

# Appliance and Entertainment Guide



Class A and C Motorhomes



# About This Guide

Thank you for choosing Thor Motor Coach (TMC). This Appliances and Entertainment System Guide is intended to help you understand and operate these convenient devices of your new motorhome. It includes information provided by your selling dealer during your new motorhome pre-delivery inspection (PDI), and much more.

This guide is not intended for use as a service manual, nor is it model specific. Although some information is specific to certain brands and models, it is of a general nature, and the illustrations and descriptions provided may differ from the components installed in your motorhome.

## Thor Motor Coach's Continuing Commitment

Thor Motor Coach's continuing commitment is to provide quality products and systems for its motorhome customers. Appliance and entertainment devices, features, and options will constantly change as new and improved devices become available.

## Contact Us

You are extremely important to us, and you can be assured Thor Motor Coach and your selling dealer will always strive to do everything possible to earn your trust and goodwill. Your selling dealer should be your first source for information regarding any questions or concerns you may have about your motorhome.

You can also contact TMC Customer Care anytime you have a question about your motorhome or the operation of any factory-installed appliance, equipment, or component.

By telephone, TMC Customer Care representatives are available Monday through Friday, 8:00 am to 5:00 pm EST. If you call off-hours, leave a detailed message and a representative will contact you ASAP.

Contact to a TMC Customer Care representative is also available via direct email or email through the Thor Motor Coach website. You can also send or fax written requests to the address and number listed below:

**Thor Motor Coach**  
**Attn: Customer Care**  
**PO Box 1486**  
**Elkhart IN 46515-1486**

**Phone: 877-855-2867 (24/7 assistance)**  
**Fax: 574-294-3816**  
**Email: [wsupport@tmcrv.com](mailto:wsupport@tmcrv.com)**  
**Website: [www.thormotorcoach.com](http://www.thormotorcoach.com)**

Thor Motor Coach (TMC) reserves the right to make changes in vehicles built and/or sold at any time without incurring any obligations to make the same or similar changes on vehicles previously built and/or sold by TMC. Information in this systems guide is subject to change without notice and represents information relevant at the time of publication. Nothing in this systems guide creates any warranty, either expressed or implied. The only warranties offered by Thor Motor Coach are those set forth in the Thor Motor Coach Limited Warranty and in the Thor Motor Coach Structural Limited Warranty, as applicable to the motorhome. Appliance manufacturers may offer limited warranties on products installed in your Thor motorhome, subject to product registration. Product registration is the responsibility of the motorhome owner.

## Appliance and Entertainment Component Suppliers:

### Antennas

Over-the-Air	<u>Winegard Company:</u> <a href="http://www.winegard.com">www.winegard.com</a> <u>King Controls:</u> <a href="http://www.kingconnect.com">www.kingconnect.com</a>
Satellite, TV	<u>Winegard Company:</u> <a href="http://www.winegard.com">www.winegard.com</a>
Satellite, Radio	<u>River Park Inc:</u> <a href="http://www.riverparkinc.com">www.riverparkinc.com</a>
WiFi	<u>Winegard Company:</u> <a href="http://www.winegard.com">www.winegard.com</a>

COAX Distribution Furrion: [www.furrion.com](http://www.furrion.com)

### Cooktop

Atwood	<u>Atwood Mobile Products:</u> <a href="http://www.askforatwood.com">www.askforatwood.com</a>
Tru Induction	<u>Dehco/Cast Products:</u> <a href="http://www.dehco.com">www.dehco.com</a>
Dometic	<u>Dometic Corporation:</u> <a href="http://www.dometic.com/en-us/us/">www.dometic.com/en-us/us/</a>
High Pointe	<u>Collins and Company:</u> <a href="http://www.collins-n-co.com">www.collins-n-co.com</a>

Dishwasher Westland Sales: [www.westlandsales.com](http://www.westlandsales.com)

DVD/Blu-Ray Player RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)  
ASA Electronics: [www.asaelectronics.com](http://www.asaelectronics.com)

HDMI Distribution RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)

### Microwave

Greystone	<u>Way Interglobal Network:</u> <a href="http://www.wayinterglobal.com">www.wayinterglobal.com</a>
High Pointe	<u>Collins and Company:</u> <a href="http://www.collins-n-co.com">www.collins-n-co.com</a>
Whirlpool	<u>Whirlpool:</u> <a href="http://www.whirlpool.com">www.whirlpool.com</a>

Oven Atwood Mobile Products: [www.askforatwood.com](http://www.askforatwood.com)

### Radio, Dash

Axxera	<u>MITO Corporation:</u> <a href="http://www.mito-oem.com">www.mito-oem.com</a>
Sony	<u>RiverPark Inc:</u> <a href="http://www.riverparkinc.com">www.riverparkinc.com</a>

Radio, Wall Mount ASA Electronics: [www.asaelectronics.com](http://www.asaelectronics.com)

### Refrigerator

Dometic	<u>Dometic Corporation:</u> <a href="http://www.dometic.com/en-us/us/">www.dometic.com/en-us/us/</a>
Norcold	<u>King Controls:</u> <a href="http://www.kingconnect.com">www.kingconnect.com</a>

Pummell Drive      Mid-West Sales: [www.midwestsales.org](http://www.midwestsales.org)  
Whirlpool            Whirlpool: [www.whirlpool.com](http://www.whirlpool.com)

#### Soundbar

Connex              RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)  
JBL                   RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)  
ProScan             MITO Corporation: [www.mito-oem.com](http://www.mito-oem.com)  
Seiki                 MITO Corporation: [www.mito-oem.com](http://www.mito-oem.com)  
Vizio                 MITO Corporation: [www.mito-oem.com](http://www.mito-oem.com)  
Yamaha              Quest Audio Video: [www.questav.com](http://www.questav.com)

#### Televisions

Axxera              MITO Corporation: [www.mito-oem.com](http://www.mito-oem.com)  
GPX                  Mid-West Sales: [www.midwestsales.org](http://www.midwestsales.org)  
Jensen              ASA Electronics: [www.asaelectronics.com](http://www.asaelectronics.com)  
LG                    Quest Audio Video: [www.questav.com](http://www.questav.com)  
Sansui              RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)  
Seiki                 MITO Corporation: [www.mito-oem.com](http://www.mito-oem.com)  
Sony                 RiverPark Inc: [www.riverparkinc.com](http://www.riverparkinc.com)

Washer/Dryer      Whirlpool: [www.whirlpool.com](http://www.whirlpool.com)

#### WiFi Extenders

Winegard           Winegard Company: [www.winegard.com](http://www.winegard.com)  
WiFi Ranger        WiFi Ranger: [www.wifiranger.com](http://www.wifiranger.com)

#### Other Resources:

Thor Motor Coach Customer Care: **877-855-2867**

Thor Motor Coach Customer Resources Web Site:

<https://thormotorcoach.com/motorhome-owners-resources/>

Thor Motor Coach YouTube Site: <https://www.youtube.com/user/ThorMotorCoach>

This page intentionally left blank

# Table of Contents

<b>Safety</b> .....	<b>1</b>	<b>Entertainment Devices</b> .....	<b>26</b>
Safety Labels, Alerts, and Symbols .....	1	Televisions .....	26
<b>Requirements for Safe Energy Use</b> .....	<b>2</b>	A/V Switchboxes .....	27
Propane Requirements .....	2	Cable TV Hook-up .....	28
Propane Safety .....	2	Home Theatre System (optional) .....	28
Electrical Requirements .....	3	Satellite TV Hook-up .....	29
Electrical Safety .....	4	DVD/Blu-Ray Player .....	30
<b>Kitchen and Appliances</b> .....	<b>5</b>	Radios .....	30
Introduction .....	5	Dash Radio .....	30
Kitchen Made to Travel .....	5	House Radios .....	31
Cabinets .....	5	WIFI Extenders (optional) .....	32
Countertops .....	6	Winegard Connect 2.0+ .....	32
Kitchen Sink and Faucet .....	7	WiFi Ranger Sky 3 .....	33
Exterior Kitchen Unit (optional) .....	7	Other Entertainment Devices .....	35
Cooktops and Ovens .....	8		
Propane Gas Use .....	8		
Gas Range and Oven Combination .....	10		
Gas Cooktops .....	12		
Induction Cooktops .....	12		
Microwave Oven .....	15		
Microwave/Convection Oven .....	16		
Kitchen Refrigerator .....	18		
Residential Refrigerator Operation .....	18		
Gas/Electric Refrigerator Operation .....	19		
Effects of High Altitude on Propane Gas			
Operation .....	23		
Effects of Freezing Temperatures on			
Refrigerator Operation .....	23		
Care and Maintenance .....	23		
Outside Kitchen Refrigerator (optional) .....	24		
3-Way Kitchen Refrigerator (if equipped) .....	24		
<b>Optional Appliances</b> .....	<b>25</b>		
Dishwasher .....	25		
Clothes Washers and Dryers .....	25		

This page intentionally left blank



# Safety

## Safety Labels, Alerts, and Symbols

Safety labels and decals are placed throughout the motorhome in locations where the potential for a hazardous condition is present. Make sure that you and your traveling companions understand and follow all safety instructions. Never remove safety labels and decals. If a safety label should become damaged, illegible, or removed, it should be replaced as soon as possible. Contact Thor Motor Coach Customer Care for a replacement.

Thor Motor Coach uses the following signal words to warn you of possible safety concerns and to provide information to help prevent personal injury and/or damage to the motorhome:

**NOTE:** Provides helpful information on the topic being covered in the section.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. This symbol may be used in conjunction with the following signal words and with a color that corresponds with the associated safety label.

### **⚠ DANGER**

Danger indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This alert information is limited to the most extreme situations.

### **⚠ WARNING**

Warning indicates a potentially hazardous situation that, if not avoided, may result in death or serious injury.

### **⚠ CAUTION**

Caution indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

### **NOTICE**

A Notice indicates a potential situation that, if not avoided, may result in property damage or damage to your motorhome.

# Requirements for Safe Energy Use

Since the appliances and entertainment devices installed in your motorhome require portions of the propane and electrical system for proper operation, follow all safety-related messages concerning safe propane and electrical system use.

## Propane Requirements

In order to function properly, gas appliances will require a safe and reliable source of propane gas (LP). Your motorhome is furnished with a propane system that is designed to deliver an ample supply of propane for the water heater, furnace, and all factory-installed gas-fired appliances.

Propane gas pressures are factory set to 11 inches of water column. Do not adjust or bypass the gas regulator or modify any component of the propane system. If you experience problems with your gas appliances or any propane system component, promptly have a qualified propane service technician inspect the propane system make all necessary repairs.

## Propane Safety

Familiarize yourself and follow all propane gas safety procedures listed within this document, the TMC Propane Gas System Guide, your Owner's Manual, and the documentation associated with all gas and electrical appliances of your motorhome.

