

SWA SVT-1 PAS  
File: IA-SVT-154.xls  
Author: daniel lakey



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## Procedure Summary

### Objectives

SWA PAS SVT-1

### Summary of Constraints

### Spacecraft Configuration

#### Start of Procedure

SWA DPU On, PAS Off

#### End of Procedure

SWA DPU On, PAS Off

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

AIAV154A

### Referenced Displays

ANDs      GRDs      SLDs

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
14/01/2019		1	First exported version	dlakey	M7

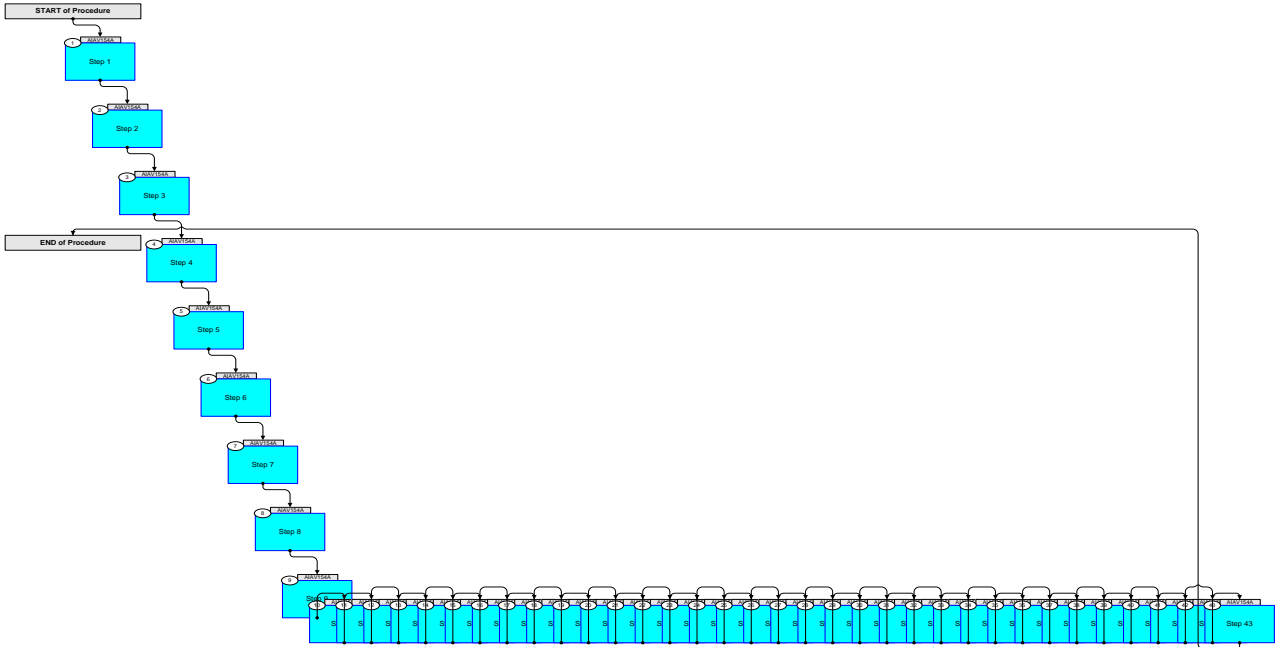
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## Procedure Flowchart Overview



