

# DESCRIPTION AND OPERATION

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## **WINDOWS - REAR**

### **DESCRIPTION**

#### **Windows - Rear**

The rear windows are electrically operated from two rockers switches located in the centre console. A rocker switch located in each rear door trim panel also operates the corresponding rear window.

A window lift isolation switch is located in the centre console. The isolation switch prevents rear window operation using the rear window switches in the rear door trims, but allows operation from the rear window switches in the centre console.

Power to the rear window motors is enabled by the Intelligent Driver's Module (IDM) which energises the rear window lift relay located in the passenger compartment fusebox.

The rear window enable is operative when the ignition switch is in position II and for a period of 44 seconds after the ignition is switched off or after the driver's door is opened. The rear window operation is suspended when the ignition switch is in the crank position III.

The rear windows are operated by electric motors located in each rear door. The window up/down functions are controlled by reversing the polarity to the motors.

### **OPERATION**

#### **Windows - Rear Supply**

##### ***Circuit supply***

A feed from the battery positive terminal is connected on an R wire to the engine compartment fusebox, where it passes through fusible links 1, 6 and 8. Fusible links 1 and 6 are connected in series.

A feed from fusible links 1 and 6 is connected from the engine compartment fusebox, on an NU wire, to the passenger compartment fusebox, where it passes through fuse 13. From fuse 13, the feed is connected to the contacts and the coil of the rear window lift relay located in the passenger compartment fusebox.

A feed from fusible link 8 is connected from the engine compartment fusebox, on an NW wire, to the passenger compartment fusebox. From the passenger compartment fusebox the feed is connected to the ignition switch on an N wire.

## ***Ignition switch supply***

With the ignition switch in position II, the feed from fusible link 8 passes through the ignition switch to fuse 29 in the passenger compartment fusebox on a Y wire.

When the ignition switch is in position II, the feed from fuse 29 is connected to the IDM. The IDM logic connects the feed from fuse 13 in the passenger compartment fusebox through the coil of the rear window lift relay, to earth header C0551 on a B wire. This supply energises the coil of the rear window lift relay.

The contacts of the rear window lift relay close when the coil is energised and allow the feed from fuse 13 to pass through the rear window lift relay contacts. The feed is connected from the passenger compartment fusebox to splice joint A183 by a WK wire. The feed is then connected on four WK wires to the LH and RH window console switches.

## **Windows - Rear Operation**

### ***LH rear window console switch - down***

Operation of the LH window console switch in the down position, allows the feed from the rear window lift relay to pass through the up switch contacts to the LH rear window switch on an SW wire. The feed passes through the up switch contacts and is connected to the LH rear window motor on an SO wire.

When the LH window console switch is set in the down position, the contacts complete the earth path for the LH rear window motor. The LH rear window motor is earthed via an SR wire to the LH rear window switch. From the down contacts of LH rear window switch the earth continues on an SY wire to the closed contacts of LH window console switch. From the contacts of the LH rear console switch the earth continues on a B wire to earth header C0552.

### ***LH rear window console switch - up***

Operation of the LH window console switch in the up position, allows the feed from the rear window lift relay to pass through the down switch contacts to the LH rear window switch on an SY wire. The feed passes through the down switch contacts and is connected to the LH rear window motor on an SR wire.

When the LH window console switch is set in the up position, the contacts complete the earth path for the LH rear window motor. The earth path from the LH rear window motor is connected to the LH rear window switch on an SO wire. The earth continues through the up switch contacts and is connected to the LH window console switch on an SW wire. The earth passes through the down switch contacts and is connected to earth header C0552 on a B wire.

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## ***RH rear window console switch - down***

Operation of the RH window console switch in the down position, allows the feed from the rear window lift relay to pass through the up switch contacts to the RH rear window switch on an SY wire. The feed passes through the up switch contacts and is connected to the RH rear window motor on an SO wire.

