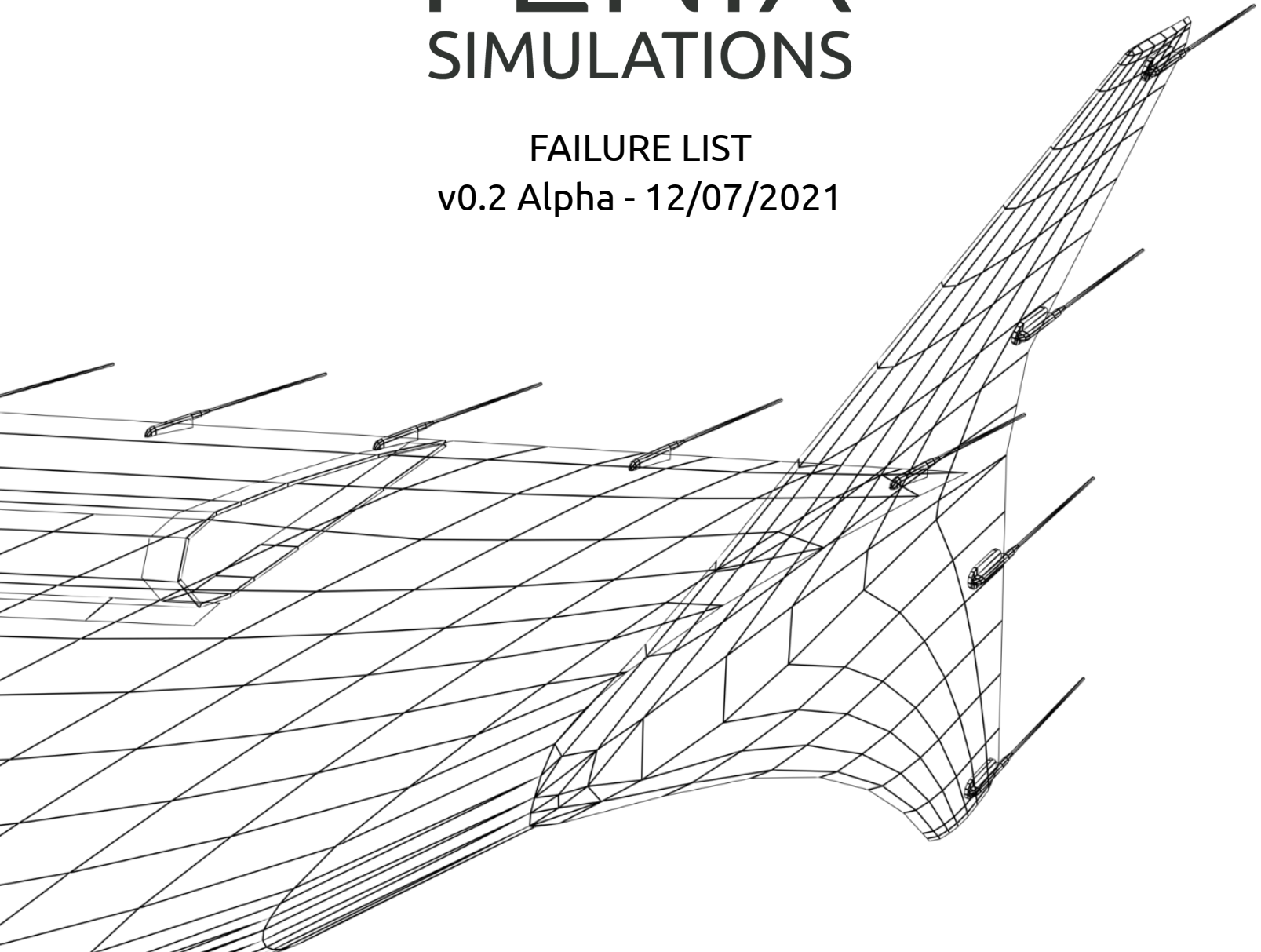




FENIX SIMULATIONS

FAILURE LIST
v0.2 Alpha - 12/07/2021



Please note - this document contains information from a current Alpha version of the Fenix Simulations A320, and is liable to change without notice.

Name	Short Description
A/THR 1	A/THR functionality of FMGC 1 fails.
A/THR 2	A/THR functionality of FMGC 2 fails.
ABCU	ABCU fails.
AC bus 1	AC bus 1 fails.
AC bus 1 26v	The AC bus 1 26V bus has failed
AC bus 2	AC bus 2 fails.
AC bus 2 26v	The AC bus 2 26v bus has failed
AC ESS bus 26v	The AC ESS bus 26v bus has failed
AC ESS bus ALTN	AC ESS bus alternate fails.
AC ESS feed from AC bus 1	AC ESS feed from AC bus 1.
AC ESS feed from AC bus 2	AC ESS feed from AC bus 2.
AC essential bus	AC essential bus fails.
AC essential shed bus	AC essential shed bus fails.
AC static inverter bus	The AC static inverter bus has failed
ADF 1	ADF 1 receiver fails.
ADF 2	ADF 2 receiver fails.
ADR1 failure	ADR1 fails.
ADR2 failure	ADR2 fails.
ADR3 failure	ADR3 fails.
Aft avionics door	Door sensor indicates door is not locked.
Aft cargo door	Door sensor indicates door is not locked.
Aft cargo smoke detected	Aft cargo smoke detected.
Aft entry left door	Door sensor indicates door is not locked.
Aft entry right door	Door sensor indicates door is not locked.
Alignment fault	SFCC senses difference between right and left flap extension.
Alternate law with protection	Demonstration of alternate law with protections.

Alternate law without protection	Demonstration of alternate law without protections.
AOA heat Capt	AOA heat captain power supply fails.
AOA heat F/O	AOA heat F/O power supply fails.
AOA heat STBY	AOA heat standby power supply fails.
AP 1	Failure of FMGC AP 1 function. FD not affected.
AP 2	Failure of FMGC AP 2 function. FD not affected.
APU bleed valve	APU bleed valve stuck in current position.
APU fire extinguished with 1 bottle	APU fire extinguished with 1 bottle.
APU fuel valve	APU fuel valve is stuck in current position.
APU generator	APU generator fails.
APU Loop A	APU fire detection loop A is depressurized.
APU Loop B	APU fire detection loop B is depressurized.
APU low oil level	APU oil level is below lower limit.
APU inextinguishable fire	APU inextinguishable fire.
ATC 1	Transponder channel 1 fails.
ATC 2	Transponder channel 2 fails.
ATSU	ATSU fails.
Autobrake failure	Autobrake fails.
Avionics smoke detected	Avionics smoke detected.
Bleed leak APU	APU bleed leaks.
Bleed leak pylon engine 1	Pylon duct leak engine 1.
Bleed leak pylon engine 2	Pylon duct leak engine 2.
Bleed leak wing engine 1	Wing duct leak engine 1.
Bleed leak wing engine 2	Wing duct leak engine 2.
Blue hydraulic leak	Blue hydraulic line leaks.
Blue low reservoir air pressure	Blue low reservoir air pressure.
Blue reservoir overheat	Temperature of blue reservoir exceeds high limit.
BMC 1	BMC 1 fails.
BMC 2	BMC 2 fails.
BSCU 1 brake fault	BSCU 1 brake system fails.

