

# VT/VX 41 Broadcast Frame

	Byte 0	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	Byte 9	Byte 10	Byte 11	Byte 12	Byte 13	Byte 14	Byte 15	Byte 16
	MESSAGE IDENTIFICATION BYTE	MESSAGE LENGTH BYTE	UNKNOWN	UNKNOWN	UNKNOWN	CHECKSUM											
Request	40	58	B4	67	0	4D											
Response	41	63	0	0	0	56	19	0	0	70	DB	2	0	0	10	0	90
	MESSAGE IDENTIFICATION BYTE	MESSAGE LENGTH BYTE	FUEL USED BYTE 0	FUEL USED BYTE 1	VEHICLE SPEED	COOLANT TEMPERATURE	?? BAROMETRIC PRESSURE	ENGINE SPEED	TORQUE MULTIPLIER	BIT MASK GROUP A	BIT MASK GROUP B	A/C PRESSURE	FUEL FLOW BYTE 0	FUEL FLOW BYTE 1	BIT MASK GROUP C	??? THROTTLE POSITION	CHECKSUM
	X	X	X	X	X	X		X	X	X	X	X	X	X	X		

Bitmask Group A								
BYTE	80	40	20	10	8	4	2	1
BIT	7	6	5	4	3	2	1	0
0x70	0	1	1	1	0	0	0	0
	UNKNOWN	Drive	Second	First	Serv Engine Oil	Oil Pressure	Power / Economy	Check Engine Light
			Third					
		Reverse						
		Park						
	X	X	X	X	X			X

Bitmask Group B								
BYTE	0x80	40	20	10	8	4	2	1
BIT	7	6	5	4	3	2	1	0
0xDB	1	1	0	1	1	0	1	1
	VATS				DTC Set	Serv Trans Oil		
	X				X	X		

Bitmask Group C								
BYTE	0x80	40	20	10	8	4	2	1
BIT	7	6	5	4	3	2	1	0
0x10	0	0	0	1	0	0	0	0
		Low Coolant Level		Transmission	A/C Compressor	Low Speed Fan Run	Low Speed Fan	Fuel Type
	X		X	X	X	X		X

Frame Details		
#	Byte	Details / Equation
0	Msg. ID Byte	
1	Msg. Len Byte	
2	Fuel Used	Byte 2    Byte 3
3		
4	Vehicle Speed	Byte 4
5	Coolant Temp.	Byte 5 - 40
6		
7	Engine Speed	Byte 7 * 25
8	Torque Multiplier	Byte 8 / 4
9	Bitmask Group A	See Bitmask Group A
10	Bitmask Group B	See Bitmask Group B
11	A/C Pressure	Byte 11 * 16
12	Fuel Flow	(Byte 12    Byte 13) / 100
13		
14	Bitmask Group C	See Bitmask Group C
15	UNKNOWN	UNKNOWN
16	Checksum	

\* VT/VX Cluster Hot Alarm @ 117 Degrees C

Missing

Throttle Failure

Map Failure

PCM Chime

Barometric Pressure

Throttle Position

Engine Type

High Coolant Temp

Commanded Gear