3. Tools and Equipment

The following section provides information about the tools and equipment that will be necessary to properly service the A/C system.

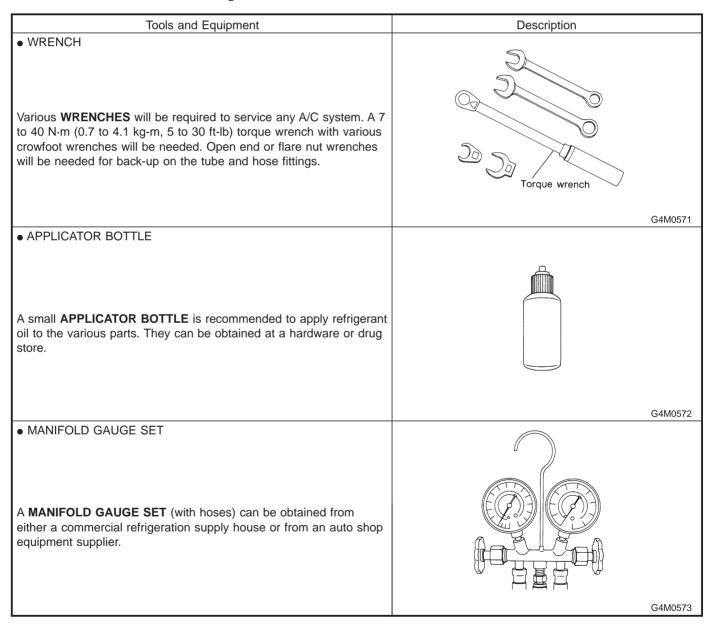
Since equipment may vary slightly depending on the manufacturer, it is important to always read and follow the manufacturer's instructions.

CAUTION:

When working on vehicles with the HFC-134a system, only use HFC-134a specified tools and parts. Do not mix with CFC-12 tools and parts. If HFC-134a and CFC-12 refrigerant or com-

pressor oil is mixed, poor lubrication will result and the compressor itself may be destroyed. In order to help prevent mixing HFC-134a and CFC-12 parts and liquid, the tool and screw type and the type of service valves used are different. The gas leak detectors for the HFC-134a and CFC-12 systems must also not be interchanged.

	HFC-134a	CFC-12
Tool & screw type	Millimeter size	Inch size
Valve type	Quick joint type	Screw-in type



SERVICE PROCEDURE

Tools and Equipment	Description
REFRIGERANT RECOVERY SYSTEM	
A REFRIGERANT RECOVERY SYSTEM is used for the recovery and reuse of A/C system refrigerant after contaminants and moisture have been removed from the refrigerant.	G4M0574
SYRINGE	
A graduated plastic SYRINGE will be needed to add oil back into the system. The syringe can be found at a pharmacy or drug store.	
	G4M0575
• VACUUM PUMP A VACUUM PUMP (in good working condition) is necessary, and may be obtained from either a commercial refrigeration supply house or an automotive equipment supplier.	G4M0576
• CAN TAP A CAN TAP for the 397 g (14 oz) can is available from an auto sup- ply store.	G4M0577

Tools and Equipment	Description
• THERMOMETER Pocket THERMOMETERS are available from either industrial hard- ware store or commercial refrigeration supply houses.	G4M0578
ELECTRONIC LEAK DETECTOR	
An ELECTRONIC LEAK DETECTOR can be obtained from either a specialty tool supply or an A/C equipment supplier.	
WEIGHT SCALE	G4M0579
• WEIGHT SCALE A WEIGHT SCALE such as an electronic charging scale or a bath- room scale with digital display will be needed if a 13.6 kg (30 lb) refrigerant container is used.	
	G4M0580

4. O-ring Connections

A: GENERAL

The following points should be kept in mind when assembling O-ring connections:

1) Avoid unnecessary handling and contact of O-rings with your hands, since even clean fingers contain body acids, which can contaminate the O-ring surface.

2) Do not handle O-rings with gloves, shop towels, etc., since lint particles may cling to the O-ring, possibly causing a leak upon assembly.

3) Always lubricate O-rings before assembly to allow the O-ring to seat itself properly.

4) Be certain to use torque wrenches when tightening O-ring fittings, because overtightening can not only damage the O-ring, but it can distort the tube end as well.