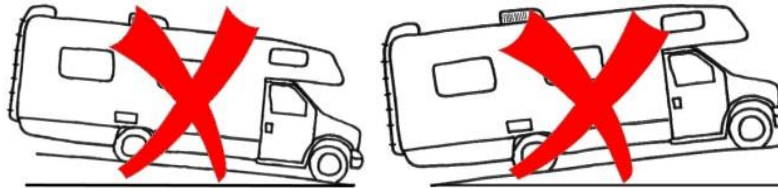


For proper operation, the vehicle needs to be on level ground. Use levelers as needed.

### Leveling:



**CAUTION:** The refrigerator is made to operate within 3° off level side-to-side and 6° off level front-to-back (as looking at the front of the refrigerator). Operating it at more than these limits can cause damage to the cooling system and create a risk of personal injury or property damage. Make sure the vehicle is level before you operate the refrigerator.



You can download a leveling app to your phone or a drinking glass filled with water can also be used.

For the most efficient operation pre-cool all food at home; do not place any hot or warm food in the refrigerator and do not overfill it, blocking air circulation. If possible, keep the refrigerator side of the motor home in the shade.



The DOMETIC model has an adjustable temperature sensor. Make sure the sensor cable is not hanging loose.



Refrigerators work best with outside temperatures between 32 -75°F (0-25°C) and below 5000 feet (1500 meter) elevation

## Operation

**DOMETIC**

1. ON/OFF button (main power)  
2. AUTO/GAS mode selector button  
A. AUTO mode indicator lamp  
B. CHECK indicator lamp (GAS mode only)

Push button 1 to turn ON the refrigerator  
Set button 2 to Auto mode (pushed in)  
A indicates AUTO mode  
B indicates propane ignition problem

**NORCOLD**

Move switch (1) to AUTO mode  
Select temperature (2)  
(3) = power on  
(4) = propane operation  
(4) Flashing = Blinking = Ignition Error

Press button (1) to turn on – green LED (2) on  
Select AUTO mode (3) – (4) lights up  
Select temperature (5, 6)  
(7) = electrical operation  
(8) = propane operation  
A red light (2) indicates a problem

**Refrigerators work best with outside temperatures between 32 -75°F (0-25°C) and below 5000 feet (1500 meter) elevation**

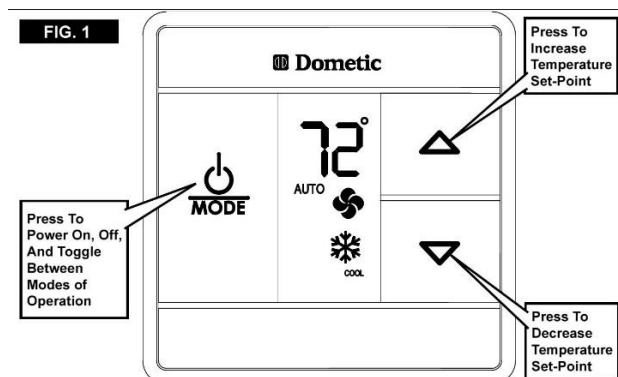
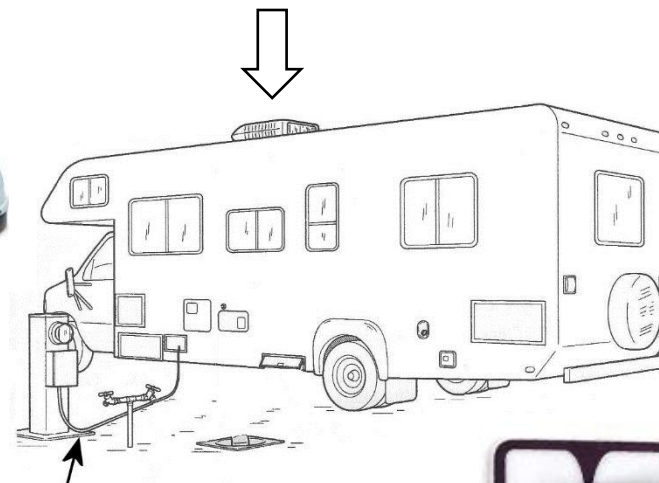
TROUBLESHOOTER		
CHECK light on / GAS light blinking	Temporary malfunction	Turn off and wait about 45 seconds before turning it back on
	Main valve closed or out of propane	Open main valve or fill propane tank
	Ignitor problem	Elevation – Air/gas mixture unable to ignite – travel to lower altitude
		Visit a repair facility – see page 15
Refrigerator is off	Turned off	Turn it on
	No or low 12V power	Turn battery disconnect on/recharge battery
	Fuse blown	Check and replace fuse
	Thermal fuse tripped	Reset thermal fuse on back of refrigerator (outside)
Reduced cooling	Outside extremely hot	Move out of sunshine
	Temperature sensor not properly adjusted or hanging loose	Adjust temperature sensor (Dometic only)
	Motor home not level	Level out motor home
Refrigerator not cooling	Any of the above	All of the above
	Motor home not level	Level out motor home and turn off refrigerator. Requires complete shut down for 12 hours. Vibrations while driving may restore system but problem may persist and will require a larger repair.



