



6.2" Double DIN Multimedia Receiver

AM-FM / Pandora / Bluetooth / iPhone® - iPod®/ USB / AV In / Rear Camera In / Sirius XM Ready

INSTALLATION & OWNER'S MANUAL



JENSEN® VX3228 INSTALLATION

Preparation

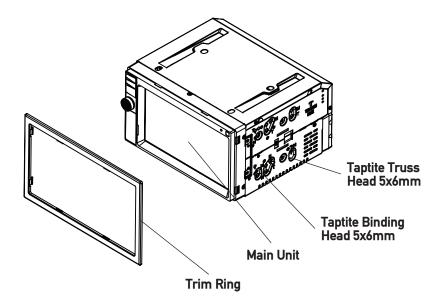
Please read entire manual before installation.

Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

Getting Started

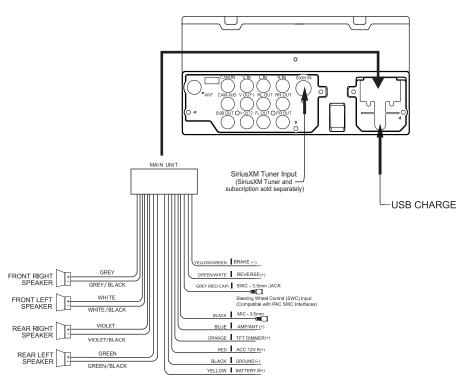
- Remove trim ring from unit.
- Insert the supplied keys into the slots as shown, and slide the unit out of the mounting sleeve.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness and antenna. Consult a qualified technician if you are unsure.
- Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
- Test for correct operation and slide into mounting sleeve to secure.
- Snap trim ring into place.



TYPICAL FRONT-LOAD DIN MOUNTING METHOD

JENSEN® VX3228 INSTALLATION

Wiring Diagram



Note:

When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could cause damage. The unit uses (1) 10 amp blade-type fuse located on the back of the unit.

Wiring Notes:

Rear camera input

A rear view camera (not included) can be used with the Camera input.

SiriusXM

For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner (SiriusXM connect tuner and subscription sold separately).



Control Locations

- 23 456789 (13) (12) (11) (10)JENSEN MODEL: CC REMOTE-18
- (6) EQ
- Repeat (7)
- (8) Display
- (9) No function
- (10)Source

- No function
- No function
- Random
- Volume Down
- (16) Volume Up
- (17) Tune / Track Up
- (18) Band
- (19) AS/PS
- (20) Next

General Operation

Power On/Off	Press \bullet or any other button (except Eject) to turn the unit on. Press and hold \bullet to turn the unit off.
Source	Press SRC to access available input modes: Radio, Pandora, USB, Bluetooth Phone, Bluetooth Audio, SiriusXM, AV In 1, AV In 2, Camera and Settings, USB device must be connected/inserted to appear in the mode selection string.
Volume	Rotate the volume knob to increase or decrease the volume level.
Mute	Momentarily press \bullet to silence the audio. Momentarily press \bullet again to return to the previously selected volume. Rotating the volume knob while the muted will also cancel the mute function.
Auxiliary Input	Connect external audio devices to the 3.5mm auxiliary input on the front panel.
USB Port	Connect a USB device to the USB port on the front panel to play MP3 files or view AVI, MP4 video files or JPG photos.
Main Menu	From any operational mode, press the arrow icon in the top left corner to access the Main Menu screen. Use the right and left arrows in the bottom corners to navigate between the two Main Menu screens, and touch any icon to directy access the corresponding mode.



