



ATTACHMENT 1

AIRWORTHINESS GROUP CHAIRMAN'S FACTUAL REPORT

NTSB No. ERA17FA274

**Recorded Data Extracted From N31VA Engine Control Unit
(11 Pages)**



9/12/17

Data Source: ECU
Aircraft Model: Bell 407
ECU Version: 257-5400
User Name: 30029
ECU S/N: JG8ALK0565
Turbine S/N: CAT-44732
Eng Gearbox S/N: CAG-47508

Data Time: 9/12/17 1:08:22 PM
Engine Model: 250-C47B
ID: E844
Engine S/N: CAE-847508
Compressor S/N: CAC-44994
HMU S/N: JGALM0397
Aircraft ID: 53465

Parameter	Value	Units	Description
KinP1Cal	-17	Counts	P1 Offset Correction
KinP1Gn	0.998	unitless	P1 Gain Correction
EECalFlt	FALSE	Boolean	EEPROM Calibration Data Fault
EEPROMFlt	FALSE	Boolean	EEPROM Hardware Fault
MaxRTUsed	20.801	msec	Maximum Cycle Time Used in any control cycle

Data Source: ECU
Aircraft Model: Bell 407
ECU Version: 257-5400
User Name: 30029
ECU S/N: JG8ALK0565
Turbine S/N: CAT-44732
Eng Gearbox S/N: CAG-47508

Data Time: 9/12/17 1:09:25 PM
Engine Model: 250-C47B
ID: E844
Engine S/N: CAE-847508
Compressor S/N: CAC-44994
HMU S/N: JGALM0397
Aircraft ID: 53465

<u>Fault Name</u>	<u>Description</u>
NrFlt	- Nr Fault
NrRtFlt	- Nr Rate Fault
NrAntDsb	- Disable Rotor Decay Anticipation

Data Source: ECU
Aircraft Model: Bell 407
ECU Version: 257-5400
User Name: 30029
ECU S/N: JG8ALK0565
Turbine S/N: CAT-44732
Eng Gearbox S/N: CAG-47508

Data Time: 9/12/17 1:10:03 PM
Engine Model: 250-C47B
ID: E844
Engine S/N: CAE-847508
Compressor S/N: CAC-44994
HMU S/N: JGALM0397
Aircraft ID: 53465

<u>Fault Name</u>	<u>Description</u>
NrFlt	- Nr Fault
NrRtFlt	- Nr Rate Fault
NrAntDsb	- Disable Rotor Decay Anticipation

Data Source: ECU
Aircraft Model: Bell 407
ECU Version: 257-5400
User Name: 30029
ECU S/N: JG8ALK0565
Turbine S/N: CAT-44732
Eng Gearbox S/N: CAG-47508

Data Time: 9/12/17 1:10:40 PM
Engine Model: 250-C47B
ID: E844
Engine S/N: CAE-847508
Compressor S/N: CAC-44994
HMU S/N: JGALM0397
Aircraft ID: 53465

<u>Fault Time</u>	<u>Fault Name</u>	<u>Description</u>
6572:01:15.072	NrAntDsb	- Disable Rotor Decay Anticipation
6572:01:15.048	NrFlt	- Nr Fault
6572:01:15.048	NrRtFlt	- Nr Rate Fault

Data Source: ECU
 Aircraft Model: Bell 407
 ECU Version: 257-5400
 User Name: 30029
 ECU S/N: JG8ALK0565
 Turbine S/N: CAT-44732
 Eng Gearbox S/N: CAG-47508

Data Time: 9/12/17 1:11:54 PM
 Engine Model: 250-C47B
 ID: E844
 Engine S/N: CAE-847508
 Compressor S/N: CAC-44994
 HMU S/N: JGALM0397
 Aircraft ID: 53465

Parameter	Value	Units	Description
ECUOpTm	2199.20	Hours	ECU Operating Time (counter)
EngRnTm	6571.98	Hours	Engine Operating (Running) Time (counter)
MGTLMpk	0.0	Deg F	MGT Limit Exceedance Peak
MGTLMtm	0.00	Seconds	MGT Limit Exceedance Time
MGTRLmpk	0.0	Deg F	MGT Run Limit Exceedance Peak
MGTRLtm	0.00	Seconds	MGT Run Limit Exceedance Time
MGTSLmpk	0.0	Deg F	MGT Start Limit Exceedance Peak
MGTSLtm	0.00	Seconds	MGT Start Limit Exceedance Time
MGTSLRmpk	0.0	Deg F	MGT Start Run Limit Exceedance Peak
MGTSLRtm	0.00	Seconds	MGT Start Run Limit Exceedance Time
NgLmpk	0.00	%Ng	Ng Limit Exceedance Peak
NgLtm	0.00	Seconds	Ng Limit Exceedance Time
NgRLmpk	0.00	%Ng	Ng Run Limit Exceedance Peak
NgRLtm	0.00	Seconds	Ng Run Limit Exceedance Time
NpRLmpk	0.00	%Np	Np Run Limit Exceedance Peak Value
NpRLtm	0.00	Seconds	Np Run Limit Exceedance Time
NumStrt	10826	Starts	Number of Engine Starts
OSCyc	A	Boolean	Overspeed Cycle
QLmpk	0.0	%Q	Q Limit Exceedance Peak
QLtm	0.00	Seconds	Q Limit Exceedance Time
QRLmpk	0.0	%Q	Q Run Limit Exceedance Peak
QRLtm	0.00	Seconds	Q Run Limit Exceedance Time
QXLmpk	0.0	%Q	Q Transient Limit Exceedance Peak Value
QXLtm	0.00	Seconds	Q Transient Limit Exceedance Time
SgCtr	0	Surges	Number of Surge Occurrences Counter
EngRunCtr	0.00	Seconds	Engine Run Time Interval Counter
NpLmpk	0.00	%Np	Np Limit Exceedance Peak Value
NpLtm	0.00	Seconds	Np Limit Exceedance Time
OSCtr	0	Events	Engine Overspeed Counter
SpareData1	0	packed word	
SpareData2	0	packed word	
SpareData3	0	packed word	
SpareData4	0	packed word	
SpareData5	0	packed word	
SpareData6	0	packed word	
NpLmEvts	0	Counts	Np Limit Exceedance Events
NpRLmEvts	0	Counts	Np Run Limit Exceedance Events
NpMLmEvts	0	Counts	Np Max Limit Exceedance Count
NpExcInd	FALSE	Boolean	Np Exceedance Indication for Engine Maintenance
EngRunCtrDummy	0	packed word	
EmData_Chksum	62708	packed word	

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC
 Description: JG8ALK0565 - ACCIDENT INVESTIGATION

E
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9/12/17

Snapshot	TypeWrd1	TypeWrd2	Time Stamp HH:MM:SS.mmm	NgInRcrd %Ng	NrInRcrd %Nr	MGTInRcrd Deg F	QInRcrd %Q	NpInRcrd %Np	WfActInRcrd pph	NDOTFilt %Ng/Sec	PIInRcrd psia	Mode	CPInRcrd %CP	ESW Counts	ESW2 Counts	ESW3 Counts	ESW4 Counts	ESW5 Counts	ESW6 Counts	NDOTWrcd	PLAINRcrd Deg PLA	TIInRcrd Deg F	EngRnTm	EngRnCtr	Spare1	Spare2	Spare3	Spare4	
E 1	0x0020	0x0000	6572:01:04.824	104	95	1480	110	95	488	4.7	13.46	1	34	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	18	68	80	49290	2701	10826*	0	0	0	0
E 2	0x0004	0x0000	6572:01:08.616	75	108	860	0	105	36	-13.4	13.76	1	60	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	1	66	82	49290	2859	10826*	0	0	0	0
E 3	0x0002	0x0000	6572:01:09.912	76	91	1080	26	91	212	9.1	13.75	1	54	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	7	64	82	49290	2913	10826*	0	0	0	0
E 4	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 5	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 6	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 7	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 8	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 9	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0
E 10	0x0000	0x0000	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0	0

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC

Description: J68ALK0565 - ACCIDENT INVESTIGATION

Record	Time Stamp	NgInRcrd	NrInRcrd	MGTInRcrd	QInRcrd	NpInRcrd	WfActInRcrd	NDOTFilt	PLInRcrd	Mode	CPInRcrd	ESW	ESW2	ESW3	ESW4	ESW5	ESW6	NDOTWRCd	PLAInRcrd	TLInRcrd	EngnRtm	EngnRctr	Spare1	Spare2	Spare3	Spare4
	HH:MM:SS.mmm	%Ng	%Nr	Deg F	%Q	%Np	pph	%Ng/Sec	psia		%CP	Counts	Counts	Counts	Counts	Counts	Counts		Deg PLA	Deg F						
E 1	6572:00:53.640	96	100	1240	66	100	304	0.8	13.32	1	50	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	4	70	80	49290	2235	10826*	0	0	0
E 2	6572:00:54.840	94	100	1180	56	100	224	-5.6	13.29	1	40	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	4	70	80	49290	2285	10826*	0	0	0
E 3	6572:00:56.040	94	100	1180	56	100	268	0.4	13.30	1	44	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	4	70	80	49290	2335	10826*	0	0	0
E 4	6572:00:57.240	95	101	1220	62	101	240	-0.5	13.30	1	38	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	23	70	80	49290	2385	10826*	0	0	0
E 5	6572:00:58.440	90	99	1100	42	99	240	-0.5	13.29	1	40	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	23	70	80	49290	2435	10826*	0	0	0
E 6	6572:00:59.640	99	97	1360	82	97	364	6.9	13.33	1	16	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	4	70	80	49290	2485	10826*	0	0	0
E 7	6572:01:00.840	100	102	1360	80	102	300	-3.1	13.30	1	14	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	23	68	80	49290	2535	10826*	0	0	0
E 8	6572:01:02.040	93	100	1160	48	101	160	-9.2	13.33	1	28	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	23	68	80	49290	2585	10826*	0	0	0
E 9	6572:01:03.240	91	96	1140	54	95	296	3.7	13.43	1	30	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	7	68	80	49290	2635	10826*	0	0	0
E 10	6572:01:04.440	101	93	1420	104	93	488	9.1	13.36	1	34	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	7	68	80	49290	2685	10826*	0	0	0
E 11	6572:01:05.640	105	97	1520	112	97	488	0.7	13.44	1	38	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	6	68	80	49290	2735	10826*	0	0	0
E 12	6572:01:06.840	104	103	1500	96	103	388	-4.9	13.50	1	42	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	23	68	82	49290	2785	10826*	0	0	0
E 13	6572:01:08.040	84	105	1020	10	105	36	-22.5	13.70	1	54	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	1	66	82	49290	2835	10826*	0	0	0
E 14	6572:01:09.240	71	105	840	0	104	116	-1.3	13.75	1	60	0x0024	0x0000	0x0000	0x0000	0x2090	0x8080	24	64	82	49290	2885	10826*	0	0	0
E 15	6572:01:10.440	82	90	1260	28	90	248	10.6	13.78	1	54	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	7	64	82	49290	2935	10826*	0	0	0
E 16	6572:01:11.640	93	90	1360	36	91	360	9.2	13.87	1	68	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	7	68	82	49290	2985	10826*	0	0	0
E 17	6572:01:12.840	103	89	1500	34	89	500	4.8	13.95	1	40	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	24	72	82	49290	3035	10826*	0	0	0
E 18	6572:01:14.040	100	99	1360	82	100	364	1.6	14.04	1	2	0x0024	0x0000	0x0000	0x0000	0x0090	0x8080	4	82	82	49290	3085	10826*	0	0	0
E 19	00:00:00.000	86	0	1260	66	85	140	-11.8	14.19	1	0	0x0004	0x0000	0x0004	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 20	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 21	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 22	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 23	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 24	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 25	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 26	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 27	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 28	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 29	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 30	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 31	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 32	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 33	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC

Description: JG8ALK0565 - ACCIDENT INVESTIGATION

Record	Time Stamp	MgInRcrd	NrInRcrd	MGTInRcrd	QInRcrd	NpInRcrd	WfactInRcrd	NDOTFilt	PIInRcrd	Mode	CPInRcrd	ESW	ESW2	ESW3	ESW4	ESW5	ESW6	NDOTWcrd	PLAInRcrd	TLInRcrd	EngRnTm	EngRnCtr	Spare1	Spare2	Spare3	Spare4
	HH:MM:SS.mmm	%Hg	%Nr	Deg F	%Q	%Np	pph	%Hg/Sec	psia		%CP	Counts	Counts	Counts	Counts	Counts	Counts		Deg PLA	Deg F						
E 34	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 35	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 36	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 37	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 38	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 39	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 40	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 41	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 42	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 43	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 44	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 45	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 46	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 47	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 48	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 49	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 50	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 51	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 52	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 53	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 54	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 55	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 56	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 57	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 58	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 59	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 60	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 61	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 62	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 63	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 64	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 65	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 66	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC
Description: JGBALK0565 - ACCIDENT INVESTIGATION

Record	Time Stamp	NgInRcrd	NrInRcrd	MGTInRcrd	QInRcrd	NpInRcrd	WfActInRcrd	NDOTFlt	PLInRcrd	Mode	CPInRcrd	ESW	ESW2	ESW3	ESW4	ESW5	ESW6	NDOTWRcd	PLAInRcrd	TLInRcrd	EngnRtm	EngnCtr	Spare1	Spare2	Spare3	Spare4
	HH:MM:SS.mmm	%Ng	%Nr	Deg F	%Q	%Np	pph	%Ng/Sec	psia		%CP	Counts	Counts	Counts	Counts	Counts	Counts		Deg PLA	Deg F						
E 67	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 68	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 69	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 70	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 71	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 72	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 73	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 74	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 75	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 76	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 77	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 78	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 79	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 80	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 81	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 82	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 83	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 84	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 85	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 86	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 87	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 88	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 89	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 90	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 91	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 92	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 93	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 94	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 95	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 96	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 97	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 98	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 99	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC

Description: JG8ALK0565 - ACCIDENT INVESTIGATION

Record	Time Stamp	NgInRcrd	NrInRcrd	MGTInRcrd	QInRcrd	NpInRcrd	WFactInRcrd	NDOTFilt	PIInRcrd	Mode	CPInRcrd	ESW	ESW2	ESW3	ESW4	ESW5	ESW6	NDOTWRcd	PLAINRcrd	TIInRcrd	EngRnTm	EngRnCtr	Spare1	Spare2	Spare3	Spare4
	HH:MM:SS.mmm	%Ng	%Nr	Deg F	%Q	%Np	pph	%Ng/Sec	psia		%CP	Counts	Counts	Counts	Counts	Counts	Counts		Deg PLA	Deg F						
E 100	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 101	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 102	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 103	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 104	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 105	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 106	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 107	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 108	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 109	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 110	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 111	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 112	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 113	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 114	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 115	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 116	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 117	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 118	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 119	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 120	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 121	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 122	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 123	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 124	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 125	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 126	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 127	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 128	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 129	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 130	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 131	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 132	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0

ECU Version: C-00257-5400 E844 Date Extracted: 09/12/17 17:12:40 UTC
Description: J68ALK0565 - ACCIDENT INVESTIGATION

Record	Time Stamp HH:MM:SS.mmm	NgInRcrd %Ng	NrInRcrd %Nr	MGTInRcrd Deg F	QInRcrd %Q	NpInRcrd %Np	WfActInRcrd pph	NDOTFilt %Ng/Sec	PLInRcrd psia	Mode	CPInRcrd %CP	ESW Counts	ESW2 Counts	ESW3 Counts	ESW4 Counts	ESW5 Counts	ESW6 Counts	NDOTWRCd	PLAInRcrd Deg PLA	TLInRcrd Deg F	EngnTm	EngnCtr	Spare1	Spare2	Spare3	Spare4
E 133	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 134	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 135	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 136	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 137	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 138	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 139	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 140	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 141	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 142	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 143	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 144	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 145	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 146	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 147	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 148	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 149	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0
E 150	00:00:00.000	0	0	0	0	0	0	0.0	0.00	0*	0	0x0000	0x0000	0x0000	0x0000	0x0000	0x0000	0*	0	0	0	0	0	0	0	0