



Arriva

2023-2024 MANUAL



3500 SPRINTER CHASSIS

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Mercedes-Benz

MASTER
UPFITTER



WARNING

Operating, servicing and maintaining a 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

SUPPLEMENTAL INFORMATION (ADDENDUM)

Located in the back of the Coach House preprinted owner's manual are informational packets and / or manuals from our suppliers.

OR AS

SEPERATE ELECTRONIC PDF SUPPLEMENTAL INFORMATION

Please refer to these documents for detailed information regarding the actual devices and equipment which were installed at the time of manufacture.

Please note the manufacture's warranties may differ from the Coach House Limited warranty, or may need to be activated at the time of purchase.

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STANDARDS / OPTIONS

SECTION 1

GENERAL INFORMATION

STANDARDS / OPTIONS

Standard S
Optional O

“V”

V24

EXTERIOR

1	HD TV antenna / with Wi-Fi	S
2	Heavy duty trailer hitch	S
3	Exterior fiberglass storage compartments	S
4	Stainless steel wheel simulators	S
5	Exterior hot and cold shower	S
5	Cable TV jack	S
7	Frame-less jalousie windows	S
8	Rear protective skid wheels	S
9	Legless power awning w/ LED lights	S
10	Alcoa aluminum rims	O
11	Spare Tire and Rim	O

“V”

V24

INTERIOR

1	Cherry, Maple, Teak, Café' or Cypress	S
2	Large overhead and wardrobe storage	S
3	Solid-surface counter tops	S
4	Flat-panel HD TV w/swing arm (sizes vary)	S
5	Blue-Ray DVD player	S
6	MCD day/night shade system	S
7	Premium floors	S
8	Swivel, heated front driver and passenger seats	S
9	Medicine cabinet	S
10	Separate stand-up shower	S
11	Textured flooring	O
12	Hybrid mattresses	S
13	Flat-panel HD TV in bedroom (some models)	S
14	Side and rear screen door package	O

Features and options are subject to change without notice.

STANDARDS / OPTIONS

Standard S
Optional O

“V”

V24

#	DIMENSIONS	
1	Wheelbase	170"
2	Overall length	24' 2"
3	Overall width	6' 6.5"
4	Overall height including A / C	10' 5"
5	Interior headroom	6' 2"
6	GVWR (Maximum weight of loaded vehicle) in pounds	11,030
7	GCWR (Maximum weight of loaded vehicle plus tow) in pounds	15,250
8	Rear Axle Ratio	3.92:1
9	Fuel Tank (gallons)	26.4
10	Fresh Water Tank (gallons)	31
11	Gray Water Tank (gallons)	20
12	Black Water Tank (gallons)	13
13	Propane Tank (pounds / gallons)	55/12

“V”

V24

#	ELECTRICAL	
1	110v / 12v 45-amp converter	S
2	Ample 110v outlets (some with USB)	S
3	3.6 kw LPG Onan Micro-quiet generator	S
4	Interior and exterior LED lighting	S
5	Carbon monoxide, PL gas, and smoke detectors	S
6	Emergency start switch	S
7	Lithium Ion Battery System	S
8	Auxiliary Battery Disconnect	S
9	25-foot shore power cord	S
10	Exterior 110v outlet	S
11	Porch, compartment, and entry lights	S
12	Navigation system	S
13	2000 Watt pure sine wave inverter	S
14	Color back-up video camera and monitor	S
15	XM / Sirius satellite radio-ready	S
16	Auto start generator	S
17	1 - 190 watt solar battery charger	S
18	In-motion satellite system with receiver (Dish or Direct)	O

Features and options are subject to change without notice.

