NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for property trained technicians; a certain level of skill & knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.
<table>
<thead>
<tr>
<th>SWI - 1</th>
<th>SWI - 2</th>
<th>SWI - 3</th>
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<tbody>
<tr>
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**VEHICLE INFORMATION**

- **MAKE**
- **MODEL**
- **YEAR**
- **TRIM / PACKAGE**
- **VIN**

**NOTES**

Maestro SW module can support 2 SWI wires.
Maestro RR module supports 3 SWI wires.
## Required Tools

<table>
<thead>
<tr>
<th>Multi-meter</th>
<th>Flat blade screwdriver</th>
<th>Philips screwdriver</th>
<th>Torx screwdriver</th>
<th>Allen Key</th>
<th>Socket, ratchet &amp; extension</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Multi-meter" /></td>
<td><img src="image2.png" alt="Flat blade screwdriver" /></td>
<td><img src="image3.png" alt="Philips screwdriver" /></td>
<td><img src="image4.png" alt="Torx screwdriver" /></td>
<td><img src="image5.png" alt="Allen Key" /></td>
<td><img src="image6.png" alt="Socket, ratchet &amp; extension" /></td>
</tr>
</tbody>
</table>

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<tr>
<th>Panel popper tool</th>
<th>Soldering iron and solder</th>
<th>Cutters</th>
<th>Razor knife</th>
<th>Zip ties</th>
<th>Electrical tape</th>
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<tbody>
<tr>
<td><img src="image7.png" alt="Panel popper tool" /></td>
<td><img src="image8.png" alt="Soldering iron and solder" /></td>
<td><img src="image9.png" alt="Cutters" /></td>
<td><img src="image10.png" alt="Razor knife" /></td>
<td><img src="image11.png" alt="Zip ties" /></td>
<td><img src="image12.png" alt="Electrical tape" /></td>
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</tbody>
</table>
Radio Wiring (Identifying/Gathering information)

01 Pull out the radio. Do not disconnect harnesses!

02 Turn key to ACC position

03 Turn the radio ON. Set volume to medium.

04 Turn the parking lights ON.

05 Set the dashboard illumination dimmer to a medium lighting intensity.

06 Set DMM (Digital Multimeter) to DC volts. Connect red probe at input terminal for voltage and resistance. Connect black probe at common (return) terminal.

07 Apply RED DMM probe tip to 12V(+).

08 Apply BLACK DMM probe tip to Ground(-).

09 Apply BLACK DMM probe tip to a first wire of the radio.

10 When DMM displays an approximative reading of 12V(+), apply a BROWN SWIF label on the wire. [Voltage must be stable and not fluctuate to the sound of music.]

11 Repeat steps 09 and 10 until all radio wires have been tested.

12 Turn key to OFF position and remove key from ignition switch.

13 Turn the parking lights OFF.

14 Disconnect the radio harnesses.

15 Continue to apply RED DMM probe tip to 12V(+).

16 Apply BLACK probe tip to each wire with a BROWN SWIF label. Look for wires that read approximately 12V(+).

17 Remove the BROWN SWIF label from all wires that read approximately 12V(+).

18 Remove RED DMM probe tip from 12V(+).
19. Set DMM to OHMS. To get an accurate reading: use auto-range or set the scale at 20k and if reading is less than 2k, scale down to 2k.

20. Ensure the probes are connected as shown: Red probe at input terminal for voltage and resistance, black probe at common (return) terminal.

21. Apply BLACK DMM probe tip to a first wire with a BROWN SWI F label.

22. Apply RED DMM probe tip to a first wire of the radio.

23. Press and hold for 3 seconds each steering wheel button, 1 at a time. When releasing button, look for a change of resistance on the DMM.

24. When DMM displays a change of resistance apply a PINK SWI label on the wire.

25. Record in section A the color and location of the signal wire. [Wire with a PINK SWI label.]

26. Record in section B the color and location of the feed wire. [Wire with a BROWN SWI F label.]

27. Record in section C the names of steering wheel buttons linked to the signal wire. [Buttons that provided a change of resistance when pressed and released].

28. Repeat steps 21 through 27 until all steering wheel buttons are linked to a signal and a feed wire.

29. If not all steering wheel buttons are linked, further testing is required (step 40).

30. Make sure that DMM is set to OHMS.

31. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to linked feed wire [BROWN label].

32. Measure resistance value between feed wire and signal wire.

33. Record resistance at idle value in section A.

34. Repeat steps 31 through 33 for each signal wire.

35. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to linked feed wire [BROWN label].