# AIR CONDITIONER



The roof air conditioner requires power from the campground or the generator to operate but also battery power for the controls. See pages 34 – 38



1. Press (MODE) once
  2. Fan – Select Au (auto)\* (press  $\Delta$  &  $\nabla$  to change selection)
  3. Press MODE again
  4. Select temperature
- To turn OFF - press MODE again 2x  
To change between Fahrenheit & Celsius press the  $\Delta$  &  $\nabla$  buttons at the same time

\*In Hi or Lo the fan will work without cooling



1. System – Select COOL
  2. Fan – Select Auto Low
  3. Select temperature
- To turn OFF – Select System OFF



Ceiling mounted model:

1. Cooling – Turn system knob
2. Select temperature

Note: There is NO heat from the air conditioner



**To avoid electrical overload (tripping circuit breaker or stalling generator) wait 3 minutes between turning the A/C on again.**

**NOTE - The air conditioner can only cool about 20°F/11°C temperature difference. With outside temperatures of 100°F/38°C it can take hours to cool to a comfortable temperature. Opening windows and doors will prolong the cooling time.**

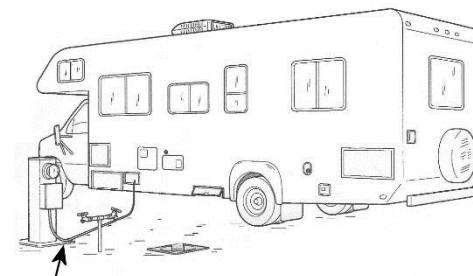
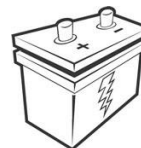
## TROUBLESHOOTER

A/C does not run	No power source	Make sure you have power from the campground or generator
	Circuit breakers may be off or tripped	Reset circuit breakers at campground, fuse box and/or generator
A/C not or weak cooling	Evaporator coils are iced up	Turn A/C off and run fan only for about 1 hour
Blower runs but no cooling	Blower on but not the A/C	Set fan to AUTO and switch to COOL

# FURNACE (HEATER)

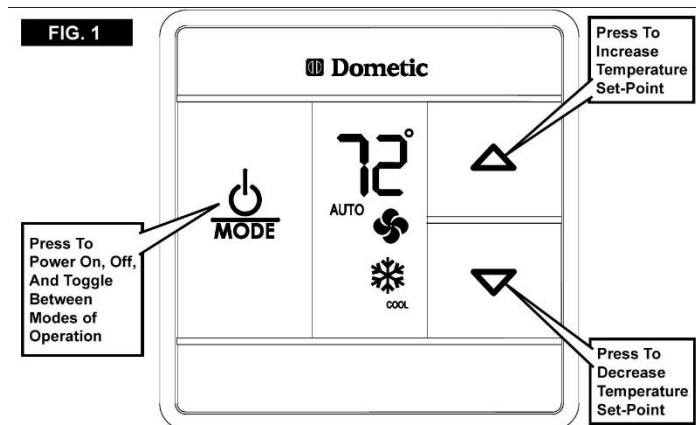


The furnace (heater) is using propane and requires battery power. For a stay longer than one night it is strongly recommended to have electricity from the campground



**During any extended stay without campground power supply, the furnace will drain the battery in just one night at low temperatures. See page 34 (12 Volts Battery Power)**

To operate the furnace, ensure to have enough propane and campground power or a fully charged battery



To change between Fahrenheit & Celsius press the  $\triangle$  &  $\nabla$  buttons at the same time.

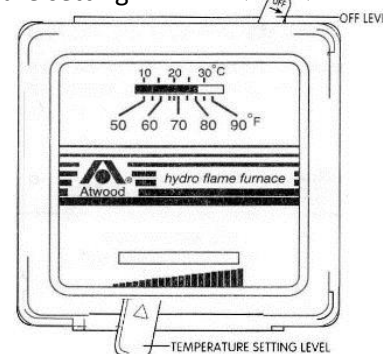
Fan: Set to AUTO - in Hi or Lo the fan of the air conditioner will blow unrelated to heating

A built-in time delay keeps the fan run longer than there is actual warm air.

