POST INSERTION

STS 8

CONTENTS

	PAGE
POST INSERTION PROCEDURES	1-1
ON-ORBIT SWITCHLIST	1A-1
ATO POST INSERTION PROCEDURES	2-1

NOTES

1. The STS-8 Post Insertion contains the nominal procedures from:

   MET (DAY/HR:MIN)
   0/00:51 TO 0/02:30 - POST INSERTION (Section 1)

   The remaining STS-8 flight phases are conducted using the Ascent Checklist, Crew Activity Plan, Deorbit Prep Book, and Entry Checklist.

2. The trajectory data used for this document are based on an August 30, 1983 launch date (STS-8 Cycle 4.1).

3. The ATO Post Insertion procedures are built for a delayed OMS 2 burn.

POST INSERTION PROCEDURES

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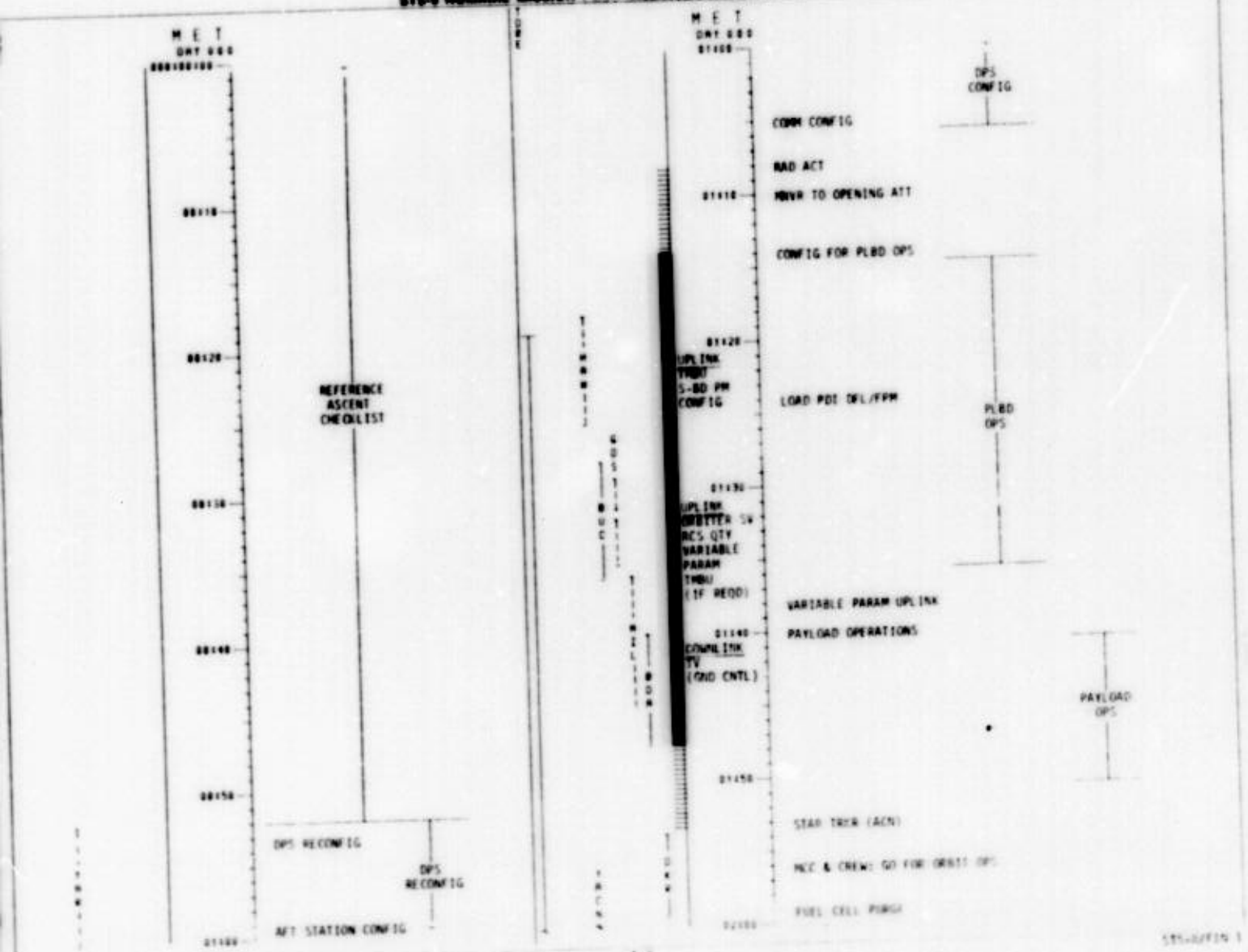
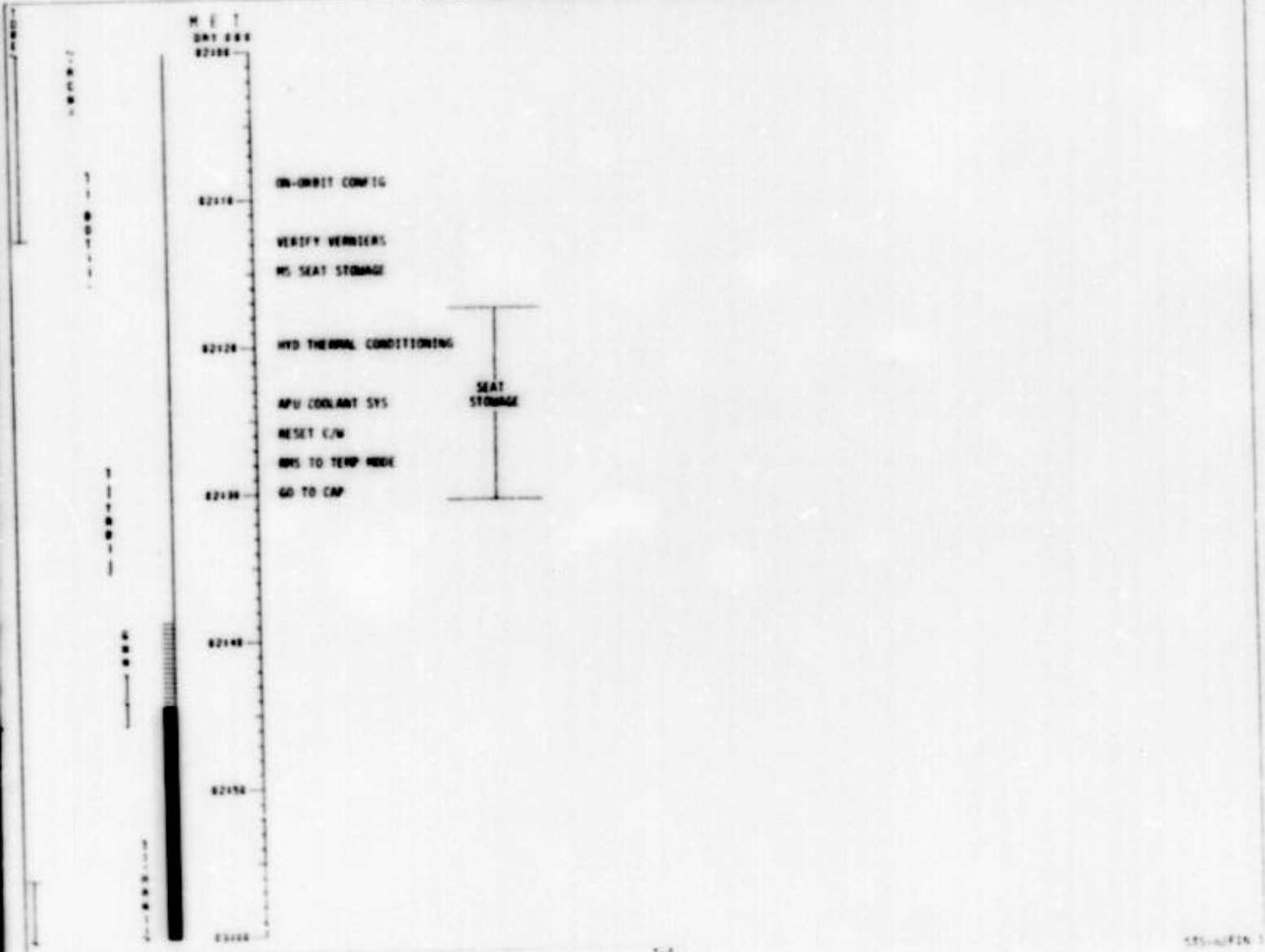

M E T
DAY 000
00/00/00
00/10
00/20
00/30
00/40
00/50
01/00
REFERENCE ASCENT CHECKLIST
DPS RECONFIG
DPS RECONFIG
AFT STATION CONFIG
M E T
DAY 000
01/00
01/10
01/20
01/30
01/40
01/50
02/00
DPS CONFIG
COMM CONFIG
RAD ACT
MNVR TO OPENING ATT
CONFIG FOR PLBD OPS
UPLINK TVBDT S-BD PM CONFIG
LOAD PDI DFL/FPM
PLBD OPS
UPLINK ORBITER SW RCS QTY VARIABLE PARAM TMBU (IF REQD)
VARIABLE PARAM UPLINK
PAYLOAD OPERATIONS
COMPLINK TV (GND CNTL)
PAYLOAD OPS
STAR TRKR (ACN)
MCC & CREW GO FOR ORBIT OPS
FUEL CELL PURGE


MET
DAY HR
ON-ORBIT CONFIG
VERIFY VERNIERS
MS SEAT STOWAGE
HYD THERMAL CONDITIONING
APU COOLANT SYS
RESET C/W
OMS TO TERP MODE
GO TO CAP
SEAT STOWAGE

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CONFIG GPCs FOR OPS 2 [1]

* For single PASS GPC failure, build PASS set as follows:

Failed GPC	GPC 1	2	3	4
1	X	G2	FD	S2
2	G2	X	FD	S2
3	G2	FD	X	S2
4	G2	S2	FD	X

In step 1:
Assign strings 1 & 4 to one GPC and strings 2 & 3 to the other GPC

C,P 1. **REASSIGN G3FD GPC STRING TO ANOTHER GPC IN MC 1**

[GNC 0 GPC MEMORY]
CONFIG - ITEM 1 + 1 EXEC
Modify MC 1 per Table
C3 0FC CRT DISP - OFF
GNC, OPS 106 /MU
[GNC 0 GPC MEMORY]

CONFIG GPC	1 12340
STR 1	1
2	2
3	2
4	4
PL 1/2	1
CRT 1	1
2	2
3	2
4	0
L 1	1
2	2
MM 1	1
2	2

* Caution *
* If OFS is stand alone (0FC lt flash) *
* 0FC CRT DISP.pu - ON *
* OFS, GNC 10 RESET EXEC *
* 0FC CRT DISP - OFF *

2. **REASSIGN ALL STRINGS TO G3FD GPC IN MC 3**

CONFIG - ITEM 1 + 3 EXEC
Modify MC 3 per Table

CONFIG GPC	3 00300
STR 1	3
2	3
3	3
4	3
PL 1/2	0
CRT 1	3
2	3
3	3
4	0
L 1	0
2	0
MM 1	3
2	3

3. **MODE G3FD GPC TO OPS 0**

06 GPC MODE G3FD - STBY (tb-bp), RUN (tb-RUN)

4. **LOAD MC 3 INTO G3FD GPC**

CRT4 PL, GPC/CRT G3FD GPC/4 EXEC
[4: PL 0 GPC MEMORY]
CONFIG - ITEM 45 + 3 EXEC
GPC - ITEM 46 + (G3FD) EXEC
STORE - ITEM 47 EXEC
Store complete when MC - 03(- 12 sec)

* If no MC - 03 after 2 min: *
* a.Cycle pwr on MMU 1 & 2, wait 1 min *
* b.Retry GPC FREEZE DRY (Step 4) *
* If FD successful, continue with step 5 *
* If not successful: *
* c.If no GPC failed, restring 1 & 4 to GPC 1 *
* and 2 & 3 to GPC 4, then try to FD GPC 2 *
* d.If one GPC failed, restring all strings to *
* lowest ID GPC, then try to FD other GPC *
* If FD successful: *
* e.Consider first attempted FD GPC to *
* be failed and continue with step 5 *
* If not successful: *
* f.Both MMUs failed - set up ASAP for *
* OPS 3 overlay (MALF, OPS, SSR-11) *

5. **SECURE OFS**

C3 0FC CRT DISP - ON
CRT3 OFS, GNC, OPS 000 PRO
[3: OFS, OFS MEMORY]
C3 0FC CRT DISP - OFF

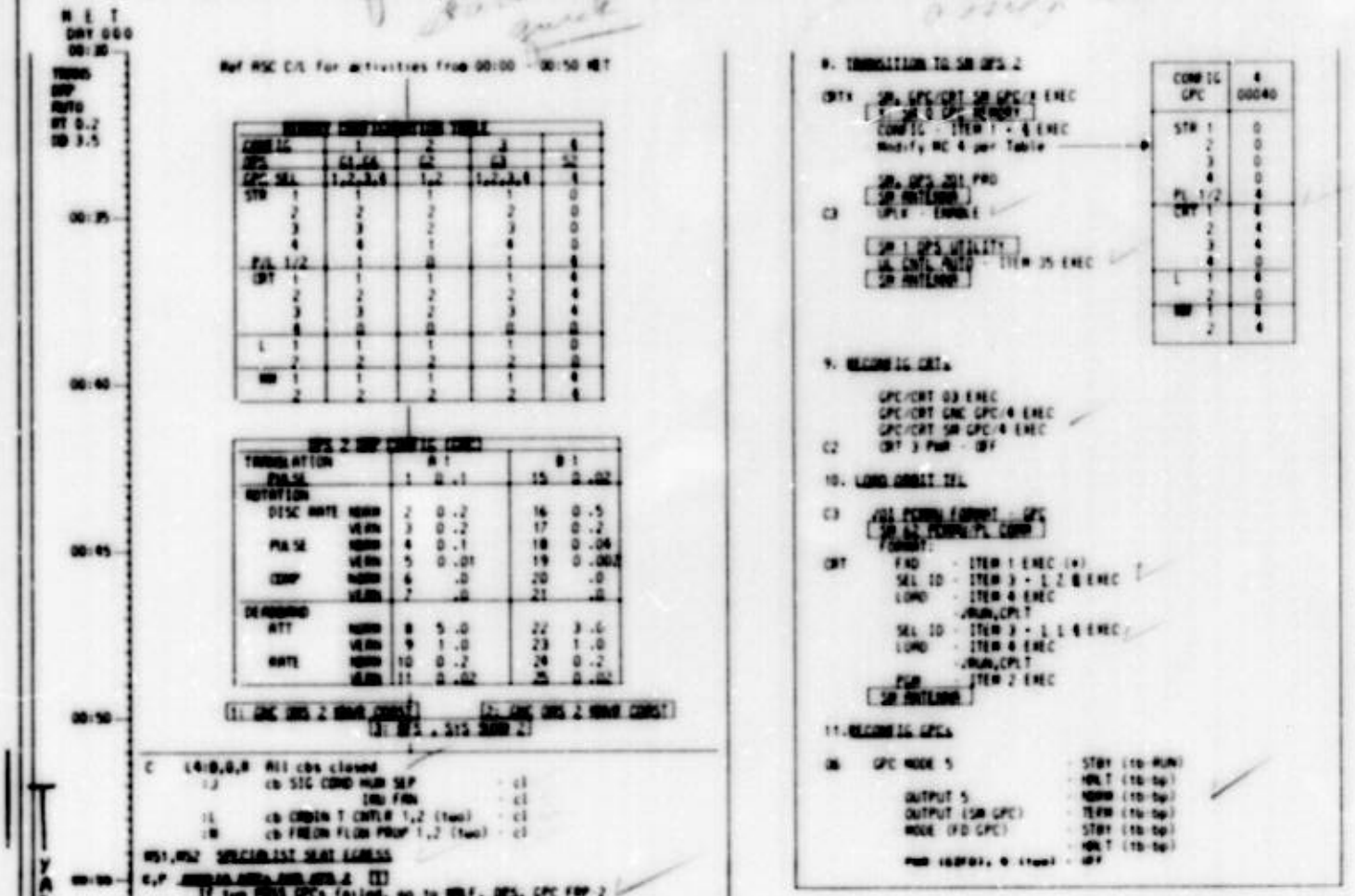
6. **TRANSITION TO GNC OPS 2**

[GNC 0 GPC MEMORY]
CONFIG - ITEM 1 + 2 EXEC
Modify MC 2 per Table

GNC, OPS 201 PRO
[GNC UNIV PTG]

7. **TURN OFF 0FC LT**
C2 0FS, MSG RESET (/0FC LT - OFF)

CONFIG GPC	2 12000
STR 1	1
2	2
3	2
4	1
PL 1/2	0
CRT 1	1
2	2
3	2
4	0
L 1	0
2	0
MM 1	1
2	2



M E T
DAY 000
00:30
TRANS
DFP
AUTO
RT 0.2
DD 3.5

Ref ASC C/L for activities from 00:00 - 00:50 MET

[illegible]					
CONFIG		1	2	3	4
OPS		G1,G6	G2	G3	S2
GPC SEL		1,2,3,4	1,2	1,2,3,4	4
STR	1	1	1	1	0
	2	2	2	2	0
	3	3	2	3	0
	4	4	1	4	0
P/L 1/2		1	0	1	4
CRT	1	1	1	1	4
	2	2	2	2	4
	3	3	2	3	4
	4	0	0	0	0
L	1	1	1	1	0
	2	2	2	2	0
MM	1	1	1	1	4
	2	2	2	2	4

00:35

00:40

OPS 2 [illegible]					
TRANSLATION		A 1		B 1	
PULSE		1	0 .1	15	0 .02
ROTATION					
DISC RATE	NORM	2	0 .2	16	0 .5
	VERN	3	0 .2	17	0 .2
PULSE	NORM	4	0 .1	18	0 .04
	VERN	5	0 .01	19	0 .002
COMP	NORM	6	.0	20	.0
	VERN	7	.0	21	.0
DEADBAND					
ATT	NORM	8	5 .0	22	3 .0
	VERN	9	1 .0	23	1 .0
RATE	NORM	10	0 .2	24	0 .2
	VERN	11	0 .02	25	0 .02

00:45

[1: GNC OPS 2 [illegible] CONST] [2: GNC OPS 2 [illegible] CONST]
[3: OFS , SYS [illegible] 2]

