

Project: Installation of the Dension Gateway 500 for Mercedes Benz C320 2001 with D2B systems (without COMAND).

Status: In Progress

Summary

5/18/2007

A couple of years back, the CD Changer – Model MC3010 stopped working. Reluctant to purchase a new one for many reasons (reportedly if will fail sooner or later; cost: between \$600 to \$800 at the dealer, around \$240 on ebay; limitations: plays only CDs, no MP3s) I decided to look for alternatives, and the Dension Gateway 500 (GW500) seemed the way to go. However, the installation has not gone as smooth as I expected.

This document details the efforts I am taking to make it work, which I am not sure if I will be able to accomplish at all. By reporting my findings, hopefully other readers will know what to expect if starting similar projects, or, other readers who already experienced similar situations can contribute with tips and information.

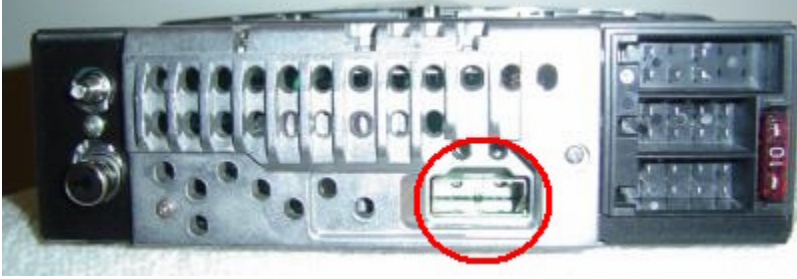
To reiterate, the C320 came with the OEM radio and OEM CD Changer already installed and working. The model and part numbers are as follows:

| | OEM Model # | OEM Part # |
|------------|-------------|-----------------|
| Radio | CM 1010 | A 203 820 10 86 |
| CD Changer | MC 3010 | A 203 820 90 89 |

Front of Radio **CM 1010** showing the CD button (upper left) that will be used to access the GW500:



Back of radio **CM 1010** showing the Mercedes Benz Female Optical Connector:



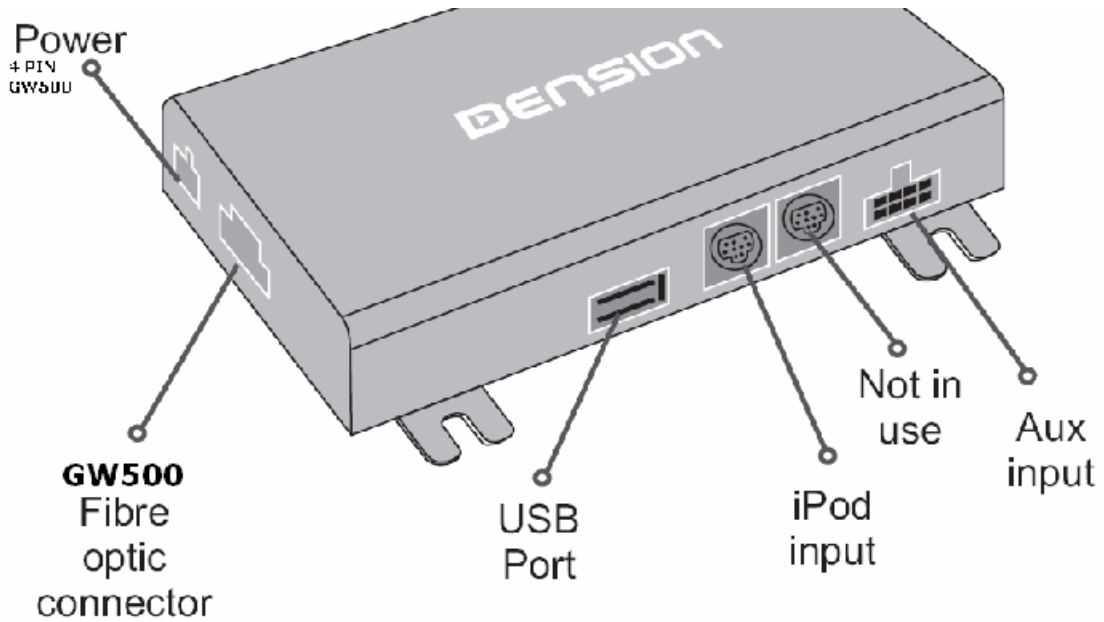
Front of CD Changer MC3010:



Back of CD Changer MC3010 showing the MB Female Optical Connector and the 3PIN power supply:



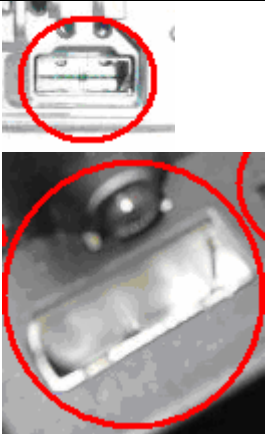
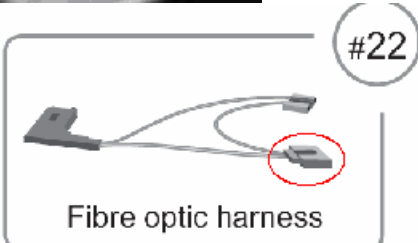
Dension Gateway 500:


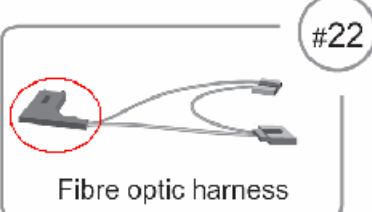

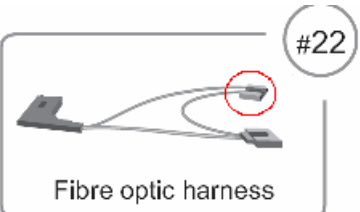
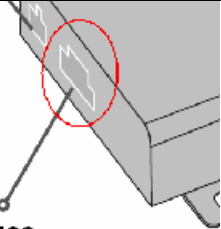



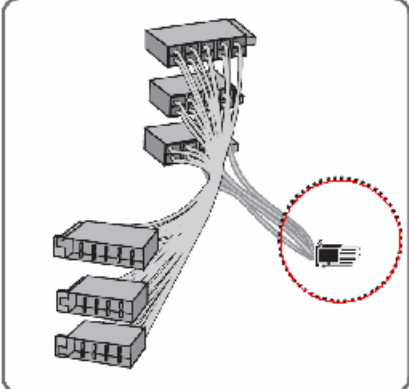
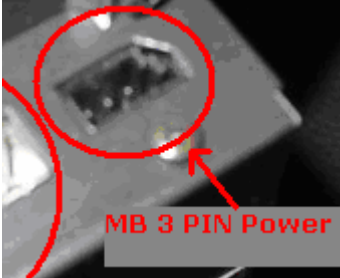
Before continuing, please read the installation instruction for the Dension Gateway 500 for Mercedes Benz with D2B systems. It can be found at www.dension.com.

Optical Connectors

Let's summarize the different optical connections found on the radio, CD Changer and GW500.

| | Picture | Description |
|--|--|--|
| Mercedes Benz Female Optical Connector |   <p>Fibre optic harness</p> | <p>Found on the back of the Radio and back of CD Changer.</p> <p>Also, part of GW500 Harness #22.</p> |

| | | |
|--|---|--|
| <p>Mercedes Benz Male Optical Connector</p> |   <p>Fibre optic harness</p> | <p>Used to connect D2B to back of Radio and back of CD Changer.</p> <p>Found also on GW500 Harness #22.</p> |
| <p>Gateway 500 Male optical Connector</p> |   <p>Fibre optic harness</p> | <p>Found also on GW500 Harness #22.</p> |
| <p>Gateway 500 Female optical Connector</p> |  <p>GW500 Fibre optic connector</p> | <p>Found on GW500 Unit.</p> |
| <p>Gateway 500 Power connector Male / Female</p> | <p>Power</p>  <p>1 PIN GW500</p> | <p>Used to supply power to GW500. Has 4 pins: Red: +12V, Black: GND, Blue: +12 V ignition, Purple: wakeup.</p> |

| | | |
|---|--|--|
| |  | |
| <p>CD Changer Power Connector Male (not Pictured) and Female.</p> |  | <p>Used to supply power to OEM CD Changer. Has 3 pins: Red: +12V, Black: GND, Purple: wakeup</p> |

Current Situation

5/18/2007

I received the GW500 from discountcarstereo.com last Wednesday May 16, 2007. Circuit City tried to install it later that afternoon for \$92.00, however, it was unsuccessful.

After all connections were checked and re-checked, when the CD Player button is pressed on the radio, a message “NO CD CHANGER” is displayed on the radio, and “NO CDC” is displayed on the instrument cluster.

I tried many tips for trying to force the D2B to recognize the GW500, including disconnecting the battery. Everything was reset, but the GW500 was still not recognized.

Other things tried: holding the CD button for > 30 seconds (doesn't do anything).

When I connect the iPod video 80G to the GW500, it is recognized. I can see the Denison screen with the firmware revision: 1.05.

Also, when I connect a USB drive, it is also recognized, since later inspections reveals that a file GW_EES.BIN has been written on the root.

What can be wrong?

There are a few things that can be wrong (please add to the list).

Optical Loop

I believe the optical loop is closed and working, since I can listen to the radio. If I disconnect the CD Changer, then, the loop is open and I cannot listen to the radio. The only possibility here if is the order of components is important, which I believe it is not, as soon as the loop is closed. (can someone verify this).

Dension Gateway 500 unit.

On the ipod and USB hard drive sides, it seems to be fine. The issue seems to be on the D2B loop side. Why is the unit not recognized? I believe it may have to do with the wake up signal. Perhaps the electrical harness is not connected to the correct pin on the back of the radio. On page 2 & 3 of the GW500 installation guide, the purple wakeup cable is on PIN 10, except for one radio which has it on #7. Could it be possible that the CM1010 has the wakeup on different pin #? Can someone verify this?

CD Changer

The CD Changer is broken (the internal flat ribbon cable is severed, if someone has a spared, I would like to buy it). I still have it connected to close the D2B loop. If I disconnect the 3 PIN power, the D2B loop is no longer closed, and I can no longer listen to the Radio nor cassette tape. Is this somehow preventing the GW500 from working?

Next Steps

I already wrote to discountcarstereo.com and to Dension support. I am waiting for their advise. In the meantime, please let me know if you can think of something else I can try.

Other Questions:

- Does anyone know what the difference between harness #21 and harness #22 is? They seem to be the same.

TV.

This document was created with Win2PDF available at <http://www.daneprairie.com>.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.