



Pacific Accessory Corporation

ASWI-X Universal Steering Wheel Control Interface

Installation Instructions

Before You Start

**A. Is this product compatible with the vehicle?**

- See **Appendix A - Known Incompatible Vehicles** (page 5) and **Appendix E - Identification and Connection Chart** (pages 6-7) to see if your vehicle is listed. If not, check www.pac-audio.com for an updated list of compatible vehicles.

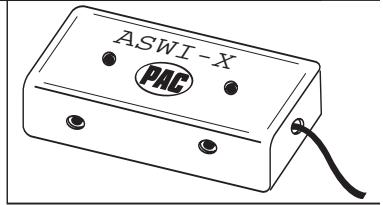
**B. Is this product compatible with the head unit?**

- Ensure that the new head unit is capable of being operated with a remote control, and that it responds to the remote control provided with it.
- The head unit must accept a remote control with the common carrier frequency range of 38 – 40Khz in order to work with the SWI-X.

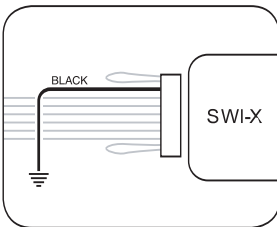
Note: Certain head units will not work with the SWI-X. See **Appendix B - Known Incompatible Aftermarket Head Units** (page 5).

**C. Prepare for the installation.**

- If possible, install the SWI-X while you are installing the new head unit. Keep in mind you may need to plug in the factory stereo to locate certain wires; therefore do not complete the head unit installation until the SWI-X is working properly.
- Plan a general installation location for both the SWI-X LED and the control body. Keep in mind that the supplied wire harness is **two feet long**, and the IR harness is **four feet long**.
- Use a multimeter or approved measuring device for checking vehicle circuits.

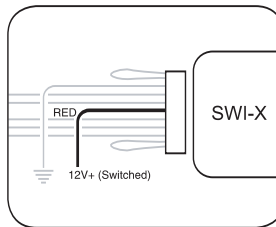


Wiring Connections

**Step 1.**

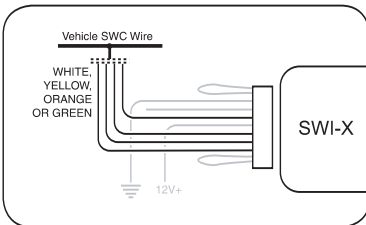
Connect the BLACK wire to ground (-).

Verification: Wire or location registers a constant (-) when probed.

**Step 2.**

Connect the RED wire to switched +12V.

Verification: Wire registers +12V when the ignition key is turned to the ACC or ON positions.

**Step 3.**

Connect the appropriate interface wire (WHITE, YELLOW, ORANGE or GREEN).

- Refer to the **Appendix E - Identification and Connection Chart** (pages 6-7). Locate the vehicle and note the SWC wire color in the "Interface Wire Color" column.
- Note the vehicle wire color and location information in the "Identification" column.

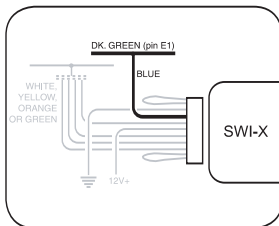
Note: You will only connect ONE of these wires. Cut and insulate the unused wires.

- Connect the wire as indicated.

Wiring Connections (cont.)

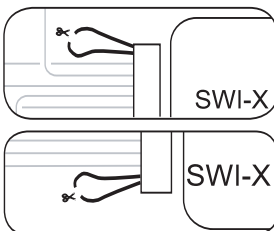
Step 4

If necessary, perform the following operations as indicated by the notes in **Appendix E - Identification and Connection Chart** (pages 6-7). If no connections are necessary, proceed to Step 5.



Step 4a.

If necessary, connect the BLUE serial data wire. Connect this wire **ONLY** on GM passenger vehicles (no trucks or SUVs) with airbags AND steering wheel heater controls. For all other vehicles, cut and insulate the BLUE wire.



Step 4b.

If necessary, cut the BROWN wire loop and insulate both halves.

Step 4c.

If necessary, either cut the VIOLET wire loop and insulate both halves, or place a resistor in-line if directed.

Programming the ASWI-X to Work With the Vehicle

IMPORTANT! Some steps of the programming instructions must be completed within a certain number of seconds following the previous step. Review the complete instruction before beginning the programming sequence.

Step 5.

Refer to **Appendix C - Head Units That Require IR Extended Mode On** (page 5) and **Appendix E - Identification and Connection Chart** (pages 6-7). Note the **IR Extended Mode Setting** and **Version Number** next to the selected vehicle. Fill in the information below for quick reference.

IR Extended Mode Setting: _____

Version Number: _____



Step 6.

Press and hold programming/mode button on SWI-X. Turn the vehicle ignition to the ON position.



Both LEDs on SWI-X will light.



Step 7.

Release the programming/mode button.



Both LEDs will turn off, indicating memory is cleared, then turn on again for **only 3 seconds**.



Step 8.

To turn IR Extended Mode ON: Press and release the programming button **within 3 seconds**.
To leave IR Extended Mode OFF: Do nothing for 3 seconds.



Both LEDs will turn off.

Note: To change IR Extended Mode later, restart procedure at Step 6. Steps 11-24 (learning radio commands) must also be repeated.



Step 9.

Press and release the programming/mode button the same number of times as the desired version number.



LEDs will flash each time the button is pressed.



After 3 seconds, LEDs will flash to indicate set version number.
Left LED: 10's place
Right LED: 1's place



Step 10.

