



Installation Manual



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Website: www.fleetminder.com.au

Tracking URL: <http://tracking.fleetminder.com.au/fleetfinder>

Installation Manual

***These instructions are to be followed Step by Step, by ONLY a qualified installer**

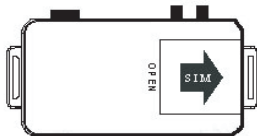
1. Before commencing installation, please insure that all the parts are in the box supplied. If the parts are not there, please do not commence installation, as this will mean revisiting the install more than once.

Parts should include:

- 1 x fleetfinder Gold unit -1
- 1 x GPS / GSM antenna -2
- 1 x fleetfinder GOLD Screen -3
- 1 x Screen interface cable -4
- 1 x Wiring harness -5
- 1 x Screen stand + mount -6
- 1 x Screen charger -7
- 1 x owner's manual -8
- 1 x Help switch -9
- 1 x Diagnostic LED -10
- 1 x Temp sensor cable -11
- 1 x Fuel sensor cable -12
- 1 x RFID scanner -13
- 2 x RFID cards -14
- 1 x Backup battery -15



2. Insert the SIM card in the SIM card slot at the bottom of the unit. Make sure to secure the cover with the provided screw. The SIM card should have gold terminals connected to gold contacts of the unit. If using the Online tracking feature, the SIM card must be GPRS enabled. **(Contact the SIM card provider for details)**



P1



P2



3. Find a suitable location for the Device.
 - For installation and troubleshooting the 3 LED indicators should be visible.
 - Keeping in mind that the unit should be located as far away from other electronic devices as possible. Eg. Radio, ECU...
Please note: If the unit is close to the radio, it may get GSM signal feedback through the stereo system.
 - The wiring has to be close to a power supply, otherwise the wires may need to be extended.
 - Suggested installation locations include; under the dash, but away from the stereo or the ECU, or in the Boot away from speakers or any other electronic equipment.
 - Please ensure that the unit is kept away from a moist and dusty environment.
4. Fit the GPS/GSM antenna in a suitable location
 - Keeping in mind that the Antenna needs a clear view of the sky, and can't be obstructed by metal.
 - A good location is far under the dash next to heater vents, or on the rear parcel shelf (for stealth, hide the GPS antenna).
 - Make sure that the cable does not get crimped during installation.
 - Make sure there is enough cable length to reach the unit.
 - Connect the purple connector from the GPS antenna to the purple connector on the unit, making sure it is secured.
5. Connect the GSM antenna to the unit. The blue connector on the unit is reserved for the GSM antenna.
6. Install a suitable place for the Panic switch. In most cases the switch is located on the kick panel. Please ensure the location will avoid accidental triggering.
7. Run the Black wire to a good ground location.
 - Usually the car body is an earth, so a good metal bracket is suitable. Test the earth is solid using a Multimeter.
 - Make sure it does not change state when the IGN is turned on, or when the lights are turned on. *(Some vehicles change state from ground to +12V on some wires when the lights are turned on)*

8. Run the **YELLOW wire** to an IGN trigger, if online tracking is required.
- If online tracking is required, Input 1 is reserved for IGN trigger.
 - Run the YELLOW wire to an IGN trigger which has to be 12V+ or 24V+. (Can be found on the ignition switch.)

Note: Use IGN wire that does not drop from 12V+ under crank condition.

9. Connect **other Inputs and Outputs** to their desired triggers before connecting the Red wire to 12V+ or 24V+ (Please refer to the wiring diagram for further wiring colours.)

- **The outputs are all Negative Triggers (GND) and are rated to 300mA max.**
- In most cases relays will have to be used for the Outputs.
- Suggested Outputs are Door Unlock, Flash Lights, Disable Starter Motor.
- **Input 1 and 3 are both Positive trigger (12V+ or 24V+), and Input 2 is Negative (GND) trigger.**
- Suggested inputs are Input 1 = IGN, Input 2 = ALARM, Input 3 = Park Lights.

Using the Screen connection loom, connect the red plug to the RED port on the fleetfinder GOLD device (picture). Then Attach the silver mini USB port to the port on the screen (picture) making sure it is secured, and will not get disconnected.

