UNITY | MURPHY BED LOUNGE

2025 MANUAL



LEISURE
TRAVEL VANS

⚠ WARNING

Operating, servicing and maintaining a passenger vehicle, pickup truck, van, or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle.
For more information go to www.P65Warnings.ca.gov/passenger-vehicle

TABLE OF CONTENTS

1. INTRODUCTION
- Supplemental Manual....1-1
- Motorhome Information Kit....1-2
- Options and Equipment....1-2
- Service Assistance....1-2
- Reporting Safety Defects....1-3

2. GENERAL INFORMATION
- Floor Plan....2-1
- Exterior Equipment Location....2-2
- Beds and Seating....2-4
  - Murphy Bed....2-4
  - Dinette Seating....2-5
  - Dinette Foot Rests....2-6
  - Optional front table....2-6
  - TV Locations....2-7
- Firefly Multiplex System....2-8
  - Climate Control....2-8
  - Truma AquaGo water heater....2-9
  - CP Plus Remote....2-9

3. SCHEMATICS
- Electrical....4-1
  - 12 volt Electrical Reference....4-1
  - 120 Volt Electrical Reference....4-2
  - Electrical Schematic....4-3
- Plumbing....4-9
  - Water lines schematic....4-9
  - Drain line schematic....4-10
- Entertainment....4-11
- Entertainment....4-12
- Satellite Pre-wire....4-13

1. INTRODUCTION

Congratulations! Thank you for selecting a Leisure Travel Vans Motorhome.

Welcome to the exciting world of motorhome travel and camping, with all the comforts of home with you, while you travel and enjoy the outdoors.

Your motorhome has been designed and manufactured to enhance your travel and camping experience and to provide you with safe, efficient and trouble-free operation.

Before your first drive, become familiar with the operation of the vehicle chassis and all functions and operations of the motorhome. Spend adequate time with your dealer when you take delivery to learn all you can about your new motorhome.

KEEP the Motorhome Information Kit within your motorhome for readily available reference.

PASS this manual, the Chassis Operation Manual and the Motorhome Information Kit to any subsequent operator or owner.

For clarification or further details on any of the enclosed information, please contact:

Your Leisure Travel Vans Dealer or Triple E RV Customer Service at:

Email:	info@tripleerv.com
Toll Free:	877-992-9906
Telephone:	204-325-4361
Fax:	204-325-5241

SUPPLEMENTAL MANUAL

This manual was prepared to aid the operator and occupants in the operation and care of the motorhome by giving specific information about your model. There are many options to Leisure Travel Vans, so ensure that you are familiar with your motorhome's systems and equipment. All operators and occupants of the motorhome should read, understand and follow the instructions in this manual, the vehicle chassis manual & the information contained in the Motorhome Information Kit provided with your new motorhome.

Your motorhome contains a number of systems, components, equipment, and appliances manufactured by vendors that supply components for Triple E RV. These vendors are unrelated to Triple E RV.

Before operating the motorhome for the first time – even if an experienced motorhome operator – read and become familiar with all of the relevant manuals to your motorhome, components, equipment and appliances provided in the Motorhome Information Kit. Your familiarity with the detailed operation of your motorhome will assist in your safe, efficient and trouble-free motorhome operation.

MOTORHOME INFORMATION KIT

The Motorhome Information Kit includes but isn't limited to information on the components, equipment and appliances listed below (based on options selected).

- Refrigerator
- Stove top
- Furnace
- Electrical Panel
- Toilet
- Water Heater
- Water Pump
- Water Filtration
- Vent (roof)
- Fire Extinguisher
- Smoke Detector
- Thermostat
- CO Detector
- Propane Detector
- Gas Regulator
- TV Antenna
- TV/DVD
- Chassis
- Air Conditioner
- Generator
- Stabilizers/Leveling Jacks
- Rear View Monitor
- Inverter
- Entertainment System
- Safety
- Flooring and Countertops
- Electric Step
- Solar Panel
- Surge Protector
- Safe
- Awning

OPTIONS AND EQUIPMENT

Leisure Travel Vans are available in various sizes and floor plan configurations and with differing optional equipment. The equipment, accessories and components described in this manual may not apply in all respects to your motorhome. Read the material and manuals provided in the Motorhome Information Kit for detailed instructions regarding the equipment specific to your motorhome.

SERVICE ASSISTANCE

Your dealer will assist you with any additional information you need and will answer any questions you have about the operation of your motorhome. When it's time to service the vehicle, remember that your dealer knows your motorhome best and is dedicated to your satisfaction. Your dealer will provide quality maintenance and assistance during your period ownership. Triple E RV strongly recommends that you follow a regular maintenance schedule to keep your motorhome functioning at its best.

Call the following numbers if you require warranty assistance while traveling:

Triple E RV: 1-877-992-9906

Canada Sprinter Customer Service:
1-800-387-0100 www.thesprinter.ca

US Sprinter Customer Service:
1-877-762-8267 www.mbsprinterusa.com

Canada Ford Customer Service:
1-800-565-3673 www.ford.ca

US Ford Customer Service:
1-800-392-3673 www.ford.com

Emergency Roadside Service* Call:
1-877-219-3831
4287 Beltline Road, Box 198
Addison, Texas 75001

*This Emergency Roadside Service is available to owner of the motorhome during the first two years after purchase.

REPORTING SAFETY DEFECTS

If you suspect your motorhome has a safety defect that could cause injury or death, immediately contact Triple E RV. Also, contact the National Highway Traffic Safety Administration (NHTSA) in the US or Transport Canada to report your concern.

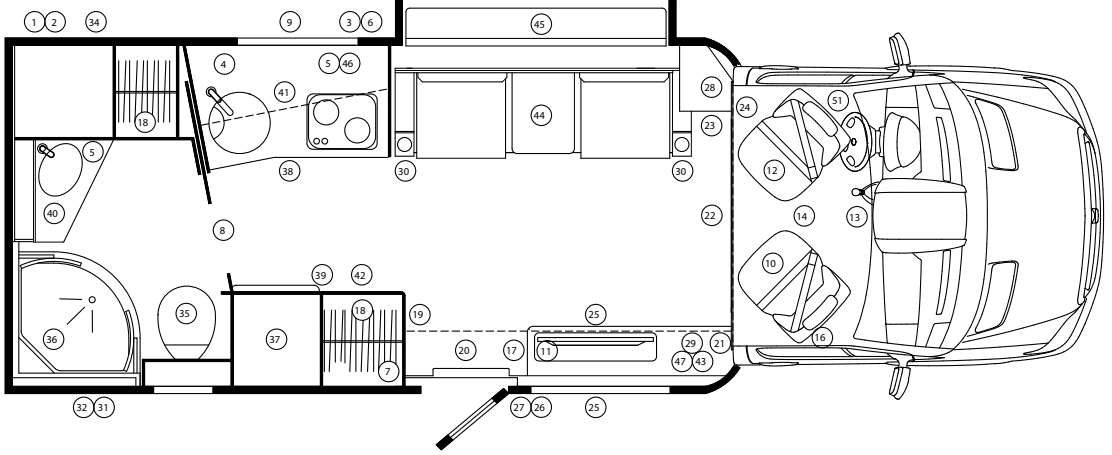
NHTSA will investigate the concern if there are a number of similar complaints. NHTSA has the authority to order a recall and repair campaign depending on the nature and severity of the problem.

You can reach the NHTSA by calling the Auto Safety Hot-line at 1-800-424-9393 (202-366-0123 in the Washington, DC, area) or by writing to NHTSA, US Department of Transportation, Washington, DC 20590. The hot-line also will provide you with additional information on motor vehicle safety.

In Canada, call 1-800-333-0510 or write to Transport Canada and Road Safety, 2780 Sheffield Road, Ottawa, Ontario K1B 3V9.

2. GENERAL INFORMATION

FLOOR PLAN



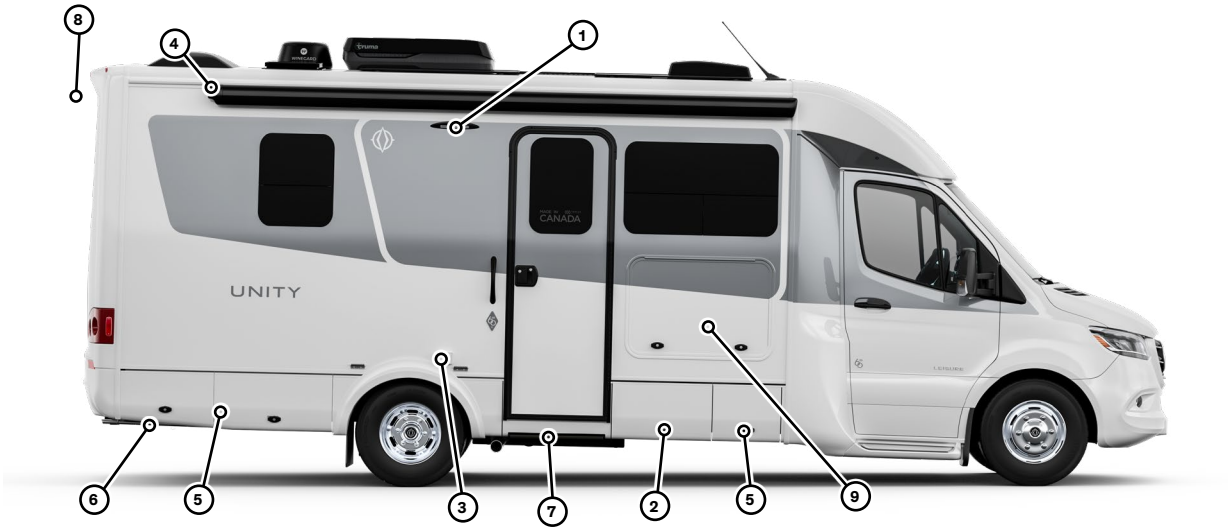
U24MBL

① Macerator Option Under Floor
② Utility Center Under Floor
③ Water Tank/Drain Under Floor
④ Water Heater/ Furnace Under Galley
⑤ Water Filter under vanity
⑥ Shore Power Plug
⑦ Surge Protector/Transfer Switch Under Wardrobe
⑧ Propane Tank Under Floor
⑨ Sewer Hose Under Floor
⑩ DC/DC Charger under Passenger Seat
⑪ Step Switch, battery heat, G12 RTC shared 5A fuse under TV
⑫ Chassis Batteries Under Captain Seat
⑬ 12 Volt Plug and USB Plug
⑭ Swivel Seats
⑮ Chassis Battery Under Cab Floor 100Amp Fuse Location
⑯ Awning Switch on Passenger Seat Pedestal
⑰ Battery Disconnect Switch on Cabinet Wall
⑱ Wardrobe
⑲ Fire Extinguisher
⑳ Water Heater Dial above Entrance Door
㉑ MultiPlex Display
㉒ Smoke Alarm on Ceiling
㉓ Propane/CMD Alarm Bed side
㉔ USB Plug On Cab Upright
㉕ TV
㉖ Coach Batteries In Compartment Under Floor (Solar panel 30A fuse behind batteries)
㉗ Inverter In Compartment Under Floor
㉘ MultiPlex G12 Panel Board behind cover
㉙ Subwoofer
㉚ USB Plug
㉛ Generator Option Under Floor
㉜ Exterior BBQ Connection Under Floor
㉝ Tank Flush Non Return Valve Below Vanity
㉞ Exterior Storage
㉟ Toilet
㊱ Shower
㊲ Fridge Below and Microwave Above
㊳ Pull Out Pantry
㊴ Thermostat Sensor on Fridge Wall
㊵ Water Pump Under Vanity
㊶ Galley
㊷ Breaker Panel
㊸ Satellite Option Prewire and Component Connection Plate Under cabinet
㊹ Dinette/Daybed
㊺ Murphy Bed
㊻ Slide Module
㊼ TV Antenna Booster/WIFI Switch in Overhead cabinet

