

Suspension System - General Information - Front Camber and Caster Adjustment

General Procedures

- NOTE: Before any work is commenced, the vehicle must be checked to establish that it conforms to the Jaguar original specification, e.g. wheels, tires, tire pressures, etc.

- NOTE: The vehicle must be unladen and the fuel tank full when measuring suspension geometry.

1. Road test the vehicle to establish the exact nature of the complaint, e.g. pulling to one side, wander.
2. Measure the suspension geometry, fill in the 'Suspension Geometry Record Form', and contact Jaguar Technical Support for assistance.
3. Technical Support will give advice on the course of action to be taken to rectify the problem.
4. Each lower wishbone pivots on and is secured to the front crossbeam by two fulcrum bolts. A circular eccentric flange formed under the hexagonal head of each fulcrum bolt, has raised graduation marks to indicate radial position. A washer with a 'D' shaped hole locates on a flat on the threaded section of each bolt. This ensures that the washer rotates with the bolt, maintaining an eccentric position corresponding with the flanged head. The outer face of the washer is punch marked, ensuring correct installation with the chamfered face inwards. This permits the washer to rotate freely in the crossbeam cam reaction plate during a djustment. Each fulcrum bolt and washer are secured by a self locking nut.

On rotation of the bolt, lateral movement of the eccentric flange and washer is restricted by the cam plate faces, forcing the bolt shank to move laterally in the crossbeam slots. Lateral movement of the bolt shank results in corresponding inward and outward movement of the wishbone arm, effecting adjustment of wheel alignment.

Rotation of the front fulcrum bolt principally adjusts wheel caster angle, with a small amount of camber angle change. Adjustment of the rear fulcrum bolt mainly alters wheel camber angle with a small amount of caster angle change.

On vehicles with VIN up to 833124, fulcrum bolt eccentric flanges have raised graduation marks representing 15 degree increments of bolt rotation from 0 to 90 degrees.

On vehicles with VIN from 833125, the fulcrum bolt graduation marks represent bolt shank horizontal movement in 1mm increments from 0 to 3mm.

The upper wishbone and fulcrum shaft are not adjustable and play no part in steering geometry adjustment.