When the RH window console switch is set in the down position, the contacts complete the earth path for the RH rear window motor. The RH rear window motor is earthed via an SR wire to the down contacts of the RH rear window switch, then on a SW wire to connector interface C0650-3/C0804-3. From this interface the feed continues on a SN wire to the RH window console switch. From the RH window console switch the earth continues via the closed down contacts, via a B wire to earth header C0552.

## ***RH rear window console switch - up***

Operation of the RH window console switch in the up position, allows the feed from the rear window lift relay to pass through the down switch contacts on an SN wire to connector interface C0650-3/C0804-3. From this interface the feed continues on a SW wire to the RH rear window switch. The feed passes through the down switch contacts and is connected to the RH rear window motor on an SR wire.

When the RH window console switch is set in the up position, the contacts complete the earth path for the RH rear window motor. The earth path from the RH rear window motor is connected to the RH rear window switch on an SO wire. The earth continues on an SY wire to the up contacts of the RH rear window console switch. From the RH rear window console switch the earth continues on a B wire to earth header C0552.

## ***LH rear window switch - down***

Operation of the LH rear window switch in the down position, allows the feed from the rear window lift relay to pass through the up contacts of the LH window console switch on an SW wire. The feed passes through the up switch contacts and is connected to the LH rear window motor on an SO wire.

When the LH rear window switch is set in the down position, the contacts complete the earth path for the LH rear window motor. The earth path from the LH rear window motor is connected to the LH rear window switch on an SR wire. The earth continues through the down switch contacts and is connected via splice joint A358 to the window lift isolation switch on an SG wire. The earth is connected from the closed contacts of the window lift isolation switch on a B wire to earth header C0552.

## ***LH rear window switch - up***

Operation of the LH rear window switch in the up position, allows the feed from the rear window lift relay to pass through the down contacts of the LH window console switch to the rear window switch on an SY wire. The feed passes through the down switch contacts to the LH rear window motor on an SR wire.

When the LH rear window switch is set in the up position, the contacts complete the earth path for the LH rear window motor. The earth path from the LH rear window motor is connected to the LH rear window switch on an SO wire. The earth continues through the up switch contacts and is connected via splice joint A358 to the window lift isolation switch on an SG wire. The earth is connected from the closed contacts of the window lift isolation switch on a B wire to earth header C0552.

## ***RH rear window switch - down***

Operation of the RH rear window switch in the down position, allows the feed from the rear window lift relay to pass through the up contacts of the RH window console switch on an SY wire to the RH rear window switch. The feed passes through the up switch contacts and is connected to the RH rear window motor on an SO wire.

When the RH rear window switch is set in the down position, the contacts complete the earth path for the LH rear window motor. The earth path from the RH rear window motor is connected to the RH rear window switch on an SR wire. The earth continues through the switch down contacts and is connected via splice joint A358 to the window lift isolation switch on an SG wire. The earth is connected from the closed contacts of the window lift isolation switch on a B wire to earth header C0552.

## ***RH rear window switch - up***

Operation of the RH rear window switch in the up position, allows the feed from the rear window lift relay to pass through the down contacts of the RH window console switch on an SN wire to connector interface C0650-3/C0804-3. From this interface the feed continues on an SW wire to the rear window switch. The feed passes through the down switch contacts to the RH rear window motor on an SR wire.

When the RH rear window switch is set in the up position, the contacts complete the earth path for the RH rear window motor. The earth path from the RH rear window motor is connected to the RH rear window switch on an SO wire. The earth continues through the up switch contacts and is connected via splice joint A358 to the window lift isolation switch on an SG wire. The earth is connected from the closed contacts of the window lift isolation switch on a B wire to earth header C0552.

# DESCRIPTION AND OPERATION

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## ***Window lift isolation switch***

If the window lift isolation switch is latched out, the earth path from the LH and RH rear window switches is broken, preventing operation of the LH and RH rear window switches. Rear window operation using the console switches is not affected by the isolation switch.

When the window lift isolation switch is latched out, the removal of the earth path also breaks the earth path for the LH and RH rear window switch illumination. Refer to interior illumination - Description and Operation in this manual for switch illumination circuit description.