I would like to see NMEA2000 Engine and Transmission warnings on my N2K network, what J1939 diagnostic codes will the J2K100 convert?

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The J2K100 will convert J1939 Diagnostic SPN/PGNs to NMEA2000 Engine and Transmission Warning messages. Consult the engine manufacturer to determine if an engine will transmit these messages over the NMEA2000 bus.

The following table (figure 1) provides a parameter description for each J1939 engine warning message and what the J2K100 will convert to NMEA2000.

User's must upgrade or verify that the J2K100 is running firmware version 1.2.1.1 or 2.2.1.1 to take advantage of the diagnostic message conversion feature.

J1939 SPN/PGN	J1939 Parameter	NMEA 2000 PGN	NMEA 2000 Field	Engine/Transmission Warning Field
190 / 61444	Engine Speed	127489	11	12 / Rev Limit Exceeded
102 / 65270	Engine Turbocharger Boost Pressure	127489	11	11 / High Boost Pressure
100 / 65263	Engine Oil Pressure	127489	11	2 / Low Oil Pressure
175 / 65262	Engine Oil Temperature 1	127489	11	0 / Check Engine
110 / 65262	Engine Coolant Temperature	127489	11	1 / Over Temperature
167 / 65271	Alternator Potential (Voltage)	127489	11	0 / Check Engine
183 / 65266	Engine Fuel Rate	127489	11	0 / Check Engine
247 / 65253	Engine Total Hours of Operation	127489	12	3 / Maintenance Needed
109 / 65263	Engine Coolant Pressure	127489	11	0 / Check Engine
94 / 65263	Engine Fuel Delivery Pressure	127489	11	5 / Low Fuel Pressure
92 / 61443	Engine Percent Load at Current Speed	127489	11	0 / Check Engine
513 / 61444	Actual Engine – Percent Torque	127489	11	0 / Check Engine
168 / 65271	Electrical Potential (Voltage)	127489	11	5 / Low System Voltage
158 / 65271	Battery Potential (Voltage), Switch	127489	11	5 / Low System Voltage
523 / 61445	Transmission Current Gear	127493	6	0 / Check Transmission
127 / 65272	Transmission Oil Pressure	127493	6	2 / Low Oil Pressure
177 / 65272	Transmission Oil Temperature	127493	6	1 / Over Temperature
0 / 0	None specified	127489	11	0 / Check Engine

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Figure 1

Figure 2 is a sample of an N2KView custom engine warning page designed by Marinplus in Sweden. In the attachment section of this article is an Engine warning page ready for import into N2KView. Simply download the file, go to Commands & Settings-->Screen Setup-->Import Screen, Select the "Engine_Warning_page.nvs" file. Next, edit the "Engine Warnings page, Click Browse in the "Select Background" menu choose the "Engine-Warnings.png" , click save to complete the import of your new screen.

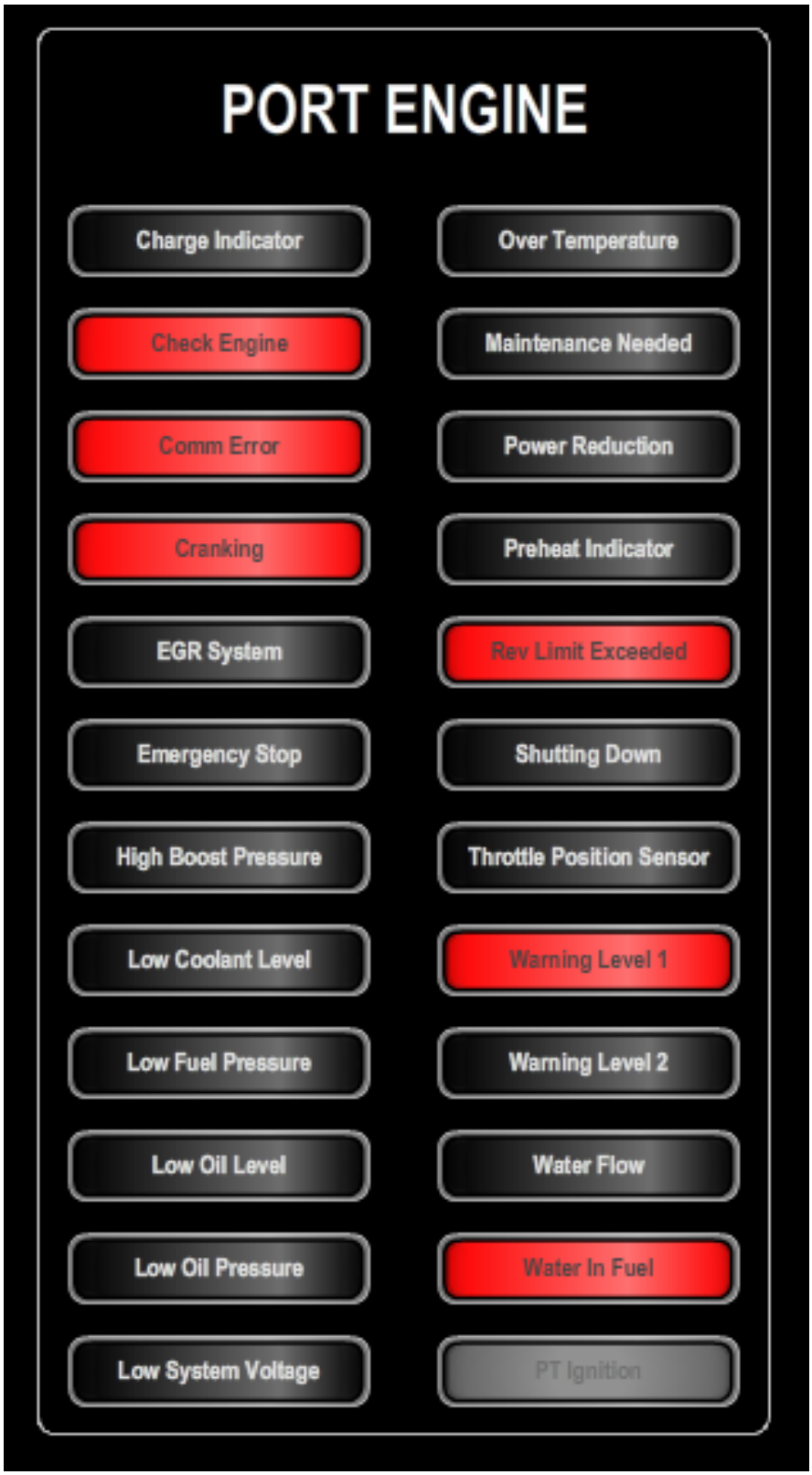

PORT ENGINE
Charge Indicator
Check Engine
Comm Error
Cranking
EGR System
Emergency Stop
High Boost Pressure
Low Coolant Level
Low Fuel Pressure
Low Oil Level
Low Oil Pressure
Low System Voltage
Over Temperature
Maintenance Needed
Power Reduction
Preheat Indicator
Rev Limit Exceeded
Shutting Down
Throttle Position Sensor
Warning Level 1
Warning Level 2
Water Flow
Water In Fuel
PT Ignition

Figure 2

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