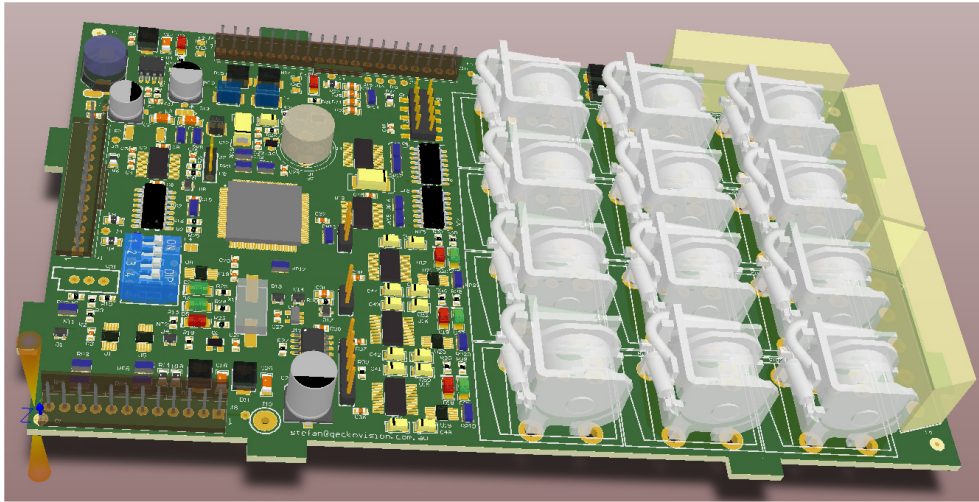


Bentley and Rolls Royce Seat memory module

After market Direct Plug in Replacement for original
20 000 and 30 000 series



Operational Features

- All memory, seat set and mirror position switches operate as per original
- Mirror and Seat Position switches operate at all times when ignition is on and battery voltage is above 10.5V
- Integrates gearbox interlock function.
Memory buttons only operate in park and only if the battery is above 10.5V and then only while the selected memory button is depressed.
- Clear all Seat Position memories use sequence "Mem 3443" within 1 second for each button press. Otherwise assumed storage of position 3

System Features

- Battery eliminated for seat position memory retention. Avoid problems from battery corrosion destroying board
- Active Current Monitoring for Overload Protection (+/-30%) Protects both the board and servos in stall condition, also allows fault monitoring for seat position sensors and monitors health of relay contacts
- Service fault diagnosis
Allows operating parameters to be monitored and view fault logs on a laptop to assist with installation problems found in older cars with unknown wiring faults.
Parameter monitored
Pot values, Seat position, Approx current when operating, Contacts serviceable, Switch inputs, Board temperature
Gearbox Input Status, Battery Voltage Supply voltage, Limited Internal diagnostics, Limited IO diagnostics
- Board temperature monitoring, lockout if enclosure gets above 70 degrees C +/- 10% or difference between two separate sensors gets above 40 degrees.
- Battery under voltage lockout Prevents seats being driven when battery below 10.5V +/- 5%
- Power fail detect, used to store operating parameters immediately prior to total power failure after which board supply is shut down under software control.
- Simple onboard fault diagnosis LEDs and optional audible warning
Assist user fault diagnosis and installation on non standard cars and feedback for memory buttons pressed.
- 20k uses 4 servo channels for the seats only.
30k cars use 8 Servo Channels required for the additional mirrors.
- Heavy Duty Relays with mechanisms to reduce contact pitting and fusing. Optional sealed relays for high humidity environments
All relays continuous inductive load NO 45A NC 30A Peak making and breaking current NO 60A and NC 30A
- Heavy Duty 2oz copper used on PCB
- All Inputs protected to beyond 30V

Note

The initial release will support 20k series cars with seat position switch sensors only. Further software development is needed for 30k series cars and 20k series cars with seat position potentiometers but the hardware requirements are in place. Selection of alternative models will be set by a 4 position switch mounted on the board.

Tested Models and Years

Bentley Turbo R 1988 22 888

To be Tested

Silver Spirit, Silver Spur, Bentley 8, Mulsanne, Mulsanne S (All 1987 and 1988). 20 000 Series Other years to be verified

To be Developed

30 000 Series

Not Supported

50 000, Corniche, Corniche 2, Continental (All 1987 and 1988) Different Controller, electrically equivalent

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