

# Post Insertion Checklist

**Mission Operations Directorate  
Flight Design and Dynamics Division  
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National Aeronautics and  
Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas



## POST INSERTION PROCEDURES

## **OPS 2 CONFIG**

### CRT DISPLAYS SETUP

CRT1: GNC OPS 106 PRO (OMS2 MNVR COAST)  
CRT2: GNC OPS 106 PRO (OMS2 MNVR COAST)  
CRT3: BFS, GNC SYS SUMM 2

### TRANSITION TO GNC OPS 2

CRT1 GNC OPS201 PRO (UNIV PTG

### RECONFIG MEDs

C2	IDP/CRT 3 PWR	– OFF
R11L	√IDP/CRT 4 PWR	– ON
F6,F7,F8	Power off MDUs as desired	

### RECONFIG GPCs

O6	GPC MODE 5	– HALT
	OUTPUT 5	– NORM

00:55

PLDB BUS ACTIVATION

R1	PL CAB	– MNA
	PRI MNC	– ON
	AUX	– ON
	AFT MNB	– ON
O6	GPC MODE 5	– SBY

TURN OFF BFC LT

C3	BFC CRT DISP	– ON
CRT3	BFS, MSG	– RESET
C3	BFC CRT DISP	– OFF

01:00

CONFIG FOR PLDB OPENING ATT (-ZLV –XVV)

CRT1	√TGT ID	+2
	BODY VECT	+3
	√P	+90
	√Y	+0
	OM	+0
CRT1	DAP: A5/AUTO/ALT	
	GNC SPEC 20 PRO (DAP CONFIG)	
	ROT RATE	– 0.2 (ITEM 10)
	ATT DB	– 5.0 (ITEM 11)

## GNC OPS 201 PRO (UNIV PTG)

Initiate TRK

ITEM 19 – EXEC (\*)

### MANUAL PLBD OPENING PROCEDURE

CRT4	SM OPS 202 PRO (PL BAY DOORS)	
	AC PWR ON	– ITEM 1 EXEC
	AUTO MODE ON	– ITEM 3 EXEC
R13L	√PL BAY DR	– STOP
	PL BAY DR SYS (two)	– ENA
	PL BAY DR	– OP
	When PL BAY DR tb	– OP
	PL BAY DR	– STOP
	PL BAY DR SYS (two)	– DSBL
CRT4	AC PWR OFF	– ITEM 2 EXEC

### CONFIG FOR PLBD OPERATIONS

Set up lights

A6U	√ANNUN BUS SEL	– MNC
A7U	PL BAY FLOOD AFT (two)	– OFF
	PL BAY FLOOD MID (two)	– ON
	PL BAY FLOOD FWD (two)	– ON
	PL BAY FLOOD FWD BHD	– N/A

## KU OPS

01:35

### KU-BD ANT DEPLOY

A1U	√KU BD PWR	– OFF
	CNTL	– PNL
R13L	√KU ANT DIRECT STO	– OFF
	PL BAY MECH PWR SYS 1,2 (two)	– ON
	KU ANT	– DPY
	When KU ANT tb – DPY (~23 to 46 sec)	
	KU ANT	– GND
	PL BAY MECH PWR SYS 1,2 (two)	– OFF

### KU-BD ACTIVATION

A1U	√SLEW RATE	– SLOW
	√KU BD SCAN WARN tb	– bp
	√KU BD TRACK tb	– bp
	√KU BD SEARCH tb	– bp
	√KU BD Sel	– MAN SLEW
	√RDR OUTPUT	– HI
	√KU BD MODE	– RDR PASSIVE
	KU BD PWR	– ON
	√CNTL	– PNL

A2	DIGI DIS SEL	– EL/AZ
	√R/EL ind:	+000.0
	√RR/AZM ind:	+000.0
	DIGI DIS SEL	– R/R
A1U	KU BD MODE	– COMM
	KUBD sel	– GPC DESIG
	CNTL	– CMD

