

FAULT CODE 271 - Engine Fuel Pump Pressurizing Assembly 1 Circuit - Voltage Below Normal or Shorted to Low Source

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Engine Control Module	Refer to Procedure 019-031	ISF2.8 CM2220 E ISF2.8 CM2220 AN ISF2.8 CM2220 IAN	4022178
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2220 ISF3.8 CM2220 AN ISF3.8 CM2220 IAN	4021704
Engine Control Module	Refer to Procedure 019-031	ISB4.5, ISB6.7, ISD4.5, and ISD6.7 CM2150 SN	4022188
Engine Control Module	Refer to Procedure 019-031	ISL8.9 CM2150 SN	4022190
Engine Control Module	Refer to Procedure 019-031	ISZ13 CM2150	4022133
Engine Control Module	Refer to Procedure 019-031	ISB6.7 CM2250	4022254
Engine Control Module	Refer to Procedure 019-031	ISC8.3 and ISL9 CM2250	4022257
Engine Control Module	Refer to Procedure 019-031	ISX15 CM2250 GX CM2250	4022250
Engine Control Module	Refer to Procedure 019-031	ISX12/ISX11.9 CM2250	2883445
Engine Control Module	Refer to Procedure 019-031	Marine QSB6.7 CM2250	4310611
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2250	4022256
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2250	4022255
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2250 EC	2883621
Engine Control Module	Refer to Procedure 019-031	QSX11.9 CM2250 ECF	2883561
Engine Control Module	Refer to Procedure 019-031	QSX15 CM2250 ECF	2883557
Engine Control Module	Refer to Procedure 019-031	PowerGen QSX15 CM2250 ECF	4310661
Engine Control Module	Refer to Procedure 019-031	PowerGen QSX15 CM2250	4310664
Engine Control Module	Refer to Procedure 019-031	QSB3.3 CM2250 EC	2883647
Engine Control Module	Refer to Procedure 019-031	ISB6.7 CM2350	2883567
Engine Control Module	Refer to Procedure 019-031	ISL9 CM2350 L101	4310787
Engine Control Module	Refer to Procedure 019-031	ISX12 CM2350 X102	4310646
Engine Control Module	Refer to Procedure 019-031	ISX15 CM2350 X101	4310641
Engine Control Module	Refer to Procedure 019-031	ISX15 CM2250 SN	4310736
Engine Control Module	Refer to Procedure 019-031	ISF2.8 CM2220 F101	4310846
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2220 F103	4310839
Engine Control Module	Refer to Procedure 019-031	ISB4.5 CM2350 B104	4332646
Engine Control Module	Refer to Procedure 019-031	ISB6.7 CM2350 B103	4332641
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2350 B105	4332778
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2350 L102	4332796
Engine Control Module	Refer to Procedure 019-031	ISB/ISD4.5 CM2150 B119	4358465
Engine Control Module	Refer to Procedure 019-031	ISB/ISD6.7 CM2150 B120	4358470
Engine Control Module	Refer to Procedure 019-031	ISL8.9 CM2150 L110	4358475
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2220 F110	4358480
Engine Control Module	Refer to Procedure 019-031	QSL9 M CM2250 L106	4358343
Engine Control Module	Refer to Procedure 019-031	ISL9 CM2350 L111	4367223
Engine Control Module	Refer to Procedure 019-031	QSZ13 CM2150 Z101	4358364
Engine Control Module	Refer to Procedure 019-031	QSZ13 CM2150 Z102	4358369

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Engine Control Module	Refer to Procedure 019-031	QSF2.8 CM2880 F105	4358561
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2350 B112	4358498
Engine Control Module	Refer to Procedure 019-031	QSF3.8 CM2350 F107	4367316
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2350 F109	4367218
Engine Control Module	Refer to Procedure 019-031	QSB4.5 CM2350 B106	4367376
Engine Control Module	Refer to Procedure 019-031	QSG12 CM2350 G110	4367323
Engine Control Module	Refer to Procedure 019-031	QSF2.8 CM2880 F114	4383734
Engine Control Module	Refer to Procedure 019-031	ISF2.8 CM2220 F117	4388578
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2350 L107	4367386
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2250 B128	4388601
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2250 L115	4388626
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2350 L118	4388673
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2350 B130	4388668
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2220 F116	4383664
Engine Control Module	Refer to Procedure 019-031	QSF3.8 CM2350 F119	4388703
Engine Control Module	Refer to Procedure 019-031	QSF3.8 CM2350 F118	4388708
Engine Control Module	Refer to Procedure 019-031	QSB4.5 CM2350 B122	4388767
Engine Control Module	Refer to Procedure 019-031	QSC8.3 CM2880 C102	4388785
Engine Control Module	Refer to Procedure 019-031	ISF2.8 CM2220 F126	5411159
Engine Control Module	Refer to Procedure 019-031	QSB4.5 CM2250 B131	4388774
Engine Control Module	Refer to Procedure 019-031	QSB3.3 CM2250 B137	5411058
Engine Control Module	Refer to Procedure 019-031	ISB6.7 CM2350 B142	5411131
Engine Control Module	Refer to Procedure 019-031	QSX15 CM2250 X115	4388739
Engine Control Module	Refer to Procedure 019-031	X15 CM2350 X114B	5411181
Engine Control Module	Refer to Procedure 019-031	X15 CM2350 X116B	5411186
Engine Control Module	Refer to Procedure 019-031	B6.7 CM2350 B121B	5411223
Engine Control Module	Refer to Procedure 019-031	F3.8 CM2350 F120B	5411237
Engine Control Module	Refer to Procedure 019-031	L9 CM2350 L116B	5411330
Engine Control Module	Refer to Procedure 019-031	B4.5 CM2350 B129B	5411247
Engine Control Module	Refer to Procedure 019-031	B4.5 CM2350 B147B	5411252
Engine Control Module	Refer to Procedure 019-031	B6.7 CM2350 B135B	5411257
Engine Control Module	Refer to Procedure 019-031	B6.7 CM2350 B148B	5411262
Engine Control Module	Refer to Procedure 019-031	L9 CM2350 L119B	5411267
Engine Control Module	Refer to Procedure 019-031	QSB6.7 CM2350 B145	5411273
Engine Control Module	Refer to Procedure 019-031	QSL9 CM2350 L122	5411278
Engine Control Module	Refer to Procedure 019-031	QSB4.5 CM2350 B144	5411382
Engine Control Module	Refer to Procedure 019-031	L9 CM2350 L123B	5411465
Engine Control Module	Refer to Procedure 019-031	QSF2.8 CM2880 F131	5411489
Engine Control Module	Refer to Procedure 019-031	QSX15 CM2350 X118	5467247
Engine Control Module	Refer to Procedure 019-031	QSG12 CM2350 G113	5467252
Engine Control Module	Refer to Procedure 019-031	QSF3.8 CM2350 F125	5411494
Engine Control Module	Refer to Procedure 019-031	QSF2.8 CM2880 F124	5411484
Engine Control Module	Refer to Procedure 019-031	ISF4.5 CM2220 F123	5411320
Engine Control Module	Refer to Procedure 019-031	ISF2.8 CM2220 F122	5467376
Engine Control Module	Refer to Procedure 019-031	R2.8 CM2220 R101B	5467556
Engine Control Module	Refer to Procedure 019-031	F3.8 CM2350 F132B	5467327
Engine Control Module	Refer to Procedure 019-031	ISB5.9 CM2880 B110	4332883

