

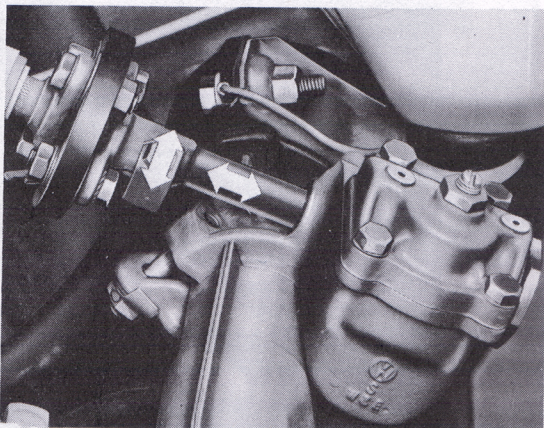
22 FRONT AXLE

To check and adjust worm:

1. Check the worm spindle for axial play as indicated in Fig. 9-4.

NOTE —

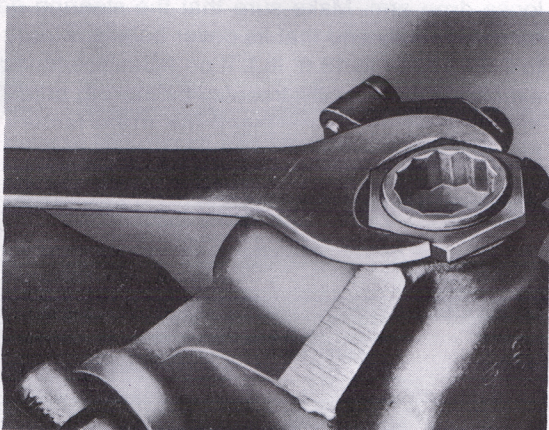
Although some of the illustrations show the steering gearbox installed on a Type 3 VW front axle, the gearbox is the same as that in the Beetle and the Karmann Ghia.



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Fig. 9-4. Worm play being checked. Grasp the coupling and turn the worm shaft as indicated by the left double arrow. Look for play in the shaft (right double arrow). If there is play, adjust the worm.

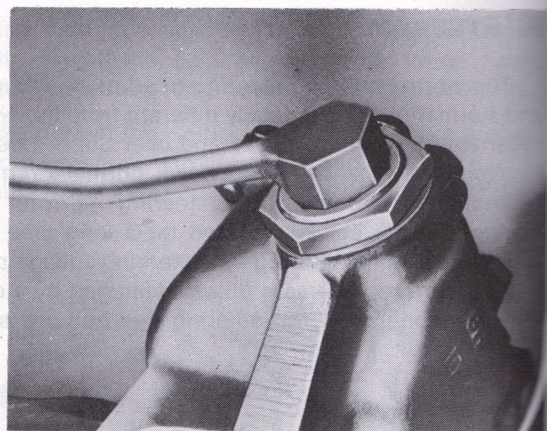
2. Turn the steering fully left to right. Loosen the worm adjuster locknut as shown in Fig. 9-5.



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Fig. 9-5. Worm adjuster locknut being loosened.

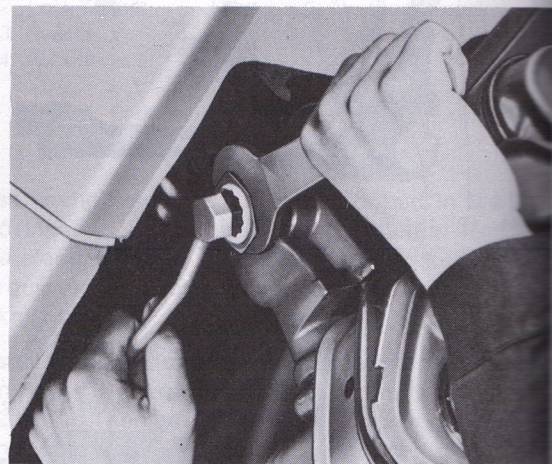
3. Turn the worm spindle, slowly tightening the adjuster as shown in Fig. 9-6. Continue tightening up to—but not beyond—the point at which play disappears from the worm shaft.



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Fig. 9-6. Special wrench inserted into worm adjuster so that adjuster can be turned.

4. Hold the adjuster in its optimum position while tightening the locknut as shown in Fig. 9-7. Then torque the locknut to 5.0 to 6.0 mkg (36 to 43 ft. lb.).



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Fig. 9-7. Locknut being tightened after worm adjustment.

5. Turn the worm spindle from lock to lock. There should be no tight spots.

CAUTION —

Tight spots indicate that the adjuster has been advanced too far. Bearing damage will result if the adjustment is not loosened.

If you cannot eliminate play by adjusting the worm, adjust the roller-to-worm setting. With the steering in its centered position, there should be no play between the roller and the worm. You can make adjustments with the car lifted, but they must be checked when the vehicle is on the ground.

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