

PARTS & SERVICE NEWS

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SUBJECT: TIE ROD TORQUE SPECIFICATIONS AND MAINTENANCE

PURPOSE: To inform the field of factory requirements.

APPLICATION: Komatsu Electric Drive Dump Trucks:
930E: AFE48 & Up, A30019, A30026 & Up;
830E: AFE50-A & Up, A30544 & Up;
730E: AFE47 & Up, A30079 & Up

FAILURE CODE: 4A10Z9

DESCRIPTION: Tie Rod Inspection and Torque Procedure

The tie rod has been installed with capscrews (4, Figure 1) at the rod end in order to allow toe adjustments. Komatsu requires that tie rod capscrews (4) be inspected and tightened at each 250 hour maintenance interval. All tie rod assemblies are assembled with 3/4" - 10NC X 4" G8 capscrews (VN9140).

Model	Part Description	Part Number
930E-2	Tie Rod Assembly	EH4371
930E	Tie Rod Assembly	ED0575
830E	Tie Rod Assembly	EF7974
730E	Tie Rod Assembly	EF7595

TIE ROD INSPECTION AND TORQUE PROCEDURE

1. When inspecting this area or making adjustments, shut down the engine and the turn the keyswitch to the "OFF" position.
2. After the engine has been shut down, allow at least 90 seconds for the accumulators to bleed down.
3. Turn the steering wheel to the left and to the right several times to relieve the steering accumulator pressure.
4. Block front and back of rear wheels.
5. Tighten capscrews (4) and locknuts (5) to 310 ft.lbs.(420 Nm) torque.

Note: 830E shop manuals which specify capscrews (4) and locknuts (5) to be tightened to 208 ft.lbs. (282 Nm) torque are being revised to 310 ft.lbs.(420 Nm) torque.

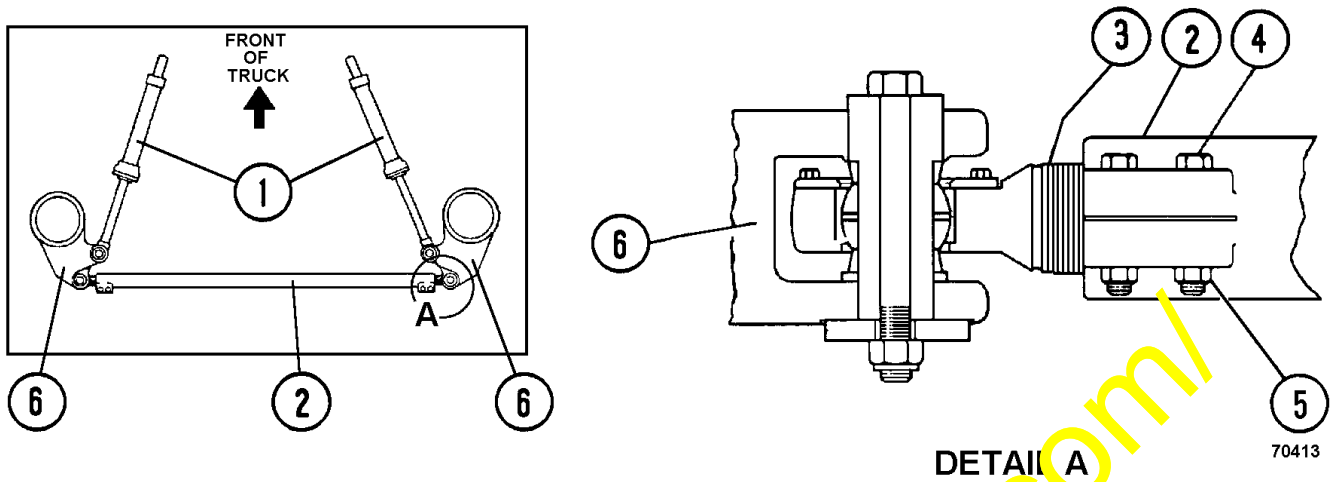


FIGURE 1. TYPICAL TIE ROD ASSEMBLY

- 1. Steering Cylinder
- 2. Tie Rod Assembly
- 3. Tie Rod End
- 4. Cap screw
- 5. Locknut
- 6. Spindle Arm

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