

# ROCKVILLE



## AN7

7" IN-DASH DOUBLE DIN TOUCHSCREEN ANDROID  
RECEIVER WITH SMART PHONE MIRRORING,  
BLUETOOTH, AND GPS



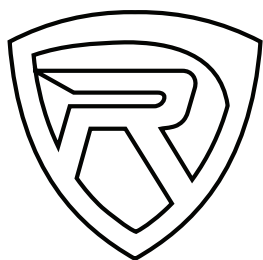
## OWNER'S MANUAL

Rockwell

Thank you for purchasing the Rockville AN7 In-Dash Double Din Android Touchscreen Multimedia Entertainment System.

We have spared no expense in manufacturing these Android head units to meet the highest quality standards. With proper care and installation these units will provide you with the highest levels of quality. We hope that these units will bring you years of performance and reliability.

Please read this installation guide carefully for proper use of your Rockville AN7 In-Dash Double Din Android Touchscreen Multimedia Entertainment System. Should you need technical assistance please call our technical help line at 1-646-758-0144, Monday through Friday, 9am to 5pm EST.



***ROCKVILLE***

# FEATURES

- 7" Advanced Touch Screen Functions Just Like a Smart phone
- Android 5.1 Operating System
- Quad Core Processor for Quick Load Time
- Smart phone Mirroring Function with 2 Way Control
- Built-In GPS (North America Map pack Included)
- 1024 x 600 Screen Resolution
- Selectable backgrounds and skins with upload capability via USB and digital picture screen photo gallery.
- 16:9 (Wide Screen) or 4:3 (Letterbox) Switchable Aspect Ratio
- Bluetooth Capability for Hands Free with Phone book and A2DP Music Streaming
- iPhone and Android Mirroring Function
- Built-in WiFi
- You can download any android app to the receiver
- You can use your cell phone hotspot function to get WiFi on the receiver
- High Power Output: 4 x 50W Peak and 4 x 22w RMS
- 3 Sets of 5V Preamp Outputs (Front, Rear, and Sub)
- Picture Control: Brightness / Contrast / Chroma / Hue / Definition
- PAL / NTSC Compatible
- Front Micro SD Card Reader
- Rear USB Media Input (MP3, MPEG4, WMA)
- Repeat / Program / Random / Intro Play on MP3 Play
- FM / AM / RDS Receiver with 30 Preset Stations
- Auto Memory Store / Preset Scan
- 10 Band Equalizer with 6 presets Classic/Rock/POP/Lite/Dance/ Soft as well as 1 Programmable custom preset (You can also download an EQ from the app store)
- Treble/bass/Subwoofer/fader/Balance
- 2 Channel Rear Audio / Video Output
- AUX Input (1 Channel Video Input and 2 Channel Audio Input)
- Rear View Camera Input
- Factory Steering Wheel Control Compatible (no accessories required; steering wheel control interface is built in)
- Quad Core 1.6GHz by MTK8227 Cortex A9
- Built-in 1GB DDR3, 16G Flash Memory

# PANEL OPERATION



1. Microphone
- 2 Power ON-Off/Mute
- 3 Home button
4. Volume +/-
5. Reset button
6. SD card slot
7. Touch screen

# GRAPHIC USER INTERFACE

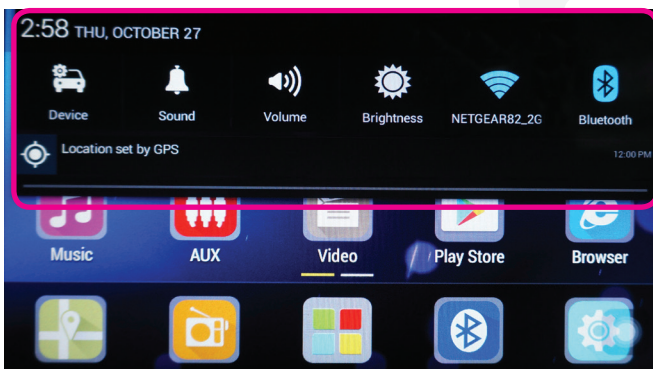


- |                     |                    |
|---------------------|--------------------|
| 1. Home button      | 7. Swap apps       |
| 2. Date & Time      | 8. Turn-off screen |
| 3. GPS status       | 9. Music player    |
| 4. Bluetooth status | 10. Apps           |
| 5. WiFi status      | 11. Quick menu     |
| 6. Time             | 12. Dock           |

## Screen Functions

Swiping down on the status bar will bring up a drop down menu (fig. 1). Here you can quickly access device, sound, volume, brightness, WiFi, and Bluetooth settings. To leave the drop down menu swipe upwards or press the home button.

