CRUX®
INTERFACING SOLUTIONS

RADIO REPLACEMENT + SWC RETENTION

SWRVW-52B

Radio Replacement with Steering Wheel Control and
Factory Backup Camera Retention for Select Volkswagen Vehicles

PRODUCT FEATURES:

- Retains factory features in select Volkswagen vehicles while functioning with an aftermarket radio.
- Retains factory Steering Wheel Control functions.
- Retains factory backup camera.

NOTES:

1. Driver information display will show the last information that was shown prior to removing the factory radio.
2. This interface does not retain the factory Bluetooth or Sirius Satellite Radio.
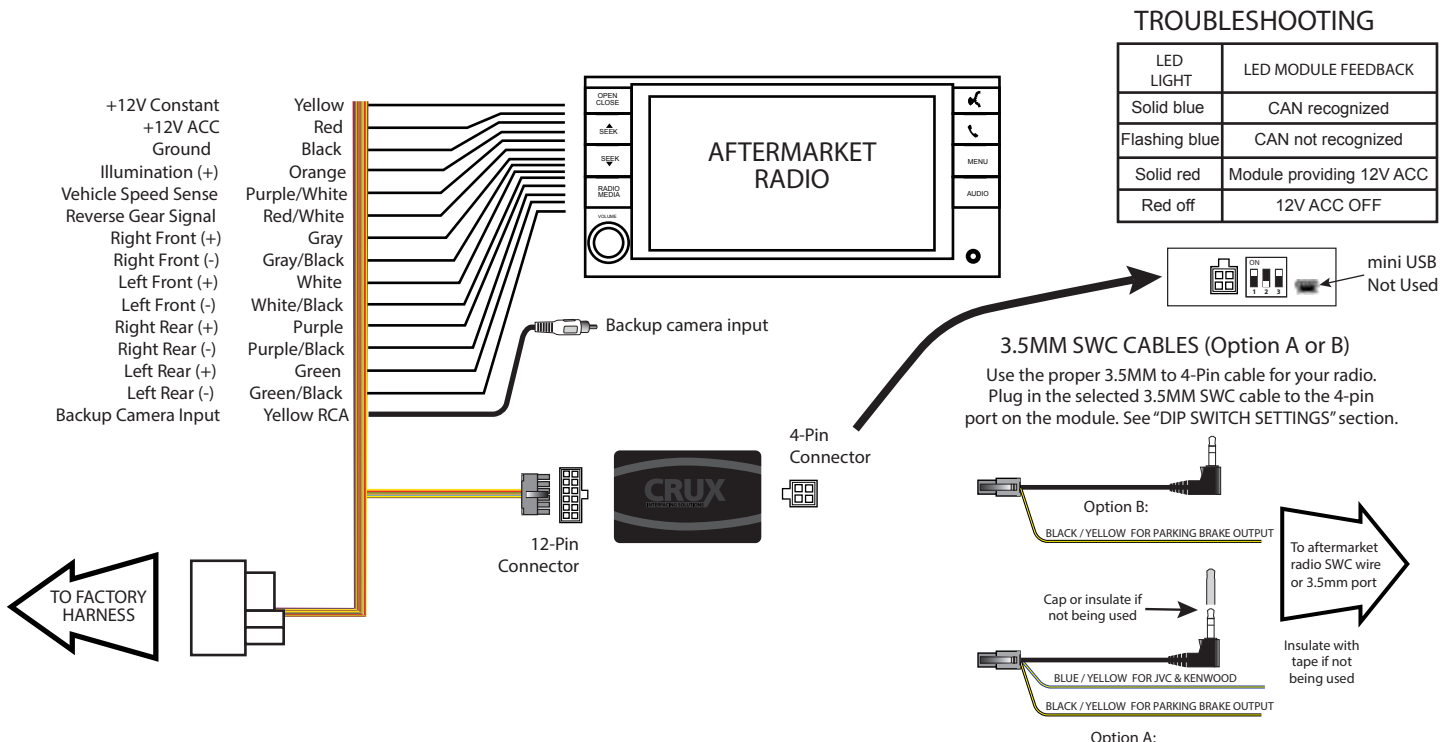3. Not compatible with amplified systems.

PARTS INCLUDED:

SWRVW-52B Module   SWRVW-52B Harness   SWC Cables

INSTALLATION DIAGRAM:

TROUBLESHOOTING

LED LIGHT	LED MODULE FEEDBACK
Solid blue	CAN recognized
Flashing blue	CAN not recognized
Solid red	Module providing 12V ACC
Red off	12V ACC OFF

+12V Constant	Yellow	
+12V ACC	Red	
Ground	Black	
Illumination (+)	Orange	
Vehicle Speed Sense	Purple/White	
Reverse Gear Signal	Red/White	
Right Front (+)	Gray	
Right Front (-)	Gray/Black	
Left Front (+)	White	
Left Front (-)	White/Black	
Right Rear (+)	Purple	
Right Rear (-)	Purple/Black	
Left Rear (+)	Green	
Left Rear (-)	Green/Black	
Backup Camera Input	Yellow RCA	

AFTERMARKET RADIO

OPEN CLOSE
SEEK
SEEK
RADIO MEDIA
VOLUME
MENU
AUDIO

Backup camera input

mini USB
Not Used

3.5MM SWC CABLES (Option A or B)

Use the proper 3.5MM to 4-Pin cable for your radio.
Plug in the selected 3.5MM SWC cable to the 4-pin port on the module. See "DIP SWITCH SETTINGS" section.

4-Pin Connector

12-Pin Connector

TO FACTORY HARNESS

Option B:
BLACK / YELLOW FOR PARKING BRAKE OUTPUT

Cap or insulate if not being used

BLUE / YELLOW FOR JVC & KENWOOD
BLACK / YELLOW FOR PARKING BRAKE OUTPUT

Option A:

To aftermarket radio SWC wire or 3.5mm port

Insulate with tape if not being used

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SETTING THE AFTERMARKET RADIO BRAND

This step is done on the SWRVW-52B Module. With the key in the off position, set the DIP switches to the corresponding radio listed below.

RADIO BRAND:	DIP#:	1	2	3
Atoto, Dual, Fahrenheit, Jensen		OFF	ON	ON
Pioneer, Power Acoustik, Soundstream		OFF	ON	ON
Blaupunkt, Most off-brand Radio		OFF	ON	ON
Alpine		OFF	OFF	OFF
Clarion		ON	ON	OFF
Kenwood		ON	ON	ON
JVC		ON	OFF	ON
Boss, Old Sony		ON	OFF	OFF
New Sony		OFF	ON	OFF

SWC MODULE DIP SWITCH

ON
1 2 3

SWC Troubleshoot option

Located internally
Need to take plastic
Casing off module

• If Steering Wheel Controls don't work or work properly please switch internal dip switch from 3v3 to 5v as shown in picture above.

NOTE: For Atoto, Blaupunkt, Dual, Farenheit, Power Acoustik, Soundstream, and most off-brand radios, check the aftermarket radio's manual to see if the SWC buttons need to be programmed.

4- PIN SWC CABLE

Use the proper 3.5MM to 4-Pin SWC cable for the aftermarket radio you are using.

OPTION A is used for ALPINE, CLARION. For JVC and KENWOOD use the Blue/Yellow wire.
OPTION B is used for ATOTO, BLAUPUNKT, BOSS, DUAL, FARENHEIT, JENSEN, POWER ACOUSTIK, PIONEER, SONY, SOUNDSTREAM and Most Off-Brand Radios.

NOTE: Cap or insulate the 3.5mm plug or Blue/Yellow wire if not being used.

For aftermarket radios that have wires for SWC connections, cut off the 3.5mm plug on the Crux SWC Cable and connect the SWC wires as follows:

RED to SWC Key 1
WHITE to SWC Key 2
SHIELD to SWC Ground

Note that there are some radios that only have SWC1 and SWC2, in this case "shield" does not need to be connected.

VEHICLE APPLICATIONS:

VOLKSWAGEN

2016 – 2018	Beetle
2015 – 2018	Golf / GTI
2017 – 2018	Golf Alltrack
2015 – 2018	Golf R
2015 – 2017	Golf Sportwagen
2016 – 2018	Jetta / GLI
2016 – 2018	Passat
2016 – 2017	Tiguan

2017 Beetle Radio

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Crux Interfacing Solutions • 21541 Nordhoff St., Unit C, Chatsworth, CA 91311
phone: (818) 609-9299 • fax: (818) 996-8188 • www.cruxinterfacing.com
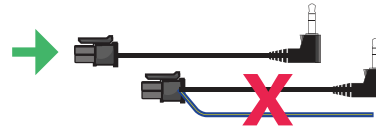
STEERING WHEEL CONTROL TROUBLE SHOOTING:

Note: Identify Alpine SWC learning radios by checking for three SWC cables and a SWC learn menu, instead of a 3.5mm SWC input.

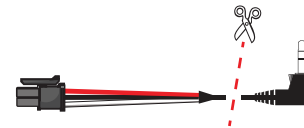| If Interface has one SWR-100 Cable included	If Interface has two SWR Cables included

1 - **Find the included SWC adapter cable.**

1 - **Identify appropriate SWC adapter cable.**
Do not use cable with Blue / Yellow wire.

2 - **Prepare the SWC Cable:** Cut the SWC cable. You will find a red wire, a white wire, and a ground (shield) wire inside.

3 - **Adjust the Module Settings:** Set the module to the Pioneer dip switch setting. This configures the module to communicate correctly with the Alpine radio.
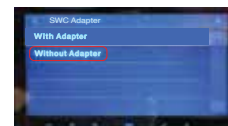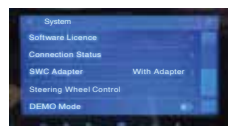
SWC MODULE

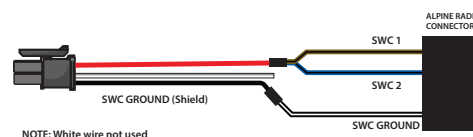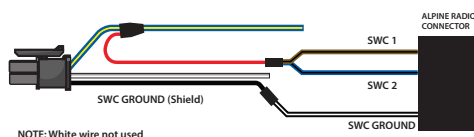|	DIP:	1	2	3
On Alpine iLX series radios use Pioneer settings		OFF	ON	ON

1 2 3

4 - **Configure the Alpine Radio:** On your Alpine radio, select the setting that includes "Without adapter" for SWC. This ensures the radio will recognize the steering wheel controls.

Select "SWC Adapter"

| System |
| Software Licence |
| Connection Status |
| SWC Adapter   With Adapter |
| Steering Wheel Control |
| DEMO Mode |

| SWC Adapter |
| WIth Adapter |
| Without Adapter |

Select the setting "Without Adapter"

5 - **Connect the Wires:** Connect both the SWC1 and SWC2 wires from aftermarket radio to the red wire from our SWC cable. Connect the SWC ground wire to the shield (ground) wire of our SWC cable. These steps should enable the steering wheel controls on your Alpine iLX series radio.

ALPINE RADIO CONNECTOR
SWC 1
SWC 2
SWC GROUND (Shield)
SWC GROUND
NOTE: White wire not used

ALPINE RADIO CONNECTOR
SWC 1
SWC 2
SWC GROUND (Shield)
SWC GROUND
NOTE: White wire not used

6. **Program the SWC:** Navigate to the SWC settings on your Alpine radio to assign and test each control function.

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