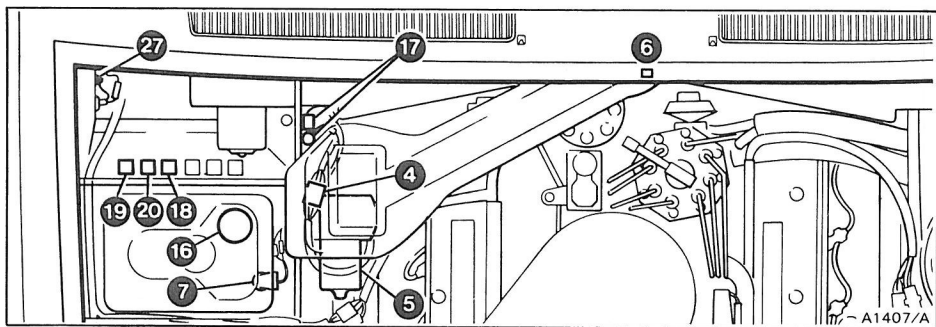
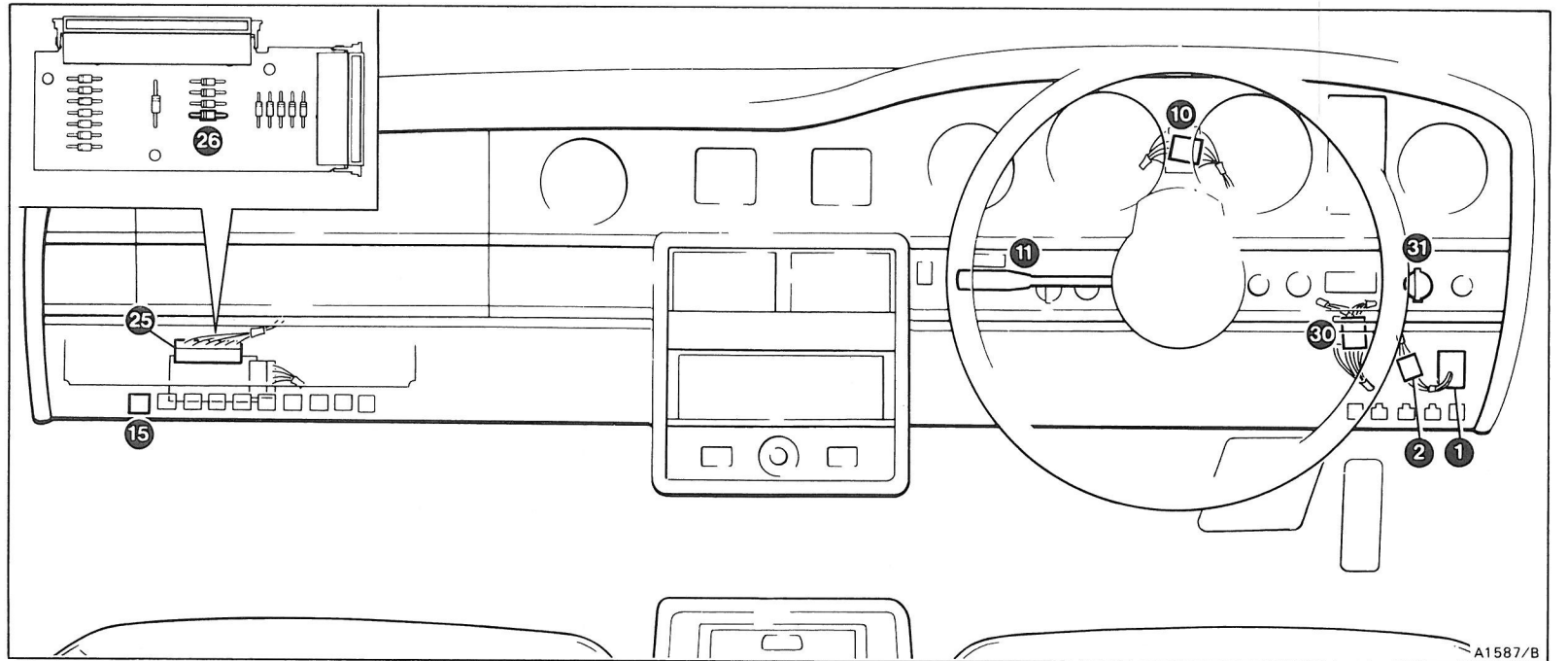
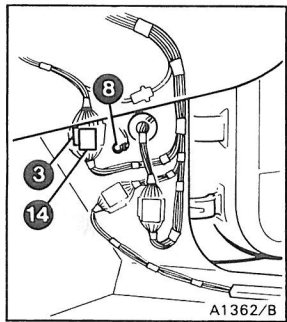
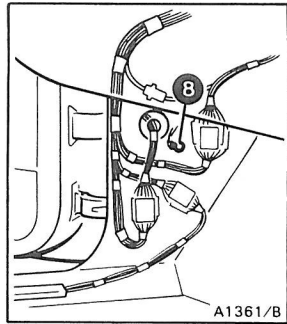




## Windscreen wipers and washers

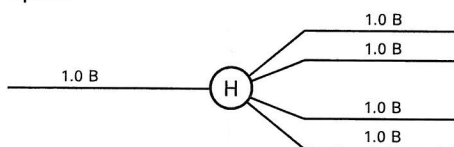
Contents	Specific application	Pages						
		Rolls-Royce		Corniche / Corniche II	Bentley	Mulsanne	Mulsanne S	Turbo R
Silver Spirit	Silver Spur	Eight						
<b>OFF position 1</b>								
Component location		15-2	15-2	15-14	15-2	15-2	15-2	15-14
Wiring diagram		15-3	15-3	15-15	15-3	15-3	15-3	15-15
<b>OFF position 2</b>								
Component location		15-4	15-4	15-16	15-4	15-4	15-4	15-16
Wiring diagram		15-5	15-5	15-17	15-5	15-5	15-5	15-17
<b>SLOW position</b>								
Component location		15-6	15-6	15-18	15-6	15-6	15-6	15-18
Wiring diagram		15-7	15-7	15-19	15-7	15-7	15-7	15-19
<b>FAST position</b>								
Component location		15-8	15-8	15-20	15-8	15-8	15-8	15-20
Wiring diagram		15-9	15-9	15-21	15-9	15-9	15-9	15-21
<b>INTER positions</b>								
Component location		15-10	15-10	15-22	15-10	15-10	15-10	15-22
Wiring diagram		15-11	15-11	15-23	15-11	15-11	15-11	15-23
<b>Wash/wipe mode</b>								
Component location		15-12	15-12	15-24	15-12	15-12	15-12	15-24
Wiring diagram		15-13	15-13	15-25	15-13	15-13	15-13	15-25



**Key to 15-3**

- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C

- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

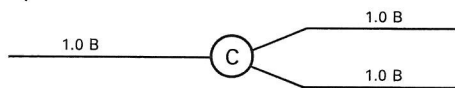
**Circuit description**

**OFF position**

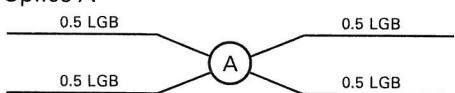
With the windscreen wiper control switch in the OFF position, switch contacts 1 and 2 are closed. If the screen wiper system is operating and OFF position is then selected the wiper motor continues to rotate until the motor sets the 'Park on screen' switch (within the motor assembly) to the Park position. This breaks the 12 volts positive supply to the coil of relay 1, thereby de-energizing the relay and removing the 12 volts positive supply from the slow speed brush of the wiper motor.

The slow speed brush of the wiper motor now finds an earth path through the normally closed contacts of relays 3 and 1 to the valance earth point.

The coil of relay 2 receiving 12 volts positive from wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction, causing the 'Park off screen' switch to be set to the Park position. This disconnects the earth path causing the motor to stop with the windscreen wiper blades in the parked position.



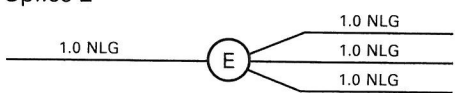
- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A



- 13 Splice B



- 14 Right-hand main to valance loom plug and socket 6-way
- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2
- 21 Splice E



- 22 Splice F



- 23 Splice G



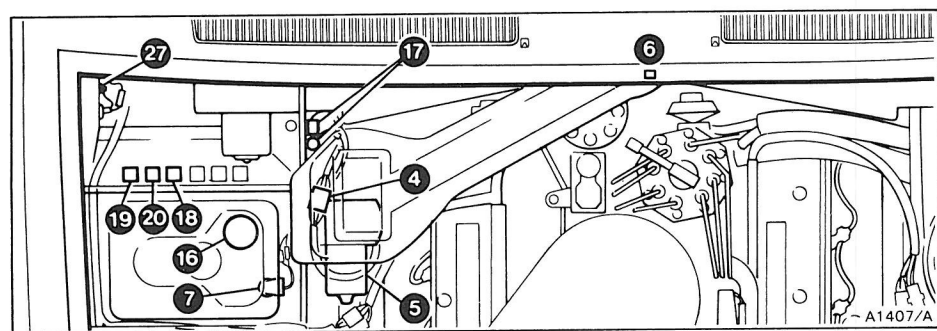
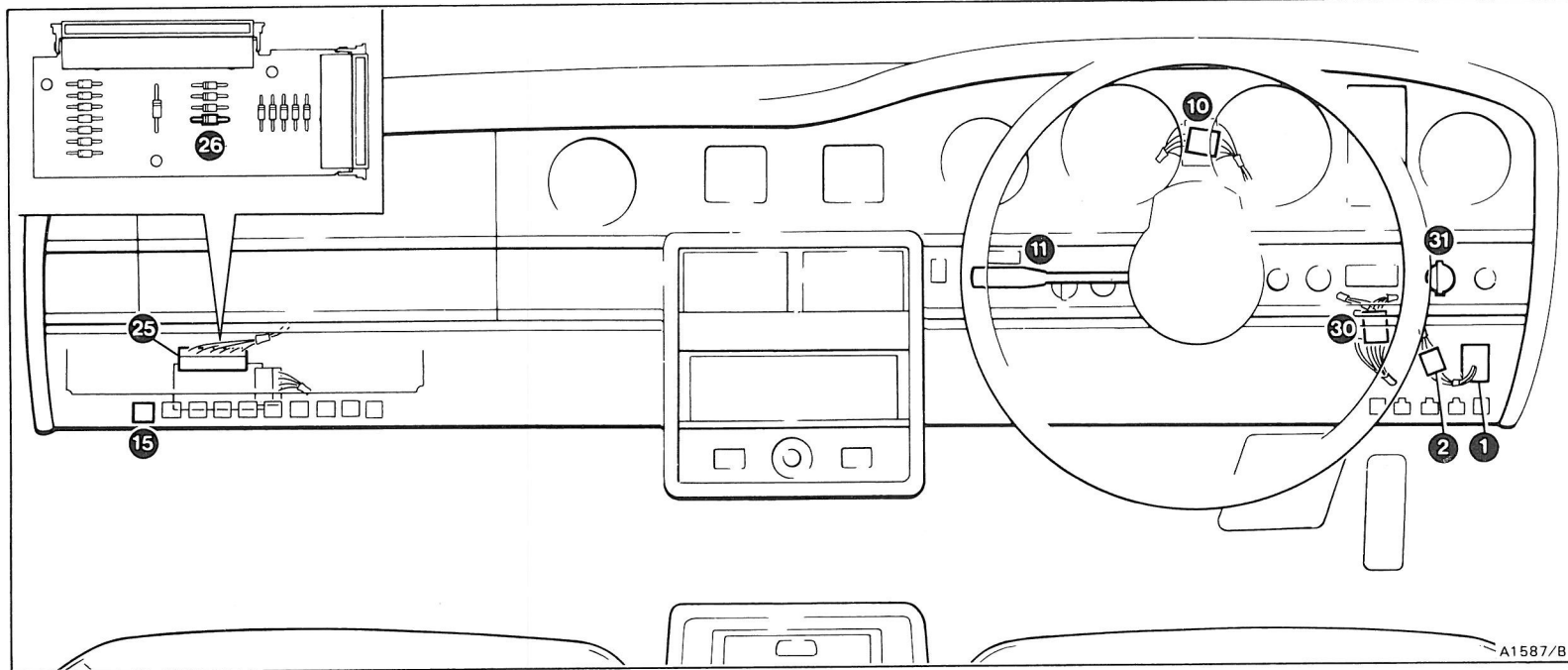
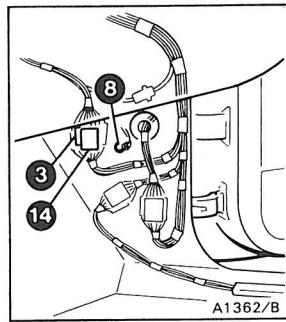
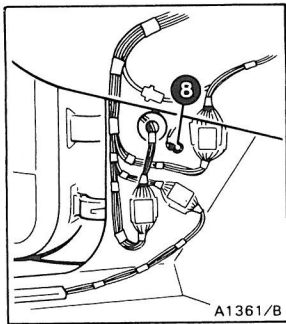
- 24 Splice D



Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14, LG
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13

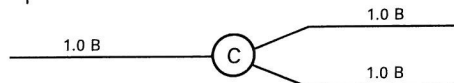
A0385



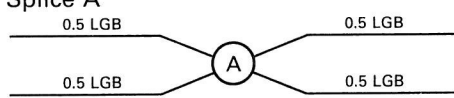


**Key to 15-5**

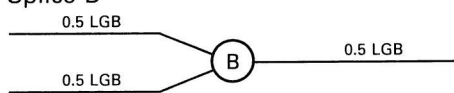
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C



- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A



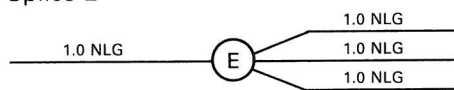
- 13 Splice B



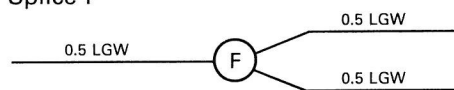
- 14 Right-hand main to valance loom plug and socket 6-way

- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2

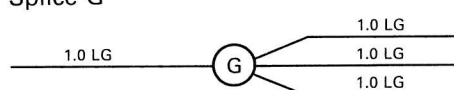
- 21 Splice E



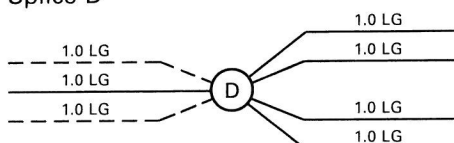
- 22 Splice F



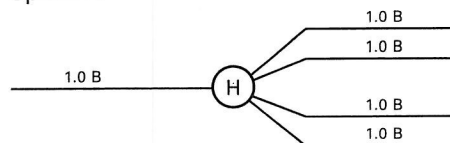
- 23 Splice G



- 24 Splice D



- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

**Circuit description**

**OFF position**

With the windscreen wiper control switch in the OFF position, switch contacts 1 and 2 are closed. If the screen wiper system is operating and OFF position is then selected the wiper motor continues to rotate until the motor sets the 'Park on screen' switch (within the motor assembly) to the Park position. This breaks the 12 volts positive supply to the coil of relay 1, thereby de-energizing the relay and removing the 12 volts positive supply from the slow speed brush of the wiper motor.

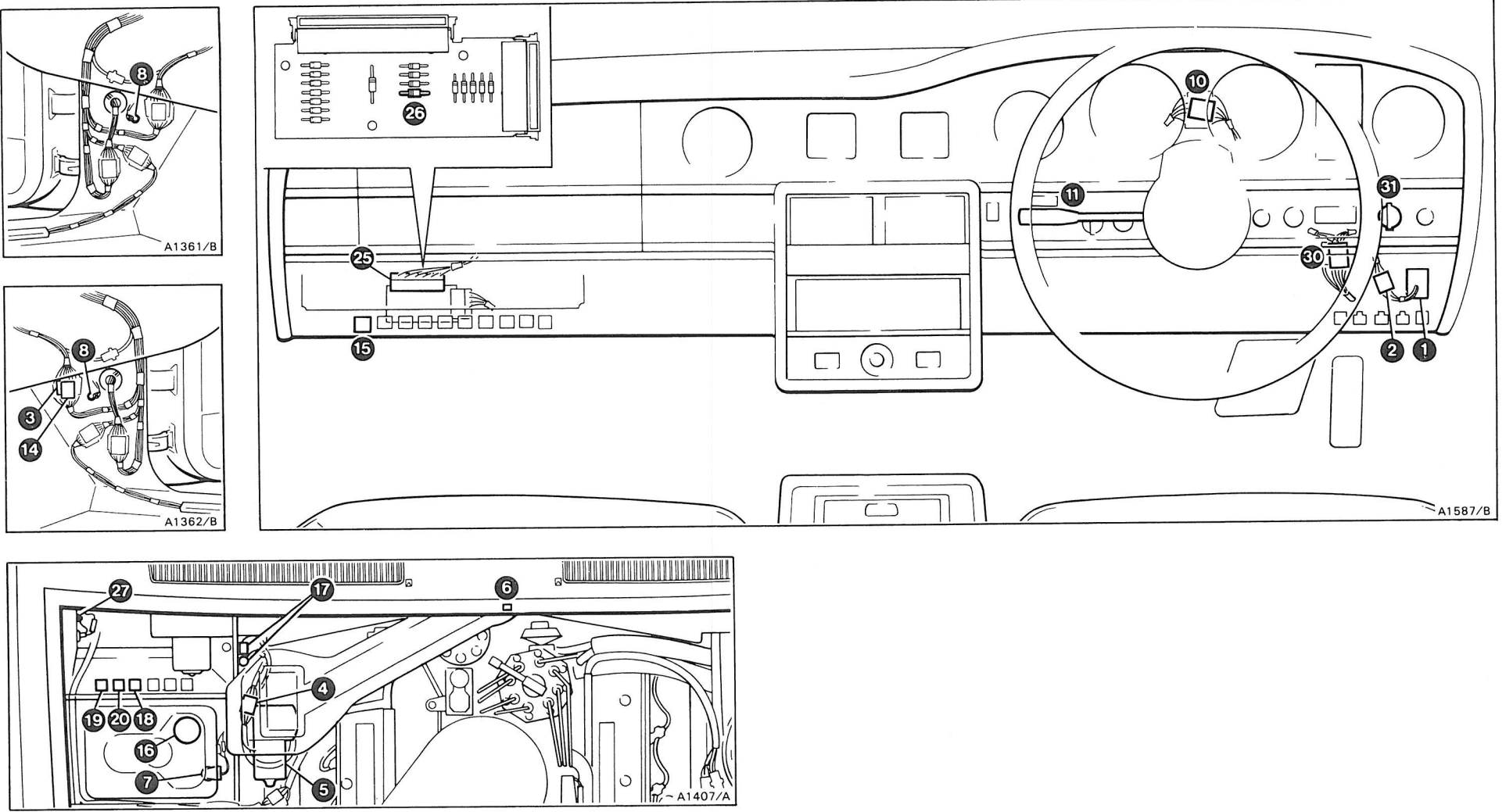
The slow speed brush of the wiper motor now finds an earth path through the normally closed contacts of relays 3 and 1 to the valance earth point.

The coil of relay 2 receiving 12 volts positive from wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction, causing the 'Park off screen' switch to be set to the Park position. This disconnects the earth path causing the motor to stop with the windscreen wiper blades in the parked position.

Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14, LG
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13

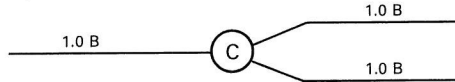
A0385



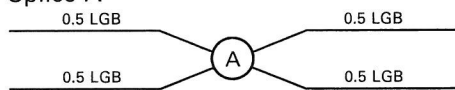


**Key to 15-7**

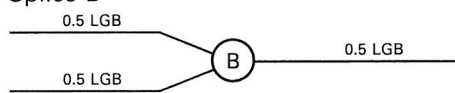
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C



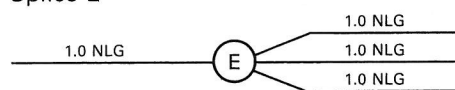
- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A



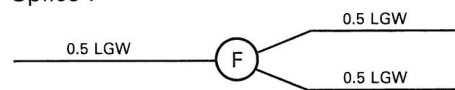
- 13 Splice B



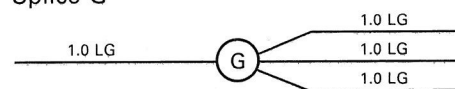
- 14 Right-hand main to valance loom plug and socket 6-way
- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2
- 21 Splice E



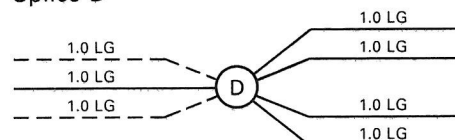
- 22 Splice F



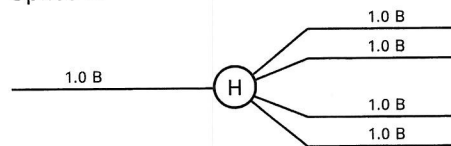
- 23 Splice G



- 24 Splice D



- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



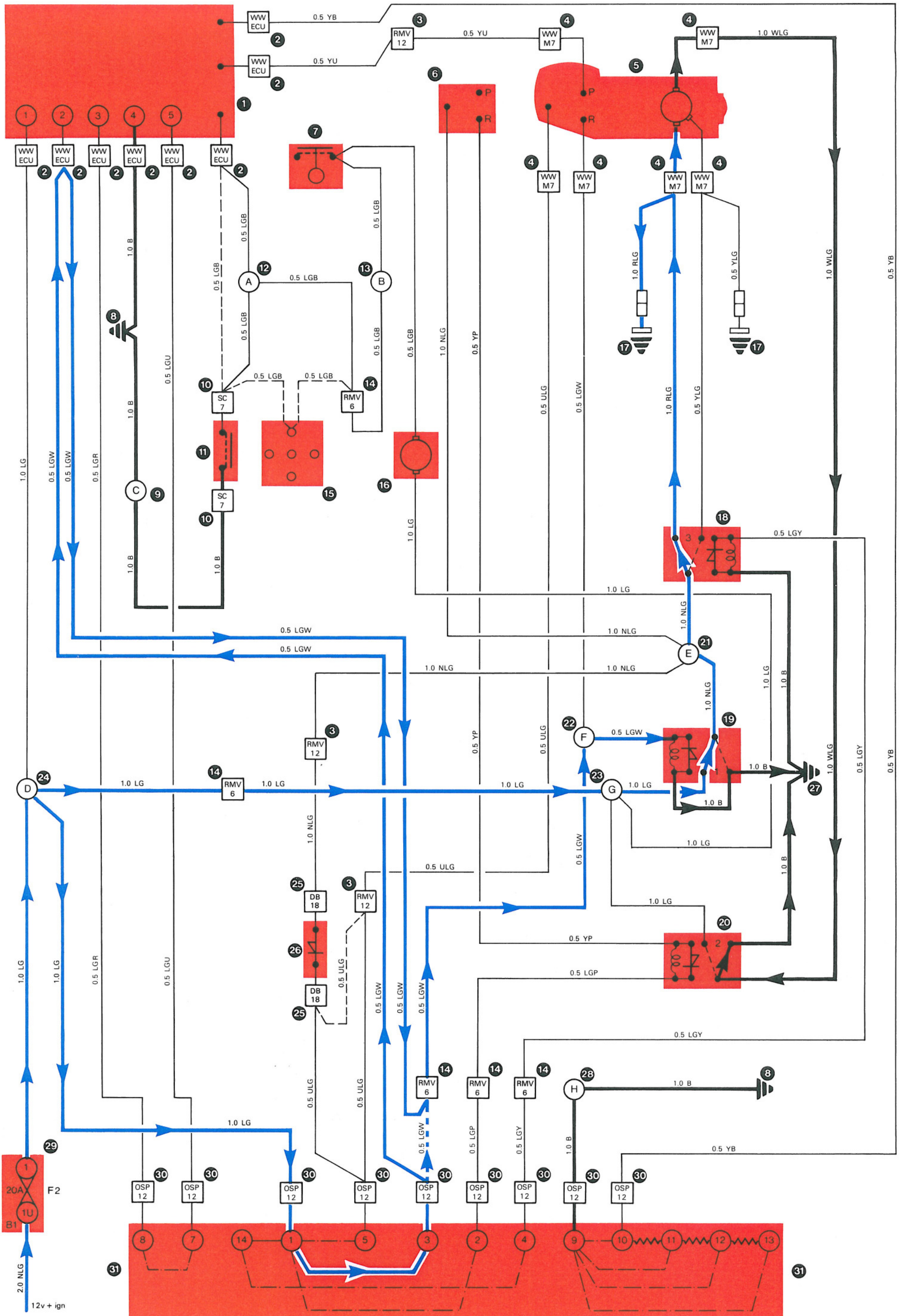
- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

