

Engine Diagnostic Equipment

Engine Diagnostic Equipment

Mityvac has long been an industry leader in vacuum related engine performance and diagnostic test equipment. In addition to the original Mityvac automotive vacuum test kits, we offer an outstanding selection of cylinder compression and fuel system pressure test kits to meet the needs of professional service technicians worldwide.

MV5532 Digital Compression Test Kit

This comprehensive gasoline engine compression test kit features an electronic tester that memorizes the peak compression value for each cylinder. When testing is complete, the values can be quickly reviewed at the push of a button. Everything is included to perform wet and dry compression tests commonly used to detect ring or cylinder head problems, sticking valves, blown head gasket(s) and more. Includes adapters for use on motorcycles and marine and small engines, and an air-hold adapter for performing valve seal repairs without removing the cylinder head(s). Not for use on diesel engines.

Features:

- Stores maximum compression value for up to 12 cylinders
- Backlit LC display is easy to read from any angle and in any light
- Uses standard 9V battery for convenience and cost
- Automatically shuts off after 3 minutes of non-use (memory is retained)
- Rubber boot protects the gauge from bumps and drops
- Sealed, grease- and oil-resistant gauge face prevents contamination of electronics
- Displays values in PSI, Bar and kPa

Includes:

- Digital compression tester comprising of test gauge with rubber boot, 10" (250 mm) high-pressure hose and female quick-change coupler
- 14 mm standard reach thread x 6.5" (165 mm) hose adapter
- 14 mm standard reach thread x 12" (305 mm) hose adapter
- 14 mm reach thread x 12" (305 mm) hose adapter
- 18 mm standard reach thread x 12" (305 mm) hose adapter
- 18 mm reach male thread x 14 mm standard reach female thread plug adapter
- 16 mm male thread x 14 mm standard reach female thread plug adapter
- 10 mm male thread x 14 mm standard reach female thread plug adapter
- 12 mm male thread x 14 mm standard reach female thread plug adapter
- Air hold adapter
- Field service kit
- Custom-molded case
- User manual (English/French/Spanish/German)

Specifications:

Maximum Pressure:	300 psi (2070 kPa) (20.7 bar)
Packaged Weight:	4.9 lbs (2.21 kg)
Case Size:	15.7" wide x 12.4" tall x 3.2" deep 400 mm wide x 315 mm tall x 82 mm deep

Gas Compression Test Adapters

MVA5501

10 mm male thread x 14 mm standard reach female thread

MVA5502

12 mm male thread x 14 mm standard reach female thread

MVA5503

18 mm long reach male thread x 14 mm standard reach female thread

MVA5504

14 mm standard reach thread x 12" (305 mm)

MVA5506

14 mm long reach thread x 12" (305 mm)

MVA5507

16 mm male thread for Ford Triton engines x 14 mm standard reach female thread

MVA5508

14 mm standard reach thread x 6.5" (165 mm)

MVA5509

18 mm standard reach thread x 12" (305 mm)

MVA5510

Air Hold Adapter



MV5532



MVA5501



MVA5507



MVA5502



MVA5508



MVA5503



MVA5504



MVA5509



MVA5506



MVA5510

See pages 5 – 6 for our line of Hand Vacuum Pump Automotive Test Kits

Engine Diagnostic Equipment

05530 Compression Test Kit

This comprehensive kit includes everything required to perform dry and wet engine cylinder compression tests commonly used to detect ring or cylinder head problems, sticking valves, blown head gasket(s) and more. Includes adapters for use on motorcycles, marine and small engines and an air-hold adapter for performing valve seal repairs without removing the cylinder head(s). Not for use on diesel engines.

