

X2DMA400 INSTALLATION/OWNER'S MANUAL AM/FM Receiver with Remote Control







Preparation

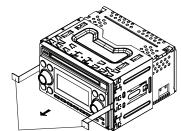
Please read entire manual before installation.

Before You Start

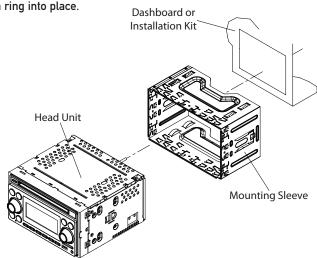
- Disconnect negative battery terminal. Consult a gualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

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 gualified 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.

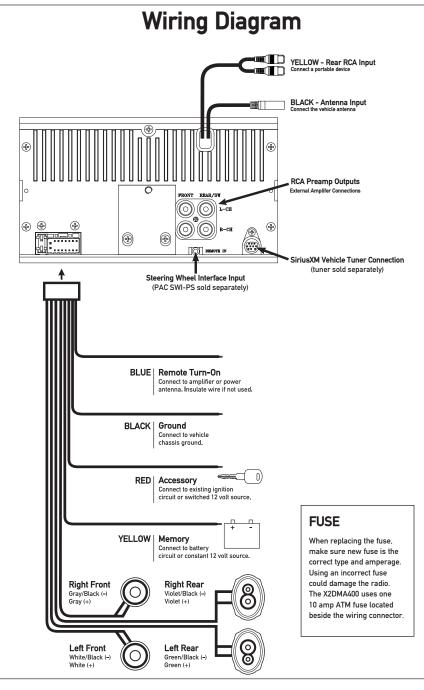


Removal Keys



TYPICAL FRONT-LOAD DIN MOUNTING METHOD

Dual



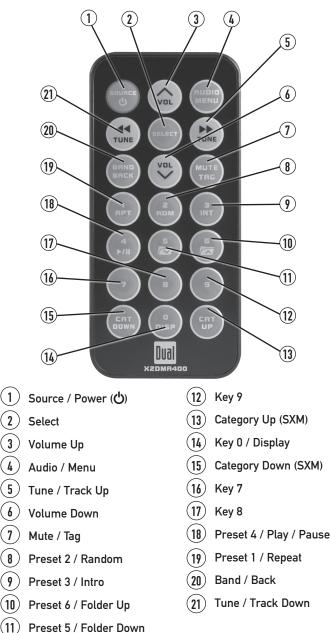


Control Locations - Receiver





Control Locations - Remote





General Operation

Power On/Off	Press ${}^{l\!\!\!\!\!\!\!\!}$ or any other button to turn unit on. Press and hold ${}^{l\!$
Source	Press SOURCE to select one of the following audio sources:
(I) I I I I I I I I I I I I I I I I I I	AM/FM Tuner Mode
Ô	CD Player Mode
×	Auxiliary Input (front/rear) Modes
∲ 🗗	USB and Operation of iPod/iPhone Modes
52	SD Card Mode
	SiriusXM Satellite Radio Mode
	When a source is selected, a red line will appear underneath the corresponding icon in the source indicator bar beneath the LCD.
Available Modes	SiriusXM mode will not appear unless the SiriusXM Connect Vehicle Tuner (sold separately) is connected.
	Operation of iPod mode will not appear unless an iPod device (sold separately) has been connected.
	CD, USB and SD modes will not appear unless a CD, USB device or SD card (sold separately) have been connected.
Steering Wheel Interface Input	The steering wheel interface input located on the back of the head unit allows connection to the PAC (Pacific Accessory Corporation) SWI-PS interface module (sold separately). Visit www.pac-audio.com for details.
	To configure steering wheel controls, follow the instructions provided with the PAC SWI-PS interface module. After installing the interface module, insert the module's 3.5mm jack into the port on the back of the head unit.



General Operation

Auxiliary Input	Insert 3.5 mm plug to connect your portable audio device.
Volume	Adjust volume using volume knob (00-46).
Mute	Press MUTE to silence the audio. Press MUTE again to cancel.
Reset	Press the RESET button, located in the bottom left corner of the front panel, to reset the unit back to the factory settings if abnormal operation occurs.
Display	Press DISP to toggle between items such as clock, radio frequency, or ID3 tag song information.
Set the Clock	With the unit on, press and hold DISP until the clock begins to flash, then release.
	 Turn the tuning knob left to adjust the hours Turn the tuning knob right to adjust the minutes.
	Press DISP momentarily to save the selected time.
12/24-Hour Clock	The clock will display 12-hour AM/PM time in USA frequency spacing mode (PM 10:00). In European frequency spacing mode, the clock will display 24-hour time (22:00).