36. One at a time, press and hold each steering wheel button linked to that signal wire.
For each button, measure resistance value.
(Wait for a stable reading.)

For each button, record resistance value in section C.

Repeat steps 35 through 38 for each signal wire.

If some steering wheel buttons are still not linked to a signal wire, complete External module wiring (Identifying/Gathering Information) section.

Go to: www.idatalink/(link to be determined)

Fill the fields with the informations collected and follow the instructions. (to be determined)
External module Wiring (Identifying/Gathering information)

01 Locate external module (ex. Bluetooth or navigation module).
02 Set DMM to OHMS.
03 Apply BLACK DMM probe tip to Ground(-).
04 Apply RED DMM probe tip to a first wire of the external module connector.
05 Press and hold for 3 seconds, each steering wheel button that is not already linked, 1 at a time. When releasing button, look for a change of resistance on the DMM.
06 When DMM displays a change of resistance apply a PINK SWI label on the wire.
07 Record in section A the color and location of the signal wire. (Wire with a PINK SWI label.)
08 Record in section C the names of steering wheel buttons linked to the signal wire. (Buttons that provided a change of resistance when pressed and released.)
09 Repeat steps 04 through 08 until each steering wheel button is linked to a signal wire.
10 Disconnect the module.
11 Apply RED DMM probe tip to a first wire with a PINK SWI label.
12 Press and hold for 3 seconds, each steering wheel button linked to the wire, 1 at a time. When releasing button, look for a change of resistance on the DMM.
13 If there is a change of resistance: Go to step 30.
If there is NO change of resistance: Go to next step.
14 Apply BLACK DMM probe tip to a first wire with a PINK SWI label.
15 Apply RED DMM probe tip to a first wire of the radio.
16 Press and hold for 3 seconds each steering wheel button linked to the wire, 1 at a time. When releasing button, look for a change of resistance on the DMM.
17 When DMM displays a change of resistance apply a BROWN SWI F label on the wire.
18 Record in section B the color and location of the feed wire. (Wire with a BROWN SWI F label.)
19 Locate external module (ex. Bluetooth or navigation module).
20 Set DMM to OHMS.
21 Apply BLACK DMM probe tip to Ground(-).
22 Apply RED DMM probe tip to a first wire of the external module connector.
23 Press and hold for 3 seconds, each steering wheel button that is not already linked, 1 at a time. When releasing button, look for a change of resistance on the DMM.
24 When DMM displays a change of resistance apply a PINK SWI label on the wire.
25 Record in section A the color and location of the signal wire. (Wire with a PINK SWI label.)
26 Record in section C the names of steering wheel buttons linked to the signal wire. (Buttons that provided a change of resistance when pressed and released.)
27 Repeat steps 04 through 08 until each steering wheel button is linked to a signal wire.
28 Disconnect the module.
29 Apply RED DMM probe tip to a first wire with a PINK SWI label.
30 Press and hold for 3 seconds, each steering wheel button linked to the wire, 1 at a time. When releasing button, look for a change of resistance on the DMM.
31 When DMM displays a change of resistance apply a BROWN SWI F label on the wire.
32 Record in section B the color and location of the feed wire. (Wire with a BROWN SWI F label.)
19. Repeat steps 14 through 18 for every signal wire (with a PINK SWI tag.)

20. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to linked feed wire [BROWN label].

21. Measure resistance value between feed wire and signal wire.

22. Record resistance at idle value in section A.

23. Repeat steps 20 through 22 for each signal wire.

24. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to linked feed wire [BROWN label].

25. One at a time, press and hold each steering wheel button linked to that signal wire.

26. For each button, measure resistance value. [Wait for a stable reading.]

27. For each button, record resistance value in section C.

28. Repeat steps 24 through 27 for each signal wire.


30. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to Ground [-].

31. Measure resistance value between ground and signal wire.

32. Record resistance at idle value in section A.

33. Repeat steps 30 through 32 for every signal wire (with a PINK SWI tag.)

34. Apply RED DMM probe tip to first signal wire [PINK label]. Apply BLACK DMM probe tip to Ground [-].

35. One at a time, press and hold each steering wheel button linked to that signal wire.

36. For each button, measure resistance value. [Wait for a stable reading.]
37 For each button, record resistance value in section C.

38 Repeat steps 34 through 37 for each signal wire.

39 Go to step 41 in Radio wire testing procedure section.