

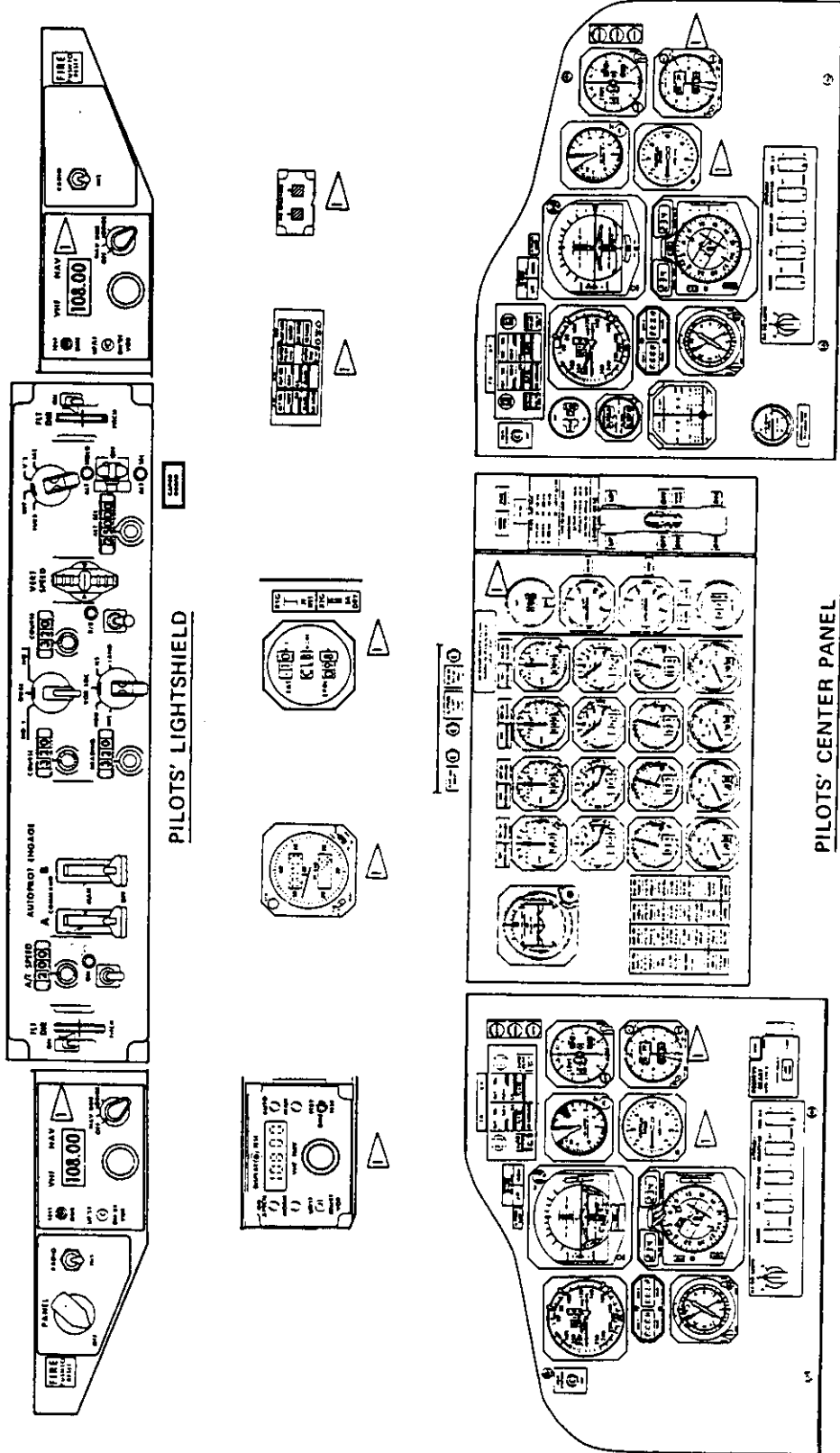
DOCKET NO.: SA-517
EXHIBIT NO. 9C

NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.