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Engine Control Module	Refer to Procedure 019-031	B6.7 CM2350 B136C	5504194
Engine Control Module	Refer to Procedure 019-031	ISF3.8 CM2220 F134B	5504165
Engine Control Module	Refer to Procedure 019-031	F3.8 CM2350 F133C	5504278
Engine Control Module	Refer to Procedure 019-031	F3.8 CM2350 F128C	5504273
Engine Control Module	Refer to Procedure 019-031	B4.5 CM2350 B146C	5504283
Engine Control Module	Refer to Procedure 019-031	F2.8 CM2620 F135B	5504616
Engine Control Module	Refer to Procedure 019-031	F2.8 CM2620 F136B	5504621
Engine Control Module	Refer to Procedure 019-031	F3.8 CM2620 F137B	5579517
Engine Control Module	Refer to Procedure 019-031	F4.5 CM2620 F139B	5579522
Engine Control Module	Refer to Procedure 019-031	X15 CM2350 X125M	5504345
Engine Wiring Harness	Refer to Procedure 019-043	ISF2.8 CM2220 E ISF2.8 CM2220 AN ISF2.8 CM2220 IAN	4022178
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2220 ISF3.8 CM2220 AN ISF3.8 CM2220 IAN	4021704
Engine Wiring Harness	Refer to Procedure 019-043	ISB4.5, ISB6.7, ISD4.5, and ISD6.7 CM2150 SN	4022188
Engine Wiring Harness	Refer to Procedure 019-043	ISL8.9 CM2150 SN	4022190
Engine Wiring Harness	Refer to Procedure 019-043	ISZ CM2150	4022133
Engine Wiring Harness	Refer to Procedure 019-043	ISB6.7 CM2250	4022254
Engine Wiring Harness	Refer to Procedure 019-043	ISC8.3 and ISL9 CM2250	4022257
Engine Wiring Harness	Refer to Procedure 019-043	ISX15 CM2250 GX CM2250	4022250
Engine Wiring Harness	Refer to Procedure 019-043	ISX12/ISX11.9 CM2250	2883445
Engine Wiring Harness	Refer to Procedure 019-043	Marine QSB6.7 CM2250	4310611
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2250	4022256
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2250	4022255
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2250 EC	2883621
Engine Wiring Harness	Refer to Procedure 019-043	QSX11.9 CM2250 ECF	2883561
Engine Wiring Harness	Refer to Procedure 019-043	QSX15 CM2250 ECF	2883557
Engine Wiring Harness	Refer to Procedure 019-043	PowerGen QSX15 CM2250 ECF	4310661
Engine Wiring Harness	Refer to Procedure 019-043	PowerGen QSX15 CM2250	4310664
Engine Wiring Harness	Refer to Procedure 019-043	QSB3.3 CM2250 EC	2883647
Engine Wiring Harness	Refer to Procedure 019-043	ISB6.7 CM2350 B101	2883567
Engine Wiring Harness	Refer to Procedure 019-043	ISL9 CM2350 L101	4310787
Engine Wiring Harness	Refer to Procedure 019-043	ISX12 CM2350 X102	4310646
Engine Wiring Harness	Refer to Procedure 019-043	ISX15 CM2350 X101	4310641
Engine Wiring Harness	Refer to Procedure 019-043	ISX15 CM2250 SN	4310736
Engine Wiring Harness	Refer to Procedure 019-043	ISF2.8 CM2220 F101	4310846
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2220 F103	4310839
Engine Wiring Harness	Refer to Procedure 019-043	ISB4.5 CM2350 B104	4332646
Engine Wiring Harness	Refer to Procedure 019-043	ISB6.7 CM2350 B103	4332641
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2350 B105	4332778
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2350 L102	4332796
Engine Wiring Harness	Refer to Procedure 019-043	ISB/ISD4.5 CM2150 B119	4358465

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Engine Wiring Harness	Refer to Procedure 019-043	ISB/ISD6.7 CM2150 B120	4358470
Engine Wiring Harness	Refer to Procedure 019-043	ISL8.9 CM2150 L110	4358475
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2220 F110	4358480
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 M CM2250 L106	4358343
Engine Wiring Harness	Refer to Procedure 019-043	ISL9 CM2350 L111	4367223
Engine Wiring Harness	Refer to Procedure 019-043	QSZ13 CM2150 Z101	4358364
Engine Wiring Harness	Refer to Procedure 019-043	QSZ13 CM2150 Z102	4358369
Engine Wiring Harness	Refer to Procedure 019-043	QSF2.8 CM2880 F105	4358561
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2350 B112	4358498
Engine Wiring Harness	Refer to Procedure 019-043	QSF3.8 CM2350 F107	4367316
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2350 F109	4367218
Engine Wiring Harness	Refer to Procedure 019-043	QSB4.5 CM2350 B106	4367376
Engine Wiring Harness	Refer to Procedure 019-043	QSG12 CM2350 G110	4367323
Engine Wiring Harness	Refer to Procedure 019-043	QSF2.8 CM2880 F114	4383734
Engine Wiring Harness	Refer to Procedure 019-043	ISF2.8 CM2220 F117	4388578
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2350 L107	4367386
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2250 B128	4388601
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2250 L115	4388626
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2350 L118	4388673
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2350 B130	4388668
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2220 F116	4383664
Engine Wiring Harness	Refer to Procedure 019-043	QSF3.8 CM2350 F119	4388703
Engine Wiring Harness	Refer to Procedure 019-043	QSF3.8 CM2350 F118	4388708
Engine Wiring Harness	Refer to Procedure 019-043	QSB4.5 CM2350 B122	4388767
Engine Wiring Harness	Refer to Procedure 019-043	QSC8.3 CM2880 C102	4388785
Engine Wiring Harness	Refer to Procedure 019-043	ISF2.8 CM2220 F126	5411159
Engine Wiring Harness	Refer to Procedure 019-043	QSB4.5 CM2250 B131	4388774
Engine Wiring Harness	Refer to Procedure 019-043	QSB3.3 CM2250 B137	5411058
Engine Wiring Harness	Refer to Procedure 019-043	ISB6.7 CM2350 B142	5411131
Engine Wiring Harness	Refer to Procedure 019-043	QSX15 CM2250 X115	4388739
Engine Wiring Harness	Refer to Procedure 019-043	X15 CM2350 X114B	5411181
Engine Wiring Harness	Refer to Procedure 019-043	X15 CM2350 X116B	5411186
Engine Wiring Harness	Refer to Procedure 019-043	B6.7 CM2350 B121B	5411223
Engine Wiring Harness	Refer to Procedure 019-043	F3.8 CM2350 F120B	5411237
Engine Wiring Harness	Refer to Procedure 019-043	L9 CM2350 L116B	5411330
Engine Wiring Harness	Refer to Procedure 019-043	B4.5 CM2350 B129B	5411247
Engine Wiring Harness	Refer to Procedure 019-043	B4.5 CM2350 B147B	5411252
Engine Wiring Harness	Refer to Procedure 019-043	B6.7 CM2350 B135B	5411257
Engine Wiring Harness	Refer to Procedure 019-043	B6.7 CM2350 B148B	5411262
Engine Wiring Harness	Refer to Procedure 019-043	L9 CM2350 L119B	5411267
Engine Wiring Harness	Refer to Procedure 019-043	QSB6.7 CM2350 B145	5411273
Engine Wiring Harness	Refer to Procedure 019-043	QSL9 CM2350 L122	5411278
Engine Wiring Harness	Refer to Procedure 019-043	QSB4.5 CM2350 B144	5411382
Engine Wiring Harness	Refer to Procedure 019-043	L9 CM2350 L123B	5411465
Engine Wiring Harness	Refer to Procedure 019-043	QSF2.8 CM2880 F131	5411489
Engine Wiring Harness	Refer to Procedure 019-043	QSX15 CM2350 X118	5467247
Engine Wiring Harness	Refer to Procedure 019-043	QSG12 CM2350 G113	5467252

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Engine Wiring Harness	Refer to Procedure 019-043	QSF3.8 CM2350 F125	5411494
Engine Wiring Harness	Refer to Procedure 019-043	QSF2.8 CM2880 F124	5411484
Engine Wiring Harness	Refer to Procedure 019-043	ISF4.5 CM2220 F123	5411320
Engine Wiring Harness	Refer to Procedure 019-043	ISF2.8 CM2220 F122	5467376
Engine Wiring Harness	Refer to Procedure 019-043	R2.8 CM2220 R101B	5467556
Engine Wiring Harness	Refer to Procedure 019-043	F3.8 CM2350 F132B	5467327
Engine Wiring Harness	Refer to Procedure 019-043	ISB5.9 CM2880 B110	4332883
Engine Wiring Harness	Refer to Procedure 019-043	B6.7 CM2350 B136C	5504194
Engine Wiring Harness	Refer to Procedure 019-043	ISF3.8 CM2220 F134B	5504165
Engine Wiring Harness	Refer to Procedure 019-043	F3.8 CM2350 F133C	5504278
Engine Wiring Harness	Refer to Procedure 019-043	F3.8 CM2350 F128C	5504273
Engine Wiring Harness	Refer to Procedure 019-043	B4.5 CM2350 B146C	5504283
Engine Wiring Harness	Refer to Procedure 019-043	F2.8 CM2620 F135B	5504616
Engine Wiring Harness	Refer to Procedure 019-043	F2.8 CM2620 F136B	5504621
Engine Wiring Harness	Refer to Procedure 019-043	F3.8 CM2620 F137B	5579517
Engine Wiring Harness	Refer to Procedure 019-043	F4.5 CM2620 F139B	5579522
Engine Wiring Harness	Refer to Procedure 019-043	X15 CM2350 X125M	5504345
Fuel Pump Actuator	Refer to Procedure 019-117	ISF2.8 CM2220 E ISF2.8 CM2220 AN ISF2.8 CM2220 IAN	4022178
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2220 ISF3.8 CM2220 AN ISF3.8 CM2220 IAN	4021704
Fuel Pump Actuator	Refer to Procedure 019-117	ISB4.5, ISB6.7, ISD4.5, and ISD6.7 CM2150 SN	4022188
Fuel Pump Actuator	Refer to Procedure 019-117	ISL8.9 CM2150 SN	4022190
Fuel Pump Actuator	Refer to Procedure 019-117	ISZ13 CM2150	4022133
Fuel Pump Actuator	Refer to Procedure 019-117	ISB6.7 CM2250	4022254
Fuel Pump Actuator	Refer to Procedure 019-117	ISC8.3 and ISL9 CM2250	4022257
Fuel Pump Actuator	Refer to Procedure 019-117	ISX15 CM2250 GX CM2250	4022250
Fuel Pump Actuator	Refer to Procedure 019-117	ISX12/ISX11.9 CM2250	2883445
Fuel Pump Actuator	Refer to Procedure 019-117	Marine QSB6.7 CM2250	4310611
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2250	4022256
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2250	4022255
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2250 EC	2883621
Fuel Pump Actuator	Refer to Procedure 019-117	QSX11.9 CM2250 ECF	2883561
Fuel Pump Actuator	Refer to Procedure 019-117	QSX15 CM2250 ECF	2883557
Fuel Pump Actuator	Refer to Procedure 019-117	PowerGen QSX15 CM2250 ECF	4310661
Fuel Pump Actuator	Refer to Procedure 019-117	PowerGen QSX15 CM2250	4310664
Fuel Pump Actuator	Refer to Procedure 019-117	QSB3.3 CM2250 EC	2883647
Fuel Pump Actuator	Refer to Procedure 019-117	ISB6.7 CM2350 B101	2883567
Fuel Pump Actuator	Refer to Procedure 019-117	ISL9 CM2350 L101	4310787
Fuel Pump Actuator	Refer to Procedure 019-117	ISX12 CM2350 X102	4310646
Fuel Pump Actuator	Refer to Procedure 019-117	ISX15 CM2350 X101	4310641
Fuel Pump Actuator	Refer to Procedure 019-117	ISX15 CM2250 SN	4310736

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Fuel Pump Actuator	Refer to Procedure 019-117	ISF2.8 CM2220 F101	4310846
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2220 F103	4310839
Fuel Pump Actuator	Refer to Procedure 019-117	ISB4.5 CM2350 B104	4332646
Fuel Pump Actuator	Refer to Procedure 019-117	ISB6.7 CM2350 B103	4332641
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2350 B105	4332778
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2350 L102	4332796
Fuel Pump Actuator	Refer to Procedure 019-117	ISB/ISD4.5 CM2150 B119	4358465
Fuel Pump Actuator	Refer to Procedure 019-117	ISB/ISD6.7 CM2150 B120	4358470
Fuel Pump Actuator	Refer to Procedure 019-117	ISL8.9 CM2150 L110	4358475
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2220 F110	4358480
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 M CM2250 L106	4358343
Fuel Pump Actuator	Refer to Procedure 019-117	ISL9 CM2350 L111	4367223
Fuel Pump Actuator	Refer to Procedure 019-117	QSZ13 CM2150 Z101	4358364
Fuel Pump Actuator	Refer to Procedure 019-117	QSZ13 CM2150 Z102	4358369
Fuel Pump Actuator	Refer to Procedure 019-117	QSF2.8 CM2880 F105	4358561
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2350 B112	4358498
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2350 F109	4367218
Fuel Pump Actuator	Refer to Procedure 019-117	QSF3.8 CM2350 F107	4367316
Fuel Pump Actuator	Refer to Procedure 019-117	QSB4.5 CM2350 B106	4367376
Fuel Pump Actuator	Refer to Procedure 019-117	QSG12 CM2350 G110	4367323
Fuel Pump Actuator	Refer to Procedure 019-117	QSF2.8 CM2880 F114	4383734
Fuel Pump Actuator	Refer to Procedure 019-117	ISF2.8 CM2220 F117	4388578
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2350 L107	4367386
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2250 B128	4388601
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2250 L115	4388626
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2350 L118	4388673
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2350 B130	4388668
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2220 F116	4383664
Fuel Pump Actuator	Refer to Procedure 019-117	QSF3.8 CM2350 F119	4388703
Fuel Pump Actuator	Refer to Procedure 019-117	QSF3.8 CM2350 F118	4388708
Fuel Pump Actuator	Refer to Procedure 019-117	QSB4.5 CM2350 B122	4388767
Fuel Pump Actuator	Refer to Procedure 019-117	QSC8.3 CM2880 C102	4388785
Fuel Pump Actuator	Refer to Procedure 019-117	ISF2.8 CM2220 F126	5411159
Fuel Pump Actuator	Refer to Procedure 019-117	QSB4.5 CM2250 B131	4388774
Fuel Pump Actuator	Refer to Procedure 019-117	QSB3.3 CM2250 B137	5411058
Fuel Pump Actuator	Refer to Procedure 019-117	ISB6.7 CM2350 B142	5411131
Fuel Pump Actuator	Refer to Procedure 019-117	QSX15 CM2250 X115	4388739
Fuel Pump Actuator	Refer to Procedure 019-117	X15 CM2350 X114B	5411181
Fuel Pump Actuator	Refer to Procedure 019-117	X15 CM2350 X116B	5411186
Fuel Pump Actuator	Refer to Procedure 019-117	B6.7 CM2350 B121B	5411223
Fuel Pump Actuator	Refer to Procedure 019-117	F3.8 CM2350 F120B	5411237
Fuel Pump Actuator	Refer to Procedure 019-117	L9 CM2350 L116B	5411330
Fuel Pump Actuator	Refer to Procedure 019-117	B4.5 CM2350 B129B	5411247
Fuel Pump Actuator	Refer to Procedure 019-117	B4.5 CM2350 B147B	5411252
Fuel Pump Actuator	Refer to Procedure 019-117	B6.7 CM2350 B135B	5411257
Fuel Pump Actuator	Refer to Procedure 019-117	B6.7 CM2350 B148B	5411262
Fuel Pump Actuator	Refer to Procedure 019-117	L9 CM2350 L119B	5411267

Associated Procedures			
Procedure Title	Procedure Number	Service Model Name	Bulletin Number
Fuel Pump Actuator	Refer to Procedure 019-117	QSB6.7 CM2350 B145	5411273
Fuel Pump Actuator	Refer to Procedure 019-117	QSL9 CM2350 L122	5411278
Fuel Pump Actuator	Refer to Procedure 019-117	QSB4.5 CM2350 B144	5411382
Fuel Pump Actuator	Refer to Procedure 019-117	L9 CM2350 L123B	5411465
Fuel Pump Actuator	Refer to Procedure 019-117	QSF2.8 CM2880 F131	5411489
Fuel Pump Actuator	Refer to Procedure 019-117	QSX15 CM2350 X118	5467247
Fuel Pump Actuator	Refer to Procedure 019-117	QSG12 CM2350 G113	5467252
Fuel Pump Actuator	Refer to Procedure 019-117	QSF3.8 CM2350 F125	5411494
Fuel Pump Actuator	Refer to Procedure 019-117	QSF2.8 CM2880 F124	5411484
Fuel Pump Actuator	Refer to Procedure 019-117	ISF4.5 CM2220 F123	5411320
Fuel Pump Actuator	Refer to Procedure 019-117	ISF2.8 CM2220 F122	5467376
Fuel Pump Actuator	Refer to Procedure 019-117	R2.8 CM2220 R101B	5467556
Fuel Pump Actuator	Refer to Procedure 019-117	F3.8 CM2350 F132B	5467327
Fuel Pump Actuator	Refer to Procedure 019-117	ISB5.9 CM2880 B110	4332883
Fuel Pump Actuator	Refer to Procedure 019-117	B6.7 CM2350 B136C	5504194
Fuel Pump Actuator	Refer to Procedure 019-117	ISF3.8 CM2220 F134B	5504165
Fuel Pump Actuator	Refer to Procedure 019-117	F3.8 CM2350 F133C	5504278
Fuel Pump Actuator	Refer to Procedure 019-117	F3.8 CM2350 F128C	5504273
Fuel Pump Actuator	Refer to Procedure 019-117	B4.5 CM2350 B146C	5504283
Fuel Pump Actuator	Refer to Procedure 019-117	F2.8 CM2620 F135B	5504616
Fuel Pump Actuator	Refer to Procedure 019-117	F2.8 CM2620 F136B	5504621
Fuel Pump Actuator	Refer to Procedure 019-117	F3.8 CM2620 F137B	5579517
Fuel Pump Actuator	Refer to Procedure 019-117	F4.5 CM2620 F139B	5579522
Fuel Pump Actuator	Refer to Procedure 019-117	X15 CM2350 X125M	5504345

