MXD25

INSTALLATION/OWNER'S MANUAL

AM/FM/CD Marine Receiver with
Auxiliary Input, USB Charging Port and Detachable Face

MARINE

COMPACT disc DIGITAL AUDIO

AUX Front Panel Input

USB *Charge Port*
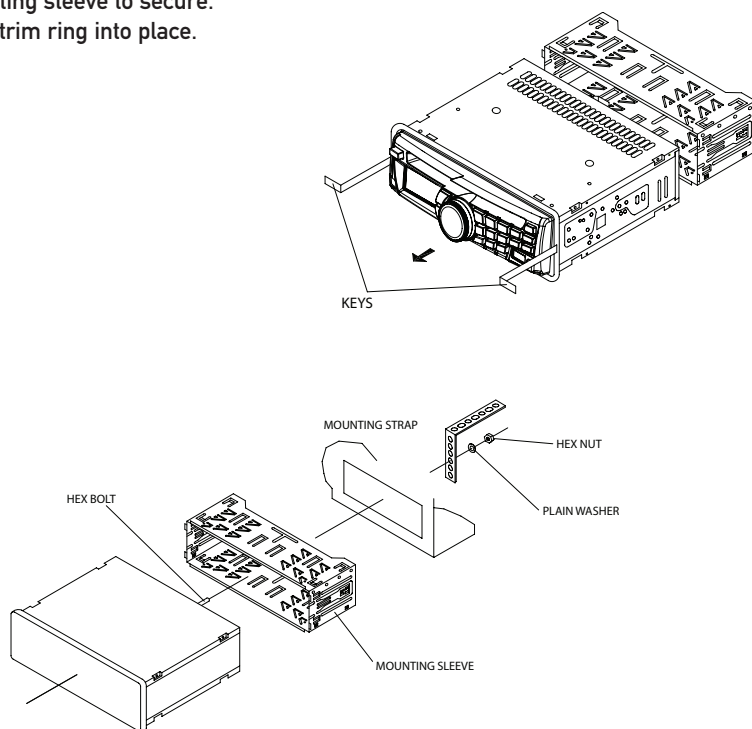
Dual®

Preparation

Please read entire manual before installation.

Before You Start

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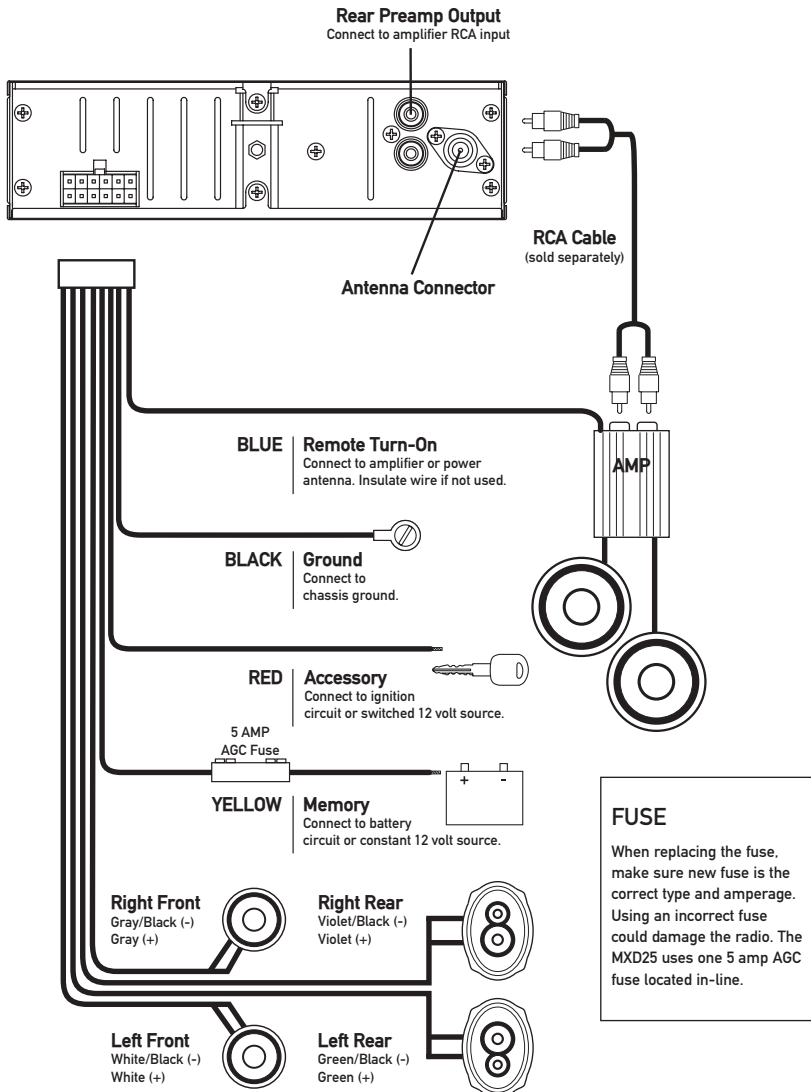
Getting Started