General Operation

From the Main Menu screen, press Settings in the bottom right corner to Setup Menu access the Setup Menu and select from the following categories: General, Time, Display, Panel, Radio, General, Illumination, Wallpaper and Version. Settinas * 10:35PM OSD Language English > Animation Off > Beep On 100 Camera On -100 After accessing the desired category, press the up/down arrows to navigate all the category options and use the touch screen to adjust each option. General: • OSD Language - Select English as the language for the on-screen display. SRC - Select to choose the desired source for each option: SRC1, SRC2, SRC3 and SRC4. • Beep - Select to turn the audible beep On or Off. · Camera - Select to turn the camera On or Off. Parking Guideline - Select to turn parking guidelines On or Off. Time: · Set the year, month and day, select between a 12-hour and 24-hour clock display and set the hour and minute for the clock display. Display: • Adjust the following display options (-20 to 20): Brightness, Contrast, Hue, Saturation and Sharpness. Panel: Dimmer - Turn the dimmer On or Off. Dimmer Level - Select between Level 1. Level 2 or Level 3. Panel Adjust - Press and follow the prompts to calibrate the touch screen.



General Operation

Setup Menu | Radio:

- Dual Select between Stereo and Mono operation.
- Local Select between Local and Distance tuning
- Areea Select between Europe, USA, American1 American 2 and OIRT.
- RDS Select On or Off.
- RDS Region Select On or Off.
- PI Select Sound or Mute.
- TA Select to turn traffic announcements On or Off.
- AF Select to turn alternative frequencies On or Off.
- Radio Text Select to turn radio text On or Off.
- Clock Sync Select to turn clock sync On or Off.
- Traffic Volume Select to turn traffic volume On or Off.

Bluetooth:

- Bluetooth Turn Bluetooth On or Off.
- Auto Connect Select On to program the unit to automatically connect to available Bluetooth devices.
- Auto Answer Select On to program the unit to automatically answer incoming calls using Bluetooth.
- Auto Load Record Turn auto load record On or Off.
- Auto Load Phonebook Select On to automatically load the phonebook from your phone.
- Change PIN Select to change the PIN.

SXM:

Change Password - Press and follow the prompts to change the unit's password.

Illumination:

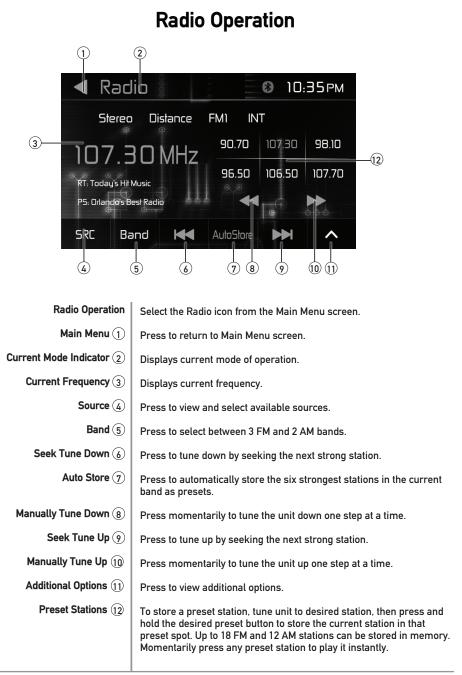
· Press to adjust color settings for illumination.

Wallpaper:

Press to select a wallpaper for the on-screen display.

Version:

 Press to display version numbers or to restore the unit to factory default settings.



Radio Operation



Local / Distance 🔞	Press to select between Local or Distance tuning.
Mono / Stereo 🔃	Press to select Stereo or Mono operation.
Program Type (15)	Press to view and select a station category, and the unit will automatically seek stations with that type of programming.
Direct Entry (16)	Press to directly enter the desired station number and begin playback of that station.
EQ (17)	Press to enter the Audio Settings menu and adjust the following audio options:
	 EQ - Use the touch screen to adjust equalization curvesn to suit individual listening preferences. The following equalizer frequencies are available for adjustment: 80Hz, 160Hz, 320Hz, 600Hz, 1kHz, 3kHz, 8kHz and16kHz. An adjustment range of +16dB to -16dB is available for each frequency band.
	 Fader-Balance - Use the touch screen to adjust the balance of the audio output levels throughout the vehicle. The fader adjusts levels front to back, and the balance adjust from left to right.
	 Audio - Use the touch screen to adjust the following options: Subwoofer (On or Off). Subwoofer Frequency (80Hz, 120Hz or 160Hz), Loudness (On or Off) and Loudness Center Frequency (400Hz, 800Hz or 2400Hz).
	• SRC Level - Adjust audio levels for each audio source (USB, etc.)
Traffic Announcements (18)	Press to turn the Traffic Announcements feature On or Off.
Alternative Frequencies (19)	Press to turn the Alternative Frequencies feature On or Off.

