ScanGauge II XGauge Programming

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Overview

This document lists information for setting up common and useful XGauge parameters on the ScanGauge II.

Application

The information here applies specifically to the 1996 and newer Hummer / H1 vehicles with the 6.5L Diesel engine. This information may also apply to non-Hummer vehicles with the same engine.

List of Gauges

The following gauges are listed in this document:

- Injection Timing
- Transmission Fluid Temperature
- Engine Torque
- Fuel Rate
- Fuel Temperature
- Wastegate Solenoid
- Turbo Boost Pressure

Notes / Special Instructions

Notes:

Some of the Gauges have multiple possible configurations. Try them until you find one that works

The "NAM" field is a 3-character name shown next to the value for the datum being displayed. You may use any 3-character code, values provided here are suggestions.

Refer to the instructions from the manufacturer for details on how to program and operate your ScanGauge II.

Injection Timing

Units: Degrees

Code	Value	Notes
TXD	6C10F12211D3	Alternate: 6C10F12211D3(01)
RXF	0462851106D3	
RXD	3008	
MTH	000100010000	
NAM	ITD	

Transmission Fluid Temperature

Units: Degrees F

Code	Value	Notes
TXD	6C10F1221940(01)	Alternate: 6C18F1221940(01)
RXF	046205190640	
RXD	3008	
MTH	00090005FFD8	
NAM	TFT	

Engine Torque

Units: Lb-Ft

Code	Value	Notes
TXD	6C10F12219FC(01)	
RXF	0462051906FC	
RXD	3010	
MTH	002500320000	
NAM	TRQ	

Fuel Rate

Units: Cubic Millimeters

Code	Value	Notes
TXD	6C10F1221222(01)	
RXF	046205120622(01)	
RXD	3010	
MTH	000A00200000	
NAM	FLR	

Fuel Temperature

Units: Degrees

Code	Value	Notes
TXD	6C10F122114C(01)	
RXF	04620511064C	
RXD	3008	
MTH	00090005FFD8	
NAM	FLT	

Wastegate Solenoid

Units: %

Code	Value	Notes
TXD	6C10F1221174(01)	
RXF	046205110674	
RXD	3008	
MTH	006400FF0000	
NAM	WGS	

Turbo Boost Pressure

Units: PSI

Note: Calibration required.

Code	Value	Notes
TXD	6C10F122116D(01)	
RXF	04628511066D	
RXD	3008	
MTH	001D0014xxxx	See procedure / table for xxxx value
NAM	PSI	

To determine what value to input into the "xxxx" part of the MTH field:

1. Find your approximate altitude in the table below
2. Substitute the corresponding "xxxx" value into the MTH field

If you follow those steps correctly, then PSI should read 0.0 with key on / engine off. If it does, then your boost gauge is properly calibrated and reading correctly.

Note: Changes in altitude and temperature can affect the accuracy of the boost reading slightly, so be sure to check the PSI reading with key on / engine off every so often and recalibrate it as needed.

PSI	SG II "xxxx" value	Altitude (ft)	Location	Local Altitude
10.0	FF7E	10280		
10.1	FF7D	10020	Leadville, CO	10151
10.2	FF93	9770		
10.3	FF92	9520		
10.4	FF7E	9270		
10.5	FF7D	9020		
10.6	FF91	8770	Telluride, CO	8750
10.7	FF90	8530		
10.8	FF7E	8290		
10.9	FF7D	8050		
11.0	FF89	7810		
11.1	FF88	7570		
11.2	FF7E	7330		
11.3	FF7D	7100	Santa Fe, NM	7199
11.4	FF87	6870		

11.5	FF86	6640		
11.6	FF7E	6410	Durango, CO	6522
11.7	FF7D	6180		
11.8	FF85	5960		
11.9	FF84	5730		
12.0	FF7E	5510	Farmington, NM	5394
12.1	FF7D	5290	Denver, CO	5280
12.2	FF83	5070		
12.3	FF82	4850		
12.4	FF7F	4630		
12.5	FF7E	4420		
12.6	FF7D	4200		
12.7	FF81	3990	Moab, UT	4026
12.8	FF80	3780		
12.9	FF7F	3570		
13.0	FF7E	3360	Carlsbad, NM	3295
13.1	FF7D	3150		
13.2	FF7C	2950		
13.3	FF7B	2740		
13.4	FF7A	2540		
13.5	FF79	2340		
13.6	FF78	2140		
13.7	FF77	1940	Las Vegas, NV	2001
13.8	FF76	1740		
13.9	FF75	1540		
14.0	FF74	1340		
14.1	FF73	1150	Phoenix, AZ	1086
14.2	FF72	955		
14.3	FF71	761		
14.4	FF70	569		
14.5	FF6F	379		
14.6	FF6E	189	Houston, TX	105
14.7	FF6D	0	Sea Level	
14.8	FF6C	-188	Death Valley	-282