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Step	Label/Time	Activity/Remarks/Branch	CK	Display
<b>Beginning of Procedure</b>				
Beginning of Sequence				
	AIAV154A	AIAV154A TimeTag type : B		
1		<b>Step 1</b>  <i>Next step(s):</i> -> 2		
		Commands for PAS part of the SVT-1 test		
2		<b>Step 2</b>  <i>Next step(s):</i> -> 3		
		Power on PAS without using macros		
	+00.00.00	Send SWA_TC_HIS_EVR ZIA58854 SWA_TC_PAS_ON TC Control Flags: GBM IL DSE --Y NC ---		
3		<b>Step 3</b>  <i>Next step(s):</i> -> 4		
		Start PAS 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 = PAS_SENS_HK		
4		<b>Step 4</b>  <i>Next step(s):</i> -> 5		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Request PAS HK		
	+00.00.15	Send SWA_TC_PAS_HK_DATA_REQUEST ZIA58866 SWA_TC_PAS_HK_DATA_REQUEST TC Control Flags: GBM IL DSE --Y NC ---		
5		Step 5  Next step(s): -> 6		
		Clear Sequencer Shared RAM		
	+00.00.15	Send SWA_TC_PAS_CLEAR_SEQ ZIA58861 SWA_TC_PAS_CLEAR_SEQ TC Control Flags: GBM IL DSE --Y NC ---		
6		Step 6  Next step(s): -> 7		
		Dump PAS parameter (shared memory)		
	+00.00.15	Send SWA_TC_PAS_DUMP_PARAMETER ZIA58942 SWA_TC_PAS_DUMP_PARAMETER TC Control Flags: GBM IL DSE --Y NC ---  Command Parameters : PIA60776 PAS_PARAM_ID = CmdReadSharedRam		
		Verify Packet Reception YIA58906 SWA_TM_PAS_PARAM_REPORT TM(203,200), APID 1593 (99/9) PI1=0 PI2=0		
7		Step 7  Next step(s): -> 8		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Upload PAS Sequence table		
	+00.00.05	Send SWA_TC_PAS_UPLOAD_SEQ_TABLE ZIA58870 SWA_TC_PAS_UPLOAD_SEQ_TABLE TC Control Flags: GBM IL DSE --Y NC ---		
8		Step 8  Next step(s): -> 9		
		Start PAS Sequence		
	+00.00.05	Send SWA_TC_PAS_START_SEQUENCE ZIA58871 SWA_TC_PAS_START_SEQUENCE TC Control Flags: GBM IL DSE --Y NC ---		
9		Step 9  Next step(s): -> 10		
		Dump PAS parameter (get sequencer version)		
	+00.00.05	Send SWA_TC_PAS_DUMP_PARAMETER ZIA58942 SWA_TC_PAS_DUMP_PARAMETER TC Control Flags: GBM IL DSE --Y NC ---  Command Parameters : PIA60776 PAS_PARAM_ID = SequencerVer		
		Verify Packet Reception YIA58906 SWA_TM_PAS_PARAM_REPORT TM(203,200), APID 1593 (99/9) PI1=0 PI2=0		
10		Step 10  Next step(s): -> 11		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		Dump PAS parameter (get sequencer state)		
	+00.00.05	Send SWA_TC_PAS_DUMP_PARAMETER ZIA58942 SWA_TC_PAS_DUMP_PARAMETER TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60776 PAS_PARAM_ID = SequencerState		
		Verify Packet Reception YIA58906 SWA_TM_PAS_PARAM_REPORT TM(203,200), APID 1593 (99/9) PI1=0 PI2=0		
11		Step 11  Next step(s): -> 12		
		Upload PAS config table		
	+00.00.05	Send SWA_TC_PAS_LOAD_CONF_TABLE ZIA58874 SWA_TC_PAS_LOAD_CONF_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60800 DF_0 = 51351234 <hex> PIA60801 DF_1 = F3B65678 <hex> PIA60802 DF_2 = 131A9F05 <hex> PIA60803 DF_3 = ED2FBE76 <hex> PIA60804 DF_4 = 47AE4B7C <hex> PIA60805 DF_5 = 74F5C261 <hex> PIA60806 DF_6 = 7C8A24DD <hex> PIA60807 DF_7 = CCCC9D3F <hex> PIA60808 DF_8 = A978D4DC <hex>  PIA60809 DF_9 = 5E526E97 <hex> PIA60810 DF_10 = 3B6429BA <hex> PIA60811 DF_11 = AE353F8F <hex> PIA60812 DF_12 = 6A228F5C <hex> PIA60813 DF_13 = 53F704BC <hex> PIA60814 DF_14 = 9D916833 <hex> PIA60815 DF_15 = 726B1E0D <hex> PIA60816 DF_16 = A062F168 <hex> PIA60817 DF_17 = 937DEAF8 <hex> PIA60818 DF_18 = CF949328 <hex> PIA60819 DF_19 = B7A8928D <hex> PIA60820 DF_20 = 92FBB794 <hex> PIA60821 DF_21 = 1296EFCF <hex> PIA60822 DF_22 = 0 <hex> PIA60823 DF_23 = 16F9DB00 <hex>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
		PIA60824 DF_24 = 5618C49B <hex> PIA60825 DF_25 = A3D7190E <hex> PIA60826 DF_26 = 1BBE761C <hex> PIA60827 DF_27 = 1415CAC0 <hex> PIA60828 DF_28 = 2F1A13AE <hex> PIA60829 DF_29 = 131A9F15 <hex> PIA60830 DF_30 = 8F0CD4FD <hex> PIA60831 DF_31 = 2D0E15C2 <hex> PIA60832 DF_32 = 1960410A <hex> PIA60833 DF_33 = 7807BE76 <hex> PIA60834 DF_34 = 74BC22E9 <hex> PIA60835 DF_35 = 0BA5E307 <hex> PIA60836 DF_36 = 801A8F5C <hex> PIA60837 DF_37 = E6C05A66 <hex> PIA60838 DF_38 = 3E66 <hex>  PIA60839 DF_39 = 009C28F5 <hex> PIA60840 DF_40 = 0000798A <hex> PIA60841 DF_41 = 0 <hex> PIA60842 DF_42 = 0 <hex> PIA60843 DF_43 = 0 <hex> PIA60844 DF_44 = 10000 <hex>		
12		Step 12  Next step(s): -> 13		
		Dump PAS parameter (get configuration table)		
	+00.00.10	Send SWA_TC_PAS_DUMP_PARAMETER ZIA58942 SWA_TC_PAS_DUMP_PARAMETER TC Control Flags: GBM IL DSE --Y NC ---  Command Parameters : PIA60776 PAS_PARAM_ID = ConfTable		
		Verify Packet Reception YIA58906 SWA_TM_PAS_PARAM_REPORT TM(203,200), APID 1593 (99/9) PI1=0 PI2=0		
13		Step 13  Next step(s): -> 14		
		Load PAS engineering table		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.00.10	Send SWA_TC_PAS_LOAD_ENGIN_TABLE ZIA58875 SWA_TC_PAS_LOAD_ENGIN_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60709 ENG_HT_ANL_MAX = F00C44 <hex> PIA60711 ENK_K = 3CB44D <hex> PIA60708 ENG_ANL_TD_RATIO = 0F5D1D <hex> PIA60706 ENG_ANL_BD_RATIO = 0F441A <hex> PIA60707 ENG_ANL_TC_RATIO = 0F4F8D <hex> PIA60710 ENG_HT_STEP_D = 00001E <hex>		
14		Step 14  Next step(s): -> 15		
		Dump PAS parameter (get engineering table)		
	+00.00.10	Send SWA_TC_PAS_DUMP_PARAMETER ZIA58942 SWA_TC_PAS_DUMP_PARAMETER TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60776 PAS_PARAM_ID = EngTable		
		Verify Packet Reception YIA58906 SWA_TM_PAS_PARAM_REPORT TM(203,200), APID 1593 (99/9) PI1=0 PI2=0		
15		Step 15  Next step(s): -> 16		
		Power off PAS		
	+00.00.10	Send SWA_TC_PAS_OFF ZIA58855 SWA_TC_PAS_OFF TC Control Flags: GBM IL DSE --Y NC ---		