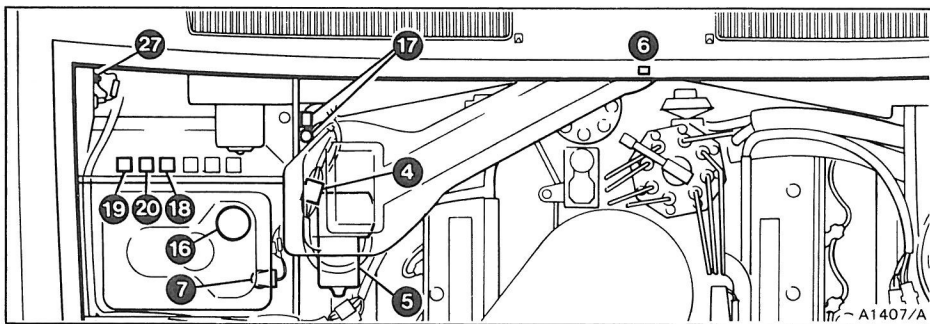
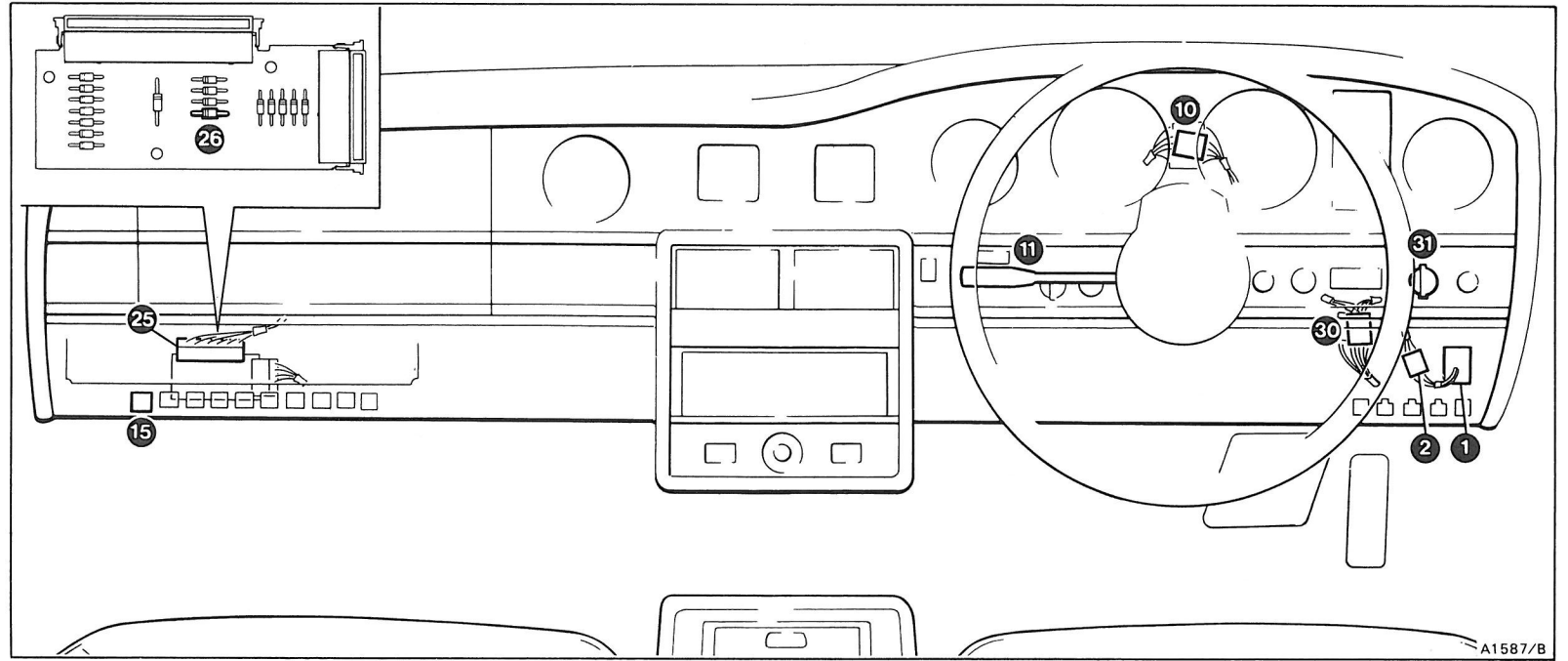
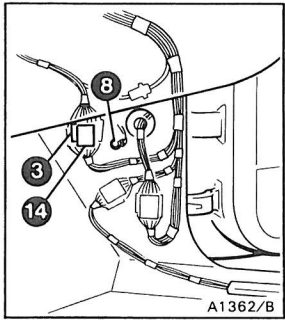
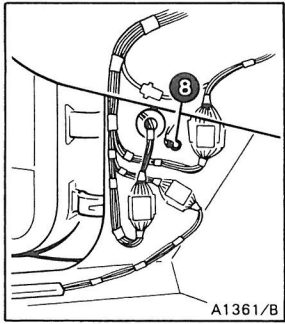
**Circuit description**

**SLOW speed position**

With the windscreen wiper control switch in the SLOW position, switch contacts 1 and 3 are closed. A 12 volts positive supply from fuse B1 at fuseboard F2 is directed through switch contacts 1 and 3 to energize relay 1. This allows a 12 volts positive supply to pass through the normally open contacts of relay 1 and via the normally closed contacts of relay 3 to the slow speed brush of the wiper motor. The earth path for the wiper motor is via the normally closed contacts of relay 2 to the valance earth point.

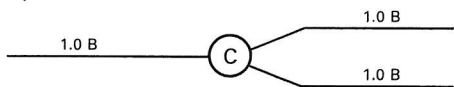
Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14, LG
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13



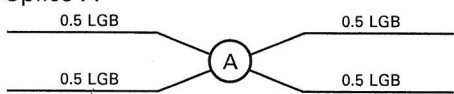


**Key to 15-9**

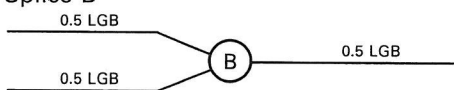
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C



- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A

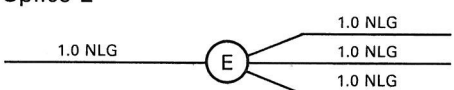


- 13 Splice B

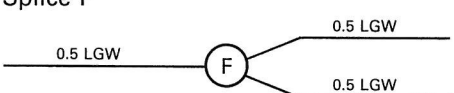


- 14 Right-hand main to valance loom plug and socket 6-way

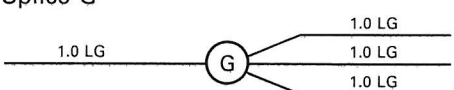
- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2
- 21 Splice E



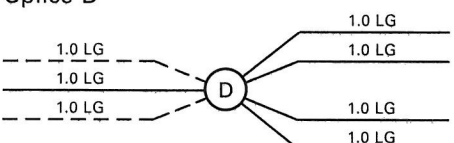
- 22 Splice F



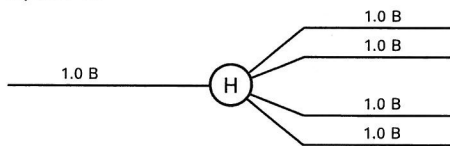
- 23 Splice G



- 24 Splice D



- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

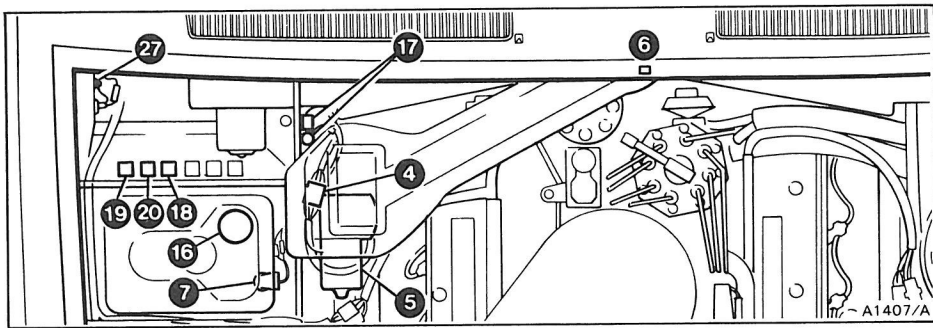
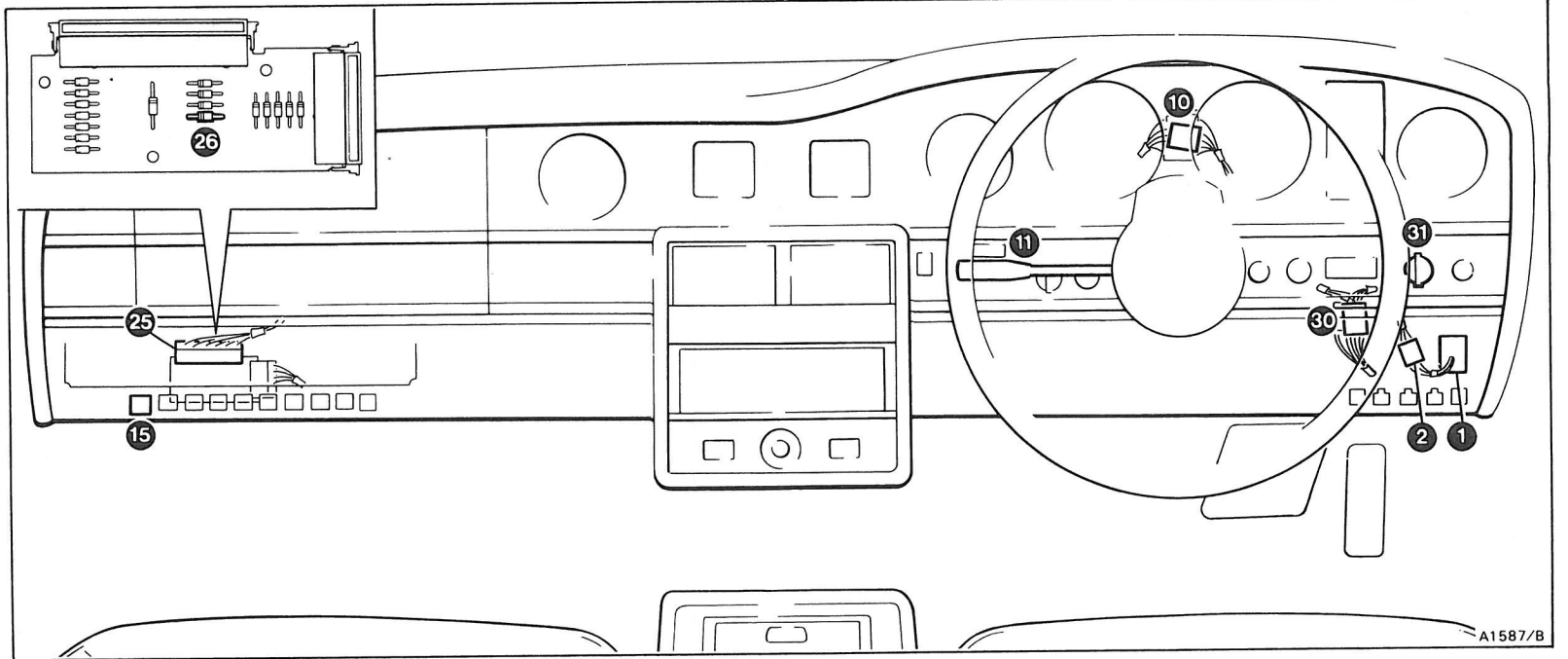
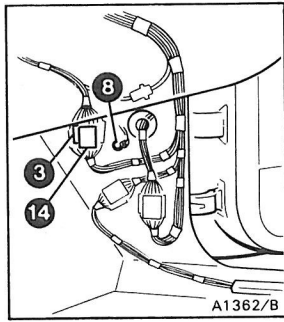
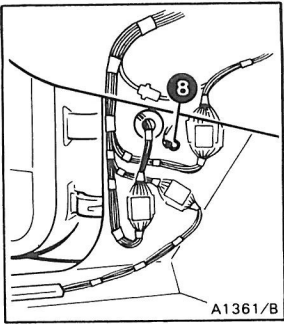
**Circuit description**

**FAST position**

With the windscreen wiper control switch set to the FAST position, switch contacts 1 and 3 also 4 and 14 are closed. A 12 volts positive feed from fuse B1 at fuseboard F2 is directed via switch contacts 1 and 3 to energize relay 1 and close the normally open contacts. Simultaneously switch contacts 4 and 14 supply 12 volts positive from fuse B1 at fuseboard F2 to energize relay 3. With relays 1 and 3 energized 12 volts positive is passed through the normally open contacts of the relays to the fast speed brush of the wiper motor. The earth path for the wiper motor is via the normally closed contacts of relay 2 to the valance earth point.

