DRONE
M O B I L E

YOUR CAR,
CONNECTED

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INTRODUCTION
Welcome to the DroneMobile DR-3000/31000 installation Guide. Before beginning please read the guide in its entirety to ensure proper installation and compatibility.

DRONE PRECAUTIONS
• Do not use the battery backup port on the CM5 or CM6 Series control modules to power the Drone. It does not provide enough current. Use a power source that can support up to 2 Amps of current draw.

• Drone 3 comes with the Type 2-Data Harness only. If you choose to do a hardwire install you MUST order the Hardwire harness which is sold separately. Part# DR-HRN-3KHW

• A Firstech remote start system MUST be installed to utilize all DroneMobile features.

• Do not install the Drone under metal panels as that will hinder GPS and/or cellular signal.

• Drone 3 utilizes a DIRECTIONAL ANTENNA, be sure to mount the Drone LABEL SIDE DOWN for optimal GPS/cellular signal.

• Prior to powering up the Drone 3, you must FIRST acitvate the device and follow the on-screen instructions. You will be taken step-by-step through activation and will be prompted to power up the unit when the device is activated.

• DR-3100 is **NOT** for use in Alaska or Canada.

DRONE COMPATIBILITY
The following list of Firstech products are Drone compatible utilizing data-to-data connections.

CM 5 Series
CM-5XXX

CM 6 Series
CM-6XXX

CM 7 Series
CM-7XXX

CS 600 AS
CS-600 AS

CS 800 S
CS-800-S

T Harness Series
T-HARNESS

OK RS232
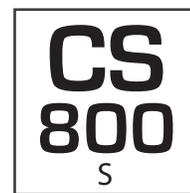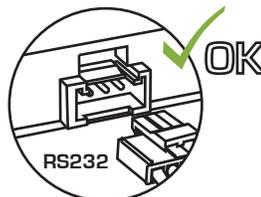
MB DC Series
MERCEDES BENZ

! The product you are about to install is intended for authorized Firstech dealers with the skill and knowledge neccassary to safetly install this device. The manufacturer assumes no responsibility for damages that may occur due to improper insallation of this device. Installation by anyone other than an authorized Firstech dealer may result in all warranties being void.

DEALER ACTIVATION

STEP 1: The Drone's SIM MUST be activated prior to powering on the DR-3XXX. Complete all connections. Leave harness unplugged from DR-3XXX.

STEP 2: If you are a new DroneMobile dealer please visit https://live.dronemobile.com/login to register your account. Click on "New Dealer Registration" and fill out the required information. Your account will be used for any and all future DroneMobile activations so please do not lose the login and password.

STEP 3: Once logged in enter the serial number and click "Submit". "Activating the SIM" window will open.

STEP 4: Once the "Activating the SIM" window closes and the status changes to "Active", you can plug the harness into the DR-3XXX.

STEP 5: Once the unit has achieved cell lock (blue LED flashes slowly), power cycle (unplug) the unit once more. Plug the unit back in and wait for the unit to achieve cell lock then you may proceed to the "Settings" page. Please see the Troubleshooting section for description of LEDs. Complete all necessary tests for the DR- 3XXX.

> Note: If you log out of this session or your session expires, you have until midnight the day of activation to log back in. Once the end user registers their Drone, you will no longer have access to the unit.

STEP 6: Complete the "Hardware Installation," "Controller Settings," and "Alert Notifications" sections. Configure the other settings and click "Save" to save your settings.

STEP 7: Once you are on the "Controls" page, test all of the features including GPS tracking to verify that the unit is fully functional before releasing the vehicle.

STEP 8: Once complete, place the extra DR-3XXX sticker on the Quick Start Card and give to the customer. You may choose to setup their account or advise them to visit dronemobile.com to create their own by clicking "New User Registration." If they already have a Drone account then they should log in and access "Manage Account" > "Add/Remove Vehicle(s)" option.

If you are **not** an authorized DroneMobile dealer and installing the product for the first time visit https://live.dronemobile.com/login and click on "New User Registration." Fill out the required information and then click on "I Agree" to move to the Controller Settings.

INSTALL TYPE 1 - DATA

Follow Type 1 when using Drone with a compatible Firstech Control Module or a DTG (Drone Telematics Gateway) enabled device.

14-Pin Connector

RS232 Port (UART)

4-Pin Connector

Pin #	Wire Color	Pin Name
3	Blue	UART_RxD
4	Black	GND
8	Red	12V
10	White	UART_TxD
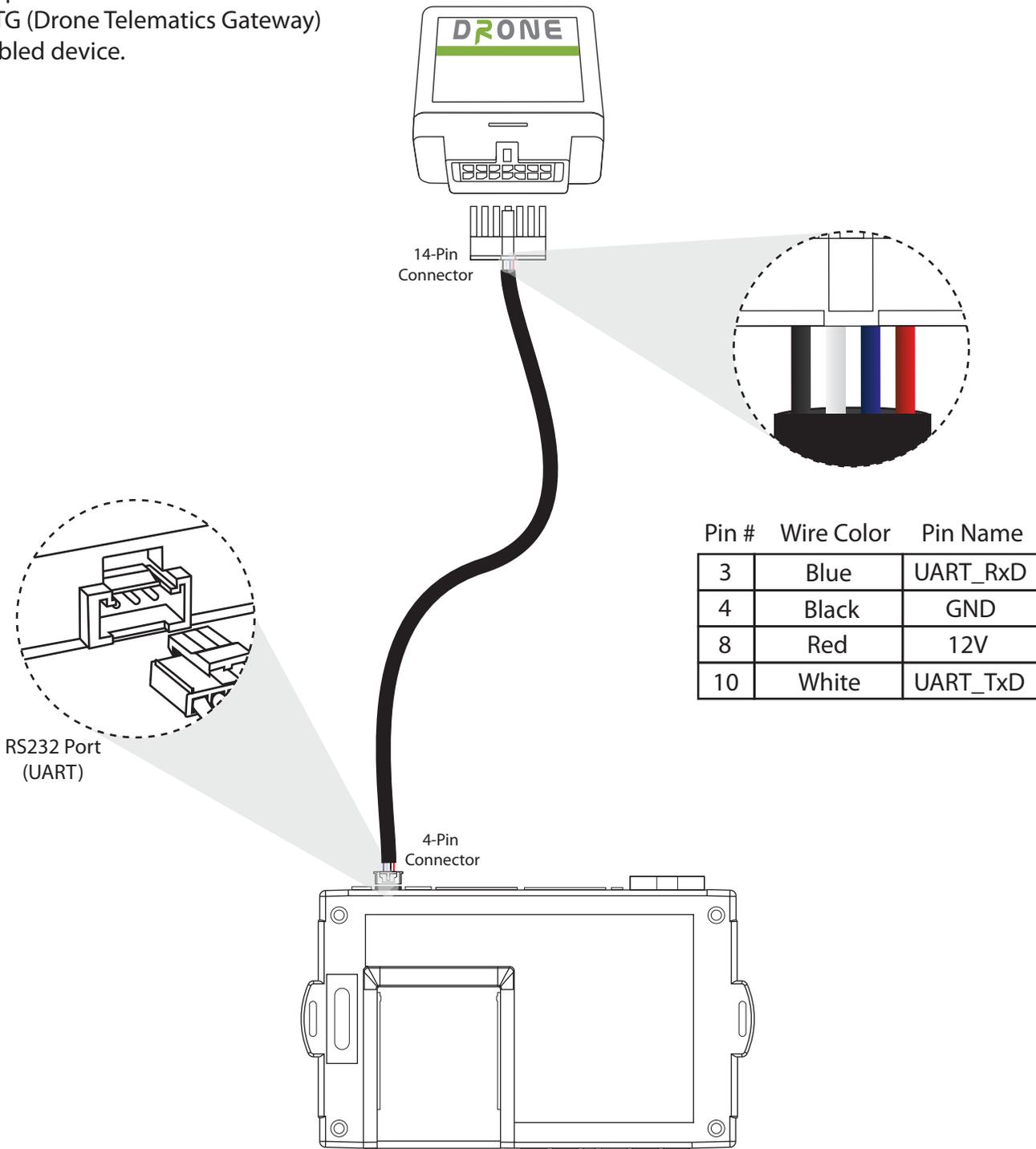
INSTALL TYPE 2 - STANDALONE

Follow Type 2 when using DroneMobile as a Standalone GPS tracking device.