OFF  $\leftarrow$   $\rightarrow$  ON & Temperature setting



ON  $\leftarrow$   $\rightarrow$  OFF



- Move top lever to ON (may go hard)
- Adjust temperature at bottom



1. System – Select HEAT
  2. Fan – Select Auto Low
  3. Select temperature
- To turn OFF – Select System OFF

## TROUBLESHOOTER

Furnace blows only cold air	Out of propane or main valve closed	Fill propane tank or open main valve
	Too cold outside - Propane cannot vaporize	Travel to warmer weather or use electrical space heater
	Technical defect	Ask for assistance on campground or call the Help Desk
Furnace does not run at all	No 12V power or blown fuse	Turn battery disconnect on or replace fuse in fuse box
	Breaker tripped	Reset switch behind exterior access door (plastic with exhaust)

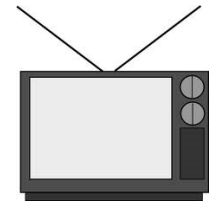
## TV & DVD PLAYER

**SOME TVS THAT COULD DISTRACT THE DRIVER WILL NOT OPERATE WHILE VEHICLE IS IN MOTION!**



Most TVs & DVD players work with battery power, but some models require campground power (120 volts).

In some vehicles there is a separate power switch for the TV & DVD.



TVs usually have a power light on the front:

JENSEN: A blue LED indicates there is power to the TV. When the TV is turned on, the LED turns off (black).

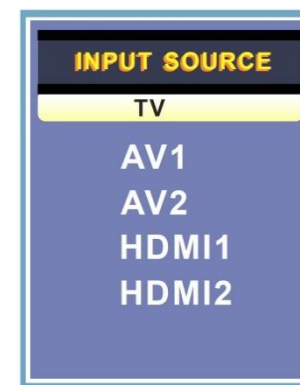
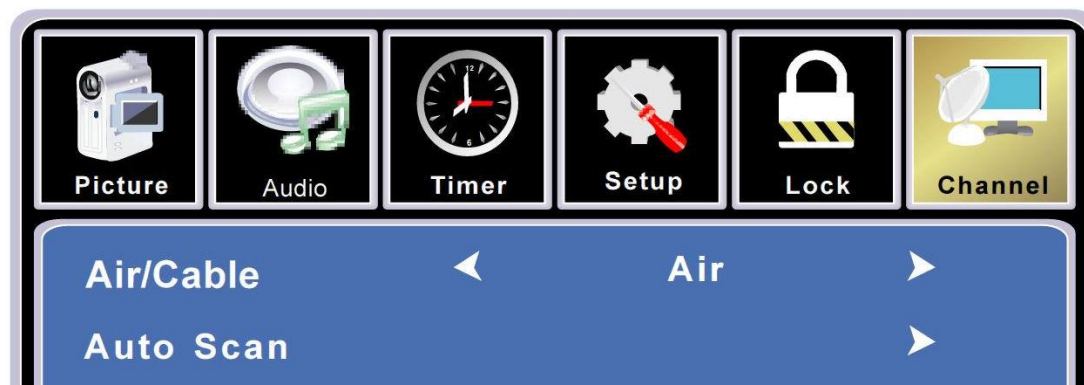
FURRIOR: A red LED indicates there is power to the TV. When the TV is turned on, the LED turns green.

DVD players usually light up and show the clock or mode when power is present.

1. Connect the optional TV cable (if service available) to motor home & campsite.
2. AMPLIFIER – For cable reception turn it OFF / for antenna reception turn it ON. The amplifier is usually built into the TV cable outlet. In some models it could be separate inside or on the outside of an overhead cabinet.
3. Set the input source to TV [press source/input button on TV or remote].
4. Select AIR or CABLE in the CHANNEL menu and run an AUTO SCAN to receive the locally available channels. Repeat this step at every new campground.



TV – Antenna or cable  
AV1 – DVD player



DVDs need to be designed for Region 1 (USA & Canada) to properly work. If you brought DVDs from home, they may not play.



