

Super Compression Tester Kit Manual



- Tests compression on all major model vehicle platforms, domestic and foreign with gasoline engines, including mini engines
- Quick coupler connection on gauge assembly for fast and easy changing of hose and adapter assemblies
- 2-1/2" gauge has dual scale dial with ranges from 0-300 psi and 0-21 BAR
- · Easy push-button deflator for fast service
- · Rubber gauge boot for added protection

WARNING



Flying particles can cause eye injury

- Wear safety goggles.
- Do not exceed gauge's maximum pressure rating.
- Be sure all connections are secure.
- · Do not use gauge while engine is running.



Clear plastic lens on gauge can break

- Do not drop or hit gauge face.
- Do not use gauge if clear plastic lens is cracked or broken.



Moving parts can cause injury

 Keep yourself, clothing and test equipment clear of moving parts.



Burn Risk

· Do not touch engine components that are hot.



Risk of sudden vehicle movement

· Set vehicle to neutral for a standard

Gasoline Engine Compression Testing

Consult appropriate manufacturer's service manual for compression specifications.

- The battery must be at or near full charge so that the cranking speed on the first cylinder is the same as on the last cylinder. A battery charger may be needed to maintain cranking RPM.
- 2. Idle the engine until operating temperature is reached. Stop the engine.
- 3. Remove all spark plugs and the air cleaner.
- 4. Block wide open the throttle body valve or carburetor throttle and choke plates.
- 5. Disconnect the ignition system using the appropriate method:
 - On point-type ignition systems or electronic ignition systems that have a separate coil; disconnect power to the coil.
 - On GM High Energy Ignition systems: remove the battery supply wire that connects to the distributor.
 - c. On distributor-less ignition: disconnect the ignition module harness' electric plug.
- 6. Thread correct adapter into a spark plug hole, or hold rubber cone of the compression tester in the spark plug hole tightly to prevent leakage. CAUTION: Do not use long reach adapters on engines with standard spark plugs as engine damage may occur.
- Crank engine 6 times or until maximum pressure is reached. Engines with higher compression may require 10 or more cranks, but limit time to fifteen seconds maximum.

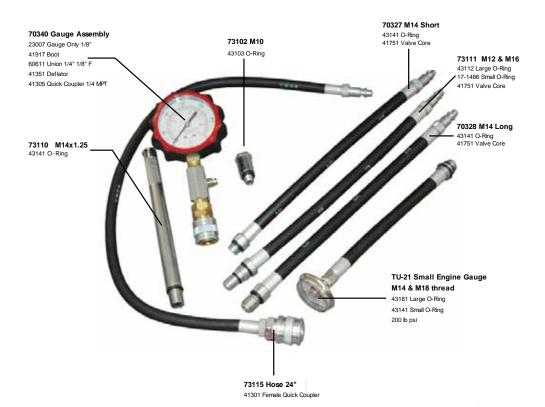
- 8. To retest the same cylinder, or before going to the next cylinder, release the pressure by pushing in the depressor under the gauge.
- 9. Test each cylinder.

IMPORTANT: Engines with aluminum heads require special care to prevent stripping of the spark plug hole threads. Prepare for a compression test by loosening and retightening the spark plugs when the engine is cold. (Aluminum cylinder threads are less likely to strip when the engine is cold.) Before removing spark plugs, always clean dirt from around the plugs. By doing this, proper seating of the compression test adapter and the new spark plugs is ensured. Apply oil to threads and hand tighten when installing/removing compression test adapters.

ADAPTERS / REPLACEMENT PARTS

| 70327 | 14mm hose assembly, short | TU-21 | 1-1/2", 200 PSI gauge and hose |
|-------|----------------------------------|-------|--------------------------------------|
| 70328 | 14mm hose assembly, long | | assembly for small engine testing |
| 70340 | 68mm gauge and hardware assembly | 73102 | 10mm adapter, short thread |
| 71619 | 68mm pressure gauge and boot | 73110 | Adapter extension |
| | assembly, 300 PSI | 73111 | 12 and 16mm hose assembly |
| 41305 | Quick coupler for gauge and | 73115 | 24" hose assembly with quick coupler |
| | hardware assembly | 41301 | Quick coupler for 24" hose assembly |
| 41351 | Deflator for gauge and | 74466 | Repair parts kit |
| | hardware assembly | 42008 | Instructions |
| 60610 | Connector for gauge and | | |
| | hardware assembly | | |





| Part Number | Description |
|-------------|-------------------------|
| 70340 | GAUGE ASSEMBLY |
| 23007 | GAUGE ONLY, 1/8" |
| 41917 | BOOT |
| 60611 | UNION, 1/4" x 1/8" |
| 41351 | DEFLATOR |
| 41305 | QUICK COUPLER, 1/4" MPT |
| 73102 | M10 FITTING |
| 43103 | O-RING |
| TU-21 | SMALL ENGINE GAUGE |
| 73115 | HOSE, 24" |
| 41301 | FEMALE QUICK COUPLER |
| 73110 | M14 x 1.25" FITTING |
| 70327 | M14 SHORT HOSE |
| 41751 | VALVE CORE |
| 70328 | M14 LONG HOSE |
| 41751 | VALVE CORE |
| 73111 | M12 & M16 HOSE |
| 43112 | LARGE O-RING |

| | 74466 | REPAIR PARTS KIT INCLUDES: |
|---|-------|--------------------------------|
| | 41401 | QUICK COUPLER WASHER |
| | 41751 | AIR VALVE CORE x2 |
| ı | 43103 | O-RING, M10 FAT .275 x 1.25 |
| ı | 43123 | O-RING, 9/16" OD x 7/16" ID |
| ı | 43141 | O-RING, M14 .424 ID x .103 x2 |
| | 43181 | O-RING, M18, .549 ID x .103 x2 |