



ASWI-PS

1-30-07

Universal Steering Wheel Control Interface

For Pioneer and Sony Radios
with wired remote inputs.

Installation Instructions

Before You Start



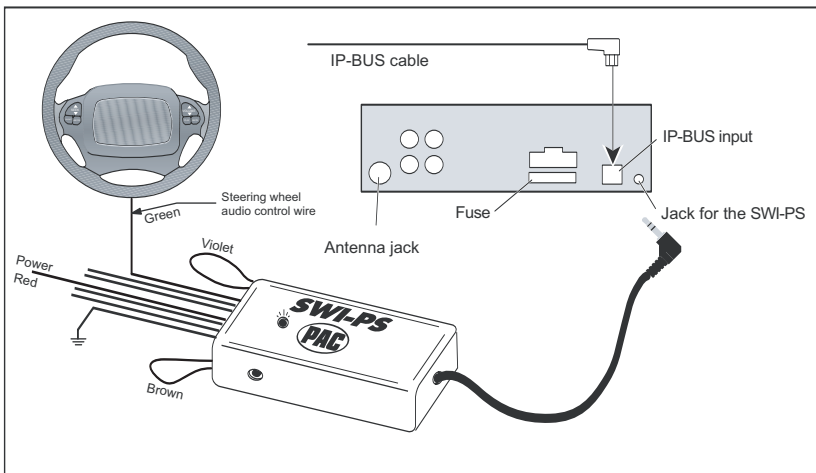
A. Is this product compatible with the vehicle?

- See application guide (separate sheet) for listing of vehicles and connection information. If not, check www.pac-audio.com for an updated list of compatible vehicles.



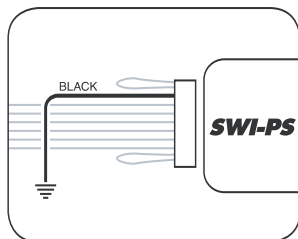
B. Prepare for the installation.

- If possible, install the SWI-PS 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-PS is working properly.
- Plan a general installation location for both the SWI-PS plug and the control body. Keep in mind that the supplied wire harness is **two feet long**, and the 1/8" plug harness is **three feet long**.
- Use a multimeter or approved measuring device for checking vehicle circuits.



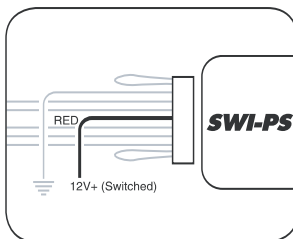
Wiring Connections

Note: Only 3 wires will be used during installation. Only GM vehicles programmed for version #4, will use 4 wires.



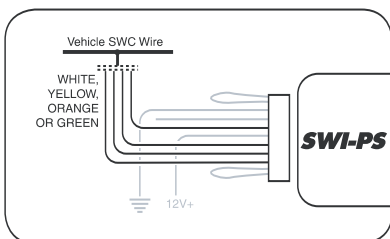
Step 1.
Connect the BLACK wire to ground (-).

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).

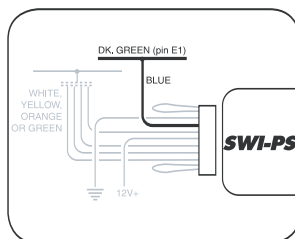
- Refer to the **Identification and Connection Chart**. Locate the vehicle and note the SWC wire color in the "Interface Wire Color" column.
- Note the vehicle wire color and location information in the "Identification" column.

Note: You will only connect ONE of these wires. The other 3 wires will not be used. Cut and insulate the unused wires.

- Connect the wire as indicated in the chart.

Step 4

If necessary, perform the following operations as indicated by the notes in **Identification and Connection Chart**.



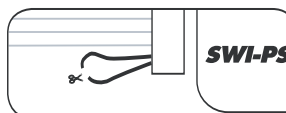
Step 4a.

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 instructed by the **Vehicle Application Guide**, cut the BROWN wire loop and insulate both halves.



Step 4c.

If instructed by the **Vehicle Application Guide**, cut the VIOLET wire loop and insulate both halves, or place a resistor in-line of wires.