TROUBLESHOOTER		
TV does not turn on	TV power switch off	Turn TV switch on (usually near DVD player)
	Power plug in cab-over not fully plugged in	Check connector and plug in properly
	Circuit breakers may be off or tripped (120 volts)	Reset circuit breakers
	Fuse blown* (12 volts)	Replace fuse*
	Ignition interlock activated	Move TV out-of-view of the driver
		Remove ignition key from lock
No picture / reception	Input source incorrect	Change input source as required
Poor/no cable TV reception	Antenna amplifier turned on	Turn amplifier switch off & do channel search (auto scan)
Poor antenna reception	Amplifier not turned on	Turn amplifier switch on & do channel search (auto scan)
DVD not playing	TV not set to AV	Change input source on TV to AV
	Incorrect region	There is nothing one can do
	Cables not connected	Check audio/video cables at TV/DVD player
	Technical glitch	Press reset button and try again

\*some TVs have an in-line fuse in the power cable of the TV in addition to a main fuse in the fuse box.

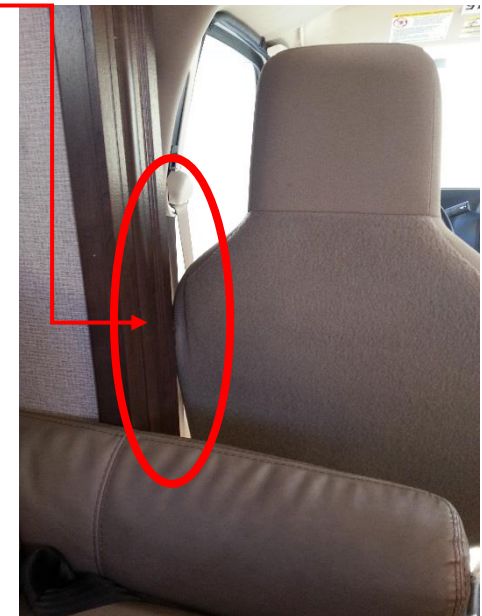
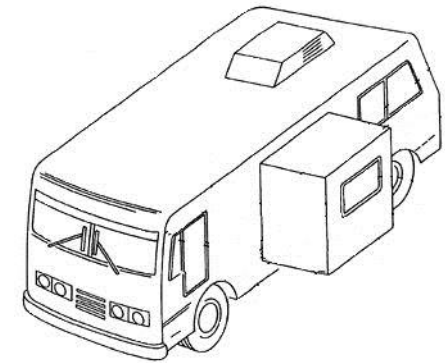


## SLIDE ROOM (SLIDE-OUT)

The slide room (if equipped) is a great feature that allows you to greatly expand your living space while parked.

Please follow these instructions before operating the slide room to assure proper function:

1. Make sure the motor home is level
2. The parking brake has to be engaged
3. Make sure the transmission is in the 'P' (park) position
4. Turn the engine off and remove the ignition key or the slide room will not operate
5. Make sure the driver seat backrest is moved forward so that it does not interfere with the motion of the slide room trim. Damages to the driver seat and slide room trim are the responsibility of the renter
6. Verify clearance to objects on the outside before operating the slide room to its full extension (min. 3.3 ft. / 100 cm outside clearance)
7. Make certain that no objects get jammed between the slide room frame and the sidewall while extending the slide room. **NEVER store anything on top or next of the slide room**
8. Do not allow anyone to sit on the slide room sofa, bed and/or dinette while operating the slide room
9. Push the button to extend the slide room until the slide room stops completely **and the motors turn off automatically** – hold button for 3 more seconds



**NEVER drive the motor home while a slide room is extended**

To retract the slide room, repeat steps 5 – 9. Make sure the path is clear of objects and watch your feet while retracting

TROUBLESHOOTER		
Slide room does not move	Safety inter-lock engaged	Remove key from ignition and apply parking brake
	No power supply	Turn on battery disconnect
	Weak battery	Run engine for 15 min. – start generator – turn off engine
	Fuse blown	Connect to campground electricity
Slide room only moves on one side	Possible mechanical/electrical defect	Replace fuse
		Retract as much as possible to be able to drive – call Help Desk



## AWNING



Before rolling out the awning, ensure there is enough space to fully extend it and that it does not interfere with tree branches, etc.

