DS18 MRX300D Marine and Powersport Head Unit





DS18 MRX300D Marine and Powersport Head Unit Owner's Manual

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OWNER'S MANUAL

4 Related Posts



MRX300D





△ FOR ALL ELEMENTS



(3) ZONES with Independent Volume and Tone Control





INTRODUCTION

Thank you for choosing the MRX300D! Your choice in the MRX Series of head unit indicates a desire for high quality music reproduction. The MRX Series is the result of decades of marine audio expertise.

The MRX300D offers complete control over your marine audio system's reproduction. These models feature even more ways to access the music you love from the comfort of your boat. This high powered head unit delivers insane amounts of power for it's size, and allows access to BT streaming, AUX Input, USB Operation, and Radio Access. Simply put, there is no marine head unit that can compare to the sophistication, beauty, and precision of the MRX300D.

To make sure your MRX300D performs at its peak, please read, and follow the instructions in this manual. Professional installation by an authorized DS18 dealer is highly recommended! Your system is one step closer to being complete with the MRX300D!



FEATURES

- AM/FM tuner + DAB+
- 30 Radio Presets (18FM/12AM)
- Universal round mounting hole
- Low Voltage Warning Alert
- IPX 6 Rating & UV/Salt resistance
- EEPROM type to store data when power is disconnected

DISPLAY

- 3" Full Color TFT Display
- · Screen with Gorilla Glass and Wet Bonded
- Adjustable 7 Colors backlit Buttons
- Rubber Buttons and Rotatory Knob for easy operation

AUDIO

- 3 Zone with Independent Vol and Tone Control
- Zone 1: L+R+SubW / Zone 2: L+R+SubW/ Zone3: L+R+SubW
- 2 Band EQ (Bass, Treble) independent on each zone
- 4.5 Volts Pre-amp output
- 25W X 4 RMS @ 2 ohm Stable
- 50W X 4 MAX @ 2 ohm Stable

CONNECTIVITY

- Bluetooth v5.0 for superior audio streaming
- USB Port for Music &2.1AmpCharger
- Supports up to 64Gb of MP3 and WMA files
- · Audio Aux input
- Wired Remote Input (Compatible with MXRC)
- · Rearview Camera Video Input

INSIDE OF THE BOX

- Main Unit
- Power/Speaker Harness
- Screws X 2PCS
- Hex Head Screws X 2PCS
- U Bracket
- · Instruction Manual

SAFETY INSTRUCTION



To prevent injury and damage to the unit, please read and follow the instructions in this manual. If you feel unsure about installing this system yourself, have it installed by a qualified technician.

- 1. Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire, and / or possible injury.
- 2. This player can only be used by the 12V DC cathode grounding electrical system.
- 3. Do not connect the battery terminals until the player is fully assembled.
- 4. Please make sure to connect the yellow wire to the constant power battery (+).
- 5. If you need to replace the fuse, make sure the fuse size and capacity are the same.
- 6. Using good quality 4-2 ohms speaker can enhance the audio performance of the system.
- 7. Make sure to start connecting other wires before power connection.
- 8. To avoid a short circuit, please make sure all the exposed wires are insulated with marine grade butt connectors.
- 9. Please make the connections to the player according to this instruction manual, a wrong connection may cause damage and may void warranty.

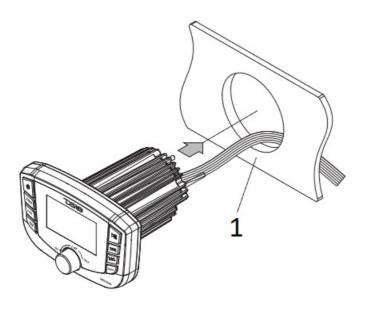


INSTALLATION/ MOUNTING

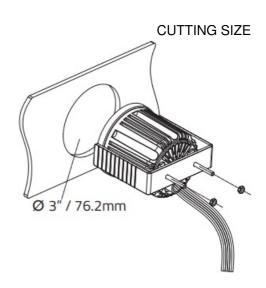
MOUNTING (USING U BRACKET)

To mount the unit, you will need to find a flat surface with adequate clearance behind it that provides enough clearance for the unit and all its necessary wiring.

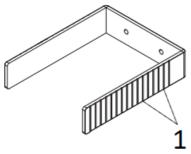
- 1. Once you have determined a mounting location, you will need to cut a circular hole 3" (76.2 mm) in diameter
- 2. After the hole is cut slide the unit and wiring through the hole.
- 3. Take the U bracket and slide over the two studs on the back of the unit. Tighten down with supplied nuts.
- 4. Plug in all wiring harnesses and cables. Refer to the wiring diagram for wire harness connection types.



