

DESIGNED TO MOVE [YOU]® JWM70A

MOBILE AUDIO SYSTEM

Installation and Owner's Manual





Introduction
Disc Notes4
Installation5
Wiring
Basic Operation7
Tuner Operation
Disc Operation11
DVD/VCD Operation
MP3/USB Operation14
Bluetooth Operation16
App Operation17
Remote Control Operation
DVD Setup Menu
Care and Maintenance
Troubleshooting
Specifications
FCC Notice



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 JWM70A mobile audio system include:

- Digital AM/FM Tuner/30 Preset stations (12 AM/18 FM)
- Bluetooth Ready with A2DP/AVRCP Streaming Audio
- APP Ready
- Pre-set Equalizer -5 settings (User > Flat > Pop > Classical > Rock)
- Electronic Bass, Treble, Balance and Fader Controls
- DVD/CD-R/RW and MP3 Compatible
- HDMI Video Output with JCOM link
- HDMIARC
- 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
- Independent Zone Volume Control
- Wireless Remote Control Included

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/invisible laser 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 servicina to aualified personnel.

Packing List

JWM70A

SCREW COVER

Remote Control







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

Do not attempt to disassemble or adjust this precision product; contact a professional for assistance.







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.

NOTE: CD-R and CD-RW discs will not play unless the recording session is closed and the CD is finalized.

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.

E/		No. Strange	
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. JWM70A





INSTALLATION

It's a good idea to read all of the instructions before beginning the installation. We recommend having your Jensen JWM70A installed by a reputable RV dealership.

Tools and Supplies

You will need these tools and supplies to install your JWM70A:

- · Phillips screw driver
- 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 JWM70A is to be installed in a vehicle equipped with an onboard 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 the screw covers

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.





WIRING HARNESS

DETAILA SHOWN FROM PIN VIEW

PIN NO.	WIRE COLOR	DESCRIPTION
1	PINK/BLACK	RIGHT (C) SPEAKER (-)
2	PINK	RIGHT (C) SPEAKER (+)
3	DARKGREEN	LEFT (C) SPEAKER (+)
4	DARK 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	EMPTY	NO CONNECTION
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	POWERANTENNA
15	RED	ACC/ IGN (+) (18GA)
16	BLACK	GROUND (18GA)
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 (19) (18) (17) (16) (15) ര (14) revelue ñ3) <u>12</u> 40100 0 ñ 2 late. ъШ \$ PAIR 3 (5) (4)(6) $\overline{(7)}$ (8) (9) 10

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 (5) to enter the zone menu.
- 2. While in the zone menu, press **ZONES**, **ENTER** (4), or the |<< or >>| buttons (6, 8) to change the active zone (ZONE A, ZONE B and ZONE C) for volume adjustment control.

NOTE: Zone A also controls the output of the rear line level audio out.

 Rotate the VOL/ENTER knob (4) clockwise to increase or counter-clockwise to decrease the active zone's volume.

NOTE: Set the zone volume to '0' to turn off the zone.

Each zone has a maximum volume setting of '40'. While adjusting the volume, the LCD displays numerical representation of the level.

Zone Mute

While in zone menu (see above), press and hold the ENTER knob button to mute the audio output of the active zone's volume. Press and hold again to restore the previous volume level.

Pause / Mute

During RADIO / FRONT AUX / REAR AUX / HDMI ARC mode, press the || button (7) to mute the audio output for all 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.

Mode

- 1. Press the **MODE** button (15), the LCD will display "MODE" and access mode selection.
- Press the MODE button, |<< or >>| buttons (6, 8), or rotate the VOL/ENTER knob to cycle through the available modes and choose the desired mode. Available modes are AM, FM, FRONTAUX, REARAUX, HDMIARC, DISC and USB.
- 3. Press ENTER knob (4) to confirm the mode selection.

Audio Menu Setting

1.Press the SETTINGS button (14) to access the audio menu.

- 2.Press the |<< or >>| buttons (6, 8) or SETTINGS 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 (4) 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: Ádjust 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.
- EQUALIZATION: Choose one of the following pre-defined bass and treble curves: POP > CLASSICAL > ROCK > FLAT.

System Menu Setting

- 1. Press and hold the ${\ensuremath{\mathsf{SETTINGS}}}$ button (14) for 2 seconds to access the system menu.
- Press the |<< or >>| buttons (6, 8) or SETTINGS button repeatedly to navigate through the system menu items.
- 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.
- 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.
- BLUETOOTH (ON/OFF): Choose "Bluetooth On" or Bluetooth Off".
- PRESET VOL (1-40): Select an automatic turn on volume.
- RESET <ENTER>: Press the ENTER button to return the JWM70A to factory default settings.

Auxiliary Input Function

When a portable audio device is connected to the unit, press the **MODE** button (15) repeatedly until FRONT AUX / REAR AUX mode is selectable, then press **ENTER** (4) 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) (11) 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 (11) 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.



USB Interface Connector

You can connect a USB device directly to USB interface (10) on the front of the JWM70A for playback of compatible files. Press the **MODE** button repeatedly until USB mode is selectable. Refer to "MP3/USB Operation" on page 13 for additional operating instructions.

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 (19).

Dimming control

 Press the DIM button (17) 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 (17) to access DIMMER LEVEL menu.
- 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: LCD panels may take longer to respond when subjected to cold temperatures for an extended period of time. In addition, the visibility of the numbers on the LCD may decrease slightly. The LCD display will return to normal when the temperature increases to a moderate range.

Time Menu Settings

- 1. Press the **TIME** button (18) to access time menu settings.
- Press the |<< or >>| buttons (6, 8) or TIME button repeatedly to navigate the time menu.
- Once the desired time menu item appears on the display, adjust that option by rotating the VOL/ENTER knob clockwise or counter-clockwise within 5 seconds.

The following items can be adjusted:

- SLEEP TIMER: select the sleep time from 0 (OFF), 15, 30, 45 or 60 minutes. The sleep timer will automatically turn off the JWM70A in designated number of minutes.
- ALARM (ON/OFF): to turn the alarm function on or off.
- ALARM SET: The nour 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.
- CLOCK SET: 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 time.

Press the **BACK** button (2) to confirm your selection and exit time menu. The unit will automatically exit the audio menu after 5 seconds of inactivity.

Remote Sensor

Infrared receiver is located on the front panel to receive infrared signal emitted by the remote control.

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

HDMI ARC

Use a ball point pen or thin metal object to press the **RESET** button (3). Connect HDMI cable to JENSEN TV with ARC function and JWM70A 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.



JWM70A

DESIGNED TO MOVE [YOU][®]

See the ARC function Operation in the following table:

No	Device	Status	User Operation	Operation Results Remark		Remarks
	Head Unit	тv		Head Unit	тν	
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 HDMIARC 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 HDMIARC 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	DISC disc content	Switch TV to another(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	TV CEC Mode OFF	No Audio Out	Audio Out	TV Speaker ON
		ARC)	TV CEC Mode ON Audio Recevier ON	Audio Out	No Audio Out	TV Speaker ON





TUNER OPERATION



Select a Band

- 1. Press **MODE** button (15), the LCD will display "MODE" at top line of the screen and enter mode selection.
- Press MODE button (15) repeatedly or |<< or >>| buttons (6, 8) or rotating the VOL/ENTER knob to navigate the available modes and choose AM or FM mode.
- 3. Press ENTER knob button (4) to confirm the selection.

Manual Tuning

Press the>>|or|<< buttons (8, 6) to seek stations up/down step by step.

Auto Seek Tuning

Press and Hold the >> or |<< buttons (8, 6) to automatically seek the next or previous strong station.

