

# Technical Service Information



TSI-04-05-01

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**Date:** July, 2004

**Subject File:** STEERING

**Subject:** Adjustment Procedure for Tilt Only Steering Column

Model: CE200

Model: CE300

Model: 3200

Model: 3300

Model: 4200

Model: 4300

Model: 4400

Model: 7300

Model: 7400

Model: 7500

Model: 7600

Model: 8500

Model: 8600

Unit Code: 05708

## DESCRIPTION

### NOTICE

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World Leadership in Directional Control Technology

## **Steering Column Tilt Retention Adjustment** **Service Bulletin**

Tilt Only Model Steering Column  
Ultra 2000 Series

This bulletin describes the proper procedure for adjusting the Tilt Retention.

The following steps outline how to adjust the Tilt Retention or "Holding Force".

These instructions **MUST** be read thoroughly before this procedure begins so the equipment, tools, etc. will be available as needed to effectively adjust the Tilt Retention of the Steering Column, without causing damage to it or causing injury to yourself. This procedure normally takes .5 of an hour to complete.

### **Parts List**

Quantity	Part Number	Description
1	TIB20092603	Instructions

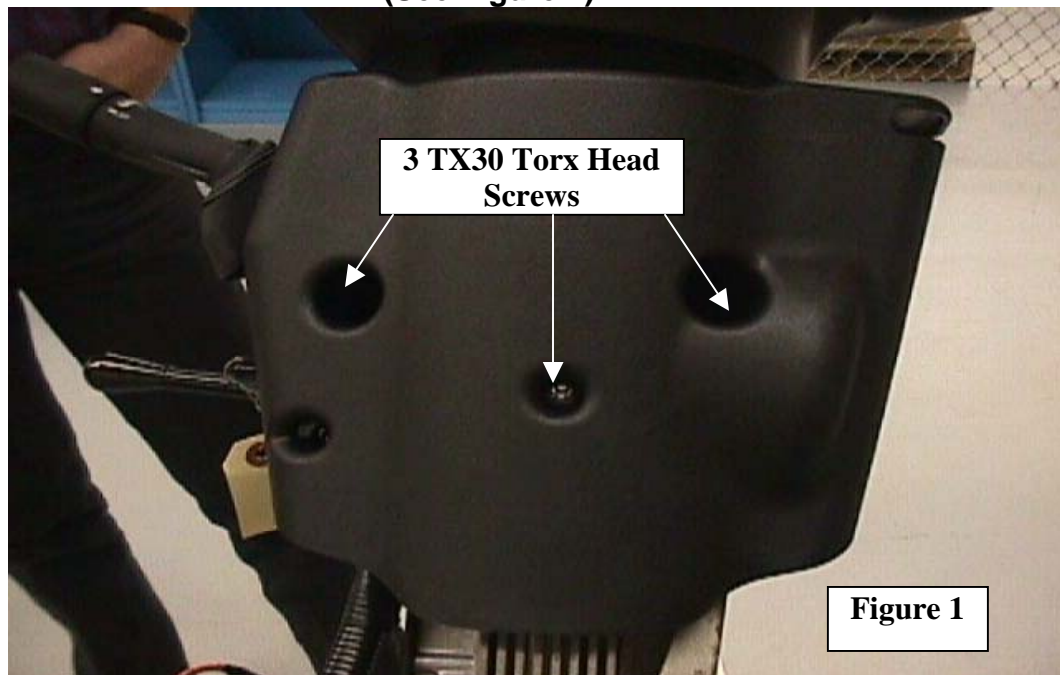
### **Tool List**

Quantity	Description
1	TX30 Torx Head Driver 1/4" Inch Drive
1	1/4" Drive Ratchet
1	4" Adjustable (Crescent) Wrench or Slip Joint Pliers
1	7 MM Deep Well Socket 1/4" Drive

**Steering Column Cover Removal Procedure:**

Step 1) Remove the Lower Steering Column Cover by removing the three TX30 Torx Head Screws that attach and hold the Covers together. Allow the Cover to hang from the Wiring Harness that passes through it.