TROUBLESHOOTING SUMMARY

▲WARNING▲

Batteries can emit explosive gases. To reduce the possibility of personal injury, always ventilate the compartment before servicing the batteries. To reduce the possibility of arcing, remove the negative (-) battery cable first and attach the negative (-) battery cable last.

▲CAUTION▲

To reduce the possibility of pin and harness damage, use the following test lead when taking a measurement: Part Number 3822758 - male Deutsch™/AMP™/Metri-Pack™ test lead.

STEPS	SPECIFICATIONS	SRT CODE
STEP 1: Check the fault codes.		
STEP 1A: Check for an active fault code.	Fault Code 271 active or inactive with more than one count logged in the last 25 engine hours?	
STEP 2: Check the fuel pump actuator and circuit.		
STEP 2A: Check the actuator pin-to-pin continuity.	Greater than 5 ohms?	
STEP 2B: Check for pin-to-ground short circuit in the engine harness.	Greater than 100k ohms?	
STEP 2C: Check for pin-to-pin short circuit in the engine harness.	Greater than 100k ohms?	

STEP 2D: Check the fault codes

Fault Code 271 active?

STEP 3: Check engine control module (ECM) calibration and clear fault codes.**STEP 3A:** Check if an ECM calibration update is available.

If a calibration update for this fault code is available, does the ECM contain that revision or higher?

STEP 3B: Disable the fault code.

Fault code inactive?

TROUBLESHOOTING STEP**STEP 1: Check the fault codes.****STEP 1A:** Check for an active fault code.

Condition: <ul style="list-style-type: none"> • Turn keyswitch ON. • Connect INSITE™ electronic service tool. 		
Action	Specification/Repair	Next Step
Check for an active fault code. <ul style="list-style-type: none"> • Use INSITE™ electronic service tool to read the fault codes. 	Fault Code 271 active or inactive with more than one count logged in the last 25 engine hours? YES	2A
	Fault Code 271 active or inactive with more than one count logged in the last 25 engine hours? NO	Repair Complete

STEP 2: Check the fuel pump actuator and circuit.**STEP 2A:** Check the actuator pin-to-pin continuity.

Condition: <ul style="list-style-type: none"> • Turn keyswitch OFF. • Disconnect the fuel pump actuator from the engine harness. 		
Action	Specification/Repair	Next Step
<ul style="list-style-type: none"> • Inspect the actuator pins and engine harness connector for damage. Refer to Procedure 019-361 in Section 19. • Measure the resistance between the fuel pump actuator SIGNAL pin and the fuel pump actuator RETURN pin at the sensor connector. Use a wiring diagram and the following procedure for general resistance measurement techniques. Refer to Procedure 019-360 in Section 19.	Greater than 5 ohms? YES Repair: A pin-to-ground short circuit on the SIGNAL wire has been detected in the engine harness. Replace the fuel pump actuator. Refer to Procedure 019-117 in the Associated Procedures Table.	3A
	Greater than 5 ohms? NO	2B

STEP 2B: Check for pin-to-ground short circuit in the engine harness.

