SERVICE INFORMATION

LAND-ROVER

Vol. 2 Issue 8

ROVER TRIUMPH BRITISH LEYLAND UK LIMITED
SERVICE DEPARTMENT
COVENTRY
ENGLAND CV4 9DB

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ITEM 17

Division : 76

Subject : Vehicle body height variation

Models : All Land-Rover

Remarks :

Because of recent enquiries into permissable body height variation on Land-Rover vehicles the procedure for checking and acceptable variations in height, which were the subject of an earlier type newsletter, are reproduced below :–

With the vehicle in the static unladen condition standing on level ground measure the distance from the ground to the shackle pin centres, marked (A) and (B) Fig.2. The permissible variation between vehicle sides in front or rear suspension height is 1 in. (25 mm).

Problems have arisen occasionally with 'settling' of front or rear road springs; invariably the springs in question have been found to be within the required limits. It has been established that the apparent settling is generally a result of 'wind up' in the shackle bushes.

In these cases it is recommended that the following steps be taken before considering removal of the springs for investigation.

1. Check the part numbers to ensure that the correct springs are fitted. The part number is stencilled on the top face and stamped on the under face of one of the leaves, see (A) Fig. 1.

2. With the vehicle weight taken off the road springs, remove the shackle pins. If they are not a free fit in their mating threads or in the rubber bush inner sleeves, use emery cloth and oil the threads, or, if necessary, ream the holes through which the shackle pin passes.

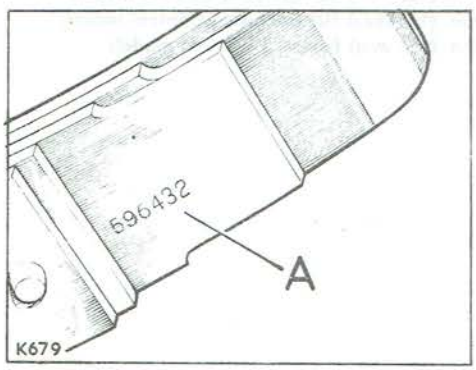

Fig. 1. Spring identification

3. Remove all traces of Parkerising from the ends of the inner faces of the shackle side plates.

4. Replace the shackle pins, and on achieving the spring position detailed in Fig.2, tighten first the shackle pin and then the lock nut to 70 lbf. ft. (9,6 mf.kg).

5. Allow the vehicle weight to be taken on the road springs.

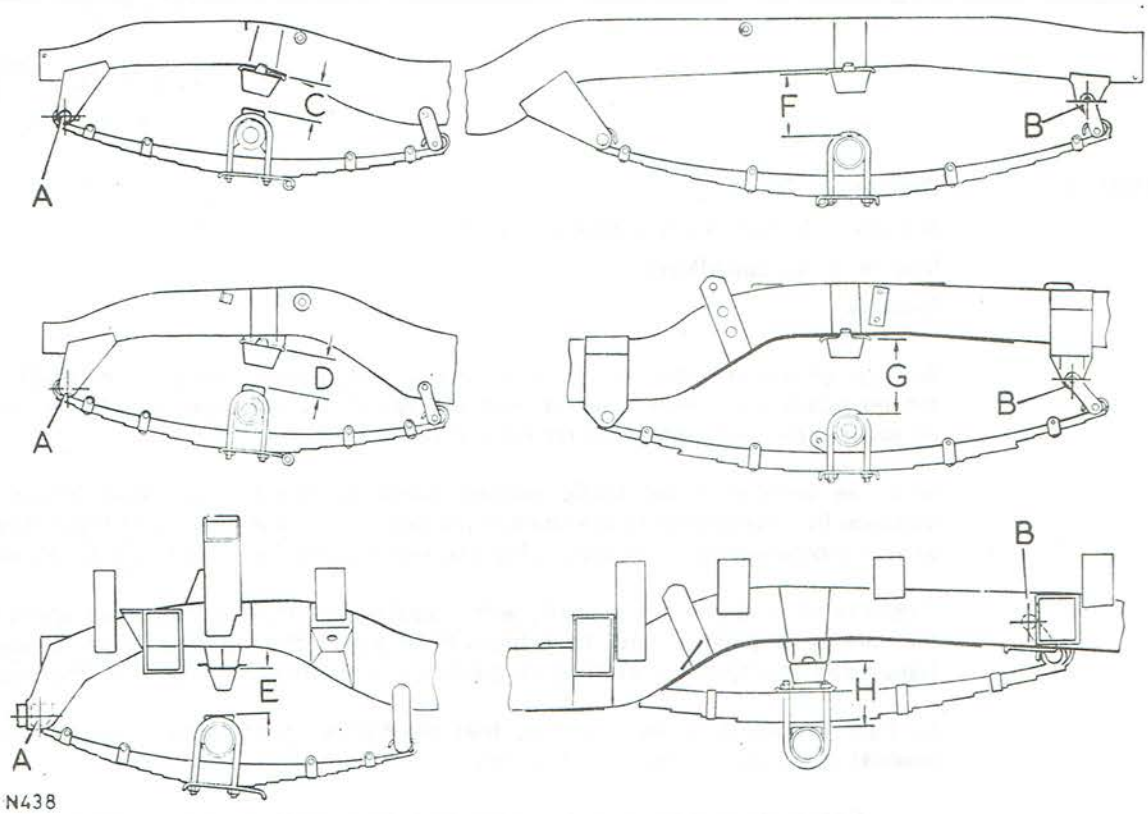

Fig. 2. Presetting position of road springs to chassis frame

A—Shackle pin centre, front spring
B—Shackle pin centre, rear spring
C—3.500 in. (89 mm) 88 Bonneted Control models
D—3.750 in. (95 mm) 109 Bonneted Control models
E—4.250 in. (108 mm) Forward Control models
F—5.000 in. (127 mm) 88 Bonneted Control models
G—6.000 in. (151 mm) 109 Bonneted Control models
H—6.000 in. (151 mm) Forward Control models