Checking Windshield Wiper/Washer System, only for cars with blue illuminated instrument cluster

Required for troubleshooting :

- *Multimeter Fluke 83*
- *Connector Test Kit VW1594*
- *Valid wiring diagram*

Test Conditions:

- S240 Fuse 40 (25A) OK
- Wiper in off position
- Speedometer OK

CAUTION!
DO NOT damage, enlarge or bend connector terminals or cavities by forcing probes into them when performing electrical checks. Always use connector test kit VW 1594 to make the necessary electrical connections.

Preparation:

- Remove lower instrument panel cover ⇒ Repair Group 70
- Remove Wiper/Washer Intermitted Relay J31 (production control number 377) from auxiliary relay-panel

Troubleshooting procedure:

- Perform test steps according to table on page 10/2
- If specified value/test result is obtained, proceed to next step (test result OK !)
- If specified value/test result is not obtained, use table for troubleshooting and repair
- Use valid wiring diagram for wire testing
- Disconnect test leads after each step

If malfunction has not been eliminated after performing all steps,
replace Wiper/Washer Intermitted Relay J31 (production control number 377) !

After repairing malfunction, perform test of Wiper/Washer System.

Troubleshooting starts on next page !

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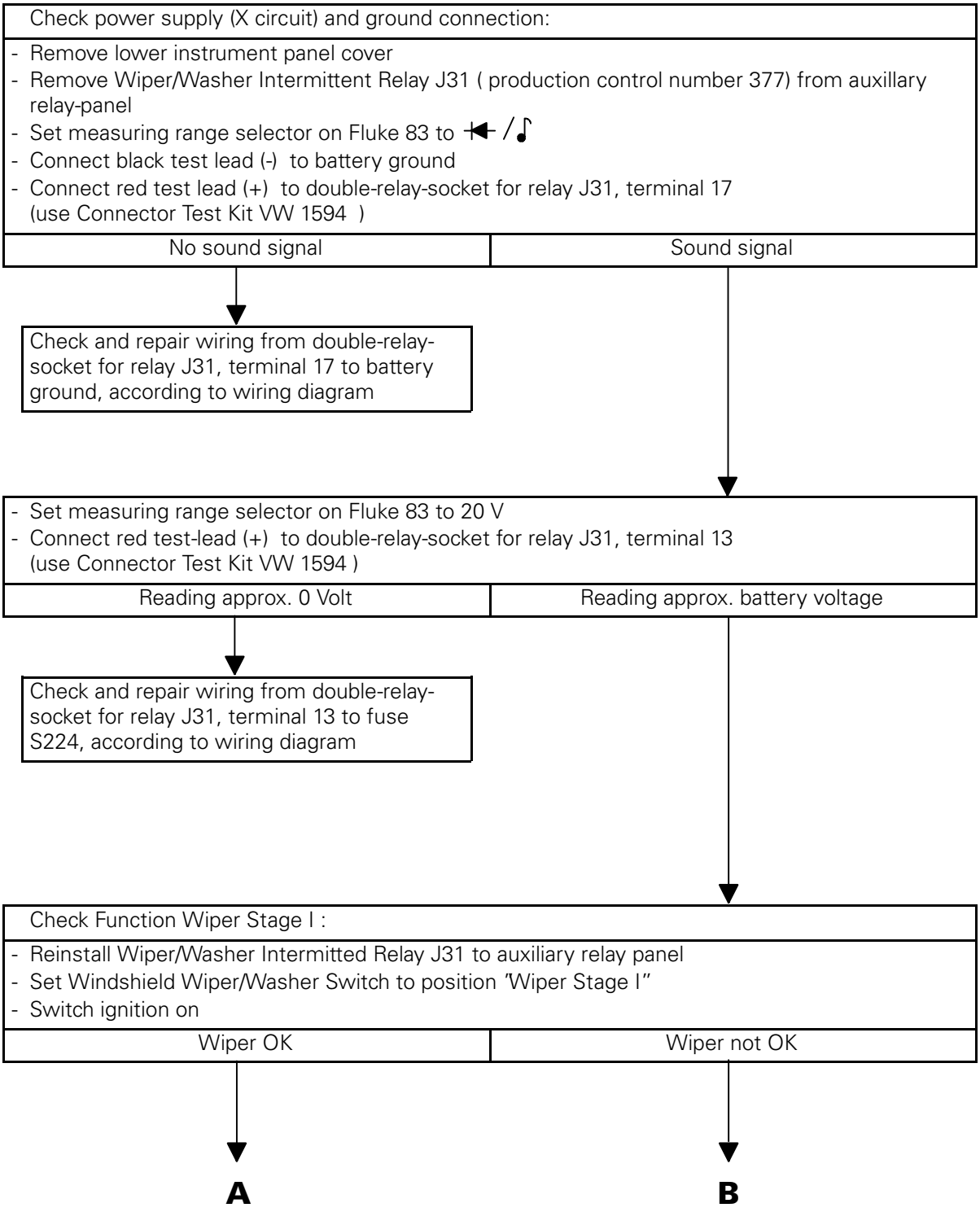


