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NALsa M200S 8core 2+32G

NALsa Android 12 Car Stereo User Manual

For Suzuki Celerio 2014-2018 Models (M200S 8core 2+32G)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your NALsa Android 12 Car Stereo system. This multimedia player is designed to enhance your driving experience with advanced features such as GPS navigation, smartphone integration (CarPlay/Android Auto), and a high-resolution touch screen display. Please read this manual thoroughly before using the product to ensure proper functionality and safety.



Image 1.1: NALsa Android 12 Car Stereo unit with rearview camera.

The image displays the main car stereo unit, a 2-DIN Android 12 system with a large touch screen, designed for Suzuki Celerio models. A rearview camera is also shown, indicating its inclusion with the product.

2. COMPATIBILITY

This car stereo system is specifically designed for the following vehicle models:

- Suzuki Celerio: 2014, 2015, 2016, 2017, 2018

Before installation, it is crucial to confirm the correct shape and style of your vehicle's original center console. If you are uncertain about compatibility, please consult a professional or contact customer support with a picture of your original center console for technical identification.



Image 2.1: NALsa Car Stereo integrated into a Suzuki Celerio dashboard.

This image shows the NALsa car stereo unit seamlessly installed within the dashboard of a Suzuki Celerio, demonstrating its fit and appearance when integrated into the vehicle's interior.

3. PACKAGE CONTENTS

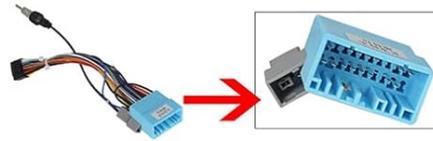
Please verify that all items listed below are included in your package:

- Android Host (Screen Unit)
- Power Cable
- RCA Cable
- Reversing Camera (AHD720P, complimentary)
- USB Cables (2 or 3 depending on model)
- MIC (Microphone)
- GPS Antenna
- 4G Antenna (for M200S-800S models)
- Audio Out (for M200S-800S models)

Package Contents



Machine



Power Cable

(M100 150CP)



RCA Cable



Reversing Camera



USB Cable



MIC



GPS Antenna

(M200-800S)



RCA Cable



Reversing Camera



USB plug*2



USB plug*3



Audio Out



4G Antenna



GPS Antenna



MIC

(M200 400S USB*2) (M300S 500S 600S 800S USB*3)

Image 3.1: Visual representation of package contents.

This diagram illustrates the various components included in the product package, such as the main unit, power cable, RCA cables, reversing camera, USB cables, microphone, and antennas, categorized by model series (M100/150CP and M200-800S).

4. SPECIFICATIONS

The following table outlines the key technical specifications of the NALsa Android 12 Car Stereo (M200S model):

Feature	Specification (M200S)
Operating System	Android 12.0 API29
Configuration	8-core, 2GB RAM, 32GB ROM
Resolution	1280*720 IPS
Internet Connection	4G LTE / 5G WiFi / USB / Hotspot
Screen Type	High-resolution capacitive multi-touch, 2.5D IPS
Bluetooth	Built-in Bluetooth 5.0
GPS	Built-in GPS module, supports online/offline maps
CarPlay / Android Auto	Wired and Wireless support
DSP	Built-in, supports surround sound, bass, treble adjustment
Amplifier IC	TDA7388
Receiver IC	7708
Cooling Fan	Powerful cooling fan at the rear
Voltage	12 Volts
Item Weight	5.5 pounds

Car multimedia player parameter

	 M100CP M150CP	 M200S M400S	 M300S	 M500S	 M600S	 M800S
Model						
Internet						
OS	Android 12	9863 Android 12	7862S Android 12	7862S Android 12	7862S Android 12	7862S Android 12
Core	4-Core	8Core * 1.6Ghz 64 Bit Unisoc UIS8581A (SC9863A) 8*Cortex A55 28NM				
RAM/ROM	M100CP: 1+32GB M150CP: 2+32GB	M200S: 2+32GB M400S: 4+64GB	4G+32G	4G+64G	6G+128G	8G+256G
Car-Play Auto	wireless 	wireless 	wireless 	wireless 	wireless 	wireless 
BT module	5.0	5.0	5.0	5.0	5.0	5.0
Resolution	1024*600	1280*720	1280*720	1280*720	1280*720	1280*720
Screen	IPS Screen	IPS Screen	IPS Screen	IPS Screen	IPS Screen	IPS Screen
Cooling fan	 YES	 YES	 YES	 YES	 YES	 YES
Full AV Output	Optional	Optional	Optional	Optional	Optional	Optional
DSP	Optional					
RDS						

Image 4.1: Detailed parameter comparison for various NALsa models.

