

March 1995

TOPIC: STEERING HOSE COLLAPSE

MODELS

AFFECTED: ALL CTR RIDERS

Field reports have indicated the steering hose is collapsing, causing improper steering of the machine. A double u-joint system has been developed to replace the steering hose. The following parts will need to be ordered.

Qty.	Part No.	Description
1	21834	Double Universal Joint
2	44633	Steering Tube Bushing
2	25011-16	Bolt, 5/16-18 x 2"
2	25057	Nut, 5/16-18 Nylon Lock
2	25061-3	Set Screw, 5/16-18 x 3/8"

ATTENTION

If any customer is complaining of difficult steering with serial numbers 101-366, you must first check the number of teeth on the small steering sprocket located under the center of the axle. If the sprocket has 12 teeth, the following parts must also be ordered.

Qty.	Part No.	Description
1	44321	Steering Sprocket Shaft
1	44608	Center Mount Assembly

Installation Instructions

NOTE: If customer's machine has 10 tooth sprocket or serial number 367 & up, follow steps 1-9 & steps 18-27.

1. Park the machine on a flat, level surface and apply the parking brake.
2. Disconnect the negative (-) cable from the battery.
3. Unplug the wire harness under the front cowl and remove the front cowl.
4. Remove the steering tube assembly from the steering hose.
5. Remove the steering wheel shaft from the tube and discard collar.
6. Remove and discard steering hose.
7. Remove and discard the bearings from the steering tube.
8. Deburr I.D. of steering tube and press in new bushings.



9. Bolt the steering tube to the machine, sliding the tube to the highest position in the slots and tighten bolts.
10. Loosen the chain at the turnbuckle enough for the chain to work free from the steering shaft sprocket.
11. Remove the split collar from the shaft.
12. Remove the steering shaft sprocket and bearing assembly from the axle.
13. Install the new center mount assembly in the axle with the short side of the plate towards the front of the machine. If necessary, you may need to grind or file the opening in the axle to accept the new assembly.
14. Reinstall adjustment block and hardware.
15. Install the new steering sprocket shaft and split collar remove in Step #11. Tighten the split collar with the sprocket flush against the center mount and grease.
16. Reinstall the chain on the sprocket with the tires straight forward. The turnbuckle should be centered but loose.
17. ADJUSTMENT: Toe wheels in 1/16" to 1/8". Place a 2 X 6 board on the outside edge of the tire to measure. Use the adjustment block to toe wheels in and the turnbuckle to toe wheels out. DO NOT over tighten chain.
18. Position double U-joint where steering hose was removed.
19. Apply a light coat of grease to the steering wheel shaft and slide it through the steering tube into the U-joint.
20. On the lower U-joint, align the set screw (over keyway) and 1/4" hole in steering sprocket shaft and tighten set screw.
21. Drill a 5/16" hole in the other set screw hole in the U-joint, through the steering shaft and out the backside of the U-joint. Install the 5/16-18 x 2" bolt and 5/16-18 nylon lock nut and tighten.
22. Check that both the tires and steering wheel are straight forward.
23. Slide steering wheel shaft up until the end of the shaft is flush with the inside of the U-joint collar and tighten set screw. (Note: Set screw will not line up with the hole in the steering wheel shaft.)
24. Repeat Step #21.
25. Grease U-joints.
26. Lift the front of the machine and pivot the axle up and down, checking for smooth operation and striking both stops.
27. Lower machine and reassemble. For earlier machines with the mount tab welded to the steering tube, the front lower cowl mount holes may have to be drilled to fit.

1-1/2 hours labor will be paid to install the U-joint system. An additional 1 hour will be paid to install the shaft and bearing assembly.