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## Troubleshooting

### EMCP 3

Media Number -RENR7902-01

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## Diagnostic Trouble Code List

SMCS - 7569

**Reference** For a full explanation of the use of the Enter function key referenced in this section, see Systems Operation, "Electronic Control Module (Generator Set)"

Table 2 lists the diagnostic trouble codes for the genset. The column titled "Display Text String" is the information that is displayed on the EMCP 3 control panel. In order to view the Suspect Parameter Number (SPN) and the Failure Mode Identifier (FMI), press the Enter Key while viewing the Display Text String.

If the diagnostic code was generated from the Electronic Control Module (ECM) for the engine, refer to the Systems Operation, Testing and Adjusting manual for your particular engine and perform the diagnostic procedure indicated by the SPN/FMI.

If the diagnostic code is generated from the EMCP 3 Electronic Control Module for the generator set, refer to the last column of the following table and reference the " Troubleshooting Topic", within this section.

**Note:** The Emergency Shutdown Override Mode Active Warning requires a level 3 password in order to clear the code. All remaining listed codes require a level 1 password in order to clear the code.

Table 1

Trouble Codes				
Suspect Parameter Number (SPN)	Failure Mode Identifier (FMI)	Code Description	Display Text String	Troubleshooting topic
38	0	External Tank High Fuel Level Shutdown	EXT TANK HIGH FUEL LEVEL S/D	Digital Input Circuit Fault and Analog Input Circuit Fault

38	1	External Tank Low Fuel Level Shutdown	EXT TANK LOW FUEL LEVEL S/D	Digital Input Circuit Fault and Analog Input Circuit Fault
38	3	External Tank Fuel Level Sensor Short High	EXT TANK FUEL LEVEL SENSOR SHORT HIGH	Analog Input Circuit Fault
38	4	External Tank Fuel Level Sensor Short Low	EXT TANK FUEL LEVEL SENSOR SHORT LOW	Analog Input Circuit Fault
38	15	External Tank High Fuel Level Warning	EXT TANK HIGH FUEL LVL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
38	17	External Tank Low Fuel Level Warning	EXT TANK LOW FUEL LVL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
82	0	High Starting Air Pressure Shutdown	HIGH STARTING AIR PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
82	1	Low Starting Air Pressure Shutdown	LOW STARTING AIR PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
82	3	Starting Air Pressure Sensor Short High	STARTING AIR PRES SENSOR SHORT HIGH	Analog Input Circuit Fault
82	4	Starting Air Pressure Sensor Short Low	STARTING AIR PRES SENSOR SHORT LOW	Analog Input Circuit Fault
82	15	High Starting Air Pressure Warning	HIGH STARTING AIR PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
82	17	Low Starting Air Pressure Warning	LOW STARTING AIR PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
95	0	High Fuel Filter Differential Pressure Shutdown	HIGH FUEL FLTR DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
95	1	Low Fuel Filter Differential Pressure Shutdown	LOW FUEL FILTER DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault

95	3	Fuel Filter Differential Pressure Sensor Short High	FUEL FLTER DIFF PRES SENSOR SHORT HIGH	Analog Input Circuit Fault
95	4	Fuel Filter Differential Pressure Sensor Short Low	FUEL FLTR DIFF PRES SENSOR SHORT LOW	Analog Input Circuit Fault
95	15	High Fuel Filter Differential Pressure Warning	HIGH FUEL FLTR DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
95	17	Low Fuel Filter Differential Pressure Warning	LOW FUEL FILTER DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
96	0	High Fuel Level Shutdown	HIGH FUEL LEVEL SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
96	1	Low Fuel Level Shutdown	LOW FUEL LEVEL SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
96	3	Fuel Level Sensor Short High	FUEL LEVEL SENSOR SHORT HIGH	Analog Input Circuit Fault
96	4	Fuel Level Sensor Short Low	FUEL LEVEL SENSOR SHORT LOW	Analog Input Circuit Fault
96	15	High Fuel Level Warning	HIGH FUEL LEVEL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
96	17	Low Fuel Level Warning	LOW FUEL LEVEL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
98	0	High Engine Oil Level Shutdown	HIGH ENGINE OIL LVL SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
98	1	Low Engine Oil Level Shutdown	LOW ENGINE OIL LVL SHUTDOWN	Digital Input Circuit Fault and Analog

				Input Circuit Fault
98	3	Engine Oil Level Sensor Short High	ENGINE OIL LEVEL SENSOR SHORT HIGH	Analog Input Circuit Fault
98	4	Engine Oil Level Sensor Short Low	ENGINE OIL LEVEL SENSOR SHORT LOW	Analog Input Circuit Fault
98	15	High Engine Oil Level Warning	HIGH ENGINE OIL LVL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
98	17	Low Engine Oil Level Warning	LOW ENGINE OIL LVL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
99	0	High Oil Filter Differential Pressure Shutdown	HIGH OIL FILTER DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
99	1	Low Oil Filter Differential Pressure Shutdown	LOW OIL FILTER DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
99	3	Oil Filter Differential Pressure Sensor Short High	OIL FILTER DIFF PRES SENSOR SHORT HIGH	Analog Input Circuit Fault
99	4	Oil Filter Differential Pressure Sensor Short Low	OIL FILTER DIFF PRES SENSOR SHORT LOW	Analog Input Circuit Fault
99	15	High Oil Filter Differential Pressure Warning	HIGH OIL FILTER DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
99	17	Low Oil Filter Differential Pressure Warning	LOW OIL FILTER DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
100	1	Low Engine Oil Pressure Shutdown	LOW ENGINE OIL PRESS SHUTDOWN	Data Link circuit Fault and Digital Input Circuit Fault

100	17	Low Engine Oil Pressure Warning	LOW ENGINE OIL PRESS WARNING	Data Link circuit Fault and Digital Input Circuit Fault
107	0	High Air Filter Differential Pressure Shutdown	HIGH AIR FILTER DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
107	1	Low Air Filter Differential Pressure Shutdown	LOW AIR FILTER DIFF PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
107	3	Air Filter Differential Pressure Sensor Short High	AIR FILTER DIFF PRES SENSOR SHORT HIGH	Analog Input Circuit Fault
107	4	Air Filter Differential Pressure Sensor Short Low	AIR FILTER DIFF PRES SENSOR SHORT LOW	Analog Input Circuit Fault
107	15	High Air Filter Differential Pressure Warning	HIGH AIR FILTER DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
107	17	Low Air Filter Differential Pressure Warning	LOW AIR FILTER DIFF PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
110	0	High Engine Coolant Temperature Shutdown	HIGH ENGINE COOLANT TEMP SHUTDOWN	Data Link Circuit Fault and Digital Input Circuit Fault
110	15	High Engine Coolant Temperature Warning	HIGH ENGINE COOLANT TEMP WARNING	Data Link Circuit Fault and Digital Input Circuit Fault
110	17	Low Engine Coolant Temperature Warning	LOW COOLANT TEMP WARNING	Data Link Circuit Fault and Digital Input Circuit Fault
111	0	High Engine Coolant Level Shutdown	HIGH ENG COOL LEVEL SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault

111	1	Low Engine Coolant Level Shutdown	LOW ENG COOL LEVEL SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
111	3	Engine Coolant Level Sensor Short High	ENGINE COOLANT LEVEL SENSOR SHORT HIGH	Analog Input Circuit Fault
111	4	Engine Coolant Level Sensor Short Low	ENGINE COOLANT LEVEL SENSOR SHORT LOW	Analog Input Circuit Fault
111	15	High Engine Coolant Level Warning	HIGH ENG COOL LEVEL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
111	17	Low Engine Coolant Level Warning	LOW ENG COOL LEVEL WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
137	0	High Fire Extinguisher Pressure Shutdown	HIGH FIRE EXTNG PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
137	1	Low Fire Extinguisher Pressure Shutdown	LOW FIRE EXTNG PRES SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
137	3	Fire Extinguisher Pressure Sensor Short High	FIRE EXTNG PRES SENSOR SHORT HIGH	Analog Input Circuit Fault
137	4	Fire Extinguisher Pressure Sensor Short Low	FIRE EXTNG PRES SENSOR SHORT LOW	Analog Input Circuit Fault
137	15	High Fire Extinguisher Pressure Warning	HIGH FIRE EXTNG PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
137	17	Low Fire Extinguisher Pressure Warning	LOW FIRE EXTNG PRES WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
167	17	Low Battery Charging System Voltage Warning	LOW BATTERY CHARGING SYS VOLT WARN	Charging System

168	0	High Battery Voltage Shutdown	HIGH BATTERY VOLTAGE SHUTDOWN	Charging System
168	15	High Battery Voltage Warning	HIGH BATTERY VOLTAGE WARNING	Charging System
168	17	Low Battery Voltage Warning	LOW BATTERY VOLTAGE WARNING	Charging System
171	0	High Ambient Air Temperature Shutdown	HIGH AMBIENT AIR TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
171	1	Low Ambient Air Temperature Shutdown	LOW AMBIENT AIR TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
171	3	Ambient Air Temperature Sensor Short High	AMBIENT AIR TEMP SENSOR SHORT HIGH	Analog Input Circuit Fault
171	4	Ambient Air Temperature Sensor Short Low	AMBIENT AIR TEMP SENSOR SHORT LOW	Analog Input Circuit Fault
171	15	High Ambient Air Temperature Warning	HIGH AMBIENT AIR TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
171	17	Low Ambient Air Temperature Warning	LOW AMBIENT AIR TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
173	0	High Exhaust Temperature Shutdown	HIGH EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
173	1	Low Exhaust Temperature Shutdown	LOW EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
173	3	Exhaust Temperature Sensor Short High	EXHAUST TEMPERATURE SENSOR SHORT HIGH	Analog Input Circuit Fault
		Exhaust	EXHAUST	

173	4	Temperature Sensor Short Low	TEMPERATURE SENSOR SHORT LOW	Analog Input Circuit Fault
173	15	High Exhaust Temperature Warning	HIGH EXHAUST TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
173	17	Low Exhaust Temperature Warning	LOW EXHAUST TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
175	0	High Engine Oil Temperature Shutdown	HIGH ENGINE OIL TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
175	1	Low Engine Oil Temperature Shutdown	LOW ENGINE OIL TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
175	3	Engine Oil Temperature Sensor Short High	ENGINE OIL TEMP SENSOR SHORT HIGH	Analog Input Circuit Fault
175	4	Engine Oil Temperature Sensor Short Low	ENGINE OIL TEMP SENSOR SHORT LOW	Analog Input Circuit Fault
175	15	High Engine Oil Temperature Warning	HIGH ENGINE OIL TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
175	17	Low Engine Oil Temperature Warning	LOW ENGINE OIL TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
190	0	Engine Over Speed Shutdown	ENGINE OVER SPEED SHUTDOWN	Engine Over Speed Warning
190	1	Engine Under Speed Shutdown	ENGINE UNDER SPEED SHUTDOWN	Engine Under Speed Warning
190	2	Engine Speed Sensor Erratic or Not Present	ENGINE SPEED SENSOR ERRATIC/LOST	Engine Speed Circuit Fault
190	5	Engine Speed Sensor Open	ENGINE SPEED SENSOR OPEN	Engine Speed Circuit Fault

190	17	Engine Under Speed Warning	ENGINE UNDER SPEED WARNING	Engine Under Speed Warning
625	11	SCADA Data Link Fault	SCADA DATA LINK FAULT	Data Link Circuit Fault
639	11	Primary Data Link Fault	PRIMARY DATA LINK FAULT	Data Link Circuit Fault
701	0	Custom Event #1 High Shutdown	CUSTOM EVENT #1 HIGH SHUTDOWN	Digital Input Circuit Fault
701	1	Custom Event #1 Low Shutdown	CUSTOM EVENT #1 LOW SHUTDOWN	Digital Input Circuit Fault
701	15	Custom Event #1 High Warning	CUSTOM EVENT #1 HIGH WARNING	Digital Input Circuit Fault
701	17	Custom Event #1 Low Warning	CUSTOM EVENT #1 LOW WARNING	Digital Input Circuit Fault
701	31	Custom Event #1 Status	CUSTOM EVENT #1 STATUS ACTIVE	Digital Input Circuit Fault
702	0	Custom Event #2 High Shutdown	CUSTOM EVENT #2 HIGH SHUTDOWN	Digital Input Circuit Fault
702	1	Custom Event #2 Low Shutdown	CUSTOM EVENT #2 LOW SHUTDOWN	Digital Input Circuit Fault
702	15	Custom Event #2 High Warning	CUSTOM EVENT #2 HIGH WARNING	Digital Input Circuit Fault
702	17	Custom Event #2 Low Warning	CUSTOM EVENT #2 LOW WARNING	Digital Input Circuit Fault
702	31	Custom Event #2 Status	CUSTOM EVENT #2 STATUS ACTIVE	Digital Input Circuit Fault
703	0	Custom Event #3 High Shutdown	CUSTOM EVENT #3 HIGH SHUTDOWN	Digital Input Circuit Fault
703	1	Custom Event #3 Low Shutdown	CUSTOM EVENT #3 LOW SHUTDOWN	Digital Input Circuit Fault
703	15	Custom Event #3 High Warning	CUSTOM EVENT #3 HIGH WARNING	Digital Input Circuit Fault
703	17	Custom Event #3 Low Warning	CUSTOM EVENT #3 LOW WARNING	Digital Input Circuit Fault

703	31	Custom Event #3 Status	CUSTOM EVENT #3 STATUS ACTIVE	Digital Input Circuit Fault
704	0	Custom Event #4 High Shutdown	CUSTOM EVENT #4 HIGH SHUTDOWN	Digital Input Circuit Fault
704	1	Custom Event #4 Low Shutdown	CUSTOM EVENT #4 LOW SHUTDOWN	Digital Input Circuit Fault
704	15	Custom Event #4 High Warning	CUSTOM EVENT #4 HIGH WARNING	Digital Input Circuit Fault
704	17	Custom Event #4 Low Warning	CUSTOM EVENT #4 LOW WARNING	Digital Input Circuit Fault
704	31	Custom Event #4 Status	CUSTOM EVENT #4 STATUS ACTIVE	Digital Input Circuit Fault
705	0	Custom Event #5 High Shutdown	CUSTOM EVENT #5 HIGH SHUTDOWN	Digital Input Circuit Fault
705	1	Custom Event #5 Low Shutdown	CUSTOM EVENT #5 LOW SHUTDOWN	Digital Input Circuit Fault
705	15	Custom Event #5 High Warning	CUSTOM EVENT #5 HIGH WARNING	Digital Input Circuit Fault
705	17	Custom Event #5 Low Warning	CUSTOM EVENT #5 LOW WARNING	Digital Input Circuit Fault
705	31	Custom Event #5 Status	CUSTOM EVENT #5 STATUS ACTIVE	Digital Input Circuit Fault
706	0	Custom Event #6 High Shutdown	CUSTOM EVENT #6 HIGH SHUTDOWN	Digital Input Circuit Fault
706	1	Custom Event #6 Low Shutdown	CUSTOM EVENT #6 LOW SHUTDOWN	Digital Input Circuit Fault
706	15	Custom Event #6 High Warning	CUSTOM EVENT #6 HIGH WARNING	Digital Input Circuit Fault
706	17	Custom Event #6 Low Warning	CUSTOM EVENT #6 LOW WARNING	Digital Input Circuit Fault
706	31	Custom Event #6 Status	CUSTOM EVENT #6 STATUS ACTIVE	Digital Input Circuit Fault
924	3	Digital Output #1 Short High	DIGITAL OUTPUT 1 SHORT HIGH	Digital Output Circuit Fault

925	3	Digital Output #2 Short High	DIGITAL OUTPUT 2 SHORT HIGH	Digital Output Circuit Fault
970	31	Emergency Stop Shutdown	EMERGENCY STOP SHUTDOWN	Digital Input Circuit Fault
1122	0	High Generator Bearing #1 Temperature Shutdown	HIGH GEN BEARING #1 TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
1122	1	Low Generator Rear Bearing Temperature Shutdown	LOW GEN REAR BEARING TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
1122	3	Generator Rear Bearing Temperature Sensor Short High	GEN REAR BEARING TEMP SENSOR SHORT HIGH	Analog Input Circuit Fault
1122	4	Generator Rear Bearing Temperature Sensor Short Low	GEN REAR BEARING TEMP SENSOR SHORT LOW	Analog Input Circuit Fault
1122	15	High Rear Generator Bearing Temperature Warning	HIGH GEN REAR BEARING TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
1122	17	Low Generator Rear Bearing Temperature Warning	LOW GEN REAR BEARING TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
1231	11	Accessory Data Link Fault	ACCESSORY DATA LINK FAULT	Data Link Circuit Fault
1239	31	Fuel Tank Leak (Fuel Rupture Basin)	FUEL TANK LEAK	Digital Input Circuit Fault
1664	31	Engine Failure to Start Shutdown	ENGINE FAILURE TO START SHUTDOWN	Engine Overcrank Warning
2433	0	High Right Exhaust Temperature	HIGH RIGHT EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault

		Shutdown		
2433	1	Low Right Exhaust Temperature Shutdown	LOW RIGHT EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
2433	3	Right Exhaust Temperature Sensor Short High	RIGHT EXHAUST TEMP SENSOR SHORT HIGH	Analog Input Circuit Fault
2433	4	Right Exhaust Temperature Sensor Short Low	RIGHT EXHAUST TEMP SENSOR SHORT LOW	Analog Input Circuit Fault
2433	15	High Right Exhaust Temperature Warning	HIGH RIGHT EXHAUST TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
2433	17	Low Right Exhaust Temperature Warning	LOW RIGHT EXHAUST TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault
2434	0	High Left Exhaust Temperature Shutdown	HIGH LEFT EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
2434	1	Low Left Exhaust Temperature Shutdown	LOW LEFT EXHAUST TEMP SHUTDOWN	Digital Input Circuit Fault and Analog Input Circuit Fault
2434	3	Left Exhaust Temperature Sensor Short High	LEFT EXHAUST TEMP SENSOR SHORT HIGH	Analog Input Circuit Fault
2434	4	Left Exhaust Temperature Sensor Short Low	LEFT EXHAUST TEMP SENSOR SHORT LOW	Analog Input Circuit Fault
2434	15	High Left Exhaust Temperature Warning	HIGH LEFT EXHAUST TEMP WARNING	Analog Input Circuit Fault
2434	17	Low Left Exhaust Temperature Warning	LOW LEFT EXHAUST TEMP WARNING	Digital Input Circuit Fault and Analog Input Circuit Fault

2436	0	Generator Over Frequency Shutdown	GEN OVER FREQUENCY SHUTDOWN	Generator Over Frequency Warning
2436	1	Generator Under Frequency Shutdown	GEN UNDER FREQUENCY SHUTDOWN	Generator Under Frequency Warning
2436	2	Engine Speed-Generator Output Frequency Mismatch Warning	ENG SPEED-GEN FREQ MISMATCH WARN	Engine Speed Warning
2436	12	Generator Output Sensing System Failure	GEN AC METERING SYS FAILURE	Generator Output Sensing Circuit Fault
2436	15	Generator Over Frequency Warning	GEN OVER FREQUENCY WARNING	Generator Over Frequency Warning
2436	17	Generator Under Frequency Warning	GEN UNDER FREQUENCY WARNING	Generator Under Frequency Warning
2440	0	Generator Over Voltage Shutdown	GEN OVER VOLTAGE SHUTDOWN	Generator Over Voltage Warning
2440	1	Generator Under Voltage Shutdown	GEN UNDER VOLTAGE SHUTDOWN	Generator Under Voltage Warning
2440	15	Generator Over Voltage Warning	GEN OVER VOLTAGE WARNING	Generator Over Voltage Warning
2440	17	Generator Under Voltage Warning	GEN UNDER VOLTAGE WARNING	Generator Under Voltage Warning
2448	0	Generator Over Current Shutdown	GEN OVER CURRENT SHUTDOWN	Generator Over Current Warning
2448	15	Generator Over Current Warning	GEN OVER CURRENT WARNING	Generator Over Current Warning
2452	1	Generator Reverse Power Shutdown	GEN REVERSE POWER	Generator Reverse Power Warning

			SHUTDOWN	
2452	17	Generator Reverse Power Warning	GEN REVERSE POWER WARNING	Generator Reverse Power Warning
2648	31	Service Maintenance Interval Warning	SERV MAINT INTERVAL WARNING	Service Information Interval Warning
4000	31	Air Damper Closed	AIR DAMPER CLOSED	Digital Input Circuit Fault
4001	31	ATS in Normal Position	ATS IN NORMAL POSITION	Digital Input Circuit Fault
4002	31	ATS in Emergency Position	ATS IN EMERGENCY POSITION	Digital Input Circuit Fault
4003	31	Battery Charger Failure	BATTERY CHARGER FAILURE	Digital Input Circuit Fault
4004	31	Generator Circuit Breaker Closed	GENERATOR BREAKER CLOSED	Digital Input Circuit Fault
4005	31	Utility Circuit Breaker Closed	UTILITY BREAKER CLOSED	Digital Input Circuit Fault
4006	31	Engine in Cooldown	ENGINE IN COOLDOWN	Engine Cooldown Warning
4007	31	Generator Control Not in Automatic Warning	GEN CONTROL NOT IN AUTO WARNING	Generator Control Not In Automatic Warning
4008	31	Unexpected Engine Shutdown	UNEXPECTED ENGINE SHUTDOWN	Unexpected Engine Shutdown