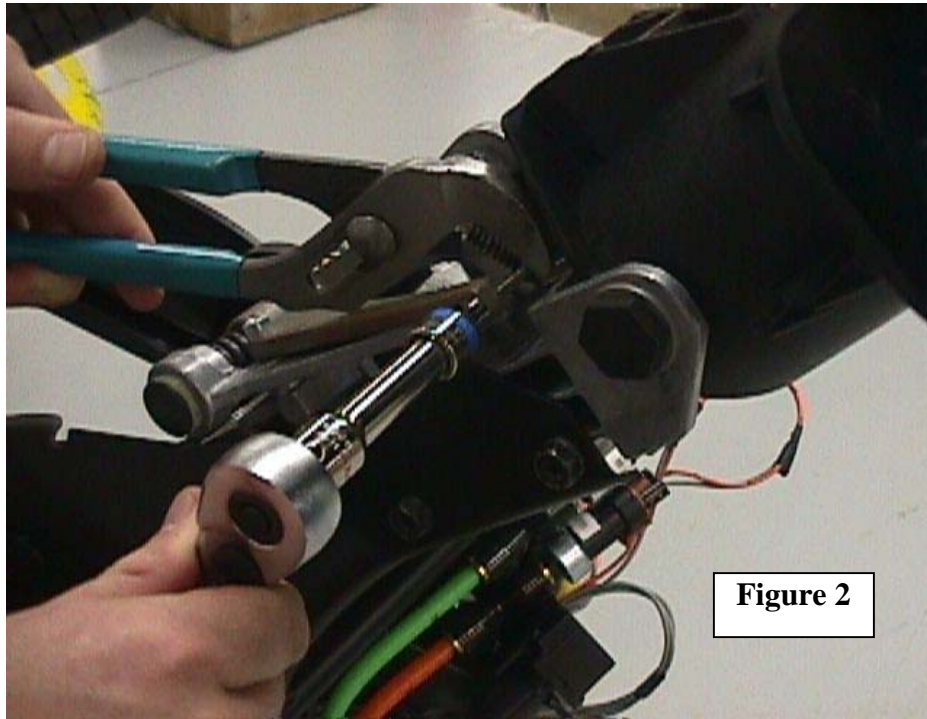
**(See Figure 1)**



Step 2) Use the 4" Adjustable Wrench to keep the Cable from turning while using the 7MM Deep Well Socket and ¼" Drive Ratchet to draw the Nut flush to the TILT Arm.

**NOTE: Do not take the Nut past ¼ turn after contact with the Tilt Arm Mechanism.**

(See Figure 2)



**NOTE:** Check for proper setting on the Nylon Insert Lock Nut by applying a load of 225Lbs. to the bottom of the Steering Wheel Rim in a downward direction, the Column should not move. When unlocked the Column should Tilt with 35Lbs. of force.

**Adjustment Procedure:**

- Step 1) If the Column moves in the tilt locked position turn the Nylon Insert Lock Nut **counter clockwise** 1/8 turn at a time until the column will carry a 225Lb. Load when applied to the bottom of the Steering Wheel Rim in a downward direction.
- Step 2) If the Column tilts with too much force in the unlocked position then release the Tilt Lever and tighten the Nylon Insert Lock Nut 1/8 turn at a time until the 35Lb. tilt force is met.
- Step 3) Re-install the Upper and Lower Covers on the Steering Column.

**NOTE:** Do NOT over tighten the three TX30 Torx Head Screws; they should be tightened until the covers are no longer loose against each other; no more as the plastic may strip.



### CRITICAL CHECKING PROCEDURE

*Place a check mark in the box in front of each check as they are performed.*

- ☐ Tilt and Telescope the Column to ensure the Column still functions properly.

**NOTE: Some Models Only Tilt. They won't Telescope.**

- ☐ Pull up and push down on the Steering Wheel to ensure the shaft and Retaining Rings are seated properly.
- ☐ If there is a Horn, test it to ensure it still functions properly.
- ☐ Turn the Steering Wheel from full left to full right, lock to lock, to ensure the Column rotates freely. While rotating the Steering Wheel, feel for any catches, binding, or any other abnormalities.

**NOTE:** If there are any abnormalities felt as the Steering Wheel is turned, follow the Manufacturer's removal and replacement procedures to remove the Steering Column and replace it with a new one. **DO NOT** attempt to drive the vehicle with the malfunctioning Steering Column in it!

**For: Steering Column Field Service Technical Support call 1-800-773-1440.**

B	5/5/04	JK	DAC/Cust	Revised Tool List: Added Slip Joint Pliers
A	4/6/04	JK	DAC	Release for Production
1	2/19/04	JK	DAC/Cust	Updated Load Information
0	10/28/03	JK	JK	Released
Rev. Let.	Date	Signature	Approval	Description