Presets station menu

Store a station

- 1. Press the PRESETS button (13) to access the preset menu.
- 2. Press |<< or >>| buttons (6, 8) 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 (13) to access the preset menu.
- Press i<</pre> or >> buttons (6, 8) or rotate the VOL/ENTER knob to navigate the 6
 preset stations.
- 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 a band. Press and Hold the **AS/PS** button (12) 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** 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 (20) $\hfill (20)$ and the disc will begin to play automatically.

Ejecting a CD

Press the $\ensuremath{\textbf{EJECT}}$ button (16) to stop CD play and eject the CD.

Pausing Playback

Press the \blacktriangleright II button (7) to suspend or resume disc play.

Stop Playback

Press & hold the ►II button (7) to suspend disc play, and "PRE STOP" will appear in the display.

Press the II button to resume disc play from the

last position. Press & hold the ▶II button (7) again and "STOP" will appear on the display.

6)	(l)	
D		
3		
4) 5)		
2		
8)		
9		
0		
0		

Track Select

Press the >>| or |<< button (8, 6) 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 plays start when the play/pause button is pressed.

Fast Forward/Reverse

Press and hold the >>| or |<< button (8, 6) or press the >> or << buttons on the remote control (16) once for FAST FORWARD/REVERSE. Press and hold again for

FAST FORWARD/REVERSE X 4, X 8, X 20 or PLAY. Press the ▶II button (7) on the control panel or remote control (17) to end fast forward or reverse and resume normal playback.

Playback menu setting (Intro Scan/Repeat/Random)

- 1. Press the ENTER knob (4) to access the playback menu settings (Intro Scan/Repeat/Random).
- 2. Press the |<< or >>| buttons (6, 8) repeatedly to navigate the playback menu.
- 3. Once the desired playback 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 ENTER knob (4) to confirm selection.
- 5. Press the **BACK** button (2) to confirm your selection and exit time menu. The unit will automatically exit the playback menu after 5 seconds of inactivity.

The following playback menu items can be adjusted:

- INTRO SCAN: To play the first 10 seconds of each track on the current disc.
 Press ENTER knob to turn the intro scan function on or off.
- REPEAT: Rotating the volume knob to select REPEAT ONE to continuously repeat the selected track (RPT ONE), REPEAT ALL to repeat all tracks, REPEAT OFF to stop the repeat function.
- Press the **RPT** buttons on the remote control (20) to access repeat function.
- RANDOM SHUFFLE: To play all tracks on a CD in random, shuffle order. Rotating the VOL/ENTER knob clockwise or counter-clockwise to turn the random function on or off.

Programmed Playback

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

○ 1.C:	JE 001
103	
204.AAC 6	
306-TEST7MP3-12 407-#MA 8	
08.ASCII CODE	
PROGRAM	PLAY CLEAR



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

O0:02:18 -total elapsed playing time of current track;

- C -00:34:37-remaining playing time of current track:
- T 00:02:18 -total elapsed plaving 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 (15) and the disc will begin to play.

Ejecting a DVD

Press the EJECT button (16) to stop DVD play and eject the DVD.

Play/ Pausing Playback

Press the > II button (7) to suspend or resume disc play.

Stop Playback

Press & hold the ► II button (7) to suspend disc play, and "PRE STOP" will appear in the display. Press the ► II button to resume disc play from the last position. Press & hold the ► II button (7) again and "STOP" will appear on the display.

Track Select

Press the >>| or |<< button (8, 6) to advance to the previous or next track on the disc. 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. Disc plays start when the play/pause button is pressed.

Fast Forward/Reverse

Press and hold the >>| or |<< button (8, 6) 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 (7) on the control panel or remote control (17) to end fast forward or reverse and resume normal playback.

Playback menu setting (Disc Menu/Repeat)

- 1. Press the ENTER knob (4) to access the playback menu settings (DISC MENU/REPEAT).
- 2. Press the |<< or >>| buttons (6, 8) repeatedly to navigate the playback menu.
- Once the desired playback 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 ENTER knob (4) to confirm selection.
- 5. Press the **BACK** button (2) to confirm your selection and exit time menu. The unit will automatically exit the playback menu after 5 seconds of inactivity.