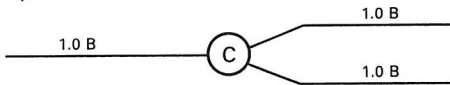
Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13



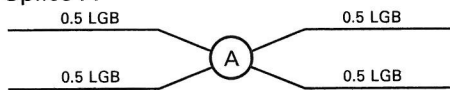


**Key to 15-11**

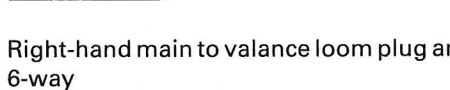
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C



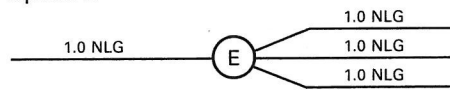
- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A



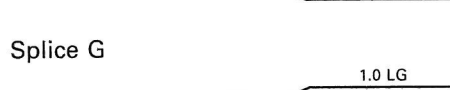
- 13 Splice B



- 14 Right-hand main to valance loom plug and socket 6-way
- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2
- 21 Splice E



- 22 Splice F



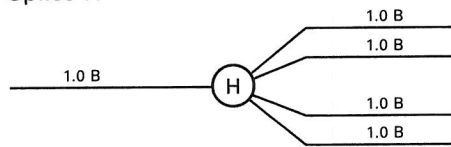
- 23 Splice G



- 24 Splice D



- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14 (LG)
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13

**Circuit description**

**4 position INTER (Intermittent) wipe**

With the windscreen wiper control switch in the INTER (Intermittent) wipe positions, the switch contacts 1 and 5, 7 and 8 are closed. Also, dependent on the intermittent delay position selected, switch contact 9 will be closed as follows; position 1 with contact 10, position 2 with contact 11, position 3 with contact 12, position 4 with contact 13.

When the switch contacts 7 and 8 are closed the wiper system electronic control unit provides a momentary 12 volt positive supply at terminal 2 of the unit to energize the coil of relay 1. With relay 1 energized a 12 volt positive supply is directed to the normally open contacts of relay 1 and through the normally closed contacts of relay 3 to the slow speed brush of the wiper motor. The earth path for the wiper motor is directed through the normally closed contacts of relay 2 to the valance earth point. The motor then rotates.

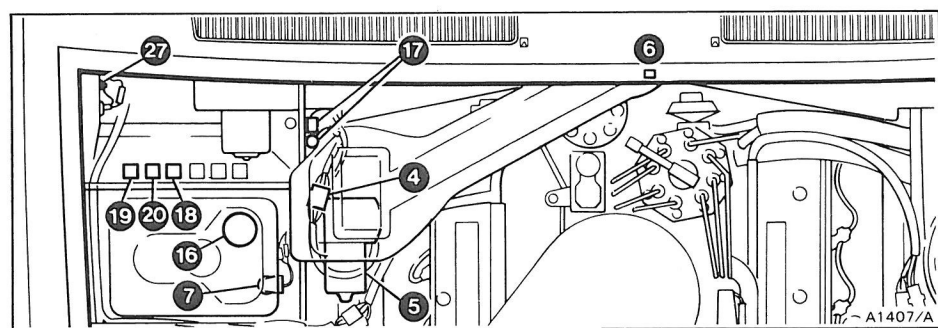
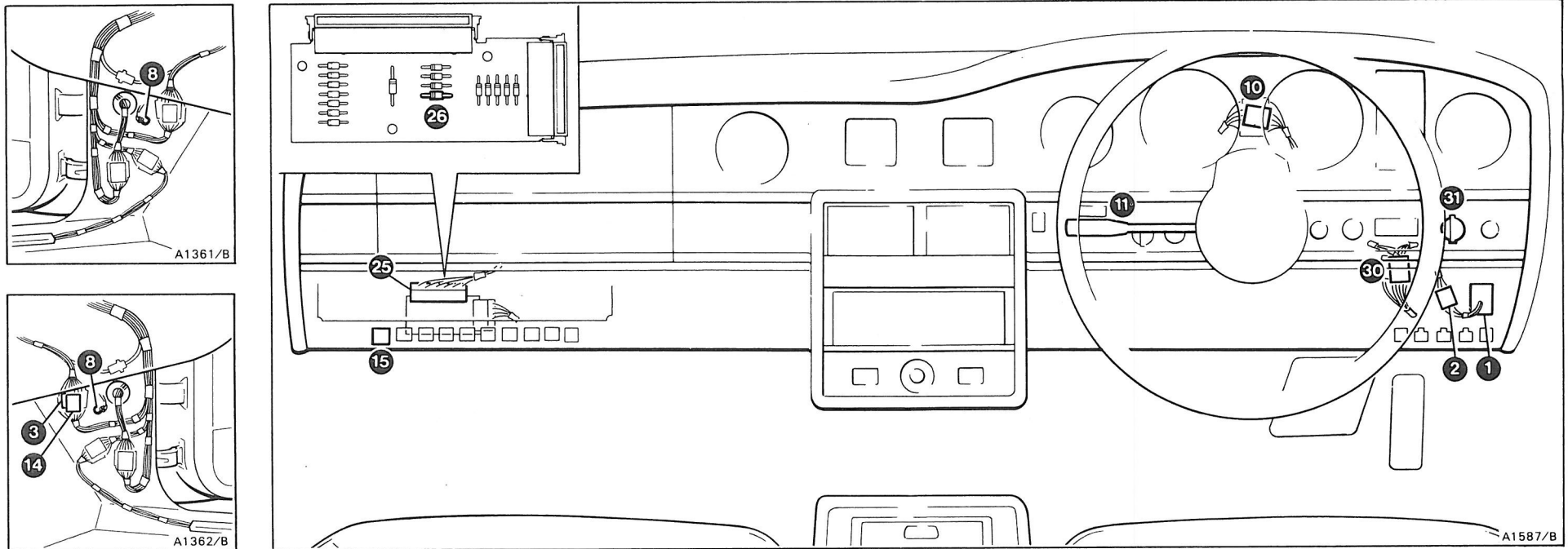
Immediately the motor rotates the 'Park on screen' switch is set to the Run position and a 12 volt positive supply is fed via the Run position to maintain 12 volts positive at the coil of relay 1.

After one wipe cycle the motor sets the 'Park on screen' switch to the Park position, thus de-energizing relay 1 and disconnecting the motor supply. The motor stops with the screen wiper blades in the 'Park on screen' position.

After the appropriate switch position time delay (i.e. position 1 three seconds, position 2 seven seconds, position 3 fourteen seconds, position 4 twenty one seconds), the electronic control unit of the system again sets a momentary 12 volts positive supply at terminal 2 causing the cycle to be repeated.

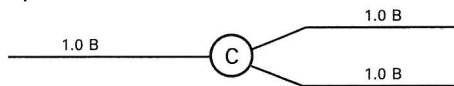
The intermittent wipe cycle continues until the windscreen wiper control switch is set to the OFF position.



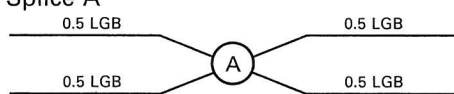


**Key to 15-13**

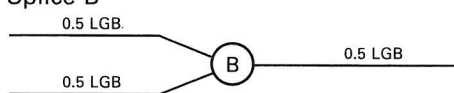
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Right-hand main to valance loom plug and socket 12-way
- 4 Windscreen wipers motor plug and socket 7-way
- 5 Windscreen wipers motor
- 6 'Park off screen' micro-switch
- 7 Windscreen washers fluid level float switch
- 8 'A' post earth points
- 9 Splice C



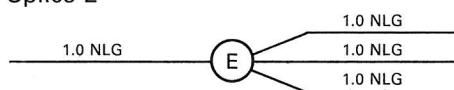
- 10 Steering column plug and socket 7-way
- 11 Washers switch (column)
- 12 Splice A



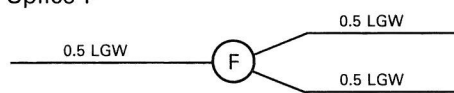
- 13 Splice B



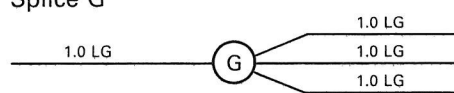
- 14 Right-hand main to valance loom plug and socket 6-way
- 15 Headlamps power wash timer
- 16 Windscreen washers pump
- 17 Windscreen wipers motor suppressor
- 18 Windscreen wipers motor relay 3
- 19 Windscreen wipers motor relay 1
- 20 Windscreen wipers motor relay 2
- 21 Splice E



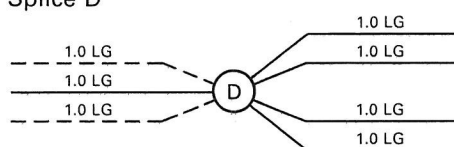
- 22 Splice F



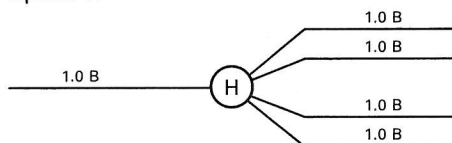
- 23 Splice G



- 24 Splice D



- 25 Diode board plug 18-way
- 26 Diode (diode board)
- 27 Right-hand valance earth point (engine compartment)
- 28 Splice H



- 29 Fuseboard F2, fuse B1, 20 Amp
- 30 Outer switch panel plug and socket 12-way
- 31 Windscreen wipers control switch

**Circuit description**

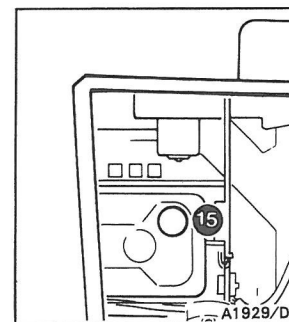
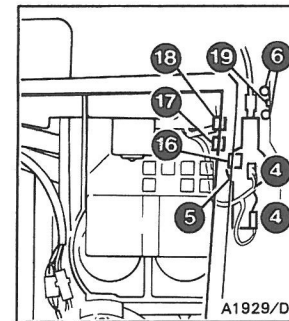
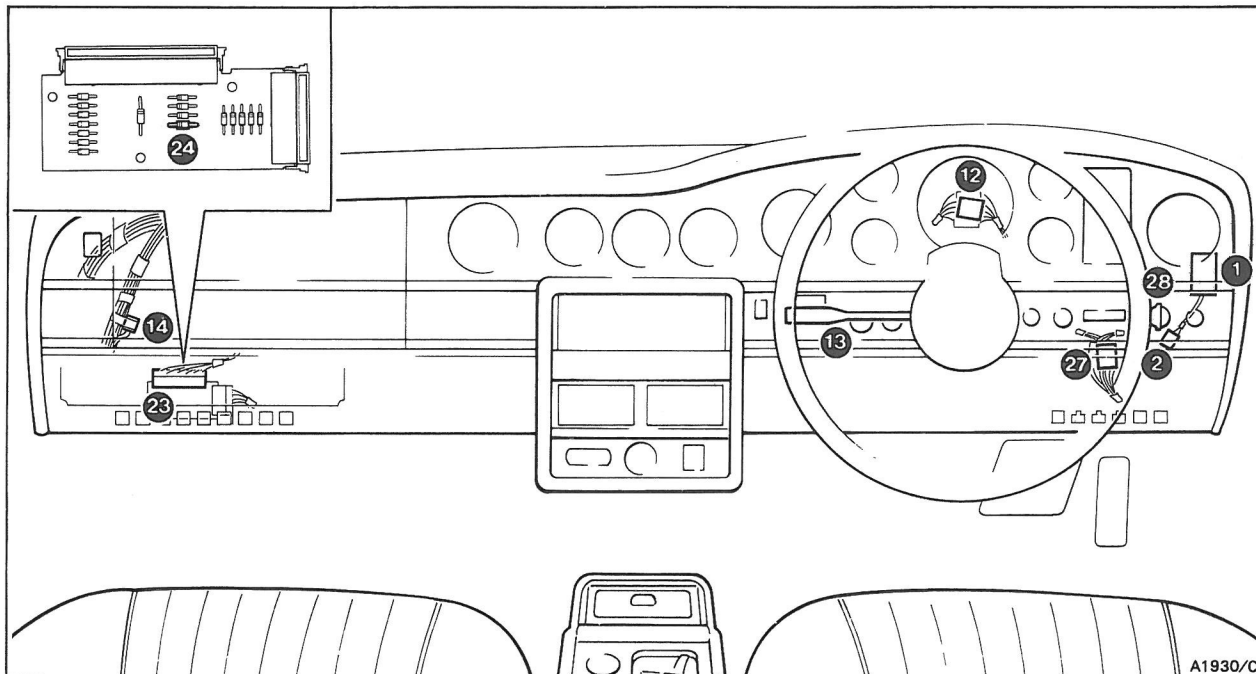
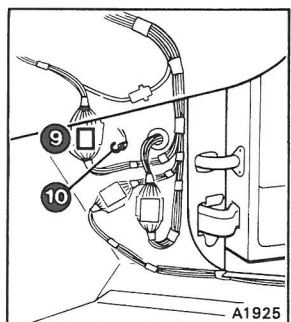
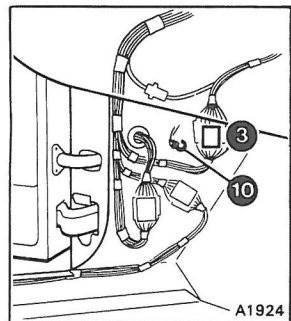
**Wash/wipe mode**

With the ignition switch in the RUN or ACC position the screen washer pump receives a 12 volts positive supply from fuse B1 at fuseboard F2. Depressing the wash/wipe switch on the steering column provides an earth path for the pump which then operates.

The wash/wipe switch also provides an earth path for the light green/black wire at the wiper system electronic control unit. This (after a delay of approximately 0.5 sec) provides a 12 volts positive supply at terminal 2 of the control unit, energizing relay 1 and thereby allowing 12 volts positive through the normally open contacts of relay 1, and through the normally closed contacts of relay 3, to the slow speed brush of the wiper motor. The earth path for the wiper motor is directed through the normally closed contacts of relay 2 to the valance earth point.

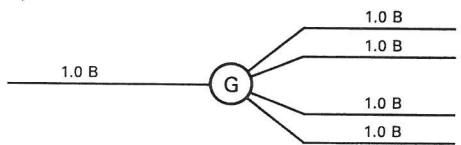
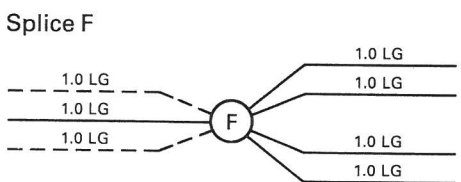
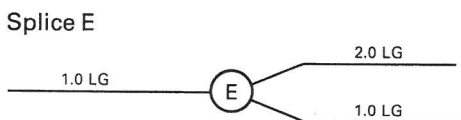
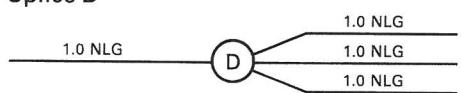
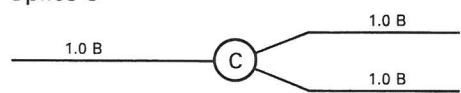
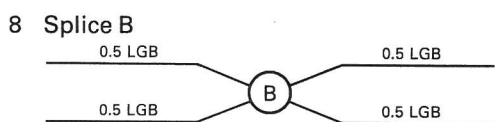
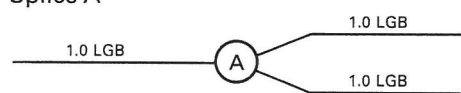
On releasing the wash/wipe switch the screen wash pump stops immediately, but the wiper system control unit maintains the 12 volt positive supply at terminal 2 for a further five seconds causing the wiper motor to complete approximately five cycles. The wipe cycle ends with the wiper blades in the parked position, details of which are shown in the diagrams for the OFF position.





**Key to 15-15**

- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A
- 8 Splice B
- 9 Right-hand main to valance loom plug and socket 6-way
- 10 'A' post earth points
- 11 Splice C
- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)
- 20 Splice D
- 21 Splice E
- 22 Splice F
- 23 Diode board plug 18-way
- 24 Diode (diode board)
- 25 Splice G
- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch

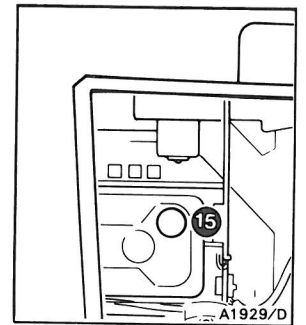
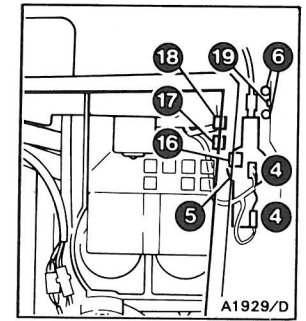
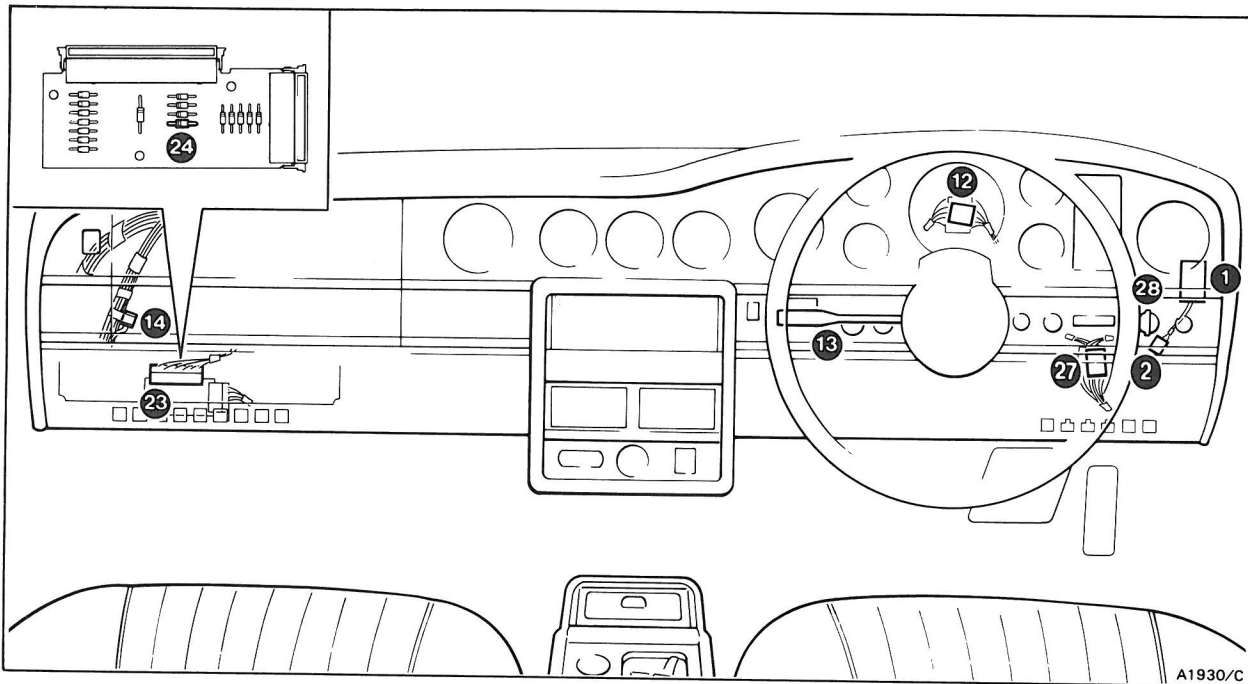
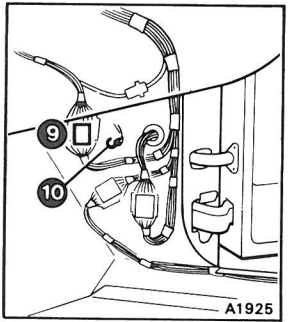
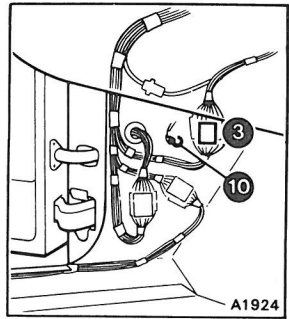


Switch position	Terminals connected
	1 — 2
	1 — 3
	1 — 3 — LG — 4 — 14
	1 — 5    7 — 8    9 — 10
	1 — 5    7 — 8    9 — 11
	1 — 5    7 — 8    9 — 12
	1 — 5    7 — 8    9 — 13

**Circuit description**

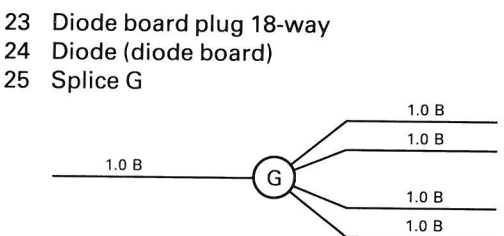
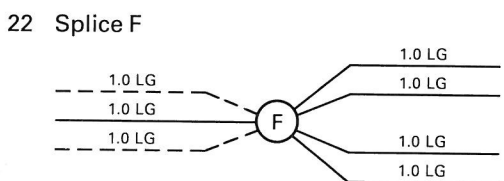
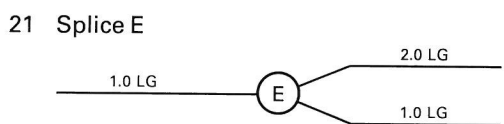
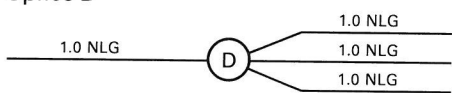
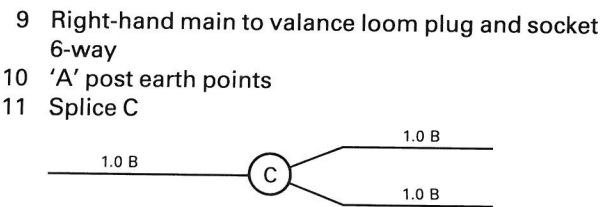
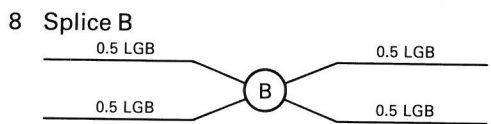
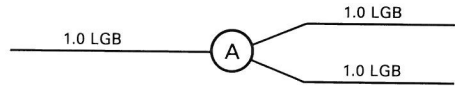
**OFF position**  
 With the windscreen wiper control switch in the OFF position, switch contacts 1 and 2 are closed. If the screen wiper system is operating and OFF position is then selected the wiper motor continues to rotate until the motor sets the 'Park on screen' switch (within the motor assembly) to the Park position. This breaks the 12 volts positive supply to the coil of relay 3, thereby de-energizing the relay and removing the 12 volts positive supply from the slow speed brush of the wiper motor.  
 The slow speed brush of the wiper motor now finds an earth path through the normally closed contacts of relays 1 and 3 to the valance earth point.  
 The coil of relay 2 receiving 12 volts positive from wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction, causing the 'Park off screen' switch to be set to the Park position. This disconnects the earth path causing the motor to stop with the windscreen wiper blades in the parked position.





**Key to 15-17**

- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A
- 8 Splice B
- 9 Right-hand main to valance loom plug and socket 6-way
- 10 'A' post earth points
- 11 Splice C
- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)
- 20 Splice D
- 21 Splice E
- 22 Splice F
- 23 Diode board plug 18-way
- 24 Diode (diode board)
- 25 Splice G
- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch



Switch position	Terminals connected
	1 — 2
	1 — 3
	1 — 3 — LG — 4 — 14
	1 — 5    7 — 8    9 — 10
	1 — 5    7 — 8    9 — 11
	1 — 5    7 — 8    9 — 12
	1 — 5    7 — 8    9 — 13

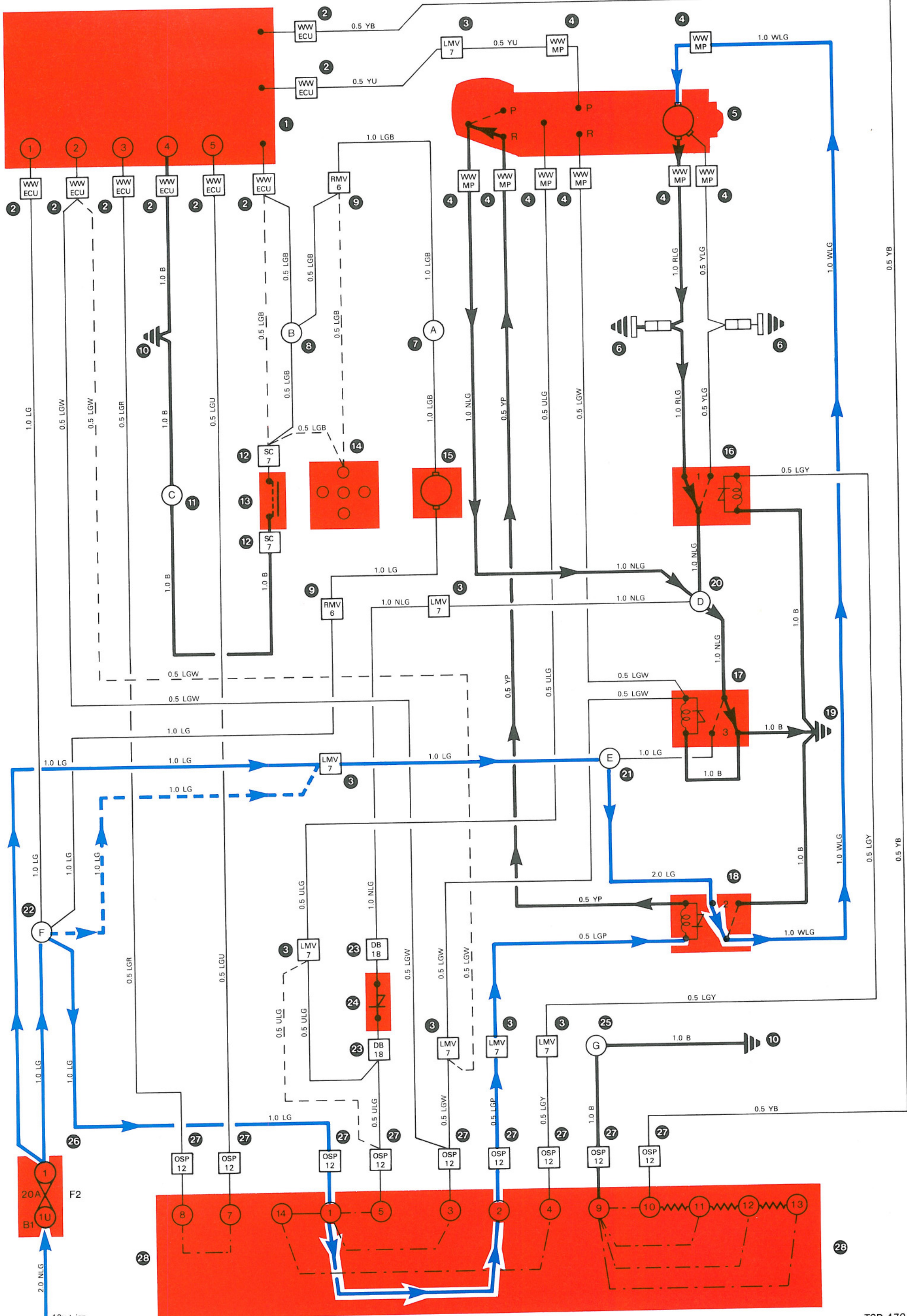
**Circuit description**

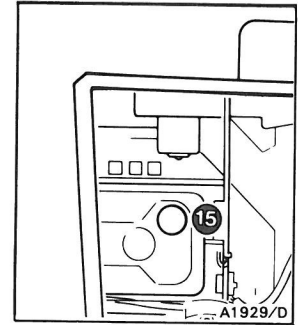
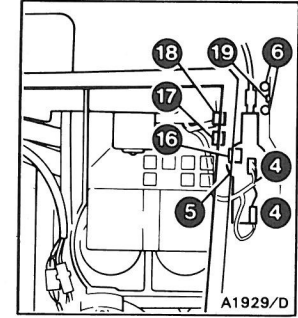
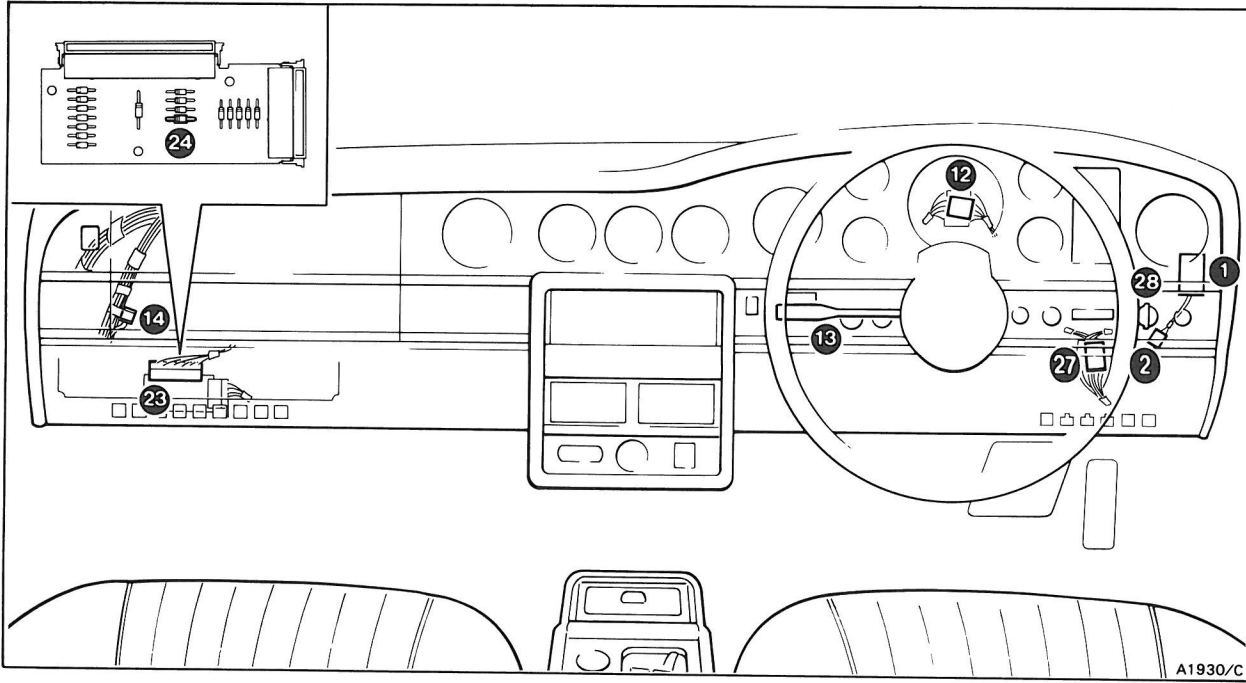
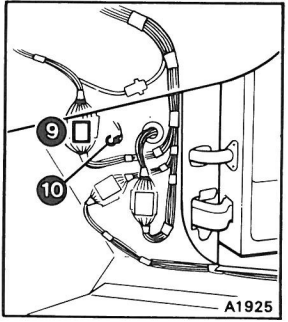
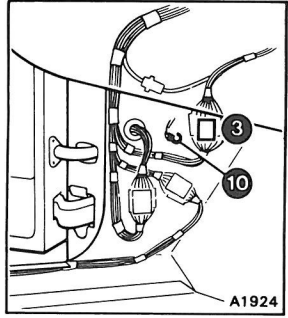
**OFF position**

With the windscreen wiper control switch in the OFF position, switch contacts 1 and 2 are closed. If the screen wiper system is operating and OFF position is then selected the wiper motor continues to rotate until the motor sets the 'Park on screen' switch (within the motor assembly) to the Park position. This breaks the 12 volts positive supply to the coil of relay 3, thereby de-energizing the relay and removing the 12 volts positive supply from the slow speed brush of the wiper motor.

The slow speed brush of the wiper motor now finds an earth path through the normally closed contacts of relays 1 and 3 to the valance earth point.

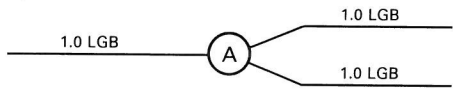
The coil of relay 2 receiving 12 volts positive from wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction, causing the 'Park off screen' switch to be set to the Park position. This disconnects the earth path causing the motor to stop with the windscreen wiper blades in the parked position.



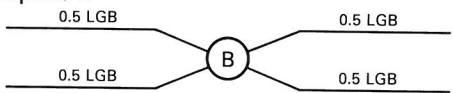


**Key to 15-19**

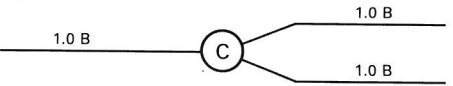
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A



**8 Splice B**

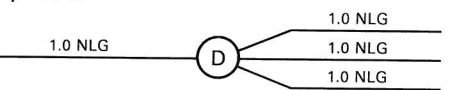


- 9 Right-hand main to valance loom plug and socket 6-way
- 10 'A' post earth points
- 11 Splice C

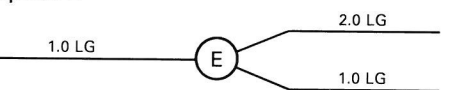


- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)

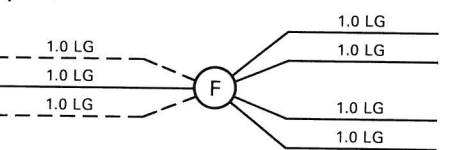
**20 Splice D**



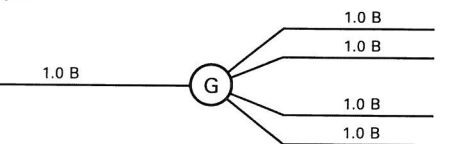
**21 Splice E**



**22 Splice F**



- 23 Diode board plug 18-way
- 24 Diode (diode board)
- 25 Splice G



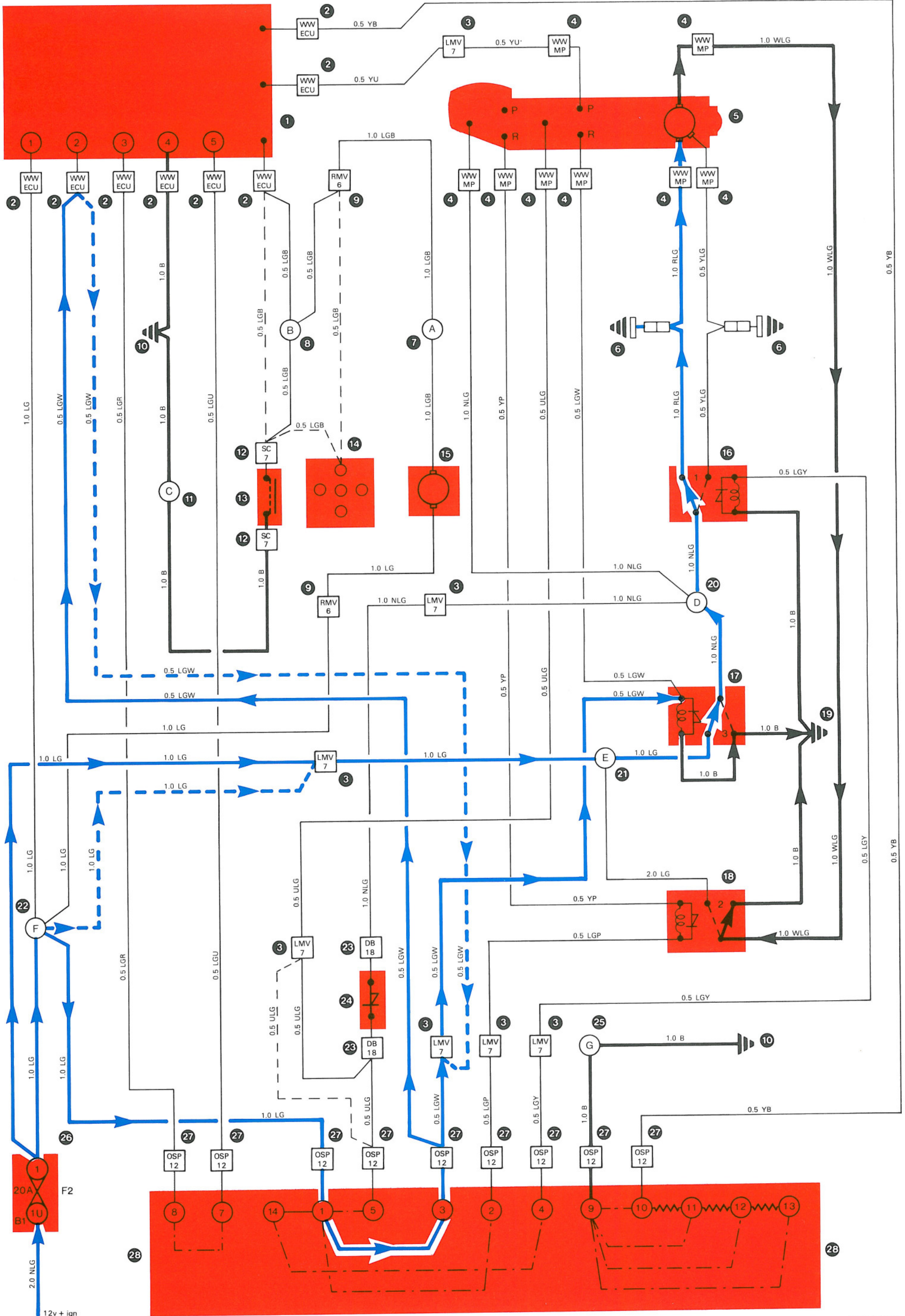
- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch

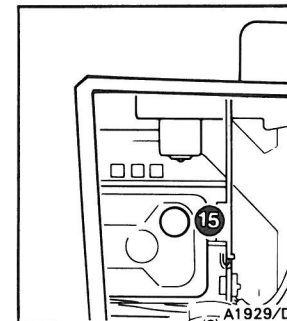
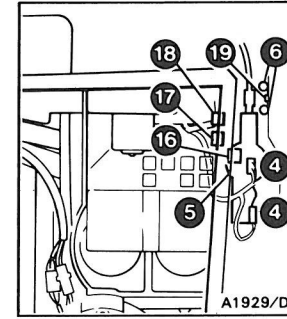
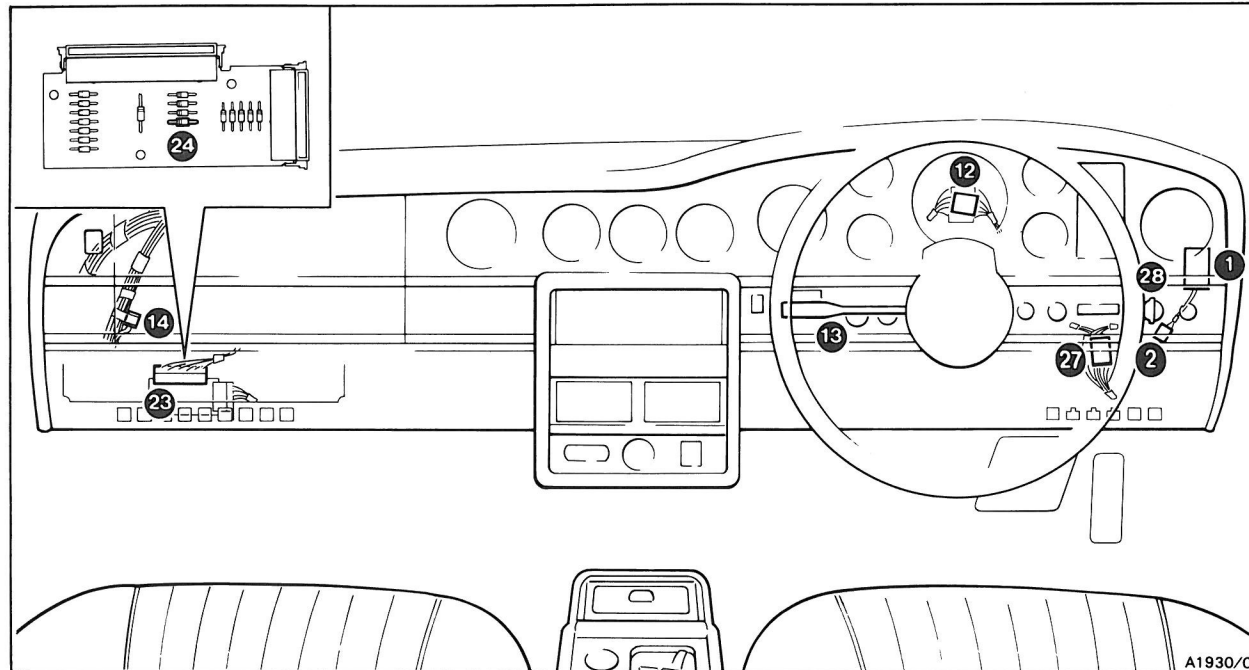
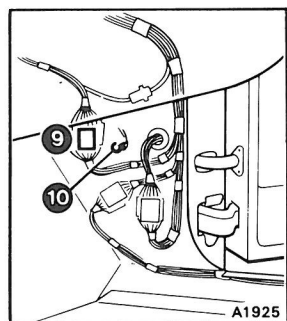
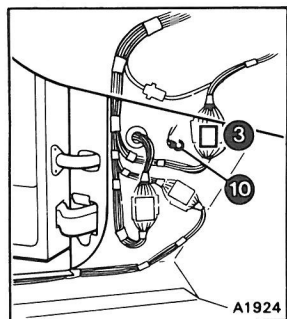
Switch position	Terminals connected
	1-2
	1-3
	1-3, LG, 4-14
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13

**Circuit description**

**SLOW speed position**

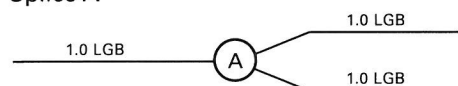
With the windscreen wiper control switch in the SLOW position, switch contacts 1 and 3 are closed. A 12 volts positive supply from fuse B1 at fuseboard F2 is directed through switch contacts 1 and 3 to energize relay 3. This allows a 12 volts positive supply to pass through the normally open contacts of relay 3 and via the normally closed contacts of relay 1 to the slow speed brush of the wiper motor. The earth path for the wiper motor is via the normally closed contacts of relay 2 to the valance earth point.



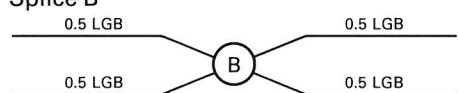


**Key to 15-21**

- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A



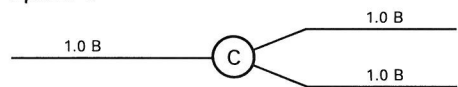
- 8 Splice B



- 9 Right-hand main to valance loom plug and socket 6-way

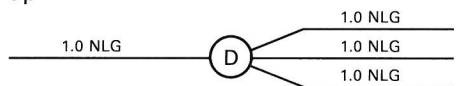
- 10 'A' post earth points

- 11 Splice C

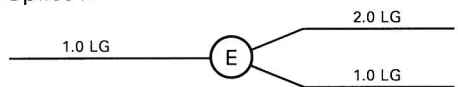


- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)

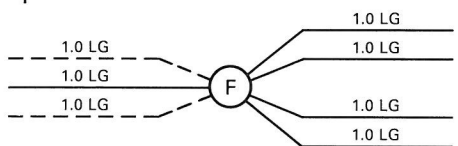
- 20 Splice D



- 21 Splice E



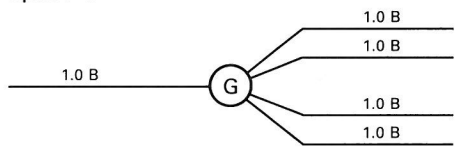
- 22 Splice F



- 23 Diode board plug 18-way

- 24 Diode (diode board)

- 25 Splice G



- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch

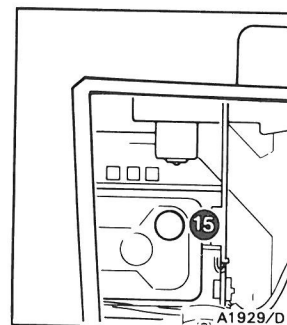
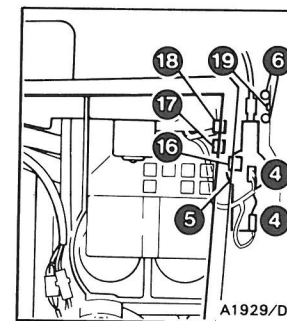
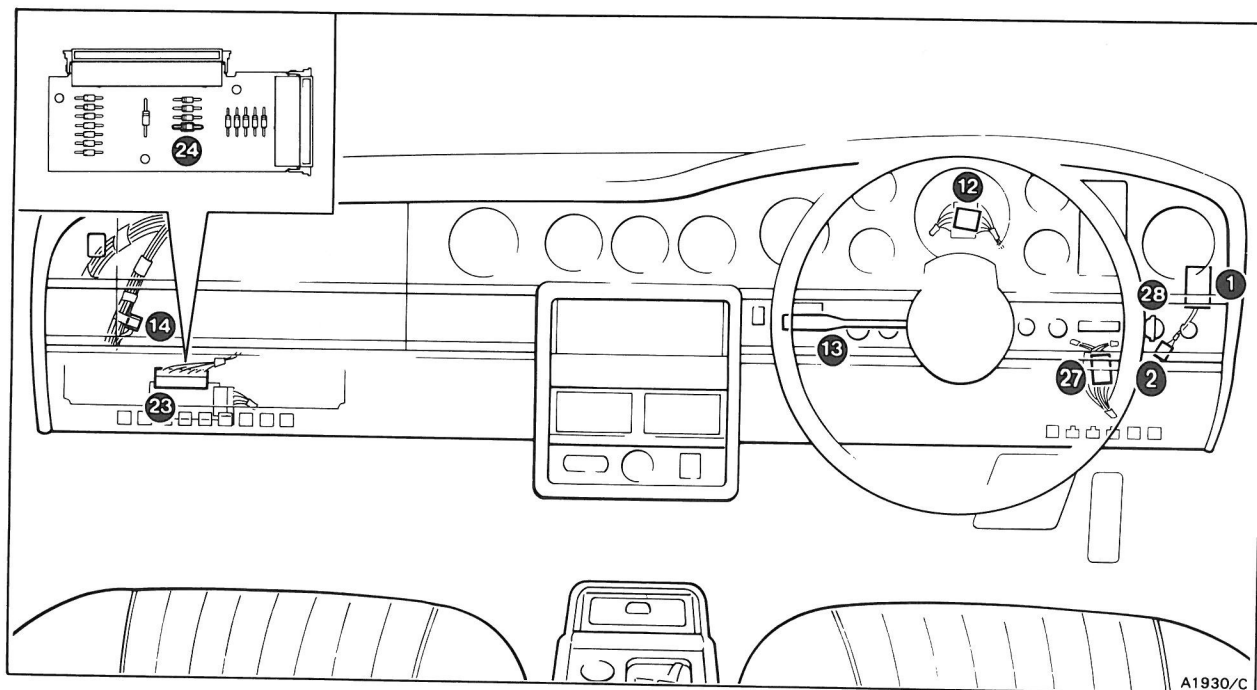
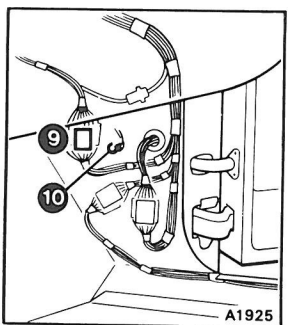
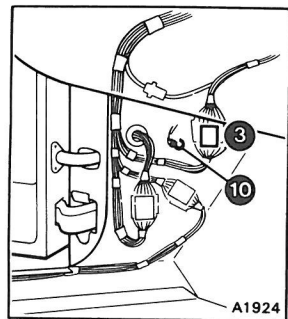
Switch position	Terminals connected
	1 — 2
	1 — 3
	1 — 3 — LG — 4 — 14
	1 — 5    7 — 8    9 — 10
	1 — 5    7 — 8    9 — 11
	1 — 5    7 — 8    9 — 12
	1 — 5    7 — 8    9 — 13

**Circuit description**

**FAST position**

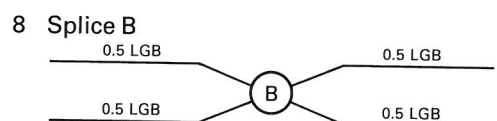
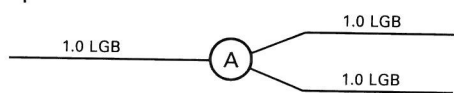
With the windscreen wiper control switch set to the FAST position, switch contacts 1 and 3 also 4 and 14 are closed. A 12 volts positive feed from fuse B1 at fuseboard F2 is directed via switch contacts 1 and 3 to energize relay 3 and close the normally open contacts. Simultaneously switch contacts 4 and 14 supply 12 volts positive from fuse B1 at fuseboard F2 to energize relay 1. With relays 1 and 3 energized 12 volts positive is passed through the normally open contacts of the relays to the fast speed brush of the wiper motor. The earth path for the wiper motor is via the normally closed contacts of relay 2 to the valance earth point.



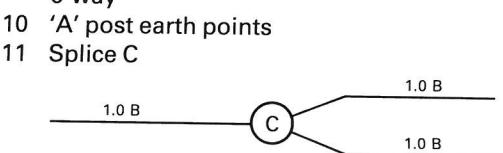


**Key to 15-23**

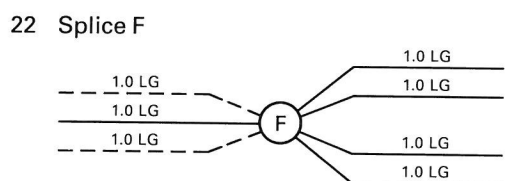
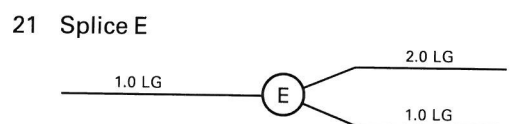
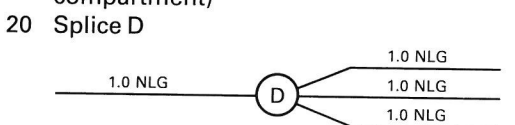
- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A



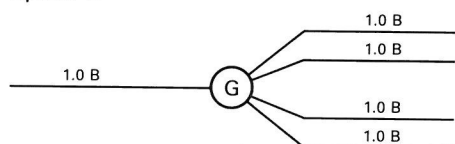
- 9 Right-hand main to valance loom plug and socket 6-way



- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)



- 23 Diode board plug 18-way
- 24 Diode (diode board)
- 25 Splice G



- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch

Switch position	Terminals connected
	1-2
	1-3
	1-3, 4-14
	1-5, 7-8, 9-10
	1-5, 7-8, 9-11
	1-5, 7-8, 9-12
	1-5, 7-8, 9-13

**Circuit description**

**4 position INTER (Intermittent) wipe**

With the windscreen wiper control switch in the INTER (Intermittent) wipe positions, the switch contacts 1 and 5, 7 and 8 are closed. Also, dependent on the intermittent delay position selected, switch contact 9 will be closed as follows; position 1 with contact 10, position 2 with contact 11, position 3 with contact 12, position 4 with contact 13.

When the switch contacts 7 and 8 are closed the wiper system electronic control unit provides a momentary 12 volt positive supply at terminal 2 of the unit to energize the coil of relay 3. With relay 3 energized a 12 volt positive supply is directed to the normally open contacts of relay 3 and through the normally closed contacts of relay 1 to the slow speed brush of the wiper motor. The earth path for the wiper motor is directed through the normally closed contacts of relay 2 to the valance earth point. The motor then rotates.

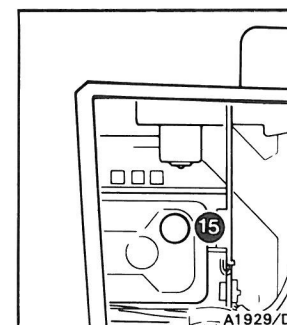
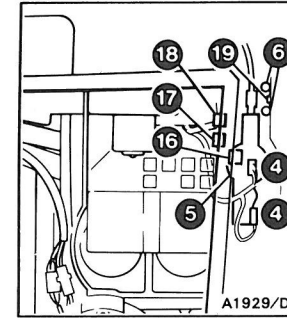
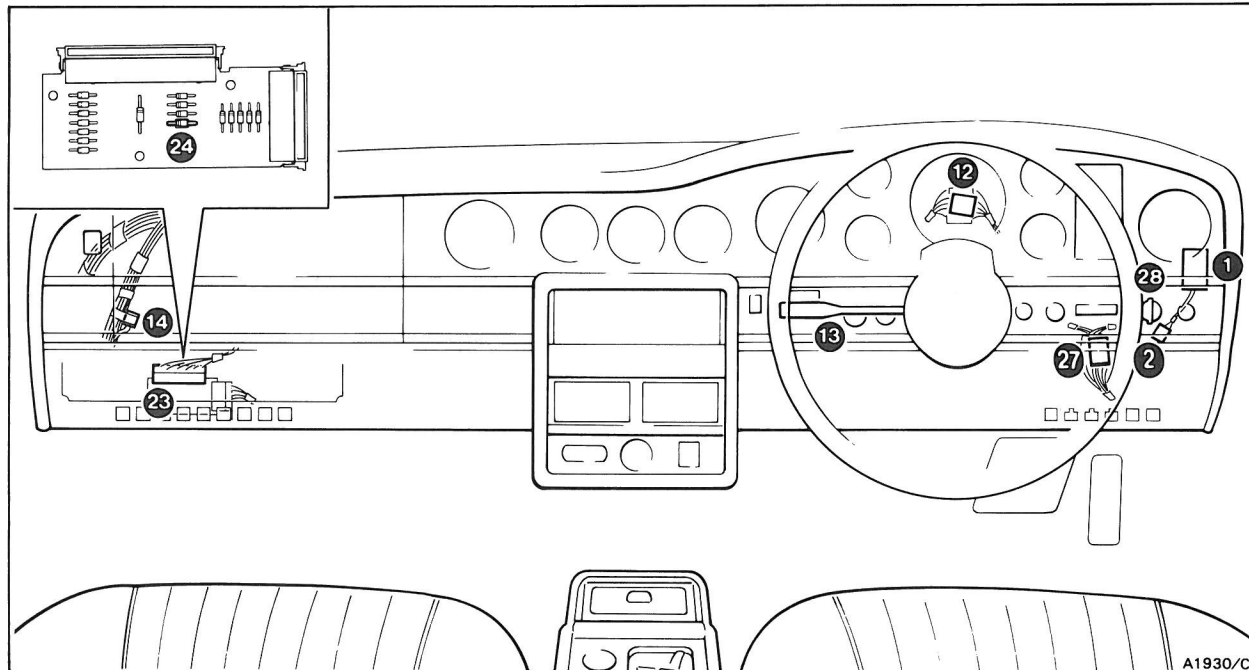
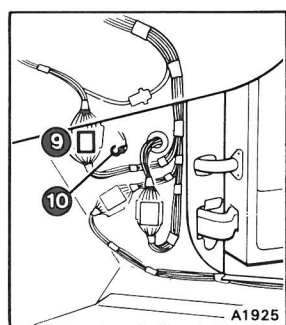
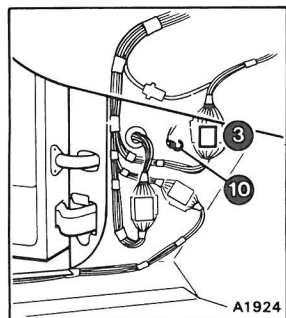
Immediately the motor rotates the 'Park on screen' switch is set to the Run position and a 12 volt positive supply is fed via the Run position to maintain 12 volts positive at the coil of relay 3.

After one wipe cycle the motor sets the 'Park on screen' switch to the Park position, thus de-energizing relay 3 and disconnecting the motor supply. The motor stops with the screen wiper blades in the 'Park on screen' position.

After the appropriate switch position time delay (i.e. position 1 three seconds, position 2 seven seconds, position 3 fourteen seconds, position 4 twenty one seconds), the electronic control unit of the system again sets a momentary 12 volts positive supply at terminal 2 causing the cycle to be repeated.

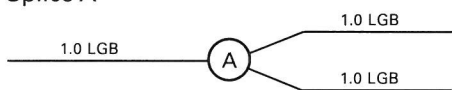
The intermittent wipe cycle continues until the windscreen wiper control switch is set to the OFF position.



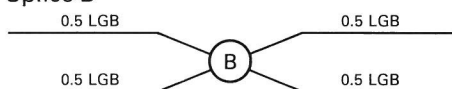


**Key to 15-25**

- 1 Windscreen wipers motor electronic control unit
- 2 Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- 4 Windscreen wipers motor plugs
- 5 Windscreen wipers motor
- 6 Windscreen wipers motor suppressors
- 7 Splice A



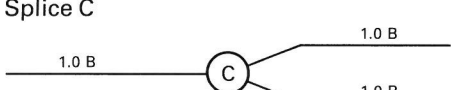
8 Splice B



9 Right-hand main to valance loom plug and socket 6-way

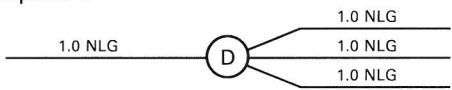
10 'A' post earth points

11 Splice C

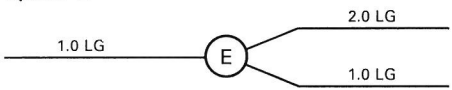


- 12 Steering column plug and socket 7-way
- 13 Washers switch (column)
- 14 Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)

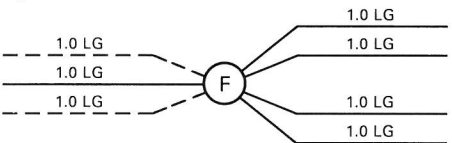
20 Splice D



21 Splice E



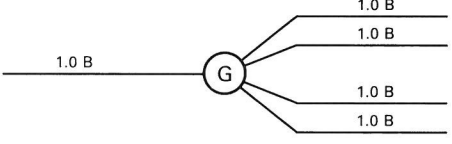
22 Splice F



23 Diode board plug 18-way

24 Diode (diode board)

25 Splice G



- 26 Fuseboard F2, fuse B1, 20 Amp
- 27 Outer switch panel plug and socket 12-way
- 28 Windscreen wipers control switch

**Circuit description**

**Wash/wipe mode**

With the ignition switch in the RUN or ACC position the screen washer pump receives a 12 volts positive supply from fuse B1 at fuseboard F2. Depressing the wash/wipe switch on the steering column provides an earth path for the pump which then operates.

The wash/wipe switch also provides an earth path for the light green/black wire at the wiper system electronic control unit. This (after a delay of approximately 0.5 sec) provides a 12 volts positive supply at terminal 2 of the control unit, energizing relay 3 and thereby allowing 12 volts positive through the normally open contacts of relay 3, and through the normally closed contacts of relay 1, to the slow speed brush of the wiper motor. The earth path for the wiper motor is directed through the normally closed contacts of relay 2 to the valance earth point.

On releasing the wash/wipe switch the screen wash pump stops immediately, but the wiper system control unit maintains the 12 volt positive supply at terminal 2 for a further five seconds causing the wiper motor to complete approximately five cycles. The wipe cycle ends with the wiper blades in the parked position, details of which are shown in the diagrams for the OFF position.

