

# 2.5 Front Suspension, Wheel Bearings and Drive Shafts

Information	Method of Inspection	Reason for Rejection
<p>Reason for Rejection 2 does not apply to a Vehicle Where it is not possible to rotate the wheel due to a Design characteristic or its drive configuration.</p>	<p>c. For suspension types on Suspension Type diagram fig 3,3a and 4 check for movement in suspension ball joints, tie bar joints and MacPherson strut upper attachment. If ATL approved; this inspection is carried out on wheel play detectors in side to side mode.</p> <p>Repeat Methods of Inspection a, b and c above using the assistant to place a suitable bar under each wheel in turn and levering upwards while the tester examines the relevant items.</p> <p>2. With the steered wheels clear of the ground, rotate each wheel in turn and listen for any sound indicating roughness in the bearing.</p> <p>3. Rock each wheel by hand or, where appropriate, with a bar in the wheel. (This inspection may alternatively be carried out at Class VII testing stations using wheel oscillating equipment, where available, in the “side-to-side mode.”) If ATL approved; this inspection is carried out on wheel play detectors in side to side mode.</p> <p>Check</p> <p>a. the amount of movement between the stub axle and the axle beam, or</p> <p style="text-align: right;"><b>Cont'd</b> ↓</p>	<p>c.</p> <ul style="list-style-type: none"> <li>▪ at a suspension ball joint, tie bar joint, wishbone bearing, pin or bush</li> <li>▪ at a MacPherson strut upper attachment.</li> </ul> <p><b>Note:</b> some MacPherson strut top bushes are designed to have lateral play when the suspension is hanging free. Rejection is only justified when play is due to wear and/or maladjustment, etc.</p> <p>2. Roughness, in a front wheel bearing</p> <p>3.</p> <p>a.</p> <ul style="list-style-type: none"> <li>▪ King pin loose in axle beam or its pin retaining device missing</li> <li>▪ excessive play in king pin and/or bush such that it is likely to adversely affect the steering of the vehicle.</li> </ul> <p style="text-align: right;"><b>Cont'd</b> ↓</p>