

Section L (Wheels and Tyres)

Page 3

Oil and grease

Oil and grease should be removed by using petrol sparingly. If oil or grease on the tyres results from over-lubrication or defective oil sealing, suitable corrective action should be taken.

Uneven tyre wear

All tyres should be examined at regular intervals for uneven wear.

CAUSES AND RECTIFICATION OF UNEVEN TYRE WEAR

Many factors can cause rapid or irregular wear, which can often be diagnosed from the nature of the wear. All tyres should be examined at regular intervals for uneven wear. In cases of abnormal wear it is advisable to check the following points:—

- (a) Tyre pressures (see under "Maintenance").
- (b) Brake freedom and drum balance, shoe settings, drum condition and trueness.
- (c) Front wheel alignment (see Section F).
- (d) Front wheel camber angles (see Section F).
- (e) Play in hub bearings. Adjustment is described in Section F under the heading "Front Hub Adjustment".
- (f) Play in steering joints. See Sections F and J for the renewal procedure.
- (g) Wheel lift and wobble (see under Checking Wheel and tyre run-out).
- (i) Balance of the wheel and tyre assemblies. The tyres should be checked for both static and dynamic balance (see under "Tyre and Wheel Balance").
- (j) Condition of road springs and shock absorbers (see Sections F and H).

Irregular wear may be caused in addition by the local road conditions, such as from a combination of steep camber, abrasive surfaces and frequent hills and bends. Driving methods may also be involved.

It is recommended that wheels and tyres are interchanged at regular intervals according to the information given in the "Service Vouchers".

Incorrect tyre pressure

Tyre distortion due to persistent under-inflation causes rapid wear on the shoulders and leaves the centre standing proud. Over-inflation has the opposite effect, i.e., excessive wear on the centre tread leaving the shoulders standing proud.



Fig. 2. Fin and feather wear due to extreme wheel misalignment.

Misalignment of the front wheels

The tyre tread having been scrubbed off laterally is caused by wheel misalignment. An upstanding sharp fin on the edge of each pattern rib is a sure sign of misalignment.

With minor misalignment, probably aggravated by road camber, the ribs may have sharp edges instead of up-standing fins.