

Dealer Test Mode Data

First Line Display	Second Line Display	Description
ENGINEERING	TEST MODE	Initial entry display into the self-test mode.
GAUGE	TEST	Carries out the gauge sweep of all gauges, then displays the present gauge values. Also carries out the checksum test on Read-Only Memory (ROM).
All segments	—	Carries out the prove-out of all dot matrix pixels in all characters.
TELLTALE	TEST	Illuminates all the microprocessor-controlled lamps and LEDs.
PART NUMBER	XXXX-XX	Return to normal operation of all microprocessor-controlled lamps/LEDs and displays the alpha-numeric prefix and suffix of the <u>IPC</u> part number.
<u>ROM</u> LEVEL	\$XXXX	Displays the hexadecimal Read-Only Memory (ROM) level and type.
<u>NVM ROM</u> LEVEL	\$XXXX	Displays the software release date in mm/dd/yy format stored in Non-Volatile Memory (NVM).
EEPROM LEVEL	\$XX	Displays the hexadecimal EE level. If an <u>NVM</u> checksum fault exists, the second line displays \$xxx FAIL.
MANUFACTURE	DATE XX/XX/XX	Displays hexadecimal coding of the final manufacturing test date.
B&A CONFIG	BYTE 1-6 \$XX	Displays hexadecimal coding of vehicle options <u>NVM</u> for lines 1 through 4 of As-Built data.
MANUF CONFIG	BYTE 1 \$XX	Displays hexadecimal coding of vehicle options <u>NVM</u> for line 1 of As-Built data for ABS/traction control/interactive vehicle dynamics, oil life threshold, Tire Pressure Monitoring System (TPMS) and Belt-Minder®.
CONTINUOUS	DTC \$XXXXXX	Displays DTCs in 16-bit hexadecimal format. DTCs displayed are those detected in continuous operation not during self-test. If no DTCs are present, the DTC: None is displayed.
VEHICLE SPEED	XXX.X MPH	Displays the English speed value being inputs in tenths of mph to the Instrument Panel Cluster (IPC), the speedometer indicates the present filtered speed. If the High Speed Controller Area Network (HS-CAN) message is missing, the second line displays ---. MPH. If the <u>HS-CAN</u> message is invalid, the second line displays INV MPH. If the vehicle speed input is an unknown value, UNKNOWN MPH is displayed.
VEHICLE SPEED	XXX.X km/h	Displays the metric speed value being inputs in tenths of km/h to the <u>IPC</u> , the speedometer indicates the present filtered speed. If the <u>HS-CAN</u> message is missing, the second line displays ---. km/h. If the <u>HS-CAN</u> message is invalid, the second line displays INVALID km/h. If the vehicle speed input is an unknown value, UNKNOWN km/h is displayed.
SPEEDOMETER	DC XXXX	Displays corresponding gauge driver counts output for present rpm value (0-4095).
TACHOMETER	XXXX RPM	Displays the tachometer value being input in rpm to the <u>IPC</u> . The tachometer indicates the present filtered rpm. If the <u>HS-CAN</u> message is missing, the second line displays ---. RPM. If the <u>HS-CAN</u> message is invalid, the second line displays INV RPM. If the engine speed input is an unknown value, UNKNOWN RPM is displayed.
TACHOMETER	DC XXXX	Displays corresponding gauge driver counts output for present rpm value (0-4095).
FUEL 1 LEVEL	XXX INSTANT	Displays the present primary (fuel pump module) unfiltered fuel level. 000-009 = short circuit. 010-254 = normal range. 255 = open. INV = invalid input.
FUEL 2 LEVEL	XXX INSTANT	Displays the present secondary (fuel level sender) unfiltered fuel level. 000-009 = short circuit. 010-254 = normal range. 255 = open. INV = invalid input.
FUEL 1 LEVEL %	STATUS XXX	Displays present filtered primary (fuel pump module) input for fuel level percent status. 000-254 = normal range. 0255= open or short circuit detected. INV = invalid input.
FUEL 2 LEVEL %	STATUS XXX	Displays present filtered secondary (fuel level sender) input for fuel level percent status. 000-254 = normal range. 0255= open or short circuit detected. INV = invalid input.
FUELCMB LEVEL %	STATUS XXX	Displays the present combined fuel level percent status in decimal (used by the gauge).
FUEL GAUGE	DC \$XX	Displays the present combined fuel level percent status in decimal (used by the gauge).
INSTANT DTE	XXX MILES	NOTE: This display may differ from the <u>DTE</u> displayed in the INFO menu of the message center due to the use of the unfiltered <u>DTE</u> calculation. --- = invalid input. Displays the calculated (unfiltered) Distance To Empty (DTE) in miles.
FUEL 1 ON/OFF/SZ	XXX XXX XXX	Displays the key on, key off, and zero speed samples for the fuel pump module. If the input is invalid, the message center displays --- --- ---.
FUEL 2 ON/OFF/SZ	XXX XXX XXX	Displays the key on, key off, and zero speed samples for the secondary fuel level input (fuel level sender). If the input is invalid, the message center displays --- --- ---.
F1 #S ON/OFF/SZ	XXX XXX XXX	Displays the number of valid samples used for key on, key off, and zero speed samples for the primary fuel level input (fuel pump module).
F2 #S ON/OFF/SZ	XXX XXX XXX	Displays the number of valid samples used for key on, key off, and zero speed samples for the secondary fuel level input (fuel level sender).

FUEL LEVEL	INIT REF \$XXXX	Displays the corresponding fuel gauge driver counts output for the filtered fuel level percent status value (0-4095).
COOLANT TEMP	XX C	Displays the last temperature gauge input value from the PCM over the <u>HS-CAN</u> in degrees C, temperature gauge indicates the present filtered temperature. If the temperature message is missing, the second line displays --- C. If the temperature message is invalid, the second line displays INV C.
COOLANT TEMP	DC \$XX	Displays the corresponding gauge driver counts output for the filtered temperature value (0-4095).
FAILSAFE	COOL MODE XX	Displays the last temperature gauge input value from the PCM over the <u>HS-CAN</u> in degrees C, temperature gauge indicates the present filtered temperature. If the temperature message is missing, the second line displays --- C. If the temperature message is invalid, the second line displays INV C.
ODOMETER	XXX COUNTS	Displays the unfiltered odometer rolling count input received over the <u>HS-CAN</u> from the PCM, in decimal. If the odometer rolling count data is missing, the second line displays --- COUNTS. If the odometer rolling count data is invalid, the second line displays INV counts.
TRIP ODOMETER	A XXXX.X mi	Displays the trip odometer A value stored in <u>RAM</u> in miles. If the trip A odometer rolling count data is missing or invalid for 5 seconds, the second line displays A ---.
TRIP ODOMETER	B XXXX.X mi	Displays the trip odometer B value stored in <u>RAM</u> in miles. If the trip B odometer rolling count data is missing or invalid for 5 seconds, the second line displays B ---.
BATTERY	XX.X VOLTS	Displays the present battery reading in volts at the <u>IPC</u> input pin.
BATTERY A/D	COUNTS XXX	Battery analog/digital counts. Displays present battery 10 bit analog/digital counts in decimal.
RUN/START	SENSE X	RUN/START sense circuit check. B = voltage detected (circuit is high). O = no voltage detected (circuit is open).
DIMMING LITVAL	XXX	Displays the lighting command message in percentage from the <u>SJB</u> over the <u>MS-CAN</u> . If the lighting command message is missing, the second line displays ---. If the lighting command message is invalid, the second line displays INV.
DIMMING DIMVAL	XXX	Displays the dimming command message in percentage from the <u>SJB</u> over the <u>MS-CAN</u> . If the dimming command message is missing, the second line displays ---. If the dimming command message is invalid, the second line displays INV.
DIMMING STEP	XXX	Displays the actual dimming output in steps from 0-21 (0 indicates dimming off) to the <u>IPC</u> backlighting.
DOOR AJAR	STATUS xx	Displays the door ajar status in hexadecimal code received from the <u>SJB</u> over the <u>MS-CAN</u> . If the door ajar status is missing, the message center displays --.
GEM INFO	STATUS XX	Displays the <u>MS-CAN SJB</u> information in hexadecimal. If the <u>SJB</u> message is missing, the second line displays STATUS --.
ABS INFO	STATUS XX	Displays the <u>HS-CAN</u> ABS module information in hexadecimal. If the ABS message is missing, the second line displays STATUS --.
PCM INFO	STATUS XX	Displays the <u>HS-CAN</u> PCM information in hexadecimal. If the PCM message is missing, the second line displays STATUS ----.
MC SWITCH	XXX RA/D CNTS	Displays current message center switch input analog/digital counts in decimal. 0-48 = short to ground. 49-228 = INFO button pressed. 229-465 = RESET. 466-724 = SETUP button pressed. 725-932 = no button pressed. 933-1023 = open circuit.
OPS	RA/D XX	Displays the hardwired engine oil pressure status in decimal received from the engine oil pressure switch. 0-615 = oil pressure switch open (low oil pressure). 820-1023 = oil pressure switch closed (normal oil pressure).
LAST CHIME	SOUNDED XXXX	Displays the last chime that sounded.
A/D PORT 2-9	XXX	Displays the 16 bit hexadecimal value of the port analog/digital reading.
DIGITAL INPUTS	PORT A, B, C XX	Displays 8 bit hexadecimal value of the digital port readings.
DIGITAL INPUTS	HET1 XXXX	Displays the 8 bit hexadecimal value of the port reading.
GAUGE	TEST GAUGE	Repeats the test display cycle.