

Up



# Ride Height

## Information



Updated 09-12-08

Ride height is the measurement to properly inflate the air bags on your coach's suspension. Proper ride height will make for a better ride, better cornering and handling. It is essential for proper wheel alignment and drive line alignment to maximize tire and chassis wear.

Your Ride Height must be set BEFORE your wheel alignment is done!

Where to measure and what the measurement should be has evolved over time with newer and different suspension systems. This is an attempt to provide you with the key data so you can determine if your chassis needs a ride height adjustment.

It is **NOT** recommended to try and adjust your own chassis as loosening the ride height control valves could result in the chassis dropping down and crushing you if you are in the wrong place!

Any adjustments should be done by an authorized dealer or other qualified service shop with the proper tools.

Helpful Hint - Once you have your chassis Ride Height set correctly, you can develop a quick reference measurement. IF your chassis is set correctly and parked on level pavement, take a tape measure and measure at each wheel center line, from the ground to your floor trim strip! Record this measurement. Later, this will give you a quick way to see if your ride height is out of spec!

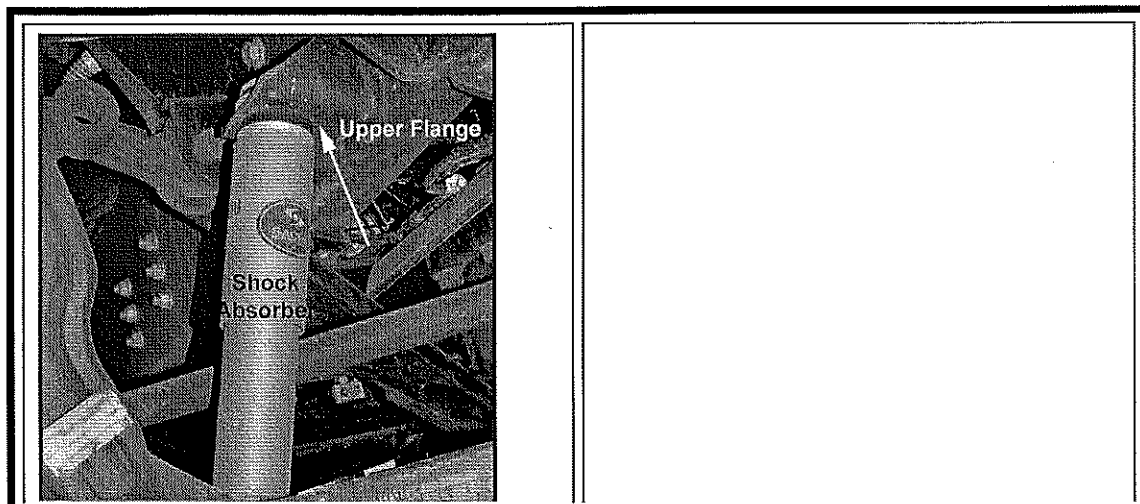
Another idea from our VP Bill Buck...cut a length of wooden dowel rod to the correct length and use that to check measurements...may be easier to find your 'measuring stick' than find that piece of paper with the numbers on it...thanks, Bill.

