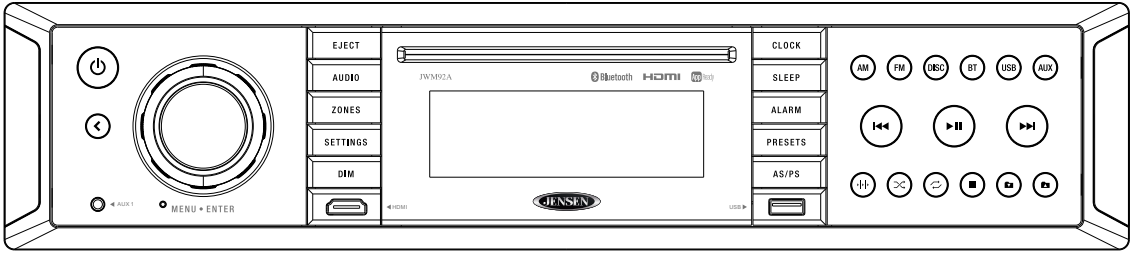
DESIGNED TO MOVE [YOU]®

JWM92A

MOBILE AUDIO SYSTEM

Installation and Owner's Manual



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INTRODUCTION

Thank You!

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Jensen receiver for maximum enjoyment.

Features

Features of Jensen JWM92A mobile audio system include:

- Multi-Source Playback Support
- Independent Zone Volume Control
- Digital AM/FM Tuner/30 Preset stations (12AM/18 FM)
- Bluetooth Ready with A2DP/AVRCP Streaming Audio
- APP Ready(iOS and Android)
- Pre-set Equalizer -5 settings (User > Flat > Pop > Classical > Rock)
- Electronic Controls for Volume, Bass, Treble, Balance, Fader and Subwoofer
- DVD/CD-R/RW and MP3 Compatible
- HDMI Video Output with JCOM link
- HDMI ARC
- Time/Alarm Clock
- White LED Backlit LCD
- 1/8" Front Auxiliary Audio Input
- Rear Audio RCA Inputs/Outputs
- USB Playback of MP3/WMA Files
- 3 Zone / 8 Speaker Output
- Wireless Remote Control Included

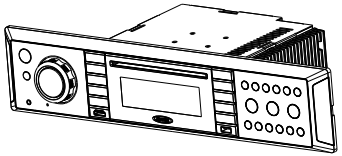
Precautions

- **Use the Proper Power Supply.**
  This product is designed to operate with a 12 volt DC, negative ground battery system (the standard system in a North American vehicle).
- **Protect the Disc Mechanism.**
  Avoid inserting any foreign objects into the slot of this player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.
- **Use Authorized Service Centers.**
  Do not attempt to disassemble or adjust this precision product; contact a professional for assistance.
- **Avoid Moisture**.
  To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- **Avoid Cleaning Products.**
  The front of this unit should only be cleaned with a slightly damp cloth. Do not use cleansers.
- **Use Recommended Accessories**.
  TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

CAUTION: This mobile DVD player is a Class I laser product that uses a visible/invisiblelaser beam which could cause hazardous radiation exposure if improperly directed. Be sure to operate the mobile DVD player as instructed. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not attempt to repair the unit yourself.
Refer servicing to qualified personnel.

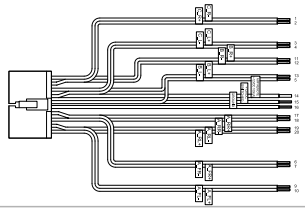
Packing List

JWM92A



Remote Control

20-PIN Speaker Wire



AUX AUDIO/VIDEO CABLE

DISC NOTES

Depending on the recording status, conditions of the disc, and the equipment used for recording, some CD-Rs/CD-RWs may not play on this unit. For more reliable playback, please adhere to the following recommendations:

- Use CD-RWs with speed 1x to 4x and write with speed 1x to 2x.
- Use CD-Rs with speed 1x to 8x and write with speed 1x to 2x.
- Do not play a CD-RW which has been written more than 5 times.

Disc Maintenance

- A dirty or defective disc may cause sound dropouts while playing. Before playing, wipe the disc using a clean cloth, working from the center hole towards the outside edge. Never use benzene, thinners, cleaning fluids, anti-static liquids or any other solvent.
- Be sure to use only round CDs for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.
- Do not stick paper or tape on the disc. Do not use CDs with labels or stickers attached or that have sticky residue from removed stickers.
- Do not expose discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a vehicle parked in direct sunlight where there can be a considerable rise in temperature inside the vehicle.

Insert label side up.	Do not bend.	Never touch the underside of the disc.	Wipe clean from this center to the edge.

NOTE: A disc may become scratched (although not enough to make it unusable) depending on how you handle it and other conditions in the usage environment. These scratches are not an indication of a problem with the player.

INSTALLATION

It's a good idea to read all of the instructions before beginning the installation. We recommend having your Jensen JWM92A installed by a reputable RV dealership.

Tools and Supplies

You will need these tools and supplies to install your JWM92A:

- Phillips screwdriver
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 16 gauge wire for power connections
- 16 – 18 gauge speaker wire
- Four M3x20mm (3/32 x 0.75") screws

Disconnecting the Battery

To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation.

NOTE: If the JWM92A is to be installed in a vehicle equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.

Selecting the Mounting Location

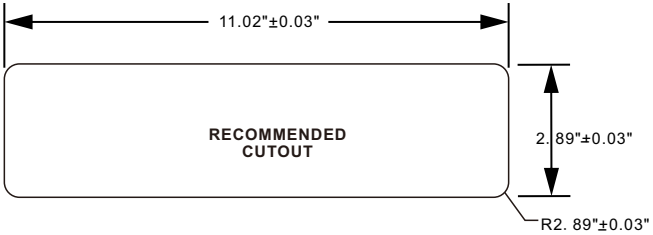
Select a mounting location, taking care to avoid the following:

- Places exposed to heat-radiating appliances such as electric heaters
- Adjacent to other equipment that radiates heat
- Poorly-ventilated or dusty places
- Moist or humid locations

Mounting the Radio

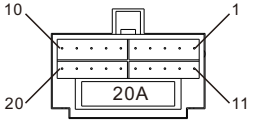
- Use the mounting hole diagram to measure and cut a mounting hole
- Route power, speakers, AV, and antenna cables through the hole and connect
- Check and ensure correct operation
- Mount the unit using four M3x20mm (3/32 x 0.75") screws
- Attach Trim ring

NOTE: Before cutting the mounting hole, make sure the area behind the mounting location is clear of wires, fuel and vacuum or brake lines.



WIRING

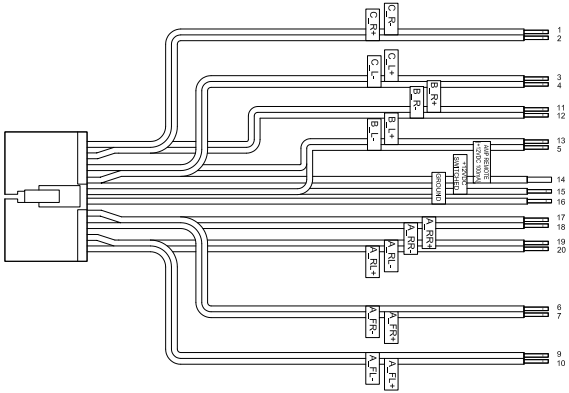
The wiring diagram depicts all the wiring connections required for proper operation of the unit.



