

Installation and Operation Manual

Ĥ		MODE PAIR BAND SCROLL GENSEN (PS-AS) HEAVY DUTY (INFO)	
	+	Bluetooth µox₽	K
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INTRODUCTION

System Features

Features of Jensen JHD922BT mobile audio system include:

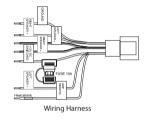
- 14 Characters Alpha-Numeric Segmented LCD •
- AM/FM (US/Europe /Japan/Russia) Tuner with 30 Presets • (12AM, 18FM)
- Weatherband Tune •
- Mute •
- Bluetooth Streaming Audio (Supports A2DP and AVRCP)
- Loudness .
- Electronic Bass, Treble, Balance, Fader Controls .
- Maximum Output Power RMS 40W x 4 ٠
- Clock 12/24 Hour Selectable .
- Work Clock Timer .
- Low Battery Voltage Alert ٠
- Illumination Dimming .
- **USB** Charging ٠
- 2-Channel Pre-amp Line Level Outputs ٠
- 2-Wire Power with Non-Volatile Memory and Clock/Time ٠ support

Content List

- Jensen Heavy Duty Radio
- Hardware Kit
- Mounting Bracket ٠
- **Ouick Reference Guide** .

HARDWARE KIT CONTENTS





Commander



Mounting Bracket



M4 Machine	
Screws (4)	
Self-Tapping	

Washers (4)



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SAFETY INFORMATION

When Driving

Keep the volume level low enough to be aware of the road and traffic conditions.

When Washing Your Vehicle

Do not expose the product to water of excessive moisture. Moisture can cause electrical shorts, fire or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

Use the Proper Power Supply

This product is designed to operate with a 12 volt DC negative ground battery system.

WARNING:

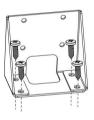
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

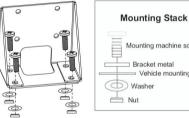


INSTALLATION **Mounting the Bracket**

Two options are provided for mounting the bracket (selftapping screws or machine screws with nuts) to ensure a mounting option ideal for your mounting location. Avoid obstructing airflow to the rear cooling fins on the radio.

Notes: Mounting holes should be drilled to 7/32". Before drilling the mounting holes, make sure the area behind the panel where the holes are desired is clear of wires and fuels, vacuum and or brake lines.





Mounting machine screw Bracket metal Vehicle mounting surface

Washer

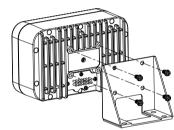
Self-Tapping Screws (Hole size 7/32")

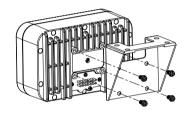
Machine Screws with Nuts (Hole size 7/32'')



Once the bracket is securely mounted, use the four included M4 machine screws to fasten the bracket to the back of the radio. Alternatively, the radio can be mounted directly to the instrument panel if access to the rear of the instrument panel.

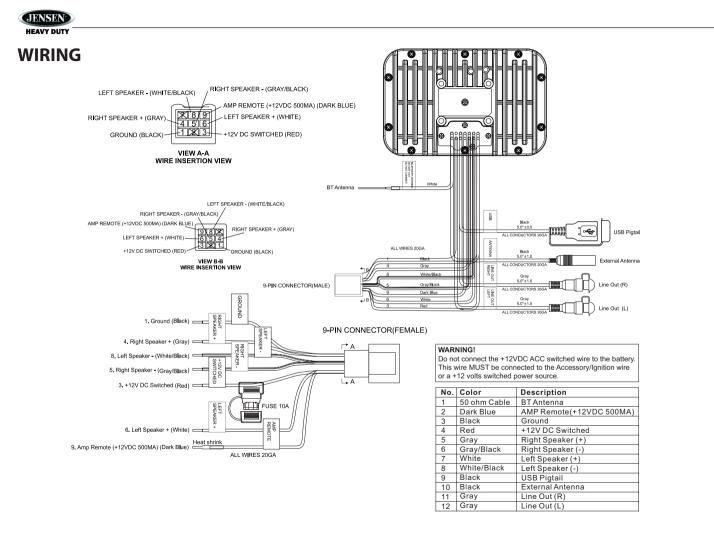
CAUTION! Do not over tighten the 4 mounting screws. Hand tighten only.