### **⚠ DANGER**

#### **IF YOU SMELL PROPANE GAS**

- 1. Extinguish any open flames and all smoking materials.**
  - 2. Shut off the propane supply at the container valve(s) or propane supply connection.**
  - 3. Do not touch electrical switches.**
  - 4. Open doors and other ventilating openings.**
  - 5. Leave the area until the odor clears.**
  - 6. Have the propane system checked and leakage source corrected before using again.**
- Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.**

### **⚠ DANGER**

**Turn OFF all pilot lights, appliances, and their igniters (see operating instructions) while the motorhome is traveling or in motion, and before refueling the motorhome's fuel tanks and/or propane containers.**

**Can cause ignition of flammable vapors, which can lead to a fire or explosion and result in death or serious injury.**

## **⚠ CAUTION**

**Make sure the propane/carbon monoxide (LP/CO) detector and alarm is always kept in good working order. Test this device regularly and immediately replace if it is not functioning properly. The LP/CO detector operates on house 12 volts DC and is only operational when the main battery switch is ON.**

NOTE: For information regarding the safe operation of the propane system and its components, refer to the Propane System Guide, available in the Owner's Resource section of the TMC website:

[www.thormotorcoach.com](http://www.thormotorcoach.com)

## Electrical Requirements

Most, if not all of the devices described in this guide require electricity for proper operation. Control circuits and igniters of gas appliances require 12 volts DC, while entertainment components generally require 120 volts AC. For safe and reliable operation, your motorhome must be able to supply electrical energy to your appliances and entertainment devices.

For 12 volt DC power, the main battery switch must be ON. Operating the generator or being connected to a shore power source will supply 120 volts AC as needed.

## **NOTICE**

**The electrical system of the motorhome must be in good working condition; being able to supply both 12 volts DC and 120 volts AC, in order to operate the appliances and entertainment devices installed in your motorhome.**

## **NOTICE**

**It is possible to overload the electrical system if too many electrical appliances and entertainment devices are operating at the same time, particularly if the electrical power is being supplied only by the generator. Be familiar with the power demand (in watts) of the devices being operated and do not exceed the power capacity (in watts) of the generator.**

NOTE: For information regarding the safe operation of the electrical system and its components, refer to the TMC Electrical System Guide, available in the Owner's Resource section of the TMC website:

[www.thormotorcoach.com](http://www.thormotorcoach.com)

## Electrical Safety

Familiarize yourself and follow all electrical system safety procedures listed within this document, the TMC Electrical System Guide, your Owner's Manual, and the documentation associated with all gas and electrical appliances of your motorhome.

### **⚠ DANGER**

Use extreme caution when using metal tools near electrical system terminals, connections, and components. Short circuits can occur when metal tools bridge between electrical terminals of opposite polarity, causing sparks, possible equipment damage, potential of fire, explosion, bodily injury and/or electrocution.

### **⚠ WARNING**

Whenever electrical system maintenance is required and before working on the electrical system of the motorhome:

- Turn OFF the main battery switch
- Disconnect the shore line power cord
- Turn OFF the generator
- Disable the automatic generator start functionality
- Disconnect the negative 12 VDC auxiliary (house) battery terminal(s)
- Attach an electrical lockout device to the electrical service panel

Before disconnecting your house and/or chassis batteries, always make sure the main battery switch is turned OFF, and the inverter/charger (if so equipped) is turned OFF.

### **⚠ CAUTION**

Safety precautions must always be observed when using any electrical device or working with electrical wires and connections. Careless handling of electrical components can be fatal.

- Never touch or use electrical components or appliances while feet are bare, while hands are wet, or while standing in water or on wet ground.
- Always remove jewelry and wear protective clothing and eye covering.
- Avoid creating sparks, which could ignite nearby flammable materials.

# Kitchen and Appliances

## Introduction

One of the first things you will notice when stepping into a roomy Thor Motor Coach motorhome is its excellent appointments of appliances and entertainment systems. Being able to take all the conveniences of home with you while experiencing unique places and events is what makes motorhome travel so compelling, enjoyable, and relaxing. Whether you enjoy your morning coffee brewed over an open campfire, prepared with your favorite electric coffee maker, or warmed with a microwave oven, your TMC motorhome is well equipped for the task and 'Made to Fit' your traveling lifestyle.

Within this guide is important safety and operational information that will allow you to maximize the features and conveniences of the devices that truly make your TMC motorhome, your 'home on wheels.'

## Kitchen Made to Travel

As in your own home, the kitchen of your TMC motorhome is often the central location for many family activities. The appliances of your motorhome have been carefully selected to provide you with maximized food preparation conveniences, while 'right-sizing' the appliances to proportionally fit the floorplan of your particular motorhome. Several TMC floorplans take kitchen conveniences a step further by providing an additional outdoor food preparation area, which enhances out-of-doors family and other activities.



TMC motorhomes feature home-like kitchen appointments

**⚠ DANGER**

**Do not store combustible materials in this area (kitchen and cabinets). Failure to comply could result in fire or personal injury.**

**⚠ CAUTION**

**Be cautious when opening cabinets after travel. Contents may have shifted and could inadvertently fall out.**



Your Thor motorhome is well appointed with modern, convenient appliances

## Cabinets

Not only is your mobile kitchen well appointed with appliances, it is well equipped with generous cabinet storage for food, cooking utensils, cleaning supplies, and portable appliances. Some cabinets feature pull-out storage trays and shelf dividers. All have door catches that stay

## KITCHEN AND APPLIANCES

closed while you're underway. As a safety precaution, cabinet contents can shift during travel. Please ensure that all cabinet doors are closed and latched before traveling to prevent the contents from falling out, causing possible injury or damage.

Drawers are designed to ensure that they do not open inadvertently during travel. To open the drawers, pull out until catch releases. Some cabinets have a wire-frame or wooden pull-out pantry. To extend this pantry, remove the travel lock pin at the bottom track and pull the pantry rack outward. To prepare for travel, push the pantry rack in and reinsert the travel lock pin.



Slide-out pantry rack

**NOTE:** For secure and safe travel, ensure all kitchen cabinet doors are closed and latched to prevent contents from falling out during travel.

## Countertops

Your mobile kitchen is designed with countertops that provide durable food preparation surfaces. Countertops are made of laminate or solid-surface materials similar to those found in your home. Both surface types provide easy-care and low maintenance. Some kitchen floorplans are supplied with additional folding countertops, which further increases food preparation surface area, while conveniently stowing away when not needed.

### RANGE AND SINK COVERS

## NOTICE

**To clean the countertops of your motorhome:**

**A simple wipe with soapy water or disinfectant spray is usually all that is needed to keep the surface clean and looking new.**

**Although the materials are durable, they can be damaged with sharp and/or hot objects. Use cutting boards for slicing and dicing and protective heat pads for hot pots and pans.**



Thor motorhomes are well appointed with spacious and durable countertops

For your food preparation convenience, the kitchen sink may be equipped with a solid cover, made of the same material as the countertop. Additionally, several range models are supplied with a range cover that provides additional counter space when needed.

When opened, the range cover acts as a grease and splash guard. To raise the range cover, lift and push back until it snaps into place. To return the cover to its counter flush position, lift straight up to disengage the holding mechanism, and return it to the original position.



Flip-up range covers provide additional countertop space



## Kitchen Sink and Faucet

The stainless steel kitchen sink installed in your motorhome is much like the one in your home. It may be a single or dual-bowl design and equipped with a sink cover board which, when in place, increases countertop space. Only waste water should be disposed of down the kitchen drain. Be sure to always use the catch basket on the drain. Your motorhome kitchen sink drain **DOES NOT** have a garbage disposal unit. Never put grease, food, or other solids or semi-solids down the drains of your motorhome because you may clog the drain and/or waste water holding tank.

The faucet and sinks installed in your motorhome operate just like those in your home. As long as there is water system pressure, provided by the on-demand pump or city source, hot and cold water is conveniently available for washing and food preparation.

To operate the faucet, rotate the hot and cold handles for desired water flow rate. To operate the sprayer, pull out on the head of the faucet. Press the button on top to release the water. To reinsert the hose, gently guide it back to the original position.



Residential-quality kitchen fixtures

### NOTICE

**Only waste water should be disposed of down the drain. Always use the sink drain strainer to capture food and other particles. Never put grease, food, or other liquid or solid materials down the drain because you may plug the drain pipes and holding tank. Your motorhome's kitchen sink is not equipped from the factory with a garbage disposal.**

NOTE: If hot water is desired, the hot water heater must be on and allowed adequate time to heat the water. For water system details, refer the TMC Water System Guide.

## Exterior Kitchen Unit (optional)

### ⚠ WARNING

**When using the outdoor kitchen and cooking area:**

- **The vehicle must be level and stabilized.**
- **Do not violate manufacturers' instructions on required clearances for cooking appliances during use.**
- **Do not store cooking appliances until cool to the touch.**

**Can lead to a fire and explosion and result in death or serious injury.**



Optional exterior kitchen

NOTE: As with the interior kitchen sink, do not put solid particles down the drain of the exterior kitchen sink. Solid particles could clog the drain pipes and the waste water holding tank.

When equipped, the exterior kitchen unit provides a convenient outdoor food preparation and clean-up station. The outside kitchen unit is accessed by an exterior compartment door, usually located at the rear, curb-side of the motorhome. Compared model-to-model, the kitchen unit may contain different features, but all will have a sink, with hot and cold running water, a refrigerator, and a GFCI 120 volts alternating current (AC) receptacle. Also located along the right-side rear, some motorhome models provide a convenient liquid petroleum (LP) gas connection for a portable grill or other gas appliance.

Use caution whenever a LP gas appliance is connected and in-use. Inspect the gas supply hose for any cracks or damage. Do not use if damaged in any way. Inspect the burners, they could have shifted out-of-place during transport. Keep the appliance well away from the side of the motorhome or other flammable materials. Always turn OFF the gas supply when appliance is not in use. Instruct children to stay clear of hot devices and allow adequate time to cool before stowing away any cooking device or appliance.

## Cooktops and Ovens

### GENERAL SAFETY INSTRUCTIONS FOR PROPANE AND GAS-BURNER APPLIANCES

#### Propane Gas Use

Most RV cooktops, ranges, and refrigerators use propane (LP) gas or a combination of gas/electric to operate. Some appliances may have electronic gas ignition, while others may require a pilot light to be lit before operating.

