

SAFE T PLUS[®]
Steering Control

MY SAFE T PLUS[®] UNIT

MODEL NO.

SERIAL NO.

INSTALLATION INSTRUCTIONS FOR MOUNTING HARDWARE KIT F-217K3.5

This kit supports installation of SAFE T PLUS[®]:



MODEL # 41-140 (RED)



MODEL # 41-180 (WHITE)



MODEL #41-230 (BLUE)

STOP KEEP INSTRUCTIONS IN VEHICLE AT ALL TIMES STOP

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9/10/2020

IMPORTANT SAFETY INFORMATION



Before installing your SAFE T PLUS® unit:

- ✓ **Be sure that vehicle is able to maintain a straight-ahead trajectory when driven on a straight and level stretch of road, without drifting left or right. If vehicle tends to drift, you might need to service vehicle alignment in accordance with vehicle manufacturer's specifications.**

- ✓ **Check the condition of vehicle tires. Be sure tires are properly inflated and exhibit normal wear. Correct deficiencies if noted.**



Installing the SAFE T PLUS® unit requires gaining access to the front underside of your vehicle. Be careful when working underneath your vehicle.



Use all tools, safety items, and recommended items in accordance with product manufacturer's instructions.

SAFE T PLUS® WARRANTY INFORMATION

Our team is committed to producing the highest quality Steering Control devices to all our customers. So, in the event that anything is wrong or incorrect with your SAFE T PLUS® Steering Control product(s), we will work hard to make it right for you, and fast.

Any SAFE T PLUS® products damaged in shipping (when ordered directly from SAFE T PLUS® Factory) or defective products must be returned directly to SAFE T PLUS® in the original box or comparable cardboard packing securely protecting the product, freight prepaid. A Return Goods Authorization Number (RGA#) must be attained first, and included with the product.

Submit a warranty request claim by completing the below Warranty Request Form or by contacting SAFE T PLUS® at (770) 322-8727 or support@safe-t-plus.com.

Limited Lifetime Warranty

SAFE T PLUS® for Recreational Vehicles (Class, A, B, C and Towable Vehicles) – Lifetime Warranty

SAFE T PLUS® Steering Control products installed on any Recreation Vehicle carries a Limited Lifetime Warranty against defects in material and workmanship. This Warranty only applies to the original purchaser. If any SAFE T PLUS® products are found to be used commercially, or is structurally altered (including mounting brackets, bolt kits, washers, spacers, nuts, etc.), or when non-factory or non-genuine SAFE T PLUS® parts are used, or is damaged as a result of improper installation or abnormal use, warranty and liability will be voided.

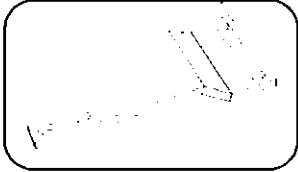
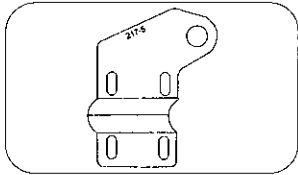
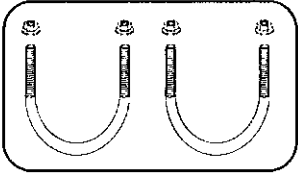
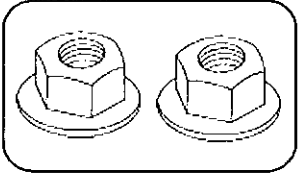
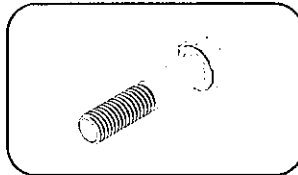
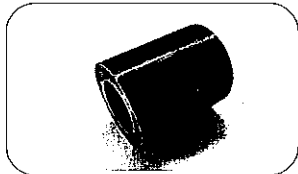
Obligation under this warranty shall subject only to the original purchaser from the manufactured date of the product. The manufacturer will replace any SAFE T PLUS® unit, mounting brackets, and/or bolt kits that are found to be defective as a result of the manufacturer's material and/or workmanship.

All warranty considerations must receive a Returned Goods Authorization (RGA#) number assigned from the manufacturer first. Customer may then ship the SAFE T PLUS® unit or mounting brackets to the Tallapoosa, Georgia factory location freight prepaid (i.e. at customer's expense). Warranty Replacement units or mounting brackets, bolt kits will be returned to customer at SAFE T PLUS® expense (freight prepaid for return) by regular Ground Shipping Service.