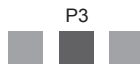
10. Connect the **RED wire** to 12V+ or 24V+
11. Connect the Wiring harness to the device to turn the fleetfinder GOLD ON!
- Watch the LED's on the side of the unit to see the state of the device.

Please refer to the LED state explanation form for reference.

Note: The YELLOW and GREEN LED's will not be on until the system goes to full working mode, normally 30 seconds after power on.

Please refer to page 6 for more information

12. To test that the device is working correctly, move the vehicle outside, ensuring that the GPS antenna has a clear view of the sky.



- **For Online tracking** the LED indicator should show: RED (ON), YELLOW (FLASHING), GREEN (ON)
- **For GSM (SMS) tracking** the LED indicators should show: RED (ON), YELLOW (ON), Green (ON)

Once the power is connected to the fleetfinder GOLD device, the RED - LED should light up on the screen, indicating there is a solid connection. Turn the screen ON, using the switch at the top left of the device. (pictured). The GREEN LED will light up indicating the screen is powered on.

For testing of the device, monitor the symbols displayed at the top left of the screen. (pictured). The explanation of the symbols is below.



- Will be empty when there is no connection with the GOLD device.
- Will be Yellow, indicating FULL when there is a solid connection from the screen to the main device.



- Will be gray when there is no connection between the main device and the screen.
- Will be lit up when there is a good connection between the screen and the main device.
- There is a bar graph, showing the signal strength for GSM.



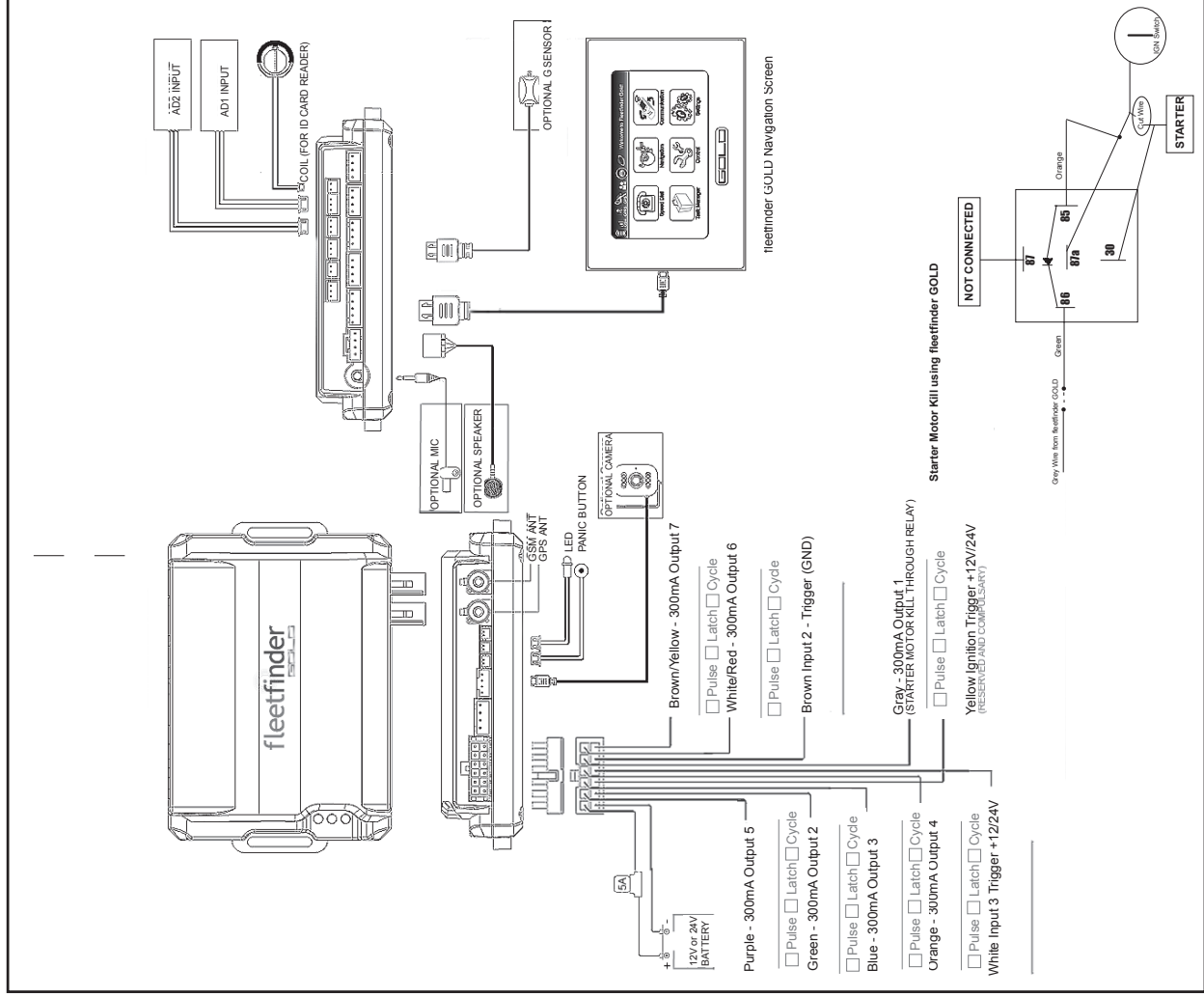
- Will be gray when there is no connection between the main device and the screen, or there is no GPRS network available.
- Will be lit up orange, when there is a connection to the servers through the GPRS network.



