

APP-TRONICS

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SMARTNAV 5A



Operation Manual

TABLE OF CONTENTS

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|----------------------------------|-------|
| TABLE OF CONTENTS | 1 |
| INTRODUCTION TO YOUR SMARTNAV 5a | 2 |
| DISCLAIMER | 3 |
| SMARTNAV 5A OPTIONAL ACCESSORIES | 4 |
| PARTS OVERVIEW | 5-7 |
| CONNECTION POINTS OVERVIEW | 8-9 |
| INSTALLATION MANUAL | 10-15 |
| BUTTON FUNCTIONS | 16 |
| USER INTERFACE | 17-18 |

INTRODUCTION TO YOUR SMARTNAV 5A FROM APP-TRONICS

The SmartNav 5A is the first truly captive all-in-one rearview mirror offering users GPS navigation with turn-by-turn directions from iGO Primo. The SmartNav5 also features a front viewing DVR with continuous recording, automatic HD reversing camera, Bluetooth 4.0, music player, video player and a photo viewer with upload capabilities from the expansion Micro SD card slot. All These features built into a standard size rearview mirror with a 5 inch captive one-touch screen, easy to use interface and OEM mounting.

SmartNav 5A now comes with a built in Radar Detector and Laser Detector Capabilities. Alerting to X, K, KU, KA and Laser bands, allowing you to receive audible and visual alerts from the mirror.

The all new interface allows the driver quick access to the main features of the SmartNav 5A system. The captive display can be turned off while still receiving audible turn by turn directions from iGO Primo also allowing the driver to hear their selected music or media files and Radar/Laser Detector alerts. The Drive Application can process your incoming calls and your music selection by automatically prioritizing what the driver needs to hear, making sure the driver never misses an important turn from GPS or an important call. The captive display allows the driver to see right through the image to safely see behind them.

App-Tronics motto "Details on their own can mean little, together they mean everything" is how this company was started. Perfecting every aspect of the products' use and performance has always been our goal. When you see the SmartNav 5 for the first time, you will appreciate the dedication the staff at App-Tronics has put into this product. This is what makes the SmartNav 5 the benchmark in applicational rear view mirrors that will never be challenged.

Best,

Julie Lynn
App-Tronics, LLC
Director of Customer Support
And Media Relations

**DISCLAIMER FOR GENERAL AND USE PURPOSE OF
APP-TRONICS PRODUCTS**

Driver acknowledges that the media player is not to be used by the driver when the vehicle is in motion. Driver shall be obligated to notify anyone who takes over operation of the vehicle while the media player is turned on and that it is not to be used by the driver when the vehicle is in motion. Driver acknowledges that he or she has been made aware of this disclaimer before using any of the media players.

THIS IS TO INCLUDE THE MISUSE OF ANY APPLICATION OF OUR PRODUCTS THAT COULD CAUSE DRIVER DISTRICTION OR UNSAFE DRIVING. RADAR AND LASER DETECTORS ARE NOT LEGAL IN ALL STATES AND TERRITORIES, PLEASE CHECK WITH YOUR STATE AND LOCAL LAWS BEFORE USE. BY PURCHASING AND USING OUR PRODUCTS YOU AND YOU ALONE, NOT APP-TRONICS, LLC OR ANY AFFILIATION OF APP-TRONICS, LLC IS RESPONSIBLE FOR USING THE PRODUCT PURCHASED IN A SAFE AND PROPER MANNER THAT IS IN ACCORDANCE WITH STATE AND LOCAL LAWS WHERE OUR PRODUCTS ARE USED.

SMARTNAV 5A OPTIONAL ACCESSORIES

Visit www.App-Tronics.com to purchase any of our optional accessories.

Our Parking sensors can be integrated with the SmartNav 5a. Showing the distance and location to an object, with audible alerts.

Micro SD Card 32GB



Micro SD Card 16GB



MICRO SD CARDS

REAR CAMERAS

MOUNTING BRACKETS

PARKING SENSORS



PS-001 Black



PS-002 White



PS-003 Silver



PS-004 Unpainted

Standard Parking Sensors with audible alerts.



Premium Parking Sensors with visual and audible alerts.