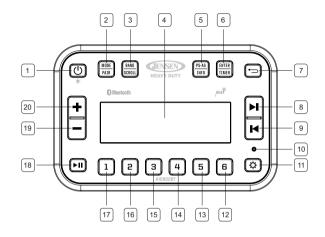
Regular Mounting

Overhead Mounting





BASIC OPERATION



Power On/Off

Press the **POWER** button (1) to turn the unit on. The unit will resume at the last mode (Tuner, BT, etc.) after turn on. Press and hold the **POWER** button (1) to enter standby mode.

Volume Control

To increase the volume, press the + button (20). To decrease the volume, press the - button(19).

Play/Pause/Mute

Press the ►II button (18) on the control panel to pause or mute the audio output. Press ►II button again to unmute or restore the audio output to the previous level.

Mode

Press the **MODE** button (2) to select a different mode of operation, as indicated on the display panel. Available modes include the following: FM > AM > Weather Band > BT Audio. FM is the default source mode on initial power up.

NOTE: DAB+ Digital Radio mode will be skipped when the Region menu option is set to "USA/ Russia / Japan".

NOTE: Weatherband mode will be skipped when the Region menu option is set to "Europe/Russia / Japan".

Reset

The **RESET** button (10) 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 thin metal object to press the reset button. This may be necessary should the unit display an error code.

Audio Menu

Press the SETUP button (11) to access the audio menu. You can navigate through the audio menu items by pressing the SETUP button repeatedly or i or i buttons (9, 8). Once the desired menu item appears on the display, adjust that option by pressing the + or – buttons (20, 19) within 5 seconds. The unit will automatically exit the audio menu after five seconds



of inactivity. The following menu items can be adjusted. *Loudness:*

Press the + or – buttons (20, 19) to 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.

Bass Level

Press the + or - buttons to adjust the Bass level range from "-7" to "+7".

Treble Level

Press the + or - buttons to adjust the Treble level range from "-7" to "+7".

Balance

Press the + or - buttons to adjust the Balance between the left and right speakers from "Left 7" to "Right 7".

System Menu

- 1. Press and hold the **SETUP** button (11) for more than 2 seconds to enter the system menu.
- Press the SETUP button (11) repeatedly or ⊨ or ⊨ buttons (9, 8) to navigate the system menu.
- Press the + or buttons (20, 19) to adjust the selected menu item. Press the ENTER/TIMER button (6) to select the desired item.

The unit will automatically exit the system menu after 5 seconds of inactivity.

The following items can be adjusted:

- LCD Dimmer (1-10): Adjust LCD backlight
- Bluetooth Devices: Press to ENTER/TIMER button (6) to enter sub-menu. Press I or I buttons (9, 8) to navigate list. List loops. Press ENTER/TIMER button to select device. Press I or I to navigate selected device's menu of available options (Lock/Unlock > Connect/ Disconnect > Delete and List loops). Press ENTER/TIMER button to select options.
 - Lock/Unlock: Press ENTER/TIMER button to lock or unlock device. Lock icon displays next to device name in menu when device is locked.
 - Connect/Disconnect: Press ENTER/TIMER button to connect or disconnect previous paried device.
 - Delete: Option only available if selected device is unlocked. Press ENTER/TIMER button to delete.
- Clock Set: Setting the clock (HH:MM) and hour format.
- Low Voltage Alarm (On/Off): Monitor voltage on ACC line and send alert when voltage is low.
- Low Voltage Auto Off (On/Off): Automatically turn off power to radio when battery voltage is low.
- Preset-Only Tuning (On/Off): If 'Preset-Only Tune' is set to 'On' in System Settings, only presets from all bands are recalled in sequence.
- Tuning Region (USA/EURO/RUSSIA/JAPAN): Set frequency spacing for various regions.

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JENSEN HEAVY DUTY

- USA Tuning Region (AM > FM > WX > Bluetooth).
- Europe, Japan & Russia Tuning Region (AM > FM > Bluetooth).
- Key Beep (On/Off): Turn the audible beep On/Off (heard when functions/ buttons are selected). Beep tone off will not affect Battery Alarm audible tone.
- System Info: Display firmware version.

NOTE: Bluetooth Device menu options are only available while the Bluetooth feature is ON and the radio is in Bluetooth Audio mode.

NOTE: A locked Bluetooth device will not be overwritten from the list.

Low Voltage Alarm Operation

If Low Voltage Alarm is set to "On", an alarm will sound (8 beeps every 30 sec) when the voltage drops to 10.5V (+/- 0.3V). A visual warning (LOW VOLTAGE) will appear, Press any button to dismiss visual warning, (reappear every 10-minutes) in the LCD display.

NOTE: "Off" is the default setting for Low Voltage Alarm. If the audio is muted or the volume is set to 0, the audible beep will not be heard.

Liquid Crystal Display (LCD)

The liquid crystal display (LCD) panel (4) displays the frequency, time and activated functions.

Press the **POWER** button (1) to turn the dimmer On (selected brightness level) and press again to turn dimmer Off (maximum brightness level).

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 characters on the LCD may decrease slightly. The LCD display will return to normal when the temperature increases to a normal range.

Setting the Clock

To set the clock to display the current time, turn the vehicle ignition on and turn the radio on. Enter the system menu and adjust the clock by selecting the "Set Clock" menu item.

- Press ENTER/TIMER button (6) to enter clock setting menu.
- Press I or ▶ to select hours, minutes, or 12/24 hour format.
- Press + or to adjust the setting field.

When no adjustment is made, the time will become set and normal operation will resume.

Setting Work Timer

To activate the work timer clock and running in the background,

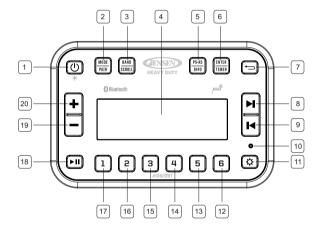
- Press ENTER/TIMER button (6) to display work timer.
- Press ENTER/TIMER button again to start/stop work timer.



• Press & hold ENTER/TIMER button to reset work timer.

• Press **RETURN** button (7) to exit work timer display. If timer is exited while running, "TIMER" flashed every 10 seconds for 2 seconds in place of clock in footer right on the display.

TUNER OPERATION



Select a Band

Press the **BAND/SCROLL** button (3) to change between FM1, FM2, FM3, AM1 and AM2.

Manual Tuning

Press & hold the ◄ or ► buttons (9, 8) to seek stations up/ down step by step.

Auto Seek Tuning

Press the \bowtie or \bowtie buttons (9, 8) to automatically seek the next or previous strong station.

NOTE: Seek tuning is not available for weather band channels. Use the up or down tuning buttons to manually select any of the seven available weather band channels.

Preset Stations

Six numbered preset buttons store and recall stations.

Store a Station

Select a station, then press and hold a preset button from 1 – 6 on the number buttons (12-17) for two seconds. The preset number will appear on the LCD.

Recall a Station

Press a preset button from **1 – 6** on the number buttons to select the corresponding stored station.

NOTE: Preset buttons are pre-assigned frequencies in weather band mode.

Automatically Store / Preset Scan (AS/PS)

Automatically Store

Select an **AM** or **FM** band. Press and hold the **AS-PS** button (5) for 2 seconds to automatically select 6 strong stations. "Storing Presets" appears on the screen and the new stations replace any stations already stored.



