

BMW e28 Interior Light Delay (1 373 975)

(Some cars have a different unit, part # 61 31 1 373 974, which does not have pin TG. This unit delays light turn off if any door is open. It does not rely on the door handle switch.)

This circuit delays turning off the interior light if it is turned on by opening the driver's door.

Lifting the door handle grounds pin TG, charging the capacitor and turning on transistor T2. This pulls up the bases of transistors T1 and T3.

When any door is open, the door jamb switch grounds pin TK.

If the capacitor is charged, all the transistors are on:

- T2 turns on T3 and T1.
- T1 keeps the relay closed after the door is closed and the ground at pin TK is removed. (T1 is grounded through the closed relay switch.)
- T3 keeps the capacitor charged as long as any door is open.

If the capacitor is discharged, T2 turns off, which turns off T1, and T3 if it wasn't already off. When T1 turns off, the relay opens, and the light turns off.

Turning on the ignition pulls pin 15 high, discharging the capacitor and turning off all the transistors.

