Transmission Controller Data Stream Summary

Powertrain Control Solutions, LLC 6/30/2009

38400 Baud, 8-N-1

To initiate the data stream, transmit "D" (ASCII \$44) to the controller. The TCU will respond with 68-byte data stream

0 Speed 1 2 1 0 RPM 2 Speed 2 2 1 0 RPM 4 Speed 3 2 1 0 RPM 6 Speed 4 2 1 0 RPM 6 Speed 4 2 1 0 RPM 8 AD1 2 13094.4 0 V 10 AD2 2 13094.4 0 V 14 AD4 2 13094.4 0 V 16 AD5 2 13094.4 0 V 20 AD7 2 13094.4 0 V 22 System Voltage 2 13094.4 V 2 24 PWM1 1 2.55 0 % 25 PWM2 1 2.55 0 % 26 PWM3 1 2.55 0 % 27 PWM4	
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6 Speed 4 2 1 0 RPM 8 AD1 2 13094.4 0 V 10 AD2 2 13094.4 0 V 12 AD3 2 13094.4 0 V 14 AD4 2 13094.4 0 V 16 AD5 2 13094.4 0 V 18 AD6 2 13094.4 0 V 20 AD7 2 13094.4 0 V 22 System Voltage 2 1190.4 0 V 23 System Voltage 2 1190.4 0 V 24 PWM1 1 2.55 0 % 25 PWM2 1 2.55 0 % 26 PWM3 1 2.55 0 % 30 PWM6 1 2.55 0 % 31 PWM8<	-
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46 Fluid Temp 2 1 1 -50 Deg C 47 VSS 2 256 0 MPH	-
47 VSS 2 256 0 MPH	
49 VSS2 2 256 0 MPH	
51 RPM 2 1 0 RPM	
53 Turbine Spd 2 1 0 RPM	
55 TCC Lock Percentage 1 2.55 0 %	
56 Line Pressure 1 2.55 0 %	
57 Accumulator Pressure 1 2.55 0 %	
58 Drive Shaft RPM 2 1 0 RPM	
60 TCC Slip 1 See Note See Note % 0-255 = 100 to -100, where 0 = 100 and 255 = -100	
61 VSS Slip 1 See Note See Note % 0-255 = 100 to -100, where 0 = 100 and 255 = -100	
62 Trans Slip 1 See Note See Note % 0-255 = 100 to -100, where 0 = 100 and 255 = -100	
63 Mode Status Flags 2 1 1 0 None See Below	
64 Measured Line Pressure 1 1 0 PSI 0-255 = 0-255psi	
65 Measured Accumulator Pressure 1 1 0 PSI 0-255 = 0-255psi	
66 Measured TCC Pressure 1 1 0 PSI 0-255 = 0-255psi	
67 Checksum 1 1 0	

Bit Mode Status Flags

- 1 = Full Throttle 0
- 1 = Manual Mode 1
- 2 0 = calibration1, 1 = calibration2
- 3 1 = Snow Mode/2nd gear start
- 1 = Cancel Overdrive 4
- 5 1 = Dyno Mode
- 6 1 = Cancel TCC lock up
- 7 1 = 4wd Low

Bit 0

2

3

Mode Status Flags 2 1 = Lockup TCC, 0 = TCC unlocked 1 = PWM lockup started 1

- 1 = Failure of AD detected
- 1 = Neutral or Park to drive , 0 = Neutral or Park to Reverse
- 1 = Upshift timer, 0 = downshift timer 4 5
 - 1 = Disengage TCC all the time
- 6 1 = True Manual Mode engaged 7
 - 1 = Simple Manual Mode engaged

See Checksum Calculation document for calculation.