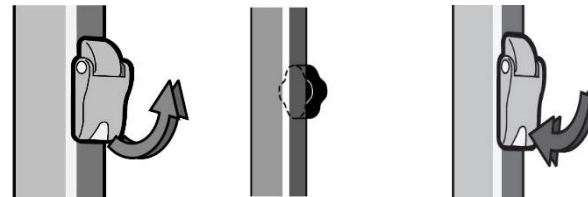


**NEVER roll out the awning in windy conditions or rainy weather!**

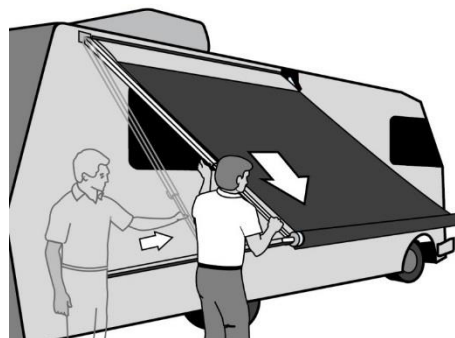
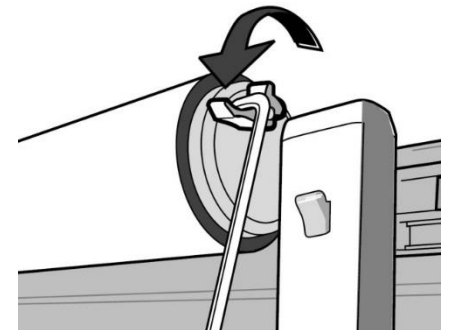
**NEVER leave the awning unattended (absence or overnight)!**

To enjoy the shade an awning can provide, follow these steps:

1. Release the travel locks and loosen the tightening wheels on both arms



2. Flip the release lever at the roller tube to the 'roll down' position, using the pull rod
3. Pull the pull strap using the pull rod. Do not release the awning pull strap.

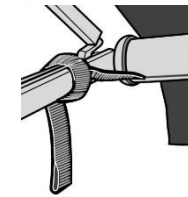
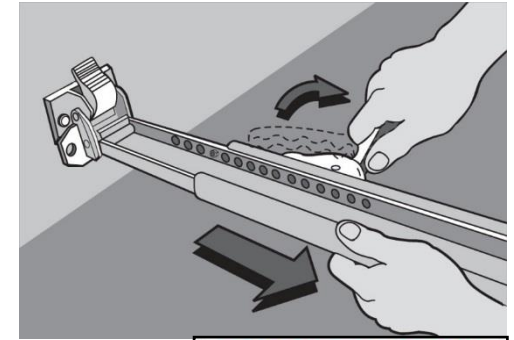


4. Once the awning is rolled out all the way, move the rafter arms all the way out to the roller tube, stretch the fabric and secure the tightening wheels.

5. To raise the awning up, fold out the handle on the awning arm and pull up to the desired height. Ensure the latching mechanism is properly engaged before letting go



**NEVER release the awning arms  
from the wall brackets at any time!**



To keep the awning pull strap from getting dirty or lost, wrap it loosely around the awning arm closest to the release lever

To roll up the awning into the travel position have a 2<sup>nd</sup> person to assist. Center the strap and pull. Hold on tight! The 2<sup>nd</sup> person flips the release lever. Slowly let the awning roll up – using the pull rod. Ensure the travel locks are engaged and the tightening wheels are tight

Ensure the release lever at the roller tube is in the 'ROLL UP' position - use the pull rod to adjust if needed



**CAUTION: When it is windy or rainy, retract and  
roll-up the awning!**

Remember – Weather conditions can change rapidly.  
Especially in the desert and mountains!



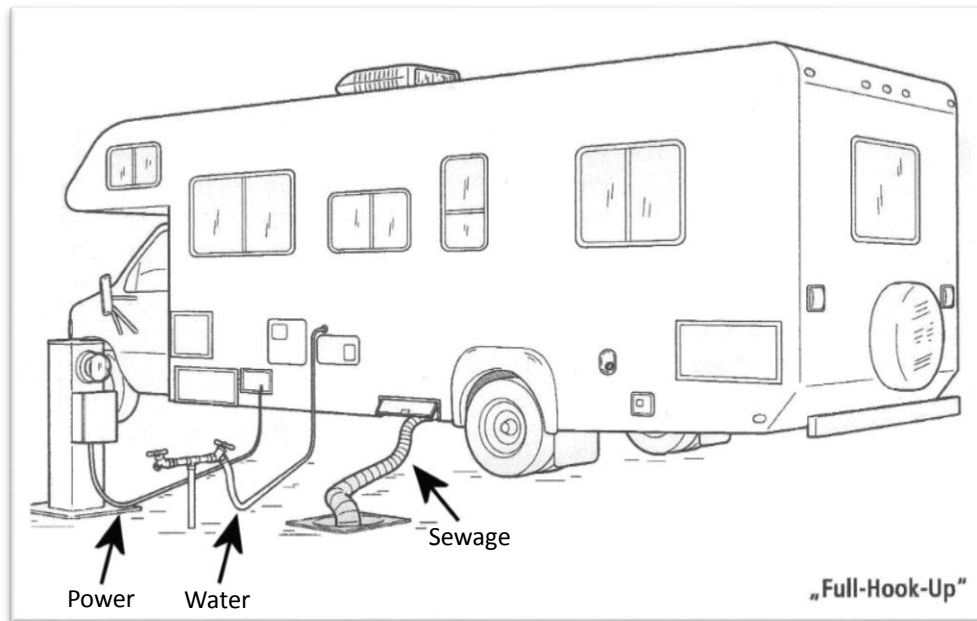
**Before driving off – ensure the awning is properly secured**

# SETTING UP AND BREAKING DOWN CAMP



## When you arrive at the camp site

1. Have a passenger guide you into the camp site to prevent hitting an obstacle and damage the vehicle
2. Park the motor home on a level surface. Otherwise use the levelers to level the vehicle from front to back and side to side (see page 39 – Refrigerator)
3. Apply the parking brake before shifting into park
4. Before extending the slide rooms make sure there is enough clearance
5. If equipped – extend the entry step (turn off the electrical step, so it remains extended)
6. Hook up the power cord, fresh water and sewer hose
7. Turn on air conditioner or heater – as needed
8. Turn on water heater

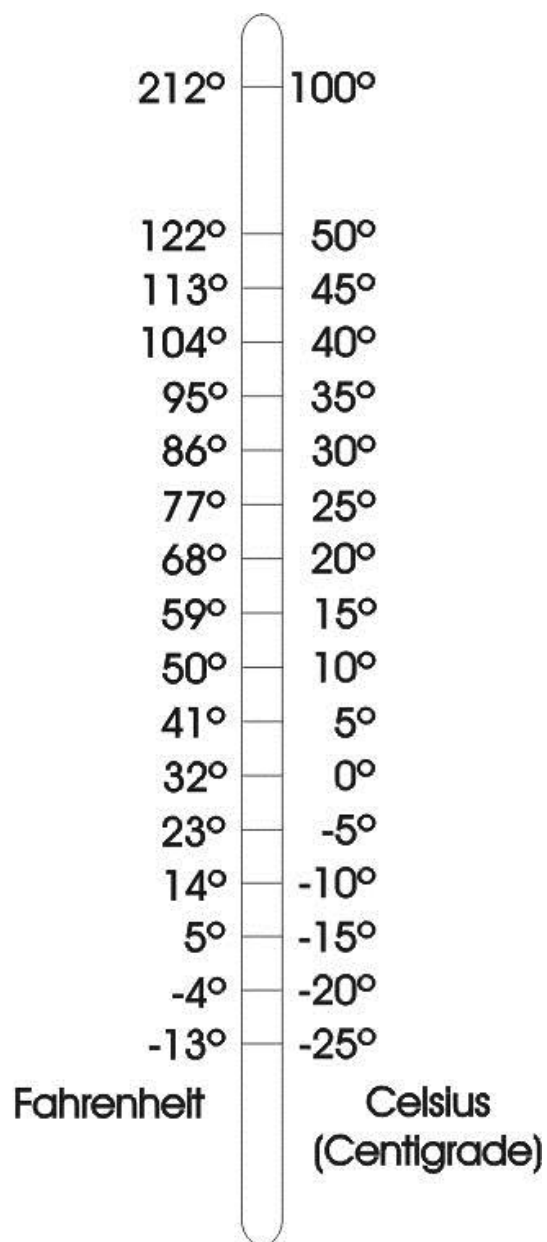


## Before leaving the camp site

1. Roll up and secure the awning
2. Retract the slide room(s)
3. Close all roof vents and windows
4. Turn off the air conditioner/heater
5. Turn off the water heater and water pump
6. Unplug and store the power cord and TV cable
7. Disconnect and store the fresh water hose
8. Close dumping valves, disconnect and rinse the sewer hose and store it. Put the sewer cap on
9. Release the parking brake and drive motor home off levelers
10. Put levelers in storage
11. Close and lock all compartment doors
12. If equipped – retract the entry step (turn on electrical step, so it retracts when closing the door)
13. Lock the entry door
14. Secure any loose items in the motor home
15. Close all drawers and cabinets inside the motor home
16. Ensure everybody is buckled in
17. Drive carefully on the campground and roads – request help from a passenger in narrow spots

For safety reasons Road Bear RV / Britz USA does not recommend 'street-side' camping, which is illegal in some states

