

General Information - Diagnostic Trouble Code (DTC) Index DTC: Module Name: Transfer Case Control Module

Description and Operation

Transfer Case Control Module (TCCM)



CAUTION: Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

NOTES:



If the control module or a component is suspect and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual (section B1.2), or determine if any prior approval programme is in operation, prior to the installation of a new module/component.



Generic scan tools may not read the codes listed, or may read only 5-digit codes. Match the 5 digits from the scan tool to the first 5 digits of the 7-digit code listed to identify the fault (the last 2 digits give extra information read by the manufacturer-approved diagnostic system).



When performing voltage or resistance tests, always use a digital multimeter accurate to three decimal places, and with an up-to-date calibration certificate. When testing resistance always take the resistance of the digital multimeter leads into account.



Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.



Inspect connectors for signs of water ingress, and pins for damage and/or corrosion.



If DTCs are recorded and, after performing the pinpoint tests, a fault is not present, an intermittent concern may be the cause. Always check for loose connections and corroded terminals.
















Check DDW for open campaigns. Refer to the corresponding bulletins and SSMs which may be valid for the specific customer complaint and carry out the recommendations as required.







The table below lists all Diagnostic Trouble Codes (DTCs) that could be logged in the Transfer Case Control Module (TCCM). For additional diagnosis and testing information, refer to the relevant Diagnosis and Testing section in the workshop manual







For additional information, refer to: Transfer Case (308-07 Transfer Case, Diagnosis and Testing).







DTC	Description	Possible Causes	Action
P0560-00	System Voltage - No sub type information	<ul style="list-style-type: none"> Transfer case control module power or ground circuit open circuit, high resistance Battery/charging system fault Transfer case control module internal failure 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111). Refer to the electrical circuit diagrams and check the transfer case control module power and ground circuits for open circuit, high resistance Refer to the relevant section of the workshop manual and test the battery and charging system Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0561-00	System Voltage Unstable - No sub type information	<ul style="list-style-type: none"> Transfer case control module power or ground circuit open circuit, high resistance Battery/charging system fault Transfer case control module internal failure 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111). Refer to the electrical circuit diagrams and check the transfer case control module power and ground circuits for open circuit, high resistance Refer to the relevant section of the workshop manual and test the battery and charging system Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0562-00	System Voltage Low - No sub type information	<ul style="list-style-type: none"> Transfer case control module power or ground circuit open circuit, high resistance 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111). Refer to the electrical circuit diagrams and check the transfer case control module power and ground circuits for open circuit, high resistance






		<ul style="list-style-type: none"> Battery/charging system fault Transfer case control module internal failure 	<ul style="list-style-type: none"> Refer to the relevant section of the workshop manual and test the battery and charging system Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0563-00	System Voltage High - No sub type information	<ul style="list-style-type: none"> Battery/charging system fault 	 NOTE: This DTC may be set when the vehicle is jump started. <ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111). Refer to the relevant section of the workshop manual and test the battery and charging system
P0607-00	Control Module Performance - No sub type information	<ul style="list-style-type: none"> Transfer case control module internal failure 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0634-00	PCM / ECM / TCM Internal Temperature A Too High - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure 	<p>NOTES:</p>  Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.
			 This DTC may be induced by excessive high/low range changes.
			 This DTC may be induced by prolonged off-road driving. <ul style="list-style-type: none"> Allow the vehicle to cool. Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0641-00	Sensor Reference Voltage A Circuit - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure 	 NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms. <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0642-00	Sensor Reference Voltage A Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground Transfer case control module internal failure 	 NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms. <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0643-00	Sensor Reference Voltage A Circuit High - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short 	 NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V,