DETAIL A
SHOWN FROM PIN VIEW

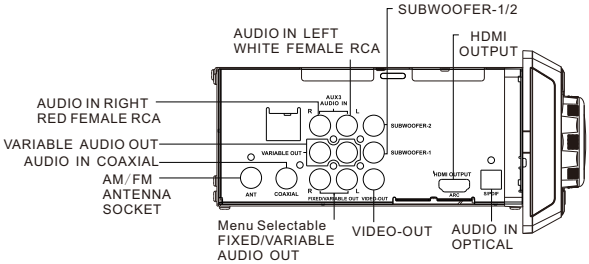
PIN NO.	WIRE COLOR	DESCRIPTION
1	PINK/BLACK	RIGHT (C) SPEAKER (-)
2	PINK	RIGHT (C) SPEAKER (+)
3	GREEN	LEFT (C) SPEAKER (+)
4	GREEN/BLACK	LEFT (C) SPEAKER (-)
5	BROWN/BLACK	LEFT (B) SPEAKER (-)
6	GRAY	FRONT RIGHT (A) SPEAKER (+)
7	GRAY/BLACK	FRONT RIGHT (A) SPEAKER (-)
8	N/A	N/A
9	WHITE/BLACK	FRONT LEFT (A) SPEAKER (-)
10	WHITE	FRONT LEFT (A) SPEAKER (+)
11	ORANGE	RIGHT (B) SPEAKER (+)
12	ORANGE/BLACK	RIGHT (B) SPEAKER (-)
13	BROWN	LEFT (B) SPEAKER (+)
14	BLUE	AMP REMOTE (+12VDC 100mA)
15	RED	+12VDC SWITCHED
16	BLACK	GROUND
17	VIOLET	RIGHT REAR (A) SPEAKER (+)
18	VIOLET/BLACK	RIGHT REAR (A) SPEAKER (-)
19	LIGHT GREEN/BLACK	LEFT REAR (A) SPEAKER (-)
20	LIGHT GREEN	LEFT REAR (A) SPEAKER (+)

WARNING: Wiring harness comes with stripped and tinned leads to aid in the installation process. Any unused speaker wires must have their exposed ends cut off or insulated individually.

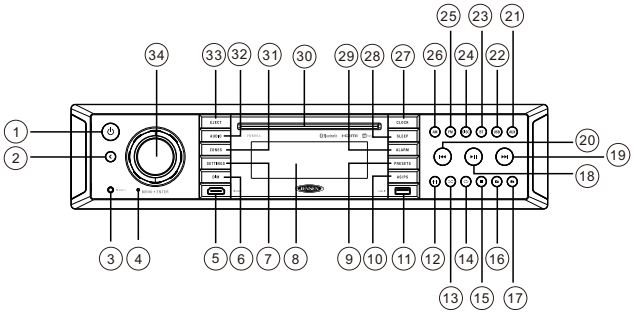


CONNECTIONS

The diagram below depicts all the available audio/video connections available to use with your system.



BASIC OPERATION



Power

Press the **POWER** button (1) to turn the unit on.
The unit will resume at the last mode (Tuner, Aux, etc.).

Zones Volume Control

1.Press the **ZONES** button (31) to enter the zone menu.
2.While in the zone menu, press **ZONES** (31), or the **|<<** or **>>|** buttons (20, 19) repeatedly to navigate through the zones menu settings (ZONE A mode, ZONE A volume adjustment, ZONE B mode, ZONE B volume adjustment, ZONE C mode and ZONE C volume adjustment).
NOTE: Zone A also controls the output of the rear line level audio output(When set to variable).
3.While in zone selection mode, rotate the **VOL/ENTER** knob (34) to select the active zone's mode. While in zone volume adjustment, rotate the **VOL/ENTER** knob (34) to adjust the volume for that zone.

Zone Mute

While in zone menu volume adjustment (see above), press and hold the **ENTER** knob button to mute the audio output of the active zone's volume. Rotate the **VOL/ENTER** knob (34) to restore the previous volume level.

Pause / Mute

During RADIO / FRONT AUX / REAR AUX / COAXIAL / OPTICAL / HDMI ARC / HDMI IN mode, press the ▶|| button (18) to mute the audio output for active zones. Press again to restore the previous volume level.

During USB / DVD / BT mode, press the ▶|| button to pause playback. Press again to resume playback.

Audio Menu Setting

1.Press the **AUDIO** button (32) to access the audio menu.
2.Press the **|<<** or **>>|** buttons (20, 19) or **AUDIO** button repeatedly to navigate through the audio menu items.
3.Once the desired menu item appears on the display, adjust that option by rotating the **VOL/ENTER** knob (34) clockwise or counter-clockwise within 5 seconds.
4.Press the **BACK** button (2) to confirm your selection and exit audio menu. The unit will automatically exit the audio menu after 5 seconds of inactivity.

The following items can be adjusted:

- BASS: Adjust the Bass level from "-7" to "+7".
- TREBLE: Adjust the treble from "-7" to "+7".
- BALANCE: Adjust the Balance between the left and right speakers output from "LEFT 7" (full left) to "RIGHT 7" (full right).
- “BALANCE 0” indicates equal balance between the left and right speakers.
- FADE: Adjust the speaker fade between the rear and front speakers from “REAR 7” (full rear) to “FRONT 7” (full front).
- “FADE 0” indicates equal balance between the rear and front speakers.
- LOUDNESS: Toggle the loudness on/off. When listening to music at low volumes, this feature will boost the bass/treble range to compensate for the characteristics of human hearing.
- SUBWOOFER: Set the subwoofer volume output. The maximum volume setting is “40”.
- EQUALIZATION: Choose one of the following pre-defined bass and treble curves: POP > CLASSICAL > ROCK > FLAT.

System Menu Setting

1.Press the **SETTINGS** button (7) for 2 seconds to access the system menu.
2.Press the **|<<** or **>>|** buttons (20, 19) or **SETTINGS** button repeatedly to navigate through the system menu items.
3.Once the desired menu item appears on the display, adjust that option by rotating the **VOL/ENTER** knob clockwise or counter-clockwise within 5 seconds.
4.Press the **BACK** button (2) to confirm your selection and exit audio menu. The unit will automatically exit the audio menu after 5 seconds of inactivity.
The following items can be adjusted:

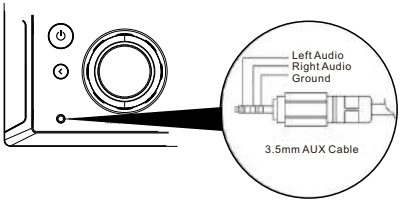
- BLUETOOTH DEVICE (Lock/Unlock, Disconnect/Connect, Delete): View, lock and delete from a list of previously paired mobile phone device models.
- BLUETOOTH (ON/OFF): Choose “Bluetooth On” or Bluetooth Off”.
- BEEP (ON/OFF): Turn the audible beep On/Off (heard when functions/buttons are selected).
  Note: Beep tone off will not affect the audible tone of the alarm clock.
- REGION (USA/EUROPE): Set frequency spacing for various regions.
- PRESET VOL (1-40): Select an automatic turn on volume.
- RCA out VARIED/FIXED: When VARIED is selected, the volume output of RCA out is adjustable by rotating the volume encoder knob. When FIXED is selected, the volume output of RCA out is fixed at maximum output.
- RESET <ENTER>: Press the **ENTER** button to return the JWM92A to factory default settings.

Auxiliary Input Function

When a portable audio device is connected to the unit, press the **AUX** button (21) repeatedly until FRONT AUX / REAR AUX mode is selectable, then press **ENTER** (34) knob to enter the FRONT AUX / REAR AUX mode. To connect a portable audio device, insert a standard 3.5mm (audio line output or headphone output from your portable CD / MP3 or other media player) into the AUX connector (AUX FRONT) (3) on the front of the unit or the AUX-IN RCA jack (AUX REAR) on the left chassis of the unit.

Auxiliary Input Connector

For front panel audio input, an external audio source can be connected to the front panel audio input with a 3.5mm audio cable adapter. Connect the device to the **AUX** connector (3) on the front panel.
In addition to front panel auxiliary input source, the unit can also be connected to the RCA audio input through the AUX-IN RCA jack on the left chassis of the unit.



Coaxial

When a portable audio device is connected to the unit, press the **AUX** button repeatedly until COAXIAL mode is selectable, then press **ENTER** (34) to enter the COAXIAL mode. To connect a portable audio device, connect the coaxial cable output from your portable CD / MP3 or other media player into the Coaxial Jack on the left of the unit.
Refer to “Multi source mode” on page 11 for operating instructions.

Optical

When a portable audio device is connected to the unit, press the **AUX** button repeatedly until Optical mode is selectable, then press **ENTER** (34) to enter the Optical mode. To connect a portable audio device, connect the optical cable output from your portable CD / MP3 or other media player into the Optical Jack on the left of the unit.
Refer to “Multi source mode” on page 11 for operating instructions.

HDMI IN

When a portable audio device is connected to the unit, press the **AUX** button repeatedly until HDMI IN mode is selectable, then press **ENTER** (34) to enter the HDMI IN mode. To connect a portable device with HDMI output ports, connect the HDMI cable from your portable device into the HDMI IN Interface (5) on the front left of the JWM92A.
Refer to “Multi source mode” on page 11 for operating instructions.

HDMI devices**

When a portable audio device is connected to the unit, press the **AUX** button repeatedly until HDMI IN mode is selectable, then press **ENTER** (34) to enter the HDMI IN mode. To connect a portable device with HDMI output ports, connect the HDMI cable from your portable device into the HDMI IN Interface (5) on the front left of the JWM92A.
Refer to “Multi source mode” on page 11 for operating instructions.

Amazon Fire Stick streaming device:
http://www.amazon.com *

Roku HDMI streaming device:
http://www.roku.com/products/compare *

Warning: Using the front USB input for powering your HDMI streaming stick is not recommended. We suggest using a wall adapter power supply to power your HDMI streaming stick.

Notes:
* Web links can change over time; if the above links do not function go to your device manufacturer's or smartphone service provider's web site for more information.
** These devices require connection to Wi-Fi or a hotspot in order to stream video content from providers such as Netflix, Hulu, Crackle, etc..

Caution: Streaming video can consume large amounts of data when a smartphone is used as a hotspot. Data rates may apply. See your mobile phone service provider for details.

USB Interface Connector

You can connect a USB device directly to **USB** interface (11) on the front of the JWM92A for playback of compatible files. Press the **USB** button (22) to switch to USB mode from another source for active zone.

NOTE: USB will not support Apple device playback. The USB input supplies up to 1A of charging current.

Liquid Crystal Display (LCD)

The current activated functions and time are shown on the LCD panel (8).

Dimming control

- 1. Press the DIM button (6) on the front panel to turn the dimmer On (selected brightness level) and press again to turn the dimmer Off (maximum brightness level).
- 2. Press & Hold the DIM button (6) to access DIMMER LEVEL menu.
- 3. Rotate the volume knob clockwise to increase or counter-clockwise to decrease the brightness of button and LCD backlight from “BRIGHTNESS 0” to “BRIGHTNESS 8”. “BRIGHTNESS 0” indicates the LCD backlight is turned off.
- 4. Press the BACK button (2) to confirm your selection and exit menu.

NOTE: When subjected to cold temperatures for an extended period of time, LCD panels will take longer to illuminate and the display visibility may slightly decrease. Optimal LCD operation will return to normal when the temperature increases to a normal range.

Clock Setup

Press the **Clock** button (27) to access clock set up mode. The hour clock digit will flash, Rotate the **VOL/ENTER** knob clockwise or counter-clockwise to adjust the hour. Press the ENTER knob to access the minute adjustment. Press the **ENTER** knob again to save the clock. If the new time is not confirmed by pressing the **ENTER** button, the unit will automatically exit the clock setting menu after 10 seconds of inactivity and the new time will be set.

Sleep Mode Setup

The sleep timer will automatically turn off the JWM92A in designated number of minutes. To set the Sleep Time, press the **SLEEP** button (28) and the sleep time will appear in the display with the number representing the minutes (SLEEP 15). Press the **SLEEP** buttons (28) or rotate the **VOL/ENTER** knob clockwise or counter-clockwise to change the sleep time from SLEEP OFF, 15, 30, 45 or 60 minutes.

Alarm Setup

The alarm will turn on the unit from standby at a specific set time. Last mode will play. Press the **ALARM** button (29) to turn alarm function on or off.
Press and hold the **ALARM** button to access alarm setting, the hour clock digit will flash, Rotate the **VOL/ENTER** knob clockwise or counter-clockwise to adjust the hour. Press the **ENTER** knob to access the minute adjustment. Press the **ENTER** knob again to save the alarm time and return to ALARM ON/OFF setting.

Reset

The reset button should be activated for the following reasons:

- Initial installation of the unit when all wiring is completed
- Function buttons do not operate
- Error symbol on the display

Use a ball point pen or similar object to press the RESET button (4). This may be necessary should the unit display an error code.

HDMI ARC

Connect HDMI cable to JENSEN TV with ARC function and JWM92A radio head unit. If the set up and operation is correct, the TV audio will come out from the speaker of the head unit after switching to HDMI ARC mode.

