

GROUP F SPRINGS AND SHOCK
ABSORBERS

F 1 Removing and refitting front
spring

Fig. 1 Tools: Ring spanner 17 mm, cotter pin pliers, 2 wire hooks.

1. Support the vehicle, discharge the spring.

2. Remove rubber caps.

3. Remove cotter pin from nut securing the pull rod. (cotter pin pliers)

Fig. 2 4. Unscrew the pull rod nut. (ring spanner 17 mm)

Fig. 3 5. Remove cover plate and coil spring, draw out the two rubber bumpers with the aid of the two wire hooks.

Fig. 4 6. Check the length of the spring.

Caution: The unloaded spring length should be 170 mm = 6.8 inches.

Fig. 5 7. When refitting grease the front spring. Order of refitting:

Rubber bumper

Rubber bumper

Coil spring

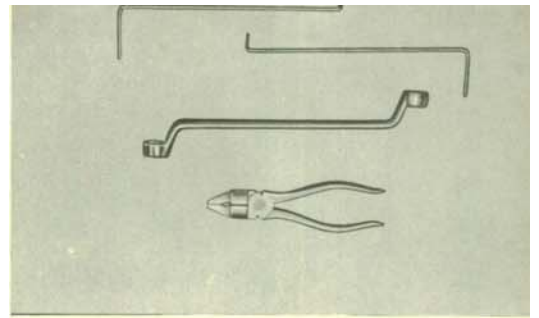
Cover plate

8. Place the nut in position, tighten and repin.

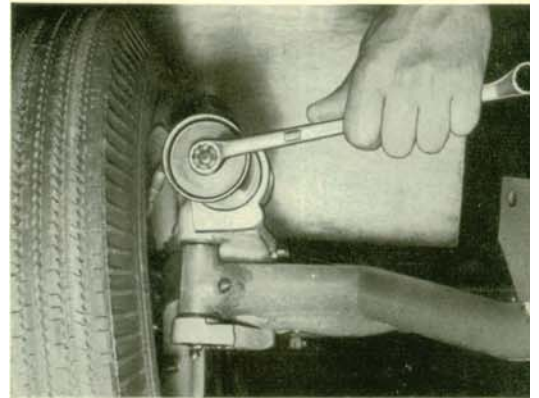
Caution: The coil spring has the right amount of initial tension, if the cotter pin hole machined through the pull rod is clearly visible in the castellated nut.

9. Replace the rubber cap.

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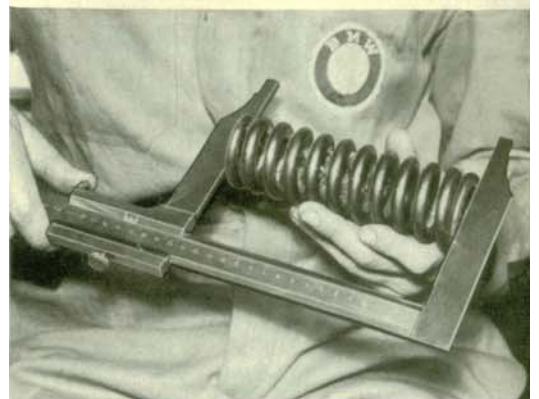
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F 5 Replacing friction disc

Fig. 6 Tools: Ring spanner 17 mm, open ended spanner 10/22 mm, wheel nut spanner, hammer, chisel, brass drift, plastic hammer, cotter pin pliers, screw driver.

Fig. 7 1. Remove wheel cover plate, slacken wheel nuts, support the vehicle and remove the wheel.

2. Slacken the nut fixing the shaft of spring pullrod. (ring spanner 17 mm)

3. Drive out spring rod shaft by means of a plastic hammer, or with a brass drift, if very tight. (plastic hammer, hammer, brass drift)

Fig. 8 4. Straighten tab washer for screw on swing arms shaft. (chisel, hammer)

5. Slacken screw on swing arm shaft. (open ended spanner 22 mm)

Fig. 9 6. Remove swing arm together with the brake plate.

