FLIGHT DATA FILE

Prelaunch Cockpit Checklist

37-2431-D FireArc

Flight Design and Dynamics Division Unofficial 13 July, 3300



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VEHICLE OPERATIONS DIRECTORATE

PRELAUNCH COCKPIT CHECKLIST 37-2431-D

DRAFT 13 July, 3300
PREPARED BY:
John Dee Book Manager
APPROVED BY:
Michael Juliano Project Director

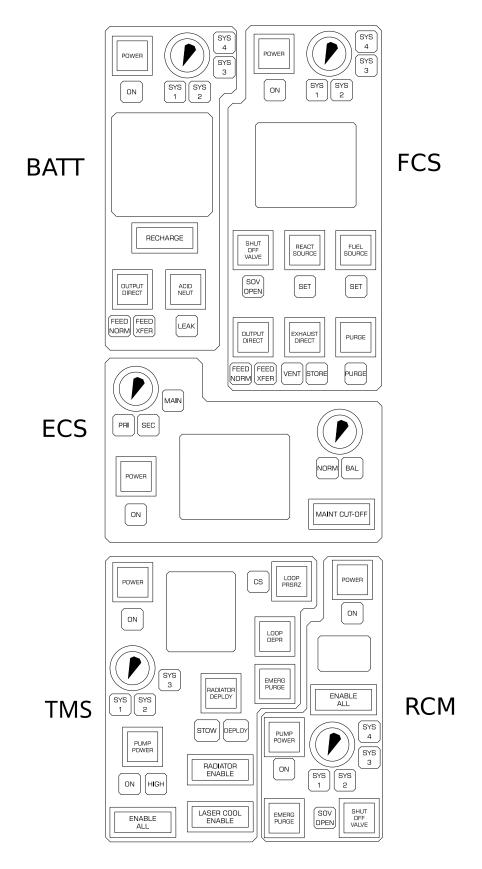


Figure 0.1: Left-side instrument panel

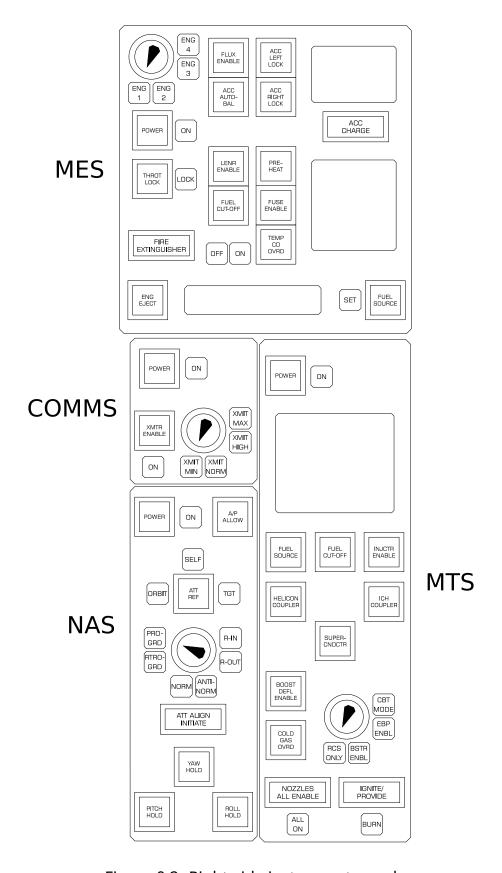


Figure 0.2: Right-side instrument panel

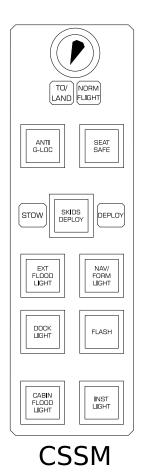
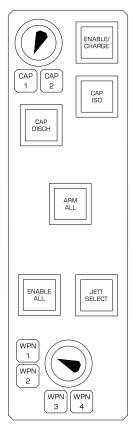


Figure 0.3: CSSM panel (left side)



WPN

Figure 0.4: Weapons panel (right side)

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PRESTART PROCEDURES

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SEAT SAFING

■ CSSM SEAT SAFE — ON

LIGHTING

■ CSSM CABIN FLOOD LIGHT — OFF

■ CSSM INST LIGHT — ON

PRIMARY BUS POWER

♦ BATT SELECT set to SYS1

■ BATT POWER — ON

♦ ECS BUS SELECT set to PRI

■ ECS POWER — ON

...Wait 4 sec for fault alarm, then...

■ HMD FAULT ACK — PRESS

BATTERY CHARGE

■ ECS MAINT CUT-OFF — OFF

■ BATT RECHARGE — ON

♦ BATT SELECT set to SYS2

■ BATT POWER — ON

■ BATT RECHARGE — ON

SECONDARY BUS POWER

♦ ECS BUS SELECT set to SEC

■ ECS POWER — ON

♦ ECS DISTRIBUTION MODE set to BAL

FUEL CELL CHARGE

♦ FCS CELL SELECT set to SYS1

■ FCS POWER — ON

...wait for CORE TEMP rise to start, then...

♦ FCS CELL SELECT set to SYS2

■ FCS POWER — ON

...wait for CORE TEMP rise to start

THERMAL MANAGEMENT

■ TMS LOOP ENABLE — ON
♦ TMS LOOP SELECT set to SYS1
■ TMS LOOP PRESSURIZE — ON
♦ TMS LOOP PUMP POWER set to ON
♦ TMS LOOP SELECT set to SYS2
■ TMS LOOP PRESSURIZE — ON
♦ TMS LOOP PUMP POWER set to ON

STC DEPARTURE CLEARANCE

■ COMMS SYSTEM ENABLE — ON

■ COMMS TRANSMITTER ENABLE — ON

Check in with STC

...wait for STC check in acknowledge, then...

Request departure clearance from STC

...wait for STC departure clearance

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DEPARTURE PROCEDURES

DEPARTURE PROCEDURES

ENGINE INITIALISE

♦ MES	ENGINE SELECT set to ENG1
■ MES	SYSTEM ENABLE — ON
■ MES	LENR ENABLE — ON
■ MES	CHAMBER PRE-HEATER — ON
■ RCM	SYSTEM ENABLE — ON
■ RCM	ENABLE ALL TANKS — ON
■ MES	FUEL SOURCE SELECT — ON
♦ FCS	CELL SELECT set to SYS1
■ FCS	FUEL SOURCE SELECT — ON
■ FCS	REACTANT SOURCE SELECT — ON
♦ FCS	CELL SELECT set to SYS2

■ FCS■ FCS■ FCSREACTANT SOURCE SELECT — ON

Request LENR initiation from STC

...wait for STC LENR initiation clearance

MAIN BUS INITIALISE

■ MES	LENR FUEL CUT-OFF — ON
■ MES	LENR FUSE ENABLE - ON
♦ ECS	BUS SELECT set to MAIN
■ ECS	POWER — ON
■ ECS	MAINT CUT-OFF — ON

MTS COLD GAS INITIALISE

■ MTS	SYSTEM ENABLE — ON
■ MTS	FUEL SOURCE SELECT — ON
■ MTS	FUEL CUT-OFF VALVE — ON
■ MTS	FUEL INJECTOR ENABLE — ON
■ MTS	NOZZLE ALL ENABLE — ON

NAVIGATION INITIALISE

■ NAS SYSTEM ENABLE — ON

SEAT SAFING

♦ CSSM FLIGHT MODE SELECT set to NORM FLIGHT

Announce to STC ready to depart