

1H0820045D Product Manual

A/C Heater Control Panel / Climate Control Switch Unit

1H0820045D is a Volkswagen OEM manual climate control panel for heating and air-conditioning systems. It integrates fan speed, temperature, and mode selection into a single unit.

--

1. Basic Information

- **OEM Part Number:** 1H0820045D
- **Common Names:**
 - A/C Heater Control Panel
 - Climate Control Switch Unit
 - HVAC Control Head
- **Interchange Part Numbers:** 1H0820045, 1H0820045A, 1H0820045B, 1H0820045C
- **Type:** Manual climate control (3- knob design)
- **Function:** Controls fan speed, temperature, and airflow mode
- **Application:** Volkswagen & Seat vehicles (1990s–2000s)

--

2. Compatible Vehicles (Partial List)

- **Volkswagen Golf Mk3 (1991–1999):** All trims
- **Volkswagen Jetta Mk3 / Vento (1992–1999):** All trims
- **Volkswagen Cabrio (1995–2002):** 2.0L
- **Volkswagen EuroVan / Multivan (1991–2003):** Early models
- **Seat Ibiza Mk2 (1993–1999), Arosa (1997–2004)**

--

3. Operating Principle

- **Fan Speed Knob:** Selects 4–5 fan speeds (Off → 1 → 2 → 3 → 4).
- **Temperature Knob:** Adjusts blend door position for hot/cold air mixing.
- **Mode Knob:** Selects airflow direction (Vent, Floor, Defrost, Mix).
- **A/C Button:** Activates compressor for cooling; indicator light shows status.

--

4. Installation Guide

Location

Mounted in the **dashboard center console**, below the radio.

Steps

1. Disconnect the **negative battery terminal**.
2. Pry off the dashboard trim panel (use plastic tools to avoid scratches).
3. Remove mounting screws (usually 2–4) holding the control unit.
4. Unplug electrical connectors (label for reassembly).
5. Install new 1H0820045D; reconnect connectors and screws.
6. Reinstall trim panel and battery.
7. Test all functions (fan, temp, mode, A/C).

Cautions

- Use plastic pry tools to prevent dashboard damage.
- Ensure connectors are fully seated to avoid electrical faults.
- Verify all knobs move smoothly before final assembly.

5. Fault Symptoms & Diagnosis

Common Symptoms

- Fan only works on high speed
- Temperature control stuck (hot/cold only)
- Mode selection not changing airflow
- A/C button not lighting or activating
- No response from any control
- Blown HVAC fuses

Quick Tests

1. **Fuse Check:** Inspect HVAC fuse (usually 10–15A) in the dashboard fuse box.
2. **Electrical Test:** Check for 12V at the control unit connector with key on.
3. **Knob Function:** Manually move knobs—binding = internal mechanical failure.
4. **A/C Activation:** Press A/C button; listen for compressor clutch engagement.

Common DTCs (if equipped with OBD- II)

- B1081: HVAC control unit communication fault
 - B1082: Fan speed control circuit malfunction
 - B1083: Temperature blend door actuator fault
-
-

6. Maintenance & Replacement

- **Inspect:** When HVAC controls fail or act erratically.
 - **Replace When:** Knobs bind, no power, A/C non- functional, or persistent faults.
 - **Recommendation:** Use OEM or high- quality aftermarket units for reliable fit and function.
-
-

7. Safety Notes

- Disconnect battery before service to avoid short circuits.
- Allow dashboard components to cool if recently used.
- Test all HVAC functions thoroughly after installation.

