

Fig. 8.21. Exploded view of rear axle suspension carrier (Sec. 10)

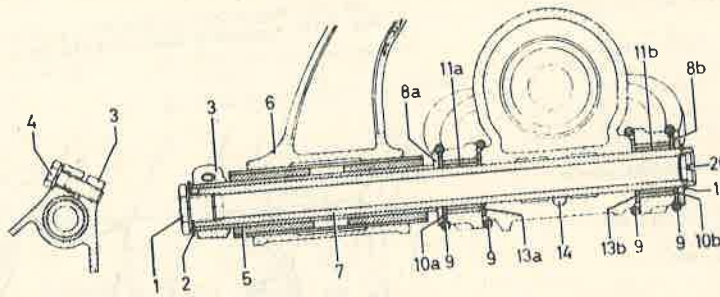


Fig. 8.22. Sectional view of rear axle suspension carrier pivot (Sec. 10)

- 1 Pivot bolt
- 2 Lockplate
- 3 Axle front cover plate and clamp
- 4 Pinch bolt
- 5 Flexible mounting
- 6 Carrier
- 7 Pivot shaft
- 8a Washer
- 8b Washer
- 9 O-rings
- 10a Washer
- 10b Washer
- 11a Sleeve
- 11b Sleeve
- 13a Compensating washer
- 13b Compensating washer
- 14 Tapered cotter bolt
- 18 Circlip
- 20 Slot

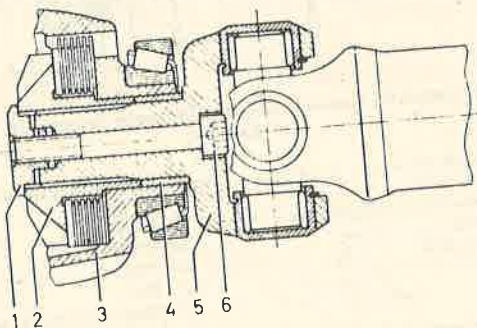


Fig. 8.23. Sectional view of axleshaft universal joint (Sec. 11)

- 1 Side gear nut
- 2 Side gear
- 3 Differential housing
- 4 Sleeve
- 5 Yoke
- 6 Centre securing bolt

11 Axleshaft universal joint - removal and refitting

- 1 Remove the rear axle assembly from the car.
- 2 Remove the axleshaft from the right-hand side.
- 3 Remove the right-hand axle tube.
- 4 Using a suitably long Allen key, unscrew and remove the socket headed screw which secures the yoke in position (Fig. 8.23).
- 5 The universal joint can now be withdrawn from the differential housing. If it is tight, use a suitable puller.
- 6 If the joint is worn or damaged it should be renewed as an assembly.
- 7 Before refitting the joint, clean the splines on the joint and the differential side gear with a suitable solvent and then lubricate them.
- 8 Tighten the joint socket screw to the specified torque wrench setting having first coated the threads with a thread locking compound.
- 9 Refit the axle tube and shaft and refit the rear axle assembly.

12 Differential unit - removal and refitting

- 1 As previously recommended, overhaul of the differential should be left to your dealer or a new or reconditioned unit obtained.
- 2 To prepare the differential for overhaul or exchange, remove the complete axle assembly from the car as described earlier in this Chapter. The subsequent operations are also fully described in earlier Sections.
- 3 Remove the axleshafts.
- 4 Remove the right-hand axle tube and the differential suspension carrier.
- 5 Remove the universal joint assembly.
- 6 Unbolt and remove the left-hand axle tube from the differential housing.

Part B - Open type shaft rear axle

13 Axleshaft - removal and refitting

- 1 Drain the oil from the rear axle. Remove the roadwheel.
- 2 Unbolt the brake caliper and tie it up carefully to avoid strain on the flexible hose. There is no need to disconnect the hose (Fig. 8.24).
- 3 Apply the parking brake fully and unscrew the central hub nut. If the brake is not powerful enough to prevent the axleshaft turning as the nut is unscrewed, temporarily refit the roadwheel, lower the car to the ground and chock the wheel (Fig. 8.25).
- 4 A suitable puller should now be bolted to the hub using the roadwheel bolts, so that pressure can be applied to the end of the axleshaft to press it out of the hub. It is often easier to carry out this operation if the shock absorber is first disconnected and the suspension trailing arm lowered to its stop.
- 5 Support the differential housing on a jack, preferably of the trolley type.
- 6 Remove the rear flexible mounting from its attachment to both the body floor pan and the differential housing (Fig. 8.26).
- 7 Clean away external dirt and unbolt and remove the rear cover