

GROUP L STEERING

L1 Removing and refitting steering.

Fig. 1. Tools: Open ended spanner 10 mm, ring spanner 9/14 mm, socket spanner 14/17 mm, screw driver 6/10 mm, hammer, chisel, drift 8mm, center punch, plastic hammer, T-handle Allan wrench 6 mm.

Fig. 2. 1. Remove split pin from thorough bolt in universal joint and withdraw the bolt. (cotter pin pliers, open ended spanner 10 mm, ring spanner 9 mm)

Fig. 3. 2. Drive cross pin out of universal joint. (driver 8 mm, hammer)

Fig. 4. Caution: Pay attention to correct position of the bushings for the thorough bolt. When assembling make certain that the cross pin with the orifice for the thorough bolt is correctly fitted.

3. Protect the door spring shrouding with a carton cover to avoid damaging (see Group A Figure 5).

4. Slacken the four slotted-head screws on steering housing and unscrew the steering screw from steering nut by anticlockwise rotation.

Fig. 5. Caution: Steering screw and steering nut are punch-marked. When assembling make sure that the punch-marked spots are fitted together. In case they are not marked at all, mark them on dismantling.

5. Unhook return spring of accelerator pedal from frame tube.

6. Remove cotter pin at linkage end of accelerator pedal and withdraw the linkage rod. (cotter pin pliers)

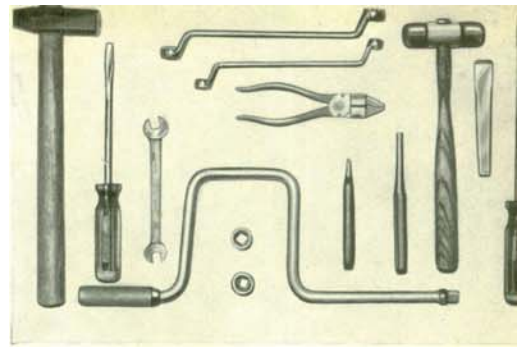
7. Depress brake pedal, remove split pin and draw out the clevis attaching bolt. (cotter pin pliers)

8. Unhook clutch pedal return spring from the frame.

9. Depress clutch pedal, remove cotter pin, withdraw the clevis bolt. (cotter pin pliers)

10. Detach steering housing from bottom plate. (socket spanner 14 mm with universal joint, on vehicles of recent construction key wrench 6)

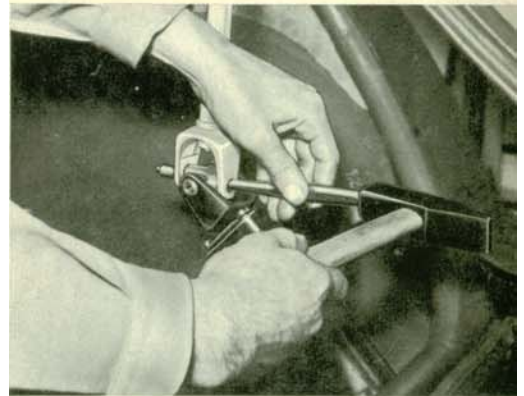
11. Press the steering housing slightly rearward and remove it upward. (see also Group A Figure 9)



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Fig. 6 12. Mark the position of steering shaft and steering intermediate arm on outer side of the shaft by means of a center punch.

Fig. 7 13. Slacken steering arm clamping screw, withdraw the steering arm. (ring spanner 14 mm)

14. Slacken three slotted-head screws securing the cover plate to steering housing and remove the plate. (screw driver 6 mm)

15. Punch-mark steering shaft and steering arm on inner side of the shaft.

Caution: When installing new parts carry out a basic adjustment of steering, as these parts are not marked (see L 10)

Fig. 8 16. Slacken clamping screw of steering arm on inner side of steering shaft. (socket spanner 14 mm)

Caution: The clamp screw must be fully removed.

