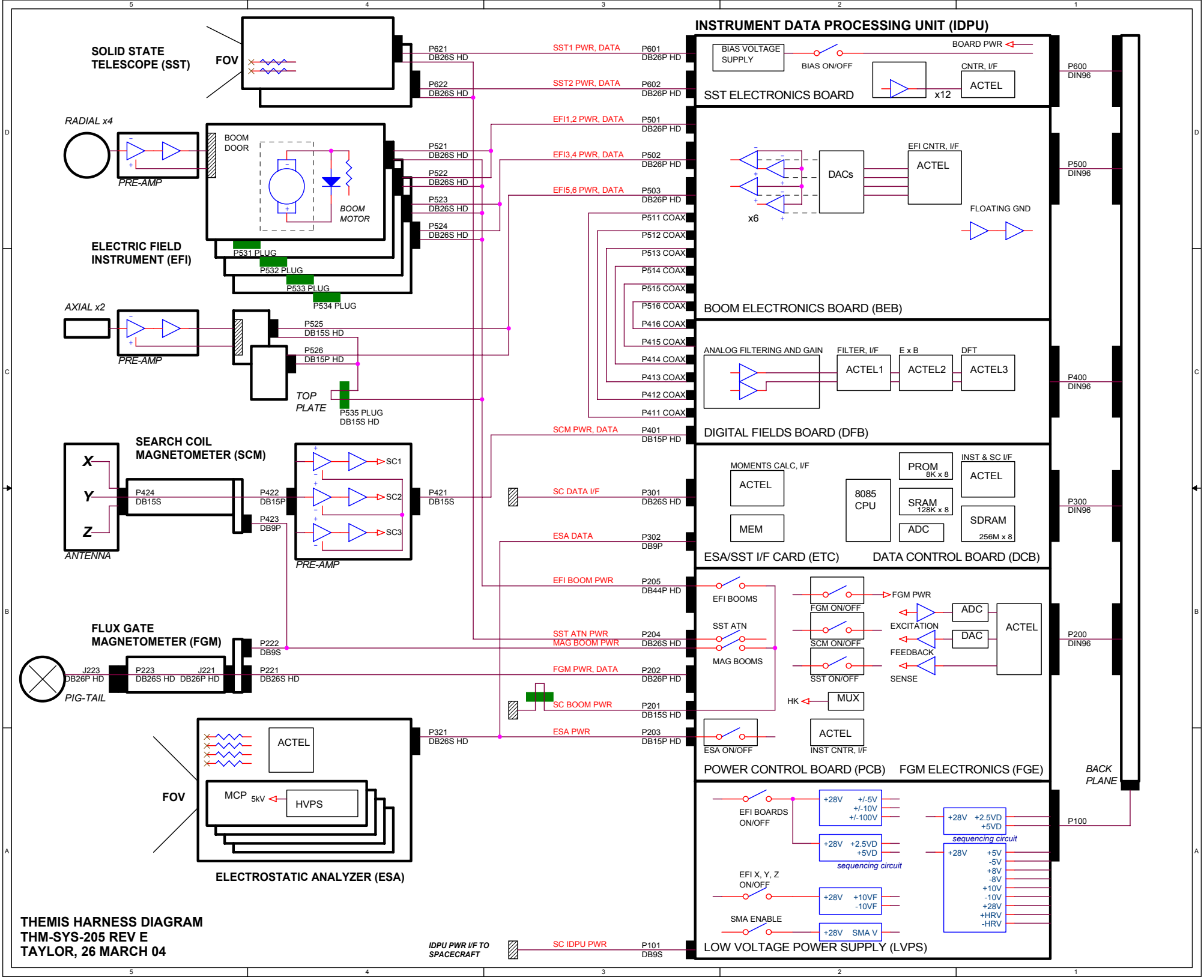
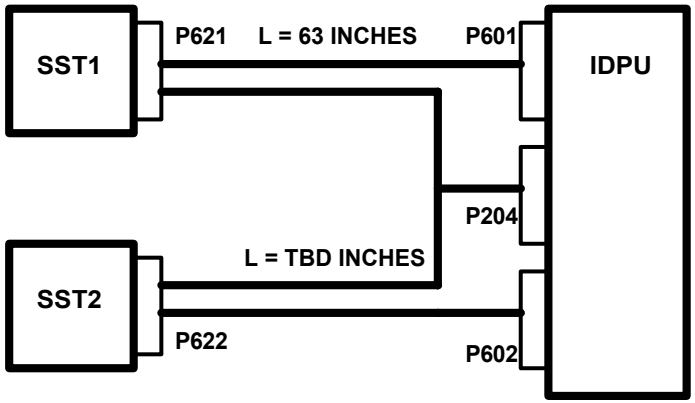
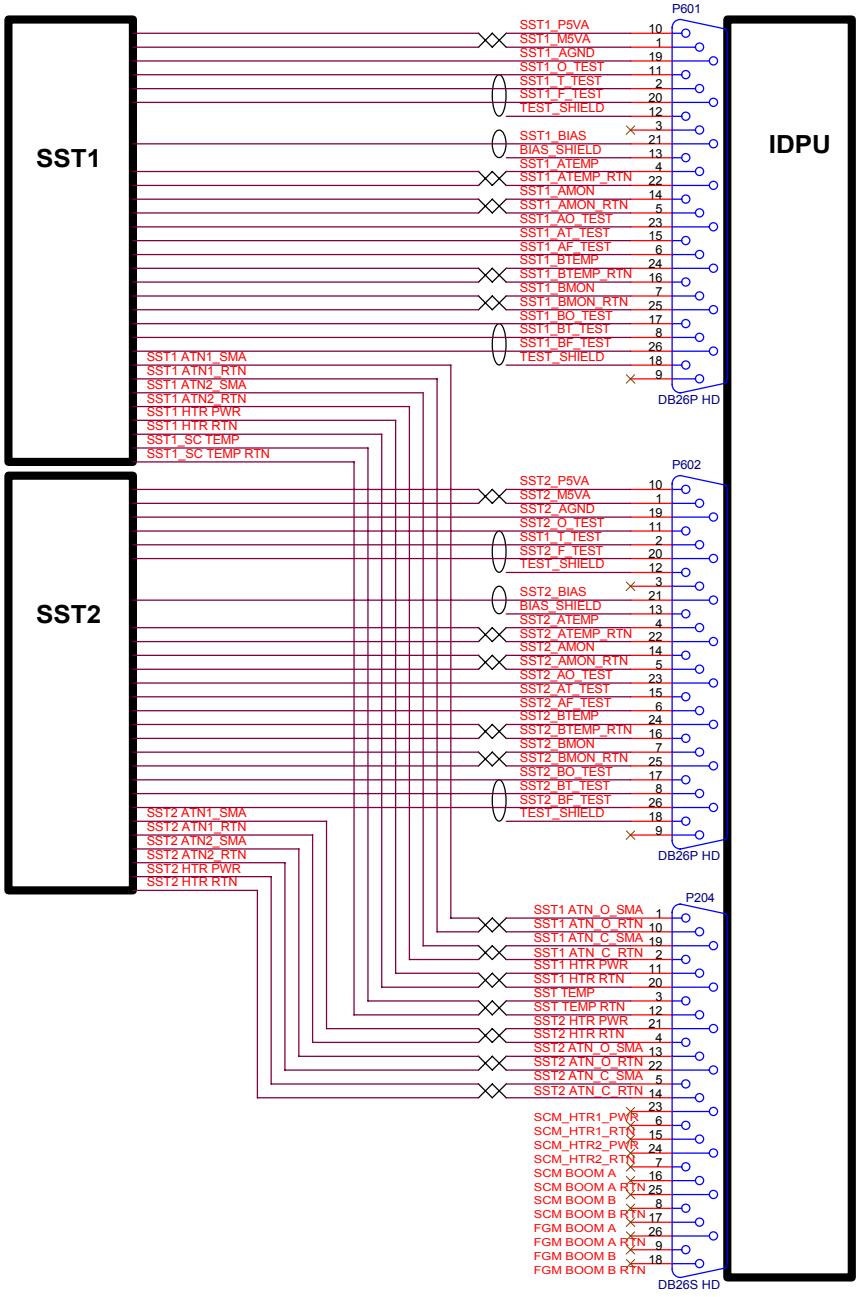

INSTRUMENT DATA PROCESSING UNIT (IDPU)
SOLID STATE TELESCOPE (SST)
FOV
P621 DB26S HD
P622 DB26S HD
SST1 PWR, DATA
SST2 PWR, DATA
P601 DB26P HD
P602 DB26P HD
BIAS VOLTAGE SUPPLY
BIAS ON/OFF
BOARD PWR
CNTR, I/F
ACTEL
x12
SST ELECTRONICS BOARD
P600 DIN96
RADIAL x4
PRE-AMP
BOOM DOOR
BOOM MOTOR
P521 DB26S HD
P522 DB26S HD
P523 DB26S HD
P524 DB26S HD
ELECTRIC FIELD INSTRUMENT (EFI)
P531 PLUG
P532 PLUG
P533 PLUG
P534 PLUG
EFI1,2 PWR, DATA
EFI3,4 PWR, DATA
EFI5,6 PWR, DATA
P501 DB26P HD
P502 DB26P HD
P503 DB26P HD
DACs
EFI CNTR, I/F
ACTEL
x6
FLOATING GND
P500 DIN96
P511 COAX
P512 COAX
P513 COAX
P514 COAX
P515 COAX
P516 COAX
P416 COAX
P415 COAX
P414 COAX
P413 COAX
P412 COAX
P411 COAX
BOOM ELECTRONICS BOARD (BEB)
AXIAL x2
PRE-AMP
P525 DB15S HD
P526 DB15P HD
TOP PLATE
P535 PLUG DB15S HD
ANALOG FILTERING AND GAIN
FILTER, I/F
ACTEL1
E x B
ACTEL2
DFT
ACTEL3
P400 DIN96
DIGITAL FIELDS BOARD (DFB)
SEARCH COIL MAGNETOMETER (SCM)
X
Y
Z
ANTENNA
P424 DB15S
P422 DB15P
P423 DB9P
SC1
SC2
SC3
PRE-AMP
P421 DB15S
SCM PWR, DATA
P401 DB15P HD
MOMENTS CALC, I/F
ACTEL
MEM
8085 CPU
PROM 8K x 8
SRAM 128K x 8
ADC
INST & SC I/F
ACTEL
SDRAM 256M x 8
P300 DIN96
ESA/SST I/F CARD (ETC)
DATA CONTROL BOARD (DCB)
SC DATA I/F
P301 DB26S HD
ESA DATA
P302 DB9P
FLUX GATE MAGNETOMETER (FGM)
P222 DB9S
J223 DB26P HD
P223 DB26S HD
J221 DB26P HD
P221 DB26S HD
PIG-TAIL
EFI BOOM PWR
P205 DB44P HD
SST ATN PWR
MAG BOOM PWR
P204 DB26S HD
FGM PWR, DATA
P202 DB26P HD
SC BOOM PWR
P201 DB15S HD
ESA PWR
P203 DB15P HD
EFI BOOMS
SST ATN
MAG BOOMS
FGM ON/OFF
SCM ON/OFF
SST ON/OFF
FGM PWR
EXCITATION
FEEDBACK
SENSE
ADC
DAC
ACTEL
P200 DIN96
HK
MUX
ESA ON/OFF
ACTEL
INST CNTR, I/F
POWER CONTROL BOARD (PCB)
FGM ELECTRONICS (FGE)
BACK PLANE
FOV
ACTEL
MCP
5kV
HVPS
P321 DB26S HD
ELECTROSTATIC ANALYZER (ESA)
EFI BOARDS ON/OFF
+28V +/-5V +/-10V +/-100V
+28V +2.5VD +5VD
sequencing circuit
+28V +2.5VD +5VD
sequencing circuit
+28V +5V -5V +8V -8V +10V -10V +28V +HRV -HRV
P100
EFI X, Y, Z ON/OFF
+28V +10VF -10VF
SMA ENABLE
+28V SMA V
LOW VOLTAGE POWER SUPPLY (LVPS)
IDPU PWR I/F TO SPACECRAFT
SC IDPU PWR
P101 DB9S
THEMIS HARNESS DIAGRAM
THM-SYS-205 REV E
TAYLOR, 26 MARCH 04

