



### Educational Advantages

- Allows instructional demonstrations to students without access limitations of a complete vehicle
- Engine systems respond to inserted faults with real world symptoms, DTC's, scan tool PID's and check engine light operation
- Included PCM break out box allows easy access for component testing without disconnecting connectors
- No simulation. All original OEM components are used
- Available with two HVAC options - (with or without clear sight glasses & pressure gauges) (See OPTIONAL EQUIP)
- Provides a fully functional recycled engine with selectable and repeatable faults for student learning and diagnosis
- Promotes student "ownership" and engagement with "hands-on" learning with real components

### Application

- 2012-2015 Honda Civic with specific vehicle VIN number provided

The ConsuLab EM-140C-HN01 engine trainer is a fully functional recycled engine mounted on a mobile stand. The trainer is based on a 2012-2015 Honda Civic 1.8L global vehicle platform.

The trainer has easy access for service procedures of all major components. Wire colors and connectors match OEM configuration and service information.

Trainer is mounted on a mobile stand constructed of powder coated 2" square steel tubing equipped with four 5" phenol casters (2 fixed and 2 swivel w/locks) for easy transport.

Many ASE Education Foundation tasks can be performed with this trainer pertaining to areas A6 (Electrical) & A8 (Engine Performance). (see operation manual for list)

Full protection safety guards are installed covering all rotating components.

### Features

- i-VTEC technology Turbocharger
- Port fuel injection fuel system
- R18Z4 Engine technology
- Dual CVVT (Camshaft variable valve timing)
- OEM EVAP system
- Electronic Throttle Control
- OEM EGR valve system
- Wide-Band Lambda sensor
- CAN Bus network
- Functional OEM instrument panel



### Standard Equipment

- Honda Civic 1.8L 4-cylinder engine
- Automatic transaxle
- OEM instrument cluster
- OEM EVAP system
- OBD-II DLC connector
- PCM breakout box with OEM terminal I.D.
- Manual fault box with 12 insertable faults
- Automatic regulated battery charger
- Emergency stop button
- 12V battery
- Fuel tank with OEM Fuel Pump and wiring
- Exhaust system with catalytic converter
- Safety covers for all rotating components
- Protective instrument panel cover
- HD 2" powder coated square tubing mobile stand with 5" phenol casters (2 fixed & 2 swivel w/locks)
- One OEM ignition key included

### Optional Equipment

- Electronic programmable fault box with 16 faults & capable of programming both constant and intermittent faults with remote control via USB cable
- Heat & A/C system (H-Block TXV) **without** clear sight glasses or pressure gauges
- Heat & A/C system (H-Block TXV) **with** clear sight glasses or pressure gauges
- Coolant flow sight glass
- Vinyl dust cover
- Fork lift bars
- Transport handle
- Scan tool tray
- Additional OEM ignition key

### Physical Specifications

- Dimensions: 64.25" L x 40" W x 60" H (163.2 x 101.6 x 152.4 cm) / 67" L x 48" W x 62" H (170.2 x 121.9 x 157.5 cm) w/packaging
- Weight: 806 lb (365 kg) / 950 lb (431.9 kg) w/packaging