

JOB ROLE – AUTOMOTIVE SERVICE TECHNICIAN

Sector: Automotive
(Qualification Pack Code : **ASC/Q01402**)



PSS Central Institute of Vocational Education
Shyamla Hills, Bhopal – 462013, Madhya Pradesh, India

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UNIT 4 : Suspension system

Session 4: Inspection of steering linkage

Content

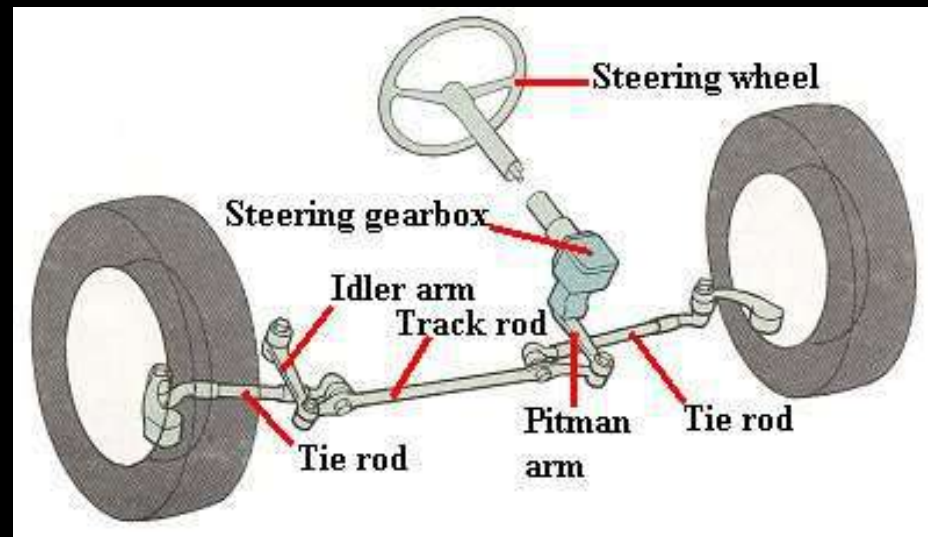
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Session Objectives

1. The student will be able to explain the role of steering linkages in a vehicle .
2. Able to understand the procedure for inspection, repair and replacement of steering linkages .
3. Able to carry out servicing, repair and replacement of shock absorber .

Introduction

A steering linkage is the part of an automotive steering system that connects to the front wheels. Steering linkages consist of drag link (pitman arm), tie rod, ball joint, end joint, arm assembly, torsion bar, and steering shock absorber, bushes of steering axis, steering arm and stub axle.



Regular Inspection of steering linkage is necessity to maintain safety and control of the vehicle.

Inspection of steering linkages

1. Lift the front portion of the car/vehicle,
2. Turn the steering wheel from one lock end to another lock end,
3. Check for noise and binding in-steer.
4. If the binding is traced, remove the drag link connection from steering gearbox.
5. Now rotate the steering wheel in both the direction and trace for the binding. If the binding is noticed then it probably lies in the steering gear box.
6. If the binding is not traced in steering gear box then problem is in steering linkage. Check the ball joint/bushes for free movement with thumb pressure and replace the same if necessary.

Precaution

1. Fix the spanner properly.
2. Keep the removed nut bolts properly.
3. Handle the pots carefully.
4. Support the chassis properly with stand.

Summary

In this session you have learnt about , A steering linkage is the part of an automotive steering system that connects to the front wheels..Steering linkages consist of drag link (pitman arm), tie rod, ball joint, end joint, arm assembly, torsion bar, and steering shock absorber, bushes of steering axis, steering arm and stub axle.

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