EXTERIOR EQUIPMENT LOCATION

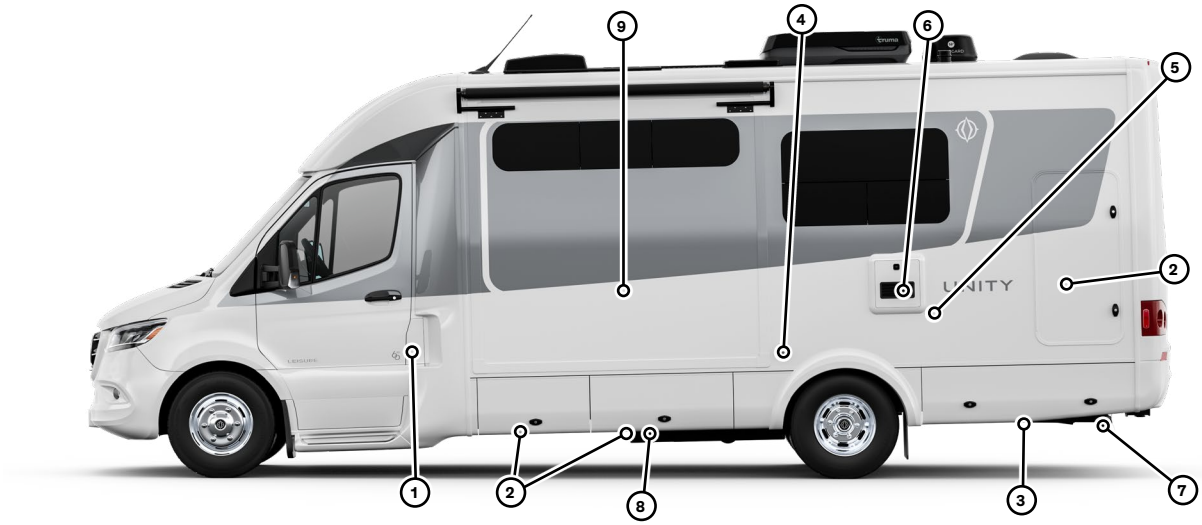
PASSENGER SIDE VIEW

1. Light
2. Inverter and Battery Compartment
3. External Receptacle
4. Awning
5. Storage Compartment
6. BBQ Hook-Up
7. Entrance Step
8. Ladder (Optional)
9. Storage/External TV Option



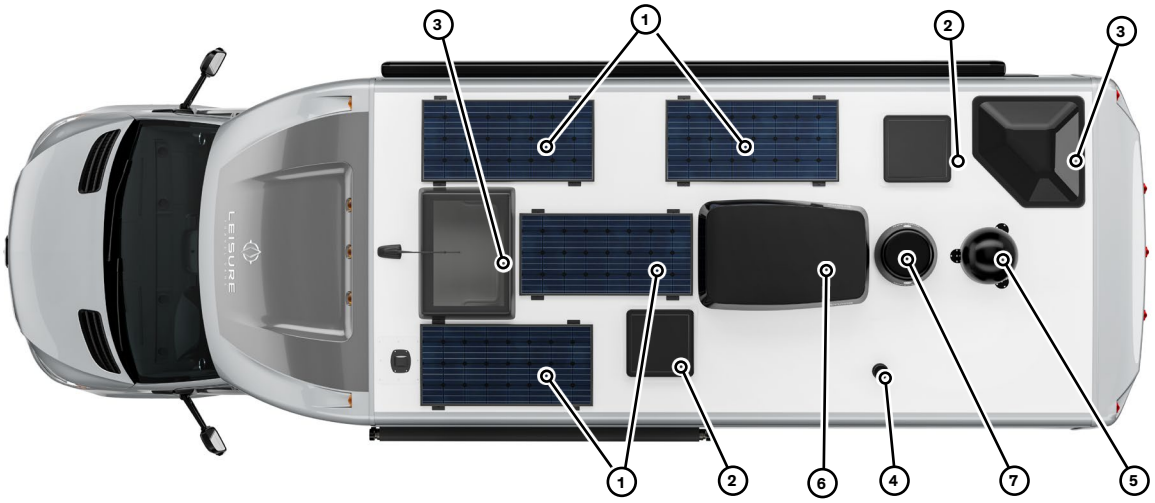
DRIVER SIDE VIEW

1. Diesel Fill
2. Storage Compartment
3. Utility Center
4. Shore Power Connection
5. Furnace Vent
6. Water Heater
7. Sewer Termination
8. Sewer Hose (Behind Doors)
9. Slide Out Room



TOP VIEW

1. Solar Panels
2. Roof Vent
3. Skylight
4. Stack Vent
5. Satellite
6. A/C
7. TV/WiFi Antenna

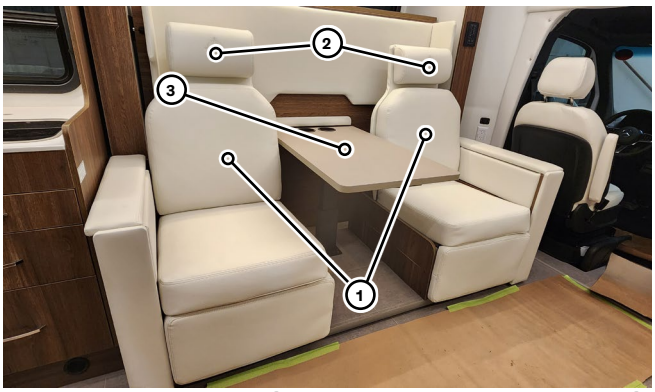


BEDS AND SEATING

MURPHY BED

LOWERING THE MURPHY BED

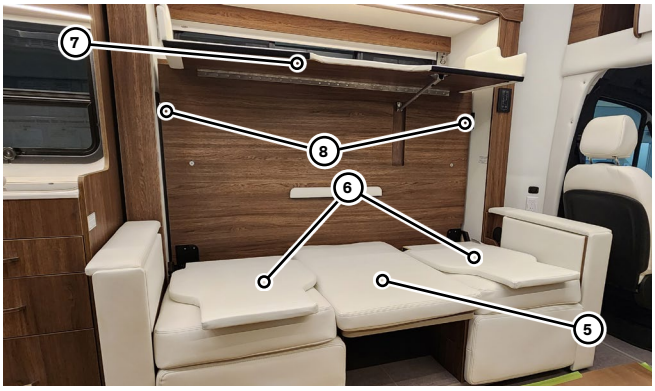
1. Remove the back rest cushions ① and head rest cushions ② from the Dinette area and set aside.



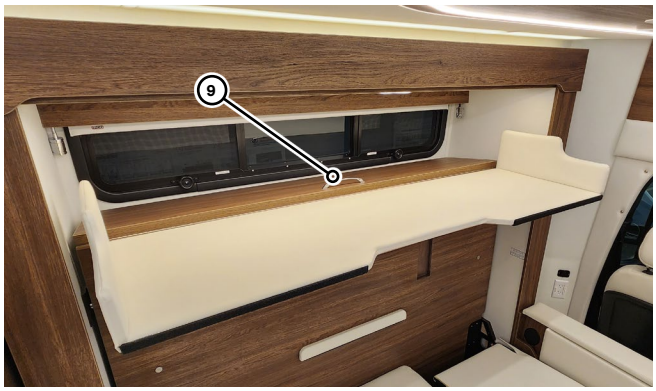
2. Lower the table ③ by pulling on the handle ④ and pushing down towards the back of the table.



3. Place the filler cushion ⑤ on to the table and fold down the backrests ⑥.
4. Raise the bed support platform ⑦ and twist the locking latches ⑧ to release the bed.



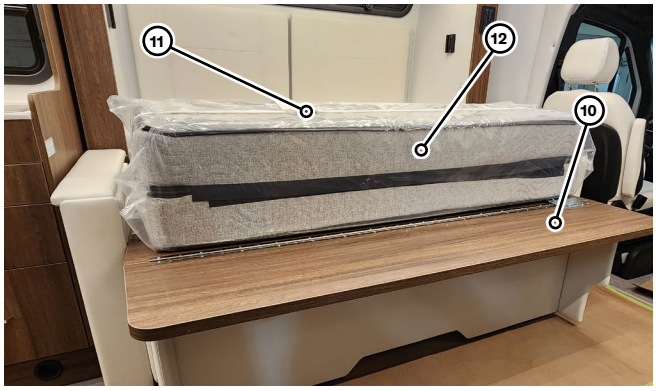
5. Using the handle ⑨, slowly lower the Murphy Bed completely and extend the bed extension ⑩. The Murhpy Bed will be locked in to the down position while the extension is down.



⚠ WARNING

Failure to have the extension folded out could cause the Murphy Bed to lift if weight is placed towards the outside edge of the bed.

6. Unclip the retension strap ⑪ and fold out the matress extension ⑫.



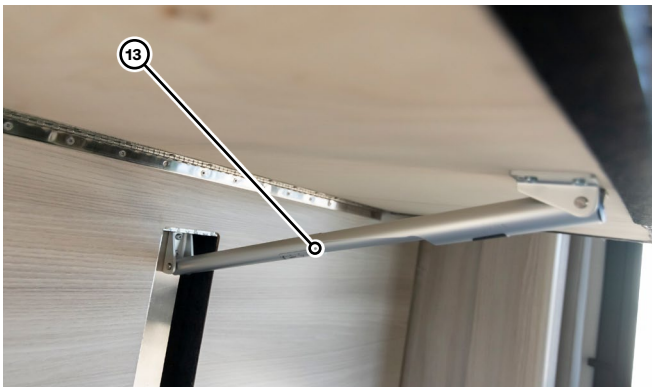
RAISING THE MURPHY BED

1. Before raising the Murphy bed, be sure to clear the bed of any loose items that may fall when the bed is raised.
2. Fold up the matress extension (12) and secure it in to place with the retention strap (11).
3. Raise the bed extension (10) to release the locking mechanism and lift the Murphy Bed using the handle (9).

⚠ CAUTION

Failure to release the locking mechanism may cause damage to the Murphy Bed.

