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2005.0 DISCOVERY 3, 204-05

VEHICLE DYNAMIC SUSPENSION (G553425)

PRINCIPLE OF OPERATION

For information on the operation of the system, refer to relevant section 204-05 - Vehicle Dynamic Suspension of the workshop manual.

INSPECTION AND VERIFICATION

1. Verify the customer concern.
2. Confirm which, if any, warning lights and/or messages were displayed on the instrument cluster. For a list of messages, Refer to the relevant section of the workshop manual.
3. Visually inspect for obvious mechanical or electrical faults.

Visual inspection

MECHANICAL	ELECTRICAL
<ul style="list-style-type: none"> ▪ Air leakage ▪ Air springs ▪ Reservoir ▪ Compressor ▪ Compressor air filter ▪ Pipework and unions ▪ Sensor installation ▪ Valve block(s) 	<ul style="list-style-type: none"> ▪ Battery ▪ Fuse(s) ▪ Wiring harness physical damage or water ingress ▪ Loose or corroded electrical connectors ▪ Air suspension control switch ▪ Controller area network (CAN) circuits ▪ Sensors ▪ Valve block(s) ▪ Air suspension control module

4. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
5. Use the approved diagnostic system or a scan tool to retrieve any diagnostic trouble codes (DTCs) before moving onto the symptom chart or DTC index.
 - Make sure that all DTCs are cleared following rectification.

SYMPTOM CHART

SYMPTOM	POSSIBLE MESSAGE	POSSIBLE OTHER WARNINGS	POSSIBLE CAUSES	ACTION
Vehicle on bump stops	<ul style="list-style-type: none"> ■ Suspension fault 	<ul style="list-style-type: none"> ■ Two chimes repeated regularly Red indicator permanently illuminated 	<ul style="list-style-type: none"> ■ Water ingress to wiring harness or connectors ■ Air leak(s) ■ Vehicle in transportation mode ■ System not calibrated or calibration corrupt ■ Implausible articulation symptoms detected ■ Failure of multiple height sensors ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Visually inspect the system for air leakage. Check the system mode and calibration using the approved diagnostic system. Check for implausible articulation symptoms, i.e. height sensor or linkage fault, deflated air spring, under inflated tire etc. Note implausible articulation symptoms may be caused by an un-calibrated height sensor. Check for height sensor DTCs and refer to the DTC index. Refer to the warranty policy and procedures manual if a module is suspect.</p>
Vehicle does not sit level	<ul style="list-style-type: none"> ■ Suspension fault 	<ul style="list-style-type: none"> ■ Two chimes repeated regularly Red indicator permanently illuminated 	<ul style="list-style-type: none"> ■ Water ingress to wiring harness or connectors ■ Air leak(s) ■ Calibration corrupt ■ cross-link valve fault ■ Height sensor fault ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valves stuck open ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Visually inspect the system for air leakage and refer to the guided diagnostic routine on the approved diagnostic system. Check the system calibration using the approved diagnostic system. For front and rear cross link valve tests refer to the guided diagnostic routine on the approved diagnostic system. Check for height sensor DTCs and refer to the DTC index. For reservoir and exhaust valve tests refer to the guided diagnostic routine on the approved diagnostic system. Check for corner valve DTCs and refer to the DTC index. Refer to the warranty policy and procedures manual if a module is suspect.</p>

SYMPTOM	POSSIBLE MESSAGE	POSSIBLE OTHER WARNINGS	POSSIBLE CAUSES	ACTION
Vehicle sits too low	<ul style="list-style-type: none"> ■ Suspension fault ■ Hill descent control (HDC) fault, system not available ■ Dynamic stability control (DSC) 	<ul style="list-style-type: none"> ■ Two chimes, amber indicator permanently illuminated ■ One chime ■ DSC amber indicator permanently illuminated ■ ABS indicator permanently illuminated 	<ul style="list-style-type: none"> ■ Water ingress to wiring harness or connectors ■ Air leak(s) ■ Air suspension compressor temperature sensor fault ■ Inlet air filter blockage /restriction ■ Air suspension compressor fault ■ Exhaust valve stuck/sticking ■ Air suspension control module lost communication with ABS module ■ ABS fault. ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Visually inspect the system for air leakage. For air compressor temperature sensor, inlet air filter, exhaust valve and air compressor tests refer to the guided diagnostic routine on the approved diagnostic system. For Air suspension control module lost communication with ABS module, refer to the lost communication codes statement at the end of this table. Check for ABS DTCs, Refer to the relevant section of the workshop manual. Refer to the warranty policy and procedures manual if a module is suspect.</p>
Vehicle sits too high	<ul style="list-style-type: none"> ■ Suspension fault 	<ul style="list-style-type: none"> ■ Two chimes, amber indicator permanently illuminated 	<ul style="list-style-type: none"> ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valves stuck open ■ Air suspension control module failure 	<p>For reservoir valve and exhaust valve tests refer to the guided diagnostic routine on the approved diagnostic system. Check for corner valve DTCs and refer to the DTC index. Refer to the warranty policy and procedures manual if a module is suspect.</p>
System detects extended mode unnecessarily when lowering	<ul style="list-style-type: none"> ■ - 	<ul style="list-style-type: none"> ■ - 	<ul style="list-style-type: none"> ■ Crossed gallery and air spring pipes ■ Incorrect valve block installed to front or rear ■ Damage or blockage in air harness 	<p>Refer to the guided diagnostic routine on the approved diagnostic system.</p>
Vehicle leans	<ul style="list-style-type: none"> ■ - 	<ul style="list-style-type: none"> ■ - 		<p>Refer to the guided diagnostic routine on the approved</p>