SYSTEMS GROUP CHAIRMAN'S FACTUAL REPORT
ATTACHMENT 2
COCKPIT PANEL LAYOUT DIAGRAMS

By: Gregory Phillips
(21 pages)

Attachment 2
Cockpit Panel Layout Diagrams



PILOTS' LIGHTSHIELD

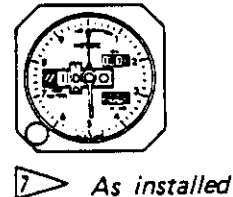
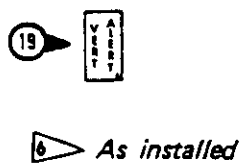
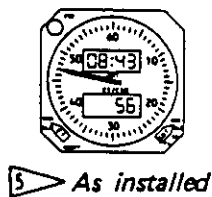
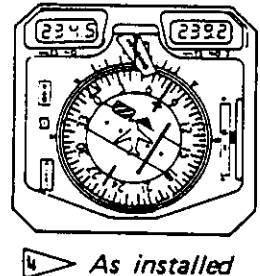
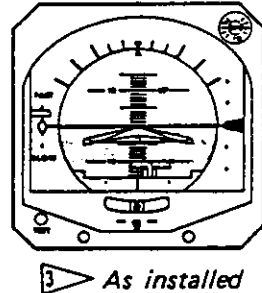
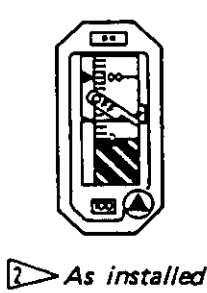
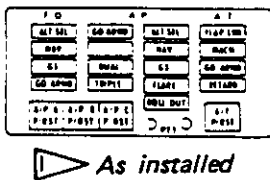
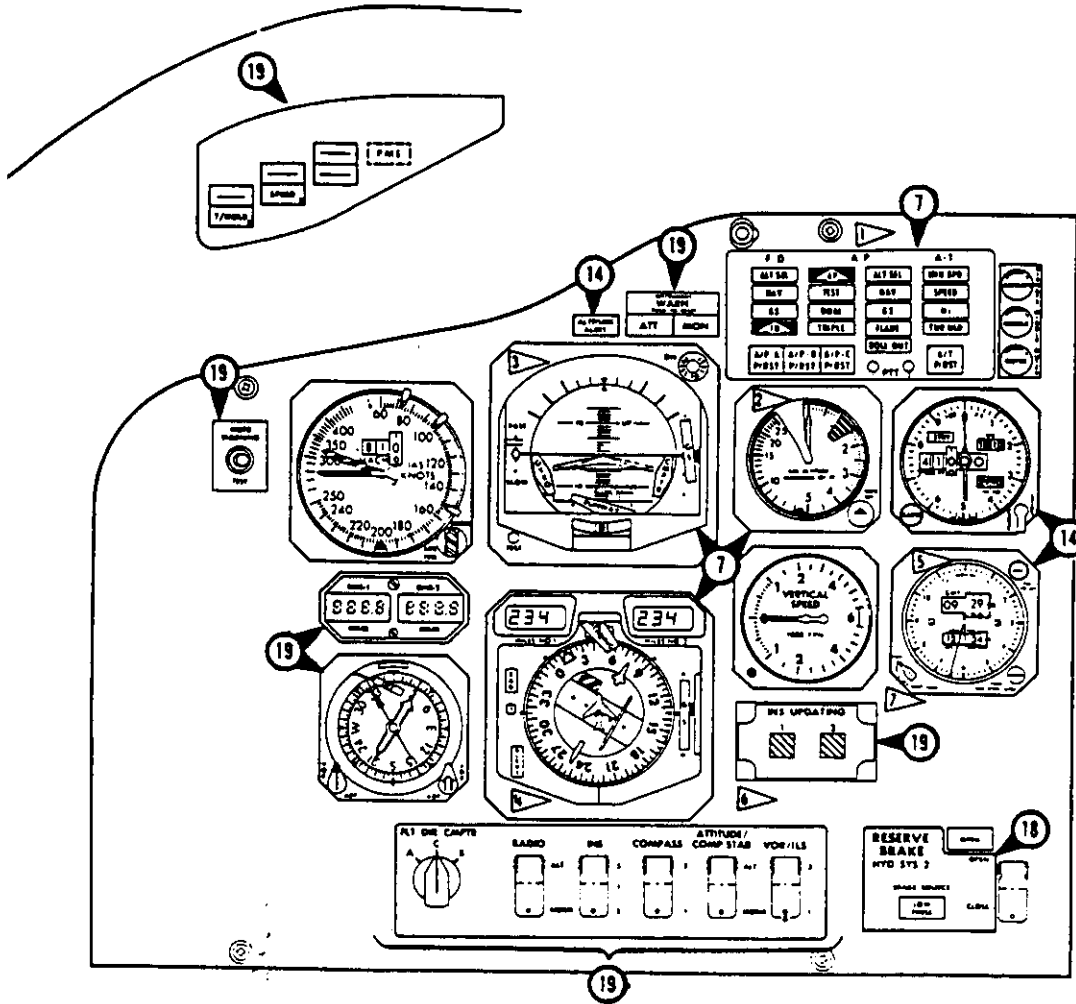
PILOTS' CENTER PANEL