4. Once raised, secure the Murphy Bed in to place using the locking latches (8) on either side of the bed.
5. Lower the bed support by lifting slightly, and pushing upwards in the center of the support (13), and gently lowering the bed support.

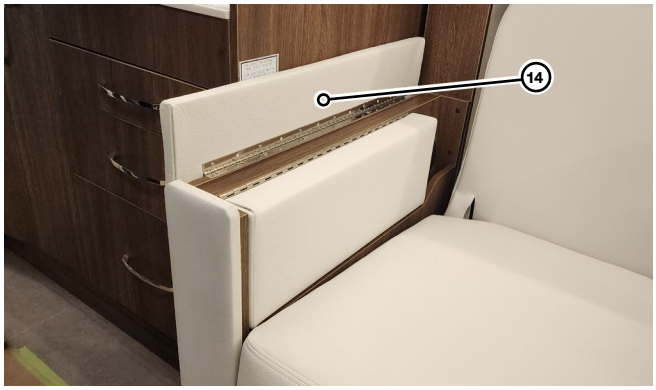


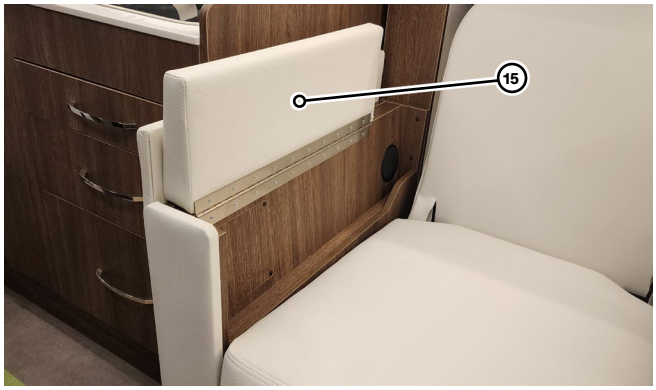
6. Replace the cushions on the dinette seating.

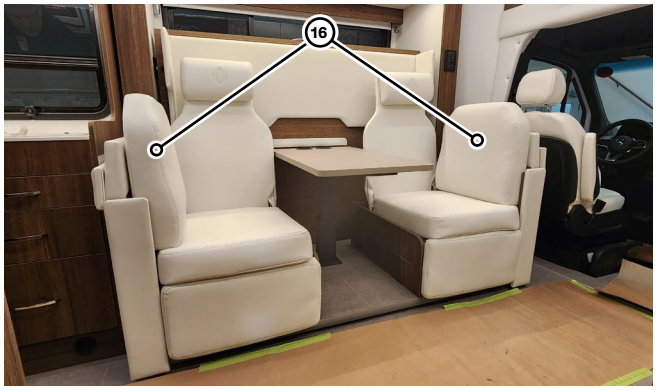
DINETTE SEATING

To set the dinette area up with bench seating:

1. Raise the armrest top (14).
2. Flip over the back rest support (15).
3. Move the back rest cushions (16) to the side.

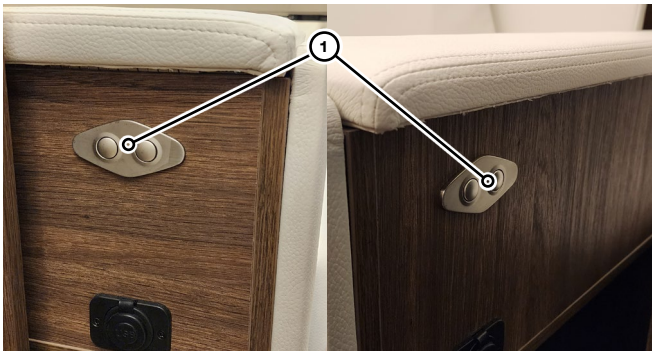






DINETTE FOOT RESTS

To raise or lower the foot rests on the dinette seating, you must either be connected to shore power, have the generator running, or have the inverter running. To raise or lower the foot rest, press the corresponding button ① on the side of the armrest.

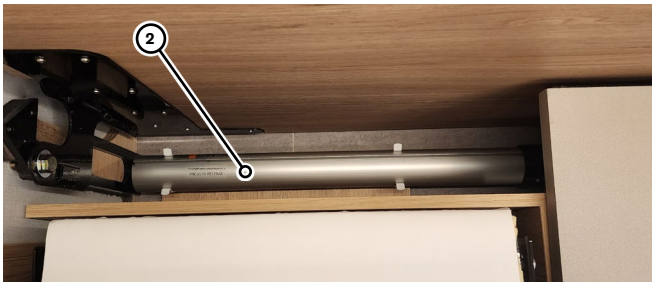


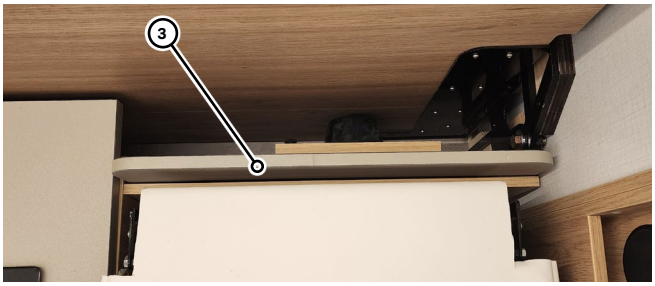
OPTIONAL FRONT TABLE

Your coach may be equipped with an optional front table.

INSTALLING THE REMOVABLE TABLE ASSEMBLY

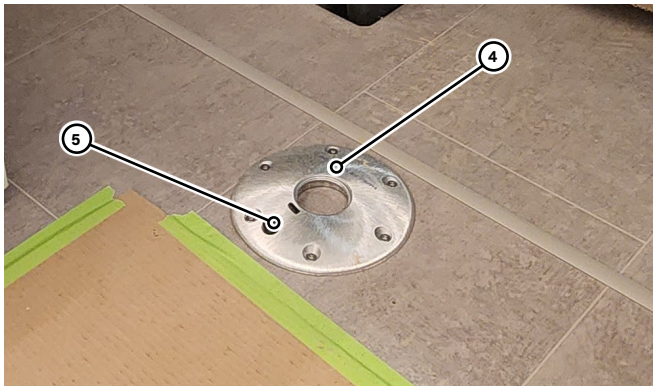
1. Locate the table leg ② and table top ③ stored behind the dinette seating.
2. Engage the table leg into the floor plate ④ and install the table top onto the leg.

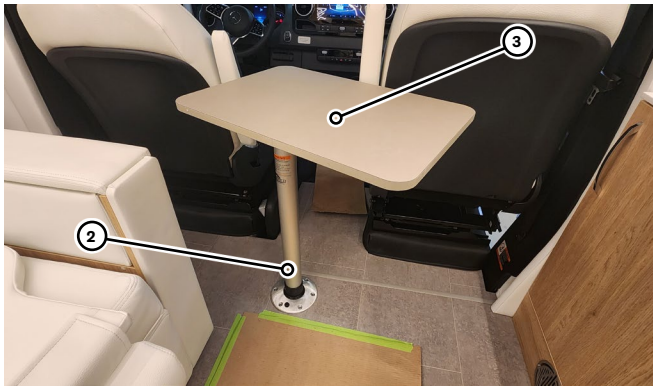




STORING THE REMOVABLE TABLE ASSEMBLY

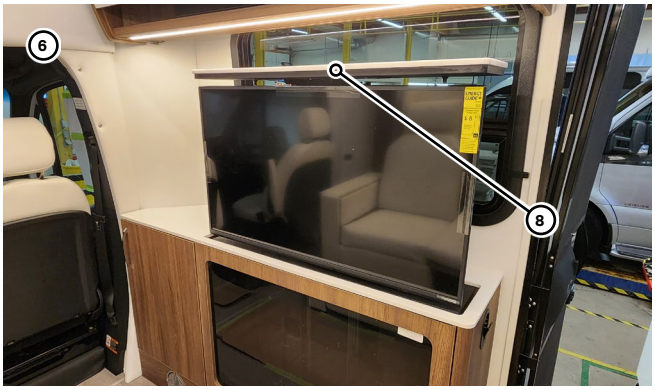
1. Remove the table top ③ and store it behind the dinette seat.
2. Press down on the release button ⑤ and rotate the table leg ② counter clockwise to remove, and store behind the dinette seat.

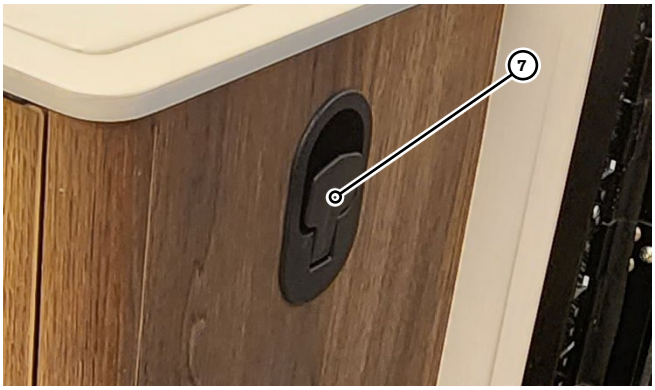




TV LOCATIONS

The TV is stowed in the coach passenger side countertop (6) and is accessed by pulling the release lever (7) located at the coach entrance.



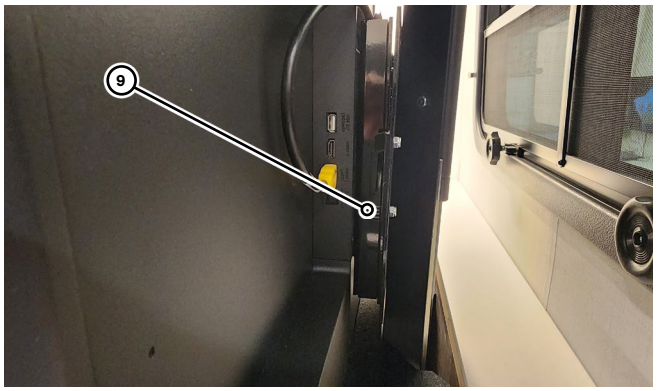


NOTE: The TV will rise from the cabinet under spring tension. Ensure the top of the TV cabinet is clear before opening.

To store, push down on the center of the cover panel (8) to lower the TV into the cabinet until the TV assembly latches.

NOTE: Push down only in the center of the cover panel to prevent damaging the panel.

The interior TV can also swivel towards the front of the coach for better viewing from the captains seats. In order the swivel the TV, you must flip the latch behind the TV (9) upwards to unlock the mechanism.



⚠ NOTICE

When traveling, ensure the TV is fully latched in the stored position.

Your coach may also be equipped with an optional exterior TV (10) accessed through the exterior storage door.

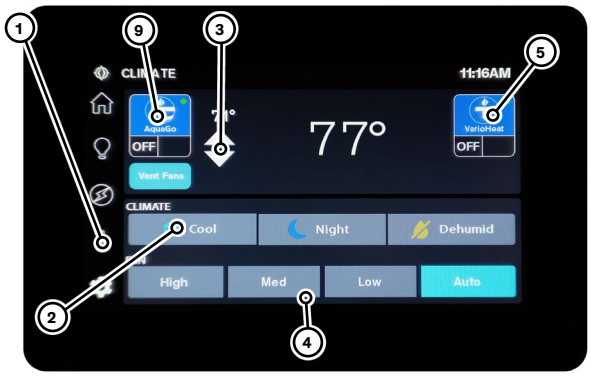


FIREFLY MULTIPLEX SYSTEM

CLIMATE CONTROL

The Unity Murphy Bed Lounge uses a Truma Varioheat furnace and a Truma Aventa air conditioner, both controlled via the multiplex system in your coach.

In order to adjust the interior temperature, tap the "Climate" icon ① on the multiple touch screen.



TRUMA AVENTA AIR CONDITIONER

In order for the Air conditioner to operate, your coach will need to have access to 120v power, either through the generator, or shore power.

To use the air conditioner, tap "Cool" ②, and adjust the desired temperature ③. If there is 120v power available and the desired temperature is lower than the current ambient temperature, the compressor will begin shortly after. When set to "Cool", the fan will run continuously.

To turn off the air conditioner, tap "Cool" ② once again, and the button color will reset to gray confirming the air conditioner is now off.

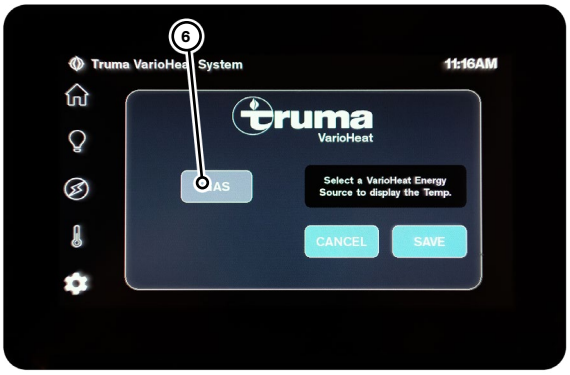
You can also adjust the fan speed ④ seperately from the air conditioner so long as you have 120v power. Tap either High, Med, Low, or Auto.

TRUMA VARIOHEAT FURNACE

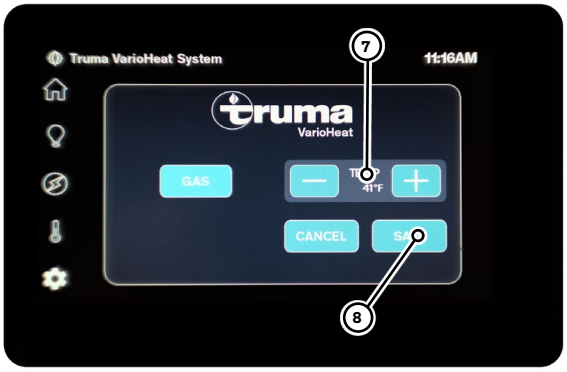
NOTE: In order to operate the VarioHeat furnace, the CP Plus remote must be turned on.

In order to operate the furnace, you must make sure the propane switch in the exterior compartment is turned on.

To turn on the heating function, tap the "VarioHeat" button ⑤ in the top right of the climate screen.



This will bring up a Energy Source Select screen. Tap on Gas ⑥ to select LP Gas as the source.



Once you have selected the source, you will have a temperature select option ⑦. Set this to the desired heating temperature for your coach, and select "Save" ⑧ to save the settings.

In order to turn the furnace back off, tap the "VarioHeat" button ⑤ once again, and tap on "Gas" ⑥ to deselect it. Tap "Save" ⑧ once more to save the settings.

TRUMA AQUAGO WATER HEATER

NOTE: In order to operate the Aquago Water Heater, the CP Plus remote must be turned on.

The water heater in the Unity Murphy Bed Lounge is controlled through the multiplex system instead of having a separate water heat control.



In order to turn on the water heater, tap the “AquaGo” button (9) in the top left of the Climate screen.

This will bring up a mode select screen (10), where you can toggle between off, Eco, or Comfort mode. Once you’ve selected the mode you want, tap “Save” (11) to save the settings.

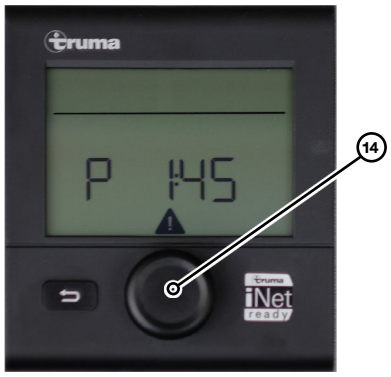
CP PLUS REMOTE

The Unity MBL uses a CP Plus (12) located in the entrance door overhead (13) in order to convert the signal from the Firefly multiplex system to control the Truma VarioHeat furnace and the Aquago Comfort Plus water heater.



In order to use either of those components, the CP Plus must be powered on by pressing the center dial (14), and be in standby mode. If the display backlight is on, you will need to wait roughly 10 seconds of inactivity on the CP Plus for it to enter standy before you can use the furnace or water heater.

NOTE: All of the settings on the CP Plus are preset at the factory. Changing these settings may cause the Aquago or VarioHeat to stop working properly.



CP PLUS POWERED ON AND IN STANDBY MODE

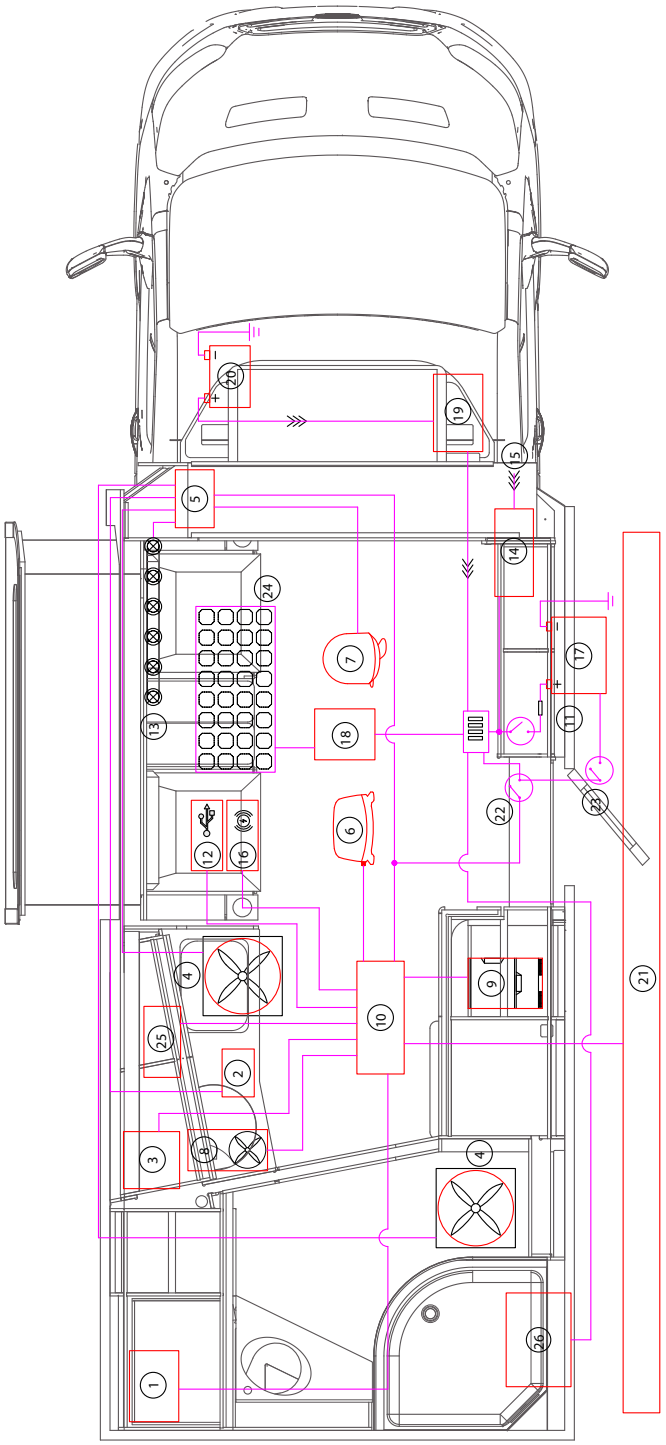


CP PLUS POWERED ON BUT NOT IN STANDBY MODE

3. SCHEMATICS

ELECTRICAL

12 VOLT ELECTRICAL REFERENCE

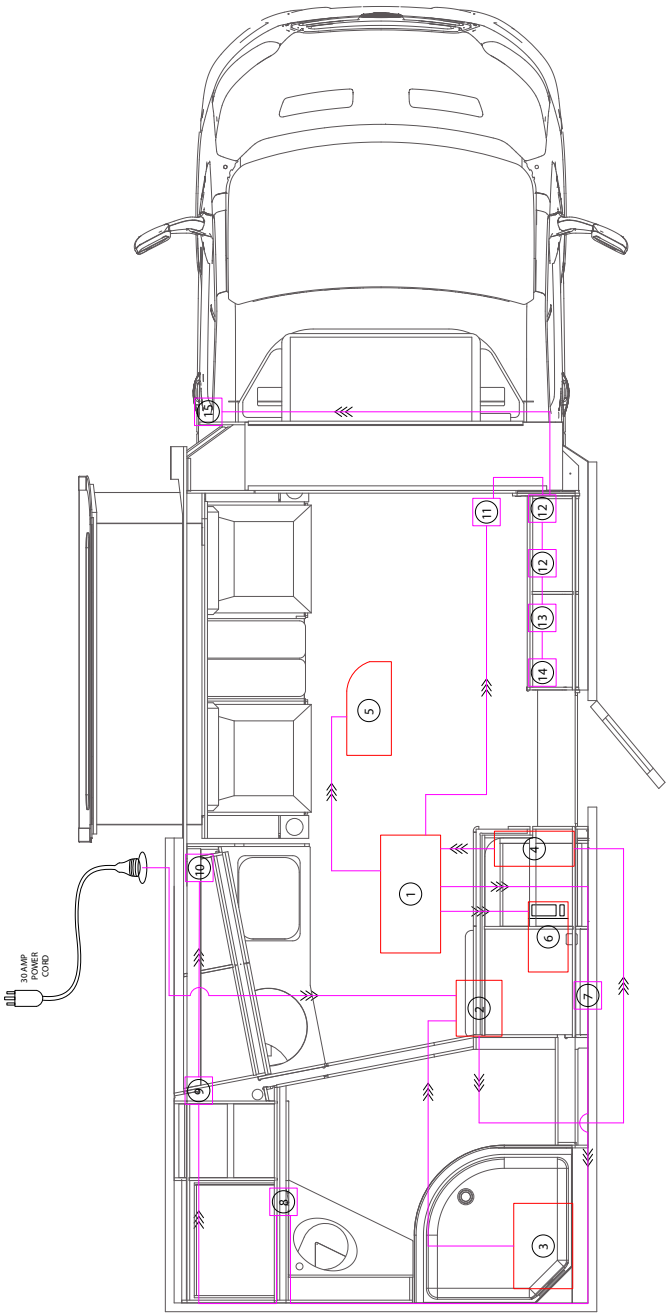


W24MBL 12V ELECTRICAL WIRING SCHEMATIC

PLEASE REFER TO FUSE PANEL LABELS FOR EXACT LAYOUT

① Macerator Pump (Optional)
② Water Pump
③ Water Heater
④ Power Roof Vent (Washroom/Galley)
⑤ Multiplex System
⑥ Winegard Connect 2.0
⑦ Satellite Dish (Optional)
⑧ Furnace
⑨ Fridge
⑩ DC Fuse Panel
⑪ Battery Storage Switch
⑫ USB ports
⑬ Light Circuits
⑭ Inverter
⑮ 120V AC Power Input
⑯ Wireless Chargers
⑰ RV Batteries
⑱ Solar Charge Controller
⑲ DC/DC Charger
⑳ Chassis Battery
㉑ Awning
㉒ Battery Disconnect
㉓ Lithium Battery Heat Enable switch
㉔ Solar Panels (200w /400w optional)
㉕ Slide Module
㉖ Generator

