

WORKSHOP MANUAL C ELECTRICAL 90-91 TOOLS ELECTRICAL 92-93 ELECTRICAL 94-96 PARTS CATALOGUE 04 ELECTRICAL 97-98

Complete Sanden air conditioning system

Applicable to

All Rolls-Royce and Bentley motor cars from vehicle identification numbers (VIN)

Four door *SCAZS0DAXMCH35965*

including *SCBZR03A9MCX35536* *SCBZP03AXMCX35700* *SCAZN02D8MCX35703* *SCBZR04A2MCH35704*

SCAZS02AXMCH35705 *SCBZP04A2MCX35706* *SCAZN02D5MCX35707* *SCBZR03A1MCX35708* *SCAZS02A0MCX35709*

SCBZR04A8MCH35710 *SCAZN02D7MCX35711* *SCBZR03A3MCX35712* *SCBZS00A0MCH35713* *SCBZP03AXMCX35714*

SCBZN02A2MCX35715

Two door *SCBZD00A3MCH30614*

Introduction

The purpose of this Product Support Information Sheet is to advise Service Personnel of a change of supplier of Rolls-Royce and Bentley air conditioning systems.

Description

The new refrigeration system is supplied by Sanden in its entirety. The refrigeration system gas content as specified by Sanden is now 2lb 6ozs (1.1 kg), but the system oil content remains the same at 135cc. Operating pressures for both the A.R.A. and the Sanden systems remain unchanged and as such the diagnostic procedures read across to the new Sanden system.

A new trinary switch is mounted in the receiver drier. Legislation has dictated that the pressure relief valve located on the compressor cylinder head must no longer vent Dichlorodifluoromethane (R12) to atmosphere. This relief valve was used to vent R12 from the fridge system if the system pressure exceeded 400 lbf/in².

The trinary switch now fitted in the receiver drier, still carries out its original functions of operating the auxiliary cooling fans if the system high side pressure reading exceeds 225 lbf/in² and switches them off again when the pressure falls below 175 lbf/in². Its third and additional function is to monitor high pressure within the refrigeration system, if the pressure exceeds 400 lbf/in² the switch will open and disengage the refrigeration compressor, thus reducing systems pressure without venting off R12 to atmosphere.

It should be noted that the seal on release couplings that were a feature of the A.R.A system are no longer fitted in the Sanden system. The Sanden system must be discharged before it is broken into. For Service requirements A.R.A. components are still available and should be used when a replacement is required.

Defect and Repair code manual

Please consult the air conditioning section (04) of the Defect and Repair code manual for individual component defect and repair codes and repair times.

Parts affected

(refer to table: 4736c12e_0001)

see Fig. C12-1

001637

C12-1 Evaporator pipes and fittings

see Fig. C12-2

001638

C12-2 Condenser pipes and fitting

Steve Hughes