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Step	Label/Time	Activity/Remarks/Branch	CK	Display
16		<p style="text-align: center;"><b>Step 16</b></p> <p><i>Next step(s):</i> -&gt; 17</p>		
		Power on PAS using macros		
	+00.00.20	Send SWA_TC_PAS_PWR_ON ZIA58858 SWA_TC_PAS_PWR_ON TC Control Flags: GBM IL DSE --Y NC ---		
17		<p style="text-align: center;"><b>Step 17</b></p> <p><i>Next step(s):</i> -&gt; 18</p>		
		Run PAS config macro		
	+00.01.00	Send SWA_TC_PAS_CONFIG ZIA58853 SWA_TC_PAS_CONFIG TC Control Flags: GBM IL DSE --Y NC ---		
18		<p style="text-align: center;"><b>Step 18</b></p> <p><i>Next step(s):</i> -&gt; 19</p>		
		Write PAS master control register		
	+00.11.00	Send SWA_TC_PAS_WR_MASTER_CTRL_REG ZIA58863 SWA_TC_PAS_WR_MASTER_CTRL_REG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60343 REG_VAL = 1D <hex>		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
19		<p style="text-align: center;"><b>Step 19</b></p> <p><i>Next step(s):</i> -&gt; 20</p>		
		Write PAS master control register		
	+00.00.05	<p>Send SWA_TC_PAS_WR_MASTER_CTRL_REG                      ZIA58863 SWA_TC_PAS_WR_MASTER_CTRL_REG                      TC Control Flags:                      GBM IL DSE                      --Y NC ---                      Command Parameters :                      PIA60343 REG_VAL = 5 &lt;hex&gt;</p>		
20		<p style="text-align: center;"><b>Step 20</b></p> <p><i>Next step(s):</i> -&gt; 21</p>		
		Run PAS macro HV ramp up		
	+00.00.05	<p>Send SWA_TC_PAS_HV_RAMP_UP                      ZIA58856 SWA_TC_PAS_HV_RAMP_UP                      TC Control Flags:                      GBM IL DSE                      --Y NC ---                      Command Parameters :                      PIA60791 INIT_VALUE = 0 &lt;hex&gt;                      PIA60790 NOMINAL_VAL = 6B7 &lt;hex&gt;                      PIA60792 STEP_VALUE = 11E &lt;hex&gt;                      PIA60793 HV_WAIT = 1E &lt;hex&gt;</p>		
21		<p style="text-align: center;"><b>Step 21</b></p> <p><i>Next step(s):</i> -&gt; 22</p>		
		Upload PAS static table		

