



## Air Conditioning (A/C) System Recovery, Evacuation and Charging (82.30.02)



**WARNING:** Servicing must be carried out by personnel familiar with both vehicle system and the charging and testing equipment. All operations must be carried out in a well ventilated area away from open flame and heat sources.

### NOTE :

The receiver drier need only be changed under the following circumstances: There is dirt in the refrigerant circuit (eg. compressor seizure); the system is leaking and refrigerant has been lost to atmosphere; refrigerant circuit has been open more than 24 hours due to repair.

- 1 . Refrigerant recovery: Remove the dust covers from the high and low pressure connections.



- 2 . Connect the high and low pressure lines to the appropriate connections.
- 3 . Open the valves on the connections.
- 4 . Turn the valves on the station to the correct positions.
- 5 . Turn the process switch to the correct position.
- 6 . Turn the main switch to 'ON'.
- 7 .



**WARNING:** Refrigerant must always be recycled before re-use to ensure that the purity of the refrigerants high enough for safe use in the air conditioning system. Recycling should always be carried out with equipment which is design certified by Underwriter Laboratory Inc. for compliance with SEA J1991. Other equipment may not recycle refrigerant to the required level of purity. R143a Refrigerant Recover Recycling Recharging station must not be used with any other type of refrigerant. Refrigerant R134a from domestic and commercial sources must not be used in motor vehicles air conditioning systems.

Allow the system to recover the refrigerant from the system.

- 8 . Close the valves on the refrigerant station.
- 9 . Turn the main switch 'OFF'.

- 10 . Close the valves on the connections.
- 11 . Disconnect the high and low pressure connections.
- 12 . Install the dust covers to the connectors.
- 13 . Open the tap at the rear of the station to drain the refrigerant oil.
- 14 . Measure and record the quantity of refrigerant oil recovered from the system.
- 15 . Close the tap at the rear of the station.
- 16 . Evacuation: Remove the dust covers from the high and low pressure connections.
- 17 . Connect the high and low pressure lines to the appropriate connections.
- 18 . Open the valves on the connections.
- 19 . Turn the valves on the station to the correct positions.
- 20 . Turn the process switch to the correct position.
- 21 . Turn the main switch to 'ON'.
- 22 . Allow the station to evacuate the A/C system.

23 .



**CAUTION: The system must be evacuated immediately before recharging commences. Delay between evacuation and recharging is not permitted**

Recharging: Close the valves on the refrigerant station.

- 24 . Close the valve on the oil charger.
- 25 . Disconnect the yellow line from the refrigerant station.
- 26 . Remove the cover from the oil charger.
- 27 . Pour the correct quantity of refrigerant oil into the oil charger.
- 28 . Install the cover to the oil charger.
- 29 . Connect the yellow line to the refrigerant station.
- 30 . Open the valve on the oil charger.

- 31 . Move the pointer on the refrigerant gauge to mark the position of the refrigerant drop.
- 32 . Slowly open the correct valve on the refrigerant to allow the vacuum to pull the refrigerant into the system.
- 33 . Close the valve on the refrigerant station when the correct amount of refrigerant has been drawn into the air conditioning system.
- 34 . Turn the main switch 'OFF'.
- 35 . Close the valves on the connections.
- 36 . Disconnect the high and low pressure connections.