B

- Remove Wiper/Washer Intermittent Relay J31 from auxillary relay-panel
- Connect red test lead (+) to double-relay-socket for relay J31, terminal 8
- Connect black test lead (-) to double-relay-socket for relay J31, terminal 17 (use Connector Test Kit VW 1594)

Reading approx. 0 Volt	Reading approx. battery voltage

C

- Check and repair wiring from terminal 8 of double-relay-socket for relay J31 to terminal 1 of connector T8b, located on Windshield Wiper/Washer Switch, according to wiring diagram

Wiring not OK	Wiring OK
Repair wiring	Replace Windshield Wiper/Washer Switch (E22)

A

Check function Wiper Stage II

- Reinstall Wiper/Washer Intermittent Relay J31 to auxiliary relay panel
- Set Windshiled Wiper/Washer Switch to position "Wiper Stage II"
- Switch ignition on

Wiper not ok	Wiper ok

D

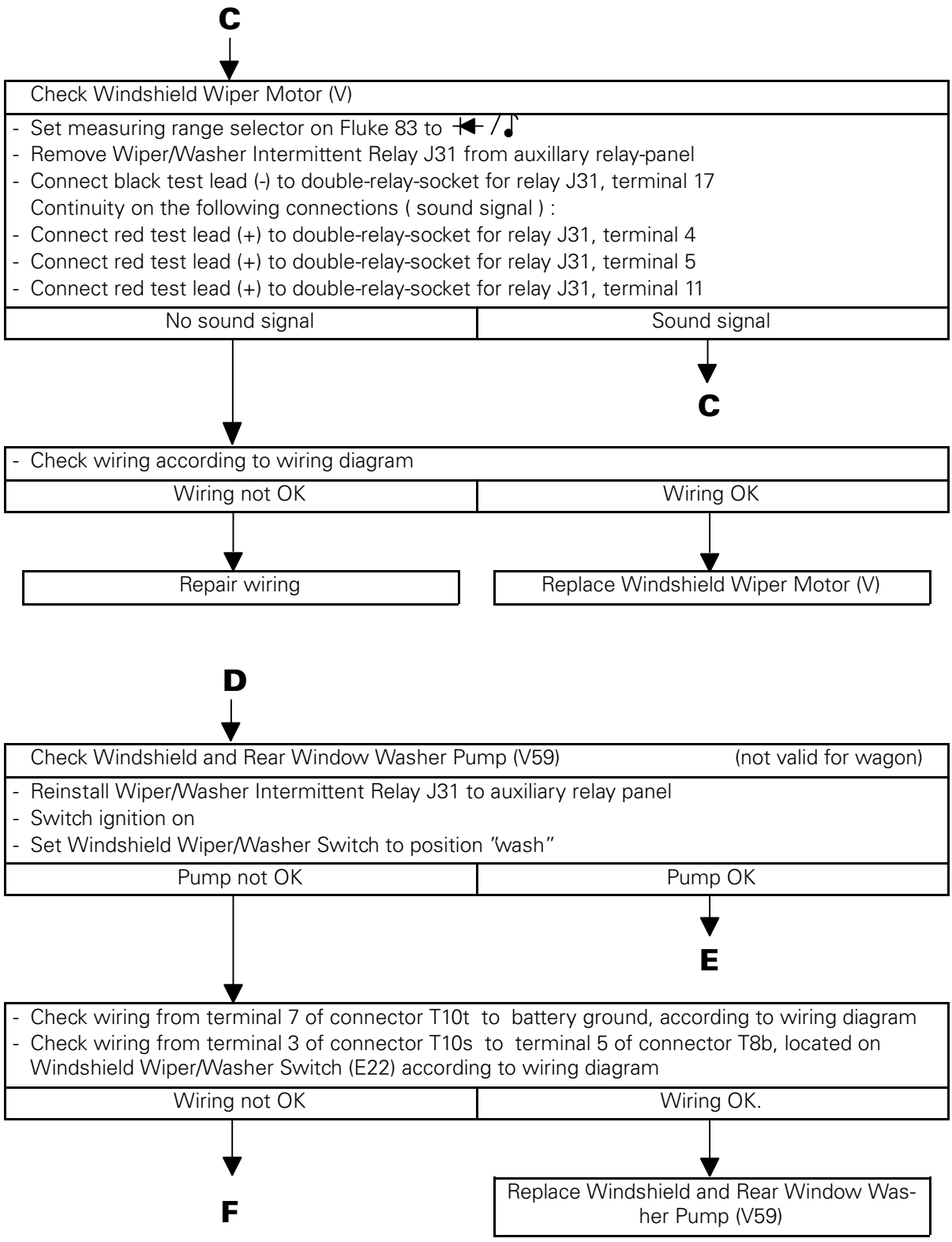
- Remove Wiper/Washer Intermittent Relay J31 from auxillary relay-panel
- Set measuring range selector on Fluke 83 to 20 V
- Connect red test lead (+) to double-relay-socket for relay J31, terminal 13
- Switch ignition on

Reading approx. 0 Volt	Reading approx. battery voltage

C

- Check and repair wiring from terminal 2 of double-relay-socket for relay J31 to terminal 6 of connector T8b, located on Windshield Wiper/Washer Switch, according to wiring diagram

Wiring not OK	Wiring ok
Repair wiring	Replace Windshield Wiper Motor (V)



F

- Set measuring range selector on Fluke 83 to ⊣◀ /♪
- Connect red test lead (+) to connection of Windshield and Rear Window Washer Pump, terminal 2
- Connect black testlead (-) to battery ground, using Connector Test Kit VW 1594

Sound signal	No sound signal
Check wiring from terminal 1 of the Windshield and Rear Window Washer Pump to Windshield Wiper/Washer Switch (E22) according to wiring diagram	Check wiring from terminal 2 of the Windshield and Rear Window Washer Pump to battery-ground according to wiring diagram

E

Check intermittent wiper function:

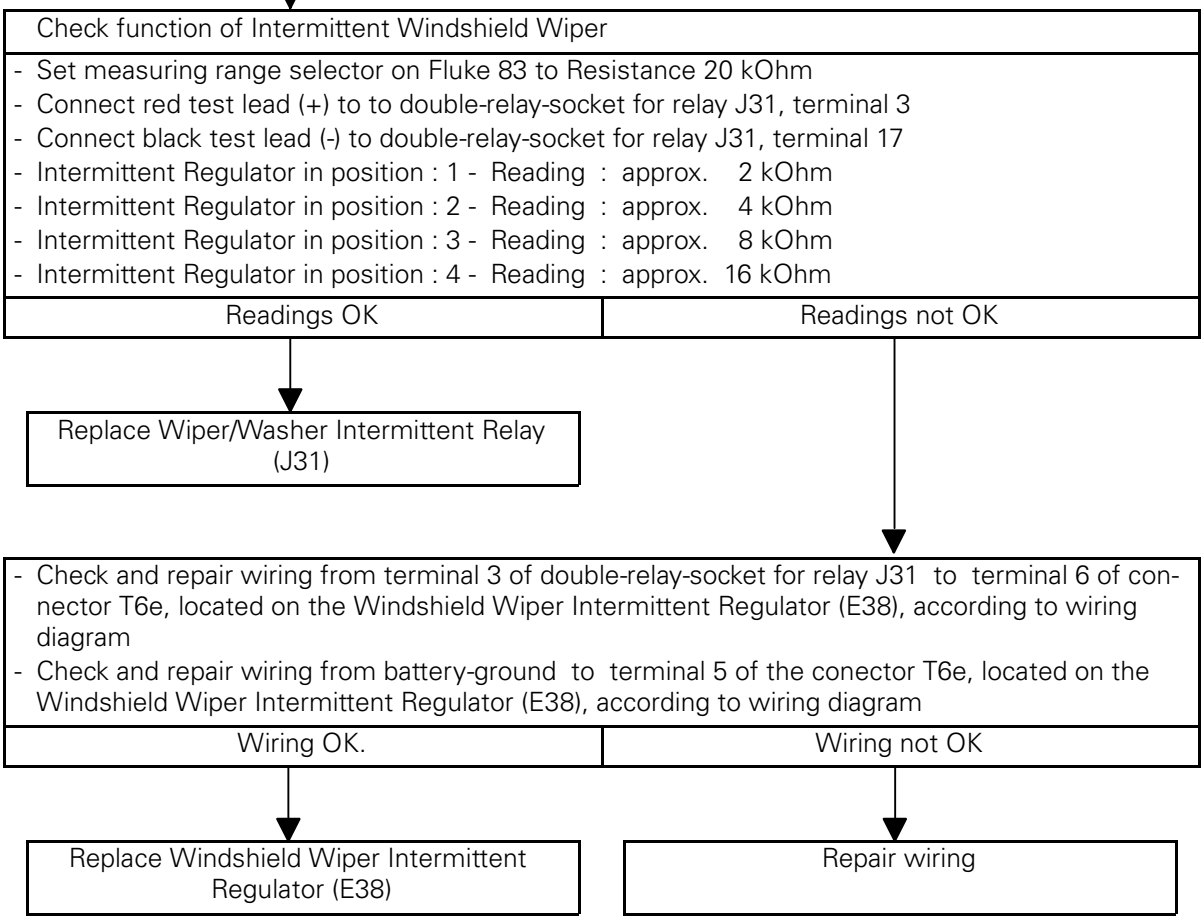
- Reinstall Wiper/Washer Intermittent Relay J31 to auxiliary relay panel
- Connect red test lead (+) to double-relay-socket for relay J31, terminal 12
- Connect black test lead (-) to double-relay-socket for relay J31, terminal 17
- Set Windshield Wiper/Washer Switch to position "Intermittent"

Reading approx. 0 Volt	Reading approx. battery voltage
	G

- Check and repair wiring from terminal 12 of double-relay-socket for relay J31 to terminal 7 of connector T8b, located on Windshield Wiper/Washer Switch, according to wiring diagram

Wiring OK	Wiring not OK
G	Repair wiring

G



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