

VOLVO

Bluetooth **5**



AZDIY-VOL (V10.3)

QUICK START BLUETOOTH INSTALLATION GUIDE FOR VOLVO CD CHANGER CONTROLLING RADIOS

Created March, 2017
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PRODUCT SAFETY & DISCLAIMER

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY

- This installation guide is provided as a GENERAL installation guide, some vehicles vary and may require additional steps. We do not accept responsibility for third party labor charges or modifications. Exercise due-diligence when installing this product.
- We do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product.
- Careless installation and operation can result in equipment damage.

Requirements:

Radio with "CD", "CHGR" or "CHG" button on faceplate

Introduction (newest version 10.3)

Many Volvo car owner's adamant about keeping cars system as stock possible, will be thrilled with the A2DIY-VOL kit which adds modern Bluetooth features without changing the look and feel of dashboard components. The A2DIY-VOL features **Bluetooth Hands-Free and music streaming** from any Smartphone with A2DP and HFP support, a remote control for both Apple and Android devices allows users to track up/down, pause, increase/decrease device volume, answer/end calls and more.

Optional Fast charging kit to keep devices fully charged while on the road.

Newest version (10.3), AUX input is no longer offered.

Support for Bluetooth 5.0 and

Call number announcement on car speakers.

Keep the radio and car you love while enjoying Bluetooth features only available on newer cars.

For more details, see Frequently Asked question at the end of this guide.

Installation

Warning: Although not critical, we recommend disconnecting battery. Keep in mind, most Volvo radios are coded and will not operate without code. Radio code must be available for radio to operate upon reconnection

1. Remove radio by pressing both spring-loaded release tabs as seen in Fig. 1



Fig. 1

2. Place finger inside release ring and pull outward as seen in Fig. 2



Fig. 2

3. Connect 8-pin plug (See Fig. 3) to "CD" port (See Fig. 4).
Note: Push plug in all the way otherwise radio may not detect module. Factory CD changer (if present) must be disconnected.



Fig. 3



Fig. 4

Radio's 8-pin changer port

4. Use clip to secure microphone to headliner or visor (See Fig. 5)
5. Route microphone cable (10 ft. long) down side pillar, under steering column and into radio cavity.
6. Connect microphone right angle plug to module "MIC" input. (See Fig. 6)
Wind noise will negatively affect phone audio. Users are advised to install microphone away from wind/ventilation ducts etc.



Visor microphone



Fig. 5



Fig. 6

Module

7. Tap installation harness yellow wire to 12V battery (unswitched) supply. 12V battery supply is available on either the **GREEN/BROWN** or **GREEN/RED** wire on radio harness (See Fig. 7)

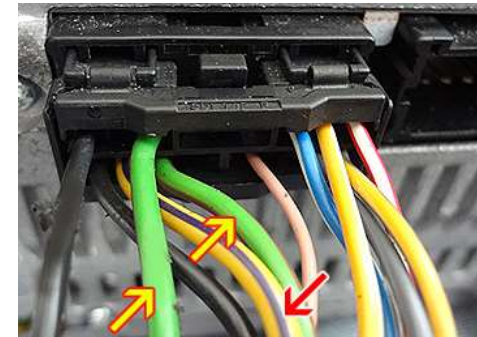


Fig. 7

- II. Secure module and proceed to next section.

Optional USB type-C charging kit (charge only)



Optional USB type-C charger can be added to the AZDIY-VOL Kit. Should you decide to add it, we suggest one of 3 installation options:

- A. **Flush to dash/panel requires drilling a 3/4" hole**
- B. **Flush with support bracket** (Mount terminal wherever your installation demands without drilling)
- C. **Freestanding-** (default)

A. Flush to dash/panel (drilling required)

1. Drill a 3/4" hole in the dash/panel using a step drill bit or equivalent (See Fig. 10)



Fig. 10
Step drill bit

2. Insert cable through hole created in step 1
3. On module installation harness locate charger Fig. 11)
4. Connect cable from step 2 to charger USB type C- port



Fig. 11

5. Snap USB head to opening until flush with surface (See Fig. 12)



Fig. 12

Tuck and secure any extra wire from moving parts and test operation

B. Bracket Mount (No drilling)

1. Locate a flat surface at location of choice within 3.2 ft. of module and mount support bracket (See Fig. 14) to surface screws (included).



Fig. 14
mounting bracket

2. Insert cable through hole in bracket (See **Fig. 15**) and connect to charger (See **Fig. 11**)



Fig. 15

3. Snap USB head to bracket opening until flush (See **Fig. 16**)



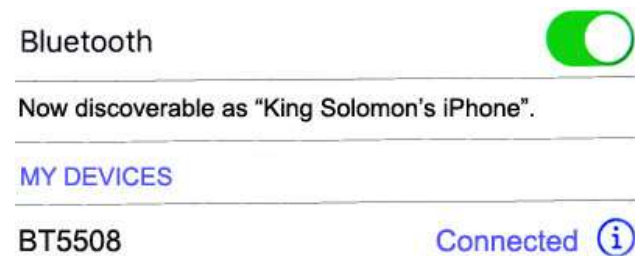
Fig. 16

4. Tuck and secure any extra wire away from moving parts and test operation (*See **Bluetooth Pairing and Connection***)
5. Connect **BLACK** wire to ground (radio chassis or harness ground wire), and **RED** or **YELLOW** to accessory or battery supply. Your choice!
Accessory connection: charging is possible with ignition/engine "ON".
Battery connection: charging is possible at all times.
Tuck away any extra wires and verify **BLUE** LED is lit.

Pairing module

Pairing varies among devices but basic steps are the same. This process is done upon initial install and will not have to be repeated

1. Turn Ignition and radio "ON"
Blue LED in adapter peephole will flash (pairing mode)
2. On A2DP device: go to **Settings, Wireless & Networks, Bluetooth Settings**
3. Select **Bluetooth** and turn on, select Bluetooth settings
4. Tap **Scan for devices**.
5. Wait for Bluetooth device name (See below) to appear and select it. *Once paired Blue LED inside peephole flashes once every 2 seconds and confirmation tone is heard on car speakers*



One connection

The A2DIY-VOL connects to one device at a time. You must disconnect/un-pair first device before pairing a second, or simply disable Bluetooth on first device.

Notes:

1. **New!** On incoming calls, ring tone and call number announced on car speaker.
Additional tone (static) heard during call number announcement (this is normal)
2. *Media remote does not control Volvo radio functions.

Media remote button

Pairing Bluetooth remote button: Ensure Bluetooth is enabled on your device (e.g., Smartphone/Tablet etc.)

Press and hold pause/play button (See **Fig. 18**) until Blue LED flashes

Scan smartphone for available devices and select **BT009** from list. (Blue LED turns off).



Fig. 18

Installation:

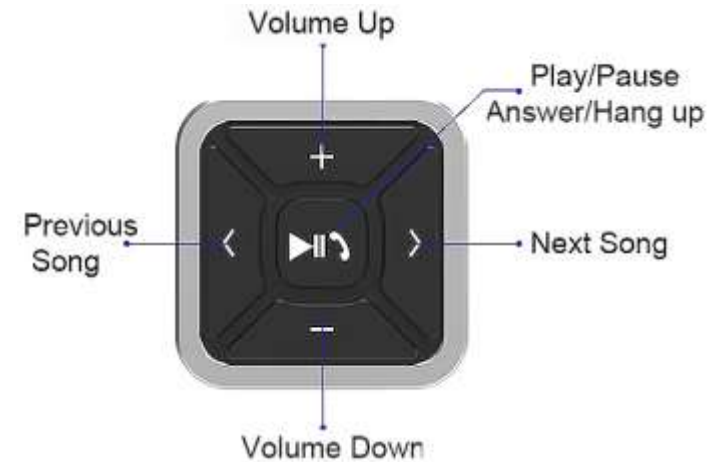
Attach button to steering wheel (includes holder) or dashboard using included double sided tape – your choice!



Operation:

Once paired with smartphone/Tablet, users may perform the following functions on iOS devices with Bluetooth 3.0 and later or Android 4.0 or later.

Media remote functions do NOT apply to Volvo radio.



Charging:

Media button built-in rechargeable 200mAH battery may last up to 10 days. Use supplied USB cable to charge. Red LED indicates charging; Full charge is reached after 2 hours at which time LED turns off.



Volvo adapter comparison chart

Feature	VOL-AUX	A2D-VOL	A2DIY-VOL
CD changer retention	X	X	X
AUX input	✓	X	X
charging kit	X	X	**
Muting	X	*	*
Hands-Free calls	X	X	✓
Music streaming profile	X	✓	✓
Call number announcement	X	✓	X
Remote control	X	**	✓
Multi-device pairing	X	✓	✓
Controls from radio buttons	X	X	X

* When radio is in CD changer (Bluetooth Mode)

** Optional

Operation:

1. Turn ignition to ACC and radio "ON"
2. Press the "CD" CHG" or "CHGR" button on radio faceplate to enter "Bluetooth" mode
3. Launch smartphone music streaming application
4. Use remote control to change tracks, adjust device volume, pause play, answer/end calls etc.
5. Place phone call or ask someone to call.
6. Adjust call volume with media remote, steering wheel controls or radio volume knob.
7. To end call press media remote, **Pause/Play**
8. If correct operation is confirmed go ahead and reinstall radio.

Warning: Playlist and Track selection is *NOT* possible using Volvo radio buttons. Use audio device built-in controls and display or media remote to access and control audio files and applications.

Notes:

Adding additional load to electrical system in older vehicles can result in alternator whine or similar noise. We recommend installing a [noise filter](#)

Frequent ask questions & troubleshooting

- What's the difference between A2D-VOL and A2DIY-VOL?**
See Bluetooth comparison chart on previous page. Major difference is A2D-VOL does not support hands-free calls
- Does the A2DIY-VOL work on all Volvo radios?**
NO; works only on Volvo "SC" and select "CT" radios with CD changer controls. **(non-changer controlling radios are not supported)**
- Can I control Smartphone from radio buttons?**
NO; use Smartphone built-in controls and display to operate device, or included remote control. Radio volume button is used to set playback level. Dependent on radio firmware, you may be able to use track up/down button to end/start call.
- Can I pair or save more than one device to the A2DIY-VOL?**
YES; pair more than one device, but only one can be active at a time.
- What happens if streaming and call comes in?**
Streaming will mute, call number announced on car speakers, call rings on car speakers. To be connected with caller simply press media remote **pause/play** button. To end call press, **pause/play**. Streaming resumes.
- Can I connect module to the CD changer plug in trunk/hatch?**
NO; Trunk/hatch location is not ideal for connecting Hans-free module.
- Pressing "CD", CHGR" button does not switch radio to "CD mode. What can I do to resolve?**
For radio to recognize module ensure 8-pin plug is fully inserted to radio connector and the yellow (Battery supply) wire is supplying 12V to module.

Disclaimer

- This product has no affiliation with Volvo.
- We're not liable for misuse of this product.
- We recommend professional installation.

Email support@discountcarstereo.com

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Scotchlok™ 567

Self-Stripping Electrical Tap Connectors



Data Sheet

Application

Use 3M™ Scotchlok™ Tap Connector 567 to electrically connect a (tap) wire end to a through (run) wire and insulate the connection.

Wire Range

(Tap) 18-14 AWG (.75-1.5 mm²):
(Run) 12-10 AWG (4.0 mm²)

Solid or stranded copper conductors. For use with common thermoplastic insulated wires such as: T, TF, TFF, TFN, TFFN, AWM, TEW, SAE-GPT with a maximum insulation diameter of (tap) .145 inches (3.5 mm) run .190 inches (4.8 mm).

Maximum recommended current for general purpose applications:

18 AWG - 7 AMPS, 16 AWG - 10 AMPS,
14 AWG-15 AMPS, 12 AWG-20 AMPS,
10 AWG-25 AMPS.

Construction

U-contact - Tin plated brass, .03 in. (.8 mm) thick

Insulator - Polypropylene
Color - brown
UL 94-V-2

Weight

.0067 lb. (3.0 gm)

Recommended Installation Tools

9" Linemans Pliers
3M™ Crimping Tool No. E-9BM

Installation Instructions

⚠ WARNING

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

1. Place unstripped run wire inside run channel.
2. Insert unstripped tap wire completely and check it's position in the inspection port.
3. Hold tool perpendicular to the wires and make the connection by driving the u-contact down flush with the top of the plastic insulator.
4. Close hinged top cover until latched.

Regulatory Agencies

UL Listed - Tested per UL Standard 486C

UL file No. E23438

CSA certified - CSA Std. C22.2 No. 0. 188-M1983

CSA File No. LR15503, LR32411

(Voltage rated at 600 volts maximum, building wire: 1000 volts maximum, signs, fixtures and luminaires. Operating Temperature: 105°C.)