<p>Condition:</p> <ul style="list-style-type: none"> • Turn keyswitch OFF. • Disconnect the engine harness from the engine control module (ECM) connector. • Disconnect the fuel pump actuator from the engine harness. 		
Action	Specification/Repair	Next Step
<ul style="list-style-type: none"> • Measure the resistance between the fuel pump actuator SIGNAL pin in the engine harness fuel pump actuator connector and ground. <p>Use the circuit diagram or wiring diagram for connector pin identification.</p> <p>Use the following procedure for general resistance measurement techniques. Refer to Procedure 019-360 in Section 19.</p>	Greater than 100k ohms? YES	2C
	Greater than 100k ohms? NO Repair: A pin-to-ground short circuit on the SIGNAL wire has been detected in the engine harness. Repair or replace the engine harness. Refer to Procedure 019-043 in the Associated Procedures Table.	3A

STEP 2C: Check for pin-to-pin short circuit in the engine harness.

<p>Condition:</p> <ul style="list-style-type: none"> • Turn keyswitch OFF. • Disconnect the engine harness from the engine control module (ECM) connector. • Disconnect the fuel pump actuator from the engine harness. 		
Action	Specification/Repair	Next Step
<ul style="list-style-type: none"> • Measure the resistance between the fuel pump actuator SIGNAL pin in the engine harness fuel pump actuator connector and fuel pump actuator RETURN pin in the engine harness fuel pump actuator connector. <p>Use the circuit diagram or wiring diagram for connector pin identification.</p> <p>Use the following procedure for general resistance measurement techniques. Refer to Procedure 019-361 in Section 19.</p>	Greater than 100k ohms? YES	2D
	Greater than 100k ohms? NO Repair: A pin-to-pin short circuit on the SIGNAL wire has been detected in the engine harness. Repair or replace the engine harness. Refer to Procedure 019-043 in the Associated Procedures Table.	3A

STEP 2D: Check the fault codes.

Condition:		
<ul style="list-style-type: none"> • Turn keyswitch OFF. • Connect the fuel pump actuator to the engine harness. • Connect the engine harness to the ECM connector. • Turn keyswitch ON. 		
Action	Specification/Repair	Next Step
<ul style="list-style-type: none"> • Use INSITE™ electronic service tool to read the fault codes. 	Fault Code 271 active? YES Repair: A damaged fuel pump actuator has been detected. Replace the fuel pump actuator. Refer to Procedure 019-117 in the Associated Procedures Table.	3A
	Fault Code 271 active? NO Repair: The removal and installation of the connector corrected the fault.	3A

STEP 3: Check engine control module (ECM) calibration and clear fault codes.**STEP 3A: Check if an ECM calibration update is available.**

Condition:		
<ul style="list-style-type: none"> • Connect all components. • Connect INSITE™ electronic service tool. 		
Action	Specification/Repair	Next Step
<ul style="list-style-type: none"> • Use INSITE™ electronic service tool to find the present ECM code and revision number in the ECM. The ECM code and revision number are found in the Calibration Information section of System ID and Dataplate in Features and Parameters. 	If a calibration update for this fault code is available, does the ECM contain that revision or higher? YES	3B
	If a calibration update for this fault code is available, does the ECM contain that revision or higher? NO Repair: If necessary, calibrate the ECM. Refer to Procedure 019-032 in Section 19.	3B

STEP 3B: Disable the fault code.

<p>Condition:</p> <ul style="list-style-type: none"> • Connect all components. • Connect INSITE™ electronic service tool. 		
Action	Specification/Repair	Next Step
<p>Disable and clear the fault code.</p> <ul style="list-style-type: none"> • Operate the engine within the "Conditions for Clearing the Fault Code" found in the Overview section of this troubleshooting procedure. 	<p>Fault code inactive? YES</p>	<p>Repair complete</p>
	<p>Fault code inactive? NO</p> <p>Repair:</p> <p>Verify that all steps have been completed. If all steps have been completed, then follow the technical escalation process."</p>	<p>Escalate or call for assistance.</p>

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