

Memory Seats and Door Mirrors

Manual Operation - Diagnostics - Initialisation - Component Locations - Wiring Diagramme

Note: both door mirrors are controlled by the driver's seat memory from chassis 30,000 onwards

Applicable to

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

Rolls-Royce

Silver Spirit

SCAZS0002HCH20003

Silver Spur

SCAZN0009HCX20004

Silver Spur Limousine

SCAZN0005HCX20632

Bentley

Mulsanne and Mulsanne L

SCBZS0000HCH20023

Mulsanne S

SCBZS00A7JCH22047

Turbo R and Turbo RL

SCBZS0T03HCX20001

Eight

SCBZS8009HCX20006

Introduction

A new front seat mechanism has been introduced from vehicle identification number (VIN)

SCBZS0T03HCX20001

Description

The new front seat mechanisms, fitted to the above motor cars, incorporate a powered seat rake and a four individual seat position memory function. On Bentley Eight cars (prior to vehicle identification number (VIN) *SCBZE00A2JCX22008* for 1988 model year) the four individual seat position memory function was not fitted as standard.

The purpose of this Product Support Information Sheet is to outline the electrical fault diagnosis to assist in the rectification of the front seat electrical system.

Procedure

The following fault diagnosis procedure must be used in conjunction with the Electrical Workshop Manual TSD 4701, Section 27.

Note:

The electrical checks recommended in the following diagnosis procedure must be carried out using a suitable meter.

Seat Memory ECU - To Isolate for Manual Operation or Diagnosis

The following procedures apply to both front seats unless otherwise stated.

- 1.) Disconnect the two five-way connectors (See diagramme on Page 2: Figure M13-1 item 1) and join the plug and socket together from the stowage bin loom.