14-Pin Connector

3 Amp Fuse
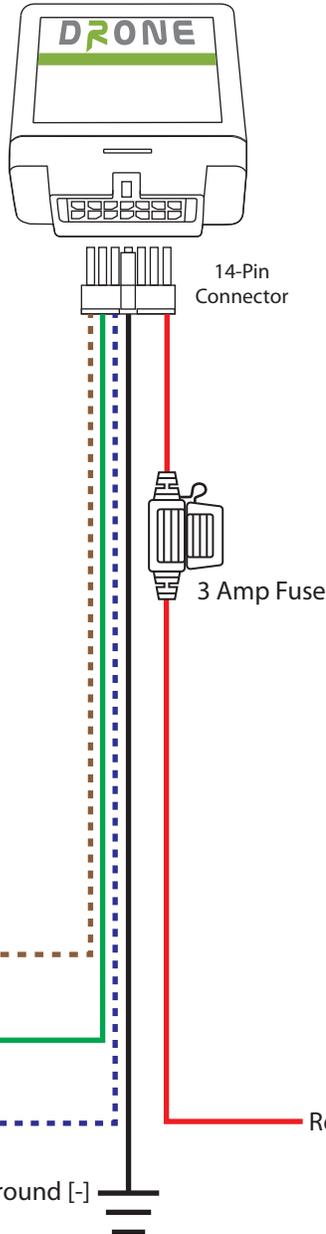
* Please note that triggering the Brown Wire will cause an instant "Alarm Triggered" alert to be sent to the phone every time it is triggered.

Brown - Notification Trigger [+/-] Input

Green - Igniton [+] Input

Blue - Programmable [-] Output

Red - 12V [+]
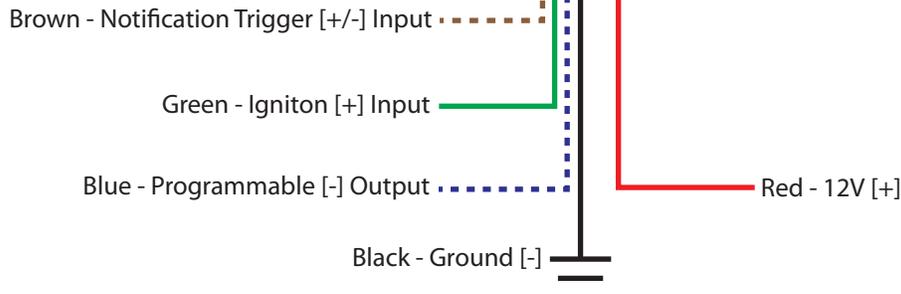
Black - Ground [-]

Required	———————
Optional	- - - - - - - - - - - - -

12V Constant	Red	8
[-] Ground	Black	4
[+] Ignition Input	Green	7
[-] Programmable Output	Blue	6
[+/-] Notification Trigger Input	Brown	14

WIRING DETAILS

The following list details the Drone hardwire harness, part number: DR-HRN-3KHW

Red: (+) 12 Volt Constant Input - This is the constant power for the DR-3000/DR-3100. It carries a 2 amp fuse and must be connected to the vehicle's constant (+) 12 volt source.

Black: (-) Ground Input - Connect this wire to the vehicle's chassis ground.

Green: (+) Ignition Input - Connect this wire to the vehicle's ignition output. This wire should see (+) 12V when the vehicle's key is in the "on " position.

Blue: (-) 250mA Programmable Output - This wire is programmable (on the web only) to be one of the following:

      Starter Enable/Disable (default)- Provides a latched output when triggered.
      Unlock- Provides a half second output.
      Trunk- Provides a half second output.
      Siren- Provides a pulsed output for 30 seconds.

Brown: (-/+) Programmable Trigger Input - When this input is triggered, the Drone will send out an alert message. This wire is programmable (on the web only) to be one of the following:

      [-] Negative input (Low) (Default)
      [+] Positive input (High)
      [-/+] Normally Open (Both)

*Note: Selecting the normally opened option will cause the Drone to send an alert message for both positive and negative. Example: Connecting this wire to a negative door trigger will send an audible alarm alert to the phone every time the door is open (-) and closed (+).

MOUNTING ORIENTATION

These DR-3XXX 's utilizes a directional GPS antenna. This means that the Drone must be mounted with the label side down so that it can achieve the strongest signal possible.
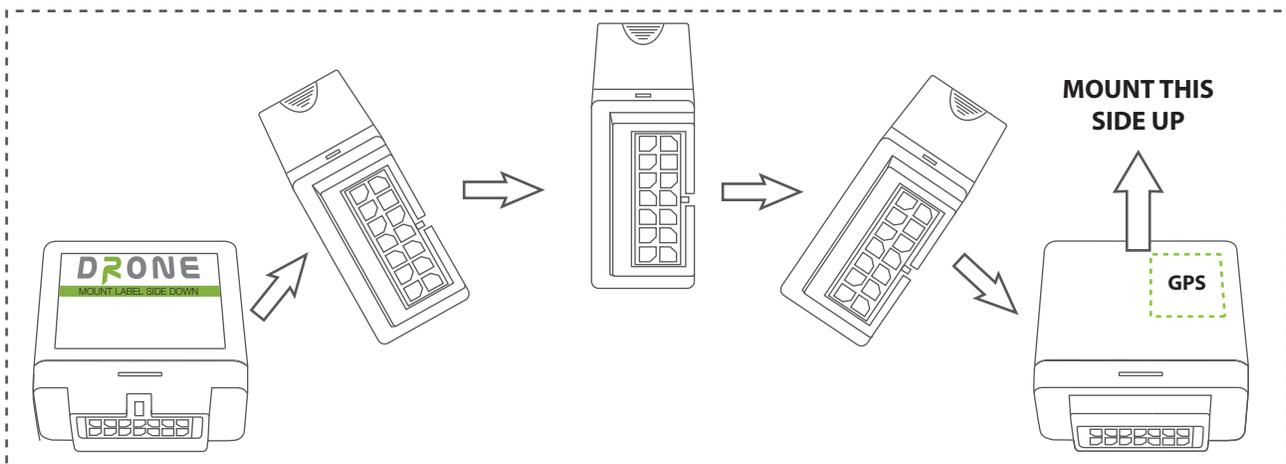
MOUNTING LOCATION

