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INSTRUCTION MANUAL



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EXD 7090

Motorized 7" Touch Screen In-Dash Multimedia Disc Player

CONTENTS

Thank you for your choosing our product. We hope you will find the instructions in this user 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 EXD7090 for maximum enjoyment.

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NOTE: 1. The cosmetic indicated in the book may differ from actual unit.
2. Display pictures indicated in the book may differ from actual display too.
3. The unit is subjected to continue improving for the purpose. We will not inform the change.

General information

Features

Thank you purchasing this EXONIC Multimedia Disc Player. Please read this information carefully and follow all the instructions outlined below. This will ensure reliable operation and durability of your unit. Keep the packaging and operating instructions in a safe place in order to pass them on to a subsequent owner in the event of selling the unit at a later date.

Motorized 7" Touch Screen In-dash Multimedia Disc Player

Innovative in-dash monitor design allows the unit to be mounted in a single DIN slot. At the touch of a button, a 7-inch wide-aspect-radio screen slides out, for comfortable DVD viewing.

- High brightness and wide viewing angle monitor.
- Touch panel user interface.

DVD, CD, VCD playback compatibility

Compatible with various disc formats, such as DVD-R/-RW, DVD+R/+RW, etc.

iPod

Control and command of most iPods via touch screen displays all information play lists.

Bluetooth

Hands-free phoning with cellular phones featuring Bluetooth technology

Answer and place calls via touch screen

One-touch dialing from phone book

On-screen caller ID

AM/FM Tuner

Auto/Manual search for radio station and preset station memory.

30 preset radio stations (12AM+18FM)

Distance/Local radio station seeking

Radio station scan playing.

Integrated SD card reader

4.1 Audio outputs, 1 Audio/video input, 1 Rear camera input, 1 Multi-zone A/V output and 1Composite video output provided.

Precautions

To avoid the risk of injury or accident, read the following precautions before installing and operating the unit.

On safety

Comply with your local traffic rules and regulations.

While driving

You must not watch or operate the monitor. It may lead to distraction and cause an accident. Park your car in a safe place to watch the monitor and operate the unit.

While operating

Do not insert your hands, fingers or foreign object into the unit while the monitor is functioning. It may cause injury or damage to the unit.

Keep small articles out of the reach of children. If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.

Preventing accidents

The video pictures appear only after you park the car and set the parking brake.

When the car starts moving, the video pictures automatically disappear for safety reasons, after displaying the following caution.

Do not watch the monitor while driving. You may cause a traffic accident if your attention is distracted by the monitor.

CAUTION

IT'S UNLAWFUL TO OPERATE A VEHICLE WHILE VIDEO IS DISPLAYED IN THE DRIVERS VIEWING AREA.

ENGAGE EMERGENCY BRAKE TO ENJOY VIDEO

Do not use the System Setup feature while driving, or perform any other function which could divert your attention from the road.

When you connect the back camera:

When you drive, watch the surroundings carefully for your safety. Do not depend on the back camera exclusively.

When backing up you car, be sure to look back for your safety.

Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

On installation

Due to its technical nature, it is highly recommended that your EXONIC EXD 7090 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

If you try to install this unit by yourself, refer to the supplied "Installation/Connections" manual and read it carefully. Make sure to install this unit properly.

Improper installation may cause a short circuit.

If the unit does not work properly, check the connections first (refer to the supplied "Installation/Connections" manual) . If everything in order, check the fuse.

Replacing the fuse

When replacing the fuse, be sure to use only a fuse of the same rating (ampere rating).

Using a different fuse or bridging the contacts with wire is highly dangerous and can lead to serious damage.

To prevent short circuits when replacing a fuse, disconnect the wiring harness first.

Protect unit surface from damage

Do not expose the unit surface to chemicals such as insecticide, hair spray, insect repellent, etc.

Do not leave rubber or plastic materials in contact with the unit for along time. Otherwise the finish of the unit may be impaired, or deformation may occur.

When installing, be sure to turn the ignition key to the off position. Installing the unit while the ignition is on may cause battery drain or short circuit.

When installing, be sure not to damage any car parts such as pipes, tubes, fuel tank or wiring by using a drill. It can cause a fire or an accident.

Do not attempt to open or repair the device yourself. This work should be performed by an authorized service agent.

Installing location

Do not install this unit where:

The driver's view will be obstructed when the monitor is in either open or close position.

The operation of the car or the airbag system will be obstructed.

It will obstruct the operation of the vehicle, especially the steering wheel, shift lever or brake pedal.

Notes:

If you experience problems during installation, contact your nearest EXONIC dealer.

