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REF: J-RCWM1

XJ Wiper motor Relay control system

Notes:

The relays used can all be the switch type (5 pin) and need to be rated at 20 > amps

Each relay is clearly marked as to which pin is which.

Pins 85 and 86 are the coils 30/51 is the switch input Pin 87 is the output when hot (energised) Pin 87a is the output when cold (at rest)

All termination should be done with a roll over crimper tool and not the type that crushes the connector. They should all be terminated with slip insulators and 6.35mm female spade connectors.

Bulkhead connector: this is the 8 pin plug that fits the receptor under the wiper grille

Disconnect the Battery.

Method:

- 1. At the plug connector that drops onto the bulkhead connector you will need to do the following:
- 2. Cut the Yellow wire and extended both ends to reach the location chosen to mount the replays. Splice the Yellow wire from the bulkhead plug end to have two ends
- 3. Repeat for the White and Brown wires.
- 4. Run Six heavy gauge Black wires from the relay location back to a suitable earth point..
- 5. Connect one of the six black wires to a relay post 85 and repeat for the other three relays
- 6. Connect the two remaining black leads to pin 87a on two of the relays. Label these as relay 1 and 2
- 7. Connect some heavy gauge Brown wire to the terminal connection on the bulkhead and run this to a length that reaches the relay location splice in a fuse holder on route.
- 8. At the relay location take your new Brown +12v feed and splice in three wires.
- 9. Connect one of these Brown wires to Pin 87 of relay 1
- 10. Connect another one of these brown wires to pin 87 of relay 2
- 11. Connect the third to Pin 30/51 of a relay and label that one relay 3

- 12. Connect one of your two bulkhead connector side yellow wires to pin 86 of relay 3
- 13. Connect the other bulkhead connector side yellow wire to pin 86 of the remaining relay and label it relay 4
- 14. Connect the Motor end of the Yellow wire to pin 87 of relay 3
- 15. Connect the bulkhead plug end of the cut brown wire to pin 86 of relay 2
- 16. Connect the other end of the brown that goes to the motor connector to Pin 87a of relay 4
- 17. Connect the bulkhead connector end of the white wire to pin 86 of relay 1
- 18. Connect the motor end of the white wire to pin 30/51 of relay 1
- 19. Using a piece of blue wire connect one end to pin 30/51 of relay 4 and connect the other end to pin 30/51 of relay 2
- 20. Fit a suitable fuse in the fuse holder and reconnect the battery.

Lucas Wiper motor connections

Bulkhead connector viewed as if standing on engine facing windscreen;

Colour	Post	Post	Colour
	0	0	
W/LG	0	0	Ground
B/LG	0	0	O/LG
K/LG	0	0	

Ignition to ACC

Switch at fast wipe – W/LG post = 12 v+

Switch at slow wipe - B/LG post = 12 v+

Switch in Intermittent and off - K/LG post = 12 v+

Ignition to Off

Continuity between O LG and B LG posts in intermittent/flick and off modes only.

Ground pin to ground

Wiper Motor connector

Colour	Pin	Pin	Colour
	0	0	
Yellow	0	0	Green
Brown	0	0	Red
White	0	0	

Also see $\underline{\text{http://www.skjagtech.co.uk/html/xjs}}$ schmatics.htm and download the schematics.pdf

Thank you for your valued enquiry