SWA SVT-1 EAS2
File: IA-SVT-152.xls
Author: daniel lakey

Procedure Summary

Objectives

SWA SVT-1 EAS2

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

EAS1 ON
EAS2 OFF

End of Procedure

EAS1 OFF
EAS2 OFF

Reference File(s)

Input Command Sequences

Output Command Sequences

AIAV152A

Referenced Displays

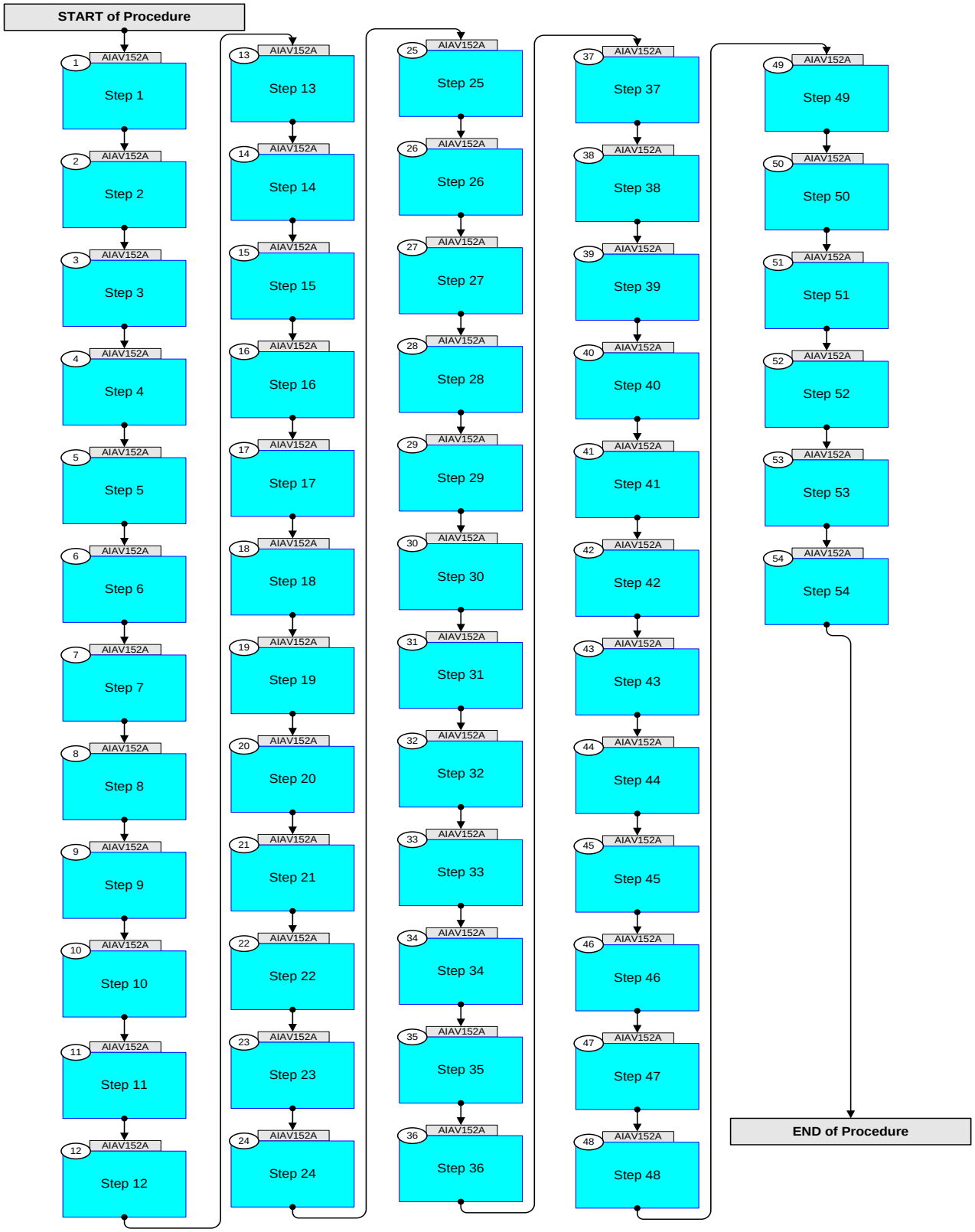
ANDs **GRDs** **SLDs**

(None)

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/11/2018		0.01	Initial check-in	dlakey	M7
02/11/2018		0.01	Renamed to SVT range	dlakey	M7
02/11/2018		1	Updated absolute -> relative times	dlakey	M7
14/02/2019		2	Updated to V2	dlakey	M7
01/03/2019		3	Updated to v3 of inputs from SWA	dlakey	M7

Procedure Flowchart Overview



solar orbiter

esa

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Beginning of Procedure		
	AIAV152A	Beginning of Sequence **SWA SVT-1 EAS2** TimeTag type : B		
1		**Step 1** ***Next step(s):*** -> **2**		
		v3		
		Power on EAS2		
	+00.00.00	**Send SWA_TC_EAS2_ON** **ZIA58803 SWA_TC_EAS2_ON** TC Control Flags: GBM IL DSE **--Y NC ---**		
2		**Step 2** ***Next step(s):*** -> **3**		
		Enable EAS2 HK		
	+00.01.00	**Send SWA_TC_HK_EN** **ZIA58050 SWA_TC_HK_EN** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA58050** TMSID **= EAS2_SENS_HK**		
3		**Step 3** ***Next step(s):*** -> **4**		
		Clear Sequence Shared RAM		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_CLEAR_RAM** **ZIA58811 SWA_TC_EAS2_CLEAR_RAM** TC Control Flags: GBM IL DSE **--Y NC ---**		
4		**Step 4** ***Next step(s):*** -> **5**		
		Write master control register		
	+00.00.30	**Send SWA_TC_EAS2_MASTER_REG_WRITE** **ZIA58824 SWA_TC_EAS2_MASTER_REG_WRITE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60423** BYTE_0 **= 0 <hex>** **PIA60424** BYTE_1 **= 0 <hex>** **PIA60425** BYTE_2 **= 60 <hex>**		
		Turn EAS2 preamp1 on		
	+00.00.15	**Send SWA_TC_EAS2_PRE_AMP_WRITE** **ZIA58825 SWA_TC_EAS2_PRE_AMP_WRITE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA58066** PRE_AMP1 **= ON** (Def) **PIA58067** PRE_AMP2 **= OFF**		
5		**Step 5** ***Next step(s):*** -> **6**		
		Turn EAS2 preamp2 on		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.15	**Send SWA_TC_EAS2_PRE_AMP_WRITE** **ZIA58825 SWA_TC_EAS2_PRE_AMP_WRITE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA58066** PRE_AMP1 **= ON** (Def) **PIA58067** PRE_AMP2 **= ON** (Def)		
6		**Step 6** ***Next step(s):*** -> **7**		
		Upload sequence table		
	+00.00.15	**Send SWA_TC_EAS2_SEQ_TABLE_UPLOAD** **ZIA58820 SWA_TC_EAS2_SEQ_TABLE_UPLOAD** TC Control Flags: GBM IL DSE **--Y NC ---**		
7		**Step 7** ***Next step(s):*** -> **8**		
		Set the deflection scan ratio table		
	+00.00.30	**Send SWA_TC_EAS2_SET_DEFL_SCAN_RATIO** **ZIA58813 SWA_TC_EAS2_SET_DEFL_SCAN_RATIO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60474** VAL_0 **= 80 <hex>** **PIA60475** VAL_1 **= 0 <hex>** **PIA60578** VAL_2 **= 0 <hex>** **PIA60589** VAL_3 **= 0 <hex>** **PIA60600** VAL_4 **= 0 <hex>** **PIA60611** VAL_5 **= 0 <hex>** **PIA60622** VAL_6 **= 80 <hex>** **PIA60633** VAL_7 **= 0 <hex>** **PIA60644** VAL_8 **= 0 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60655 VAL_9 **= 0 <hex>**		
		PIA60476 VAL_10 **= 0 <hex>**		
		PIA60487 VAL_11 **= 0 <hex>**		
		PIA60498 VAL_12 **= 70 <hex>**		
		PIA60509 VAL_13 **= 0 <hex>**		
		PIA60520 VAL_14 **= 0 <hex>**		
		PIA60531 VAL_15 **= 0 <hex>**		
		PIA60542 VAL_16 **= 0 <hex>**		
		PIA60553 VAL_17 **= 0 <hex>**		
		PIA60564 VAL_18 **= 60 <hex>**		
		PIA60575 VAL_19 **= 0 <hex>**		
		PIA60579 VAL_20 **= 0 <hex>**		
		PIA60580 VAL_21 **= 0 <hex>**		
		PIA60581 VAL_22 **= 0 <hex>**		
		PIA60582 VAL_23 **= 0 <hex>**		
		PIA60583 VAL_24 **= 50 <hex>**		
		PIA60584 VAL_25 **= 0 <hex>**		
		PIA60585 VAL_26 **= 0 <hex>**		
		PIA60586 VAL_27 **= 0 <hex>**		
		PIA60587 VAL_28 **= 0 <hex>**		
		PIA60588 VAL_29 **= 0 <hex>**		
		PIA60590 VAL_30 **= 40 <hex>**		
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		PIA60602 VAL_41 **= 0 <hex>**		
		PIA60603 VAL_42 **= 20 <hex>**		
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		PIA60610 VAL_49 **= 0 <hex>**		
		PIA60612 VAL_50 **= 0 <hex>**		
		PIA60613 VAL_51 **= 20 <hex>**		
		PIA60614 VAL_52 **= 0 <hex>**		
		PIA60615 VAL_53 **= 0 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60616 VAL_54 **= 0 <hex>** **PIA60617** VAL_55 **= 0 <hex>** **PIA60618** VAL_56 **= 0 <hex>** **PIA60619** VAL_57 **= 30 <hex>** **PIA60620** VAL_58 **= 0 <hex>** **PIA60621** VAL_59 **= 0 <hex>** **PIA60623** VAL_60 **= 0 <hex>** **PIA60624** VAL_61 **= 0 <hex>** **PIA60625** VAL_62 **= 0 <hex>** **PIA60626** VAL_63 **= 40 <hex>** **PIA60627** VAL_64 **= 0 <hex>** **PIA60628** VAL_65 **= 0 <hex>** **PIA60629** VAL_66 **= 0 <hex>** **PIA60630** VAL_67 **= 0 <hex>** **PIA60631** VAL_68 **= 0 <hex>** **PIA60632** VAL_69 **= 50 <hex>** **PIA60634** VAL_70 **= 0 <hex>** **PIA60635** VAL_71 **= 0 <hex>** **PIA60636** VAL_72 **= 0 <hex>** **PIA60637** VAL_73 **= 0 <hex>** **PIA60638** VAL_74 **= 0 <hex>** **PIA60639** VAL_75 **= 60 <hex>** **PIA60640** VAL_76 **= 0 <hex>** **PIA60641** VAL_77 **= 0 <hex>** **PIA60642** VAL_78 **= 0 <hex>** **PIA60643** VAL_79 **= 0 <hex>** **PIA60645** VAL_80 **= 0 <hex>** **PIA60646** VAL_81 **= 70 <hex>** **PIA60647** VAL_82 **= 0 <hex>** **PIA60648** VAL_83 **= 0 <hex>** **PIA60649** VAL_84 **= 0 <hex>** **PIA60650** VAL_85 **= 0 <hex>** **PIA60651** VAL_86 **= 0 <hex>** **PIA60652** VAL_87 **= 80 <hex>** **PIA60653** VAL_88 **= 0 <hex>** **PIA60654** VAL_89 **= 0 <hex>** **PIA60656** VAL_90 **= 0 <hex>** **PIA60657** VAL_91 **= 0 <hex>** **PIA60658** VAL_92 **= 0 <hex>** **PIA60659** VAL_93 **= 80 <hex>** **PIA60660** VAL_94 **= 0 <hex>** **PIA60661** VAL_95 **= 0 <hex>**		
8		**Step 8** ***Next step(s):*** -> **9**		
		Set the Hemisphere high voltage		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_HEM_HIGH_VOLT** **ZIA58815 SWA_TC_EAS2_SET_HEM_HIGH_VOLT** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60441** HV_0 **= 2 <hex>** **PIA60442** HV_1 **= 9C <hex>** **PIA60443** HV_2 **= 80 <hex>**		
9		**Step 9** ***Next step(s):*** -> **10**		
		Set the Hemisphere voltage ratio		
	+00.00.30	**Send SWA_TC_EAS2_SET_HEM_VOLT_RATIO** **ZIA58814 SWA_TC_EAS2_SET_HEM_VOLT_RATIO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60469** VR_0 **= DE <hex>** **PIA60470** VR_1 **= B8 <hex>** **PIA60471** VR_2 **= 51 <hex>**		
10		**Step 10** ***Next step(s):*** -> **11**		
		Set the VGF ratio upload		
	+00.00.30	**Send SWA_TC_EAS2_SET_VGF_RATIO_UP** **ZIA58816 SWA_TC_EAS2_SET_VGF_RATIO_UP** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60460** VGF_0 **= 0 <dec>** **PIA60461** VGF_1 **= 0 <dec>** **PIA60462** VGF_2 **= 0 <dec>** **PIA60463** VGF_3 **= 0 <dec>** **PIA60464** VGF_4 **= 0 <dec>** **PIA60465** VGF_5 **= 0 <dec>** **PIA60466** VGF_6 **= 0 <dec>** **PIA60467** VGF_7 **= 0 <dec>** **PIA60468** VGF_8 **= 0 <dec>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
11		**Step 11** ***Next step(s):*** -> **12**		
		Write the VGF setting control		
	+00.00.30	**Send SWA_TC_EAS2_VGF_SET_CTRL** **ZIA58818 SWA_TC_EAS2_VGF_SET_CTRL** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA59035** SET_VAL **= 0 <dec>** (Def)		
12		**Step 12** ***Next step(s):*** -> **13**		
		Start the sequence table		
	+00.00.30	**Send SWA_TC_EAS2_START_SEQ_TABLE** **ZIA58821 SWA_TC_EAS2_START_SEQ_TABLE** TC Control Flags: GBM IL DSE **--Y NC ---**		
13		**Step 13** ***Next step(s):*** -> **14**		
		Set the maximum voltage for the MCP		
	+00.00.30	**Send SWA_TC_EAS2_SET_MCP_MAX_HV** **ZIA58831 SWA_TC_EAS2_SET_MCP_MAX_HV** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60169** MAX_VAL **= 800 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
14		**Step 14** ***Next step(s):*** -> **15**		
		Set the new voltage for the MCP		
	+00.00.30	**Send SWA_TC_EAS2_SET_MCP_HV** **ZIA58832 SWA_TC_EAS2_SET_MCP_HV** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60218** NEW_VAL **= 400 <hex>**		
15		**Step 15** ***Next step(s):*** -> **16**		
		Load the grid voltage		
	+00.00.30	**Send SWA_TC_EAS2_GRID_CTRL_WRITE** **ZIA58829 SWA_TC_EAS2_GRID_CTRL_WRITE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60423** BYTE_0 **= 0 <hex>** **PIA60424** BYTE_1 **= 8 <hex>** **PIA60425** BYTE_2 **= 0 <hex>**		
16		**Step 16** ***Next step(s):*** -> **17**		
