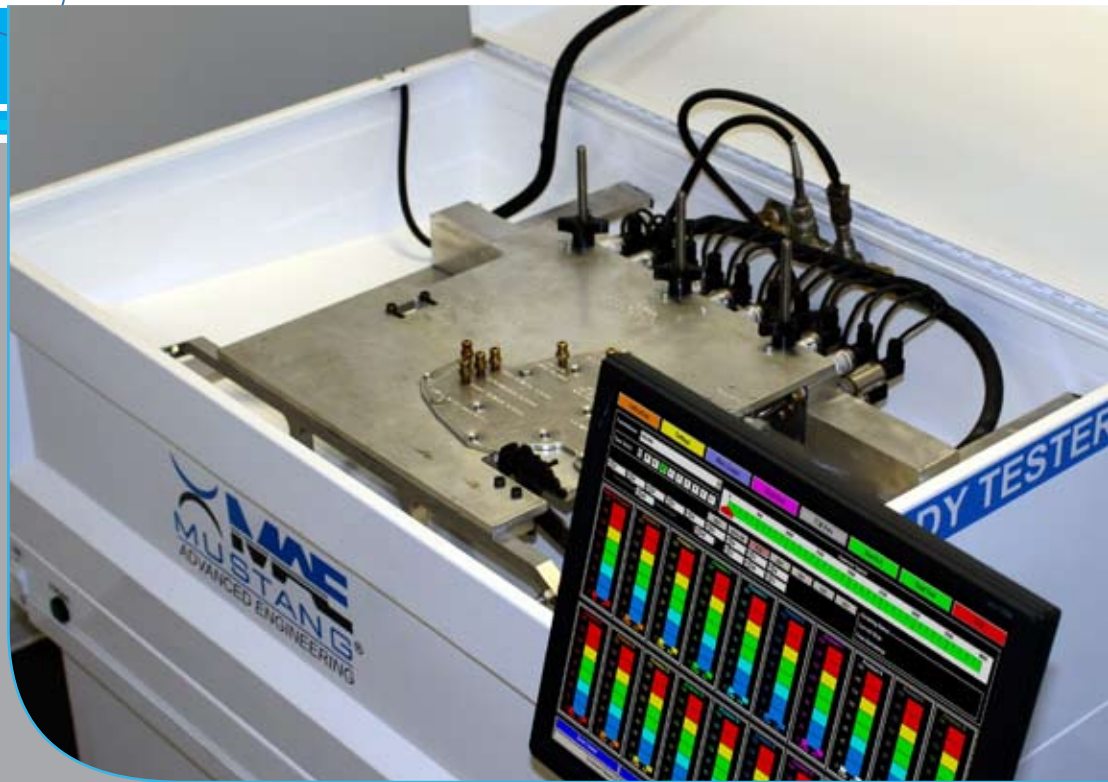
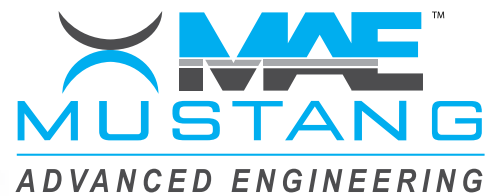


Transmission Valve Body Tester



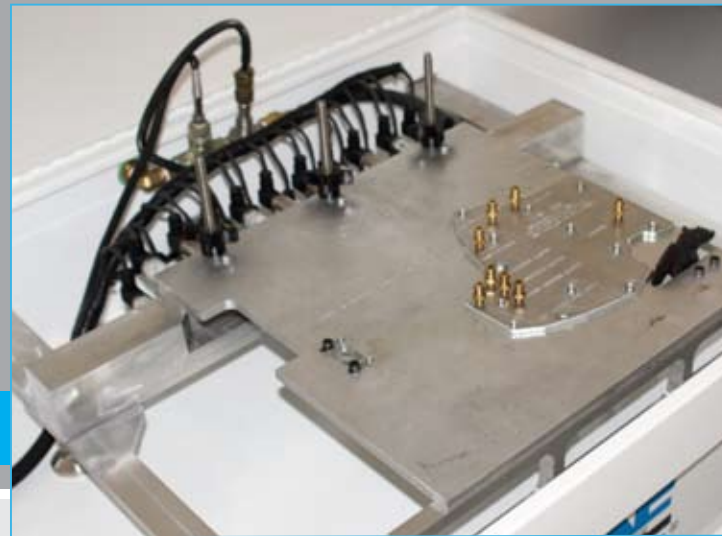
Smarter By
Design



A better way to test your transmissions valve bodies - Mustang's MAE-VBT - Smarter by Design.



Mustang's MAE-VBT Valve Body Tester is the most advanced valve body tester in the industry. With a host of features, this unit will simulate operating conditions more accurately and precisely than any other system in the marketplace. The MAE-VBT will reduce your rebuilding labor time for mechanical valve bodies by helping adjust shift points prior to installing the valve body. Accurate adjustments are easily made to full throttle upshifts, downshifts and closed throttle upshifts and downshifts.



The MAE-VBT has touch screen controls and control PC included as a standard feature.

Easy access door with heavy-duty hinges make loading and unloading test plates simple and convenient.

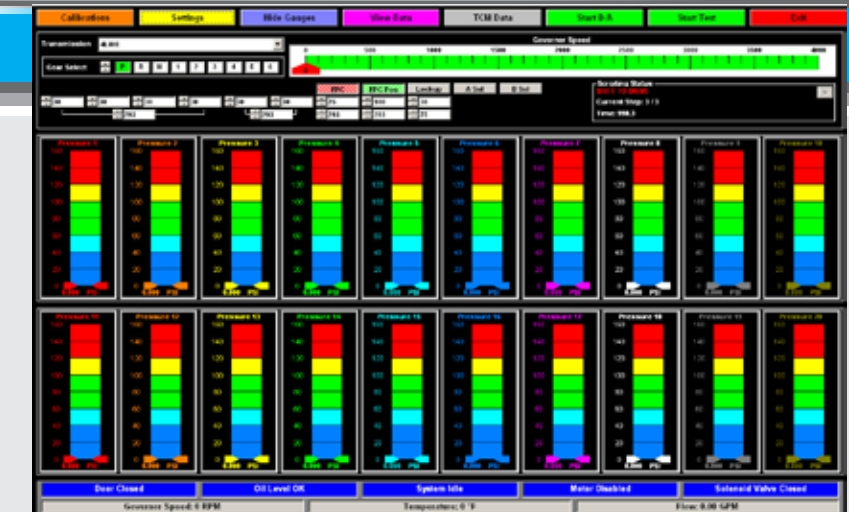


System electronics are neatly enclosed below with another easy access door.

The oil pump and reservoir tank are easily accessible too, making cleaning and maintenance less of a hassle.

VBT Control Software

Mustang's MAE-VBT Valve Body Tester comes standard with everything you need to operate the test system, including the control and data acquisition PC, a machine-mounted touch screen operator interface and MAE's Valve Body Tester Control Software package. Mustang's in-house software developers designed the operating software to allow precise adjustments to shift patterns or schedules as well as to include the flexible tools needed to allow the system to expand with your needs. The software includes a custom Script Builder tool that allows you to modify existing programs to handle new plates without the need for continuously upgrading the software. The MAE-VBT electronic controller can be easily modified using the Transmission Shift Editor to allow you to add new programs, new solenoids, and new/future transmissions - giving you all the flexibility and capability you need to expand the systems to meet your ever-changing needs.



The Operator Interface Screen

The main interface screen is the primary screen that is used for performing valve body testing operations. The included transmission selection drop down box, gear selector, solenoid on/off buttons, duty cycle, and frequency apply to electronically shifted valve bodies. The governor speed slider controls the speed of the motor that operates the governor tester for non-electronically shifted valve bodies. A "Scripting Status" box provides information on any currently running test script and includes an arrow ">", that allows the operator to skip to the next step in a scripted sequence without allowing the current step's time to elapse. Each vertical gauge corresponds to one of the twenty pressure transducers available. The status of digital inputs and outputs are displayed in a status bar directly beneath the gauges panel, and governor speed, fluid temperature, and flow are displayed at the bottom of the screen.

Key features & benefits:

- Touch screen controls and computer included.
- Electronic shift controller included.
- Regulated hydraulic pressure.
- Motorized rotation of the governor.
- Customize shift patterns and schedules with Shift Table Editor.
- Control frequency from 15 Hz to 50.5 KHz. Most competitive systems only control frequency to 2KHz. Newer solenoids require 5-6 KHz.
- Reads the current with 10 bit resolution, which is 4Xs better resolution than competing 8 bit system.
- Easy access to all areas of the machine.
- Easy calibration.
- Existing plates from other suppliers can be used - optional adapter manifold available.

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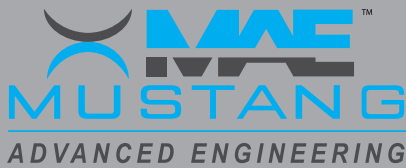
Script Builder

Using the Script Builder an operator can define a test sequence consisting of one or more steps, each consisting of a governor speed and/or gear range selection, a step prompt, a list of reported channels with associated minimum and maximum criteria, and a step time. A script may be modified from an existing script, saved and executed from the main test screen by clicking the "Start Test" button.



Shift Table Editor

Mustang's Shift Table Editor allows an operator to define the logic used to shift electronically shifted valve bodies. Each solenoid can be set to either be on positive, on negative, or off. A solenoid's state in a particular gear can be changed using the mouse buttons, and each output can be labeled using the "Name" field. The first nine pulsed outputs may also have a default duty cycle and frequency defined, which can be changed by the operator while testing.



Specifications



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MAE-VBT Valve Body Tester	
System Features:	8 GPM @ 1,000 psi Manual gear selector and hydraulic modulator control Temperature controlled test oil 15 gallon reservoir- low oil cut-off switch and heating element 16 industrial grade, pressure Transducers Governor pressure regulator valve Structural steel, free standing cabinet Fast adapter model changeover offers precision repeatability Modulated lock-up and hold regulator Independent governor test capability (optional) Valve body and separator plate can be tested as one unit
Power Requirements:	230 VAC, Single Phase, 50/60 Hz
Gauges:	16 pressure transducers 1 temperature sensor 1 flow sensor
Governor Testing:	Governor Test System with digital tachometer and programmable speed control (0-4000 RPM) Digital tachometer displays output shaft speed accuracy to +/- 2 RPM
Options:	Automatic clamping system for high throughput testing Conversion kit to allow use of existing plates from other manufacturers. The MAE-VBT can be equipped with electronic controls to test Allison Generation 4 1000/2000 series and 3000/4000 series valve bodies. Governors can be tested by using an optional adapter plate.