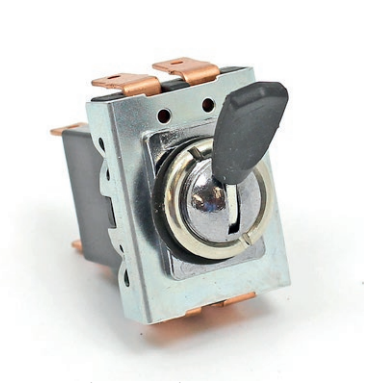
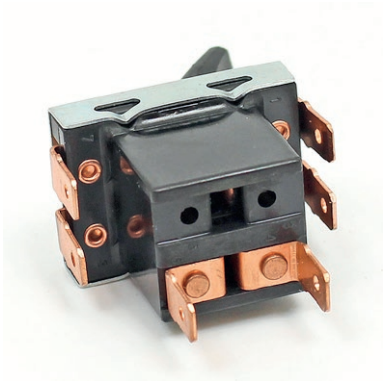
Guide to wiring the 35927 2-speed toggle switch to the Lucas type 14w wiper motor

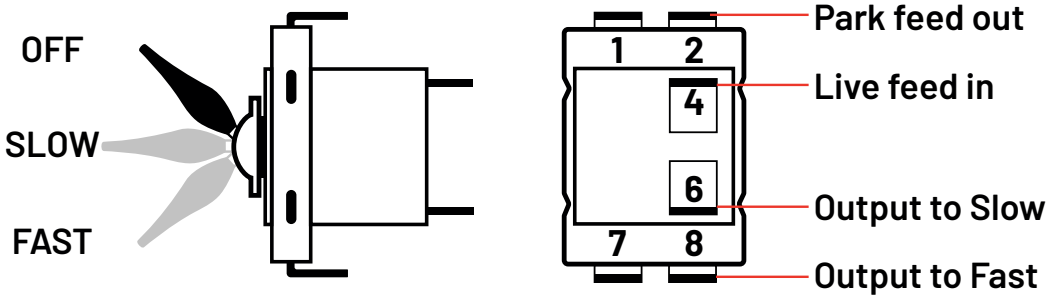
This is a popular combination, used on MGs, Triumphs, Land Rovers and Morgans. It is also popular with kit and special builders and as an upgrade modificatiin for older vehicles. This combination of the 35927 switch with the LRW110 motor gives 2 wiper speeds with a self-park function.