		Load the voltage offsets		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_ANAL_VOLT_OFFSET** **ZIA58817 SWA_TC_EAS2_SET_ANAL_VOLT_OFFSET** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60411** AVO_0 **= 0 <hex>** **PIA60412** AVO_1 **= 0 <hex>** **PIA60415** AVO_2 **= 0 <hex>** **PIA60416** AVO_3 **= 0 <hex>** **PIA60417** AVO_4 **= 0 <hex>** **PIA60418** AVO_5 **= 0 <hex>** **PIA60419** AVO_6 **= 0 <hex>** **PIA60420** AVO_7 **= 0 <hex>** **PIA60421** AVO_8 **= 0 <hex>** **PIA60422** AVO_9 **= 0 <hex>** **PIA60413** AVO_10 **= 0 <hex>** **PIA60414** AVO_11 **= 0 <hex>**		
17		**Step 17** ***Next step(s):*** -> **18**		
		Upload dither		
	+00.00.30	**Send SWA_TC_EAS2_UPLOAD_DITHER** **ZIA58802 SWA_TC_EAS2_UPLOAD_DITHER** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60736** DR_0 **= 0 <hex>** **PIA60737** DR_1 **= 0 <hex>** **PIA60738** DR_2 **= 0 <hex>**		
18		**Step 18** ***Next step(s):*** -> **19**		
		Set Pre-Amp 1 control data		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_PRE_AMP_DATA** **ZIA58822 SWA_TC_EAS2_SET_PRE_AMP_DATA** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60013** PRE_AMP_ID **= PRE-AMP1** (Def) **PIA60429** CMD_DATA_0 **= 0 <hex>** **PIA60430** CMD_DATA_1 **= 0F <hex>** **PIA60431** CMD_DATA_2 **= F0 <hex>**		
19		**Step 19** ***Next step(s):*** -> **20**		
		Set Pre-Amp 2 control data		
	+00.00.30	**Send SWA_TC_EAS2_SET_PRE_AMP_DATA** **ZIA58822 SWA_TC_EAS2_SET_PRE_AMP_DATA** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60013** PRE_AMP_ID **= PRE-AMP2** **PIA60429** CMD_DATA_0 **= 0 <hex>** **PIA60430** CMD_DATA_1 **= 0F <hex>** **PIA60431** CMD_DATA_2 **= F0 <hex>**		
20		**Step 20** ***Next step(s):*** -> **21**		
		Load the threshold values		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_PREAMP_DATA** **ZIA58845 SWA_TC_EAS2_SET_PREAMP_DATA** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60174** CMD_DATA_TH1 **= 5F40 <hex>** **PIA60185** CMD_DATA_TH2 **= 5F41 <hex>** **PIA60196** CMD_DATA_TH3 **= 5F42 <hex>** **PIA60200** CMD_DATA_TH4 **= 5F43 <hex>** **PIA60201** CMD_DATA_TH5 **= 5F44 <hex>** **PIA60202** CMD_DATA_TH6 **= 5F45 <hex>** **PIA60203** CMD_DATA_TH7 **= 6586 <hex>** **PIA60204** CMD_DATA_TH8 **= 6587 <hex>** **PIA60205** CMD_DATA_TH9 **= 66C8 <hex>** **PIA60175** CMD_DATA_TH10 **= 5F49 <hex>** **PIA60176** CMD_DATA_TH11 **= 5F4A <hex>** **PIA60177** CMD_DATA_TH12 **= 5F4B <hex>** **PIA60178** CMD_DATA_TH13 **= 5F4C <hex>** **PIA60179** CMD_DATA_TH14 **= 5F4D <hex>** **PIA60180** CMD_DATA_TH15 **= 5F4E <hex>** **PIA60181** CMD_DATA_TH16 **= 5F4F <hex>** **PIA60182** CMD_DATA_TH17 **= 5F40 <hex>** **PIA60183** CMD_DATA_TH18 **= 5F41 <hex>** **PIA60184** CMD_DATA_TH19 **= 5F42 <hex>** **PIA60186** CMD_DATA_TH20 **= 5F43 <hex>** **PIA60187** CMD_DATA_TH21 **= 5F44 <hex>** **PIA60188** CMD_DATA_TH22 **= 5F45 <hex>** **PIA60189** CMD_DATA_TH23 **= 5F46 <hex>** **PIA60190** CMD_DATA_TH24 **= 5F47 <hex>** **PIA60191** CMD_DATA_TH25 **= 5F48 <hex>** **PIA60192** CMD_DATA_TH26 **= 5F49 <hex>** **PIA60193** CMD_DATA_TH27 **= 5F4A <hex>** **PIA60194** CMD_DATA_TH28 **= 5CCB <hex>** **PIA60195** CMD_DATA_TH29 **= 5F4C <hex>** **PIA60197** CMD_DATA_TH30 **= 5F4D <hex>** **PIA60198** CMD_DATA_TH31 **= 5F4E <hex>** **PIA60199** CMD_DATA_TH32 **= 5F4F <hex>**		
21		**Step 21** ***Next step(s):*** -> **22**		
		Set hemisphere voltage look-up table		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_HEM_VOLT_LUT** **ZIA58812 SWA_TC_EAS2_SET_HEM_VOLT_LUT** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60474** VAL_0 **= 0 <hex>** **PIA60475** VAL_1 **= 0 <hex>** **PIA60578** VAL_2 **= 0 <hex>** **PIA60589** VAL_3 **= 0 <hex>** **PIA60600** VAL_4 **= 0 <hex>** **PIA60611** VAL_5 **= 0 <hex>** **PIA60622** VAL_6 **= 0 <hex>** **PIA60633** VAL_7 **= 0 <hex>** **PIA60644** VAL_8 **= 0 <hex>** **PIA60655** VAL_9 **= 0 <hex>** **PIA60476** VAL_10 **= 0 <hex>** **PIA60487** VAL_11 **= 0 <hex>** **PIA60498** VAL_12 **= 0 <hex>** **PIA60509** VAL_13 **= 0 <hex>** **PIA60520** VAL_14 **= 0 <hex>** **PIA60531** VAL_15 **= 0 <hex>** **PIA60542** VAL_16 **= 