The following playback menu items can be adjusted:

- DISC MENU: Press ENTER knob to access disc menu option.
- REPEAT (VCD): Rotating the VOL/ENTER knob clockwise or counter-clockwise to select from the following repeat play options:
 VCD: REPEAT TRACK, REPEAT ALL (disc), REPEAT OFF
 DVD: REPEAT CHAPTER, REPEAT TITLE, REPEAT All, REPEAT OFF
 REPEAT CHAPTER to repeat disc chapter
 REPEAT TITLE to repeat disc chapter
 REPEAT TRACK to continuously repeat the selected track
 REPEAT OFF to stop the repeat function.
 Press the RPT buttons (20) on the remote control to access repeat function.



Programmed Playback

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

2 01.0: 02 1035 204_AAC 6 306-TEST/MP3-T2 407-MHA 8 05.ACC CODE		615EZB
PROGRAM	PLAY	CLEAR

- 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 17 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 playback, press the D button (26) on the remote control to display playback information on the screen, including the media playing and current playback time. Press the D button(26) additional times 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.
- 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.

JWM70A



MP3/USB OPERATION



If the user connects a USB mass storage device, the radio automatically power on, if necessary, and switches to digital file playback mode and selects that physical media. Changing modes or turning off the radio pauses playback. Playback will resume exactly where paused when returning to digital file playback mode.

Inserting a USB Device

The **USB** connector (10) is at the bottom right corner of the panel. Press the **Mode** button (15) repeatedly and choose the USB mode to enter USB playback 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.

NOTE: MP4 video format is not supported.

Notes on MP3 Playback

Any directory that does not include a MP3 file is skipped.

Maximum number of folders: 512 (including skipped directories). Maximum number of folder levels: 12

ര 1 (mar) (14) 3 66 4 ര് (2) (VOL (**•**) (•)) $\widehat{(7)}$ 21 23 24) 10 28 (ff) 6 **LIENSEN**

Maximum number of MP3 files: 999 Maximum number of characters for MP3 file 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.

Photos

If the media type is not present, the icon will not be selectable.



:Video

Play/Pause

Press the || button (7) to suspend or resume media playback.

Track Select

Press the |<< or >> | buttons (6, 8) or |<< or >> |button (14) 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.

Playback menu setting (Intro Scan/Repeat/Random/Folder)

- 1. Press the ENTER knob (4) to access the playback menu settings (Intro Scan/Repeat/Random/Folder).
- 2.Press the |<< or >>| buttons (6, 8) repeatedly to navigate the playback menu.
- Once the desired playback 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 ENTER knob (4) to confirm selection.

5. Press the BACK button (2) to confirm your selection and exit time menu. The unit will automatically exit the playback menu after 5 seconds of inactivity.

The following playback menu items can be adjusted:

- INTRO SCAN: To play the first 10 seconds of each track on the current disc. . Press ENTER knob to turn the intro scan function on or off.
- REPEAT: Rotating the VOL/ENTER knob to select from the following repeat play options: REPEAT TRACK to continuously repeat the selected track (RPT 1)
- REPEAT DIR (folder) to repeat all tracks in a folder. .
- REPEATALL (disc) to repeat all tracks.
- REPEAT OFF to stop the repeat function. .
- Press the **RPT** buttons (20) on the remote control to access repeat function.
- RANDOM SHUFFLE: To play all tracks on a CD in random, shuffle order. . Rotating the VOL/ENTER knob clockwise or counter-clockwise to turn the random function on or off.
- FOLDER: Rotating the VOL/ENTER knob clockwise or counter-clockwise to access a higher or lower folder level.