SYMPTOM	POSSIBLE MESSAGE	POSSIBLE OTHER WARNINGS	POSSIBLE CAUSES	ACTION
/tilts after being left over-night or for some days			<ul style="list-style-type: none"> ■ Leaking air spring(s) ■ Leak from corner valve to gallery ■ Exhaust valve stuck open 	diagnostic system.
After vehicle left over-night or for some days system regularly indicates "Suspension vehicle raising slowly" when first driving off	<ul style="list-style-type: none"> ■ Suspension vehicle raising slowly 	<ul style="list-style-type: none"> ■ - 	<ul style="list-style-type: none"> ■ Leaking air spring(s) ■ Leaking reservoir 	Refer to the guided diagnostic routine on the approved diagnostic system.

DTC INDEX



NOTES:

- 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).
- Intermittent faults may cause DTCs to be logged, however some DTCs may be cleared during an ignition off, ignition on cycle. Carry out a road test (if safe to do so), check the functionality of the system and retrieve any DTCs **before** turning the ignition off.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
B1A8455	Car Configuration Data	<ul style="list-style-type: none"> ■ Data does not match that expected for VIN range/Air suspension incorrectly configured 	Configure the car configuration file (CCF) using the approved diagnostic system. Clear the DTC and test for normal operation.
C112201	Steering Isolation Valve	<ul style="list-style-type: none"> ■ Servotronic steering valve disconnected ■ Servotronic steering valve circuit(s) high resistance or short circuit to ground 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ▪ Servotronic steering valve fault 	
C11231C	Steering Isolation Valve Supply Circuit	<ul style="list-style-type: none"> ▪ Servotronic steering valve supply circuit high resistance ▪ Servotronic steering valve supply circuit short circuit to ground ▪ Servotronic steering valve supply circuit short circuit to power ▪ Servotronic steering valve fault 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C112F72	Air Spring Valve	<ul style="list-style-type: none"> ▪ Repeated or frequent level activity in the down direction ▪ Corner valve stuck open ▪ Corner valve leak to gallery 	Refer to the approved diagnostic system for corner valve checks.
C113066	Air Spring Air Supply	<ul style="list-style-type: none"> ▪ Repeated or frequent level activity in the up direction ▪ Air spring leak ▪ Air harness leak ▪ Exhaust valve stuck open ▪ Corner valve leak to gallery 	Visually inspect the system for air leakage. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C11307A	Air Spring Air Supply	<ul style="list-style-type: none"> ▪ Unable to lift vehicle ▪ Detached air pipe ▪ Loose or burst air pipe ▪ Excessive air spring leak ▪ Height sensor stuck ▪ Height sensor failure ▪ Blockage in air harness 	Visually inspect the system for an excessive air leak. Check the height sensor linkage(s) for damage/restrictions. Visually inspect the air harness for evidence of melting, crushing, kinking or collapsing. Refer to the guided diagnostic routine for this code on the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
C113192	Air Spring Air Supply	<ul style="list-style-type: none"> ■ Unable to pressurize gallery ■ Insufficient pressure from compressor ■ Detached air pipe ■ Loose or burst air pipe ■ Reservoir valve block pipes incorrectly installed (unions reversed) ■ Pressure sensor fault 	Visually inspect the system for air leakage. Check the reservoir valve block pipes for correct routing and installation.
C1A001C	Control Module	<ul style="list-style-type: none"> ■ A momentary low voltage event occurred ■ Low battery voltage ■ One or more control valve supplies intermittent short circuit to ground 	Check the battery charge, condition and circuit. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1A001D	Control Module	<ul style="list-style-type: none"> ■ Isolation switch current monitor ■ One or more valve supplies short circuit to ground ■ Rear valve block disconnected ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A0049	Control Module	<ul style="list-style-type: none"> ■ Water ingress to valve wiring harness or connector(s) ■ Valve supply circuit (s) short circuit to power ■ Air suspension control module internal electrical failure 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A0053	Control Module	<ul style="list-style-type: none"> ■ This is not a fault, the system has been deflated using 	Carry out Air suspension deflation exit routine using the approved diagnostic system or the routine listed at the end of this section.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<p>the diagnostic routine</p>	
C1A0054	Control Module	<ul style="list-style-type: none"> ■ Air suspension control module not calibrated ■ Air suspension control module has been set into manufacturing, calibration or tight tolerance mode 	<p>If the problem is found during pre-delivery inspection, check that the air suspension control module (RLM) is NOT in manufacturing mode, calibration mode or tight tolerance mode using the approved diagnostic system. Configure the RLM to customer mode if necessary (tight tolerance mode and manufacturing mode can be set/cleared by starting then ending the suspension geometry set process from IDS menu. Refer to the relevant Technical Service Bulletin). Clear the DTC and test for normal operation. Only if the DTC re-occurs, should the system be calibrated using the approved diagnostic system. Clear the DTC and test for normal operation.</p>
C1A0119	LED	<ul style="list-style-type: none"> ■ Switch pack LED circuit, short circuit to power ■ One or more LEDs short circuit to each other 	<p>Refer to the guided diagnostic routine for this code on the approved diagnostic system.</p>
C1A031C	Left Front Height Sensor	<ul style="list-style-type: none"> ■ Left-hand front height sensor signal voltage out of range ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor installed on wrong side of vehicle ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance 	<p>Visually inspect the wiring harness and connectors for water ingress. For height sensor linkage, mounting and circuit tests refer to the guided diagnostic routine on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor failure ■ Incorrect height calibration ■ Air suspension control module failure 	
C1A0326	Left Front Height Sensor	<ul style="list-style-type: none"> ■ Left-hand front height sensor signal voltage stuck whilst vehicle is driven ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A0329	Left Front Height Sensor	<ul style="list-style-type: none"> ■ Left-hand front height sensor signal invalid ■ Water ingress to wiring harness or connectors ■ Height sensor linkage damaged /bent ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Incorrect height calibration process 	
C1A0392	Left Front Height Sensor	<ul style="list-style-type: none"> ■ Left-hand front height sensor height changing slower than expected ■ Suspension prevented from moving ■ Height sensor incorrectly installed ■ Air spring leak ■ Air harness leak ■ Blocked/damaged air harness ■ Blocked/damaged gallery pipe ■ Corner valve stuck closed ■ Front or rear valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valve air leak ■ Pressure sensor fault ■ Height sensor failure 	<p>Check that the vehicle is free of obstructions. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check for an air spring leak. Check the air harness for evidence of melting, crushing, kinking or collapsing. Check the front and rear valve block pipes for correct routing and installation. Check the reservoir valve block pipes for correct routing and installation. Refer to the approved diagnostic system for corner, reservoir and exhaust valve checks. Check the corner valve for leaks.</p>
C1A041C	Right Front Height Sensor	<ul style="list-style-type: none"> ■ Right-hand front height sensor signal voltage out of range ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor installed on wrong side of vehicle ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration ■ Air suspension control module failure 	
C1A0426	Right Front Height Sensor	<ul style="list-style-type: none"> ■ Right-hand front height sensor signal voltage stuck whilst vehicle is driven ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

C1A0429	Right Front Height Sensor	<ul style="list-style-type: none"> ■ Right-hand front height sensor signal invalid: ■ Water ingress to wiring harness or connectors ■ Height sensor linkage damaged /bent ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration process 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system.</p>
C1A0492	Right Front Height Sensor	<ul style="list-style-type: none"> ■ Right-hand front height sensor height changing slower than expected ■ Suspension prevented from moving ■ Height sensor incorrectly installed ■ Air spring leak ■ Air harness leak ■ Blocked/damaged air harness ■ Blocked/damaged gallery pipe ■ Corner valve stuck closed ■ Front or rear valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve block pipes incorrectly installed (unions reversed) 	<p>Check that the vehicle is free of obstructions. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check for an air spring leak. Check the air harness for evidence of melting, crushing, kinking or collapsing. Check the front and rear valve block pipes for correct routing and installation. Check the reservoir valve block pipes for correct routing and installation. Refer to the approved diagnostic system for corner, reservoir and exhaust valve checks. Check the corner valve for leaks.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valve air leak ■ Pressure sensor fault ■ Height sensor failure 	
C1A051C	Left Rear Height Sensor	<ul style="list-style-type: none"> ■ Left-hand rear height sensor signal voltage out of range ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor installed on wrong side of vehicle ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

C1A0526	Left Rear Height Sensor	<ul style="list-style-type: none"> ■ Left-hand rear height sensor signal voltage stuck whilst vehicle is driven ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>
C1A0529	Left Rear Height Sensor	<ul style="list-style-type: none"> ■ Left-hand rear height sensor signal invalid ■ Water ingress to wiring harness or connectors ■ Height sensor linkage damaged /bent ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration process 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system.</p>
C1A0592	Left Rear Height Sensor	<ul style="list-style-type: none"> ■ Left-hand rear height sensor height changing slower than expected 	<p>Check that the vehicle is free of obstructions. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check for an air spring leak.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Suspension prevented from moving ■ Height sensor incorrectly installed ■ Air spring leak ■ Air harness leak ■ Blocked/damaged air harness ■ Blocked/damaged gallery pipe ■ Corner valve stuck closed ■ Front or rear valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valve air leak ■ Pressure sensor fault ■ Height sensor failure 	<p>Check the air harness for evidence of melting, crushing, kinking or collapsing. Check the front and rear valve block pipes for correct routing and installation. Check the reservoir valve block pipes for correct routing and installation. Refer to the approved diagnostic system for corner, reservoir and exhaust valve checks. Check the corner valve for leaks.</p>
C1A061C	Right Rear Height Sensor	<ul style="list-style-type: none"> ■ Right-hand rear height sensor signal voltage out of range ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor installed on wrong side of vehicle ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration ■ Air suspension control module failure 	
C1A0626	Right Rear Height Sensor	<ul style="list-style-type: none"> ■ Right-hand rear height sensor signal voltage stuck whilst vehicle is driven ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A0629	Right Rear Height Sensor	<ul style="list-style-type: none"> ■ Right-hand rear height sensor signal invalid ■ Water ingress to wiring harness or connectors 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor linkage damaged /bent ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Incorrect height calibration process 	
C1A0692	Right Rear Height Sensor	<ul style="list-style-type: none"> ■ Right-hand rear height sensor height changing slower than expected ■ Suspension prevented from moving ■ Height sensor incorrectly installed ■ Air spring leak ■ Air harness leak ■ Blocked/damaged air harness ■ Blocked/damaged gallery pipe ■ Corner valve stuck closed ■ Front or rear valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve block pipes incorrectly installed (unions reversed) ■ Reservoir valve stuck open ■ Exhaust valve stuck closed ■ Corner valve air leak 	<p>Check that the vehicle is free of obstructions. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check for an air spring leak. Check the air harness for evidence of melting, crushing, kinking or collapsing. Check the front and rear valve block pipes for correct routing and installation. Check the reservoir valve block pipes for correct routing and installation. Refer to the approved diagnostic system for corner, reservoir and exhaust valve checks. Check the corner valve for leaks.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Pressure sensor fault ■ Height sensor failure 	
C1A0762	Cross Articulation	<ul style="list-style-type: none"> ■ Cross articulation too large whilst vehicle is driven ■ Water ingress to wiring harness or connectors ■ Height sensor linkage damaged /bent ■ Height sensor linkage loose /disconnected ■ Height sensor bracket damaged /bent ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor removed and reinstalled without being recalibrated ■ New height sensor installed without calibration ■ Incorrect height calibration ■ Height sensor failure 	<p>Follow the process detailed in the relevant special service message (SSM). Check the condition and security of the height sensor bracket(s). Check the height sensor for correct fitment and fixings torque. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system.</p>
C1A081C	Pressure Sensor Supply	<ul style="list-style-type: none"> ■ Pressure sensor supply voltage out of range ■ Pressure sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Pressure sensor failure ■ Air suspension control module failure 	<p>Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
C1A091C	Pressure Sensor Signal	<ul style="list-style-type: none"> ■ Pressure sensor signal voltage out of range ■ Pressure sensor disconnected ■ Pressure sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Pressure sensor failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A1064	Pressure Fluctuates When System Inactive	<ul style="list-style-type: none"> ■ Reservoir and air spring pipes incorrectly installed to front or rear valve block (unions reversed) ■ Corner valve stuck open ■ Pressure sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Pressure sensor failure ■ Air suspension control module failure 	Check the reservoir and air spring pipes for correct routing and installation. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A1164	Pressure Fluctuates When System Inactive	<ul style="list-style-type: none"> ■ Reservoir and air spring pipes incorrectly installed to front or rear valve block (unions reversed) ■ Corner valve internal leak ■ Reservoir valve internal leak ■ Pressure sensor harness wiring short circuit to ground, short circuit to power or high resistance 	Check the reservoir and air spring pipes for correct routing and installation. For corner valve, reservoir valve, pressure sensor and circuit tests refer to the guided diagnostic routine for this code on the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Pressure sensor failure 	
C1A1364	Pressure Does Not Decrease When Venting Gallery	<ul style="list-style-type: none"> ■ Exhaust valve stuck closed ■ Exhaust valve does not hold minimum retention pressure ■ Gallery pipe blocked /damaged ■ Pressure sensor fault ■ Air suspension exhaust silencer blocked/restricted ■ Air suspension exhaust pipe blocked/damaged ■ Reservoir valve block pipes incorrectly installed (unions reversed) 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the Air suspension exhaust pipe and silencer for blockage/restriction. Check the reservoir valve block pipes for correct routing and installation.
C1A1864	Pressure Increase Too Rapid When Filling Reservoir	<ul style="list-style-type: none"> ■ Reservoir valve stuck closed ■ Reservoir pipe blocked/damaged ■ Reservoir port blocked/restricted ■ Pressure sensor fault 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1A2064	Pressure Increase Too Slow When Filling Reservoir	<ul style="list-style-type: none"> ■ Compressor fault ■ Reservoir pipe air leak ■ Reservoir air leak ■ Gallery pipe air leak ■ Intake filter blocked /restricted ■ Intake pipe blocked /restricted ■ Air suspension intake silencer blocked/restricted ■ Corner valve stuck open 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the Air suspension intake pipe and silencer for blockage/restriction.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Pressure sensor fault 	
C1A2464	No Temperature Increase When Compressor Requested	<ul style="list-style-type: none"> ■ Air compressor cylinder head temperature sensor disconnected ■ Air compressor cylinder head temperature sensor detached from cylinder head ■ Air compressor cylinder head temperature sensor fault ■ Air compressor fault 	Check the security of the compressor cylinder head temperature sensor and electrical connection. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1A2467	No Temperature Increase When Compressor Requested	<ul style="list-style-type: none"> ■ Temperature takes too long to read after suitable compressor runtime ■ Air compressor cylinder head temperature sensor disconnected ■ Air compressor cylinder head temperature sensor fault ■ Air compressor disconnected ■ Air compressor ground circuit high resistance ■ Air compressor fault 	Check the security of the compressor cylinder head temperature sensor and electrical connection. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1A2616	Temperature Sensor Circuit	<ul style="list-style-type: none"> ■ Temperature sensor voltage out of range ■ Air compressor cylinder head temperature sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
C1A2712	Compressor Circuit	<ul style="list-style-type: none"> ■ Compressor voltage present when compressor not requested ■ Air compressor harness wiring short circuit to power ■ Air compressor relay fault ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A2714	Compressor Circuit	<ul style="list-style-type: none"> ■ Compressor voltage present when compressor requested ■ Air suspension control module supply (COMP_V) fuse in battery junction box (BJB) failed ■ Air supply relay/air compressor supply fusible link in BJB failed/not installed ■ Air compressor harness wiring short circuit to ground or high resistance ■ Air compressor relay failure ■ Air suspension control module failure 	Check/renew fuses as necessary. Refer to the electrical guides. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A2729	Compressor Circuit	<ul style="list-style-type: none"> ■ Compressor relay control voltage signal invalid ■ Air compressor harness wiring short circuit to power ■ Air compressor relay fault ■ Air suspension control module failure 	DTC C1A2712 will be set first. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A2864	Wrong Number		Check/renew fuse as necessary. Refer to the electrical guides. Refer to the

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
	of LEDs Illuminated	<ul style="list-style-type: none"> ■ Wrong number of LEDs illuminated on switch pack ■ Air suspension control module supply (BATTERY) fuse in battery junction box (BJB) failed ■ Switch pack harness wiring short circuit to ground, short circuit to power or high resistance ■ LED circuit short circuit to power ■ One or more LEDs short circuit to each other ■ Switch pack failure ■ Air suspension control module failure 	electrical guides and check the switch pack and LED wiring circuits. Renew /repair as necessary. Refer to the warranty policy and procedures manual if a module is suspect.
C1A2992	Switch Activation Too Long	<ul style="list-style-type: none"> ■ Ride height change switch activation too long ■ Switch pressed for more than 255 seconds ■ Switch pack harness wiring short circuit to ground, short circuit to power or high resistance ■ Switch pack failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3064	Both Switches Pressed At Same Time	<ul style="list-style-type: none"> ■ Raise and lower switches activated at same time ■ Air suspension control module supply (BATTERY) fuse in battery junction box (BJB) failed 	Check/renew fuse as necessary. Refer to the electrical guides. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Switch pack harness wiring short circuit to ground, short circuit to power or high resistance ■ Switch pack failure ■ Air suspension control module failure 	
C1A3101	Left Front Corner Valve	<ul style="list-style-type: none"> ■ Left-hand front corner valve, general electrical failure ■ Front valve block disconnected ■ Front valve block harness wiring short circuit to ground or high resistance ■ Left-hand front corner valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3201	Right Front Corner Valve	<ul style="list-style-type: none"> ■ Right-hand front corner valve, general electrical failure ■ Front valve block disconnected ■ Front valve block harness wiring short circuit to ground or high resistance ■ Right-hand front corner valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3301	Left Rear Corner Valve	<ul style="list-style-type: none"> ■ Left-hand rear corner valve, general electrical failure ■ Rear valve block disconnected 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Rear valve block harness wiring short circuit to ground or high resistance ■ Left-hand rear corner valve failure ■ Air suspension control module failure 	
C1A3401	Right Rear Corner Valve	<ul style="list-style-type: none"> ■ Right-hand rear corner valve, general electrical failure ■ Rear valve block disconnected ■ Rear valve block harness wiring short circuit to ground or high resistance ■ Right-hand rear corner valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3501	Reservoir Valve	<ul style="list-style-type: none"> ■ Reservoir valve general electrical failure ■ Reservoir valve block disconnected ■ Reservoir valve block harness wiring short circuit to ground or high resistance ■ Reservoir valve block failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3601	Exhaust Valve	<ul style="list-style-type: none"> ■ Exhaust valve, general electrical failure ■ Exhaust valve disconnected ■ Exhaust valve harness wiring short circuit to 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<p>ground or high resistance</p> <ul style="list-style-type: none"> ■ Exhaust valve failure ■ Air suspension control module failure 	
C1A3701	Front Cross-Link Valve	<ul style="list-style-type: none"> ■ Front cross-link valve general electrical failure ■ Front valve block disconnected ■ Front valve block harness wiring short circuit to ground or high resistance ■ Front cross-link valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A3801	Rear Cross-Link Valve	<ul style="list-style-type: none"> ■ Rear cross-link valve general electrical failure ■ Rear valve block disconnected ■ Rear valve block harness wiring short circuit to ground or high resistance ■ Rear cross-link valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A5501	Ignition Switch Input Circuit	<ul style="list-style-type: none"> ■ Ignition switch input circuit; ignition on while wake-up off or ignition off while engine running ■ Ignition switch input circuit short circuit to ground, short circuit to power or high resistance 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
C1A681C	Left Front Height Sensor Supply	<ul style="list-style-type: none"> ■ Left-hand front height sensor supply circuit voltage out of range ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A691C	Right Front Height Sensor Supply	<ul style="list-style-type: none"> ■ Right-hand front height sensor supply circuit voltage out of range ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A701C	Left Rear Height Sensor Supply	<ul style="list-style-type: none"> ■ Left-hand rear height sensor supply circuit voltage out of range ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A711C	Right Rear Height Sensor Supply	<ul style="list-style-type: none"> ■ Right-hand rear height sensor supply circuit voltage out of range 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	
C1A721C	Left Front Height Sensor Mechanism	<ul style="list-style-type: none"> ■ Left-hand front height sensor signal voltage out of range (mechanical) ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Incorrect height calibration ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>
C1A731C	Right Front		<p>Visually inspect the wiring harness and connectors for water ingress. Refer</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
	Height Sensor Mechanism	<ul style="list-style-type: none"> ■ Right-hand front height sensor voltage out of range (mechanical) ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Incorrect height calibration ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.
C1A741C	Left Rear Height Sensor Mechanism	<ul style="list-style-type: none"> ■ Left-hand rear height sensor signal voltage out of range (mechanical) ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent 	Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Incorrect height calibration ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	
C1A751C	Right Rear Height Sensor Mechanism	<ul style="list-style-type: none"> ■ Right-hand rear height sensor signal voltage out of range (mechanical) ■ Water ingress to wiring harness or connectors ■ Height sensor linkage disconnected ■ Height sensor linkage damaged /bent ■ Height sensor disconnected ■ Height sensor linkage toggled (now operating in reverse direction) ■ Height sensor bracket damaged /bent ■ Height sensor incorrectly installed ■ Incorrect height calibration 	<p>Visually inspect the wiring harness and connectors for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Check the height sensor bracket condition and security. Check the height sensor for correct installation and torque of fixings. If any height sensor fixings are slackened or found to be loose, or a height sensor has been changed, the vehicle ride height must be re-calibrated. Calibrate the system using the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.</p>

