

## OPI-P Version Changes

### Version List

#### Version 08/0708:

Ground-up rewrite of the OPI-P's core operating system. This rewrite not only improves the overall speed and performance of the OPI-P, but also improves the interaction of the OPI-P with other devices in the vehicle, such as factory Satellite radio and other Nav-TV modules.

- 1) Corrected startup issues that would sometimes cause the PCM to not recognize the iPod or OPI-P if the iPod was plugged in prior to starting the vehicle/turning on the radio.
- 2) Implemented a new suspend and resume routine that allows for the iPod to be disconnected from the OPI-P and remain on the same position in the track that was playing prior to disconnection. This also allows the OPI-P to continue playing a track from the point that the iPod was reconnected or the system was shut down. Furthermore, this allows for it to maintain different positions for different iPods.
- 3) Fixed the issue that caused the unit to exit Aux-In or Manual control mode when the unit would be restarted.

#### Version 08/0722:

- 4) Corrected an issue that yielded an incorrect playlist (for instance, blank or having mixed artists and tracks), especially when the iPod was paused prior to selection of a playmode such as Playlist, Artist, Album or Genre.
- 5) Re-synchronized the pause control of the iPod with the Mute control of the radio.
- 6) Corrected an issue that would cause the iPod to lock in "Load CD x" mode, which occurred more frequently in older iPods.

#### Version 08/1024:

- 7) Corrected incomplete startup issue, which occurs in certain conditions, especially when powered up in a cold environment. This update corrects the startup sequence to allow the module to operate properly in those conditions.

#### Version 09/0324:

- 8) Minor rewrite of initialization routine. This version addressed some minor issues with startup timing.

#### Version 09/0625:

- 9) Rewrote device initialization routine. When multiple devices were connected, the initialization timing would sometimes cause one or more devices to fail to start properly, which could then cause the PCM to fail to start up.

#### Version 09/0910:

- 10) Revised authentication protocols to accommodate the changes implemented in Apple's v3.0 software. This was required to allow for proper compatibility with the new iPhone or the Gen2 Touch with 3.0 and higher software.
- 11) Adjusted the audio-out control method. Some iPhones and Gen2 Touch's would play the audio through their internal speaker instead of the OPI. The track, time and playlist information would remain accurate, but the audio would play only through the device's internal speaker.
- 12) Rewrote track-list loading method. Sometimes the track-list would not be reported correctly to the radio causing an erroneous "No iPod" message.
- 13) Revised iPod connection routines. When an iPod is connected before startup, the iPod can attempt to communicate before the OPI is ready to receive information. This change makes sure that the iPod communication occurs only when both devices are ready.

### Known Issues

- 1) Occasionally, when the OPI-P is started or an iPod is plugged in, it may not start playing automatically. This is easily remedied by either pressing "Mute" twice or switching to radio and back to CD.
- 2) When there is a CD in the drive inside the radio and the system was turned off with AM/FM/SAT as the last audio source, pressing the CD button will activate the single-CD first and a second press will activate the OPI-P. This behavior is completely normal and is the proper behavior for the radio.
- 3) When the mode of the radio is changed from Satellite to OPI-P or single CD and the radio is turned off, pressing the AM-FM button after turning the radio back on will select AM and not Satellite. This too is the normal behavior of the radio and does not indicate a malfunction of the unit.
- 4) To maintain proper timing, there is a 3 second delay when the playlist loads the next page or the previous page. During this delay, the Next and Previous page commands are ignored. This delay is necessary to provide a properly synchronized playlist.
- 5) When the iPod is changed from Manual to Radio control mode, the playlist will reset to the beginning of the last playlist selected on the radio. There is no way to avoid this, since we have no way to monitor what gets selected in Manual mode.
- 6) When repeat mode is engaged and the iPod is unplugged and re-plugged, the repeat mode will be cancelled.

### Note on iPhones and 6<sup>th</sup> Generation iPods

1. The current version of the OPI-P software supports the authentication hardware that is required for new iPods; however the hardware is not currently installed on all OPI-P boards. If you are using a newer iPod or iPhone and it is behaving sluggishly or the song playing on the iPod is not the song that's displayed on the screen with this current software version, you may need to replace your OPI-P module. Please contact Nav-TV tech support in this case.
2. The **iPhone** requires an alternate version of the authentication hardware that is designed specifically for the iPhone. When an iPhone is connected to an OPI-P with the authentication hardware a screen may pop up stating that the accessory is not made for the iPhone. This DOES NOT mean that it will not function correctly. In fact, the message will go away by itself within approximately 10 seconds, or you can select the "No" option to make it disappear faster. Aside from this message, the iPhone will operate as any other iPod when connected to the OPI-P.
3. The new iPhone, Touch and Nano use a different charging method from previous iPods. Currently these devices do not support charging directly from our OPI-P module. However, they will operate correctly in all other aspects and will charge when our 3G Charging adaptor is used.