



SPHERETM

Audio Visual | Off Grid | Appliances

SPHERE Single Din Audio Head Unit



Instruction Manual
Code: 900-21000



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INSTALLATION

PRECAUTIONS

Choose the mounting location where the unit will not interfere with other existing componentry on or behind the mounting surface.

Before finalising the installation of the unit, connect the wiring temporarily to ensure it is all connected up properly and the unit functions correctly.

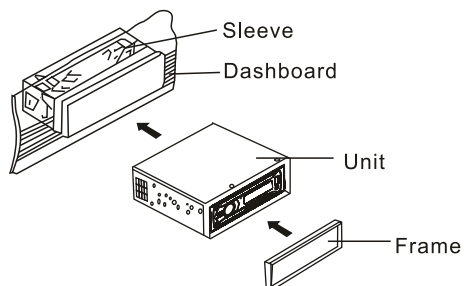
Use only the parts included with the unit to ensure proper installation. The use of unauthorised parts may cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

If installing into a driving vehicle, install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.

Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, other heat sources, or where it would be subject to dust, dirt or excessive vibration.

COMPONENT NAMES:

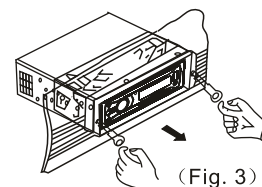
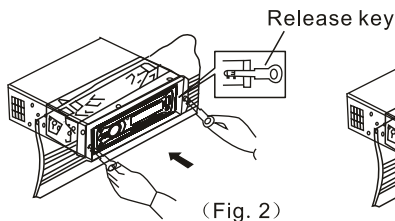
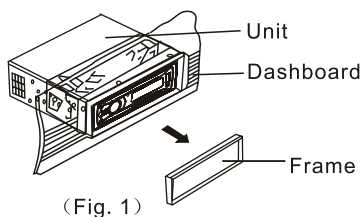




SPHERE

INSTALLATION INSTRUCTIONS:

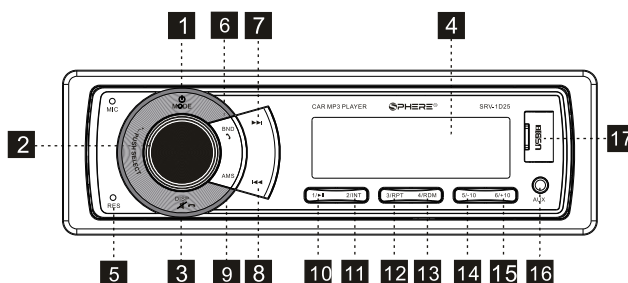
1. Insert sleeve into installation holes of dashboard.
2. Insert unit into sleeve.
3. Install decoration frame on front panel.



DISMOUNTING INSTRUCTIONS:

1. Insert fingers into the groove in the front of decoration frame and pull out decoration frame (Fig. 1).
2. Insert the release key into the gap between unit and sleeve (Fig. 2).
3. Pull out the release key and make possible to remove the unit from the dashboard (Fig. 3).

PANEL LAYOUT

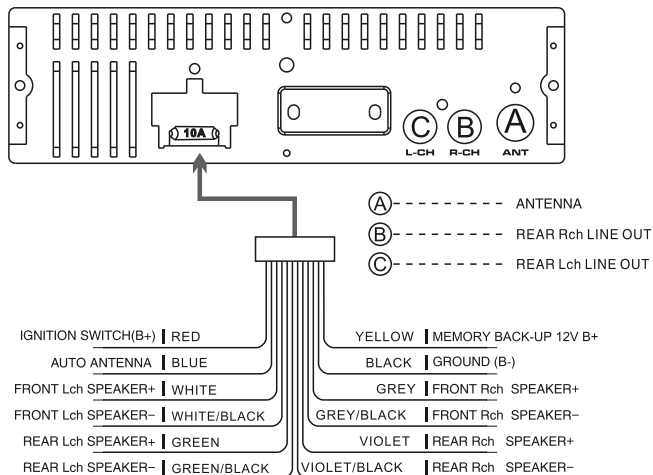


- | | |
|------------------------------------|-----------------------------|
| 1 Power/MOD Button | 12 Repeat & Preset Button 3 |
| 2 Volume/Sel Button | 13 Random & Preset Button 4 |
| 3 Display/Mute/ Button | 14 Preset Button 5 |
| 4 LCD Display | 15 Preset Button 6 |
| 5 Reset Button | 16 AUX IN JACK |
| 6 Band / switch / ID3 select | 17 USB connector |
| 7 Tune Seek & Track forward Button | |
| 8 Tune Seek & Track reverse Button | |
| 9 Automatically memory storing | |
| 10 Play/pause & Preset Button 1 | |
| 11 Intro & Preset Button 2 | |



SPHERE

WIRING DIAGRAM



GENERAL OPERATION

POWER /MOD Selection

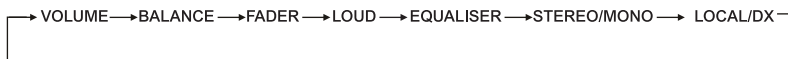
When powered off, short press to switch power on

When powered on, short press to switch between modes, and long press to power off.

SOUND ADJUSTMENT

Turn the volume knob (2) to set the desired volume level.

Press the knob/SEL button (2) to scroll through options in the following order
Option:



VOLUME

Adjust volume level by using VOL/SEL (2) knob. Turn the VOL knob to left to decrease the sound level, turn the VOL knob to right to increase the sound level.

Note: The unit is initially set to volume mode.

BALANCE

Press VOL/ SEL button(2) one time. Adjust sound balance between left and right speakers by using VOL/ SEL(2)Knob.

FADER

Press SEL button(2) two times. Adjust sound balance between front and rear speakers by using VOL/ SEL(2)Knob.

LOUD ON/OFF MODE

Press SEL button(2) three times. Adjust loudness ON/OFF by using the VOL/SEL knob. With loud "ON" mode, the bass and treble response will be boosted.



SPHERE

EQ OFF/ON

Press SEL button(2) four times. Scroll between equaliser options "USER-FLAT-ROCK-POP-CLASS" by using the VOL/SEL knob.

Under USER setting, the user can adjust the setting for the 9 bands of the Equaliser. These include bands 60HZ, 100HZ, 250HZ, 500HZ, 1K, 2K, 5K, 10K, 15K each with a +/- 7dB boost adjustment capability.

STEREO/MONO

Press SEL button(2) five times. When FM stations are weak and are disturbed, listening quality can be improved by selecting MONO.

LOCAL/DX

Press SEL button(2) six times. "LOCAL" position in areas with strong signals to let radio stop at only strong stations during manual tuning. Select distant position (DX) in areas with weak signals to listen to all stations.

MORE OPTIONS MENU

Press and hold VOL/SEL button for several seconds, additional menu is now accessed and selectable in the following order:



Turn VOL/SEL knob to make adjustments and short press to confirm selection and/or move to the next option.

Long press or leave for a few seconds to return to the main screen.

BEEP SETTINGS

Set the Beep tone to ON/OFF to turn the beep sound on or off for button presses. Use the VOL/SEL knob to scroll ON/OFF, short press to confirm or move to next menu.

USA/EU

For Australian frequencies, the correct setting is EU.

TALK

Set the talk volume when using Wireless Connectivity for phone calls. Use the VOL/SEL knob to select desired default volume setting, short press to confirm or move to next menu.

VERSION

Displays radio version number. Short press to exit.

RESET

RESET button (5) is placed on the housing and must be activated with either a ball point pen or thin metal object. (Do not use sharp object to avoid damaging the unit.) The RESET button (5) is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.



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DISPLAY/MUTE

Short press DISP button (3) to mute sound.

Long Press DISP button (3) to display time for 3 sec after which it returns to the previous display unless DISP key is pressed again.

If DISP is pressed again, clock mode switches to clock Adjusting mode and the clock display begins flashing. At this time the hour can be changed by turning the volume knob to desire hour.

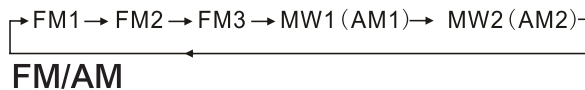
Press DISP again to set minutes in the same manor.

Press and hold DISP to exit clock setting.

RADIO/USB OPERATION

BAND SELECTION

In tuner mode, press BAND button (6) to select the desired band. The reception band will change in the following order:



STATION SELECTION

During radio mode, short press "SEEK ◀◀" or "SEEK ▶▶" buttons to automatically search a station, long press "SEEK ◀◀" or "SEEK ▶▶" buttons for more than 1 second to enter manual tuning mode.

AUTOMATIC MEMORY STORING & PROGRAM SCANNING

- Automatic Memory Storing

Press AMS(MP3) button (9) for several seconds, the radio searches from the current frequency and checks the signal strength until one cycle search is finished. The 6 strongest stations are stored into the corresponding preset number button.

- Program Scanning

Short press AMS(MP3) button (9) to scan preset station. When the AMS mode is in progress, the unit will display each stored station for 5 seconds.

PRESET MEMORY AND STATION STORING

Press preset button (10~15)

RADIO MODE.

M1 ~ M6

- PRESET MEMORY is loaded when any memory number key is pressed for less than 1 second. (Short Press)

- PRESET MEMORY is saved into the relevant memory number when the key is pressed for longer than 1 sec. (Long Press)

USB FLASH MP3 PLAYING

PLAY / PAUSE

Press button (10) to pause music track. Press it again to resume playing.

Long press PLAY/PAUSE to return to the start of the song playing.

INT

Press button (11) to switch on INTRO function: During INTRO ON, INT indicator comes on and begins playing the first 10sec of each song, until the last song is played.



SPHERE

On completion, it begins playing the entire track from where INT started.

RPT

Press preset button (12) to switch REPEAT function ON/OFF(ALL).

When REPEAT ON, RPT INDICATOR comes on and repeats the current playing music track.

With REPEAT OFF or ALL, all tracks in the folder will recommence playing once final track is played.

RDM

Press preset button (13). When RANDOM ON, RDM INDICATOR is turned on tracks from the selected device will play at random instead of the normal order.

SELECT TRACKS

During USB operation, short press "SEEK ◀▶" or "SEEK ▶▶" button to move to the previous track or the following track. The track number shows on the display.

During USB operation, press and hold "SEEK ◀▶" or "SEEK ▶▶" button to fast rewind or fast forward. Music play starts from when you release the button.

Press preset button (14-15):

- MP3 MODE : 10 TRACK UP / DOWN is activated.
When the total track is 10 or less, KEY is inactivated.

WIRELESS CONNECTIVITY

PAIRING

Turn on audio unit, put your mobile near the unit and activate your mobile wireless connectivity function. Soon the phone will find the new device "CAR AUDIO". Input the pairing password "8888" and click OK. The phone will prompt the matching successful. When wireless connectivity is ON, the wireless connectivity logo will stop blinking . You are now successfully paired to the head unit. The LCD will show paired to the audio unit via wireless connectivity.

NOTE: Supported Wireless Connectivity systems: "HSP", "HFP", "A2DP" and AVRCP Wireless Connectivity profiles.

HANDSFREE PHONE SERVICE

If your mobile phone is paired with the unit. You can dial out through your mobile phone. It will turn to unit automatically for incoming calls and the incoming phone number will be displayed on the LCD screen.

- Short Press the "BAND" button to accept the call. You can then talk with the other party through the mic on the panel.
- Short press "MUTE" button to reject incoming calls.
- Short press "MUTE" button to hang up.
- Short press "BAND" button to call last dialled number.

INTERRUPT WIRELESS CONNECTIVITY CONNECTION/RECONNECTION

Short press the "BAND" button to interrupt the Wireless Connectivity connection during a call and the sound will return to the mobile speaker.

Press "BAND" button again to reconnect.

NOTE: Different mobile phone have different responses.

We do not guarantee full correct operation of connectable devices.



SPECIFICATIONS

GENERAL

Power Supply Requirements:	DC 14.4V, Negative Ground
Load Impedance:	4 ohms
Maximum Output Power:	25W x4(CH)
Current Drain:	10A
Chassis Dimensions:	178x87x50mm

TONE CONTROLS

Bass (at 100Hz):	+10dB/-10dB
Treble (at 10K):	+10dB/-10dB

USB MUSIC PLAYER

Signal to Noise Ratio:	More than 60dB
Channel Separation:	More than 60dB
Frequency Response:	20Hz-20KHz

FM RADIO

Frequency Coverage (MHz):	87.5 - 108MHz
IF:	10.7MHz
Sensitivity (S/N-20dB):	12dBu
Stereo Separation:	>30dB

AM RADIO

Frequency Coverage (KHz):	522 - 1620KHz
IF :	450KHz
Sensitivity (S/N-20dB):	<42dBu

Note: Specifications may be subject to change without notice.



SPHERE®

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Web: www.coastrv.co.nz

Warranty Against Defects

1 WHAT THIS WARRANTY RELATES TO

1.1 This warranty covers goods supplied by Coast RV Pty Ltd T/A Coast to Coast RV Services ("Supplier") to the Client ("Goods") and relates to any defects in materials and workmanship under normal use and maintenance ("Defect").

2 WHAT THE SUPPLIER WILL DO TO HONOUR THE WARRANTY

2.1 The Supplier will:

- (i) replace or repair the Goods or the defective part of the Goods free of charge;
- (ii) arrange for the Goods or the defective part of the Goods to be repaired or replaced by a qualified repairer free of charge.

2.2 The Supplier reserves the right to replace defective parts of the Goods with parts and components of similar quality, grade or composition where an identical part or component is not available.

2.3 Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

3 WHAT THE CLIENT MUST DO TO CLAIM THE WARRANTY

3.1 To claim the benefit of the warranty, the Client will need to (sequentially):

- (i) first contact the Supplier; and
- (ii) present the defective Goods to the Supplier for inspection, including inspection for defective workmanship, or otherwise provide evidence of the claimed Defect, accompanied by evidence of proof of purchase and date of delivery, and if applicable, evidence of maintenance performed in accordance with the relevant maintenance schedules.