BSCU 2 brake fault	BSCU 2 brake system fails.
BSCU SYS 1	BSCU SYS 1 fails.
BSCU SYS 2	BSCU SYS 2 fails.
Bulk door	Door sensor indicates door is not locked.
Capt stuck mic	Captain microphone stuck.
Cargo aft isolation valve downstream	The valve has failed and will be stuck in its current position. Difficult to detect.
Cargo aft isolation valve upstream	The valve has failed and will be stuck in its current position. Difficult to detect.
Cargo fwd isolation valve downstream	The valve has failed and will be stuck in its current position. Difficult to detect.
Cargo fwd isolation valve upstream	The valve has failed and will be stuck in its current position. Difficult to detect.
Cargo ventilation controller	Cargo ventilation controller fails.
CDU 1 recoverable fault	MCDU 1 fails
CDU 2 recoverable fault	MCDU 2 fails
CFDIU	CFDIU fails.
CPC 1	Cabin pressure controller 1 fails.
CPC 2	Cabin pressure controller 2 fails.
Crew oxygen pressure < 400	Crew oxygen pressure reduced to 30 PSI.
Crew oxygen pressure < 800	Crew oxygen pressure reduced to 600 PSI.
Crossbleed valve	Cross bleed valve is stuck in current position.
Crossfeed valve	Crossfeed valve stuck.
CVR	CVR fails.
DC Bat bus	DC Battery bus fails.
DC bus 1	DC bus 1 fails.
DC bus 2	DC bus 2 fails.
DC essential bus	DC essential bus fails.
DC essential shed bus	DC essential shed bus fails.
Direct law	Demonstration of direct law.
DMC 1	DMC 1 fails.

DMC 2	DMC 2 fails.
DMC 3	DMC 3 fails.
DU Capt ND	Captain ND fails.
DU Capt PFD	Captain PFD fails.
DU ECAM Lower	Lower ECAM display fails.
DU ECAM Upper	Upper ECAM display fails.
DU F/O ND	F/O ND fails.
DU F/O PFD	F/O PFD fails.
ECB	APU ECB has internal fault.
ECP	ECAM control panel internal failure.
EIU 1	EIU 1 fails.
EIU 2	EIU 2 fails.
ELAC 1	ELAC 1 fails.
ELAC 1 resettable fault	ELAC 1 fails
ELAC 2	ELAC 2 fails.
ELAC 2 resettable fault	ELAC 2 fails
Elec blue pump overheat	Blue elec pump overheat.
Elec hyd pump blue failure	Blue elec hydraulic pump fails.
Elec hyd pump yellow failure	Yellow elec hydraulic pump fails.
Elec yellow pump overheat	Yellow elec pump overheat.
Elev L+R failure	Jamming of both elevator panels.
Eng 1 bleed low temp	Engine 1 bleed air low temperature.
Eng 1 bleed valve	Engine 1 bleed valve stuck.
Eng 1 EAI Valve	Engine 1 anti ice valve fails.
Eng 1 failure	Left engine fails.
Eng 1 failure with damage	Engine 1 fails with damage.
Eng 1 fire extinguished with 1 bottle	Engine 1 fire extinguished with 1 bottle.
Eng 1 fire extinguished with 2 bottles	Engine 1 fire extinguished with 2 bottles.
Eng 1 fire valve	Engine 1 fire valve fails.
Eng 1 fuel valve stuck	Engine 1 fuel valve stuck.
Eng 1 high vibration N1	Engine 1 high vibration N1.