## MEASUREMENT CONVERSIONS



Length	
1 Kilometer (km)	0.621 miles
1 Meter (m)	3.28 feet
1 mile (mi) / 5730 feet	1.609 kilometers
1 foot (ft.)	30.48 centimeters
1 inch (in)	2.54 centimeter
Liquids	
1 gallon (gal)	3.78 liters
1 quart (qt.)	0.94 liters
1 ounce (fl. oz.)	0.03 liter
1 liter (lt.)	0.264 gallons
Weight	
1 kilogram (kg)	2.205 pounds
1 ounce (oz.)	28.35 grams
1 pound (lb.)	453 grams
1 ton (t) / 2000 lbs.	906 kilograms
Speed	
35 miles per hour (mph)	56 kilometers per hour
45 miles per hour (mph)	72 kilometers per hour
55 miles per hour (mph)	88 kilometers per hour
65 miles per hour (mph)	105 kilometers per hour
75 miles per hour (mph)	120 kilometers per hour

## VEHICLE SPECIFICATIONS

Model	U-; Class A	R-; Class C	P-; Class C	M-; Class C	L-; Class C
	30-32 ft.	28-30 ft.	25-27 ft.	22-24 ft.	21-23 ft.
Gross Vehicle Weight	18,000 lbs. / 8154 kg	14,500 lbs. / 6568 kg	14,500 lbs. / 6568 kg	12,500 lbs. / 5662 kg	10,360 lbs. / 4699 kg
Gasoline grade (minimum)	Minimum: Unleaded 89 octane or higher				
Motor & Generator oil	Noted on filler cap (if not available: 5W-30 acceptable)				
Coolant / Anti-freeze	Red in color – fill only with drinking water!				
Tire pressure	See information near driver seat / on door jamb				
Automatic transmission	6 gears with tow/haul mode				
Engine Type / Size	Gasoline V-10 / 6.8L				Gasoline V-6 / 3.7L
Engine Power	320 HP / 324 PS	305 HP / 309 PS			275 HP / 278 PS
Engine Torque	460 ft-lb / 623 Nm	420 ft-lb / 569 Nm			260 ft-lb / 352 Nm
Fuel tank capacity	80 gal / 302 liters	55 gal / 210 liters		40-55 gal / 150-210 liters	25 gal / 95 liters
Fuel consumption	5-8 mpg / 30-45 l/100km	7-10 miles per gallon / 25-35 liters per 100 km			9-12 mpg / 19-26 l/100km
Required width clearance	10’10” / 330 cm	10’6” / 320 cm			9’5” / 290 cm
Required vertical (height) clearance	13’ / 396 cm	12’ / 365 cm			
Interior height	7’ / 213 cm	6’10” / 208 cm			6’9” / 205 cm
Microwave volume	0.9 - 1.2 cu ft. / 25 - 34 liters				
Refrigerator volume	6 cu ft. / 170 liters				
Allowable city water pressure	45 Pound Square Inch / 3.1 bar				
Electricity power supply	120 Volt AC, 60 Hz, 30 Amp				
Water heater capacity	6 gallons / 22 liters; about 20 – 30 minutes until hot water is available				
Fresh water capacity	50 gal / 189 liters	48 gal / 180 liters	56 gal / 210 liters	56 gal / 210 liters	38 gal / 143 liters
Grey water capacity	44 gal / 166 liters	28 gal / 105 liters	28 gal / 105 liters	28 gal / 105 liters	28 gal / 106 liters
Black water capacity	40 gal / 151 liters	28 gal / 105 liters	22 gal / 83 liters	22 gal / 83 liters	2x 21 gal / 2x 79 liters
Propane tank (gallons / liters) Fill capacity is limited to 80%	20 gal / 74 liters	16 gal / 60 liters	16 gal / 60 liters	10 gal / 37 liters	10 gal / 37 liters

ALL MEASUREMENTS ARE APPROXIMATE, NOT GUARANTEED AND MAY BE DIFFERENT FOR INDIVIDUAL VEHICLES  
AND MAY CHANGE ANY TIME WITHOUT PRIOR NOTICE!



# RETURNING THE MOTOR HOME AT THE END OF YOUR TRIP

1. **RETURN** the motor home between **8:00** and **10:30 a.m.** If you do not require the transfer to the airport or airport hotels, return no later than **11:00 a.m.** If the motor home has any damage, please return before 09:30 a.m.