USB Operation			
3 <u>A</u> rtis Son Albu	2 USB urday Night urday Night urday Night ur: Greatest Hits case List List 6 7 8 9 10:35 PM JENSEN JENSEN 3/7 2/28		
USB Operation	Connect a USB device, and playback will begin automatically. To switch to USB mode from another mode of operation when a device is already inserted, select USB from the Main Menu screen.		
Main Menu 🕦	Press to return to Main Menu screen.		
Current Mode Indicator (2)	Displays current mode of operation.		
File Information ③	Displays information about the current file, including file name, song title, artist name and album name.		
Source (4)	Press to view and select available sources.		
List (5)	Press to view a list of files on the device. Use the up/down arrows to scroll through the list, then press the file name twice to begin playback of that file. When searching all files, Order will appear on the right side of the screen. Press this button to switch to viewing files by Folder, then press the desired folder name twice to view only the files contained in that folder. When viewing file lists, the unit will show music lists by default. To view lists of photo or video files, press the corresponding icon on the bottom of the screen.		
Previous File 6	Press to return to the previous file. Press and hold to skip to the beginning of the current file.		
Elapsed Time $\overline{7}$	Displays the elapsed time and time remaining for the current file.		
Play/Pause (8)	Press to stop or restart playback.		
Next File 9	Press to advance to the next file.		
Additional Options (10)	Press to display additional options.		



USB Operation

 L 	JSB 📼 😵 10:35рм		
Artist: Song			
ŧ	→ Direct EQ TA へ Entry EQ TA		
Û			
Repeat (1)	Press to select one of the following option for Repeat play: Repeat 1, Repeat Folder, Repeat All or Repeat Off.		
Random (12)	Press to enable or disable random playback.		
Direct Entry 🔞	Press to directly enter a folder (optional) and file number to begin playback of specific file.		
EQ (14)	Press to enter the Audio Settings menu and adjust the following audio options:		
	• EQ - Use the touch screen to adjust equalization curvesn to suit individual listening preferences. The following equalizer frequencies are available for adjustment: 80Hz, 160Hz, 320Hz, 600Hz, 1kHz, 3kHz, 8kHz and16kHz. An adjustment range of +16dB to -16dB is available for each frequency band.		
	 Fader-Balance - Use the touch screen to adjust the balance of the audio output levels throughout the vehicle. The fader adjusts levels front to back, and the balance adjust from left to right. 		
	• Audio - Use the touch screen to adjust the following options: Subwoofer (On or Off), Subwoofer Frequency (80Hz, 120Hz or 160Hz), Loudness (On or Off) and Loudness Center Frequency (400Hz, 800Hz or 2400Hz).		
	• SRC Level - Adjust audio levels for each audio source (USB, etc.)		
Traffic Announcements (15)	Press to turn the Traffic Announcements feature On or Off.		