Preset Scan

Select a band. Press **AS-PS** (5) 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.

Weather Band Operation

What is the NOAA Weather Radio/Weatheradio Canada?

NOAA (National Oceanic and Atmospheric Administration) is a nationwide system that broadcasts local weather emergency information 24 hours a day via the National Weather Service (NWS) network. The U.S. network has more than 530 stations covering the 50 states as well as the adjacent coastal waters, Puerto Rico, the U.S. Virgin Islands and the U.S. Pacific Territories. Each local area has its own transmitting station and there are a total of seven broadcasting frequencies used. A similar system is available in Canada under the Weatheradio Canada service administered by Environment Canada.

Tuning to Weatherband

Press and hold the **MODE** button (2) repeatedly to reach the Weatherband. The indication "WB" will appear on the display panel, along with the current number and channel indication: "WB-1", WB-2", "WB-3", "WB-4", "WB-5", "WB-6" or "WB-7". The seven frequencies are shown in the following table:

WB Frequencies				
Frequency (MHz)	Preset			
162.400	2			
162.425	4			
162.450	5			
162.475	3			
162.500	б			
162.525	-			
162.550	1			

The above table also shows which preset button will access the frequency. Note that one frequency cannot be accessed using a preset button. The frequency can only be reached using the tuning controls.

Use the I or I buttons (9, 8) or the preset buttons to tune to each of the seven channels until you find the weatherband station broadcasting in your area.

How many stations can I expect to receive?

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Since the broadcasts are local weather and information, the transmission power is usually very low (much less than standard AM or FM stations) so you will usually receive only one station unless you are on the edge of two or more broadcast signals. The most you will receive will be two or three, and that is rare. *Is it possible I won't receive any stations?*

Depending on where you are located, there is a possibility you will receive only a very weak signal or none at all. Also, similar to AM and FM signals, weatherband signals are subject to surrounding conditions, weather, obstructions of the signal by hills or mountains, etc.

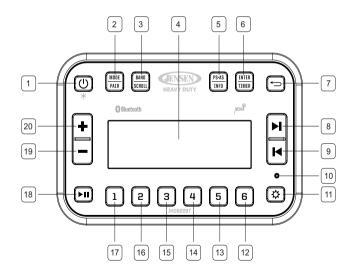


BLUETOOTH OPERATION

The JHD922BT includes built-in Bluetooth technology that allows you to connect this head unit to Bluetooth devices for streaming audio playback.

About Bluetooth Technology

Bluetooth is a short-range wireless radio connectivity technology developed as a cable replacement for various electronic devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 2.1 Mbit/s over a range of up to 10 meters.



Bluetooth Menu Options

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

Press and hold the **SETUP** button (11) for more than 2 seconds to enter the system menu. Press the **SETUP** button repeatedly or r or r buttons (9, 8) to view the Bluetooth Setup Menu options. Press **ENTER/TIMER** button (6) to enter BT Device List menu options.

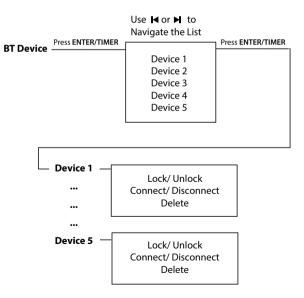
BT Device List

- Press the ENTER/TIMER buttons to view a list of previously paired mobile phone device models. Press the ◄ or ► buttons to navigate devices from the list. You cannot delete a device that is actively connected. Press the ENTER/TIMER button to select the device. Press the ◄ or ► buttons to choose Lock/Unlock, Disconnect or Delete for this device.
- LOCK/UNLOCK: The JHD922BT can store up to 5 devices for Bluetooth 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/TIMER button to display/change the Locked or Unlocked icon.