No	Device Status		User Operation	Operation Results		Remarks
	Head Unit	TV		Head Unit	TV	
1	Power ON (HDMI ARC)	Power ON	Power OFF TV	Power OFF	Power OFF	
2	Power OFF	Power OFF	Power ON TV	Power OFF	Power ON	
3	Power OFF(Last mode is HDMI ARC before Power OFF)	Power OFF	Power ON Head Unit	Power ON (HDMI ARC)	Power ON (Last mode before power off)	
4	Power OFF(Last mode is HDMI ARC before Power OFF)	TV, AV, USB, HDMI(non HDMI ARC)	Power ON Head Unit	Audio Out	No Audio Out	If the TV can play the device automatically, there will be TV audio out. Otherwise, switch to USB mode to play the device.
5	Power ON(HDMI ARC)	TV, AV, USB, HDMI(non HDMI ARC)	Power OFF Head Unit	No Audio Out	Audio Out	
6	DISC Mode	Display disc content	Switch TV to another mode (such as TV, AV, USB, non-HDMI ARC mode)	Switch to HDMI ARC Mode and Audio out from Head unit in HDMI ARC mode	No Audio Out	
7	HDMI ARC Mode	TV, AV, USB, HDMI(non HDMI ARC)	Switch Head unit to another mode(Such as FM, Bluetooth, DVD or AUX)	No Audio out(No HDMI ARC Audio Out)	Audio Out	TV Speaker ON
8	HDMI ARC Mode	TV, AV, USB, HDMI(non HDMI ARC)	TV Audio Receiver OFF	No Audio Out	Audio Out	TV Speaker ON
			TV Audio Receiver ON	Audio Out	No Audio Out	TV Speaker ON
9	HDMI ARC Mode	TV, AV, USB, HDMI(non HDMI ARC)	TV CEC Mode OFF	No Audio Out	Audio Out	TV Speaker ON
			TV CEC Mode ON Audio Recevier ON	Audio Out	No Audio Out	TV Speaker ON

Multi-source Setup and Operation

The jControl App is suggested for easier control and navigation of the multi-source feature. Refer to page 19 for more information about the jControl App.

1.Press the **ZONES** button (31) to enter the zone menu.

2.While in the zone menu, press **ZONES** button (31), or the **|<<** or **>>|** buttons (20, 19) repeatedly to navigate through the zones menu settings (ZONE A mode, ZONE A volume adjustment, ZONE B mode, ZONE B volume adjustment, ZONE C mode and ZONE C volume adjustment).

3.While in zone mode selection, rotate the **VOL/ENTER** knob to cycle through the available modes. Available modes are AM, FM, BLUETOOTH, FRONT AUXILIARY, REAR AUXILIARY, COAXIAL OPTICAL, DISC and USB.

Or press the **AM, FM, DISC, BT, USB** or **AUX** button (26, 25, 24, 23, 22, and 21) to choose the desired mode for each zone mode setting.

Press the **AUX** button (21) repeatedly to cycle through the FRONT AUXILIARY, REAR AUXILIARY, COAXIAL, OPTICAL, HDMI ARC and HDMI IN.

4.Press **ENTER** knob (4) to confirm the mode selection.

NOTE: If Zone A is in AM, FM, BT, FRONT AUX or REAR AUX mode, the multi-source function cannot be activated. Zone B and Zone C source mode will follow Zone A.

If Zone A is in DISC, USB, COAXIAL, OPTICAL, HDMI IN or HDMI ARC mode, the following sources are selectable for Zone B: AM, FM, BT, FRONT AUX, REAR AUX as well as the current active Zone A source. Zone C source mode will follow Zone B.

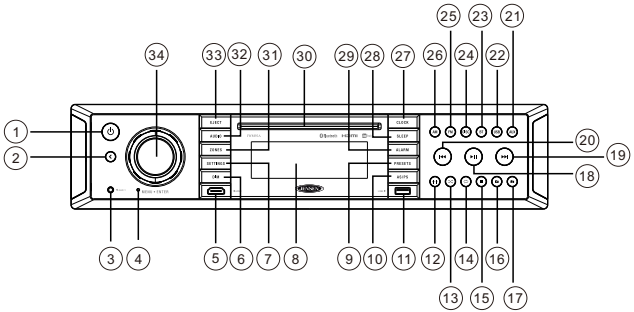
If Zone A and Zone B are both set to DISC, USB, COAXIAL, OPTICAL, HDMI IN, or HDMI ARC mode, the following sources are selectable for Zone C: AM, FM, BT, FRONT AUX, REAR AUX as well as the current active Zone A/B source.

NOTE: Refer to the Multi-source Zone Table for all possible Multi-source states.

Multi-source Zone Table

Zone A	Zone B	Zone C
AM, FM, BT, FRONT AUX or REAR AUX	Same source as Zone A	Same source as Zone A
DISC, USB, COAXIAL, OPTICAL, HDMI IN or HDMI ARC	AM, FM, BT, FRONT AUX, REAR AUX, or same source as Zone A	Same source as Zone B (AM, FM, BT, FRONT AUX, REAR AUX)
DISC, USB, COAXIAL, OPTICAL, HDMI IN or HDMI ARC	Same source as Zone A	AM, FM, BT, FRONT AUX, REAR AUX, or same source as Zone A/B

TUNER OPERATION



Select a Band

Press **AM** button (26) to select the AM band or press F**M** button (25) to select the FM band. Refer to “Multi source zone mode” on page 9 for detail of operating instructions

Manual Tuning

Press the **>>|**or**|<<** buttons (19, 20) to seek stations up/down step by step.

Auto Seek Tuning

Press and hold the **>>|** or **|<<** buttons (19, 20) to automatically seek to the next or previous strong station.

Preset Stations Menu

Store a Station

While in AM or FM mode,
1.Press the **PRESETS** button (9) to access the preset menu.
2.Press **I<<** or **>>I** buttons (19, 20) or rotate the **VOL/ENTER** knob to select the preset location to store.
3.Press and Hold the **ENTER** knob to store the current station at that preset location.
4.Press the **BACK** button (2) to exit presets menu.

Recall preset stations

1.Press the **PRESETS** button (9) to access the preset menu.
2.Press **I<<** or **>>I** buttons (19, 20) or rotate the **VOL/ENTER** knob to navigate the 12 and 18 preset stations for AM or FM respectively.
3.Press the **ENTER** knob to confirm the selection.
4.Press the **BACK** button (2) to exit preset menu

The LCD will display the current station on 1st line and the preset station selection on the 2nd line in presets menu.

Automatically Store / Preset Scan (AS/PS)

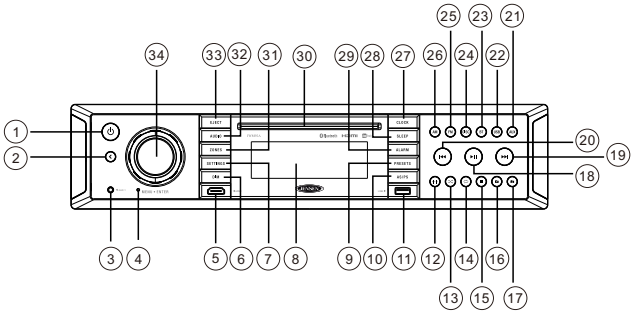
Automatically Store

Select AM or FM band. Press and hold the **AS/PS** button (10) for more than 3 seconds and the unit will automatically scan for and store 12 or 18 strongest stations for AM or FM respectively. To stop this function before the automatic storing is complete, press AS/PS button again.

Preset Scan

Select a band. Press **AS/PS** button to scan stations stored in the current band. The unit will pause for 10 seconds at each preset station. Press **AS/PS** again to stop scanning when the desired station is reached.

DISC OPERATION



CD OPERATION

Inserting a CD

Inserting a CD label-side up into the disc slot (30) and the disc will begin to play automatically.
Refer to “Multi source zone mode” on page 11 for detail of operating instructions

Ejecting a CD

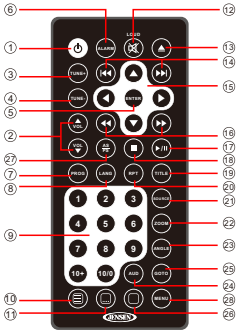
Press the **EJECT** button (33) to stop CD play and eject the CD

Pausing Playback

Press the ▶ **II** button (18) to suspend or resume disc play.

Stop Playback

Press the ■ button (15) to suspend disc play, and “PRE STOP” will appear on the display.
Press the ▶ **II** button (18) to resume disc play from the last position. Press ■ button twice and “STOP” will appear on the display.



Track Select

Press the **>>|** or **|<<** button (19, 20) to advance to the previous or next track on the CD. The selected track number will appear on the display. Press and hold the **>>|** or **|<<** button for more than three seconds to fast forward or fast reverse through the disc. CD play starts when the play/pause button is pressed.

Fast Forward/Reverse

Press and hold the **>>|** or **|<<** button (19, 20) or press the **>>** or **<<** buttons on the remote control (14) once for FORWARD X 2. Press and hold additional times for FORWARD X 4, X 8, X 20 or PLAY. Press the ▶ **II** button on the control panel (18) or remote control (17) to end fast forward or reverse and resume normal playback.

Intro Scan (INT)

Press the **INT** button (12) during disc play to play the first 10 seconds of each track on the current disc. Press **INT** again to end the scan and play the selected track.

Random Shuffle (RDM)

Press the **RDM** button (13) to play all tracks on a CD in random, shuffled order (RANDOM ON). Press **RDM** again to stop random play (RANDOM OFF).

Repeat (RPT)

Press the **RPT** button (14) during disc play to access the repeat function. Press again to continuously repeat the selected track (RPT ONE). Press a third time to repeat all tracks (RPT ALL). Press once more time to stop repeat function (RPT OFF).

Programmed Playback

1. Press the **PROG** button (7) on the remote control to access the programmed playback screen.
2. Use the◂ ▸or▴▾ cursor buttons (15) on the remote control to access the fields on the “PROG” screen.
3. Use the number buttons on the remote control to enter a track number in each field.
4. Press the ▶ /|| button (17) on the remote control or highlight “PLAY” on screen and then press the **ENTER** button (5) to begin playback in the numbered order indicated to delete the list, highlight “CLEAR” and then press ENTER. Press PROG to exit the programmed playback screen.

Remote Control Direct Track Entry

To select a track directly, use the number pad on the remote control (10). For single digit entries, press the corresponding number for two digit entries. Press the **10+** button followed by the last digit (i.e., for track 16, press 10+ and then 6).

GOTO Direct Track/Chapter Access

Use the GOTO function to access a track (chapter) directly.

1. Press the **GOTO** button (25) on the remote control. The On Screen Display information will appear with the track number highlighted.
2. Use the number keys on the remote control to enter the 3-digit track number directly (i.e. for track 10, enter "010")
3. Press the **ENTER** button (5) to confirm and begin playback.

CD Playback Information

The following information is displayed at the top of the screen during CD playback:

TRK ##/## –"1/18" indicates the first of 18 tracks on the CD is currently playing.

"X" indicates repeat play is OFF, "1" indicates repeat track, and "A" indicates repeat disc.

Press the ▢ button on the remote control (26) repeatedly to view the following information for elapsed/remaining playing time:

00:02:18 –total elapsed playing time of current track;
C –00 :34 :37–remaining playing time of current track;
T 00:02:18 –total elapsed playing time for current disc;
T–00 :34 :37 –remaining playing time for current disc.

DVD/VCD OPERATION

Inserting a Disc

Insert a disc label-side up into the disc slot (30) and the disc will begin to play.

***NOTE**: Press the **DISC** or **USB** button (24,22) to alternate between the USB and DVD source.*

Ejecting a DVD

Press the **EJECT** button (33) to stop DVD play and eject the DVD.

Pausing Playback

Press the **▶II** button (18) to suspend or resume disc play.

Stop Playback

Press the ■ button (15) to suspend disc play, and "PRE STOP" will appear in the display.

Press the **▶II** button (18) to resume disc play from the last position. Press ■ button twice and "STOP" will appear on the display.

Track Select

Press the **>>|** or **|<<** button (19, 20) to advance to the next or previous track on the disc. The selected track number will appear on the display.

Language Selection

While playing a DVD, press the FOLDER UP button to change the DVD audio language.

Fast Forward/Reverse

Press and hold the **>>|** or **|<<** button (20, 19) or press the **>>|** or **|<<** buttons on the remote control (14) once for FAST FORWARD/REVERSE X 2. Press and hold again for FAST FORWARD/REVERSE X 4, X 8, X 20 or PLAY. Press the **▶II** button the control panel or remote control (17) to end fast forward or reverse and resume normal playback.

Repeat Chapter/Title

Press the **RPT** button (20) on the remote control multiple times during playback to select from the following repeat play options:

- VCD: RER1 (track), RER ALL (disc), RPT OFF
- DVD: RER Chapter, RER Title, RPT All, RPT OFF

Playback Control (VCD Only)

Playback Control (VCD Only)

Press the **MENU** button (28) on the remote control to turn Playback Control on/off when this feature is available on your VCD.

Programmed Playback

1. Press the **PROG** button (7) on the remote control to access the programmed playback screen.

2. Use the ◄► or ▲▼ cursor buttons (15) on the remote control to access the fields on the "PROG" screen.
3. Use the number buttons on the remote control to enter a track number in each field.
4. Press the ►/|| button (17) on the remote control or highlight "PLAY" on screen and then press the **ENTER** button (5) to begin playback in the numbered order indicated to delete the list, highlight "CLEAR" and then press ENTER. Press PROG to exit the programmed playback screen .

DVD Playback Features

The following remote control features, along with many others, are available during DVD playback (see "Remote Control Operation" on page 20 & 21 for complete functionality):

- LANG: Press to choose an alternate audio language, if available.
- SUBTITLE: Press to select an alternate subtitle language, if available.
- ANGLE: Press to select an alternate viewing angle, if available.
- ZOOM: Press to zoom the picture at ZOOM 2, ZOOM 3, ZOOM 4, ZOOM 1/2, ZOOM 1/3 or ZOOM 1/4, or select OFF to return to normal view.

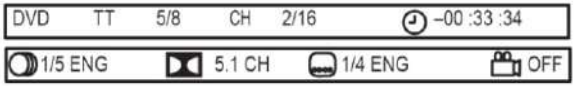
NOTE: Feature availability is dependent upon DVD embedded information.

Playback Information

During DVD and VCD playback, press the ▢ button (26) on the remote control to display playback information on the screen, including the media playing and current playback time.
Continue pressing the button to display additional information, as indicated below.