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Step	Label/Time	Activity/Remarks/Branch	CK	Display
	+00.04.00	Send SWA_TC_PAS_LOAD_STATIC_TABLE ZIA58876 SWA_TC_PAS_LOAD_STATIC_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60700 CHANNELTRON_CONF = 0 <hex> PIA60713 FIRST_ENERGY = 8 <hex> PIA60705 ENERGY_NUMBER = 30 <hex> PIA60712 FIRST_ELEV = 1 <hex> PIA60704 ELEV_NUMB = 7 <hex> PIA60720 K_VALUE = 1 <hex> PIA60721 N_VALUE = 1 <hex>		
22		Step 22  Next step(s): -> 23		
		Upload PAS dynamic table		
	+00.00.10	Send SWA_TC_PAS_LOAD_DYNAMIC_TABLE ZIA58877 SWA_TC_PAS_LOAD_DYNAMIC_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60725 PKTR_CHANN_CONF = 2 <hex> PIA60731 PKTR_FIRST_ENERGY = 6 <hex> PIA60729 PKTR_ENERGY_NUMBER = 00005a <hex> PIA60730 PKTR_FIRST_ELEV = 0 <hex> PIA60727 PKTR_ELEV_NUMB = 9 <hex> PIA60728 PKTR_EN_W_SIZE = 20 <hex> PIA60726 PKTR_EL_W_SIZE = 3 <hex> PIA60732 PKTR_K_VALUE = 5 <hex> PIA60734 PKTR_N_VALUE = 20 <hex>  PIA60733 PKTR_L_VALUE = 4 <hex>		
23		Step 23  Next step(s): -> 24		
		Upload PAS pulse table		

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	+00.00.10	Send SWA_TC_PAS_LOAD_PULSE_TABLE ZIA58878 SWA_TC_PAS_LOAD_PULSE_TABLE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60719 INJECT_PULSE_ENABLED = F1A6E <hex> PIA60433 ENERGY_BIN = 20 <hex> PIA60672 ELEV_BIN = 5 <hex> PIA60717 INJECT_PULSE_CH_NUM = 4 <hex> PIA60718 INJECT_PULSE_CNT = 10 <hex>		
24		Step 24  Next step(s): -> 25		
		Write PAS mailbox control (start static scheme)		
	+00.00.10	Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60347 MBV_VAL = 1 <hex>		
25		Step 25  Next step(s): -> 26		
		Write PAS pre-amp power control (disable amplifiers)		
	+00.00.30	Send SWA_TC_PAS_WR_PREAMP_CTRL_REG ZIA58862 SWA_TC_PAS_WR_PREAMP_CTRL_REG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA58062 PRE_AMP1 = OFF PIA58063 PRE_AMP2 = OFF		

SWA SVT-1 PAS  
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Step	Label/Time	Activity/Remarks/Branch	CK	Display
26		<p><b>Step 26</b></p> <p><b>Next step(s):</b> -&gt; 27</p>		
		Write PAS pre-amp power control (enable amplifiers)		
	+00.00.30	<p>Send SWA_TC_PAS_WR_PREAMP_CTRL_REG ZIA58862 SWA_TC_PAS_WR_PREAMP_CTRL_REG</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters : PIA58062 PRE_AMP1 = ON (Def) PIA58063 PRE_AMP2 = ON (Def)</p>		
27		<p><b>Step 27</b></p> <p><b>Next step(s):</b> -&gt; 28</p>		
		Write PAS mailbox control (abort execution)		
	+00.00.30	<p>Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters : PIA60347 MBV_VAL = FF &lt;hex&gt;</p>		
28		<p><b>Step 28</b></p> <p><b>Next step(s):</b> -&gt; 29</p>		
		Set main HV		
	+00.00.10	<p>Send SWA_TC_PAS_SET_MAIN_HV ZIA58869 SWA_TC_PAS_SET_MAIN_HV</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters : PIA60344 HV_VAL = F00 &lt;hex&gt;</p>		

SWA SVT-1 PAS File: IA-SVT-154.xls Author: daniel lakey	 
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Step	Label/Time	Activity/Remarks/Branch	CK	Display
29		<p style="text-align: center;"><b>Step 29</b></p> <p><i>Next step(s):</i> -&gt; 30</p>		
		Set HV CEM		
	+00.00.30	Send SWA_TC_PAS_SET_HV_CEM ZIA58868 SWA_TC_PAS_SET_HV_CEM TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60344 HV_VAL = 614 <hex>		
30		<p style="text-align: center;"><b>Step 30</b></p> <p><i>Next step(s):</i> -&gt; 31</p>		
		Set main HV		
	+00.01.00	Send SWA_TC_PAS_SET_MAIN_HV ZIA58869 SWA_TC_PAS_SET_MAIN_HV TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60344 HV_VAL = FFF <hex>		
31		<p style="text-align: center;"><b>Step 31</b></p> <p><i>Next step(s):</i> -&gt; 32</p>		
		Set HV CEM		
	+00.00.20	Send SWA_TC_PAS_SET_HV_CEM ZIA58868 SWA_TC_PAS_SET_HV_CEM TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60344 HV_VAL = 6B7 <hex>		

SWA SVT-1 PAS File: IA-SVT-154.xls Author: daniel lakey		
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Step	Label/Time	Activity/Remarks/Branch	CK	Display
32		<b>Step 32</b>  <i>Next step(s):</i> -> 33		
		Enable RPW freezing		
	+00.00.30	Send SWA_TC_DPU_RPW_EN ZIA58718 SWA_TC_DPU_RPW_EN TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60847 RPW_QAULITY_TH = 0 <hex> PIA60858 PasEnDis_RPW = ENABLE		
33		<b>Step 33</b>  <i>Next step(s):</i> -> 34		
		PAS enter Engineering mode (dynamic scheme for 100s)		
	+00.00.10	Send SWA_TC_PAS_ENG ZIA58852 SWA_TC_PAS_ENG TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60856 S = 1 <hex> PIA60857 TIME = 64 <hex>		
34		<b>Step 34</b>  <i>Next step(s):</i> -> 35		
		Set peak tracking mask to CEM #4		
	+00.04.00	Send SWA_TC_PAS_SET_PEAK_TRACK_MASK ZIA58867 SWA_TC_PAS_SET_PEAK_TRACK_MASK TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60214 MASK = 10 <hex>		

SWA SVT-1 PAS File: IA-SVT-154.xls Author: daniel lakey	 
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Step	Label/Time	Activity/Remarks/Branch	CK	Display
35		Step 35  <i>Next step(s):</i> -> 36		
		Upload PAS pulse table		
	+00.00.10	Send SWA_TC_PAS_LOAD_PULSE_TABLE ZIA58878 SWA_TC_PAS_LOAD_PULSE_TABLE TC Control Flags: GBM IL DSE --Y NC ---  Command Parameters : PIA60719 INJECT_PULSE_ENABLED = F1A6E <hex> PIA60433 ENERGY_BIN = 25 <hex> PIA60672 ELEV_BIN = 4 <hex> PIA60717 INJECT_PULSE_CH_NUM = 4 <hex> PIA60718 INJECT_PULSE_CNT = 10 <hex>		
36		Step 36  <i>Next step(s):</i> -> 37		
		PAS enter Engineering mode (dynamic scheme for 100s)		
	+00.00.10	Send SWA_TC_PAS_ENG ZIA58852 SWA_TC_PAS_ENG TC Control Flags: GBM IL DSE --Y NC ---  Command Parameters : PIA60856 S = 1 <hex> PIA60857 TIME = 64 <hex>		
37		Step 37  <i>Next step(s):</i> -> 38		
		Set peak tracking mask to CEM #4		