Programmed Playback

- 1. Press the **PROG** button (7) on the remote control to access the programmed playback screen.
- 2. Use the < > or A V 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 file directly, use the number pad on the remote control (9). For single digit entries, press the corresponding number. For two digit entries, press the 10+ button followed by the last digit (i.e., for file 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 file number highlighted.
- 2. Use the number keys on the remote control to enter the 3-digit track number directly (i.e. for file 10, enter "010").
- 3. Press the ENTER button to confirm and begin playback.

MP3 Playback Information

The following information is displayed at the top of the screen during CD playback: TRK ##/## - "9/150" indicates the ninth of 150 tracks on the disc is currently playing. CX – "X" indicates repeat play is OFF, "1" indicates repeat song. and "D" indicates repeat directory (folder).

Press
repeatedly to view the following information for elapsed/remaining playing time:

O0:02:18 – total elapsed playing time for disc C –00 :34 :37 – remaining playing time

- T 00:02:18 total elapsed plaving time for current track
- C-00:34:37 remaining playing time for current track



BLUETOOTH OPERATION

The JWM70A 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 JWM70A. Press and hold the SETTINGS button (14) to enter menu adjustment mode. Repeatedly press the >>1 or I << buttons (8, 6) or SETTINGS button to access BLUETOOTH ON/OFF. Rotate the VOL/ENTER knob to select ON or OFE

Bluetooth Menu Options

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

Press and Hold the SETTINGS button (14) to enter menu adjustment mode. The following additional menu options are available when the unit is in Bluetooth mode



- BLUETOOTH PAIR: Press the ENTER knob to make the JWM70A 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 >>lorl<< 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 >>lor I<< 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 JWM70A for connection.
- LOCKED/UNLOCKED: The JWM70A 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 JWM70A

Make sure the device you intend to pair with is on and ready to pair.

- 1. Press \$ PAIR button (9) to enter Bluetooth mode.
- 2. Press & Hold *** PAIR** button to start Bluetooth pairing process.
- The JWM70A will display "PAIRING" and will be available to pair for 120 seconds. 3. In your device Bluetooth settings, select"JWM70A" to connect.

Answering a Call

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

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 ***PAIR** button (9) to enter the Bluetooth mode.

Selecting Tracks

During playback, press the >> | or | << button (8, 6) to play the previous or next track.



Pausing Playback

During playback, press the ► II button (7) 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 *** PAIR** button (9) 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 remote 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 –analog AUX1 and AUX2.
- Zone volume selection A, B and/or C
- Audio menu controls-bass, treble, balance, fader, equalizer, volume and zone selection settings
- HDMIARC
- Clock with sleep time and alarm on/off.
- Visual display feedback so you can see artist title and album on your mobile screen

Connecting and using jControl app

jControl is available on the App Store for Apple devices and the Google Play Store for Android devices. Search "jControl" to find and install the app on your smart device. After downloading and installing jControl app on your apple device, pair your device to the JWM70A as stated above for Bluetooth paring.

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 (a) (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.

JWM70A



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. .

JWM70A





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 inals follow the curvature of the earth and are reflected back by the upper atmosphere.

TROUBLESHOOTING

Symptom	Solution		
Radio will not turn	Try the reset button.		
ON or No front	Check fuse.		
panel operation	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. 		
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	Check to make sure disc is inserted correctly.		
play 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	Verify you are tuned to a valid station.		
reception	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	Verify that you have a clear line of sight for the IR signal.		
respond to Remote Control	Check the batteries.		



SPECIFICATIONS

FM Tuner

Frequency Coverage (USA)
Frequency Coverage (Europe)
Sensitivity
Stereo Separation@1 kHz>25 dB
AM Tuner
Frequency Range (USA)
Frequency Range (Europe)
Sensitivity (S/N=20dB)
Amplifier
Output Power
Output Impedance Compatible with 4-8 Q ohms speakers, 4 ohm load minimum
DVD
Frequency Response
Channel Separation
S/N Ratio
Distortion
General
Power Supply Requirements DC 12 Volts, Negative Ground
Operating Voltage
Overall Dimensions
Mounting Dimensions
Weight

FCC Notice

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.

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.



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