120 VOLT ELECTRICAL REFERENCE

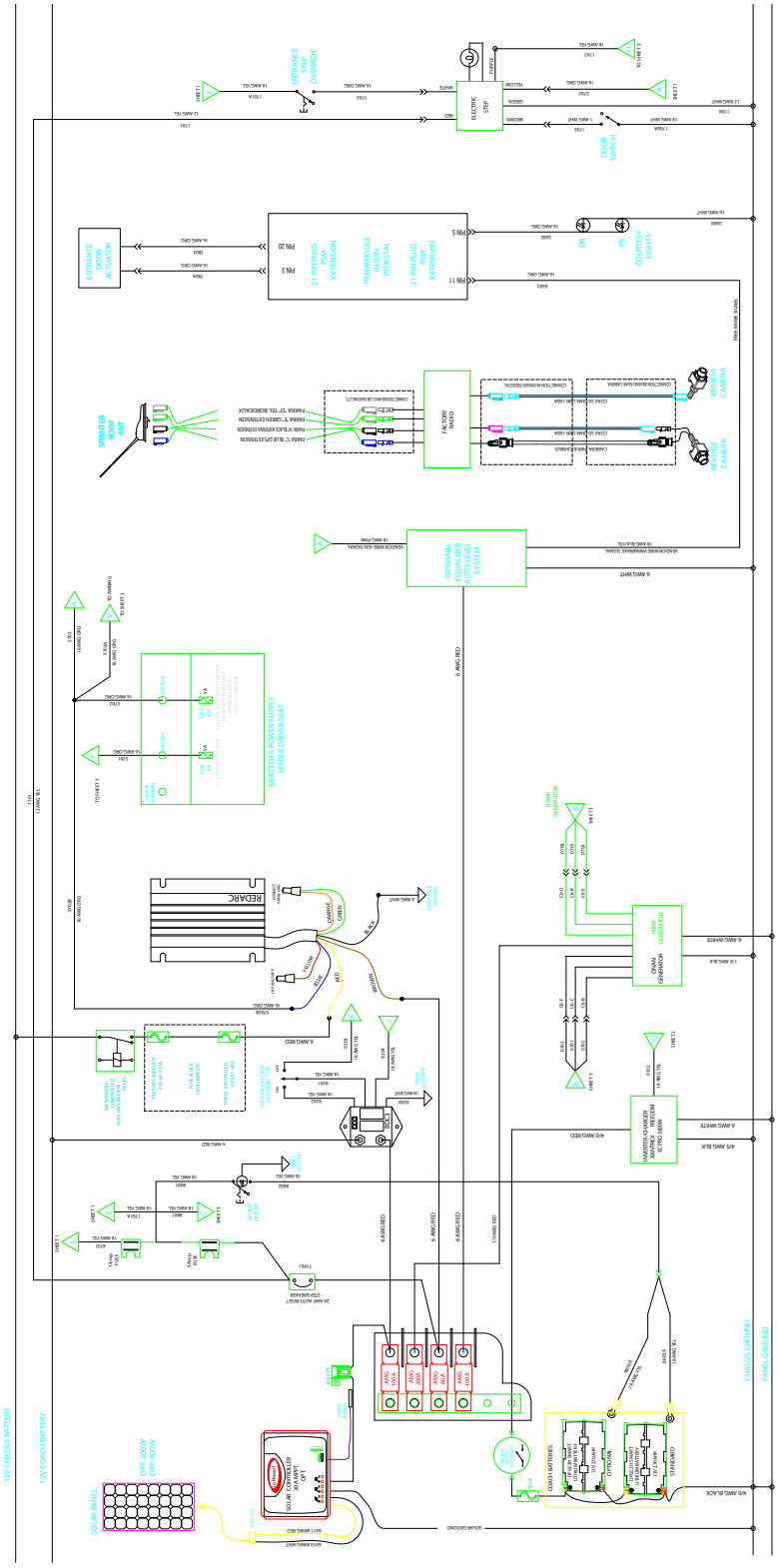


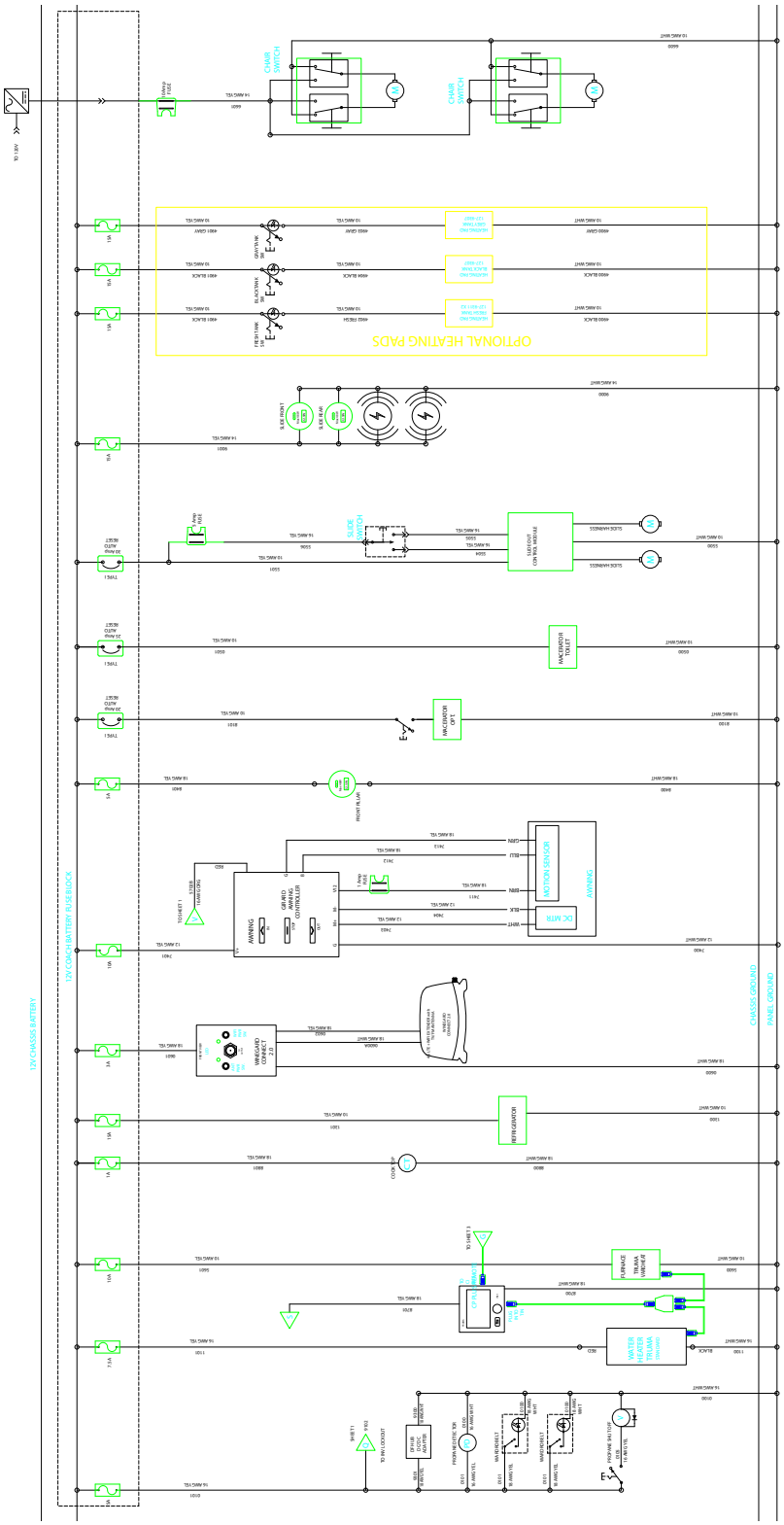
W24MBL 30 AMP 120V ELECTRICAL WIRING SCHEMATIC

