

# MODEL 255 VALVE BODY TEST STAND



# Model 255 Valve Body Test Stand

Because it can simulate actual operating conditions, the AIDCO Model 255 Valve Body and Governor Test Stand performs with exceptional accuracy. A wide variety of operating conditions are created by combining electronic shift control components, shift selector and modulator controls, hydraulic oil pressure and motorized rotation for the governor. Using these controls, shift schedules can be customized to provide optimum transmission performance in every application.

As AIDCO continues to meet the needs of a changing market, the Model 255 can now be equipped with electronic controls to test valve bodies for Allison Generation 4 1000/2000 series and 3000/4000 series transmissions.

For testing mechanical valve bodies, the Model 255 reduces rebuilding labor time by helping you adjust shift points before you install a transmission valve body. Using the Model 255, you can make accurate adjustments of full throttle upshift schedules. Plus, you'll examine full throttle downshifts and closed throttle upshift and downshift schedules.

With the ability to make precise adjustments of shift schedules for specific applications, you can assemble and calibrate valve bodies as you need them. Governors can be tested as well using an optional adapter block. This eliminates the need for maintaining large stocks of matching valve bodies and governors.

## Specifications:

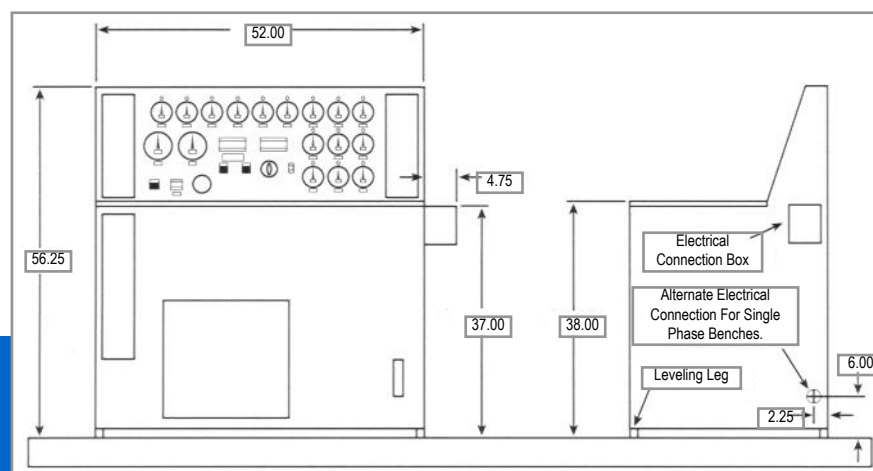
- 6.9 gpm @ 600 psi.
- Convenient external range selector and hydraulic modulator control.
- Filtered and temperature controlled test oil.
- 10-gallon oil reservoir with low oil cut-off switch and heating element.
- Seventeen industrial grade, panel mounted gauges for complete test monitoring.
- Governor pressure regulator valve
- Structural steel, free standing cabinet.
- Heavy duty, hinged, clear poly carbonate lid locks in upright position.
- Fast adapter model changeover offers precision repeatability.
- Two 100mm glycerin damped main and governor pressure gauges.
- Fifteen 60mm pressure gauges for others - including clutch, modulated lock-up and hold regulator.
- Independent governor test capability (optional) with 1:1 and 1:31 drive rotation for easier RPM readings.
- Valve body and separator plate can be tested as one unit.

## Gauges:

- Hold regulator
- Main pressures
- Modulator
- Temperatures
- Governor (optional)
- Modulated lockup
- Forward, low, first, second, third, fourth, fifth and sixth clutch pressures

**12 Month Warranty on Materials and Workmanship**

**The 255 can now be equipped with electronic controls for testing Generation 4 Electronics**



# Adapter Plates & Accessories

**In valve body and governor testing equipment, nobody makes it easier for you to do it right.** A wide selection of available adapter plate systems and accessories lets you customize the Model 255 to test most automatic transmission valve bodies found in on and off-highway equipment in use today.

Using the AIDCO adapter plate system, valve body changeover is fast and simple. A precision ground steel plate locks in place to test most transmission valve bodies. Changeovers are accomplished easily inside the unit via a transparent top lid that locks open for access.



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## Optional Features

Each Model 255 is custom built to your specifications. AIDCO's in-house manufacturing allows for short lead times, allowing you to begin testing as soon as possible. Options range from additional gauges to built in electronic shifting capabilities.