Features:

- Manual pressure release for maintaining peak readings
- Professional-grade threaded adapters for leak-proof seals
- Extended hoses for hard-to-reach applications
- Large, easy-to-read 2³/₄" (70 mm) diameter gauge
- Adapters to fit engines as small as lawn mowers, chain saws and trimmers
- Quick-disconnect coupler for easy accessory changes

Includes:

- 2³/₄" (70 mm) gauge with high impact lens, rubber boot, and four (4) scales of measure (psi, kg/cm², bar, kPa), attached to 10" (250 mm) hose and quick release coupler
- 14 mm short-thread adapter with 6¹/₂" (165 mm) and 12" (305 mm) hoses
- 14 mm long-thread adapter with 12" (305 mm) hose
- 18 mm short-thread adapter with 12" (305 mm) hose
- 14 mm short-thread x 18 mm long-thread adapter
- 10 mm thread small engine adapter
- 12 mm thread small engine adapter
- Quick-release air hold adapter
- Custom blow-molded case
- Field service kit
- User manual (English/Spanish/French)

Specifications:

Packaged Weight:	3.5 lbs (1.6 kg)
Packaged Size:	14.5" wide x 8" tall x 2.7" deep (370 mm wide x 205 mm tall x 70 mm deep)
Max. Pressure:	300 psi (21kg/cm ²) (20.5 bar) (2,070 kPa)



05530

05520 Compression Test Kit

Designed for dry and wet automotive cylinder compression testing to detect ring or cylinder head problems, sticking valves, blown head gasket(s) and more. Pressure gauge has a large easy-to-read face, and includes hose and adapters for testing engines with 14 mm and 18 mm short thread and 14 mm long thread spark plugs. Not for use on diesel engines.

Features:

- Manual pressure release for maintaining peak readings
- Large easy-to-read gauge face with multi-colored scales
- Professional-grade threaded adapters for leak proof seals
- Quick-disconnect coupler speeds up cylinder changes

Includes:

- 2³/₄" (70 mm) diameter Bourdon tube gauge (readings indicated in four (4) scales of measure (bar, psi, kPa, and kg/cm²) with pressure release and quick-change coupler.
- 14 mm and 18 mm short-thread adapter with 15" (380 mm) hose
- 14 mm long-thread adapter
- User manual (English/Spanish/French)

Specifications:

Packaged Weight:	1.0 lb (0.45 kg)
Size:	5" wide x 12" tall x 1 ³ / ₈ " deep (125 mm wide x 305 mm tall x 35 mm deep)
Max. Pressure:	300 psi (21 kg/cm ²) (20.5 bar) (2,070 kPa)



05520

Engine Diagnostic Equipment



05525

05525 Compression Tester

This quick-test style tester does not require threading into the spark plug hole, making it an ideal, economic solution for quickly diagnosing engine compression problems such as worn piston rings, sticking or burnt valves, blown head gasket(s) or carbon build-up in cylinders, on cars and small engines. Not for use on diesel engines.

Features:

- Large easy-to-read pressure gauge
- Universal rubber adapter fits virtually any size spark plug hole
- Manual release valve holds peak pressure readings for easy recording
- Small compact unit fits conveniently into tool box

Includes:

- 2³/₄" (70 mm) diameter Bourdon tube gauge (readings indicated in four (4) scales of measure: bar, psi, kPa, and kg/cm²) with pressure release, quick-change coupler and stem with universal rubber spark plug hole adapter and manual release pressure valve
- User manual (English/Spanish/French)

Specifications:

Packaged Weight:	6.7 oz (190 g)
Size:	6" tall x 2 ³ / ₄ " dia. (150 mm tall x 70 mm dia.) gauge
Max. Pressure:	300 psi (21kg/cm ²) (20.5 bar) (2,070 kPa)



05515



05515 Fuel Injection Pressure Test Kit

An essential tool for diagnosing many fuel injection problems including leaking or clogged injectors, fuel rail deterioration, clogged fuel filter and fuel pump malfunction. Kit includes adapters for GM, Ford, Chrysler, Jeep and Eagle multi-port fuel injection systems with fuel rail test ports.

Features:

- Large, easy-to-read gauge with 0 - 100 psi (0 - 700 kPa) scale
- Manual pressure release
- High-pressure braided hose with solid brass fittings

Includes:

- 2³/₄" (70 mm) diameter Bourdon tube gauge (readings indicated in psi and kPa) with manual pressure release, 15' (380 mm) braided hose and GM/Chrysler adapter
- Ford adapter
- 6' (1.8 m) fuel drain hose
- User manual (English/Spanish/French)

Specifications:

Packaged Weight:	1.0 lb (0.45 kg)
Packaged Size:	5" wide x 12" tall x 1 ³ / ₈ " deep (125 mm wide x 305 mm tall x 35 mm deep)
Max. Pressure:	100 psi (700 kPa)

05511 Vacuum/Pressure Gauge and Fuel Pump Tester

Designed for performing pressure and vacuum tests on mechanical and electrical fuel pumps (up to 10 psi), this valuable instrument can also diagnose a wide variety of engine problems including improper valve timing, burned, chipped or stuck valves, sticking choke, leaking manifold, improper fuel mixture and more. The detailed gauge face illustrates normal and abnormal ranges of vacuum, and provides input for diagnosing common malfunctions.

