

### PRODUCT FEATURES:

- Retains Steering Wheel Controls via built-in, pre-programmed interface.
- Provides +12 volt accessory output.
- Auto detect on CAN Bus vehicles.
- Retains VR Command (Voice Recognition) function on select OEM steering wheel controls to activate CarPlay and Android Auto compatible devices.
- Works on the new generation Sony Radio with CarPlay function.

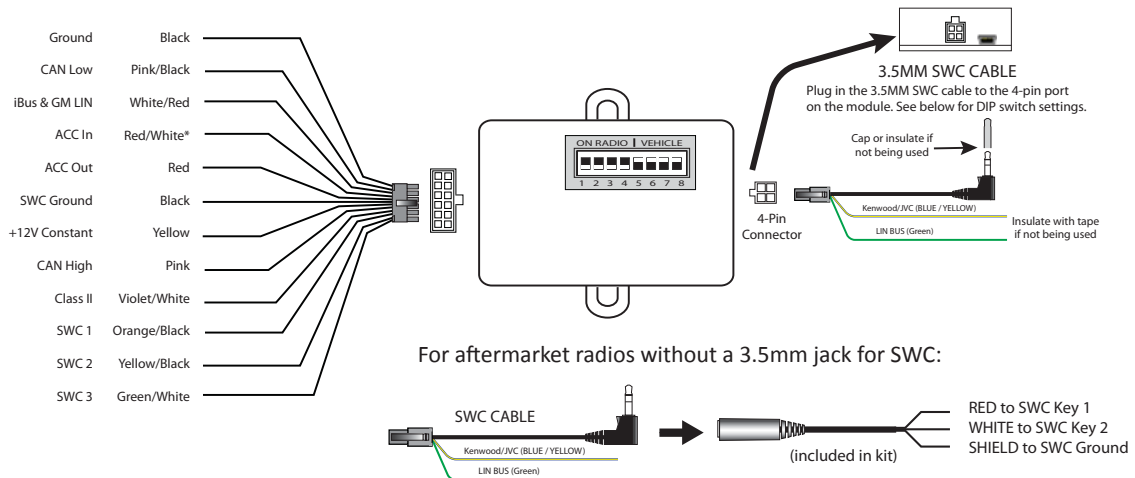
### PARTS INCLUDED:

SWR-100 Module	SWR-100 Harness	SWC Cable

### SUPPORTED RADIOS:

Alpine Boss	Clarion Dual	Fahrenheit Jensen	JVC Kenwood	Pioneer Power Acoustik	Sony Soundstream
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### INSTALLATION DIAGRAM:



\*For vehicles with analog SWC, connect the Red/White wire to ACC to power the module.

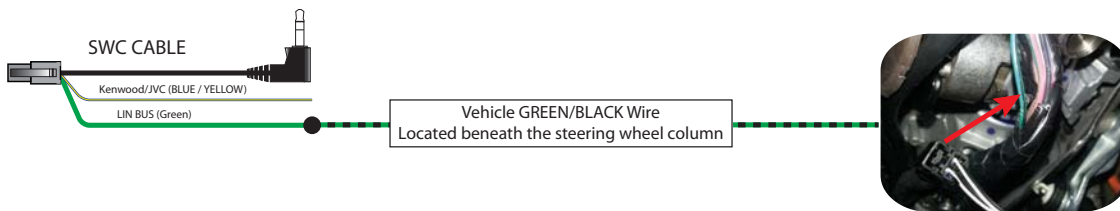
### SWC CONNECTION:

For aftermarket radios with a 3.5mm jack for the SWC, use the SWC cable below.

(Old Sony, New Sony (with CarPlay/Android Auto), Pioneer, Jensen, Dual, Fahrenheit, New Soundstream)

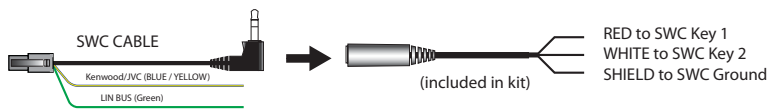


For GM vehicles with LIN Bus, tap the GREEN (LIN Bus) wire to the GREEN/BLACK wire on the factory SWC.



For radios with wires (2 or 3 wire) connections for SWC, use the female 3.5mm adapter.

(Boss, Power Acoustik, select Soundstream)



For Kenwood and JVC radios with a BLUE/YELLOW wire connection for SWC, tap to the BLUE/YELLOW wire of the SWC adapter.





## Honda

### COMPATIBILITY

#### Honda 17 & 20 Pin Connectors

2006-2011	Civic / Si
2006-2011	CRV
2010-2013	Insight (Non-Navigation)
2008-2011	Odyssey

#### Honda 24 Pin Connector

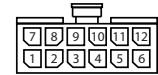
2008-2012	Accord DX/EX/LX
2011-2013	CRZ
2009-2013	Fit
2008-2011	Odyssey
2009-2013	Pilot
2009-2013	Ridgeline

#### Honda 20 Pin Connector

2003-2007	Accord DX/EX/LX
2005-2006	CRV
2003-2011	Element
2005-2007	Odyssey
2003-2008	Pilot
2006-2008	Ridgeline

### WIRES USED: (Highlighted in Gray)

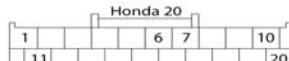
PIN	COLOR	DESCRIPTION
1	Black	Main Ground
2	Pink/Black	CAN Low (CAN -)
3	White/Red	iBus OR GM LIN
4	Red/White	Accessory In
5	Red	Accessory Out
6	Black	SWC Ground (Signal Return)
7	Yellow	+12V Constant
8	Pink	CAN High (CAN +)
9	Violet/White	Class II
10	Orange/Black	SWC 1
11	Yellow/Black	SWC 2
12	Green/White	SWC 3



12 Pin Molex Connector on the SWR-100 Harness PIN VIEW

### VEHICLE EXAMPLE: 2007 Honda Civic 17 & 20 Pin Connection

- 1) Pin#10 Orange/Black (SWC) connects to Connector HN20 Pin#7 Pink on the vehicle side.
- 2) Pin#6 Black (SWC Ground) connects to Connector HN20 Pin#6 Brown on the vehicle side.
- 3) Pin#1 Black (Ground) connects to Connector HN17 Pin#9 Black (Ground) on the vehicle side.
- 4) Pin#4 Red/White (ACC In) connects to Connector HN17 Pin#14 Violet on the vehicle side.
- 5) Pin#7 Yellow (+12V Constant) connects to Connector HN17 pin #17 White (Constant).
- 6) Set DIP switch 1-4 following Radio chart, e.g. For Pioneer set to: OFF, OFF, ON, ON
- 7) Set DIP switch 5-8 following Vehicles chart, Honda set to: OFF, ON, ON, OFF
- 8) Connect 3.5 mm SWC Cable jack to Aftermarket radio.



## Hyundai / Kia

### COMPATIBILITY

#### Hyundai & Kia 24 & 18 Pin Connectors

Hyundai	
2006-2009	Accent
2006-2008	Azera
2009-2011	Azera (w/ NAV Radio+AMPs)
2007-2008	Elantra
2007-2008	Entourage
2009	Genesis
2008-2009	Sante Fe (w/ NAV Radio+AMPs)
2009-2010	Sonata
2007-2008	Veracruz
2009-2010	Veracruz (w/ NAV Radio+AMPs)
2010-2013	Tucson
2012-2013	Veloster

#### Kia

2006-2008	Amanti*
2006-2008	Optima
2011-2014	Optima
2007-2008	Rondo
2006-2008	Sedona
2007-2009	Spectra
2009-2010	Sportage
2007-2009	Aura
2007	Ion
2007-2010	Sky

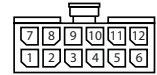
#### Hyundai & Kia Vehicles with ISO Connectors

Hyundai	
2010-2013	Accent
2007-2010	Azera (w/ NAV Radio+AMPs)
2009-2014	Elantra
2009-2010	Entourage
2011-2013	Genesis Sedan
2010-2014	Genesis Coupe
2009-2014	Sante Fe
2009-2013	Veracruz*
Kia	
2009	Amanti
2009-2010	Borrego
2010-2014	Forte
2009-2011	Optima
2009-2011	Rio
2009-2012	Rondo
2009-2014	Sedona
2009-2014	Sorento
2010-2014	Soul