DVD Playback Information

The following information is displayed at the top of the screen during DVD playback:



TT 5/8 – "5 / 8" indicates the fifth of 8 titles on the DVD is currently playing.
CH 2/16 – "2 / 16" indicates that the second of 16 chapters on the DVD is currently playing.
Press ▢ repeatedly to view the following information: for elapsed/remaining playing time:

00:02:18 –total elapsed playing time of the current track;
C –00:34:37 –remaining playing time of the current track;
T 00:02:18 –total elapsed playing time for disc;
T –00:34:37 –remaining playing time for disc..

1/5 ENG –English is the selected audio language out of 5 possible choices;
5.1 CH –The current language is recorded in 5.1 surround sound;
1/4 ENG –English is the selected subtitle language out of 4 possible choices;
OFF –There are no alternate angles recorded for this scene.

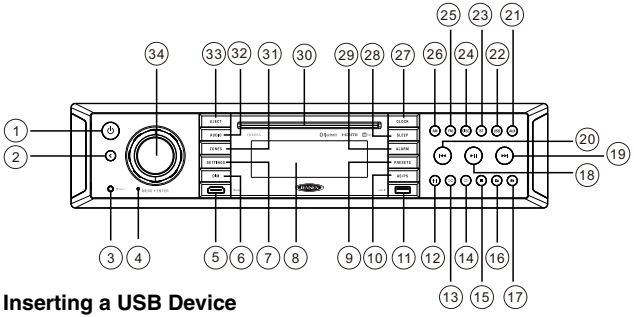
Remote Control Direct Track Entry

To select a track directly, use the number pad on the remote control (10).
For single digit entries, press the corresponding number for two digit entries. Press the **10+** button followed by the last digit (i.e., for track 16, press **10+** and then **6**).

GOTO Direct Track/Chapter Access

Use the **GOTO** function to access a track (chapter) directly.
1. Press the **GOTO** button (25) on the remote control. The On Screen Display information will appear with the track number highlighted.
2. Use the number keys on the remote control to enter the 3-digit track number directly (i.e. for track 10, enter "010").
3. Press the **ENTER** button to confirm and begin playback.

MP3/USB OPERATION



Inserting a USB Device

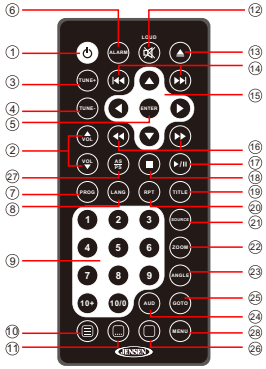
The **USB** connector (11) is at the bottom right corner of the panel. Insert a USB device and press the USB button to select USB mode. The LCD will display "LOADING" and "USB" while files are initially loaded.
When USB is removed, it will automatically back to the previous mode before the USB is connected. During other playback mode, when USB is connected, press **USB** button to enter USB playback mode directly.

NOTE: MP4 video format is not supported.

MP3 Specifications

Notes on MP3 Playback:

- Any directory that does not include an MP3 file is skipped
- Maximum number of folders: 512 (including skipped directories)
- Maximum number of folder levels: 12
- Maximum number of MP3 files: 999
- Maximum number of characters for MP3 files name and folder name: 32
- Maximum number of Characters of ID3 Tag:

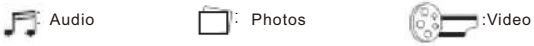


- ID3 Tag version 1.0: 32
- ID3 Tag version 2.x: 32

MP3 Monitor Display

After loading an MP3 disc or USB device, the following screen will appear on your output monitor

Select one of these icons to access the corresponding media on your disc or USB device. If the media type is not present, the icon will not be selectable.



Play/Pause

Press the ▶|| button (18) to suspend or resume disc play.

Track Select

When playback is stopped, press the **>>|** or **|<<** button (19, 20) or **>>|** or **|<<**(14) button on the remote control to advance to the next or previous track in the current folder. The selected track number will appear on the display.

Folder Up/Down

Press the **FOLDER UP** (17) to access a higher folder level.
Press the **FOLDER DN** (16) to access a lower folder level.

Intro Scan (INT)

Press the **INT** button (12) during disc play to play the first 10 seconds of each track on the current disc. Press **INT** again to end the scan and play the selected track.

Repeat (RPT)

Press the button (14) on the control panel or the **RPT** button (20) on the remote control multiple times during playback to select from the following repeat play options: RPT 1 (track),RPT DIR (folder), RPT ALL (disc), OFF.

Random Shuffle (RDM)

Press the button (13) during song playback to play all files in random, shuffled order. Press **RDM** again to stop random play.

Fast Forward/Reverse

Press and hold the **>>|** or **|<<** buttons or press the **>>** or **<<** buttons on the remote control (16) once for FORWARD X 2. Press and hold additional times for FORWARD X 4, X 8, X 20 or PLAY.

Press the **▶||** button on the control panel (18) or remote control (17) to end fast forward or reverse and resume normal playback.

Programmed Playback

1. Press the **PROG** button (7) on the remote control to access the programmed playback screen.
2. Use the ◄ ► or ▲ ▼ cursor buttons (15) on the remote control to access the fields on the "PROG" screen.
3. Use the number buttons on the remote control to enter a track number in each field.
4. Press the **▶/||** button (17) on the remote control or highlight "PLAY" on screen and then press the **ENTER** button (5) to begin playback in the numbered order indicated To delete the list, highlight "CLEAR" and then press **ENTER**. Press **PROG** to exit the programmed playback screen."

Remote Control Direct Track Entry

To select a track directly, use the number pad on the remote control (10).
For single digit entries, press the corresponding number for two digit entries.
Press the **10+** button followed by the last digit (i.e., for track 16, press **10+** and then **6**).

GOTO Direct Track/Chapter Access

Use the **GOTO** function to access a track (chapter) directly.

1. Press the **GOTO** button (25) on the remote control. The On Screen Display information will appear with the track number highlighted.
2. Use the number keys on the remote control to enter the 3-digit track number directly (i.e. for track 10, enter "010")
   Press the **ENTER** button (5) to confirm and begin playback.

BLUETOOTH OPERATION

The JWM92A includes built-in Bluetooth technology that allows you to connect this head unit to Bluetooth devices for streaming audio playback.

About Bluetooth Technology

Bluetooth wireless technology is a short-range wireless radio protocol. Operating in the 2.4 GHz range, it transmits audio and data at speeds up to 2.1 Mbit/s over a range of up to 10 meters.

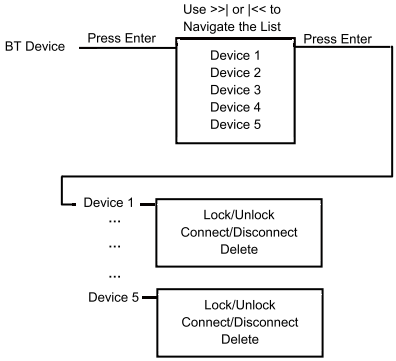
Bluetooth On/OFF

Bluetooth mode is turned ON by default. Bluetooth can be turned OFF to reduce the standby current draw of the JWM92A. Press the **SETTINGS** button (7) to enter menu adjustment mode. Repeatedly press the **>>|** or **|<<** buttons (20, 19) or **SETTINGS** button to access BLUETOOTH ON/OFF. Rotate the **VOL/ENTER** knob to select ON or OFF.