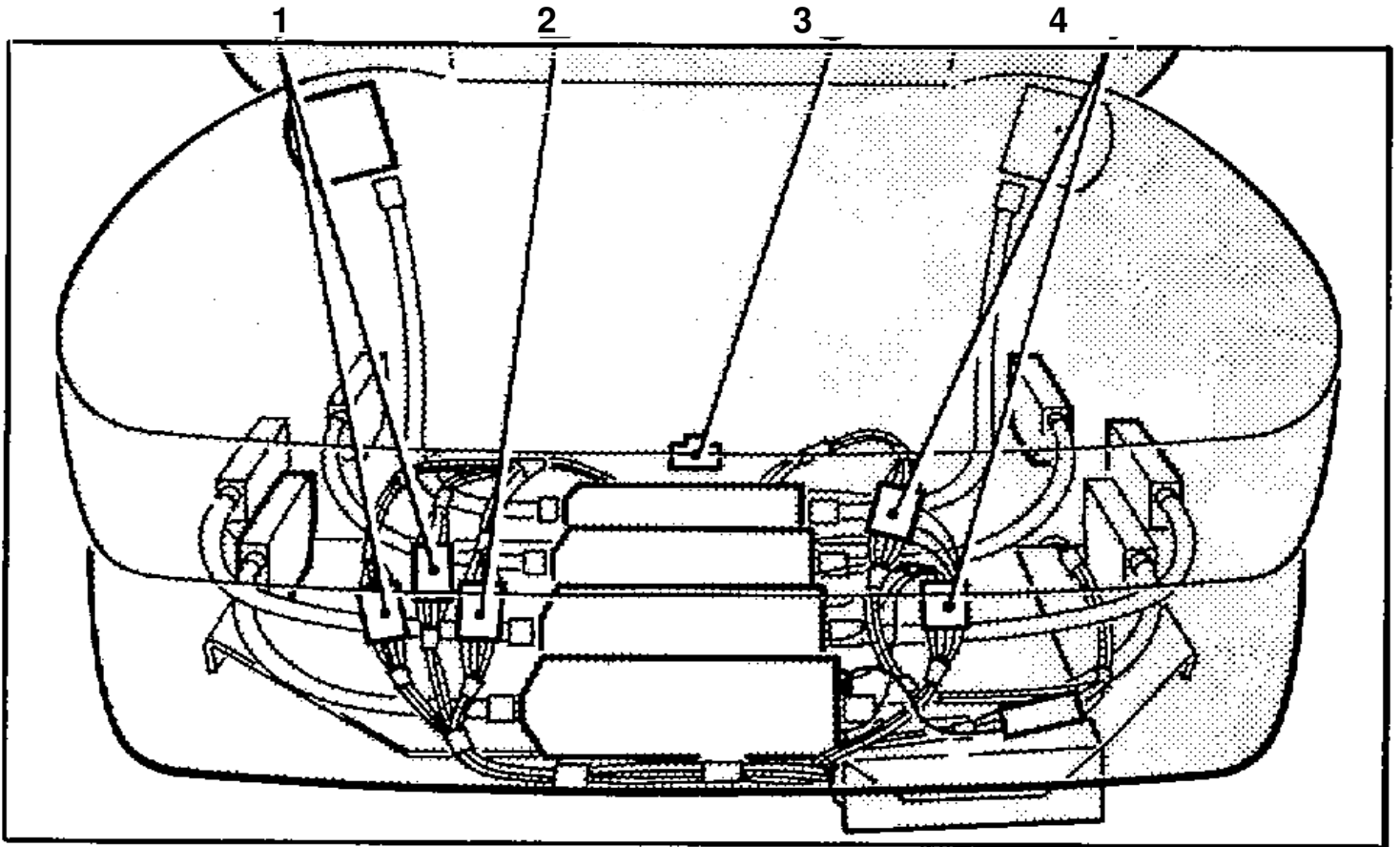
M13-1 Seat connections

1	Five-way connectors
2	Twelve-way connector
3	Relay socket
4	Nine-way connectors

- 2.) Disconnect the twelve-way connector (item 2).
- 3.) Fit a relay (standard Bosch relay) into the vacant relay socket (item 3).
- 4.) Disconnect the two nine-way connectors (item 4) and join the nine-way motor plug to the nine-way stowage bin loom.

The seat can now be operated direct from the analogue switches.

Figure M13-1



Memory Seats - Diagnosis

Description/Fault	Check	Remedy
Complete seat inoperative		
	Fuse B1 - F2 for continuity	Replace fuse if necessary
	With ignition turned to 'ACC' or 'RUN' check for 12 volts on Light Green cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Light Green cable from fuse B1 - F2 to the seat ECU	Rectify as necessary
	Check Black cables at seat memory ECU for good earth	Rectify as necessary
	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
Seat memory inoperative		
	Memory fuse located in the luggage compartment	Replace fuse if necessary
	Fuse A6 - F2 for continuity	Replace fuse if necessary
	Fuse A5 - F1 for continuity	Replace fuse if necessary
	With ignition turned to 'ACC' or 'RUN' check for 12 volts on the Red/Slate cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Red/Slate cable from fuse A5 - F1 to the seat memory ECU	Rectify as necessary
	With ignition turned to 'ACC' or 'RUN' and gear selector in the 'PARK' position, check for 12 volts on the Blue/Brown cable at the seat memory ECU	Rectify as necessary
	Check the continuity of the Blue/Brown cable from fuse A6 - F2 to the seat memory ECU	Rectify as necessary
	Check the Black cables at the seat memory ECU for a good earth	Rectify as necessary
	Check the continuity of the cables from the memory switch panel to the seat memory ECU	Rectify as necessary
	Substitute seat memory ECU	
Right-hand seat		
Seat only operates in 'front up/down' and 'seat squab rake' modes		
	Fuse B4 - F3 for continuity	Replace fuse if necessary
	Check for 12 volts on Brown/Red cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Brown/Red cable from fuse B4 - F3 to the seat memory ECU	Rectify as necessary
	Check the Black cables at the seat memory ECU for a good earth	Rectify as necessary
	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
Seat only operates in 'rear up/down' and 'seat fore/aft' modes		
	Fuse B5 - F3 for continuity	Replace fuse if necessary
	Check for 12 volts on Green/Red cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Green/Red cable from fuse B5 - F3 to the seat memory ECU	Rectify as necessary
	Check the Black cables at the seat memory ECU for a good earth	Rectify as necessary
	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures

Left-hand seat		
Seat only operates in 'front up/down' and 'seat squab rake' modes		
	Fuse B2 - F3 for continuity	Replace fuse if necessary
	Check for 12 volts on Green/White cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Green/White cable from fuse B2 - F3 to the seat memory ECU	Rectify as necessary
	Check the Black cables at the seat memory ECU for a good earth	Rectify as necessary
	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
Seat only operates in 'rear up/down' and 'seat fore/aft' modes		
	Fuse B3 - F3 for continuity	Replace fuse if necessary
	Check for 12 volts on Brown/Green cable at seat memory ECU	Rectify as necessary
	Check the continuity of the Brown/Green cable from fuse B3 - F3 to the seat memory ECU	Rectify as necessary
	Check the Black cables at the seat memory ECU for a good earth	Rectify as necessary
	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
Seat operation pulses in individual modes		
Front of seat up and down mode	Check continuity of Red cable from seat memory ECU to front up/down tilt gearbox	Rectify as necessary
	Ensure that Red cable connection to the front up/down tilt gearbox is secure	Rectify as necessary
	Ensure that front up/down tilt gearbox has a good earth	Rectify as necessary
		If no fault can be found with the wiring replace the gearbox
Rear of seat up and down mode	Check continuity of Yellow cable from seat memory ECU to rear up/down tilt gearbox	Rectify as necessary
	Ensure that Yellow cable connection to the rear up/down tilt gearbox is secure	Rectify as necessary
	Ensure that rear up/down tilt gearbox has a good earth	Rectify as necessary
		If no fault can be found with the wiring replace the gearbox
Seat forward reverse mode	Check continuity of Brown cable from seat memory ECU to forward/reverse gearbox	Rectify as necessary
	Ensure that Brown cable connection to the forward/reverse gearbox is secure	Rectify as necessary
	Ensure that forward/reverse gearbox has a good earth	Rectify as necessary If no fault can be found with the wiring, replace the gearbox
Seat squab rake mode	Check continuity of Orange cable from seat memory ECU to seat squab rake gearbox	Rectify as necessary
	Ensure that Orange cable connection to the seat squab rake gearbox is secure	Rectify as necessary
	Ensure that seat squab rake gearbox has a good earth	Rectify as necessary
		If no fault can be found with the wiring, replace the gearbox
Seat will only move in one direction of mode		
Seat will move forward but not rearwards	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
	If fault is still evident check the operation of the affected analogue micro-switch	Replace micro-switch as necessary
Seat will not operate in either direction o mode		

Seat will not move forward or rearwards	By-pass seat memory ECU	See section at end of diagnosis and rectification procedures
	If fault is still evident check the continuity of the wiring from the analogue switch to the motor	Rectify as necessary
	If wiring is correct	Substitute motor
		When substituting the motor ensure that both drive cables are sound and located in both gearboxes

Seat and Door Mirror Position Mechanism and Memory - To Activate

Note: both door mirrors are controlled by the driver's seat memory from chassis 30,000 onwards

Should the battery leads be disconnected for 4 weeks or longer, the seat/door mirrors position memory function may be lost. If this has occurred, it will be necessary to reactivate the memory by tapping-in the memory code as follows.

Warning:

When the seat/door mirrors memory is reactivated, the seat will move immediately and automatically to set adjustment positions, then the door mirrors will move automatically to set adjustment positions. It is essential that contact with the seat is avoided when carrying out the following procedure.

Ensure that the gear range selector lever is in park, then turn the ignition switch to either the ACC or RUN position. Briefly depress the MEM (memory) button five times on the seat control panel then immediately depress the numbered store/recall buttons on the same panel in the sequence 4-3-3-4.

A selected seat position can then be stored in the memory as described below. Switch off the ignition.

Seat and Door Mirror Positions - To Store a Position in Memory

When the optimum, personal seat position has been found, it can be stored in the memory circuit and recalled as required. Personal seat positions for four persons can be stored in the memory.

The driver's seat position memory is linked to the electrically operated door mirrors. This enables the mirrors to be set to match a driver's personal seat position and recalled together with the set seat position when required. Therefore, before storing a driver's personal seat position into the memory, adjust the door mirrors for optimum rearward vision.

The seat adjustment, door mirror adjustment, and memory switches will only operate when the ignition switch is in either the ACC or RUN position. To operate the memory function the gear range selector lever must also be in the park position.