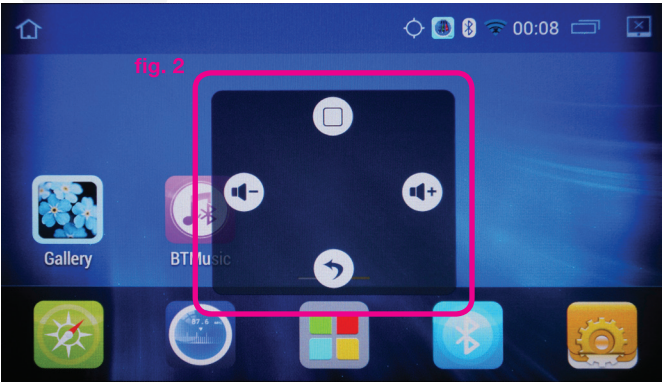
fig. 1



To access additional screens, swipe left or right. To rearrange or move apps, press and hold desired icon. Icons may be moved to other pages or placed in the dock for easy access on any screen. To delete an app, press and hold, then drag to the X that appears in the center of the screen.

Press the date and time widget to access Date & Time settings. Press the weather widget to access four day future weather forecast.

Press the Quick Menu button (No.11 on the GUI diagram) in any screen to access shortcuts to the Home screen, volume settings, and previous screen (fig. 2).



## SETTINGS

To access the device settings screen you can press the status bar, swipe down and press the device icon (fig. 3) or press the system settings icon (fig. 4).



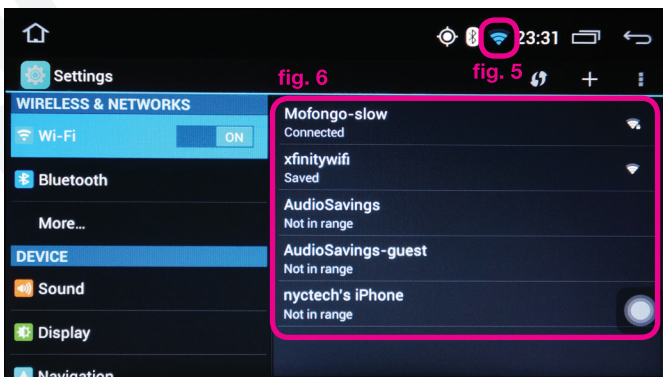
## WiFi

Swipe down on the status bar and touch the WiFi icon. Make sure the WiFi option is on. On the right hand side you will see all available WiFi networks (fig. 5). Select the desired network and follow on-screen prompts to connect. Once connected, network



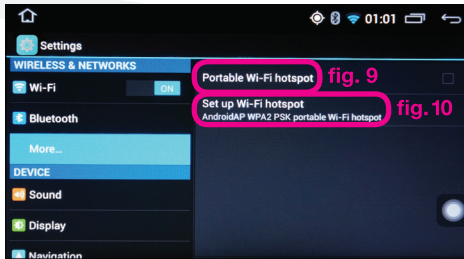
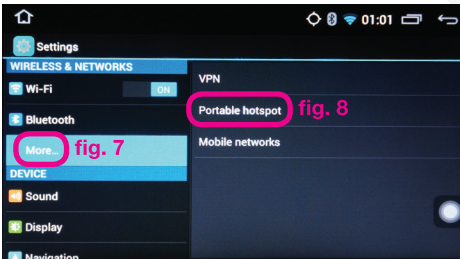
# SETTINGS

will be stored and the unit will automatically attempt to connect if disconnected. Upon successful connection, the status bar will display the WiFi icon (fig. 6).



## Portable Hotspot

The AN7 is capable of broadcasting a WiFi signal. In the settings menu, under Wireless & Networks, press More (fig. 7). Press Portable hotspot (fig. 8) and then Portable Wi-Fi hotspot (fig. 9) to activate. To change hotspot settings press Set up Wi-Fi hotspot (fig. 10). Here you can set the network name, security, and password. To access the hotspot from your wireless device, go to the WiFi settings on your device. In the list of available networks select AndroidAP or your network name if a custom one is set.