If the unit malfunctions, reset the unit as described on page 11 first. If the problem still persists, contact your nearest EXONIC dealer.

Moisture condensation

When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.

To maintain high sound quality

Be careful not to splash juice or other soft drinks onto the unit or discs.

Playable discs

The following types of discs/files are compatible:

- CD-ROM (ISO), CD-R, CD-RW, DVD+R/RW, DVD-R/RW
- CD-DA, DVD Video
- MP3 data
- JPG images

The following types of discs/files are not compatible:

- WMA files that are protected by DRM (Digital Rights Management)
- WMA lossless format
- Discs recorded with Track At Once or packet writing
- MP3 PRO format
- MP3 playlists
- WAV format
- WMV format
- AVI format

Some recordable DVDs and CDs may be incompatible with this unit, depending on media type and recording method.

DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the EXD 7090 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The EXD 7090 will play discs labeled "Region 1" or "All".

DVD region codes:

- 1 - USA, Canada
- 2 - Japan, Europe, South Africa, Middle East
- 3 - Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
- 4 - Australia, New Zealand, Mexico, South America
- 5 - Eastern Europe, Russia, India, Africa
- 6 - China

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iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

All other trademarks are property of their respective owners.

Installation instructions**IMPORTANT INFORMATION**

- Unit is designed for negative ground 12V DC systems only. The unit cannot be used in trucks or other cars with 24V systems. Otherwise, there is a risk of fire and damage.
- Do not disassemble or remodel the unit. This can cause electric shock, personal injury or fire. Do not connect any other system's power supply cord directly. If you are in any doubt about the safe installation of this unit, please consult your nearest EXONIC dealer.
- Do not install in locations which interfere with airbag operation. Otherwise there is a risk of accidents and injury.
- Use only the specified fuse. When replacing the fuse, be sure to use only a fuse of the same rating (ampere rating). Otherwise there is a risk of fire.
- Do not ger the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power input leads only after all other leads have been connected.
- Run all ground wires to a common ground point.
- Be sure to insulate any loose unconnected wires with electrical tape for safety.

Parts supplied

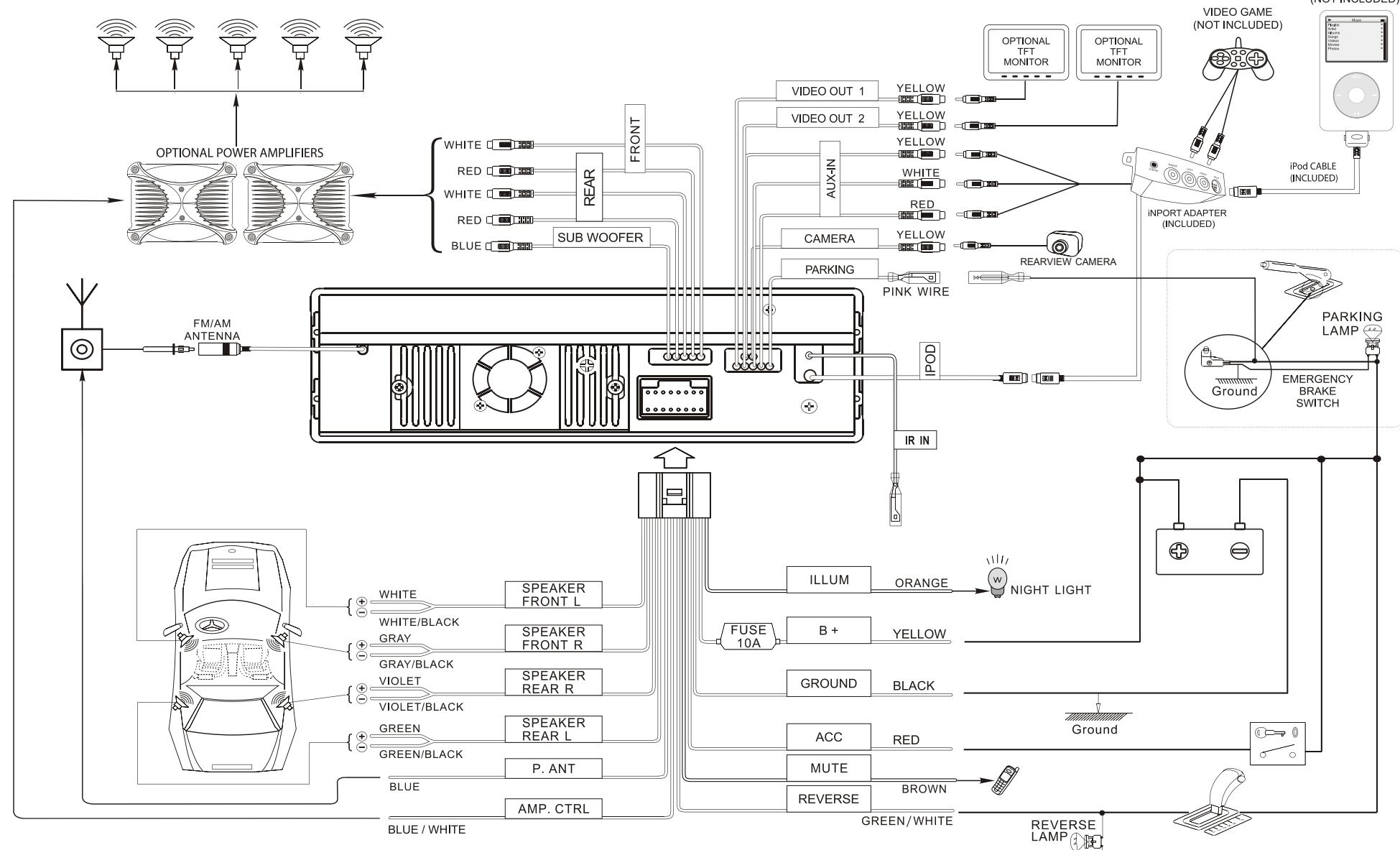
The pack you have bought contains:

- EXONIC EXD 7090 Multimedia Disc Player
- Power cord
- RCA connector
- Operation manual
- Remote
- IPod connector
- Import Adaptor

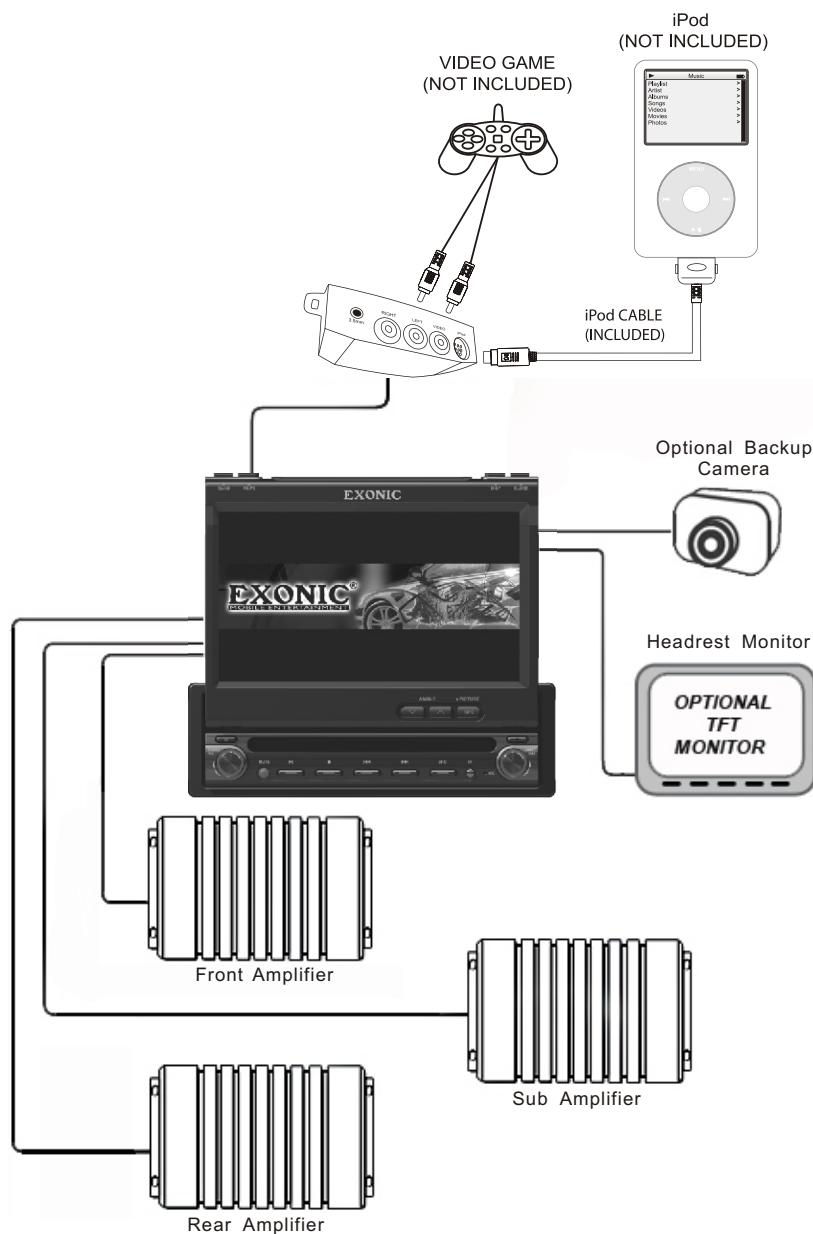
Making the electrical connections

- Install all cables with care. For wiring, refer to the connection diagram.
- To prevent the risk of accidents caused of short-circuits, connect the power supply leads, only after all other wiring has been completed, and only with the ignition key in the OFF position. Otherwise, accidental short-circuiting can lead to electric shock and to serious damage.
- Subwoofer output
The SUBWOOFER audio output (Blue RCA) is active in all audio modes and must be connected to an external amplifier.
- Rear view camera
A rear view camera (not included) can be connected to the CAMERA input.
- NEED HELP??
Contact nearest EXONIC dealer.

Expanded Wiring Diagram -Inputs/Outputs



Wiring Diagram - Optional A/V Connections

**Note:**

The remote control uses one 3 volt Lithium CR2025 battery. For best performance, replace only with CR2025 or equivalent.

Installing the main unit

After all connections are made, install the main unit to the dashboard.

Before installation

This unit is designed to be completely safe, but if not installed correctly, it can cause accidents. Be sure to verify the following points before installation.

Install the unit so that the monitor when opened up will not block access to the hazard switch or other important controls.

Do not install the unit (monitor) in locations which maybe subject to excessively low or high temperatures. (Otherwise the unit may be deformed and the LCD may be damaged.)

Exposure to direct sunlight can also lead to high temperatures and should be avoided.

Selecting the installation location

1. Set the ignition key to OFF or remove it.

2. Place the units in their intended mounting locations to check the cable length and monitor installation conditions.

Installation procedure precautions

Perform the installation carefully. Dropping the unit or otherwise subjecting it to strong impact or force may deform the chassis, resulting in failure of the monitor loading mechanism or other defects.

To allow for proper opening and closing of the monitor, there must be a clearance of at least 170 mm between the closest position of the shift lever and the mounting surface for the unit.

In some cases, the shift lever may touch the monitor when moved to a certain position. Make sure that there is no obstruction to driving operations.

The unit should be installed within an angle of 30 degrees from horizontal. If this angle is exceeded, the monitor may not open up or retract properly.

Installation procedure

When installing this unit, be sure to close the monitor of the unit.

If the monitor is opened while installing and given too much force, it may cause a malfunction.

Remove the four #1 phillips head screws from each corner, and slide the unit out of the mounting sleeve.

Install mounting sleeve into opening, bending tabs to secure.

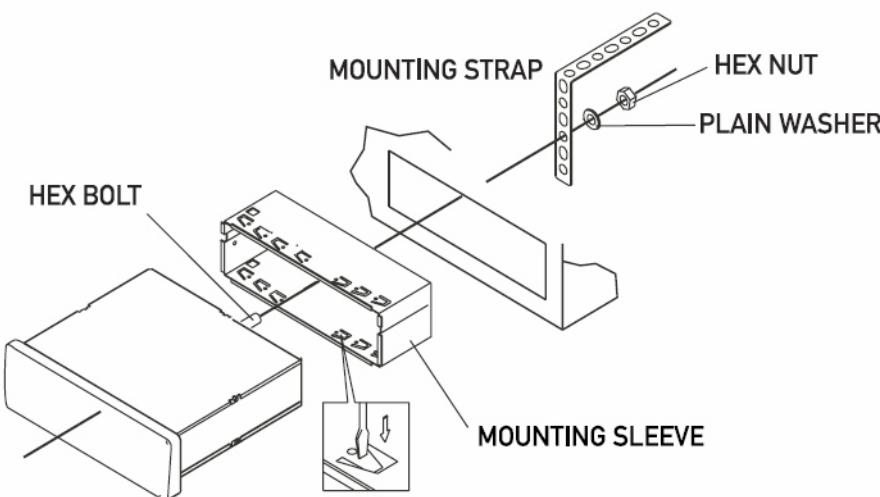
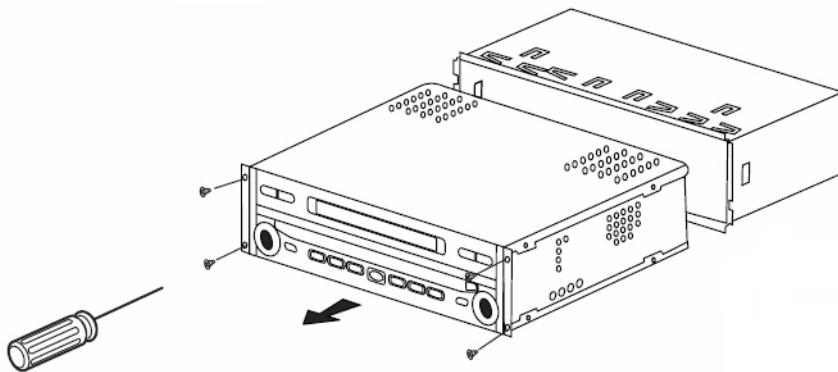
Connect wiring harness and antenna as shown on pages 9-10. Consult a qualified technician if you are unsure.

Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).

Test for correct operation and slide unit into mounting sleeve, secure with #1 phillips screws as removed in step 1.

Snap trim ring into place.

TYPICAL FRONT-LOAD DIN MOUNTING METHOD



After installation and connections

1. Start the car's engine.
2. Verify that the brake lights, other lights, horn, turn indicators, and all other electrical parts operate normally.
3. Use a mechanical-pencil or similar to push the Reset button on the unit.

Operation instructions

Detaching the front panel

You can detach the front panel of this unit.

1. Press **POWER**

The unit is turned off.

2. Press **RELEASE**



Notes: Do not drop the front panel or put excessive pressure on them.

Do not subject the front panel to heat/high temperature or moisture. Avoid leaving it in a parked car or on a dashboard/rear tray.

Resetting the unit

Before operating the unit for the first time, or after replacing the car battery or changing the connections, you must reset the unit.

Detach the front panel by pressing **RELEASE** and pull it off towards you.

Use a pointed object such as a mechanical pencil to push the Reset button. To avoid the possibility of damage, you should not use a needle or push the button too strongly.

Push Reset



Notes: When the Reset button is pushed, the time and all stored settings are lost and will have to be reprogrammed.

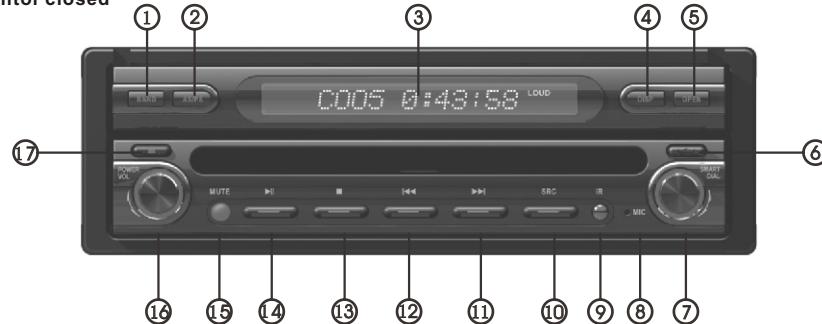
The reset procedure takes about 3 seconds after the Reset button is pushed.

When the reset procedure is completed, press **OPEN/CLOSE** and verify that the monitor opens, close the monitor once. Otherwise, it may not operate properly.

Control elements

Main unit

Monitor closed



Monitor Notes:

This model incorporates a motorized moving monitor. Before final installation, make sure the monitor will not obstruct the dash, shifter or any other controls.

Upon installation, do not attempt to move the monitor up/down by hand. Use the ANGLE ▲/▼ and OPEN buttons on the front panel only.

The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press OPEN again to resume the monitor open/close sequence.

1. Band

Press BAND to increment from FM1, FM2, FM3, AM10FM1.

2. AS/PS (Auto Store/Preset Scan)

Press AS/PS for 1 second to start station PRESET SCAN function.

Press AS/PS for 2 seconds to start AUTO STORE station preset function in current BAND.

3. Secondary LCD

Additional LCD for system information while monitor is closed



1) LOC

LOCAL indicator, icon will be off when DISTANT (DX) is selected

2) ST

STEREO radio station indicator

3) TIME

Displays TRACK time, TUNING frequency, MP3 ID3 info, & CLOCK, etc

4) LOUD

LOUDNESS selection indicator

4. Disp

Press the DISP button to display CLOCK information on the secondary LCD screen when the monitor is closed.

5. Open/Close Monitor

Press OPEN to open or close the monitor. The unit will emit 1 confirmation beep upon opening, 3 beeps when closing. Be careful not to touch or obstruct the monitor movement during the open/close sequence, or permanent damage could occur.

Notes: The unit will stop automatically during open/close if an obstacle is detected. If this occurs, remove the obstacle and press OPEN again to resume the monitor open/close sequence.

Audio can be heard while the monitor is closed.

6. Release

Press RELEASE, pull it off towards you, then the front panel is detached.