Warranty Disclaimer

This warranty will not apply where a SAFE T PLUS® unit, mounting brackets, and mounting bolts and nuts have been altered from SAFE T PLUS® original construction in any way so as, in our judgment, to affect its stability, functionality, or longevity which has been subject to misuse, negligence, or accident. This warranty does not cover any other component related to a vehicle's steering assembly, front end suspension, or chassis. Further, this warranty does not include any manufacturer responsibility for any incidental or consequential damages resulting in the use of SAFE T PLUS® products. If warranty applies, manufacturer will repair or replace, at their discretion, the SAFE T PLUS® products or any part or component that is deemed defective.

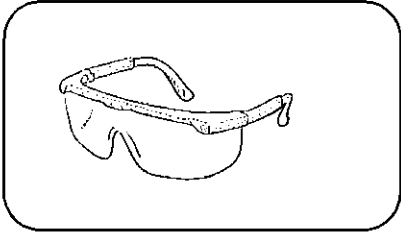
KIT CONTENTS & REQUIRED FASTENERS

NAME AND DESCRIPTION	PART NUMBER	QUANTITY
 Anchor Bracket	55-105-6	1
 Tie-Rod Bracket	55-217-5	1
 U-Bolt Kit	12-38-1875K <i>(contains two 3/8 x 1-7/8-inch U-Bolts, and four 3/8-16 flanged lock nuts)</i>	1
 3/4-16 Stover Lock Nuts <i>(contained in your Safe T Plus® unit box)</i>	14-800	2
 4 1/2" Bolt	10-8-480	1
 1 1/2" Spacer	16-200	1

SAFETY & OTHER RECOMMENDED ITEMS

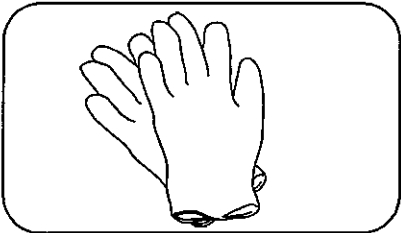
NAME AND DESCRIPTION

PURPOSE



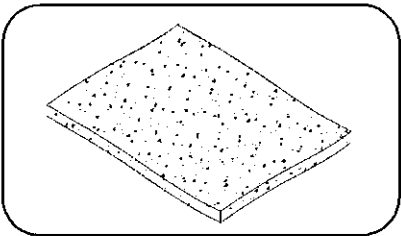
Safety Glasses

Protect eyes from debris while installing SAFE T PLUS[®].



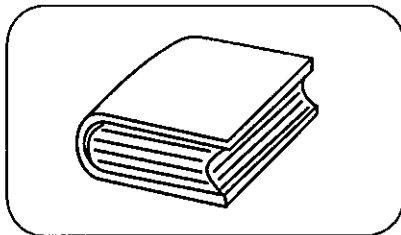
Nitrile Gloves

Protect hands from dirt and lubricants during SAFE T PLUS[®] installation.



Scotch Brite Pad

Remove dirt and debris from tie rod.



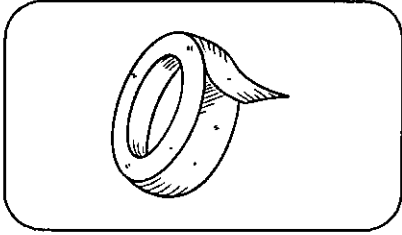
Vehicle Operator's Manual

Reference source.

SAFETY & OTHER RECOMMENDED ITEMS (cont'd)

NAME AND DESCRIPTION

PURPOSE



Painter's Tape

Apply to steering wheel and dashboard for center steering alignment purposes.

SAFE T PLUS® INSTALLATION

- Using a socket wrench with a 1-1/8-inch socket, remove two **existing nuts (and washers if installed)** from axle spring rear **U-bolt** on driver's side of front axle assembly. If **nuts** are difficult to remove, apply penetrating oil lubricant and re-attempt removal using a breaker bar or impact wrench for assistance (*Figure 1*).