\*Not equipped with Seek Up/Dn on SWC

### WIRES USED: (Highlighted in Gray)

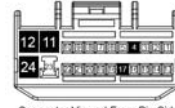
PIN	COLOR	DESCRIPTION
1	Black	Main Ground
2	Pink/Black	CAN Low (CAN -)
3	White/Red	iBus OR GM LIN
4	Red/White	Accessory In
5	Red	Accessory Out
6	Black	SWC Ground (Signal Return)
7	Yellow	+12V Constant
8	Pink	CAN High (CAN +)
9	Violet/White	Class II
10	Orange/Black	SWC 1
11	Yellow/Black	SWC 2
12	Green/White	SWC 3



12 Pin Molex Connector on the SWR-100 Harness PIN VIEW

### VEHICLE EXAMPLE: 2010 Hyundai Tucson 24 Pin Connection

- 1) Pin#10 Orange/Black (SWC 1) connects to Pin#4 Blue.
- 2) Pin#6 Black (SWC Ground) connects to Pin#17 Gray.
- 3) Pin#1 Black (Ground) connects to Pin#24 Black.
- 4) Pin#4 Red/White (ACC In) connects to Pin#11 Blue/Orange.
- 5) Pin#7 Yellow (+12V Constant) connects to Pin#12 Red.
- 6) Set DIP switch 1-4 following Radio chart, e.g. For Pioneer set to : OFF, OFF, ON ,ON
- 7) Set DIP switch 5-8 following Vehicles chart, Hyundai / Kia set to: OFF , OFF , ON , ON
- 8) Connect 3.5 mm SWC Cable jack to Aftermarket radio



Connector Viewed From Pin Side

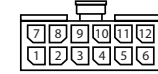
## Mazda

### COMPATIBILITY

2013-2014	CX-5	2004-2011	RX-8
2007-2011	CX-7	2007-2011	Speed3
2007-2012	CX-9	2006-2007	Speed6
2011-2012	Mazda2	2006-2011	MX-5 Miata
2004-2015	Mazda3	2002-2006	MPV
2006-2014	Mazda5		
2003-2014	Mazda6		

### WIRES USED: (Highlighted in Gray)

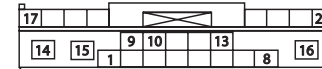
PIN	COLOR	DESCRIPTION
1	Black	Main Ground
2	Pink/Black	CAN Low (CAN -)
3	White/Red	iBus OR GM LIN
4	Red/White	Accessory In
5	Red	Accessory Out
6	Black	SWC Ground (Signal Return)
7	Yellow	+12V Constant
8	Pink	CAN High (CAN +)
9	Violet/White	Class II
10	Orange/Black	SWC 1
11	Yellow/Black	SWC 2
12	Green/White	SWC 3



12 Pin Molex Connector on the SWR-100 Harness PIN VIEW

### VEHICLE EXAMPLE: 2007 Mazda 3 Connection

- 1) Pin# 10 Orange/Black (SWC1) wire connects to Pin# 10 Black/White wire on vehicle side.
- 2) Pin# 6 Black (SWC Ground) connects to Pin# 9 Brown/Yellow on vehicle side.
- 3) Pin# 1 Black Ground connects to Pin# 14 Black/Green ground wire on the vehicle side.
- 4) Pin# 4 Red/White Accessory In connects to Pin# 1 Yellow accessory wire on vehicle side.
- 5) Pin# 7 Yellow +12V Constant connects to Pin# 16 Orange/Black wire on vehicle side.
- 6) Set DIP switch 1-4 following Radio chart, for this example we will be using a Pioneer radio. Set switches to OFF, OFF, ON, ON.
- 7) Set DIP switch 5-8 following Vehicle chart, for this example, set switches to OFF, ON, ON, ON.
- 8) Connect 3.5mm SWC Cable jack to aftermarket radio.



## Nissan

### COMPATIBILITY

#### Nissan (Old)

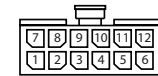
2005 - 2006	Altima
2006 - 2006	Maxima
2005 - 2006	Frontier
2005 - 2006	Pathfinder
2005 - 2006	Xterra
2007 - 2011	Frontier
2009 - 2010	Titan
2007 - 2010	Xterra

#### Nissan (New)

2009 - 2015	370Z	2009 - 2015	370Z
2007 - 2013	Altima	2007 - 2013	Altima
2008 - 2015	Armada	2008 - 2015	Armada
2009 - 2014	Cube	2009 - 2014	Cube
2007 - 2012	Frontier	2007 - 2012	Frontier
2011 - 2015	Juke	2011 - 2015	Juke
2011 - 2015	Leaf	2011 - 2015	Leaf
2007 - 2012	Maxima	2007 - 2012	Maxima