Features:

- Large 3¹/₂" (90 mm) diameter gauge indicates both pressure and vacuum
- Gauge face illustrates normal and abnormal operating ranges, and provides input for diagnosing common malfunctions
- Includes instructions for testing and diagnosing fourteen (14) critical engine and fuel pump functions

Includes:

- 3¹/₂" (90 mm) compound gauge (readings indicated in psi, kg/cm², in. Mercury (Hg), and cm Mercury (Hg)) with barb fitting
- 24" (610 mm) oil-resistant hose
- Universal fuel line adapter
- Tapered adapter
- Tee adapter
- User manual (English/Spanish/French)

05511



Specifications:

Packaged Weight:	12.3 oz (350 g)
Packaged Size:	5" wide x 12" tall x 1 ³ / ₈ " deep (125 mm wide x 305 mm tall x 35 mm deep)
Max. Pressure:	10 psi (0.7 kg/cm ²)
Max. Vacuum:	28 in. Hg (70 cm Hg)

See pages 5 – 6 for our line of Hand Vacuum Pump Automotive Test Kits

Engine Diagnostic Equipment

MV5535 Digital Diesel Compression Test Kit

This comprehensive diesel engine compression test kit features an electronic tester that memorizes the peak compression value for each cylinder. When testing is complete, the values can be quickly reviewed at the push of a button. The kit also includes two (2) injector adapters and four (4) glow plug adapters for testing most modern diesel cars and light trucks sold in the United States.

Features:

- Stores maximum compression value for up to 12 cylinders
- Backlit LC display is easy to read from any angle and in any light
- Uses standard 9V battery for convenience and cost
- Automatically shuts off after 3 minutes of non-use (memory is retained)
- Rubber boot protects the gauge from bumps and drops
- Sealed, grease- and oil-resistant gauge face prevents contamination of electronics
- Displays values in PSI, Bar and kPa

Includes:

- Digital compression tester comprising of test gauge with rubber boot, 15" (380 mm) long, high-pressure hose, quick-change coupler
- Injector Adapter (Dodge 24V 5.9L Cummins (1999-2003), 5.9L Cummins ISB and ISBE)
- Injector Adapter (Case/Cummins Series "B" 2.9L, 3.9L, 5.9L through 1998)
- Glow Plug Adapter (GM 4.3L, 5.7L (1978-1985), Navistar 6.9L, 7.3L through 1994)
- Glow Plug Adapter (GM 6.2L, 6.5L V8)
- Glow Plug Adapter (Ford/Navistar 7.3L Power Stroke (1994-2003))
- Glow Plug Adapter (Volkswagen 1.9L TDI)
- Right-angle Adapter
- Field service kit
- Custom-molded case
- User manual (English/French/Spanish/German)

Specifications:

Maximum Pressure:	1,000 psi (6890 kPa) (68.9 bar)
Packaged Weight:	5.2 lbs (2.36 kg)
Case Size:	15.7" wide x 12.4" tall x 3.2" deep (400 mm wide x 315 mm tall x 82 mm deep)



MV5535

MV5536 Digital Diesel Compression Tester

The Mityvac MV5536 electronic diesel compression tester memorizes the peak compression value for up to 12 cylinders. After testing, the values can be quickly reviewed at the push of a button. Capable of testing compression up to 1,000 psi (6890 kPa) (68.9 bar). The tester features a backlit LC display that is easy to read in any light. Its oil- and grease-resistant gauge face and rubber boot make it durable, and the custom case has room for storing adapters.

