WHEEL ALIGNMENT EDUCATIONAL TRAINER

A3

Product number
MSVAZ01

Wheel alignment training educational trainer is an advanced instructional tool designed to demonstrate the intricacies of wheel alignment and suspension geometry. Featuring a McPherson-type front suspension and a multi-link rear suspension, this stand offers comprehensive training capabilities for adjusting camber, caster, toe, and steering axis inclination angles. All suspension components are visible and easily adjustable, making this an ideal resource for automotive technical education.

Features

- Modify toe, camber, and caster angles on both front and rear axles.
- McPherson-type front suspension, 8 adjustment points for precise alignment settings.
- Multi-Link rear suspension, features 3 adjustment points for detailed angle modifications.
- Compatible with 3D, CCD, and mechanical wheel aligners for comprehensive measurement and adjustment.
- Allows for easy viewing and access for measurements and adjustments without the need for a car lift.
- Easily foldable for compact storage and convenient transportation.

Value for instructors

- Provides easy, safe, and comfortable training that builds confidence, using OEM components to offer a realistic car repair experience.
- Provide clear, hands-on demonstrations of suspension geometry adjustments using visible and adjustable suspension components.
- Space-saving, foldable design that allows for easy storage and mobility within the classroom.
- Uses OEM automotive parts for an authentic and practical learning experience. Students gets real experience with all parts and functions exact as in real cars.
- Allows concurrent use by multiple students, promoting collaborative learning and practical training opportunities.
- The training stand is designed for simplicity, requiring only small adjustments to reset to default parameters, making it easy to prepare and start each lesson quickly and efficiently.

Value for students

- Adjust camber, caster, toe, and steering axis inclination (SAI) angles on both front and rear suspensions.
- Understand the mechanics and functions of a McPherson-type front suspension and a multi-link rear suspension through direct interaction.
- Front hydraulic brake for extended analysis brake interaction into suspension.
- Utilize various wheel aligners, including 3D technology wheel aligners, CCD technology wheel aligners, and mechanical aligners (rulers, ropes, lasers), to measure and adjust suspension geometry.
- Learn to measure and adjust wheelbase distances, axis shifts, scrub radius, caster trail, tread width, and other essential alignment parameters.
- Develop proficiency in using diagnostic tools to monitor ride height, central line position, traction line operation, thrust angle, toe difference angle, and turning radius.

Specifications

- Dimensions:
- Fully spread base 1100 x 3100 x 1700 mm (43.31x122.05x 66.93 in);
- Folded for storage 1100 x 1650 x 1700 mm (43.31x64.96x66.93 in) (standing on wheels);
- Upright folded 1650 x 1100 x 1700 mm (64.96x43.31x66.93 in)
- Weight: approx. 195 kg (~430 lb)