

DOCKBMWV2



Purpose...

The DOCKBMWV2 Docking cable (along with the SDS1V2 Docking Station - sold separately), allows you to input the audio from not one, but two audio sources into the factory BMW audio systems shown below. The DOCKBMWV2 comes complete with a remote control cable with a selector switch that allows the user to easily change from CD changer, to Input A, to Input B and back again.

Features...

Advanced full-bandwidth circuit design, complete DC isolation, high quality small signal relays and factory-match connectors for an easy, reliable, great sounding installation.

Applications

BMW

- 1996-2006 3-Series Coupe/Conv. including Z and M-Series (excluding 1996 318ti)
- 1996-2004 3-Series Sedan including M-Series (excluding 1996 318ti)
- 1997-2003 5-Series (excluding 5-Series with "DSP" system)
- 2000-2004 X5 (excluding 5-Series with "DSP" system)
- 8/98-2001 7-Series (excluding 7-Series with "DSP" system)

Mini

- 2002-2005 Mini Cooper

Land Rover

- 2000 and newer (Must have 3 and 6-pin CD changer connectors shown at right)



Application Note:

The vehicle **must** be equipped with a direct-connected CD changer (not FM modulated) in order to use the DOCKBMWV2 and SDS1V2. If you do not have a CD changer, our Auxiliary Input Interfaces may be your answer. Check out the SoundGate Resource Guide for more information.

SoundGate is developing and releasing new Docking Station harnesses all the time.

Contact SoundGate Sales at 888-760-4707, or SoundGate Technical Support at 307-674-4707 for our latest releases

www.soundgate.com

Installation Instructions

Preliminary:

- A. Turn the ignition key of the car to the "Off" position.
- B. Make sure the car's factory radio is turned to the "Off" position.
- C. Eject the magazine from the factory CD changer.

Step 1

Gain access to the interfacing location for your DOCKBMWV2

- A. You will be connecting the SoundGate Docking Station at the factory CD changer location. Gain access to this location.

Step 2

Disconnect CD changer cable from changer

- A. Disconnect the 6-pin connector from the CD changer.

Step 3

Connect DOCKBMWV2 to factory CD changer and factory CD changer harness

- A. Connect the 6-pin male connector on the DOCKBMWV2 harness (Figure 1 below) to the factory CD changer.
- B. Plug the factory 6-pin male connector into the female connector on the DOCKBMWV2 harness (Figure 1 below).

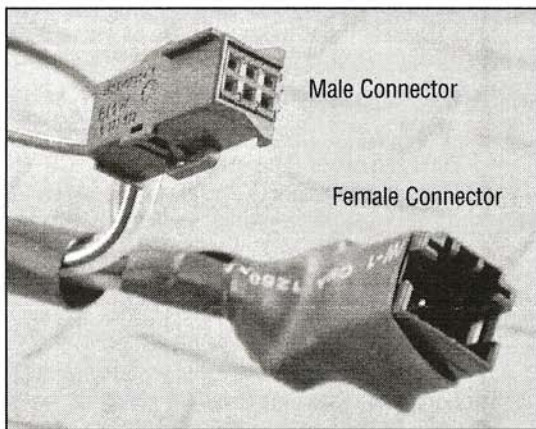


Figure 1

Step 4

Connect the red pigtail on the DOCKBMWV2 harness.

- A. Install a 2 Amp fuseholder in the red pigtail on the DOCKBMWV2 harness, and connect to a +12 Volt switched source (ignition). We recommend soldering rather than using crimp-style or "Scotch-locks". Insulate all connections properly (tape or shrink tubing) to prevent damage to components or systems.

Step**5****Connect the DOCKBMWV2 to the SDS1V2**

- A. Plug the white 12-pin male connector from the DOCKBMWV2 into the SDS1V2.

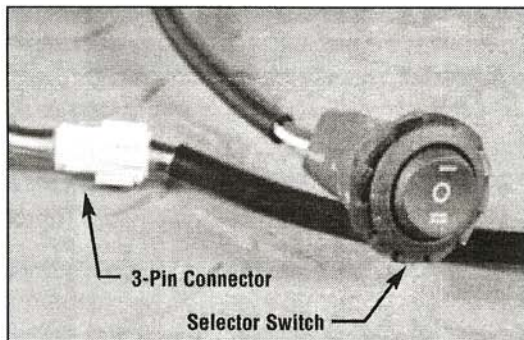
**Figure 2****Step****6****Securely mount the SDS1V2**

- A. Mount the SDS1V2 securely. This can be done in several ways including double-stick tape and wire ties. If using wire ties, make certain you do not put undue pressure on the RCA's or the 12-pin connector going into the SDS1V2.

Step**7****Find a convenient location for the selector switch**

- A. Find a convenient location to mount the selector switch. If you do not wish to drill mounting holes in the dashboard or trim, you can fabricate a small mounting plate.
- B. Route the switch harness to the desired location. Unplug the white connector located approximately 18 inches from the switch for easier installation.
- C. Mount the selector switch.

Note: In some instances, the protective shrink tubing may need to be trimmed for removal and re-installation of the mounting nut.

**Figure 3**

Installation Instructions...

Step *Install and connect the new audio sources.*

8

A. Install the new audio source component(s) and accessories per the manufacturers instructions.

- B.** Route the RCA audio cables from the new component(s) to the SDS1V2 and connect. If you are only using one pair of inputs on the SDS1V2, we recommend putting electrical tape over the unused pair of RCA inputs to prevent unintentional grounding.

Step *Test for correct operation.*

9

A. Reinsert the magazine into the CD changer (wait for 10 to 15 seconds for the CD changer to initialize), then turn on the key, and the radio.

- B.** Press the CD button on the radio and wait for the CD changer to begin play.

Note: *The CD changer must be active (running) to listen to Input A or Input B.*

- C.** Activate your auxiliary audio source. Press the SDS1V2 selector switch to the left or right to select "Input A" and "Input B" The audio from source "A" will begin to play over the vehicle audio system when "Input A" is active. Adjust the gain on your auxiliary source to match the level on the CD changer.
- D.** If you have connected a source to "Input B," move the SDS1V2 selector switch to the other position. The audio from source "B" should begin to play over the vehicle audio system when "Input B" is active.

Notes:

- 1. With some auxiliary audio sources you may not be able to match the volume level of the factory CD changer, even with the gain on the auxiliary component at maximum. You may also experience audible noise with the gain on the auxiliary unit at or near maximum. This is an indication that the output signal from your auxiliary source is not strong enough. Installation of a high-quality line driver will be required in these instances. The SoundGate VIDAOC1 is a high performance 4-channel line driver you can be used to boost the signal coming out of your auxiliary audio components.*
- 2. Control of the components connected to Input A and B is per manufacturers directions and via the individual component's controls. The SDS1V2 remote selector switch is only for switching between sources.*

Step *Installation is complete.*

10

A. Reinstall the factory radio and any trimpanels removed during installation.

B. Make certain that all cables are tucked out of the way and that no undue stress is placed on any connection.



Perform these steps first...

Step 1**Factory BMW audio wiring**

There are 3 different audio wiring configurations for the CD changer on BMW vehicles. Examine the factory male 6-pin (illustrated at right) and count the number of wires.



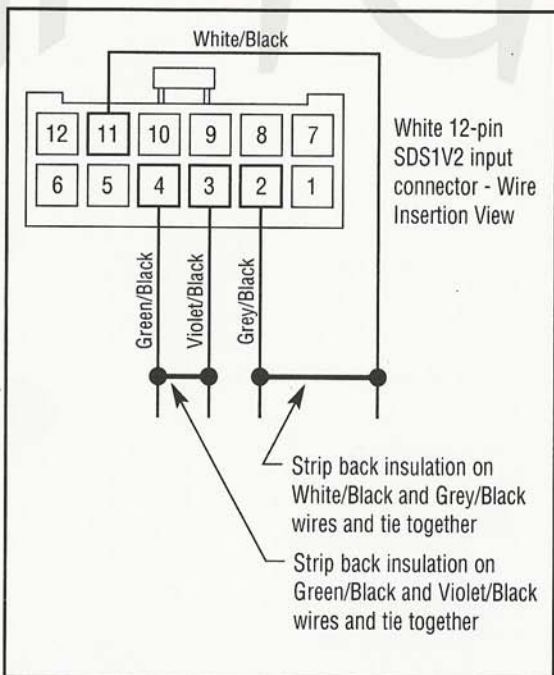
BMW 6-pin Male Connector Insertion View

Step 2a**5 wires in factory 6-pin male connector**

If there are 5 wires in the male 6-pin factory connector (4 insulated plus a bare shield drain wire), no modifications to the DOCKBMWV2 harness will be necessary. Continue with installation as indicated in main instructions.

Step 2b**3 wires in factory 6-pin male connector**

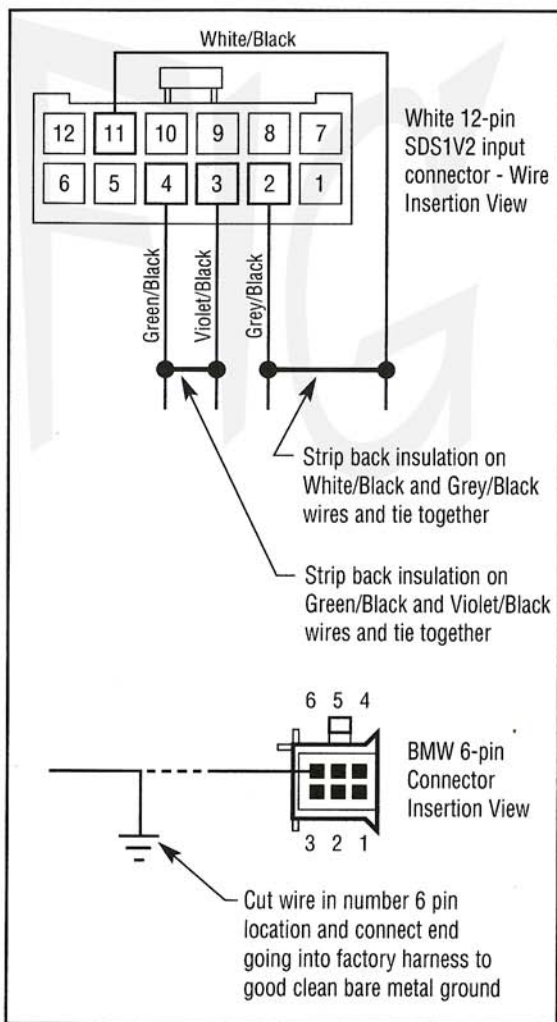
If there are 3 wires in the male 6-pin factory connector, you will need to modify the DOCKBMWV2 harness as show in the diagram at right.



Continued on reverse

**Step
2c****4 wires in factory 6-pin
male connector**

If there are 4 wires in the male 6-pin factory connector, you will need to modify the DOCKBMWV2 harness as show in the diagram at right.



www.soundgate.com