MEGATECH

Accredited Training Provider

Diesel Engine Performance Trainer
CUMMINS ISB 6.7L CM2350
Model: MEG320

DESCRIPTION:

The MEG320 diesel engine performance program is a fully operational Cummins ISB 6.7 diesel engine on a test stand built to meet all diesel engine performance and repair tasks. Completely operational and safe, the exposed engine makes this trainer easy to work with. All major components, wiring and connectors match OEM configurations for easy diagnosis.

INCLUDES THE FOLLOWING VEHICLE SYSTEMS:

- Diesel Exhaust Fluid Tank (DEF)
- Diesel Particulate Filter (DPF)
- Cooled Exhaust Gas Recirculation (EGR)
- Selectrive Catalytic Reduction (SCR)

STANDARD FEATURES:

- Cummins ISB 6.7L Diesel Engine
- 100% Fully Functional
- Dynamic Faulting System
- Non-invasive Breakout Box
- Instrument Panel w/ Murphy Box
- OEM Cummins ECM and wiring
- Charging/Cranking System
- Exhaust system
- Custom Engine Stand
- Heavy duty locking casters
- OEM Maintenance Manuals
- VGT Turbocharger
- Cooling System
- Radiator and Radiator Bracket
- Fuel Cell w/ Fuel Lines
- Cummins Direct Flow air filter
- Regulated Battery Charger/Battery Tray
- Peterbilt Factory Electrical Training Program

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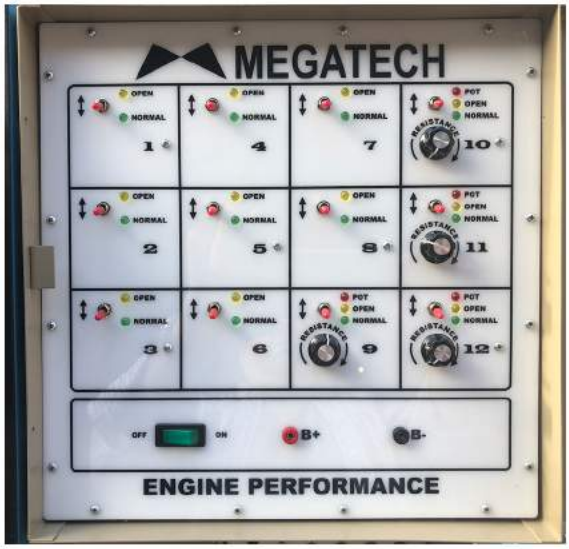
ENGINE TEST STAND:
The engine mount to be a heavy duty test stand, constructed from a minimum of 3" heavy duty gauge mechanical tubing frame, 1/8 inch wall (11 gauge), welded at all joints and having a special pair of universal engine mounts pre-drilled to accept several different types of engines. The stand is to accommodate a heavy-duty radiator mount with varied positioning slots and sliding brackets positioned in the front of the engine test stand. The engine stand must be painted with commercial grade powder coat or OEM paint. On each of the four corners of the engine mount, lockable casters are to be provided for easily rolling the engine to any location as well as alignment to the dyno. The casters will be 4 inch diameter, 2 inch wide Phenolic black wheel with 5 5/8 load height.

INSTRUMENT PANEL:
The instrument panel is constructed form 16 gauge steel, 24" L x 28" W and is fully wired to the engine and to the electrical system. A silkscreen plastic panel is mounted to the frame that includes the Murphy Box, J1939 DLC, ignition key and other necessary guages. The instrument panel also includes the throttle pedal assembly.

Instrument Panel w/ Throttle Assembly

DYNAMIC FAULT INSERTION DEVICE:
The trainer will have a Fault Insertion Module feature, allowing the instructor to create faults in the engine control system. A bank of toggle switches will be mounted in a lockable protective enclosure whereby the instructor will be able to fault circuits. The minimum requirement will be 12 faults but is capable of having up to 20 different faults.

The module is mounted on the stand and connected, ready to operate. It will include but not be limited to a bank of toggle switches, potentiometers and rocker switches with tip jack connectors. Each switch will have the capability of producing both “CODE” and “NON-CODE” faults on computer controlled engines. The simulator will be capable of faulting circuits or components such as injectors, IAC, TPS, MAP, CTS, and various other circuits, while providing non-invasive test points for use with a Digital Multimeter.



Dynamic Fault Box

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BREAKOUT BOX:
A separate 36 pin breakout device s with proper tip jacks silk screened with the correlating pin connector mounted on the trainer for non-invasive DMM testing

NATEF WORKSHEETS:
Individualized worksheets will be included that match the exact fault as input on the fault box. Each work-sheet shall identify the NATEF tasks associated and the proper diagnostic procedures required to correct the problem.

INSTRUCTIONAL REFERENCE MATERIAL:
Included is the manufacturer's Service Manual as well as the product's Owner's Manual.

TRAINING AND SERVICE REQUIREMENTS:
If training/service is required, Megatech is an ASE CASE certified training provider.

SPECIFICATIONS:
Approx. Size: 150" x 48" x 60" (Cm: 381 x 122 x 153)
Approx. Weight: 7,000 lbs. (3,175 Kg)

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