7. Rotary Encoder / Enter

Press to access MAIN menu, rotate clockwise/counter clockwise to select desired item and press once to ENTER.

8. Microphone

Microphone for the Bluetooth hands-free unit

9. IR

Infrared receiver

10. SRC (Mode conversion)

Press once to incrementally select desired source. Press MODE to select between TUNER, DVD, XM, iPod, CAMERA and AV1 inputs. Modes of operation are indicated in the OSD (On Screen Display) and secondary LCD.

Note:

iPod must be connected to appear in the MODE selection string.

11. Fast Forward

Fast forward the disc content.

12. Fast Reverse

Fast reverse the disc content.

13. Stop

Stop playback of DVD / CD / MP3 / iPod.

14. Play/Pause

Press once for PAUSE, press again for PLAY.

15. Mute

Press once to MUTE audio, press again to return audio, an icon indicator will flash on the TFT monitor.

16. Power On/Off

Press Volume knob for 1 sec to turn the unit on, the unit will beep 2 times. Press and hold POWER for more than 2secs, unit will beep 3 times, then turn off. NOTE: EJECT will still function even if POWER is off.

Volume

Rotate clockwise/counter clockwise for desired VOLUME level.

17. Eject

Press once for DISC ejection.

Monitor Open



Disc-In Indicator

Blue = No disc Red = Disc inserted

Monitor Angle ▲▼

Press ANGLE ▲ to increase the monitor view angle.

Press ANGLE ▼ to decrease the monitor view angle.

Notes: Do not attempt to move the monitor up/down by hand - severe damage will occur. Use the front panel buttons or the remote control only.

The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.

The last position of the monitor will be saved in memory. The monitor will return to its last position automatically the next time it is opened.

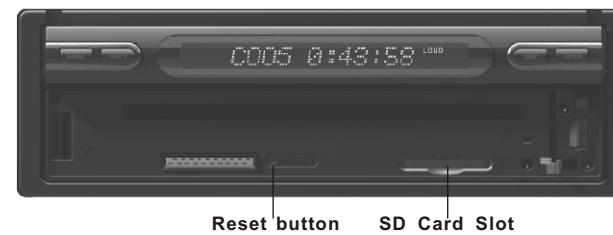
4.Info/Pic

Press INFO button for 1 sec to display DVD disc information.

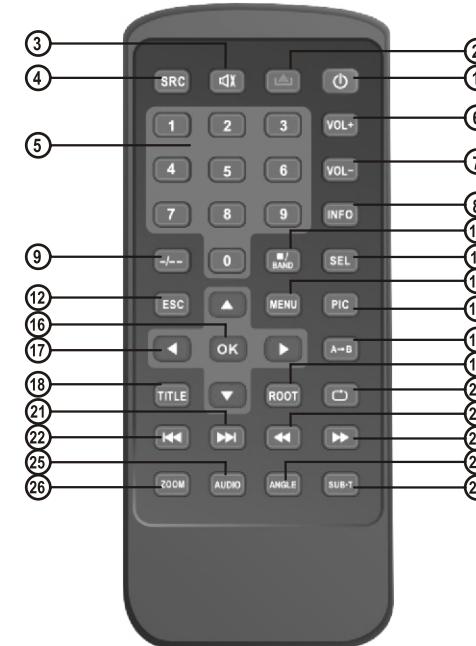
Press and hold INFO for 2 seconds to change TFT LCD BRIGHTNESS:

Press ANGLE ▲ to increase, ANGLE ▼ to decrease or use VOLUME rotary to adjust the brightness level up or down (0 minimum / 20 maximum), 10 is default.

After detaching the front panel



Remote



Name	Ref #	Signal	Function
Power	1	⊕	Turn the power on/off
Open	2	▲	Open/close the TFT monitor
Mute	3	🔇	Toggle on/off audio output
SRC	4	SRC	Select playing mode
Numeric button	5	1 2 3 4 5 6 7 8 9 0	Directly access certain chapter/track/preset station for current band
VOL up	6	VOL+	Increase the volume

Name	Ref #	Signal	Function
VOL down	7	VOL-	Decrease the volume
Information	8	INFO	Display playing information
GOTO search	9	-/-	Position search function on VCD/DVD mode
Stop/Band	10	■/ BAND	Select FM/AM band on Tuner mode Stop playback on others mode
Select	11	SEL	Enter the audio settings
ESC	12	ESC	Exit the current menu
Menu	13	MENU	Enter the main menu of system
Picture	14	PIC	Adjust the parameter of TFT settings
Repeat A→B	15	A→B	Set start point A and end point B to repeat continually
OK	16	OK	Start or pause playback confirm settings
Direction buttons	17	◀ ▶ ▲ ▼	Up/down/left/right to select items for setting
Title	18	TITLE	Enter the title menu of current source
Root	19	ROOT	Enter the main menu of the disc Turn on PBC when playing VCD
Repeat	20	□	Repeat playback of current chapter
Next	21	▶▶	Select the next chapter/track for playback Search an available radio station by increasing tuning frequency on tuner mode
Previous	22	◀◀	Select the previous chapter/track for playback Search an available radio station by decreasing tuning frequency on tuner mode
Fast Reverse	23	◀◀	Fast reverse the disc content
Fast Forward	24	▶▶	Fast forward the disc content
Audio	25	AUDIO	Change the audio language for disc playback
ZOOM	26	ZOOM	Zooming in/out on an image
Angle	27	ANGLE	Playback in different angel for a scene(if it is applicable)
SUB Title	28	SUB-T	Language selection for subtitle

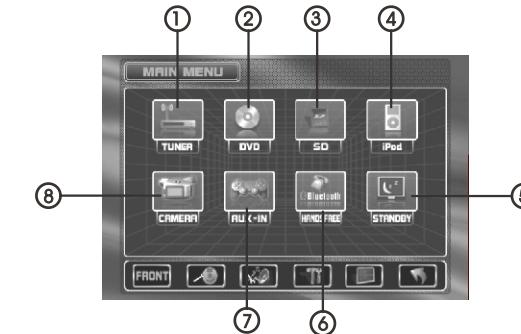
Main Access Menu

There are three methods to access the MAIN menu

Press the ENTER button on the right ROTARY knob.

Press the MENU button on the IR Remote control.

Touch the A area (upper left hand side) on the touch screen.



Touch Access Buttons

① Touch to access AM/FM TUNER mode.

② Touch to access CD/DVD mode, CD/DVD must be inserted.

③ Touch to access SD card MODE, SD card must be inserted.

④ Touch to access IPOD mode, iPod must be connected to activate.

⑤ Touch to STANDBY screen, touch screen again or any button to resume display.

⑥ Touch to access BLUETOOTH mode.

⑦ Touch to access AUXILIARY A/V INPUT mode.

⑧ Touch to access CAMERA mode, if optional camera isn't connected then "No Video Signal" will be displayed.

Notes:

VOLUME level can be controlled without interrupting STANDBY.

Touch Screen

Hidden Touch Screen area while in TUNER mode

There are several hidden TOUCH SCREEN areas outlined below, "A" area can be used in any mode to access MAIN menu



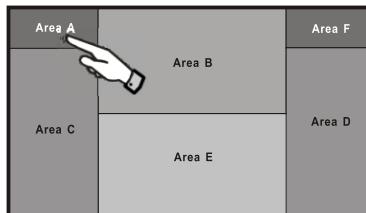
Hidden Touch Screen area while in DVD mode
 "A-F" areas can be used in DVD mode to access:
 A - MAIN menu access
 B - Displays DVD track information
 C - Selects PREVIOUS chapter
 D - Select NEXT chapter
 E - Displays the full DVD transport controls
 F - GOTO search menu

Touch Screen Controls

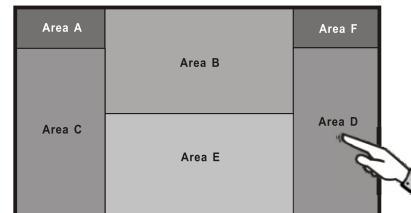
Using the Hidden Touch Screen Controls

Notes:

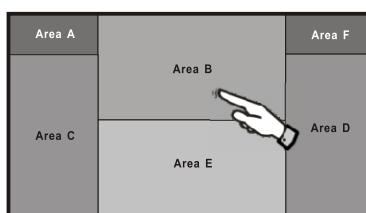
A DVD disc must be inserted to access these functions and features.



