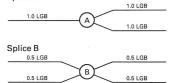
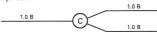


Key to 15-15

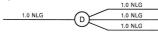
- Windscreen wipers motor electronic control unit
- Windscreen wipers motor electronic control unit plug and socket
- Left-hand main to valance loom plug and socket 7-way
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A



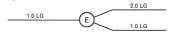
- Right-hand main to valance loom plug and socket 6-way
- 10 'A' post earth points
- Splice C



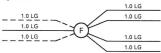
- Steering column plug and socket 7-way
- 13 Washers switch (column)
- Headlamps power wash timer relay base 14
- Windscreen washers pump
- 16 Windscreen wipers relay 1
- 17 Windscreen wipers relay 3
- Windscreen wipers relay 2
- Left-hand valance earth point (engine compartment)
- 20 Splice D



21 Splice E



22 Splice F



- 23 Diode board plug 18-way
- Diode (diode board)
- 25 Splice G 1.0 B 1.0 B 1.0 B 1.0 B
- Fuseboard F2, fuse B1, 20 Amp
- Outer switch panel plug and socket 12-way
- Windscreen wipers control switch

Switch Terminals connected position (1)---(2) 1)—3 ①_3 4)-9 9 9

-(5) 7-8 9-

Circuit description

OFF position

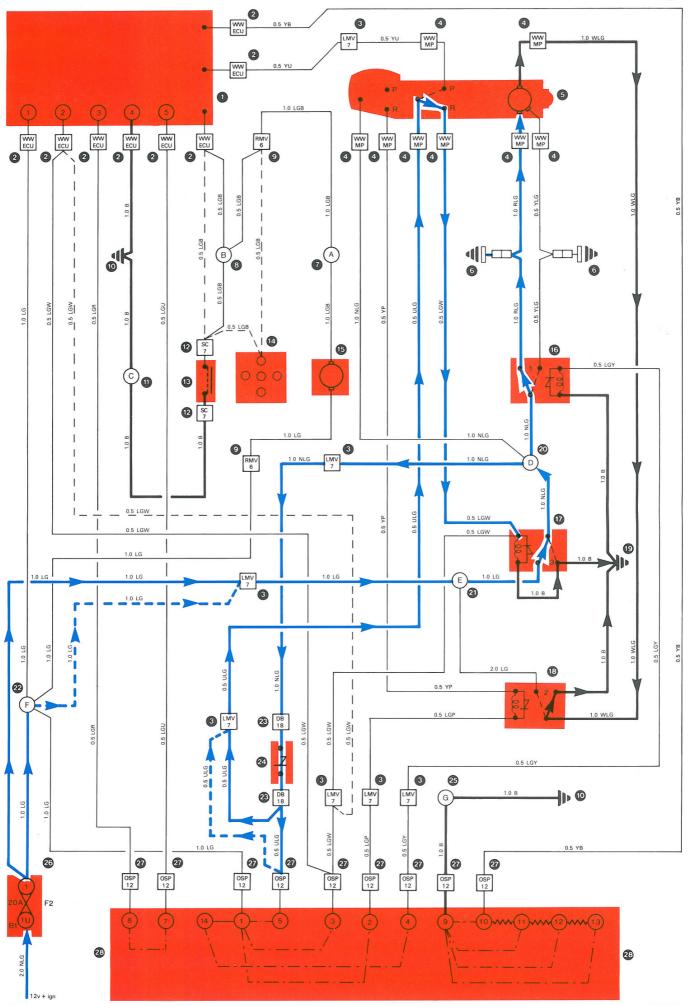
With the windscreen wiper control switch in the OFF position, switch contacts 1 and 2 are closed. If the screen wiper system is operating and OFF position is then selected the wiper motor continues to rotate until the motor sets the 'Park on screen' switch (within the motor assembly) to the Park position. 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

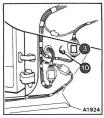
wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction, causing the 'Park off screen' switch to be set to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

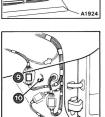


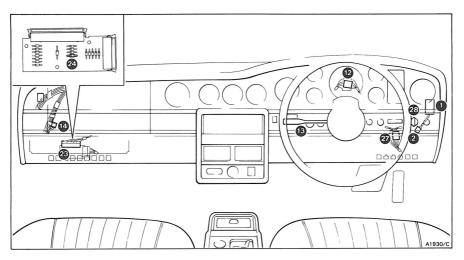


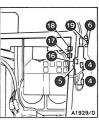
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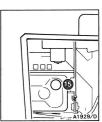






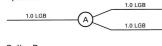


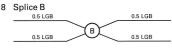




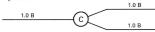
Key to 15-17

- Windscreen wipers motor electronic control unit
- Windscreen wipers motor electronic control unit plug and socket
- Left-hand main to valance loom plug and socket 7-way
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A

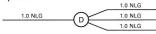




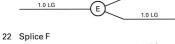
- Right-hand main to valance loom plug and socket
- 'A' post earth points
- 11 Splice C



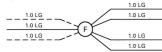
- Steering column plug and socket 7-way
- 13 Washers switch (column)
- Headlamps power wash timer relay base
- Windscreen washers pump
- Windscreen wipers relay 1 Windscreen wipers relay 3
- 16 17
- Windscreen wipers relay 2
- Left-hand valance earth point (engine compartment)
- 20 Splice D



21 Splice E



2.0 LG



- 23 Diode board plug 18-way
- Diode (diode board)
 - Splice G 1.0 B 1.0 B 1.0 B 1.0 B
- Fuseboard F2, fuse B1, 20 Amp
- Outer switch panel plug and socket 12-way
- Windscreen wipers control switch

Switch Terminals connected 1-2 **—**(3) -14 4)-(8) (9) 9 9 -(5) 7 -(8) 9-

Circuit description

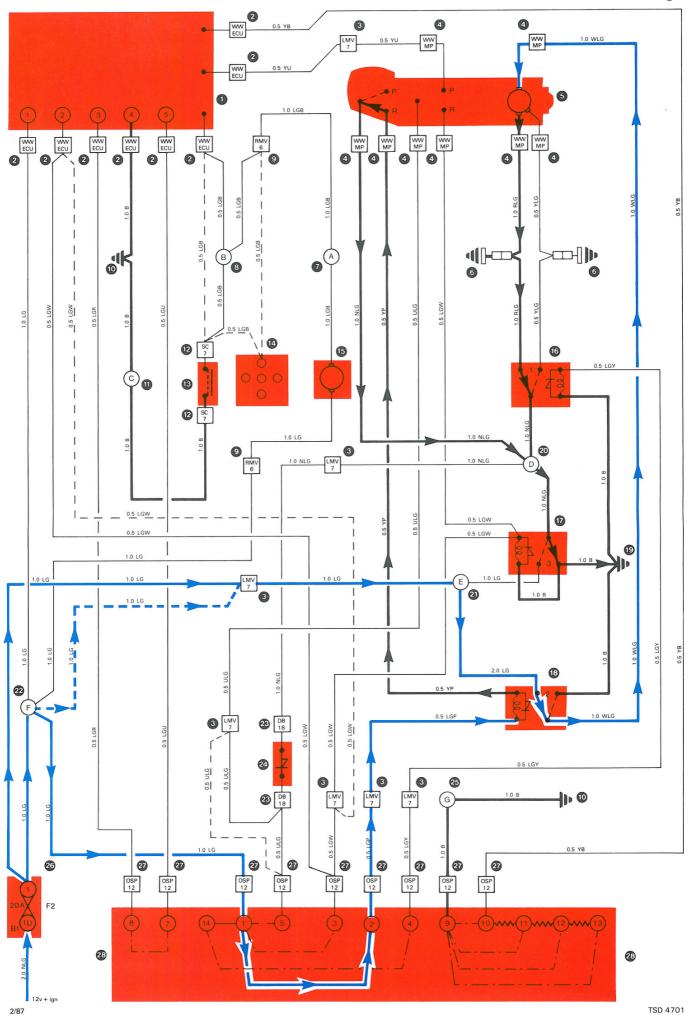
OFF position

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.

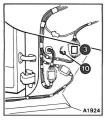
The coil of relay 2 receiving 12 volts positive from wiper switch contact 2, finds an earth path via the Run position of the 'Park off screen' switch, thereby energizing relay 2. This provides a 12 volts positive supply through the normally open contacts to the wiper motor. The motor reverses direction,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

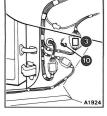


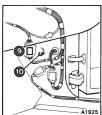


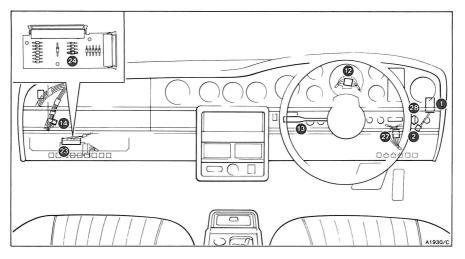
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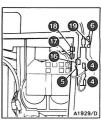


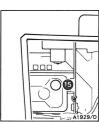






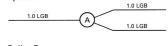


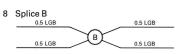




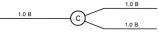
Key to 15-19

- Windscreen wipers motor electronic control unit
- Windscreen wipers motor electronic control unit plug and socket
- Left-hand main to valance loom plug and socket
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A

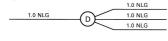




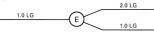
- Right-hand main to valance loom plug and socket 6-way
- 'A' post earth points
- 11 Splice C



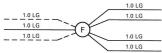
- Steering column plug and socket 7-way
- Washers switch (column)
- Headlamps power wash timer relay base
- Windscreen washers pump 15
- Windscreen wipers relay 1
- Windscreen wipers relay 3
- Windscreen wipers relay 2
- Left-hand valance earth point (engine compartment)
- 20 Splice D



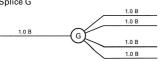
21 Splice E



22 Splice F



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



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

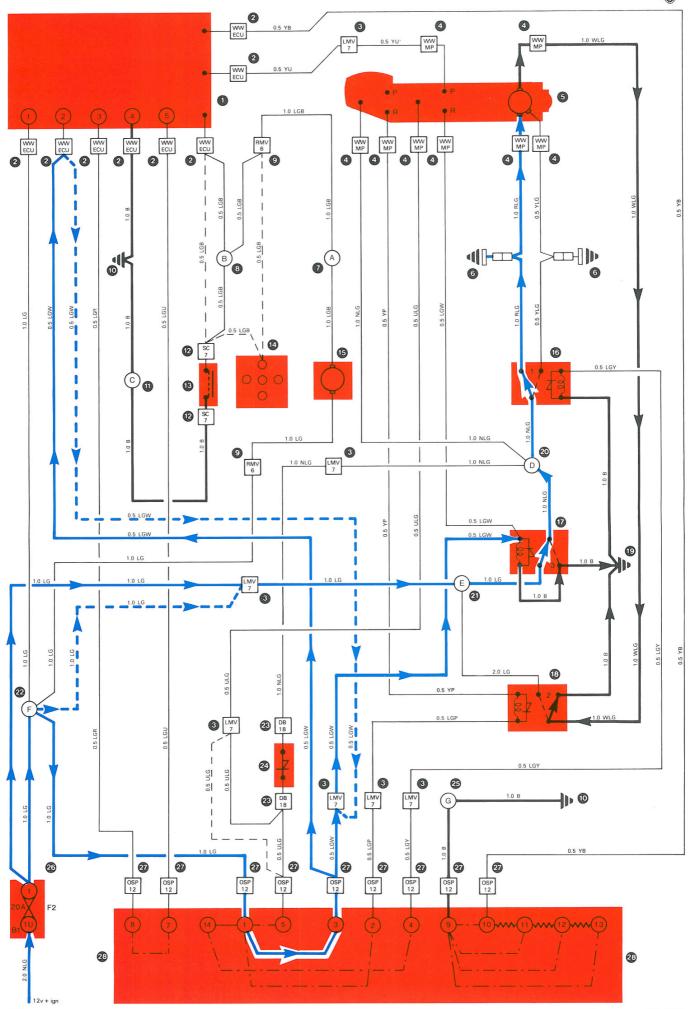
Switch Terminals connected 1-2 1-3 1 3 4—4 -8 9-9 -(5) 8 **-**⑤ ⑦**-**-8 9-

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.

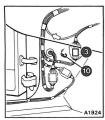


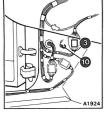


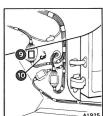
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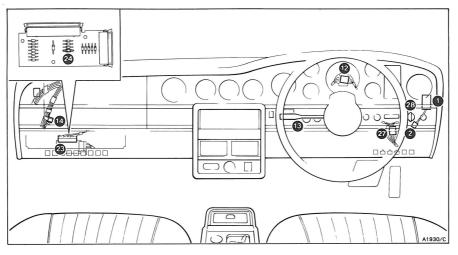
TSD 4701 **15-19**

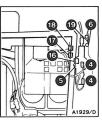


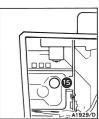






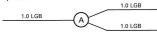


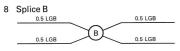




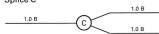
Key to 15-21

- Windscreen wipers motor electronic control unit Windscreen wipers motor electronic control unit
- plug and socket Left-hand main to valance loom plug and socket
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A

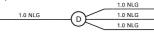




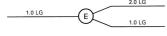
- Right-hand main to valance loom plug and socket 6-way
- 'A' post earth points 10
- 11 Splice C



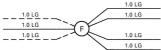
- Steering column plug and socket 7-way
- Washers switch (column)
- Headlamps power wash timer relay base
- 14 15 Windscreen washers pump
- Windscreen wipers relay 1 16
- Windscreen wipers relay 3
- Windscreen wipers relay 2
- Left-hand valance earth point (engine 19 compartment)
- 20 Splice D



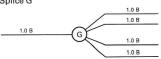
21 Splice E



22 Splice F



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



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

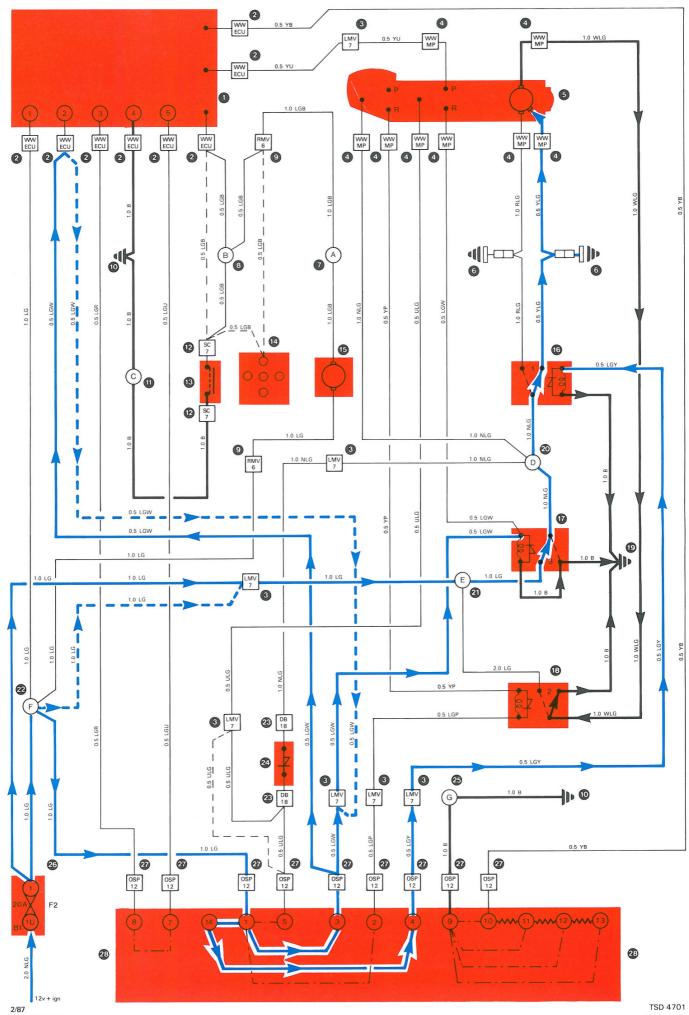
Switch Terminals connected position (5) 7 -8 9-(9) -(11) -(8) (9) (5) (7) -(8) 9----(3) -8 -(5) 7

Circuit description

FAST position

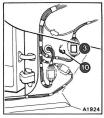
With the windscreen wiper control switch set to the FAST position, switch contacts 1 and 3 also 4 and 14 are closed. A 12 volts positive feed from fuse B1 at fuseboard F2 is directed via switch contacts 1 and 3 to energize relay 3 and close the normally open contacts. Simultaneously switch contacts 4 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.

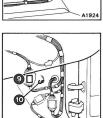


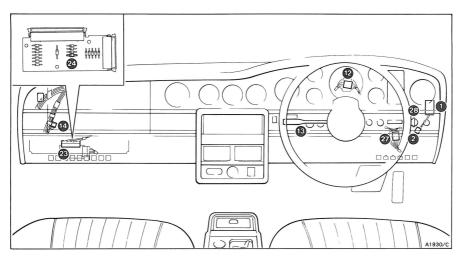


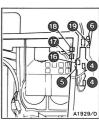
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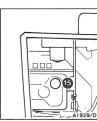






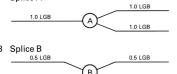




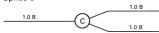


Key to 15-23

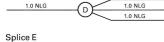
- Windscreen wipers motor electronic control unit Windscreen wipers motor electronic control unit
- plug and socket 3 Left-hand main to valance loom plug and socket 7-way
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A



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



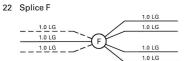
- Steering column plug and socket 7-way
- 13 Washers switch (column)
- Headlamps power wash timer relay base
- 15 Windscreen washers pump
- 16 17 Windscreen wipers relay 1
- Windscreen wipers relay 3
- Windscreen wipers relay 2 18
- Left-hand valance earth point (engine compartment)
- 20 Splice D



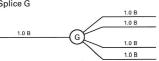
1.0 NLG

2.0 LG

1.0 LG



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



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

Switch Terminals connected position 1)---(2) 1)---3 ①_3 -14 **(4)**-7 -8 9-9-(5) -(5) 7 -8 9-

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.

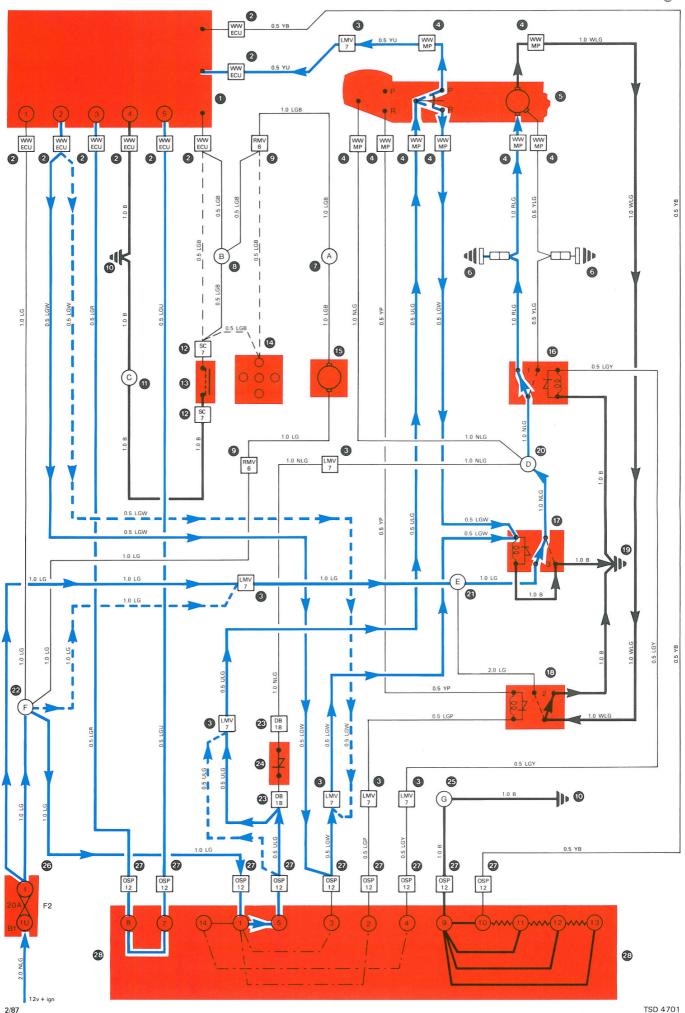
Immediately the motor rotates the 'Park on screen' switch is set to the Run position and a 12 volt positive supply is fed via the Run position to maintain 12 volts positive at the coil of relay 3.

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.

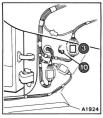
The intermittent wipe cycle continues until the windscreen wiper control switch is set to the OFF position.

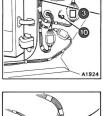




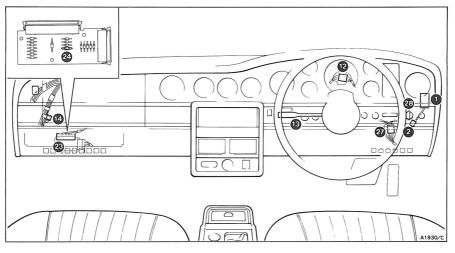
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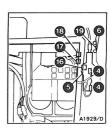


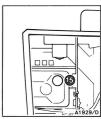






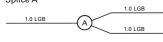




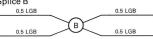


Key to 15-25

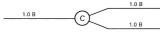
- Windscreen wipers motor electronic control unit
- Windscreen wipers motor electronic control unit plug and socket
- 3 Left-hand main to valance loom plug and socket 7-way
- Windscreen wipers motor plugs
- Windscreen wipers motor
- Windscreen wipers motor suppressors
- Splice A



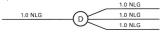




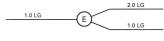
- Right-hand main to valance loom plug and socket 6-way
- 'A' post earth points
- 11 Splice C



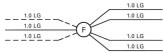
- Steering column plug and socket 7-way 12
- Washers switch (column)
- Headlamps power wash timer relay base
- 15 Windscreen washers pump
- Windscreen wipers relay 1 16
- 17 Windscreen wipers relay 3
- 18 Windscreen wipers relay 2
- 19 Left-hand valance earth point (engine compartment)
- Splice D



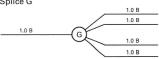
21 Splice E



22 Splice F



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



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

Circuit description

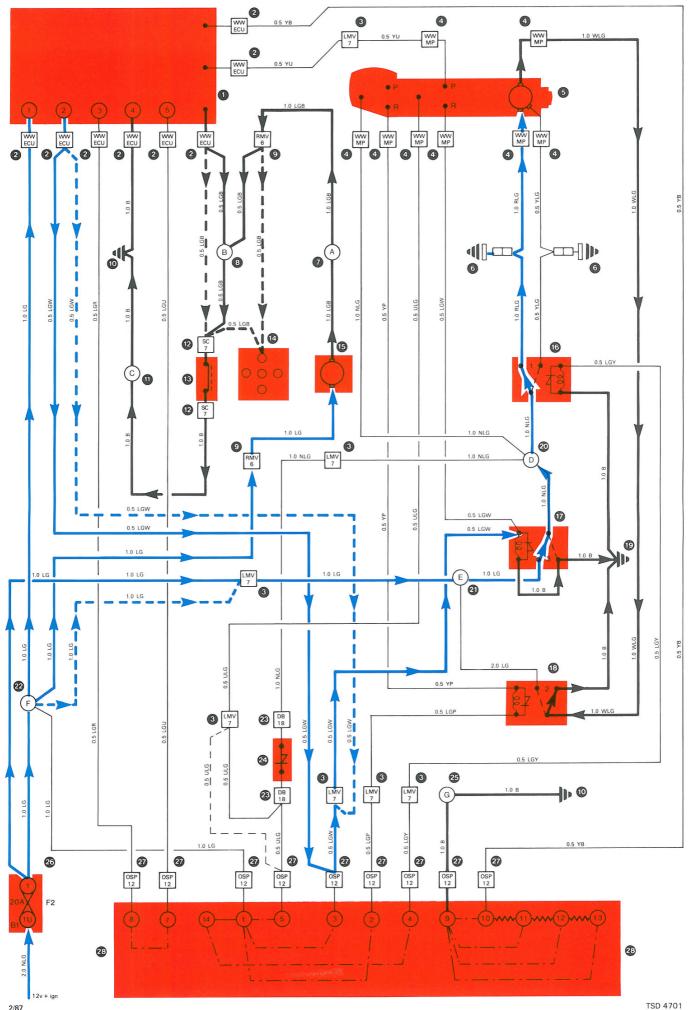
Wash/wipe mode

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.





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