

204-04B Tire Pressure Monitoring System (TPMS)
Diagnosis and Testing

2019 Ranger
Procedure revision date: 08/2/2018

Tire Pressure Monitoring System (TPMS)

DTC Chart: RTM

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices. REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

RTM DTC Chart

DTC	Description	Action
U0146:00	Lost Communication with Gateway "A": No Sub Type Information	GO to Pinpoint Test I
U0401:00	Invalid Data Received from ECM / PCM "A": No Sub Type Information	GO to Pinpoint Test K
U0401:82	Invalid Data Received from ECM / PCM "A": Alive / Sequence Counter Incorrect / Not Updated	GO to Pinpoint Test K
U1A00:00	Private Communication Network: No Sub Type Information	<ul style="list-style-type: none"> For concerns with the <u>RKE</u> transmitter and vehicle entry, REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing). For concerns with the <u>TPMS</u>, GO to Pinpoint Test J
U2100:00	Initial Configuration Not Complete: No Sub Type Information	GO to Pinpoint Test L
U3000:04	Control Module: System Internal Failure	GO to Pinpoint Test L

DTC Chart: BCM

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BCM DTC Chart

DTC	Description	Action
B1182:00	Tire Pressure Monitoring System: No Sub Type Information	GO to Pinpoint Test A
B1182:55	Tire Pressure Monitoring System: Not Configured	GO to Pinpoint Test M

B124D:02	Tire Pressure Sensor: General Signal Failure	GO to Pinpoint Test E
B1251:00	Tire Pressure Sensor Low Battery: No Sub Type Information	GO to Pinpoint Test C
B1254:51	Right Rear (Outside on Dual Wheel) Tire Pressure Sensor and Transmitter Assembly: Not Programmed	GO to Pinpoint Test M
B1255:51	Left Rear (Outside On Dual Wheel) Tire Pressure Sensor and Transmitter Assembly: Not Programmed	GO to Pinpoint Test M
C1A56:51	Left Front Tire Pressure Sensor and Transmitter Assembly: Not Programmed	GO to Pinpoint Test M
C1A58:51	Right Front Tire Pressure Sensor and Transmitter Assembly: Not Programmed	GO to Pinpoint Test M
—	All Other <u>BCM</u> Diagnostic Trouble Codes (DTCs)	REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).

Symptom Chart(s)

Symptom Chart: Tire Pressure Monitoring System

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Symptom Chart

Condition	Possible Sources	Actions
A module does not respond to the scan tool	<ul style="list-style-type: none"> • Fuse • Wiring, terminals or connectors • Communication network concern • <u>BCM</u> 	REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).
<u>TPMS</u> warning indicator is on continuously and the message center displays LOW TIRE PRESSURE	Refer to the Pinpoint Test	GO to Pinpoint Test E
<u>TPMS</u> warning indicator is on continuously and the message center does not display LOW TIRE PRESSURE	Diagnostic Trouble Codes (DTCs) present in the <u>BCM</u> or <u>RTM</u>	GO to Pinpoint Test G
The <u>BCM</u> will not enter <u>TPMS</u> sensor training mode	Refer to the Pinpoint Test	GO to Pinpoint Test F
The <u>TPMS</u> warning indicator is never or always on	<ul style="list-style-type: none"> • Communication network concern • <u>IPC</u> 	REFER to: Instrumentation, Message Center and Warning Chimes (413-01)

		Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).
One or more <u>TPMS</u> sensors do not train and no Diagnostic Trouble Codes (DTCs) are present	Refer to the Pinpoint Test	GO to Pinpoint Test H

Pinpoint Tests

- ▶ [PINPOINT TEST A : B1182:00](#)
- ▶ [PINPOINT TEST B : B124D:02](#)
- ▶ [PINPOINT TEST C : B1251:00](#)
- ▶ [PINPOINT TEST D : DIAGNOSING RADIO FREQUENCY INTERFERENCE FAULTS](#)
- ▶ [PINPOINT TEST E : TPMS \(TIRE PRESSURE MONITORING SYSTEM\) WARNING INDICATOR IS ON CONTINUOUSLY AND THE MESSAGE CENTER DISPLAYS LOW TIRE PRESSURE](#)
- ▶ [PINPOINT TEST F : THE BCM \(BODY CONTROL MODULE\) WILL NOT ENTER TPMS \(TIRE PRESSURE MONITORING SYSTEM\) SENSOR TRAINING MODE](#)
- ▶ [PINPOINT TEST G : TPMS \(TIRE PRESSURE MONITORING SYSTEM\) WARNING INDICATOR IS ON CONTINUOUSLY AND THE MESSAGE CENTER DOES NOT DISPLAY LOW TIRE PRESSURE](#)
- ▶ [PINPOINT TEST H : ONE OR MORE TPMS \(TIRE PRESSURE MONITORING SYSTEM\) SENSORS DO NOT TRAIN AND NO DIAGNOSTIC TROUBLE CODES \(DTCS\) ARE PRESENT](#)
- ▶ [PINPOINT TEST I : U0146:00](#)
- ▶ [PINPOINT TEST J : U1A00:00](#)
- ▶ [PINPOINT TEST K : U0401:00, U0401:82](#)
- ▶ [PINPOINT TEST L : U2100:00, U3000:04](#)
- ▶ [PINPOINT TEST M : B1182:55, B1254:51, B1255:51, C1A56:51 OR C1A58:51](#)