Features:

- Stores maximum compression value for up to 12 cylinders
- Backlit LC display is easy to read from any angle and in any light
- Uses standard 9V battery for convenience and cost
- Automatically shuts off after 3 minutes of non-use (memory is retained)
- Rubber boot protects the gauge from bumps and drops
- Sealed, grease- and oil-resistant gauge face prevents contamination of electronics
- Displays values in PSI, Bar and kPa

Includes:

- Digital compression tester comprising of test gauge with rubber boot, 15" (380 mm), high-pressure hose and quick-change coupler
- Custom-molded case
- User manual (English/French/Spanish/German)

Specifications:

Maximum Pressure:	1,000 psi (6890 kPa) (68.9 bar)
Packaged Weight:	2.5 lbs (1.11 kg)
Case Size:	12.5" wide x 8.4" tall x 3.8" deep (315 mm wide x 210 mm tall x 95 mm deep)



MV5536

See page 19 for diesel adapters sold separately

Engine Diagnostic Equipment



MV5534

MV5534 Analog Diesel Compression Tester

The Mityvac MV5534 diesel compression tester features an accurate glycerin-filled gauge capable of testing cylinder compression up to 1,000 psi (6890 kPa) (68.9 bar). It has a long 15" (380 mm) high-pressure hose with a quick-change coupler for getting into extremely tight areas. It also features a push-button pressure relief valve for running consecutive tests without disconnecting the gauge. The tester comes in a custom-molded case with extra storage space for adapters.

Features:

- Heavy-duty gauge is glycerin filled to dampen needle bounce
- Push-button pressure relief allows repeated tests without disconnecting the tester
- Quick-change coupler is convenient for getting into tight spaces
- Rubber boot protects the gauge from bumps and drops
- Units of measure include PSI, kg/cm² and Bar
- Includes custom-molded case with extra space for adapters

Includes:

- Compression tester comprising of glycerin-filled test gauge with rubber boot, 15" long (380 mm long) high-pressure hose and quick-change coupler
- Custom-molded case
- User manual (English/French/Spanish/German)

Specifications:

Maximum Pressure:	1,000 psi (6890 kPa) (68.9 bar)
Packaged Weight:	2.5 lbs (1.14 kg)
Case Size:	12.5" wide x 8.4" tall x 3.8" deep (315 mm wide x 210 mm tall x 95 mm deep)

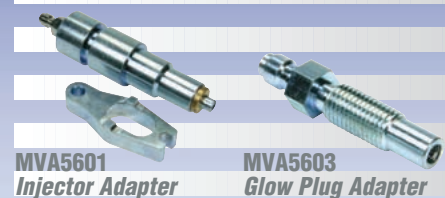
See page 19 for diesel adapters sold separately

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Diesel Compression Test Adapters

Diesel engines utilize a fuel injector on each cylinder to inject fuel for combustion. Although they do not use spark plugs to ignite the fuel, most utilize glow plugs to aid cold starts. In order to access the compression within a cylinder, an adapter is required which replaces either the injector or the glow plug. Mityvac offers injector and glow plug adapters to facilitate testing of most diesel engines in use in cars and light trucks, industry, construction, marine and agriculture. In addition we offer MotoMeter™ and Snap-on™ adapters that allow the use of Mityvac testers with these brands of test adapters. All Mityvac adapters are designed for use with our digital or analog compression testers.

