

2010 43QGP Allegro Bus

9/29/2014

114 - FYI – <u>TUTORIAL - HOW TO USE THE "MOTORHOME</u> <u>WEIGHING PROGRAM".</u>

Over the years the "Motorhome Weighing Program" has developed into a tool for determining how much air pressure is required in each tire to SAFELY carry the weight of each coach wheel position.

The following photo shows a completed spreadsheet ready to be printed.

A B C D E F G H I J K L M N	O P O
MOTOR HOME WEIGHING PROGRAM, v15-1	
3 VEIGHT RATINGS FOR COACH, TOAD, HITCH & TOW BAR	
4. Bight Front The BRAT CILLS with your smachtTandap. HITCH	*Tire & Size Choices
5,500 6,650 CAPACI	Michelin 235/80822.51
7,600 10,000 mm 4	Michelin 255/80822.5 L
3 15.600 <<<<< AXLE RATING >>>> 22.000 13.300	Michelin 275/80R22.5 L
	Michelin 295/80R22.5 L
11 7,800 5,500 FEBOR	Michelin 315/80R22.5 L
13 Left Front	
14 COACH G.Y.W.R. 50,300 G.C.W.R 60,300 TOW BAR: \$588 TOAD G.Y.W.R: 5,660	STEER TIRE
15 ACTUAL COACH & TOAD WEIGHTS - Tire PSP- are calculated	SELECTION CELL
17 Fill in GRAT CELLS with uksel paritins TOWED	295/80022 51 04
15 Right Front weighter PERIOLE	255/00R22.5 EKI
20 7,500 115 PRESSARE 80 3,800 2,300 4150	CELL. SELECT THE
	EDOM THE LIST IN THE
23	DROP DOWN BUTTON
24 7,500 115 THE 80 3,520 2,300 TERTICAL	
26 Loft Front	DRIVE or TAG TIRE
27 COACH VEIGHT: 38,320 TOAD VEIGHT: 4,450 COMBINED VEIGHT: 43,370	SELECTION CELL
28	ning and a second s
30	295/80R22.5 LRH
	CELL. SELECT THE
33 GOFFN BUIMBERS - INNER I GAD, IT TOW DED BUIMBERS - OVED LO	DRIVE /TAG AXLE TIRE
34 Right Front Gran La Star Hitch	SIZE FROM THE LIST IN
36 300 600 5,550 EDITE	THE DROP DOWN
	"Load values for this program
33 33	were taken from the latest
40 300 362 2 AXLE 882 740 TERTICAL	Inflation Tables NO safety
41 KATING 740 4,350 350	margin has been added in the
43 COACH G.Y.V.P 11,980 G.C.V.P 17,530 TOV BAR: 550 TOAD G.Y.V.R: 1,210	calculations. Check your
44	specific tire manufacturers
46 DATE: COACH 2010 430GP Allegro Bus TOAL 2009 Lincoln MKX	TIRE PRESSURE.
41 48	
13	
H + + H 6 Wheel Program 8 Wheel Program Tire Specs	

There are THREE sections in the program. Section ONE contains data for EACH of the coach's RATED axle carrying capacity, the Toad's GVWR (Gross Vehicle Weight Rating), Hitch Capacity, Vertical Hitch Weight Capacity, and Tow Bar Capacity. The COACH axle rating data is contain on a label usually stuck somewhere near the driver's location, the following label was stuck on the side of the driver side console. I noted the GAWR for the three axles.

MANUFACTURED BY: TIFFIN MOTOR HOMES INC GVWR 23108.6 KG(50900 LB)	DATE:	2/1/10
GAWR FRONT 7082 KG(15600 LB) TIRES	29580R22.5 RIMS	22.5X8.25
GAWR INTERM 9988 KG(22000 LB) TIRES	29580R22.5 RIMS	22.5X8.25
GAWR REAR 6038 KG(13300 LB) TIRES	29580R22.5 RIMS	22.5X8.25
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE	SAFETY STANDARDS IN EFFECT ON	2/2010
V.I.N SVBBA87AXAA	TYPE- MDV	ED. 220

The Toad rating label displayed below is attached to the driver side door post on our toad.



The Hitch Capacity, the vertical Hitch Weight Capacity are attached to the hitch, the Tow Bar Weight, the Towing Capacity of the Tow Bar are attached to the tow bar. This data is inputted into the SIX GREY data cells. Section TWO contains the ACTUAL weights of the individual coach wheel positions, weight of the Towed Vehicle and weight of the tow bar. Section THREE contains the computed information based on the data inputted into section ONE and TWO.

On coaches with TWO axles there are 15 GREY colored cells which allow the data to be changed, 6 GREY cells in section ONE, 6 GREY cells in section TWO and 3 GREY cells in section THREE.

On coaches with THREE axles there are 18 GREY colored cells which allow the data to be changed, 7 GREY cells in section ONE, 8 GREY cells in section TWO and 3 GREY cells in section THREE. The 6 (two axle) or 9 (three axle) coach rated capacity and actual weight GREY colored cells are REQUIRED to compute the MINIMUM AIR PRESSURE necessary per wheel position to SAFELY carry the weight on each wheel position. The following photos show how to make the necessary tire size changes to determine TIRE AIR PRESSURE for the **STEER** tires.



Photo 1

Photo 2

Photo 1 is part of the normal display of the spreadsheet for the STEER axle, by clicking inside the **RED** cell the display will become that shown in Photo 2. By following the message to "Click on the BUTTON", the display changes to that shown in Photo 3. This is where the STEER tires correct SIZE is selected by CLICKING on the correct tire size from the seven selections.

Next, the correct tire size for the DRIVE and/or TAG axle tires needs to be selected.







The selection of DRIVE and/or TAG axle tire size is the same as seen in Photo's 1, 2, and 3 above.

Photo 4 is the normal display of the spreadsheet for the DRIVE/TAG axle, by clicking inside the **BLUE** cell the display will become that shown in Photo 5. By following the message to "Click on the BUTTON", the display changes to that shown in Photo 6. This is where the correct tire size is selected for the DRIVE and/or TAG axle tires the correct tire size is selected by CLICKING on the correct size from the SEVEN selections.

The tire data for the seven tires is contained in a separate data sheet labeled (Tire Specs) you can select the spreadsheet to look at that data by clicking on the page tab located at the bottom of the spreadsheet under the YELLOW tab.

The data in the "Tire Specs" sheet is contained in 35 Columns (wide) and OVER 17,000 Rows (Tall).

Rather than HIDE the tire data, I decided to allow the spreadsheet user to see the tire data, however the cells in the "Tire Specs" spreadsheet are LOCKED to prevent damage to the data entered in the cells and the formulas necessary to compute the MINIMUM safe tire air pressure based on the weight ON the individual coach wheel position.

	0 0 0 7	Q N I	1 2 2 8 1	LMN	0 8 0 F		J V J W J I	< Y 2 A	A AB AC A	DIACIAFIA	AT AT A		H AN TAN
				Miche	lin RV	TRUC	K Tire	Inflati	on Ta	bles			
Mic 265/70F LRG	chelia R19.5 LRG XZE2+	Mich 235/80R: LRG XF	22.5 LRG RV X2E	Mic 255/80R LRG XI	22.5 LRG RV X2E	Mic 275/00R LRG	22.5 LRG XZA3	Micl 275/80R LRH XZI	E, XZA3	Mic 295/80P LRH	kelin 122.5 LRH XZA2	Mick SIS/BORD LIFL X2A	ella 12.5 LRL 12. 3.2A
Single Wet PEI	Deal Wet PSI	Single Wat PSI	Deal Vgt PSI	Single Wgt PSI	Deal Wgt PSI	Single Vgt PSI	Deal Vgt PSI	Single Vgt PSI	Deal Vigt PSI	Single Wgt PSI	Deal Wgt PSI	Single Vigt PSI	Depl PEL
									1. 化硫化硫酸化 化硫化硫酸化 化硫化硫酸化硫酸化硫酸化硫酸化硫酸化 化硫化硫酸				
	23 UL 40 UL 42 UL 43 UL 44 UL	40 0L 41 0L 42 0L 43 0L 45 0L 45 0L	40 UL 41 UL 42 UL 42 UL 44 UL	40 UL 41 UL 42 UL 43 UL 43 UL 44 UL	40 UL 41 UL 42 UL 43 UL 44 UL	40 UL 41 UL 42 UL 45 UL 44 UL 78 10	40 UL 41 UL 42 UL 43 UL 44 UL 57 10	40 UL 41 UL 42 UL 43 UL 44 UL 44 UL	40 UL 41 UL 42 UL 43 UL 44 UL	40 UL 41 UL 42 UL 43 UL 44 UL	41 UU 41 UU 41 UU 44 UU 44 UU	41 UL 42 UL 43 UL 44 UL 44 UL	41 UX 42 US 43 US 44 US 40 US

The above photo shows a portion of the data contained in the "Tire Specs" spreadsheet.

There is ONE difference in the TWO axle and THREE axle spreadsheet programs, Tiffin does not manufacture a THREE axle coach using the Michelin 265/70R19.5 LRG tires, there for there are ONLY six tire size selections in the THREE axle program.

A completed spreadsheet for TWO axle coaches is shown below and ready to be printed.

MOTOR HOME WEIGHING PROGRAM, v15-1
WEIGHT RATINGS FOR COACH, TOAD, HITCH & TOW BAR
Right Front Fill in GRAY CELL Swith your Coach/Toad specs: TOWHITCH 3,750 CAPACITY
4,250 3,750 10,000 8,500
4,250 3,750 VERTICAL 1,000
COACH G.V.W.R: 23,500 G.C.W.R: 33,500 TOW BAR TOAD G.V.W.R:
ACTUAL COACH & TOAD WEIGHTS - Tire PSI's are calculated
Right Front Fill In GRAY CELLS with wheel position weights TOWED VEHICLE WENCLE WENCE
3,610 75 Pressure UL 6,800
3,990 75 Tire UL 6,150 VERTICAL
COACH WEIGHT: 20,550 TOAD WEIGHT: 0 COMBINED WEIGHT: 20,550
DRIVE TIRES - SET MININUM TIRE PRESSURE 75% OF MAXIMUM RATED TIRE PRESSURE
Right Front GREEN NUMBERS = UNDER LOAD LIMIT HITCH RED NUMBERS = OVER LOAD LIMIT 330 RESERVE 10.000
300 <<<< LOAD LIMIT >>>>> 2,050
260 38% % AXLE 86% 675 VERTICAL Left Front 1,000 1,
COACH G.V.W.R 2,950 G.C.W.R: 12,950 TOW BAR 0 TOAD G.V.W.R: 0
DATE: 0901/14 COACH: 2012 32BR Breeze TOAD:

Looking at the photo of the completed spreadsheet shown on page one of this document, you can see three spreadsheet tabs shown in the bottom left corner of the photo. The tabs are labeled, 6 Wheel Program, 8 Wheel Program and Tire Specs. Clicking on the 6 Wheel Program tab displays and allows completion for a **TWO** axle coach, clicking on the 8 Wheel Position tab displays and allows completion for a **THREE** axle coach. The Tire Spec tab supplies data for completion of the two spreadsheets.

The user will be able to change the data in **15 GREY** colored cells while using the **6 WHEEL PROGRAM** tab, and will be able to change the data in **18 GREY** colored cells while using the **8 WHEEL PROGRAM** tab. As previously stated **ALL** data cells in the "**Tire Specs**" tab are **LOCKED** to prevent damage to the data or formulas.

The following spreadsheet was completed for a THREE axle coach and ready to print.

	Fill in GRAY CELLS with	auropach/Toard spaces			11.716.12
Right Front		5,500 6,650	TOWHITCH CAPACITY		
7,900		5,500	10,000		
15,600 <<<< AXI	ERATING >>>>	22,000 13,300			
7,900		5,500 5,500	VERTICAL		
	50900 G	C W R- 60 900		5000 TOAD GVWR	5660
		WEIGHTS Time BSI's	are calculated		cjuur
Right Front	Fillin GRAY CELLS with	wheel position weights	TOWED		
7.500 415	TIRE 80	9,800 2,200	WEIGHT		
45000 - 115		49.220 1 4.600	4,450		
7.500		13,320 4,000	VERTICAL		
1,000 115	PRESSURE 80	9,520 2,500 80	50		
COACH WEIGHT:	38,920	TOAD WE	IGHT: 4,450	COMBINED WEIGHT:	43,370
		AD, HITCH & TOW BAR	R LOAD LIMITS	RED NUMBERS = OVER	LOAD LIMI
Right Front		600 4,350	RESERVE		
300		600	5,000		
600 <<<< L	DAD LIMIT >>>>>	2,680 8,700			1
200 00%	% AXLE 88%	740	VERTICAL		

The above photo displays what you will receive when a completed **8 Wheel Program** spreadsheet is printed.

My intent is to teach other coach owners how to use the Excel Spreadsheet program located at the following link, my hope is coach owners will use the spreadsheet to make sure their coach tires are SAFELY inflated so they can have a safe RV experience.

http://www.tiffinrvnetwork.com/crusingator/Files/File-002.xlsx