



# Engine Room Simulator

## LM2500 Gas Turbine – GT22

### Malfunction Lists

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## 1 DIRECTORY LIST

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Page:20100	GT1 Lube Oil System
Page:20200	GT1 Starting and Ignition System
Page:20300	GT1 Fuel System
Page:20400	GT1 Enclosure Vent and Fire Ext.
Page:20500	GT1 Load System
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Page:20800	GT1 Gas Generator
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Page:20820	GT1 Inlet Air, Bleed Air
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Page:20840	GT1 Sensors
Page:25100	GT2 Lube Oil System
Page:25200	GT2 Starting and Ignition System
Page:25300	GT2 Fuel System
Page:25400	GT2 Enclosure Vent and Fire Ext.
Page:25500	GT2 Load System
Page:25700	GT2 Speed Controller
Page:25800	GT2 Gas Generator
Page:25810	GT2 Power Turbine
Page:25820	GT2 Inlet Air, Bleed Air
Page:25830	GT2 PLA Control, AECM
Page:25840	GT2 Sensors



## 2 VARIABLE LIST PAGES

### 2.1 Page:20000 MD200\*\* GT Fuel System

A: M20001 [0-1] GT1 Booster Pump Power Failure  
B: M20002 [0-1] GT1 Booster Pump Wear  
C: M20003 [0-1] GT1 Pump Suction Filter Blockage  
D: M20004 [0-1] GT1 Pump Discharge Filter Blockage  
E: M20051 [0-1] GT2 Booster Pump Power Failure  
F: M20052 [0-1] GT2 Booster Pump Wear  
G: M20053 [0-1] GT2 Pump Suction Filter Blockage  
H: M20054 [0-1] GT2 Pump Discharge Filter Blockage  
I:  
J:  
K:  
L:  
M:  
N:  
O:  
P:  
Q:  
R:  
S:  
T:

### 2.2 Page:20001 MD200\*\* GT1 Fuel Valves

A: M20010 [0-1] GT1 Day Tank Suction Valve Power Failure  
B: M20011 [0-1] GT1 Day Tank Suction Valve Stuck  
C: M20012 [0-1] GT1 Day Tank Suction Valve Fail Open  
D: M20013 [0-1] GT1 Day Tank Suction Valve Fail Close  
E: M20014 [0-1] GT1 Day Tank Suction Valve Leakage  
F: M20015 [0-1] GT1 Fuel Supply Valve Power Failure  
G: M20016 [0-1] GT1 Fuel Supply Valve Stuck  
H: M20017 [0-1] GT1 Fuel Supply Valve Fail Open  
I: M20018 [0-1] GT1 Fuel Supply Valve Fail Close  
J: M20019 [0-1] GT1 Fuel Supply Valve Leakage  
K: M20020 [0-1] GT1 Exp.Tank Drain Valve Power Failure  
L: M20021 [0-1] GT1 Exp.Tank Drain Valve Stuck  
M: M20022 [0-1] GT1 Exp.Tank Drain Valve Fail Open  
N: M20023 [0-1] GT1 Exp.Tank Drain Valve Fail Close  
O: M20024 [0-1] GT1 Exp.Tank Drain Valve Leakage  
P:  
Q:  
R:  
S:  
T:



### 2.3 Page:20002 MD200\*\* GT2 Fuel Valves

- A: M20060 [0-1] GT2 Day Tank Suction Valve Power Failure
- B: M20061 [0-1] GT2 Day Tank Suction Valve Stuck
- C: M20062 [0-1] GT2 Day Tank Suction Valve Fail Open
- D: M20063 [0-1] GT2 Day Tank Suction Valve Fail Close
- E: M20064 [0-1] GT2 Day Tank Suction Valve Leakage
- F: M20065 [0-1] GT2 Fuel Supply Valve Power Failure
- G: M20066 [0-1] GT2 Fuel Supply Valve Stuck
- H: M20067 [0-1] GT2 Fuel Supply Valve Fail Open
- I: M20068 [0-1] GT2 Fuel Supply Valve Fail Close
- J: M20069 [0-1] GT2 Fuel Supply Valve Leakage
- K: M20070 [0-1] GT2 Exp.Tank Drain Valve Power Failure
- L: M20071 [0-1] GT2 Exp.Tank Drain Valve Stuck
- M: M20072 [0-1] GT2 Exp.Tank Drain Valve Fail Open
- N: M20073 [0-1] GT2 Exp.Tank Drain Valve Fail Close
- O: M20074 [0-1] GT2 Exp.Tank Drain Valve Leakage
- P:
- Q:
- R:
- S:
- T:

### 2.4 Page:20100 MD201\*\* GT1 Lube Oil System

- A: M20101 [0-1] GT1 LO Scavenge Pump Wear
- B: M20102 [0-1] GT1 LO Supply Pump Wear
- C: M20103 [0-1] GT1 LO Scavenge Filter 1 Blockage
- D: M20104 [0-1] GT1 LO Scavenge Filter 2 Blockage
- E: M20105 [0-1] GT1 LO Supply Filter 1 Blockage
- F: M20106 [0-1] GT1 LO Supply Filter 2 Blockage
- G: M20107 [0-1] GT1 LO Cooler Fouling
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.5 Page:20101 MD201\*\* GT1 Lube Oil System

- A: M20900 [0-1] GT1 LO separator low eff hi loss
- B: M20901 [0-1] GT1 Sump A bearing friction high
- C: M20902 [0-1] GT1 Sump B bearing friction high
- D: M20903 [0-1] GT1 Sump C bearing friction high
- E: M20904 [0-1] GT1 Sump D bearing friction high
- F: M20905 [0-1] GT1 Gear box friction high

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.6 Page:20200 MD202\*\* GT1 Starting and Ignition System

- A: M20810 [0-1] GT1 Starter turbine wear low eff
- B: M20812 [0-1] GT1 Starter air control valve stuck <0,1>
- C: M20813 [0-1] GT1 Starter turbine shear section f <0,1>
- D: M20820 [0-1] GT1 Transfer gearbox seizure <0,1>
- E: M20821 [0-1] GT1 Radial drive shear section fail <0,1>
- F: M20856 [0-1] GT1 Igniter power exciter failure <0,1>

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:



## 2.7 Page:20300 MD203\*\* GT1 Fuel System

- A: M20860 [0-1] GT1 Turbine MFC fuel pump wear
- B: M20861 [0-1] GT1 Turbine MFC fuel p filter dirty
- C: M20862 [0-1] GT1 MFC fuel p relief v miss adjust
- D: M20873 [0-1] GT1 Gas gen fuel manifold leakage
- E: M20875 [0-1] GT1 Gas gen fuel v 1 stuck open <0,1>
- F: M20876 [0-1] GT1 Gas gen fuel v 2 stuck open <0,1>
- G: M20877 [0-1] GT1 Gas gen fuel valves stuck o/c <0,1>

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.8 Page:20301 MD203\*\* GT1 Variable Stator Vanes

- A: M20870 [0-1] GT1 Gas gen VSV actuator stuck
- B: M20871 [0-1] GT1 Gas gen VSV feedback wire fail <0,1>
- C: M20872 [0-1] GT1 Gas gen VSV actuator leakage

D:

E:

F:

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:





## 2.9 Page:20400 MD204\*\* GT1 Enclosure Vent and Fire Ext.

- A: M20880 [0-1] GT1 Enclosure damper actuator wear
- B: M20881 [0-1] GT1 Enclosure damper fail stuck <0,1>
- C: M20882 [0-1] GT1 Gas turbine exhaust duct dirty
- D: M20883 [0-1] GT1 Encl heater thermostat fail on <0,1>
- E: M20884 [0-1] GT1 Encl heater thermostat fail of <0,1>
- F: M20885 [0-1] GT1 Post shut down fan fail <0,1>
- G: M20886 [0-1] GT1 Post shut down fan control fail <0,1>
- H: M20888 [0-1] GT1 Upper vent control fail close <0,1>
- I: M20890 [0-1] GT1 UV flame detectors power fail <0,1>
- J: M20891 [0-1] GT1 Encl temp switch fail both <0,1>
- K: M20894 [0-1] GT1 Encl halon rel unit power fail <0,1>
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

## 2.10 Page:20500 MD205\*\* GT1 Load System

- A: M20501 [0-1] GT1 Generator Clutch Failure
- B: M20502 [0-1] GT1 Generator Loss of Magnetization
- C: M20503 [0-1] GT1 Water Brake Clutch Failure
- D: M20504 [0-1] GT1 Water Brake Unstable Load
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.11 Page:20700 MD207\*\* GT1 Speed Controller

