



Neo interface for iPod

for selected BMW/Mini Cooper vehicles

Installation Guide/User Manual
for Neo PROLINK



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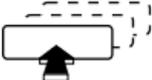
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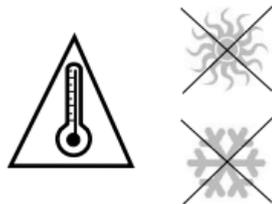
Icon legends

| | |
|--|--------------------------|
|  | Turn jog dial |
|  | Turn jog dial repeatedly |
|  | Press button |
|  | Press button repeatedly |
|  | Scroll |

Warning and safety!

Please read these instructions carefully before proceeding. Failure to follow instructions may result in improper operation or injury. Neither Neo Car Audio Inc. nor Apple Inc., its regional offices, distributors or resellers take any responsibility for any damage or injury as a result of using the integration kit.

- Do not open, disassemble or alter the interface in any way.
- Do not insert anything into the casing.
- Do not cut or try to alter cables in any way and always use the correct connections.
- Only operate unit when stationary or ask passengers to operate it for you.
- Do not allow the Apple iPod to distract you from driving.
- Exercise good judgement and keep your eyes on the road at all times.
- Do not expose unit to extreme temperatures, humidity or shock.
- Keep the unit and iPod away from fluids.
- Keep away from children! - Interface components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a choking hazard when handled by children.



Congratulations on your purchase

Thank you for purchasing the Neo ProLink integration kit for iPod. Please review our user manual and installation guide before operating the unit. This interface was designed and manufactured to seamlessly integrate with your vehicle's factory entertainment system.

Product registration

In order to validate your warranty period and to receive telephone or online support, you **MUST** register your product.

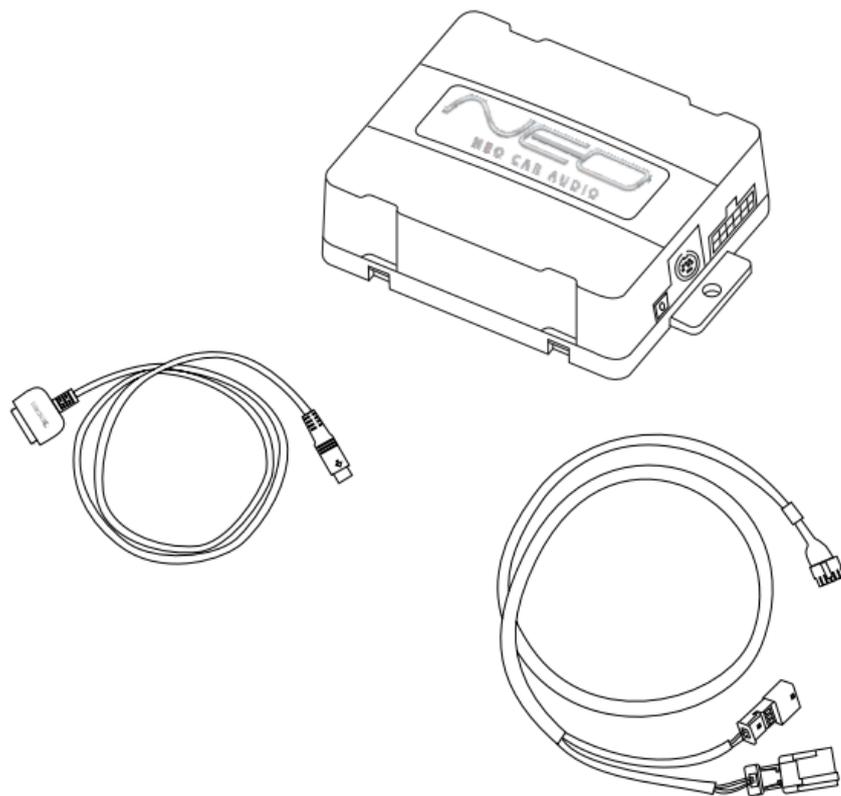
To register your product, please complete the following steps:

1. Visit <http://www.neocaraudio.com>
2. Complete the product registration form.
3. Submit the form.
4. Save the registration/support/warranty sheet in a safe place for future reference.

