

**INSTALLATION INSTRUCTIONS  
FOR  
F-150 GAS, F-250 & F-350 DIESEL (W/ 1-1/8" TIE ROD) 1985-1989  
AND  
F-350 DIESEL (W/ 1-1/8" TIE ROD) 1990-1998**

PARTS NEEDED:

3-18-02 DH

<b>31-140</b>	<b>SAFE-T-PLUS</b> unit (Silver)
<b>F-323K13</b>	<b>Mounting Hardware Kit</b> consists of:
25-323	Anchor Bracket
25-404	Tie Rod Bracket
12-516-1125K	5/16 X 1-1/8" U-Bolt Kit
10-3-125	7/16-14 X 1-1/4" Bolt
14-300	7/16-14 Hex Nut
16-100	1/2 X 1-1/2 X 1/4" Spacer

Anchor Bracket 25-323 mounts on the driver's side of the vehicle, just behind the sway bar bracket, using two (2) existing holes in frame, with spacers and bolts provided (see sketch).

Tie Rod Bracket 25-404. Using U-Bolts provided, install Tie Rod Bracket on tie rod (see sketch).  
**DO NOT TIGHTEN AT THIS TIME.**

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. Place Anchor Bracket behind the sway bar bracket on the left (driver's side) of vehicle, using 7/16" bolts and spacers supplied. (Spacers go between bracket & frame).
- Step 3. Attach Tie Rod Bracket to SAFE-T-PLUS unit and tie rod (see sketch).
- Step 4. Install SAFE-T-PLUS unit large end to Anchor Bracket and small end to Tie Rod Bracket using rubber bushing kit provided.

**NOTE:**      **All grommets are to be tightened until they bulge over the edge of the steel caps or until they are approximately 1/4" thick.**

- Step 5. 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 unit.

When positioned, tighten the four (4) U-Bolt nuts to 20-25 foot pounds of torque while maintaining an even amount of threads extending past each nut.

Step 6. 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 7. **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 on the tie rod. While driving on a straight stretch of road, vehicle should easily follow a straight course, if not, adjustment is necessary. To adjust, hold steering wheel in a straightforward position, stop vehicle, and set brakes. Loosen nuts on tie rod U-bolts and allow unit to self-center. (Frequently this movement is not noticeable). Retighten nuts and test drive again. Repeat this step if necessary until vehicle will hold a straight line. **Note:** Continue to hold the steering wheel in a straightforward position until the adjustment has been completed. Otherwise the wheels will return to the pulling position instead of the straight-ahead position desired. If you need additional assistance, please call us toll-free at **(800) 872-7233**.