3.2 The claim listed in clause 3.1 may be made in person, or the claim may be sent to the address listed on this form, including the particulars required under clauses 3.1(i) and 3.1(ii).

3.3 The appropriate form for making a claim for warranty is as attached.

4 DURATION OF WARRANTY

4.1 This warranty will cease:

- (i) where the Goods are purchased already fitted in or as a component of a vehicle or RV: from the date that is twelve (12) months after the Client takes delivery of the vehicle or RV; and
- (ii) where the Goods are purchased separately or as an after-market item: from the date that is twelve (12) months from the date of purchase..



4.2 If a Defect does not materialise in the Goods prior to the date provided in clause 4.1, the Supplier will have no liability to the Client under this warranty.

5 RESPONSIBILITY FOR COSTS OF CLAIM UNDER THIS WARRANTY

- 5.1 The Supplier is responsible for the costs directly associated with repairing or replacing the Goods in accordance with clause 2.1 only.
- 5.2 Any works required to be completed in addition to fixing the Defect are the responsibility of the Client. Additional works includes any costs associated with any testing or repair of the Goods or any goods to which they are fitted, undertaken by a third party in relation to any defect without prior authorisation from the Supplier.
- 5.3 Where it is determined that the Goods do not have a Defect, the Client will be charged a GST exclusive inspection fee of forty-five dollars (\$45.00AUD in Australia or \$45.00NZD in New Zealand) plus freight costs for the return of the Goods, this is subject to change without notice.
- 5.4 The cost of delivery and insurance of the Goods to and from the Supplier, travel costs to and from the Supplier, and the cost of inspecting and testing the Goods are the sole responsibility of the Client.

6 WARRANTY LIMITATIONS

- 6.1 The Supplier makes no warranties or representations other than those set out in this warranty document except as is required by law.
- 6.2 The Supplier will not be liable under this warranty:-
- (i) to the Client or any other person for any consequential, direct or indirect loss, damage or costs incurred or suffered by the Client or any other person, including but not limited to damage to persons, other property, loss of turnover, loss of profits, loss of business or goodwill;
 - (ii) to the Client for transportation or travel costs which are the Client's responsibility;
 - (iii) for damage or defects in any Goods caused by improper transportation, storage or any other misuse, neglect or accident.
 - (iv) for the installation of the Goods. Any fault or defect due to installation should be referred to the installer. The Goods must be installed in accordance with the Manufacturer's instructions and any relevant legislation or code.
- 6.3 This warranty covers the Client only and it is not transferrable if the Goods are sold by the Client during the warranty period.

7 WARRANTY EXCLUSIONS

- 7.1 This warranty will not apply where:
- (i) the Goods have been improperly modified or repaired or the Good's defect has arisen due to the Client's failure to properly install, fit, maintain, service or use the Goods in accordance with the specifications and instruction provided by the Manufacturer, including a failure to comply with the relevant maintenance schedule (where applicable);
 - (ii) the Supplier cannot establish any Defect in the Goods after testing;
 - (iii) the Goods have been used other than for the purpose for which they were designed;
 - (iv) the Goods have been subject to abnormal conditions, including but not limited to temperature, pressure, stress, load or similar;



- (v) the Client or installer have used or fitted non-genuine or non-approved parts and accessories to the Goods or have failed to use recommended parts and accessories;
- (vi) the Good's defect has arisen due to abuse, misuse, neglect or accident;
- (vii) the Goods have not been installed in accordance with the relevant instructions;
- (viii) the Good's defect is caused by use or fair wear and tear of the Goods (or expendable parts).

8 RIGHTS AT LAW

- 8.1 The benefits given to the Client under this warranty are in addition to other rights and remedies of the Client at law in relation to the Goods.
- 8.2 In Australia our Goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.



Warranty Claim Form

Warranty Providers Name	Coast RV Pty Ltd trading as Coast to Coast RV Services ABN 49 097 104 492 - ACN 101 461 330
Warranty Providers Address	PO Box 6287, Silverwater NSW 1811 Australia OR; PO Box 58-054 Botany AUCKLAND 2163 New Zealand
Client:	
Contact No.	
Description of Goods provided	
Receipt enclosed: (tick box)	☐ YES ☐ NO
Receipt No:	
Description of defects (Give as much detail as possible. Use a separate page if required)	
Date of purchase/services provided	

I hereby declare that the information provided above is true and correct and to the best of my knowledge and belief and I have complied with all the conditions of the warranty.

Signed:

Name:

Dated:

Please note, the issue or completion of this form by the Client does not constitute an admission of liability by the Supplier.



Coast RV Pty Ltd
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AUSTRALIA

Phone: (02) 9645 7600
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