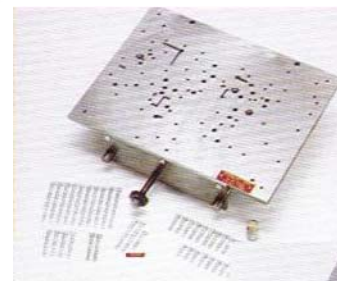
### Built-in Electronic Shifting:

- Allison Generation 4
  - 1000/2000 Series
  - 3000/4000 Series
- World Transmission (WTEC II/III) MD and HD Series
- 1000/2000/2400 Series (pre Generation 4)
- ATEC

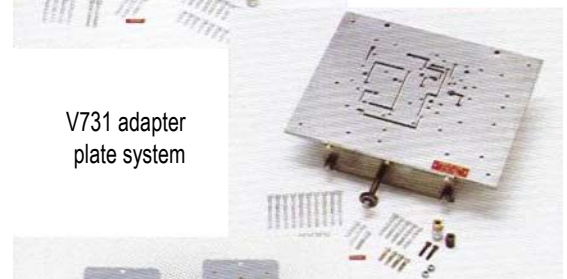
- Solenoid Testing Panel
- Sequencer Panel

### Governor Testing:

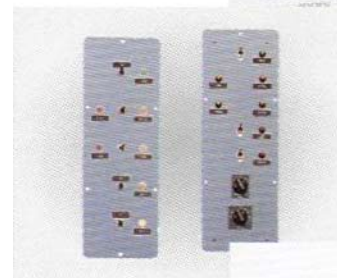
- Governor Test System with Digital Tachometer and Fingertip Speed Control (0-4000 RPM)
- Digital tachometer displays output shaft speed accuracy to +/- 2 RPM
- MTB Governor Drive Fixture



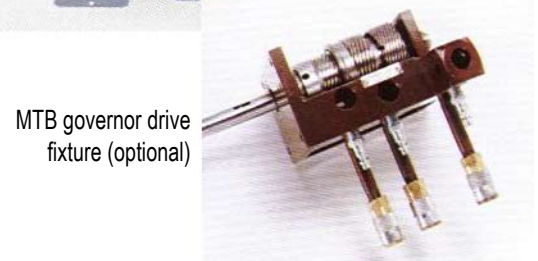
HT700 series adapter plate system



V731 adapter plate system

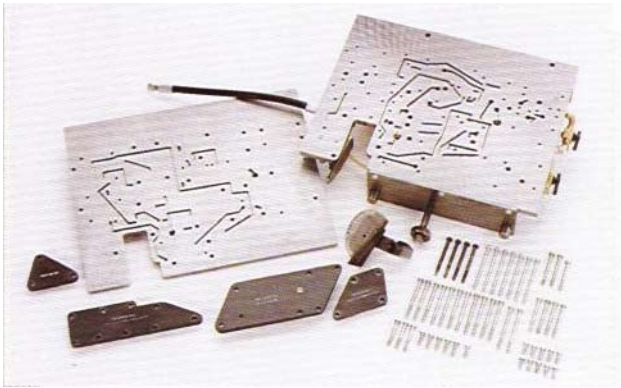


Left:  
Solenoid testing panel  
Right:  
Sequencer panel



MTB governor drive fixture (optional)

# Model 255 Valve Body Test Stand



AT, MT, HT, V-730 adapter plate system

Contact AIDCO Test Systems for information on our full line of transmission testing equipment

## Valve Bodies & Governors Tested on the Model 255

- Generation 4 1000/2000
- Generation 4 3000/4000
- Allison 1000/2000/2400 series
- Allison World Transmission (WTEC II/III) MD series
- Allison World Transmission (WTEC II/III) HD series
- 3L80/ THM400
- 4L80E
- AT500 series
- MT600 series
- HT700 Series
- V730
- V731
- MT 6-speed
- MTB600 series governor
- TX100
- TX200
- Allison CD850
- Voith 851.2/854.2



In addition to the Model 255 Valve Body Test Stand, AIDCO manufactures a wide range of transmission testing equipment, including electronic shift consoles, transmission test stands, and hydraulic test stands.

**AIDCO TEST SYSTEMS** - a division of Power Test Incorporated

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