STANDARDS / OPTIONS

Standard S
Optional O

“V”

HEATING / COOLING

V24

1	15,000-Btu ducted roof air conditioner w/ heat pump	S
2	19,000-Btu auto LP gas furnace	S
3	Roof fan vents w/ sensors (#)	S (1)
4	Heavy-duty insulation	S
5	Heated holding tanks	S

“V”

GALLEY

V24

1	Two burner LP gas stove	S
2	Stainless convection / microwave oven	S
3	Recessed stainless kitchen sink w/cover	S
4	2-way refrigerator - (AC/LP Absorption)	S
5	2-way refrigerator - (AC/DC Compressor)	O
6	Spacious pantry	S

“V”

PLUMBING

V24

1	4 Season all-weather interior plumbing	S
2	Large propane tank	S
3	External quick disconnect for LPG grill	S
4	On-demand propane water heater	S
5	Porcelain flush toilet w/ sprayer	S
6	Fresh water system	S
7	City water connection	S
8	Black Water flush	S
9	Universal utility compartment	S

Features and options are subject to change without notice.

SECTION 1

GENERAL INFORMATION

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REFERENCE ABBREVIATIONS

MANUFACTURE/CONVERSION DATE

The date on which the coach portion of your motorhome was built.

GROSS VEHICLE WEIGHT RATING (GVWR)

The maximum permissible weight of this fully loaded motorhome.

SLEEPING CAPACITY WEIGHT RATING (SCWR)

The manufacturer's designated number of sleeping positions multiplied by 154 lbs (70 Kgs).

OCCUPANT AND CARGO CARRYING CAPACITY (OCCC)

The value equal to the GVWR minus UVW and full LP Gas weight. In other words, OCCC is the amount of weight in occupants, cargo, water and trailer tongue weight that can be added to the motorhome without exceeding the GVWR.

GROSS COMBINED WEIGHT RATING (GCWR)

The Gross Combined Weights Rating of the motorhome, i.e, combined weight of the Motorhome and any towed vehicle.

DESIGNATED SLEEPING CAPACITY

The manufacturer's designated number of sleeping positions.

GROSS AXLE WEIGHT RATING (GAWR)

The value specified as the load carrying capacity of a single axle system, as measured at the tire-ground interface.

TIRE SPECIFICATION

Recommended tires specification to meet handling, loading and safety requirements. Replacement tires must meet these specifications.

COLD TIRE INFLATION PRESSURE

Inflation pressures recommended (while cold) for the tires originally installed on your motorhome. These tire pressure levels must be maintained to ensure proper handling, safety and fuel economy.

CARGO CARRYING CAPACITY(CCC) [CANADA ONLY]

Equal to GVWR minus the total of the following: UVW, full fresh (potable) water weight (including water heater), full LP-Gas weight and SCWR.

UNLOADED VEHICLE WEIGHT (UVW)

The weight of this motorhome as manufactured at the factory with full fuel, engine oil and coolants.

MASS OF WASTE WATER TANKS

Total weight of the black and grey water tanks when filled to capacity.

VEHICLE IDENTIFICATION NUMBER (VIN)

This 17 digit number identifies the chassis on which the motorhome is built.

TYPE

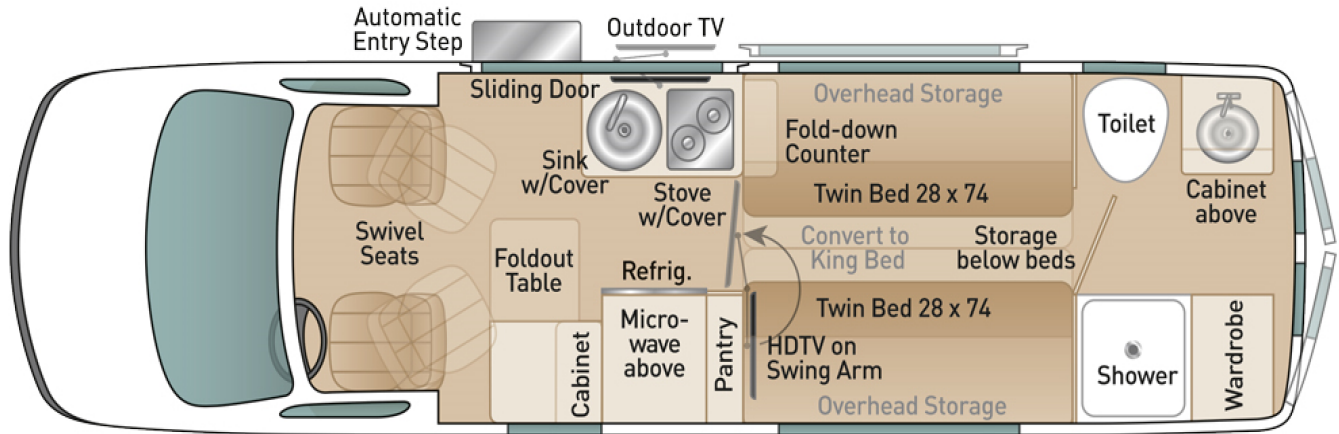
The National Highway Traffic Safety Association (NHTSA) designated usage classification for your Motorhome. MPV signifies a Multi-purpose vehicle.