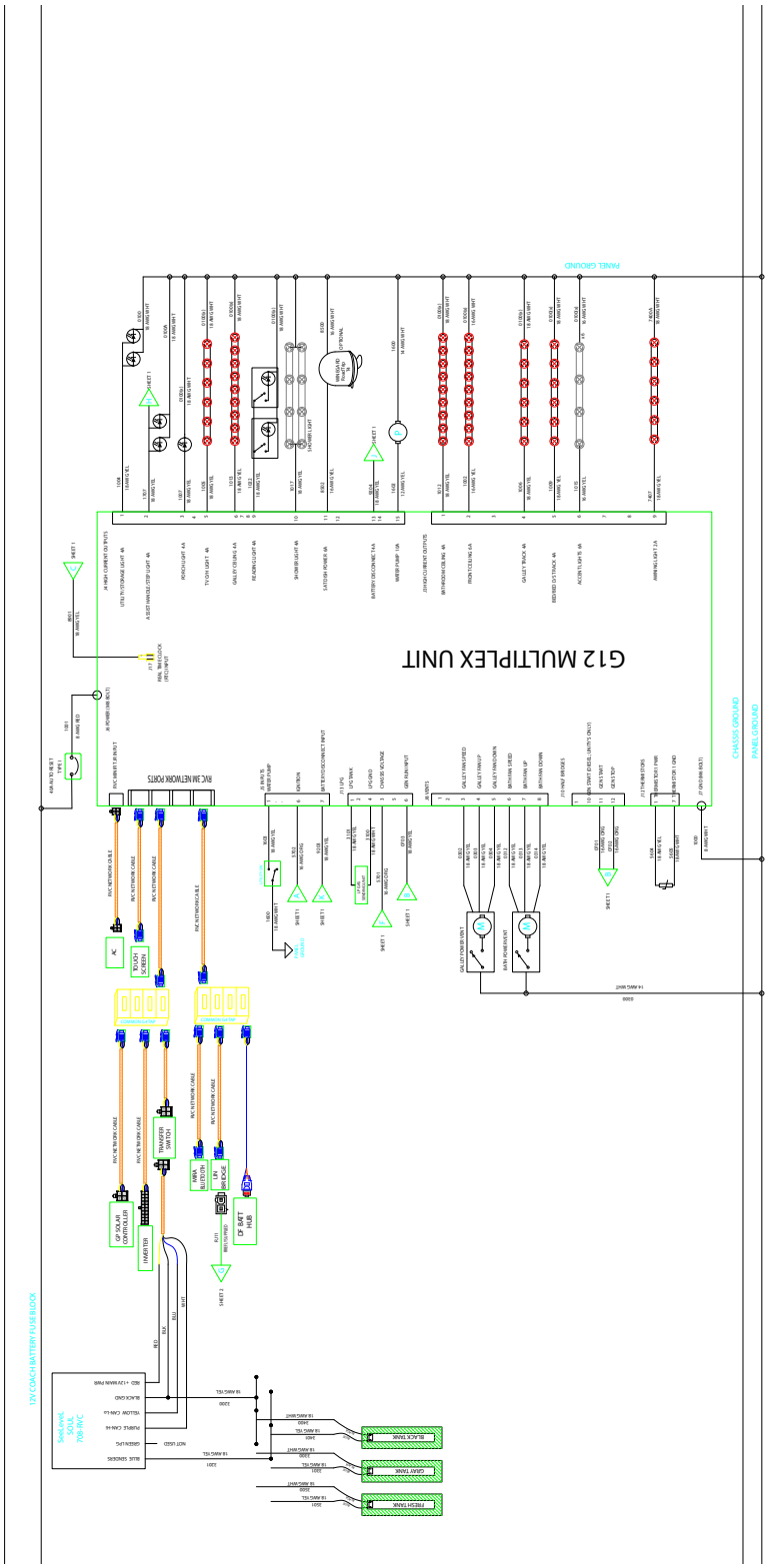
PLEASE REFER TO BREAKER PANEL LABELS FOR EXACT LAYOUT

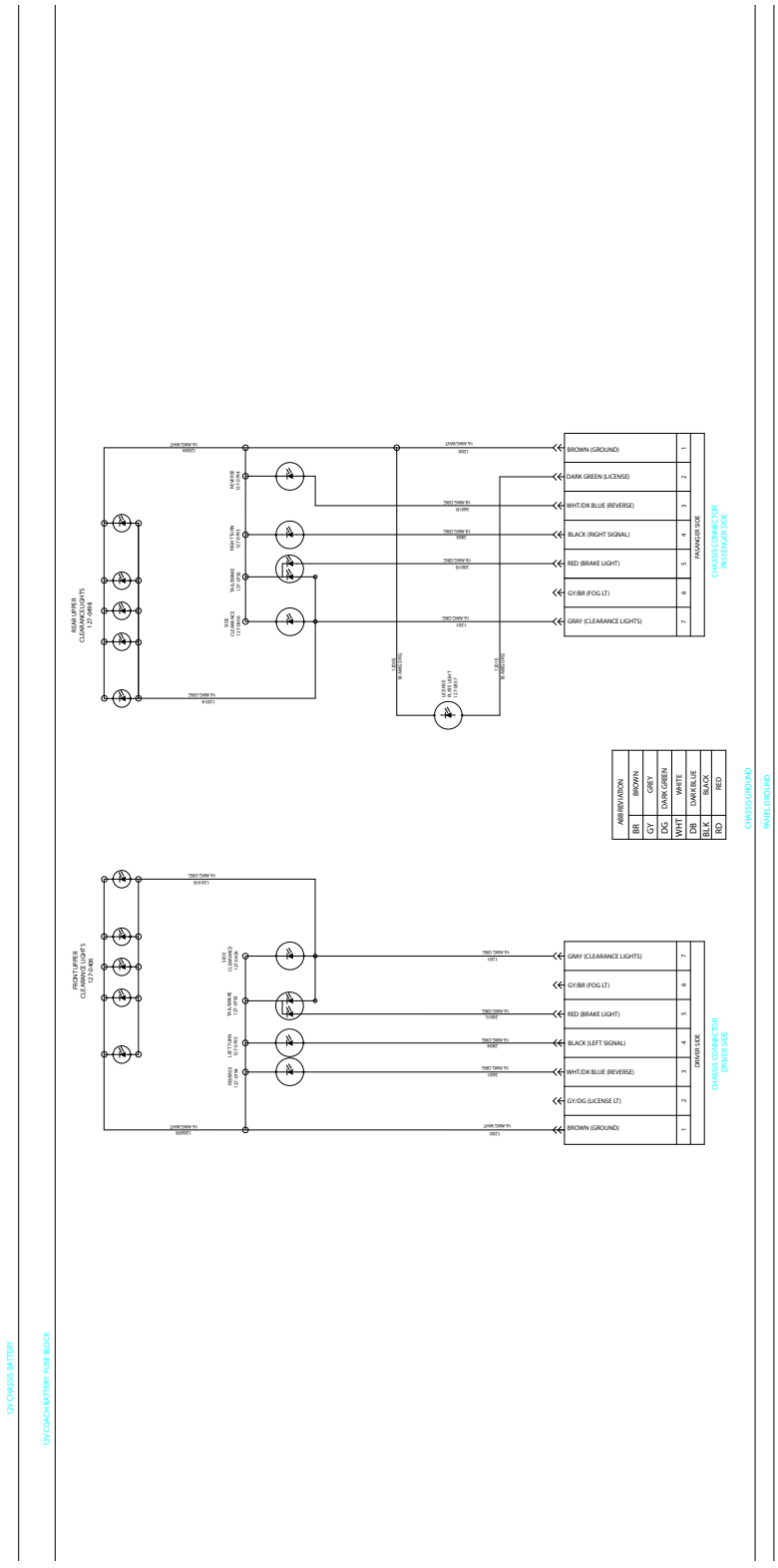
① AC Distribution Panel
② Transfer Switch/Surge Protector
③ Generator
④ Inverter/Charger
⑤ Air Conditioner
⑥ Microwave
⑦ Exterior Receptacle
⑧ Washroom Receptacle
⑨ Galley Receptacle
⑩ Slide Recliner Power Receptacle
⑪ Soundbar Receptacle
⑫ Entertainment Receptacle
⑬ TV Receptacle
⑭ Ext. TV Receptacle (Optional)
⑮ Driver Side Pillar Receptacle

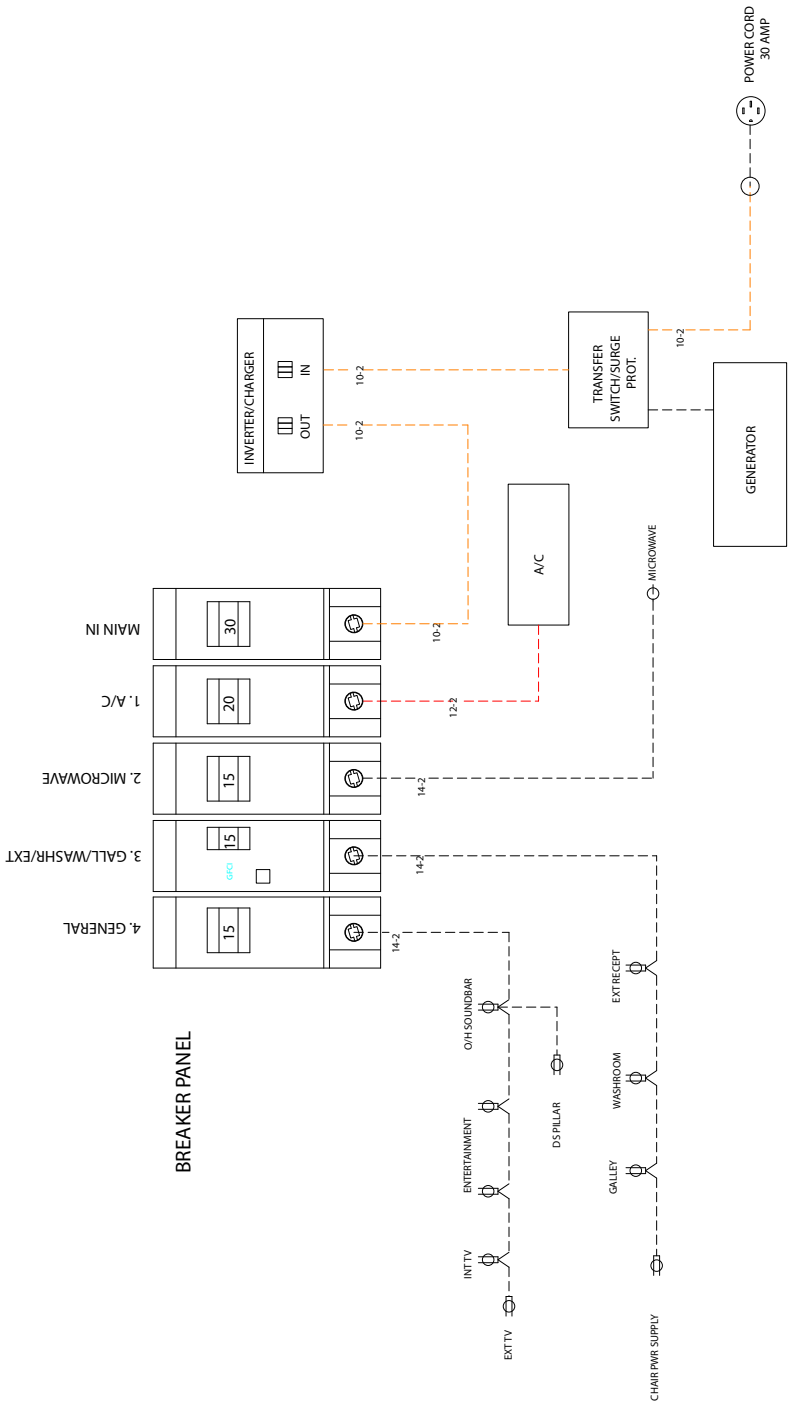
ELECTRICAL SCHEMATIC




CHAIR SWITCH
CHAIR SWITCH
OPTIONAL HEATING PADS
SLIDE SWITCH
MACERATOR TOILET
MACERATOR OPT
MOTION SENSOR
AWNING
DC MTR
AWNING
WINEGARD CONNECT
REFRIGERATOR
FURNACE
TRUMA WATCHER
WATER HEATER TRUMA
12V CHASSIS BATTERY
12V COACH BATTERY FUSE BLOCK
CHASSIS GROUND
PANEL GROUND