Eng 1 high vibration N2	Engine 1 high vibration N2.
Eng 1 hot start	Engine 1 hot start.
Eng 1 hp fuel valve	Engine 1 hp fuel valve stuck.
Eng 1 HP Valve	Bleed HP valve of engine 1 is stuck in current position.
Eng 1 hung start	Engine 1 hung start.
Eng 1 Loop A	Engine 1 fire detection loop A is depressurized.
Eng 1 Loop B	Engine 1 fire detection loop B is depressurized.
Eng 1 low oil quantity	Engine 1 low oil quantity.
Eng 1 no ignition	Engine 1 no ignition.
Eng 1 oil temperature high	Engine 1 high oil temperature.
Eng 1 oil temperature high advisory	Engine 1 oil temperature above advisory limit.
Eng 1 pump failure	Engine 1 pump fails.
Eng 1 inextinguishable fire	Engine 1 inextinguishable fire.
Eng 2 bleed low temp	Engine 2 bleed air low temperature.
Eng 2 bleed valve	Engine 2 bleed valve stuck.
Eng 2 EAI Valve	Engine 2 anti ice valve fails.
Eng 2 failure	Right engine fails.
Eng 2 failure with damage	Engine 2 fails with damage.
Eng 2 fire extinguished with 1 bottle	Engine 2 fire extinguished with 1 bottle.
Eng 2 fire extinguished with 2 bottles	Engine 2 fire extinguished with 2 bottles.
Eng 2 fire valve	Engine 2 fire valve fails.
Eng 2 fuel valve stuck	Engine 2 fuel valve stuck.
Eng 2 high vibration N1	Engine 2 high vibration N1.
Eng 2 high vibration N2	Engine 2 high vibration N2.
Eng 2 hot start	Engine 2 hot start.
Eng 2 hp fuel valve	Engine 1 hp fuel valve stuck.
Eng 2 HP Valve	Bleed HP valve of engine 2 is stuck in current position.
Eng 2 hung start	Engine 2 hung start.
Eng 2 Loop A	Engine 2 fire detection loop A is depressurized.

Eng 2 Loop B	Engine 2 fire detection loop B is depressurized.
Eng 2 low oil quantity	Engine 2 low oil quantity.
Eng 2 no ignition	Engine 2 no ignition.
Eng 2 oil temperature high	Engine 2 high oil temperature.
Eng 2 oil temperature high advisory	Engine 2 oil temperature above advisory limit.
Eng 2 pump failure	Engine 2 pump fails.
Eng 2 inextinguishable fire	Engine 2 inextinguishable fire.
ESS TR failure	Transformer/Rectifier unit fails and will not provide DC power.
F/O stuck mic	F/O microphone stuck.
FAC 1	FAC 1 fails.
FAC 1 resettable fault	FAC 1 fails
FAC 2	FAC 2 fails.
FAC 2 resettable fault	FAC 2 fails
FADEC Left Channel A	FADEC Eng 1 Channel A fails.
FADEC Left Channel B	FADEC Eng 1 Channel B fails.
FADEC Right Channel A	FADEC Eng 2 Channel A fails.
FADEC Right Channel B	FADEC Eng 2 Channel B fails.
FCDC 1	FCDC 1 fails.
FCDC 2	FCDC 2 fails.
FCU Channel 1	FCU channel 1 fails.
FCU Channel 2	FCU channel 2 fails.
FDU 1	Engine 1 FDU fails.
FDU 2	Engine 2 FDU fails.
FDU 3	APU FDU fails.
Flap locked	Flaps are locked in position by wing tip brakes
FMGC 1	FMGC 1 fails.
FMGC 2	FMGC 2 fails.
Forward avionics door	Door sensor indicates door is not locked.
Forward cargo door	Door sensor indicates door is not locked.
Forward entry left door	Door sensor indicates door is not locked.

Forward entry right door	Door sensor indicates door is not locked.
FQI Chan 1	FQI channel 1 fails.
FQI Chan 2	FQI channel 2 fails.
Fuel leak Center	Fuel leak from center tank.
Fuel leak Left inner	Fuel leak from left inner tank.
Fuel leak Left outer	Fuel leak from left outer tank.
Fuel leak Right inner	Fuel leak from right inner tank.
Fuel leak Right outer	Fuel leak from right outer tank.
Fuel pump center 1	Center tank left pump fails.
Fuel pump center 2	Center tank right pump fails.
Fuel pump left 1	Left tank pump 1 fails.
Fuel pump left 2	Left tank pump 2 fails.
Fuel pump right 1	Right tank pump 1 fails.
Fuel pump right 2	Right tank pump 2 fails.
FWC 1	FWC 1 fails.
FWC 2	FWC 2 fails.
Fwd cargo smoke detected	Fwd cargo smoke detected.
Gear locked down	Gear does not retract when gear lever moved up.
Gear locked up	Gear does not extend when gear lever moved down.
Gear safety valve	Gear safety valve fails.
Generator 1	Engine 1 generator fails.
Generator 2	Engine 2 generator fails.
Glideslope	Glideslope transmitter fails.
GPS 1	GPS 1 receiver fails.
GPS 2	GPS 2 receiver fails.
GPWC	GPWC fails.
Green hydraulic leak	Green hydraulic line leaks.
Green low reservoir air pressure	Green low reservoir air pressure.
Green reservoir overheat	Temperature of green reservoir exceeds high limit.
Hot air fault	Hot air fails.