If you are unable to complete the registration via Internet, Please call Neo Car Audio Inc. at 619-704-0699

Integration kit contents

- 1 Vehicle specific interface unit
- 1 Vehicle specific harness
- 1 iPod docking cable
- 1 User manual



Supported iPod models and firmware version requirements

FW:1.0.3



iPod classic
80GB 120GB 160GB

FW:1.2.1



iPod
5th generation (video)
30GB 60GB 80GB

FW:2.2.1



iPod touch
1st & 2nd generation
8GB 16GB 32GB

FW:1.3.1



iPod nano
1st generation
1GB 2GB 4GB

FW:1.1.3



iPod nano
2nd generation (aluminum)
2GB 4GB 8GB

FW:1.0.3



iPod nano
3th generation (video)
4GB 8GB

FW:1.0.3

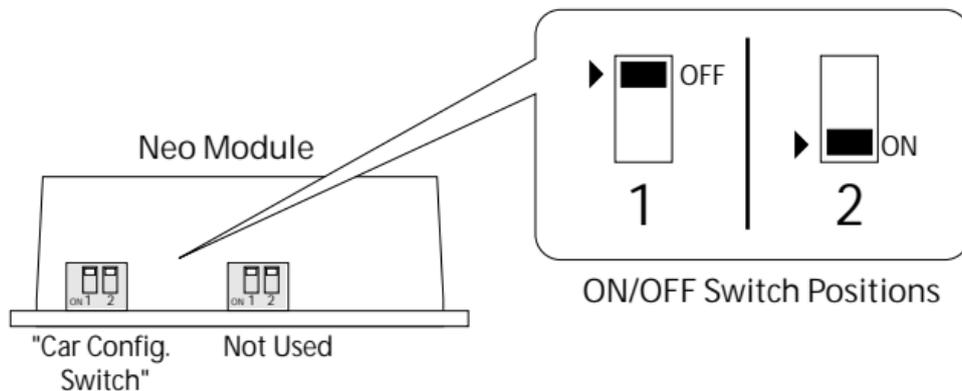


iPod nano
4th generation (video)
8GB 16GB

For the latest firmware versions and models not listed, please contact your authorized dealer or Neo Car Audio Inc.

Dip switches

The configuration switches located on the Neo module are used to set the operation of the interface by the installer. Incorrect dip switch settings may cause the Neo interface not to work properly or not to operate at all. Disconnect the vehicle harness from module and cycle ignition off for 50 seconds after changing the switches!



Dip switch settings

| Car configuration switches | | | |
|--|--------------|--|--------------|
| Selected emulation | | | |
| CD changer 1 | | CD changer 2 | |
| Dip switch 1 | Dip switch 2 | Dip switch 1 | Dip switch 2 |
| OFF | OFF | ON | OFF |
| <p>Recommended for <u>late model Business CD and Navigation radio systems.</u></p> | | <p>This setting is to be used on <u>early model Business CD and Business cassette head units.</u> This mode provides slower text refreshing to allow flawless operation of these radios. Note: The 1st button press only clears the Text from the radio, the 2nd executes the command.</p> | |



Default



Installation

Installation should only be performed by a qualified professional. Beware of sharp edges to avoid injury and exercise caution when removing trims as they may break. The module should be placed at an accessible location to allow AUX cable to be connected, such as in the glove box, the center consoles, under the front seat or in the trunk.

- 1 Pull vehicle into service bay.
- 2 Open trunk and access trunk area.
- 3 Disconnect both battery terminals. These cables must be disconnected during installation to ensure proper initialization of the Neo module when it is connected.
- 4 CD changer cable will be on left hand side on most models (in trunk).
Some models are different:
X3 CD Changer cable is located underneath carpeting under the center console.
Z4 CD Changer interface is located between seats, underneath subwoofer.
Mini Cooper/Cooper S CD Changer interface is located on right hand side of vehicle (trunk area).
- 5 Remove carpet and side cover to gain access to CD Changer BUS harness. If CD Changer is present, it will need to be disconnected and/or removed.



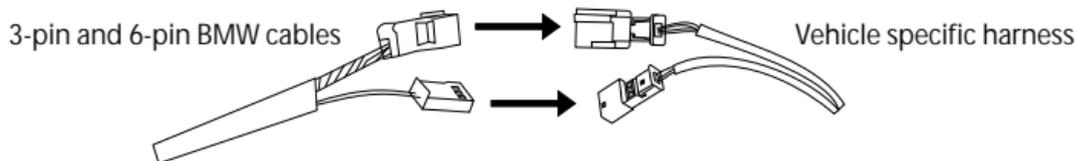
During installation, make sure that the 3 pin connector from the vehicle does not have a brown wire in the middle. The 3 pin connector of the phone pre-wiring is identical looking to the 3 pin connector of the CD changer pre-wiring! Do not use the 3pin connector that has a brown wire in the middle, but locate the one that has the brown wire on the side! Incorrect connection will result in permanent damage to the unit and will not be covered by warranty!

- 6 Locate both the 3-pin & 6-pin connectors in the trunk area. If the CD Changer is present, disconnect the cables and set aside. If no CD Changer is present, the cables will be bundled and tucked away in the rear trunk area.

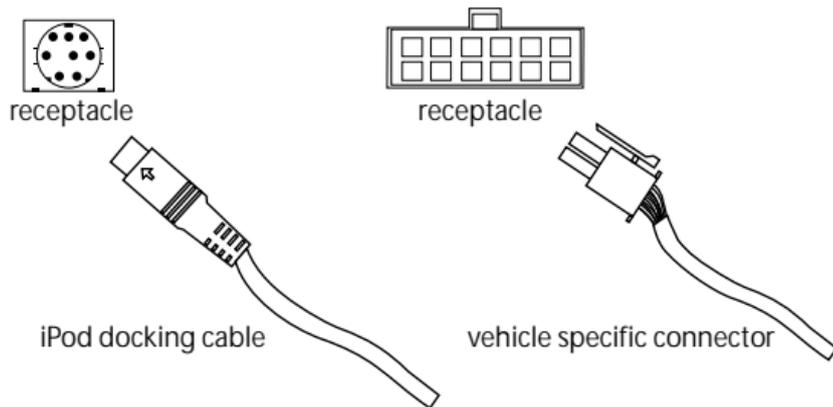
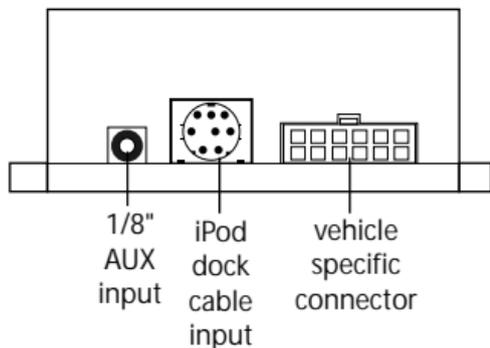


Some vehicles will have the CD Changer wiring in a protective sheath which may make it more difficult to locate. Cars sold outside the USA may not be pre-wired for trunk install.

- 7 Connect both 3-pin and 6-pin cables to the BMW specific harness.



- 8 Fold down rear seats (if applicable) and route the 5m extension cable to the rear seat bottom cushion.
- 9 Remove bottom seat cushion by lifting up and route wiring underneath.
- 10 Route the remainder of the interface cable in the best possible location (e.g. under the door sill or under the drivers seat).
- 11 Connect the vehicle specific connector and the iPod docking cable to the module. Apply cable ties to secure the cables.



