Caravan Weight & Balance Spreadsheet Instructions

Enter the data on your IPad from your van or camper on the "**Setup**" page of the Spreadsheet. Once this is done you won't need to revisit the setup page unless you change your van or camper.

1. Enter this distance in mm. This is the distance from the centre of the Axle, or midway between both axles if Tandem wheels (Pivot), to the Towball.

2. This is the weight on wheels <u>only.</u> If you only have a Tare Weight as on your compliance plate, subtract the Ball Weight from the Tare Weight & enter here.

3. Enter the ball weight.

Note: You cannot enter the Total weight of Van as this cell is Locked & has the formula which adds the Wheel Wt & Ball Wt, Only enter "Wheel Weight" & "Ball Weight" as above.

4. Enter the storage positions in mm. This is the distance from the Pivot (axle centre, see above) to where the item is loaded in the van. To make it easy, place a piece of masking tape on the floor of the van at the pivot point then measure fore & aft to the storage positions.

Important Note: Remember forward of the pivot is + & rear of pivot is -

5. Describe each position for ease of filling out spreadsheet. These positions appear on the "Van Weights" page after they are entered on the "Setup" page.

6. Enter Weight Limits ATM & GTM (from Compliance Plate). If any of these weights are exceeded after entry of item weights, a message "Overloaded" will appear beside these weights.

7. Enter Max Ball Weight (Tow Bar Limitation or Vehicle Limitation)

Continue to measure the storage positions & place a description in the first column as in items 4 & 5. For the water tanks just measure from the pivot (axle center or midway between axles) to the centre of the tank.

Note: All the Empty Weights & Weight Limits will appear on the "Van Weights" page after they are entered in the "Setup" page.

Tip: Easy way to weigh items is to use a bathroom scale, weigh yourself & then weigh again holding the items & subtract your weight. Alternative is to use portable baggage scale.

On the "Van Weights" page (Main Page), enter the weights in kg's of the items placed in each storage area. Once all the data on the "Setup" page in completed you only need to enter item weights to get the following results.

Total Van Weight (to check ATM) Total Weight on Wheels (to check GTM) New Ball Weight (To ensure below towbar or vehicle GVM limits) Total Payload Downforce Percentage (to ensure enough downforce for stable towing 7% to 15%)

Please keep a master copy saved with a different file name in case the any data is deleted from the spreadsheet if you are using Apple Numbers.

All distances are in MM & all weights in KG.

This Spreadsheet was created on MS Excel & Apple Numbers (IPad). No trials have been attempted on the Android system.

To be used only as a guide on loading to assist in keeping your van or camper properly balanced.

<u>SETUP Page</u>

+	Van Weights	Setup						
						Empty Weight on Wheels.		
	Caravan Loading Dat	a		Weights		(Tare Wt - Empty Ball Wt)		
	Empty Weight on Wh	eels		2200	•	Empty Ball Wt 3		
	Empty Ball Weight			200	Axle - Ball Dist	- Distance from Axle Center		
	Empty Van Weight (Ta	are)		2400	↓ 5000	to Ball 1		
						Empty Van weight (Wheel Wt + Ball Wt)		
	Gas 🔶				3500			
	Position 1				3200	Distance from Axle Center.		
	Position 2				3000	0		
	Position 3				3000	Storage Position Name. (5)		
	Position 4				1500			
	Fwd Water Tank				1500			
	Position 5				500			
	Center of Axles				0			
	Position 6				-400			
	Position 7				-1000			
	Aft Water Tank				-1000			
	Position 8				-1000			
	Position 9				-2000			
	Position 10				-2500			
	ATM	2700	•		Weight Limitations 6			
	GTM	2500	•		(Compliance Plate			
	Max Ball Wt.	250	•		Ball Weight Limitations (Tow Bar or Vehicle Lin	7 nit)		

Van Weights	Setup				
Caravan Loading Chart	V	Veights			
Empty Weight on Wheels		2,200			
Empty Ball weight		200			
Tare Weight		2,400	Enter tem Weights in Green Boxes Only		
Item Name	Add Weight	ts Kg	Ball Wt. Change		
Gas		18	13		
Position 1			0		
Position 2		20	12		
Position 3		20	12		
Position 4			0		
Fwd Water Tank		80	24		
Position 5			0		
Center of Axles			0		
Position 6			0		
Position 7		30	-6		
Aft Water Tank		80	-16		
Position 8		20	-4		
Position 9			0		
Position 10			0		
			Ball weight Change		
Total Payload		268	35		
Total Weight on Wheels		2,433	GTM		
Loaded Ball weight		235	Max Ball Weight		
Total Van weight		2,668	ATM		
Ball Downforce %		8.8%			

Van Weights Page