

# Diesel Engine Demonstrators

Educational Training Equipment for the 21st Century

Bulletin 192-100B

## Diesel Engine Cutaways

### Purpose

Hampden Diesel Engine Cutaways demonstrate the internal operation of various diesel engines.

### Description

The interior areas of the engine are color coded to show the various systems. Colors used include:

- Red – *Lubrication*
- Green – *Coolant*
- Yellow – *Fuel*
- Light Blue – *Combustion, Air*
- Dark Blue – *Power Train*
- Orange – *Exhaust*

The engines are mounted on stands with casters and are motorized so that the internal parts rotate at approximately 3 RPM. The motor is enclosed with a decorative base cover and the drive mechanism is in an area not visible.

All bearing areas in the engine have been replaced with nylon bearing material to prevent the need for lubrication.

The cutaway areas on the engine are protected with clear plastic. This is a safety measure. The panels can be removed, if necessary.

The engines are finished in a show quality, high gloss paint using a customer specified color.

All rough casting areas on standard production parts have been removed.

Exterior pulleys, bolts, and some tubing are chromed.

An identification plate with the engine specifications is mounted on the base.

These cutaways are available for various engines including:

#### Cummins

- H-CD-46B-CA (4 cycle, 6 cylinder "B")
- H-CD-46C-CA (4 cycle, 6 cylinder "C")

#### Detroit

- H-DD-24-CA (2 cycle, 4 cylinder)
- H-DD-48-CA (4 cycle, 8 cylinder)
- H-DET-8V-92TA-CA

#### John Deere

- H-JD-44-CA (4 cycle, 4 cylinder)

#### General Motors

- H-GM-48-CA (4 cycle, 8 cylinder)

#### Caterpillar Engines

- H-CAT-3116-CA (4 cycle, 6 cylinder)
- H-CAT-C7-CA (5 cycle, 6 cylinder)



Model H-CD-46B-CA



Model H-CD-46C-CA



Model H-CAT-3116-CA



Model H-DET-8V-92TA-CA

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION