

Steering Troubles and Their Cure

Trouble	Cause	Cure
Steering hard in operation. Steering is equally hard at all locks, and does not return automatically to the straightahead position after rounding bends	<ul style="list-style-type: none"> a) Front axle insufficiently greased. b) King pins do not turn freely and may be binding. c) Steering gear incorrectly adjusted. 	<ul style="list-style-type: none"> a) Jack car up to remove load from front axle and grease thoroughly. b) Check by jacking up car and disconnecting tie rod. If king pin does not turn freely, try to free it by through greasing. If necessary remove king pin and replace defective parts. c) Check adjustment of steering gear. Pay special attention to adjustment of pressure point.
Steering hard in operation, cannot move evenly. Although steering is quite free to move, it does not automatically return to straightahead position after rounding bends.	<p>Faulty steering damper</p> <ul style="list-style-type: none"> a) Front wheels are not aligned as specified. b) Steering arms on stub axles are distorted. 	<p>Remove and check steering damper and fit new damper, if required.</p> <ul style="list-style-type: none"> a) Correct alignment of front wheels (caster, camber, and toe-in). b) Remove stub axles and check for distortion with aid of gauge P 69. Replace distorted stub axle.
Play in steering gear	<ul style="list-style-type: none"> a) Faulty adjustment of steering gear. b) Steering gear components worn 	<ul style="list-style-type: none"> a) Adjust steering gear as specified. b) Fit new set of steering gear components (rocker shaft, nut and steering worm).
Play in tie rod ends	<ul style="list-style-type: none"> a) Worn tie rod ends 	<ul style="list-style-type: none"> a) Fit new tie rod ends
Play in front wheel suspension	<ul style="list-style-type: none"> a) Wear at bearings (suspension arms, suspension arm links, stub axles, and front wheel bearings). 	<ul style="list-style-type: none"> a) Check adjustment of pivot pins and front wheel bearings. Replace any parts showing excessive wear.