

Eastwood[®]

DO THE JOB RIGHT.[®]

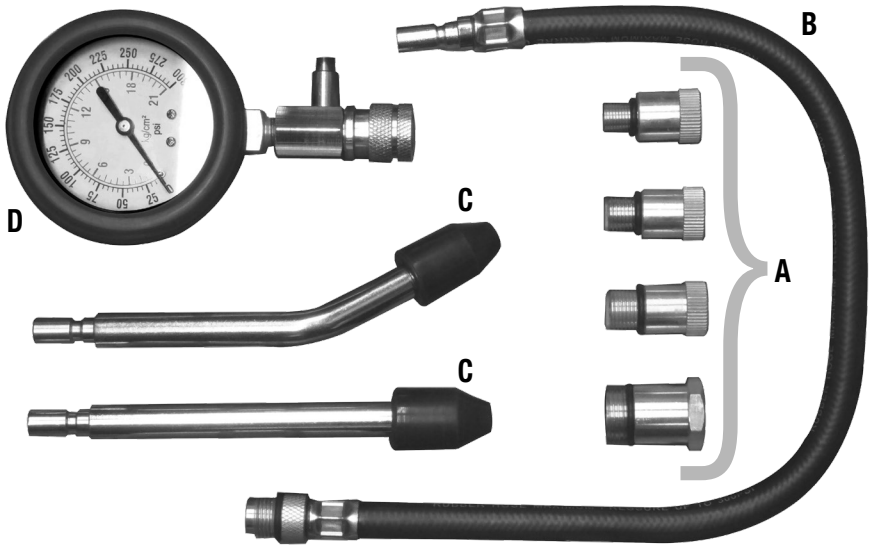
Item #31351

8PC COMPRESSION TEST KIT

INSTRUCTIONS



The **EASTWOOD 8 PIECE COMPRESSION TEST KIT** includes all the components required to obtain accurate cylinder compression readings for diagnosing the internal condition of gasoline engines. Constructed of high-quality brass and steel components, the four most popular spark plug thread sizes are represented in the set along with convenient bung-style adapters for universal use.



CONTENTS

- (4) Spark Plug Thread Fittings (A), M10, M12, M14 & M18
- (1) 20' Hose (B)
- (2) Adapter Fittings with Rubber Bungs (C)
- (1) Compression Gauge (D)
- (1) Heavy-Duty, Blow Molded Case

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ NOTICE

NOTICE is used to address practices not related to personal injury.



⚠ READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using the Compression Tester.
- Keep these product instructions for future reference.



⚠ WARNING IMPROPER MOTOR VEHICLE REPAIR WORK CAN RESULT IN INJURY OR DEATH!

- Performing automotive repair work can cause injury, death and vehicle accidents. DO NOT attempt to use this tool or begin motor vehicle engine work without proper training and a thorough understanding of motor vehicle mechanical systems.
- Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.



⚠ WARNING SUDDEN VEHICLE MOVEMENT CAN RESULT IN INJURY OR DEATH!

- Block vehicle wheels before use. Set parking brake and put gear selector in neutral for manual transmission or park for automatic transmission.
- Immobilize a vehicle before working on it.



⚠ WARNING HEALTH HAZARD!

- Avoid carbon monoxide poisoning!
- Never run a gasoline engine in an enclosed garage or other contained area.

SAFETY INFORMATION



⚠ WARNING FIRE AND EXPLOSION HAZARD!

- Gasoline fumes can be released while cranking engine. Do Not Smoke! No Open Flames! Eliminate possibility of ignition sparks.



⚠ WARNING BURN HAZARD!

- Avoid contact with hot engine components!



⚠ WARNING SHOCK HAZARD!

- Contact with high-voltage ignition current can cause serious injury or death.
- Disable ignition while using the Compression Tester to avoid exposure to high voltage ignition shocks.



⚠ CAUTION INJURY HAZARD!

- Contact with moving or rotating engine components can cause serious injury!
- Keep hands and fingers away from fans, belts and other moving engine components while using the Compression Tester.



⚠ NOTICE

- Using the Compression Tester requires the help of an assistant; a person to operate the starter and another to use the Compression Tester.

OPERATION

- To achieve accurate compression readings, an engine must first be at full operating temperature before taking readings.
- After warming up engine, disable ignition by removing the coil to distributor cable on engines so equipped. Consult an authorized service manual or materials on later model engines.
- Remove the spark plugs from all cylinders. Be sure to note the location of ignition cables to respective cylinders.
- Select the appropriate sized Spark Plug Thread Fitting **(A)** that matches the spark plug threads of the engine and thread the end of the Hose **(B)** into it.
- Thread the Spark Plug Thread Fitting and Hose assembly **(A & B)** into the first spark plug hole and attach the Gauge **(D)** to the quick-disconnect end of the Hose.

NOTE: As an alternative, the Straight or Angled Adapters **(C)** may also be attached to the Gauge **(D)** and used directly by pressing the Rubber Bung against the spark plug hole however best results are achieved with low compression engine use only.

- With the Compression Tester connected to the first cylinder of the engine, crank the engine for 30 seconds.

NOTE: On carbureted engines, the choke and throttle must be held open while cranking to achieve an accurate reading. Consult an authorized service manual or materials on later model and fuel injected engines.

- While the engine is cranking, the Gauge will automatically record the highest compression reading as displayed on the Gauge. Consult an authorized vehicle manufacturer service manual or materials for specified engine compression values.

NOTE: In addition to recording cylinder compression values, further indications about cylinder condition can be obtained by observing the Gauge action while cranking. Normal engine cylinder compression will be indicated with a high initial reading, and a progressive build-up to the final maximum reading. Poor engine cylinder compression will be indicated with a low initial reading, and a much slower build-up to the final maximum reading. The compression readings for all of the engine cylinders should not vary by more than 10%.

- After recording the maximum reading, the pressure may be released and Gauge reset by pressing the Compression Release button on the Gauge **(D)**.
- Disconnect the Compression Tester from the first cylinder and move on to the next cylinder repeating the above steps for all remaining cylinders.

ADDITIONAL ITEMS

- #14534 Eastwood Valve Spring Compressor
- #14533 10pc Bearing & Seal Driver Set
- #46281 Dial Type Cylinder Bore Gauge Kit, 2-6" Range
- #45056 Engine Porting Kit

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: techelp@eastwood.com

PDF version of this manual is available online >> eastwood.com/31351manual

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