

PACS\_Chopper\_SFT\_Cold\_OpenLoop\_OBS  
 File: H\_COP\_PAC\_X002.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to execute a short functional test (cold) for Fm1 chopper in open-loop mode.

- The first part of the procedure consists of chopper deflections equivalent to commanded chopper coil currents between 0 and +/-20 mA, alternating between positive and negative values. Absolute position commanding is used.
- The second part consists of a ramp of chopper deflections between -20 and +20 mA, commanded in relative steps of 4 mA. Finally, the chopper returns to its zero position.

Based on procedure:  
 PACS\_Chopper\_SFT\_Cold\_OpenLoop\_OBS (v1)

### Summary of Constraints

This procedure should be executed as part of the Short Functional Test (HeII conditions)  
 This procedure may also be executed on PACS request

### Spacecraft Configuration

#### Start of Procedure

PACS is in NO\_PRIME Mode  
 - ALL PACS units powered on and connected

#### End of Procedure

PACS is in NO\_PRIME Mode  
 - ALL PACS units powered on and connected

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HCPX002

### Referenced Displays

ANDs      GRDs      SLDs  
 PA016420

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
24/07/08	1	1	Created	R. Biggins	
13/11/08	2	2	Updates due to initial testing - New step (1) added for prerequisite check - Initial OBSID value changed to FP	R. Biggins	

Status : Version 3 - Unchanged  
 Last Checkin: 02/04/09

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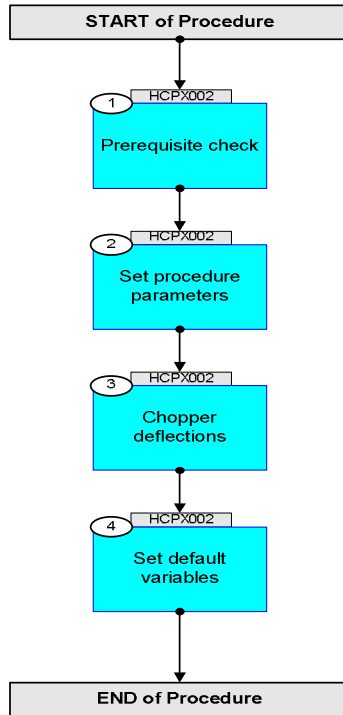


02/04/09	2.3	3	Final updates before flight <input type="checkbox"/> - Summary updated <input type="checkbox"/> - TC flags updated <input type="checkbox"/> - Procedure description/title updated <input type="checkbox"/> - OBSID/BBID checks removed	R. Biggins	
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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name :HCPX002 (Chopper SFT)  TimeTag Type: B Sub Schedule ID:  <input type="checkbox"/>				
1		Prerequisite check		Next Step: 2
1.1		HSC/ICC input		<input type="checkbox"/>
		<b>SOE/SPACON: A temporary GRD should be created to monitor the chopper position (PM048420):</b> min/max -5000/5000 duration 10 minutes		
		Verify that the HSC/ICC has supplied a valid OBSID value:  OBS_ID = 0xnnnn nnnn		
2		Set procedure parameters		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	DMC_SET_OBSID  Command Parameter(s) : OBSERVATION_ID                                  PP069420 OBSID_ID  TC Control Flags :  GBM IL DSE --Y -- ---  Subsch. ID : 90 Det. descr. : SET OBSID IN DMC	PC078420	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID                                  PP070420 41AE0001 <hex>  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420	
		<b>NOTE:</b> The TM showing the OBSID/BBID is not downlinked in NO_PRIME Mode		
3		Chopper deflections		Next Step: 4
		The following TCs should be sent automatically with the defined time separation.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3.1		Prepare for chopper deflections		<input type="checkbox"/>
	ET=+00.00.01 UT=+00.00.01	<p>DMC_WRT_DIAG_HK_LIST</p> <p style="text-align: center;">DMC_WRT_DIAG_HK_LIST</p> <p>Command Parameter(s) :</p> <p style="padding-left: 40px;">DMC_DATA_LENGTH PP065420 6 &lt;dec&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 F2 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 F4 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 F5 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 102 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 231 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 FFFF &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_CHECKSUM PP066420 1E9C &lt;hex&gt;</p> <p>TC Control Flags :</p> <p style="padding-left: 120px;">GBM IL DSE</p>	PC160420	
		--Y -- --		
		<p>Subsch. ID : 90</p> <p>Det. descr. : WRITE THE LIST OF DIAGNOSTIC HK INTO DMC MEMORY</p>		
	ET=+00.00.00 UT=+00.00.00	<p>DMC_START_DIAG_HK</p> <p style="text-align: center;">DMC_START_DIAG_HK</p> <p>Command Parameter(s) :</p> <p style="padding-left: 40px;">DIAG_HK_PERIOD PP076420 0 &lt;dec&gt;</p> <p>Subsch. ID : 90</p> <p>Det. descr. : START THE ACQUISITION OF THE DIAGNOSTIC HK</p>	PC146420	
	ET=+00.00.05 UT=+00.00.05	<p>DMC_WRT_TIMING_FPGA_PAR</p> <p style="text-align: center;">DMC_WRT_TIMING_FPGA_PAR</p> <p>Command Parameter(s) :</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 0 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 0 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 0 &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 1A &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 95217CB &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_4_BYTES_WORDS_DATA PP067420 B &lt;hex&gt;</p> <p style="padding-left: 40px;">DMC_CHECKSUM PP066420 3C78 &lt;hex&gt;</p> <p>Subsch. ID : 90</p> <p>Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE TIMING FPGA</p>	PC176420	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
3.2		Alternating chopper deflections		<input type="checkbox"/>
		The GRD should be monitored to verify the 'zigzag' pattern of the chopper position.		
	ET=+00.00.10 UT=+00.00.10	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	DMC_SET_BBID  PC079420  41B00001 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	DMC_MOVE_CHOP_ABS  PC123420  0 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	DMC_SET_BBID  PC079420  41B00002 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	DMC_MOVE_CHOP_ABS  PC123420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	DMC_SET_BBID  PC079420  41B00003 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	DMC_MOVE_CHOP_ABS  PC123420  -985 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00004 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  1970 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00005 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  -1970 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00006 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  2955 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00007 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  -2955 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00008 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  3940 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B00009 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  -3940 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B0000A <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  4925 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B0000B <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  -4925 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B0000C <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  0 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B0000D <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  -4925 <dec>	
3.3		<i>Stepping chopper deflections</i>		<input type="checkbox"/>
		The GRD should be monitored to verify the 'stepping' pattern of the chopper position.		
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10001 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10002 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10003 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10004 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10005 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10006 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10007 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10008 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B10009 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B1000A <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_REL  DMC_MOVE_CHOP_REL  Command Parameter(s) : SET_POINT_INCREMENT PP078420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER OF A RELATIVE POSITION	PC124420  985 <dec>	
3.4		Reset chopper position		□
	ET=+00.00.15 UT=+00.00.15	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41B0000E <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_MOVE_CHOP_ABS  DMC_MOVE_CHOP_ABS  Command Parameter(s) : SET_POINT PP079420  Subsch. ID : 90 Det. descr. : MOVE CHOPPER TO AN ABSOLUTE POSITION	PC123420  0 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.15 UT=+00.00.15	DMC_DISABLE_CHOP_CONT  DMC_DISABLE_CHOP_CONT  Subsch. ID : 90 Det. descr. : DISABLE CHOPPER CONTROLLER	PC122420	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID  DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41AF0002 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_SET_CHOP_COIL_DRIVE  DMC_SET_CHOP_COIL_DRIVE  Command Parameter(s) : COIL_DRIVE_MODE PP072420  Subsch. ID : 90 Det. descr. : SET CHOPPER COIL DRIVE MODE	PC127420  28 <hex>	
	ET=+00.00.10 UT=+00.00.10	DMC_SWOF_CHOP_CONT  DMC_SWOF_CHOP_CONT  Subsch. ID : 90 Det. descr. : SWITCH OFF CHOPPER CONTROLLER	PC120420	
	ET=+00.00.05 UT=+00.00.05	DMC_WRT_CHOP_CONF_PAR  DMC_WRT_CHOP_CONF_PAR  Command Parameter(s) : DMC_4_BYTES_WORDS_DATA PP067420 683F8 <hex> DMC_4_BYTES_WORDS_DATA PP067420 18392C0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 32 <hex> DMC_4_BYTES_WORDS_DATA PP067420 898 <hex> DMC_4_BYTES_WORDS_DATA PP067420 24A <hex> DMC_4_BYTES_WORDS_DATA PP067420 3FFFFFFF <hex> DMC_4_BYTES_WORDS_DATA PP067420 69DC <hex> DMC_4_BYTES_WORDS_DATA PP067420 61A8 <hex> DMC_4_BYTES_WORDS_DATA PP067420 7FFFFFFF <hex> DMC_4_BYTES_WORDS_DATA PP067420 FFFFFFFB55 <hex> DMC_4_BYTES_WORDS_DATA PP067420 468E8 <hex>  DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 0 <hex> DMC_4_BYTES_WORDS_DATA PP067420 18AAF <hex> DMC_4_BYTES_WORDS_DATA PP067420 29F4D <hex> DMC_4_BYTES_WORDS_DATA PP067420 18AAF <hex> DMC_4_BYTES_WORDS_DATA PP067420 1C11DF <hex> DMC_4_BYTES_WORDS_DATA PP067420 DBB35 <hex> DMC_4_BYTES_WORDS_DATA PP067420 94 <hex> DMC_4_BYTES_WORDS_DATA PP067420 393A <hex> DMC_4_BYTES_WORDS_DATA PP067420 3B1 <hex> DMC_CHECKSUM PP066420 C2DF <hex>  Subsch. ID : 90 Det. descr. : WRITE THE PARAMETERS TO CONFIGURE THE CHOPPER SERVO LOOP	PC163420	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.04 UT=+00.00.04	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID           PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  41AE0002 <hex>	
	ET=+00.00.01 UT=+00.00.01	DMC_STOP_DIAG_HK  Subsch. ID : 90 Det. descr. : STOP THE ACQUISITION OF THE DIAGNOSTIC HK	PC147420	
		Verify Telemetry DM_CHOP_CUR_POS           PM048420	= 0 <dec>	AND=PA016420
4		Set default variables		Next Step: END
	ET=+00.00.01 UT=+00.00.01	DMC_SET_OBSID  Command Parameter(s) : OBSERVATION_ID           PP069420  Subsch. ID : 90 Det. descr. : SET OBSID IN DMC	PC078420  00000000 <hex>	
	ET=+00.00.00 UT=+00.00.00	DMC_SET_BBID  Command Parameter(s) : BUILDING_BLOCK_ID           PP070420  Subsch. ID : 90 Det. descr. : SET BBID IN DMC	PC079420  40000000 <hex>	
<b>End of Procedure</b>				