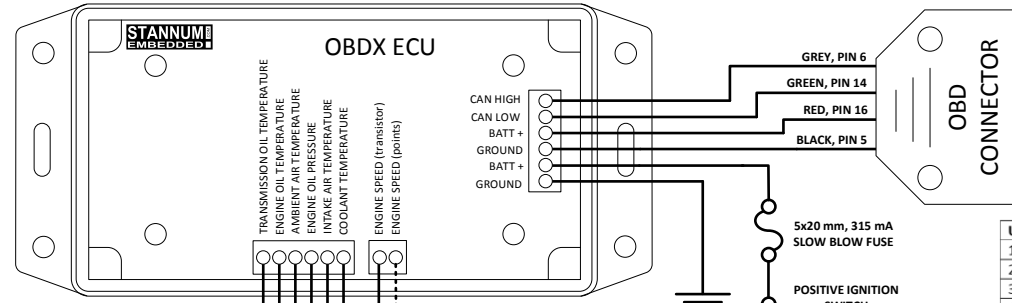
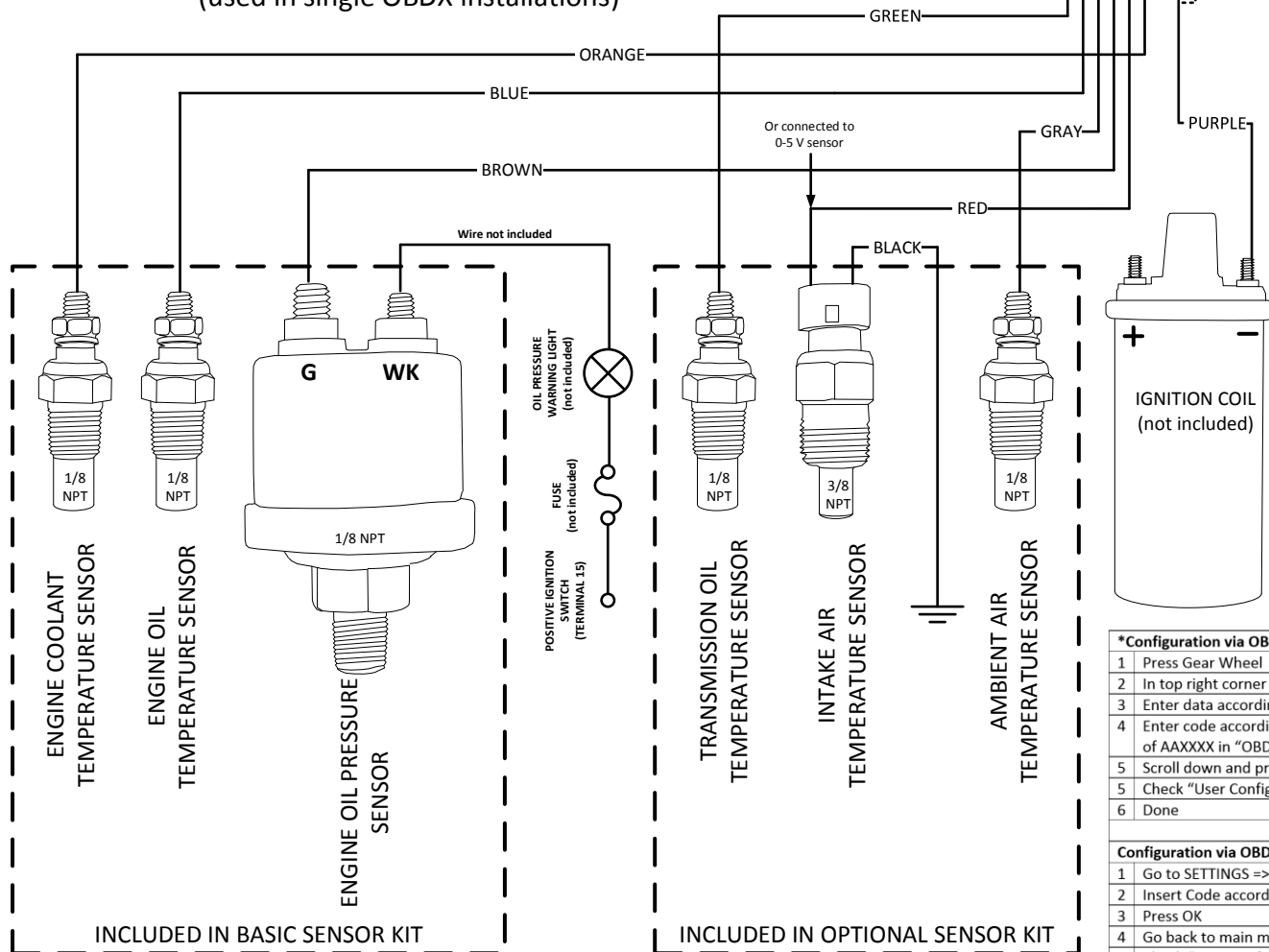


STANNUM EMBEDDED .COM

www.stannumembedded.com

CONFIGURATION A (used in single OBDX installations)



User Configuration Info, PID 01AD	
1	Number of Cylinders
2	Fuel Level Function
3	Fuel Level Sensor Type
4	Fuel Level Empty Resistance
6	Fuel Level Full Resistance
8	0-5 Volt Input Function
9	OBDX Configuration
12	Software Version

OBD Torque App (available for Android)					
OBD2 Mode and PID	01AA	01A9	01AD	01AB	XXXXXX*
Long name	Engine Oil Pressure	Transmission Oil Temp	User Configuration Info	0-5 Volt input	User Configuration Request
Short name	Eng Oil Pres	Trans Oil Temp	User Config Info	Lambda (for example)	User Config Req
Category	Engine	Engine	Engine	Engine	Engine
Min Value	0	0	0	0	0
Max Value	765	210	16777216	1024	65535
Scale Factor	X1	X1	X1	X1	X1
Unit type	kPa	degC	-	-	-
Equation	A*3	A-40	(A*65536)+(B*256)+C	user defined	A