(With rubber housing.)

PPS-001 Black



All trademarks are the property of their respective owners.

Please use the following illustrations for reference during the installation procedure. App-Tronics recommends the use of our Authorized Dealers for installation of the SmartNav 5a. Please contact us to receive a list of available dealers near you. The extended warranty can only be given when installed by an Authorized Dealer.



Fig. 1A
SmartNav 5a Mirror

Fig. 1D, Our universal windshield mount fits most vehicles without any special installation. In rare cases this mount will not work please contact your authorized dealer or App-Tronics for support, we offer a full line of OEM specialty mounts.



Fig. 1D
Universal Windshield
Mount

Fig. 2A , Is the main wiring harness for the SmartNav 5 Mirror. This harness will connect to the mirror and lead to the power source.



Fig. 2A
SmartNav 5a
Wiring Harness

Fig. 2B, Video and power line feed for backup camera. This harness will connect to the main harness and lead to the reversing camera.



Fig. 2B
Camera Wiring Harness



Fig. 2C
Backup Camera



Fig. 2C, Reversing camera

App-Tronics offers several optional cameras please contact your authorized dealer or App-Tronics if you want a specialty camera.

Fig. 2D, App-Tronics parking sensors with audible alerts. This is an optional add on.



Fig. 2D
Standard Parking Sensors



Fig. 2e, App-Tronics premium parking sensors with audible and visual alerts. These parking sensors are designed for metal bumpers. This is an optional add on.



Fig. 2E
Premium Parking Sensors

CONNECTION POINTS OVERVIEW



SmartNav 5 Wire Harness



Green Wire, Reversing signal wire, connected to reverse relay, BCM module.

Blue wire, connected to 12 volt accessory line.

Black wire, connected to a secure grounding point.

Red Wire, constant 12 volt line.

Reversing Light Bulb 12 volt positive wire.

Reversing Light Bulb 12 volt negative wire.

Connection to camera wire.

Reversing signal wire, connected to reverse relay, if reverse relay can not be located connect connect to Green reversing wire.

RCA Camera Connection

Camera Wire Harness



Wiring Diagram Fig. 3A



Reverse Bulb Wiring Diagram Fig. 3B



Fig. 4A

Install mount on back of SmartNav 5a with the provided screws.

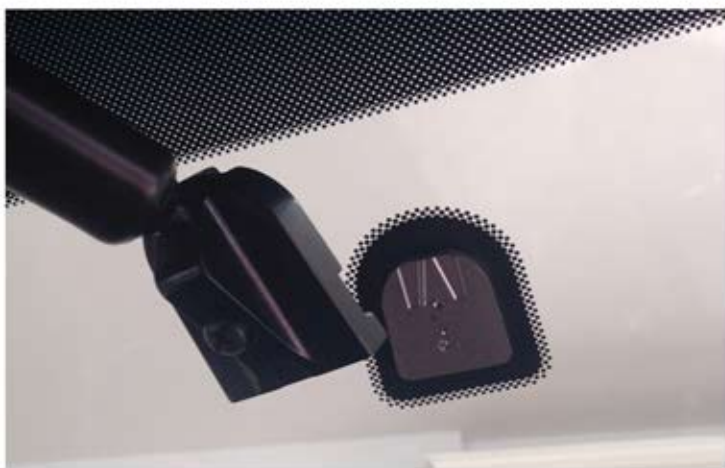


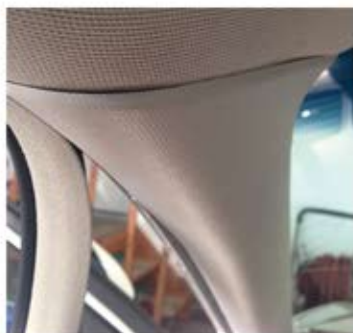
Fig. 4B

Attach the mount according to what mount you are using. If you are using pre-existing anchor and OEM mount, use same process but in reverse of the factory mirror and mount you removed. If using universal mount and new anchor, you need to attach anchor with windshield mount repair kit which can be purchased at any auto parts store (not provided with purchase of SmartNav).