## 3G

The AN7 supports 3G internet. In order to activate this feature you must have a participating data plan, a USB WCDMA 3G dongle (not included), and a WCDMA SIM card (not included). Contact Rockville for more information.

## Bluetooth

Press Bluetooth in the settings menu (fig. 11) or the Bluetooth icon in the drop down menu to access BT settings. The default unit BT name is ANDROID BT and can be customized to anything you like.

### Pairing

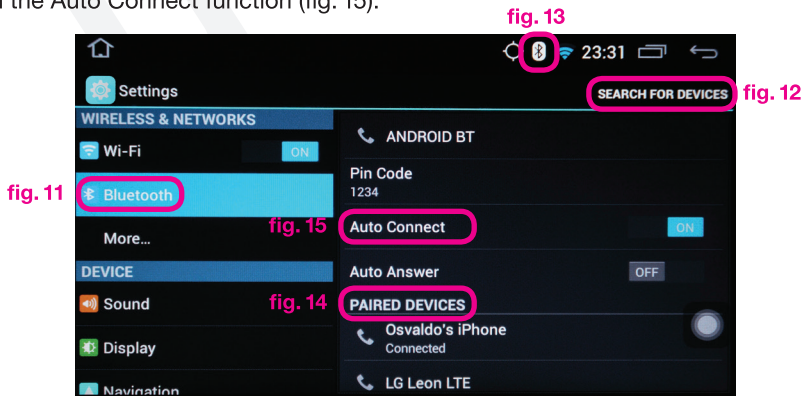
Search for available devices by pressing SEARCH FOR DEVICES (fig. 12). To initiate pairing sequence, make sure your BT enabled device is discoverable. In the list of available devices look for ANDROID BT and select it. Once paired with the AN7, the BT icon on the



# SETTINGS

unit will be highlighted (fig. 13) and unit BT functions will be available. If a PIN code is required, the default is 1234. To change the PIN number, press Pin Code and enter desired four digit number combination. Alternately you may select desired device from the AN7's list of available devices. The unit will send a pairing request to your device. Accept the request and a connection will be established.

Currently paired and previously paired devices will be displayed in the Paired Devices section (fig. 14). If you wish for the AN7 to automatically connect to the last paired device, turn on the Auto Connect function (fig. 15).



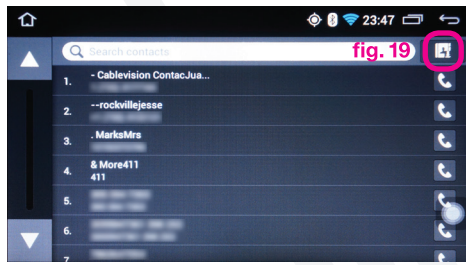
## Making Calls



To make phone calls, press the Bluetooth icon on the home screen. Calls can be made in any number of ways. Use the keypad to dial desired number (fig. 16), choose a number from your contacts (fig. 17), or choose from the list of incoming/outgoing calls (fig. 18).

Press the contacts (fig. 17) icon to access address book. To download address book, press the address book icon (fig. 19).

Press the call log icon (fig. 18) to see your missed calls, received calls, and previously dialed numbers.



## Music



Press the BT Music app to access BT music player (fig. 20). The player displays album art, track name, album, and artist (fig. 21). This information is displayed only if available. Use the on-screen controls to play/pause current track, go to previous track, or skip to next track (fig. 22). Equalizer can be accessed by pressing the EQ icon (fig. 23). Music playback can also be controlled from your phone. It is recommended that you do not attempt to do this while driving.