Setup Menu

Press and hold AUDIO/MENU for more than 3 seconds to access the setup menu, then press AUDIO/MENU to cycle through menu options. When desired option appears in the display, rotate the tuning knob left/right to adjust or activate desired function. Press BACK to exit any menu or submenu.

Function	Options	Action
Auto Station Store	AUTO PGM STATIONS	Press SELECT to begin automatically programming strong radio stations to the 6 preset buttons in the current band. (Tuner mode only)
Local/Distance	LOCAL OFF	Activates distance tuning. (Tuner mode only)
Tuning	LOCAL ON	Activates local tuning for strong station reception only. (Tuner mode only)
Tuner	FREQ USA	Programs the unit to USA tuner spacing. (200kHz for FM and 10kHz for AM). (Tuner mode only)
Frequency Spacing	FREQ EUR	Programs the unit to European tuner spacing. (50kHz for FM and 9kHz for AM). (Tuner mode only)
Selectable iPod	IPOD CNT FULL	Programs the head unit to advanced control of the iPod/iPhone device.
Control	IPOD CNT MANUAL	Programs the head unit to basic control of the iPod/iPhone device and allows music to be controlled from the iPod/iPhone device.
Loudness	LOUD OFF	Disables the loudness function.
Curve	LOUD ON	Enables the loudness function. Activating this feature will enhance the bass and treble frequencies when listening to music at low volumes.
Clock	CLOCK OFF	Programs unit to not display the clock when the power is off.
Display	CLOCK ON	Programs unit to display the clock when the power is off.
Front Auxiliary	AUX FRNT ON	Enables the front panel 3.5mm auxiliary input.
Input	AUX FRNT OFF	Disables the front panel 3.5mm auxiliary input.
Rear Auxiliary	AUX REAR ON	Enables the rear RCA auxiliary input.
Input	AUX REAR OFF	Disables the rear RCA auxiliary input.
Subwoofer	SUBWFR SUB	Sets the Rear/Sub RCA output to Subwoofer.
Subwooler	SUBWFR REAR	Sets the Rear/Sub RCA output to Rear Speakers.
Веер	BEEP OFF	Disables the confirmation beep.
Confirmation	BEEP ON	Enables the confirmation beep.
Programmable Turn On Volume	PROG-VOL #	Programs unit to always turn on at a specific volume (default is OFF). Any volume level 1-46 can be selected.
Power on	MESSAGE OFF	Disables power on message. (example: GOOD MORNING)
Message	MESSAGE ON	Enables power on message to be displayed.
	SCROLL 15 SEC	Programs unit to scroll information once every 15 seconds.
Scrolling	SCROLL ONCE	Programs unit to scroll once, then show first 8 characters on display.
Option	SCROLL ON	Programs unit to scroll continuously.
	SCROLL OFF	Programs unit to show the first 8 characters on the display.
	DIMMER HIGH	Programs unit to the brightest illumination level.
Illumination Dimmer	DIMMER MEDIUM	Programs unit to the middle illumination level.
	DIMMER LOW	Programs unit to the dimmest illumination level.
Demonstration	DEM0 OFF	Disables the demonstration mode.
Mode	DEMO ON	Enables the demonstration message.
SiriusXM Setup	(Press SELECT)	See page 23 for menu options.



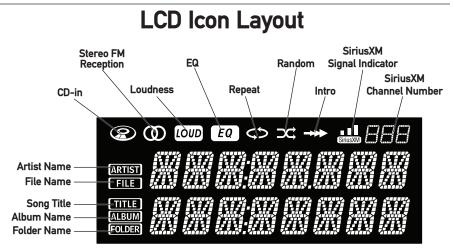
Audio Menu

Press **AUDIO/MENU** momentarily to cycle between Bass, Treble, Balance, Fader, Equalizer, *Subwoofer, and Source Volume Level. Press **BACK** at any time to exit the audio menu.

\rightarrow BASS \rightarrow TREBLE \rightarrow BALANCE \rightarrow FADER \rightarrow EQ \rightarrow SUBWOOFER \rightarrow SOURCE LEVEL -

