

JH-ACU-8A

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	2011.12.12	1、修改了FRAM的碰撞数据的记录方式 2、.FRAM增加了Injection config	wangchaosheng
2.1	2011.12.18	1.对RAM区的ALGO Vabiale 进行修改	wangchaosheng
22	2013.04.02	增加了CAN RAM定义	wangchaosheng
23	2013.07.23	增加了 生产日期 新的模块地址	wangchaosheng
24	2014.06.25	1.DFLASH增加了ID写入地址 2.RAM规范了变量地址	wangchaosheng
25	2014.10,30	1.FRAM 中增加了 00E0地址开始定义，主要是关于FAULT	wangchaosheng

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JH-ACU-8A FRAM Memory Map (2014.10.30)

		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F																							
0x0	00	Firestate1Value		Firestate2		FaultContinuousTime		Empty		DABCur		PABCur		DPTCur		PPTCur		DSABCur		PSABCur		DCABCur		PCABCur		RDABCur		RPABCur												
	10	Firestate1Value		Firestate2		FaultContinuousTime		Empty		DABCur		PABCur		DPTCur		PPTCur		DSABCur		PSABCur		DCABCur		PCABCur		RDABCur		RPABCur												
	20	Firestate1Value		Firestate2		FaultContinuousTime		Empty		DABCur		PABCur		DPTCur		PPTCur		DSABCur		PSABCur		DCABCur		PCABCur		RDABCur		RPABCur												
	30	Firestate1Value		Firestate2		FaultContinuousTime		LC_F		DABCur		PABCur		DPTCur		PPTCur		DSABCur		PSABCur		DCABCur		PCABCur		RDABCur		RPABCur												
	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 cl		WD Fir		WD Se		VER Fi		VER S		VER th		VER Four													
D0	VER Fir		VER S		VER th		VER Four																																	
E0	FC[0]		Fault_FirstTime[0]				FFI-ML[0]				FC[1]		Fault_FirstTime[1]				FFI-ML[1]				FC[2]		Fault_FirstTime[2]																	
F0	FFI-ML[2]				FC[3]		Fault_FirstTime[3]				FFI-ML[3]				FC[4]		Fault_FirstTime[4]				FFI-ML[4]						FRcnt													
0x1	00	A_0.5m																																						
	10	Side Acc_Data_Driver Front #1																																						
	20	Side Acc_Data_Driver Front #1																																						
	30	Side Acc_Data_Driver Front #1																																						
	40	Side Acc_Data_Driver Front #1																																						
50	Side Acc_Data_Driver Front #1																																							
60					SafingT				Fire_DS		Fire_DC		ire_RDS		OP_High		OP_Mid		OP_Low		OP_100m				IGN_C		IGN_C		IGN_C											
70	TTF		Vbatt		IV_DSA		IV_DCA		IV_RDS		IR_DSB		R_DCA		R_RDSE		FireCNT		INC_CNT		FireLeve		SCON																	
80	A_0.5m																																							
90	Side Acc_Data_Driver Front #2																																							
A0	Side Acc_Data_Driver Front #2																																							
B0	Side Acc_Data_Driver Front #2																																							
C0	Side Acc_Data_Driver Front #2																																							
D0	Side Acc_Data_Driver Front #2																																							
E0					SafingT				Fire_DS		Fire_DC		ire_RDS		OP_High		OP_Mid		OP_Low		OP_100m				IGN_C		IGN_C		IGN_C											
F0			Vbatt		IV_DSA		IV_DCA		IV_RDS		IR_DSB		R_DCA		R_RDSE		FireCNT		INC_CNT		FireLeve		SCON																	
0x2	00	ICT		ICT		ICT		ICT		ICT		ICT		ICT		ICT		ICT		ICT		Load_C		Unld_O		Shk_OK		PreFnL												
	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								Vehicle Produce Data																		
	40	Manufacture(YYMMDD) ASCII										Last service Data																												
50	vehicle ID Number(VIN)																																							
60	Customer Part number																																							
70	U_Option[0]										V_Option[1]		F_Option[2]		F_Option[3]		R_Option[4]		R_Option[5]		U_Chant[0]		V_Chant[1]		DF_Chant[2]		PF_Chant[3]		DR_Chant[4]		PR_Chant[5]		U_Logic[0]		V_Logic[1]		DF_Logic[2]		PF_Logic[3]	
80	DF_Logic[4]		PF_Logic[5]		U_Offset[0]		V_Offset[1]		DF_Offset[2]		PF_Offset[3]		DR_Offset[4]		PR_Offset[5]		checksum																							
90	checksum																																							
A0	FrtCr_rcd		CNT		PTCr_rc		CNT		DSCr_rc		CNT		PSCr_rc		CNT						F_POR_N		CapF		F_Cap		PDCNT1		PDCNT2		PDCNT3									
B0	IGN_C		IGN_C		IGN_C		Checksur		IGN_CYCLE		W/ WL On				Clr_CNT		Last Clr OPC																							
C0																																								
D0																																								
E0																																								
F0																																								
0x3	00	A_0.5m																																						
	10	Side Acc_Data_Passenger Front #1																																						
	20	Side Acc_Data_Passenger Front #1																																						
	30	Side Acc_Data_Passenger Front #1																																						
	40	Side Acc_Data_Passenger Front #1																																						
50	Side Acc_Data_Passenger Front #1																																							
60					SafingT				Fire_PS		Fire_PC		ire_RPS		OP_High		OP_Mid		OP_Low		OP_100m				IGN_C		IGN_C		IGN_C											
70	TTF		Vbatt		IV_PSA		IV_PCA		IV_RPS		IR_DSB		R_DCA		R_RDSE		FireCNT		INC_CNT		FireLeve		SCON																	
80	A_0.5m																																							
90	Side Acc_Data_Passenger Front #2																																							
A0	Side Acc_Data_Passenger Front #2																																							
B0	Side Acc_Data_Passenger Front #2																																							
C0	Side Acc_Data_Passenger Front #2																																							
D0	Side Acc_Data_Passenger Front #2																																							
E0					SafingT				Fire_PS		Fire_PC		ire_RPS		OP_High		OP_Mid		OP_Low		OP_100m				IGN_C		IGN_C		IGN_C											
F0			Vbatt		IV_PSA		IV_PCA		IV_RPS		IR_DSB		R_DCA		R_RDSE		FireCNT		INC_CNT		FireLeve		SCON																	
0x4	00	Driver Front Side Crash Info.																																						
	10	NOT USED																																						
	20																																							
	30	Driver Rear Side Crash Info.														UOT USED																								
	40																																							
50	Passenger Front Side Crash Info.																																							
60	NOT USED																																							
70																																								
80	Passenger Rear Side Crash Info.														NOT USED																									

