

## Adding Fuel Level Monitoring to Mobius and Nav/C2 Systems

## Introduction

The hardware on the Nav/C2 supports reading the fuel level on the MLT. In order to leverage this capability, a configuration change is required for Mobius and the Nav/C2.

## Procedure

- 1. Verify that the C:\GC07\OBDIICommands.txt on the local machine is v1.01, *as follows*:
  - a. Open the file and verify that the first line reads:
  - 'OBD Scan Code configuration, v1.01
  - b. If the version is NOT v1.01, or the file is missing, then download the latest file from: <code>http://www.kairosautonomi.com/tmp/MLT/OBDIICommands.txt</code>
- 2. Copy version 1.01 of OBDCommands.txt (C:\GC07\OBDIICommands.txt) to the Nav/C2 system, *as follows*:
  - a. Go to Start->Programs->TightVNC->TightVNC Viewer
  - b. Enter the IP address of the Nav/C2 when prompted for the TightVNC Server and then click "Connect".
  - c. Enter "pronto4" when prompted for the password.
  - d. Click on the "Transfer files..." icon.
  - e. In the right pane, navigate to C:\GC07.
  - f. In the left pane, navigate to C:\GC07 or wherever the OBDCommands.txt file was downloaded.



g. In the left pane, highlight the OBDCommands.txt file and then press the button with two arrows pointing to the right.

TightVNC File Transfer						×
Local Computer (Viewer)				Remote Computer (Server)		
C:\GC07				/C:/GC07		
Filename	Size	Modification time	]	Filename	Size	Modification time
LineFollow.djmfpid	365 B	5/15/2013 6:58:22		t	<folder></folder>	
LineFollow.png	19.80 KB	2/12/2013 1:59:28		DLLs	<folder></folder>	
🖆 LukeMLT.djmfpid	351 B	11/28/2010 5:17:3		D Support	<folder></folder>	
🖾 LukeMLT 1. djmfpid	349 B	11/28/2010 5:29:0		Backup	<folder></folder>	
🖾 LukeMLT2.djmfpid	368 B	12/2/2010 12:25:5		💼 html	<folder></folder>	
🖆 LukeMLT3.djmfpid	387 B	12/15/2010 11:34:		🙆 install.log	451.60 KB	6/27/2013 10:13:5
Luke_subsystem70	76.79 KB	2/13/2014 5:20:56		🖆 register.bat	4.72 KB	6/27/2013 10:11:3
🙆 maps.html	1.95 KB	5/20/2008 6:04:42		P4_Background_Ima	254.04 KB	3/2/2008 9:00:38 Af
MLT.sv	5.21 KB	2/27/2013 3:00:40		P4_Background_Ima	386.71 KB	3/2/2008 9:00:04 Af
MobileSetup.txt	1.06 KB	3/31/2009 6:22:30	<<	DFPSwtch.dll	12.00 KB	3/28/2006 1:54:08
MSFLXGRD.oca	74.50 KB	10/23/2009 5:58:2		PIXkeys.ocx	80.00 KB	7/12/2004 2:00:26
MSFLXGRD.OCX	254.77 KB	3/9/2004 12:00:00	1	MSFLXGRD.OCX	254.77 KB	3/9/2004 12:00:00
🖾 Name.txt	367 B	2/9/2012 10:30:04		🖆 DJImageWB.exe	1.62 MB	6/15/2007 6:12:18
MG_Bob_v1.csv	1.48 KB	11/13/2012 5:00:3		DJMMapViewer.exe	468.00 KB	10/24/2013 9:08:3
🖾 NissanTruck.jpg	56.46 KB	1/8/2011 12:42:38		DJRemoteCommand	24.00 KB	6/15/2007 5:12:02
Notes.txt	5.19 KB	2/9/2011 4:24:58 PN		DJSeq.exe	68.00 KB	7/13/2006 6:11:30
OBDIICommands.txt	8.03 KB	1/27/2012 10:23:4		🖆 Depends.exe	31.13 KB	10/29/2003 8:23:0
OCUScript.txt	1.86 KB	3/28/2013 8:17:10 *		GPS2RDDF.exe	344.00 KB	4/28/2013 5:38:04 *
•		•		•		
Rename         Mkdir         Remove         Refresh						
						▼.
						Cancel



h. When asked, click "Overwrite" (if the file previously existed) or "Yes" (file was missing).



**OR** (based solely on personal preference)

- a. Go to My Computer and navigate to C:\GC07
- b. Right click on the OBDCommands.txt file and select Copy
- c. Type the following into the address bar: \\IPADDRESS\_OF\_NAVC2\C\
- d. Right click on the GC07 folder and select Paste. Overwrite the existing file when prompted.
- 3. Reboot the Nav/C2 system.
- 4. Using Mobius, log into the Nav/C2 system.
- 5. Open the DKS window (Window->DKS).
- 6. Scroll down and expand the Dynamic Knowledge Store->SharedVariable and check the box next to Gauge[8]. Change the fields to match the following screenshot:



7. Right-click on the top most item (i.e. the P4S4 Serial Number) in the left side of the DKS window and select Persist Changes.



8. If the Fuel Gauge is not visible in Mobius, open up the Gauge Editor (Vehicle->Gauges). Select Pronto4 Fuel from the left side and then select Show in Gauge Panel.

If the Fuel Gauge is still not visible, click on the "Cabin Temp" gauge then press the "delete" key. Confirm that the Gauge Editor now looks like the following screenshot. Click-and-drag Gauges that need to be moved around and resized.

Gauge Editor		
File		
[Steer Power] (165)         A/C         Acceleration Source         Altude, logging         Angular Rate Source         Autonomous Odometer         Autonomous Odometer         Autonomous Odometer         Autonomous Time         Battery         Brake Setpoint         Cabin Temperature         Dead Reckon mode         Engine Enabled         Engine RPM         Engine Remerature         External Disable         Gear         Global Pose Source         Headlights         Key On         Local Position X         Local Position X         Local Position Z         Local Position X         Portot A Quality         Porotot 4 Quali	Rate       5.00   ➡ Hz         Gauge Panel       Image: Show In Gauge Panel         as       Bar Percentage Gauge   ▼         Disconnected       Remove         Limits       Image: Show In Gauge Panel         Add Limit       Remove All         Logging       Log To File         Send To Plotter       Image: Send To Plotter         Mode       Each Mission New File	<ul> <li>Implementation of the second se</li></ul>
		Apply OK Cancel

9. Reboot the Nav/C2 and confirm that the fuel gauge is displaying the correct fuel level.





## **Contact Information**

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