This image presents a comprehensive table comparing specifications across different NALsa car multimedia player models, including details on Internet connectivity, OS, core type, RAM/ROM, CarPlay/Android Auto support, Bluetooth module, resolution, screen type, cooling fan, AV output, DSP, and RDS.

Support Cooling fan

The cooling fan can deal with and solve the abnormal operation caused by high temperature in summer and long-term use of the machine, such as restart, abnormal touch, abnormal function, etc....

There is no cooling fan

High temperature

cpu_thermal_zone: 91.0°C
gpu_thermal_zone: 89.0°C

With cooling fan

(M100CP M150CP)

Normal temperature

cpu_thermal_zone: 57.0°C
gpu_thermal_zone: 57.0°C

1280*720 2.5D+ IPS Screen

No Light reflecting under 360° direction sunlight, super fast response, no watermark when touch, larger view angle, QLED screen gets richer color gamut and more realistic.

Resolution
1280*720P

Larger viewing angle

Fuller color

Quantum dots
Crystal layer

IPS Screen

IPS screen changes the arrangement of TFT liquid crystal molecules, so that it has a greater visual Angle, better color reduction, more realistic picture.

TFT Screen

VS

△ Angle
TFT: [bar] IPS: [bar]

△ Sharpness
TFT: [bar] IPS: [bar]

▣ Saturation
TFT: [bar] IPS: [bar]

IPS Screen

Support DSP Processor

(M200S M300S M400S M500S M600S M700S M800S)

Increase DSP digital audio processing module, multi-dimensional surround lossless sound effects, enjoy high-definition audio-visual feast!

7862S DSP

M300S M500S M600S M700S M800S

9863 DSP

M200S M400S

online music and online radio, connected to the original car stereo via fm transmission, without changing the original car audio

Image 4.2: Features of Cooling Fan, IPS Screen, and DSP Processor.

This image highlights key technological features: the effectiveness of the cooling fan in maintaining optimal temperature, the superior viewing angles and color reproduction of the 2.5D IPS screen, and the enhanced audio experience provided by the built-in DSP processor.

5. SETUP AND INSTALLATION

Installation of this Android radio system requires specific skills and expertise in car audio systems. It is highly recommended to seek professional installation from a qualified auto repair store to ensure correct wiring, proper functionality, and to avoid any damage to your vehicle or the unit.

5.1 Wiring Diagram

Refer to the wiring diagrams provided below for connection details. These diagrams illustrate the various ports and their functions on the back of the head unit.

CPU

OCTA CORE, UP TO 2.0GHz, 8+256GB
CPU: Dual Core, 2* ARM Cortex A75 + 6* ARM Cortex A55

Android
12

8GB
RAM

256GB
ROM



BIG CPU

Optimized for high-performance

2* ARM Cortex -A75



LITTLE CPU

Optimized for Low-Power

6* ARM Cortex -A55



Built-in Car-Play + Auto
(M95S M100CP M150CP M200S M300S M400S M500S M600S M700S M800S)

car dvd player comes with carplay function, no need to purchase additional accessories.



Wireless Car-Play (ios system)

Connection steps:

1. Connect BT
2. Click on "Car Link"

and wait for connection
(CarPlay can also be connected via USB Cable)

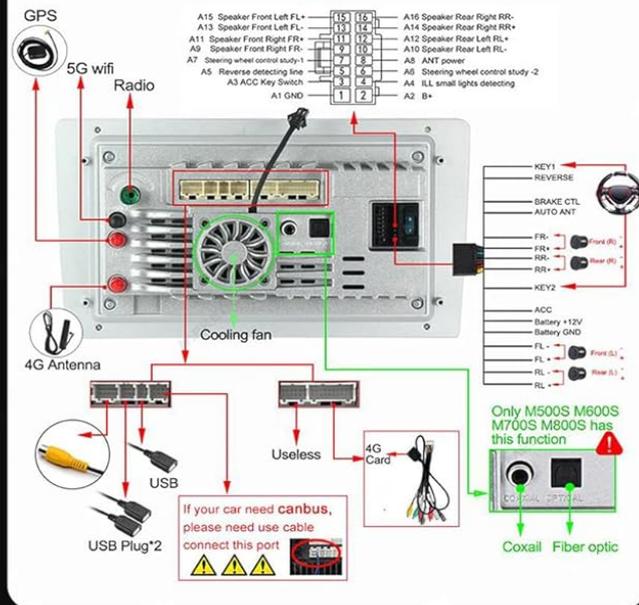
Wireless Auto (Android system)

Connection steps:

1. Connect BT
2. Click on "Car Link"

and wait for connection
(Auto can also be connected via USB Cable)

Back of the host device
(M200S M300S M400S M500S M600S M700S M800S)



GPS

5G wifi

Radio

4G Antenna

Cooling fan

USB

USB Plug*2

Useless

4G Card

Coxial Fiber optic

KEY1 REVERSE

BRAKE CTL AUTO ANT

FR- FR+ Rear (R)

RR- RR+ Rear (L)

KEY2

ACC Battery +12V Battery GND

FL- FL+ Front (L)

RL- RL+ Rear (L)

A15 Speaker Front Left FL+

A13 Speaker Front Left FL-

A11 Speaker Front Right FR+

A9 Speaker Front Right FR-

A7 Steering wheel control study-1

A5 Reverse detecting line

A3 ACC Key Switch

A1 GND

A16 Speaker Rear Right RR+

A14 Speaker Rear Right RR-

A12 Speaker Rear Left RL+

A10 Speaker Rear Left RL-

A8 ANT power

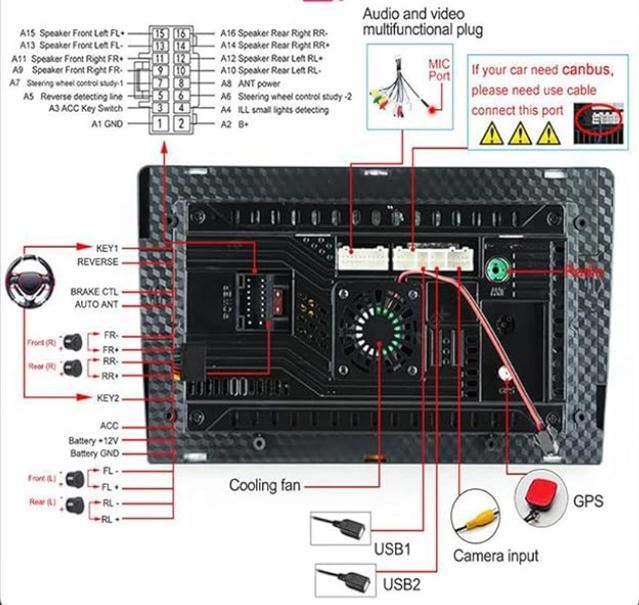
A6 Steering wheel control study-2

A4 ILL small lights detecting

A2 B+

If your car need canbus, please need use cable connect this port

Back of the host device
(M100CP M150CP)



Audio and video multifunctional plug

MIC Port

If your car need canbus, please need use cable connect this port

KEY1 REVERSE

BRAKE CTL AUTO ANT

FR- FR+ Front (R)

RR- RR+ Rear (R)

KEY2

ACC Battery +12V Battery GND

FL- FL+ Front (L)

RL- RL+ Rear (L)

A15 Speaker Front Left FL+

A13 Speaker Front Left FL-

A11 Speaker Front Right FR+

A9 Speaker Front Right FR-

A7 Steering wheel control study-1

A5 Reverse detecting line

A3 ACC Key Switch

A1 GND

A16 Speaker Rear Right RR+

A14 Speaker Rear Right RR-

A12 Speaker Rear Left RL+

A10 Speaker Rear Left RL-

A8 ANT power

A6 Steering wheel control study-2

A4 ILL small lights detecting

A2 B+

Cooling fan

Camera input

GPS

USB1

USB2

Image 5.1: Wiring diagrams for the back of the host device.

This image displays two wiring diagrams for the rear of the car stereo unit: one for M200S-800S models and another for M100CP/M150CP models. These diagrams detail the various input/output ports, including GPS, 5G WiFi, Radio, 4G Antenna, USB, RCA, and specific connections for features like CANbus, cooling fan, and optical/coaxial output.

5.2 Initial Setup

After professional installation, the unit will power on with your vehicle's ignition. Follow the on-screen prompts for initial setup, including language selection, time zone, and network configuration. Connect to a Wi-Fi network or insert a 4G SIM card (for M200S-800S models) to enable online features.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

- **Power On/Off:** The unit powers on and off with the vehicle's ignition.
- **Touch Screen:** Navigate the interface using the high-resolution capacitive multi-touch screen.
- **Volume Control:** Adjust volume using the on-screen controls or steering wheel controls (if configured).

6.2 GPS Navigation

The built-in GPS module supports both online and offline navigation maps. Ensure the GPS antenna is properly connected for optimal signal reception.

- Access the navigation application from the main menu.
- Download offline maps for areas with limited network coverage.
- The system supports GPS, BDS, and GLONASS satellite systems for accurate positioning.

Steering Wheel Control

Take control of the music or use hands-free calling function for safety to and concentrate on the road ahead. This head units steering wheel control (SWC) works with a digital SWC.

If the original car does not have steering wheel buttons, you can buy our BT steering wheel buttons.

GPS NAVIGATION

Built-in global positioning system, omni-directional map display, synchronous display real-time traffic conditions, rapid and accurate positioning

GPS BDS GLONASS

Support 5GHz WIFI (802.11 b/g/n)

5GHz

4G SIM card slot

The machine includes two SIM card slots, one on the back of the main unit and one on the RCA cable. (Supports M200S-M800S systems only)

External SIM card slot

Only M200S M300S M400S M500S M600S M700S M800S supports

- ①. Fast transmission
- ②. Low latency
- ③. Wide coverage
- ④. More stable

Image 6.1: Features including GPS Navigation and Steering Wheel Control.

This image illustrates the GPS navigation interface with real-time traffic display, the functionality of steering wheel controls for safe operation, the support for 5GHz WiFi for stable internet connection, and details regarding the 4G SIM card slot for M200S-800S systems.

6.3 Smartphone Integration (CarPlay & Android Auto)

The unit features built-in Bluetooth 5.0 for hands-free calling and audio streaming.

- Go to the Bluetooth settings on the unit.
- Enable Bluetooth on your mobile device and search for the car stereo.
- Pair the devices. You can now make/receive calls and play music wirelessly.

6.5 Multimedia Playback

The system supports various digital media formats including MP3, MP4, MP5, WMA, and JPEG.

- **USB Playback:** Connect USB drives to the available USB ports for music and video playback.
- **Radio:** Tune into FM radio stations. RDS is supported.
- **DSP:** Utilize the built-in DSP (Digital Sound Processor) to adjust surround sound, bass, and treble for an optimized audio experience.

6.6 Steering Wheel Control (SWC)

The unit supports steering wheel control (SWC), allowing you to manage audio and calls without taking your hands off the wheel. This feature requires proper wiring during installation.

- If your original car does not have steering wheel buttons, external BT steering wheel controls can be purchased.
- Configure SWC settings in the system menu to map functions to your vehicle's buttons.

6.7 Rearview Camera Input

The system automatically displays the rearview camera feed when the vehicle is in reverse gear. The included AHD720P reversing camera provides clear visibility.

6.8 Split Screen Functionality

The picture-in-picture split screen feature allows you to run two applications simultaneously, such as navigation and music playback.

- Long-press the recent apps button or drag an app to one side of the screen to activate split screen mode.

7. MAINTENANCE

- **Screen Cleaning:** Use a soft, lint-free cloth to clean the touch screen. Do not use abrasive cleaners or solvents.
- **Software Updates:** Periodically check for system software updates to ensure optimal performance and access to new features. Updates can typically be performed via Wi-Fi.
- **Temperature:** Avoid exposing the unit to extreme temperatures. The built-in cooling fan helps manage internal temperatures during operation.
- **Ventilation:** Ensure the cooling fan vents are not obstructed to prevent overheating.

8. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, please contact customer support.

Problem	Possible Cause / Solution
Unit does not power on.	Check power connections and vehicle's fuse box. Ensure proper installation.
No sound from speakers.	Verify speaker wiring connections. Check volume levels and mute settings. Ensure correct audio source is selected.
GPS signal is weak or inaccurate.	Ensure GPS antenna is properly installed and has a clear view of the sky. Avoid obstructions.

Problem	Possible Cause / Solution
Bluetooth connection issues.	Ensure Bluetooth is enabled on both devices. Delete previous pairings and re-pair. Move devices closer.
CarPlay/Android Auto not connecting.	For wired connection, try a different USB cable. For wireless, ensure Wi-Fi and Bluetooth are on. Check phone settings for CarPlay/Android Auto permissions.
Touch screen unresponsive.	Restart the unit (turn vehicle ignition off and on). If persistent, contact support.
Unit overheating.	Ensure cooling fan vents are not blocked. Reduce prolonged high-load usage in extreme heat.

9. WARRANTY AND SUPPORT

NALsa provides professional pre and post-sales service for its products. If you encounter any issues or have questions regarding your Android car stereo, please do not hesitate to contact our customer service team.

- **Technical Support:** Online technical service and professional installation technical support are available.
- **Contact:** You can reach us via chat or Amazon mail. When contacting support, please provide your product model, year of manufacture, and a photo of your dashboard center console if the query is about compatibility or installation.