

JH-ACU-4D

FRAM & RAM Memory Map



Version	Date	Description	Editor
1.0	2009.6.19		Wangchaosheng
1.1	2009.6.23		Wangchaosheng
1.2	2010.01.26	FRAM 增加了0xC0`~0xDF内容	Wangchaosheng
1.3	2011.03.08	RAM 增加了： 1、 Vehicle Option :0X20C6 2、 Para_squib :0X2200	Wangchaosheng
1.4	2011.04.04	1、修改了DFLASH_MAP中 Option Section	wangchaosheng
1.5	2011.04.20	1、修改了DFLASH_MAP中 Squib Section	wangchaosheng
1.6	2011.04.28	1、修改了DFLASH_MAP中 Squib Section	wangchaosheng
1.7	2011.07.19	1、修改了FRAM_MAP,增加了 “SCON”	wangchaosheng
	2011.08.05	2、修改了 FRAM_MAP,与生产线 有关的数据地址	wangchaosheng

1.8	2011.08.08	3、重新定义了OEM_ID information	
1.9	2011.11.23	1、修改了RAM_MAP 中WD2和WD3的地址 2、修改了DFLASH_MAP SideAlgo的地址	wangchaosheng
2	2012.09.20	修改了RAM的定义-Vehicle_Option	
2.1	2013.06.07	修改了FRAM中定义ACU生产日期 该错误是由于本次定义有误，而非重定义	wangchaosheng
2.2	2014.01.02	FRAM中，分配了专用区域用于IRAN SPM Project ID	
2.3	2014.01.11	增加故障的存储区域	wangchaosheng
2.4	2014.06.17	1.DFLASH中，修改了Side Algo PARA地址（修改与实际地址一致）	wangchaosheng
2.5	2014.06.25	1.DFLASH增加了 ACU Id的写入 2.更新了RAM的地址定义	wangchaosheng wangchasoheng

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JH-ACU-4D FRAM Memory Map (2014.01.11)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	
0x0	00	Firestate1Value	Firestate2	FaultContinuousTime	Empty	DABCur	PABCur	DPTCur	PPTCur	DSABCur	PSABCur	DCABCur	PCABCur		
	10	Firestate1Value	Firestate2	FaultContinuousTime	Empty	DABCur	PABCur	DPTCur	PPTCur	DSABCur	PSABCur	DCABCur	PCABCur		
	20	Firestate1Value	Firestate2	FaultContinuousTime	Empty	DABCur	PABCur	DPTCur	PPTCur	DSABCur	PSABCur	DCABCur	PCABCur		
	30	Firestate1Value	Firestate2	FaultContinuousTime	LC_F	DABCur	PABCur	DPTCur	PPTCur	DSABCur	PSABCur	DCABCur	PCABCur		
	40	FiredValue	FstFire	PT FireN	LC F	LC SD		LC SP							
50	Front Crash Info														
60	Front Crash Info														
70	Front Crash Info														
80	Front Crash Info														
90	Front Crash Info														
A0	P-Loss	NOT USED													
B0	Front Crash Info. (PT)														
C0	Fault Config	CG10X-ADC						Diag cur	WD Fir	WD Se	VER Fi	VER S	VER th	VER Fc	
D0	VER Fir	VER S	VER th	VER Fou	Aout Sel	Aout Sel	Aout Sel	Aout Sel	Aout S	Aout Sel					
E0	AOUT_Amp														
F0															
0x1	00	A_0.5m													
	10	A_0.5m													
	20	A_0.5m													
	30	A_0.5m													
	40	Side Acc_Data_Driver Front #1													
50	Side Acc_Data_Driver Front #1														
60					SafingT	Fire DSAE	Fire DCAE	Fire RDS	OP High	OP Mid	OP Low	OP 100m	GN C f		
70	TTF	Vbatt	FV DSAE	FV DCAE	FV RDSB	R DSB	R DCAB	R RDSB	FireCNT	NC CNT	FireLeve	SCON			
80	A_0.5m														
90	A_0.5m														
A0	A_0.5m														
B0	Side Acc_Data_Driver Front #2														
C0	Side Acc_Data_Driver Front #2														
D0	Side Acc_Data_Driver Front #2														
E0					SafingT	Fire DSAE	Fire DCAE	Fire RDS	OP High	OP Mid	OP Low	OP 100m	GN C f		
F0		Vbatt	FV DSAE	FV DCAE	FV RDSB	R DSB	R DCAB	R RDSB	FireCNT	NC CNT	FireLeve	SCON			
0x2	00	ICT	ICT	ICT	ICT	ICT	ICT	ICT	ICT	ICT	ICT	Load O	Unld O	Shk O	
	10	ACCX1	ACCX2	ACCX3	ACCX4	ACCX5	ACCY1	ACCY2	ACCY3	ACCY4	ACCY5				
	20	ECU Serial No.			Label ver.			MLFB			Param. Ver.				
	30	OPCOUNT			OP Help				ATCNT						
	40	Manufacture(YMMDD) ASCII							FRcnt						Samanc
50	FC[0]	Fault FirstTime[0]			FFI-ML[0]		FC[1]	Fault FirstTime[1]		FFI-ML[1]		FC[2]	Fault		
60	FFI-ML[2]		FC[3]	Fault FirstTime[3]			FFI-ML[3]		FC[4]	Fault FirstTime[4]		FFI-ML[4]			
70	Fault FirstTime[5]		FFI-ML[5]		FC[6]	Fault FirstTime[6]			FFI-ML[6]		FC[7]	Fault FirstTime[7]			
80															
90															
A0	FrCr rcd	CNT	PTCr rcd	CNT	DSCr rcd	CNT	PSCr rcd	CNT		F PORIN	CapF	F Cap	PDCNT	PDCNT1	
B0	IGN C f	HGN C f	IGN C f	Checksum	IGN CYCLE W/ WL On				Clr CNT	Last Clr OPC					
C0															
D0				AUT F					SBL F	SBL Spd					
E0	Pmode	LRunInM													
F0															
0x3	00	A_0.5m													
	10	A_0.5m													
	20	A_0.5m													
	30	A_0.5m													
	40	Side Acc_Data_Passenger Front #1													
50	Side Acc_Data_Passenger Front #1														
60					SafingT	Fire PSAE	Fire PCAE	Fire RPS	OP High	OP Mid	OP Low	OP 100m	GN C f		
70	TTF	Vbatt	FV PSAE	FV PCAE	FV RPSB	R DSB	R DCAB	R RDSB	FireCNT	NC CNT	FireLeve	SCON			
80	A_0.5m														
90	A_0.5m														
A0	A_0.5m														
B0	Side Acc_Data_Passenger Front #2														
C0	Side Acc_Data_Passenger Front #2														
D0	Side Acc_Data_Passenger Front #2														
E0					SafingT	Fire PSAE	Fire PCAE	Fire RPS	OP High	OP Mid	OP Low	OP 100m	GN C f		
F0		Vbatt	FV PSAE	FV DCAE	FV RDSB	R DSB	R DCAB	R RDSB	FireCNT	NC CNT	FireLeve	SCON			
0x4	00	Driver Front Side Crash Info.													
	10	NOT USED													
	20														
	30	Driver Rear Side Crash Info.												UOT I	
	40														
50	Passenger Front Side Crash Info.														
60	NOT USED														
70															
80	Passenger Rear Side Crash Info.												NOT I		

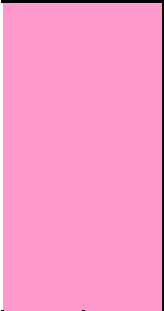
90															
A0															
B0															
C0	SafingT	Fire DI	Fire FI	Fire DT	I Fire PT	OP High	OP Mid	OP Low	OP 100m	GN C	IGN C	NGN C	DABTTF		
D0	Vbatt	FV DAB	FV PAB	FV DRPT	FV PRPT	R DAB	R PAB	R DRPT	R PRPT	FireLeve	SCON				
E0	SafingT	Fire DI	Fire FI	Fire DT	I Fire PT	OP High	OP Mid	OP Low	OP 100m	GN C	IGN C	NGN C	L		
F0	Vbatt	FV DAB	FV PAB	FV DRPT	FV PRPT	R DAB	R PAB	R DRPT	R PRPT	FireLeve	SCON				
0x5	00	A_1ms													
10															
20															
30															
40															
50															
60		Front Acc_Data #1													
70															
80															
90															
A0															
B0															
C0															
D0															
E0															
F0															
0x6	00		Fault Status		FC[0]	Fault FirstTime[0]			FC[1]	Fault FirstTime[1]		FC[2]	Fault		
10		FC[3]	Fault FirstTime[3]		FC[4]	Fault FirstTime[4]			FC[5]	Fault FirstTime[5]		FC[6]	Fault		
20		FC[7]	Fault FirstTime[7]		FC[8]	Fault FirstTime[8]			FC[9]	Fault FirstTime[9]		FC[10]	Fault		
30		FC[11]	Fault FirstTime[11]		FC[12]	Fault FirstTime[12]			FC[13]	Fault FirstTime[13]		FC[14]	Fault		
40		FC[15]	Fault FirstTime[15]		F NOO[0]	Fault LastTime[0]			F NOO[1]	Fault LastTime[1]		F NOO[2]	Fault		
50		F NOO[3]	Fault LastTime[3]		F NOO[4]	Fault LastTime[4]			F NOO[5]	Fault LastTime[5]		F NOO[6]	Fault		
60		F NOO[7]	Fault LastTime[7]		F NOO[8]	Fault LastTime[8]			F NOO[9]	Fault LastTime[9]		F NOO[10]	Fault		
70		F NOO[11]	Fault LastTime[11]		F NOO[12]	Fault LastTime[12]			F NOO[13]	Fault LastTime[13]		F NOO[14]	Fault		
80		F NOO[15]	Fault LastTime[15]		WLOnOff	WOnOffH			WOnOffM	WOnOffL					
90															
A0															
B0		Vehicle name (ASCII)					OEM part number (ASCII)								
C0							OEM part name (ASCII)								
D0							Manufacturing date (ASCII.YY/MM/DD)								
E0		W H/W vers					HACO ECU ID 2								
F0		IRAN SPM PROJECT ID													
0x7	00	A_1ms													
10															
20															
30															
40															
50															
60		Front Acc_Data #2													
70															
80															
90															
A0															
B0															
C0															
D0															
E0															
F0															
0x8	00	A_0.5m													
10															
20															
30		Side Acc_Data_Driver Rear #1													
40															
50															
60					SafingT	Fire DSAE	Fire DCAE	Fire RDS	OP High	OP Mid	OP Low	OP 100m	GN C	H	
70		TTF	Vbatt	FV DSAE	FV PCAB	FV RPSB	R PSB	R PCAB	R RPSB	FireCNT	NC CNT	FireLeve	SCON		
80		A_0.5m													
90															
A0															
B0		Side Acc_Data_Driver Rear #2													
C0															
D0															
E0					SafingT	Fire DSAE	Fire DCAE	Fire RDS	OP High	OP Mid	OP Low	OP 100m	GN C	H	
F0			Vbatt	FV DSAE	FV PCAB	FV RPSB	R PSB	R PCAB	R RPSB	FireCNT	NC CNT	FireLeve	SCON		
0x9	00	A_0.5m													
10															
20															

30	Side Acc_Data_Passenger Rear #1													
40														
50														
60					SafingT	Fire PSAB	Fire PCAA	Fire RPSB	OP_High	OP_Mid	OP_Low	OP_100m	GN_C_H	
70	TTF	Vbatt	FV_PSA	FV_PCAB	FV_RPSB	R_PSB	R_PCAB	R_RPSB	FireCNT	NC_CNT	FireLeve	SCON		
80	A_0.5m													
90														
A0														
B0	Side Acc_Data_Passenger Rear #2													
C0														
D0														
E0					SafingT	Fire PSAB	Fire PCAA	Fire RPSB	OP_High	OP_Mid	OP_Low	OP_100m	GN_C_H	
F0		Vbatt	FV_PSA	FV_PCAB	FV_RPSB	R_PSB	R_PCAB	R_RPSB	FireCNT	NC_CNT	FireLeve	SCON		
0xA	00													
	10													
	20													
	30													
	40													
	50													
	60													
	70													
	80													
	90													
	A0													
	B0													
	C0													
	D0													
	E0													
	F0													
0xB	00													
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	70													
	80													
	90													
	A0													
	B0													
	C0													
	D0													
	E0													
	F0													
0xC	00													
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	50													
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	70													
	80													
	90													
	A0													
	B0													
	C0													
	D0													
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	F0													
0xD	00													

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E	F
RDABCur	RPABCur
RDABCur	RPABCur
RDABCur	RPABCur
RDABCur	RPABCur
ur	
GN C	MGN C L
GN C	MGN C L
PreFnl	FnL Ok
3 (ASCII Y-M-D)	
FirstTime[2]	
FC[5]	
FFI-ML7]	
PDCNT2	PDCNT3
GN C	MGN C L
GN C	MGN C L
USED	
USED	

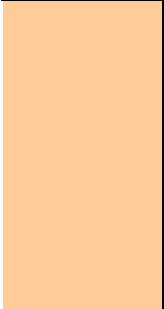
PABTTF	PTTTF

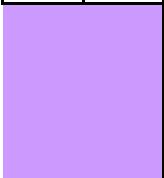


FirstTime[2]
FirstTime[6]
FirstTime[10]
FirstTime[14]
LastTime[2]
LastTime[6]
LastTime[10]
LastTime[14]

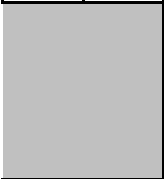


ECU ID 1





GN C	NGN C L



GN C	NGN C L



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JH-ACU-4D DFLASH Memory Map (2014.06.18)

[illegible]

[illegible]