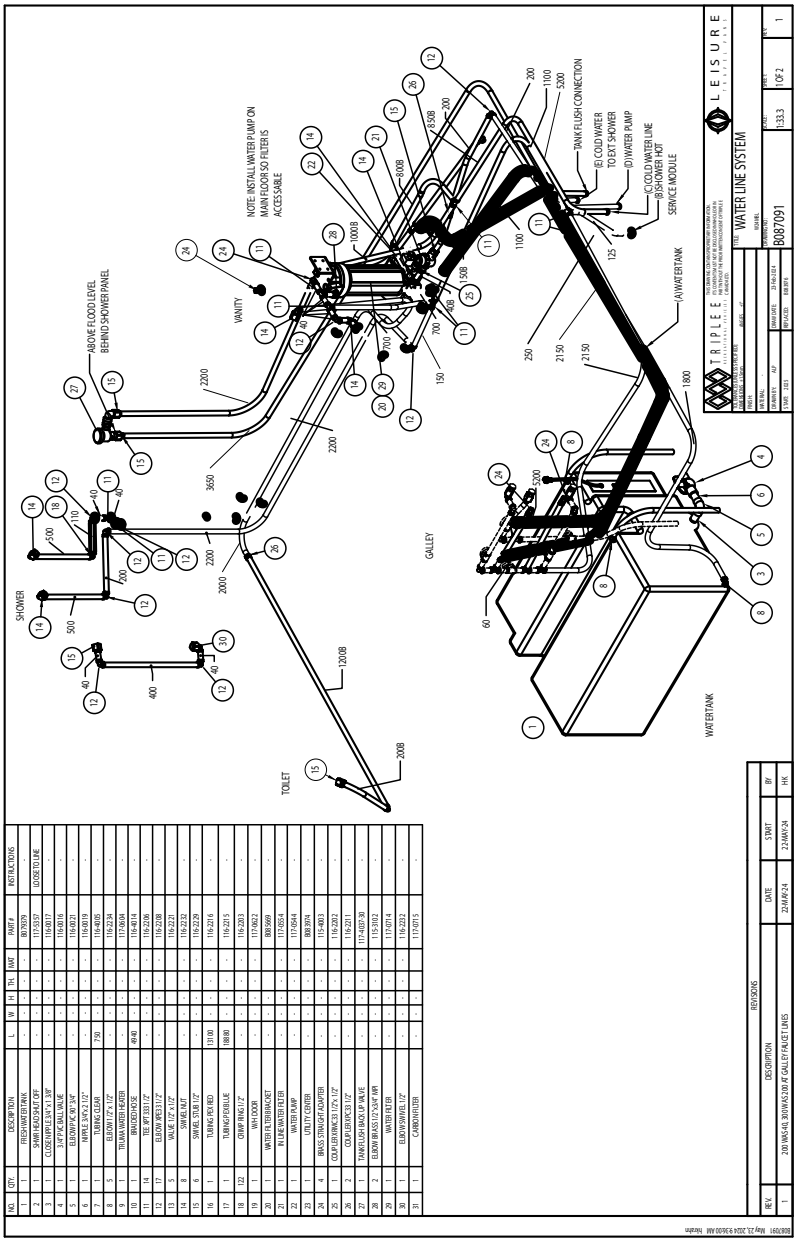

G12 MULTIPLEX UNIT
PANEL GROUND
CHASSIS GROUND
12V COACH BATTERY FUSE BLOCK


12V CHASSIS BATTERY
12V COACH BATTERY FUSE BLOCK
CHASSIS GROUND
FRAME GROUND
FRONT UPPER CLEARANCE LIGHTS 12-7-0498
BROWN (GROUND)
DARK GREEN (LICENSE)
WHT/DK BLUE (REVERSE)
BLACK (RIGHT SIGNAL)
RED (BRAKE LIGHT)
GY/BR (FOG LT)
GRAY (CLEARANCE LIGHTS)
CHASSIS CONNECTOR PASSENGER SIDE
FRONT UPPER CLEARANCE LIGHTS 12-7-0486
GRAY (CLEARANCE LIGHTS)
GY/BR (FOG LT)
RED (BRAKE LIGHT)
BLACK (LEFT SIGNAL)
WHT/DK BLUE (REVERSE)
GY/OG (LICENSE LT)
BROWN (GROUND)
CHASSIS CONNECTOR DRIVER SIDE
ABBREVIATION
BR BROWN
GY GREY
DG DARK GREEN
WHT WHITE
DB DARK BLUE
BLK BLACK
RD RED


POWER CORD
30 AMP
TRANSFER
SWITCH/SURGE
PROT.
GENERATOR
INVERTER/CHARGER
IN
OUT
A/C
MICROWAVE
MAIN IN
1. A/C
2. MICROWAVE
3. GALL/WASHR/EXT
4. GENERAL
BREAKER PANEL
O/H SOUNDBAR
ENTERTAINMENT
INT TV
EXT TV
D/S PILLAR
GALLEY
WASHROOM
EXT RECEPT
CHAIR PWR SUPPLY

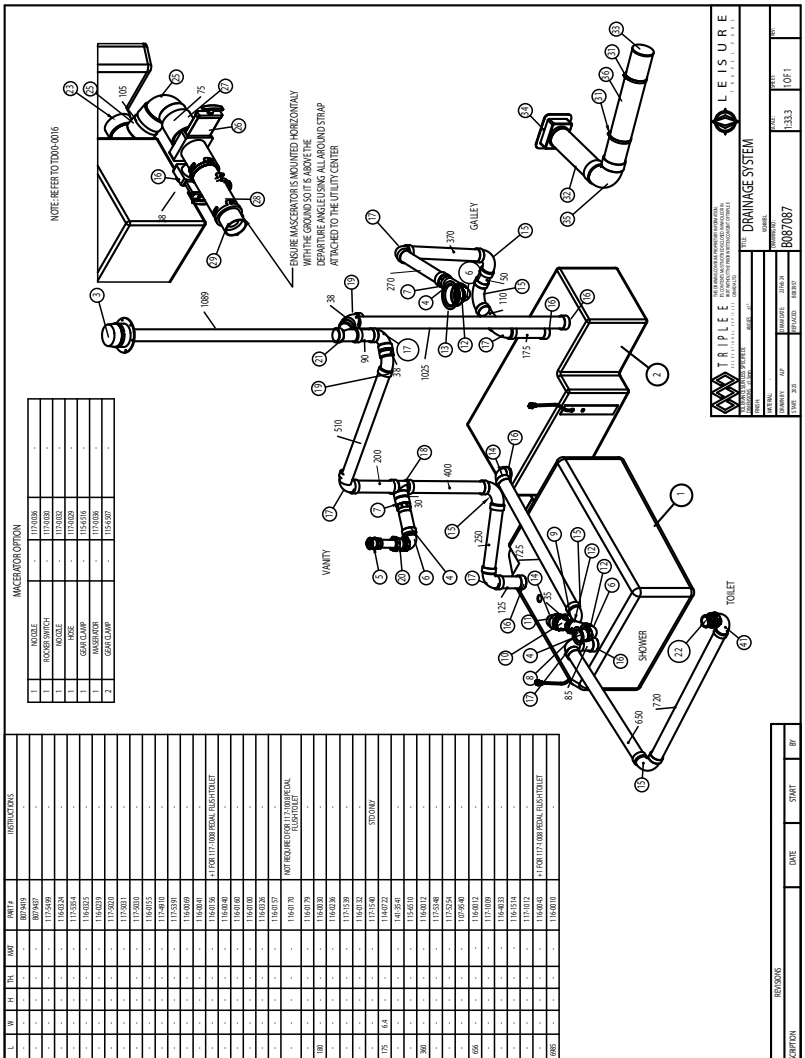
PLUMBING

WATER LINES SCHEMATIC

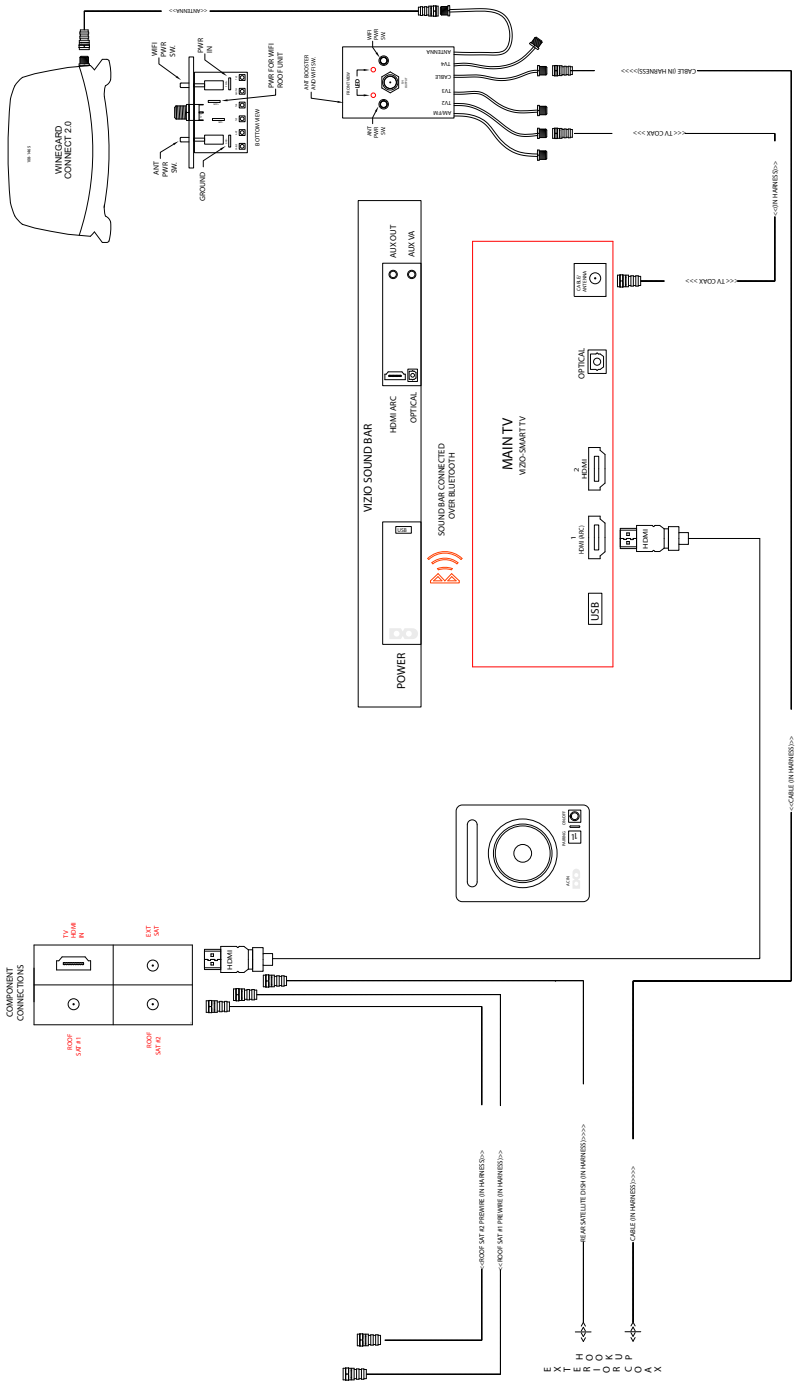


NO.	QTY.	DESCRIPTION	L	W	H	No.	PART	ALTERNATIONS
1	1	FRESH WATER TANK	-	-	-	-	88 87039	-
2	1	SHWR HEAD-2.4GPF-OFF	-	-	-	-	171 5537	UG DETO LINE
3	1	CLOSE NIP-1.5 IN × 1 3/8"	-	-	-	-	116 0017	-
4	1	3/4"PVC BALL VALVE	-	-	-	-	116 0016	-
5	1	ELBOW PVC 90° 3/4"	-	-	-	-	116 0021	-
6	1	NIPPLE SCH 2 1/2"	-	-	-	-	116 0019	-
7	1	TUBING-CLEAR	730	-	-	-	116 4035	-
8	5	ELBOW 1/2" x 1/2"	-	-	-	-	116 2234	-
9	1	THUMB WATER HEATER	-	-	-	-	116 0084	-
10	1	BRACED HOSE	4940	-	-	-	116 4014	-
11	14	TEE 3/8" 3331 1/2"	-	-	-	-	116 2206	-
12	17	ELBOW 3/8" 3311 1/2"	-	-	-	-	116 2208	-
13	5	VALVE 1/2" x 1/2"	-	-	-	-	116 2231	-
14	8	SWIVEL NUT	-	-	-	-	116 2232	-
15	6	SWIVEL STUB 1/2"	-	-	-	-	116 2229	-
16	1	TUBING PEX RED	3310	-	-	-	116 2216	-
17	1	TUBING FEB BLUE	1880	-	-	-	116 2215	-
18	132	CRIMP RING 1/2"	-	-	-	-	116 2263	-
19	1	WATER DOOR	-	-	-	-	117 0622	-
20	1	WATER FILTER BRACKET	-	-	-	-	88 9369	-
21	1	IN LINE WATER FILTER	-	-	-	-	117 0054	-
22	1	WATER PUMP	-	-	-	-	117 0544	-
23	1	UTILITY CENTER	-	-	-	-	88 8974	-
24	4	BRASS STRAIGHT ADAPTER	-	-	-	-	171 4003	-
25	1	COUPLER HOSE 3/2 × 1/2"	-	-	-	-	116 2242	-
26	2	COUPLER HOSE 3/4"	-	-	-	-	116 2211	-
27	1	TANK FLUSH ASSY 3/4" MALE	-	-	-	-	114 4015 38	-
28	2	ELBOW BRASS 3/4" x 3/4" MPT	-	-	-	-	171 0010	-
29	1	WATER HEATER	-	-	-	-	117 0543	-
30	1	ELBOW SWIVEL 1/2"	-	-	-	-	116 2233	-
31	1	CARBON FILTER	-	-	-	-	117 0715	-

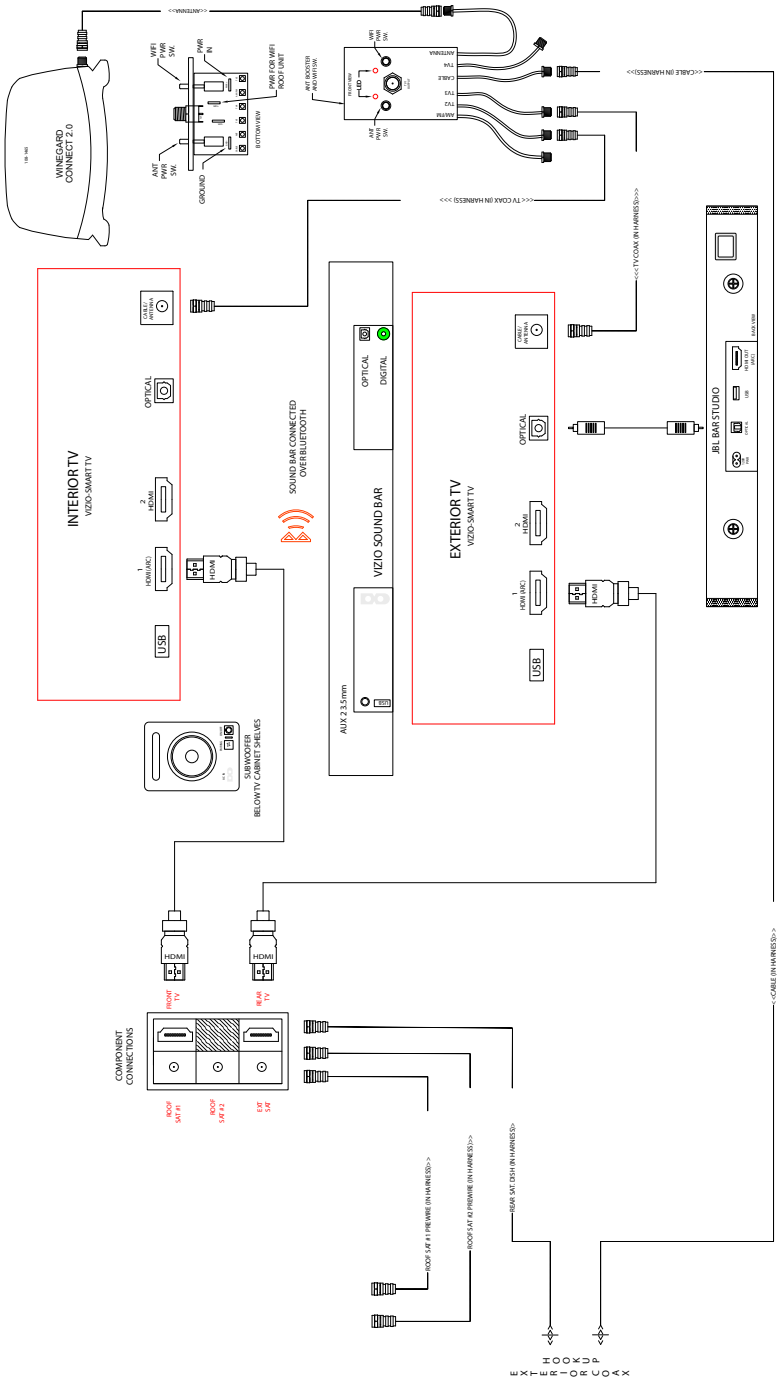
DRAIN LINE SCHEMATIC



ENTERTAINMENT

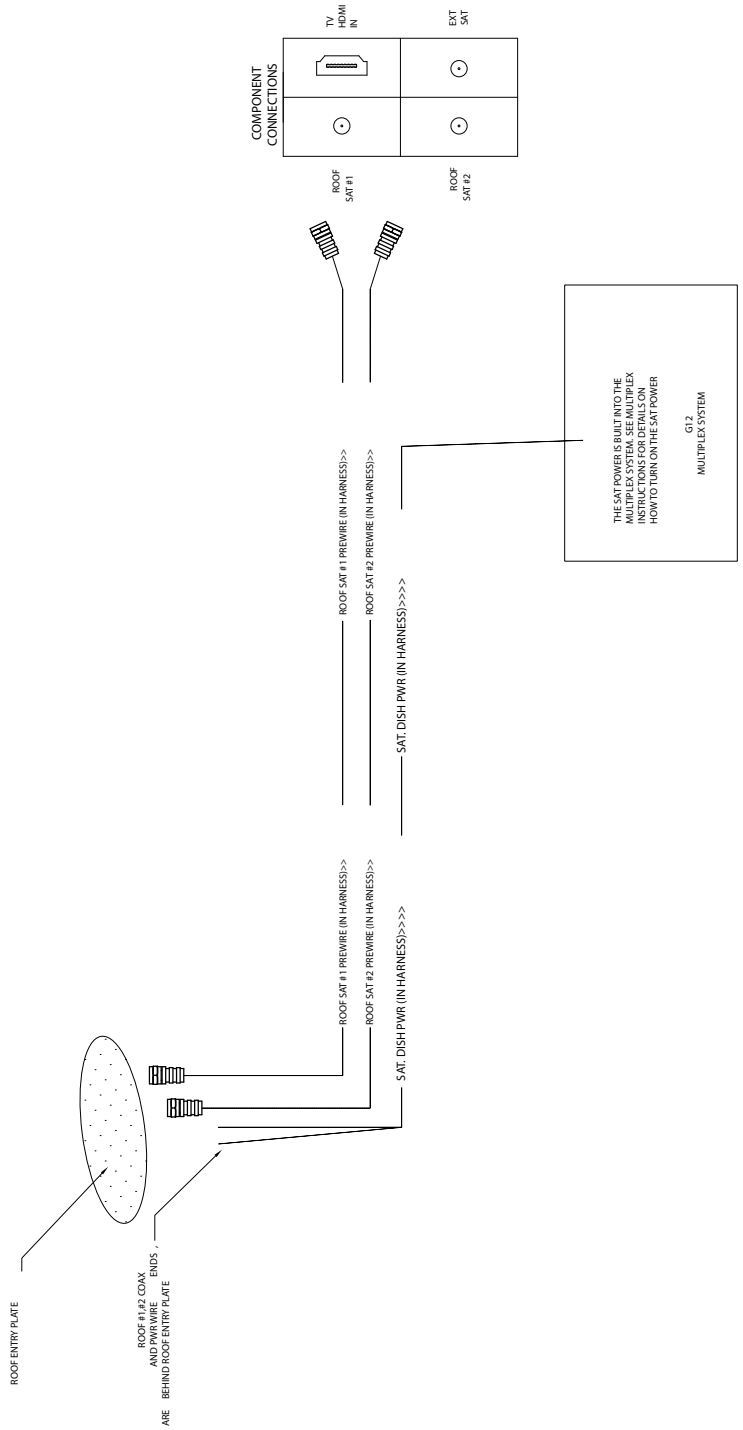


ENTERTAINMENT



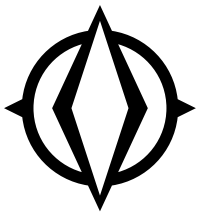
SATELLITE PRE-WIRE

If your coach did not come with the optional satellite dish, it will be pre-wired for installation at a later date if you so choose. Location of the prewire will vary by floorplan.



NOTES

NOTES



LEISURE

TRAVEL VANS

LTV Roadside Assistance

4287 Beltline Road, Box #198
Addison, TX 75001

for EMERGENCY ROADSIDE CALL
1•877•219•3831





Triple E Recreational Vehicles and Leisure Travel Vans are brands and trademarks of Triple E Canada Ltd.

301 Roblin Blvd., Box 1230 Winkler, MB Canada R6W 4C4
Telephone: 204-325-4361 Fax: 204-325-5241

US Address: P.O. Box 68 Walhalla, ND 58282

www.tripleerv.com • info@tripleerv.com • www.leisurevans.com • general@leisurevans.com

Product improvement is a continuing process at Triple E Recreational Vehicles.
We reserve the right to change specifications, operating instructions, standards and options on any products without prior notice. The information, illustrations and pictures within this document are current at the time of printing.

Copyright, Triple E Canada Ltd.
P/N 146-4611-SEP24

Printed in Canada