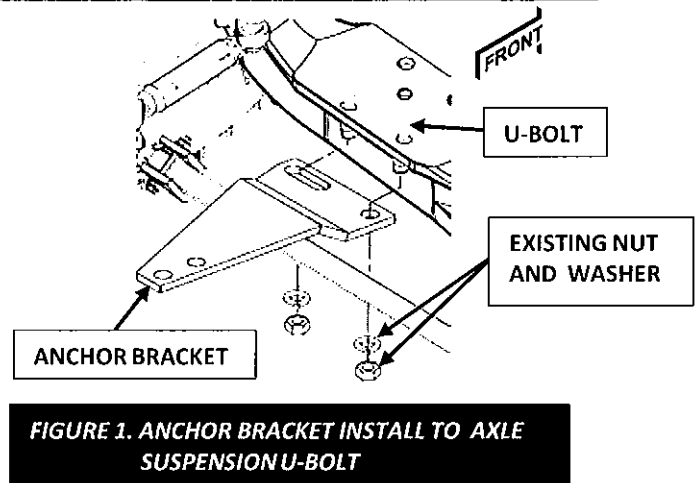


FIGURE 1. ANCHOR BRACKET INSTALL TO AXLE SUSPENSION U-BOLT

NOTE

When installing **Anchor Bracket** in the following step, ensure **Anchor Bracket** is mounted angled up from the mounting position and goes above the vehicle tie-rod. The slanted 45 degree angle side of **Anchor Bracket** should be facing the driver's wheel for proper mounting of **SAFE T PLUS®** unit.

- Using a torque wrench with a 1-1/8-inch socket, install and secure **Anchor Bracket** to existing axle spring rear **U-bolt** with two existing **nuts (and washers if previously installed)** that were removed in step 2, and torque **nuts** to a recommended **250 foot-pounds**. **Be sure to double check your vehicle manufacturer torque specifications of nuts.**
- Remove debris from Tie-Rod with Scotch-Brite pad.
- On passenger's side of Tie-Rod, place **Tie-Rod Bracket** on bottom of the Tie-Rod. With **U-Bolt** threads facing down, loosely install **Tie-Rod Bracket** onto Tie-Rod with two **U- Bolts** and four **Flanged Lock Nuts**.