FIRST OFFICER'S INSTRUMENT PANELS

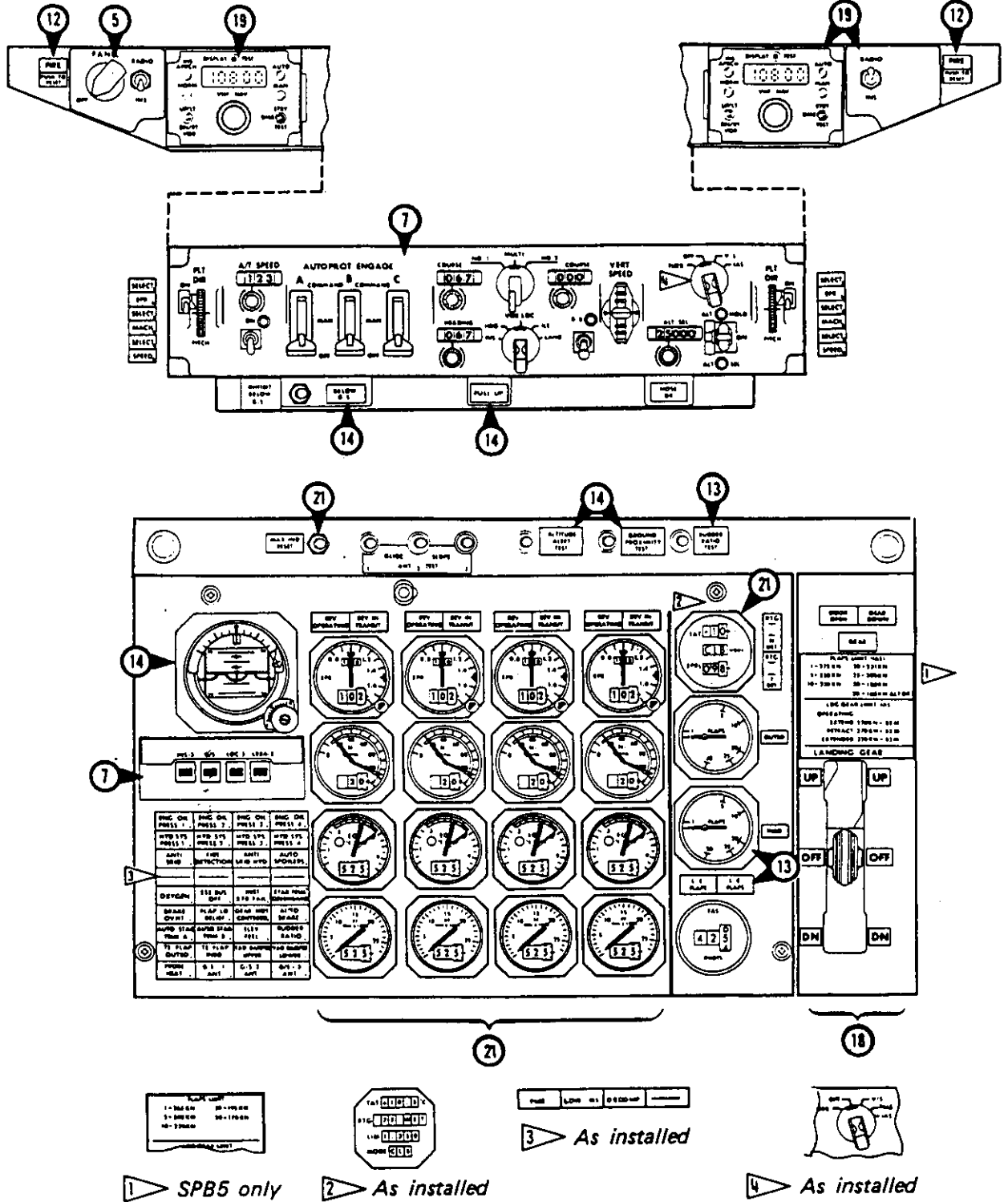
PILOT'S INSTRUMENT PANELS

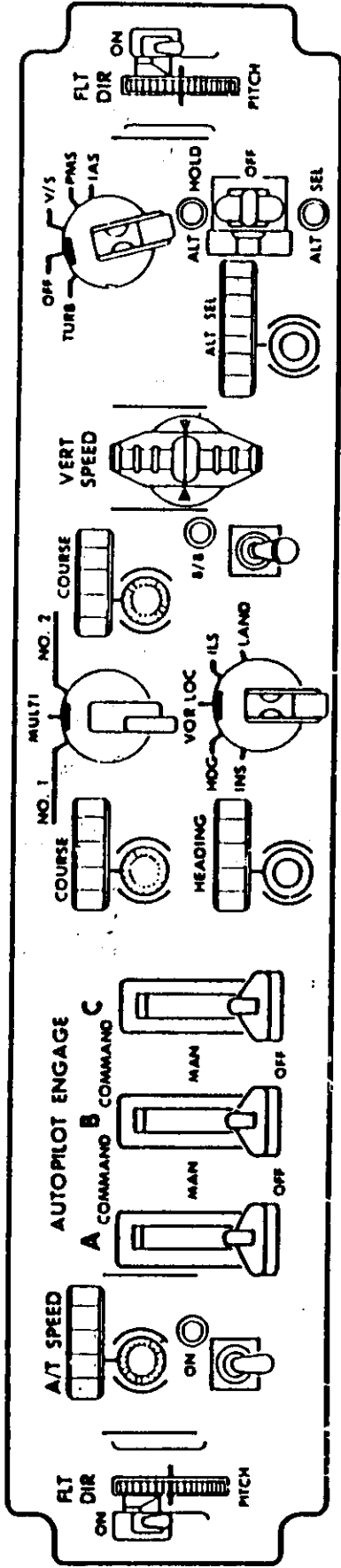
△ As installed

PILOTS' INSTRUMENT PANELS



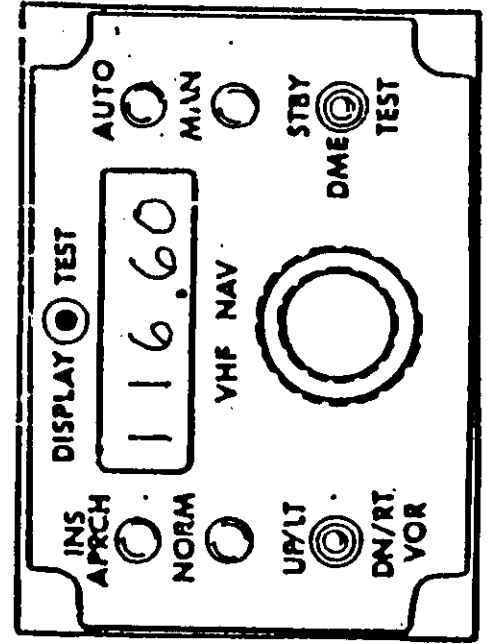
CAPTAIN'S INSTRUMENT PANEL
2B5F, SPB5, LATER 2B5B, 3B5