OBD Fusion App (available for Android and Iphone)				
Name	Engine Oil Pres	Trans Oil Temp	User Config Info	0-5 V input
Description	Engine Oil Pressure	Transmission Oil Temperature	User Configuration Information	Voltage
Category	Engine	Engine	Engine	Engine
Metric Units	kPa	degC	-	-
Min Value	0	0	0	0
Max Value	765	210	16777216	1023
OBD Mode	ALL	ALL	ALL	ALL
PID Number	AA	A9	AD	AB
Priority	Medium	Low	Low	Medium
Equation	A*3	A-40	(A*65536)+(B*256)+C	User defined

*Configuration via OBD Torque

- 1 Press Gear Wheel symbol => Manage extra PIDs/Sensors
- 2 In top right corner select "Add Custom Pid"
- 3 Enter data according to last column in OBD Torque Table above
- 4 Enter code according to CONFIGURATION CODES table instead of AAXXXX in "OBD Mode and PID"
- 5 Scroll down and press "test"
- 5 Check "User Config Info" PID for confirmation
- 6 Done

Configuration via OBD Fusion

- 1 Go to SETTINGS => Advanced => Interface Initialization
- 2 Insert Code according to CONFIGURATION CODES table
- 3 Press OK
- 4 Go back to main menu and press DISCONNECT than CONNECT
- 5 Check "User Config Info" PID for confirmation
- 6 Done

The following configurations can be made in the app to take full advantage of the OBDX system

- A user defined PID must be specified if the Transmission Oil Temperature sensor shall be used
- A user defined PID must be specified if the Engine Oil Pressure sensor shall be used
- A user defined PID must be specified if the 0-5 Volt input shall be used
- A user defined PID must be specified to be able to view OBDX user configuration

OBDX revision 2.1.1

Parameter	Unit	Value
System Voltage	12.0	V
Maximum Voltage	20.0	V
Minimum Voltage	8.5	V
Current draw	250	mA

CONFIGURATION CODES

Configuration 1: Number of cylinders on a 4-stroke engine

Code	Configuration
AA0101	8 cylinder engine
AA0101	1 cylinder engine (or coil on plug)
AA0102	2 cylinder engine
AA0103	3 cylinder engine
AA0104	4 cylinder engine
AA0105	5 cylinder engine
AA0106	6 cylinder engine
AA0108	8 cylinder engine

Configuration 2: Fuel Level Indication function. The input normally used for ambient air temperature is replaced with fuel level indication. Ambient air temperature is either skipped or moved to another input. If moved to another input, the function normally used on that input is skipped instead.

Code	Configuration
AA0200	Do not use fuel level function
AA0201	Use Fuel Level function and move ambient air temperature to transmission oil temperature input
AA0202	Use Fuel Level function and move ambient air temperature to engine oil temperature input
AA0204	Use Fuel Level function and move ambient air temperature to engine oil pressure input
AA0205	Use Fuel Level function and move ambient air temperature to intake air temperature input
AA0206	Use Fuel Level function and move ambient air temperature to engine coolant temperature input

Configuration 3: Fuel Level sensor type (Sensor resistance: Full - Empty)

Code	Configuration
AA0300	Do not use fuel level function
AA0301	Ford < 1987, Mopar < 1987, AMC < 1978 (Sensor resistance: 73Ω - 10Ω)
AA0302	VDO aftermarket (Sensor resistance: 10Ω - 180Ω)
AA0303	Autometer / Classic Instruments aftermarket (Sensor resistance: 240Ω - 33Ω)
AA0304	General Motors < 1965 (Sensor resistance: 0Ω -30Ω)
AA0305	General Motors 1965-1997 (Sensor resistance: 0Ω -90Ω)
AA0306	Ford > 1987 (Sensor resistance: 16Ω - 158Ω)
AA0307	General Motors > 1997 (Sensor resistance: 40Ω -250Ω)
AA0308	User defined (see configuration 4 and 6)

Configuration 4: User defined fuel level sensor resistance (value at empty)

Code	Configuration
AA04XXXX	Value in Ω when sensor is in empty position. Enter value in hexadecimal (convert in windows calculator)

Configuration 6: User defined fuel level sensor resistance (value at full)

Code	Configuration
AA06XXXX	Value in Ω when sensor is in full position. Enter value in hexadecimal (convert in windows calculator)

Configuration 8: 0-5 Volt Input Function. The input normally used for intake air temperature can be replaced with an arbitrary sensor that outputs a 0-5 Volt signal (i.e. a wideband lambda sensor). Intake air temperature is either skipped or moved to another input. If moved to another input, the function normally used on that input is skipped instead. To use the 0-5 Volt function. Remove jumper on circuit board (named JMP1)

Code	Configuration
AA0800	Do not use 0-5 Volt Input function
AA0801	Use 0-5 Volt Input function and move intake air temperature to transmission oil temperature input
AA0802	Use 0-5 Volt Input function and move intake air temperature to engine oil temperature input
AA0803	Use 0-5 Volt Input function and move intake air temperature to ambient air temperature input
AA0804	Use 0-5 Volt Input function and move intake air temperature to engine oil pressure input
AA0806	Use 0-5 Volt Input function and move intake air temperature to engine coolant temperature input

Configuration 9: Multit-OBDX Configuration. If 2 OBDX units shall be connected together, one of the OBDX units needs to be configured as "Config B" (one OBDX unit shall be Config A and the other Config B)

Code	Configuration
AA0900	Config A
AA0901	Config B