

The schematic diagram illustrates a relay control circuit for a power jack. The circuit is powered by a 12VDC input (J1) and a 12VDC output (J2). The relay (K1) is controlled by a 12VDC input and a 12VDC output. The relay switch (Q1) is controlled by a 12VDC input and a 12VDC output. The circuit includes various passive components (resistors R1, R2, capacitors C1, C2, diodes D1, D2, D3) and a 12VDC input (J1).

Components and Connections:

- 12VDC Input (J1):** Connected to the relay coil (K1) and the relay switch (Q1).
- 12VDC Output (J2):** Connected to the relay coil (K1) and the relay switch (Q1).
- Relay (K1):** A 12VDC relay with 12 pins. Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12 are shown.
- Relay Switch (Q1):** A 12VDC relay switch with 1 pin (G) and 1 pin (S).
- Passive Components:**
 - Resistors: R1 (10M), R2 (1K).
 - Capacitors: C1 (1UF), C2 (1UF).
 - Diodes: D1 (1N5245, 15V), D2 (1N4001), D3 (1N4001).

Connections:

- The 12VDC input (J1) is connected to the relay coil (K1) and the relay switch (Q1).
- The 12VDC output (J2) is connected to the relay coil (K1) and the relay switch (Q1).
- The relay switch (Q1) is connected to the relay coil (K1) and the relay switch (Q1).
- The relay switch (Q1) is connected to the relay coil (K1) and the relay switch (Q1).