

CDR-24 Back Panel Pinout

Connector A (Power and System Control Signals)

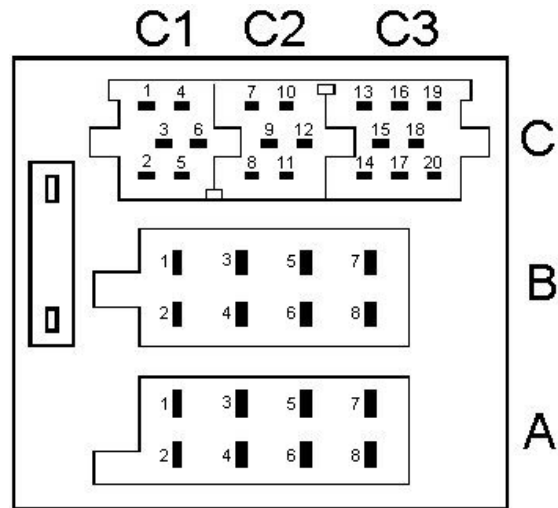
A1 – Speed dependent Volume Control Input¹
A2 – +12V Switched Output^{1,3}
A3 – Telephone Mute Input^{2,4,5}
A4 – +12V Battery Power Input
A5 – +12V Switched Output (control output to power antenna)³
A6 – Illumination Input⁴
A7 – +12V Switched Input⁴
A8 – Ground

Connector B (Speaker Output)

B1 – Right Rear +¹⁰
B2 – Right Rear –¹⁰
B3 – Right Front +¹⁰
B4 – Right Front –¹⁰
B5 – Left Front +¹⁰
B6 – Left Front –¹⁰
B7 – Left Rear +¹⁰
B8 – Left Rear –¹⁰

Connector C (Auxiliary Control Signals)¹¹

C1 – CAN Bus High
C2 – CAN Bus Low
C4 – Wake up Signal^{5,6}
C7 – Telephone Audio Line In +^{4,8}
C8 – Telephone Microphone In +^{4,5,9}
C9 – Telephone Microphone In –^{4,5,9}
C12 – Telephone Audio Line In –^{4,8}
C20 – On/Off Input⁷



Notes:

- 1 – For use with ASK Amplifier (not connected in Bose Configuration).
- 2 – Internally pulled up to +5V, mute is accomplished by connecting pin to ground.
- 3 – Delayed off. Once asserted, the signal remains asserted until a few minutes (about 5 minutes) after you remove the key (“Standby” state). Signal “on” is triggered by C20. Signal “off” is triggered by C20 plus the delay period.
- 4 – Not normally connected in either Bose or non-Bose configurations.
- 5 – Connected to the optional Porsche Telephone Module.
- 6 – Wake up functions as a multi-drop signal line. When CDR-24 is in the “On” state or the “Standby” state, it outputs a +10.4V level (probably via a pull up resistor to 12V). The other end of the line is being driven by a source which is pulsing the line once every 5 seconds. The pulse is a 10.4V level that lasts for about 5 seconds, followed by a short “off” pulse (0V) lasting for less than 500 mS. When the CDR-24 is in the “Off” state, the signal line is pulled up to a constant level of greater than 10.85V by both ends of the line. The CDR-24 has never been observed to drive or pulse this signal line. The entertainment system will function without this connection.
- 7 – On/Off Input is the signal that is responsible for turning the CDR-24 on and off. The signal is a 10 second pulse at 10.5V, returning to 0V. No distinction is made between the “On” and “Off” pulses. A pulse is generated whenever the key is inserted or removed from the ignition. This signal should not be confused with a +12V ignition switched voltage.
- 8 – C7 and C12 present a 480 ohm impedance input for connecting Telephone Audio In. C12 is not chassis ground, but rather the signal ground for this pair. This signal can be directed through the CDR-24 to the MOST bus (or the speaker outputs on the B connector) and then to the speakers depending on the USER settings configured by the radio’s MENU button. You can setup 3 independent users/drivers (see the Porsche CDR-24 User Manual) for the vehicle using the MENU button. The audio parameters of the system, along with the steering configuration (left hand / right hand), CDR-24 front panel LED operation, stereo output mode and behavior of the telephone mute signal can be programmed and saved on a per user basis. The behavior of the telephone mute signal is of most interest. If the USER setting is programmed for “Phone Mute”, then assertion of the telephone mute signal (A3) or pushing the TP button on the radio will simply mute the radio output. If however the USER setting is programmed for “Audio Phone”, then assertion of the telephone mute signal (A3) or pushing the TP button on the radio will cause the differential signal on the C7 / C12 pair to be amplified and passed on to the MOST bus and will be heard through the attached speakers. The USER setting for steering configuration will determine which speakers are used for output of the telephone in signal. Setting DRIVER L, will cause the right hand speakers to be used for telephone output. Setting DRIVER R, will cause the left hand speakers to be used for telephone output.
- 9 – C8 and C9 present a high impedance input for connecting a microphone to the CDR-24. This input is used by the optional Porsche Telephone Module upgrade. Audio from this pair is never sent to the Bose Amplifier over the MOST bus. Audio from this pair is sent to the optional Porsche Telephone Module over the MOST bus even on non-Bose systems.
- 10 – Not normally connected in Bose configurations.
- 11 – C3, C5, C6, C10, C11, C13, C14, C15, C16, C17, C18, C19 have no apparent function.