- Remove 2 transit screws located on top of the unit.
- Insert the supplied keys into the slots as shown, and slide the unit out of the mounting sleeve.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness and antenna. Consult a qualified technician if you are unsure.
- Test for correct operation and slide into mounting sleeve to secure.
- Snap trim ring into place.

KEYS

MOUNTING STRAP

HEX NUT
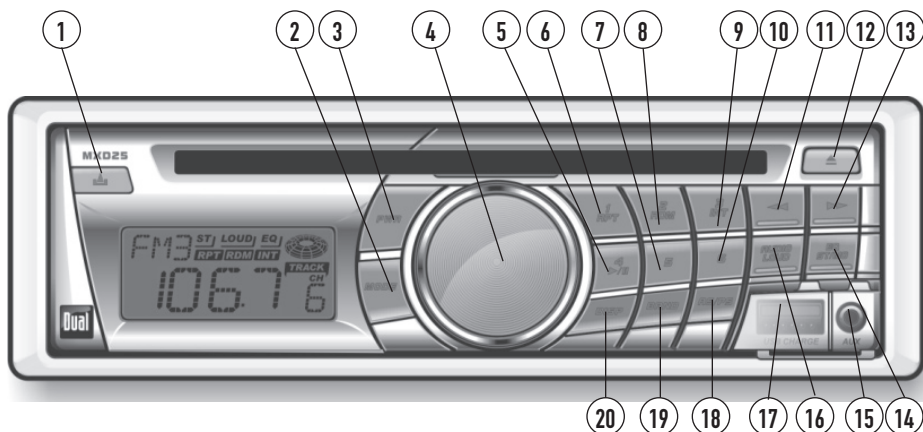
HEX BOLT

PLAIN WASHER

MOUNTING SLEEVE

TYPICAL MOUNTING METHOD

Wiring Diagram

Rear Preamp Output
Connect to amplifier RCA input

RCA Cable
(sold separately)

Antenna Connector

BLUE | **Remote Turn-On**
Connect to amplifier or power antenna. Insulate wire if not used.

AMP

BLACK | **Ground**
Connect to chassis ground.

RED | **Accessory**
Connect to ignition circuit or switched 12 volt source.

5 AMP
AGC Fuse

YELLOW | **Memory**
Connect to battery circuit or constant 12 volt source.

FUSE

When replacing the fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio. The MXD25 uses one 5 amp AGC fuse located in-line.

Right Front
Gray/Black (-)
Gray (+)

Right Rear
Violet/Black (-)
Violet (+)

Left Front
White/Black (-)
White (+)

Left Rear
Green/Black (-)
Green (+)

* **Caution** - Do not attach any speaker leads to ground as severe damage will occur.