A: M20510 [0-1] GT1 Speed PID Contr. gain high

B:

C:

D:

E:

F:

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.12 Page:20800 MD208\*\* GT1 Gas Generator

A: M20800 [0-1] GT1 Gas gen compr wear low eff

B: M20801 [0-1] GT1 Gas gen turb wear low eff

C: M20803 [0-1] GT1 Gas gen fuel atomizers dirty

D: M20830 [0-1] GT1 Gas generator high vibration

E: M20837 [0-1] GT1 Low speed stall auto reset

F: M20838 [0-1] GT1 Hig speed stall auto reset

G: M20839 [0-1] GT1 Gas turbine general stall

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:



## 2.13 Page:20810 MD208\*\* GT1 Power Turbine

- A: M20802 [0-1] GT1 Power turb wear low eff
- B: M20825 [0-1] GT1 Gas turbine brake control fail <0,1>
- C: M20827 [0-1] GT1 Gas turbine brake ruined heat <0,1>
- D: M20828 [0-1] GT1 Power turbine ruined overheat <0,1>
- E: M20831 [0-1] GT1 Power turbine high vibration
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

## 2.14 Page:20820 MD208\*\* GT1 Inlet Air, Bleed Air

- A: M20840 [0-1] GT1 Inlet air demister dirty
- B: M20841 [0-1] GT1 Turbine inlet air screen dirty
- C: M20842 [0-1] GT1 Turbine bleed air valve leakage
- D: M20844 [0-1] GT1 Turbine bleed air valve closed <0,1>
- E: M20845 [0-1] GT1 Turbine bleed air valve open <0,1>
- F: M20846 [0-1] GT1 Air inlet demister flap stuck <0,1>
- G: M20848 [0-1] GT1 Gas gen damage ice strike <0,1>
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.15 Page:20830 MD208\*\* GT1 PLA Control, AECM

- A: M20850 [0-1] GT1 PLA stop idle pos signal fail <0,1>
- B: M20851 [0-1] GT1 PLA command signal fail
- C: M20852 [0-1] GT1 Torque computer miss adjusted
- D: M20853 [0-1] GT1 Torque computer failure <0,1>
- E: M20855 [0-1] GT1 AECM encl high temp s/s fail <0,1>
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

## 2.16 Page:20840 MD208\*\* GT1 Sensors - Temperature

- A: M20910 [0-1] GT1 GG air compr temp sensor gain
- B: M20911 [0-1] GT1 PT gas inlet temp sensor gain
- C: M20916 [0-1] GT1 GT enclosure temp sensor gain
- D: M20940 [0-1] GT1 GG ice condition sensor fail <0-1>
- E: M20950 [0-1] GT1 CIT sensor gain low low temp
- F: M20951 [0-1] GT1 CIT sensor gain hig hig temp
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.17 Page:20841 MD208\*\* GT1 Sensors - Pressure

A: M20913 [0-1] GT1 PT gas inlet press sensor gain  
B: M20914 [0-1] GT1 PT gas outlet press sensor gain  
C: M20918 [0-1] GT1 Fuel oil manifold sensor gain  
D:  
E:  
F:  
G:  
H:  
I:  
J:  
K:  
L:  
M:  
N:  
O:  
P:  
Q:  
R:  
S:  
T:

## 2.18 Page:20842 MD208\*\* GT1 Sensors - Speed

A: M20920 [0-1] GT1 GG speed sensor gain high  
B: M20922 [0-1] GT1 PT speed sensor gain high  
C: M20924 [0-1] GT1 PT speed channel A speed loss <0-1>  
D: M20925 [0-1] GT1 PT speed channel B speed loss <0-1>  
E: M20926 [0-1] GT1 PT speed channel A overspeed <0-1>  
F: M20927 [0-1] GT1 PT speed channel B overspeed <0-1>  
G:  
H:  
I:  
J:  
K:  
L:  
M:  
N:  
O:  
P:  
Q:  
R:  
S:  
T:



## 2.19 Page:20843 MD208\*\* GT1 Sensors - Vibration

- A: M20930 [0-1] GT1 Gas gen vibra pick up (self)
- B: M20931 [0-1] GT1 Gas gen vibra pick up (induced)
- C: M20932 [0-1] GT1 PT vibra pick up (self)
- D: M20933 [0-1] GT1 PT vibra pick up (induced)
- E: M20934 [0-1] GT1 Vibration detector failure <0-1>
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