## KU-BD ANT STOW

R13L	√PL BAY MECH PWR SYS 1,2 (two)	– OFF
A1U	√CNTL	– CMD
	√RADAR OUTPUT	– LOW
	KU BD PWR	– ON
	KUBD MODE	– RDR PASSIVE
	CNTL	– PNL
	KU BD sel	– MAN SLEW
A2	√DIGI DIS SEL	– EL/AZ
A1U	SLEW RATE	– as reqd
A2	R/EL ind:	-27.0 ( $\pm 1^\circ$ )
A1U	SLEW AZM	– as reqd
A2	RR/AZM ind:	-123.0 ( $\pm 1^\circ$ )



## LOCK GIMBALS

DAP: VERN(FREE)

R13L	KU ANT	– STO
A2	√R/EL ind:	-29.0 (± 1°)
	√RR/AZM ind:	-125.0 (± 1°)
	00:00 Start Event Timer	

A2 Monitor KU ANT gimbal angles for 50 sec  
(gimbal lock test), then:

DAP: as reqd

## STOW DEPLOYED ASSEMBLY

R13L	PL BAY MECH PWR SYS 1,2 (two)	– ON
	√KU ANT tb	– STO (~23 to 46

sec)

A1U	KU BD PWR	– OFF (Expect
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‘BCE BYP KU’ msg)

R13L	PL BAY MECH PWR SYS1,2	– OFF
	KU ANT	– GND

## **RAD OPS**

### RAD DEPLOY

#### 1.UNLATCH PANELS

R13L    √RAD LAT CNTL SYS A,B (two)                      – OFF  
          √RAD CNTL SYS A,B (two)                            – OFF  
          √RAD,LAT PORT,STBD tb (four)  
          match current RAD config  
          PL BAY MECH PWR SYS 1,2 (two)                    – ON  
          RAD LAT CNTL SYS A,B (two)                            – REL  
          (√Deploying RAD LAT tb(s)-bp, ~30 sec REL)  
          RAD LAT CNTL SYS A,B (two)                            – OFF  
          If deploying RAD LAT tb not REL in 30 sec:  
  
          RAD LAT CNTL SYS A,B (two)                            – OFF \*

#### 2. DEPLOY PANELS

RAD CNTL SYS A,B (two)                                      – DPY  
(√Deploying RAD tb(s)-bp, ~50 sec DPY)  
RAD CNTL SYS A,B (two)                                      – OFF

If deploying RAD tb(s) not bp after 10 sec and no motion,

or

If RAD panel(s) in transit and no motion,

or

If deploying RAD tb not DPY within 50 sec:

RAD CNTL SYS A,B (two) – OFF

PL BAY MECH PWR SYS 1,2 (two) – OFF

### RAD STOW

#### 1.STOW PANELS

R13L √RAD LAT CNTL SYS A,B (two) – OFF  
√CNTL SYS A,B (two) – OFF  
√RAD,LAT PORT,STBD tb (four) match current RAD  
config  
PL BAY MECH PWR SYS 1,2 (two) – ON  
RAD CNTL SYS A,B (two) – STO  
√Stowing RAD tb-bp, ~50 sec STO  
RAD CNTL SYS A,B (two) – OFF

If stowing RAD tb(s) not bp after 10 sec and no motion,  
or  
If RAD panel(s) in transit and no motion,  
or  
If stowing RAD tb(s) not STO within 100 sec and no  
motion:

RAD CNTL SYS A,B (two) – OFF

## 2. LATCH PANELS

R13L RAD LAT CNTL SYS A,B (two) – LAT

√Stowing RAD LAT tb-bp, ~30 sec, LAT

RAD LAT CNTL SYS A,B (two) – OFF

If stowing RAD LAT tb not LAT in 60 sec:

