

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 7 : Regular maintenance of Gear box
Session 2: Setting of Gear Box

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Session Objectives

The student will be Able to explain importance of checking play in gear box.

Able to identify gear box and its components

Introduction

For easy shifting of gears, it is necessary to regularly lubricate gear linkages. Slackness must be inspected and adjusted at regular intervals otherwise, it may cause hard gear shifting and gears slip out of mesh. Gear lever with gear rod-excessive play is corrected by using thrust washer, by adding thrust washers in lever casing. Also, check the gear rod spring and lever ball bearing



Fig : Gear Box



Fig : Gear Shifter Fork

gear shifter fork should align with shifting sleeve on the main shaft of respective gear. If alignment is improper, loosen the fork and adjust the same.

Check the synchronizing ring with the synchronizing cone and fixed hub mounted on main shaft. Inspect the internal and external teeth for nick formation, polish the same for solving the problem. In case of motorcycles, tighten the gear shifter lever, if it is slackened.

for road test after the service and check for the following

Gear shift easily from 1 to 5 gears and reverse with appropriate speed and resistance.

Check for smooth power transmission

Summary

In this session you have learnt about, Gear lever with gear rod-excessive play is adjusted by using thrust washer, by adding thrust washers in gear lever casing. Also, check the gear rod end and lever ball for wear.

The shifter fork should align with shifting sleeve on the main shaft of respective gear. If alignment is improper, loosen the fork and adjust the same.

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