



### System Features

- Direct view of the structure, working principle and real-time running status of the system.
- Data from all sensors can be detected & tested with millimeters & other instruments.
- Strong, processed with high-temperature spray painting.

### System Description

- Steering, Suspension, Brake & Tires Trainer Order Code : 32709 is based on the task list and provides the student with a trainer that can simulate various road conditions. Sci-tech's Suspension and Steering Training Program is completely operational with McPherson strut, rack and pinion steering, tires and front disc brakes. The McPherson Strut Suspension can be loaded with hydraulic cylinders that are mounted under the strut. The trainer has the complete strut assembly, tires and wheels, steering handle, and complete front disc brake system with power booster. Power steering is run by a 3 HP motor for more valuable skill testing. The readily accessible components make the instructor's task relatively easier. The component operation, identification, and diagnosis of problems can be pinpointed and replaced/repaired by the student.

### List of Experiments

- Explain alignment procedures.
- Experiment of steering angles and how each affects vehicle handling.

- Experiment of Diagnose and correct suspension and steering problems.
- Experiment of Diagnose and service wheels, tires and wheel bearings.

### System Components

- Steering rack and pinion with power assist.
- Lilt steering wheel and column assembly.
- Power steering pump.
- MacPherson Struts.
- Front wheel assemblies.
- Front wheels and tires.
- Hydraulic Piston.
- Hydraulic control Levers.
- Electric motor and Drive Belt.
- Power ON switch.
- Trainer operation.
- Steering.
- Fully Operational power steering pump driven by electric motor and drive belt.
- Suspension.
- Hydraulic piston are provided by on-board power steering pump and controlled by levers.
- Strut operation does not interfere with wheel rotation.

### Service Required at Site

- Electric supply 230 V AC, 50 Hz & 440v for three phase supply.

Note: Specifications are subject to change.

### **Tesca Technologies Pvt. Ltd.**

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