



Getting Started

(GPLink MTU)

Installation Manual

wi-0020 rev A 12/2012

Notice - The GPLink system is only an aid to operation of the equipment it is installed on. The performance of the system and the system performance specifications can be affected by many factors including but not limited to equipment failure, environmental conditions, improper installation, handling and/or use. This device should not be used for any navigational or safety purpose. The GPLink system is used at your sole risk and in no event shall GPLink, Inc. be held liable for any costs, losses, liabilities, damages, expense or claims of any nature incurred or sustained in respect of this device or its use. You further indemnify and hold harmless GPLink Inc. and their partners from any liability or loss resulting from use of the device.

Parts List (Single Band)		
Part #	DESCRIPTION	QTY.
AN9003	GPS/GSM antenna	1
AN9004	GPS/Iridium antenna	1
GWD050	GPLink (MTU) GSM	1
GWD051	GPLink (MTU) Iridium	1
HN9040	Power Harness	1
HN9044	J1939 CAN Harness	1
HN0671	Antenna Extension	2
HW0245	Mounting Hardware	1
BK9990	Antenna Mounting bracket	1
WI0020	Installation Manual	1



GWD050 - GSM



GWD051 - Iridium



BK9990



HN9040



HN9041



HN9042

1) Installation:

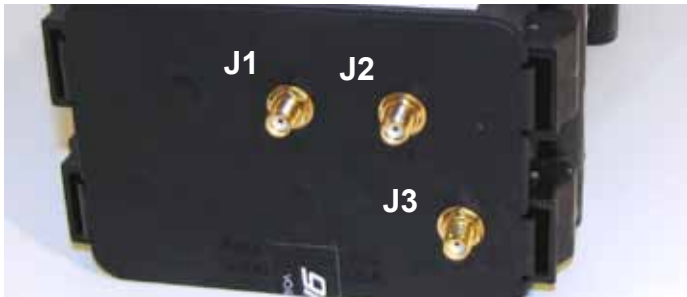
Locate an area to mount the antenna less than 3 meters from the Mobile Transmitting Unit (MTU). Mount the antenna, using the Antenna mounting bracket (BK9990), and run the cables to MTU.

- a) Mount the MTU in an area where there is easy access to antenna cables and the battery or power source.
- b) **GPS** Connect the Blue colored wire to the J1 connector on the MTU.
- c) **GSM** Connect the Yellow colored wire to the J2 connector on the MTU if connecting a GMS device.

or

SAT Connect the White colored wire to the J3 connector on the MTU if connecting an Iridium device.

Connect cables to mounting location of the MTU.



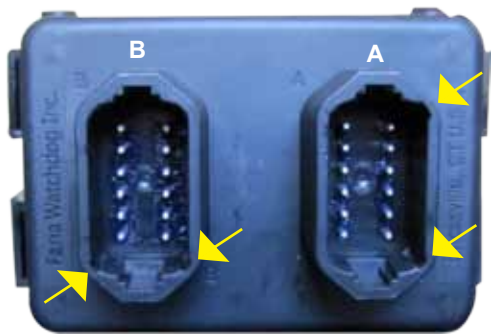
2) Power Harness: (HN9040) (See the Wiring Diagram)



- a) Connect the power harness (HN9040) (Gray Connector (A)) to the MTU at receptacle "A"
- b) Connect the RED wire directly to a continuous 12-24 vDC source or the positive battery terminal.
- c) Connect the BLACK wire to a good ground, preferably the negative battery terminal.

Note: The connector and receptacle are keyed so that they can only go together

one way. Please be sure to line up the guides on the connector with the slots in the receptacle when connecting the harness to the MTU.



3) **J1939 Harness:** (HN9041) (See the Wiring Diagram)



- a) Connect the J1939 harness (HN9041) (Black Connector (B)) to the MTU at receptacle “B”.
- b) Connect the GREEN (CAN High), YELLOW (CAN Low) and BARE (Shield) wires to the corresponding J1939 connector wires on the generator.
- c) The BLUE and GRAY wires are available for use as outputs.

4) **MODBUS Harness:** (HN9042) (See the Wiring Diagram)



- a) Connect the four pin Deutsche connector to the Deutsche connector on the Power harness (HN9040).

b) Connect the WHITE (D+), GREEN (D-) and BLACK (Ground) wires to the corresponding connector on the Genset controller.

5) Analog Inputs and Outputs.

a) From the Power harness (HN9040) connect the BROWN wire to any 240/33 fuel level sender input.

b) Other Inputs and Output connection are available.

Wiring diagram

GWD050/GWD051

User Interface
(optional)

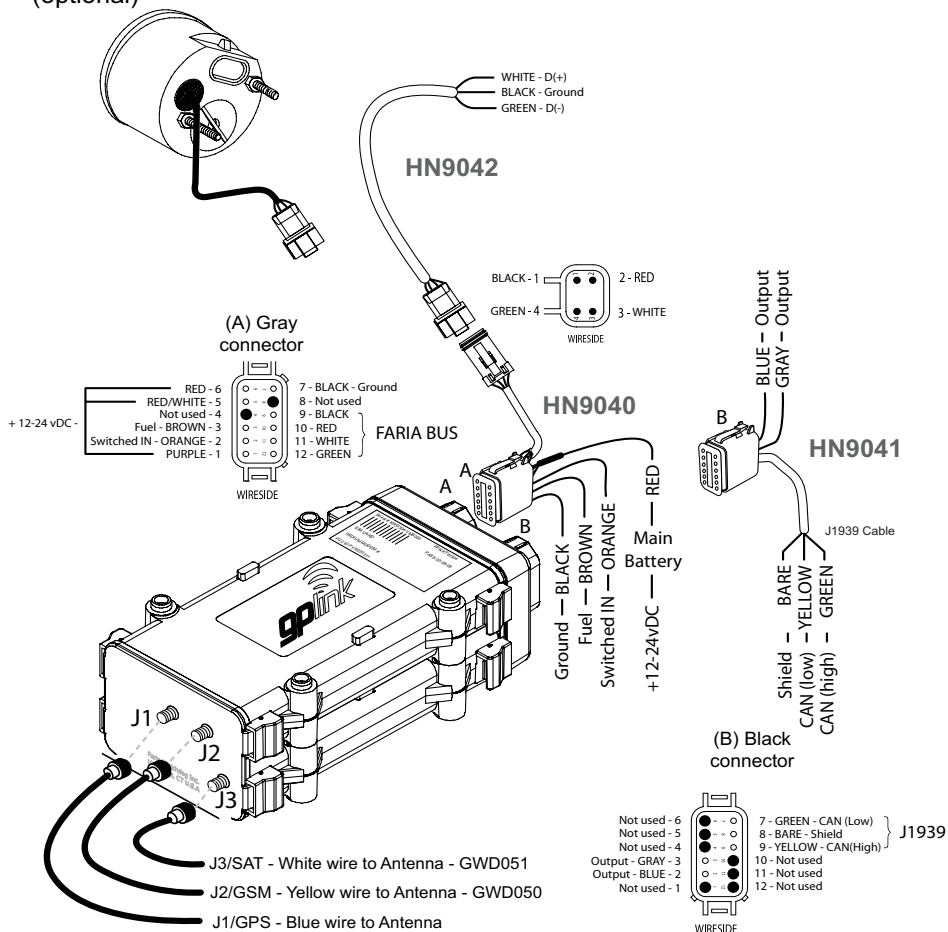


Figure 1

2-INCH USER INTERFACE (Optional)

The 2-inch User Interface displays the status of communications to the MTU, (mobile transmitting unit). The MTU uses GPS and at least one communication channel, (either GSM/GPRS or Iridium satellite) to send vehicle or equipment status and position.

Connect the User Interface with the wiring harness (HN9040) as shown in the Wiring Diagram.

OPERATION:

When power is applied your interface display will beep and the LCD will illuminate. To show that the MTU is running the 2-inch display will show one of the following messages:

1. “Wait” is the boot up message, which indicates the unit is trying to communicate with the MTU.



2. “Comm” Indicates the MTU is running, has a GPS fix and has at least one communication channel open/available, (GSM or Iridium).



3. “No-Comm” with RED LED’s continuously on indicates the MTU is running but cannot get a GPS fix, cannot communicate, (via GSM or Iridium), or both GPS and communication links are down.



DIAGNOSTICS:

Press the “S” button to enter the **STATUS mode**. Then, press “Mode” to step through status displays as follows:



For dual band system, (GSM and Satellite), **GSM signal strength** will display from 0, (no signal) to 5, (best signal).



Sat signal strength, will display from 0, (no signal), to 5, (best signal).



GPS PDOP X 100, (a PDOP of 1.23 will read 0123, etc), 9999 (means no GPS signal), For PDOP lower numbers represent a better connection.



Main battery voltage X100 (battery voltage of 12.34 Volts will appear as “1234”).



Back up Battery voltage The Back-Up voltage will be the same value as the main battery voltage. The wires are tied together in the harness.