iPod Operation		
(3) The Artist: Song: Album Ca:si SRC	Win (Single) (Explicit)	
(4) iPod Operation	(5) (6) (7) (8) (9) (10) The unit will automatically switch to iPod® mode when an iPod® or iPhone® is plugged into the front panel USB connector. iPod® mode can be accessed from the Main Menu by touching the iPod® icon (only available when an iPod® or iPhone® is connected).	
	Note : For audio playback, the iPod® / iPhone® must be connected using the iPod® / iPhone® adapter cable that came with the iPod / iPhone device (also available separately). Be sure your device has the latest Apple firmware installed to avoid connectivity issues.	
Main Menu (1)	Press to return to Main Menu screen.	
Current Mode Indicator (2)	Displays current mode of operation.	
File Information ③	Displays information about the current file, including file name, song title, artist name and album name.	
Source (4)	Press to view and select available sources.	
List (5)	Press to view a list of files on the device, Use the up/down arrows to scroll through the list of categories to view files by Playlist, Artist, Album, Genres, Song, Composers or Audiobooks. Press the desired category name twice to view and select from all files in that catetory.	
Previous File 6	Press to return to the previous file. Press and hold to skip to the beginning of the current file.	
Elapsed Time 🤈	Displays the elapsed time and time remaining for the current file.	
Play/Pause (8)	Press to stop or restart playback.	
Next File 🧿	Press to advance to the next file.	
Additional Options (10)	Press to display additional options.	



iPod Operation

	iPod 🔋 Ю:35рм
Artist: Song	h: Win (Single) (Explicit) ⊐⊄
Repeat 🕦	Press to select one of the following option for Repeat play: Repeat 1, Repeat Folder, Repeat All or Repeat Off.
Random (1)	Press to enable or disable random playback.
Direct Entry (12)	Press to directly enter a folder (optional) and track number to begin playback of specific track.
EQ (13)	Press to enter the Audio Settings menu and adjust the following audio options:
	 EQ - Use the touch screen to adjust equalization curvesn to suit individual listening preferences. The following equalizer frequencies are available for adjustment: 80Hz, 160Hz, 320Hz, 600Hz, 1kHz, 3kHz, 8kHz and16kHz. An adjustment range of +16dB to -16dB is available for each frequency band.
	 Fader-Balance - Use the touch screen to adjust the balance of the audio output levels throughout the vehicle. The fader adjusts levels front to back, and the balance adjust from left to right.
	• Audio - Use the touch screen to adjust the following options: Subwoofer (On or Off). Subwoofer Frequency (80Hz, 120Hz or 160Hz), Loudness (On or Off) and Loudness Center Frequency (400Hz, 800Hz or 2400Hz).
	• SRC Level - Adjust audio levels for each audio source (USB, etc.)
Traffic Announcements (14)	Press to turn the Traffic Announcements feature On or Off.

Pandora Operation		
1	2	
	Рапога 🛛 😵 10:35рм	
3 Artist: Song: Album	: Win (Single) (Explicit)	
00:0		
SRC	List EQ 5 6 7 8 9 10	
Pandora Operation	Pandora Radio is available (in the United States, Australia and New Zealand) on your iPhone® - iPod® touch via USB cable or an Android™ device via Bluetooth. Data usage may occur. Note : The Pandora Radio app must be installed on your device.	
Main Menu 🕦	Press to return to Main Menu screen.	
Current Mode Indicator (2)	Displays current mode of operation.	
Information Display ③	Displays information about the current song, including Station Name, Song Title, Artist Name and Album Name.	
Source (4)	Press to view and select available sources.	
Station List (5)	Press to search for music by stations you created. Use the up/down arrows to navigate the list, then press a station name to access that station. Press Recent to see only recent stations.	
EQ 🙆	 Press to enter the Audio Settings menu and adjust the following audio options: EQ - Use the touch screen to adjust equalization curves to suit individual listening preferences. Fader-Balance - Use the touch screen to adjust the balance of the audio output levels throughout the vehicle. Audio - Use the touch screen to adjust the following options: Subwoofer (On or Off). Subwoofer Frequency (80Hz, 120Hz or 160Hz), Loudness (On or Off) SRC Level - Adjust audio for each audio source (USB, etc.) 	
Elapsed Time (7)	Displays the elapsed time and time remaining for the current file.	
Play / Pause 🛞	Press to pause or resume playback.	
Skip 🧿	Press to skip to the next song (subject to Pandora's skip limit).	
Additional Options (10)	Press to view additional options.	