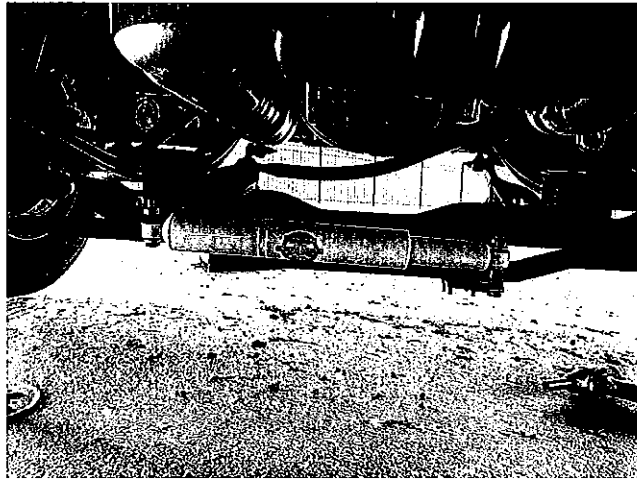
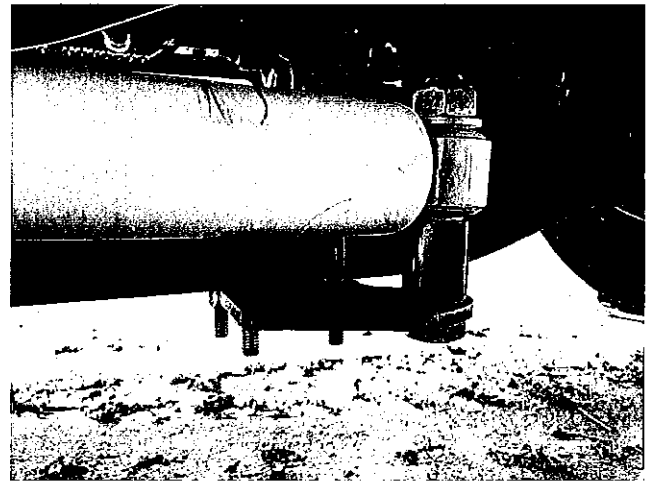
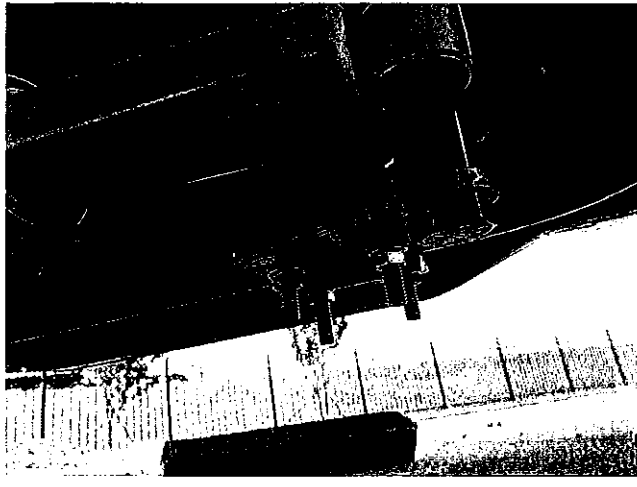
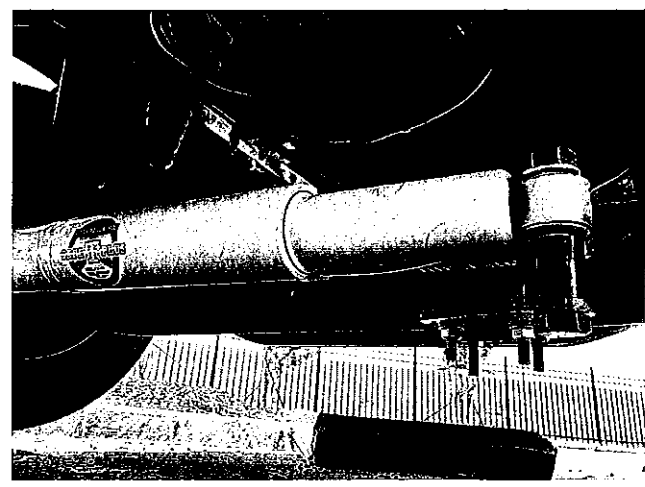
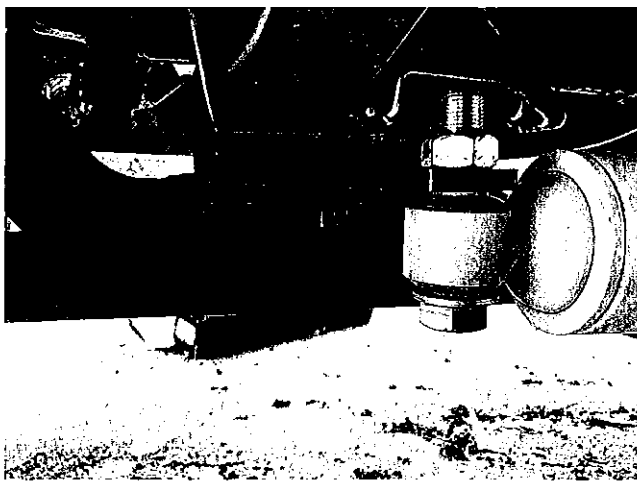
SAFE T PLUS® INSTALLATION

WARNING

- OVER TIGHTENING OF TIE-ROD BRACKET FLANGED LOCK NUTS CAN CAUSE IMPROPER FIT AND POTENTIAL FAILURE OF U-BOLTS. IF YOU EXCEED 20 FOOT-POUNDS OF TORQUE ON TIE-ROD BRACKET FLANGED LOCK NUTS, TIE-ROD BRACKET WILL BEND CAUSING U-BOLTS TO FLARE OUT. STOP INSTALLATION IMMEDIATELY AND CALL SAFE T PLUS® TO ORDER A NEW TIE-ROD BRACKET AND U-BOLT KIT. DRIVING WITH BENT TIE-ROD BRACKET AND U-BOLTS CAN CAUSE A SERIOUS DRIVING ACCIDENT.
- A RUBBER Mallet IS REQUIRED TO GENTLY TAP U-BOLTS INTO PLACE IN THE FOLLOWING STEP. IF U-BOLTS DO NOT REQUIRE GENTLE TAPPING INTO PLACE, CONTACT SAFE T PLUS® CUSTOMER SERVICE TO ENSURE THAT YOU HAVE THE CORRECT PART. PROPER FITTING U-BOLTS ARE A SAFETY REQUIREMENT.

9. Rotate **Tie-Rod Bracket** assembly until SAFE T PLUS® unit is parallel to Tie-Rod and is able to move freely without potential contact with any other parts on vehicle. Using a torque wrench with a 9/16-inch socket, torque four Flanged Lock Nuts to **20 foot pounds**.
10. Torque **Tie Rod Bolt** to **Tie-Rod Bracket** to **120-130 foot pounds**.
11. If vehicle is raised, lower vehicle to the ground with full weight on wheels in accordance with vehicle manufacturer's instructions.

