

Figure 4-11. Component parts of front cushion

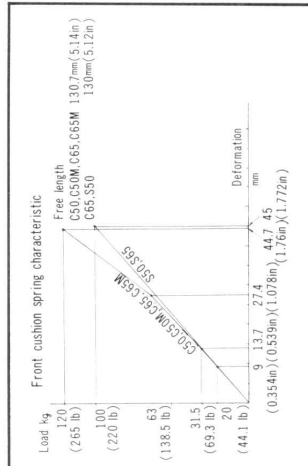


Figure 4-12. Characteristic of front cushion spring

b. Inspection

- Inspect for oil leaks from the damper as it will have an adverse effect on the dampening characteristics as well as producing undesirable noise.
- Front cushion spring (Fig. 4-12)

	Standard Value	Serviceable Limit
Load	50 kg/109 mm (110 lb/4.29 in.)	
Load	100 kg/92.1 mm (220 lb/3.63 in.)	Adjust or replace if under 90 kg/92.1 mm (198 lb/3.63 in.)
Free length	130.7 mm (5.14 in.)	Replace if under 120 mm (4.72 in.)
Tilt		Replace if over 4°

- Front fork piston diameter
Standard value → 16mm - 0.016 (0.6300 - 0.0006 in.)
- 0.043 (0.6300 - 0.0017 in.)
- Front fork bottom case diameter
Standard value → 16mm + 0.027 (0.6300 + 0.0011 in.)
- 0 (0.6300 - 0 in.)
- Damping capacity of front cushion damper
30 ~ 35kg/0.5m/sec. (66 ~ 77lb/19.68 in./sec)

c. Reassembly

The reassembly shall be performed in the reverse order of the disassembly.

(Note)

- Wash all component parts of the suspension arm and lubricate with grease, apply oil on the dust seal.
- After reassembly, apply grease through the grease fitting.

4.3 REAR CUSHION

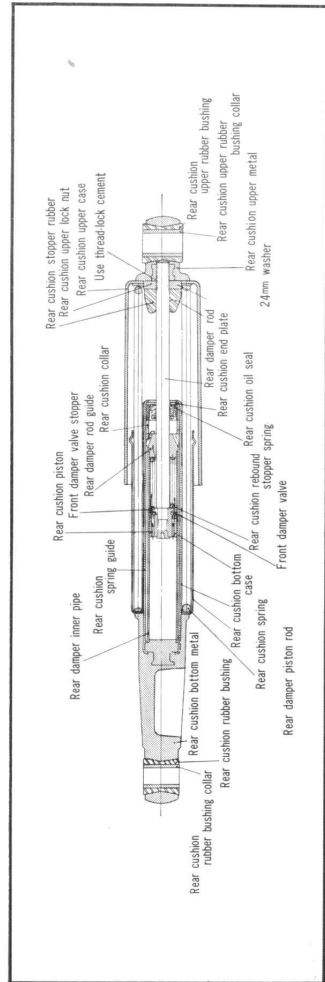


Figure 4-13A. Rear cushion cross sectional diagram (S65, S50, C65)

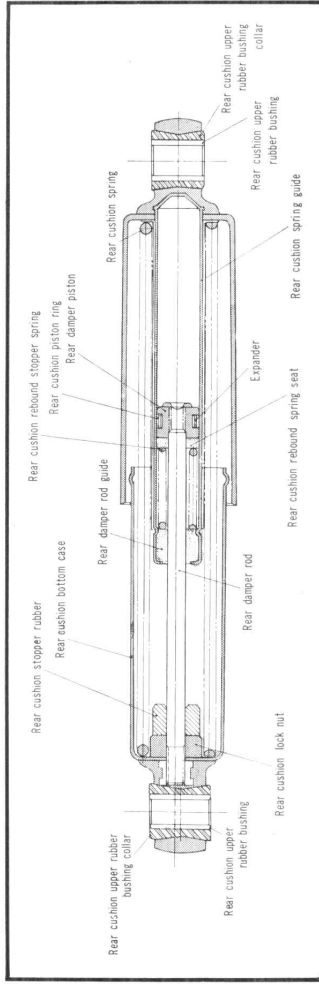


Figure 4-13B. Rear cushion cross sectional diagram (C50, C50M)

1. REAR CUSHION CONSTRUCTION

The rear cushion connects the frame with the rear fork and absorbs the shock from the rear wheel.

The coil spring having an ununiform pitch is housed within the metal lower case and the upper case which is made of high strength hexax plastic, absorbs the load of the heavy cargo carried on the luggage rack. The hydraulic damper dampens the reacting extension force. The rear cushion contains 17cc of #60 white spindle oil. (Fig. 4-13A, 4-13B, 4-14)

Rear Cushion Stroke :

- C65, C65M → 67.5 (2.658 in)
- S50, S65 → 63.6 (2.492 in)
- C50, C50M → 62.6 (2.465 in)

a. Disassembly

- Remove the rear cushion assembly by loosening the upper and lower cap nuts. (Fig. 4-15)
- Disassemble the rear cushion component parts.

b. Inspection

- Damping capacity of rear cushion damper
25 kg/0.5m/sec. (55 kg/19.68 in./sec)
- Rear cushion spring (Fig. 4-16)

	Standard Value	Serviceable Limit
Free Length	209.8 mm (9.260 in.)	Replace if under 200 mm (7.874 in.)
Tension	16 kg/198 mm (35 kg/7.795 in.)	
Tension	65 kg/162 mm (143 lb/6.378 in.)	
Tension	116.5 kg/140 mm (256 lb/5.512 in.)	Adjust or replace if under 106 kg/140 mm (234 lb/5.512 in.)

c. Reassembly

After reassembly, operate the rear cushion by hand to assure that there is no binding between the spring and the case.

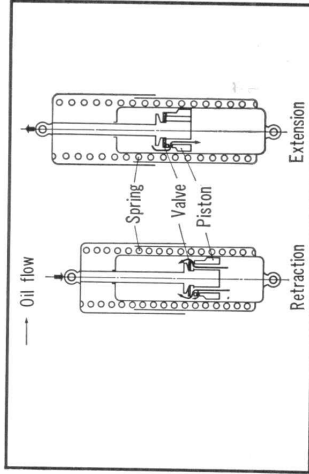


Figure 4-14. Rear cushion oil damper operation

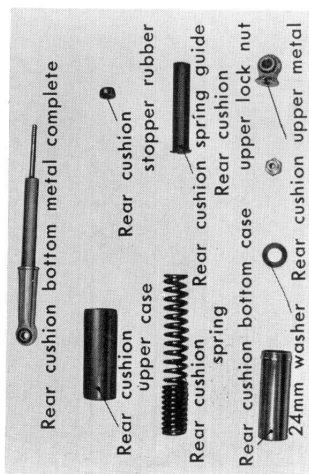


Figure 4-15. Component parts of rear cushion

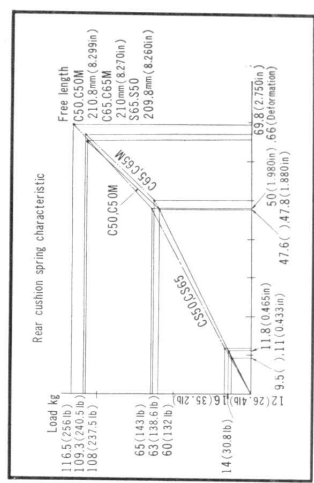


Figure 4-16. Characteristic of rear cushion