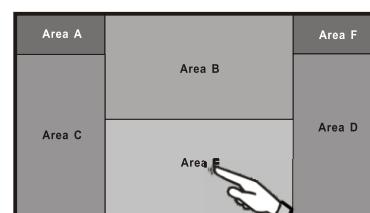
AREA A Access MAIN Menu



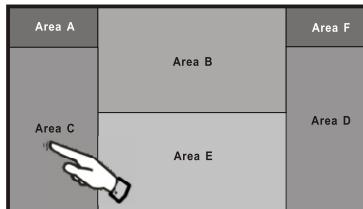
AREA D Selects NEXT Track



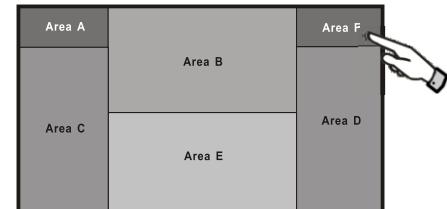
AREA B Displays DVD Track Information



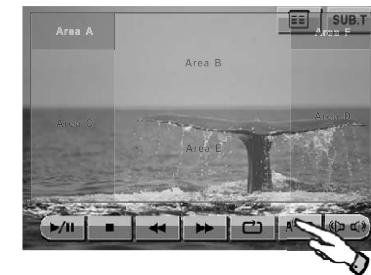
AREA E Full DVD Transport Controls



AREA C Selects PREVIOUS Track
 DVD Transport Control OSD



AREA F DVD Search



- ① Touch the PLAY button or on the front panel to resume disk playback.
- ② Touch the PAUSE button again to suspend the disc playback.
- ③ Touch button to STOP playback, touch or OK on the remote to resume playback.
- ④ Touch the REVERSE button to FAST REVERSE on DVD, 2x, 4x, 8x to 20x.
- ⑤ Touch the FF button to FAST FORWARD on DVD, 2x, 4x, 8x to 20x.
- ⑥ Touch the Repeat to scroll through the following:
DVD: Repeat Title, Repeat Chapter, Repeat OFF
MP3: Repeat Single, Repeat Folder, Repeat OFF
 - A. Use the A-B function to define a specific area of disc to repeat. Press the Repeat A-B button to set a start point of the (A) selection.
 - B. Press the A-B button again once you reach the desired end point (B) of the repeated section, The selected portion of the DVD will now repeat continuously.
 - C. Press A-B button once again to cancel the A-B selection and stop repeat playback
- ⑦ Touch to change Audio language playback
- ⑧ Touch to change Sub-title of DVD
- ⑨ Touch to return to DVD MAIN menu

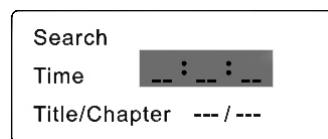
Notes: Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the EXD 7090 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

Searching a DVD

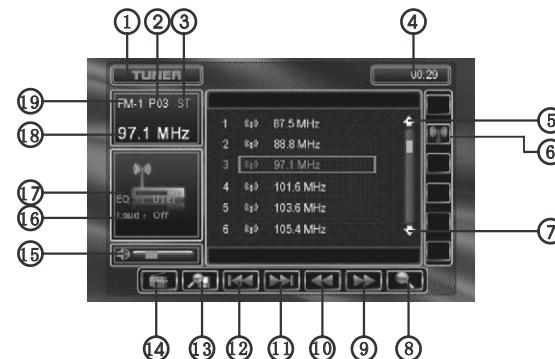
Touch the search  button in AREA F.

Searching by Time, Title or Chapter

1. Touch the in the TIME area.
2. A touch keypad will now appear, enter your desired TIME to search.
3. Enter OK.

**AM/FM Tuner Operation**

AM/FM Tuner TFT Display



- ① Current source MODE information, touch "A" area to return to MAIN source selection menu
- ② Current PRESET station indicator
- ③ STEREO broadcast indicator
- ④ Clock
- ⑤ PRESET page up
- ⑥ LOCAL / DISTANCE selection
- ⑦ PRESET page down
- ⑧ Auto station SCAN button
- ⑨ MANUAL TUNE up
- ⑩ MANUAL TUNE down
- ⑪ SEEK TUNE up
- ⑫ SEEK TUNE down

⑬ AS/PS (AUTO STORE / PRESET SCAN)**⑭ BAND selection, FM1, FM2, FM3, AM****⑮ VOLUME indicator****⑯ LOUD indicator****⑰ Equalizer indicator, touch to access AUDIO Setup menu****⑱ Current radio frequency indicator****⑲ Current radio BAND indicator****Auto Seek Tuning**

Press the  button to auto seeks up the next strongest station.

Press the  button to auto seeks down the next strongest station.

Manual Tuning

Press the  button to manually tune up one step at a time.

Press the  button to manually tune down one step at a time.

Auto Store (As)

Press and hold AS/PS for more than 2 seconds to automatically store the twelve strongest stations in the current band. Automatic local tuning is activated during the initial band scan, repeat for other bands.

Notes: All presets within the current band will be overwritten.

Program Scan (PS)

Press AS/PS for less than 2 seconds to scan presets 1-12 on the current band, pausing for 5 seconds at each. Press AS/PS again to cancel.

Scan

Press SCAN to preview strong stations on the current band, pausing for 5 seconds at each station. Press SCAN again to cancel.