1. DASHBOARD

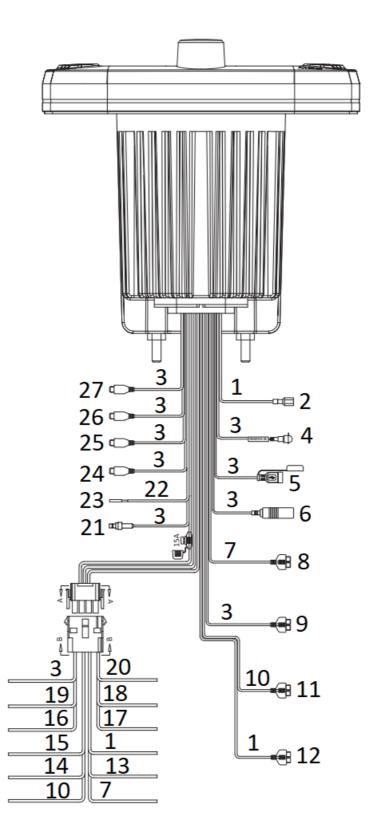


MOUNTING BRACKET



1. BREAK LINES

WIRING CONNECTION



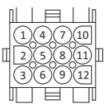
- 1. RED
- 2. REMOTE +12V OUT (Connect to MXRC)
- 3. BLACK
- 4. WIRED REMOTE CONTROL (MXRC)
- 5. USB
- 6. RADIO ANTENNA
- 7. GREY
- 8. WHITE (FRONT ZONE 1 LINE OUT LEFT)
 RED (FRONT ZONE 1 LINE OUT RIGHT)
- 9. WHITE (CENTRAL ZONE 2 LINE OUT LEFT)

RED (CENTRAL ZONE 2 LINE OUT RIGHT)

- 10. GREEN
- 11. WHITE (REAR ZONE 3 LINE OUT LEFT)
 RED (REAR ZONE 3 LINE OUT RIGHT
- 12. WHITE (AUX IN LEFT)
 RED (AUX IN RIGHT)
- 13. GREY/BLACK
- 14. GREEN/BLACK
- 15. BLUE
- 16. PURPLE
- 17. WHITE
- 18. WHITE/BLACK
- 19. PURPLE/BLACK
- 20. YELLOW
- 21. DAB AMT(SMB)
- 22. BROWN
- 23. CAMERA TRIGGER
- 24. CAMERA IN
- 25. REAR ZONE 3 SUB
- 26. CENTRAL ZONE 2 SUB
- 27. FRONT ZONE 1 SUB



SECTION A



SECTION B

PIN NO.	WIRE COLOR	WIRE DEFINITION	AWG
1	BLACK	GROUND (-)	16
2	PURPLE/BLACK	SPEAKER REAR RIGHT (-)	20
3	PURPLE	SPEAKER REAR RIGHT (+)	20
4	BLUE	REMOTE / ANTENNA OUTPUT (+12v)	20
5	GREEN/BLACK	SPEAKER REAR LEFT (-)	20
6	GREEN	SPEAKER REAR LEFT (+)	20
7	RED	ACC (+12V)	20
8	GREY/BLACK	SPEAKER FRONT RIGHT (-)	20
9	GREY	SPEAKER FRONT RIGHT (+)	20
10	YELLOW	BATTERY (+12V IN)	16
11	WHITE/BLACK	SPEAKER FRONT LEFT (-)	20
12	WHITE	SPEAKER FRONT LEFT (+)	20

ZONE 1 OUTPUTS:

SPEAKER FRONT OUTPUT LEFT & RIGHT RCA FRONT (ZONE 1) LINE OUT LEFT & RIGHT RCA FRONT (ZONE 1) SUBWOOFER OUT

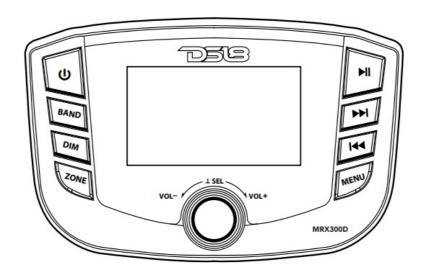
ZONE 2 OUTPUTS:

SPEAKER REAR OUTPUT LEFT & RIGHT RCA CENTRAL (ZONE 2) LINE OUT LEFT & RIGHT RCA CENTRAL (ZONE 2) SUBWOOFER OUT

ZONE 3 OUTPUTS:

RCA REAR (ZONE 3) LINE OUT LEFT & RIGHT RCA REAR (ZONE 3) SUBWOOFER OUT

BASIC OPERATION



KEY S	ACT	STAN D BY	RADIO	USB	AUX	BT MUSIC	DAB+
ds	SH OR T	POWE R ON	MUTE ON/OF F	MUTE ON/OF F	MUTE ON/OF F	MUTE ON/OF F	MUTE ON/OFF
Ф	LO NG	/	POWER OFF	POWER OFF	POWER OFF	POWER OFF	POWER OFF
BAN	SH OR T	/	FM-AM	MUSIC-MOVI E-PHOTO	/	/	AUTO STORE
D	LO NG	/	AUTO STORE	/	/	/	BROWSE DAB ST ATION LIST
	SH OR T	/	DARK / BRIG HT	DARK / BRIG HT	DARK / BRIG HT	DARK / BRIG HT	DARK / BRIGHT
DIM	LO NG	/	CAMERA ON/ OFF	CAMERA ON/ OFF	CAMERA ON/ OFF	CAMERA ON/ OFF	CAMERA ON/OFF
701	SH OR T	/	FRONT ZONE CENTRAL ZO NE REAR ZONE	FRONT ZONE CENTRAL ZONE REAR ZONE			
ZON E							

	LO NG	/	FRONT SUB CENTRAL SU B REAR SUB	FRONT SUB CENTRAL SUB REAR SUB			
NII	SH OR T	/	/	PAUSE/PLAY	/	PAUSE/PLAY	SET FAVORITE S TATIONS
►II	LO NG	/	RDS: ON/OFF	RPT-RDM-RP T ALL	/	/	/
	SH OR T	/	SEEK UP	NEXT FILE	/	NEXT FILE	NEXT STATION
>>	LO NG	/	MANUAL TUN E UP	FAST FOWAR D	/	/	/
144	SH OR T	/	SEEK DOWN	PREVIOUS FI LE	/	PREVIOUS FI LE	PREVIOUS STATI ON
	LO NG	/	MANUAL TUN E DOWN	FAST REVER SE	/	1	/
MEN	SH OR T	/	SETTING ME NU/BACK	SETTING ME NU /BACK	SETTING ME NU/BACK	SETTING ME NU /BACK	SETTING MENU / BACK
U	LO NG	/	STATION LIST	SONG LIST			STATION LIST
SEL/	SH OR T	/	ZONES/SELE CT OK	ZONES/SELE CT OK	ZONES/SELE CT OK	ZONES/SELE CT OK	ZONES/SELECT OK
VOL	LO NG	/	SYSTEM SET TINGS	SYSTEM SET TINGS	SYSTEM SET TINGS	SYSTEM SET TINGS	SYSTEM SETTIN GS

MODE OPERATION

RADIO (AM / FM) OPERATION

Press MENU button to select the Radio source option and shortly press BAND button to FM / AM and then rotate the Vol to select, press the encoder to confirm your selection.

To auto seek station, press and hold **BAND** button for 3 seconds to auto store radio station.

To manually tune to a station, briefly press the \bowtie / \bowtie buttons. To Seek up/down the radio stations, press and hold the \bowtie / \bowtie buttons. To go to the next/previous station, continue holding the \bowtie / \bowtie .

To check Station List, press and hold **MENU** button.

To RDS setting, press and hold button to select RDS setting (AF ON/OFF, TA ON/OFF etc.) and then rotate the Vol to select, press the encoder to confirm your selection.

USB OPERATION

Once your device is connected to the source unit, this feature enables you to manage your device's playback directly from the unit. Press the **MENU** button to choose the USB source option, then briefly press the **BAND** button to cycle between Music, Movie, and Photo modes. Next, use the Volume knob to make your selection, and press the encoder to confirm your choice.

To play or pause a song, briefly press the **II** button. Press and hold the **II** button to cycle between Repeat (RPT), Random (RDM), and Repeat All (RPT ALL) modes. Then, use the Volume knob to make your choice and press the encoder to confirm.

For changing to the Next File or Previous File, briefly press the >> / I buttons. To skip a track forward or backward, press and hold the >> / I buttons to activate Fast Forward or Fast Reverse mode.

To check Song List, press and hold **MENU** button.

AUX (AUXILIARITY INPUT) OPERATION

After your device is plugged into the source unit, this feature allows you to play music from your device. Press **MENU** button to select the **AUX** source option and use your plugged-in device to control song/ track selection, play/pause and track skip Fast Forward/Fast Reverse.

BLUETOOTH OPERATION

After your device is paired to the source unit, this feature allows you to control the playback of your device directly from the unit. Press the **MENU** button to select the BLUETOOTH source option.

To begin, search for and select the Bluetooth device labeled "MRX300D" on your phone. If prompted, input the password "0000". Once the pairing is successful, you will see the Bluetooth symbol displayed on the screen.

To play or pause a song, simply press the ▶II button briefly.

To switch to the Next File or Previous File, just briefly press the ▶ / ₩ buttons.

DAB OPERATION

To access DAB functionality, press the **MENU** button and choose the **DAB** source option. For automatic radio station storage, briefly press the **BAND** button.

To browse through the list of **DAB** stations, press and hold the **BAND** button. To mark stations as favorites, simply press the **>II** button briefly.

To manually seek a station, briefly press the ► / I buttons for Next/Previous Station.

To view the complete Station List, press and hold the **MENU** button.

SETTINGS MENU

SETTINGS MENU

To access the unit settings, short press **MENU** button, rotate the encoder to the **SETTING** icon and then press to confirm. Rotate the encoder to scroll through the list of setting and short press the encoder button to select the setting you wish to change. (Language>Area>Front Zone Audio>Central Zone Audio> Rear Zone Audio>Beep>Buttons Color>Theme>Wallpaper>Clock Setting>Version> Reset)

LANGUAGE

Rotate the encoder to select the Language (English > Français > Español > Portuguese > Chinese) and then short press to confirm your selection.

AREA

Rotate the encoder to select the Area (Europe/USA) and then short press to confirm your selection.

FRONT ZONE AUDIO/CENTRAL ZONE AUDIO /REAR ZONE AUDIO

Rotate the encoder to the Zone audio setting (Bass> Treble>Balance>Subwoofer (Off/ 80Hz/120Hz /160Hz)> EQ (S.Bass / Vocal / Powerful / Clarity) > Loud) and then short press to confirm your selection. Short press MENU button to exit and go back up one level.

BEEP

Rotate the encoder to turn the Beep sound **ON/Off** and then short press to confirm your selection.

BUTTONS COLOR

Rotate the encoder button to select the Buttons Color Options (Auto Color> Red > Green> Blue> Purple> Yellow> Cyan> White) and then short press to confirm your selection.

THEME

Rotate the encoder button to select the Buttons Color Options (Night/ Day) and then short press to confirm your selection.

WALLPAPER

Rotate the encoder to select the wallpaper and then short press to confirm your selection.

CLOCK SETTING

Rotate the encoder to select the clock setting (Clock Format/Clock Adjust) and then short press to confirm your selection. Short press **MENU** button to exit and go back up one level.

CLOCK FORMAT

CLOCK ADJUST

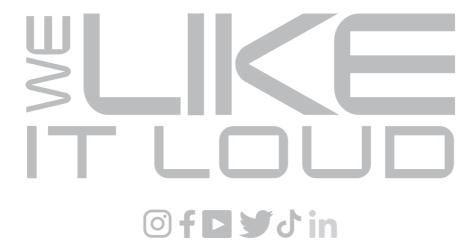
Adjust the Hours and Minutes

VERSION

The firmware version of the unit will be displayed.

RESET

Rotate the encoder to select Yes/No, selecting Yes will reset your unit back to factory default settings.



12Khz)

SPECIFICATIONS

DISPLAY:

Type	. Thin Film Transistor (TFT) Display
Resolution	640*360 pixel, IPS

AUDIO:

Power Output:	
RMS	4 x 18W @ 4ohm
4 x 25W @ 2ohm	
MAX	4 x 50W @ 2ohm
Minimum Load	2 ohm Stable per Channel
Frequency Response	20 Hz – 20 kHz
RCA Pre-Out Voltage	4.5 Volts
Output Impedance	500ohm
Equalizer	2 Bands (Bass 80Hz, Treble
Presets	YES (S-Bass / Vocal /Powerful / cla

Subwoofer Control	Level (0 to -40)
Audio Zones	3 Zones (Stereo + Subwoofer each)
Independent Zone Control YE	ES (Level/Tone)
Audio Input	L+B BCA (Aux Input)

TUNER:

FM Frequency Range	. 87.5 – 108 MHz
AM Frequency Range	. 522 – 1620 KHz
Tuner Presets	18 FM / 12 AM
Radio Data System	YES (AF/TA/NEWS) Selectable

DAB:

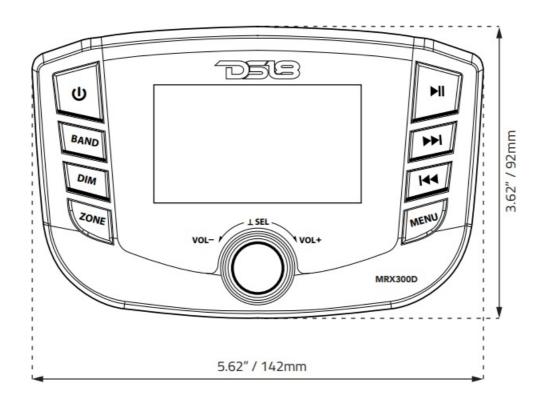
Frequency Range	174.928-239.200 MHz
Sensitivity	93 dB
Stereo separation	50 dB at 1 kHz

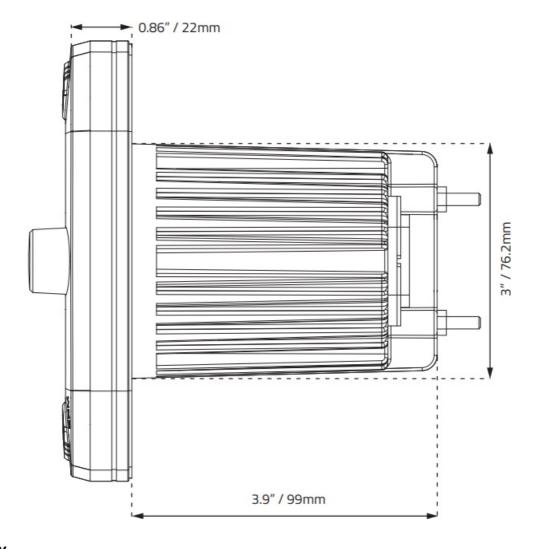
CONNECTIVITY:

Bluetooth Version	5.0 + EDR	
Audio Streaming	A2DP	
USB Compatibility	v2.0	
USB Capacity	64 Gb Max	
USB Charge Capacity	2.1Amp	
Audio Files Compatibility	MP3, WMA	

Remote Control Wired 3.5mm Jack Input (Compatible with MXRC)

MEASUREMENTS





WARRANTY

Please visit our website DS18.com for more information on our warranty policy

We reserve the right to change products and specifications at any time without notice. Images may or may not include optional equipment.



WARNING: Cancer and Reproductive Harm. www.P65Warning.ca.gov

TROUBLESHOOTING

TROUBLE CAUSE		SOLUTION		
Basic				
	Blown fuse	Check fuse of the unit, replace with correct rating.		
	Vehicle's ignition is off	If connected following the instructions, the unit will not op erate with ignition off		
Unit does not turn on	Voltage applied to Red wire i s not between 10.5 & 16 volt s or there is no voltage pres ent.	Check battery, connections and fuses and repair or replace as necessary. If voltage is above+ 16 volts, have the electrical system inspected by an authorized service center.		
	Unit is not properly grounded.	Check wiring and repair as necessary.		
	Rad	lio Tuner		
Tuner fails to tune an y stations	No antenna or disconnected or open connection in cable.	Check all connections and repair as necessary.		
Unable to tune station s in seek mode You are in a weak signal are a.		Make sure the tuner LOC mode is off.		
	USE	B Devices		
USB device cannot b	The USB device has been in serted in the wrong direction .	Reversing the connection direction of the USB device, try reinserting.		
e inserted	The USB device connector i s broken.	Replace with a new USB device.		
USB device is not re cognized	The USB device is damaged .	Disconnect USB device and reconnect. If the device i II not recognized, try replacing with a different USB		
Cognized	Connectors are loose.	device.		
No Sound heard with the display "No File" shown	No MP3 / WMA files are stor ed on the USB device.	Store these files properly on the USB device.		
Sound skip or is nois y	MP3 / WMA files are not cre ated properly.	Use MP3/WMA files that are encoded correctly.		
MP3 is not playing b ack	Writing error occurred. The MP3 format is not compatibl e.	Make sure MP3 has been written in a supported format.		
BLUETOOTH				
Cannot pair BT	The BT function of the devic e is not enabled.	Refer to the user manual of the device for how to enable the BT function.		
The audio quality is p oor after connection with a BT enabled de vice	The BT reception is poor.	Move the device closer to the audio system or remove an y obstacle between the device and the system antenna.		

Declaration

Hereby, SPIRIT LLC declares that this product is in compliance with the essential requirements and other relevant



FOR MORE INFORMATION PLEASE VISIT DS18.COM





V1

Documents / Resources



<u>DS18 MRX300D Marine and Powersport Head Unit</u> [pdf] Owner's Manual MRX300D Marine and Powersport Head Unit, MRX300D, Marine and Powersport Head Unit, Powersport Head Unit, Unit

References

• User Manual

Manuals+, Privacy Policy

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