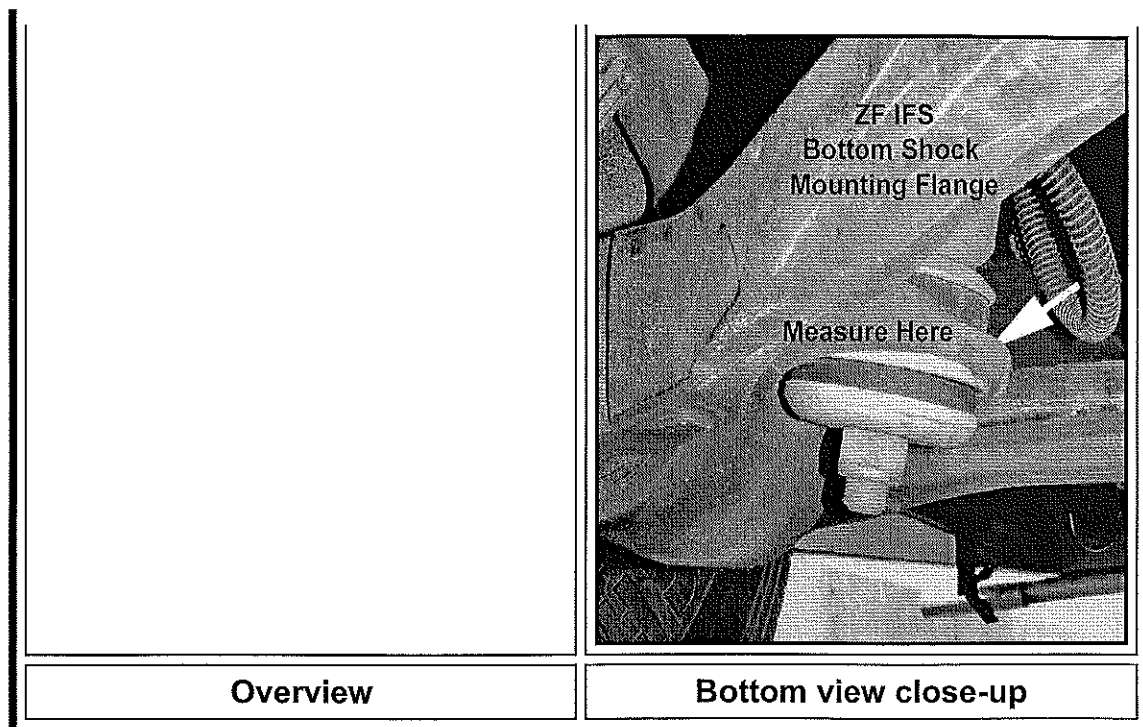
## XC Chassis Ride Height Data

Suspension Sub-system	Where to measure C/L = Center Line	Measurement
Front I-Beam Axle	Bottom of frame rail to C/L of bottom shock bolt	10.25" +/- 1/4"
Neway IFS	Measure from the center of the upper shock- absorber bolt to the center of the lower shock- absorber bolt.	17.5" +/- 1/4"
ZF-IFS	Bottom of upper mounting flange to top of bottom mounting flange (see picture below *)	15.75" +/- 1/4"
Rear Axle - ADL Chassis Mid-2002 MY+	Bottom of frame rail to C/L of bottom shock bolt	10.25" +/- 1/4"
Rear Axle - AD200 Chassis 1996 - Oct. 2001	Bottom of frame rail to C/L of bottom shock bolt	9.75" +/- 1/8"

Since the ride height specifications vary based on model year, axle, and suspension call the FCCC Hotline at 1 - (800) 385-4357 with your chassis VIN to get the data for your chassis.

### ZF IFS





## ZF IFS

### Ride Height Measurement

\* Note lower flange is not flat and has a partial cup on one side and is a little hard to get your ruler down in there to get a good measurement. What is showing in the photo is the lower bottom washer...the flange is above that, in right photo.

**CHASSIS RIDE HEIGHT**

**FRONT I-BEAM SUSPENSION:**

10.25" MEASURED FROM BOTTOM OF CHASSIS FRAME TO TOP OF AXLE PAD.

**INDEPENDENT FRONT SUSPENSION (IFS):**

16.125" FROM CENTER OF UPPER SHOCK EYE TO CENTER OF LOWER SHOCK EYE.