### WIRES USED: (Highlighted in Gray)

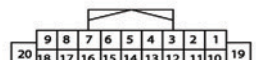
PIN	COLOR	DESCRIPTION
1	Black	Main Ground
2	Pink/Black	CAN Low (CAN -)
3	White/Red	iBus OR GM LIN
4	Red/White	Accessory In
5	Red	Accessory Out
6	Black	SWC Ground (Signal Return)
7	Yellow	+12V Constant
8	Pink	CAN High (CAN +)
9	Violet/White	Class II
10	Orange/Black	SWC 1
11	Yellow/Black	SWC 2
12	Green/White	SWC 3



12 Pin Molex Connector on the SWR-100 Harness PIN VIEW

### VEHICLE EXAMPLE: 2007 Nissan Altima 20 Pin Connection

- 1) Pin#10 Orange/Black (SWC 1) connects to Pin#6 White/Green.
- 2) Pin#11 Yellow/Black (SWC 2) connects to Pin#16 Gray Blue.
- 3) Pin#6 Black (SWC Ground) connects to Pin#15 Blue/Black.
- 4) Pin#1 Black (Ground) connects to Pin#20 Ground wire or chassis Ground.
- 5) Pin#4 Red/White (ACC In) connects to Pin#7 Violet/Yellow.
- 6) Set DIP switch 1-4 following Radio chart, e.g. For Pioneer set to : OFF, OFF, ON, ON
- 7) Set DIP switch 5-8 following Vehicles chart, Nissan 1 set to: OFF , ON , OFF , OFF
- 8) Connect 3.5 mm SWC Cable jack to Aftermarket radio.



## Toyota

### COMPATIBILITY

#### SWC Toyota 2003-2011

2003 - 2013	4Runner
2005 - 2011	Avalon
2007 - 2011	Camry
2004 - 2008	Camry Solara
2007 - 2011	FJ Cruiser
2008 - 2012	Highlander
2006 - 2011	RAV4
2003 - 2011	Sequoia
2004 - 2011	Sienna
2005 - 2012	Tacoma
2003 - 2013	Tundra
2009 - 2011	Venza

#### SWC Toyota 2012-2017

2012 - 2017	4Runner
2012 - 2017	Avalon
2012 - 2017	Camry
2012 - 2016	Corolla
2013 - 2017	Highlander
2012 - 2017	RAV4
2012 - 2017	Sequoia
2012 - 2017	Tacoma
2014 - 2017	Tundra
2012 - 2015	Venza

### WIRES USED: (Highlighted in Gray)

PIN	COLOR	DESCRIPTION
1	Black	Main Ground
2	Pink/Black	CAN Low (CAN -)
3	White/Red	iBus OR GM LIN
4	Red/White	Accessory In
5	Red	Accessory Out
6	Black	SWC Ground (Signal Return)
7	Yellow	+12V Constant
8	Pink	CAN High (CAN +)
9	Violet/White	Class II
10	Orange/Black	SWC 1
11	Yellow/Black	SWC 2
12	Green/White	SWC 3



12 Pin Molex Connector on the SWR-100 Harness PIN VIEW

### VEHICLE EXAMPLE: 2007 Camry 6 Speaker Connection

- 1) Pin#10 Orange/Black (SWC 1) connects to Connector TY20 Pin#7 Yellow (or Blue).
- 2) Pin#11 Yellow/Black (SWC 2) connects to Connector TY20 Pin#8 Orange (or Black).
- 3) Pin#6 Black (SWC Ground) connects to Connector TY20 Pin#6 Black (or Red).
- 4) Pin#1 Black (Ground) connects to connector TY10 Pin#7 Brown.
- 5) Pin#4 Red/White (ACC In) connects to connector TY10 Pin#3 Gray.
- 6) Pin#7 Yellow (+12V Constant) connects to Connector TY10 Pin#4 Blue/Yellow.
- 7) Set DIP switch 1-4 following Radio chart, e.g. For Pioneer set to : OFF, OFF, ON ,ON
- 8) Set DIP switch 5-8 following Vehicles chart, Toyota set to: OFF, ON , OFF , ON
- 8) Connect 3.5 mm SWC Cable jack to Aftermarket radio.