00:50

C L4:B,O,R All cbs closed
:J cb SIG COND HUM SEP - cl
IMU FAN - cl
:L cb CRDIN T CNTLR 1,2 (two) - cl
:M cb FREON FLOW PROP 1,2 (two) - cl

M51,M52 SPECIALIST SEAT EGRESS

00:55

C,P [illegible] [1]
If two PASS GPCs failed, go to MALF, OPS, GPC FRP 2
If OFS engaged go to MALF, OPS, GPC FRP 4

DALE
[illegible] [illegible] M52 Cue Card [2]

GUY
[illegible] [illegible] M51 Cue Card [3]

YAR

A1(B1)
AUTO
NORM
RT 0.2
DD 5.0

01:00

8. TRANSITION TO SM OPS 2

CRTX SM, GPC/CRT SM GPC/X EXEC
[X: SM 0 GPC MEMORY]
CONFIG - ITEM 1 + 4 EXEC
Modify MC 4 per Table

SM, OPS 201 PRO
[SM ANTENNA]
C3 UPLK - ENABLE

[SM 1 OPS UTILITY]
UL CNTL AUTO - ITEM 35 EXEC
[SM ANTENNA]

CONFIG GPC	4 00040
STR 1	0
2	0
3	0
4	0
PL 1/2	4
CRT 1	4
2	4
3	4
4	0
L 1	4
2	0
MM 1	4
2	4

9. RECONFIG CRTs

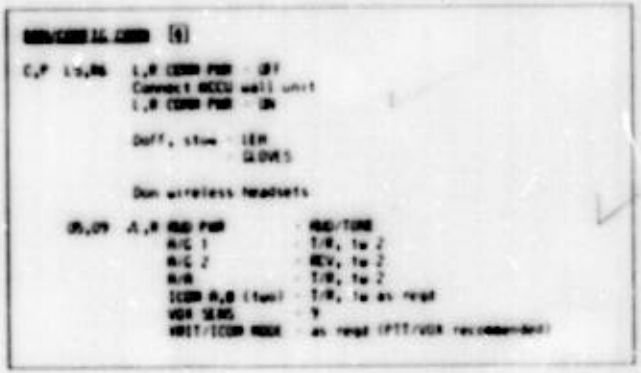
GPC/CRT 03 EXEC
GPC/CRT GNC GPC/4 EXEC
GPC/CRT SM GPC/4 EXEC
C2 CRT 3 PWR - OFF

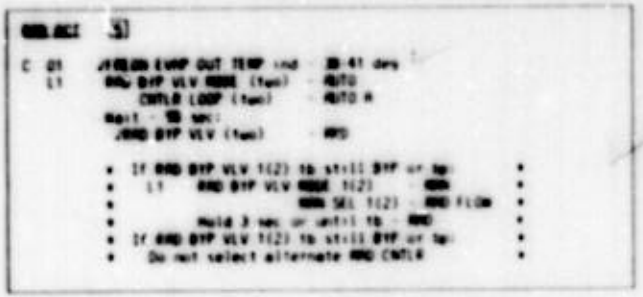
10. LOAD ORBIT TFL

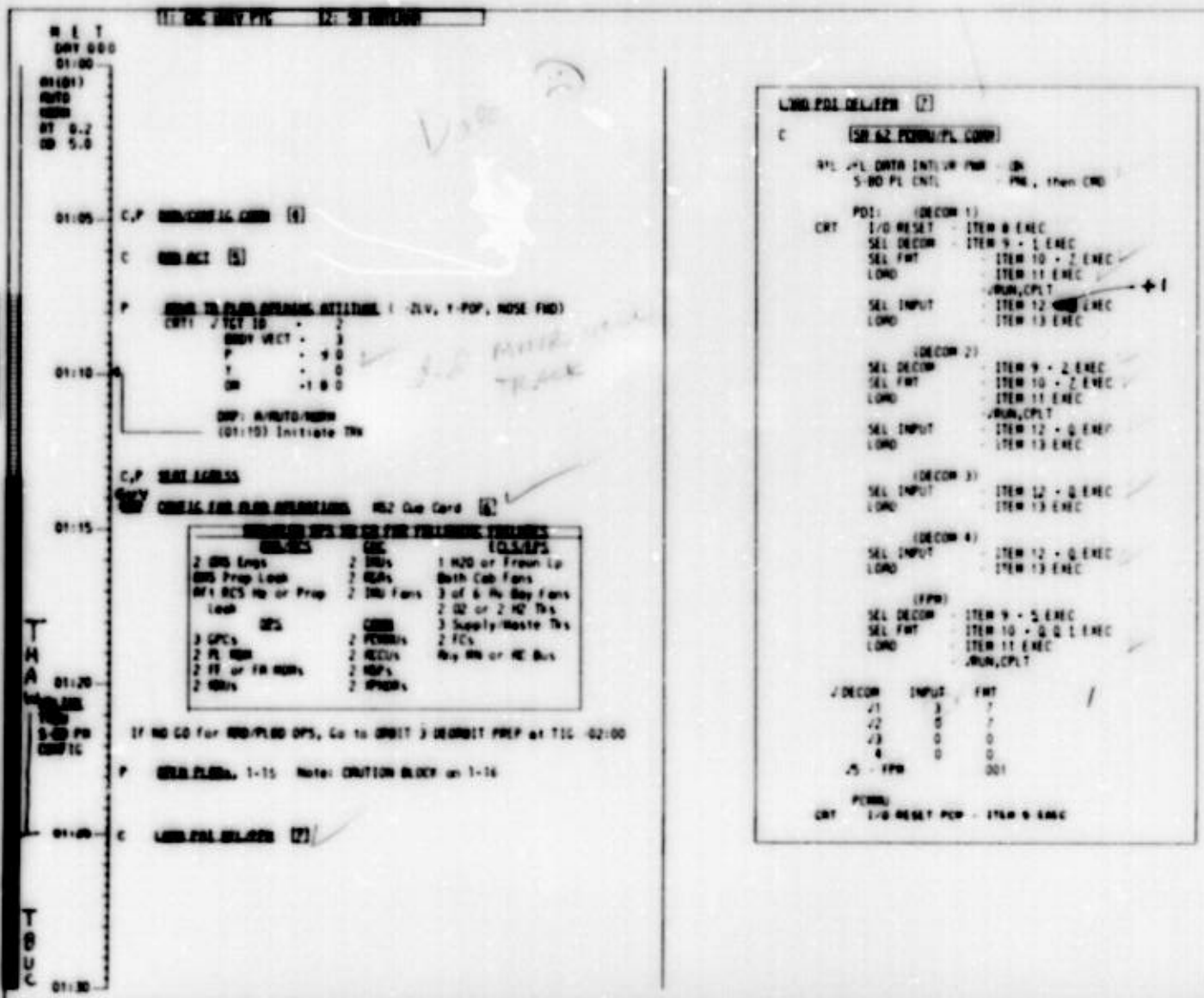
C3 [illegible] PCMMU FORMAT - GPC
[SM 62 PCMMU:PL COMM]
FORMAT:
CRT FXD - ITEM 1 EXEC (*)
SEL ID - ITEM 3 + 1 2 8 EXEC
LOAD - ITEM 4 EXEC
-2RUN,CPLT
SEL ID - ITEM 3 + 1 1 4 EXEC
LOAD - ITEM 4 EXEC
-2RUN,CPLT
PGM - ITEM 2 EXEC
[SM ANTENNA]

11. RECONFIG GPCs

06 GPC MODE 5 - STBY (tb-RUN)
- HALT (tb-bp)
OUTPUT 5 - NORM (tb-bp)
OUTPUT (SM GPC) - TERM (tb-bp)
MODE (FD GPC) - STBY (tb-bp)
- HALT (tb-bp)
PWR (GPC), 4 (two) - OFF







[illegible]

M E T
DAY 000
01:00
A1(01)
AUTO
NORM
AT 0.2
OD 5.0

01:05 C,P [illegible] [4]

C [illegible] [5]

P [illegible] ATTITUDE (-ZLV, Y-POP, NOSE FWD)
CRT1 ✓ TGT ID - 2
BODY VECT - 3
P - 9 0
Y - 0
OM -1 8 0

01:10 DAP: A/AUTO/NORM
(01:10) Initiate TRK

C,P [illegible]
[illegible] [illegible] [illegible] M52 Cue Card [6]

01:15

[illegible]		
[illegible]	[illegible]	[illegible]
2 [illegible] Engs	2 [illegible]	1 H2O or Freon Lp
[illegible] Prop Leak	2 [illegible]	Both Cab Fans
Aft RCS Hz or Prop Leak	2 [illegible] Fans	3 of 6 Av Bay Fans
		2 O2 or 2 H2 Tks
[illegible]	[illegible]	3 Supply/Waste Tks
3 GPCs	2 [illegible]	2 FCs
2 PL [illegible]	2 [illegible]	Any MN or AC Bus
2 FF or FA [illegible]	2 [illegible]	
2 [illegible]	2 [illegible]	

01:20

THA

[illegible]
S-BD PM
CONFIG

If NO GO for [illegible] OPS, Go to ORBIT 3 DEORBIT PREP at TIG -02:00

P [illegible], 1-15 Note: CAUTION BLOCK on 1-16

01:25 C [illegible] [7]

TBUC

01:30

LOAD PDI DEL/FPM [7]

C [illegible]