Pandora Operation

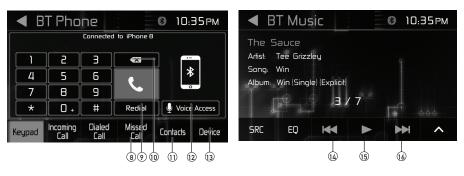
Pandor	9	🛞 10:35рм
The Sauce Artist: Tee Grizz Song: Win Album: Win (Singl		To daught
00:01;42	00:04:52	
4	Bookmark Bookma Track Artivt	
11 12	13 14	(15)

Thumbs Up (1)	Press to tell Pandora you like the track currently playing, and Pandora will play more tracks like it.
Thumbs Down (12)	Press thumbs down to tell Pandora you do not like the track. The track will be skipped, if possible, and your feedback will be recorded.
Bookmark Track (13)	Press to bookmark a track.
Bookmark Artist 👍	Press to bookmark an artist.
Traffic Announcements (15)	Press to turn the Traffic Announcements feature On or Off.

	2					
d BT	Pho	one		10:35	PM	
		Device No	t Connected !			
3	2	3	*			
4	5	6		*		
7	8	9				
	0+		Redial	Voice Acce	.55	
Keypad ^{Ir}	ncoming Call	Dialed Call	Missed Call	Contacts De	vice	
	(5)		7			
Preparat		efore vou c	U an use a Blu	etooth device it	must be paired and	
Toparat	c	onnecťed. M	lake sure tha		ctivated on your device	
Pairing a New Device		The unit broadcasts the pairing signal constantly when no devices are currently connected. Complete the pairing sequence from your Bluetooth device. Refer to the owner's manual for your device for more details. The device name is "VX3228". The Bluetooth passcode "5309". The unit can be in any mode of operation when pairing is performed.				
Connecting a Paired Device		Most Bluetooth devices support the auto-connect feature and will connect automatically if the device is in range when the unit is powered-on. If your device was previously paired but does not connect, enter the Bluetooth setup menu and ensure that Auto Connect is On.				
Bluetooth Pho	one T	To access the phone, select Bluetooth Phone from the Main Menu.				
Main Menu 🕦		Press to return to the Main Menu screen.				
Current Mode Indicator 2		isplays curi	rent mode of	operation.		
Phone Keypad ③					phone number. tly from the phone.	
Keypad (4)		ress to disp	olay keypad a	and dial a numbe	er.	
Incoming Call (5)					se the up/down arrows to number to connect a call.	
Dialed Call (6)		ress to disp croll throug	olay a list of c h the list, an	outoing calls. Us d press desired	e the up/down arrows to number to connect a call.	
Connect or End Call (7)		ress 📞 a uring a pho	after dialing a ne call to end	a number to con d the call.	nnect a call. Press 🦰	

Bluetooth Operation

Bluetooth Operation

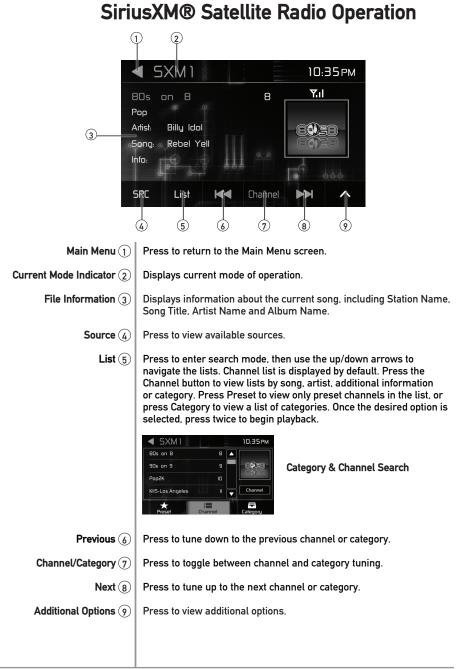


Missed Call (8)	Press to display a list of missed calls. Use the up/down arrows to scroll through the list, and press desired number to connect a call.
Redial ᠀	Press to redial the most recently-dialed number.
Backspace (10)	When dialing the number, press to backspace when needed.
Contacts (1)	Press to display a list of stored contacts. Use the up/down arrows to scroll through the list, and press desired number to connect a call. The keypad on the left side of the screen allows direct entry of a contact name for quicker access.
Voice Access (12)	Press to access Siri or Google Voice through the head unit when connected via Bluetooth. Your phone must support Siri or Google Voice in order for this feature to be supported on the head unit.
	Note: Samsung "S" Voice and other third-party apps may not be supported.
Device (13)	Press to display a list of available devices. Use the up/down arrows to scroll through the list, and press desired number to connect to that device. Press the red disconnect button to the right of a device name to disconnect and/or delete that device.
Bluetooth Music	To use your Bluetooth connection to play music from your device, press #5 or select Bluetooth Music from the Main Menu.
Previous Track (14)	Press to return to the previous file to track.
Play/Pause (15)	Press to pause or resume playback.
Next Track 16	Press to advance to the next file or track.

SiriusXM® Satellite Radio Operation



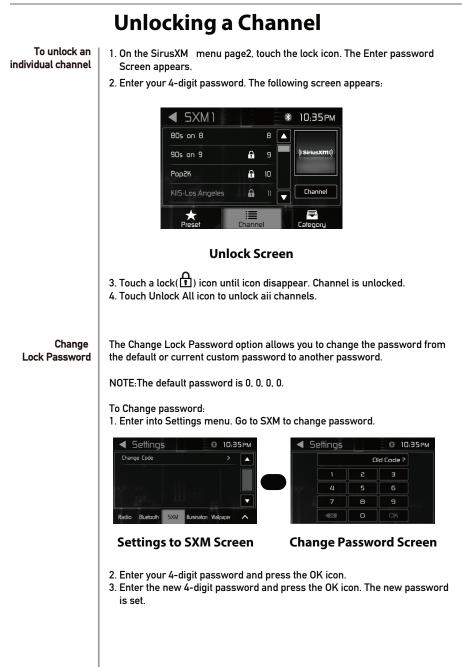
SiriusXM® Radio	Only SiriusXM® Satellite Radio brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.
Activating SiriusXM® Radio	After installing your SiriusXM Connect Vehicle Tuner and antenna. power on your radio and select SiriusXM mode. You should be able to hear the SiriusXM preview channel on Channel 1. After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner. The Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner and its packaging.
	Note: SiriusXM Radio ID does not include the letters I, O, S or F.
	In the USA, activate online or by calling SiriusXM Listener care: • Visit www.siriusxm.com/activatenow • Call SiriusXM Listener Care at 1-866-635-2349
	For Canadian Subscriptions, please contact: • Visit www.siriusxm.ca/activatexm • Call XM customer Care at 1-877-438-9677
	Activation typically takes 10-15 minutes, but may take up to one hour. It is recommended to leave your vehicle on until the "Subscription Updated" message appears. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.
	Once activated, you can tune to channels in your subscription plan.
Accessing SiriusXM® Radio	From the Main Menu, touch the SiriusXM icon to access SiriusXM mode and begin operation.



SiriusXM® Satellite Radio Operation

SXM1	10:35рм	🚽 5XM1 🖁	10:35рм
BDs on B Pop Arits: Billy Idol Song: Rebel Yell Info: Band Mem Scan Lon 4 5 6 7	T.I	BOs on B Pop Artist: Billy Idol Song: Rebel Yell Info: EQ TA Ar 9 10 11	
Band (4) Touch to select a band of preset channels. Three bands are available: SXM1, SXM2, and SXM3. Each band can store up to six preset channels. (Preset channels are accessed from the List icon.)			tore up to six preset
Memory (5)		s any preset numbe	each channel, song, artist, er twice to save the current
Scan 6			band and listen five seconds and resume playback.
Lock (7)	Touch to display the S	SXM Lock Screen to	set controls, if desired.
Direct Entry (8)	Press to directly ente	r channel numer an	d begin channel playback.
EQ (9)	Press to enter the Au audio options:	idio Settings menu a	nd adjust the following
	suit individual li frequencies are 600Hz, 1kHz, 3k	stening preferences available for adjust	equalization curvesn to 5. The following equalizer ment: 80Hz, 160Hz, 320Hz, An adjustment range of 1 frequency band.
	the audio outpu	t levels throughout t	en to adjust the balance of he vehicle. The fader adjusts adjust from left to right.
	Subwoofer (On	or Off), Subwoofer F ss (On or Off) and Lo	ust the following options: requency (80Hz, 120Hz or oudness Center Frequency
	 SRC Level - Adj etc.) 	ust audio levels for o	each audio source (USB,
Traffic Announcements (10)	Press to turn the Tra	ffic Announcements	feature On or Off.
Alternative Frequencies (1)	Press to turn the Alte	ernative Frequencies	feature On or Off.





SiriusXM[®] Radio Advisory Messages

SiriusXM Advisory Message	Recommendation
Check Antenna	 The radio has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged. Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner. Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com.
Check Tuner	 The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged. Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio
No Signal	 The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal. Verify that your vehicle is outdoors with a clear view of the sky. Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle. Move the SiriusXM antenna away from any obstructions. Inspect the antenna cable for damages and kinks. Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com.
Subscription Updated	This channel is not included in your SiriusXM® subscription plan. In the USA, visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm. ca or call 1-877-438-9677 if you have questions about your subscription.
Channel Unavailable	The channel that you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Vehicle tuner. Visit www.siriusxm.com for more information about the SiriusXM channel lineup.
Channel Unsubscribed	The channel that you have requested is not included in your SiriusXM subscription package or is no longer included in your SiriusXM subscription package. In the USA, visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription.
Channel Locked	The channel that you have requested is locked by the radio's Parental Control feature. Refer to the SiriusXM® Satellite Radio Operation section for more information on the Mature Channel Lock feature and how to access.

Front 3.5mm Aux Input & Rear RCA A/V Input

Auxiliary Input	Connect an optional audio source into the 3.5mm (front panel) input.
	Select auxiliary input from the Main Menu to listen to audio.
	Adjust volume on the external audio source as needed (if connected to the headphone output of the device).
Using AV Input	Connect an optional audio/video source to the rear auxiliary input (Red/White/ Yellow RCA connectors). Refer to page 6 for details.
	Select AV Input from the Main Menu to listen to audio.
	Engage parking brake to watch video.

Rear Camera Operation - (Optional)

Using Rear Camera	Connect an optional rear camera to the Camera Input (Black RCA connector). Refer to the wiring diagram for details.
	Manual selection - Touch CAMERA icon from the Main Menu or from any operational mode (when enabled) to select camera mode. Touch the top left area on the screen to exit camera mode.
	Note: The manual mode is for dedicated cameras that are ALWAYS on while driving, it is not meant for cameras that are connected to the vehicle's reverse light.
Auto Selection	The unit will automatically select camera mode when connected to the reverse lamp circuitry.
	Note: The external video output is not active when using the rear camera input.

SWC Input Operation

The built-in SWC Interface is compatible with PAC steering wheel control modules. The PAC SWI-RC is recommended. A third-party adapter must be used in order for the radio to be compatible with any steering wheel controls. The following controls are available for most vehicles.

1. Volume Up (+)	4. Preset (+)	7. Seek/Track Up (+)	10. BT Talk
2. Volume Down (-)	5. Preset (-)	8. Seek/Track Down (-)	11. BT End
3. Mute	6. Mode	9. Band	

Note: Not all OE steering wheel functions may be supported by the radio.

PAC SWI-RC Installation Hints

- 1. Set "Radio Select Switch". Set the SWI-RC to position 7 "Pioneer/Other/Sony".
- 2. To program, use the Pioneer/Sony/Other radio function mapping order for Dual units.
- 3. When programming the SWI-RC, if a function is not supported (or not desired), then the function MUST be skipped as per the PAC SWI-RC instructions.
- 4. The SWC function MUST be programmed in the correct order per the PAC SWI-RC radio function mapping order instructions.

Function Function Order Mapping	SWI-RC (3.3VDC Reference)		
		Center Pin (Ring) Voltage (Function Select)	Tip Pin Voltage
1	Volume +	H 5.0v	2.07
2	Volume -	H 5.0v	2.32
3	Mute	H 5.0v	1.01
4	Preset +	L 0.0V	1.54
5	Preset -	L 0.0V	1.81
6	Source	H 5.0v	0.60
7	Seek + / Track +	H 5.0v	1.54
8	Seek - / Track -	H 5.0v	1.81
9	Band	H 5.0v	2.73
10	BT Talk	L 0.0V	0.60
11	BT End	L 0.0V	1.01

Media Compatibility - USB/SD Card

File Type			MP3
File System	FAT	FAT 12	Х
	FAI	FAT 16/FAT 32	1
File	.m	p3/.MP3/.Mp3/.mP3	1
Extension	.rmp/.m4a		Х
		MPEG 1	1
MPEG Format		MPEG 2	✓
Tormat		MPEG 2.5	1
	MPEG 1		32/44.1/48kHz
Sampling Frequency	MPEG 2		12/16/22.05/24kHz
requeriey	MPEG 2.5		8/11.025/12kHz
	MPEG 1		32 ~ 320kbps
Bitrate	MPEG 2		8 ~ 160kbps
	MPEG 2.5		8 ~ 160kbps
	Directory Depth		Unlimited
Other Information	File Name Length		32 bytes
	Total File Number		2000 files
	Total Folder Number		200 folders
	File Number via Folder		2000 files
		ver.1.x	1
	MP3 ID3 TAG	ver.2.x	1
		Title, Artist, Album	1

Notes:

• For USB mode, it is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction.

• The JPG image viewer function will only operate when vehicle is in park and the parking brake is engaged.

• Due to ongoing technological advancement, some USB flash drives and/or SD cards may be incompatible with this unit.

Media Compatibility

Media Compatibility	The following types of files are not compatible: • WMA files that are protected by DRM (Digital Rights Management) • WMA lossless format • MP3 PRO format, MP3 playlists • RMP format • WAV format • WMV format • AAC, protected AAC, M4A format
Playback Order	MP3 playback sequence begins in the root folder of the USB flash drive or SD card. Any empty folders or folders that do not include MP3/JPG files are skipped.
Compatible Recording Formats	ISO9660 standards: • Maximum nested folder depth is 8 (including the root folder). • Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type.
	Some files may not play or be displayed correctly, depending on sampling rates and bit rates.
Notes	rates and bit rates. For best results, use the following settings when ripping MP3 files: 128kbps or higher constant bit rate 44.1kHz or higher sampling frequency

Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuses	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
NO SUPPORT appears on display	An invalid ID3 tag version is present	Version 1.0 to 2.0 ID3 tags are supported.



Specifications

FM Tuner	Tuning range: 87.5MHz-107.9MHz Usable sensitivity: 8.5dBf 50dB quieting sensitivity: 10dBf Stereo separation @ 1kHz: >30dB Frequency response: 30Hz-13kHz
AM Tuner	Tuning range: 530kHz-1710kHz Usable sensitivity: < 42dBu Frequency response: 30Hz-2.2kHz
General	USB Charge: 1A Speaker output impedance: 4~8 ohms Line output voltage: 4 Volts RMS Dimensions: 7" x 7" x 4" (178 x 178 x 100 mm) Design and specifications subject to change without notice.



CEA-2006 Power Standard Specifications (reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 16 Watts RMS x 4 channels at 4 ohms and \leq 1% THD+N Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via www.dualav. com.

What to do?

- Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
- If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
- 3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
- 4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
 - Call us toll-free at 1-866-382-5476
 - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.



FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Dual Electronics Corp. Toll Free: 888-921-4088

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