Manufacturer	Adapter No	Model/Engine
Allis-Chalmers	MVA5620	6000, 7000, 10000, 11000
Audi	MVA5622	All U.S. models
BMW	MVA5613	2.4L
J.I. Case	MVA5619	70 Series, 188 & 207 cid w/ pencil-type injector
J.I. Case	MVA5620	70 & 90 series, 1570, 2470, 2480, 4890 engines w/ non-pencil-type injector
Caterpillar	MVA5619	1100 & 3208 series pencil-type injector
Caterpillar	MVA5616	D336, 1674, 1676, 3406, 3408, 3412
Chevrolet	MVA5614	1.8L, 2.2L LUV/Isuzu
Cummins/Case	MVA5602	B series, 2.9L, 3.9L, 5.9L
Cummins/Case	MVA5617	C series, 8.3L
Cummins/Case	MVA5623	NH855, V6, V8, V12, 903 V8, L10
Cummins	MVA5615	V-185, V-210, V-225, V-555, VT-255, VT-555
Cummins	MVA5622	6BT, 4.02" bore, 5.9L
Detroit Diesel	MVA5621	53, 71, 92, 110, 149, V53, V71
Deutz	MVA5613	Most models
Dodge	MVA5602	5.9L, 12V Cummins (1989-1998)
Dodge	MVA5601	5.9L, 24V Cummins (1998-2005)
Fiat Allis	MVA5620	8035-02-300, 8035-02-301, 8035-02-302, 8045-02, 8045-03
Fiat Allis	MVA5620	Tractor engines
Ford	MVA5612	Escort, Lynx, Tempo, Topaz (1984-85)
Ford	MVA5603	Navistar 6.9L & 7.3L through 1994
Ford	MVA5605	Navistar 7.3L Power Stroke
Ford/Mazda	MVA5612	2.0L & 2.2L Ford products including Ranger
Ford/Mazda	MVA5603	4.3L & 5.7L (1978-85)
GM	MVA5604	6.2L & 6.5L V8
GM	MVA5613	W4, W7, W7HV (GMC Trucks)
GM	MVA5611	Duromax 6600
IHC	MVA5620	D361, DT361 D429, DT429, DV462, DV550, DVT550, DT573, DV573, DVT573, 361, 407
IHC	MVA5614	1.8L, 2.2L
Isuzu	MVA5611	6.6L
Isuzu	MVA5612	NPR, KS, NGR (Trucks)
John Deere	MVA5619	Pencil Injector—Early 300, 400, 500 Series & 276, 404, 531 CID engines
John Deere	MVA5620	404, 466, 453, 619
Kubota	MVA5612	Some models
Lincoln	MVA5613	2.4L Mark VII, Continental (1984-85)
Lincoln	MVA5612	Mark VII, Continental w/ Volvo engines
Mack	MVA5620	END 405, 457, 475, 510, 605, 672, 673, 674, 711, 864 & ENDT 673, 675, 676, 865, 866
Mercedes	MVA5622	Cars & trucks w/ 24 mm ports
Mercedes	MVA5613	250, 300, 300 Turbo, 350 Turbo
Mitsubishi	MVA5612	2 & 3 cylinder engines, some Fuso
Navistar	MVA5618	DT360, DT466, 9.0L, 312, 360, 414, 436, & 446 cid up to 1997
Nissan	MVA5612	2.2L & Medium UD truck
Onan	MVA5620	DSL, MDL
Perkins	MVA5620	4.203, 4.236, 4.248, 6.354, 8.540
Peugeot	MVA5613	2.3L & 2.5L (1978-86)
Scania	MVA5620	DN11, DS11
Toyota	MVA5614	1.8L
Toyota	MVA5612	2.2L
Toyota	MVA5622	All except 1.6L & 1.9L TDI
Volkswagen	MVA5606	1.6L
Volkswagen	MVA5613	1.9L TDI
Waukesha	MVA5619	D155D
Waukesha	MVA5620	180DLC, 190D, 195D, 197D
White Farm	MVA5620	66, 77, 88, 99, 166, 177, 188, 199, 550, 660, 770, 880, 950, 1550, 1555, 1600, 1650, 16555, 1750, 17555, 1800, D2000, 2300, 3000
Wisconsin	MVA5620	340, 350, 430, 660, 670, 750, 860, 1000



MVA5601
Injector Adapter

MVA5603
Glow Plug Adapter



MVA5623
Injector Adapter

MVA5604
Glow Plug Adapter



MVA5622
Injector Adapter

MVA5614
Glow Plug Adapter



MVA5621
Injector Adapter

MVA5613
Glow Plug Adapter



MVA5612
Glow Plug Adapter

MVA5620
Injector Adapter



MVA5611
Glow Plug Adapter

MVA5619
Injector Adapter



MVA5605
Glow Plug Adapter

MVA5618
Injector Adapter



MVA5606
Glow Plug Adapter

MVA5602
Injector Adapter



MVA5609
MotoMeter™ Adapter

MVA5617
Injector Adapter



MVA5608
Snap-on™ Adapter

MVA5616
Injector Adapter



MVA5615
Injector Adapter

MVA5607
Right Angle Adapter