The mount provided fits nearly all vehicles on the road. Please contact App-Tronics for a complete applicational mounting chart for all other vehicles.



Tuck wire from SmartNav 5 into headliner. It only has to go in just a little to stay in place.



Route to which ever pillar A or B will get you to your power source. In this case it was A pillar, the Driver side.



Remove weather stripping and run wire harness behind it. As you come down the pillar, tuck weather stripping back into place pressing firmly. You may need to use a plastic wedge tool to force back behind dash.



Guide your wire harness to your power source, in this case a power harness located under the kick plate. (Pick non critical connections such as interior lights, never modules or fuel pump). Use a volt meter to find your constant power source (**red cable batt+**) which means this connection always has 12 volts running through it even with ignition off. Attach to line.

The **blue wire** in your accessory power source, this line only has power running through it when the ignition is on. Use your volt meter to determine which line to attach. (Again never use critical fuse).

Dealership technicians or professional aftermarket installers can tap into back of fuse box. Note: when you tap directly into wiring check online for proper tap points for vehicle specifics.

Some wiring comes from relays or distribution points and the voltage maybe lessened for its destination. Use volt meter to check volt current to ensure its above 12 volts closet to 13 volts as possible when running. The SmartNav will not run as designed with anything less. Also keep in mind some cars may seem to have a constant power supply. Wait 15 minutes after cars is off and recheck to see if that constant source went to sleep and shutoff. SmartNav 5 uses it for memory. It has internal battery for safety shutdown.



Fuse Panel



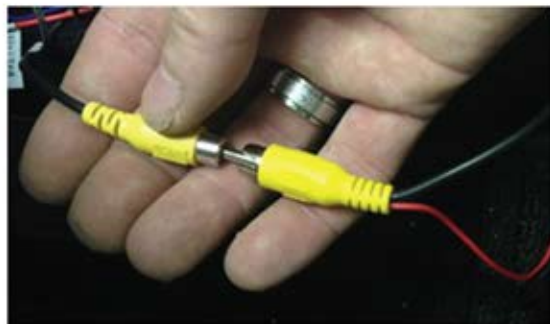
Fuse Tap

In some cases you are unable to find a power harness, locate your interior fuse panel. You can purchase fuse taps from any auto parts store. Connect the constant power wire (**red cable batt+**) to a constant power fuse and the **blue wire** to a accessory power fuse. Please refer to vehicles owner's manual for a listing of fuses.



Next find your ground source, (**black wire**) you may have to extend your black ground wire to find suitable location.

Next attach your rear camera feed (**yellow RCA connectors**). From the wire harness and the rear camera wiring harness. If you have not been able to locate the reversing relay on vehicle you can tie in the Red wire from camera harness to the Green reversing line on main harness.
(continued on next page)

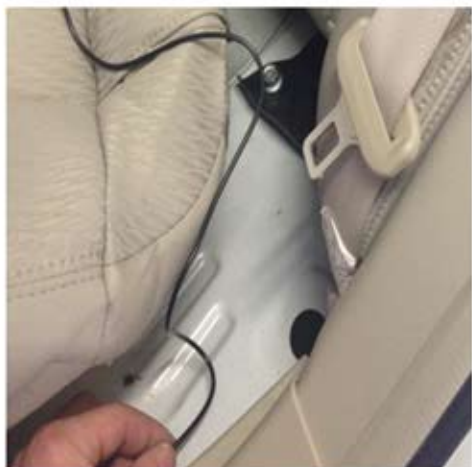


Attach your (green wire back 12+) to the vehicle specific reversing signal or insurance box reversing power fuse relay. This requires professional installation to locate the manufacture location. If you cannot find this location you may tie the (green wire back 12+) power to the red wire coming from rear camera wire feed. App-Tronics highly recommends using the front relay if possible. This connection will power your DVR screen to turn on rear camera when put into reverse same as if you were to tie into the reversing relay. Yet for best response time it's better to install into the reverse signal relay inside the front cab.

Please note some vehicles reversing bulb voltage coming from the front relay is not always sufficient to run a rear camera. As the power is distributed to other bulbs. If you find such an issue tying into the reverse relay upfront with the (green wire back 12+) should eliminate this issue. Or you may use your own relay to find a stronger current, for instants on BMW's. You can attach your own relay and go right to the main battery located in trunk.