Bluetooth Menu Options

NOTE: Please note that some Bluetooth menu options are only available while the unit is in Bluetooth Audio mode.

Press the **SETTING** button (7) to enter menu adjustment mode. Repeatedly press the **>>|** or **|<<**buttons (19, 20) or **SETTING** button to access the "Bluetooth Device" menu. The following menu options are available when the unit is in Bluetooth mode.



- **BLUETOOTH PAIR:** Press the **ENTER** knob to make the JWM92A available to pair with a Bluetooth enabled device.
- **BLUETOOTH DEVICES:** Press the **ENTER** knob button to view a list of previously paired mobile devices models. Press the **>>|**or**|<<** buttons to view devices from the list. You cannot delete a device that is actively connected. Press the **ENTER** knob button to select the device. Press the **>>|**or **|<<** buttons to choose Locked/Unlocked, Connect/Disconnect or Delete for this device.
- **CONNECT/DISCONNECT:** To disconnect a paired device, press the **ENTER** knob button to temporarily remove the BT link. The link can be re-established through your phone menu by selecting the JWM92A for connection.
- **LOCKED/UNLOCKED:** The JWM92A can store up to 5 devices for BT connection. The devices are stored in FIFO (First In First Out) order. To prevent a device from being bumped from the list when more than 5 devices are used, you must lock the device. To Lock/Unlock a device, press the **ENTER** knob button.
- **DELETE:** To delete a device from the list, Press the **ENTER** knob button.

Pairing a Bluetooth Device

Before you begin, consult the owner's manual for the Bluetooth device you want to pair with the JWM92A.
Make sure the device you intend to pair with is on and ready to pair.

1. Press **BT** button (23) to enter Bluetooth mode.
2. Press & Hold **BT** button to start Bluetooth pairing process.
   The JWM92A will display "PAIRING" and will be available to pair for 120 seconds.
3. In your device Bluetooth settings, select"JWM92A" to connect.

Answering a Call

When answering a call using the connected phone, BT AUDIO will pause. After hanging up from the call, BT AUDIO will automatically resume on some phones. It may be necessary to press the play button to resume BT AUDIO.

Bluetooth Audio (A2DP)

The A2DP music is available for Bluetooth enabled phones when the phone is connected. To access Bluetooth mode and play songs stored in your phone, press the **BT** button (23) to enter the Bluetooth mode.

Selecting Tracks

During playback, press the **>>|** or **|<<** button (19, 20) to play the previous or next track.

Pausing Playback
During playback, press the ▶ II button (18) to pause the Bluetooth audio playback. "BT PAUSE" will appear on the LCD. Press ▶ II button again to resume playback.
If you change to another mode, the mobile device audio will pause. Press the **BT** button (23) to return to Bluetooth mode and resume mobile phone audio playback.

NOTE: If a Bluetooth device is disconnected due to the power being turned off or if the device is disconnected inadvertently, the unit will automatically search for the matching BT mobile phone when the power is restored.

APP OPERATION

JENSEN® Specialty Controller is the ultimate wireless remote control for your JENSEN stereo system. Store away your old remotes and enjoy the convenience of all the primary functions of your JENSEN stereo right from your phone or tablet by transforming your mobile device into a functional stereo remote control!

Features

This app controls all of the primary functions of your stereo features including:

- Power on/off
- Volume and mute
- CD/DVD player
- AM/FM radio tuner: access station, recall, store presets, switch songs
- Bluetooth® streaming audio
- File structure visibility, track selection, track audible scan up and down via USB
- Auxiliary audio input control –auxiliary analog 1 & 2, auxiliary digital coaxial, auxiliary digital optical
- Speaker selection A, B and/or C
- Audio menu controls- bass, treble, balance, fader, equalizer, volume and speaker selection settings
- Clock with sleep time and alarm
- Visual display feedback so you can see artist title and album on your mobile screen

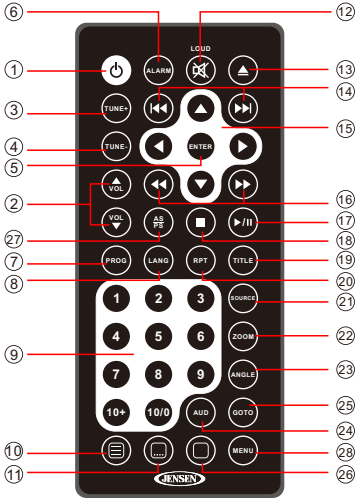
Connecting and using jControl app

After downloading and installing jControl app on your device, pair your device to the JWM92A as stated above for Bluetooth pairing.

When jControl is installed on Android operating system, close the app before Bluetooth pairing, otherwise there may be errors on Bluetooth connection.

REMOTE CONTROL OPERATION

REF	DESCRIPTION	TUNER	BLUETOOTH	CD/MP3/USB	DVD
1	Power	Turn radio on/standby mode.	Turn radio on/standby mode.	Turn radio on/standby mode.	Turn radio on/standby mode.
2	VOL +/-	Adjust volume up/down. Press for Audio Control Setup menu.	Adjust volume up/down. Press for Audio Control Setup menu.	Adjust volume up/down. Press for Audio Control Setup menu.	Adjust volume up/down. Press for Audio Control Setup menu.
3	TUNE +	Tune to higher station			
4	TUNE -	Tune to lower station			
5	ENTER			Confirm menu selection	Confirm menu selection
6	ALARM	Turn the alarm feature on/off.	Turn the alarm feature on/off.	Turn the alarm feature on/off.	Turn the alarm feature on/off.
7	PROG			Display Program Play Menu	Display Program Play Menu
8	LANG			Display MONO/L, MONO/R or STEREO.	Select alternate audio language, if available.
9	Numeric Keyboard	Use 1-6 to access preset stations.		Enter track number to access track directly. For track Number > 10, use 10+ followed by second digit.	Enter track number to access track directly. For track Number > 10, use 10+ followed by second digit.
10	Setup			View SETUP menu.	View SETUP menu.
11	Subtitle				Choose subtitle language, if available.
12	Mute/LOUD	Silence Audio output. Press and hold to turn LOUDNESS feature on/off.	Silence Audio output. Press and hold to turn LOUDNESS feature on/off.	Silence Audio output. Press and hold to turn LOUDNESS feature on/off.	Silence Audio output. Press and hold to turn LOUDNESS feature on/off.
13	Eject	Eject Disc.	Eject Disc.	Eject Disc.	Eject Disc.
14	Previous/Next		Select next/previous track.	Select next/previous track.	Select next/previous track.
15	Directional Buttons			Move to desired menu item and then press ENTER to confirm.	Use with DVD menu to move to desired menu item and then press ENTER to confirm
16	Fast Reverse/ Forward			Fast Forward 2X, 4X, 8X, 20X.Fast Reverse 2X, 4X, 8X, 20X.	Fast Forward 2X, 4X, 8X, 20X.Fast Reverse 2X, 4X, 8X, 20X.
17	Play/Pause Stop		Pause/resume playback	Pause/resume playback	Pause/resume playback
18	Stop			Stop playback.	Stop playback.



