

2. Refrigerant Pressure with Manifold Gauge Set S701631

A: OPERATION S701631A16

- 1) Place the vehicle in a shady draft-free location.
- 2) Connect the manifold gauge set.
- 3) Open the front windows and close all doors.
- 4) Open the hood.
- 5) Increase engine rpm to 1,500.
- 6) Turn ON the A/C switch.
- 7) Turn the temperature control switch to MAX COOL.
- 8) Put in RECIRC position.
- 9) Turn the blower control switch to HI.
- 10) Read the gauge.

Standard:

Low pressure: 127 - 196 kPa (1.3 - 2.0 kg/cm², 18 - 28 psi)

High pressure: 1,471 - 1,667 kPa (15 - 17 kg/cm², 213 - 242 psi)

Ambient temperature: 30 - 35°C (86 - 95°F)

B: INSPECTION S701631A10

Symptom	Probable cause	Repair order
High-pressure side is unusually high.	<ul style="list-style-type: none"> ● Defective condenser fan motor ● Clogged condenser fan ● Too much refrigerant ● Air inside the system ● Defective receiver drier 	<ul style="list-style-type: none"> ● Replace the fan motor. ● Clean the condenser fin. ● Discharge refrigerant. ● Replace the receiver drier.
High-pressure side is unusually low.	<ul style="list-style-type: none"> ● Defective compressor ● Not enough refrigerant ● Clogged expansion valve ● Expansion valve frozen temporarily by moisture 	<ul style="list-style-type: none"> ● Replace the compressor. ● Check for leaks. ● Replace the expansion valve.
Low-pressure side is unusually high.	<ul style="list-style-type: none"> ● Defective compressor ● Defective expansion valve ● Too much refrigerant 	<ul style="list-style-type: none"> ● Replace the compressor. ● Replace the expansion valve. ● Discharge refrigerant.
Low-pressure side is unusually low.	<ul style="list-style-type: none"> ● Not enough refrigerant ● Clogged expansion valve ● Expansion valve frozen temporarily by moisture ● Saturated receiver drier 	<ul style="list-style-type: none"> ● Check for leaks. ● Replace the expansion valve ● Replace the receiver drier.