IMPORTANT CONSIDERATIONS

1. The height of the motorhome is measured from the ground to the top of the highest standard component and is based on the UVW of a typically equipped motorhome. The actual height of your may vary depending on chassis, equipment, build variations or tire pressures. It is important that you know the actual height of your motorhome.
2. The load capacity of your motorhome is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motorhome.
3. Tank capacities are based on measurements prior to tank installation. Slight variations may occur due to tank shrinkage or expansion.
4. Actual filled propane tank capacity is 80% of listed capacity due to overfilling prevention device on tank.

FLOOR PLAN

V-24 (“VAN”)



ARRIVA V-24 TB


Twin Beds

CERTIFICATION LABELS

The vehicle certification labels affixed to your motorhome contain identification and other important reference information. Never remove or destroy these labels.

Manufacturer's Vehicle Identification Label

Located inside Driver's Side Door Jamb

MANUFACTURED BY:		 Coach House, Inc. VAN MOTOR HOMES		DATE:		8-2018	
INC. VEH. MFG. BY		DAIMLER AG		DATE:		12-2017	
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT IN: DATE	FRONT		REAR		GAWR		
	2000 kg (4410 lb)		3502 kg (7720 lb)		TIRES		
	LT215/85R16		LT215/85R16		RIMS		
	5.5jx16"		5.5jx16"		PSI COLD SINGLE		
	420 kpa (61)		420 kpa (61)				
GVWR	5003 kg (11,030 lb)						
VEHICLE I.D. NUMBER	WDAPF4CCOHP579331		V0055				MODEL NUMBER
COACH HOUSE I.D.:	KBB3480H18V055TB2		TYPE: MULTIPURPOSE PASSENGER VEHICLE				

TOWING GUIDELINES

To determine the towing capability of your vehicle, first refer to the chassis manufacturer's Owners Manual and/or manufacturers literature that covers your vehicle. Information on your vehicle you need to know is the GROSS COMBINATION WEIGHT RATING (**GCWR**), maximum trailer weight, maximum tongue weight, and the weight of your vehicle fully loaded.

After determining the above information, you can calculate the maximum size trailer you can tow by subtracting your loaded vehicle weight from the GCWR and compare the answer with the maximum trailer weight for your vehicle. Whichever figure is SMALLER will determine the maximum towing capacity (Loaded Trailer Weight) for your vehicle.

It is important to make sure that the tongue weight for your loaded trailer does not exceed the chassis manufacturers rating. Also check the capacity of the hitch installed to make sure you have not exceeded its rating.

VEHICLE WEIGHT DISTRIBUTION

To properly load your vehicle, first determine its empty weight axle by axle and compare this with the GROSS AXLE WEIGHT RATING (**GAWR**), which can be found on the FMVSS sticker located on the driver's door column.

Try to load your vehicle in a manner that proportionally loads the axles according to their available loading capacity. Make sure that your total weight does not exceed the GROSS VEHICLE WEIGHT RATING (**GVWR**) for your vehicle. Be aware that the total of the axle ratings (GAWR) can add up to more than the GVWR. Side to side weight distribution should be considered when loading your vehicle and adjustments made as deemed suitable.

It is recommended that you weigh your vehicle axle by axle when fully loaded especially if the load is close to the OCCUPANT & CARGO CARRYING CAPACITY (OCCC) indicated on the Motorhome Weight Information label for your vehicle. Ensure that none of the stipulated weight capacities have been exceeded. After weighing, make any load adjustments necessary to insure proper vehicle handling and performance.

TOWING AND COMBINED WEIGHT

The GROSS COMBINED WEIGHT RATING (**GCWR**) is defined as the maximum permissible gross weight of the vehicle and trailer. See the following page for information about towing.



Mercedes-Benz Quick Facts

<u>Gross Vehicle Weight Rating</u>	G.V.W.R.	11,030 lbs.
<u>Gross Axle Weight Rating (Front)</u>	F.A.W.R.	4,410 lbs.
<u>Gross Axle Weight Rating (Rear)</u>	R.A.W.R.	7,720 lbs.
<u>Gross Combined Weight Rating</u>	G.C.W.R.	15,250 lbs.



CAUTION

Total vehicle load must NOT exceed the maximum GVWR/GAWR/GCWR of the chassis. Brake Failure and/or stopping distance could be affected.

WEIGHT AND TOWING

Labels similar to the samples shown below have been placed on the inside of the passenger side door with weight information for your vehicle. If “CALC” appears after the UVW part of the label, this indicates that the UNLOADED VEHICLE WEIGHT has been calculated by using typical completed model actual weights and making adjustments for certain options.

MOTOR HOME OCCUPANT AND CARGO CARRYING CAPACITY VIN: XXXXXXXXXXXXX
THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED
XXXX kg OR XXXX lbs..

SAFETY BELT EQUIPPED SEATING CAPACITY: 2

CAUTION:

A FULL LOAD OF WATER EQUALS XXX kg OR XXX lbs.. OF CARGO @ 1kg/L (8.3 lb/gal)
AND THE TONGUE WEIGHT OF A TOWED TRAILER COUNTS AS CARGO

CAUTION:

LOAD CARRYING CAPACITY REDUCED
MODIFICATIONS TO THIS VEHICLE HAVE REDUCED THE ORIGINAL LOAD CARRYING CAPACITY BY
_____ kg OR _____ lbs..

RECOMMENDED TIRE PRESSURES


Maintaining the correct air pressure in your tires is vital to the smooth operation and safety of your vehicle. Please refer to the chart below for the recommended air pressure in the front and rear tires.

Look for tire pressure label on driver's side door jamb.


MODELS
ARRIVA

FRONT (PSI)
61

REAR (PSI)
61

Tire inflation pressure cold, laden vehicle Pression des pneus froid, véhicule chargé Presión neumático frío, vehículo cargado				
	front/avant/ delantero		rear/arrière/ trasero	
	kPa	psi	kPa	psi
LT215/85R16	420	61	420	61

MAIN FUSE PANEL



Mercedes-Benz
Arriva

Mercedes Benz V-24 TB Firefly System

12 Volt System Fuses

Blank	<u>Blank</u>
30	<u>Refrigerator</u>
Blank	<u>Blank</u>
20	<u>Lights and Fans</u>
10	<u>Water Heater</u>
15	<u>Furnace</u>
10	<u>T.V.</u>
20	<u>Accessories and Tank Heaters</u>
Blank	<u>Blank</u>
3	<u>L.P. Common</u>
Blank	<u>Blank</u>
10	<u>Drop Tap (Firefly)</u>

110 Volt System Breakers

30 Amp	20 Amp	15 Amp	20 Amp	15 Amp	20 Amp	15 Amp	15 Amp
Main Power	Microwave	A.C. Sensor	Inverter	Converter Box (12 Volt)	Air Conditioner	Refrigerator	Blank

AUXILIARY FUSE PANEL - I

<u>Circuit</u>	<u>Amp</u>	<u>Device</u>
1	Blank	Blank
2	5A	TV Wall Plate
3	Blank	Blank
4	7.5A	Satellite (Optional)
5	Blank	Blank
6	Blank	Blank

AUXILIARY FUSE PANEL - II (Under Drivers Seat Base)

Fuses in Driver's Seat Base

<u>Circuit</u>	<u>Amps</u>	<u>Device</u>
26	20	Power for Emergency Start Solenoid