



Mastercool®
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"World Class Quality"

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53551 AUTOMOTIVE A/C LEAK TESTING KIT (R134A/R1234YF)



Precision Testing for the Next Generation of Automotive A/C

The Mastercool 53551 Automotive Tracer Gas Regulator Kit is specifically engineered for automotive technicians who use a nitrogen-hydrogen tracer gas mix to pressure test R134a and R1234yf A/C systems. This complete kit includes a high pressure regulator, couplers, adapters and an advanced combustible gas leak detector making it the ideal solution for professional, non-refrigerant-based leak detection.

The single-stage high pressure regulator includes high-quality components and features a 1/4" FL-M outlet with a CGA350 (US) standard fitting for secure nitrogen-hydrogen tracer gas tank connections. A 38" yellow nylon barrier charging hose, rated for 800 psi working pressure and 4000 psi burst pressure, meets all EPA, SAE, and UL standards for use with refrigerant based repairs. The included leak testing adapter allows for precise pressure monitoring during nitrogen-hydrogen tracer gas insertion, featuring a 1/4" SAE hose connector, integrated pressure gauge (700 psi / 50 bar), and a ball valve for in-line testing.

The Intella-Sense III combustibles gas leak detector detects combustible nitrogen-hydrogen tracer gas by using a heated tin oxide sensor for fast and precise leak testing. The adjustable sensitivity range provides pinpoint accuracy, while the LED display and powerful microprocessor produce intelligent feedback. Eliminating the potential of false alarms is the intelligent tip 15" inch probe with an environment sensing element.

The 53551 is tailored to professionals who rely on accurate, non-refrigerant leak detection using industry-standard nitrogen-hydrogen tracer gas.

FEATURES:

- **R134a and R1234yf Compatible** with the inclusion of low side couplers and adapters for both A/C systems
- **Durable Single-Stage High Pressure Regulator** with 1/4" SAE flare outlet, T-handle and dual gauges
- **Combustible Gas Leak Detector** capable of detecting nitrogen-hydrogen tracer gas
- **Heated Tin Oxide Gas Sensor** with a response time of less than 1 second
- **Pressure Testing with Nitrogen-Hydrogen Tracer Gas** making it ideal for modern automotive leak testing without using refrigerant

KIT CONTAINS:

53010-TG-AUT Automotive Tracer Gas Kit for R1234yf/R134a (which includes 47382 38" yellow charging hose, 53042 leak testing adapter, 82934-E low side manual R134a quick coupler (1/4" FL-M x 13 mm), 83934 low side R1234yf coupler (12 mm-F x 14 mm) with extended disconnect protection sleeve, 83734 12mm-m x 1/4" fl-m adapter and **55975 IntellaSense III Combustible Gas Leak Detector** with 2 "C" batteries, leak test vial and replacement filters

ALSO AVAILABLE:

53010-TG-AUT Automotive Tracer Gas Kit for R1234yf/R134a

- 47382 38" yellow charging hose
- 53042 Leak testing adapter
- 82934-E Low side R134a coupler
- 83934 Low side R1234yf coupler
- 83734 12mm-m x 1/4" fl-m adapter

SPECIFICATIONS:

53000-TG-ASSY Regulator Assembly Tracer Gas

- 1/4" SAE flare outlet port, with control valve
- T-Handle
- 63 mm (2 1/2") gauges with guards
- High pressure gauge 4400 psig (300 bar)
- Low pressure gauge 1000 psig (70 bar)

55975 Combustible Gas Leak Detector

- Detects combustible gases
- Heated tin oxide sensing element
- 2000 hour sensor life
- Less than 1 second respond time
- 50 – 1000 ppm ultimate sensitivity
- Battery: 2 "C" Alkaline 6000 mAh batteries
- Operating Temperature Range: 0°F to 120°F
- Intelligent tip 15" inch probe length with environment sensing element to eliminate the potential of false alarms
- Six vertical LED display with enabled selectively (red, yellow or green) to display information to the user such as the relative signal level of the detected leak, the selected sensitivity range (low/medium or high) of the unit, diagnostic information such as low battery, interference/wait, contaminated atmosphere readiness of the unit or fault conditions of the unit
- Keypad control with ON/OFF button (push-on/push-off), Volume/Mute button (high, low or mute), Sensitivity button for high, medium and low sensitivity level selection and Peak button when multiple leaks are suspected (push enable/disable)

EXPAND YOUR TESTING CAPABILITIES

This optional accessory allows technicians to connect the regulator to nitrogen gas supplies using the CGA580 standard, making it a valuable addition for shops that use nitrogen for pressure testing and related service procedures.

**One small accessory.
More connection flexibility
for your 53551 kit.**

**53000-NGKT
CGA580 US Standard
Tip Fitting for Nitrogen Gas**