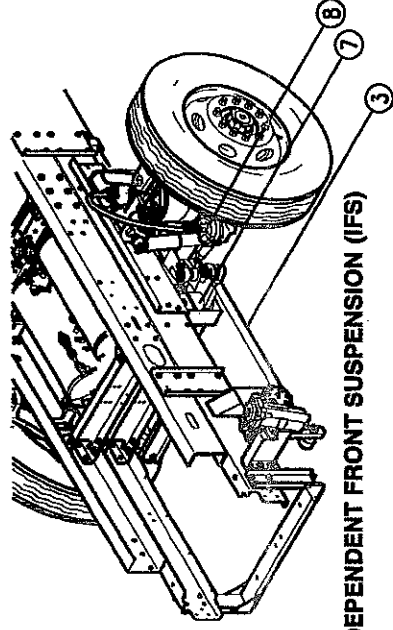
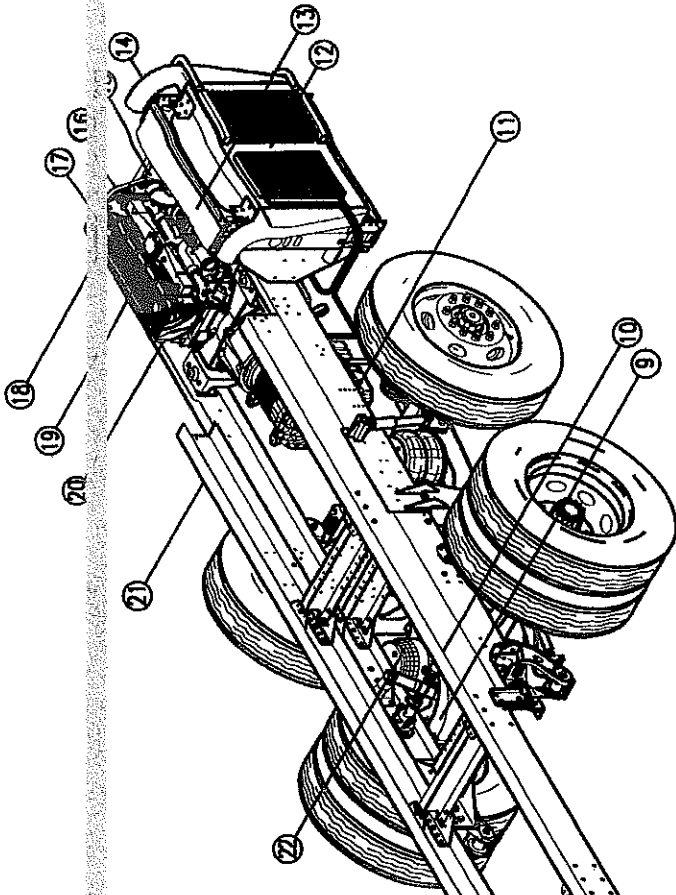
**REAR AXLE W/FRONT I-BEAM SUSPENSION:**

8.25" FROM BOTTOM OF CHASSIS FRAME RAIL TO CENTER OF AXLE HOUSING.

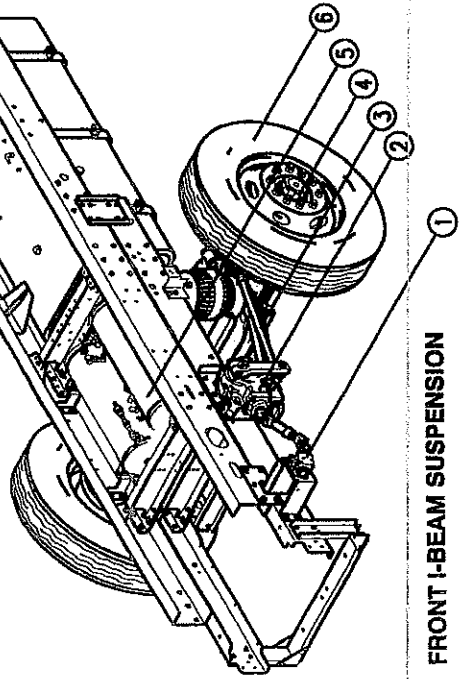
**REAR AXLE W/INDEPENDENT FRONT SUSPENSION:**

8.25" FROM BOTTOM OF CHASSIS FRAME RAIL TO CENTER OF AXLE HOUSING.

**K2 SERIES**  
**MOTORHOME CHASSIS**



INDEPENDENT FRONT SUSPENSION (IFS)



FRONT I-BEAM SUSPENSION



**SPARTAN MOTORS CHASSIS, INC.**

1000 REYNOLDS RD. • CHARLOTTE, MI 48613

MOTORHOME CUSTOMER SERVICE  
1-800-543-4277

VISIT US ON THE WEB @:  
[www.spartanmotors.com](http://www.spartanmotors.com)

**CHASSIS RIDE HEIGHT**

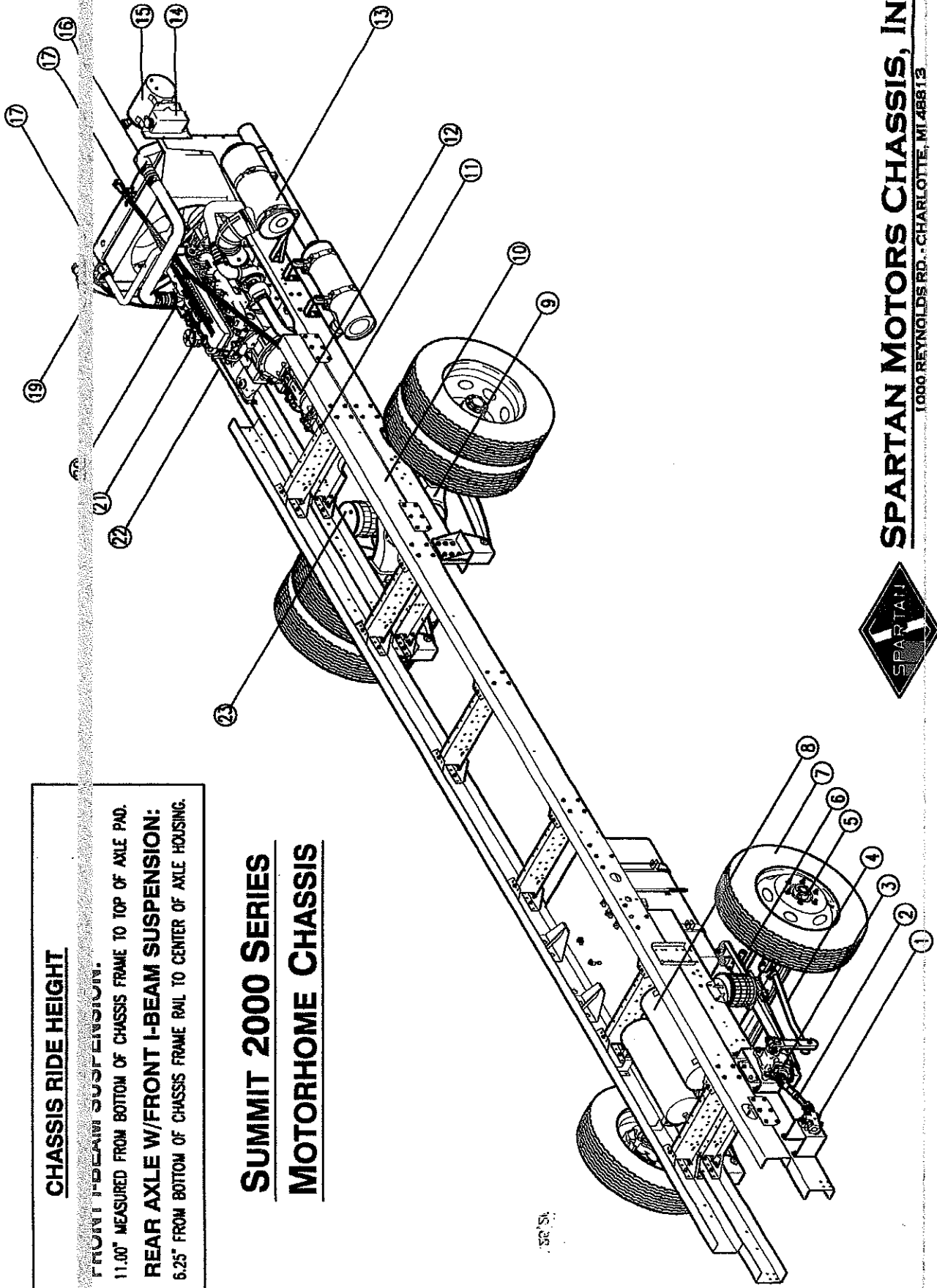
**FRONT I-BEAM SUSPENSION:**

11.00" MEASURED FROM BOTTOM OF CHASSIS FRAME TO TOP OF AXLE PAD.

**REAR AXLE W/FRONT I-BEAM SUSPENSION:**

6.25" FROM BOTTOM OF CHASSIS FRAME RAIL TO CENTER OF AXLE HOUSING.

**SUMMIT 2000 SERIES**  
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**CHASSIS RIDE HEIGHT**

**I-BEAM DIMENSION:**

10.25" MEASURED FROM BOTTOM OF CHASSIS FRAME TO TOP OF AXLE PAD.

**INDEPENDENT FRONT SUSPENSION (IFS) :**

16.125" FROM CENTER OF UPPER SHOCK EYE TO CENTER OF LOWER SHOCK EYE.

**REAR AXLE W/FRONT I-BEAM SUSPENSION:**

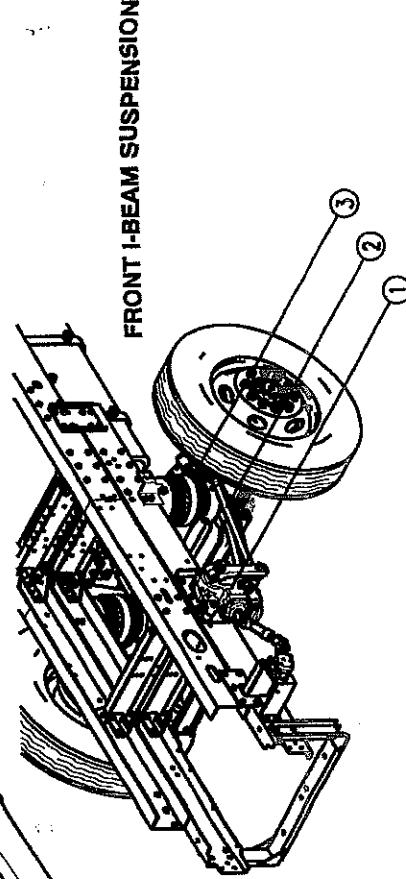
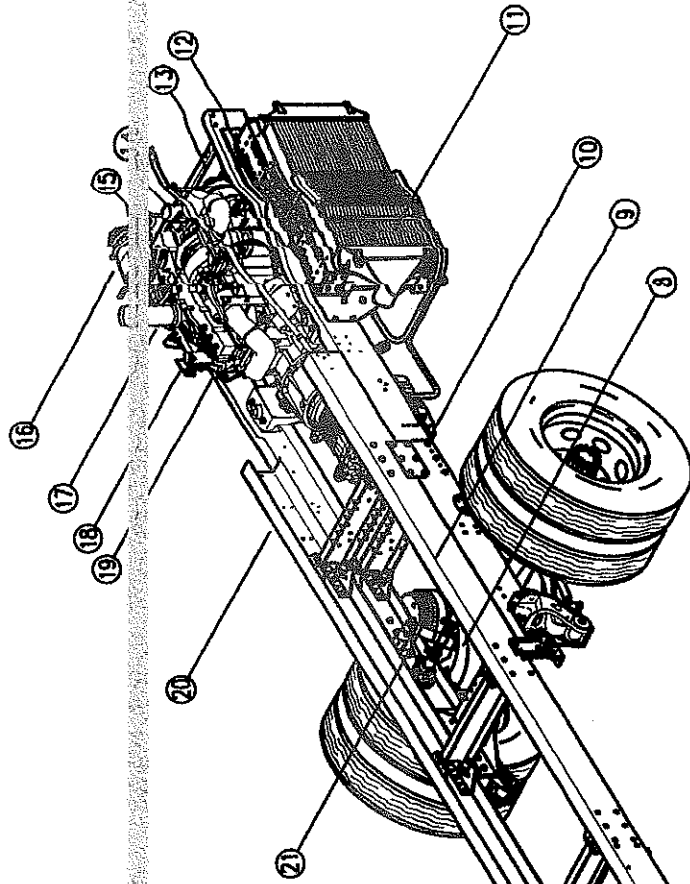
8.25" FROM BOTTOM OF CHASSIS FRAME RAIL TO CENTER OF AXLE HOUSING.

**REAR AXLE W/INDEPENDENT FRONT SUSPENSION:**

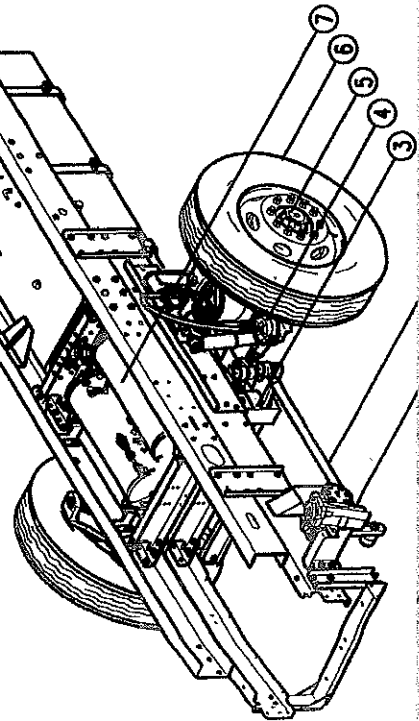
8.25" FROM BOTTOM OF CHASSIS FRAME RAIL TO CENTER OF AXLE HOUSING.

**MOUNTAIN MASTER**

**MOTOR HOME CHASSIS**



FRONT I-BEAM SUSPENSION



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*No grease fitting per spartan (wves) 9/10/02*  
 INDEPENDENT FRONT SUSPENSION (IFS) 1:25 05 14