7. Remove the damper plate on inner side of steering knuckle. (open ended spanner 10 mm)

Caution: When assembling tighten the screw only after having centered the damper plate with the friction disc.

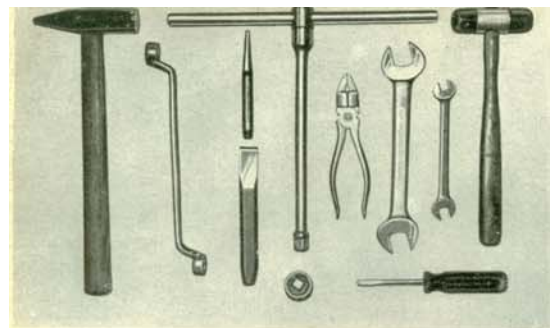
8. Check the length of damper plate springs. Length of unloaded springs should be 34 mm (1 1/3").

Caution: When assembling make certain that the rubber washer seats correctly between the friction disc and damper plate,

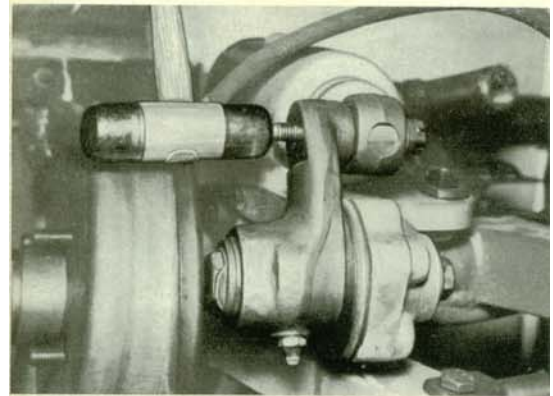
Fig. 10 and that the damper plate seats with its hole upon the locating pin on swing arm.

The reassembly is carried out in exactly the reverse order. When assembling grease the damper plate a little bit in order to avoid its blocking.

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F 10 Removing and refitting a rear spring

Fig. 11 Tools: Screw driver, wheel nut spanner, box spanners 14/17/19 mm, ring spanner 17 mm, hammer, chisel.

1. Remove wheel cover plate, slacken wheel nuts, support the vehicle at rear, locating the support beneath the cross member.

2. Remove the wheel.

3. Straighten the tab washer for the nut of spring-leaf retainer. (hammer, chisel)

Fig. 12 4. Unscrew the nut of spring-leaf retainer. (box spanner 14 mm)

Fig. 13 5. Slacken nut of spring-eye bolt, withdraw the bolt downwards. (box spanner 17 mm, ring spanner 17 mm)

Fig. 14 6. Unscrew the bolt fixing rear end of spring to back axle housing. (box spanner 19 mm)

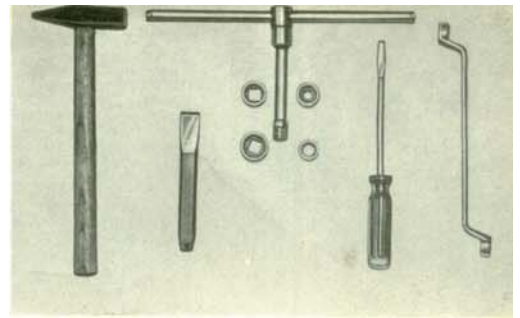
Caution: This bolt on the left-hand side must not be tightened with extreme force, tighten it only until it is right home, for otherwise the thread would be torn out of the aluminium casing.

Fig. 15 Caution: The right-hand side of this bolt features a nut.

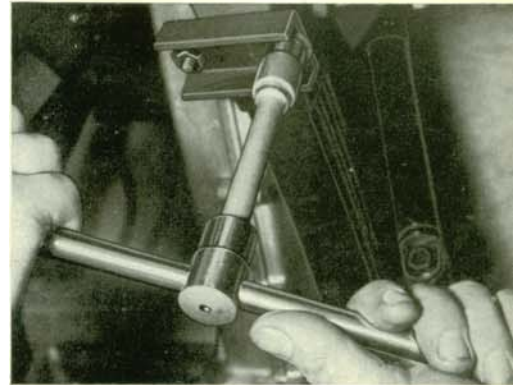
7. Withdraw the leaf spring rearwards and downwards.

The reassembly is carried in exactly the reverse order.

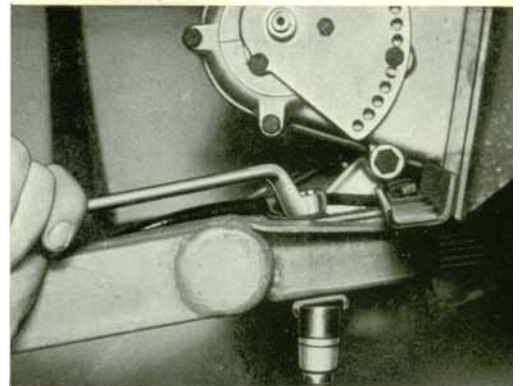
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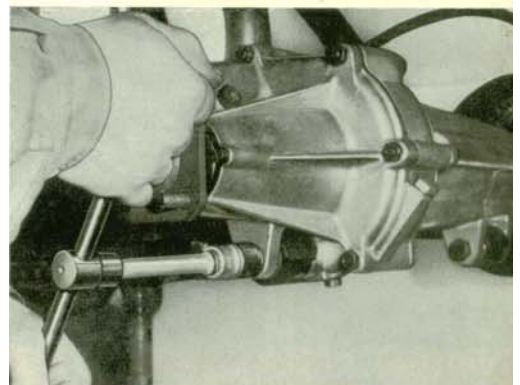
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F15 Removing and refitting shock absorber at rear

Fig. 16

Tools: Screwdriver, wheel nut spanner, ring spanner 17 mm, open ended spanner 17 mm, cotter pin pliers.

1. Remove wheel cover plate, slacken wheel nuts, support the vehicle below the cross member.

2. Remove the wheel.

Fig. 17

3. Remove cotter pin from nut of shock absorber lower fixing bolt and slacken the nut. (cotter pin pliers 17 mm, open ended spanner 17 mm)

4. Press out the lower fixing bolt.

Fig. 18

5. Slacken lock nut and nut of shock absorber top fixation. (open ended spanner 17 mm, ring spanner 17 mm)

Fig. 19

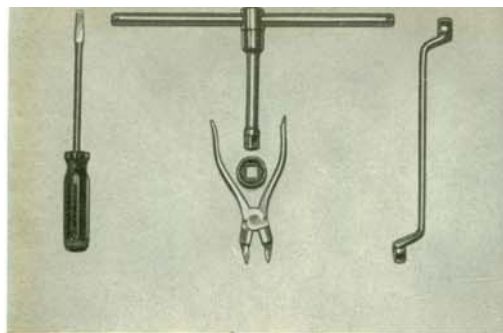
6. Withdraw shock absorber downwards.

Caution: When assembling remember correct order of top fixation components: Rubber ring - shock absorber support - rubber ring - washer - nut - nut.

Fig. 20

Caution: To check the shock absorber proceed as follows: Fix shock absorber to a flat steel plate, attach a weight of 3 kg 6.6 lbs. shock absorber must slide downwards in 16 to 19 seconds.

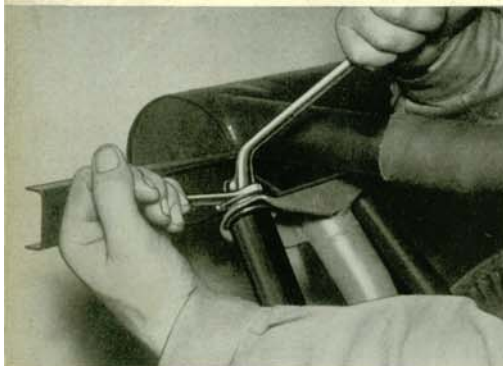
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