Turn vehicle ignition to OFF position. Programming sequence is complete.

Programming the ASWI-X to Control the Head Unit

IMPORTANT! Some steps of the programming instructions **must be completed within a certain number of seconds following the previous step**. Review the complete instruction before beginning the programming sequence.



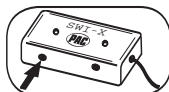
Step 11.

Turn the vehicle ignition to the ON position.



LEDs will flash to indicate set version number. Left LED: 10's place
Right LED: 1's place

If the desired version number is 4, proceed with the following steps. **If not, skip to Step 18.**



Step 12.

Press and hold programming/mode button on SWI-X.

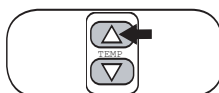


Left LED will light.



Step 13.

Release programming/mode button.

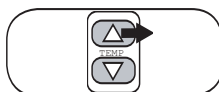


Step 14.

Press and hold the TEMP UP button on the steering wheel control.



Left LED will turn off.



Step 15.

Release the TEMP UP button.



Left LED will turn on. The function is programmed.

Step 16.

Repeat Steps 14 and 15, using the TEMP DOWN Button.

Step 17a.

If the vehicle is equipped with FAN UP and FAN DOWN buttons:

Repeat Steps 14 and 15 for these buttons as well.

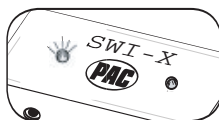


Step 17b.

If the vehicle is NOT equipped with FAN UP and FAN DOWN buttons:



Press and release the programming/mode button on the SWI-X.



In either case, left LED will flash once and stay on. **Skip to Step 20.** You have 7 seconds to perform the next step.



Step 18.

Press and hold programming/mode button on SWI-X.

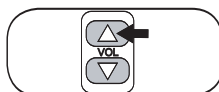


Left LED will light.



Step 19.

Release programming/mode button.



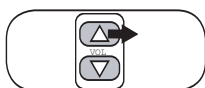
Step 20.

Within 7 seconds, press and hold the VOLUME UP button on the steering wheel control.



Left LED will turn off.

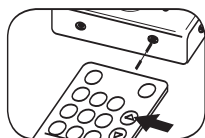
Programming the ASWI-X to Control the Head Unit (cont.)



Step 21.
Release the VOLUME UP button.



Right LED will turn on.



Step 22.
Hold the IR emitter on the head unit's remote control within 3 to 4 inches of the IR Input on the SWI-X. Press and hold the VOLUME UP button on the remote control.



Right LED will turn off.



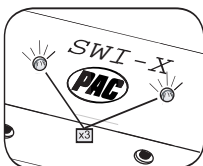
Step 23.
Release the VOLUME UP button on the remote control.



Left LED will turn on.
The function is programmed.

Step 24.

Repeat steps 20 - 23 for each audio function on the steering wheel control. Press the corresponding function on the head unit's remote control. **Wait no more than 7 seconds between programming each function**, or the SWI-X will exit the programming mode and the procedure must be restarted (Step 11).

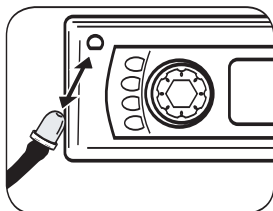


Once programming is completed, LEDs will flash three times after 7 seconds. The interface will then flash the version #.

Note: If the steering wheel control has a function that the head unit remote control does not have, you can program the steering wheel function to operate any other command on the head unit remote control.

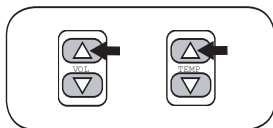
Testing the SWI-X

Hold the SWI-X infrared emitter (clear blue light at the end of the four-foot wire) close to the head unit and test each function of the steering wheel controls. The right LED on the SWI-X will flash indicating it is sending an IR command when each button on the steering wheel is pressed. If any function does not work, repeat the programming instructions (starting from Step 11) or refer to **Appendix F - Troubleshooting Guide** (page 8).



Final Installation

Mount the SWI-X infrared emitter within line of sight of the head unit, testing continuously to ensure that it will operate from the chosen position. Install using the supplied bezel, installing the bezel and mounting the emitter from behind. Complete the head unit and SWI-X module installation.



Appendix A: Known Incompatible Vehicles

Vehicle Make(s)	Year(s)	Model(s)
BMW	All	All with factory-activated cellular phones
	2002-2003	All with 5-volt SWC data wire at the steering column
Mercedes-Benz	All	5-Series w/navigation
Toyota	All-2003	Sienna
Volkswagen	2002-up	All vehicles

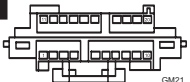

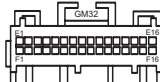
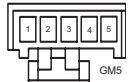


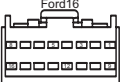
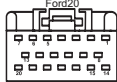
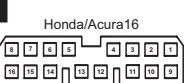

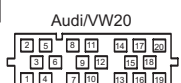

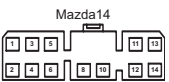
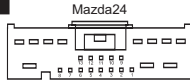
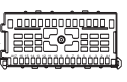

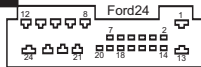

Appendix B: Known Incompatible Aftermarket Head Units

Head Unit Make(s)	Model(s)
Sony (or any Sony with HIR remotes: ex. RM-X110, 112 and 131)	MEX-5DI / MEX-1HD / CDX-M850MP / CDX-M3DI CDX-MP70 / CDX-MP80 / CDX-CA900X / CDX-M730 / CDX-M770 / CDX-M620 / CDX-M670 / CDX-M800 / CDX-M8800 / CDX-M8805X / CDX-M9905X / CDX-CA850X / CDX-CA860X
Denon	Unknown
Delphi	XM SKYFI / (Ready - unknown at this time)
Tek	XM Commander

Appendix C: Head Units That Require IR Extended Mode On

Head Unit Make(s)	Model(s)
Pioneer	AVX-P7300DVD / AVXP7000CD / AVXP7000 / AVMP700R AVMP800R / AVMP900R / GEXP7000TV
Rockford Fosgate	All Head Units

Appendix D: Vehicle Connector Chart

A  GM21	B  GM24	C  GM32	D  GM5
E  GM7	F  Ford2 1 2	G  Ford16	H  Ford20
I  Honda/Acura16	J  Honda/Acura20	K  Audi/VW20	L  BMW17
M  Mazda14	N  Mazda24	O  TB_Brav_Env <small>This plug is the main ignition harness at steering wheel column.</small>	P  <small>BMW 620i/620iD BMW 620i/620iD This plug is the main ignition harness at steering wheel column. In some vehicles, middle connector may be required.</small>
Q  Ford24	R  ????? <small>Caution! This is not the main power plug.</small>		

Note: All connector views are shown from radio side (not wire side) except O and P connectors. Photos taken of O and P connectors can be seen on our website.

Appendix E: Identification and Connection Chart

Domestic Vehicles

Vehicle			Interface Wire Color To Be Used
Make(s)	Year(s)	Model(s)	
GMC / Chevrolet / Oldsmobile Pontiac / Buick / Hummer	1992-2002	All with air bag, without heater controls.	Green
	2003-2005	Century	
	2004	Alero / Grand Prix / Grand AM / Regal / Silhouette, Impala	
	2003-2004	Rendezvous	
	2004	Malibu	
	2000-2004	Bonneville	
		Other make GM vehicles that have ribbon like connector that stays in the dash.	
	1992-2002	All with air bag, with heater controls	
	2003-2005	Park Avenue	
	2002-2003	Trail Blazer / Bravada / Envoy (rear controls not supported)	
Trucks and SUV's ->	2003	SSR	White
	2003-2004	All other full size trucks, SUV's and H2 (rear controls not supported)	
	2004	GTO	
	1989-93	Pontiac / Olds / Buick, no air bag, except '89 GTA / Firebird	
	1987-88	Pontiac, no air bag, and '89 GTA/Firebird	
		Catera	
	1998-2001	Escalade	
	1999-2002	Escalade	
	2003-2004	Escalade (rear controls not supported)	
	2003	Deville	
Cadillac	1992-2002	All other models with heater controls	Green
	1992-2002	All other models without heater controls	
Chrysler / Dodge / Jeep	1992-1998	All Chrysler, Dodge, Jeep and Plymouth models	Green
	1991-1996	Stealth	Yellow
	2001-2004	300M (nothing for 300 or 300C)	White
	1999-2000	Caravan, Voyager, Town & Country	
	2001-2005	Caravan, Voyager, Town & Country	
	2001-2004	Concorde	
	1999-2005	Dakota	
	1999-2003	Durango	
	2004-2005	Durango	
	1999-2004	Grand Cherokee	
	2005	Grand Cherokee	
	2001-2004	Intrepid	
	2002-2005	Liberty	
	2004-2005	Pacifica	
	1999-2002	Prowler	
	1999-2002	Ram	
	2003-2005	Ram	
	2004-2005	Sebring / Stratus Convertible and Sedan	
	2002-2004	Sebring / Stratus Coupe	
Ford / Lincoln / Mercury	1996-97	Aerostar	Yellow
	1994-96	Econoline	
	1992-95	Taurus / Sable (with dash mount controls)	
	1993-98	Windstar / Villager	
	1995-97	Explorer	
	1997-98	Navigator	Orange
	1996-97	Town Car / Grand Marquis	
	2004	Excursion, Expedition, F150, Freestar, Monterey	
	2003	Aviator, Marauder	
	1998-2002	Continental / Crown Victoria	
	1998-2002	Town Car / Grand Marquis	White
	2000-2002	Lincoln LS	
	2002	Focus	
	2002	Thunderbird	
	1999-2002	Windstar / Villager	
	1999-2003	Expedition / Navigator - front controls	
	1998-2004	Explorer / Mountaineer - front controls	White
	1998-2003	Expedition / Excursion - front controls	
	1999-2003	Expedition / Navigator - rear controls	
	1998-2004	Explorer / Mountaineer - rear controls	
2 SWI-X units required for these models (1 for front controls, 1 for rear controls)	1998-2003	Expedition / Excursion - rear controls	Orange
Harley Davidson Motorcycle	All	All	White

Please note as of 9-21-04, these instructions will not be update with new vehicle information. Please use our online application / instruction guide on our website at www.pac-audio.com/swixprogramming for new information.

Vehicle Wire		Cut Loops		Version	
Connector (see diagrams on page 5)	Identification	Violet?	Brown?	Number	
A, B, or C (some '90 - '94 vehicles) plug	If A: Pin 13 or 14 (Dk. Blue, Lt. Green or Violet/Black) - see Note 1 (below) If B: Pin A7 (Blue or Green) (Also connect Pin A6 (Pink or Violet) to ACC +12V - disconnect from factory radio) If C: Pin E5 or E6 (Dk. Blue or Lt. Green)	No	No	1	
C	Pin B4 (Lt. Green). (Also connect Pin A9 (Blue) to ACC +12V)		Yes		
40-pin plug right of st. column	Tap into Pin D8 (Dk. Blue or Lt. Green)				
C	Pin E5 or E6 (Lt. Green) (Also connect SWI-X Blue to pin E1 (Dk. Green))		No	4	
O (steering wheel column)	Tap into pin A12 (Lt. Green)		Yes	1	
P (steering wheel column)	Tap into Pin B31 (Lt. Green)				
K	Pin C11(Brown) (Also connect Pin C12 (Black/Yellow) to chassis ground)		No	3	
E or 15-pin plug	Pin 6 or 7 (Green)			10	
D	Pin 1 (Orange/Black)			7	
C	Blue/Red			3	
A	Pin 13 or 14 (Dk. Blue, Lt. Green or Violet/Black) - see Note 1 (below)	No	No	1	
P	Tap into Pin B31 (Lt. Green)		Yes		
40-pin plug right of st. column	Tap into Pin D8 (Dk. Blue or Lt. Green)				
40-pin plug left of st. column	Note: Lt. Green wire may also be in a 4 pin plug.		No		
White Plug at steering wheel column (not at radio) - remove cover around key cylinder	Black/Orange - see Note 2 (below)	No	No	2	
6-pin plug behind radio	Yellow/ White			5	
White or Gray plug at steering column (not at radio) - remove cover around key cylinder	Gray/White - see Note 3 (below)			8	
	Red/Black - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Red/Black (except 2001 & 2005 Gray/White wire) - see Note 3 (below)				
	Red/Black (except 2001 Gray/White wire) - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Red/Yellow - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Red/Blue - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Red/Blue - see Note 3 (below)				
	Red/Black - see Note 3 (below)				
	Gray/White - see Note 3 (below)				
	Black/Red - see Note 3 (below)				
2 pin plug behind radio	Green/Orange (Also Connect Green/Black to ground)				
F	Pin 2 (Tan, Pink/White, Lt. Blue/Red or Lt. Blue/Black)			No	No
G	Pin 12 or 16 (Lt. Blue/Pink) (Also connect Lt. Green/Black (Pin 3 or 5) to ACC +12V)	6			
Q	Pin 18 (Lt. Blue/Red)	3			
H	Pin 14 or 15 (Lt. Blue/Red)				
	Pin 14 or 15 (Lt. Blue/Red or White/Black)				
	Pin 14 (White/Black) (Also connect Brown/Yellow to ground)				
	Pin 14 (White/Black)				
	Pin 14 or 15 (Lt. Blue/Red, Yellow or White/Black)				
	Pin 14 or 15 (Lt. Blue/Red, Yellow or White/Black)				
	Pin 6 (Also connect Pin 5 to ACC +12V)	6			
	Download diagrams or have them faxed	No	No	3	

Import Vehicles

Make(s)	Vehicle		Interface Wire
	Year(s)	Model(s)	Color To Be Used
Acura / Honda	2000-2004	S2000	White
	2003-2004	Accord	
	All	All except S2000	
Audi	2000	A6	Orange
BMW / MINI	1997-1999	All	Yellow
	2000-2001	All BMW	
	2002-2003	All BMW	
	2003-2004	MINI Cooper S	
Jaguar	1999	XJR / XK8	White
	2000-2001	S Type	
	2002	X Type	
KIA	2003	Sorento	White
	2004	Amanti	White
Lexus	2004	LX / GX / RX330	White
Mazda	All	All	White
		Millenia	
Mitsubishi	2002-2003	Eclipse	White
	2001-2002	Diamante	Yellow
	1985	Starion / Conquest	
	All-2001	All other models	
Nissan / Infiniti	2002-2003	Maxima / Pathfinder	White
	2002-2004	Altima	
	2002-2003	QX4	
	2003	G35	
	2000-2002	Xterra, Frontier	
	2000-2001	Maxima/Pathfinder	
	All-2001	All other models except Quest	
	All	300ZX	
	1999-2000	Quest	
	1993-95	Quest	
Land Rover	2002	Freelander	White
	1997-1999	Range Rover	
	2000	Range Rover	
	2003	Range Rover	Yellow
	All	All other models	White
Saab	1992-2003	9-3, 9-5, 900, 9000	White
Toyota	2003	4Runner / Land Cruiser / Sequoia / Tundra	White
	2004	4Runner / Land Cruiser / Highlander / RAV4 / Sequoia / Sienna / Solara / Tundra	
Volkswagen	2001	Jetta / Passat / Golf / GTI	Orange

Note 1:

If vehicle has rear controls and need to be retained with front controls, connect both pins **13** and **14** to the INTERFACE **Green** wire, and connect pin **12 (Pink or Violet)** to ACC +12V.

Note 2:

Cut the indicated wire. Connect the INTERFACE **Green or Yellow** wire to the switch side of the wire. Insulate the radio side.

Note 3:

Verify the wire by checking for +5V at rest; 0-5V when a button is pressed. Cut the wire (except when noted in above chart). Connect the INTERFACE **White** wire to the switch side of the wire. Insulate the radio side.

Note 4:

To connect mute function: Using a 12V SPST or SPDT relay, tap into pin **14 (Blue/Yellow)** and connect to pin **85**. Connect pins **86** and **87** to ground. Connect pin **30** to the mute input of the new head unit. Connect a 3.6k to 4k ohm resistor across the white and black wire of the INTERFACE.

Note 5:

Tracing the wire from pin **7** of radio plug (color may vary), cut the wire at the steering column. Connect the INTERFACE **Yellow** wire to the switch side. Insulate the radio side. Colors known: White/Red/yellow-dots or White/Gray/Yellow-dots. *Wait 15 seconds after turning key to accessory position before going into radio programming.*

Connector (see diagrams on page 5)	Vehicle Wire	Cut Loops		Version Number
	Pin# and wire color Identification (if available)	Violet?	Brown?	
J	Pin 3 - see Note 4 (below)	No	No	3
J	Pin 3 - see Note 7 (below)			
I or J	If I: Pin 12 (White/Blue) If J: Pin 3 (Green/Red)			
K	Pin 11 (White/Yellow)	No	No	7
L	Pin 7 or see Note 5	No	No	5
At steering column	Pin 7 - see Note 5 (below) and Appendix A (page 5)			
	see Note 5 (below)			
	White/Red/Yellow Dots - see Note 2 (below)	Yes	No	9
20-pin plug behind radio	Violet/Yellow - see Note 6 (below)			
17-pin plug behind radio	White/Black			
Plug behind radio	Pin 19 (Lt. Blue/Yellow) - see Note 7 (below)			
B	Pin A6 (Red/Yellow) (Also connect Pin A7 (Black) to ground)	No	No	9
12 pin or 3 pin connector	12 pin plug - Pin 12 (Black/Orange) (Also connect Pin 6 (brown) to ground) 3pin plug - Pin 3 (Brown/Orange) (Also connect Pin 2 (purple) to ground)	No	No	8
R	see Note 10 (below)	No	No	8
M or N	If M: Pin 8 If N: Pin 9 (Gray / Blk) (Also connect Pin 10 (White / Green) to ground)	No	No	3
N	Pin 10 (Gray)			
8-pin plug behind radio	Green/Orange (Also connect Green/Black to ground)	No	No	8
6-pin plug behind radio	Lt. Green/Black			
	Lt. Green/Black (Also connect Lt. Blue/White to ACC +12V, Black to ground)			
Plug behind radio	Yellow/ White	No	No	3
	a.Blue/Yellow b.Red c.Brown / White - see Note 8 (below)			
	a. Green b.Red/White c.Blue - see Note 8 (below)			
	a.Blue/Yellow b.Grn/Blk or Red c.Brown/White - see Note 8 (below)			
	a. Green b. Red c. Yellow - see Note 8 (below)			
	Yellow/Red (Also connect Yellow/Black to ground)			
	Brown/White, Green/Black, Yellow/Red, Blue/Yellow, Red - see Note 9 (below)			
	see Note 9 (below)			
	see Note 9 (below). If with cruise control, must leave factory tuner box installed.			
H	Pin 14 (White/Black)	No	No	5
F	Pin 2 (Tan, Pink/White, Lt. Blue/Red or Lt. Blue/Black)			
Plug behind radio	Black/White (Also connect Black/Red to ground)	No	No	8
	Pin# 2 Gray/Orange	No		9
	Pin# 2 Gray/Orange (Also connect Pin# 5 Gray/Black to ground)	No		9
At steering column	Wht/Grly/yellow dots - see Note 2 (below)	No		5
Plug behind radio	Gray/Red (Also connect Gray/Black to ground)	No		8
22-pin plug above radio at driver display module	Tap into Black/Yellow	Yes	No	11
R	see Note 10 (below)	No	No	8
	see Note 10 (below)			
K	Pin 11	No	No	7

Note 6:

After cutting the **Violet** loop, insert a **1500-ohm resistor** in-line on the loop.

Note 7:

Jaguar - connect a **4900-ohm resistor** (supplied) across the INTERFACE **White** and **Black** wires.

Accord - connect a 5400-ohm resistor (supplied) across the INTERFACE **White** and **Black** wires, connect Pin# 11 brown wire to chassis ground.

Note 8:

16 pin plug: Connect the (a.) wire to a **150-ohm resistor** and the (b.) wire to a **47-ohm resistor** (both supplied). Connect the free ends of the resistors to the INTERFACE **White** wire. Connect the (c.) wire to ground.

Note 9:

Test to locate a separate wire for each button (wires will show close to 0 ohms when button is pressed). Connect one resistor (supplied) to each wire, starting with the lowest value, then connect the free ends of the resistors to the INTERFACE **White** wire. 300ZX rotary volume knob can't be interfaced, only the push buttons.

Note 10:

Connect the pin **6** wire to ground. Connect the pin **7** wire to the INTERFACE **White** wire. Connect a **150-ohm resistor** (supplied) to the pin **8** wire and connect the free end also to the INTERFACE **White** wire.

Appendix F: Troubleshooting Guide

No power / won't go into programming mode:

- Check **Red** wire connection and fuse. Make sure INTERFACE is connected to switched 12V+.
- Make sure vehicle ignition is on.

Won't program radio commands:

- Make sure version number and IR Extended mode setting are programmed before attempting to program radio commands. The right LED of the INTERFACE will flash the programmed version number when power is applied.

Steering wheel controls won't operate new head unit

- Make sure you have programmed the correct version number and IR Extended mode setting.
- Make sure you've followed the programming instructions precisely, noting each exception and time sequence. Repeat if necessary.
- Place the INTERFACE emitter within range of the new head unit.

To replace a broken IR emitter:

- Replace with standard IR emitter (i.e. Radio Shack part number 276-143). Long lead of IR emitter goes to INTERFACE's emitter **Red** wire and short lead goes to INTERFACE's black wire)

The INTERFACE controls the stereo immediately without pressing any buttons on the steering wheel:

- During programming, press the buttons on the steering wheel firmly until the left LED turns off. Releasing the button too early will cause the INTERFACE to send out a signal even when no buttons are pressed.

During programming, the right LED turns off and goes to the left LED without pressing a button on the wireless remote:

- Turn off fluorescent droplights or shop lights during programming.
- Make sure the INTERFACE's IR LED is not in direct sunlight.

The INTERFACE controls the radio whenever the steering wheel is turned (mostly late 80's early 90's Honda/Acura).

- Program the INTERFACE for version #11.

When pressing and holding down the volume button on the steering wheel, the volume or track on the radio only goes up or down by one or is very slow. May also relate to other functions.

- Depending on some vehicles, some stereos may not respond very well. Try programming the interface for 'Extended IR Mode'. This may or may not help in response from the stereo.

For mostly GM vehicles, when going into radio programming the left LED turns off and goes to the right LED without pressing the steering wheel buttons.

- If the SWC wire in the vehicle's steering wheel column is cut in half, do not cut the brown loop wire on the interface.

Notes

Please

instruction guide on our website at www.pac-audio.com/swixprogramming for new information.

Working on a new or unlisted vehicle?

We are always looking for new vehicle information. If you've successfully completed the installation on a vehicle with steering wheel controls, and the vehicle is not listed in these instructions or on our Website, contact us at techsupport@pac-audio.com so that we may add the information to the instructions.



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STEERING WHEEL INTERFACE APPLICATION GUIDE



Pacific Accessory Corporation

ASWI-X, ASWI-PS, ASWI-ALP, ASWI-ECL



*ASWI-CAN interface is also needed for this vehicle.

Make	Model	Years
Acura	All models	1999-2004
Acura	All models	1992-1998
Acura	MDX	2005
Acura	Sedona	2006
Acura	TL	2004-2006
Acura	TSX	2005
Audi	A6	2000
BMW	3 series	2002-2005
BMW	All BMW	2000-2001
BMW	All series	1997-1999
BMW	Z4	2004
Buick	All models with air bag, with heater controls. 32 pin connector	1992-2002
Buick	All models with air bag, without heater controls. 32 pin connector.	1992-2002
Buick	All models with no air bag	1989-1993
Buick	Allure	2005
Buick	Century	2003-2005
Buick	LaCrosse	2005
Buick	Lucerne	2006
Buick	Monte Carlo SS	2002
Buick	Other make GM vehicles that have ribbon like connector that stays in the dash.	!
Buick	Park Avenue	2003-2005
Buick	Rainier	2004-2005
Buick	Regal	2004
Buick	Rendezvous	2003-2005
Buick	Terraza	2005
Cadillac	All models with heater controls	1992-2002
Cadillac	All models without heater controls	1992-2002
Cadillac	Catera	1997-2001
Cadillac	CTS	2003-2004
Cadillac	Deville	2000-2005
Cadillac	Deville	1998-1999
Cadillac	Escalade	2007
Cadillac	Escalade	1999-2002
Cadillac	Escalade (rear controls not supported)	2003-2006
Cadillac	Seville	1998-2004
Chevrolet	All full size trucks, SUV's (rear controls not supported)	2003-2006
Chevrolet	All with 24 pin connector. Except SUV's and Trucks.	2000-2005
Chevrolet	All with air bag, without heater controls. 21 pin connector	1992-2002
Chevrolet	Avalanche	2007
Chevrolet	Blazer	2005
Chevrolet	Cobalt	2005-2006
Chevrolet	Colorado	2005
Chevrolet	Corvette	2007
Chevrolet	Equinox	2005
Chevrolet	HRH	2006
Chevrolet	Malibu	2004-2005
Chevrolet	Monte Carlo	2000
Chevrolet	SSR	2003-2005
Chevrolet	Suburban	2007
Chevrolet	Tahoe	2007
Chevrolet	Trail Blazer	2002-2005
Chevrolet	Uplander	2005
Chrysler	300c *	2005-2006
Chrysler	300m	2001-2004
Chrysler	All models	1992-1998

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*ASWI-CAN interface is also needed for this vehicle.

Make	Model	Years
Chrysler	Caravan, Voyager, Town & Country	1999-2000
Chrysler	Caravan, Voyager, Town & Country	2001-2005
Chrysler	Concorde	2001-2004
Chrysler	Pacifica	2004-2005
Chrysler	Prowler	2002
Chrysler	Sebring Convertible and Sedan	2004-2005
Chrysler	Sebring Coupe	2002-2005
Dodge	All models	1992-1998
Dodge	Caravan, Voyager, Town & Country	1999-2000
Dodge	Caravan, Voyager, Town & Country	2001-2005
Dodge	Charger *	2005-2006
Dodge	Dakota	1999-2005
Dodge	Durango	1999-2003
Dodge	Durango *	2004-2006
Dodge	Intrepid	2001-2004
Dodge	Magnum *	2005-2006
Dodge	Ram	2003-2005
Dodge	Ram	1999-2002
Dodge	Ram *	2006
Dodge	Stealth	1991-1996
Dodge	Stratus Convertible and Sedan	2004-2005
Dodge	Stratus Coupe	2002-2005
Ford	Aerostar	1996-1997
Ford	Blackwood	2002
Ford	Crown Victoria	1998-2002
Ford	Crown Victoria	2003-2005
Ford	Econoline	1994-1996
Ford	Excursion - front controls	2004-2005
Ford	Excursion - front controls	2002-2003
Ford	Excursion - rear controls	2002-2003
Ford	Excursion - rear controls	2001
Ford	Expedition - front controls	2003-2006
Ford	Expedition - front controls	1999-2002
Ford	Expedition - rear controls	1999-2002
Ford	Expedition - rear controls	1998
Ford	Expedition - rear controls	2003-2006
Ford	Expedition w/ Factory NAV	2006
Ford	Explorer	1998
Ford	Explorer	2006
Ford	Explorer - 20 pin plug	2004-2005
Ford	Explorer - 24 pin plug	2004-2005
Ford	Explorer - front controls	1999-2003
Ford	Explorer - rear controls	1995-1997
Ford	Explorer - rear controls	1999-2003
Ford	F-150	2003
Ford	Five Hundred	2005
Ford	Focus	2002-2004
Ford	Focus	2005-2006
Ford	Freestar	2004-2005
Ford	Freestyle	2005
Ford	F-Series	2004-2006
Ford	Fusion	2006
Ford	Taurus (with dash mount controls)	1992-1995
Ford	Thunderbird	2002-2003
Ford	Thunderbird	2004-2005
Ford	Windstar	1999-2002

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*ASWI-CAN interface is also needed for this vehicle.

Make	Model	Years
Ford	Windstar	1993-1998
GMC	All full size trucks, SUV's (rear controls not supported)	2003-2006
GMC	All models with air bag, without heater controls. 21 pin connector	1992-2002
GMC	Envoy (rear controls not supported)	2002-2006
GMC	Yukon	2007
Harley Davidson	All models	All
Honda	Accord	2003-2006
Honda	Accord Hybrid	2005-2006
Honda	All models	1998-2005
Honda	All models	1992-1997
Honda	Civic	2006
Honda	CR-V	2005-2006
Honda	Element	2005-2006
Honda	Odyssey	2005-2006
Honda	Pilot	2005-2006
Honda	Ridgeline	2005-2006
Honda	S2000	2000-2006
Hummer	H2 and H3 (Rear controls not supported)	2003-2006
Hyundai	Azera	2006
Hyundai	Entourage	2007
Hyundai	Santa Fe	2007
Hyundai	Sonata	2006
Hyundai	Tiburon	2005-2006
Infiniti	FX35/45	2003-2006
Infiniti	G35	2003-2006
Infiniti	QX4	2002-2003
Infiniti	QX4	2001
Infiniti	QX56	2004-2006
Isuzu	Ascender	2004-2005
Isuzu	Rodeo	2004
Jaguar	S Type	2000-2001
Jaguar	X Type	2002
Jaguar	XJR / XK8	1999
Jaguar	XK8	2002
Jeep	All models	1992-1998
Jeep	Grand Cherokee	1999-2004
Jeep	Grand Cherokee *	2005-2006
Jeep	Liberty	2003
Jeep	Liberty	2002
Jeep	Liberty	2004
Jeep	Liberty	2005
KIA	Amanti	2004-2006
KIA	Optima	2006
KIA	Sedona	2006
KIA	Sorento	2003-2006
Land Rover	Discovery	1995
Land Rover	Discovery	1996-1998
Land Rover	Discovery	2000-2004
Land Rover	Freelander	2002-2005
Land Rover	LR3	2005
Land Rover	Range Rover	2002-2004
Land Rover	Range Rover	1995-2001
Lexus	ES330	2005
Lexus	RX330	2004-2005
Lexus	RX350	2007
Lincoln	Aviator	2003

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***ASWI-CAN interface is also needed for this vehicle.**

Make	Model	Years
Lincoln	Aviator	2004-2005
Lincoln	Continental	1998-2002
Lincoln	LS	2000-2002
Lincoln	LS	2003-2005
Lincoln	LT	2006
Lincoln	Navigator	1998
Lincoln	Navigator	2004-2006
Lincoln	Navigator - front controls	1999-2003
Lincoln	Navigator - rear controls	1999-2003
Lincoln	Town Car	2003-2005
Lincoln	Town Car	1995-1997
Lincoln	Town Car	1998-2002
Lincoln	Zephyr	2006
Mazda	All models with 14 pin connector	All
Mazda	All models with 24 pin connector	All
Mazda	RX8	2004
Mercury	Grand Maquis	2003-2005
Mercury	Grand Marquis	1998-2002
Mercury	Grand Marquis	1996-1997
Mercury	Marauder	2003-2004
Mercury	Milan/Zephyr	2006
Mercury	Montego	2005-2006
Mercury	Monterey	2004-2005
Mercury	Mountaineer	2006
Mercury	Mountaineer	1998
Mercury	Mountaineer - 20 pin connector	2004-2005
Mercury	Mountaineer - 24 pin connector	2004-2005
Mercury	Mountaineer - front controls	1999-2003
Mercury	Mountaineer - rear controls	1999-2003
Mercury	Sable (with dash mount controls)	1992-1995
Mercury	Villager	1999-2002
Mercury	Villager	1993-1998
Mini	Cooper	2003-2005
Mitsubishi	All other models	All-2001
Mitsubishi	Conquest	1985
Mitsubishi	Diamante	2001-2002
Mitsubishi	Eclipse	2002-2006
Mitsubishi	Galant	2006
Mitsubishi	Starion	1985
Nissan	300ZX	All
Nissan	350Z	2006
Nissan	All Models	All-2001
Nissan	Altima	2002-2004
Nissan	Altima	2005-2006
Nissan	Armada	2004-2006
Nissan	Frontier	2005-2006
Nissan	Frontier	2000-2003
Nissan	Maxima	2001
Nissan	Maxima	2004-2006
Nissan	Maxima	2002-2003
Nissan	Murano	2003-2006
Nissan	Pathfinder	2005-2006
Nissan	Pathfinder	2000-2001
Nissan	Pathfinder	2002-2004
Nissan	Quest	2004-2006
Nissan	Quest	1999-2000

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***ASWI-CAN interface is also needed for this vehicle.**

Make	Model	Years
Nissan	Quest	1993-1995
Nissan	Titan	2004-2006
Nissan	Xterra	2005
Nissan	Xterra	2000-2004
Oldsmobile	Alero	2001-2004
Oldsmobile	All models with air bag, with heater controls. 32 pin connector	1992-2002
Oldsmobile	All models with air bag, without heater controls. 32 pin connector.	1992-2002
Oldsmobile	All models with no air bag	1989-1993
Oldsmobile	Bravada (rear controls not supported)	2002-2004
Oldsmobile	Other make GM vehicles that have ribbon like connector that stays in the dash.	!
Oldsmobile	Silhouette	2001-2004
Plymouth	Caravan, Voyager, Town & Country	2001-2005
Plymouth	Caravan, Voyager, Town & Country	1999-2000
Plymouth	Prowler	1999-2002
Pontiac	All models with air bag, without heater controls. 21 pin connector	1992-2002
Pontiac	All models with no air bag	1989-1993
Pontiac	Aztec	2001-2005
Pontiac	Bonneville	2000-2005
Pontiac	Firebird	1989
Pontiac	G6	2005-2006
Pontiac	Grand AM	2001-2005
Pontiac	Grand Prix	2004-2006
Pontiac	GTA	1989
Pontiac	GTO	2004-2006
Pontiac	Montana	2000-2005
Pontiac	Solstice	2006
Saab	9-3	1998-2003
Saab	9-5	2004-2005
Saab	9-5	1998-2003
Saturn	Aura	2007
Saturn	Relay	2005
Saturn	Vue	2006
Scion	tC	2006
Scion	xA	2006
Scion	xB	2006
Subaru	Legacy	2005
Suzuki	Aerio	2005
Suzuki	Forenza	2004-2005
Suzuki	Grand Vitara	2004-2005
Suzuki	Reno	2006
Suzuki	Verona	2004-2005
Suzuki	XL-7	2003-2005
Toyota	4Runner	2004-2006
Toyota	4Runner	2003
Toyota	Avalon	2006
Toyota	Camry	2007
Toyota	Camry	2005-2006
Toyota	FJ Cruiser	2007
Toyota	Highlander	2004-2006
Toyota	Land Cruiser	2003
Toyota	Land Cruiser	2004-2005
Toyota	Prius	2005-2006
Toyota	RAV4	2004-2006
Toyota	Sequoia	2003
Toyota	Sequoia	2004-2006
Toyota	Sienna	2006
Toyota	Sienna	2004-2005
Toyota	Solara	2004-2006
Toyota	Tacoma	2005-2006
Toyota	Tundra	2003
Toyota	Tundra	2004-2006
VW	Golf	2001
VW	GTI	2001
VW	Jetta	2001
VW	Passat	2001

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*ASWI-CAN interface is also needed for this vehicle.

ASWI-PS Stereo Applications

<u>Sony</u>	<u>Sony</u>	<u>Pioneer</u>	<u>Pioneer</u>
CDX-M9905X	CDX-565MXRF	AVH-P5700DVD	DEH-P2600
CDX-M9900	CDX-454RF	AVHP-6600DVD	DEH-2700
CDX-M8815X	CDX-C910	AVIC-D1	DEH-P3700MP
CDX-M8810	CDX-C90	AVIC-D2	DEH-P3800MP
CDX-M7815X	CDX-F7000	AVIC-N2	DEH-P4600MP
CDX-M7810	CDX-MP70	AVIC-N3	DEH-P460MP
CDX-F7715X	CDX-GT300	AVIC-Z1	DEH-P4700MP
CDX-F7710	CDX-GT500	DEH-P7800MP	DEH-P470MP
CDX-R5715X	CDX-RA700	DEH-P780MP	DEH-P4800MP
CDX-F5710	CDX-GT705DX	DEH-P80MP	DEH-P480MP
CDX-R5515X	CDX-GT805DX	DEH-P8600MP	DEH-P560MP
CDX-F5510	MEX-1GP	DEH-P860MP	DEH-P5800MP
CDX-F50M		DEH-P880PRS	DEH-P580MP
CDX-R30M		DEH-P8MP	DEH-P6600
WX-4500X		DEH-P9600MP	DEH-P6700MP
XR-F5100		DEH-P9600MP	DEH-P670MP
MDX-F5800		DEH-P960MP	DEH-P6800MP
		DEH-P960MP	DEH-P680MP
		DEH-P9800BT	DEH-P760MP
		DEH-P980BT	DEH-P7700MP
			DEH-P770MP

ASWI-ECL Applications

Eclipse

AVN 50D
AVN 5500
AVN 6600
AVN30D
AVN5435
CD8445
CD8455

ASWI-ALP Applications

<u>Alpine</u>	<u>JVC</u>	<u>Kenwood</u>
CDA-9851	KD-AR5500	DDX-6019
CDA-9853	KD-AR7500	DDX7017
CDA-9855	KD-AR8500	DDX8017
CDA-9857	KD-AV7010	DPX701
DVA-9861	KD-AVX1	KDC-X590
DVA-9965	KD-LHX550	KDC-X790
DVA-9965	KD-SHX550	KDC-X890
IYA-D310	KD-SHX750	KVT-717DVD
IYA-W200	KD-SHX850	KVT-817DVD

PLEASE NOTE: Models not listed built prior to 2005 are still supported as long as they are equipped with a steering wheel control input.