17. Drive out steering shaft from inner side outwards, with the aid of a brass driver.

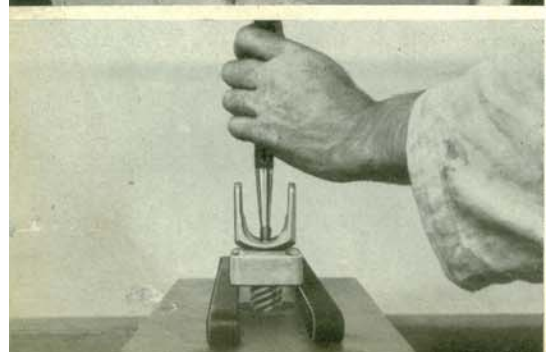
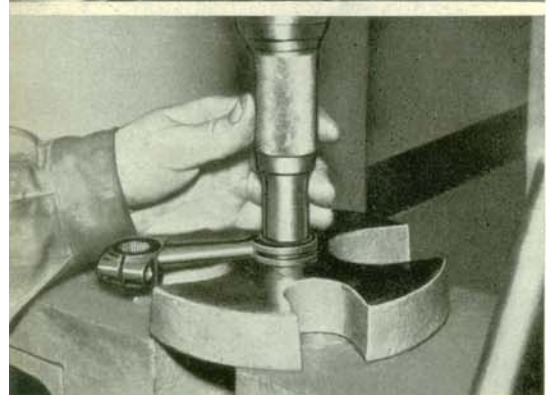
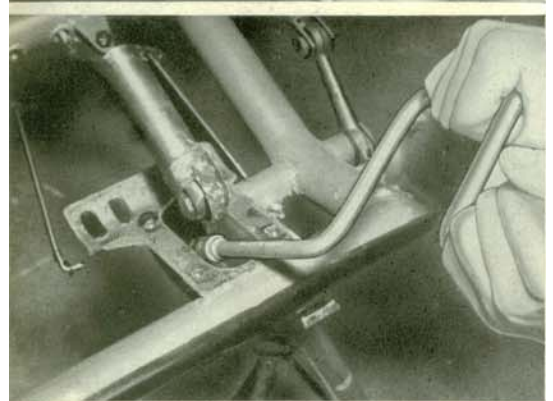
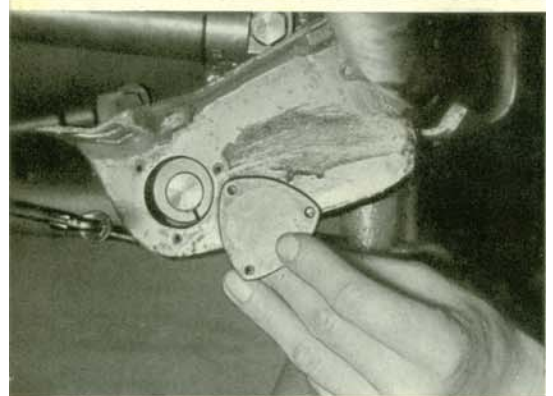
Fig. 9 18. Replace the ball bearing in the inner steering arm.

- a) Straighten bent ear of lock washer. (hammer, chisel)
- b) Discard ball bearing and fit a new one with the aid of a press.

Caution: After having pressed in place a new ball bearing clamp the spacer shims again by applying punch blows on the four points indicated on the arm.

Fig. 10 19. Replace ball bearing for the steering screw.

- a) Straighten bent ear of tab washer on steering screw lock nut. (hammer, chisel)
- b) Unscrew the nut on top of steering screw. (socket spanner 17 mm)
- c) Drive steering screw out of universal joint yoke and ball bearing. (punch, hammer)



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L 2 Removing and refitting
steering wheel and steering
column

Fig. 11 Tools: Steering wheel puller No. 532, ring spanner 32-27mm, Electric screw driver 2mm

Fig. 12 1. Remove snap ring for horn blowing slide contact.

Caution: Hold the snap ring with the finger as otherwise it jumps away.

Fig. 13 2. Grasp horn blowing ring and remove.

Caution: Do not use any tool in order to avoid damaging the horn blowing ring plate or the steering wheel hub. The horn plate can be easily raised with the finger nails.

Fig. 14 3. Disconnect horn wire from horn blowing ring.

(electric screw driver)

4. Unscrew the steering wheel nut. (ring spanner 27 mm)

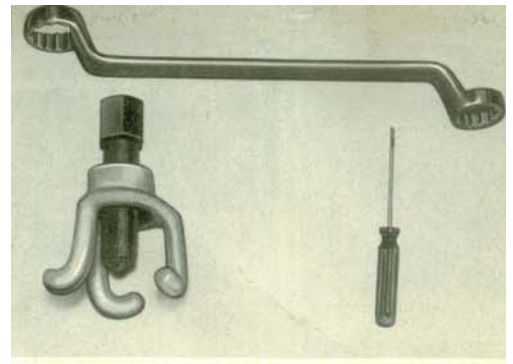
Caution: When assembling tighten steering wheel nut only so far as to obtain a play-free movement of the steering assembly.

Fig. 15 5. Attach puller Tool No. 532 and remove steering wheel. (steering wheel puller, ring spanner 32 mm)

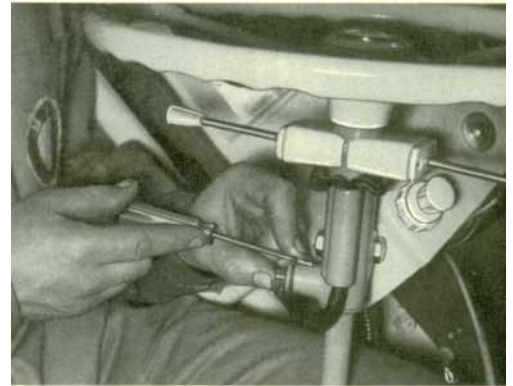
6. Remove steering column downwards.

Caution: The steering column is mounted on rubber guides that may be withdrawn upwards and downwards by means of two wire hooks. When assembling or fitting new rubber guides insert them with high-pressure grease.

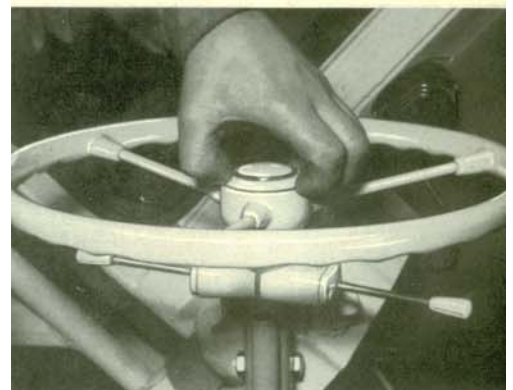
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L 10 Basic adjustment of steering

"L 1 Removing and refitting steering" belongs to this chapter.

Fig. 16 Tools: Open ended spanner 22 mm, socket spanner 14 mm, ring spanner 17 mm, cotter pin pliers.

Fig. 17 When using new parts adjust steering as follows:

1. Assemble steering shaft and its inner arm.
2. Move inner steering arm rearwards until it abuts on the steering gear housing.

3. Place outer steering arm in position so that it points horizontally - and parallelly to the frame - in rearward direction.

Fig. 18 Caution: Then, if the inner steering arm is drawn forwards until it abuts at front, the outer steering arm stands vertically to the chassis.

4. The two steering arms are now situated at the prescribed angle each to other.

Fig. 19 5. In this position tighten the steering arms by means of the clamping screws.

6. Attach steering drag link on the outer steering arm, tighten the nut and repin. (ring spanner 17 mm, cotter pin pliers)

7. Slacken lock nut on the steering drag link. (open ended spanner 22 mm)

Fig. 20 8. Place the outer steering arm in central position, that is at an angle of 45 deg. to the chassis.

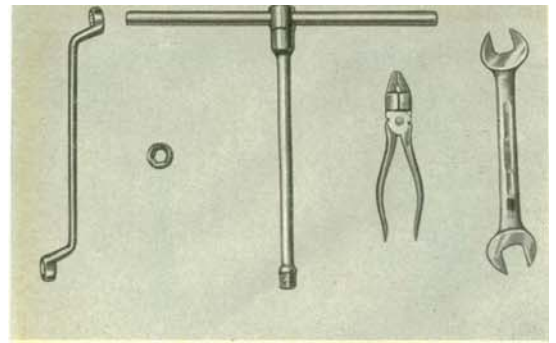
9. Place the front wheels in straight-ahead position.

10. Rotate clevis unit of steering drag link until the bolt for rear clevis connection goes easily through the steering knuckle arm. The steering drag link has now a length of 204 mm = 8 inches from eye to eye.

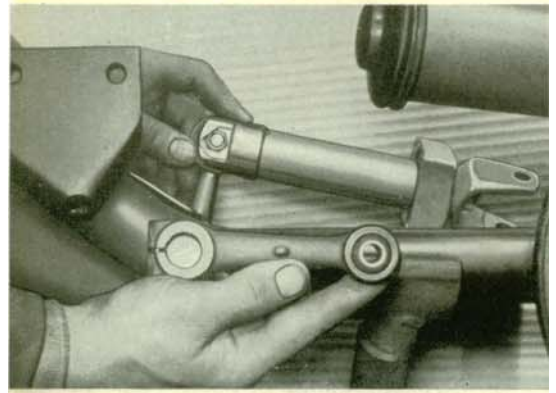
11. Enter the bolt, fit the nut and repin. (ring spanner 17 mm, cotter pin pliers)

12. Tighten lock nut on steering drag link. (open ended spanner 22 mm)

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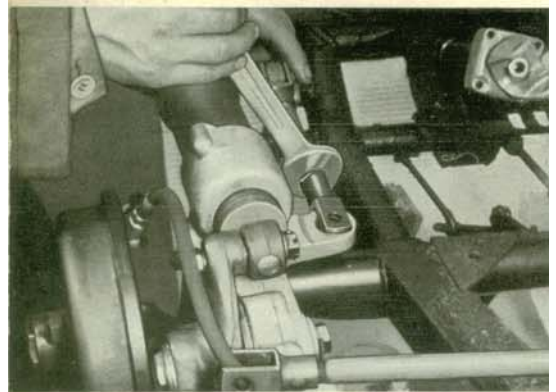
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