



Service Information

Special Tools and Equipment

Number: ATE-22-19

Subject: R744 Carbon Dioxide (CO2) Sourcing & Specification

Date: December 1, 2022

R744 Specifications:

- Low moisture carbon dioxide (CO2) air conditioning refrigerant gas
- Gas must meet AHRI Standard 700 (H2O ≤ 10ppm, CO2 ≥ 99.9%)

VAS581009 requires a specific R744 tank size and weight:

- Liquid R744 cylinder with integrated liquid riser tube
- Max cylinder diameter of 8 inches
- Max total weight of the cylinder and refrigerant of 110lbs

95/5 Leak Test Gas (95% N2 - 5% H2):

- Composed of 5% Hydrogen in 95% Nitrogen
- Also known as Forming Gas or Tracer Gas
- Connected to VAS581009 via Pressure Regulator VAS584005
- Detectable with VAS523003A Gas Leak Detector

R744 Gas and 95/5 Gas are not available through the Special Tools and Equipment Program (SBS). They are sourced from your local Gas/Welding suppliers.

The following suppliers, as a courtesy, have provided part numbers for R744 Gas and 95/5 leak checking Gas. **NOTE:** You are **NOT** required to use these suppliers.

Linde / Praxair

R744 CO2 and Tank for use in VAS581009 (31"x 7")	CD 3.0RG-QS
R744 CO2 and Tank for use in VAS581009 (27"x 8") <i>Alternative Tank Size</i>	CD 3.0RG-20S
95/5 Leak Test Gas and Tank	HY STAR81-T

Airgas / Air Liquide

R744 CO2 Gas and Tank for use in VAS581009	REFR744R80S
95/5 Leak Test Gas and Tank	X02NI95C3000092