

**INSTALLATION INSTRUCTIONS
FOR
SPARTAN SUMMIT CHASSIS 1999 THRU 2001**

PARTS NEEDED:		2-1-02
41-230	SAFE-T-PLUS unit (Blue)	C
S-103K2	Mounting Hardware Kit consists of:	
	55-103-6 Anchor Bracket	
	55-206 Tie Rod Bracket	
	12-38-1500K 3/8 X 1-1/2" U-Bolt Kit	

Ensure front-end alignment of your vehicle prior to installing SAFE-T-PLUS. Thoroughly clean the section to tie rod before attaching bracket.

- Step 1. Set front wheels of vehicle to a straight-ahead position. This is **IMPORTANT**. Later adjustment of the Tie Rod Bracket may be avoided if front wheels are set perfectly straight.
- Step 2. Remove nuts from front axle passenger side spring rear U-Bolt. Install 55-103-6 and re-tighten nuts securely. Install large end of unit to top of Anchor Bracket. Align holes and insert one of the 3/4" bolts provided, using a flat washer on the opposite side of the unit eyelet from the bracket.
- Step 3. Install 3/4" locknut to mounting bolt and tighten with a wrench to 80-90 foot pounds of torque.
- Step 4. Install Tie Rod Bracket to the bottom of tie rod on the driver's side using the 3/8 X 1-1/2" U-Bolts.
- Step 5. Attach the unit to tie rod by sliding Tie Rod Bracket to align the nearest 3/4" hole in the bracket with unit eyelet on small end. Insert 3/4" bolt provided through aligned holes. Using a flat washer on opposite side of unit eyelet, fasten locknut and tighten to a point allowing the unit eyelet to easily rotate around mounting hole.
- Step 6. Rotate Tie Rod Bracket around tie rod so that the small diameter end of the SAFE-T-PLUS unit is approximately 1/2" lower than the large end of the unit.
- When positioned, tighten the four (4) U-Bolt nuts to 25-35 foot pounds of torque while maintaining an even amount of threads extending past each nut.
- Step 7. Tighten 3/4" bolt & locknut on the Tie Rod to 80-90 foot pounds of torque after tightening U-Bolts.

Step 8. Check to be sure installed unit clears all other parts of vehicle by turning steering wheel to both extremes right and left positions. If unit scrapes or binds at any point, review these instructions and make necessary corrections by rotating unit on the tie rod to obtain necessary clearance.

Step 9. **ROAD TEST & ADJUSTMENT PROCEDURES:** To ensure proper alignment and installation of the SAFE-T-PLUS unit, the vehicle should be road tested. Take along a socket wrench to fit the U-bolts and Bolt on the Tie Rod Bracket. While driving on a straight stretch of road, vehicle should easily follow a straight course, if not, adjustment is necessary. Drive vehicle on a perfectly straight and level road. Then mark the position of your steering wheel by placing a piece of masking tape at the 12:00 o'clock position. When you return to your maintenance location, position steering wheel with tape at 12 o'clock and then turn the engine off. The power steering should hold the steering wheel exactly in place. If the tape does not remain at 12:00 o'clock, have someone hold it there until the adjustment is complete.

Be sure you set brake before doing any adjustments. Do not use levelers to raise coach. Do not dump air bags. You want the coach at normal ride height. Loosen the large bolt that holds the SAFE-T-PLUS to the Tie Rod Bracket 2 or 3 turns. Loosen the 4 nuts on the 2 U-Bolts. Allow unit to self-center, (Frequently this movement is not noticeable). Once this is completed, retighten the bolt holding the SAFE-T-PLUS to the Tie Rod Bracket and retighten the 4 nuts on the U-Bolts and test drive again. **Repeat this step if necessary until vehicle will hold a straight line.** If you need additional assistance, please call us toll-free at (800) 872-7233.