

RADIO SCAN TOOL INFORMATION (...)

RADIO SCAN TOOL INFORMATION (WITH IO5/IO6) (VEHICLE DIAGNOSTIC INFORMATION)

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RADIO SCAN TOOL INFORMATION (WITH IO5/IO6) (VEHICLE DIAGNOSTIC INFORMATION)**Radio Scan Tool Data Parameters**

Parameter	Expected Value	Definition
Operating Conditions: Ignition ON		
Battery Voltage	Varies	The scan tool displays volts. This is the voltage at the input to the radio via high speed GMLAN.
System Power Mode	Run	The scan tool displays Off, Accessory, Run or Crank Request. This is the vehicle power mode status as received by the radio.
Date	Varies	The scan tool displays the current date set in the radio.
Time	Varies	The scan tool displays the current time set in the radio in 24 hour format HHMMSS
Radio Band	Varies	The scan tool displays AM, AM High Definition, FM, FM High Definition, Digital Audio broadcast, or XM. This is the broadcast radio band currently selected.
Audio Source Status	Varies	This parameter displays the currently selected audio source
Current FM Frequency	Varies	When tuned to an FM station, the scan tool displays the currently selected frequency in MHz
Current AM Frequency	Varies	When tuned to an AM station, the scan tool displays the currently selected frequency in kHz
Volume Control	Varies	The scan tools displays the current volume setting in counts.
Mute Status	Off	The scan tool displays On or Off. This is the currently selected audio mute mode.
Surround Sound	Varies	The scan tool displays On or Off. This is the currently selected surround sound mode.
Equalizer Preset	Varies	The scan tool displays the currently selected preset equalizer mode
Radio Power Button	On	The scan tool displays On or Off. This is the currently selected radio power mode.
Remote CD	Varies based on vehicle equipment	The scan tool displays Present or Not Present. This parameter displays present when the infotainment system is equipped with the remote cd player.
Rear Seat Entertainment	Varies based on vehicle equipment	The scan tool displays Present or Not Present. This parameter displays present when the infotainment system is equipped with the rear seat entertainment system.
Remote Enable Circuit	On	The scan tool displays On or Off. This is the current state of the remote enable output as commanded by the radio.

Front 3.5 mm AUX Input	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a device is connected to the front auxiliary input jack.
Rear 3.5 mm AUX Input	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a device is connected to the rear auxiliary input jack.
Front USB Receptacle	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a front USB receptacle is present.
Rear USB Receptacle	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a rear USB receptacle is present.
Front SD Card Receptacle	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a front SD card receptacle is present.
Rear SD Card Receptacle	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a rear SD card receptacle is present.
Radio Theft Lock Status	Unlocked	The scan tool displays Locked or Unlocked. This is the state of the theft lock system.
Theft Lock Armed	VIN Learned	The scan tool displays VIN Learned or No VIN. This is the state of the VIN programming in the radio.
Test Bench Mode	Inactive	The scan tool displays Active or Inactive. This is the state of the test bench mode.
Valet Mode	Inactive	The scan tool displays Active or Inactive. This is the state of the valet mode.
XM Subscription Status	Varies	This parameter displays the country and type of XM service.
High Definition Signal	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a high definition signal is being received.
Digital Audio Signal	Varies	The scan tool displays Present or Not Present. This parameter displays Present when a digital audio signal is being received.
Alternative Frequency Status	Varies	The scan tool displays Active or Inactive. This parameter displays Active if the radio is using an alternative frequency for a radio station broadcasting simultaneously from two different stations.
Last Working MOST ID of Node 1 (Master)	Radio	The scan tool displays the name of the ECU in the MOST BUS Node 1 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 2	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 2 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 3	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 3 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 4	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 4 position that was assigned when the MOST BUS was operational without any faults.

Last Working MOST ID of Node 5	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 5 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 6	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 6 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 7	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 7 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 8	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 8 position that was assigned when the MOST BUS was operational without any faults.
Last Working MOST ID of Node 9	Varies based on vehicle equipment	The scan tool displays the name of the ECU in the MOST BUS Node 9 position that was assigned when the MOST BUS was operational without any faults.
Surrogate MOST Master Node Upstream Position	Numeric	This parameter becomes available when DTC U0028 is current. The number identified is the device furthest upstream from the radio communicating on the MOST BUS when a communication fault is present.
Number of MOST Communication Breaks	Numeric	The number displayed increments each time the MOST BUS cannot communicate successfully.
Number of MOST Configuration Status Messages	Numeric	The number displayed increments each time a MOST BUS configuration status message is sent. A configuration status message is sent when the MOST BUS is initiated, including during or following a communication break.
Number of Short Term MOST Communication Breaks	Numeric	The number displayed increments each time the MOST BUS was temporarily unable to communicate successfully.
Diagnostic Data Identifier	Varies	The scan tool displays the 4 character alphanumeric device ID.
VIN Digits 2-17	Varies	The scan tool displays the learned VIN digits 2-17.
Manufacturer Enable Counter	0	The scan tool displays the counter value. This counter is used for manufacturing purposes only.
Boot Software Part Number	Varies	The scan tool displays the boot software ID number.
Diagnostic Data Identifier	Varies	Identifies a supplier and system specific data stream used by diagnostic testers to interpret a diagnostic data stream.
Calibration Part Number 1	Varies	The scan tool displays the software module ID 1.
Calibration Part Number 2	Varies	The scan tool displays the software module ID 2.

Calibration Part Number 3	Varies	The scan tool displays the software module ID 3.
Calibration Part Number 4	Varies	The scan tool displays the software module ID 4.
Calibration Part Number 5	Varies	The scan tool displays the software module ID 5.
Calibration Part Number 6	Varies	The scan tool displays the software module ID 6.
Calibration Part Number 7	Varies	The scan tool displays the software module ID 7.
Calibration Part Number 8	Varies	The scan tool displays the software module ID 8.
Calibration Part Number 9	Varies	The scan tool displays the software module ID 9.
Calibration Part Number 10	Varies	The scan tool displays the software module ID 10.
End Model Part Number	Varies	The scan tool displays the end model part number.
XM Electronic Serial Number	Varies	Identifies the integrated XM module serial number, if equipped.
HD Decoder Electronic Serial Number	Varies	Identifies the integrated HD decoder serial number, if equipped.
XM Firmware Version and Date	Varies	Identifies the XM module software version and release date, if equipped.
HD Decoder System Version	Varies	Identifies the HD decoder software version, if equipped.

Radio Scan Tool Output Controls

Scan Tool Output Control	Description
Active AM/FM Antenna	This output control will command the Active AM/FM Antenna ON and OFF.
Satellite Antenna	This output control will command the Satellite Antenna ON and OFF.
Digital Audio Broadcast Antenna Power	This output control will command the Digital Audio Broadcast Antenna ON and OFF.
MOST Communication Enable Circuit	This output control will command the MOST Communication Enable Circuit ON and OFF.
MOST Bus Diagnostic Starting Point	This output control will initiate the MOST Bus Diagnostic Starting Point Display.
Erase Valet Mode Code	This output control will command the Erase Valet Mode Code function.
Control Module Reset	This output control will command the reset of the Control Module.

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