

Chassis ECM Diagnostic Trouble Codes

Diagnostic Trouble Codes (DTCs) are logged in the chassis ECM memory when there is a confirmed fault in the system.

The codes are reported to the Triumph diagnostic tool as a four digit code.

As mentioned earlier, when the system detects a fault, it begins to count the number of times the fault occurs before confirming the fault and storing a fault code. A confirmed fault may be indicated by the effected system(s) simply becoming inoperative, or by the illumination of a system warning light and/or instrument warning message.

Similarly, if a fault clears, the chassis ECM also records this fact and will extinguish any warning lights or instrument messages and restore normal operation to the affected system, when sufficient no-fault ignition switch cycles have taken place. Any fault codes will remain in the chassis ECM memory until the required number of no-fault ignition switch cycles have taken place. The number of ignition switch cycles required to restore normal operation will always be less than the number required to remove a DTC from the chassis ECM memory. DTCs can be removed at any time using the Triumph diagnostic tool.

The system will log the diagnostic trouble codes listed below:

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1001	Main power supply overvoltage	1	20	-	Power Supply Rail Overvoltage/Undervoltage
C1002	Main power supply undervoltage	1	20	-	Power Supply Rail Overvoltage/Undervoltage
C1009	Ambient temperature sensor signal under temperature	1	20	Blank or incorrect air temperature display	Ambient Air Temperature Sensor
C1010	Ambient temperature sensor signal over temperature	1	20	Blank or incorrect air temperature display	Ambient Air Temperature Sensor
C1011	Swinging arm position sensor signal low	1	40	TSAS light/warning message	Swinging Arm Position Sensor Signal
C1012	Swinging arm position sensor signal high	1	40	TSAS light/warning message	Swinging Arm Position Sensor Signal

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1013	Swinging arm position sensor signal implausible	1	40	TSAS light/warning message	Swinging Arm Position Sensor Signal
C1017	Instrument wake-up signal overcurrent	1	40	-	Instrument Wake-up Signal Overcurrent
C1022	Rear rebound damping solenoid undercurrent	1	40	TSAS light/warning message	Rear Suspension Unit Damping Solenoid Undercurrent/Overcurrent
C1023	Rear rebound damping solenoid overcurrent	1	40	TSAS light/warning message	Rear Suspension Unit Damping Solenoid Undercurrent/Overcurrent
C1024	Windscreen motor undercurrent	1	20	-	Windscreen Motor Undercurrent/Overcurrent
C1025	Windscreen motor overcurrent	1	20	-	Windscreen Motor Undercurrent/Overcurrent
C1027	5V sensor supply malfunction	1	40	TSAS light/warning message	5 Volt Sensor Supply
C1028	Preload motor undercurrent	1	40	TSAS light/warning message	Rear Suspension Unit (RSU) Preload Motor
C1029	Preload motor overcurrent	1	40	TSAS light/warning message	Rear Suspension Unit (RSU) Preload Motor
C1031	Left headlight (high beam) undercurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1032	Left headlight (high beam) overcurrent	1	40	-	Headlight Undercurrent/Overcurrent

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1033	Right headlight (high beam) undercurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1034	Right headlight (high beam) overcurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1035	Left headlight (low beam) undercurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1036	Left headlight (low beam) overcurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1037	Right headlight (low beam) undercurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1038	Right headlight (low beam) overcurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1042	Fog lights undercurrent	1	40	-	Fog Lights Undercurrent/Overcurrent
C1043	Left and right fog light overcurrent	1	40	-	Fog Lights Undercurrent/Overcurrent
C1044	Front position light undercurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1045	Front position light overcurrent	1	40	-	Headlight Undercurrent/Overcurrent
C1046	Rear light undercurrent	1	40	-	Rear Light Undercurrent/Overcurrent
C1047	Rear light overcurrent	1	40	-	Rear Light Undercurrent/Overcurrent

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1050	Brake light undercurrent	1	40	-	Brake Light Undercurrent/Overcurrent
C1051	Brake light overcurrent	1	40	-	Brake Light Undercurrent/Overcurrent
C1052	Left front direction indicator undercurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1053	Left front direction indicator overcurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1054	Left rear direction indicator undercurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1055	Left rear direction indicator overcurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1056	Right front direction indicator undercurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1057	Right front direction indicator overcurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1058	Right rear direction indicator undercurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent
C1059	Right rear direction indicator overcurrent	1	40	Remaining direction indicators flash at a faster rate	Direction Indicators Undercurrent/Overcurrent

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1060	Horn undercurrent	1	40	-	Horn Undercurrent/Overcurrent
C1061	Horn overcurrent	1	40	-	Horn Undercurrent/Overcurrent
C1062	Rider heated seat undercurrent	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Rider Heated Seat Undercurrent/Overcurrent
C1063	Rider heated seat overcurrent	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Rider Heated Seat Undercurrent/Overcurrent
C1064	Passenger heated seat undercurrent	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Passenger Heated Seat Undercurrent/Overcurrent
C1065	Passenger heated seat overcurrent	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Passenger Heated Seat Undercurrent/Overcurrent
C1066	Right heated grip undercurrent	1	40	Heated grip symbol displayed on instruments but heat level indicators empty	Heated Grips Undercurrent/Overcurrent
C1067	Right heated grip overcurrent	1	40	Heated grip symbol displayed on instruments but heat level indicators empty	Heated Grips Undercurrent/Overcurrent
C1068	Left heated grip undercurrent	1	40	Heated grip symbol displayed on instruments but heat level indicators empty	Heated Grips Undercurrent/Overcurrent

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1069	Left heated grip overcurrent	1	40	Heated grip symbol displayed on instruments but heat level indicators empty	Heated Grips Undercurrent/Overcurrent
C1070	Cooling fan undercurrent	1	40	MIL* (and coolant temperature warning light if fault long term)	Cooling Fan Undercurrent/Overcurrent
C1071	Cooling fan overcurrent	1	40	MIL* (and coolant temperature warning light if fault long term)	Cooling Fan Undercurrent/Overcurrent
C1072	Fuel pump undercurrent	1	40	MIL*	Fuel Pump Undercurrent/Overcurrent
C1073	Fuel pump overcurrent	1	40	MIL*	Fuel Pump Undercurrent/Overcurrent
C1074	Universal Serial Bus (USB) power socket overcurrent	1	40	-	Universal Serial Bus (USB) Power Socket Overcurrent
C1075	Passenger accessory power socket overcurrent	1	40	-	Passenger Accessory Power Socket Overcurrent
C1076	Top box accessory power socket overcurrent	1	40	-	Top Box Accessory Power Socket Overcurrent
C1077	Starter motor solenoid undercurrent	1	40	MIL*	Starter Motor Solenoid Undercurrent/Overcurrent
C1078	Starter motor solenoid overcurrent	1	40	MIL*	Starter Motor Solenoid Undercurrent/Overcurrent

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1079	TSAS - Solenoid valves implausible signal	1	40	TSAS light/warning message	TSAS Error
C1081	Rear preload motor circuit malfunction	1	40	TSAS light/warning message	Rear Suspension Unit (RSU) Preload Motor
C1082	Rear preload motor adjustment prevented due to low battery voltage	1	40	-	Rear Suspension Unit (RSU) Preload Motor
C1083	Rear preload motor position error - motor travel during initialisation procedure was outside normal limits	1	40	TSAS light/warning message	Rear Suspension Unit (RSU) Preload Motor
C1084	Rear preload motor position error - motor end of travel position error	1	40	TSAS light/warning message	Rear Suspension Unit (RSU) Preload Motor
C1087	CAN fault - lost communication with instruments	1	40	-	Instrument Communication (CAN)
C1088	CAN fault - lost communication with ABS module	1	40	-	ABS Communication (CAN)
C1089	Inertial Measurement Unit (IMU) ID incompatible	1	40	TSAS light/warning message	Inertial Measurement Unit (IMU) ID Incompatible

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1090	CAN fault - lost communication with Inertial Measurement Unit (IMU)	1	40	TSAS light/warning message	Inertial Measurement Unit (IMU) Signal (CAN)
C1091	CAN fault - lost communication with Engine ECM	1	40	TSAS light/warning message	Engine ECM Communication (CAN)
C1092	Inertial Measurement Unit (IMU)	1	40	TSAS light/warning message	Inertial Measurement Unit (IMU) Signal (CAN)
C1097	Front wheel sensor unit battery alert	1	20	Information message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors
C1098	Rear wheel sensor unit battery alert	1	20	Information message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors
C1099	Front wheel sensor unit fault	1	20	TPMS light/warning message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors
C1100	Rear wheel sensor unit fault	1	20	TPMS light/warning message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors
C1101	Front wheel sensor unit loss of communication error	1	20	TPMS light/warning message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors
C1102	Rear wheel sensor unit loss of communication error	1	20	TPMS light/warning message	Tyre Pressure Monitoring System (TPMS) Wheel Sensors

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1103	Immobiliser antenna - loss of communication with key	1	20	Alarm/immobiliser light	Immobiliser Antenna
C1104	Invalid key: key authentication unsuccessful	1	20	Alarm/immobiliser light	Immobiliser Antenna
C1105	Immobiliser antenna internal error	1	20	Alarm/immobiliser light	Immobiliser Antenna
C1106	No engine ECM immobiliser communication	1	20	Alarm/immobiliser light	Engine ECM Communication (CAN)
C1107	TSAS - Inertial Measurement Unit (IMU) implausible signal	1	40	TSAS light/warning message	Inertial Measurement Unit (IMU) Signal (CAN)
C1108	TSAS - ABS implausible signal	1	40	TSAS light/warning message	ABS Communication (CAN)
C1109	TSAS - engine ECM implausible signal	1	40	TSAS light/warning message	Engine ECM Communication (CAN)
C1110	TSAS general error	-	-	TSAS light/warning message	TSAS Error
C1111	Rider heated seat switch malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Rider Heated Seat Switch

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1112	Rider heated seat switch position one malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Rider Heated Seat Switch
C1113	Rider heated seat switch position two malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Rider Heated Seat Switch
C1114	Passenger heated seat switch malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Passenger Heated Seat Switch
C1115	Passenger heated seat switch position one malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Passenger Heated Seat Switch
C1116	Passenger heated seat switch position two malfunction	1	40	Heated seat symbol displayed on instruments but heat level indicators empty	Passenger Heated Seat Switch
C1117	Left fork stepper motor undercurrent	1	40	TSAS light/warning message	Left Fork Stepper Motor (Compression Damping)
C1118	Left fork stepper motor (compression) driver error	1	40	TSAS light/warning message	Left Fork Stepper Motor (Compression Damping)
C1119	Left fork stepper motor overcurrent	1	40	TSAS light/warning message	Left Fork Stepper Motor (Compression Damping)
C1120	Right fork stepper motor undercurrent	1	40	TSAS light/warning message	Right Fork Stepper Motor (Rebound Damping)

Diagnostic Trouble Code (DTC)	Fault Description	Ignition Switch Cycles Before Clearing Fault	Ignition Switch Cycles Before DTC is Erased	Warning Light/Instrument Message/Visual Indication	Pinpoint Test
C1121	Right fork stepper motor (rebound) driver error	1	40	TSAS light/warning message	Right Fork Stepper Motor (Rebound Damping)
C1122	Right fork stepper motor overcurrent	1	40	TSAS light/warning message	Right Fork Stepper Motor (Rebound Damping)
C1124	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1125	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1126	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1127	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1128	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1129	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error
C1130	Chassis ECM internal error	1	40	-	Chassis ECM Internal Error

* MIL illuminated by engine ECM in response to chassis ECM DTC being stored.

TSAS Error

Fault Code	Possible Cause	Action
C1079	TSAS - Solenoid valves implausible signal	Contact Triumph service
C1110	TSAS general error	Download latest chassis ECM software If fault still present, contact Triumph service