Control Locations

1	Release	11	Tune/Track Down
2	Mode	12	Eject
3	Power	13	Tune/Track Up
4	Rotary Encoder	14	EQ/Stereo/Mono
5	Preset 4/Play/Pause	15	Auxiliary Input
6	Preset 1/Repeat	16	Audio/Loudness
7	Preset 5	17	USB Charge
8	Preset 2/Random	18	AS/PS
9	Preset 3/Intro	19	Band
10	Preset 6	20	Display

The MXD25 has an easy-to-use interface that provides a rewarding experience, as well as support for your favorite tunes. Audio CD-R and CD-RW disc playback ensures compatibility with your music collection, and the RCA preamp output provides the right connections to expand your system. From its front panel auxiliary input for connecting your MP3 player, to the detachable face for security assurance, this head unit has you covered.

General Operation

Faceplate Removal	Press **RELEASE** and pull away from the left side to remove. To re-install, insert right side of faceplate first then push left side to secure.
Semi-permanent Faceplate Installation	Remove trim ring and install supplied #1 x 7/32" Phillips head screw through left side of mounting frame into faceplate.
Power On/Off	Press **PWR** to turn the unit on. Inserting a CD will turn the unit on automatically. Press **PWR** to turn the unit off.
Mode	Press **MODE** to select between AM/FM, CD or auxiliary input. Modes of operation are indicated in the display.
Loud	Press and hold **LOUD** for 2 seconds to activate and deactivate the loud feature. Activating this feature will enhance the bass and treble frequencies when listening to music at low volumes.
Auxiliary Input	Insert a 3.5mm connector in the front panel AUX port. Connect the other end of the 3.5mm connector to the headphone output of an audio device, MP3 player, etc. Press **MODE** to select AUX mode.
Volume	Adjust volume using the **rotary encoder** (00-46).
Display	Press **DISP** to display the clock. The radio frequency (tuner mode) and CD track/elapsed time (CD player mode) will be shown by default.
Set the Clock	Press **DISP** to display the clock, then release. Press and hold **DISP** for 2 seconds, the clock will begin to flash. Press **TRACK ◄◄** to adjust the hours and **TRACK ►►** to adjust the minutes. Clock settings will be saved after 5 seconds.
12/24-hour Clock	The clock will display 12-hour AM/PM time in USA frequency spacing mode (PM 10:00). In European frequency spacing mode, the clock will display 24-hour time (22:00).
Reset	Press and hold for more than 2 seconds to **RESET** the unit upon initial installation. The **RESET** button is located behind the faceplate.

General Operation

USB Charging Port	Insert the USB connector of a battery powered USB device into the USB charging port on the front panel, which provides 5 volts DC and 1.0 amps. The USB device will immediately begin charging.
	Note: The USB charging port may not be compatible with every device due to differences in power requirements.
	Note: This USB port provides power only, and will not playback music from a USB device.
Select Audio	Press **AUDIO** to select between Volume (default), Bass, Treble, Balance & Fader.

→VOLUME → BASS→TREBLE→BALANCE→FADER

Bass	Press **AUDIO** until BA appears Rotate the **rotary encoder** left/right to adjust (-6 minimum / 6 maximum)
Treble	Press **AUDIO** until TR appears Rotate the **rotary encoder** left/right to adjust (-6 minimum / 6 maximum)
Balance	Press **AUDIO** until B appears Rotate the **rotary encoder** left/right to adjust (BL 15/BR 15) B 00 represents equal balance.
Fader	Press **AUDIO** until F appears Rotate the **rotary encoder** left/right to adjust (FF 15/FR 15) F 00 represents equal balance.

Tuner Operation

Seek Tuning	Press **TUNE ◄◄** or **TUNE ►►** momentarily to seek the next strong station.
Manual Tuning	Press **TUNE ◄◄** or **TUNE ►►** for more than 2 seconds, then release. "MANU" will momentarily appear in the display. Press **TUNE ◄◄** or **TUNE ►►** momentarily to move radio frequency up or down one step at a time. Press and hold to advance quickly. If tuning is not adjusted for 5 seconds, the unit will return to seek tuning mode (default). "AUTO" will momentarily appear in the display.
FM Stereo/Mono	Press **ST/MO** for more than 2 seconds during FM tuner operation to select mono or stereo (default) reception of the broadcast signal.
Band	Press **BAND** to select between FM1, FM2, FM3 and AM1, AM2 bands.
Frequency Spacing	Press and hold **BAND** then press **TUNE ◄◄** to select European frequency spacing. Press and hold **BAND** then press **TUNE ►►** to select USA frequency spacing (default). Anytime frequency spacing is changed, all station presets are erased.
Storing and Recalling Station Presets	Up to 18 FM stations and 12 AM stations can be stored. To store a station, select the desired band and station. Press and hold the desired preset button for more than 2 seconds. When stored, the preset number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button.
Automatically Store Stations	Press **AS/PS** for more than 2 seconds to automatically store the six strongest stations in the current band.
Preset Scan	Press **AS/PS** momentarily to scan presets 1-6 on the current band, pausing for 5 seconds at each. Press **AS/PS** again to cancel.

CD Player Operation

Insert CD	With the label facing up, insert a standard size CD into the CD slot. The CD will automatically begin playback.
Eject CD	Press the **EJECT** button to stop and eject the CD. The unit will change to tuner mode.
Track Select	Press **TRACK ▶▶** to skip to the beginning of the next track. Press **TRACK ◀◀** to return to the beginning of the current track. Pressing **TRACK ◀◀** again skips to the beginning of the previous track.
Fast Forward and Reverse	Press and hold **TRACK ▶▶** or **TRACK ◀◀** to fast forward or reverse a track.
Pause	Press ▶/ **ǁ** to temporarily stop CD playback. Press ▶/ **ǁ** again to resume playback.
Intro	Press **INT** to play the first 10 seconds of each track. Press **INT** to cancel.
Repeat	Press **RPT** to continuously repeat selected track. Press **RPT** to cancel.
Random	Press **RDM** to play all tracks in random order. Press **RDM** again to cancel.
CD-R/CD-RW Compatibility	Some CD-Rs and CD-RWs may be incompatible with this unit, depending on media type and recording method. Note: CD-R recording sessions must be closed (finalized) for playback.

Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuses	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Excessive skipping	Unit is not mounted correctly or backstrap is not secure	Check mounting sleeve and backstrap support
	Physical defect in media (CD, CD-R or CD-RW)	Check media for scratches
Unit will not accept a disc	CD mechanism position out of alignment	Press **EJECT** for 3 seconds to reset CD mechanism position
	CD transit screws still in place	Remove 2 transit screws located on top of the unit.

Error Codes

Error Code	Cause	Action
ER-1 appears on display	Disc error	Press eject or RESET
ER-2 appears on display	Mechanism error	Press eject or RESET
ER-3 appears on display	Servo error or disc is in upside down	Press eject or RESET

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product.

What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.

2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

   • Call us toll-free at 1-866-382-5476
   • E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

Specifications

CD Player	Frequency response: 20Hz–20kHz Channel separation @ 1kHz: >65dB D/A converter: 1 Bit
FM Tuner	Tuning range: 87.5MHz–107.9MHz Usable sensitivity: 12dBf 50dB quieting sensitivity: 16dBf Stereo separation @ 1kHz: 40dB Frequency response: 30Hz–13kHz
AM Tuner	Tuning range: 530kHz–1710kHz Usable sensitivity: 30uV Frequency response: 80Hz–2kHz
General	Operating voltage: 11-16 VDC, negative ground Speaker output impedance: 4~8 ohms Fuse: 5 amp AGC Dimensions: 7" x 7" x 2" (178 x 178 x 51 mm)

Design and specifications subject to change without notice.

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

Power Output: 5 Watts RMS x 4 channels at 4 ohms and $\leq$ 1% THD+N
Signal to noise ratio: 75dBA (reference: 1 watt into 4 ohms)

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Dual Electronics Corp.
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