0x5	90	Sector flag																
	A0	SafingT	I Fire D	I Fire P	I Fire D	I Fire P	OP High	OP Mid	OP Low	OP 100m	GN C	HGN C	MGN C	DABTTFF	PABTTFF	PTTTFF		
	B0	Vbatt	FV DAB	FV PAB	FV DRP	FV PRP	R DAB	R PAB	R DRP	R PRP	FireLevel	SCON						
	C0	SafingT	I Fire D	I Fire P	I Fire D	I Fire P	OP High	OP Mid	OP Low	OP 100m	GN C	HGN C	MGN C	DABTTFF	PABTTFF	PTTTFF		
	D0	Vbatt	FV DAB	FV PAB	FV DRP	FV PRP	R DAB	R PAB	R DRP	R PRP	FireLevel	SCON						
	E0	SafingT	I Fire D	I Fire P	I Fire D	I Fire P	OP High	OP Mid	OP Low	OP 100m	GN C	HGN C	MGN C	L				
0x6	F0	Vbatt	FV DAB	FV PAB	FV DRP	FV PRP	R DAB	R PAB	R DRP	R PRP	FireLevel	SCON						
	00	#1																
	10																	
	20																	
	30																	
	40																	
	50	#2																
	60	Front Acc_Data #X																
	70																	
	80																	
0x7	90	#3																
	A0																	
	B0																	
	C0																	
	D0																	
	E0																	
	F0																	
	00			Fault Status		FC[0]	Fault FirstTime[0]		FC[1]	Fault FirstTime[1]		FC[2]	Fault FirstTime[2]					
	10	FC[3]	Fault FirstTime[3]		FC[4]	Fault FirstTime[4]		FC[5]	Fault FirstTime[5]		FC[6]	Fault FirstTime[6]						
	20	FC[7]	Fault FirstTime[7]		FC[8]	Fault FirstTime[8]		FC[9]	Fault FirstTime[9]		FC[10]	Fault FirstTime[10]						
	30	FC[11]	Fault FirstTime[11]		FC[12]	Fault FirstTime[12]		FC[13]	Fault FirstTime[13]		FC[14]	Fault FirstTime[14]						
	40	FC[15]	Fault FirstTime[15]		NOO[0]	Fault LastTime[0]		NOO[1]	Fault LastTime[1]		NOO[2]	Fault LastTime[2]						
	50	NOO[3]	Fault LastTime[3]		NOO[4]	Fault LastTime[4]		NOO[5]	Fault LastTime[5]		NOO[6]	Fault LastTime[6]						
	60	NOO[7]	Fault LastTime[7]		NOO[8]	Fault LastTime[8]		NOO[9]	Fault LastTime[9]		NOO[10]	Fault LastTime[10]						
70	NOO[11]	Fault LastTime[11]		NOO[12]	Fault LastTime[12]		NOO[13]	Fault LastTime[13]		NOO[14]	Fault LastTime[14]							
80	NOO[15]	Fault LastTime[15]		WLOnOff	WOnOff	WOnOff	WOnOff											
0x8	90	System Supplier ID																
	A0	Read Customer Information																
	B0	CarMode	PAS_Driver										PAS_Passenger					
	C0						Read system ID											
	D0	HW	SW			System Name												
	E0	Vehicle Speed Record																
	F0																	
	00	#1																
	10																	
	20																	
30																		
40																		
50	#2																	
60	Front Acc_DataY																	
70																		
80																		
90																		
0x9	A0	#3																
	B0																	
	C0																	
	D0																	
	E0																	
	F0																	
	00	A_0.5m																
	10																	
	20																	
	30	Side Acc_Data_Driver Rear #1																
40																		
50																		
60				SafingT	I Fire DS	I Fire DC	I Fire RDS	OP High	OP Mid	OP Low	OP 100m	GN C	HGN C	MGN C	L			
70	TTF	Vbatt	I V DSA	I V PCA	I V RPS	R PSB	R PCA	R RPSE	FireCNT	N C CNT	FireLevel	SCON						
80	A_0.5m																	
90																		
A0	Side Acc_Data_Driver Rear #2																	
B0																		
C0																		
D0																		
E0																		
F0		Vbatt	I V DSA	I V PCA	I V RPS	R PSB	R PCA	R RPSE	FireCNT	N C CNT	FireLevel	SCON						
0x9	00	A_0.5m																

