



February 2005

For Internal Use Only!**INSTALLATION SUPPLEMENT FOR VOLKSWAGEN****Subject:****I20_VW_R Dension ice>Link Plus for Volkswagen, Radio Interface Kit**

For all Volkswagen radios, including single and double DIN Monsoon systems, including Navigation.

Models Supported:

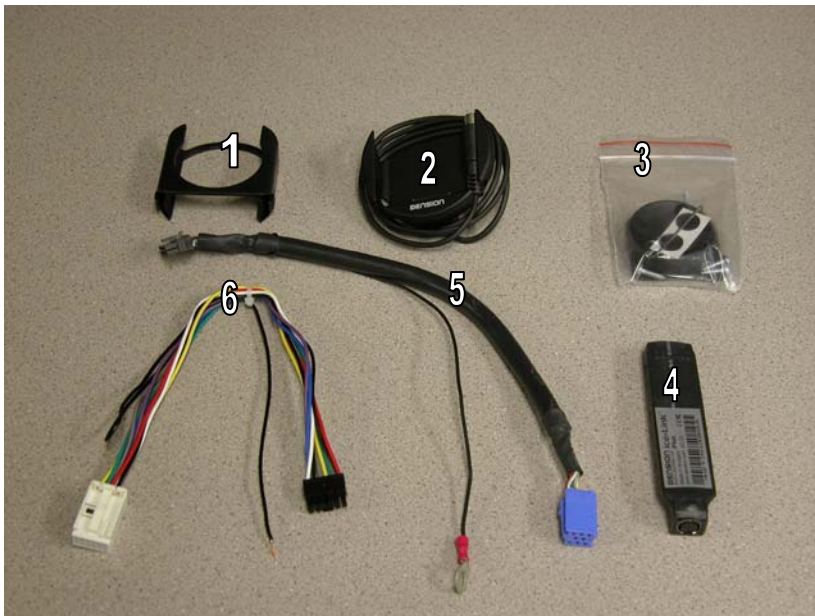
Eurovan	MY1998-2003
Golf	MY1998-2005
Jetta	MY1998-2005

Passat
Touareg

MY1998-2005
MY2004-2005

**Recommended Installation Time:**

All models – approximately 45 min

Parts Information:**Contents of kit I20_VW_R****Kit Contents**

Please verify all parts before installation!

1. Mini iPod Sleeve/Insert
2. ice>Link Plus Active Cradle
3. Mounting Screws/20G iPod spacer/Base
4. ice>Link Plus Module
5. ice>Link Plus VW Interface Cable [R1]
6. ice>Link Plus VW Interface Cable [R2]



Optional Mounting Interfaces for Active iPod Cradle:

Vehicle Specific mounts can be purchased through a variety of resellers. Please visit ProClip, Panavise or Pro Fit for a complete selection of dashboard mounts.

Overview:



The ice>Link Plus for your iPod plays high quality music from your iPod through the existing Volkswagen's entertainment system's CD changer port. There is no need for cassette adaptors, cigarette lighter chargers or FM transmitters. You can start enjoying direct line-in audio quality with charging and iPod control from your existing car entertainment system.

The ice>Link: iPod powers the iPod on and off as you enter/exit CD changer mode on your Volkswagen's entertainment system. Fast Forward, Rewind, Search, & Seek are passed to the iPod too – this is really great for cars with steering wheel entertainment controls. The sleek design of the ICE>Link cradle will compliment most interiors as it were offered from the factory. The Cradle also acts as a charging source and will power down the iPod into a "sleep" mode when the iPod is not in use.

The following functions are available with the ice>Link Plus:

- Full integration of the iPod into the Volkswagen. The ice>Link fully emulates the factory Volkswagen' CD Change and allowing for Dual mode operation. Dension User Interface mode enables access to all iPod playlists through a combination of CD changer interfacing and the innovative Dension menu. iPod User Interface mode lets the user operate the iPod control surface and maps car controls to major iPod commands.
- The ability to command playlist & track selection via the steering wheel controls and radio head unit. Fast Forward/Rewind and Advance/Preview Track commands are offered as the iPod was a CD Changer.
- Future-proof design. ice>Link Plus firmware can be upgraded directly from the iPod. Furthermore, the modular design enables the interface to be retained if the user changes vehicle with only a simple cable harness being required to adapt to a new vehicle application. This also enables the user to upgrade their iPod from one generation to the next and retain their interface.
- The "trademark" Dension active cradles securely hold Apple iPods that feature a dock connector.
- When switching from CD Changer (CDC) Mode to AM/FM, the iPod will power down to a "sleep" state and pause at that particular point in the current playing MP3 – only to resume when switching back to CDC mode.
- Whenever the iPod is connected, ice>Link Plus provides charging to ensure that your iPod is ready to go when you leave your car. ice>Link Plus is now featuring a smart charge control where you can select when your iPod should be charged. Reducing the daily charge cycles may extend the life of your battery.
- The iPod is in retained full-function mode, allowing for navigation via radio/steering wheel controls or via iPod. This allows for "On the Go" playlist creation on the iPod and ratings of MP3s that are playing. Random and Shuffle modes are also retained on the iPod.
- You can create any number of playlists and browse between them! Playlists generated by the Apple iTunes™ and on-the-go playlists are available as well! Even better, the first five playlists can be accessed directly by pressing just a single button Disk 1 - 5 on your radio. Of course, if you prefer the standard Apple iPod user interface, you can select it any time.
- Ice>Link Plus is now multi-platform compatible. When you lease or purchase a new vehicle, all you need is a new harness and a new configuration file. Imagine replacing your factory radio system to an aftermarket radio and being able to use the same ice>Link Plus interface!



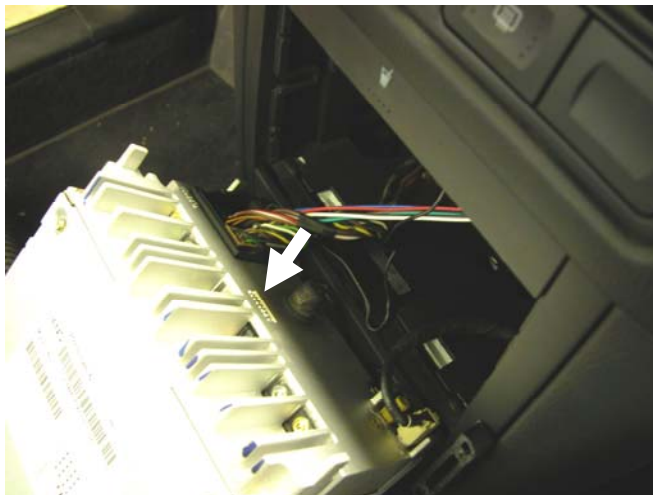
Installation Instructions:



1. Pull vehicle into service bay and access trunk area.

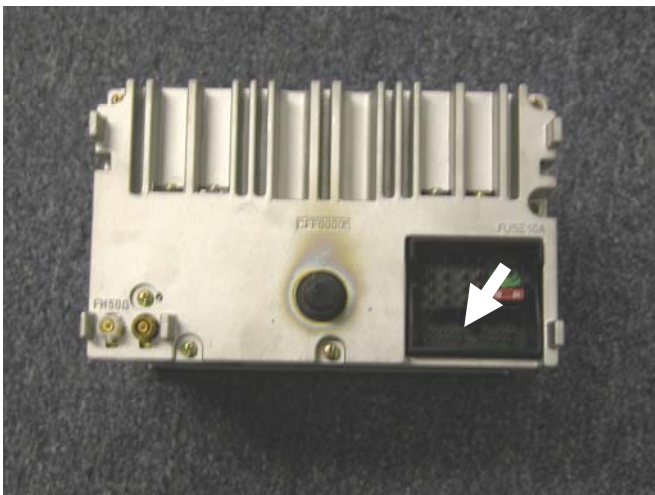
2. Disconnect **both** battery terminals. These cables must be disconnected during installation in order to properly reinitialize when ice>Link is connected.

3. Remove radio by inserting the (4) factory keys (not included) into the slots on each corner of the radio.

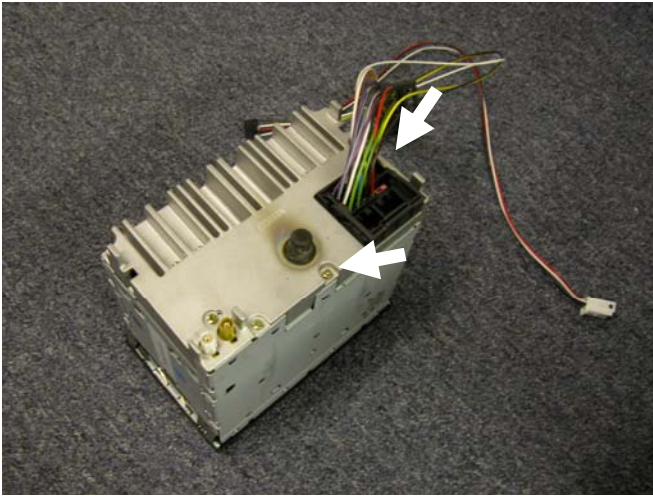


4. CD changer interface will be on left hand side of radio, it is the smaller left-hand connector on the bottom of the harnesses.

Remove all wiring from the radio unit and remove from vehicle.

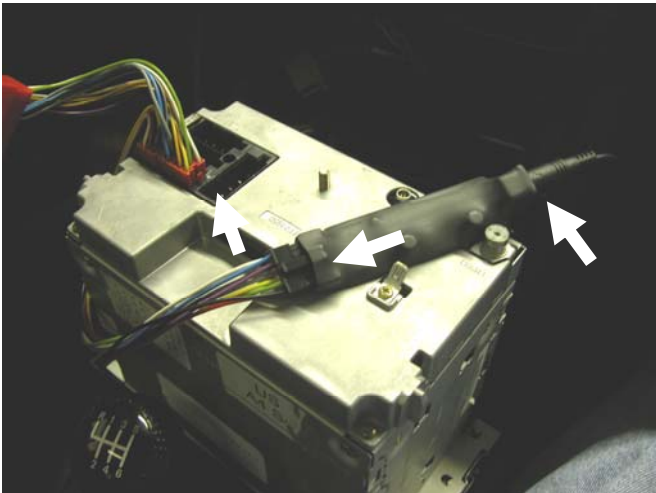


5. Shown is the CD Changer harness through the back of the radio. The ice>Link Plus harness will be interfacing from this point.

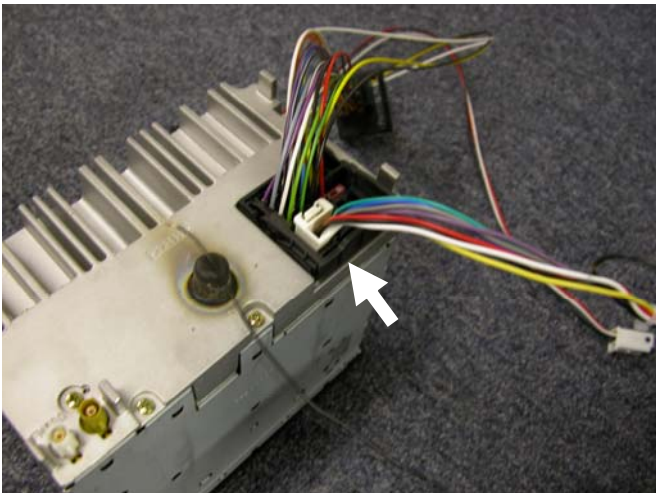


6. Install the supplied ice>Link Plus VW Interface Cable into the specified port and lock into place.

The connection on the left is the factory grounding point to which the ice>Link harness will need to be grounded to or an alternative location.



7. Connect the main wiring harness into the ice>Link Plus VW Interface Cable and lock into place.



8. Connect the ice>Link Plus VW Interface Cable into the ice>Link Plus module. Plug the Active Cradle connector into the ice>Link Plus Module.

Connect the remaining adapters and antenna leads back into the radio and prepare for re-installation.

Verify all leads are firmly locked into place.



This will be a good time to test functionality before running the cabling through the vehicle.



9. Verify all connections and re-install the radio back into the vehicle by sliding into the tray until it locks into place.



10. Route Active Cradle wiring from rear of VW console and route to desired location for Active Cradle.

Shown to the left is the Active Cradle mounted onto a vehicle-specific mounting base (not included) from Pro Clip.



Mounting Solutions:

If using Active Cradle, attach the cradle using the option ProClip mount specifically for the type of vehicle you are installing the ice>Link into.

Above is an example used in an Volkswagen Golf using the ProClip mount, other vehicle-specific mounts can be purchased through Panavise and Pro Fit as well.



Vehicle Coding:

None

Volkswagen ice>Link Plus Troubleshooting Procedures:

1. Check the current software on your iPod - it should be at the current version, this can be found by going into the SETTINGS/ABOUT menu in your iPod. The firmware version will be the 4th line of text on the iPod.

Current iPod Firmware versions as of 02.15.05

- Classic (1st and 2nd Generation) iPod – version 1.4
- 3rd Generation iPod – version 2.2
- 4th Generation iPod – version 3.0.2
- 5th Generation iPod Photo – version 1.0
- mini iPod – version 1.2

The iPod Intelligent Updater can be found at the following link: <http://www.apple.com/ipod/download/>

If the client's firmware revision is other than the current settings on their iPod or iPod mini, please advise to upgrade the iPod's software before connecting to the ice>Link.



Make sure you have the vehicle's radio security code before disconnecting the battery cables!

2. Disconnect **both** battery cables. While cables are disconnected, step on the brake and turn the key to the "start" position for a minimum of 10 seconds to ensure all power is drained from the Computer/Radio. With the key off and iPod removed, disconnect the ice>Link Plus interface to the radio.
3. Remove iPod from Active Cradle/Docking Cable.
4. While the ice>Link is powering down, reset your iPod while pressing and holding the MENU and PLAY/PAUSE buttons.
5. Reconnect battery cables and turn on the key to the "on" position but **do not** start the vehicle. Cycle through AM/FM/CD mode using the MODE button on the radio – you should **not** see a CD changer selection.
7. Using the CD button on the radio - try to select CD changer mode - you should see a NO DISK or NO CD message on the dot matrix display (emulating a CD Changer without CD magazine installed)
8. Select a song from your playlist on the iPod and play.
9. Insert the iPod into the ice>Link cradle while song is playing – Happy iPodding!