### **⚠ DANGER**

**PROPANE GAS IS HIGHLY VOLATILE AND EXTREMELY EXPLOSIVE. DO NOT USE MATCHES OR A FLAME TO TEST FOR LEAKS. USE ONLY APPROVED PROPANE GAS LEAK TESTING SOLUTIONS FOR LEAK DETECTION.**

**Unapproved solutions can damage copper tubing and brass fittings. Never attempt to adjust propane gas regulators. Only qualified personnel should perform any maintenance or repair to the propane gas system.**

### **⚠ DANGER**

**DO NOT USE GAS APPLIANCES FOR COMFORT HEATING. CAN LEAD TO CARBON MONOXIDE POISONING, WHICH CAN LEAD TO DEATH OR SERIOUS INJURY.**

### **⚠ DANGER**

**PREVENT ANY FLAMMABLE MATERIALS, SUCH AS CLOTHING, PAPER OR CLOTH TOWELS, CURTAINS OR SHADES, ETC., FROM BECOMING CLOSE TO OPEN FLAME OR HOT SURFACES.**



**⚠ WARNING**

Follow all safety instructions when using LP Gas appliances and the LP Gas system of your motorhome. The risk of fire and/or explosion and bodily injury exists with improper use of LP gas or any other flammable substances.

**⚠ WARNING**

All control knobs must be turned to OFF when not in use. Fire and/or burning hazard may occur if a burner is accidentally left ON.

**DO NOT** operate range or cooktop if it is damaged or not working properly.

In case of emergency or gas detection, know where the main LP gas shutoff valve is located and know how to **TURN OFF** gas supply.

If any burner should extinguish (after initial lighting or due to accidental blow-out), turn all burner knobs to OFF and **WAIT 5 MINUTES** before attempting to re-light burner.

**DO NOT** touch top burners, burner grates, or other areas near top burners during and after use. Do not let clothing or other flammable materials contact top burners or areas near top burners until they have had sufficient time to cool.

Be sure that glass cooking utensils are safe for use on the cooktop. Only certain kinds of glass utensils are suitable for surface or top burner use without breaking due to the sudden changes in temperature.

Never leave top burners unattended. A boil-over could result and cause smoking and greasy spillovers that could ignite.

Turn pan handles inward, but not over other top burners. This reduces the chance of burns due to bumping the pan.

**DO NOT** leave children alone or unattended in area where range or cooktop is in use. Never allow anyone to sit, stand, or climb on any part of the range cooktop. They could be burned or injured.

**DO NOT** heat unopened containers. They could explode. The hot contents may cause burns and container particles may cause injury.

Replace range cover only after burners and grate have sufficiently cooled.

**DO NOT** operate burners with control knob set to the LITE position. Damage to the ignition module and burner electrodes may result.

Top burner flame size should be adjusted so it **DOES NOT** extend beyond the edge of the cooking utensil.

## NOTICE

Become familiar with all safety-related warnings and instructions whenever a propane appliance or device is in use. Routinely, check for gas leaks. If gas is ever detected, either by smell or by an alarm, know the safety and evacuation procedures.

Any gas leaks have the potential of causing explosion or fire, resulting in severe injury or death. Always have gas leaks repaired immediately by a qualified and certified technician.

Follow all propane-related warning labels affixed throughout your motorhome and included in the manufacturer's owner's manual for each appliance. For further information on the Propane (LP) Gas System of your motorhome, please refer the Propane Systems Guide, available on the Thor Motor Coach website.

### Gas Range and Oven Combination

Similar to the illustration to the right, your motorhome may be equipped with a two or three-burner range and oven combination. This unit requires a pilot light to be lit in order to operate the oven. The oven is designed this way in order to reduce the possibility of unintended ignition.

#### TO LIGHT THE OVEN PILOT

- Ensure that the LP gas supply is ON at the LP tank.
- Turn the oven control knob to the PILOT position and push IN.
- Light the pilot with a lighter.
- Hold in the knob for at least 30 seconds until the pilot flame is well established.

#### THE PILOT WILL NOT COME ON

- Check to determine if the main gas valve is turned ON.
- Is there LP gas in the tank?
- Check for blockage of the orifice, pilot assembly or pilot line.
- Check for kinks in the pilot gas line.

#### PILOT WILL NOT STAY ON

- Hold oven knob, in the pilot position, for up to 30 seconds.
- Check gas supply; ensure the main valve is ON and there is LP in the tank.
- Confirm that thermocouple is fully inserted into the thermocouple holder.
- Pilot flame out of position; pilot flame is not engulfing thermocouple. Pilot assembly needs to be adjusted so that pilot flame is engulfing thermocouple.



Typical 3-Burner LP Gas Range and Oven

NOTE: The pilot gas line will remain open as long as the pilot is lit and the thermocouple senses flame. If the pilot goes out, the magnet will drop out and shut off gas flow to the pilot.

## OVEN OPERATION

- After the pilot is lit, rotate the oven control knob counter-clockwise to the desired temperature setting or to **BROIL**. The oven will pre-heat in approximately 15 minutes. For best results, always allow adequate time for the oven to come to temperature.
- To extinguish the oven burner, rotate the oven control knob clockwise to **PILOT/PUSH/HOLD** position. The oven burner will extinguish, but the pilot will remain lit.

## USING THE BROILER

- Ensure the pilot is lit.
- Push and rotate the oven control knob to the **BROIL** position.
- Center the cookpan under the broiler flame. Move and turn food frequently for even browning and cooking.
- When cooking is complete, rotate the oven control knob clockwise to **PILOT/PUSH/HOLD** position.
- For complete oven shut-down push in the oven control knob and rotate clockwise to the **OFF** position. Pilot should extinguish. For safety, visually check to confirm that the pilot did, in fact, extinguish.

## LIGHTING THE TOP BURNERS MANUALLY

1. All burner controls operate counter-clockwise and must be pressed inward to turn **ON** or **LITE** position. Do not attempt to light more than one burner at a time.
2. Immediately light the burner by holding a lit match or hand-held spark igniter designed for this purpose, near the burner ports.
3. To extinguish the top burner flame, turn the appropriate burner knob counterclockwise to **OFF**.



Gas burners

## LIGHTING TOP BURNERS WITH SPARK IGNITERS

1. Turn the appropriate burner knob counterclockwise to **ON** or **LITE**. Do not attempt to light more than one burner at a time.
2. Turn the **SPARK** knob clockwise one “click.” If the burner fails to light, continue turning the **SPARK** knob clockwise until the burner ignites.
3. To extinguish the top burner flame, turn the appropriate burner knob clockwise to **OFF**.

**NOTE:** Cooktops and ovens are a source of heat. On hot days, heat from the range and/or oven may cause the cabin temperature to rise to uncomfortable levels.

## LIGHTING TOP BURNERS WITH ELECTRONIC IGNITION

1. Turn the appropriate burner knob counterclockwise to **ON** or **LITE**. This will automatically activate the ignition system, and all burners will begin to spark repeatedly. This is the “clicking” sound you will hear.
2. The burner will light within five seconds. Once the burner is lit, turn the knob counterclockwise to the desired setting.
3. To extinguish the top burner flame, turn the appropriate burner knob clockwise to **OFF**.
4. If 12 volts DC power is not available to the ignition module for any reason, top burners may be lit manually (see manual lighting instructions above).

## Gas Cooktops

The kitchen of your motorhome may be equipped with a 2 or 3-burner gas cooktop (similar to the illustration here), and instead of a gas oven, your kitchen may be equipped with either a microwave or a combination microwave/convection oven (see microwave oven section).

If so equipped, your gas cooktop operates similarly to the gas range burners described previously. Please note all LP gas-related safety instructions when using this or any gas appliance.



Typical 2-3 burner gas cooktop

### TO OPERATE THE GAS BURNERS

- Ensure that the LP gas supply valve at the tank is ON.
- Push in the burner control knob and rotate to the LITE position. The electronic igniter should begin “clicking.”
- After burner ignites, rotate knob to adjust flame to the desired level.

### TO TURN OFF GAS BURNER

- Rotate burner knob to the OFF position.
- Before traveling, turn OFF the LP gas supply valve at the tank.

NOTE: For complete operating instructions and maintenance details, please refer to the manufacturer's owner's manual, included with your TMC Owner's Packet.

## Induction Cooktops

### **⚠ CAUTION**

#### **IMPORTANT INDUCTION COOKTOP SAFETY INFORMATION:**

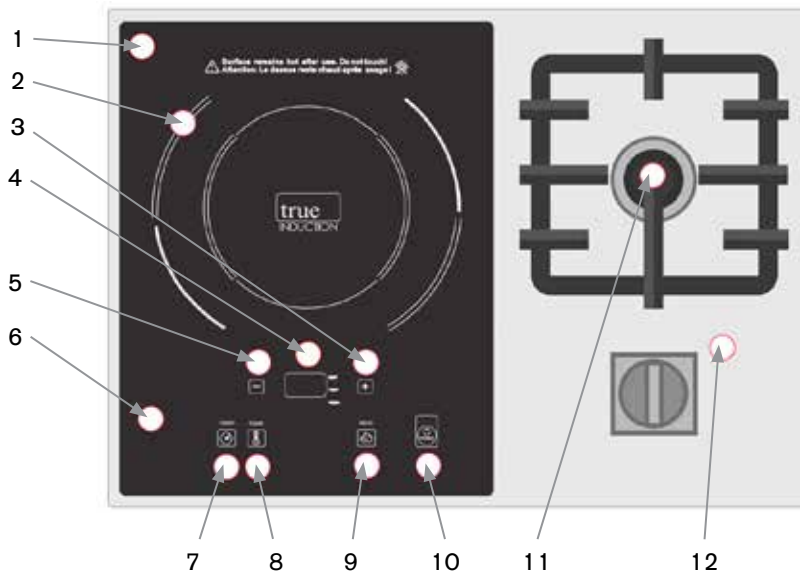
- **When the unit is on, do not touch outside the control panel, as the surface may contain residual heat.**
- **Do not cook on a broken or damaged cooktop as spillovers may penetrate surface and create a risk of electric shock.**
- **Allow sufficient space around cooking area when in use.**
- **Magnetic field caution: Items that could be affected are Radios, televisions, credit cards, cassette tapes, etc.**
- **Do not use with empty pans/pots.**
- **Do not place metal objects such as knives, forks, spoons, lids, cans or aluminum foil on cooktop.**
- **The surface will remain hot for a time after use.**
- **Do not clean surface while still hot.**

Your motorhome may be equipped with an induction cooktop or a combination induction/gas cooktop. Combination induction/gas cooktops may feature one or two gas burners with one induction element.

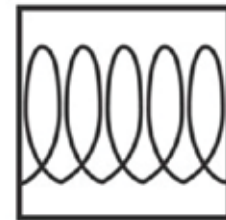
The gas burners of the induction cooktop have electronic igniters, but operate similarly to the description in the previous section. Please read and follow all safety instructions associated with LP gas, gas appliances, and gas-burning cooktops listed in the manufacturer's owner's manual and elsewhere in this guide.



Typical Induction cooktop. Some models are dual-burner, while others feature a single induction with a single gas burner.