19	TITLE				Press to view title menu. Use directional arrows and play button to play selected title. May not be supported by all discs.
20	RPT			Repeat track	Repeat chapter
21	SOURCE	Select source for playback	Select source for playback	Select source for playback	Select source for playback
22	ZOOM				Zoom picture or press repeatedly to change magnification level.
23	ANGLE				Select alternate viewing angle, if available.
24	AUD	Access Audio Menu options.	Access Audio Menu options.	Access Audio Menu options.	Access Audio Menu options.
25	GOTO			Select exact time, track or chapter for playback.	Select exact time, track or chapter for playback.
26	Display			Display current playback information on the screen.	Display current playback information on the screen.
27	AS/PS	Browse preset stations (10 sec. interval). Press and hold to scan/store stations.			
28	MENU	Access system MENU.	Access system MENU.	Access system MENU.	Press to access system MENU. Press and hold to access DVD MENU.

DVD SETUP MENU

Press the (setup) button (10) on the remote control to access the SETUP menu and adjust system settings for the following categories:

- System Setup
- Language Setup
- Audio Setup
- Video Setup
- Digital Setup

While in the setup menus, use your directional arrows to select and change settings. The “up” and “down” arrows highlight the options, and the “right” and “left” arrows will change the setting for the highlighted option.

System Setup

The System Setup menu controls the following features:

- TV System: This item is used to select a TV signal system to match your TV set. Select one of the following options: AUTO, NTSC or PAL.
- Screen Saver: Turn Screen Saver feature On/Off.
- TV Type: Select one of the following picture formats: 4:3PS, 4:3 LB or 16:9. 4:3 is a letterbox selection, and 16:9 is wide screen.
- Password: This item allows the selection of a new four-digit code to use for security purposes.
- Rating: Select the parental control level for all DVD play. The security password is required to make changes to this feature.
- Default: Use this item to restore default settings at any time.

Lanuage Setup

The Language Setup menu controls the following features:

- On-Screen Display (OSD) Language: Set the OSD language to one of the following: English, German, Spanish, French.
- Audio Language: Set the audio language to one of the following:English, Japanese, French, Spanish, Portuguese, Latin or German.
- Subtitle Language: Set the subtitle language to one of the following: English, French, Spanish, Portuguese, German or OFF.
- Menu Language: Set the menu language to one of the following: English, French, Spanish, Portuguese, German.

Audio Setup

The Audio Setup menu controls the following features:

- Audio Out: This item defines the digital output format.
- Key: This item changes the audio output key.

Video Setup

The Video Setup menu controls the following features:

- Brightness
- Contrast
- Hue
- Saturation
- Sharpness

Digital Setup

The Speaker Setup menu controls the following features:

- OP Mode: Select LINE OUT or RF REMOD.
- Dynamic Range: Select FULL, 6/8, 4/8, 2/8 or OFF.
- Dual Mono: Select STEREO, MONO/L, MONO/R or MIX MONO.

CARE AND MAINTENANCE

- Keep the product dry. If it does get wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Keep the product away from dust and dirt, which can cause premature wear of parts.
- Handle the product gently and carefully. Dropping it can damage circuit boards and cases, and can cause the product to work improperly.
- Wipe the product with a dampened cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the product.
- Use and store the product only in normal temperature environments. High temperature can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.

Ignition

The most common source of noise in reception is the ignition system. This is a result of the radio being placed close to the ignition system (engine). This type of noise can be easily detected because it will vary in intensity of pitch with the speed of the engine.
Usually, the ignition noise can be suppressed considerably by using a radio suppression type high voltage ignition wire and suppressor resistor in the ignition system. (Most vessels employ this wire and resistor but it may be necessary to check them for correct operation.) Another method of suppression is the use of additional noise suppressors. These can be obtained from most CB/A radio or electronic supply shops.

Interference

Radio reception in a moving environment is very different from reception in a stationary environment (home). It is very important to understand the difference. AM reception will deteriorate when passing under a bridge or when passing under high voltage lines. Although AM is subject to environmental noise, it has the ability to receive at great distance. This is because broadcasting signals follow the curvature of the earth and are reflected back by the upper atmosphere.

TROUBLESHOOTING

Symptom	Solution
Radio will not turn ON or No front panel operation	Try the reset button.
	Check fuse.
	Check 12V+ on accessory wire to radio (RED wire)
	Check Ground.
Radio turns ON, but no sound	Verify Volume, Fader/Balance, Mute controls are set correctly (see owner's manual).
	Try the reset button.
	Verify proper speaker selection.
	Verify proper speaker connections.
	Check for shorts or open circuits on speaker wires. • If short on “A” channel, “B & C” channels will continue to function. • If short on “B and/or C” channels, “A” channel will continue to function.
Display is blank	Turn unit off and on to reset the display.
Bluetooth Device will not connect/pair	Make sure no devices are already connected. Disconnect any connected devices.
	On your smart device, turn the Bluetooth off and on and try again.
CD/DVD does not play correctly	Make sure unit has power and no other CD/DVD is currently inside.
	Make sure the disc is a compatible disc.
CD/DVD does not play correctly	Check to make sure disc is inserted correctly.
	Verify disc is free from dirt, scratches, etc.
	Check with factory Cds.
	Check factory original CDs for compatibility warnings (due to various copy-protection, multimedia content, etc.).
No AM or FM reception	Verify you are tuned to a valid station.
	Check your antenna connection on rear of stereo.
	Try a different antenna
DVD plays sound but no video	Make sure the HDMI cable is routed from the HDMI output to the input on the television.
Unit does not respond to Remote Control	Verify that you have a clear line of sight for the IR signal.
	Check the batteries.

SPECIFICATIONS

FM Tuner
Frequency Coverage (USA) . . . . . .87.5 to 107.9 MHz
Frequency Coverage (Europe) . . . . . 87.5 to 108 MHz
Sensitivity . . . . . <4 µV
Stereo Separation@1 kHz . . . . . >25 dB
AM Tuner
Frequency Range (USA). . . . . 530-1710 kHz
Frequency Range (Europe). . . . . 522-1620 kHz
Sensitivity (S/N=20dB) . . . . . <63 µV
Amplifier
Output Power . . . . 20W x 8
Output Impedance . . . . . .Compatible with 4-8 Ω ohms speakers, 4 ohm load minimum
DVD
Frequency Response . . . . . 20-20,000 Hz
Channel Separation . . . . . 50 dB
S/N Ratio . . . . . 65 dB
Distortion 0.5%
General
Power Supply Requirements . . . . . DC 12 Volts, Negative Ground
Operating Voltage . . . . . 11-16 VDC
Overall Dimensions . . . . 432mm (W) x 180mm (D) x 95mm (H)
. . . . . .17. 1” (W) x 7.09” (D) x3. 74” (H)
Mounting Dimensions . . . . . 278mm (W) x 160mm (D) x72. 5mm (H)
. . . . . 10. 9” (W) x 6.3” (D) x 2. 85” (H)
Weight. . . . . 2. 04 KG
. . . . . 4. 5 lbs

FCC Notes

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 dose 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.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

ELECTRONICS™
2602 Marina Drive • Elkhart, IN 46514
www.asaelectronics.com