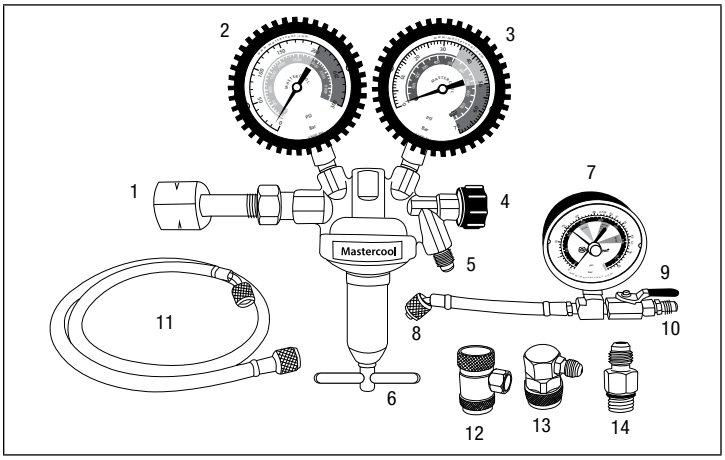
# AUTOMOTIVE TRACER GAS KIT FOR R1234YF/R134A

- Pressure regulation of nitrogen/hydrogen gas
- Pressure testing refrigeration systems
- Leak-down testing of refrigeration systems
- Purging of refrigeration systems
- Only for use on nitrogen/hydrogen pressure cylinders




| No. | Description |
|---|---|
| 1. | Cylinder Connection |
| 2. | High Side Gauge of Nitrogen Regulator (input) |
| 3. | Low Side Gauge of Nitrogen Regulator (output) |
| 4. | Output Control Valve |
| 5. | Charging Hose Connection on Regulator |
| 6. | Pressure Adjustment “T” Handle |
| 7. | Leak Testing Gauge Assembly |
| 8. | Connection to A/C Service Port Coupler |
| 9. | Leak Testing Ball Valve |
| 10. | Charging Hose Connection on Leak Testing Gauge Assembly |
| 11. | Charging Hose |
| 12. | R1234yf Low Side Coupler |
| 13. | R134a Low Side Manual Quick Coupler |
| 14. | 12mm-m x 1/4” fl-m Adapter for R1234yf Coupler Connection |

**TECHNICAL DATA:**

Connection:
- Model # 53001: CGA350 (US)

Pressure Regulator:
- 100 - 4500 PSI (7 - 300 Bar) High side
- 30 – 1000 PSI (2 – 70 Bar) Adjustment range
- Integrated Shutoff Valve

Safety Relief Valve: 725 PSI (50 Bar)

Gauge Diameter: 2 5/8 (68 mm) Not including guard

**WARNINGS**

- Only use with 95% nitrogen/5% hydrogen gas (tracer gas).
- Do not modify the regulator. Doing so could result in personal injury.
- Do not over-pressurize the regulator. This could cause leakage, part damage or personal injury due to bursting of pressure-containing parts.
- Keep the regulator clean and free of oil.
- Do not use a damaged regulator. Except for replacing the gauges, do not attempt to repair the regulator.
- Always adjust the regulator to its lowest pressure setting after each use.
- Never use a pressure higher than the manufacturer recommended A/C system pressure.
- Failure to follow instructions can result in personal injury and/or damage to the equipment.
- Do not install this regulator where service conditions can exceed the specifications of any applicable local, state, or federal codes and regulations.
- Wear safety glasses and gloves.

**REGULATOR CONNECTION AND USE**

- Make sure the cylinder connection (1) is clean and free from damage.
- Turn the T handle (6) all of the way out (counter clockwise, looking from the bottom).

- Open the output control valve (4) to release any pressure, and then close it.
- Install the regulator onto the cylinder.
- Connect the yellow charging hose (11) from the regulator to the leak testing gauge assembly, making sure the ball valve connection (9) is closed. Do not over tighten the nut on gasket connections.
- Connect the other end of the leak testing gauge assembly (8) to the desired coupler then connect to system.
- Slowly open the cylinder valve. The high side gauge (2) should read the cylinder pressure.
- Adjust the regulator pressure by turning the T handle (6) clockwise until the required pressure (based on the system's refrigerant) is shown on the low side (output) (3) pressure gauge.
  **NOTE:** This is a non-reliving regulator. To adjust the output pressure lower, some nitrogen/hydrogen gas will have to be released from the output (e.g. with no hoses connected, turn the T handle counter-clockwise, then open the output control valve and then close it. The output gauge should read a lower pressure.)
- If using the leak testing gauge assembly, turn the red needle to the required pressure.
- Open the output control valve (4) and open the ball valve (9) on the leak testing gauge assembly for the nitrogen/hydrogen to flow into the system.
- Make sure the required pressure is available on both gauges. (You may need to turn the T handle (6) on the regulator to adjust to the required pressure.)
- Once the pressure is equalized (make sure the black needle is aligned with the red marker on the leak testing gauge assembly) close the ball valve connection (9).
- Close the output control valve (4) on the regulator
- Disassemble the yellow charging hose (11) from the regulator and leave the system for a period of time (time is based on the size of the system.)
- After some time, look at the gauge, if there is a leak in the system the pressure will have dropped from the original setting.

**REGULATOR REMOVAL**

- Close the valve on the nitrogen/hydrogen cylinder.
- Relieve the pressure on the regulator by opening the output control valve (4). Both gauges should read zero.
- Slowly loosen the cylinder connection. There may still be some pressure between the regulator and cylinder.
- Completely remove the regulator.
- Clean and store the regulator in its box to prevent damage.

For parts or service, contact the service department: 1-888-825-6989

⚠ **WARNING:** This product can expose you to chemicals including Di (2-ethylhexyl) phthalate, lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov