



Thank you for purchasing the Polaris Mazda BT50 RW-50/15 in-dash unit. Before removal and installation, be sure to thoroughly read these instructions. Keep these instructions with your vehicle records for future reference.

Mazda BT-50 RW-50/15 installation instructions Version 3

This installation guide is for reference only. Polaris takes no responsibility for any damage caused to any vehicle through incorrect installation, unsafe practices or poor workmanship.

Warranty for this product is 3 years from date of purchase, however warranty will be void if:

- The unit is tampered with, damaged or modified in anyway.
- Reverse camera cable is cut or modified in any way
- Reverse camera is subjected to over voltage
- The Navigation SD card is damaged or tampered with in any way (this includes installing foreign mapping or software onto the SD card)

Warranty Terms

The Mazda BT50 RW-50/15 is covered for 3 years and includes:

- Defective Equipment
- Defective Cables

Not Covered under warranty:

- Abuse
- Improper installation
- Alteration to cables (this includes cutting of any cables)
- Accidents

This Polaris BT50 RW-50/15 utilises the OEM CD player, AM/FM Radio and USB input. If you have any specification or troubleshooting enquiries in regards to these functions please refer to your owner's manual.

If you have any questions concerning the installation, warranty or the operation of the unit, please contact **Polaris** on **1300 555 514**.

We hope that you enjoy the Polaris BT50 RW-50/15 in dash unit.

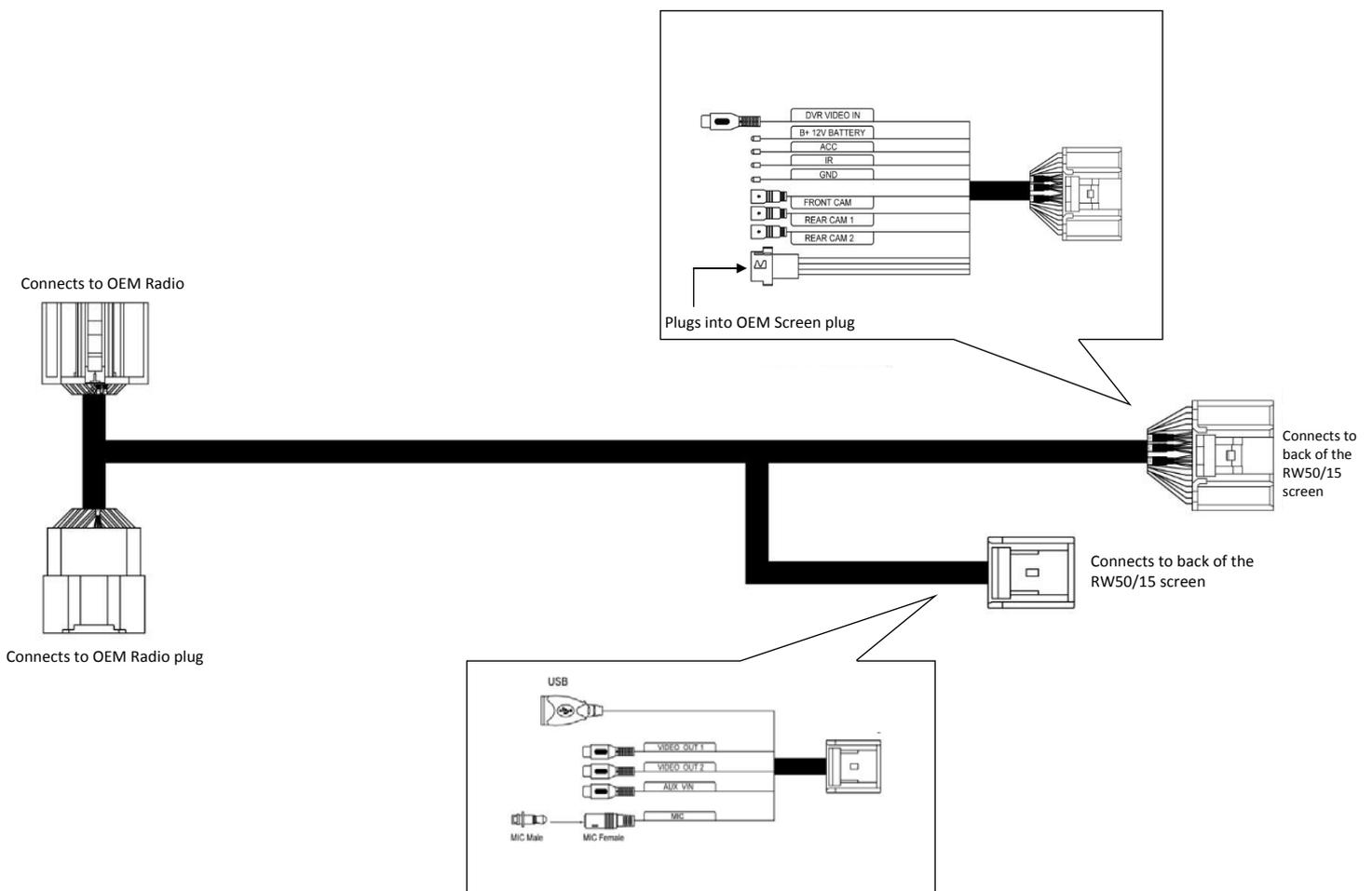
QUICK REFERENCE GUIDE

When the manual refers to **'TOP SECTION'** this is the area located where the OEM 3.5" screen was originally mounted

When the manual refers to **'CD HOUSING AREA'** this is the area located where the OEM CD housing was originally mounted

When the manual refers to **'OEM'**, this means original equipment manufacturer.

F. Wiring Diagram



Prior to installing the unit, please make sure that you have all the parts from the box and the necessary tools to complete the installation.

Parts - Packing List



1. RW-50/15 Fascia



2. RW-50/15 8" Interface Screen



3. Wiring Harness

1. RW-50/15 Fascia
2. RW-50/15 8" Interface Screen
3. Wiring Harness
4. Bluetooth External Microphone
5. GPS External Antenna
6. Instruction Manual
7. Trim Tool
8. Rear Vision Camera



4. Bluetooth External Microphone



5. GPS External Antenna + Bracket & Screws



6. Instruction Manual



7. Trim Tool



8. Rear Vision Camera

Tools required



1. Trim tools
2. Cable tie
3. Soldering Iron & Solder
4. Electrical Tape
5. Heat shrink
6. Burner for Heat shrink
7. Small Terminal driver
8. Short Phillips head screwdriver
9. Multi tip set
10. Side cutters
11. Drill
12. Split conduit
13. Yellow Tongue (long strike, approx. 3-4 metres)
14. Short strike (approx. 1 metre)

Important Installation tips

- We no longer recommend mounting the GPS Antenna underneath the dashboard; please mount it on top of the dash in the right /left top corner near the windscreen.
- Prior to installation, please disconnect and turn off the OEM Bluetooth function.
- If you are installing a front vision camera or a caravan/trailer camera, you will need to turn these functions on via the factory setup, to do this:
 - **Go into Setup > Version > Factory setup > type in 1876**
 - **To activate the forward vision camera, please change FRONT CAM from off to on**
 - **To activate the caravan / trailer camera, please change the REAR CAM from single to double.**
- When testing the navigation function, please ensure that you allow the program to completely load before activating any other function on the unit (this includes activating the reverse camera).

Step 1 - Remove Air conditioning panel



1. Starting from the bottom, use trim tools to remove air conditioning controls



2. Unplug harness and set air conditioning controls aside

Step 2 - Remove Fascia Panel



1. Use trim tools to remove fascia panel



2. Gently pull fascia panel out



3. Unplug button panel and set OEM fascia panel aside

Step 3 - Remove OEM Screen and CD Housing



1. Remove 2 screws holding OEM screen in place



2. Unplug harness and set OEM screen aside



3. Remove 2 screws holding the CD housing in place.



4. Unplug harness and set OEM CD housing aside for now.

WARNING

When removing the air-conditioning panel, fascia, OEM screen and CD housing, do not use excessive force to pull the panels out as there are harnesses that need to be unplugged before complete removal.

Step 4 - Prepare all the cabling in preparation for the head unit to be installed.

A. External Bluetooth Microphone



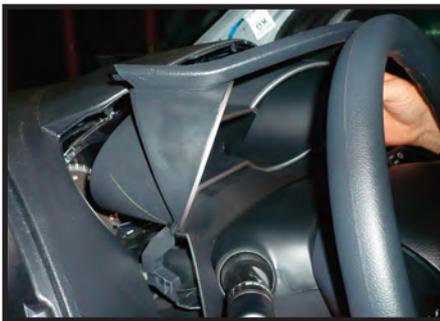
1. Remove door rubber and the driver's pillar trim



2. Mount microphone in the top right hand corner of the windscreen



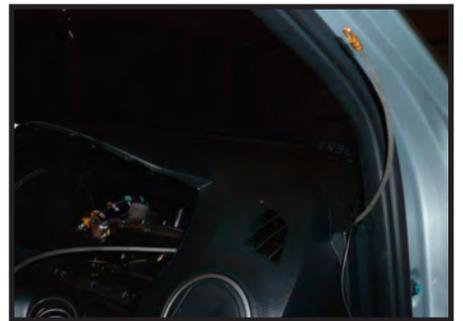
3. Use lever to drop steering wheel column down



4. Remove trim around instrument cluster panel



5. Unplug instrument cluster panel and remove



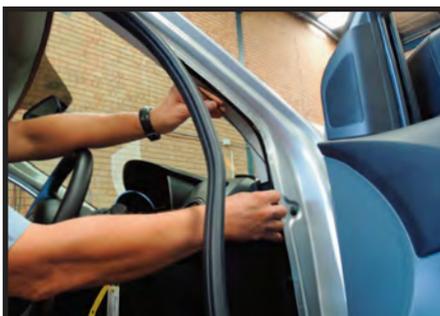
6. Feed short strike through A pillar hole and feed into the instrument cluster panel area



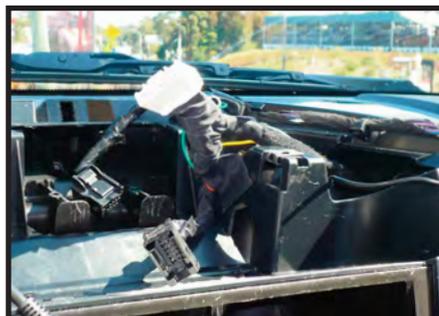
7. Tape Bluetooth mic cable onto strike and pull through to the instrument cluster panel area



8. You can now remove the tape and feed the Bluetooth mic cable into the TOP SECTION

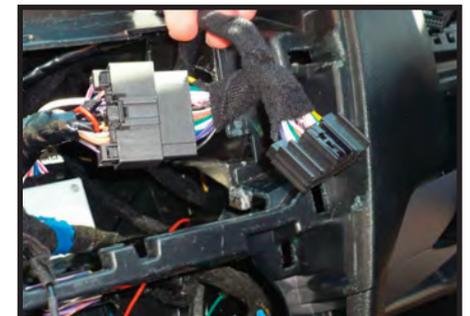


9. Tidy up cabling running down the side of the driver's pillar and reinstall rubber and trim

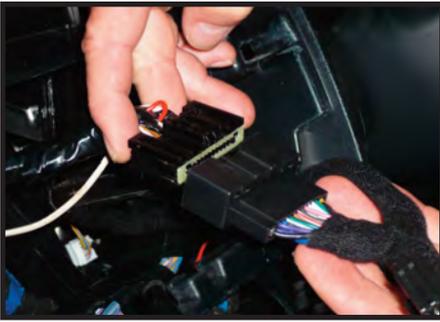


10. While the instrument cluster panel is removed we suggest feeding **PLUG A & B** located on **HARNESS 1** FROM the **CD HOUSING AREA** up to the **TOP SECTION**

(Please refer to page 8 for actual wiring diagram)



11. This will then leave **PLUG C & D** from **HARNESS 1** hanging in the **CD HOUSING AREA**



12. Connect **PLUG A** into OEM plug located in the **TOP SECTION** & Connect **PLUG C** into OEM plug located in the **CD HOUSING AREA**



13. Plug harness back into instrument cluster panel and remount.



14. Reinstall trim.
NOTE: please make sure the bottom section of the trim goes underneath the two reset dials.

B. IPOD & USB Cable



1. Remove glove box - gently push in sides to release.



2. Unclip OEM USB and AUX cable for now, so that you can remove the glove box completely.

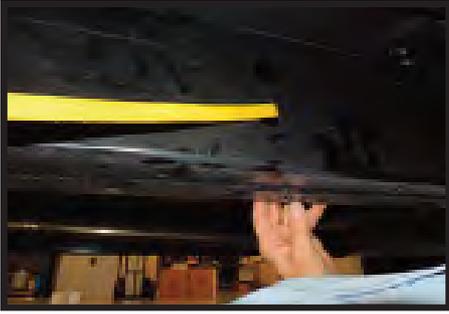


3. Feed RW50/15 USB cable from top section down into the glove box area

C. External Antenna

We no longer recommend mounting the GPS Antenna underneath the dashboard; please mount it on top of the dash in the right /left top corner near the windscreen.

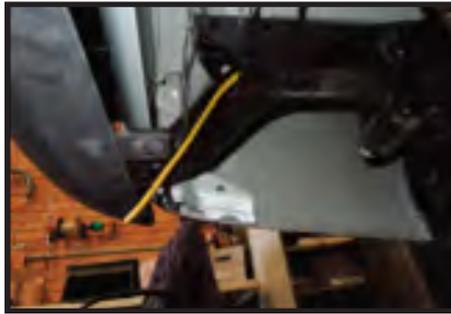
E. Rear Camera



1. Run your long strike through chassis rail from front to rear.

2. Tape camera cable (large 4 pin din) onto strike at the rear of the vehicle.

3. Pull strike through from front of the vehicle - making sure that you leave enough cable at the rear so that you can plug the camera cable in.



4. Attach the number plate camera onto number plate (as shown above)



5. Mount number plate back onto the vehicle.



6. Connect camera plug to the extension cable. Apply heat shrink over connection to avoid the plug coming loose.



7. Remove kick panel and scuff plate on passenger front side of vehicle



8. Lift carpet up to find grommet



9. Remove grommet and feed cable through



10. Use cutters to make an incision in grommet so that you feed cable through it. Once you have fed the cable through the grommet restore grommet back into its original position.



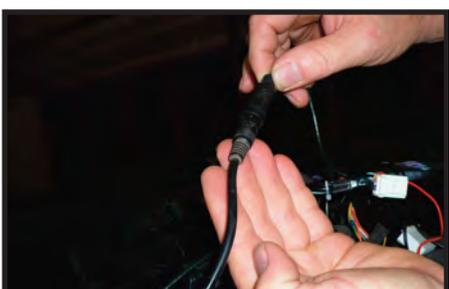
11. Pull excess cable then apply conduit to all exposed cable.



12. Run reverse camera cable up into glove box area.



13. Feed camera cable up to top section



14. Position **HARNES 2** up in the top section and plug the camera cable into the reverse camera plug input

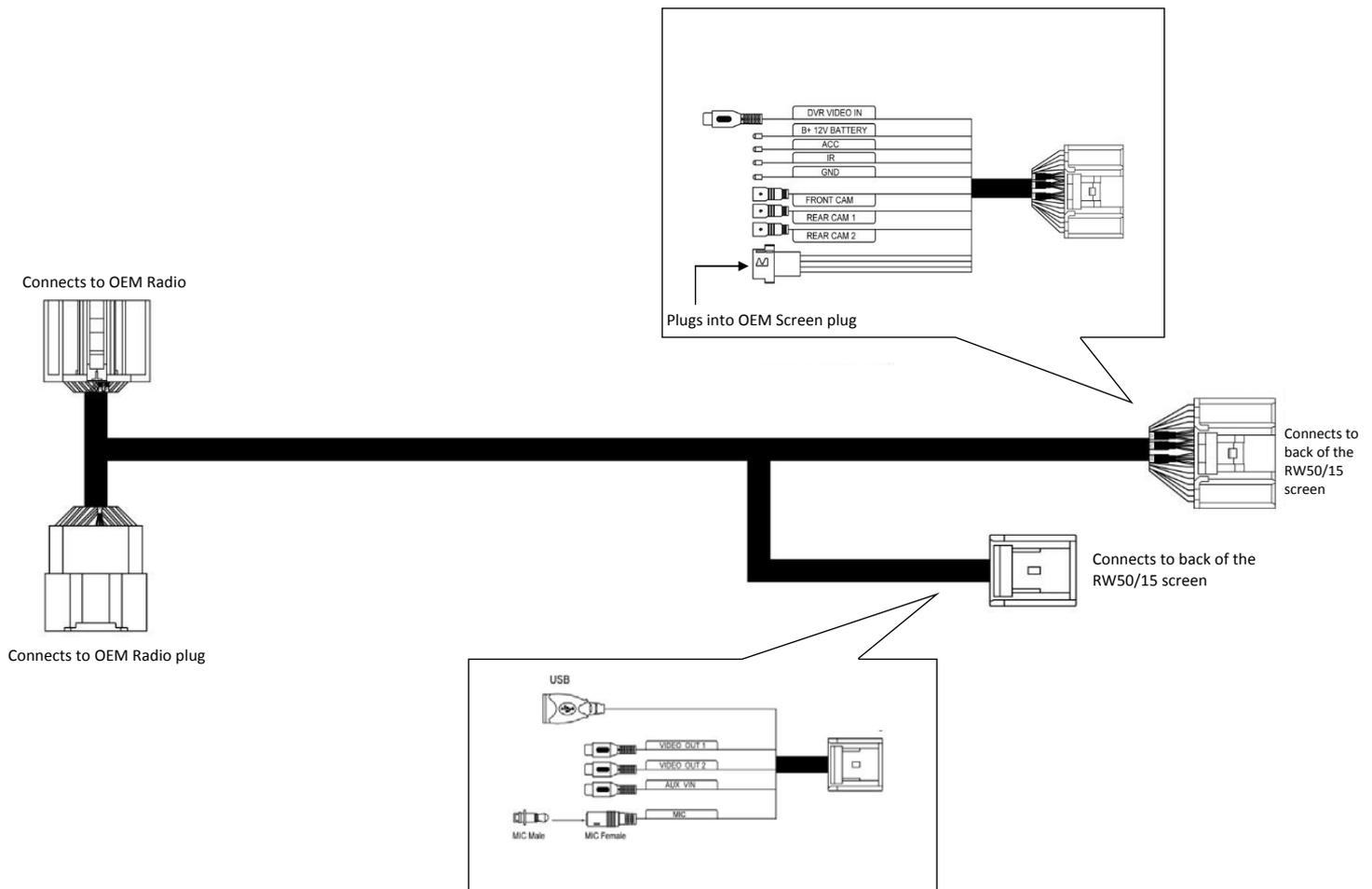
15. Connect the reverse camera trigger plugs from **HARNES 1** and **HARNES 2** together

Notes:

Once you have repositioned the grommet after feeding the reverse camera cable through, we recommend applying silastic around the outside the cable for waterproofing

Once you have fed the camera cable from the glove box area up to the TOP SECTION, we recommend that you cable tie any loose cables.

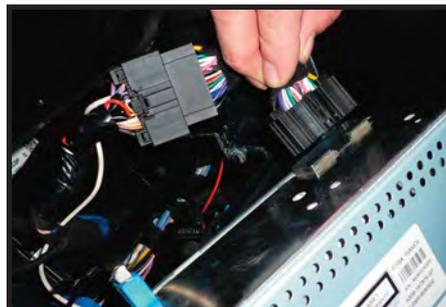
F. Wiring Diagram



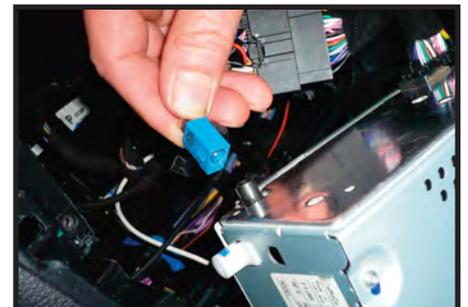
Step 5 - Mount OEM CD Housing



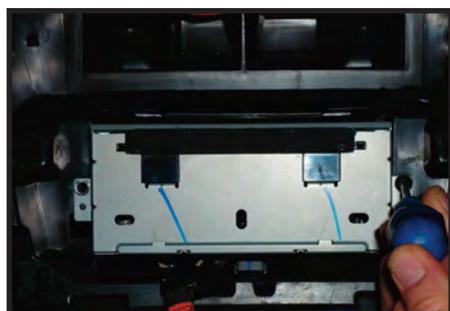
1. Before re-mounting the OEM CD Housing we suggest positioning the power amplifier box just behind it.



2. Connect **PLUG D** into the back of OEM CD housing



3. Plug the radio antenna into the back of the OEM CD housing



4. Mount the CD housing back into position and secure in place with the original screws.

PLEASE NOTE:

If your Mazda BT-50 originally had the OEM GPS system installed, you need to plug in a different radio antenna. Instead of using the radio antenna that normally plugs into the back of the OEM CD housing (the connector that you originally unplugged), you must use the radio antenna that was originally plugged into the the back of the OEM GPS Screen (it is the black connector).

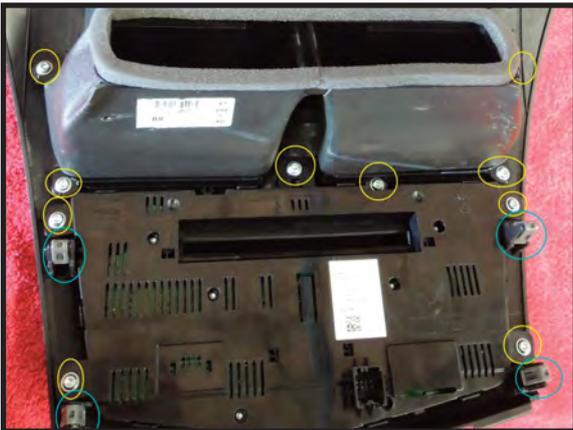
Step 6 - Prepare the BT50 RW-50/15 fascia OEM Fascia



1. Grab the OEM fascia and remove all 9 clips and set aside.



2. Remove the 10 screws holding the button panel and air conditioning vents in place - set aside.



3. Position the button panel and air conditioning vents onto the RW-50/15 fascia and secure in place with the 10 original screws.



4. Clip the 9 clips onto the RW-50/15 fascia



5. Use the 2 screws to attach the RW50/15 screen to the fascia.



6. Finished product.

Step 7 - Fascia installation



1. Connect PLUG B & E into the back of the RW50/15 interface screen



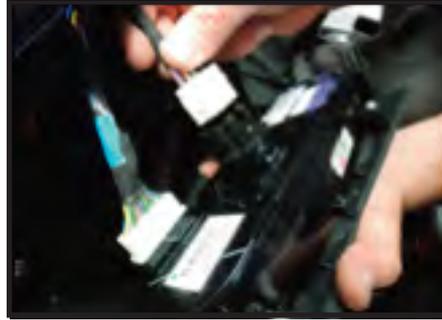
2. Plug the OEM button panel harness into the back of the OEM button panel



3. Make sure all the cables are tucked away neatly before securing into place.



4. Rest the unit in place, test all features first and then gently push fascia panel back into position



5. Plug the OEM Air conditioning control harnesses into the back of the air conditioning control panel



6. Gently push air conditioning controls back in.



7. Reposition Glove Box

Steering Wheel Controls

Follow these steps to program in your steering wheel controls

- Go to main menu
- Touch setup
- Once in the settings menu, touch setup again
- Scroll down until you see SWC setup
- Simply filter through the different steering wheel controls on the screen and follow the prompts.

Example:

Press the **(volume down)** icon on the screen and then press your **(volume down)** button on your steering wheel to activate.

Continue this process until you have activated all of the steering wheel controls.

Please note: The voice recognition steering wheel control will now bring up the Bluetooth feature.