	information	<ul style="list-style-type: none"> circuit to power Transfer case control module internal failure 	<p>resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0652-00	Sensor Reference Voltage B Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case selector fork position sensor circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0653-00	Sensor Reference Voltage B Circuit High - No sub type information	<ul style="list-style-type: none"> Transfer case selector fork position sensor circuit short circuit to power Transfer case control module internal failure 	<p> NOTE: Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0666-00	PCM/ECM/TCM Internal Temperature Sensor 'A' Circuit - No sub type information	<ul style="list-style-type: none"> Transfer case solenoid circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Allow the vehicle to cool. Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0702-00	Transmission Control System Electrical - No sub type information	<ul style="list-style-type: none"> Transfer case control module power or ground circuit open circuit, high resistance Battery/charging system fault 	<p> NOTE: This DTC may be set during a forced reset by the manufacturer approved diagnostic system.</p> <ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111). Refer to the electrical circuit diagrams and check the transfer case control module power and ground circuits for open circuit, high resistance Refer to the relevant section of the workshop manual and test the battery and charging system
P0712-00	Transmission Fluid Temperature Sensor A Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case motor temperature sensor circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case motor temperature sensor (temperature signal circuit to motor position sensor ground circuit) resistance should be 1.0k ohms to 30.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor temperature sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0713-00	Transmission Fluid Temperature Sensor A Circuit	<ul style="list-style-type: none"> Transfer case motor temperature sensor circuit short 	<p> NOTE: Transfer case motor temperature sensor (temperature signal circuit to motor position sensor ground</p>









	High - No sub type information	<ul style="list-style-type: none"> circuit to power Transfer case control module internal failure 	<p>circuit) resistance should be 1.0k ohms to 30.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor temperature sensor circuit for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0780-00	Shift Malfunction - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure Transfer case internal failure 	<p>NOTES:</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement
P0806-00	Clutch Position Sensor Circuit Range/Performance - No sub type information	<ul style="list-style-type: none"> Transfer case selector fork position sensor not calibrated Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case selector fork position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case selector fork position sensor failure Transfer case control module internal failure Transfer case internal failure 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <p> Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, perform routine - Transfer Case Replacement. Clear the DTCs and retest Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system,







			<p>clear the DTCs and retest. If the fault persists, install a new transfer case selector fork position sensor and perform routine - Transfer Case Replacement</p> <ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement
P0807-00	Clutch Position Sensor Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0808-00	Clutch Position Sensor Circuit High - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0826-00	Up and Down Switch Circuit - No sub type information	<ul style="list-style-type: none"> Transfer case high/low range switch stuck active Transfer case high/low range switch signal circuit short circuit to power Transfer case control module internal failure 	<p>NOTES:</p> <p> This DTC will be set if the switch signal is active for > 255 seconds.</p> <p> This DTC may be induced by the driver.</p> <ul style="list-style-type: none"> Check the operation of the transfer case high/low range switch Using the manufacturer approved diagnostic system, check datalogger signal - TCCM Input Status (0x1983). Refer to the electrical circuit diagrams and check the transfer case high/low range switch signal circuits for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0900-00	Clutch Actuator Circuit/Open - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure 	<p> NOTE: Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0902-00	Clutch Actuator Circuit - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open 	<p> NOTE: Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the







		<ul style="list-style-type: none"> circuit, high resistance Transfer case control module internal failure 	<ul style="list-style-type: none"> transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0903-00	Clutch Actuator Circuit - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure 	 <p>NOTE: Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0915-00	Gear Shift Position Circuit Range/Performance - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case selector fork position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case selector fork position sensor failure Transfer case motor failure Transfer case control module internal failure 	<p>NOTES:</p>  <p>If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p>  <p>Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p>  <p>Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case selector fork position sensor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0916-00	Gear Shift Position Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case selector fork position sensor circuit short circuit to ground Transfer case control module internal failure 	 <p>NOTE: Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P0917-00	Gear Shift Position Circuit High - No sub type information	<ul style="list-style-type: none"> Transfer case selector fork position sensor circuit short circuit to power Transfer case control module internal failure 	 <p>NOTE: Transfer case selector fork position sensor voltage (supply circuit to ground circuit) should be 4.0V to 6.0V.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case selector fork position sensor circuit for short circuit to power Using the manufacturer approved diagnostic system,







			clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P173A-00	Clutch Actuator Position Sensor Circuit Range/Performance - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case control module internal failure 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P173B-00	Clutch Actuator Position Sensor Circuit Low - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground Transfer case control module internal failure 	<p> NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P173C-00	Clutch Actuator Position Sensor Circuit High - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to power Transfer case control module internal failure 	<p> NOTE: Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P1804-00	4-Wheel Drive High Indicator Circuit Failure - No sub type information	<ul style="list-style-type: none"> Transfer case high range LED circuit short circuit to ground, open circuit, high resistance 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case high range LED circuit for short circuit to ground, open circuit, high resistance
P1806-00	4-Wheel Drive High Indicator Short Circuit To Battery - No sub type information	<ul style="list-style-type: none"> Transfer case high range LED circuit short circuit to power 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case high range LED circuit for short circuit to power

P1807-00	4-Wheel Drive High Indicator Short Circuit To Ground - No sub type information	<ul style="list-style-type: none"> Transfer case high range LED circuit short circuit to ground 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case high range LED circuit for short circuit to ground
P1808-00	4-Wheel Drive Low Indicator Circuit Failure - No sub type information	<ul style="list-style-type: none"> Transfer case low range LED circuit short circuit to ground, open circuit, high resistance 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case low range LED circuit for short circuit to ground, open circuit, high resistance
P1810-00	4-Wheel Drive Low Indicator Short Circuit To Battery - No sub type information	<ul style="list-style-type: none"> Transfer case low range LED circuit short circuit to power 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case low range LED circuit for short circuit to power
P181B-00	Clutch Actuator Changeover Solenoid Low - No sub type information	<ul style="list-style-type: none"> Transfer case solenoid circuit short circuit to ground Transfer case control module internal failure 	 NOTE: Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms. <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P181C-00	Clutch Actuator Changeover Solenoid High - No sub type information	<ul style="list-style-type: none"> Transfer case solenoid circuit short circuit to power Transfer case control module internal failure 	 NOTE: Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms. <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to power Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P181D-00	Clutch Actuator Changeover Solenoid Range/Performance - No sub type information	<ul style="list-style-type: none"> Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case solenoid circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case solenoid failure Transfer case control module internal failure Transfer case internal failure 	<p>NOTES:</p>  If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.  Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.  Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.

			a new transfer case and perform routine - Transfer Case Replacement
P181E-00	Clutch Actuator Range/Performance - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case solenoid circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case solenoid failure Transfer case control module internal failure Transfer case internal failure 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <p> Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case solenoid and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement
P181F-00	Clutch Control System Performance - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case solenoid circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure Transfer case motor failure 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <p> Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short

		<ul style="list-style-type: none"> Transfer case solenoid failure Transfer case internal failure 	<p>circuit to ground, short circuit to power, open circuit, high resistance</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case solenoid and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement
P183A-00	Range Change Mechanism Failure - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case control module internal failure Transfer case internal failure Transmission fault - High drag torque in Neutral 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> If any transmission control module DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement Refer to the relevant section of the workshop manual and test the transmission
P186D-00	Clutch Actuator Stuck - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p>

		<p>circuit, high resistance</p> <ul style="list-style-type: none"> Transfer case solenoid circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case control module internal failure Transfer case internal failure 	<p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <p> Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement
P2711-00	Unexpected Mechanical Gear Disengagement - No sub type information	<ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case motor failure Transfer case control module internal failure Transfer case internal failure Transmission fault - High drag torque in Neutral 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> If any transmission control module DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case motor and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case and perform routine - Transfer Case Replacement Refer to the relevant section of the workshop manual and test the transmission
P2785-	Clutch Actuator	<ul style="list-style-type: none"> Transfer case 	<p>NOTES:</p>

00	Temperature Too High - No sub type information	<p>motor temperature too high (> 150°C)</p> <ul style="list-style-type: none"> Transfer case motor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case control module internal failure 	<p> Transfer case motor resistance should be 0.2 ohms to 10.0 ohms.</p> <p> This DTC may be induced by prolonged off-road driving.</p> <ul style="list-style-type: none"> Allow the vehicle to cool. Using the manufacturer approved diagnostic system, clear the DTCs and retest Refer to the electrical circuit diagrams and check the transfer case motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
P2787-00	Clutch Temperature Too High - No sub type information	<ul style="list-style-type: none"> Transfer case clutch temperature too high Incorrect specification wheels/tires installed - Mismatch between axle speeds Front/rear driveshaft failure Front/rear differential failure Front/rear left/right halfshaft failure 	<p> NOTE: This DTC may be induced by prolonged off-road driving.</p> <ul style="list-style-type: none"> Allow the vehicle to cool. Using the manufacturer approved diagnostic system, clear the DTCs and retest Check the wheel and tire specifications Check the integrity of the front and rear driveshafts Check the integrity of the front and rear differentials Check the integrity of the halfshafts
P2789-00	Clutch Adaptive Learning at Limit - No sub type information	<ul style="list-style-type: none"> Transfer case clutch not calibrated Transfer case motor position sensor circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case solenoid circuit short circuit to ground, short circuit to power, open circuit, high resistance Transfer case fluid contaminated with water Transfer case clutch worn/burnt Transfer case control module internal failure 	<p>NOTES:</p> <p> If additional transfer case circuit fault related DTCs are also set, perform the relevant corrective action(s) first and retest.</p> <p> Transfer case motor position sensor voltage (sensor supply to sensor ground) should be 8V to 11V, resistance (signal A circuit to ground circuit) should be 16.0k ohms to 20.0k ohms and resistance (signal B circuit to ground circuit) should be 16.0k ohms to 20.0k ohms.</p> <p> Transfer case solenoid resistance should be 0.2 ohms to 10.0 ohms.</p> <ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, perform routine - Transfer Case Replacement Refer to the electrical circuit diagrams and check the transfer case motor position sensor circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the electrical circuit diagrams and check the transfer case solenoid circuit for short circuit to ground, short circuit to power, open circuit, high resistance Refer to the relevant section of the workshop manual and check the transfer case fluid level/condition. If water is present in the fluid, check the integrity of the transfer case breather and install a new transfer case and perform routine - Transfer Case Replacement Check the integrity of the driveshafts, differentials and half shafts. Rectify as necessary and install a new transfer case and perform routine - Transfer Case Replacement Using the manufacturer approved diagnostic system, perform routine - Transfer Case Replacement. Clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
U0001-88	High Speed CAN Communication Bus	<ul style="list-style-type: none"> High speed CAN bus circuit short 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the

	- Bus off	circuit to ground, short circuit to power, open circuit, high resistance	electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance
U0100-00	Lost Communication With ECM/PCM "A" - No sub type information	<ul style="list-style-type: none"> Engine control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Engine system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the engine control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the engine control module for related DTCs and refer to the relevant DTC index
U0101-00	Lost Communication with TCM - No sub type information	<ul style="list-style-type: none"> Transmission control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Transmission system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the transmission control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the transmission control module for related DTCs and refer to the relevant DTC index
U0121-00	Lost Communication With Anti-Lock Brake System (ABS) Control Module - No sub type information	<ul style="list-style-type: none"> Anti-lock brake system control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Anti-lock brake system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the anti-lock brake system control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the anti-lock brake system control module for related DTCs and refer to the relevant DTC index
U0126-00	Lost Communication With Steering Angle Sensor Module - No sub type information	<ul style="list-style-type: none"> Steering angle sensor module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Steering angle sensor system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the steering angle sensor module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the steering angle sensor module for related DTCs and refer to the relevant DTC index
U0128-00	Lost Communication With Park Brake Control Module - No sub type information	<ul style="list-style-type: none"> Electric park brake control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Electric park brake system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the electric park brake control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the electric park brake control module for related DTCs and refer to the relevant DTC index

U0132-00	Lost Communication With Suspension Control Module "A" - No sub type information	<ul style="list-style-type: none"> Air suspension control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Air suspension system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the air suspension control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the air suspension control module for related DTCs and refer to the relevant DTC index
U0136-00	Lost Communication With Differential Control Module - Rear - No sub type information	<ul style="list-style-type: none"> Rear differential control module power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Rear differential system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the rear differential control module power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the rear differential control module for related DTCs and refer to the relevant DTC index
U0138-00	Lost Communication with All Terrain Control Module - No sub type information	<ul style="list-style-type: none"> Terrain response switchpack power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Terrain response system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the terrain response switchpack power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the terrain response switchpack for related DTCs and refer to the relevant DTC index
U0140-00	Lost Communication With Body Control Module - No sub type information	<ul style="list-style-type: none"> Central junction box power or ground circuit open circuit, high resistance High speed CAN bus circuit short circuit to ground, short circuit to power, open circuit, high resistance Central junction box system fault 	<ul style="list-style-type: none"> Refer to the electrical circuit diagrams and check the central junction box power and ground circuits for open circuit, high resistance Using the manufacturer approved diagnostic system, perform a CAN network integrity test. Refer to the electrical circuit diagrams and check the high speed CAN bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance Using the manufacturer approved diagnostic system, check the central junction box for related DTCs and refer to the relevant DTC index
U0300-00	Internal Control Module Software Incompatibility - No sub type information	<ul style="list-style-type: none"> Transfer case control module is not configured correctly Incorrect transfer case control module installed 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, re-configure the transfer case control module with the latest level software Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
U0401-00	Invalid Data Received From ECM/PCM A - No sub type information	<ul style="list-style-type: none"> Missing/invalid data from the engine control module 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check the engine control module for related DTCs and refer to the relevant DTC index
U0402-00	Invalid Data Received from TCM - No sub type information	<ul style="list-style-type: none"> Missing/invalid data from the transmission control module 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check the transmission control module for related DTCs and refer to the relevant DTC index
U0415-00	Invalid Data Received From Anti-	<ul style="list-style-type: none"> Missing/invalid data from the anti- 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check the anti-lock brake system control module for

	Lock Brake System (ABS) Control Module - No sub type information	lock brake system control module	related DTCs and refer to the relevant DTC index
U0417-00	Invalid Data Received From Park Brake Control Module - No sub type information	<ul style="list-style-type: none"> Missing/invalid data from the electric park brake control module 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check the electric park brake control module for related DTCs and refer to the relevant DTC index
U0428-00	Invalid Data Received From Steering Angle Sensor Module - No sub type information	<ul style="list-style-type: none"> Missing/invalid data from the steering angle sensor module 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check the steering angle sensor module for related DTCs and refer to the relevant DTC index
U3000-55	Control Module - Not configured	<ul style="list-style-type: none"> Car configuration file mismatch with vehicle specification Incorrect transfer case control module installed 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check and up-date the car configuration file as necessary Using the manufacturer approved diagnostic system, clear the DTCs and retest. If the fault persists, install a new transfer case control module and perform routine - Transfer Case Replacement
U3003-62	Battery Voltage - Signal compare failure	<ul style="list-style-type: none"> Mismatch between the voltage at the transfer case control module and the voltage value broadcast on the CAN bus 	<ul style="list-style-type: none"> Using the manufacturer approved diagnostic system, check datalogger signal - ECU Power Supply Voltage (0xD111) - and compare it to battery voltage. Refer to the electrical circuit diagrams and check the transfer case control module power and ground circuits for open circuit, high resistance