There are very few cars that have this issue. Just be sure camera is receiving 12 volts or higher.

Next run the rear camera wire feed to back of vehicle along the floor board trim then under rear seat. Mount your camera in desired location. To do this properly some panels may need to be removed in trunk or lift gate.





Tie in the **red wire** to reverse bulbs power source and the **black wire** to its ground. You can download wire diagrams online to tell you which is which. Or use your volt meter while the cars in accessory position NOT running have a friend put car in reverse, and keep their foot on brake pedal or use parking brake to keep car from rolling. If you locate these same wires in let's say a top of a lift gate you can splice in there. It may make it easier to wire to your desired location of camera.

Please note that some SmartNav 5's can be shipped with a different rear camera. These cameras have a different harness, please refer to the instructions that came with it for proper installation.


If you have any questions email App-Tronics at info@app-tronics.com or call 1-888-587-4111 for further assistance.

If you have purchased the optional Parking Sensors along with your SmartNav 5. You would have received the installation manual with the sensors. Below is a quick layout of the additional wiring needed to help you start the Parking Sensors installation process.


(Refer to manual included with the parking sensors packaging).


SMARTNAV 5A BUTTON FUNCTIONS





 The first button from left: Power button, Simply tap this button once and the screen will turn off but the mirror will continue to function with display off and you will still receive audible Turn-by-Turn directions and radar alerts. Tap the button once more and the screen will become visible again.

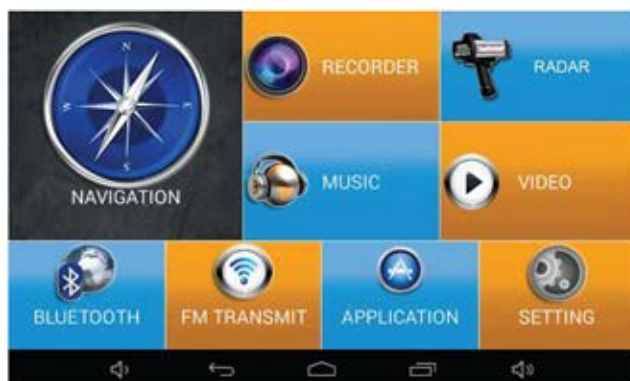
Long Press this button to shut down the system.

 Second button from left : Tap this button to return to the previous screen.

 Third button from left: Tap this button to return to the home screen.

 Fourth button from left: Tap this button to enter the DVR menu.

 Fifth button from left: Tap this button to mute.



This your Home screen, you access all of the main features of the Smartnav 5a from this screen. Simply tap on the screen to select the desired application.



The “Navigation” icon will open up the iGO navigational software. If you want your Radar alerts to come through while using Navigation, you must first open up the “Radar” icon and turn on the system.



The “Recorder” icon opens the front viewing DVR recorder. This system records in Full HD, GPS location, Speed and interior sound. You can adjust the angle on most systems by simply moving the DVR lens with your hand. Located on the passenger backside of the mirror.



The “Radar” icon will bring up the radar system settings. Once activated the radar alerts will appear with a flashing icon and an audible alert.



The "Music" icon will give you access to the pre-loaded music files on the micro SD card. (SD card must be purchased)



The "Video" Player icon will also give you access to any video files that have been added to the above mentioned micro SD card.



The "Bluetooth" icon allows user to pair their smart-phone, as well as receive and take phones calls through the SmartNav 5a.




The FM transmitter will allow the driver to tune the system to the exact same station as the vehicles car radio. This will broadcast any calls, Music, navigation directions directly through the cars speakers. Note: if your vehicles radio is not turned on or tuned that preselected station you will not be able to hear anything from the SmartNav 5a.



The "Application" icon will turn the SmartNav 5a's user interface into android mode. Basically turning the SmartNav 5a into an android based system. Here you can connect to Wi-Fi and enter such apps as Google play. Download applications and change the system to your desired settings.



The " Settings" icon will give the user the ability to change the SmartNav 5a's standard user interface settings, such as volume, brightness, etc.



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