JH-ACU-4D RAM Memory Map (2014.06.25)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0x20	00	AccX	AccY	AccX_z	AccY_z	SISAcc0	SISAcc1	SISAcc2	SISAcc3	SISAz0	SISAz1	SISAz2	SISAz3	SIS_OK		IGN	
	10	DSB	PSB	PADS	WL_STE	WL_STG	VL2_ST	VL2_STB		FV_DAE	FV_PAE	FV_DBP	FV_PBP	FV_DSA	FV_PSA	FV_DCA	FV_PCA
	20	V_RDSA	V_RPSA	TB_DAS	TB_PAT	TB_DBP	TB_PBP	TB_DSAT	TB_PSA	TB_DCAT	TB_PCA	B_RDS	B_RPS	TG_DAS	TG_PAT	TG_DBP	TG_PBP
	30	TG_DSA	TG_PSA	TG_DCA	TG_PCA	G_RDS	G_RPS	SQ_DAS	SQ_PAS	SQ_DBP	SQ_PBP	Q_DSA	Q_PSA	Q_DCA	Q_PCA	Q_RDS	Q_RPS
	40	LS_DAB	LS_PAB	S_DBP	S_PBP	S_DSAL	S_PSA	S_DCAL	S_PCA	S_RDS	S_RPS	HS_DAE	HS_PAE	HS_DBP	HS_PBP	HS_DSAL	HS_PSA
	50	IS_DCA	IS_PCA	S_RDS	S_RPS	S_DSAL	S_PSA	S_DCAL	S_PCA	S_RDS	S_RPS	HS_DAE	HS_PAE	79	80	81	82
	60	83	84	85	86	87	89	90									
	70																
	80	OP_H	OP_M	OP_L	OP_Flag	IGN_CNT				IGN_CNT_WL_ON							
	90	Vbatt	FV_DAB	FV_PAE	V_DRP	V_PRPT	V_DSA	V_PSA	V_DCA	V_PCA	V_RDS	V_RPS	VAS	R_DAB	R_PAB	R_DPT	R_PPT
	A0	R_DSAB	R_PSAB	R_DCA	R_PCA	R_RDS	R_RPS	STPS/B									
	B0													CSMask_D_BU	CSMask_P_BU		
	C0	WL2	FireStates1	FStat2	WD_St		COUT	Squib_Opt	WL_Op	BPT/STP	SIS_Op	SIS_Typ	Assign	Assign	Assign	Assign	Assign
	D0	Assign	Assign	Assign	Assign	Assign	Assign	Assign	RIS_Position	AccS_Op	ACCID	CG10X	F_mode	WL_Log	WL_Log	Belt_Log	Belt_Log
	E0	Belt_Log	Belt_Log	Belt_Log	Belt_Log	Belt_Ch	Belt_Ch	Belt_Ch	WL_Ch	WL_Ch	Chan_Dired	Empty	Empty	CHKSUM			
	F0																
0x21	00																
	10																
	20																
	30																
	40																
	50																
	60																
	70																
	80																
	90																
	A0																
	B0																
	C0	ver_Fir	ver_Sec	ver_Thir	ver_Four												
	D0																
	E0																
	F0																
0x22	00	Squib_Res[0]				Squib_Res[1]				Squib_Res[2]				Squib_Res[3]			
	10	Squib_Res[4]				Squib_Res[5]				Squib_Res[6]				Squib_Res[7]			
	20	Squib_Res[8]				Squib_Res[9]				Belt_R_D				Belt_R_P			
	30	Belt_C_D				Belt_C_P				PADS_C_P				PADS_R_P			
	40	COUT	WL_C	CHKSUM													
	50																
	60																
	70																
	80																
	90																
	A0																
	B0																
	C0																
	D0																
	E0																
	F0																
0x23	00																
	10																
	20																
	30																
	40																
	50																
	60																
	70																
	80		idle_tm	idle_time	idle_max	idle_min		TEST									
	90																
	A0																
	B0																
	C0																
	D0																
	E0																
	F0																

0x24	00																
	10																
	20																
	30																
	40																
	50																
	60	Front Algo. Variables															
	70																
	80																
	90																
	A0																
	B0																
	C0																
	D0																
	E0																
	F0																
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	10																
	20																
	30																
	40																
	50																
	60																
	70																
	80																
	90																
	A0																
	B0																
	C0	WD2	WD3														
	D0																
	E0																
	F0																
0x26	00																
	10																
	20																
	30																
	40																
	50																
	60																
	70																
	80																
	90																
	A0	Front Crash Algo_Parameters															
	B0																
	C0																
	D0																
	E0																
	F0																
0x27	00	checksum															
	10	CHKSUM															
	20																
	30																
	40																
	50																
	60																
	70																
	80																
	90																
	A0																
	B0																
	C0																
	D0																
	E0																
	F0																
0x28	00																
	10																
	20																
	30																

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