[illegible] DATA [illegible] - [illegible]
S-BD PL CNTL - PNL, then CMD

PDI: (DECOM 1)
CRT I/O RESET - ITEM 8 EXEC
SEL DECOM - ITEM 9 - 1 EXEC
SEL FMT - ITEM 10 - 2 EXEC
LOAD - ITEM 11 EXEC
-✓RUN,CPLT
SEL INPUT - ITEM 12 [illegible] EXEC
LOAD - ITEM 13 EXEC

(DECOM 2)
SEL DECOM - ITEM 9 - 2 EXEC
SEL FMT - ITEM 10 - 2 EXEC
LOAD - ITEM 11 EXEC
-✓RUN,CPLT
SEL INPUT - ITEM 12 - 0 EXEC
LOAD - ITEM 13 EXEC

(DECOM 3)
SEL INPUT - ITEM 12 - 0 EXEC
LOAD - ITEM 13 EXEC

(DECOM 4)
SEL INPUT - ITEM 12 - 0 EXEC
LOAD - ITEM 13 EXEC

(FPM)
SEL DECOM - ITEM 9 - 5 EXEC
SEL FMT - ITEM 10 - 0 0 1 EXEC
LOAD - ITEM 11 EXEC
-✓RUN,CPLT

✓DECOM	INPUT	FMT
✓1	3	7
✓2	0	7
✓3	0	0
4	0	0
✓5 - FPM		001

PCMMU
CRT I/O RESET PCM - ITEM 9 EXEC

+1

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[1: GNC UNIV PTG [2: SM PL BAY DOORS [4: SM PL BAY DOORS

M E T
DAY 000
01:30
A1(B1)
AUTO
NORM
RT 0.2
DD 5.0
UPLINK
ORBITER SV
RCS QTY

01:35 C POST PLAD OPS RAD CONFIG [8]

GUY
UPLINK VARIABLE PARAM
POST PLAD OPS CONFIG MS1 Cue Card [9]

THRU (IF REQD) C SET UP FOR VARIABLE PARAM UPLK
[1: GNC 1 OPS UTILI]

01:40 C 06 STAR TRK PWR (two) - ON

BOTH
PAYLOAD ON ORBIT OPS (PAM DEPLOY C/L, ON ORBIT OPS,
POST INSERTION SUNSHIELD CLOSING, INSAT HEALTH CHECK)

DALE
01:45 MIDDECK CONFIG MS2 Cue Card [10]

01:50

C STAR TRKR SELF TEST/DOOR OPEN [11]

01:55 MCC & CREW: GO FOR ORBIT OPS

P FUEL CELL AUTO PURGE Cue Card

02:00

BUC+BDA

DKR/ACN

POST PLAD OPS RAD CONFIG [8]

C [1: SM 88 APU/ENVIRON THERM]

NOTE

FREON LOOP RAD OUT temps will not drop to their normal operating range (< 60 deg) until ~ 15 min after doors are opened

L1 NH3 CNTLR A(B) - OFF
√RAD BYP VLV tb (two) - RAD

CRT1 When FREON LOOP RAD OUT T < 60 DEG:
L1 HI LOAD EVAP - OFF

[1: GNC UNIV PTG]

STAR TRKR SELF TEST/DOOR OPEN [11]

C 06 √STAR TRK PWR (two) - ON
GNC, I/O RESET EXEC

[1: GNC 22 S TRK/COAS CNTL]

If SHUTTER - CL:
ITEM 15(16) EXEC (*)
ITEM 15(16) EXEC (no *)

CRT √S TRK -Y, -Z STATUS (two) - blank
SELF-TEST -Y, -Z (two) - ITEM 1,2 EXEC
√S TRK -Y, -Z STATUS (two) - ST PASS (~ 30 sec)
* If self test fails, redo once & proceed *

06 STAR TRKR DR CNTL SYS (two) - OP
√POS tb (two) - bp (start timer)
When both tb-OP (8-24 sec), or either tb - bp for >24 sec,
CNTL SYS (two) - OFF

CRT STAR TRK - ITEM 3,4 EXEC

NOTE

If tb-bp > 12 sec (one mtr problem), or > 24 sec (two mtr problem), notify MCC

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[1: GNC UNIV PTG] [2: SM ANTENNA] [4: SM ANTENNA]

M E T
DAY 000

02:00 C,P CLOTHING CONFIG [12]

A1 (B1)
AUTO
[illegible]
RT 0.2
DB 5.0

MS1,MS2 CLOTHING CONFIG MS1,MS2 Cue Card [13]

02:05

02:10 C,P CONFIG CONTROLS FOR ON-ORBIT, 1A-1 thru 1A-9
MUD covers (two) unstow, install

MS1,MS2 SPECIALIST SEAT REMOVAL/STOWAGE

02:15 C CONFIG VERNIER CONTROL
Verify GO to use Vernier jets

016:F AJD MANF L5/F5/R5 DRIVER - ON
DAP: A/AUTO/VERN

P ORB OPS C/L, ECLS, RAD DEPLOY, 5-13

02:20 P ORB OPS C/L, APU/HYDRAULICS, HYD THERMAL CONDITIONING - ENABLE

P SWITCH APU COOLANT SYS
R2 APU FUEL PUMP/VLV COOL A - OFF
B - AUTO

02:25

P RESET C/W [14]

DALE
[illegible] PWR-UP RMS TO TEMP MODE (if RMS) MS2 Cue Card [15]

C Go to CAP, FLT DAY 1, for IMU ALIGN, 4-2

02:30

CLOTHING CONFIG [12]

C,P Doff, stow
Harnesses, boots

Doff, stow in Wet Trash
UCD (clamp if used)
Fecal/Emesis Bag, if used (unstow new bag)

RESET C/W [14]

RT30		
C/W CH	PARAMETER NAME	UPPER LIMIT
107	FREON LOOP EVAP OUT T1	2.05V/65.3 deg
117	T2	2.05V/65.3 deg

R13		
C/W CH	PARAMETER NAME	CHA/INH
9	NPS He TK P C	INH
19	L	INH
29	R	INH
39	REG P C	INH
49	L	INH
59	R	INH
99	HYD B/U P 1	INH
109	2	INH
119	3	INH

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PLBD OPENING PROCEDURE

P CRT4 SM, OPS 202 PRO
[2: SM PL BAY DOORS] [4: SM PL BAY DOORS]
AC POWER ON - ITEM 1 EXEC (*)

R13L /PL BAY DR - STOP
CRT4 AUTO MODE SEL - ITEM 3 EXEC (*)
R13L PL BAY DR - OP (start timer)
Verify the following dual otr times during opening sequence:
1. CENTER LATCHES 5-8, 9-12 (two) - blank, OP (- 20 sec)
1-4, 13-16 (two) - blank, OP (- 20 sec)
2. STBD FWD & AFT LATCHES - blank (- 30 sec), OP
3. STBD DOOR - RDY, blank (- 60 sec), OP
4. PORT FWD & AFT LATCHES - blank (- 30 sec), OP
5. PORT DOOR - RDY, blank (- 60 sec), OP
R13L PL BAY DR - STOP (stop timer)
Total Elapsed Time - 3:40

CRT4 AC POWER OFF - ITEM 2 EXEC
SM, OPS 201 PRO
[2: SM ANTENNA] [4: SM ANTENNA]

CAUTION

If SM GPC fails during any PLBD test:

```
06      MDM PL1,2 (two) - OFF
        GPC MODE 4      - STBY, HALT
        MDM PL1,2 (two) - ON
```

Reload SM into GPC 2
Perform MALF, OPS, SSR-3 and OPS, SSR-4

When opening/closing any PLBD latch group

- If no OP after 40 sec c/l (60 sec bhd)
  1. with at least one open microswitch indication, continue PLBD procedures
  2. with no open microswitch indication, Perform MALF, MECH 9.1h
- If no CL after 40 sec c/l (60 sec bhd):
  1. with at least one closed microswitch indication, continue PLBD procedures
  2. otherwise Perform MALF, MECH 9.1i
- If a c/l latch closes on a single mtr (40 sec), continue Flight for Priority Msn
- If a bhd latch closes on a single mtr (60 sec), continue nominal Flight
- Always note any single mtr latch operations
- If one mtr fails in two c/l or bhd latch gangs, Prepare to Deorbit. If a Deorbit Opp not available, reopen PLBD
- If no latch or door motion within - 10 sec after cmd (no motion determined visually):
  PL BAY DR - STOP, Perform MALF, MECH 9.1a

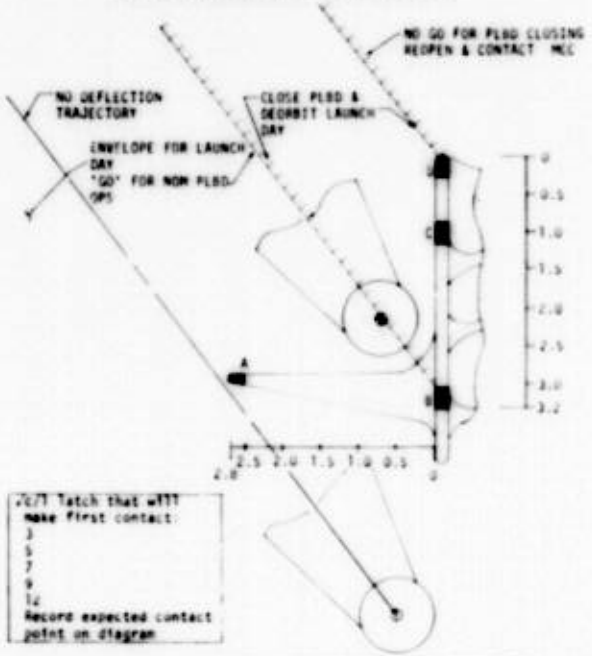
When opening/closing PLBD

- If door motion stops and no OP/RDY status:
  PL BAY DR - STOP, Perform MALF, MECH 9.1j for opening or 9.1k for closing
- If door closes on a single mtr (- 120 sec), reopen PLBDs, continue to priority flight
- For failed open latches, do not attempt to close unless an Entry capability is available

FUNCTION	PLBD CONTROL Ref MA73C:C & D for MCA cbs						PLBD DISPLAYL MDM	
	MTR 1			MTR 2			C C D D	C R R R D
	AC/MCA	CNTL	MDM	AC/MCA	CNTL	MDM	A B A B	A B C
LATCH								
5-8	1/MID3	AB3	PL1	3/MID2	CA3	PL2	1 2 1 2	
9-12	1/MID1	AB3	PL1	3/MID4	CA3	PL2	1 2 1 2	
1-4	1/MID3	AB3	PL1	3/MID2	CA3	PL2	1 2 1 2	
13-16	3/MID4	CA3	PL2	2/MID2	BC3	PL1	2 1 2 1	
S FWD	1/MID1	AB3	PL1	2/MID4	BC3	PL2	1 2 1 2	
A AFT	3/MID4	CA3	PL2	2/MID2	BC3	PL1	2 1 2 1	
S DOOR	1/MID1	AB3	PL1	2/MID4	BC3	PL2		1 1 2 2 1 2 1 2 2 2
P FWD	1/MID1	AB3	PL1	2/MID4	BC3	PL2	1 2 1 2	
P AFT	1/MID3	AB3	PL1	3/MID2	CA3	PL2	1 2 1 2	
P DOOR	3/MID4	CA3	PL2	2/MID2	BC3	PL1		2 1 1 2 2 1 1 1 2 1

LAUNCH DAY NO GO CRITERIA DIAGRAM

C/L LATCH EXTENDED GUIDE ROLLER TRAJECTORY



c/l latch that will make first contact:
3
5
7
9
12
Record expected contact point on diagram

MS1 POST INSERTION RECONFIGURATION

[illegible] CONFIG [3]

MS1 POST SEAT EGRESS

O14:D cb MNB CMD VENT (two) - up

A12 APU HTR GMS GEN/FUEL PUMP (three) - OFF
APU HTR TK/FU LINE/H2O SYS 1A,2A, 3A - AUTO

CAUTION
Return Htrs to A-AUTO if APU FUEL T PUMP OUT/OUT LN (SOD APU/ENVIRON THERM) exceeds lower FDR limit

A14 RCS/OMS HTR FWD RCS - A AUTO
L POD (two) - A AUTO,B OFF
R POD (two) - A AUTO,B OFF
OMS CRSFD LINES (two) - A AUTO,B OFF
FWD, AFT RCS JET (ten) - AUTO

MS1 COMM CONFIG

Don wireless headset

A11 MS COMM CCU PWR - OFF
Connect HCCU wall unit
MS COMM CCU PWR - ON

A10 AMS AUD PWR - AUD/TONE
A/G 1 - T/R, to 2
A/G 2 - REV, to 2
A/R - T/R, to 2
ICOM A,B (two) - T/R, to as reqd
VOX SENS - 9
XMIT/ICOM MODE - as reqd (PTT/VOX recommended)

ON ORBIT CONFIG

Unstow, deploy ORBIT CLR CHRGS, PL DEPLOY C/L, ORBIT PRT C/L (2), PHOTO/TV C/L

A1U AAU CNTL - CMD
PWR - ON
SIG PROC MDR - TV
LDR - OPS RCDR

A1L S-BD FR MODE - TDRS DATA
KU/P DATA RATE (two) - LO
CODING (two) - ON

A1R S-BD FR DATA SOURCE - OPS RCDR (rotary)
PL RCDR MODE - PRI RCD

TIME (MET)	MS1 ACTIONS
00:50	SPECIALIST SEAT EGRESS
00:59	MET STORTION CONFIG [3]
01:36	POST PLBD OPS CONFIG [5]
01:42	PAYLOAD ON-ORBIT OPS (PRM DEPLOY C/L, ON ORBIT OPS)
02:01	CLOTHING CONFIG [12]
02:12	SPECIALIST SEAT REMOVAL/STOWAGE

HP-41 SETUP

COMM COVERAGE Station	AOS	LOS
YAR	00:52	00:59
HAW	01:18	01:25
MIC	01:28	01:36
GDS	01:29	01:34
MIL	01:36	01:44
BDA	01:40	01:47
DAR	01:54	01:59
ACN	01:56	02:03
DOT	02:08	02:16
YAR	02:26	02:35
CNB	02:42	02:45
HAW	02:54	03:01

R15:C All cbs closed except KU CABLE HTR
:D All cbs closed
:E All cbs closed

R12L CRT 4 PWR - ON
R12U FC H2O LINE HTR - A AUTO

O17:A RTVC (four) - OFF
:B EIU (three) - OFF
:D REC 1 - OFF, wait 2 sec, then
2 - OFF

O16:E cb MNC DDU AFT - cl
O14:E cb MNA DDU AFT - cl

TELEPRINTER CONFIG

L9 PS AUD PWR - AUD
A/G 1 - OFF
A/G 2 - T/R
A/R - OFF
ICOM (two) - OFF
VOX A/G 2 to - 9
XMIT/ICOM MODE - PTT/PTT

A15 APS COMM CCU PWR - OFF
Connect TPR cable to PS CCU Connection
DC UTIL PWR MNC - ON (Teleprinter)

MS1 POST INSERTION RECONFIGURATION

609

[redacted] [9]

MS1 A7U PL [redacted] FLOOD (all) - OFF

CLOTHING CONFIG [12]

MS1 Doff, stow
Harnesses, boots
Biomed: Clean electrodes w/ wet wipes
Disconnect IVA cable from signal conditioner
Stow in boots

Doff, stow in Wet Trash
UCD (clamp if used)
Fecal/Ileostomy Bag, if used (unstow new bag)

GUY

DALE

MS2 POST INSERTION RECONFIGURATION

COMM COVERAGE Station	AOS	LOS
YAR	00:52	00:59
HAW	01:18	01:25
BUC	01:28	01:36
GDS	01:29	01:34
MIL	01:36	01:44
BDA	01:40	01:47
DKR	01:54	01:59
ACN	01:56	02:03
BOT	02:08	02:15
YAR	02:28	02:35
GWM	02:42	02:45
HAW	02:54	03:01

TIME (MET)	MS2 ACTIONS
00:54	SPECIALIST SEAT EGRESS
00:58	UNSTOW/CONFIG COMM [2]
01:11	CONFIG FOR PLAD OPERATIONS [6]
01:45	MIDDECK CONFIG [10]
02:01	CLOTHING CONFIG [13]
02:12	SPECIALIST SEAT REMOVAL/STOWAGE
02:30	PWR-UP ANN TO TEMP [15]

MP-41 SETUP

UNSTOW/CONFIG COMM [2]

MS2 Unstow: Wireless headsets (four)
Don Wireless headset

MD39M MIDDECK COMM CCU PWR - OFF
Connect MCCU wall unit
MIDDECK COMM CCU PWR - ON

MD42F /MIDDECK SPKR AUD PWR - AUD/TONE
A/G 1 - T/R, tw 2
A/G 2 - RCV, tw 2
A/A - T/R, tw 2
ICOM A,B (two) - T/R, tw as reqd
VOX SENS - as reqd
XMIT/ICOM MODE - as reqd (PTT/VOX recommended)

ML26C SPLY H2O TK A PRESS CNTL vlv - PRESS (S66 CABIN,S66 H2O)

CONFIG FOR PLAD OPERATIONS [6]

MS2 SET UP LIGHTS, CAMRS, & MON

A1R AUD CTR PL BAY OUTLETS ICOM A - ON
A6U ANNUN BUS SEL - MNC

A7U PL BAY FLOOD FWD,AFT (four) - ON (~ 3 min to full bright)
FWD BHD - ON (~ 3 min to full bright)

NOTE
PL BAY FLOODS do not immediately re-illuminate if turned OFF/ON (~ 2-5 min delay)

CLOTHING CONFIG [13]

MS2 Doff, stow
Harnesses, boots
Biomed: Clean electrodes w/ wet wipes
Disconnect IVA cable from signal conditioner
Stow in boots

Doff, stow in Wet Trash
UCD (clamp if used)
Fecal/Emesis Bag, if used (unstow new bag)

MS2 POST INSERTION RECONFIGURATION

DALE

[illegible] CONFIG [10]

```
MS2  KL60:A  All cbs closed (H2O) except:
                 cb KMD H2O LINE HTR 0 - op
         :B  All cbs closed (MCS) except:
                 cb KMA GALLEY OVEN    - op
         :E  All cbs closed
         :F  All cbs closed except CRYO TK 4 as reqd
         :G  All cbs closed except CRYO TK 4 as reqd

     MA73C:E  All cbs closed (MCS & PL) except:
                 cb AC2 PL 30 - op
                 cb AC3 PL 30 - op

     KL31C  VAC VENT ISOL VLV CNTL - OP (tb-OP)
                    HDZ HTR        - ON
            Unstow, deploy: ORBIT MAP, WORLD ATLAS, HALF,
                            ORBIT OPS C/L(2), PL DEPLOY C/L(2)
   JETTISON
   BAG        Return to Houston Bag (mark)
              Stow Helmet Bag  containing:
                Ascent Cue Cards
                ASC C/L (3)
                ASC PKT C/L (3)

   MCS     VAC VLV - OP
           Foot restraint - down & locked
           ✓EMESIS/FECES - FECES
           ✓MCS functions properly (if not already used)

           Unstow, install:
             IVA foot restraints (if desired)
             FDF restraints (bungees)
             FD,MD Stowage Bags (3)
             Return to Houston Bag (mark)

           Mirror (2, MMC door, wall)
           Facial Tissue dispensers (2, pocket)
           Toilet Tissue
           Wet Wipe Dispenser
           MCS Wipes/Cleanser (aft MMC wall)
```

PWR-UP RMS TO TEMP MODE (if RMS) [15]

```
MS2  RMS AC PWR
     MA73C:F cb AC1 RMS PRI 0A - cl
                AC2 RMS B/U 0A - cl

     RMS TEMP MODE
     ARL     RMS PWR - PRI (MA)
             [4: SM 94 PDRS CONTROL] (MA, GPC DATA lt-on)
     CRT4    I/O ON - ITEM 5 EXEC (*)
             [4: SM ANTENNA]

     ARU     SAFING        - CANCEL (tb-bp)
             ✓GPC DATA lt - off

     PNL TEST
     ARU     Adjust pnl ltg as reqd

             CAUTION
             Selection of PARAM sel - TEST for
             > 30 sec may cause pnl A8 to overheat

     ARU     PARAM sel - TEST (MA) (< 30 sec)
             ✓IND 1,2,3 - + 0.0.0.0
             ✓All pnl A8 lts - on
             PARAM sel - POS X/Y/Z

     RMS HTR ACT
             PARAM sel - PORT TEMP
             JOINT - CRIT TEMP (✓ INDs (three) - blank)
     ARL     PORT RMS HTR - AUTO

     RMS SHOULDER BRACE RELEASE
     ARL     RMS SEL - PORT (MA, REACH LIM lt - on, SINGULAR lt - on)
     ARU     SHLDR BRACE REL - PORT (hold for 2 sec following tb - gray)
     ARL     RMS SEL - OFF
```

ON-ORBIT SWITCH LIST

LEFT SEAT

L1.....1A-3
L2.....1A-3

F6.....1A-2

05.....1A-4
06.....1A-4
07.....1A-5
014.....1A-6
015.....1A-7

RIGHT SEAT

016.....1A-7
08.....1A-5
09.....1A-6

F8.....1A-2

R1.....1A-3

AFT

C5.....1A-7
C6.....1A-7
C7.....1A-7

A11.....1A-8
A7L.....1A-8

MIDDECK-FWD

ML86B.....1A-9

MIDDECK-AFT

MA73C.....1A-9
MA75H.....1A-8

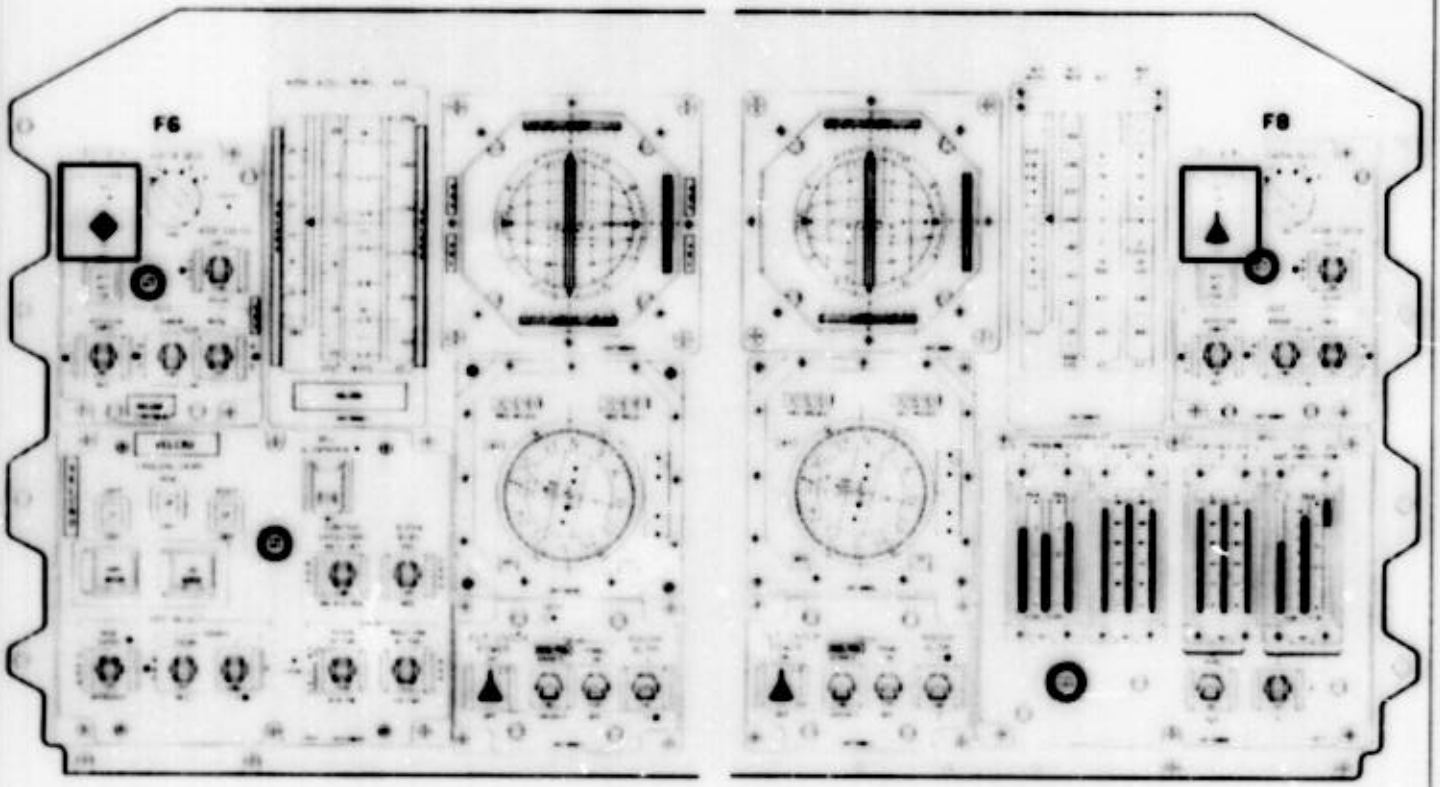
LEGEND

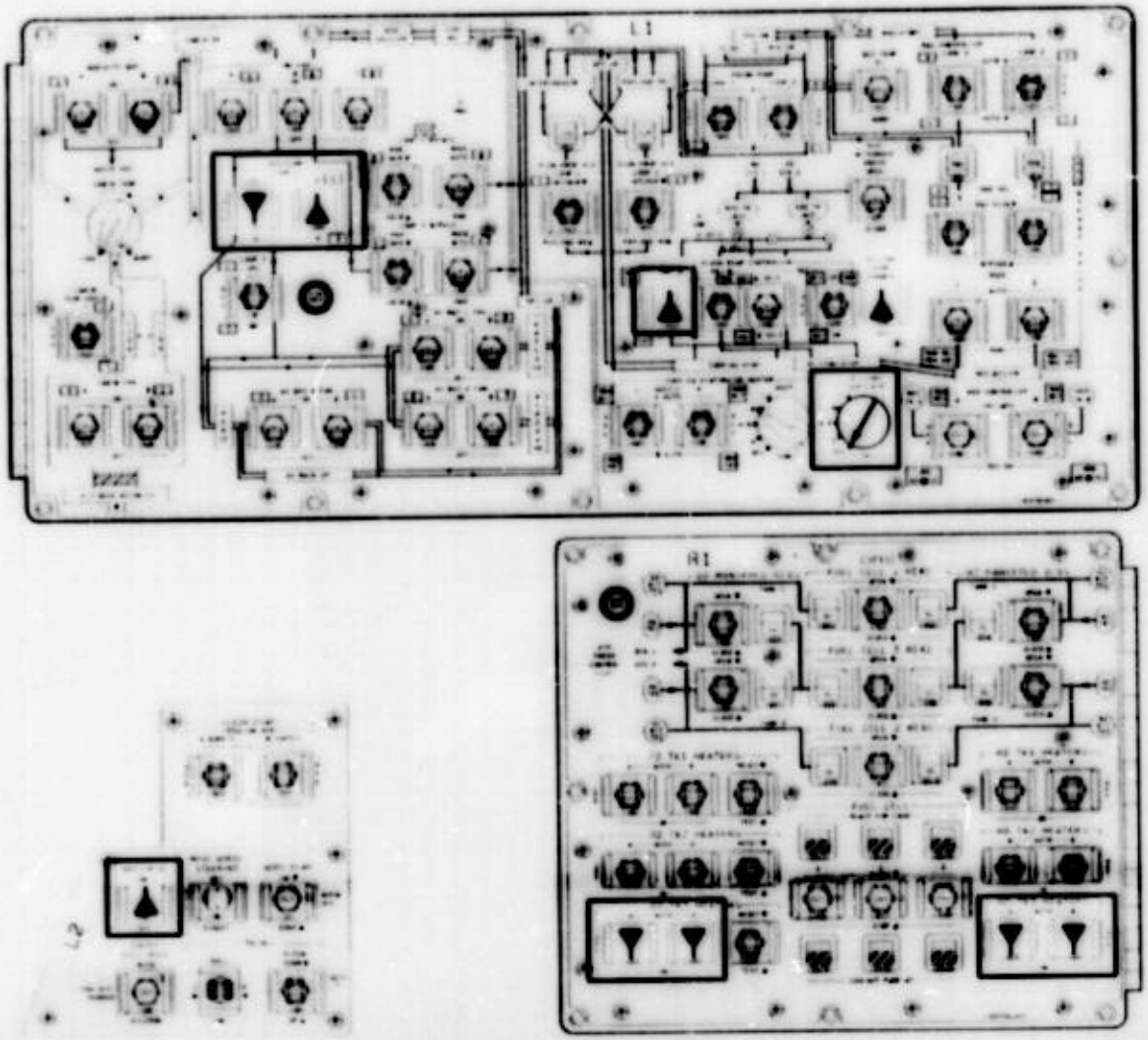
▼ - up
◆ - center
▲ - down

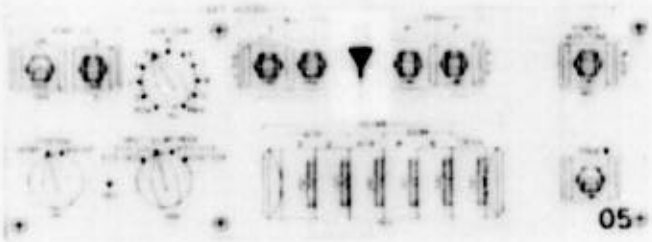
R - as reqd
● - cb close
○ - cb open

[ ] - indicates switch/display not cked during ON-ORBIT SWITCH CONFIGURATION

[ ] - indicates switch configured during ON-ORBIT SWITCH CONFIGURATION


F6
F8


L1
R1
L2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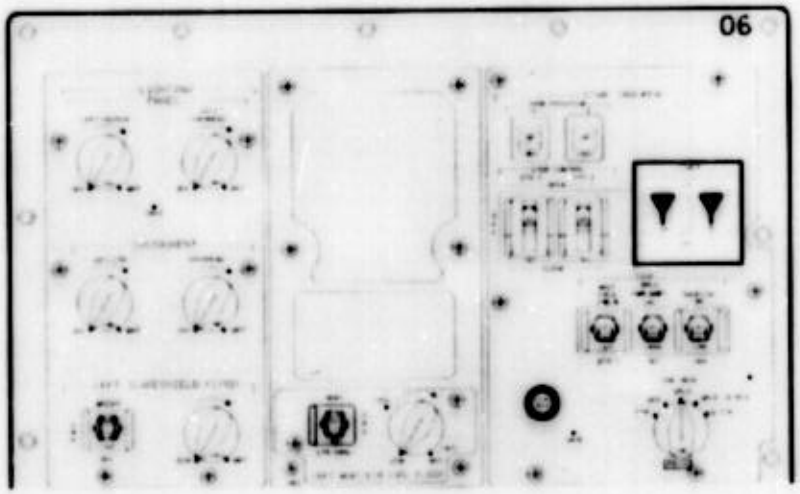
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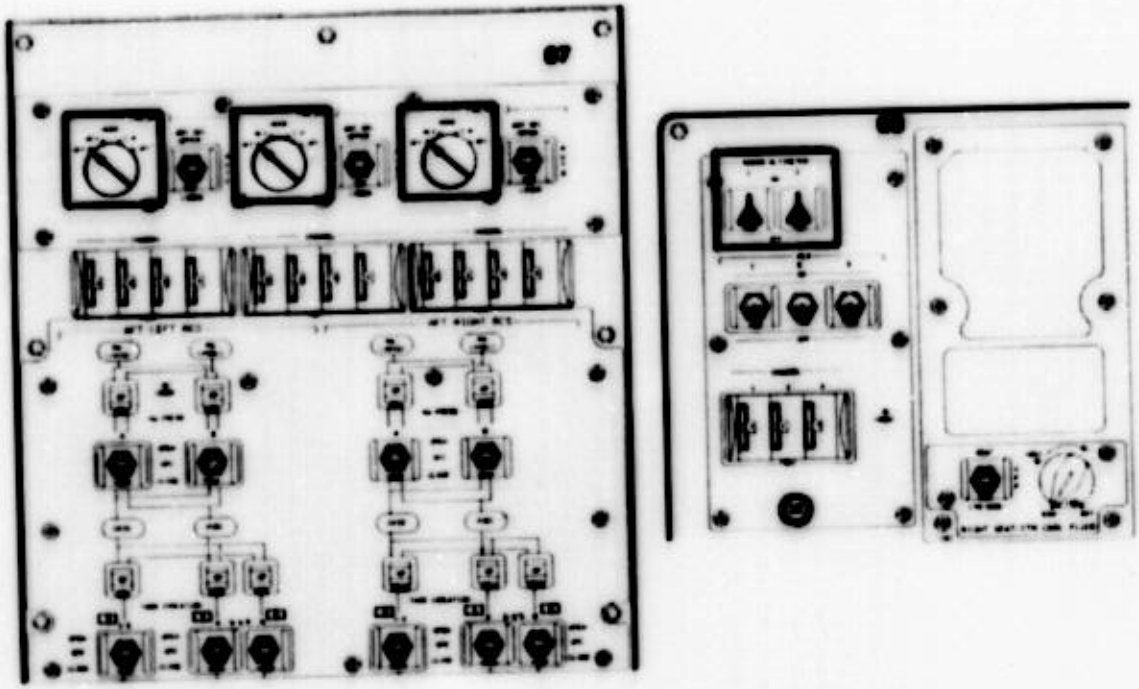
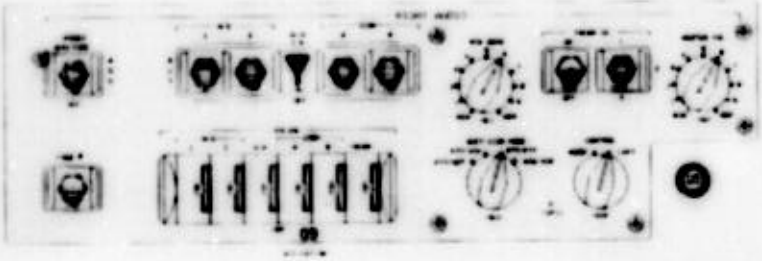
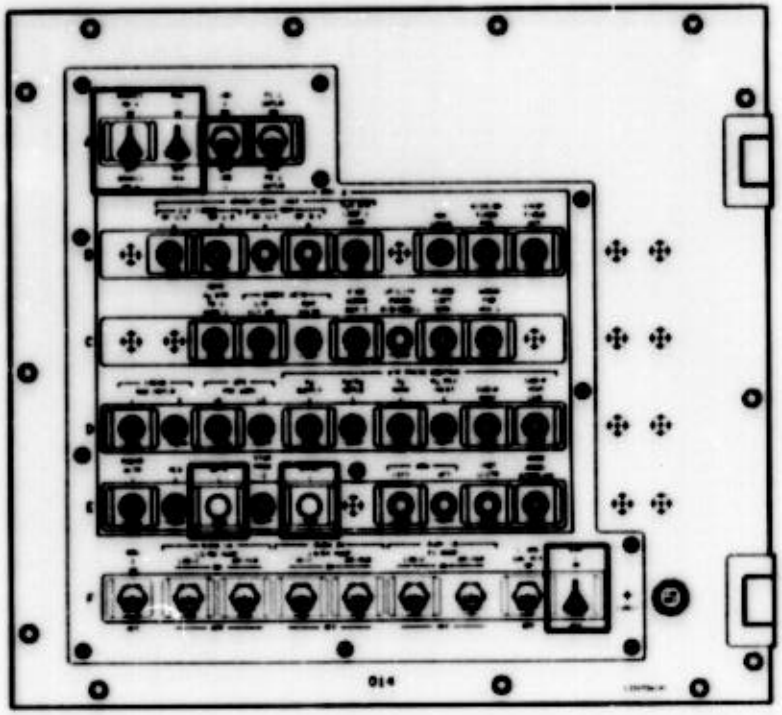
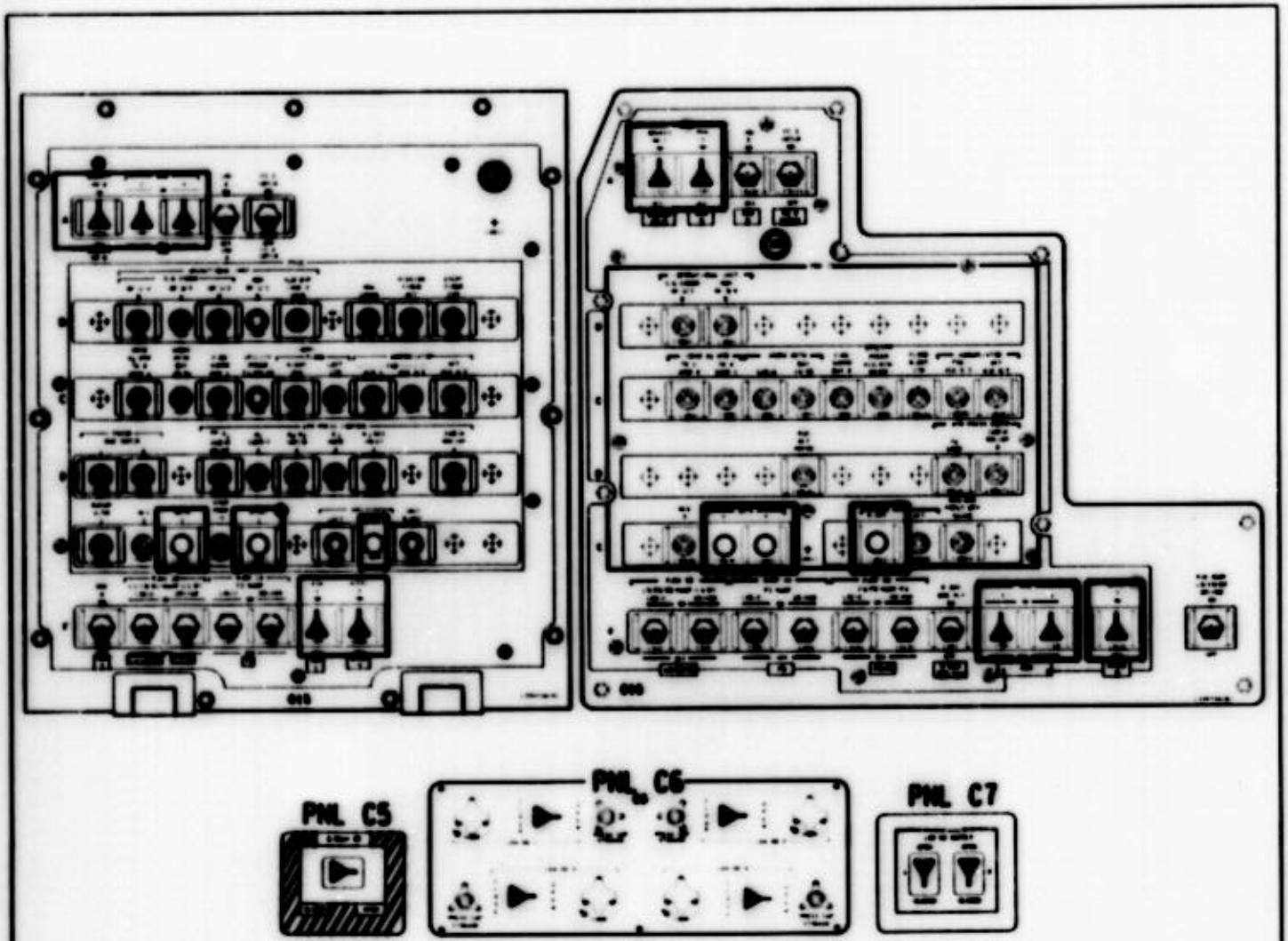
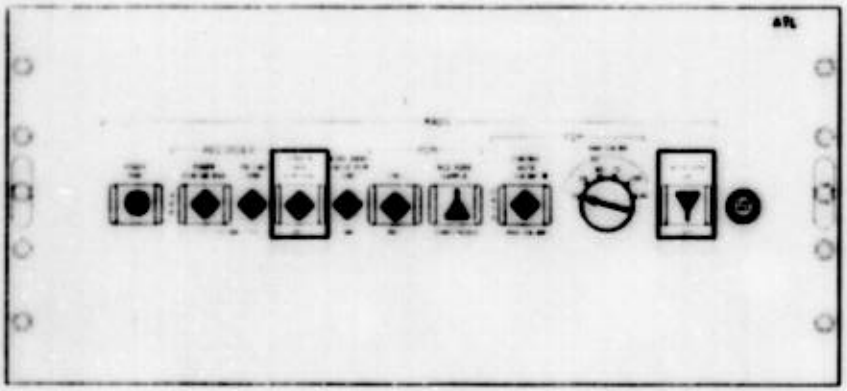
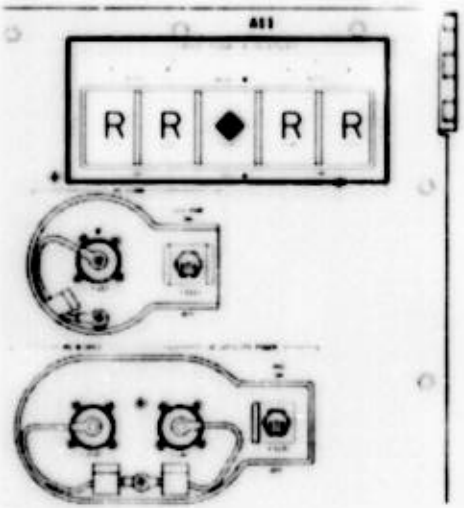


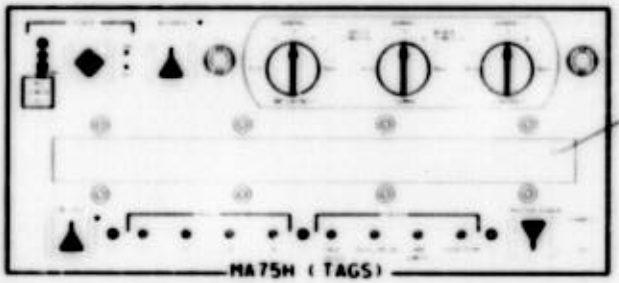


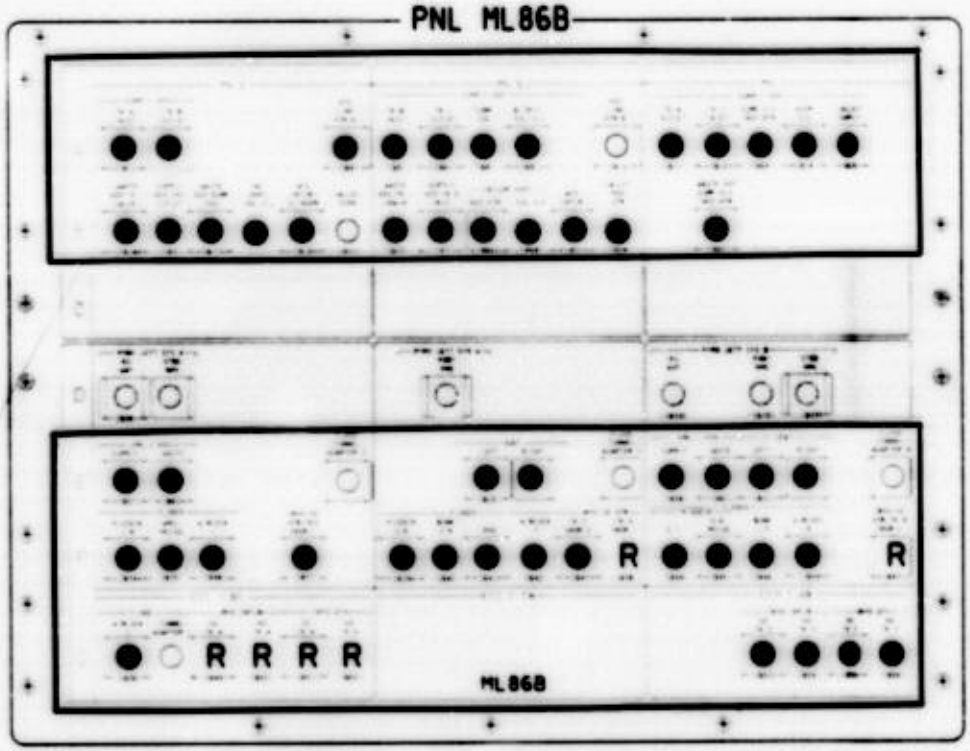


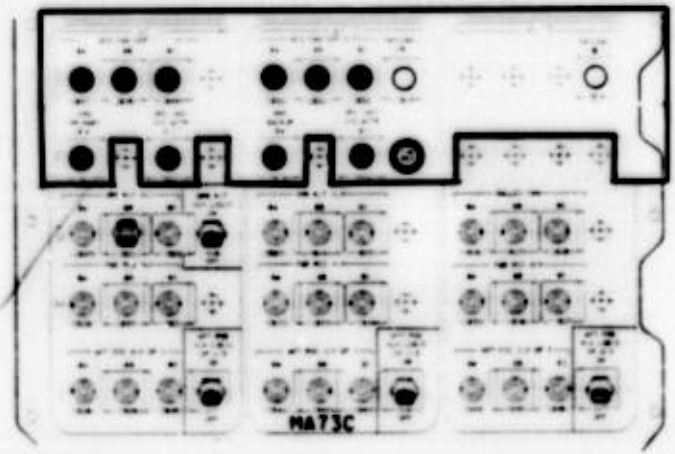

PNL C5
PNL C6
PNL C7




R R R R


MA75H (TAGS)


PNL ML86B
R
R
R
R
R
R
ML86B


MA73C

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ATO POST INSERTION PROCEDURES

ATO POST INSERTION PROCEDURES

Because of a -22 min late OMS 2 burn, the nominal Post Insertion activities begin -22 min late. All activities should be performed in the nominal sequence

MET	Changes to the Nominal Post Insertion
01:55	MCC & CREW GO/NO GO FOR ORBIT OPS may occur at the latest time of 02:15 MET