SECTION L

THE HYDRAULIC DAMPERS

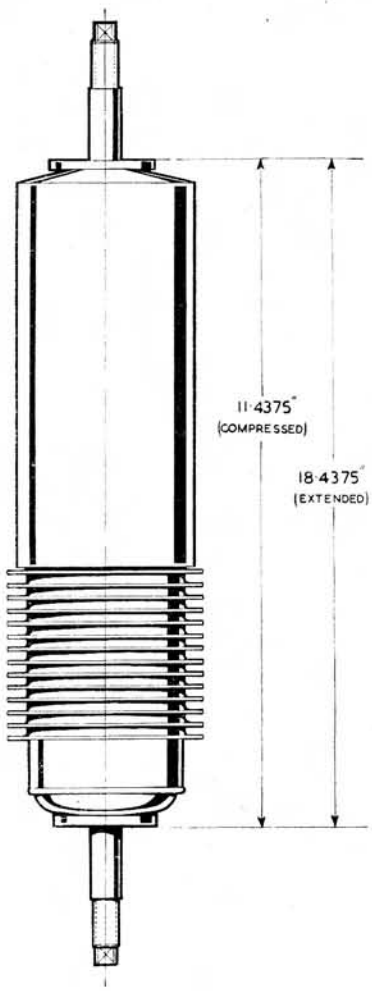

Fig. L.1.
A rear damper.

GENERAL DESCRIPTION

Telescopic hydraulic dampers are fitted at front and rear. All working parts are immersed in oil and the dampers are set before despatch. They cannot be adjusted or refilled with fluid, and when defective they should be replaced with new units.

Inspect the dampers at intervals for leaks. Replace an unsatisfactory damper by a new unit.

Section L.1

REMOVING AND REPLACING A DAMPER

Front. Unscrew the nut and locknut at the upper end of the damper and remove the washer and rubber bush.

Unscrew and remove the eyebolt at the lower end ; also slacken the bolt securing the mounting link to the lower suspension arm. Remove the damper.

Rear. Jack up the car and place a stand under the chassis side-member. Jack up the rear axle and remove the wheel.

Unscrew the nut and locknut at the top mounting and the lower mounting below the radius arm ; remove the washers and rubbers.

Lower the jack below the axle to relieve the spring compression and free the damper lower mounting bolt from the hole in the radius arm.

Remove the spring and the damper.

Replacement is the reverse of the above procedure.

Section L.2

TEST DATA

Front (up to Cor No. RMH.1169)
Rebound : 400 lb. (181 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Compression : 300 lb. (136 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Time setting : 60 lb. (27·2 kg.)±25% at 11·6 ft./min. (3·53 m/.min.) at 18° C.
Length : Comp. 11·4375 in. (290·4 mm.) ; Extended 18·4375 in. (468·1 mm.).

Front (from Car No. RMH.1170)
Rebound: 500 lb. (227 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Compression: 250 lb. (113 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Time setting : 35 lb. (15·9 kg.)±25% at 11·6 ft./min. (3·53 m./min.) at 18° C.
Length : Comp. 10 in.±$\frac{1}{8}$ in. (254 mm.±3·18 mm.) ; Extended 15·25 in.±$\frac{1}{8}$ in. (387·3 mm.±3·18 mm.).

Rear
Rebound : 330 lb. (150 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Compression : 250 lb. (113 kg.)±10% at 103 ft./min. (31·39 m./min.) at 18° C.
Time setting : 40 lb. (18·1 kg.)±25% at 11·6 ft./min. (3·53 m./min.) at 18° C.
Length : Comp. 11·4375 in.±$\frac{1}{8}$ in. (290·51 mm.±3·18 mm.) ; Extended 18·4375 in.±$\frac{1}{8}$ in. (468·11 mm. ±3·18 mm.).

Section L.3

It has been found that the fins on the rear dampers are fouling the chassis frame in some earlier cars prior to chassis No. RMH.1170. To overcome this fault, dampers, Part No. ACB.5779, can be fitted in pairs only. Test figures for these units are as above.