## 2.20 Page:25100 MD251\*\* GT2 Lube Oil System

- A: M25101 [0-1] GT2 LO Scavenge Pump Wear
- B: M25102 [0-1] GT2 LO Supply Pump Wear
- C: M25103 [0-1] GT2 LO Scavenge Filter 1 Blockage
- D: M25104 [0-1] GT2 LO Scavenge Filter 2 Blockage
- E: M25105 [0-1] GT2 LO Supply Filter 1 Blockage
- F: M25106 [0-1] GT2 LO Supply Filter 2 Blockage
- G: M25107 [0-1] GT2 LO Cooler Fouling
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.21 Page:25101 MD251\*\* GT2 Lube Oil System

- A: M25900 [0-1] GT2 LO separator low eff hi loss
- B: M25901 [0-1] GT2 Sump A bearing friction high
- C: M25902 [0-1] GT2 Sump B bearing friction high
- D: M25903 [0-1] GT2 Sump C bearing friction high
- E: M25904 [0-1] GT2 Sump D bearing friction high
- F: M25905 [0-1] GT2 Gear box friction high

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.22 Page:25200 MD252\*\* GT2 Starting and Ignition System

- A: M25810 [0-1] GT2 Starter turbine wear low eff
- B: M25812 [0-1] GT2 Starter air control valve stuck <0,1>
- C: M25813 [0-1] GT2 Starter turbine shear section f <0,1>
- D: M25820 [0-1] GT2 Transfer gearbox seizure <0,1>
- E: M25821 [0-1] GT2 Radial drive shear section fail <0,1>
- F: M25856 [0-1] GT2 Igniter power exciter failure <0,1>

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:



## 2.23 Page:25300 MD253\*\* GT2 Fuel System

- A: M25860 [0-1] GT2 Turbine MFC fuel pump wear
- B: M25861 [0-1] GT2 Turbine MFC fuel p filter dirty
- C: M25862 [0-1] GT2 MFC fuel p relief v miss adjust
- D: M25873 [0-1] GT2 Gas gen fuel manifold leakage
- E: M25875 [0-1] GT2 Gas gen fuel v 1 stuck open <0,1>
- F: M25876 [0-1] GT2 Gas gen fuel v 2 stuck open <0,1>
- G: M25877 [0-1] GT2 Gas gen fuel valves stuck o/c <0,1>

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.24 Page:25301 MD253\*\* GT2 Variable Stator Vanes

- A: M25870 [0-1] GT2 Gas gen VSV actuator stuck
- B: M25871 [0-1] GT2 Gas gen VSV feedback wire fail <0,1>
- C: M25872 [0-1] GT2 Gas gen VSV actuator leakage

D:

E:

F:

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:





## 2.25 Page:25400 MD254\*\* GT2 Enclosure Vent and Fire Ext.

- A: M25880 [0-1] GT2 Enclosure damper actuator wear
- B: M25881 [0-1] GT2 Enclosure damper fail stuck <0,1>
- C: M25882 [0-1] GT2 Gas turbine exhaust duct dirty
- D: M25883 [0-1] GT2 Encl heater thermostat fail on <0,1>
- E: M25884 [0-1] GT2 Encl heater thermostat fail of <0,1>
- F: M25885 [0-1] GT2 Post shut down fan fail <0,1>
- G: M25886 [0-1] GT2 Post shut down fan control fail <0,1>
- H: M25888 [0-1] GT2 Upper vent control fail close <0,1>
- I: M25890 [0-1] GT2 UV flame detectors power fail <0,1>
- J: M25891 [0-1] GT2 Encl temp switch fail both <0,1>
- K: M25894 [0-1] GT2 Encl halon rel unit power fail <0,1>
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

## 2.26 Page:25500 MD255\*\* GT2 Load System

- A: M25501 [0-1] GT2 Generator Clutch Failure
- B: M25502 [0-1] GT2 Generator Loss of Magnetization
- C: M25503 [0-1] GT2 Water Brake Clutch Failure
- D: M25504 [0-1] GT2 Water Brake Unstable Load
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



---

## 2.27 Page:25700 MD257\*\* GT2 Speed Controller

A: M25510 [0-1] GT2 Speed PID Contr. gain high

B:

C:

D:

E:

F:

G:

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

## 2.28 Page:25800 MD258\*\* GT2 Gas Generator

A: M25800 [0-1] GT2 Gas gen compr wear low eff

B: M25801 [0-1] GT2 Gas gen turb wear low eff

C: M25803 [0-1] GT2 Gas gen fuel atomizers dirty

D: M25830 [0-1] GT2 Gas generator high vibration

E: M25837 [0-1] GT2 Low speed stall auto reset

F: M25838 [0-1] GT2 Hig speed stall auto reset

G: M25839 [0-1] GT2 Gas turbine general stall

H:

I:

J:

K:

L:

M:

N:

O:

P:

Q:

R:

S:

T:

**2.29 Page:25810 MD258\*\* GT2 Power Turbine**

- A: M25802 [0-1] GT2 Power turb wear low eff
- B: M25825 [0-1] GT2 Gas turbine brake control fail <0,1>
- C: M25827 [0-1] GT2 Gas turbine brake ruined heat <0,1>
- D: M25828 [0-1] GT2 Power turbine ruined overheat <0,1>
- E: M25831 [0-1] GT2 Power turbine high vibration
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

**2.30 Page:25820 MD258\*\* GT2 Inlet Air, Bleed Air**

- A: M25840 [0-1] GT2 Inlet air demister dirty
- B: M25841 [0-1] GT2 Turbine inlet air screen dirty
- C: M25842 [0-1] GT2 Turbine bleed air valve leakage
- D: M25844 [0-1] GT2 Turbine bleed air valve closed <0,1>
- E: M25845 [0-1] GT2 Turbine bleed air valve open <0,1>
- F: M25846 [0-1] GT2 Air inlet demister flap stuck <0,1>
- G: M25848 [0-1] GT2 Gas gen damage ice strike <0,1>
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



### 2.31 Page:25830 MD258\*\* GT2 PLA Control, AECM

- A: M25850 [0-1] GT2 PLA stop idle pos signal fail <0,1>
- B: M25851 [0-1] GT2 PLA command signal fail
- C: M25852 [0-1] GT2 Torque computer miss adjusted
- D: M25853 [0-1] GT2 Torque computer failure <0,1>
- E: M25855 [0-1] GT2 AECM encl high temp s/s fail <0,1>
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

### 2.32 Page:25840 MD258\*\* GT2 Sensors - Temperature

- A: M25910 [0-1] GT2 GG air compr temp sensor gain
- B: M25911 [0-1] GT2 PT gas inlet temp sensor gain
- C: M25916 [0-1] GT2 GT enclosure temp sensor gain
- D: M25940 [0-1] GT2 GG ice condition sensor fail <0-1>
- E: M25950 [0-1] GT2 CIT sensor gain low low temp
- F: M25951 [0-1] GT2 CIT sensor gain hig hig temp
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



### 2.33 Page:25841 MD258\*\* GT2 Sensors - Pressure

- A: M25913 [0-1] GT2 PT gas inlet press sensor gain
- B: M25914 [0-1] GT2 PT gas outlet press sensor gain
- C: M25918 [0-1] GT2 Fuel oil manifold sensor gain
- D:
- E:
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:

### 2.34 Page:25842 MD258\*\* GT2 Sensors - Speed

- A: M25920 [0-1] GT2 GG speed sensor gain high
- B: M25922 [0-1] GT2 PT speed sensor gain high
- C: M25924 [0-1] GT2 PT speed channel A speed loss <0-1>
- D: M25925 [0-1] GT2 PT speed channel B speed loss <0-1>
- E: M25926 [0-1] GT2 PT speed channel A overspeed <0-1>
- F: M25927 [0-1] GT2 PT speed channel B overspeed <0-1>
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T:



## 2.35 Page:25843 MD258\*\* GT2 Sensors - Vibration

- A: M25930 [0-1] GT2 Gas gen vibra pick up (self)
- B: M25931 [0-1] GT2Gas gen vibra pick up (induced)
- C: M25932 [0-1] GT2 PT vibra pick up (self)
- D: M25933 [0-1] GT2 PT vibra pick up (induced)
- E: M25934 [0-1] GT2 Vibration detector failure <0-1>
- F:
- G:
- H:
- I:
- J:
- K:
- L:
- M:
- N:
- O:
- P:
- Q:
- R:
- S:
- T: