To Access Diagnostics on MDT/CTO/Laptop

1. **CNTL & 1** - This function shows you if you unit is Registered on the GPRS Network. **Type TEFF on laptop or press GPRS Status on CTO**
It will display the **MIN**: 0C00CE0A00, **VIP**: 12.0.206.10, RSSI: -67 AT&T   Registered

   Notes:
   - The MIN is the VIP# in Hex
   - The VIP: is the Virtual IP address of the sim card it should match the VIP on the sticker of the unit
   - The RSSI is a negative number between -51 and -144 the lower the number the stronger the signal.
   - The unit will also display what carrier the unit is registered on we use AT&T or T-Mobile the unit will register on a roaming carrier if you are in a remote area.

2. **CNTL & 2** - This function shows you if the unit has acquired GPS. It will display the following:

   GPS: 33.798682 -118.003103 ACQUIRED 3D HDP: 1.0 Sat: 09 SNR: 39 01/17/11 16:29:09 SPD: 0.0 HDG: 0.0 ALT: 0.0
   Type TEFE on the Laptop or press GPS Status on CTO
   Notes:
   - The GPS: displays the Lat/long of your unit.
   - The unit will display Acquired 3D when it has located Satellites.
   - The HDP: should be 1 or less this is how well the SATs spaced are around the unit.
   - The SNR: is the signal to noise ratio of the GPS receiver this should be 36 or higher any lower number and the unit may lose its GPS signal.
   - The date stamp is in GMT it should show you the current date.

3. **CNTL & 3 - T**his button shows you if the unit has acquired a HST and a LCL. **Type TEFD on laptop or press IP Status on CTO**
It will display the following: APN: TELETRAC.NET   HST: 15.1.1.224   LCL: 172.16.45.56

   Notes:
   - The APN: should always say Teletrac.net
   - The HST: is the host computer the unit is registered on, on our Teletrac network
   - The LCL: is the IP address the carrier has registered the unit with.

4. **CNTL & 4** - This button show you if the unit is receiving ignition & input signals along with sleep entry time. It will display the following: PM:ENTRY DLY 00h00m00s OP1: ON FIL: OK   IGN:ON* IN1:OFF IN2:OFF IN3:OFF IN4:OFF MDT:OFF SHOCK:OFF **Type TEFC for laptop command or press I/O Status on CTO**

   Notes:
   - The PM: Entry: this number should count up after you cut the ignition off.
   - OP1 shows if Output 1 is on or off when you activate an input the status will change from on to off.
   - OP2 shows id Output 2 is on or off when you activate an input the status will change from on to off.
   - IGN: shows if the ignition is on or off. When you turn the ignition on the status will change from on to off.
   - IN1: shows if input 1 (gray/black wire) when you activate it the status will change from on to off.
   - IN2: shows if input 2 (orange wire on TM2J) when you activate it the status will change from on to off.
   - IN3: shows if input 3 (orange on TM450 &TM2) when you activate it the status will change form on to off.
   - MDT: N/A; Shock : N/A

5. **CNTL & 5** - This button shows you the mode of the unit. It will display the following: AVLU:Active; Modem: Online; GPS:ACQED; USR:LOGOUT; SCR:DisARMD; FIL:NJ **Type Mode?** on laptop or press VLU Status on CTO**

   Notes:
   - AVLU: This tells you if the unit is active
   - Modem : Tells you the status of the Modem
   - GPS: Tells you if the unit has GPS
   - USR: N/A ; SCR: N/A
   - FIL: This tells you why the FIL light is staying on.

6. FIL Code Definitions (MDT)

These are codes you will see on the MDT if the FIL Light is on.

MDT Codes	OTA Codes	Description
OK	0 - FIL is off	Normal
NJ	1 - JBus is down	Cannot read JBUS data from vehicle
BF	2 - Memory is full	VLUs memory is full
NG	4 - GPS is down	NO GPS
NJ, NG	5 - JBus and GPS are down	no GPS and no JBUS
NC	8 - Communication down	You should never see this OTA because it means the unit can't connect to Teletrac
NM	16 - MDT failure	MDT and the VLU aren't talking
NH	32 - DOT server down/HOS log failure	DOT server is down or the local HOS logs are corrupt

7. Jbus Commands in Hyper-terminal (when connected to the unit)

- **|JHW?****   =   To show the JBUS hardware setting

- **|JPR SHOW****   =   Shows Jbus settings
  - ➢ This is an example of the results line:
    - ÿ1094851295^77018.3^42.750^11.75^24910^33^7^0^0^0^0^17527^318^0^0^0.00^0^69639^14^379828^2100^70^75^5^0^2700
    - The third value in red is the odometer reading,
    - The fourth value in blue is the fuel reading.

- **|ODO ^-mileage difference^ ****   = If mileage of our unit is higher than the vehicle odometer

- **|ODO ^ mileage difference^****   = If mileage of our unit is lower than the vehicle odometer

- **|ODO= ^mileage ^**   =   If vehicle just reads trip mileage or has no odometer reading

- **|JPR RST****   =   CLEARS ODOMETER

- **|RS RETEST****   =   FIL TEST

- **|RESET HOS DEF**** =   RESETS HOS LOG

- **|RESET DOT****   =   RESETS HOS LOG

- **|TEF7****   =   RESETS FIL LIGHT

- **|TE03****   =   FORCES UNIT TO DOWNLOAD ITS PROFILE