RAD LAT CNTL SYS A,B (two) – OFF

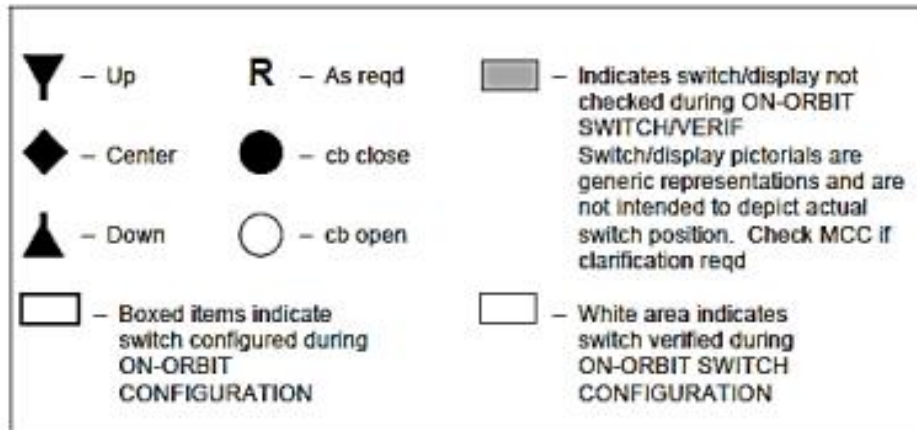
PL BAY MECH PWR SYS 1,2 (two) – OFF

## 01:55 STAR TRKR ACTIVATION/DOOR OPEN

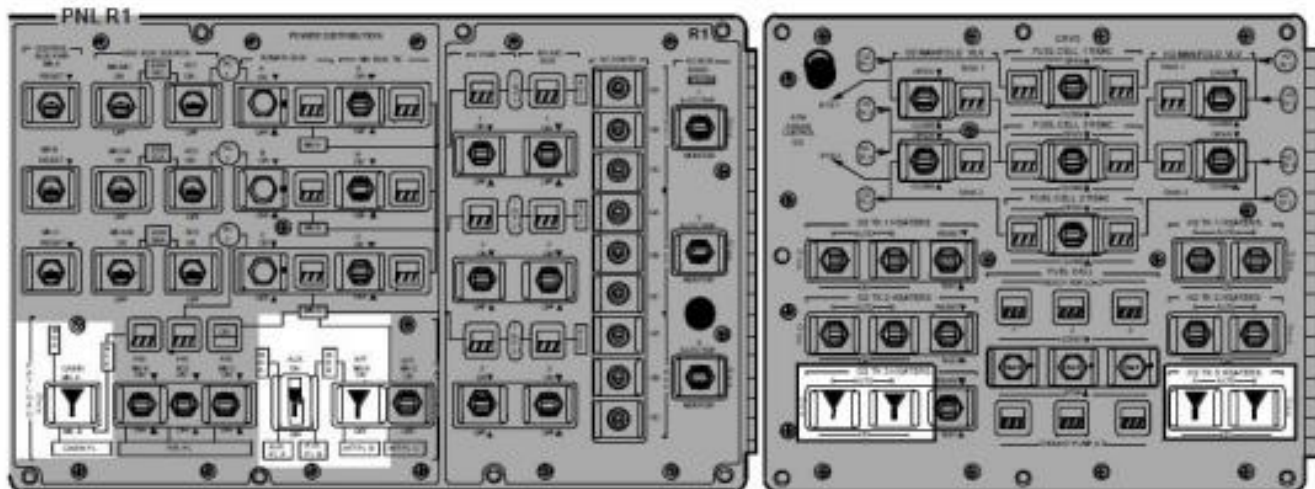
O6 S TRK DR CNTL SYS (two) – OP

S TRK PWR (two) – ON

# ON ORBIT SWITCH LIST



## ALL VEH



800716-101-PNL2



<b>POST INSERTION CHECKLIST</b>
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<b>STS ALL</b>
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BACK COVER