To store a selected seat position, first press the switch marked MEM situated on the seat control panel. This will activate the memory which will then remain receptive for a period of five seconds. During this period, press one of the four numbered personal allocation switches. The personal seat/door mirrors position data, will then be stored in the memory until new data is programmed into the memory by repeating the storage procedure for a new seat position.

To recall the stored position, ensure that the gear range selector lever is in the park position, then press and hold down the personal allocation switch until the seat/door mirrors have reached their programmed positions. Seat/door mirrors movement can be stopped at any time by releasing the switch.

Adjustments that are made to a seat position or to the door mirrors using the control switches independently, will not affect the memory.

Warning:

Do not adjust the seat whilst the car is in motion

Component locations

See Page 8

Wiring diagram

See Page 9

- 1) Seat motor, controlling front up/down tilt
- 2) Driver's seat/mirrors memory electronic control unit plug and socket 9-way
- 3) Driver's seat/mirrors memory electronic control unit
- 4) Driver's seat/mirrors memory electronic control unit plug and socket 18-way
- 5) Driver's seat switches plug and socket 6-way
- 6) Seat switch, controlling seat squab rake - forward tilt
- 7) Seat switch, controlling seat squab rake - rear tilt
- 8) Seat switch, controlling forward travel
- 9) Seat switch, controlling front up tilt
- 10) Seat switch, controlling front down tilt
- 11) Seat switch, controlling rear up tilt
- 12) Seat switch, controlling rear down tilt
- 13) Seat switch, controlling reverse travel
- 14) Seat motor, controlling rear up/down tilt
- 15) Seat motor, controlling forward/reverse travel
- 16) Seat motor, controlling forward/rear seat squab rake
- 17) Seat gearbox position sensor for front up/down tilt
- 18) Seat gearbox position sensor for rear up/down tilt
- 19) Seat gearbox position sensor for forward/reverse travel
- 20) Seat gearbox position sensor for forward/rear seat squab rake
- 21) Earth point - seat base
- 22) Driver's seat/mirrors memory electronic control unit plug and socket 6-way
- 23) Splice 207

- 24) Splice 209
- 25) Splice 206
- 26) Splice 208
- 27) Driver's seat/mirrors memory switches plug and socket 12-way
- 28) Driver's seat/mirrors memory switches
- 29) Left-hand door mirror motors
- 30) Door mirror motors plug and socket 4-way
- 31) Left-hand front door plug and socket 24-way
- 32) Main loom to centre stowage compartment loom plug and socket 24-way
- 33) Driver's seat/mirrors memory electronic control unit plug and socket 12-way
- 34) Left-hand door mirror switches
- 35) Splice 263
- 36) Left-hand door mirror switches plug and socket 6-way
- 37) Right-hand door mirror switches plug and socket 6-way
- 38) Splice 262
- 39) Right-hand door mirror switches
- 40) Right-hand door mirror motors
- 41) Right-hand front door plug and socket 12-way
- 42) Right-hand front door plug and socket 24-way
- 43) Gearchange actuator plug and socket 6-way - blue
- 44) Gearchange actuator micro-switch
- 45) Gearchange actuator relay 1
- 46) Gearchange actuator relay 2
- 47) Gearchange actuator relay 3
- 48) Left-hand door mirror potentiometers
- 49) Door mirror potentiometers plug and socket 4-way
- 50) Right-hand door mirror potentiometers
- 51) Driver's seat/mirrors memory electronic control unit plug and socket 3-way
- 52) Splice 211
- 53) Splice 25
- 54) Main loom to centre stowage compartment loom plug and socket 9-way
- 55) Splice 210
- 56) Battery earth point
- 57) Battery
- 58) Memories fuse, 20 amp - located in the luggage compartment
- 59) Main loom to body loom plug and socket 9-way - right-hand 'A' post
- 60) Splice 32
- 61) Fuseboard F2, fuse A5, 10 amp
- 62) Fuseboard F2, fuse C2, 30 amp
- 63) Fuseboard F2, fuse C3, 30 amp
- 64) Fuseboard F2, fuse B7, 20 amp
- 65) Fuseboard F1, fuse B1, 20 amp
- 66) Splice 260
- 67) Splice 214
- 68) Splice 212
- 69) Earth point - right-hand 'A' post
- 70) 12 volts positive supply when ignition switch is in the ACC or RUN position