SAFE T PLUS® INSTALLATION PHOTOS F-217K3.5



ROAD TEST & CENTERING (cont 'd)

5. For the person outside of the vehicle, gain access to SAFE T PLUS[®] unit. Using a socket wrench with a 9/16-inch socket, and loosen **Flanged Lock Nuts** on Tie-Rod Bracket **U-Bolt** and allow the SAFE T PLUS[®] unit to freely move to its centered position. Once the SAFE T PLUS[®] unit rests at its centered position, using a torque wrench with a 9/16-inch socket, torque Tie-Rod Bracket **Flanged Lock Nuts** to **20 foot pounds** (*Figure 3*).
6. Repeat road test until vehicle is able to maintain a straight trajectory. If centering the SAFE T PLUS[®] unit requires more than 2 or 3 attempts, please contact our technical support team at (770) 322-8727 for further assistance.

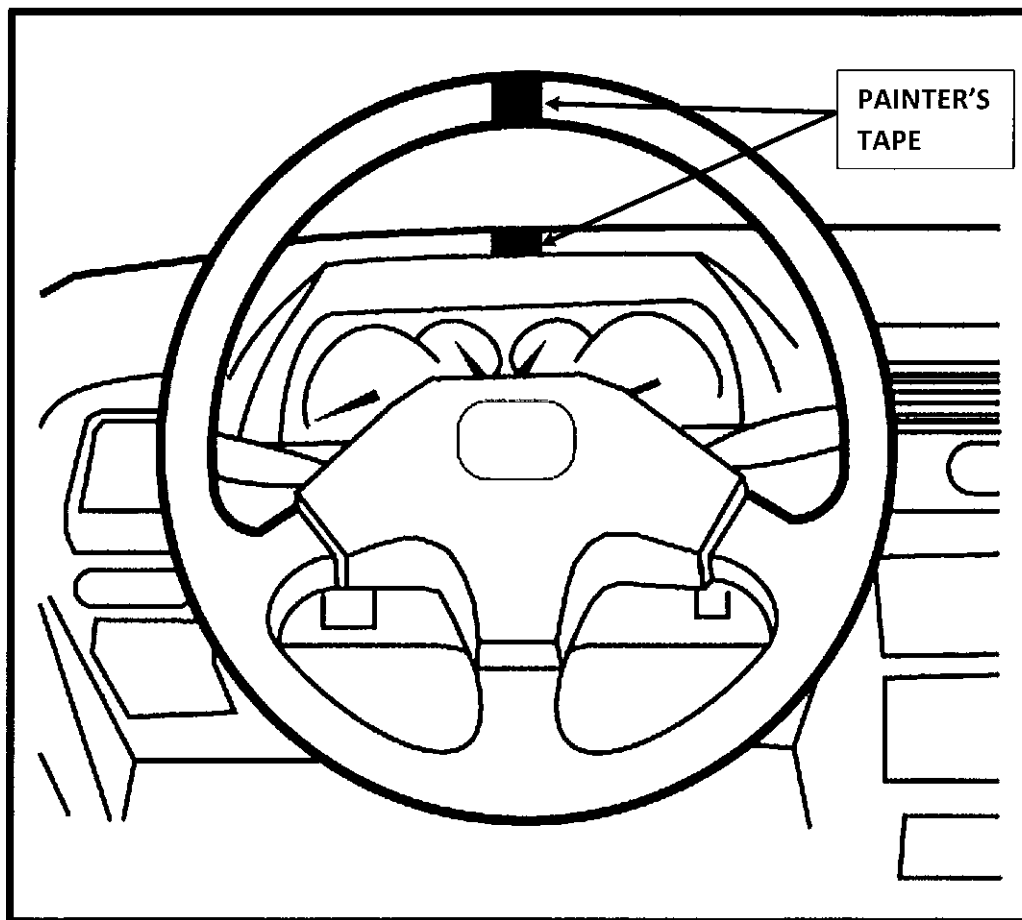


Figure 6. Tape Application to Steering Wheel and Dashboard

SAFE T PLUS[®]

Steering Control

*If vehicle fitted with SAFE T PLUS[®] unit is involved in an accident,
please contact us immediately as your SAFE T PLUS[®] Steering Control
unit and assembly could be damaged.*

United Safety Apparatus, Inc

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