# SETTINGS

fig. 20



## Sound

Under Device, press the Sound (fig. 24, 25) to access system sound controls. Among other things you can access your equalizer and balance controls. To select one of the six EQ presets or create a custom setting (fig. 26) press sound equalizer. To set the balance, choose Sound balance (fig. 27). You can use the directional pad or simply move the blue cursor to the desired location.

fig. 24

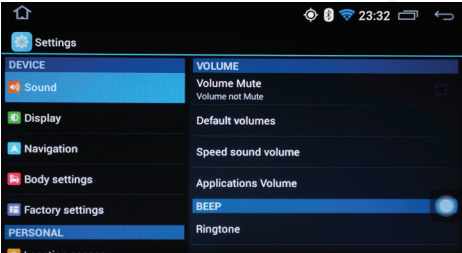


fig. 25

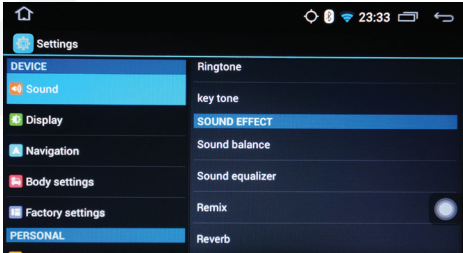
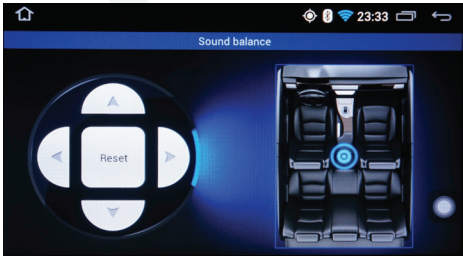


fig. 26



fig. 27



## Display

Allows access to display brightness adjustment menu (fig. 28).

## Navigation

Access unit navigation settings here (fig. 29). You can set your preferred navigation app as well as set the Navi Data Path if uploading or using maps other than the pre-loaded ones. You can also adjust the ratio of GPS talk over sound to main sound.

# SETTINGS

fig. 28

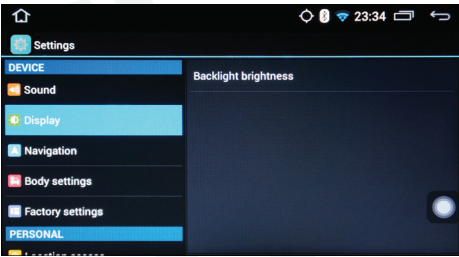
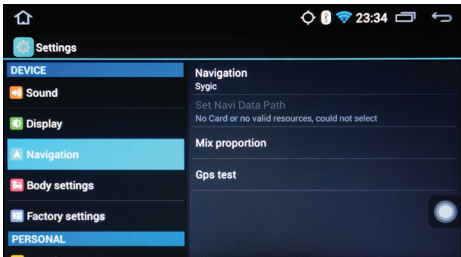


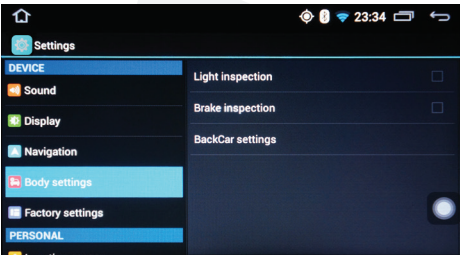
fig. 29



## Body Settings (fig. 30)

Select Light Inspection and the unit will adjust screen brightness automatically based on whether your lights are on or off. Please note you must have the ILL wire connected in order for this feature to function. The Brake Inspection feature, when selected, will prevent videos from being displayed while the vehicle is in motion. Back Car Settings will allow you to customize back-up screen settings as well as back-up camera settings.

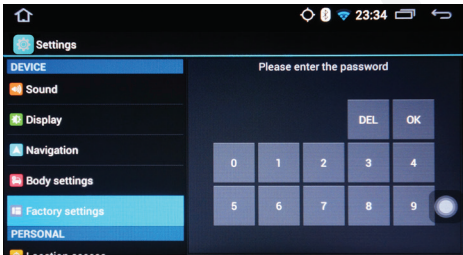
fig. 30



## Factory Settings

To enter factory settings you must enter the password 8317 (fig. 31). Here you can adjust and customize a variety of settings. Please note, Factory Mode password is 8888.

fig. 31

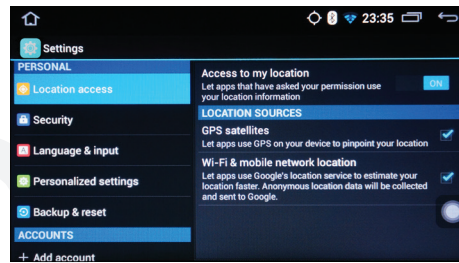


## Personal Settings (fig. 32)

Here you can adjust Location Access, Security settings, Language & Input, and Personalize settings. You can also back-up and reset the unit to factory settings. To change wallpaper, go under Personalized settings and choose Wallpaper settings.

# DEVICE SETTINGS

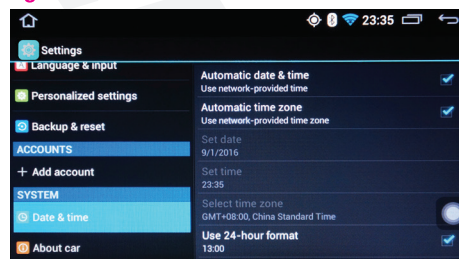
fig. 32



## Accounts/System Settings (fig. 33)

To add a Google account, press + Add Account and follow on screen prompts. To adjust date and time settings, press Date & Time. Please note, once connected to the internet, the unit will automatically set date and time.

fig. 33

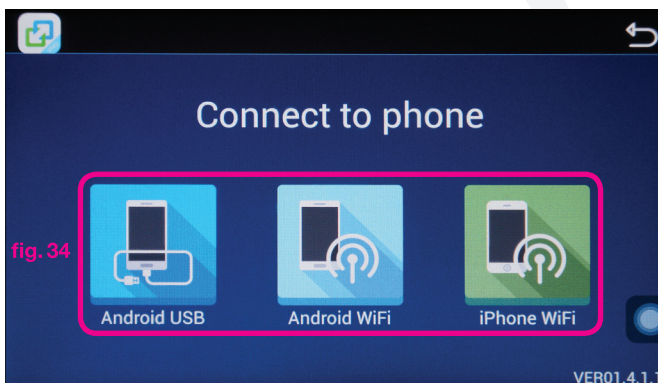


# FUNCTIONS

## Mirroring



To activate mirroring function, press apps icon and find Easy Connected app. On the Connect to Phone screen (fig. 34), select your phone type and desired connection method. Follow on-screen prompts to complete connection process.





# FUNCTIONS

## USB/SD



Attach a USB flash drive to the USB dongle or insert a Micro SD card into the card slot on the front of the unit. To view and manage the files on your USB flash drive or Micro SD card, find and launch the File Manager app. Select the desired source by pressing its icon (fig. 38). On screen you will see a suitcase icon(s) (fig. 39) which house the contents of your USB or Micro SD card. You can press the desired suitcase to see its contents or you can search for a specific file (fig. 40). Press and hold any folder or file and you'll see a menu for copying, moving, and deleting files (fig. 41).

The hard drive icon on the right will give you access to the unit's internal memory. Here you will find pre-installed Android system files. Please do not delete or edit files as this may adversely affect the operating system.

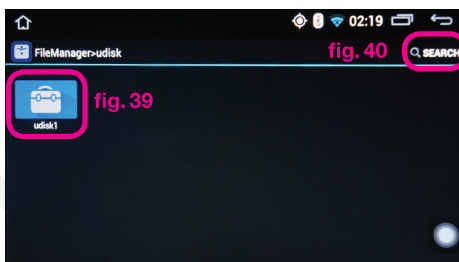
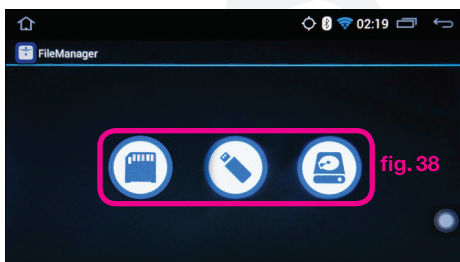
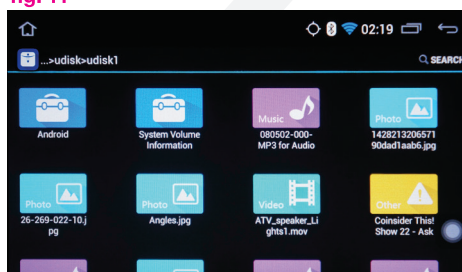


fig. 41



## Music



Launch the music app and select the USB or SD icon (fig. 42). Any music stored in the unit itself would be accessed by selecting the hard drive icon. You can view your music files by songs, albums, or artist (fig. 43). Touch the file you wish to listen to and the music playback screen will appear. The player displays album art, track name, album, and artist (fig. 44). This information is displayed only if available. The playback slider displays track time and allows one to skip forwards or backwards through the selected track (fig. 45). Use the on-screen controls to play/pause current track, got to previous track, or skip to next track (fig. 46). Equalizer can be accessed by pressing the EQ icon (fig. 47). Repeat settings can be accessed by pressing the repeat icon (fig. 48).

# FUNCTIONS

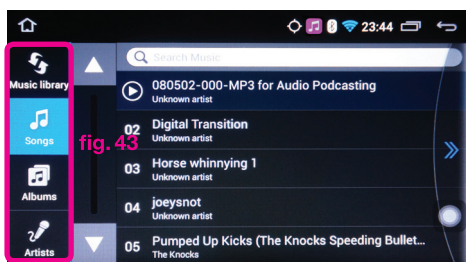
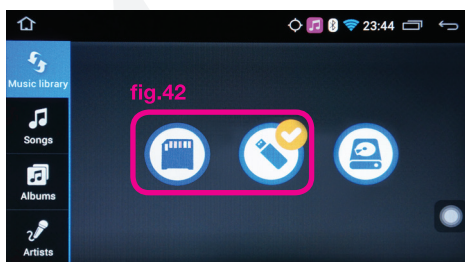


fig. 45

fig. 47

fig. 46

fig. 48

## Video



Launch the video app and select the USB or SD icon (fig. 49) (Any music stored in the unit itself would be accessed by selecting the hard drive icon). Available video files will be displayed to the right of the source icons. Touch the file you wish to view to and the video playback screen will appear (fig. 50). The playback slider displays video time and allows one to skip forwards or backwards through the selected video (fig. 51). Use the on-screen controls to play/pause current video, got to previous video, or skip to next video (fig. 52). Equalizer can be accessed by pressing the EQ icon (fig. 53). To achieve full screen viewing, press the icon on the bottom right (fig. 54). Press again to return to normal screen size.

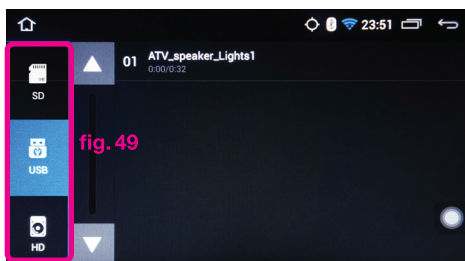


fig. 50

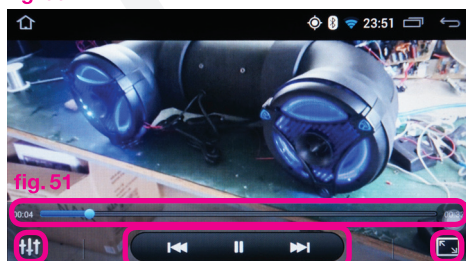


fig. 53

fig. 52

fig. 54

## Gallery



Launch the Gallery app. Any available photo folders will show up as a snapshot icon (fig. 55). Touch the word Album and a drop down menu will appear. Here you will have the option of selecting how images will be organized (fig. 56). Select the desired image folder/file to view it. If selecting a folder, once in the folder, select the desired image. The image viewing screen will appear (fig. 57). Touch the 3 small horizontal blocks at the top right of the image screen to access the view options menu (fig. 58) .

# FUNCTIONS

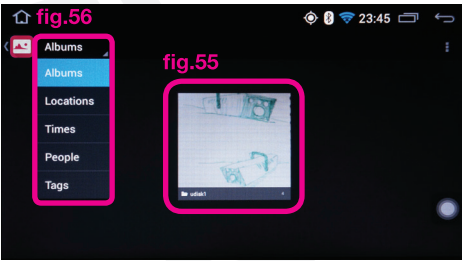
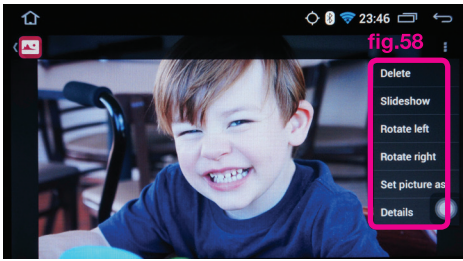


fig.57



## Radio

Launch the radio app to access radio function and settings. Quickly press the frequency icon in the lower left hand corner (fig. 58) to switch between FM1, FM2, and FM3. Press and hold to switch to AM. While in AM mode, quickly press to switch between AM1 and AM2. Press and hold to switch back to FM. There are several ways to search through or locate desired stations. Press the Back/Forward scan icons (fig. 59) to move through frequencies in single increments. Press and hold either icon to search up or down. Press either one of the arrow icons (fig. 60) to the left or right of the frequency read out to move through frequencies in .05 MHz increments. Alternately you can use the slider (fig. 61) to quickly move through frequencies. You can also touch anywhere along the slider. To access the EQ, press the EQ icon (fig. 62). Press the magnifying glass icon (fig. 63) to activate Intro Play. The unit will play 10 second snippets of each available station. Press and hold to automatically search and save available stations as presets. Pressing the RDS icon will give you access to the Radio Data System settings. The RDS system provides data such as station name, program name, song title, etc. The majority of radio stations transmit this information.



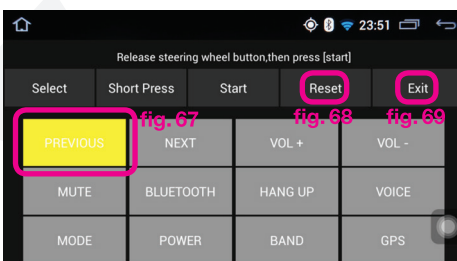
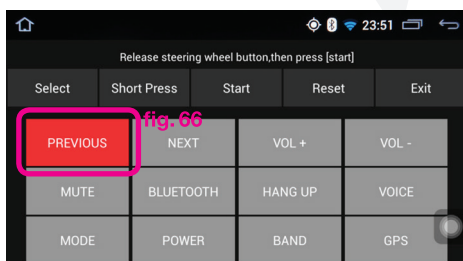
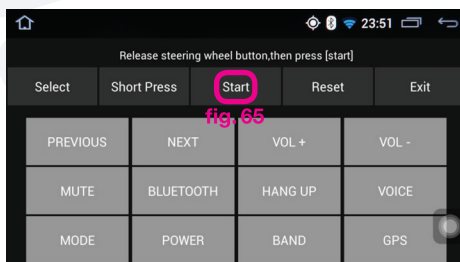


# FUNCTIONS

## Steering Wheel Controls



Launch the Steering Wheel control app to access steering wheel control set-up interface. Make sure that the steering wheel control cables in the wiring harness have been properly connected. To begin programming, press Start (fig. 65). Press the desired function button on screen and it will turn red (fig. 66). Now press and hold the corresponding function on the steering wheel. When the on-screen button turns yellow (fig. 67), the function has been saved. Repeat these steps to program all other functions. Press the Reset button (fig. 68) to clear any previous saved functions. Once you are done, press Exit (fig. 69) to return to home screen.



## GPS



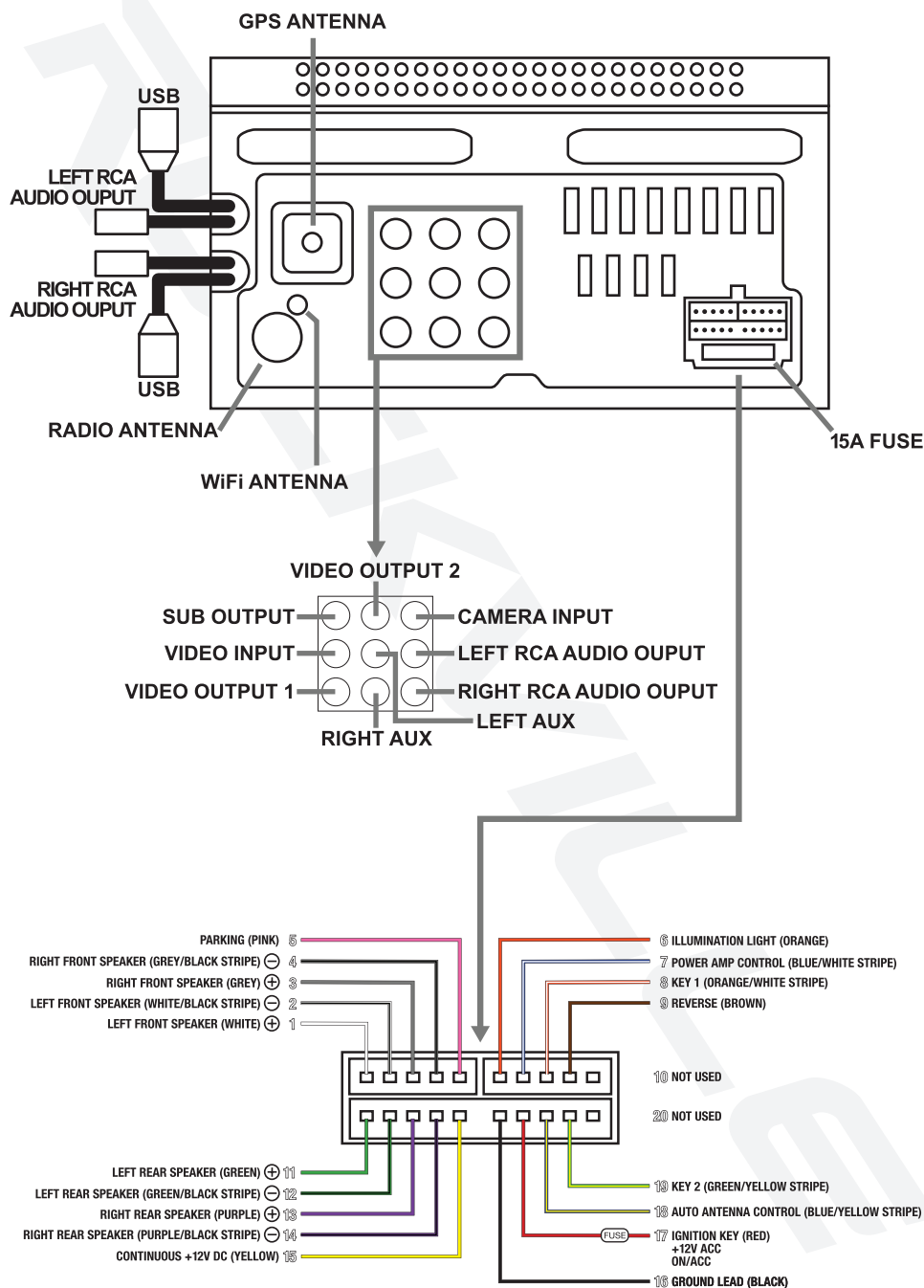
The AN7 comes equipped with a built in GPS navigation system. To access the GPS launch the Sygic app. For detailed operating instructions, please go to the this link:

<http://www.manula.com/manuals/sygic/sygicgpsnavigation-androiduser-guide/en/en/topic/gettin-started>

Alternately you can you can download and install your preferred navigation app from the Google Play store.

For best GPS reception, make sure the GPS antenna is in an open area, preferably near a window.

# WIRING DIAGRAM



# TROUBLESHOOTING

PROBLEM	SOLUTION
NO POWER	<ol style="list-style-type: none"><li>1. Make sure the 20 pin harness is properly connected to the headunit.</li><li>2. Make sure the harness power wires are connected to the correct vehicle wires.</li><li>3. Check fuse.</li><li>4. Turn on car ACC.</li></ol>
SETTINGS ARE NOT SAVED AFTER TURNING OFF THE UNIT	Make sure the red ACC wire and yellow BATT wire are properly connected.
WEAK RADIO SIGNAL	<ol style="list-style-type: none"><li>1. Make sure the radio antenna is properly connected.</li><li>2. Make sure the blue and yellow Auto Antenna wire is connected to the corresponding vehicle wire.</li></ol>
NO SOUND	<ol style="list-style-type: none"><li>1. Check that all speaker wires are correctly connected.</li><li>2. If using an external amplifier, please make sure it is turned on.</li><li>3. Make sure the mute function is turned off.</li></ol>
NO GPS SIGNAL, WEAK GPS SIGNAL	<ol style="list-style-type: none"><li>1. Make sure GPS antenna is properly connected.</li><li>2. Check placement of GPS antenna. If necessary place outside of car. Keep in mind that the GPS signal can be affected by environmental factors.</li></ol>
NO WiFi SIGNAL, WEAK WiFi SIGNAL	<ol style="list-style-type: none"><li>1. Check that the WiFi antenna is properly connected.</li><li>2. Check that your phone's personal hotspot is on and that the headunit is connected to your phone.</li><li>3. If using a 3G dongle, insure that the dongle is properly connected, that the SIM card is properly installed, and that your data plan is active.</li></ol>

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