SWA SVT-1 PAS  
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	+00.04.00	Send SWA_TC_PAS_SET_PEAK_TRACK_MASK ZIA58867 SWA_TC_PAS_SET_PEAK_TRACK_MASK TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60214 MASK = 0 <hex>		
38		Step 38  Next step(s): -> 39		
		PAS enter Calibration mode		
	+00.00.10	Send SWA_TC_PAS_CALIBRATION_MODE ZIA58850 SWA_TC_PAS_CALIBRATION_MODE TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60780 START_CEM = 5C2 <hex> PIA60781 STEP_CEM = 66 <hex> PIA60782 FINAL_CEM = 75B <hex> PIA60783 MASK_0 = FFB <hex> PIA60784 MASK_1 = FF7 <hex> PIA60785 MASK_2 = FEF <hex> PIA60786 MASK_3 = FDF0 <hex> PIA60787 MASK_4 = FBF0 <hex> PIA60788 POST_CEM = 6B7 <hex>  PIA60789 POST_MASK = 0 <hex>		
39		Step 39  Next step(s): -> 40		
		PAS halt science		
	+00.03.00	Send SWA_TC_PAS_STOP_SCIENCE ZIA58944 SWA_TC_PAS_STOP_SCIENCE TC Control Flags: GBM IL DSE --Y NC ---		

SWA SVT-1 PAS  
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Step	Label/Time	Activity/Remarks/Branch	CK	Display
40		<p><b>Step 40</b></p> <p><i>Next step(s):</i> -&gt; 41</p>		
		Load PAS engineering table		
	+00.01.00	<p>Send SWA_TC_PAS_LOAD_ENGIN_TABLE ZIA58875 SWA_TC_PAS_LOAD_ENGIN_TABLE</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters :</p> <p>PIA60709 ENG_HT_ANL_MAX = F00C44 &lt;hex&gt; PIA60711 ENK_K = 3CB44D &lt;hex&gt; PIA60708 ENG_ANL_TD_RATIO = 0F5D1D &lt;hex&gt; PIA60706 ENG_ANL_BD_RATIO = 0F441A &lt;hex&gt; PIA60707 ENG_ANL_TC_RATIO = 0F4F8D &lt;hex&gt; PIA60710 ENG_HT_STEP_D = 00001E &lt;hex&gt;</p>		
41		<p><b>Step 41</b></p> <p><i>Next step(s):</i> -&gt; 42</p>		
		Write PAS mailbox control (execute Engineering scheme)		
	+00.00.10	<p>Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL</p> <p>TC Control Flags: GBM IL DSE --Y NC ---</p> <p>Command Parameters :</p> <p>PIA60347 MBV_VAL = 3 &lt;hex&gt;</p>		
42		<p><b>Step 42</b></p> <p><i>Next step(s):</i> -&gt; 43</p>		
		Write PAS mailbox control (stop executing)		

SWA SVT-1 PAS File: IA-SVT-154.xls Author: daniel lakey	 
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	+00.10.00	Send SWA_TC_PAS_WR_MAILBOX_CTRL ZIA58873 SWA_TC_PAS_WR_MAILBOX_CTRL TC Control Flags: GBM IL DSE --Y NC --- Command Parameters : PIA60347 MBV_VAL = FF <hex>		
43		Step 43  Next step(s): -> END		
		PAS fast power off		
	+00.00.10	Send SWA_TC_PAS_FAST_PWR_OFF ZIA58946 SWA_TC_PAS_FAST_PWR_OFF TC Control Flags: GBM IL DSE --Y NC ---		
<b>AIAV154A</b>		End of Sequence		
<b>End of Procedure</b>				