Hot air valve	Hot air valve stuck in current position.
Hot air valve aft cargo	Cargo hot air valve fails.
Hot bus 1	The Hot bus 1 bus has failed
Hot bus 2	The Hot bus 2 bus has failed
Icing eng 1	Engine 1 icing.
Icing eng 2	Engine 2 icing.
IDG 1 oil low pressure	IDG 1 low oil pressure.
IDG 1 oil overheat	IDG 1 oil overheat.
IDG 2 oil low pressure	IDG 2 low oil pressure.
IDG 2 oil overheat	IDG 2 oil overheat.
ILS 1 G/S	ILS 1 G/S channel receiver fails.
ILS 1 LOC	ILS 1 LOC channel receiver fails.
ILS 2 G/S	ILS 2 G/S channel receiver fails.
ILS 2 LOC	ILS 2 LOC channel receiver fails.
Inner tank high fuel temp advisory	Inner tank temperatures above advisory limit.
Inner tank high fuel temp ECAM	Inner tank temperatures above limit.
Inner tank low fuel temp advisory	Inner tank temperatures below advisory limit.
Inner tank low fuel temp ECAM	Inner tank temperatures below limit.
IPPU1	IPPU1 fails.
IPPU2	IPPU2 fails.
IR1 alignment	IR1 alignment is lost. Unit should be realigned on the ground.
IR1 bank discrepancy	IR1 bank discrepancy.
IR1 heading discrepancy	IR1 heading discrepancy.
IR1 IR disagree	IR1 IR disagree.
IR1 IR failure	IR1 total failure.
IR1 pitch discrepancy	IR1 pitch discrepancy.
IR1 position failure	The IR1 unit has failed. Only attitude data is available from this device.
IR2 alignment	IR2 alignment is lost. Unit should be realigned on the ground.

IR2 bank discrepancy	IR2 bank discrepancy.
IR2 heading discrepancy	IR2 heading discrepancy.
IR2 IR Disagree	IR2 IR disagree.
IR2 IR failure	IR2 total failure.
IR2 pitch discrepancy	IR2 pitch discrepancy.
IR2 position failure	The IR2 unit has failed. Only attitude data is available from this device.
IR3 alignment	IR3 alignment is lost. Unit should be realigned on the ground.
IR3 bank discrepancy	IR3 bank discrepancy.
IR3 heading discrepancy	IR3 heading discrepancy.
IR3 IR failure	IR3 total failure.
IR3 pitch discrepancy	IR3 pitch discrepancy.
IR3 position failure	The IR3 unit has failed. Only attitude data is available from this device.
L Elev failure	Jamming of left elevator panel.
Lavatory/Galley fan	Lavatory/Galley fan fails.
Left avionics door	Door sensor indicates door is not locked.
Left high EGT	Engine 1 EGT exceeds limit.
Left high N1	Engine 1 high N1.
Left main gear does not lock	Left gear does not lock.
Left nacelle temperature high	Left nacelle temperature high.
Left oil pressure below advisory limit	Engine 1 oil pressure below advisory limit.
Left oil pressure high	Engine 1 oil pressure above limit.
Left oil pressure low	Engine 1 oil pressure below limit.
Left reverser inhibited by maint	Left reverser inhibited by maintenance.
Left reverser pressurized	Left reverser pressurized.
Left reverser unlocked	Left reverser unlocked.
Left Static heat Capt	Left static port heat captain power supply fails.
Left Static heat F/O	Left static port heat F/O power supply fails.
Left Static heat Stby	Left static port heat standby power supply fails.