Note: **Step 4a** is for vehicles made by General Motors that are programmed for version #4 only. If no connections is necessary, proceed to Step 4b.

Programming the SWI-PS to Work With the Vehicle

Step 5.

Refer to **The Vehicle Application Guide**. Note the **INTERFACE Version Number** next to the selected vehicle. Fill in the information below for quick reference.

Version Number: _____

(Write Version Number here)



Step 6.

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



The LED on the SWI-PS will light.



Step 7.

Release the programming/ mode button.



The LED will turn off, indicating memory is cleared.



Step 8.

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

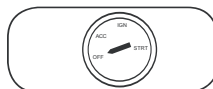


The LED will flash each time the button is pressed and released.



Step 9.

After 3 seconds, the LED will flash the same amount of times of set version number.



Step 10.

Turn vehicle ignition to OFF position. Vehicle programming sequence is complete.

Programming the SWI-PS 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.



LED will flash to indicate set version number.

If you programmed the interface for version #4, proceed with the following steps.

If you did not program the interface for version #4, skip to Step 18.

Step 12.

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



LED will light.

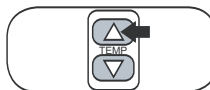


Step 13.

Release programming/mode button.

Step 14.

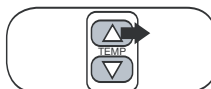
Press and hold the TEMP UP button on the steering wheel control.



LED will turn off.

Step 15.

Release the TEMP UP button.



LED will turn on. The function is programmed.

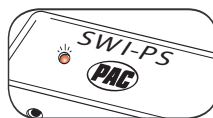
Step 16.

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.



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

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-PS.



Step 18.

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



LED will light.



Step 19.

Release programming/mode button.

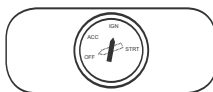
You only need to press the programming/mode button once to program all the buttons. If you press this button again after the interface is programmed, it will erase all previous learned buttons.

Programming the SWI-PS 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.



LED will flash to indicate set version number.

If you programmed the interface for version #4, proceed with the following steps.

If you did not program the interface for version #4, skip to Step 18.

Step 12.

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



LED will light.

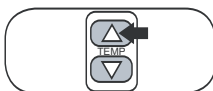


Step 13.

Release programming/mode button.

Step 14.

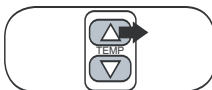
Press and hold the TEMP UP button on the steering wheel control.



LED will turn off.

Step 15.

Release the TEMP UP button.



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:



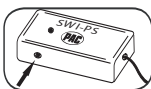
Press and release the programming/mode button on the SWI-PS.



In either case, the 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-PS.



LED will light.



Step 19.

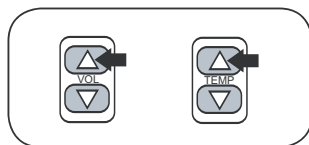
Release programming/mode button.

You only need to press the programming/mode button once to program all the buttons. If you press this button again after the interface is programmed, it will erase all previous learned buttons.

Testing the SWI-PS

Note: For Sony head units, please refer to the note below.

Test each Heater function of the steering wheel controls. The TEMP and FAN should work properly. When testing the audio controls, the left LED on the SWI-PS will flash indicating it is sending a command. If any function does not work, repeat the programming instructions (starting from Step 11) or refer to **Troubleshooting Guide**.



Sony Head Units only!: If the Volume and Track/Seek settings are reversed, you need to program the head unit to reverse the input. Please refer to the radio's Owners Manual to change this feature for the wired remote.

Appendix A: Known Incompatible Vehicles

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

Troubleshooting Guide

No power / won't go into programming mode:

- Check **Red** wire connection and fuse. Make sure INTERFACE is connected to switched +12volts, not constant +12volts.
- Make sure vehicle ignition is on.

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.

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 ever I program a new button the previous button does not work.

- You must program all buttons during programming. If you try to program another button, all previous button will be erased. You will have to relearn all previous buttons again.

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



*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

STEERING WHEEL INTERFACE APPLICATION GUIDE



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



*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

STEERING WHEEL INTERFACE APPLICATION GUIDE



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



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



***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
IVA-D310	KD-SHX750	KVT-717DVD
IVA-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.