The information we have on a

1995 - 1999 BMW All Other Models

has been generated below.

1. Quick description before we start wiring the SWI-RC.

Info that follows is for option : All series

The SWI-RC's wire color we are going to use is Yellow. This is the Yellow wire on the SWI-RC, not the vehicle! The other wires on the SWI-RC, green, white, orange and blue wires are not used for your BMW All Other Models.

This leaves you with a Red, Black and two loop wires. These wires will be discussed down below.

2. Picture of the BMW All Other Models plug.

![Diagram of BMW17 connector](image)

The vehicle's factory harness connector is viewed from the pin side not wire side.

3. Connecting the SWI-RC's steering wheel control input wire to vehicle plug.
• Read the note in the chart below.
• Note what color wire is in pin 7 and find it at the steering wheel column.

### Note #4

You must find the wire at the steering wheel column. Cut wire in half. Connect the INTERFACE's Yellow wire to the steering wheel side of the cut wire. Insulate remaining cut wire. The Voice and "R/T" buttons are NOT programmable and you should wait 15 seconds after key is turned on to start the button mapping.

### 4. Connecting power and ground wires.

Black wire: Connect the SWI-RC's black wire to chassis ground. This is usually a black wire on the aftermarket wire kit.

Red wire: Connect the SWI-RC's red wire to a switched +12volt wire. This is usually a red wire on the aftermarket wire kit.

### 5. Instructions for cutting or not cutting loop wires.

Step A: The purple loop wire does not need to be cut.(unless stated different previously)

Step B: The brown loop wire does not need to be cut.(unless stated different previously)

### 6. Setting the Radio Select Rotary Switch

The rotary switch needs to be set to the proper position shown below

<table>
<thead>
<tr>
<th>Alpine</th>
<th>Blaupunkt</th>
<th>Clarion/Nakamichi</th>
<th>Fusion</th>
<th>JVC</th>
<th>Kenwood</th>
<th>OEM</th>
<th>Pioneer/Sony/Other</th>
<th>Valor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>4</td>
<td>9</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

*Other = Advent, BOYO, Dual, Jensen, Lightning Audio, Rockford Fosgate, Visteon

Please note that it is very important to set the radio select switch before turning on the ignition to begin programming!

### 7. Programming the SWI-RC with a version number.

The SWI-RC has to be programmed for version # 5.

1. Press and hold the Program Button on the SWI-RC while turning on the vehicle to the accessory position. The LED will turn on.

2. Release the Program Button and the LED will turn off.
3. Press the Program Button 5 times. Each time you press and release the Program Button, the LED will turn on and off. Once you press the Program Button 5 times, wait or 3 seconds. The LED will flash 5 times indicating it is programmed for version 5. If it flashes the wrong version number, you will have to start all over at step 1 above in this section. Turn the key off.

4. Once you have programmed the correct version number, you will not have to do these steps again. If you need to reprogram the steering wheel control, you can go directly to the next section.

8. Programming the SWI-RC to learn steering wheel control functions.

1. Turn the key to the accessory position (you do not need to hold the Program Button at this time). The LED will flash 5 times. This indicates it is programmed for version 5.

2. Press the Program Button until the LED turns on, then release the button (This will erase all previous learned steering wheel control functions). The SWI-RC is now ready to learn a command from the steering wheel.

3. The SWI-RC must be programmed in the specific order shown in the chart below. If a function is not needed, it may be skipped.

<table>
<thead>
<tr>
<th>Radio</th>
<th>Alpine</th>
<th>JVC</th>
<th>Kenwood</th>
<th>Clarion/Nakamichi</th>
<th>Other</th>
<th>Sony</th>
<th>Pioneer</th>
<th>Fusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
<td>Volume +</td>
</tr>
<tr>
<td>3</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
<td>Mute</td>
</tr>
<tr>
<td>4</td>
<td>Preset +</td>
<td>Source</td>
<td>Source</td>
<td>Source</td>
<td>Source</td>
<td>Preset +</td>
<td>Preset +</td>
<td>Preset +</td>
</tr>
<tr>
<td>5</td>
<td>Preset -</td>
<td>Track +</td>
<td>Track +</td>
<td>Track +</td>
<td>Track +</td>
<td>Preset -</td>
<td>Preset -</td>
<td>Track +</td>
</tr>
<tr>
<td>6</td>
<td>Source</td>
<td>Track -</td>
<td>Track -</td>
<td>Search -</td>
<td>Source</td>
<td>Source</td>
<td>Source</td>
<td>Track -</td>
</tr>
<tr>
<td>7</td>
<td>Track +</td>
<td>Band/Disc +</td>
<td>Track +</td>
<td>Band</td>
<td>Track +</td>
<td>Track +</td>
<td>Track +</td>
<td>Audio</td>
</tr>
<tr>
<td>8</td>
<td>Track -</td>
<td>Preset/Disc +</td>
<td>Disc/FM +</td>
<td>Send/End</td>
<td>Track -</td>
<td>Track -</td>
<td>Track -</td>
<td>Power</td>
</tr>
<tr>
<td>9</td>
<td>Power</td>
<td>Select</td>
<td>Disc/AM -</td>
<td>Send</td>
<td>Band</td>
<td>Band</td>
<td>Band</td>
<td>Band</td>
</tr>
<tr>
<td>10</td>
<td>Enter/Play</td>
<td>Attenuation</td>
<td>Answer</td>
<td>End</td>
<td>Answer</td>
<td>Reject Call/Source</td>
<td>Phone Menu</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Band/Program</td>
<td>Phone Receive</td>
<td>Voice Dial</td>
<td>End</td>
<td>Skip</td>
<td>Answer Call</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Receive</td>
<td>Phone Reject</td>
<td>On Hook</td>
<td>PTT</td>
<td>Skip</td>
<td>End Call</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>End</td>
<td>Voice Dial</td>
<td>Off Hook</td>
<td>Skip</td>
<td>Skip</td>
<td>Voice Activation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Voice Activation</td>
<td>Power</td>
<td>Mute (Multimedia units only)</td>
<td>Answer</td>
<td>Answer/End Call</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* - Advent, Boyo, Dual, Lightning Audio, Jensen, Rockford Fosgate & Visteon

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4. With the LED on, press your steering wheel button until the light goes out and hold for one second more.

5. Release and the LED should come back on. If it does not please double check all connections and verify for correct version programming.

6. Repeat step 4 and 5 to program additional steering wheel buttons in the order corresponding to the chart above for your SWI interface.

7. If you come across a command in the chart that your steering wheel does not have, or you do not want to program, press the Program Button on the side of the SWI interface.

8. The LED will flash once rapidly and then stay on confirming that you have successfully skipped that command and are ready for the next button.

9. When you are done programming all the buttons, wait for about 7 seconds. The LED will flash 3 times indicating it is done programming. The LED will then flash 5 times indicating the version number.

**9. Testing the SWI-RC.**

1. Connect the plug to back of radio's steering wheel input jack or harness.

2. With the vehicle on, press a steering wheel button to control the stereo. The SWI-RC should control the aftermarket stereo with the function you taught it. Test all other buttons.

3. If the interface does not control the radio as the steering wheel indicates, the buttons were either pressed in the wrong order or a step was not skipped properly. Return to category 7 and reprogram.

4. Make sure all unused wires are isolated separately.

5. After all commands are verified to work properly, secure the SWI interface so that tension will not pull either of the connectors loose or apart.

6. That's it! Enjoy!