### VEHICLE EXAMPLE: 2007 Camry 6 Speaker Connection

- 1) Pin#10 Orange/Black (SWC 1) connects to Connector TY28 Pin#21 Black.
- 2) Pin#11 Yellow/Black (SWC 2) connects to Connector TY28 Pin#22 Yellow.
- 3) Pin#6 Black (SWC Ground) connects to Connector TY28 Pin#23 Pink.
- 4) Pin#1 Black (Ground) connects to Connector TY10 Pin#7 Brown.
- 5) Pin#4 Red/White (ACC In) connects to Connector TY10 Pin#3 Gray.
- 6) Pin#7 Yellow (+12V Constant) connects to Connector TY10 Pin#4 Blue/Yellow.
- 7) Set DIP switch 1-4 following Radio chart, e.g. For Pioneer set to : OFF, OFF, ON ,ON
- 7) Set DIP switch 5-8 following Vehicles chart, Toyota set to: OFF, ON , OFF , ON
- 8) Connect 3.5 mm SWC Cable jack to Aftermarket radio.

## Aftermarket Radio DIP Switch Settings

Radio Brand	DIP Switch			
	1	2	3	4
Alpine	OFF	OFF	OFF	OFF
Boss	OFF	OFF	ON	ON
Clarion	OFF	ON	ON	OFF
Dual	OFF	OFF	ON	ON
Fahrenheit	OFF	OFF	ON	ON
Jensen	OFF	OFF	ON	ON
JVC	OFF	ON	OFF	ON
Kenwood	OFF	ON	ON	ON
New Sony	OFF	OFF	ON	ON
Old Sony	OFF	ON	OFF	OFF
Pioneer	OFF	OFF	ON	ON
Power Acoustik	OFF	OFF	ON	ON
Soundstream	OFF	OFF	ON	ON
Zenec	OFF	OFF	OFF	ON

#### NOTE:

- 0 represent OFF
- 1 represent ON

#### LED Indicator:

- Red = Power / ACC ON
- Blue = Data Bus is recognized
- Green = SWC button is pressed

## Vehicle DIP Switch Settings

Position	<- DIP 5-8 ->	DESCRIPTION
0	0 0 0 0	BMW (iBus) / Ford (SWC1)
1	0 0 0 1	Buick, Cadillac, Chevrolet, GMC, Pontiac, Saturn, Suzuki (GM LAN)
2	0 0 1 0	Buick, Cadillac, Chevrolet, GMC Hummer, Isuzu, Oldsmobile, Pontiac, Saab, Saturn (Class II)
3	0 0 1 1	Audi, BMW, Chrysler, Dodge, Fiat, Ford, Honda, Jeep, Lincoln, Mazda* Mercedes Benz, Mercury, Mitsubishi*, Porsche, Volkswagen, Volvo (CAN Vehicles) / Hyundai, Kia (SWC1)
4	0 1 0 0	Nissan (SWC1 & SWC2)
5	0 1 0 1	Toyota (SWC1 & SWC2)
6	0 1 1 0	Honda (SWC1)
7	0 1 1 1	Mazda (SWC1 & SWC2)
8	1 0 0 0	Nissan (SWC1 & SWC2)

**Legal Disclaimer:** Crux Interfacing Solutions shall assume No liability or responsibility for wiring color changes and/or pin definition changes effected by vehicle manufacturer. The provided information must be verified by the installer.

## Mercedes Benz

### COMPATIBILITY

#### Mercedes 40 Pin Quadlock Connector

2004-2010	A Class (W169)
2004-2010	B Class (W245)
2006-2011	R Class (W251)
2005-2006	C Class (W203)
2005-2011	M Class (W164)
2016-2017	Metris (W447)
2007-2014	C Class (W204)
2001-2002	E Class (W211)
2009-2012	E Class (W212)
2004-2008	SLK (R171) Non Fiber-Optic
2014-2016	Sprinter (W906)*

#### Mercedes 20 Pin ISO Connectors

2004-2010	A Class (W169) with Audio5
2004-2010	B Class (W245) with Audio5
2000-2003	C Class (W203)
1999-2000	E Class (W210)
1999-2002	CLK Class (W208)
2001-2004	SL Class (R230)

\*To retain the factory Sprinter camera after replacing the radio, use Crux part# FAK-RCAM (sold separately).

### WIRES USED: (Highlighted in Gray)

PIN	COLOR	DESCRIPTION
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