ConsuLab
TRAINING AIDS

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EC-431 (053112)

CUTAWAY OPEN ADJUSTABLE DIFFERENTIAL TRAINER

As an instructor, have you struggled to demonstrate how a differential system works to your students? The EC-431 is a working system of actual components so students can visualize the mechanical operation of an open differential and make your life easier as an instructor. The EC-431 provides an easy method of demonstrating differential operation and also the common adjustments made during common service procedures.

Features

- Provides full visibility and accessibility to all components without the limitations of working under a vehicle
- Takes the mystery out of differential operation
- Sits on a bench or tabletop to allow more student access and visibility of component operation
- Demonstrates how movement of the differential components affect adjustment
- Cutaway assembly to easily show components
- Uses repurposed "real" automotive components
- Engages multiple students for operation of trainer
- Provides ability to:
  - Make and check common adjustments
  - Visualize differential gear movement

Physical Specifications

- Dimensions: 18" L x 18" W x 11.5" H (45 x 45 x 28.75 cm) / 20" L x 20" W x 13" H (50 x 50 x 32.5 cm) w/packaging
- Weight: 87 lb (39.5 kg) / 90 lb (40.9 kg) w/packaging

Educational Advantages

- Provides component identification exercises for students
- Allows demonstration of proper design and location of common differential parts and components
- Instructors can easily demonstrate the operation of a typical differential
- The EC-431 provides hands on learning by moving the pinion gear in and out of mesh with the ring gear and allows adjustment of the ring gear position by changing the backlash using hand adjustments
- The trainer also provides visualization of:
  - Backlash adjustment
  - Pinion depth position
  - Calculating gear ratio