DSP integration

If your vehicle has Digital Signal Processing (DSP), the purchase of a Neo DSP kit may be necessary.

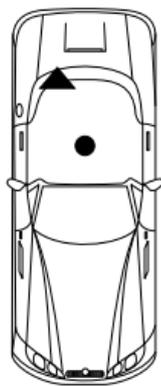
To see if your vehicle has DSP look for a bare metal coax cable and a 3-pin connector. If you don't find a coax cable and find a 6-pin connector along with a 3-pin connector, your vehicle doesn't need this DSP kit.

Connector location

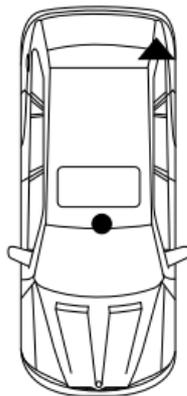
| | |
|-----------------|---|
| 3-pin connector | ● |
| DSP amplifier | ▲ |



BMW 5 series and X5



BMW Z4



BMW X3

iPod audio source

Text display settings

Make sure to select the appropriate text display setting during the initial setup of the Neo kit. To configure text display on BMW radios, press DISC 6 then select a Track number that corresponds to the designated display:

| Track # | Text Displayed On | Application | Characters |
|---------|------------------------|--|------------|
| 99 | No Text | All | ---- |
| 01 | Radio | 3-Series/Z3/Z4/X3/'04-K1200 | 12 |
| 02 | Navigation | All with nav. | 15 |
| 03 | Cluster/OBD | 5-Series/7-Series/X5 w/o nav. | 20 |
| 04 | MID | alternate for 5-Series/7-Series/X5 | 11 |
| 05 | Alternate Location | All with nav. | 8 |
| 06 | Alt Locat.(large font) | All with nav. | 8 |
| 07 | Resume Text | Use if text does not resume after phone call | ---- |
| 08 | Motorcycle | 05+ K1200 | 12 |
| 09 | No Text | All | ---- |

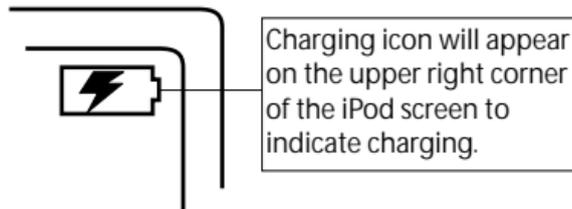
iPod hierarchy

By default, the interface creates a Playlist having a name that is the same as the name of the iPod. This Playlist is the very first on the list of Playlists shown while browsing in Playlist mode. This Playlist contains all the songs on the iPod. Once another Playlist is active an Artist may be selected within that Playlist using the Artist Mode. Albums by the selected Artist and within the selected Playlist may be selected in Album Mode. "ALL ARTIST" and "ALL ALBUM" designate all available content in those categories.



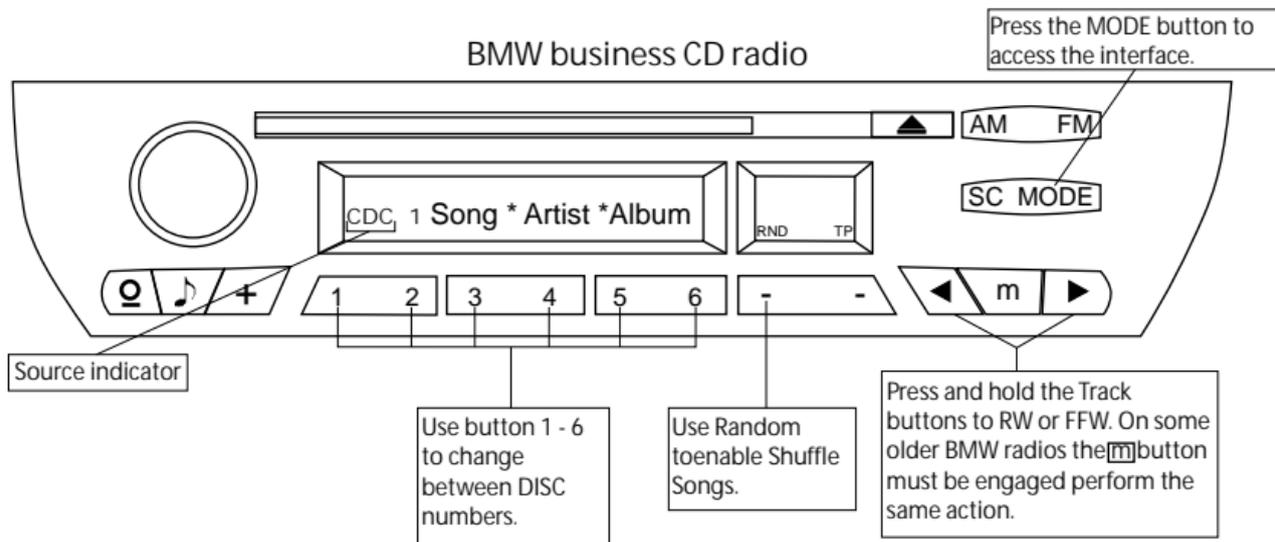
Charging

The interface automatically charges the battery of the iPod when connected and the key is in the ACC/ON position.

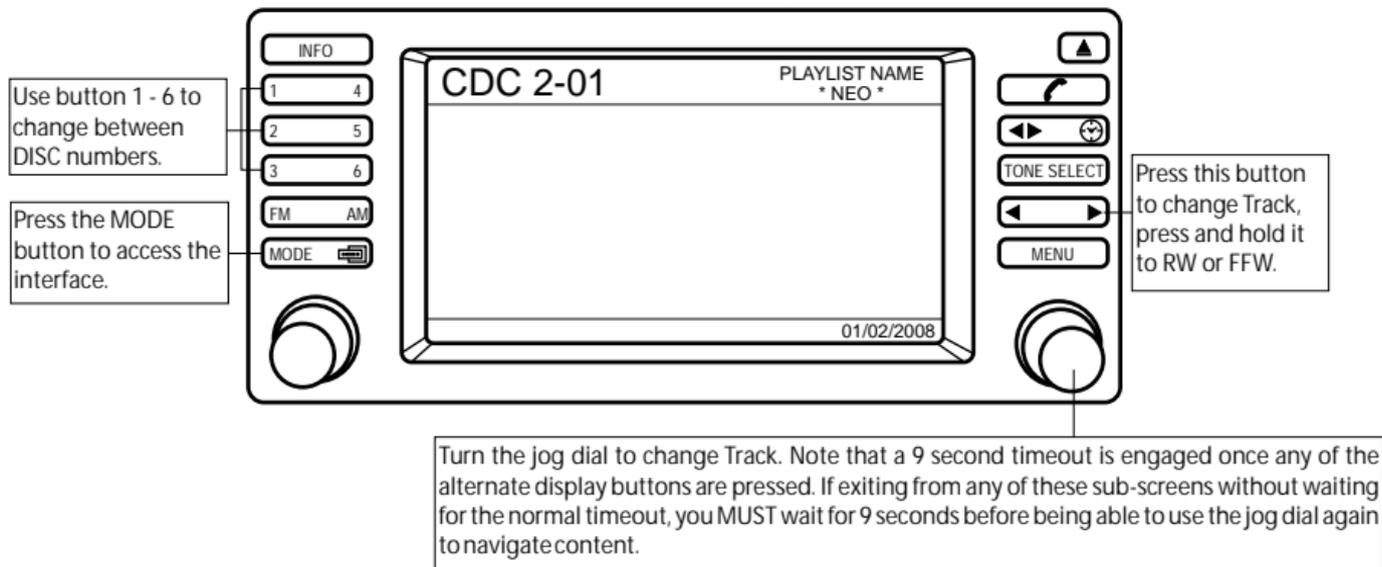


Operating the interface

Press the MODE button to access the Neo interface for iPod and its features. Pressing this button repeatedly will cycle through sources present in your vehicle. When the iPod audio source is active (DISC 5, Track 1), use the Track button to select next/previous Song.

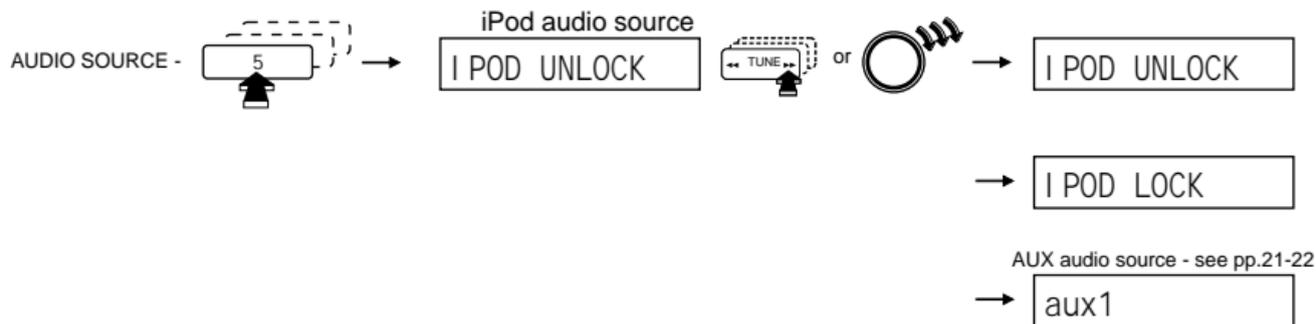


BMW radio with Navigation



How Neo ProLink works:

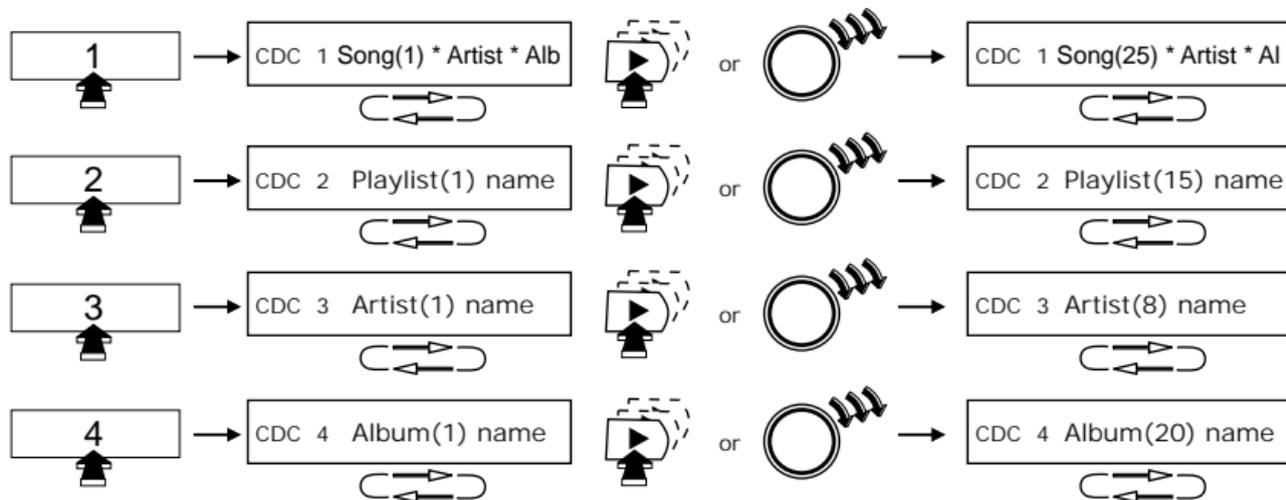
The NEO ProLink now allow software switching of the iPod interface mode. The mode can be switch by selecting preset 5. In preset 5 the user will be able to select iPod Unlock, iPod Lock, and AUX1. By pressing the track up or down the user will be able to cycle through the choices. Once the selection has been made and iPod is connected, the mode will change after 3 seconds.



Note: When the connected iPod does not support the unlock mode, the module will change the mode to lock mode automatically.

Neo Prolink browsing function - in LOCK mode

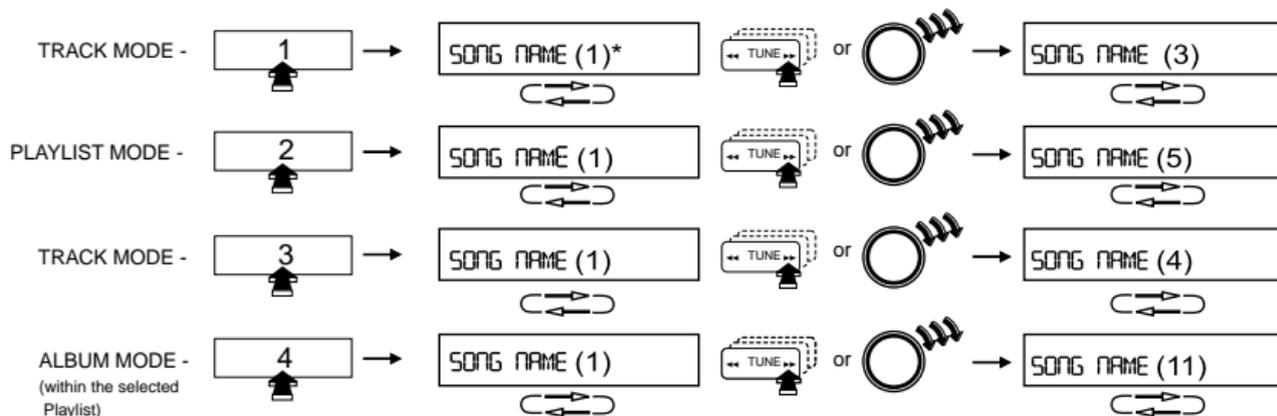
The Neo Prolink integration kit features content browsing. After connecting the iPod, select the desired browsing mode by pressing the appropriate DISC button. Press or turn the Track button repeatedly to browse contents; 1 second after releasing the button, your selection is executed.



In DISC 5, you can select the audio source (iPod/AUX1), in DISC 6, you can set Text display and view firmware version information.

Neo Prolink browsing function - in UNLOCK mode

The Neo Prolink integration kit features browsing. After connecting the iPod, select the desired mode by pressing Presets 1-6. To change Track press or turn the Tune button repeatedly; 1 second after releasing the button, your selection is executed. The radio will only display song titles.

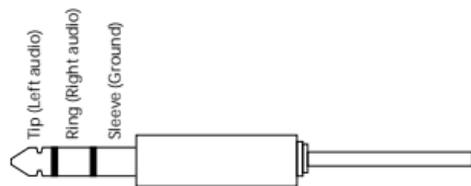
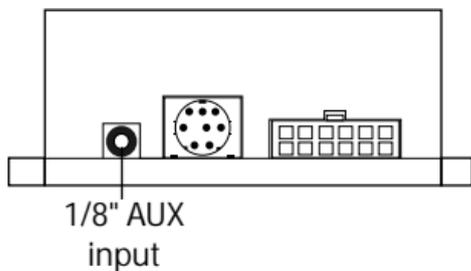


*Numbers indicate sequence.