- DISCONNECT: To disconnect a paired device, press the ENTER/TIMER button to temporarily remove the Bluetooth link. The link can be re-established through your phone menu by selecting the JHD922BT for connection.
- DELETE: To delete a device from the list, press the ENTER/ TIMER button.

NOTE: Device must be disconnected to be deleted.



Pairing a Bluetooth Device

Before you begin, consult the owner's manual for the Bluetooth device you want to pair with the JHD922BT. *Bluetooth Quick Pair:*

- 1. On your personal Bluetooth device, enter the Bluetooth settings list. Make sure your device has Bluetooth turned on and is searching for new devices.
- 2. Press and hold the **MODE/PAIR** button (2) for three seconds to make the JHD922BT available on your Bluetooth device.
- On your Bluetooth device, select JHD922BT once it becomes available to pair and connect your device. Enter the pairing password (0000), if requested.
 After connecting successfully, you will be able to listen to music stored on your Bluetooth enabled device through the radio.

BT Audio (A2DP)

The A2DP music is available for Bluetooth enabled phones when the phone is connected. To access Bluetooth mode and play songs stored on your phone, press the **MODE/PAIR** button. While in Bluetooth mode, the Bluetooth Audio icon will appear on the LCD.

Selecting Tracks

During playback, press the
i or
i buttons (9, 8) buttons to play the previous or next track.



Pausing Playback

During playback, press the **>II** button (18) to pause the Bluetooth AUDIO player. "Pause" will appear on the LCD. Press **>II** again to resume playback. If you change to another mode, the mobile phone audio will pause. Press the **MODE/PAIR** button (2) 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 Bluetooth device when the power is restored.

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 vehicles 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 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 be received at great distance. This is because broadcasting signals follow the curvature of the earth and are reflected back by the upper atmosphere.



TROUBLESHOOTING

Symptom	Cause	Solution
No power	The vehicle's accessory switch is not on	If the power supply is properly connected to the vehicle's accessory terminal, switch the ignition key to "ACC".
	Fuse is blown	Replace the fuse.
No sound	Volume too slow	Adjust volume to audible level.
	Wiring is not properly connected	Check wiring connections.
The operation keys do not work	Control panel is not properly installed	Reinstall control panel.
	Built-in microcomputer is not operating properly due to noise	Press the RESET button.
Cannot tune to radio tation, auto-seek does	Antenna cable is not connected	Insert the antenna cable firmly.
not work	Signals are too weak.	Select a station manually.
ERROR-01 on LCD	Database or decoder error	Change to another mode.



SPECIFICATIONS

FM Radio	
Frequency Coverage (USA) Frequency Coverage (Europe/ Russia/ Japan) Sensitivity (S/N = 30dB) Stereo Separation	
Frequency Coverage (Europe/ Russia/ Japan)	
Sensitivity (S/N = 30dB)	2.2µV
Stereo Separation	>25 dB
AM/MW	
Frequency Range (USAI) Frequency Range (Europe/ Russia/ Japan) Sensitivity (S/N=20dB)	530-1710 kHz
Frequency Range (Europe/ Russia/ Japan)	522-1629 kHz
Sensitivity (S/N=20dB)	
General	
Frequency band(s) (for Bluetooth) Maximum radio-frequency power transmitted (for Bluetooth) Operating Voltage Grounding System Ground Speaker Impedance	2.4~2.4835GHz
Maximum radio-frequency power transmitted (for Bluetooth)	
Operating Voltage	DC 12 Volts
Grounding System	Negative
Ground Speaker Impedance	4-8 ohms per channel
Tone Controls:	
Bass (at 100 Hz)	±10 dB
Treble (at 10 kHz)	±10 dB
Maximum Power Output	
Idle/Standby Current	
Bass (at 100 Hz) Treble (at 10 kHz) Maximum Power Output Idle/Standby Current Fuse Rating	
Max Dimensions	

This devines with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful inte

FCC NOTES

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This equipment complies 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



ASA Electronics Corporation

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