Left transfer 1	Left transfer valve 1 stuck in current position.
Left transfer 2	Left transfer valve 2 stuck in current position.
Left WAI Valve	Left wing anti ice valve locked in current position.
Left wing 1 door	Door sensor indicates door is not locked.
Left wing 2 door	Door sensor indicates door is not locked.
LGCUI 1	LGCIU 1 fails.
LGCUI 2	LGCIU 2 fails.
Localizer	Localizer transmitter fails.
MCDU 1	MCDU 1 fails.
MCDU 2	MCDU 2 fails.
Nose gear does not lock	Nose gear does not lock.
Nose wheel steering	Nose wheel steering fails.
Outer tank high fuel temp advisory	Outer tank temperatures above advisory limit.
Outer tank high fuel temp ECAM	Outer tank temperatures above limit.
Outer tank low fuel temp advisory	Outer tank temperatures below advisory limit.
Outer tank low fuel temp ECAM	Outer tank temperatures below limit.
Outflow valve stuck	Outflow valve is mechanically stuck in current position.
Oxygen supply valve	The valve has failed and will be stuck in its current position. Detection of this failure is hard
Pack 1 flow control valve	The valve has failed and will be stuck in its current position. Detection of this failure is difficult.
Pack 1 overheat	Pack 1 outlet temperature sensor fails.
Pack 1 regulator fault	Pack 1 regulator fails.
Pack 2 flow control valve	The valve has failed and will be stuck in its current position. Detection of this failure is difficult.
Pack 2 overheat	Pack 2 outlet temperature sensor fails.
Pack 2 regulator fault	Pack 2 regulator fails.
PHC 1	Loss of Captain probe heating.
PHC 2	Loss of F/O probe heating.
PHC 3	Loss of standby probe heating.

Pitot blocked Capt	Captain pitot blocked.
Pitot blocked F/O	F/O pitot blocked.
Pitot blocked Stdbby	Standby pitot blocked.
Pitot heat Capt	Pitot heat captain power supply fails.
Pitot heat F/O	Pitot heat F/O power supply fails.
Pitot heat STBY	Pitot heat standby power supply fails.
PTU Fault	PTU fails.
R Elev failure	Jamming of right elevator panel.
Radio altimeter 1	Radio altimeter 1 fails.
Radio altimeter 2	Radio altimeter 2 fails.
Ram air valve	The valve has failed and will be stuck in its current position. Detection of this failure is difficult.
Rapid decompression	Rapid decompression.
Reactive W/S det channel 1	Reactive W/S det channel 1 fails.
Reactive W/S det channel 2	Reactive W/S det channel 2 fails.
Recirculation fans	Recirculation fan fails.
Reverser shutoff valve left	The valve has failed and will be stuck in its current position. Detection of this failure is difficult.
Reverser shutoff valve right	The valve has failed and will be stuck in its current position. Detection of this failure is difficult.
Right avionics door	Door sensor indicates door is not locked.
Right high EGT	Engine 2 EGT exceeds limit.
Right high N1	Engine 2 high N1.
Right main gear does not lock	Right gear does not lock.
Right nacelle temperature high	Right nacelle temperature high.
Right oil pressure below advisory limit	Engine 2 oil pressure below advisory limit.
Right oil pressure high	Engine 2 oil pressure above limit.
Right oil pressure low	Engine 2 oil pressure below limit.
Right reverser inhibited by maint	Right reverser inhibited by maintenance.
Right reverser pressurized	Right reverser pressurized.
Right reverser unlocked	Right reverser unlocked.