Bass	Press AUDIO/MENU until BASS appears, then rotate the tuning knob left/right to adjust (-6 minimum / +6 maximum).
Treble	Press AUDIO/MENU until TREBLE appears, then rotate the tuning knob left/right to adjust (-6 minimum / +6 maximum).
	Note: Bass and Treble settings are retained for each mode individually.
Balance	Press AUDIO/MENU until BALANCE appears, then rotate the tuning knob left/right to adjust (BALANCE LEFT 12 to BALANCE RIGHT 12). "BALANCE EVEN" represents equal balance.
Fader	Press AUDIO/MENU until FADER appears, then rotate the tuning knob left/right to adjust (FADER FRONT 12 to FADER REAR 12). "FADER EVEN" represents equal fader.
EQ	Press AUDIO/MENU until EQ appears. Rotate the tuning knob left/right to select between FLAT (default), POP, JAZZ, CLASSIC, BEAT, ROCK and USER equalization curves. Press SELECT to confirm. Any manual adjustment to the Bass or Treble settings are automatically saved as USER.
*Subwoofer	Press AUDIO/MENU until SUBWFR appears, then press SELECT to confirm. Rotate the tuning knob left/right to adjust (0-12). Adjusting the level to 0 turns the subwoofer off.
	* Note: Subwoofer option will not appear if the "Subwoofer" option in the setup menu is set to REAR. Refer to page 8 for details.
Source Volume Level	The source volume level control allows a gain adjustment for each audio source. Set the source volume level for each mode, depending on the relative volume of each audio source.
	To set the source volume level, press AUDIO/MENU until "SOURCE LEVEL" appears. After one second, the current mode will appear on the display. Turn the tuning knob to adjust the audio level of the current source (-6 minimum/+6 maximum).
	Note : Only the current mode will be available for adjustment. Change to another mode to set the source level for that mode.





AM/FM Tuner Operation

Seek Tuning	Press TUNE I or TUNE I to seek the next strong station.
Manual Tuning	Rotate the tuning knob to move radio frequency up or down one step at a time.
Tuning - Remote Control	 Using the remote control: Press TUNE ◄◄ or TUNE ►► momentarily to perform Manual Tuning. Press and hold TUNE ◄◄ or TUNE ►► for 1 second, then release then release, to perform Seek Tuning.
Band	Press BAND to select between FM1, FM2, FM3, AM1 and AM2 bands. Up to six presets can be programmed for each band.
Storing and Recalling Station Presets	Up to 18 FM stations and 12 AM stations can be stored in memory.
	To store a station, select the desired band and station. Press and hold the desired preset button (1-6) for more than two seconds. When stored, the preset number will appear in the display.
	The station can be recalled by pressing the corresponding preset button.



CD Player Operation

Insert CD	With the label facing up, insert a standard size CD into the CD slot. The CD will automatically begin playback.
Eject CD	Press EJECT to eject the CD. The unit will change to previous mode of operation. If the disc is not removed within 10 seconds, the unit will reload the disc. The unit does not have to be turned on to eject CD.
Track Select	Rotate tuning knob right to skip to the beginning of the next track. Rotate tuning knob left to return to the beginning of the current track. Rotate tuning knob left again to skip to the beginning of the previous track.
Fast Forward/Reverse	Press and hold TRACK >> or TRACK < to fast forward or reverse a track.
Pause	Press /III to temporarily stop CD playback. Press /III again to resume playback.
Intro	Press INT to enter the Intro menu, then turn the tuning knob to select one of the following options: • OFF - Cancels the INT function. • ALL - Plays the first 10 seconds of each track.
Repeat	Press RPT to enter the Repeat menu, then turn the tuning knob to select one of the following options: • ALL - Plays all tracks on CD. • ONE - Continuously repeats selected track.
Random	Press RDM to enter the Random menu, then turn the tuning knob to select one of the following options: • OFF - Cancels the RDM function. • ALL - Plays all tracks in random order.
CD-R/CD-RW Compatibility	Some CD-Rs and CD-RWs may be incompatible with this unit, depending on media type and recording method. In addition, the following CDs may be incompatible with this unit:
	CDs exposed to extreme temperatures or direct sunlight for extended periods of time, CDs recorded in which a recording session failed or a re-recording was attempted and, or encrypted or copy-protected CDs which do not conform to the audio CD-DA red book recording standard.



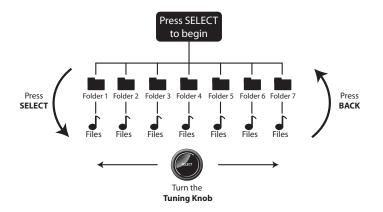
CD Player Operation - MP3/WMA Files

MP3/WMA Discs	When an MP3/WMA encoded disc is first inserted, "READING" will appear in the display. Depending on the number of files and folders, this may take several seconds.
Folder Access	Press 🖾 to select the next folder. Press 🖾 to select the previous folder.
	*Folder access is only available on discs recorded with more than one folder.
Repeat	Press RPT to enter the Repeat menu, then turn the tuning knob to select one of the following options: • ALL - Plays all tracks on CD. • ONE - Continuously repeats selected track. • FOLDER - Continuously repeats all files in the folder.
Random	Press RDM to enter the Random menu, then turn the tuning knob to select one of the following options: • OFF - Cancels the RDM function. • ALL - Plays all tracks in random order. • FOLDER - Plays all tracks in the folder in random order.
	Note: Random mode is retained in memory when selecting between other modes and when the unit is turned on/off.
Intro	 Press INT to enter the Intro menu, then turn the tuning knob to select one of the following options: OFF - Cancels the INT function. ALL - Plays first 10 seconds of each track. FOLDER - Plays first 10 seconds of each track in folder.
	Note: Folder repeat, random and intro options only function on MP3/WMA discs recorded with more than one folder.
Displaying Information	Press DISP momentarily to select between artist/song title (default), file/folder name, track number/clock & elapsed time.
	$(LINE 1) \longrightarrow ARTIST \longrightarrow FILE NAME \longrightarrow ELAPSED TIME \longrightarrow TRACK NUMBER TOTAL TRACK OF TOTAL TRACK OF TOTAL TRACKS TOTA$
	"NO ARTIST" or "NO TITLE" will be displayed if the file contains no ID3 tag information.
	"ROOT" will be displayed if the directory name of a root folder is not labeled.



CD Player Operation - MP3/WMA Files

File/Folder Search	Press SELECT to enter the file/folder search mode. A list of all the folders from the CD will be displayed.
	Note: Any files located in the root directory will be located in the folder named "ROOT".
Choose a Folder	Turn the tuning knob to cycle through all the folders on the CD, and press SELECT to choose the desired folder. The list of files in the selected folder will be displayed. Turn the tuning knob to cycle through the list of files.
Menu Navigation	Pressing BACK when viewing the contents of a folder will return to the list of folders on the CD. Press BACK again to exit the search menu.
Playing a Song	Once the desired song is displayed, press SELECT to begin playback of the desired song.





CD Player Operation - MP3/WMA Files

File/Folder Compatibility and Support

	• CD-ROM (ISO). CD-R. CD-RW
Compatible File Types	• CD-DA (digital audio)
	• MP3 data (.mp3)
	• WMA data (.wma)
	AAC data (.m4a)
	WAV lossless
	FLAC lossless
	• OGG data
	DRM protected files
Incompatible File Types	WMA lossless
	Apple lossless
	WMA Pro
	• MP3 Pro
	• MP3 playlists
Decending Formed	• IS09660 level 1 & level 2
Recording Format	Yellow book MODE 1 & MODE 2 FORM 1
Compatibility	Multi session
Sampling Frequency	• MP3: 8kHz ~ 48kHz
Rate Compatibility	• WMA: 32kHz ~ 48kHz
Transfer Bit Rate	• MP3: 32kbps ~ 320kbps
Compatibility	• WMA: 32kbps ~ 192kbps
	Song Title: 32 characters
	Artist Name: 32 characters
Character Support	Album Name: 32 characters
	File Name: 32 characters
	Folder Name: 32 characters
ID3 Tag Support	 MP3 Tags: Version 1.0 ~ 2.4
.se rag capport	• WMA Tags
	• Maximum files: 999
File/Folder Limit	Maximum folders: 255
	Maximum folder levels: 8



Operation of iPod/iPhone

Connecting an iPod/iPhone Device





Using the "dock connector to USB" sync cable (provided with the iPod/iPhone device), plug the USB cable into the X2DMA400's USB port. Once connected, playback will begin automatically.

Controlling a Device: Full Control

When the control of iPod/iPhone feature is set to "FULL" in the iPod Menu, use the following functions to control the device:

Song Select	Rotate tuning knob right to skip to the beginning of the next track. Rotate tuning knob left to return to the beginning of the current track. Rotate tuning knob left again to skip to the beginning of the previous track.
Fast Forward and Reverse	Press and hold ►► or ◀◀ to fast forward or reverse a song.
Pause	Press / III to temporarily stop playback. Press / III again to resume playback.
Repeat	Press RPT to enter the Repeat menu, then turn the tuning knob to select one of the following options: • ALL - Repeats all tracks. • SONG - Repeats selected track.
Random	 Press RDM to enter the Random menu, then turn the tuning knob to select one of the following options: OFF - Cancels the RDM function. ALL - Plays all tracks in random order. ALBUM - Plays all tracks in the selected album in random order.
Intro	Press INT to enter the Intro menu, then turn the tuning knob to select one of the following options: • OFF - Cancels the INT function. • ON - Plays first 10 seconds of each track.



Operation of iPod/iPhone

Controlling a Device: Full Control - Music Search Menu

The X2DMA400 features a powerful music search that simplifies the searching process. Follow the steps below to find the desired song:

Begin Searching	gin Searching Press SELECT to begin the search. The main search mer	
	will appear.	

Select a Category Turn the tuning knob to select between artists, albums, songs, playlists, podcasts and audiobooks. Press SELECT to select the desired search category. Some categories have subcategories to navigate through. See the table below for details.

Search Category	Menu Navigation
Artists	Menu → Artists → Albums → Songs
Albums	Menu 🖚 Albums 🖚 Songs
Songs	Menu 🔿 Songs
Playlists	Menu 🌩 Playlists 🔿 Songs
Podcasts	Menu 🌩 Podcasts
Audiobooks	Menu 🖚 Audiobooks

Step Backwards	Press BACK to return to the previous menu, or exit the search menu when the main menu is shown.	
Playing a Song	Navigate to the desired song/podcast/audiobook and press SELECT to begin playback.	
	Note : If a specific category is selected, the iPod/iPhone device playback will be limited to that category until another category is selected in the search menu.	

Displayed Information

Displaying Information	Press DISP momentarily to select file/folder name (default), song title/artist, track number/clock & elapsed time.		
Character Support	Maximum character display information • *Song Title – 32 character maximum • *Artist Name – 32 character maximum • *Album Name - 32 character maximum *Song Title, Artist Name and Album Name will only be displayed if included with the file.		



Operation of iPod/iPhone

Controlling a Device: Manual Control

When the control of iPod/iPhone feature is set to "MANUAL" in the iPod Menu, use the following functions to control the device:

Manual Control for iPod	When "MANUAL" control is selected from the iPod Menu, the iPod or iPhone device can be controlled directly from the device's interface. All functions except for volume can be used from the iPod or iPhone device.		
Basic Head Unit Control	In addition to manual control of the iPod/iPhone device, the following basic functions are still active:		
Song Select	Rotate tuning knob right to skip to the beginning of the next song. Rotate tuning knob left to return to the beginning of the current song. Rotating tuning knob left again skips to the beginning of the previous song.		
Pause	Press ▶/ II to temporarily stop playback. Press ▶/ III again to resume playback.		
Volume	When playing an iPod device, the volume is adjustable using the volume knob.		

Device Compatibility

Made for	 iPod touch (4th generation) iPod touch (3rd generation) iPod touch (2nd generation) iPod classic iPod nano (6th generation) iPod nano (5th generation) iPod nano (4th generation) iPhone 4 iPhone 3GS iPhone 3G



USB/SD Card Operation

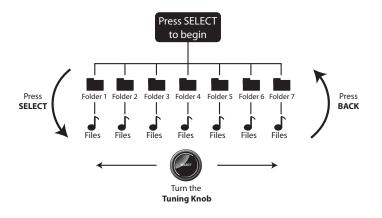
Connecting a USB Device (sold separately)	To play MP3/WMA files from most mass storage devices,connect a device to the X2DMA400's USB port.
Connecting a SD Card (sold separately)	To play MP3/WMA files from an SD Card, insert an SD card into the X2DMA400's SD card slot with the label facing up, and press the card until it clicks into place. Remove the SD card by pressing in until it clicks, then pull to remove.
Playing Music	When a USB or SD card device is first connected, playback will begin momentarily. Depending on the number of files and folders, it may take several seconds for the device to begin playing. If no valid MP3/WMA files are detected, "NO FILE" will be displayed.
Track Select	Rotate tuning knob right to skip to the beginning of the next track. Rotate tuning knob left to return to the beginning of the current track. Rotate tuning knob left again to skip to the beginning of the previous track.
Fast Forward and Reverse	Press and hold TRACK >> or TRACK < to fast forward or reverse a track.
Pause	Press ►/III to temporarily stop USB playback. Press ►/III again to resume playback.
Folder Access	Press 🐼 to select the previous folder. Press 🛣 to select the next folder.
	Note: Folder access is only available on USB/SD Card devices with more than one folder.
Repeat	 Press RPT to enter the Repeat menu, then turn the tuning knob to select one of the following options: ALL - Plays all tracks on the USB/SD Card device. ONE - Continuously repeats selected track. FOLDER - Continuously repeats all files in selected folder.
Random	 Press RDM to enter the Random menu, then turn the tuning knob to select one of the following options: OFF - Cancels the RDM function. ALL - Plays all tracks in random order. FOLDER - Plays all tracks in folder in random order.
	Note: Random mode is retained in memory when selecting between other modes and when the unit is turned on/off.
Intro	Press INT to enter the Intro menu, then turn the tuning knob to select one of the following options: • OFF - Cancels the INT function. • ALL - Plays first 10 seconds of each track. • FOLDER - Plays first 10 seconds of each track in folder.



USB / SD Card Operation

File and Folder Search

Begin Searching	Press SELECT to enter the file/folder search mode. A list of all the folders from the USB/SD device will be displayed.		
	Note: Any files located in the root directory will be located in the folder named "ROOT".		
Choose a Folder	Turn the tuning knob to cycle through all the folders on the device, and press SELECT to choose the desired folder. The list of files in the selected folder will be displayed. Turn the tuning knob to cycle through the list of files.		
Menu Navigation	Pressing BACK when viewing the contents of a folder will return to the list of folders on the USB device. Press BACK again to exit the search menu.		
Playing a Song	Once the desired song is displayed, press SELECT to begin playback of the desired song.		



Displayed Information

Press **DISP** momentarily to select between artist/song title (default), file/folder name track number/clock & elapsed time.

(LINE 1)	ARTIST	FILE NAME	ELAPSED TIME	TRACK NUMBER
(LINE 2)	SONG TITLE	FOLDER NAME	CLOCK	TOTAL TRACKS



USB / SD Card Operation

File/Folder Compatibility and Support

Compatible File Types	• CD-ROM (ISO), CD-R, CD-RW		
	CD-DA (digital audio)		
	• MP3 data (.mp3)		
	• WMA data (.wma)		
	• AAC data (.m4a)		
	WAV lossless		
	FLAC lossless		
	• OGG data		
Incompatible File Types	DRM protected files		
	WMA lossless		
	Apple lossless		
	• WMA Pro		
	• MP3 Pro		
	• MP3 playlists		
Recording Format	• IS09660 level 1 & level 2		
Compatibility	Yellow book MODE 1 & MODE 2 FORM 1		
Companying	Multi session		
Sampling Frequency • MP3: 8kHz ~ 48kHz			
Rate Compatibility	• WMA: 32kHz ~ 48kHz		
Transfer Bit Rate • MP3: 32kbps ~ 320kbps			
Compatibility	• WMA: 32kbps ~ 192kbps		
	Song Title: 32 characters		
	Artist Name: 32 characters		
Character Support	Album Name: 32 characters		
	File Name: 32 characters		
	Folder Name: 32 characters		
ID3 Tag Support	 MP3 Tags: Version 1.0 ~ 2.4 		
	• WMA Tags		
	 Maximum number of files: 50000 		
	 Maximum number of folders: 255 (plus the root folder) 		
File/Folder Limit	Maximum number of files in each folder: 50000		
	Note: For devices with more than the maximum number of files/folders, some files will be ingnored and may not function properly.		
	 FAT/FAT32 file system supported. 		
USB/SD File System	HFS/NTFS/EXT2/EXT3 not supported.		
SD Card Capacity	16GB or less supported.		

Input



SiriusXM Vehicle Tuner Connections

SiriusXM Satellite Radio operation requires the connection of the Connecting the SiriusXM Vehicle Tuner SiriusXM-Connect Vehicle Tuner (sold separately). (sold separately) Note: The SiriusXM-Connect Vehicle Tuner must have the SiriusXM logo to be compatible with the X2DMA400. To connect the SiriusXM Vehicle Tuner, follow the instructions provided with the tuner. When connecting the tuner to the X2DMA400, the cable orientation should be connected as shown below. X2DMA400 Head Unit SiriusXM Vehicle SiriusXM-Ready **Tuner** Cable

Line up the connector with the pins on the cable. It can only be inserted as shown above. Push the cable into the head unit's connetor until it clicks. Attempting to insert the cable differently from shown above may cause damage to the cable or head unit.

SiriusXM Vehicle Tuner Operation

SiriusXM Satellite Radio Overview	Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. A SiriusXM Vehicle Tuner (sold separately) and Subscription are required. For more information, visit www.siriusxm.com.	
	Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved.	
Tuner Activation	To listen to SiriusXM Satellite Radio, a subscription is required. Activate the SiriusXM Vehicle Tuner using one of the two methods below:	
	• Online: Go to www.siriusxm.com and choose ACTIVATE RADIO.	
	• Phone: Call 1-800-XM-RADIO (1-800-967-2346).	
	Activation typically takes 10-15 minutes, but may take up to an hour. It is recommended to leave your vehicle on until the "Subscription Updated" message appears.	



SiriusXM Vehicle Tuner Operation

Radio ID	To view the Radio ID on the LCD, turn the tuning knob left or right until channel 0 appears. The 8 character Radio ID will appear on the display. The Radio ID is also printed on the underside of the SiriusXM Vehicle Tuner.		
	Note: The Radio ID does not use the letters I, O, S, F.		
Listening to SiriusXM Satellite Radio	After installation of the SiriusXM Vehicle Tuner, press SOURCE until SiriusXM mode appears to begin listening to SiriusXM Satellite Radio.		
Changing Channels	Turn the tuning knob left/right to change SiriusXM channels.		
Band	Press BAND to select between the SXM1, SXM2 and SXM3 bands. Up to six presets can be programmed for each band, for a total of 18 SiriusXM Satellite Radio channel presets.		
Setting Channel Presets	To store a channel, choose the desired Band (SXM1-SXM3), then tune to the desired channel. Press and hold the desired preset button (1-6) on the front panel or remote control for more than two seconds. When stored, a beep sound will be heard and the preset number will appear in the display.		
Recalling Channel Presets	The preset channel can be recalled by pressing the corresponding preset button.		
	Note: Buttons 7,8,9,0 on the remote control are not associated with channel presets.		
Channel Search List	Browse through a list of all available channels.		
	 Press SELECT to begin browsing the channel list. Turn the tuning knob to cycle through the list of channels. Press SELECT to begin listening to the highlighted channel. 		
	Note : Press DISP to change between the channel name, artist name, song title or content info.		
Category Search	Browse through a list of categories, and choose a channel in the desired category.		
	 To begin, press TRACK ►► or TRACK ◄< to cycle through a list of categories. Category search can also be performed by pressing CAT UP or CAT DOWN on the remote control. Once the desired category is displayed, turn the tuning knob to browse all the channels in the selected category. Press SELECT to begin listening to the currently displayed channel. 		



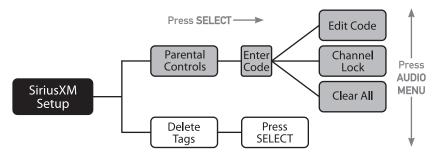
SiriusXM Vehicle Tuner Operation

SiriusXM Setup Menu

To access the SiriusXM setup menu options, press and hold **AUDIO/MENU** for more than 3 seconds, press **AUDIO/MENU** to cycle through menu options until "SIRIUSXM SETUP" appears, then press **SELECT**. Press **AUDIO/MENU** to cycle through the list of submenu options.

Function	Action	Options	Description
	EDIT CODE	Choose this option to program a new 4-digit code. Enter the new code using the input method described below*.	
Parental Controls	*Enter Code (default: 0000)	CHANNEL LOCK	Allows channels to be locked, requiring the 4-digit code to be entered before the channel becomes available in the channel lineup. Once selected, the channel list will appear. • Turn the tuning knob to cycle through the list of channels • Press SELECT to lock the desired channel. • Pressing SELECT on a locked channel will unlock it.
	CLEAR ALL	Choose this option to reset the locked channels back to the factory default. All currently subscribed channels will be unlocked.	
Delete Tags (iTunes Tagging)	Press SELECT to confirm		Deletes all Tags that are saved in memory. (Does not affect Tags that have been transferred to an iPod device.)

SiriusXM Setup Menu Navigation



*To enter a 4 digit code, choose from the two options below:

- Enter the 4 digit code using the remote control, by pressing the numbers directly. The default code is "0000" if the code has not be changed with the "EDIT CODE" feature. Press **SELECT** to confirm.
- Turn the **tuning knob** to select the first digit, then press **SELECT**. Continue with the remaining digits until all 4 digits have been entered. Press **SELECT** to confirm.



SiriusXM Vehicle Tuner Operation

Displayed Information

Display	Press DISP to cycle between the following options:			
	(LINE 1) (LINE 2) CHANNEL NAME ARTIST CONTENT INFO CATEGORY SONG CLOCK			
CHANNEL	Displays the name of the SiriusXM channel.			
CATEGORY	Displays the category type of the current channel.			
ARTIST	Displays the artist's name from the currently playing song.			
TITLE	Displays the song title from the currently playing song.			
INFO	Displays special channel information from the current channel.			

SiriusXM Advisory Messages

Message	Description	
CHECK TUNER	• Check the SiriusXM tuner connection behind the X2DMA400 to ensure that its correctly connected.	
CHECK ANTENNA	 Ensure the SiriusXM antenna cable is connected to the SiriusXM tuner correctly. Check the SiriusXM antenna wire for breaks or sharp bends. Replace the antenna if necessary. Press RESET located on the bottom right corner of the front panel. If the message remains, the antenna may have been damaged. 	
NO SIGNAL	 The vehicle must be outside, and the antenna must have a clear view of the southern sky. The magnetic antenna must be mounted on the outside of the vehicle for the best reception. 	
CHANNEL UNSUB	 This channel is not included in your SiriusXM subscription plan. Call 1-800-XM-RADIO (1-800-967-2346) to subscribe. 	
CHANNEL UNAVAIL	 This channel is not a valid SiriusXM channel. The channel number has been entered incorrectly, or the channel was removed from the SiriusXM channel lineup. 	
CHANNEL LOCKED	 The selected channel has been locked by the parental control option. A prompt to enter the unlock code will appear. Enter the unlock code as described on page 22. 	
SUBSCRIP UPDATED	 An update to your SiriusXM subscription has been received by the SiriusXM tuner. Press any key to continue. 	



iTunes[®] Tagging Operation

Requirements	The iTunes Tagging feature of the X2DMA400 requires the optional SiriusXM Vehicle Tuner (sold separately).
Overview	iTunes Tagging allows the user to "Tag" songs that are playing on SiriusXM Satellite Radio channel and enables them to be purchased later through iTunes. With the touch of a button the unit will remember the title and artist song information, and then transfer that information to your iPod device the next time you connect it to the X2DMA400. A new list called "Tagged" will appear in iTunes, giving you the option to purchase each song.
	Tagging Music
Step 1	Tune to a SiriusXM channel. The MUTE/TAG button will illuminate red, indicating that a valid artist name and song title are available.
Step 2	Press and hold the MUTE/TAG button. A confirmation will be displayed, indicating that the song information has been saved. The song information will be saved in memory until an iPod device is plugged in. Up to 64 SiriusXM Tags can be saved before they must be transferred or deleted.
Step 3	 Transfer Tags to an iPod/iPhone. Connect an iPod/iPhone device. The mode will change to operation of iPod and Tags will be automatically transferred to the device, removing the Tags from the X2DMA400's internal memory. A confirmation message will appear confirming the number of tags sent. The X2DMA400 must remain in operation of iPod mode until the "TAGS SENT" message is displayed.
	 If an iPod/iPhone device is connected when a song is tagged, Tags will transfer automatically to the device. The unit must remain in SiriusXM mode until the "TAGS SENT" message is displayed. (See page 17 for compatibility with iPod devices.)
	Note : Tags can only be sent from SiriusXM or operation of iPod modes.
Step 4	Sync with iTunes . A list named "Tagged" will appear on the left in the iTunes software. Click on the "Tagged" list to view all the songs that have been tagged and click the "view" button for purchase information.
Deleting All Tags	Press and hold AUDIO/MENU to enter the setup menu and select the "Delete Tags" option. See page 22 for details.
	Note: Once transferred, Tags are managed from the iTunes software.



iTunes® Tagging Operation

Troubleshooting

Displayed Message	Description
CHECK iPod VER	There is a compatibility issue with the iPod device that is connected. Check the list of compatible iPod devices below.
	If the attached iPod device is compatible, update the firmware to the latest version using iTunes.
SENDING TAGS	Tags are being sent to the iPod device. This process can take several minutes depending on the number of Tags being sent.
iPod FULL	There is not enough space on the connected iPod device to transfer the iTunes Tags. Free up space using iTunes.
TRANSFER FAILED	Connection error. Ensure the iPod device is powered on and reconnect the iPod device until a confirmation is displayed.
ALREADY TAGGED	The same song has already been tagged from the same channel, and is currently saved in memory. The same song cannot be tagged twice - unless the song is tagged on a different channel, the Tags are sent to an iPod device or the tags are erased.
MEMORY FULL CONNECT iPod	The internal memory will hold 64 SiriusXM Tags. An iPod device must be connected to transfer the Tags, or the Tags must be deleted before more songs can be tagged.
NO TAG INFO	There is not sufficient information (artist or title) to tag the song. Some HD Radio stations or SiriusXM channels or certain songs may not fully support iTunes Tagging.
TAGGING FAILED	There was an error saving the Tag information to the internal memory. Press and hold the MUTE/TAG button again.
NO TAGS STORED	There are no tags saved in the internal memory. The Delete Tags function can only delete Tags that are saved in the internal memory.

Device Compatibility with iTunes Tagging	Compatible with: • iPod touch (4th generation) • iPod touch (3rd generation) • iPod touch (2nd generation) • iPod classic • iPod nano (6th generation) • iPod nano (5th generation) • iPod nano (4th generation) • iPhone 4 • iPhone 3GS • iPhone 3G
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Note: Some iPod devices may require you to select 'transfer purchases' in the context menu from the name of your iPod device to transfer Tags to iTunes.

Go to www.apple.com/itunes for the latest version of the iTunes software.



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?

- 1. 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.



Troubleshooting - General

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
PROTECT appears on display	The WMA file is copy-protected by DRM (Digital Rights Management)	Write disc using WMA files that are not copy-protected
NO FILE appears on display	Selected file is not available in direct or alphanumeric search modes	Repeat search using valid parameters
NO SUPPORT appears on display	An invalid ID3 tag version is present	Version 1.0 to 2.4 ID3 tags are supported.



Specifications

FM Tuner	Tuning range: 87.5MHz-107.9MHz Usable sensitivity: 8.5dBf 50dB quieting sensitivity: 10dBf Stereo separation @ 1kHz: 40dB Frequency response: 30Hz-13kHz
AM Tuner	Tuning range: 530kHz-1710kHz Usable sensitivity: 22uV Frequency response: 30Hz-2.2kHz
General	Speaker output impedance: 4~8 ohms Line output voltage: 2 Volts RMS Dimensions: 7" x 6.7" x 4" (178 x 170 x 100 mm)
USB/SD Card	File system: FAT, FAT32 File extensions support: .mp3, .wma SD Card maximum device capacity: 16GB
	Design and specifications subject to change without notice.



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

Power Output: 18 Watts RMS x 4 channels at 4 ohms and \leq 1% THD+N Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)



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.



Notes



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