- Will be gray when there is no connection between the main device and the screen, or there is no GPS signal.
- Will be lit up Blue when the device has a solid GPS signal, and will indicate the amount of satellites that the GPS antenna can communicate with.



Wiring Diagram



13. Start tracking

- **On-line Tracking:**

If online tracking was ordered with the device, it should already be set up to start monitoring the location. Refer to your service agreement which will include your username, password and the software link.

The following LED conditions described below determine the unit operation.

RED LED	On solid state	unit powered by main power
	Flashing	unit operating under backup battery (check vehicle power supply)
	Off	means there is no power to the unit (check fuse, and connection of the red and black wires.)
YELLOW LED	Flashing	means unit is registered on the network, and connected to the tracking server.
	On but not flashing	means the unit is registered on the network, but not connected via GPRS. – check APN, username and password (refer network provider for the APN, username and password) APN setting correct, but still not flashing - means that there is no credit on the account (if pre paid is used) or the account is disabled (check with network provider to ensure the bill is upto date) (To troubleshoot, remove the sim card from the device, and put it in a phone. Try to send a message.) If the problem persists, please call your Fleetminder manager.
	Off	means the device is unable to register onto the network. Please ensure the sim card is inserted correctly. And that the sim card is valid, and activated. In case there is a pin on the device, please ensure that the pin is removed (this can be done when a sim card is inserted in a phone, by accessing the security menu.)
GREEN LED	On	means that the device is able to get a current GPS location
	Off	means that the device is unable to get a current GPS fix. Please check the antenna location, and ensure that it has a clear view of the sky.

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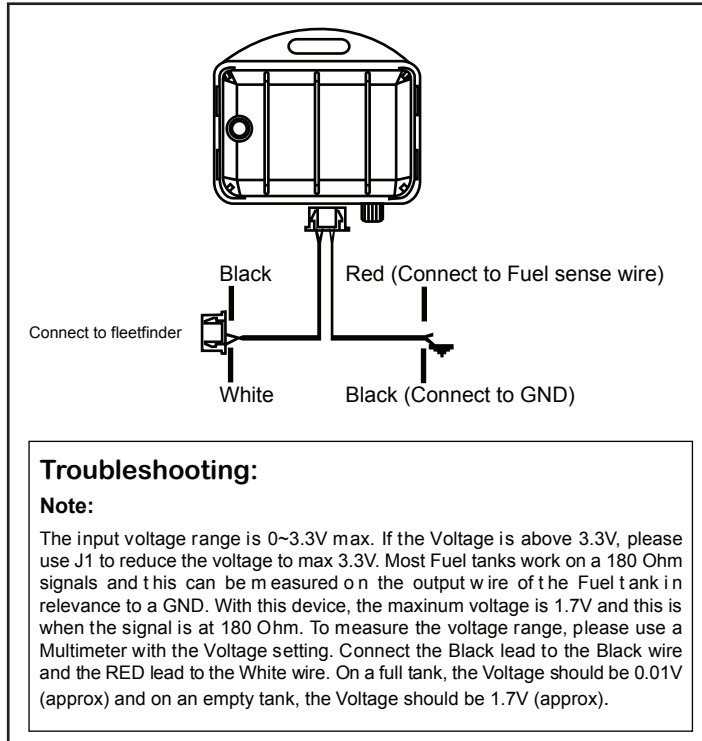
Further explanation of the LED functionality is described below:

RED LED	Power indicator: When the unit is powered on using main power, the led will be permanently on. When the main power is cut, the unit will switch to backup battery mode, the led will flash until the backup battery runs out of power.
	Troubleshooting: Check that you have a valid 12V or 24V source connected to the device. The RED wire should be connected to the positive terminal, and the Black wire should be connected to the Ground terminal. If there is power applied to these wires, please check the inline fuse.
YELLOW LED	GSM / GPRS indicator: The yellow LED will flash when the device is connected to the tracking server with a valid GPRS connection. It will stay on continually when it is in sms mode only, or when the GSM is present but invalid APN, username and password have been set.
	Troubleshooting: If the YELLOW light is not on at all, please ensure the GSM antenna is connected, and that the sim card is properly inserted, with the gold terminals facing the circuit board. Please ensure the terminals are clean, and the sim card clips into place appropriately. If this fails, please put the sim card into a phone, and make sure that it is registered, and that you are able to send a message from the phone. Please ensure the sim pin on the sim card has been disabled (this can be done in the security settings in a mobile phone). If the yellow light is on, but not flashing, please ensure that you have the correct APN, username and password set for the network. The APN is usually different for each network provider, and can be found by calling the telecommunications provider, some telecommunications providers require a username and password to be declared, please ensure that you have these details. The APN, username and password can be set only from the primary defined phone number (please refer to the Users Manual for setting primary identity). The primary phone needs to send commands for setting the APN, username and password (these commands can be found in the command list in the users manual)
GREEN LED	GPS indicator: This LED will stay on when there is a valid GPS fix. When there is no GPS reception, the led will not be lit.
	Troubleshooting: Please ensure that the GPS antenna (gold connector) is connected, and that it is mounted in a suitable spot with clear view of the sky. The vehicle must be outside to be able to get a GPS fix.

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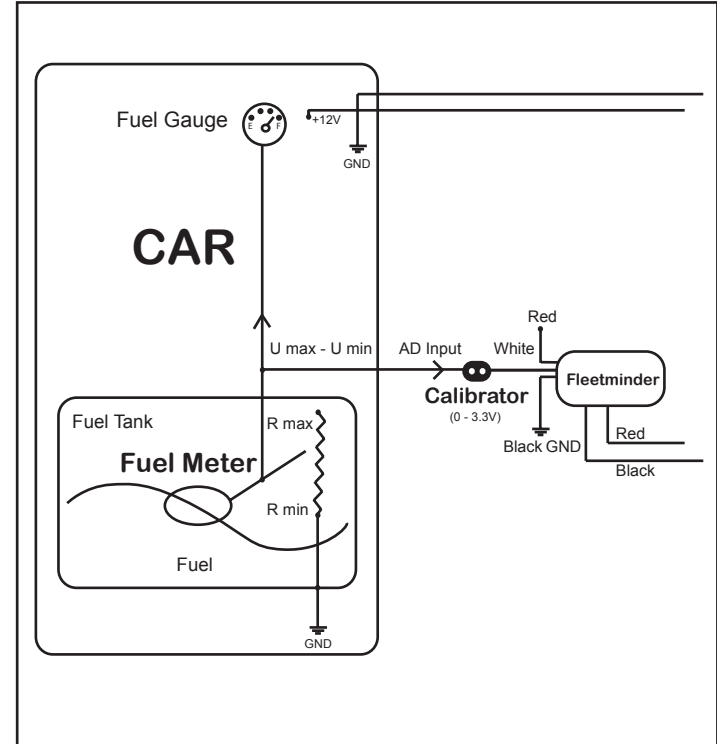
Fuel Calibrator Connections



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Fuel Sensor Map



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