Auxiliary audio source

Connections

The interface is equipped with a 1/8" AUX jack connection to connect an auxiliary device, such as an MP3 player, DVD player or other audio source. To access the AUX audio source, select DISC 5, Track 2 or Preset 5, Channel 2.



1/8" mini stereo jack, not included

Making the adjustments

While listening to the auxiliary device, adjust the volume (gain), bass, mid and treble by turning the Tune dial or pressing the Seek button. DISC/Preset 1-4 modes select what adjustment the Tune/Seek buttons perform. See illustration on page 22.

AUX Source Settings

The auxiliary input has settings for gain, bass, mid and treble in order to optimize sound.

Volume (Gain) should be adjusted if the audio level from the auxiliary device is too low or too high. If you hear distorted audio while playing the auxiliary device, you need to reduce (-) the gain. If you notice that the audio is too quiet then the gain setting should be increased (+). Default settings are "50" ("68" for gain) and values may be adjusted in increments between 01-99. Bass, Mid and Treble should be adjusted to compensate for the acoustic presets of the radio.

Note: If you are using an AUX device that is using the vehicle's power source and not its own battery, you may have to use a GROUND-LOOP isolator to avoid grounding and engine noise.



Troubleshooting

| Problem | Solution |
|---|---|
| Cannot select CD changer source. | Check DIP switch settings (refer to p.9). With the ignition OFF disconnect vehicle harness from module for 50 |
| Radio/NAV display only shows DISC and Track number, but there is no iPod control. | Select DISC 5 and make sure it is set to Track 01. |
| Radio/steering wheel controls do not operate iPod. | Reset iPod and make sure most recent iPod firmware is installed. |
| No text display. | Make sure DIP switch settings are correctly set for text display. (Refer to p.9 for dip switch settings.) Note that early model Mini Cooper vehicles do not support Text. |

Troubleshooting

| Problem | Solution |
|---|--|
| No audio from iPod source. | Reset the iPod. |
| iPod does not charge. | Check all connections. See if iPod charges while connected to computer or wall charger. |
| Music is distorted or sound level is too low. | Check and make sure all EQ and BASS boost options are turned off on your iPod. |
| Correct DIP switch settings, but still no text display. | Select DISC 6 to set text output to the correct location. (Refer to p.14 for Text display settings.) |

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Products carry a one year limited warranty that protects you from defects in material and workmanship of products sold by Neo Car Audio Inc., or its authorized agents, distributors and dealers. The warranty period begins the day a product is purchased by the end user. Products found to be defective during the warranty period will either be repaired or replaced by Neo Car Audio Inc. at no charge unless warranty is void. Unauthorized attempt of repair or alteration of the product in any way immediately voids this warranty. Warranty does not extend to cosmetics or finish. A Neo product specialist must determine that defect is present in the product and issue an RMA. Be sure that all wiring is connected as described in the user manual and all related equipment is functioning properly. Neo Car Audio Inc. disclaims any liability for other incurred damages resulting from product defects. Any expenses in the removal and reinstallation of products are not covered by this warranty.

If experience any problems or need help, please contact your local dealer or call 619-704-0699, or email us at neosupport@neocaraudio.com.

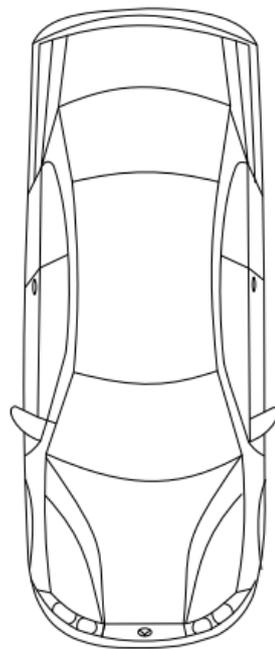
Installation notes:

Installed by:

Install date:

Other notes:

Illustration:





NEO CAR AUDIO

BMW/Mini Cooper compatible integration for iPod
www.neocaraudio.com

BMW-iPod 2009-07