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[illegible]

JH-ACU-8A DFLASH Memory Map (2013.5.7)

[illegible]

[illegible]

[illegible]

JH-ACU-8A 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 ST	WL ST	WL2 ST	WL2 ST		FV DAE	FV PAE	FV DBP	FV PBP	FV DSA	FV PSA	FV DCA	FV PCAB	
	20	V RDSA	V RPSA	TB DAB	TB PAIT	TB DBIT	TB PBIT	TB DSA	TB PSA	TB DCA	TB PCA	B RDS	B RPS	TG DAB	TG PAIT	TG DBIT	TG PBIT	
	30	TG DSA	TG PSA	TG DCA	TG PCA	G RDS	G RPS	SQ DAE	SQ PAE	Q DBP	Q PBP	Q DSA	Q PSA	Q DCA	Q PCA	Q RDS	Q RPSAB	
	40	LS DAB	LS PAB	S DBP	S PBP	S DSA	S PSA	S DCA	S PCA	S RDS	S RPSA	HS DAE	HS PAE	HS DBP	HS PBP	HS DSA	HS PSAB	
	50	IS DCA	HS PCA	S RDS	S RPSA	S DSA	S PSA	S DCA	S PCA	S RDS	S RPSA	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	FV_DRP	FV_PRP	FV_DSA	FV_PSA	FV_DCA	FV_PCA	FV_RDS	FV_RPS	VAS	R_DAB	R_PAB	R_DPT	R_PPT	
A0	R_DSA	R_PSA	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_Tyr	Assign	Assign	Assign	Assign	Assign	Assign	
D0	Assign	Assign	Assign	Assign	Assign	Assign	Assign	RIS_Position	accS_Or	ACCID	CG10X	F_mode	WL_Loc	WL_Loc	Belt_Loc	Belt_Loc	Belt_Loc	
E0	Belt_Lo	Belt_Loc	Belt_Lo	Belt_Lo	Belt_Ch	Belt_Ch	Belt_Ch	WL_Ch	WL_Ch	Chn_Direc	Empty	Empty	CHKSUM					
F0																		
0x21	00																	
	10																	
	20																	
	30																	
	40																	
	50																	
	60																	
	70																	
	80																	
	90																	
A0																		
B0																		
C0	ver_First	ver_Sec	ver_Thir	ver_Four														
D0																		
E0																		
F0					CKSM	Crsh_rcdd												
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																		
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	60																	
	70																	
	80		idle_tm	idle_tim	idle_max	idle_min		TEST										
	90																	
A0																		
B0																		
C0																		
D0																		
E0																		
F0																		

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40							Side Algo. Variables											
50																		
60																		
70																		
80																		
90																		
A0																		
B0																		
C0																		
D0																		
E0																		
F0																		
0x29	00																	
	10																	
	20																	
	30																	
	40						Side Algo. Parameters											
	50																	
	60																CS	
	70																	
	80																	
	90																	
	A0																	
	B0																	
	C0																	
	D0																	
	E0																	
	F0																	
0x2A	00	NoFault																
	10																	
	20																	
	30																	
	40																	
	50																	
	60																	
	70																	
	80	CANMID	CANCTL1	CANBTR	CANBTR	CANIDAR	CANIDAR	CANIDAR	CANIDAR	CANIDAR	CANIDAR	CANIDAR	CANIDAR	CANIDMF	CANIDMF	CANIDMR2		
	90	ANIDMF	CANIDMR	ANIDMF	ANIDMF	ANIDMF	RcvPhysicalID	RcvPhysicalID	RcvESPID	RcvICID	SendPhysicalID	endSignal						
	A0	ID	SPDiagDelayTime	CDiagDelayTime	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty		
	B0	Empty	Empty	Empty	Empty	Empty	CHKSUM											
	C0																	
	D0																	
	E0																	
	F0																	
0x2B	00																	
	10																	
	20																	
	30																	
	40																	
	50																	
	60																	
	70																	
	80																	
	90																	
	A0																	
	B0																	
	C0																	
	D0																	
	E0																	
	F0																	
0x2C	00																	
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