

JOB ROLE – AUTOMOTIVE SERVICE TECHNICIAN

Sector: Automotive
(Qualification Pack Code : ASC/Q1401)



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Unit 2: Automobile Service Tools
Session 5: Service Workshop Equipment

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Session Objectives

1. The student will be Able to explain Service Workshop Equipment
2. Student will Able to discuss about Service Workshop Equipment .

Introduction

Modern service workshop deploy important workshop machine for handling and servicing of a vehicle. These machines make work very systematic and comfortable to mechanic. Common equipment fitted in the workshops are Two Post lift, Air compressor, Wheel balancer, Bench vice, Work tables, Bench grinder, Oil draining & filling equipment, Cooling system tester, BC clamp meter, Coolant tester, Battery & charging system tester (Megatronics), Diagnostic tool (genesis Evo), Pneumatic tools and many other tools.

Types of Service Workshop Equipment

Two Post lift:

It is used for lifting an automobile vehicle and to carry out the work under the chassis. It consists of two columns and screws are fitted in each column. Similarly four post lift is also used in workshop.



Air compressor

This is the machine which is used to increase the pressure of air by reducing its volume.



Fig : Air compressor

Generally air compressors have been categorized in two types:

- Rotary Screw Air Compressors
- Reciprocating Air Compressors

Rotary Screw Air Compressors

The rotary screw air compressor has become the most popular source of compressed air for industrial applications.

Reciprocating Air Compressors

Designed for heavy shop or industrial use, Ingersoll Rand Two Stage electric air compressors provide the quality and performance that are ideal for most applications and users, including: automotive service and body shops, fleet maintenance, machine shops, production and manufacturing lines, car washes, maintenance/repair shops and farms.



Fig : Wheel balancer

Wheel balancer

Wheel balancing helps in minimizing tire vibration and bounce. By wheel balancing traction, steering control improves and life of tires increases. Automatic wheel balancer is designed for the tyre shop and workshop. It is very simple and easy to operate

Pneumatic wrenches

Pneumatic wrenches that is made from premium quality raw material. This type of wrenches are used for accuracy and easy operations, mostly in workshops, power plants, mining & cement industries, railways industries, fertilizers/chemicals and so on. These are used where accurate torque is required on a nut and bolt. These wrenches are operated electrically.



Fig : Pneumatic wrenches

Summary

In this session you have learnt a following, Modern service workshop deploy important workshop machine for handling and servicing of a vehicle. These machines make work very systematic and comfortable to mechanic.

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