Right Static heat Capt	Right static port heat captain power supply fails.
Right Static heat F/O	Right static port heat F/O power supply fails.
Right Static heat Stby	Right static port heat standby power supply fails.
Right transfer 1	Right transfer valve 1 stuck in current position.
Right transfer 2	Right transfer valve 2 stuck in current position.
Right WAI Valve	Right wing anti ice valve locked in current position.
Right wing 1 door	Door sensor indicates door is not locked.
Right wing 2 door	Door sensor indicates door is not locked.
Rudder travel limiter channel 1	Rudder travel limiter 1 fails.
Rudder travel limiter channel 2	Rudder travel limiter 2 fails.
Rudder trim channel 1	Rudder trim channel 1 fails.
Rudder trim channel 2	Rudder trim channel 2 fails.
SDAC 1	SDAC 1 fails.
SDAC 2	SDAC 2 fails.
SDCU	SDCU fails.
SEC 1	SEC 1 fails
SEC 1 resettable fault	SEC 1 fails
SEC 2	SEC 2 fails.
SEC 2 resettable fault	SEC 2 fails
SEC 3	SEC 3 fails.
SEC 3 resettable fault	SEC 3 fails
SFCC 1	SFCC channel 1 fails.
SFCC 1 flap sys	SFCC flap 1 system fails.
SFCC 1 slat sys	SFCC slat 1 system fails.
SFCC 2	SFCC channel 2 fails.
SFCC 2 flap sys	SFCC flap 2 system fails.
SFCC 2 slat sys	SFCC slat 2 system fails.
Sidestick fault Capt	Sidestick captain fails.
Sidestick fault F/O	Sidestick F/O fails.
Sidestick reversal Capt	Sidestick captain controls are reversed in pitch/roll axes.

Sidestick reversal F/O	Sidestick F/O controls are reversed in pitch/roll axes.
Slat locked	Slats are locked through wing tip brakes.
Slow decompression	Slow decompression.
Stabilizer jam	Stabilizer trim actuator fails.
Start valve left	Engine 1 start valve locked in closed position.
Start valve right	Engine 2 start valve locked in closed position.
Static inverter	Static inverter fails.
TAT heat Capt	TAT heat captain power supply fails.
TAT heat F/O	TAT heat F/O power supply fails.
TAT heat STBY	TAT heat standby power supply fails.
TCAS	TCAS fails.
TR 1	TR 1 fails.
TR 2	TR 2 fails.
Tyre pressure left 1 low	Left tyre 1 pressure low.
Tyre pressure left 2 low	Left tyre 2 pressure low.
Tyre pressure main 1 low	Main tyre 1 pressure low.
Tyre pressure main 2 low	Main tyre 2 pressure low.
Tyre pressure right 1 low	Right tyre 1 pressure low.
Tyre pressure right 2 low	Right tyre 2 pressure low.
Vent extract valve	The valve has failed and will be stuck in its current position. Detection of this failure is difficult
Vent inlet valve	The valve has failed and will be stuck in its current position. Detection of this failure is difficult
Ventilation AEVC	Ventilation AEVC fails.
Ventilation blower fault	Blower fan fails.
Ventilation extract fault	Extract fan fails.
VOR 1	VOR 1 receiver fails.
VOR 2	VOR 2 receiver fails.
WHC 1	WHC 1 fails.
WHC 2	WHC 2 fails.

Wheel brake fault 1	Wheel 1 brake fails.
Wheel brake fault 2	Wheel 2 brake fails.
Wheel brake fault 3	Wheel 3 brake fails.
Wheel brake fault 4	Wheel 4 brake fails.
Yaw damper channel 1	Yaw damper actuator 1 fails.
Yaw damper channel 2	Yaw damper actuator 2 fails.
Yellow hydraulic leak	Yellow hydraulic line leaks.
Yellow low reservoir air pressure	Yellow low reservoir air pressure.
Yellow reservoir overheat	Temperature of yellow reservoir exceeds high limit.
Zone controller primary	Zone primary controller fails.
Zone controller secondary	Zone secondary controller fails.