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<ul style="list-style-type: none"> ■ Height sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Height sensor failure ■ Air suspension control module failure 	
C1B1862	Supply Voltage X-Ref Check	<ul style="list-style-type: none"> ■ Inconsistent battery voltages received by Air suspension control module ■ Air suspension control module supply circuit(s) short circuit to ground ■ Air suspension control module supply circuit(s) high resistance ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1B1903	Door Status Signal	<ul style="list-style-type: none"> ■ Door status signal, pulse width modulated failures ■ Incorrect software loaded to Air suspension control module ■ Central junction box to Air suspension module harness wiring short circuit to ground, short circuit to power or high resistance ■ Central junction box fault 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
C1B211C	Compressor Brush Card Temperature Sensor Circuit	<ul style="list-style-type: none"> ■ Compressor brush card temperature sensor circuit, voltage out of range ■ Compressor brush card temperature sensor harness 	Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		wiring short circuit to ground, short circuit to power or high resistance <ul style="list-style-type: none"> ■ Compressor brush card temperature sensor failure ■ Air suspension control module failure 	
U007388	Control Module Communication Bus 'A' Off	<ul style="list-style-type: none"> ■ CAN bus connections short circuit to each other 	Refer to the Network Communications section of the workshop manual.
U010087	Lost Communication With ECM /PCM "A"	<ul style="list-style-type: none"> ■ CAN bus fault ■ ECM disconnected ■ ECM not configured ■ ECM failure 	Refer to the Network Communications section of the workshop manual.
U010187	Lost Communication With Transmission Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ Transmission control module (TCM) disconnected ■ TCM not configured ■ TCM failure 	Refer to the Network Communications section of the workshop manual.
U010287	Lost Communication With Transfer Box Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ Transfer box control module disconnected ■ Transfer box control module not configured ■ Transfer box control module failure 	Refer to the Network Communications section of the workshop manual.
U012287	Lost Communication With Vehicle Dynamics Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ ABS module disconnected ■ ABS module not configured ■ ABS module failure 	Refer to the Network Communications section of the workshop manual.
U012687	Lost	<ul style="list-style-type: none"> ■ CAN bus fault 	Refer to the Network Communications section of the workshop manual.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
	Communication With Steering Angle Sensor Module	<ul style="list-style-type: none"> ■ SASM disconnected ■ SASM not configured /calibrated ■ SASM failure 	
U012887	Lost Communication With Park Brake Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ Park brake module disconnected ■ Park brake module not configured ■ Park brake module failure 	Refer to the Network Communications section of the workshop manual.
U013387	Lost Communication With Active Roll Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ Vehicle dynamic suspension system module disconnected ■ Vehicle dynamic suspension system module not configured ■ ABS module failure 	Refer to the Network Communications section of the workshop manual.
U013687	Lost Communication With Differential Control Module - Rear	<ul style="list-style-type: none"> ■ CAN bus fault ■ Electronic rear differential control module disconnected ■ Electronic rear differential control module not configured ■ Electronic rear differential control module failure 	Refer to the Network Communications section of the workshop manual.
U015587	Lost Communication With Instrument Panel Cluster (IPC) Control Module	<ul style="list-style-type: none"> ■ CAN bus fault ■ Instrument cluster disconnected ■ Instrument cluster not configured ■ Instrument cluster failure 	Refer to the Network Communications section of the workshop manual.
U030055	Internal Control Module	<ul style="list-style-type: none"> ■ Incorrect software loaded 	Configure the Air suspension control module and instrument cluster as necessary using the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
	Software Incompatibility	<ul style="list-style-type: none"> ■ CAN wiring to instrument cluster high resistance ■ Incorrect instrument cluster CAN configuration 	
U040186	Invalid Data Received From ECM/PCM A	<ul style="list-style-type: none"> ■ Engine management system fault 	Refer to the Network Communications section of the workshop manual.
U041686	Invalid Data Received From Vehicle Dynamics Control Module	<ul style="list-style-type: none"> ■ Warnings and Messages: <ul style="list-style-type: none"> ■ Warning - Two Chimes ■ Displayed message - SLOW DOWN OR VEHICLE WILL LOWER ■ Subsequent Warning & Message <ul style="list-style-type: none"> ■ Warning - One Chime. ■ Message - SUSPENSION LOWERED ■ Meaning - Vehicle has lowered to Access height because of failure of another vehicle system ■ ABS fault 	Refer to the Network Communications section of the workshop manual. Check for ABS system DTCs and repair as necessary.
U041786	Invalid Data Received From Park Brake Control Module	<ul style="list-style-type: none"> ■ Park brake fault 	Refer to the Network Communications section of the workshop manual.
U042886	Invalid Data Received From Steering Angle Sensor Module (SASM)	<ul style="list-style-type: none"> ■ SASM not configured /calibrated ■ SAS fault 	Check the security of the electrical connection. Configure/calibrate the SAS using the approved diagnostic system. Refer to the Network Communications section of the workshop manual.
U043486	Invalid Data Received From Active Roll Control Module	<ul style="list-style-type: none"> ■ Vehicle dynamic suspension system fault 	Refer to the Network Communications section of the workshop manual.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
U1A1387	Lost Communication With All Terrain Control Module	<ul style="list-style-type: none"> ■ Lost communication with all terrain optimization switch ■ CAN bus fault ■ Terrain optimization switch disconnected ■ Terrain response module not configured ■ Terrain response module failure 	Refer to the Network Communications section of the workshop manual.
U1A1449	CAN Initialization Failure	<ul style="list-style-type: none"> ■ Internal electronic failure 	Refer to the Network Communications section of the workshop manual.
U1A3562	VIN Data	<ul style="list-style-type: none"> ■ VIN from instrument cluster does not match VIN at time of calibration ■ Air suspension control module has been swapped with another vehicle ■ Instrument cluster not configured 	Configure the instrument cluster using the approved diagnostic system.
U200067	Motor Temperature	<ul style="list-style-type: none"> ■ Temperature sensor voltage takes too long to read after suitable compressor runtime ■ Compressor brush card temperature sensor harness wiring short circuit to ground, short circuit to power or high resistance ■ Compressor brush card temperature sensor failure ■ Compressor fault 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
U200701	Valve(s)	<ul style="list-style-type: none"> ■ Valve circuit short circuit to ground ■ Water ingress to wiring harness or connectors ■ Valve harness wiring short circuit 	DTC C1A001D will be set first. Visually inspect the wiring harness and connectors between the Air suspension control module and the control valves for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system.

DTC	DESCRIPTION	POSSIBLE CAUSES	ACTION
		<p>to ground or high resistance</p> <ul style="list-style-type: none"> ■ Air suspension control module failure 	
U200711	Valve(s)	<ul style="list-style-type: none"> ■ Valve circuit short circuit to ground when system is inactive ■ Water ingress to wiring harness or connectors ■ Valve harness wiring short circuit to ground or high resistance ■ Air suspension control module failure 	Visually inspect the wiring harness and connectors between the Air suspension control module and the control valves for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system.
U200719	Valve(s)	<ul style="list-style-type: none"> ■ Valve circuit current above threshold ■ Valve supply circuit (s) intermittent short circuit to ground or high resistance ■ Valve failure ■ Air suspension control module failure 	Refer to the guided diagnostic routine for this code on the approved diagnostic system.
U200767	Valve(s)	<ul style="list-style-type: none"> ■ Valve signal incorrect after event ■ Water ingress to wiring harness or connectors ■ Valve supply circuit (s) short circuit to ground, short circuit to power or high resistance ■ Air suspension control module failure 	Visually inspect the wiring harness and connectors between the Air suspension control module and the control valves for water ingress. Refer to the guided diagnostic routine for this code on the approved diagnostic system. Refer to the warranty policy and procedures manual if a module is suspect.

AIR SUSPENSION DEFLATION EXIT ROUTINE

1. Key on, engine off.
2. Key off.
3. Press and release raise switch.
4. Press and release lower switch.
5. Key on, engine off.
6. Key on, engine running.
7. Press and release raise switch twice.
8. Press and release lower switch twice.
9. Press and release raise switch.