NOTE: Look for this symbol when shopping for induction-safe cookware



Induction Cooktop

- |                         |                     |
|-------------------------|---------------------|
| 1. Ceramic Glass        | 7. Time Control Key |
| 2. Cooking Zone         | 8. Temperature Key  |
| 3. Raise Power Key      | 9. Heat Key         |
| 4. Power Option Display | 10. Power Button    |
| 5. Lower Power Key      | 11. Gas Burner      |
| 6. Control Panel        | 12. Control Knob    |

INDUCTION COOKING SURFACE

- The power switch will light and the unit will sound to indicate it is ON.
- The device will remain in **STANDBY** mode, awaiting user direction.
- Place ferromagnetic cookware (with water, cooking oil, or food already inside) on the center of the glass ceramic cooking area.
- Press **Power Button** on the control panel, this will turn the cooktop ON. The power display will blink and sound another indicator. Then press the **HEAT** button.
- The pre-set power level “5” is the default selection as the device turns ON.

## KITCHEN AND APPLIANCES

- Using the +/- keys, change the power setting to the desired level.
- After the unit is turned ON, you can opt to use the TEMP setting. To do this, press the function key labeled TEMP one time. The pre-set temperature is 270° F.
- Using the +/- keys, you can change the temperature setting at any time. Settings range from 150-450° F.

### USING THE TIMER FUNCTION

- After selecting the HEAT or TEMP mode, press the TIMER button once. The display will show the number "0". Using the +/- keys, you can increase operating time by 5 minute intervals (up to 150 minutes max) and reduce time by 1 minute intervals.
- The display will count down the duration in minutes. Once the time is up, the cooktop emits an audible sound and automatically goes into standby mode. To continue cooking, press the POWER button to restart.
- During timer operation, you can change the timer duration at any time with the +/- keys. The cooktop's built-in memory maintains the HEAT or TEMP setting previously entered.
- You can also change the HEAT or TEMP settings without affecting the current timer setting.

### BUILT-IN SAFETY SHUT OFF

- The induction cooktop has an auto-shutoff safety feature. The cooktop will automatically turn off after 150 minutes of use (this occurs in both HEAT and TEMP modes).
- When the auto-shut off safety feature activates, the panel will display an "EE" error code and will emit an audible alert.
- In the event your food requires further cooking the unit can easily be turned back ON and re-set to the desired HEAT or TEMP mode.

### TURNING OFF THE UNIT

- When you are finished cooking, simply press the POWER button to turn OFF the unit.
- Cooking surface will remain hot for a period of time. Allow surface to cool before re-installing a cover (if supplied).

## NOTICE

**Induction cooking requires pots and pans that are made of ferrous (meaning magnetic) materials. Check your cookware's retail box for the INDUCTION symbol.**

**To tell if your current cookware is compatible with the induction technology, hold a magnet to the bottom of the pan. If your magnet sticks, then your cookware is ready to be used with the induction cooktop.**

**Optimal cookware has a flat bottom and a diameter of 4.5 - 10 inches. Round, flat-bottomed pans give the best results.**

## Microwave Oven

### **⚠ WARNING**

#### **READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE**

- Pay particular attention to “Precautions to avoid possible exposure to excessive microwave energy,” listed in the manufacturer’s literature.
- Close supervision is necessary whenever children operate this appliance.
- If materials inside the oven ignite: 1. Keep the oven door closed, 2. Turn the oven off, 3. Unplug the appliance or turn off breaker.
- Do not overcook food. Carefully attend the appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
- Do not use oven cavity for storage purposes. Do not store combustible items inside the oven.
- Remove wire twist-ties and metal clips from paper or plastic containers before placing them in the oven.
- The oven must be connected to a grounded electrical outlet.
- Some products, such as whole eggs, sealed water with oil or fat, may explode due to steam pressure build-up. Do not heat such items in this oven.
- Use the appliance only for its intended purpose. Do not use corrosive chemicals in this appliance. It is designed for food preparation only.
- Do not cover or block any vents on the oven.
- Do not use this appliance outdoors or near water.
- This appliance should be serviced only by qualified service technicians. Contact the nearest authorized service facility for inspections, repairs, or adjustments.

### **⚠ CAUTION**

**Only use microwave-safe utensils and cooking pans inside this appliance. Standard glass and ceramic can break due to uneven heating.**

**Do not use metal containers or utensils with this appliance.**

**Never use the microwave oven without the turntable ring and glass tray in place.**



Typical microwave installation

**NOTE:** Refer to the manufacturer’s owner’s guide for details with programming and setting features of your appliances.

**NOTE:** Liquids, such as coffee, tea, or water are able to become super-heated, or hotter than boiling point, without visible bubbling. This could result in very hot liquids suddenly boiling over when the container is disturbed or a spoon or other utensil is inserted into the liquid.

1. Do not overheat liquids.
2. Stir the liquid both before and halfway through heating.
3. Do not use straight-sided containers with narrow necks.
4. After heating, allow the container to stand in the microwave oven for a short time before removing the container.
5. Use extreme care when inserting a spoon or other utensil into the container.



**⚠ CAUTION**

**Tightly closed lids could explode, due to pressure build-up. Closed containers should be opened and plastic pouches or sealed containers should be pierced before cooking.**

For speed and convenience, an essential part of any modern kitchen is the inclusion of a microwave oven. The microwave oven, and in select motorhomes, a combination microwave/convection oven, equipped with your motorhome is designed to deliver speed and convenience to your food preparation activities.

All microwave and microwave/convection ovens operate on 120 volt AC power, provided by the on-board generator or shore connection. Unlike your home, where power interruptions are rare, an RV is often disconnected from 120 volts AC power sources. Therefore, features such as clocks and programmable cooking modes may reset to factory settings whenever power is interrupted and will likely need to be reset or reprogrammed whenever 120 volts AC is re-established. Some appliance models may feature battery back-up for internal memory circuits. Please refer to the manufacturer's owner's manual for complete details regarding appliance features, settings, and operations.

When used properly, microwave ovens offer safe, convenient and fast food preparation for many types of cooking activities. However, for safe, reliable service from your appliance, please follow all safety instructions and guidelines provided by the manufacturer of the appliance.

### Microwave/Convection Oven

Your motorhome's kitchen may be equipped with a microwave oven that includes convection heating. This feature adds the convenience of browning and baking to standard microwave oven functions. The oven can be used as a standard microwave, a convection oven, or a combination of both.

Some appliance models may include a grill or broil setting. Refer to the appliance manufacturer's owner's manual, included with TMC Owner's Packet, for important safety and operating information.

Follow all safety-related instructions and operating guidelines listed in the previous section and in the manufacturer's owner's manual for this appliance.



Typical combination microwave/  
convection oven

### STANDARD MICROWAVE COOKING

In microwave oven mode, your microwave/convection oven operates as you would expect any microwave oven to do; with timer, power and other useful control settings. Cooking or warming food depends on the size and shape of the food item, its beginning temperature (frozen, cool, room temperature), and the power level of the microwave oven. Adjust microwave power and time accordingly to the food being prepared.

**NOTICE**

**DO NOT use metal or utensils made of materials not approved for microwave oven use whenever the oven is used as a Microwave or as a combination of Microwave/Convection heating mode.**

**Metal pans can be used whenever the oven is operated in Convection Mode ONLY.**



## CONVECTION COOKING

Convection ovens use heated circulating air within the oven cavity to cook food. Therefore, it is important for consistent food preparation to always use a convection rack when operating the oven in convection or a combination of microwave/convection heating. This allows air to circulate around and underneath the item being cooked. A convection rack designed for your appliance should have been supplied with your oven.

**NOTE:** For consistent and even cooking, always use a convection rack to elevate the pan when using the convection heating feature of this appliance.

Since the hot air is in constant circulation, food may cook faster at a given temperature, as compared to a standard oven. Adjustments to cooking time and temperature may be required in order to obtain desired cooking results.

## MICROWAVE/CONVECTION OVEN COOKING TIPS

- Learn about your settings. Most microwave/convection ovens will allow you to cook with microwave radiation only (timed cooking), convection only (cooking with hot, circulating air, at a particular temperature), or both at the same time.
- Choose the microwave setting for things you would traditionally microwave, particularly for short periods of time. These foods might include microwave popcorn, reheated leftovers or quick steamed vegetables. When using the microwave setting, cover the food to retain moisture, and don't use any metal pans, racks or utensils.
- Choose the convection setting for baked goods or anything else that you want to have a crispy exterior, such as roast meat or vegetables. Elevate the food with a rack, so that hot air can circulate under the pan.
- Cook in a combination microwave/convection setting when you would like your food to finish especially quickly, with a well-done interior as well as a crispy exterior. The microwave rays penetrate thick foods, like whole birds, for quick cooking, while the convection currents and ambient heat give the outside a roasted texture.
- Be aware when you to cook in a convection oven that food may be done more quickly than it would in a conventional oven, even if you use the convection only setting. Use food thermometers and test foods earlier than you would expect, to avoid overcooking.

## NOTICE

**It is important that the microwave/convection oven is vented properly for optimum performance. If your oven doesn't seem to reach its set pre-heat temperature, then check to see that vents to the outside are not blocked or restricted.**

**If the vents are un-restricted, then the temperature may need to be recalibrated. Refer to the appliance owner's manual for temperature calibration instructions.**

## Kitchen Refrigerator

Your motorhome's kitchen is equipped with one of the following two types of refrigerators:

- Gas/electric (absorption type), or
- Residential (compressor type)

Absorption-type RV refrigerators use a heating element, a heat-transfer device, and a mixture of water and ammonia as a means of cooling the interior of the refrigerator. The heat source is supplied by a LP burner or an electric heating element, which is powered by 120 volts AC. Cooling is accomplished as a cycling process of the ammonia evaporating from the water, and then being re-absorbed when it condenses. There are no moving parts in an absorption refrigerator.

Compressor type refrigerators are like those found in most residential homes, therefore, they may be referred to as a 'residential-type' refrigerator. These refrigerators use an electric motor, which drives a compressor. Cooling is accomplished as the refrigerant cycles through phases of condensing and evaporating.

Most TMC motorhomes are equipped with a gas/electric RV refrigerator and may vary in size (cubic feet) depending on floorplan and available cabinet space. Select TMC motorhomes are equipped with residential-type refrigerators, meaning they operate on 120 volt AC only. Motorhomes with residential refrigerators are usually Class A diesel-powered and have on-board electrical systems designed for residential appliances.



Typical gas/electric refrigerator

### NOTICE

**Stored food items may shift during travel. Use caution when opening the refrigerator door during and after travel.**

### Residential Refrigerator Operation

Residential refrigerators operate just as the those found in your home, and no special operating instructions are required beyond power requirements and power source options. The refrigerator will need 120 volts AC to operate. Use a power source that is most appropriate for the conditions.

#### WHEN THE MOTORHOME IS IN MOTION:

- Simply ensure your motorhome's generator is operating or you are drawing 120 volts from the on-board inverter.

#### WHEN THE MOTORHOME IS PARKED:

- 120 volts AC can be supplied by the generator or shore power.