2. **BEFORE** returning to ROAD BEAR RV; at the last campground or overnight stop:

a. **Dispose** of any left-over food and trash



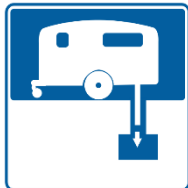
b. **Pack** your personal belongings and luggage



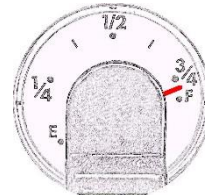
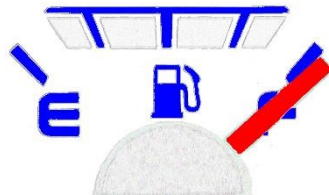
c. **Clean** the inside (wipe clean the shower, toilet, sinks, refrigerator, stove, oven, microwave; wash the dishes, pots, pans, and coffeemaker) and sweep out the motor home



d. **Drain** the waste water tanks. **Tanks must be empty!**



3. Fuel and propane tanks need to be **FULL** (verify the tank indicators!)



4. At ROAD BEAR RV:
  - a. Please unload all linens and camping chairs and put them in their designated return areas
  - b. Please unlock all exterior compartment doors
  - c. Check all storage areas and cabinets, remove all personal items. Items left behind will be discarded after 14 days
  - d. Let our office staff know that you are ready for the check-in

## COMPLEMENTARY SHUTTLE SERVICE



The vehicle return has to be concluded by 10.30 am for the transfer. The shuttle transfer to the airport or airport hotels departs ROAD BEAR RV at 11:00 a.m.!

If you require a taxi to an alternate location or for an early flight, please contact the return location in advance



**There is no shuttle service for late returns!**

## MINIMUM CHARGES

- |                 |  |
|-----------------|--|
| - Late charges: | US\$ US\$300.00 plus direct customer daily rate            |
| - Gasoline:     | As calculated upon return plus a handling fee              |
| - Propane:      | As calculated upon return plus a handling fee              |
| - Dumping:      | up to US\$ 75.00   |
| - Cleaning Fee: | US\$ 50.00 minimum; US\$ 250.00 minimum for smoking & pets |



# RENTAL LOCATION ADDRESS LISTINGS

## Business Hours:

Monday – Friday      8:00 AM – 5:00 PM      Saturday      8:00 AM – 1:00 PM (by appointment)  
 Sundays & Holidays      closed      (New Year's Day, Presidents Day; Memorial Day; 4<sup>th</sup> of July; Labor Day; Thanksgiving Day, Christmas Day)

Denver (DEN)	7685 Dahlia Street www.roadbearrv.com/den	Commerce City, CO 80022 22 miles / 35 km from DEN airport – No public transport access	Tel: 1-720-570-1100	Toll free: 1-866-457-1100
Las Vegas (LAS)	4730 Boulder Highway www.roadbearrv.com/las	Las Vegas, NV 89121 8 miles / 13 km from LAS airport – Impractical public transport access	Tel: 1-702-453-1109	Toll free: 1-866-303-1057
Los Angeles (LAX)	28404 Roadside Drive www.roadbearrv.com/lax	Agoura Hills, CA 91301 36 miles / 58 km from LAX airport – Impractical public transport access	Tel: 1-818-991-2794	Toll free: 1-866-527-6876
New York (NYC)	42 State Route 36 East www.roadbearrv.com/nyc	North Middletown, NJ 07748 33 miles / 53 km from EWR airport - NJ TRANSIT train between Middletown and EWR & Manhattan / Ferry between Belford/Harbor Way and Manhattan – Free transfer to & from train station/ferry terminal offered <u>with prior appointment only</u>	Tel: 1-732-495-0959	Toll free: 1-866-787-3682
Orlando (MCO)	3800 W Colonial Drive www.roadbearrv.com/mco	Orlando, FL 32808 17 miles / 27 km from MCO airport – Impractical public transport access	Tel: 1-407-384-9241	Toll free: 1-855-926-8727
San Francisco (SFO)	420 San Leandro Blvd www.roadbearrv.com/sfo	San Leandro, CA 94577 30 miles / 48 km from SFO airport – BART (train) to/from downtown & airport	Tel: 1-510-564-4444	Toll free: 1-866-249-1119
Seattle (SEA)	1541 South 96 <sup>th</sup> Street www.roadbearrv.com/sea	Seattle, WA 98108 7 miles / 11 km from SEA-TAC airport – Bus 132 stop Des Moines Memorial Drive S at S 96 <sup>th</sup> St	Tel: 1-206-334-7303	Toll free: 1-855-732-1541

For maps visit the [Road Bear RV website](http://www.roadbearrv.com/rv-rental-locations)<sup>1</sup> or [Google Maps](https://maps.google.com)<sup>2</sup>

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<sup>2</sup> <https://maps.google.com>