We recommend mounting the DR-3XXX high up in the vehicle's dash when possible. For optimum performance, ensure there are no metal or metalized objects directly above the module.
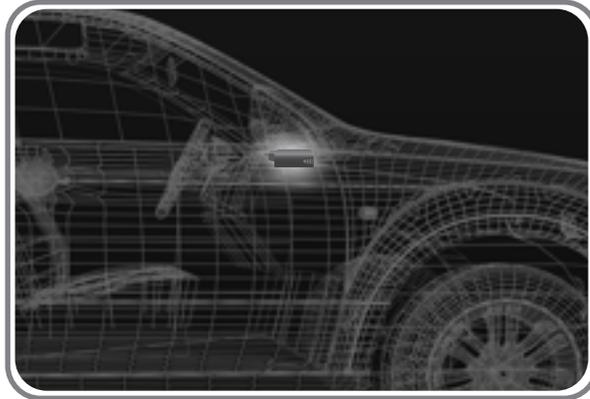
If possible mount the Drone in such a way that the LED's are visible for future troubleshooting. Observe caution when mounting to avoid tension on the harness as it may come loose or damage the unit and/or harness.

LED DIAGNOSTICS

	LED	Description	Status
DR-3100 [CDMA]	Cellular [Blue]	Searching for network	Off
		Registration	Rapid Blinking
		Cell Lock/Home Network	1 blink every 2 seconds
		Solid	Transmitting
	GPS [Green]	Searching For Satellite	Solid
		GPS Lock	Blinking

	LED	Description	Status
DR-3000 [GSM]	Cellular [Blue]	No Service	Rapid blinking
		Searching for network	1 blink every second
		Cell Lock/Home Network	1 blink every 3 seconds
		Cell Lock/Alternate Network	2 blink every 3 seconds
	GPS [Green]	Searching For Satellite	Solid
		GPS Lock	Blinking

Frequently Asked Questions

Q: Why doesn't the car shut down from the Drone app right after I start it using the Drone?

A: The Drone ignores the shutdown command for 60 seconds after starting. This is to prevent bad signals to and from the Drone servers.

Q: Cell phone has data and cellular signal but the Drone still returns "Communication Error."

A: This is due to a breakdown between the DR-3XXX and its cellular network. It has nothing to do with your smartphone's connection.

Q: How do I select the Drone installation type?

A: The Configuration Setting page is where you select the DR-3XXX installation type. The Configuration Settings page can only be accessed at the time of activation/setup.

Q: I don't have the standalone/hardwired harness, can I use the data cable and just use power and ground?

A: No, the Data-to-Data cable included does not have an ignition input, which is required for the GPS to wake up and sleep.

Q: When ever I send commands to the Drone there seems to be noise coming from the car speakers?

A: The cellular/data signal from the Drone can be strong and if placed close enough to a speaker or its wiring, can be picked up by the cars audio system. If this happens try relocating the Drone away from any car audio equipment.

Q: I installed the Drone as a hardwired solution but now I want to connect using data-to-data?

A: The only way to change the configuration is to call in to support to request the change at 888-820-3690.

Q: The activation portal says the Drone is active but I cannot communicate with the Drone?

A: A common missed step during the activation is the 2nd power cycle. Unplug the Drone and plug it back in. Wait three minutes and you should be able to communicate.

Q: Whenever I send commands to the Drone its seems to take at least 10 or more seconds?

A: If the cellular/data signal is weak then some commands will be delayed. Check with the providers coverage map to ensure there is coverage in that area.

Q: Is there some way to see if all my commands are being received?

A: Yes, on the controls page look for the "History Log" button. The History Log will show you all communications sent and received to the Drone with time and date stamps.