0 <hex>** **PIA60553** VAL_17 **= 0 <hex>** **PIA60564** VAL_18 **= 0 <hex>** **PIA60575** VAL_19 **= 0 <hex>** **PIA60579** VAL_20 **= 0 <hex>** **PIA60580** VAL_21 **= 0 <hex>** **PIA60581** VAL_22 **= 0 <hex>** **PIA60582** VAL_23 **= 0 <hex>** **PIA60583** VAL_24 **= 0 <hex>** **PIA60584** VAL_25 **= 0 <hex>** **PIA60585** VAL_26 **= 0 <hex>** **PIA60586** VAL_27 **= 0 <hex>** **PIA60587** VAL_28 **= 0 <hex>** **PIA60588** VAL_29 **= 0 <hex>** **PIA60590** VAL_30 **= 0 <hex>** **PIA60591** VAL_31 **= 0 <hex>** **PIA60592** VAL_32 **= 0 <hex>** **PIA60593** VAL_33 **= 0 <hex>** **PIA60594** VAL_34 **= 0 <hex>** **PIA60595** VAL_35 **= 0 <hex>** **PIA60596** VAL_36 **= 0 <hex>** **PIA60597** VAL_37 **= 0 <hex>** **PIA60598** VAL_38 **= 0 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60599 VAL_39 **= 0 <hex>**		
		PIA60601 VAL_40 **= 0 <hex>**		
		PIA60602 VAL_41 **= 0 <hex>**		
		PIA60603 VAL_42 **= 0 <hex>**		
		PIA60604 VAL_43 **= 0 <hex>**		
		PIA60605 VAL_44 **= 0 <hex>**		
		PIA60606 VAL_45 **= 0 <hex>**		
		PIA60607 VAL_46 **= 0 <hex>**		
		PIA60608 VAL_47 **= 0 <hex>**		
		PIA60609 VAL_48 **= 0 <hex>**		
		PIA60610 VAL_49 **= 0 <hex>**		
		PIA60612 VAL_50 **= 0 <hex>**		
		PIA60613 VAL_51 **= 0 <hex>**		
		PIA60614 VAL_52 **= 0 <hex>**		
		PIA60615 VAL_53 **= 0 <hex>**		
		PIA60616 VAL_54 **= 0 <hex>**		
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		PIA60618 VAL_56 **= 0 <hex>**		
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		PIA60643 VAL_79 **= 0 <hex>**		
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		PIA60646 VAL_81 **= 0 <hex>**		
		PIA60647 VAL_82 **= 0 <hex>**		
		PIA60648 VAL_83 **= 0 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60649 VAL_84 **= 0 <hex>**		
		PIA60650 VAL_85 **= 0 <hex>**		
		PIA60651 VAL_86 **= 0 <hex>**		
		PIA60652 VAL_87 **= 0 <hex>**		
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		PIA60662 VAL_96 **= 0 <hex>**		
		PIA60663 VAL_97 **= 0 <hex>**		
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		PIA60477 VAL_100 **= 0 <hex>**		
		PIA60478 VAL_101 **= 0 <hex>**		
		PIA60479 VAL_102 **= 0 <hex>**		
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		PIA60482 VAL_105 **= 0 <hex>**		
		PIA60483 VAL_106 **= 0 <hex>**		
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		PIA60485 VAL_108 **= 0 <hex>**		
		PIA60486 VAL_109 **= 0 <hex>**		
		PIA60488 VAL_110 **= 0 <hex>**		
		PIA60489 VAL_111 **= 0 <hex>**		
		PIA60490 VAL_112 **= 0 <hex>**		
		PIA60491 VAL_113 **= 0 <hex>**		
		PIA60492 VAL_114 **= 0 <hex>**		
		PIA60493 VAL_115 **= 0 <hex>**		
		PIA60494 VAL_116 **= 0 <hex>**		
		PIA60495 VAL_117 **= 0 <hex>**		
		PIA60496 VAL_118 **= 0 <hex>**		
		PIA60497 VAL_119 **= 0 <hex>**		
		PIA60499 VAL_120 **= 0 <hex>**		
		PIA60500 VAL_121 **= 0 <hex>**		
		PIA60501 VAL_122 **= 0 <hex>**		
		PIA60502 VAL_123 **= 0 <hex>**		
		PIA60503 VAL_124 **= 0 <hex>**		
		PIA60504 VAL_125 **= 0 <hex>**		
		PIA60505 VAL_126 **= 0 <hex>**		
		PIA60506 VAL_127 **= 0 <hex>**		
		PIA60507 VAL_128 **= 0 <hex>**		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60508 VAL_129 = 0 <hex>		
		PIA60510 VAL_130 = 0 <hex>		
		PIA60511 VAL_131 = 0 <hex>		
		PIA60512 VAL_132 = 0 <hex>		
		PIA60513 VAL_133 = 0 <hex>		
		PIA60514 VAL_134 = 0 <hex>		
		PIA60515 VAL_135 = 0 <hex>		
		PIA60516 VAL_136 = 0 <hex>		
		PIA60517 VAL_137 = 0 <hex>		
		PIA60518 VAL_138 = 0 <hex>		
		PIA60519 VAL_139 = 0 <hex>		
		PIA60521 VAL_140 = 0 <hex>		
		PIA60522 VAL_141 = 0 <hex>		
		PIA60523 VAL_142 = 0 <hex>		
		PIA60524 VAL_143 = 0 <hex>		
		PIA60525 VAL_144 = 0 <hex>		
		PIA60526 VAL_145 = 0 <hex>		
		PIA60527 VAL_146 = 0 <hex>		
		PIA60528 VAL_147 = 0 <hex>		
		PIA60529 VAL_148 = 0 <hex>		
		PIA60530 VAL_149 = 0 <hex>		
		PIA60532 VAL_150 = 0 <hex>		
		PIA60533 VAL_151 = 0 <hex>		
		PIA60534 VAL_152 = 0 <hex>		
		PIA60535 VAL_153 = 0 <hex>		
		PIA60536 VAL_154 = 0 <hex>		
		PIA60537 VAL_155 = 0 <hex>		
		PIA60538 VAL_156 = 0 <hex>		
		PIA60539 VAL_157 = 0 <hex>		
		PIA60540 VAL_158 = 0 <hex>		
		PIA60541 VAL_159 = 0 <hex>		
		PIA60543 VAL_160 = 0 <hex>		
		PIA60544 VAL_161 = 0 <hex>		
		PIA60545 VAL_162 = 0 <hex>		
		PIA60546 VAL_163 = 0 <hex>		
		PIA60547 VAL_164 = 0 <hex>		
		PIA60548 VAL_165 = 0 <hex>		
		PIA60549 VAL_166 = 0 <hex>		
		PIA60550 VAL_167 = 0 <hex>		
		PIA60551 VAL_168 = 0 <hex>		
		PIA60552 VAL_169 = 0 <hex>		
		PIA60554 VAL_170 = 0 <hex>		
		PIA60555 VAL_171 = 0 <hex>		
		PIA60556 VAL_172 = 0 <hex>		
		PIA60557 VAL_173 = 0 <hex>		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60558 VAL_174 **= 0 <hex>** **PIA60559** VAL_175 **= 0 <hex>** **PIA60560** VAL_176 **= 0 <hex>** **PIA60561** VAL_177 **= 0 <hex>** **PIA60562** VAL_178 **= 0 <hex>** **PIA60563** VAL_179 **= 0 <hex>** **PIA60565** VAL_180 **= 0 <hex>** **PIA60566** VAL_181 **= 0 <hex>** **PIA60567** VAL_182 **= 0 <hex>** **PIA60568** VAL_183 **= 0 <hex>** **PIA60569** VAL_184 **= 0 <hex>** **PIA60570** VAL_185 **= 0 <hex>** **PIA60571** VAL_186 **= 0 <hex>** **PIA60572** VAL_187 **= 0 <hex>** **PIA60573** VAL_188 **= 0 <hex>** **PIA60574** VAL_189 **= 0 <hex>** **PIA60576** VAL_190 **= 0 <hex>** **PIA60577** VAL_191 **= 0 <hex>**		
22		**Step 22** ***Next step(s):*** -> **23**		
		Select the strahl bin		
	+00.00.30	**Send SWA_TC_EAS2_STHRAL_SEL** **ZIA58844 SWA_TC_EAS2_STHRAL_SEL** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60173** STRAHL_ID **= 18 <hex>**		
23		**Step 23** ***Next step(s):*** -> **24**		
		Set Moment elab		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_SET_MOM_ELAB** **ZIA58834 SWA_TC_EAS2_SET_MOM_ELAB** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60338** TH1 **= 5 <hex>** **PIA60339** TH2 **= 10 <hex>**		
24		**Step 24** ***Next step(s):*** -> **25**		
		HK data request		
	+00.00.30	**Send SWA_TC_EAS2_HK_DATA_REQ** **ZIA58830 SWA_TC_EAS2_HK_DATA_REQ** TC Control Flags: GBM IL DSE **--Y NC ---**		
25		**Step 25** ***Next step(s):*** -> **26**		
		Switch EAS2 off		
	+00.02.00	**Send SWA_TC_EAS2_OFF** **ZIA58804 SWA_TC_EAS2_OFF** TC Control Flags: GBM IL DSE **--Y NC ---**		
26		**Step 26** ***Next step(s):*** -> **27**		
		Modify DPU configuration parameters		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_DPU_MODIFY_CONF_PARS** **ZIA58706 SWA_TC_DPU_MODIFY_CONF_PARS** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60133** NUM_OF_PARS **= 1 <dec>** **PIA60136** PAR_ID **= 2003 <hex>** **PIA60135** PAR_DESC_SIZE **= 6 <dec>** **PIA60134** PAR_DESC **= DE <hex>** **PIA60134** PAR_DESC **= B8 <hex>** **PIA60134** PAR_DESC **= 51 <hex>** **PIA60134** PAR_DESC **= 2 <hex>** **PIA60134** PAR_DESC **= 9C <hex>** **PIA60134** PAR_DESC **= 80 <hex>**		
27		**Step 27** ***Next step(s):*** -> **28**		
		Accept DPU configuration parameter change		
	+00.00.30	**Send SWA_TC_DPU_ACCEPT_CONF_PARS** **ZIA58708 SWA_TC_DPU_ACCEPT_CONF_PARS** TC Control Flags: GBM IL DSE **--Y NC ---**		
28		**Step 28** ***Next step(s):*** -> **29**		
		Power on EAS2 using macros		
	+00.00.30	**Send SWA_TC_EAS2_PWR_ON** **ZIA58808 SWA_TC_EAS2_PWR_ON** TC Control Flags: GBM IL DSE **--Y NC ---**		
29		**Step 29** ***Next step(s):*** -> **30**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Start the POST service macro		
	+00.01.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST**		
30		**Step 30** ***Next step(s):*** -> **31**		
		EAS2 to IDLE mode		
	+00.00.30	**Send SWA_TC_EAS2_IDLE_MODE** **ZIA58801 SWA_TC_EAS2_IDLE_MODE** TC Control Flags: GBM IL DSE **--Y NC ---**		
31		**Step 31** ***Next step(s):*** -> **32**		
		Request an HK packet		
	+00.00.45	**Send SWA_TC_EAS2_HK_DATA_REQ** **ZIA58830 SWA_TC_EAS2_HK_DATA_REQ** TC Control Flags: GBM IL DSE **--Y NC ---**		
		Check, in packet YIA58202, that parameter NIA10909 is between 20 and 40		
		Verify Telemetry **NIA10909** EAS2_EHVOUTV **>= 20 <eng>** **<= 40 <eng>**		(None)

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Check, in packet YIA58202, that parameter NIA10913 is over 500		
		Verify Telemetry **NIA10913** EAS2_EHVATT **> 500 V**		(None)
32		**Step 32** ***Next step(s):*** -> **33**		
		EAS2 to RUN mode		
	+00.00.30	**Send SWA_TC_EAS2_RUN_MODE** **ZIA58806 SWA_TC_EAS2_RUN_MODE** TC Control Flags: GBM IL DSE **--Y NC ---**		
		EAS2 to Engineering mode 2		
	+00.00.30	**Send SWA_TC_EAS2_ENG2_MODE** **ZIA58836 SWA_TC_EAS2_ENG2_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60165** MCP_WAIT **= 10 <dec>**		
33		**Step 33** ***Next step(s):*** -> **34**		
		Run the post-engineering mode macro		
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		EAS2 to Engineering mode 3		
	+00.00.30	**Send SWA_TC_EAS2_ENG3_MODE** **ZIA58837 SWA_TC_EAS2_ENG3_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60101** STARTING_MCP **= 0 <dec>** **PIA60100** FINAL_MCP **= FF <hex>** **PIA60102** STEP_MCP **= F <hex>** **PIA60437** FIRST_RAMP_TIME **= A <hex>** **PIA60444** INTERMEDIATE_RAMP_TIME **= 1 <dec>** **PIA60165** MCP_WAIT **= 2 <dec>** **PIA60760** HEMBIN **= 20 <hex>** **PIA60761** DEFNUM **= 8 <hex>** **PIA60762** CTRL **= SWEEP_MACRO** (Def)		
34		**Step 34** ***Next step(s):*** -> **35**		
		Run the post-engineering mode macro		
	+00.04.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
		EAS2 to Engineering mode 4		
	+00.00.30	**Send SWA_TC_EAS2_ENG4_MODE** **ZIA58838 SWA_TC_EAS2_ENG4_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60104** START_TH_LEVEL **= 724 <hex>** **PIA60103** END_TH_LEVEL **= 477 <hex>** **PIA60105** TH_STEP **= 200 <hex>** **PIA60106** MCP_VAL **= 0 <hex>** **PIA60165** MCP_WAIT **= A <hex>** **PIA60851** ACQ_TIME **= 2 <dec>** **PIA60760** HEMBIN **= 20 <hex>** **PIA60761** DEFNUM **= 8 <hex>**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
35		**Step 35** ***Next step(s):*** -> **36**		
		Run the post-engineering mode macro		
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
		EAS2 to Engineering mode 5		
	+00.00.30	**Send SWA_TC_EAS2_ENG5_MODE** **ZIA58839 SWA_TC_EAS2_ENG5_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60454** PA1_STIM_LEV **= FF <hex>** **PIA60455** PA2_STIM_LEV **= FF <hex>** **PIA60040** START_TH_LEVEL **= 724 <hex>** **PIA60039** END_TH_LEVEL **= 477 <hex>** **PIA60041** TH_STEP **= 76 <hex>** **PIA60106** MCP_VAL **= 0 <hex>** **PIA60171** MCP_WAIT **= A <hex>** **PIA60165** MCP_WAIT **= 2 <dec>**		
36		**Step 36** ***Next step(s):*** -> **37**		
		Run the post-engineering mode macro		
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
		EAS2 to Engineering mode 6		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_ENG6_MODE** **ZIA58840 SWA_TC_EAS2_ENG6_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60457** STIM_HIGH_LEVEL **= FF <hex>** **PIA60458** STIM_LOW_LEVEL **= 32 <hex>** **PIA60459** STIM_STEP **= 29 <hex>** **PIA60106** MCP_VAL **= 0 <hex>** **PIA60171** MCP_WAIT **= A <hex>** **PIA60165** MCP_WAIT **= 2 <dec>**		
37		**Step 37** ***Next step(s):*** -> **38**		
		Run the post-engineering mode macro		
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
		EAS2 to Engineering mode 8		
	+00.00.30	**Send SWA_TC_EAS2_ENG8_MODE** **ZIA58842 SWA_TC_EAS2_ENG8_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60735** VR **= FF <hex>** **PIA60716** HV **= 32 <hex>** **PIA60165** MCP_WAIT **= 10 <hex>**		
38		**Step 38** ***Next step(s):*** -> **39**		
		Run the post-engineering mode macro		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
		EAS2 to Engineering mode 9		
	+00.00.30	**Send SWA_TC_EAS2_ENG9_MODE** **ZIA58843 SWA_TC_EAS2_ENG9_MODE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60165** MCP_WAIT **= 10 <hex>**		
39		**Step 39** ***Next step(s):*** -> **40**		
		Run the post-engineering mode macro		
	+00.02.00	**Send SWA_TC_EAS2_START_SERVICE_MACRO** **ZIA58936 SWA_TC_EAS2_START_SERVICE_MACRO** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60740** EAS2_MACRO_ID **= POST_ENG**		
40		**Step 40** ***Next step(s):*** -> **41**		
		Set the master control register for manual heater on EAS2		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.30	**Send SWA_TC_EAS2_MASTER_REG_WRITE** **ZIA58824 SWA_TC_EAS2_MASTER_REG_WRITE** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60423** BYTE_0 **= 0 <hex>** **PIA60424** BYTE_1 **= 40 <hex>** **PIA60425** BYTE_2 **= 60 <hex>**		
41		**Step 41** ***Next step(s):*** -> **42**		
		Turn off heater (it is off anyway so this should do nothing)		
	+00.00.30	**Send SWA_TC_EAS2_MAN_HEATHER** **ZIA58805 SWA_TC_EAS2_MAN_HEATHER** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60773** HT_0 **= 0 <hex>** **PIA60774** HT_1 **= 0 <hex>** **PIA60775** HT_2 **= 0 <hex>**		
42		**Step 42** ***Next step(s):*** -> **43**		
		Dump EAS1 Hemisphere voltage		
	+00.00.30	**Send SWA_TC_EAS1_DUMP_PARS** **ZIA58785 SWA_TC_EAS1_DUMP_PARS** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA58061** EAS_PARAM_ID **= CmdReadHemHigVol**		
		Check for reception of YIA58904 (TM(201,200) - SWA_TM_EAS1_PARAM_REPORT)		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
43		**Step 43** ***Next step(s):*** -> **44**		
		Dump EAS2 Hemisphere voltage		
	+00.00.30	**Send SWA_TC_EAS2_DUMP_PARS** **ZIA58833 SWA_TC_EAS2_DUMP_PARS** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA58061** EAS_PARAM_ID **= CmdReadHemHigVol**		
		Check for reception of YIA58905 (TM(202,200) - SWA_TM_EAS2_PARAM_REPORT)		
44		**Step 44** ***Next step(s):*** -> **45**		
		Start normal science on EAS1		
	+00.00.30	**Send SWA_TC_EAS1_MAIL_WR** **ZIA58771 SWA_TC_EAS1_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= C2 <hex>**		
45		**Step 45** ***Next step(s):*** -> **46**		
		Start normal science on EAS2		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.10	**Send SWA_TC_EAS2_MAIL_WR** **ZIA58819 SWA_TC_EAS2_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= C2 <hex>**		
46		**Step 46** ***Next step(s):*** -> **47**		
		Stop normal science on EAS1		
	+00.00.30	**Send SWA_TC_EAS1_MAIL_WR** **ZIA58771 SWA_TC_EAS1_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= 0 <hex>**		
47		**Step 47** ***Next step(s):*** -> **48**		
		Stop normal science on EAS2		
	+00.00.10	**Send SWA_TC_EAS2_MAIL_WR** **ZIA58819 SWA_TC_EAS2_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= 0 <hex>**		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
48		**Step 48** ***Next step(s):*** -> **49**		
		Start normal science on both EAS sensors		
	+00.00.10	**Send SWA_TC_SENS_SET_EAS_SCI** **ZIA58727 SWA_TC_SENS_SET_EAS_SCI** TC Control Flags: GBM IL DSE **--Y NC ---**		
49		**Step 49** ***Next step(s):*** -> **50**		
		Put both EAS sensors into Burst mode for 30 seconds		
	+00.00.30	**Send SWA_TC_SENS_SET_BURST** **ZIA58726 SWA_TC_SENS_SET_BURST** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60157** EAS1_TIME1 **= 240 <dec>** **PIA60158** EAS1_TIME2 **= 0 <dec>** **PIA60159** EAS2_TIME1 **= 240 <dec>** **PIA60160** EAS2_TIME2 **= 0 <dec>** **PIA60163** PAS_TIME1 **= 0 <dec>** **PIA60164** PAS_TIME2 **= 0 <dec>** **PIA60170** PAS_SCHEME **= DYNAMIC** **PIA60161** HIS_TIME1 **= 0 <dec>** **PIA60162** HIS_TIME2 **= 0 <dec>**		
50		**Step 50** ***Next step(s):*** -> **51**		
		Stop normal science on EAS1		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.40	**Send SWA_TC_EAS1_MAIL_WR** **ZIA58771 SWA_TC_EAS1_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= 0 <hex>**		
51		**Step 51** ***Next step(s):*** -> **52**		
		Stop normal science on EAS2		
	+00.00.10	**Send SWA_TC_EAS2_MAIL_WR** **ZIA58819 SWA_TC_EAS2_MAIL_WR** TC Control Flags: GBM IL DSE **--Y NC ---** Command Parameters : **PIA60031** MAILBOX_ID **= MBOX1** (Def) **PIA60446** MBV0 **= 0 <dec>** **PIA60447** MBV1 **= 0 <dec>** **PIA60448** MBV2 **= 0 <hex>**		
52		**Step 52** ***Next step(s):*** -> **53**		
		Power off EAS1		
	+00.01.00	**Send SWA_TC_EAS1_PWR_OFF** **ZIA58761 SWA_TC_EAS1_PWR_OFF** TC Control Flags: GBM IL DSE **--Y NC ---**		
53		**Step 53** ***Next step(s):*** -> **54**		

Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Power off EAS2		
	+00.01.00	**Send SWA_TC_EAS2_PWR_OFF** **ZIA58809 SWA_TC_EAS2_PWR_OFF** TC Control Flags: GBM IL DSE **--Y NC ---**		
54		**Step 54** ***Next step(s):*** -> **END**		
		A wait of 60s is now required before any other procedures can be run		
	AIAV152A	End of Sequence		
		End of Procedure		