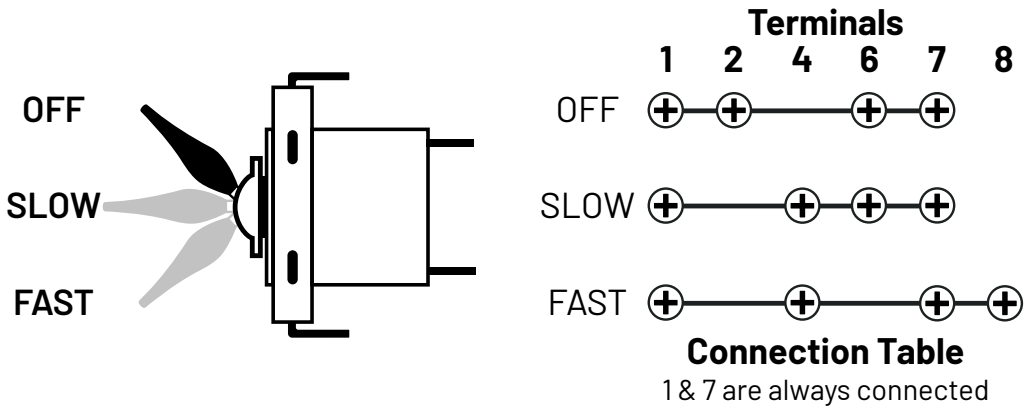




35927 Toggle Switch

Lucas type LRW110, 14w motor



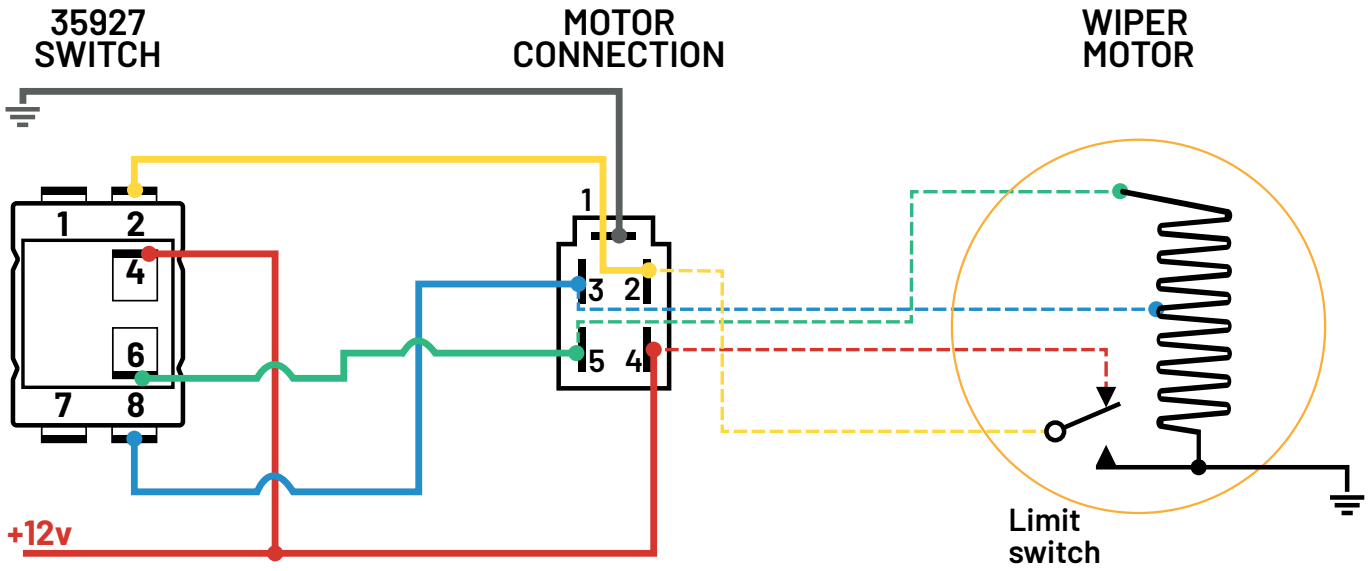


Connection Table

1 & 7 are always connected

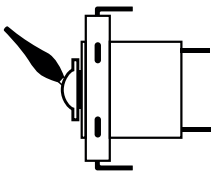
Notes

- Switch terminals 1 and 7 are always linked, regardless of switch position and are not used in this application.
- Switch terminal 4 is power feed to the switch, controlled by the ignition switch (a fused accessories circuit)

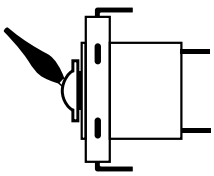


Note - colours are only illustrative, yours will be different
Diagram shows limit switch connected - wiper arms not yet parked

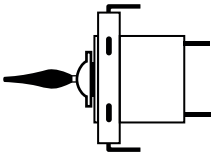
Explanation of circuit functions to aid troubleshooting



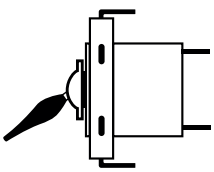
OFF (switch off, wiper arms **not** yet parked)
Switch terminals connected **1 - 2 - 6 - 7**
No direct power to 8 (Fast) or 6 (Slow)
Park function (2 on switch) is supplied power via the limit switch (yellow wire).
This is connected to Slow (6 on switch)
Power supplied by green wire, motor runs until limit switch is tripped to off.



OFF (switch off, wiper arms are parked)
Switch terminals connected **1 - 2 - 6 - 7**
No direct power to 8 (Fast) or 6 (Slow)
Limit switch NOT supplying power
Motor at stop



SLOW
Switch terminals connected **1 - 4 - 6 - 7**
Power from 4 at switch is connected to 6 (Slow)
Green wire supplies power to resistor/coil in motor
Motor runs slow



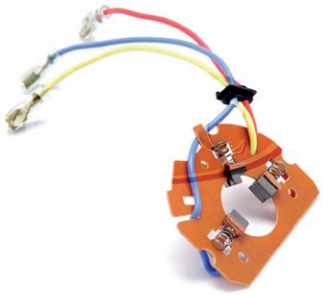
FAST
Switch terminals connected **1 - 4 - 7 - 8**
Power from 4 at switch is connected to 8 at switch (Fast)
Blue wire supplies power to connection 3 at motor
Motor runs fast

This is the basic circuit, you may need to adapt the wire colours.

It is recommended to add relays to the circuit to reduce power drops and protect the switch.
Postion these near to the wiper motor.

Some people recommend adding an earth wire to the wiper motor body, but this shouldn't be needed.

Replacement park switch (Limit Switch) and connection block for 14w wiper motor



Replacement brush and pad set for 14w wiper motor - repair & restore.

Drive gear, from 90° to 130° sweep. Available in 5 degree increments.

Wiper wheel boxes for the Lucas type 14w wiper motor

Rubber mounding pad and strap to reduce body noise

Drive rack, supplied as a 1.5 metre length

Please note
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