FLIGHT CONFIGURATION



TEST CONFIGURATION

HARNESS DETAILS



Title	THEMIS SST HARNESS	
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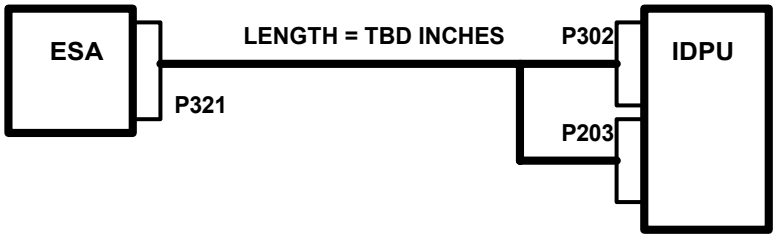
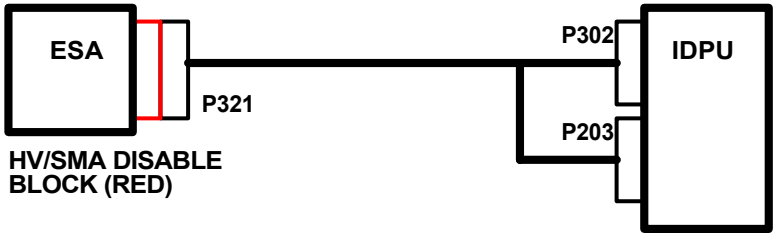
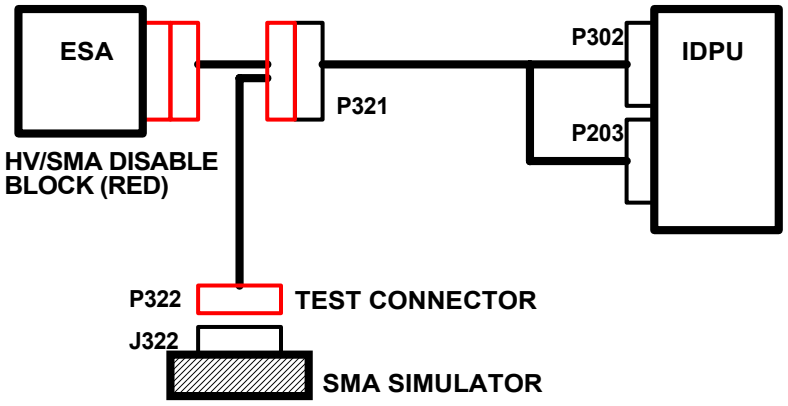
FLIGHT CONFIGURATION

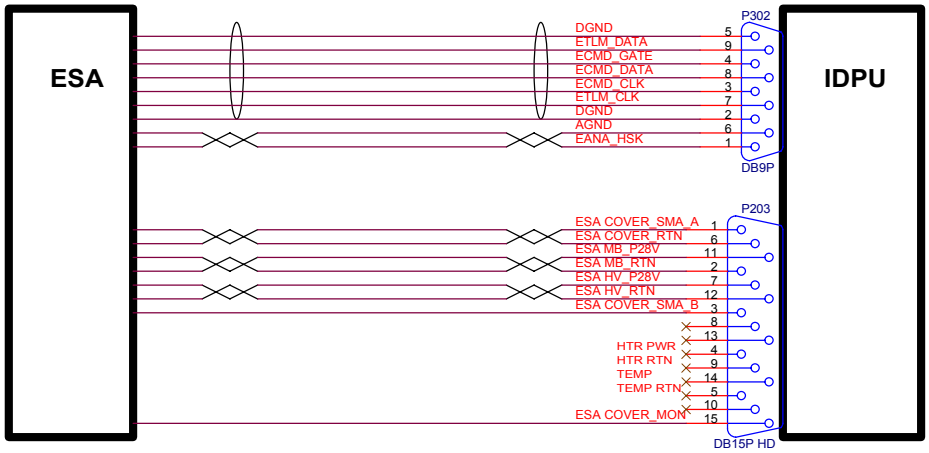


TEST CONFIGURATIONS





HARNESS DETAILS



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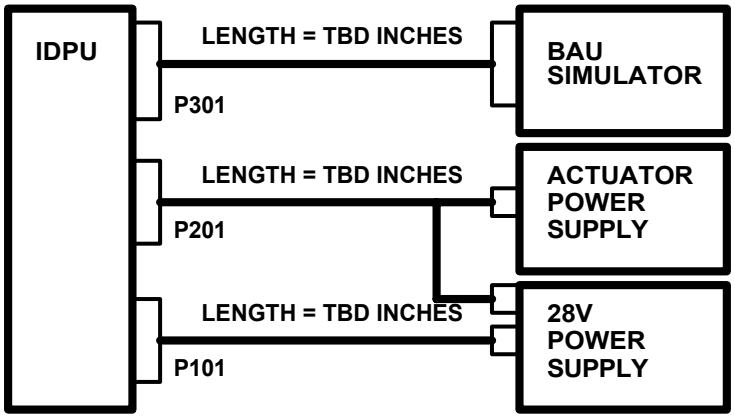
FLIGHT CONFIGURATION

Flight Probe-to-IDPU Harness supplied by Swales

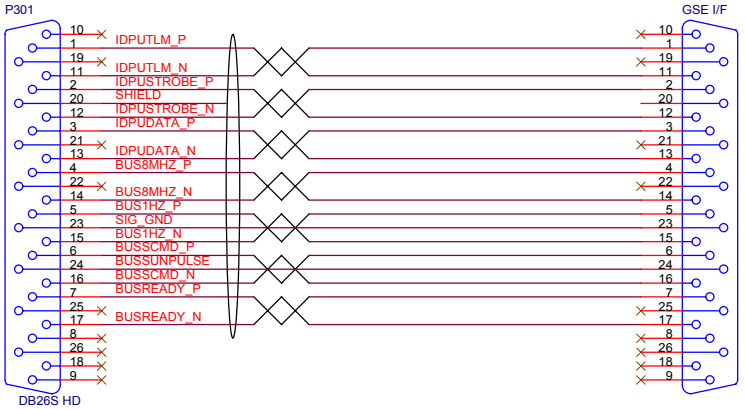
TEST CONFIGURATION

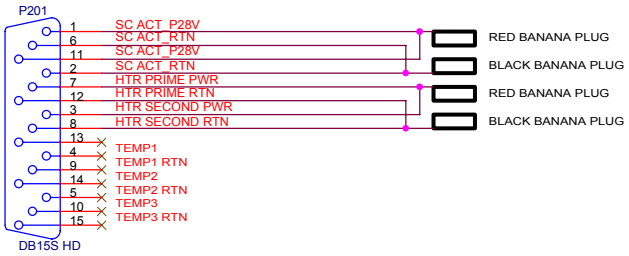


Turned on/off independently of IDPU and heater 28V power.

NOTES

HARNESS DETAILES





Title: THEMIS PROBE HARNESS		
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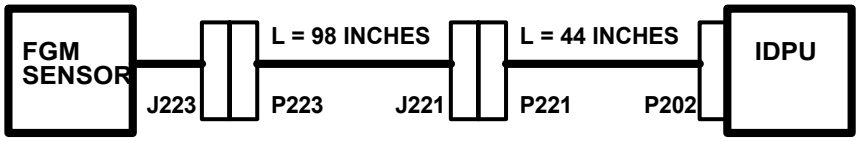
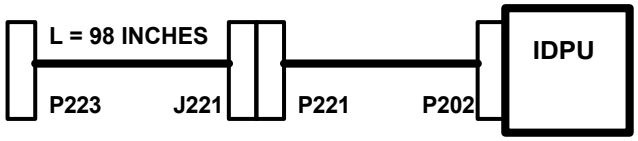
FLIGHT CONFIGURATION

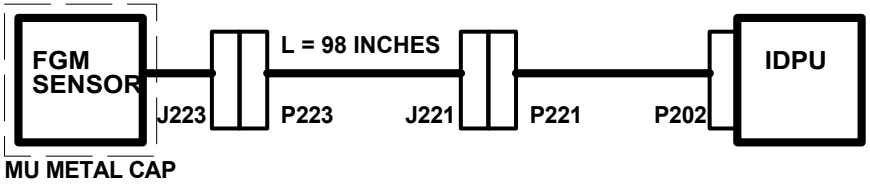


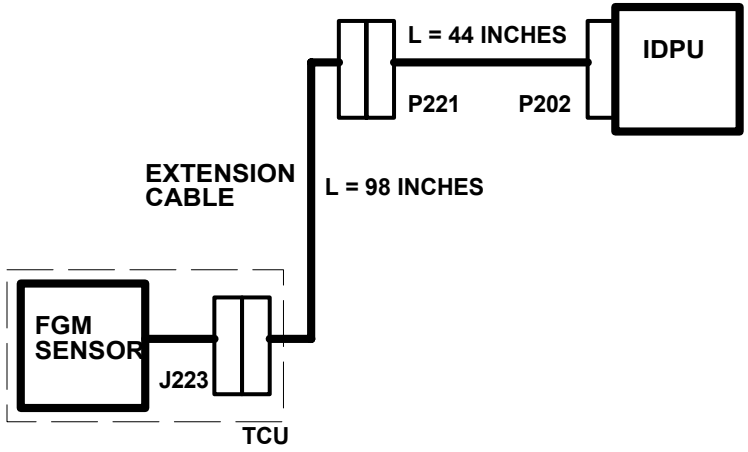
TEST CONFIGURATIONS

Level 0:

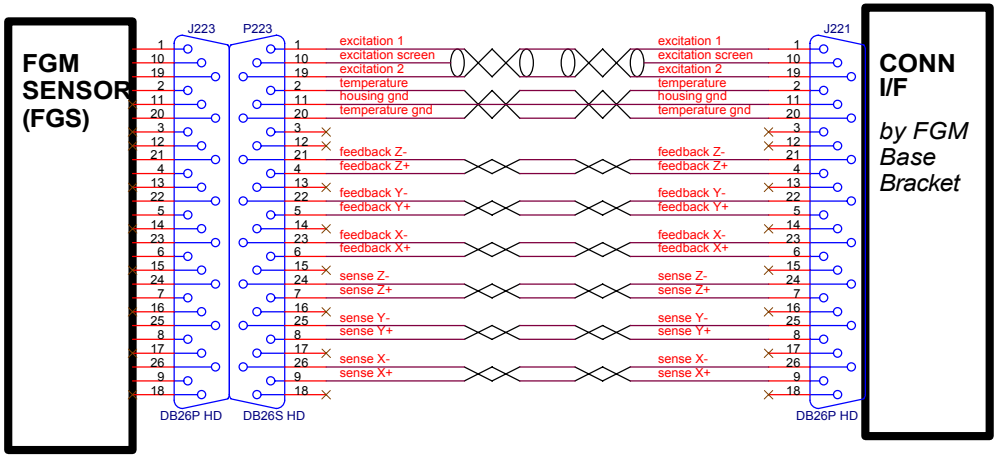


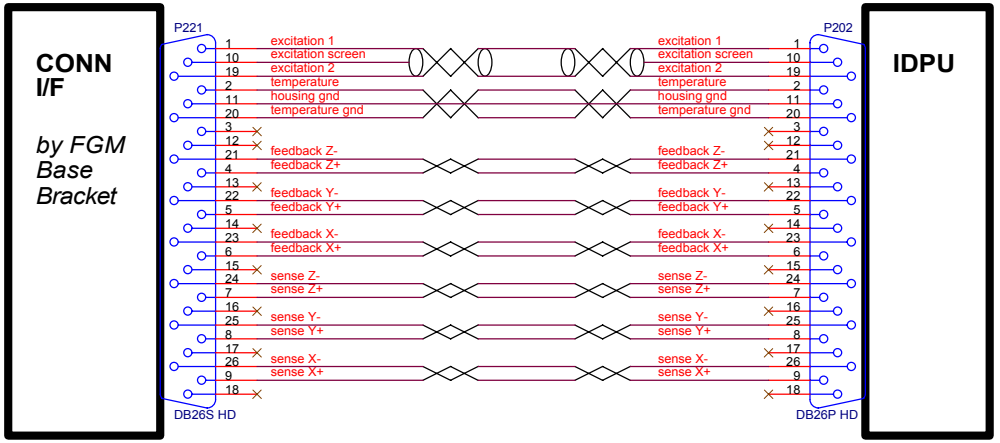
Level 1:





HARNESS DETAILS





Title	THEMIS FGM HARNESS	
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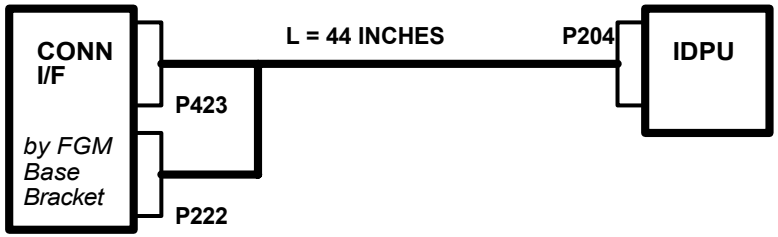
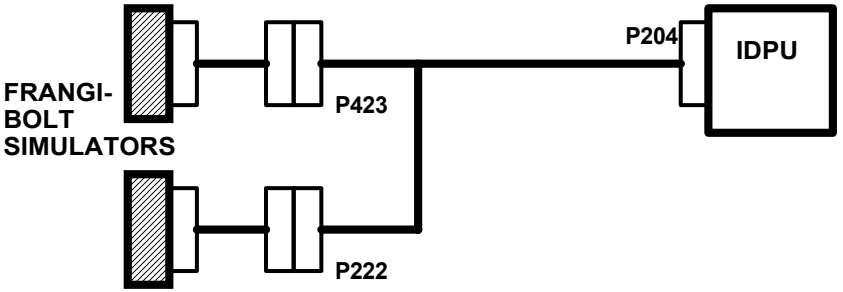
FLIGHT CONFIGURATION

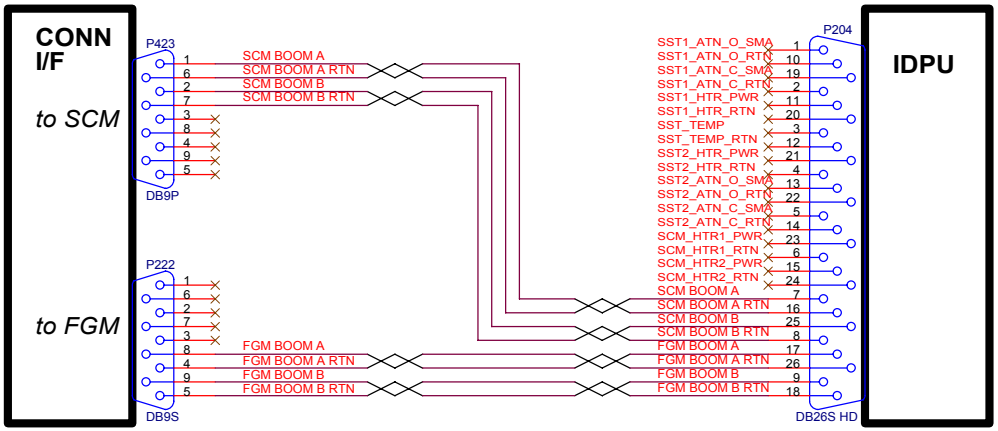


TEST CONFIGURATION



NOTES:

HARNESS DETAILS



Title	THEMIS MAG BOOM HARNESS	
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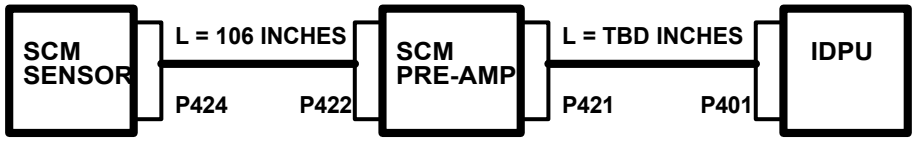
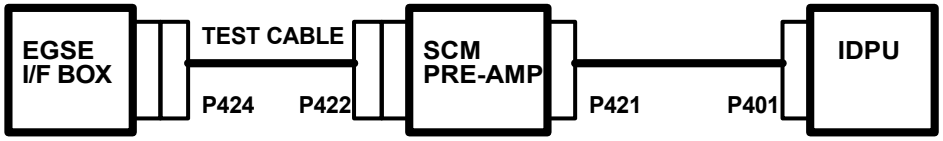
FLIGHT CONFIGURATION



TEST CONFIGURATIONS

Level 0:



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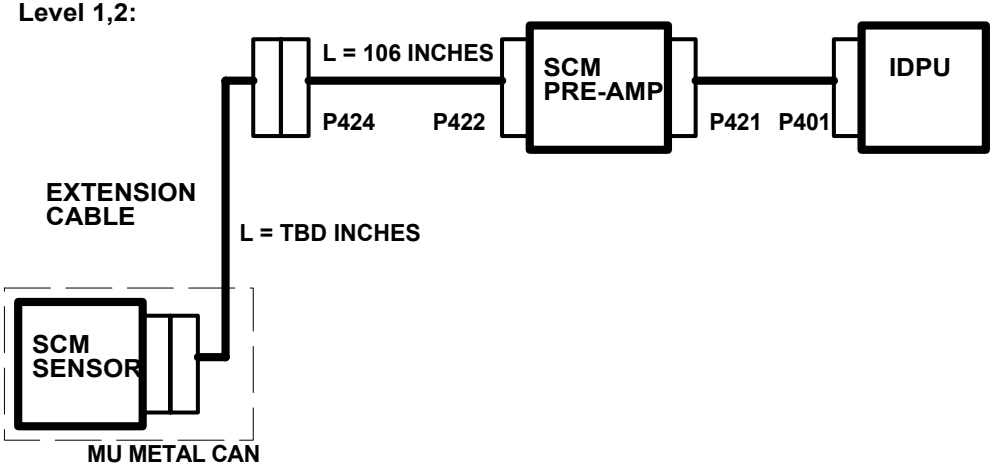
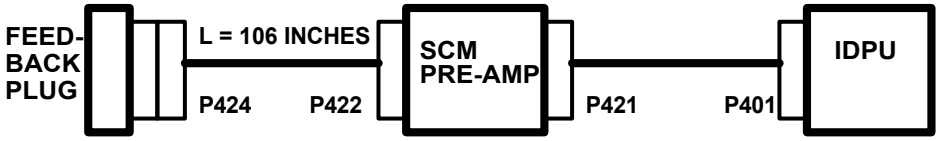
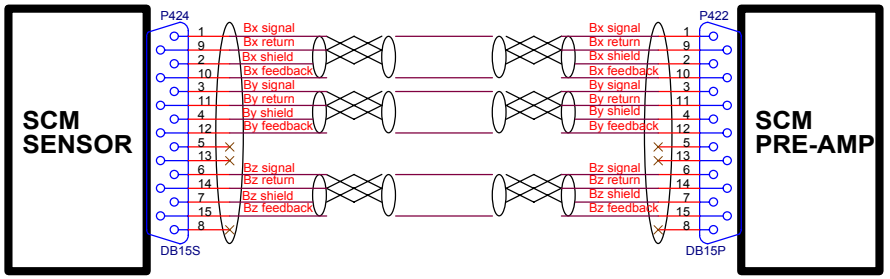
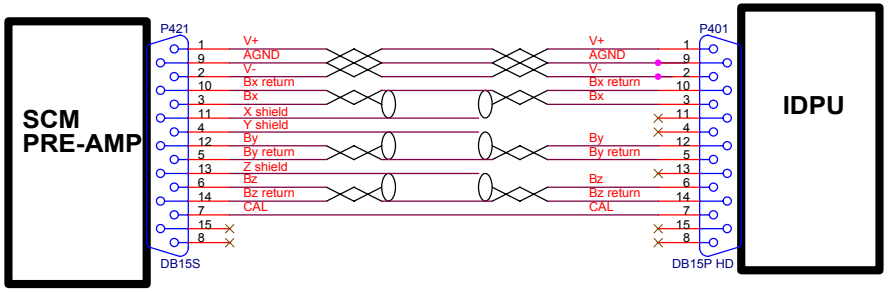


SAFETY (?)



HARNESS DETAILS





NOTES:

Title	THEMIS SCM HARNESS		
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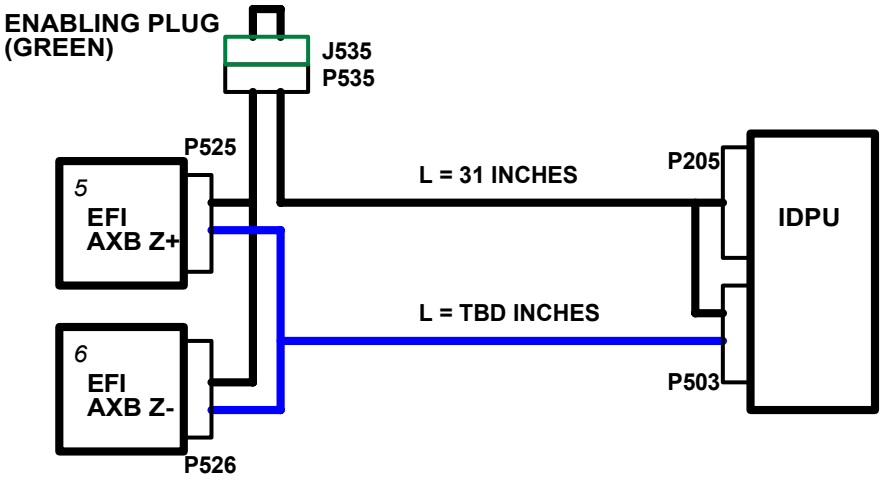
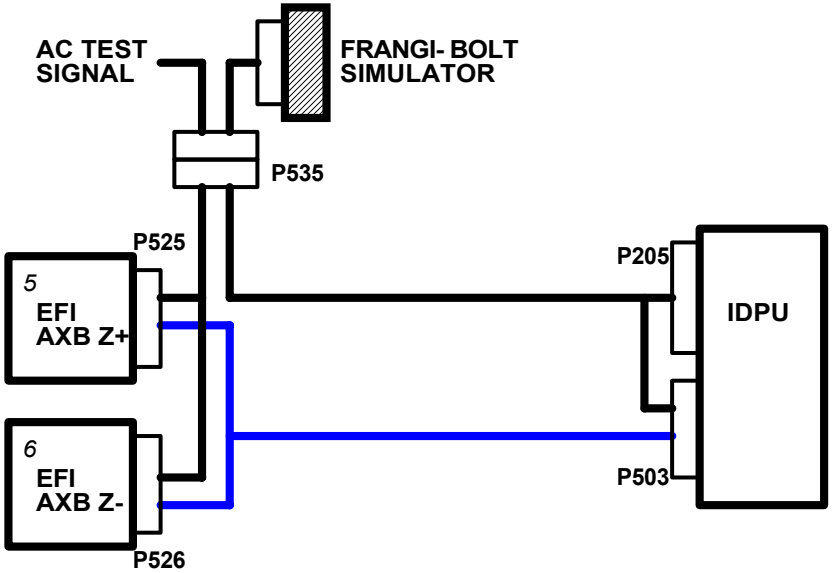
FLIGHT CONFIGURATION



TEST CONFIGURATION



NOTES:

See THM_AXB_HRN_001 Axial Boom Unit Wiring for Harness Details (Stu Harris, 23 Jan 04)

Title: THEMIS EFI AXB HARNESS		
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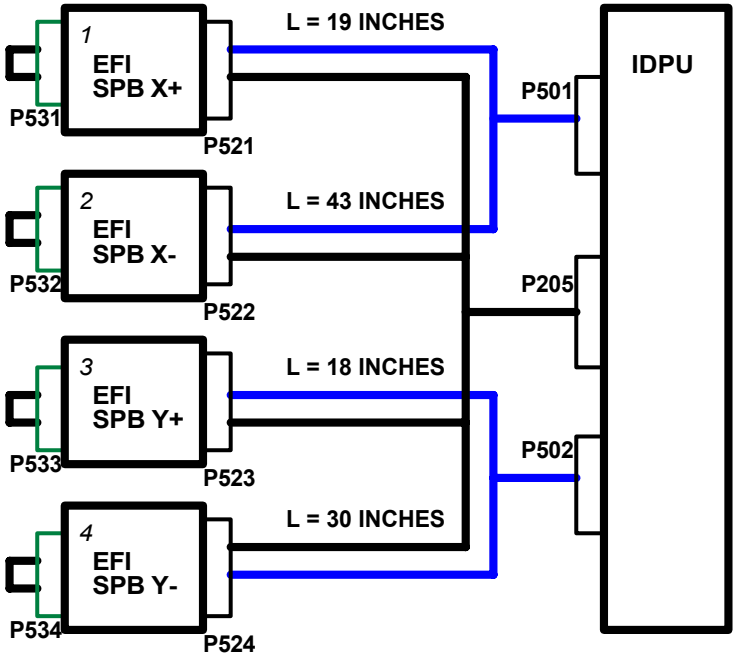
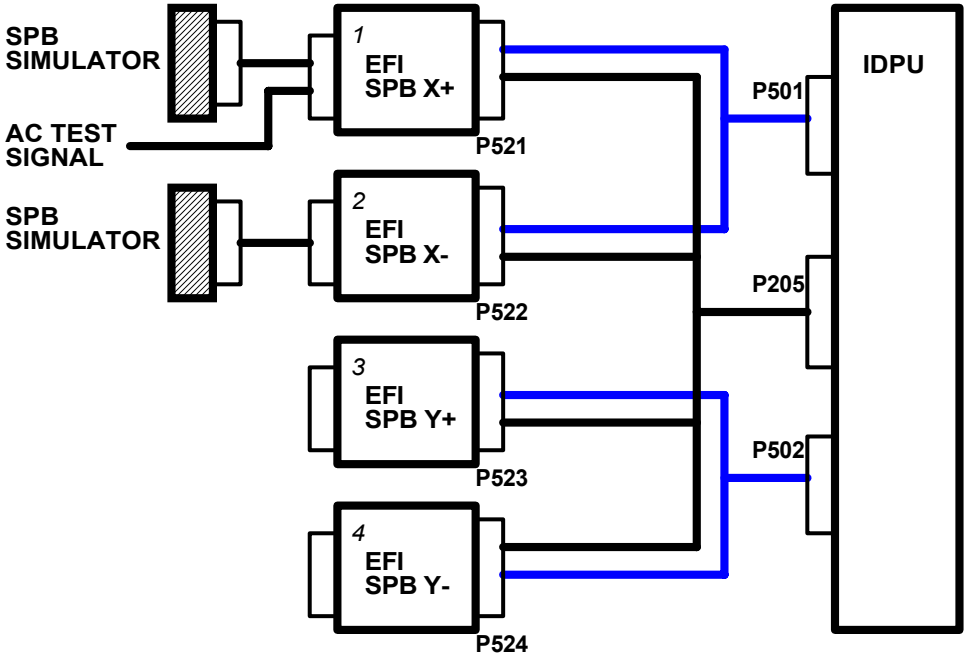
FLIGHT CONFIGURATION



ENABLING PLUGS (GREEN)

TEST CONFIGURATION



NOTES:

1. See THM_SPB_HRN_001 Spin Plane Boom Unit Wiring for Harness Details (Stu Harris, 26 Jan 04)
2. SPB Deployment will be tested in Pairs (w/Simulators)
3. Actual SPB Deployment will be tested at Instrument Payload Level. Actual deployment will not be tested at Probe Level.
4. Simulators will be replaced with ETU Motors for Instrument Payload Thermal Vacuum Test

Title: THEMIS SPB HARNESS		
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