Residential refrigerator

## NOTICE

Powering a refrigerator with an inverter can draw a significant amount of energy from the house battery(ies) and should only be used for short periods of time.

NOTE: For care and maintenance instructions for your residential-type refrigerator, refer to the manufacturer's instructions included with your TMC Owner's Packet.

### Gas/Electric Refrigerator Operation

## ⚠ DANGER

**DO NOT** operate the gas/electric type refrigerator on LP while the vehicle is in motion or refueling.

Turn off the LP gas supply at the tank before and during travel.

Be sure the igniter of the refrigerator remains disabled while the motorhome is traveling or refueling.

**TO DISABLE THE IGNITER, FOLLOW EITHER OF THESE METHODS:**

1. Turn the front panel selector switch to OFF. Doing so will turn off the entire refrigerator.
2. Turn the selector switch to AUTO. With the LP gas supply valve closed at the tank, the refrigerator will operate on 120 volts AC. Ensure there is 120 volts AC available, either from the on-board generator or an on-board inverter (main battery switch must be ON).

## ⚠ WARNING

The refrigerator cooling system is under pressure. Do not try to repair or to recharge a defective cooling system. Repairs must be done by a qualified RV service technician only.

At regular intervals, make sure that the refrigerator flue, the burner, the vent areas, and the ventilation air pathway between the vents are completely free from any flammable materials or blockages.

After a period of storage, it is especially important to check these areas blockages made by insects or animals.

## ⚠ CAUTION

The refrigerator is made to operate within 3° off level side-to-side and 6° off level front-to-back. Operating the refrigerator at more than these limits can cause damage to the cooling system and create a risk of personal injury or property damage.

When parked, make sure the vehicle is level before operating the refrigerator. Off-level during travel usually does not effect refrigerator performance.

## NOTICE

**The control circuits of the refrigerator require 12 volts DC for operation. The house battery main switch must be ON in order for the refrigerator to operate; independent of the energy mode selected.**

NOTE: There is a third type of refrigerator, known as a 3-way. It differs from the standard gas/electric RV refrigerator in that it has two separate electric heating elements; a 120 volt AC and a 12 volt DC element (along with the LP burner).

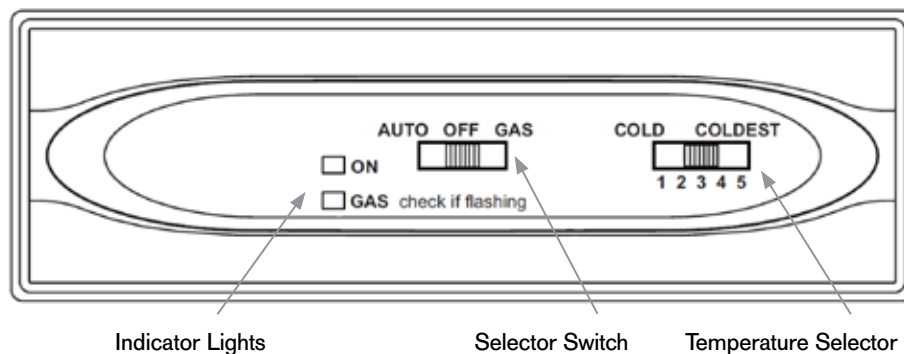
Having a 12 volt DC heating element in the refrigerator does present the advantage of operating the refrigerator on 12 volts DC while the motorhome is in motion and the LP is off. However, many installations accomplish the same advantage by operating either an absorption or electric refrigerator on 120 volts AC, supplied from an inverter.

If your motorhome is not equipped with an inverter, the contents of the refrigerator should remain safe with the refrigerator off during travel times of 4-6 hours, as long as the door of the refrigerator remains closed or access to its contents is limited.

NOTE: Evaporator-type RV refrigerators, when in electric mode, typically consume more electric power than a similarly sized compressor-type refrigerator. If your on-board supply of LP is not a concern, it is usually more energy efficient to operate the refrigerator on gas than electricity.

Described here is the basic operation for gas/electric, absorption-type RV refrigerator. Since this type of refrigerator is a gas appliance, please follow all propane (LP) gas safety-related warnings described in this publication, labels affixed to your motorhome, and written in the appliance manufacturer's owners manual, which a copy is included with your TMC Owner's Packet.

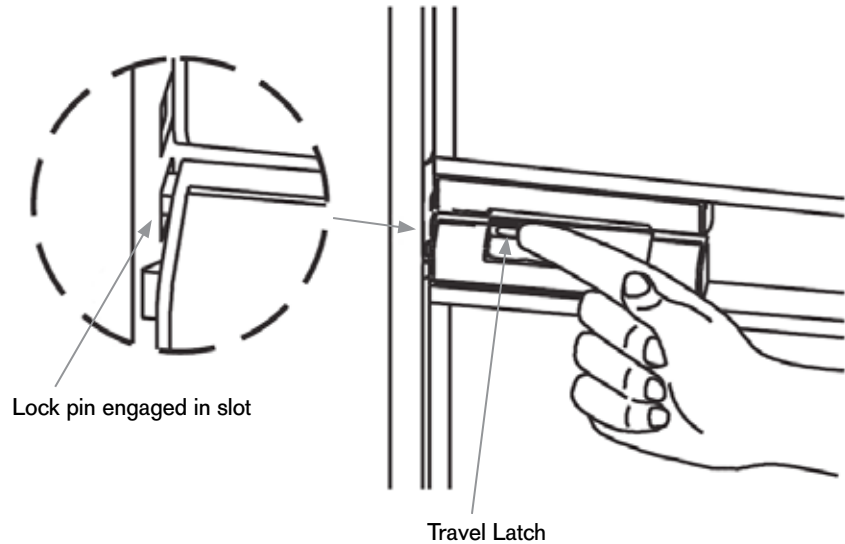
Located on the front of the refrigerator is a control panel similar to the illustration below. The INDICATOR LIGHTS show when the refrigerator is ON and if gas is present for use. The SELECTOR SWITCH allows you to choose from AUTO, OFF, or GAS operation. The TEMPERATURE SELECTOR allows you to choose the temperature setting for the refrigerator and freezer section in increments of 1-5, where 5 is the coldest setting. The temperature selection is independent of the energy source of the refrigerator (gas or electric).



Gas/electric refrigerator control panel

When traveling, engage the travel lock on the refrigerator door.

- Shut both the freezer and refrigerator doors.
- Slide the travel latch into the slot on the door frame.
- Unlatch travel latch before attempting to open refrigerator door.



#### AUTOMATIC MODE

When the refrigerator is in AUTO mode, it automatically uses the most efficient energy source that is available for operation. During operation, if a more efficient energy source becomes available, the refrigerator will automatically change energy sources.

**The energy source priority is this order:**

1. If 120 volts AC is available, the refrigerator operates on electricity.
2. If 120 volts AC is not available, the refrigerator operates on LP gas (if available).
3. If 120 volts AC and LP gas is not available, the refrigerator is inoperable.

When in AUTO mode and 120 volts AC is available, the ON indicator light illuminates. This indicates that the refrigerator is operating on 120 volts AC.

When in AUTO mode and 120 volts AC is NOT available, both the ON and GAS indicator lights illuminate, indicating that the refrigerator is operating on propane gas.

If the energy source is interrupted, the indicator lights will blink, indicating a fault code. Refer to the manufacturer's owner's manual for FAULT CODE interpretations.

#### OPERATING ON LP GAS

- Slide the SELECTOR SWITCH to the GAS position.
- When both the ON and GAS indicator lights stay illuminated, the refrigerator is operating on propane gas.
- If the energy source is interrupted, the indicator lights will flash an error code.
- For safety purposes, the gas-fired burner is made to ignite the propane gas within a specific amount of time. When starting the refrigerator for the first time, after storage, or after replacing the LP tank, the gas supply lines can have air in them. Due to air in the gas supply lines, the refrigerator may not ignite on propane gas within the specified amount of time.

**If gas ignition does not start immediately:**

- Make sure that all of the main propane gas valve is open at the tank.
- Push the selector switch to the GAS position and the refrigerator will start a 30 second trial for ignition.
- During the 30 second trial for ignition, the refrigerator controls open the gas safety valve and the igniter sparks.
- During the 30 second trial for ignition, both the ON and the GAS light illuminate.

If the ON light and the GAS light stay illuminated after 30 seconds, it indicates the gas supply lines are free of air and that the refrigerator is operating on propane gas. If you choose, you may leave the SELECTOR SWITCH on GAS, or move it to AUTO.

If after the first 30 second gas ignition attempt fails, the refrigerator control circuits close the gas safety valve and the igniter stops sparking. Both the ON and GAS indicator lights will flash about once every second.

**Repeat the gas ignition attempt:**

Slide the SELECTOR SWITCH to the OFF position, and then to the GAS position. This will initiate another 30 second gas ignition attempt. Depending on how much air is in the gas supply line, you may need to repeat the 30 second ignition attempt sequence two or three times.

If the burner does not ignite on propane after three attempts, stop and consult your TMC dealer, TMC Customer Care, or an authorized RV refrigerator service center.

**FOOD COMPARTMENT AND INITIAL START-UP**

Start up the refrigerator and let it cool for eight hours before loading with food. If the refrigerator does not start to cool down after about two hours, there is likely a fault with the refrigerator. Contact a qualified service center for troubleshooting tips or repairs.

**For the best cooling performance:**

- Let air move freely inside the entire food compartment
- Do not cover the shelving grate with plastic, paper or other materials

**To Decrease the amount of ice that collects on the cooling fins:**

- Cover all liquids and moist foods
- Let all hot foods cool before putting them in the refrigerator
- Do not open the door any longer than necessary

**Freezer compartment:**

The freezer compartment is made to keep pre-frozen food frozen and not to quick freeze food. Keep pre-frozen foods in the freezer compartment.

**ABSORPTION REFRIGERATOR OPERATING TIPS**

Since electric heating elements require a moderate-to-high amount of electric energy to operate, while operating from an inverter, the house battery can be quickly depleted. Therefore, it is usually recommended to operate an evaporator-type refrigerator with LP gas or shore-power 120 volts AC, while using 12 volts DC occasionally or during travel.

**Other tips include:**

- Since it takes more energy to cool down refrigerated contents than to maintain coolness, operate the refrigerator on 120 volts AC or LP when stocking the refrigerator.
- When operating on 12 volts DC (via the inverter), minimize opening the refrigerator door.
- An empty refrigerator is not as energy efficient as one that is full. Keep your RV refrigerator well stocked with items such as bottled water or other dense food items.

NOTE: While operating the refrigerator or other appliances on inverted power and the vehicle is in motion, monitor the charging voltage of the chassis electrical system. This is usually done by reading the voltage gauge on the dash display.

If the voltage is lower than normal, it usually means that the chassis charging system can not keep up with the electrical demand from the batteries.

You may need to turn off some electrical appliances so that battery charging voltage remains at a normal level.

**Effects of High Altitude on Propane Gas Operation**

When you operate the refrigerator on propane gas at altitudes higher than 5,500 feet above sea level, you may experience reduced cooling performance of the refrigerator. You may also experience burner outages. To avoid these possible problems, the refrigerator manufacturer recommends that you operate the refrigerator on 120 volts AC when at altitudes higher than 5,500 feet above sea level.

**Effects of Freezing Temperatures on Refrigerator Operation**

A gas absorption refrigerator is not designed to operate in freezing temperatures. If the refrigerator is not equipped for low temperature operation, and if the cooling system of the refrigerator is exposed to temperatures of 32° F. or lower for an extended period of time. The refrigerator operation may be disrupted. The refrigerator operation will resume when the cooling system of the refrigerator warms sufficiently.

If your refrigerator is equipped for low temperature operation, the refrigerator will operate in temperatures down to 0° F. Check with your TMC dealer to determine if your refrigerator has been equipped for low temperature operation.

**Care and Maintenance**

Your refrigerator is designed to give you years of trouble-free service if you do these simple checks every three to six months:

- Keep the food compartment and the freezer clean.
- Defrost the refrigerator as necessary (see manufacturer's instruction manual).
- Make sure the door seals are clean and sealing properly.
- Be aware of any cooling changes that are not due to weather conditions, motorhome leveling, or gas control changes. Unexpected cooling changes may indicate service is required.
- Make sure the gas supply is propane (LP) ONLY and not butane or a propane/butane mixture.
- Occasionally observe the appearance of the propane flame (see manufacturer's instruction manual). Abnormal flame appearance may indicate service is required.



- Make sure the air flow in the lower intake vent, which circulates through the refrigerator coils and condenser and out the upper exhaust vent, is not blocked or restricted.
- Make sure the area behind the refrigerator is clear of obstructions. Do not use the area behind the refrigerator for storage of any material, especially flammable solids, liquids, or vapors.

## NOTICE

**The plastic shelving and storage bins installed inside the refrigerator are NOT dishwasher safe. They can be damaged by high heat.**

**Only clean with warm soapy water.**

NOTE: For complete safety and operational information of your refrigerator, refer to the manufacturer's instruction manual included with your TMC Owner's Packet.

### Outside Kitchen Refrigerator (optional)

The exterior kitchen is equipped with an electric-only, compressor-type refrigerator of approximately 2-3 cubic feet in size. To operate the refrigerator, it is best to connect to shore power for 120 volts AC electric energy. It is possible to operate on generated power, but you may need to be cautious of overloading the generator's capacity by trying to use too many appliances at the same time.

The appliance manufacturer's information manuals, included with your TMC Owner's Packet, should provide power consumption data. Add the power requirements of all appliances you want to operate, then compare the total power demand of all your appliances to the power capacity of your generator. You may need to turn off some appliances in order to operate others. Refer to the TMC Electrical System Guide for additional information.

## NOTICE

**This appliance is not typically wired to an inverted 120 volts AC circuit. Therefore, it is only operational on shore power or generator power. Be cautious of what types of food you store in this refrigerator, since it may be off for significant amounts of time, food spoilage could occur.**

**Stored food items may shift during travel. Use caution when opening the outside kitchen refrigerator door after travel.**

### 3-Way Kitchen Refrigerator (if equipped)

Your TMC motorhome may be equipped with a 3-way kitchen refrigerator. A 3-way refrigerator has an additional 12 volt DC heating element. Therefore it can operate its cooling cycle on:

- LP gas
- 120 volts AC
- 12 volts DC

In all operating modes, however, the refrigerator requires 12 volts DC for control and ignition circuits.

NOTE: Inquire with your dealer to determine if your motorhome is equipped with a 3-way refrigerator. If it is, then refer to the appliance manufacturer's information manual included with your TMC Owner's Packet, or through the manufacturer's web site for all safety and operational information.



# Optional Appliances

## Dishwasher

Select TMC motorhomes may be equipped with a dishwasher as part of a completely furnished mobile kitchen. If so equipped, models and brands may vary due to manufacturers, suppliers, and individual preferences. Please refer to the manufacturer's owner's manual, included with your TMC Owner's Packet for appliance operation, care, and maintenance details.

## Clothes Washers and Dryers

Select TMC motorhomes may be equipped with a stacked clothes washer/dryer combination. If so equipped, models and brands may vary due to manufacturers, suppliers, and individual preferences. If your motorhome is not supplied with a washer/dryer combination, but is prepped (pre-wired and plumbed) for these appliances, a label, like the one below will be affixed to the closet designed for this purpose. Please refer to the manufacturer's owner's manual, included with your TMC Owner's Packet for appliance operation, care, and maintenance details.

**NOTE:** Although your motorhome may not be equipped with optional appliances, such as dishwashers, clothes washers, and clothes dryers, your particular model may be pre-plumbed and pre-wired for some, if not all of these options. If you have any questions related to optional appliances designed for your motorhome, please contact TMC Customer Care at the number listed in this document and/or in your motorhome's Owner's Manual.

### **WHEN INSTALLING CLOTHES DRYER IN THIS CLOSET**

**REFER TO APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR:**

- a) DRYER TO BE LISTED BY THE APPLIANCE MANUFACTURER AS "SUITABLE FOR INSTALLATION" IN CLOSET LOCATIONS.
- b) VENTILATION OPENINGS (FRESH AIR) TO BE SIZED PER INSTALLATION INSTRUCTIONS.
- c) EXHAUST DUCT TO BE INSTALLED AND SIZED PER INSTALLATION INSTRUCTIONS.

**NOTE: DUE TO VARIATIONS OF DRYER MANUFACTURERS, NO DRYER VENT FRAMING HAS BEEN INSTALLED. REMOVE THIS PANEL TO COMPLETE THE DRYER VENT INSTALLATION.**

DA2182

When operating appliances such as dishwashers, clothes washers, and/or clothes dryers, be mindful of the extra demand these appliances place on your on-board electric supply, water supply, and waste water storage capacity. Although the systems of your motorhome are designed to effectively handle these appliances, experience is the best teacher for determining the effect that operating these appliances will have on the systems of your motorhome.

## **NOTICE**

**Always turn OFF the air conditioner, furnace, and all electrical appliances before disconnecting the shore line power cord from the 120 volts AC power source or shutting OFF the generator. This eliminates arcing at the shore-power connection.**



Optional stacked washer/dryer installation (Select Class A models)

# Entertainment Devices

When you travel in a TMC motorhome, not all 'on the road' entertainment is provided by Mother Nature or your travel itinerary. Whether it's an un-cooperative weather pattern that forces you indoors, or you just want to relax with your favorite television program, movie, music, or video game; your motorhome will fully accommodate you and your traveling companion's entertainment wants and desires.

All TMC motorhomes, from economical Class C's to top-end Class A's are well equipped with modern large-screen televisions and sound systems. Select models offer Sirius™ satellite radio and satellite television reception. Most models are pre-wired for campsite cable hook-up, while some models offer WiFi and Bluetooth connectivity for your personal electronic devices.

All travelers, from the youngest to the well-seasoned, will find the entertainment accommodations of TMC motorhomes are 'Made to Fit' your lifestyle.



Thor motorhomes are equipped with a variety of standard and optional entertainment devices

## Televisions

TMC motorhomes are factory-equipped with modern, large-screen televisions within the main living area. Most floorplans feature a bedroom television, televisions in bunk areas, and even an optional exterior television, housed in a weather-tight compartment, for game-day or other outdoor activities.

Since the size, brands, and models of available televisions vary, it is not feasible to cover television operating procedures in this guide. Please refer to the manufacturer's owner's manual provided in your TMC Owner's Packet for television operation and care details. Specific model information may also be available on the manufacturer's website.



Living area TV (above), Bunk TV/ DVD combo units (center), and exterior entertainment system (right)



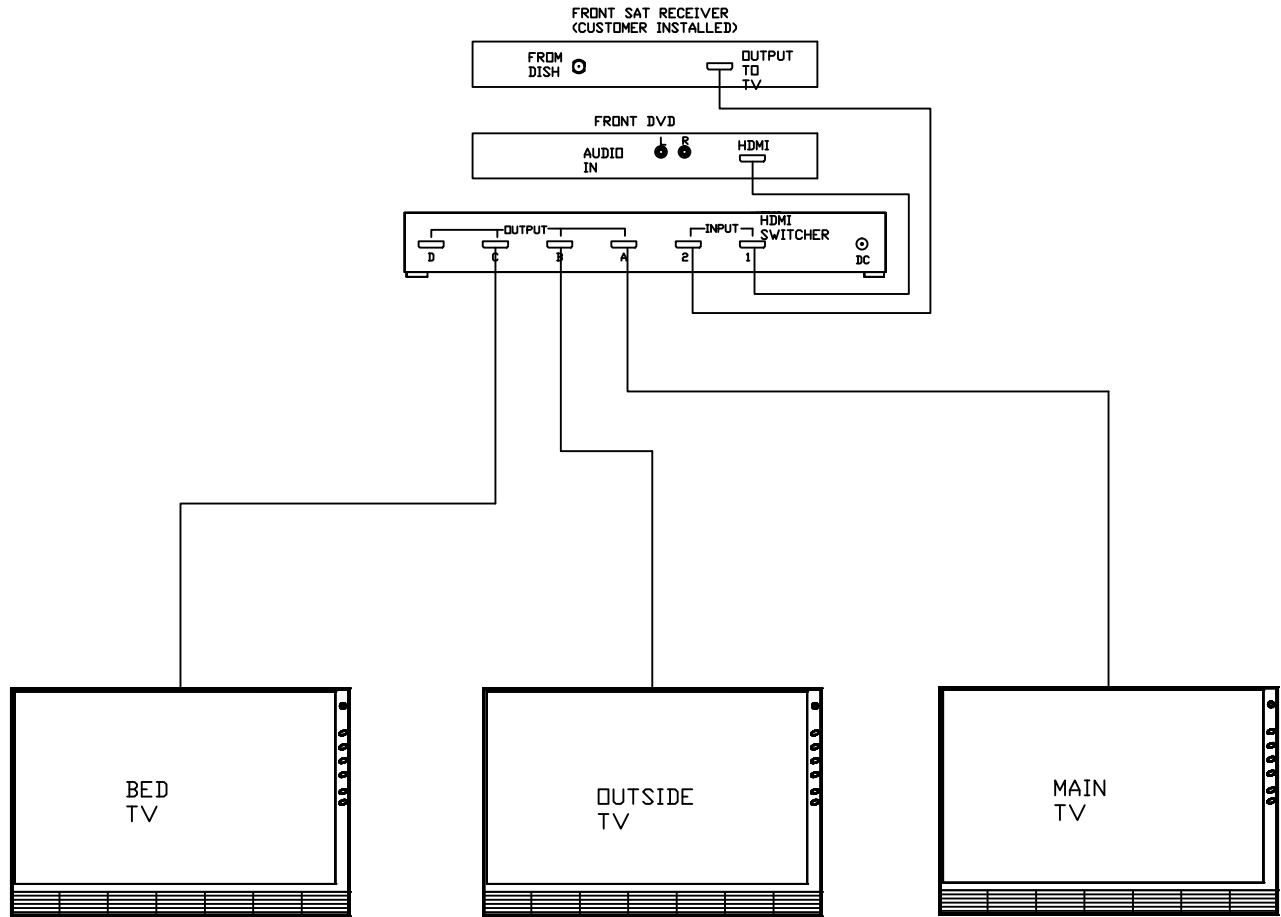
## NOTICE

**Although exterior speakers are waterproof, exterior televisions are NOT waterproof or water resistant. Care must be exercised to keep exterior televisions from water and wet weather conditions.**

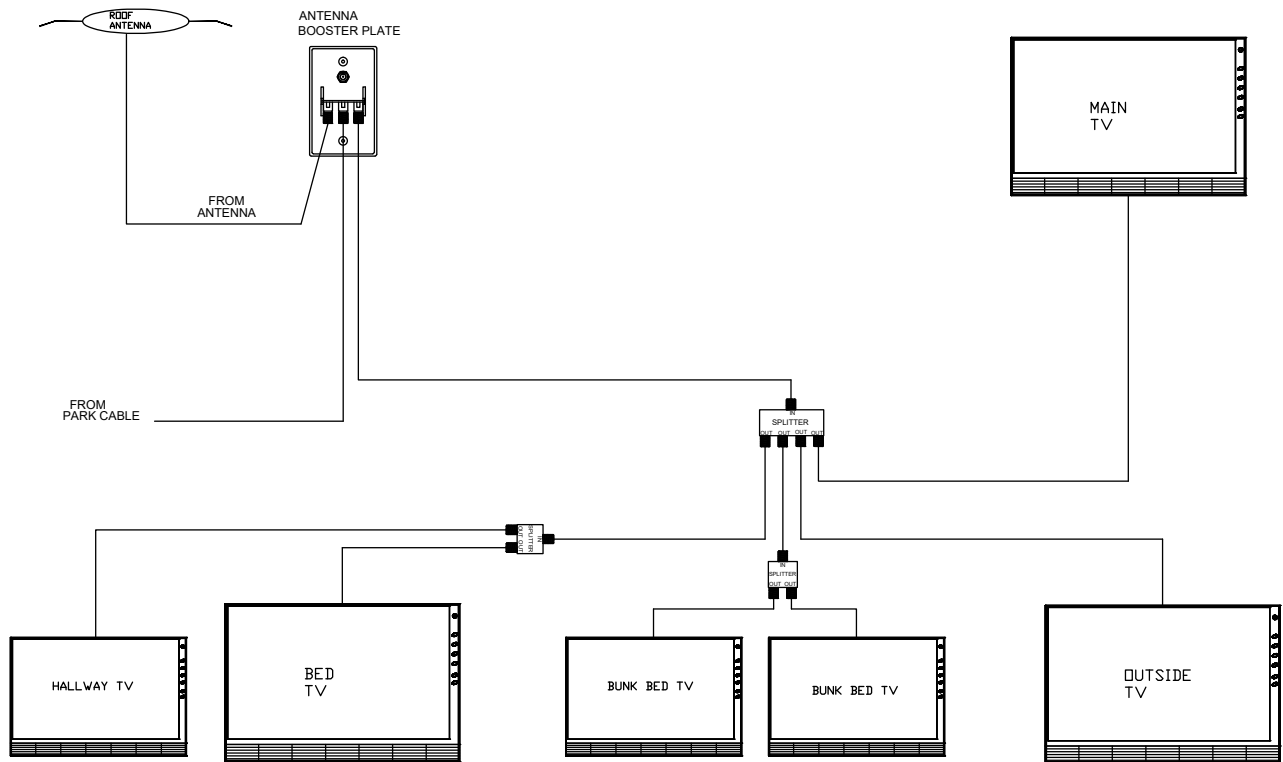
## A/V Switchboxes

Your Motorhome may be equipped with an audio/video (A/V) and cable/antenna switch box(s). These devices will allow you to select between different A/V input sources without disconnecting and re-connecting component cables. Some switchboxes may allow more multiple devices to be connected to multiple sources. Please consult the user's guide that was provided in your unit packet for detailed operating instructions.

Following are a two diagrams that illustrate A/V Switch box and cable/antenna hook-ups. Although not all motorhomes have the same features, use these diagrams as a general guide. TMC Customer Care or your TMC dealer should be able to assist with specific operational details and questions you may have.



Typical A/V Connections from external satellite TV receiver, DVD player, and HDMI Switch Box



Typical over-the-air TV antenna and cable hook-up

### Cable TV Hook-up

Your motorhome may be equipped with a cable TV hook-up, as illustrated in the photo to the right. When supplied, cable hook-ups are installed on the driver-side of the motorhome, either on the exterior wall or inside a driver-side storage compartment. The cable TV hook-up is designed to receive a standard F-type coax connector, either threaded or push-on style.

If you have any questions regarding the fitment and location of your motorhome’s cable hookup, please contact TMC Customer Care. You will need to check with the park management for cable hook-up and cable turn-on details.



Typical park-supplied cable TV hook-up located on the left side of the motorhome

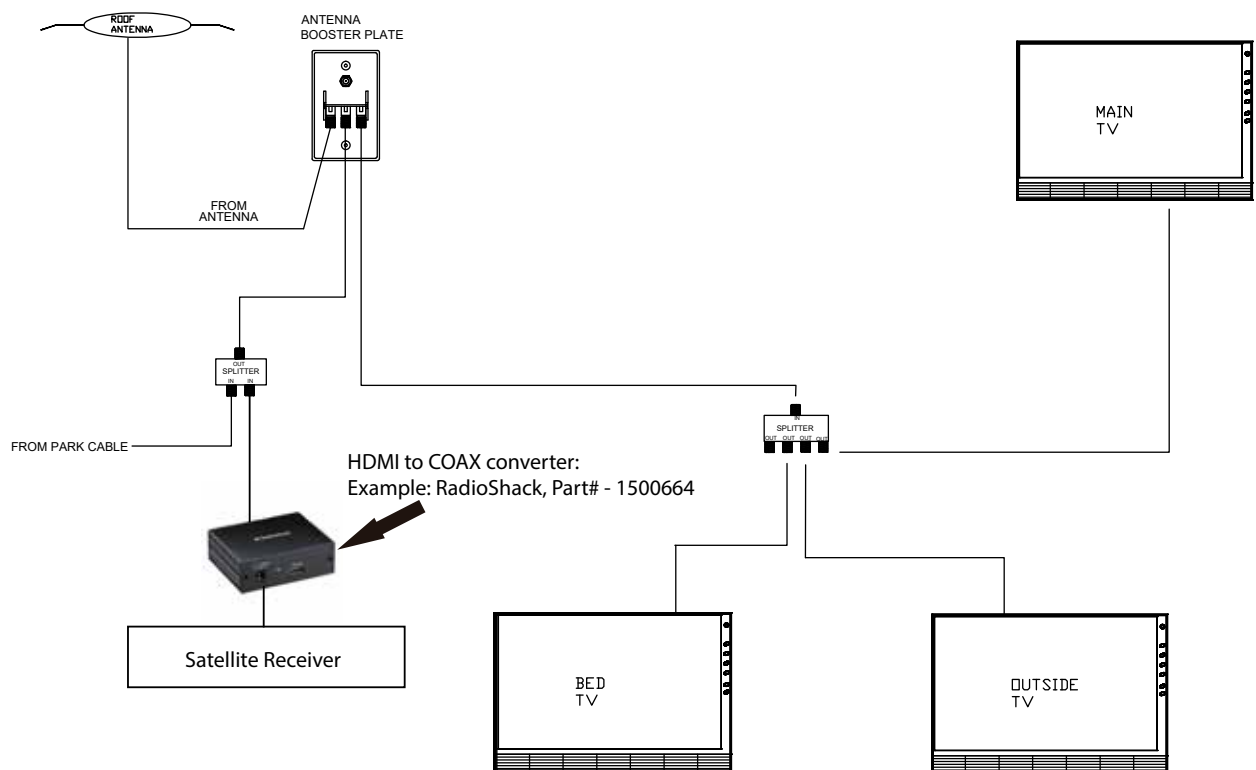
### Home Theatre System (optional on select models)

Your motorhome may be equipped with a home theater system. This system consists of a large-screen flat-panel television, with a premium sound system and a DVD/Blu-ray/CD player. It may also offer connectivity to video gaming devices and other AV equipment. Please consult the user’s guide that is provided in your TMC Owner’s Packet for a detailed system description and operating instructions.

## Satellite TV Hook-up

Several models of TMC motorhomes are pre-wired for a satellite TV antenna. Check with your selling dealer to determine if your motorhome contains this wiring. If your motorhome is pre-wired, or if you decide to add a satellite TV receiver to your entertainment system, a HDMI to COAX converter will need to be purchased in order to distribute the satellite TV signal to the TV's within your motorhome. This converter is **not** available from TMC.

The HDMI cable output from the satellite receiver will need to be connected to the HDMI input on the converter and then exit the converter via a COAX cable. The OUTPUT COAX cable from the converter will need to be connected to a 2:1 splitter, where the other input to the splitter connects to the park's COAX cable. The output from the splitter connects to the Antenna Booster Plate. See illustration below.



## DVD/Blu-Ray Player (optional on select models)

**⚠ WARNING**

**When the DVD player is part of the dash radio, the driver of the vehicle must not operate the unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction, which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.**

**Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver's seat. Check local, state and provincial laws regarding the use and limitations of this device.**

**Certain features of this unit are designed so that they are only activated when the vehicle is in PARK and the PARKING BRAKE is fully engaged. Users must not attempt to defeat or circumvent this lock-out feature.**

Your motorhome may be equipped with a DVD/Blu-ray player or multiple players. When equipped, the DVD/Blu-ray player is located in a storage cabinet in the living/dining area.

Some motorhome models feature combination TV/DVD players installed in the bedroom and/or bunk beds. For detailed operational instructions, please consult the manufacturer's owner's manual included in your TMC Owner's Packet.

## Radios

For your complete audio listening pleasure, TMC motorhomes are equipped with factory-installed, premium radios. From model-to-model, features will vary, yet, most radios offer AM/FM reception, CD player, auxiliary input for MP3 players, and USB ports. All motorhomes feature well-appointed dash-mounted radios as standard equipment, while many motorhome models are also equipped with house radio(s).

### Dash Radio

All dash radio models offer large, easy-to-read displays, with a host of modern features that will keep you entertained mile after mile. Radio models vary, depending on motorhome model and options. Some models offer premium features such as touch-screen display, navigation, satellite radio reception, DVD player, back-up and side-view camera monitoring, and cellphone connectivity.

The dash radio installed in all Thor motorhomes is powered by the 12 volt DC house battery system (instead of the 12 volt DC chassis electrical system, except for certain Sprinter chassis models). This design allows the dash radio to function as both a cockpit and house entertainment source. To power the dash radio, the main house battery must be switched ON and must be kept on whenever the dash radio is in use (even during travel), and particularly when used for back-up and side-view camera monitoring (if equipped).

With a broad variety radio models and a wide selection of standard and optional features, it would be impractical to describe all radio features and operating instructions within this document. Please refer to the radio manufacturer's owner's manual or quick-start guide included in your TMC Owner's Packet. Radio



Typical dash radio with touch-screen display

operating instructions may also be available on the manufacturer's website or [thormotorcoach.com](http://thormotorcoach.com). You may also contact TMC Customer Care if you have specific questions regarding the radio(s) equipped in your motorhome.

#### DASH RADIO WITH DVD PLAYER (SUMMIT OPTION)

Select TMC motorhomes may be equipped with a DVD player built-in to the dash radio. If equipped, the DVD player will only display while the motorhome is parked. Class A's with this option must have the parking brake set and the main power switch ON. Class C's with this option must have the ignition switch set to Accessory. Inquire with TMC Customer Care for operational details.

## NOTICE

**The dash and house radios are powered from the house 12 volt DC system (except for select Sprinter Chassis models). To operate these devices, the main house battery switch must be in the ON position.**

### House Radios

Although the dash radio is capable of being used as a house entertainment system, many TMC motorhome models are equipped with an additional house radio. Select models offer a premium house radio that features additional functions.

Usually located in the bedroom area or on a panel of the main quarters, the house radio is powered by the house 12 volt DC system. To operate, the house main battery switch must be in the ON position.

Both models allow for wired and Bluetooth wireless auxiliary audio sourcing, so that MP3 or other audio devices can be used to play audio programming throughout the house. Both radios have selectable speaker outputs, so that audio can be listened to within the motorhome and outside the motorhome through the exterior entertainment speakers (if installed). Both radios have built-in clocks with alarms. The JWM6A has a built-in CD/DVD player that can be used to play DVD's on the motorhome's television displays.

For operating instructions, please refer to the manufacturer's owner's manual included with your TMC Owner's Packet. Operating instructions are also available from the manufacturer's website and the Customer Care section of Thor Motor Coach's website:

[www.thormotorcoach.com](http://www.thormotorcoach.com)



Jensen® JWM1A and JWM6A radios



## WiFi Extenders (optional)

### Winegard Connect 2.0+

Beginning model year 2019 the Winegard® Connect™ 2.0+ is an available option on select TMC Class A motorhomes. Designed specifically for the mobile environment, the Connect™ 2.0+ is a long-range, high-performance WiFi extender that increases the range of existing WiFi hotspots. It uses state-of-the-art technology to maximize speed and range from both WiFi and 4G LTE networks to keep users connected in all but the most remote areas.

When WiFi is not available, the Winegard® Connect™ 2.0+ utilizes high-gain 4G LTE antennas to connect to a nationwide data network and provide connectivity in areas where cell coverage may be weak or not available. The unit comes with a pre-installed SIM card and an available dataplan from the manufacturer (monthly fees required). However, if you choose to use a dataplan from your preferred carrier, a SIM card from your 4G LTE carrier is required (and must be swapped for the manufacturer's card) to access 4G LTE network features. With either choice, you can stay connected.

The Connect™ 2.0+ will also accommodate WiFi calling mode in the absence of cell signal inside the RV. The unit also includes a TV/FM antenna for over-the-air (OTA) signal reception.

To become operational, this unit requires set-up procedures that may be unique to the user. Therefore, refer to the manufacturer's set-up and operational guide for user information, available from the manufacturer's website or included with your TMC Owner's Packet.

### Basic Operation

1. With a WiFi enabled device, connect to the Connect system using the factory installed SSID and password printed on the unit's manual. If the original manual is not available, the password is printed on a label attached to the inside of the SIM access panel (located on the base of the rooftop unit).
2. After connected, open your web browser and type **10.11.12.1** and press **ENTER**. This will open the main log-in screen.
3. Type **admin** in both the Username **AND** Password fields. Click the **CONTINUE** button.



Winegard® Connect™ 2.0+ WiFi and 4G LTE extender

#### Description

Designed specifically for the mobile environment, the Connect™ 2.0+ is a long-range, high-performance WiFi extender that increases the range of existing WiFi hotspots from up to 1 mile away. It uses state-of-the-art technology to maximize speed and range from both WiFi and 4G LTE networks to keep users connected in all but the most remote areas.

4. On the main Status screen, click on either the **4G/LTE** or **WiFi** option followed by clicking the **SELECT** button. If the WiFi option was selected, next press the **SCAN FOR WIFI** button.
5. A scan will take place and list will display of all of the access points that can be detected. Notice the **Security Type** and **Signal Level** and select an available network.
6. Enter the correct password for the chosen network (if required). When the main status page shows connected to that network, you may now use the internet.
7. If selecting the **4G/LTE** option be sure you have purchased data, otherwise you will be unable to connect to the Nationwide Winegard Network.\*
8. On the main Status page, click on the **DATA**



**PLAN** button. To set-up an account or to purchase more data, click on the link in the **SUBSCRIPTION** field.

9. Either click on the **CREATE ACCOUNT** button or Sign-in (if you have previously created an account).
10. Fill out the Account Registration completely and then click the **SAVE** button.
11. Click on one of the available Data Plans and click the **CONTINUE** button.
12. Fill-in the payment information and click the **ORDER NOW** button. This will generate an email with an order number sent to the email on-file. The Connect system will be ready immediately following the Data Plan purchase.

\* Each Connect system comes preloaded with 300 MB of data, and a Winegard SIM card. You will be able to initially connect via Winegard's 4G to set-up an account and buy more data. If you would prefer to use a different 4G/LTE network, the installed SIM card will need to be swapped for a SIM card from your network provider.

For item details and operating instructions, please refer to the manufacturer's owner's manuals included with your TMC Owner's Packet, or contact TMC Customer Care for specific information regarding your motorhome.

## WiFi Ranger Sky 3

Another WIFI extender offered beginning in model year 2019 is the WiFi Ranger Sky 3 extender. Available on TMC Class A gas and Class C motorhomes, this unit provides outdoor WiFi signal boosting and a secure wireless network for all computers and mobile devices that travel with you, such as:

- Laptops
- Tablets
- Smart TV's
- Gaming Devices
- Printers, and more



Band: 2.4 GHz  
 Range: Up to 2,500 Feet  
 Throughput: Up to 150Mbps  
 Standards: 802.11 B/G/N  
 Broadcasts: 1x Private/1x Public  
 Encryption: WPA2 Personal 256Bit

WiFi Ranger Sky 3 roof-mounted unit

It offers a powerful boost to otherwise weak WiFi hotspots and private WiFi networks, making connection possible from up to 1/2 mile (2,500 feet) from your motorhome.

### EASY CONNECTION

The WiFiRanger has a easy-to-follow web browser-based set-up and typical WiFi connections are only accomplished with a few commands.

## ENTERTAINMENT DEVICES

### WiFi CONNECTIVITY OPTIONS

The WiFiRanger provides network connectivity options based on:

- First Available WiFi Network; regardless of speed, security or signal quality
- First Tagged Network from a preferred network list
- Strongest Signal Network
- Fastest Tagged Network from a preferred network list
- Fastest Available Network, regardless of preferred list

### STAY ONLINE ALMOST ANYWHERE

The Sky3 provides a powerful boost to otherwise weak WiFi Hotspots and a private WiFi networks from up to 1/2 mile away.

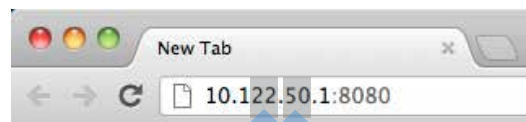
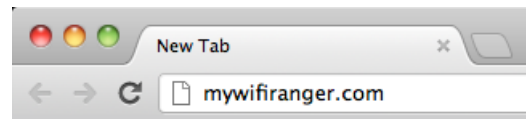
### SAFE AND RUGGED

WiFiRanger has advanced and robust security protocols to keep your data safe, even on public networks. The proprietary SafeSurf™ feature encrypts all data and is an excellent way to keep identity and credit cards safe when using otherwise unsecure networks. It is built for the harsh environment of a motorhome rooftop; and will withstand water, snow, heat and is UV-stabilized. For detailed connection and operational instructions, refer to the manufacturer's information guide included with your TMC Owner's Packet.

## Basic Operation

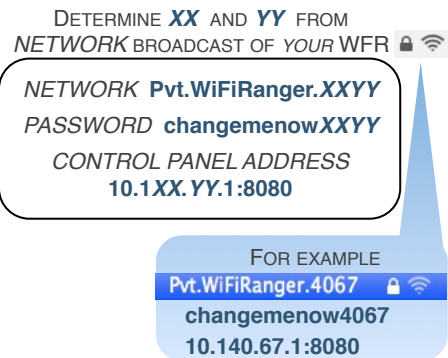
### SETTING UP ROUTER

1. **Power WiFiRanger:** Use included power supply or follow installation guide.
2. **Wait a couple minutes:** WiFiRanger automatically searches for an Internet signal.
3. **Wirelessly connect a device to Network using Password:** Also, connect via hardware for WiFiRangers with LAN ports.



WiFiRanger ID 772250

4. **Open device's web browser and go to Control Panel:** Open Internet Explorer, chrome, Firefox, Safari, etc.
5. **See if WiFiRanger is on-line or connect:** Join a WiFi network or Connect to Ethernet WAN or Cellular if not yet on-line.



For item details and operating instructions, please refer to the manufacturer's owner's manuals included with your TMC Owner's Packet, or contact TMC Customer Care for specific information regarding your motorhome.

## Other Entertainment Devices

As part of a complete entertainment system, your motorhome may come standard or have available as optional equipment the following entertainment devices:

- External entertainment center
- Sound bar
- Premium sound bar with sub-woofer
- WiFi router
- Blu-ray video player
- Over-the-air (OTA) television antenna with signal booster
- Satellite television antenna or pre-wired for antenna installation
- Satellite television/radio receiver
- Signal switchers

For item details and operating instructions, please refer to the manufacturer's owner's manuals included with your TMC Owner's Packet. Manufacturer's operating information is also available on-line through the TMC Owners Resource document service. You may also contact TMC Customer Care for specific information regarding the systems, equipment, and components installed in and on your motorhome.

This page intentionally left blank





**PO BOX 1486**  
**ELKHART, INDIANA 46515-1486**  
**877.855.2867**  
**[thormotorcoach.com](http://thormotorcoach.com)**