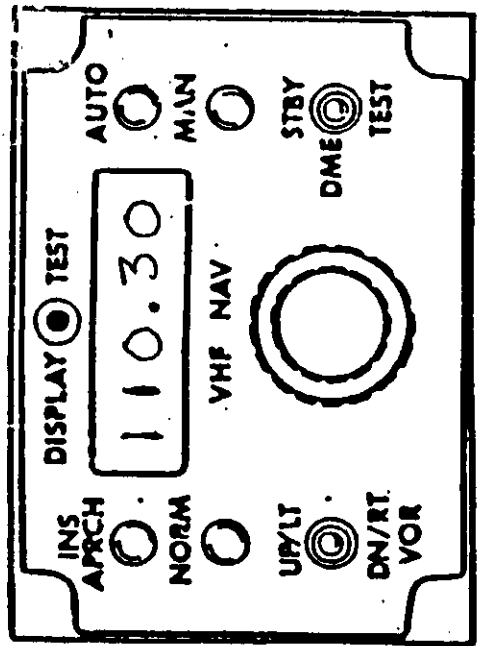
MODE SELECT PANEL

Fl 0 S40=26



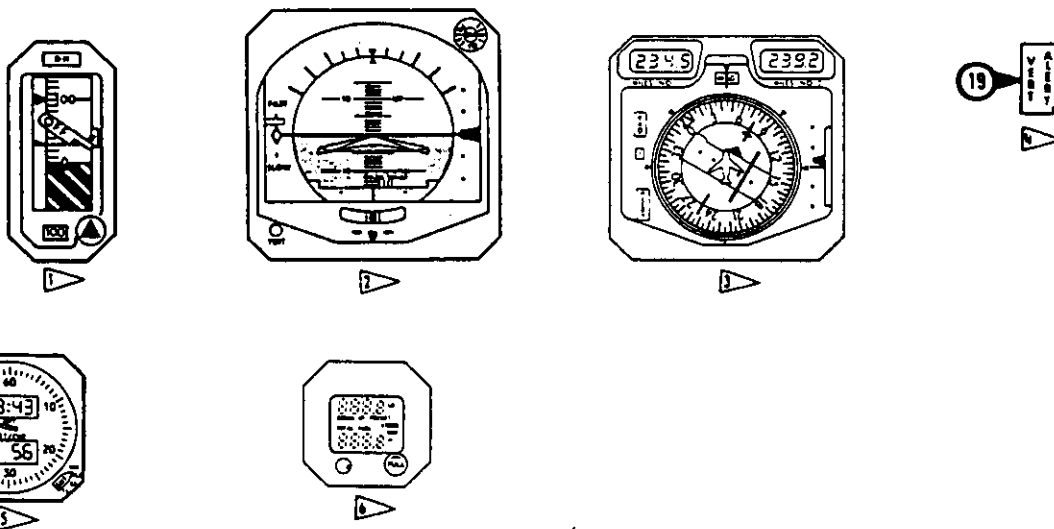
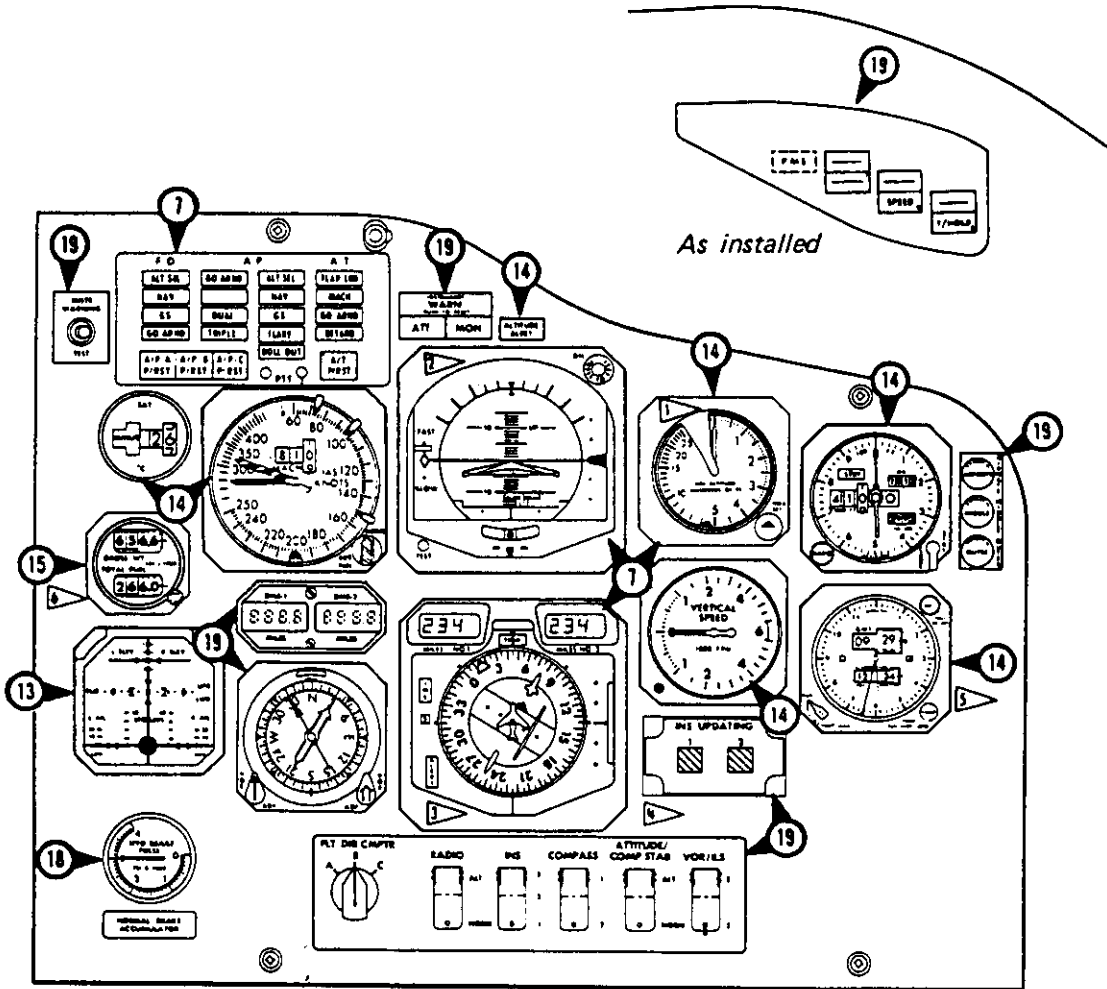
COMPARED:
 STOP COLLAR PIN,
 SHAFT FLAT,
 ROTOR CONTACTS
 MHZ & FRACTIONAL
 SWITCH SECTIONS

GART SD=17



SHAFTS WOULD NOT TURN

5



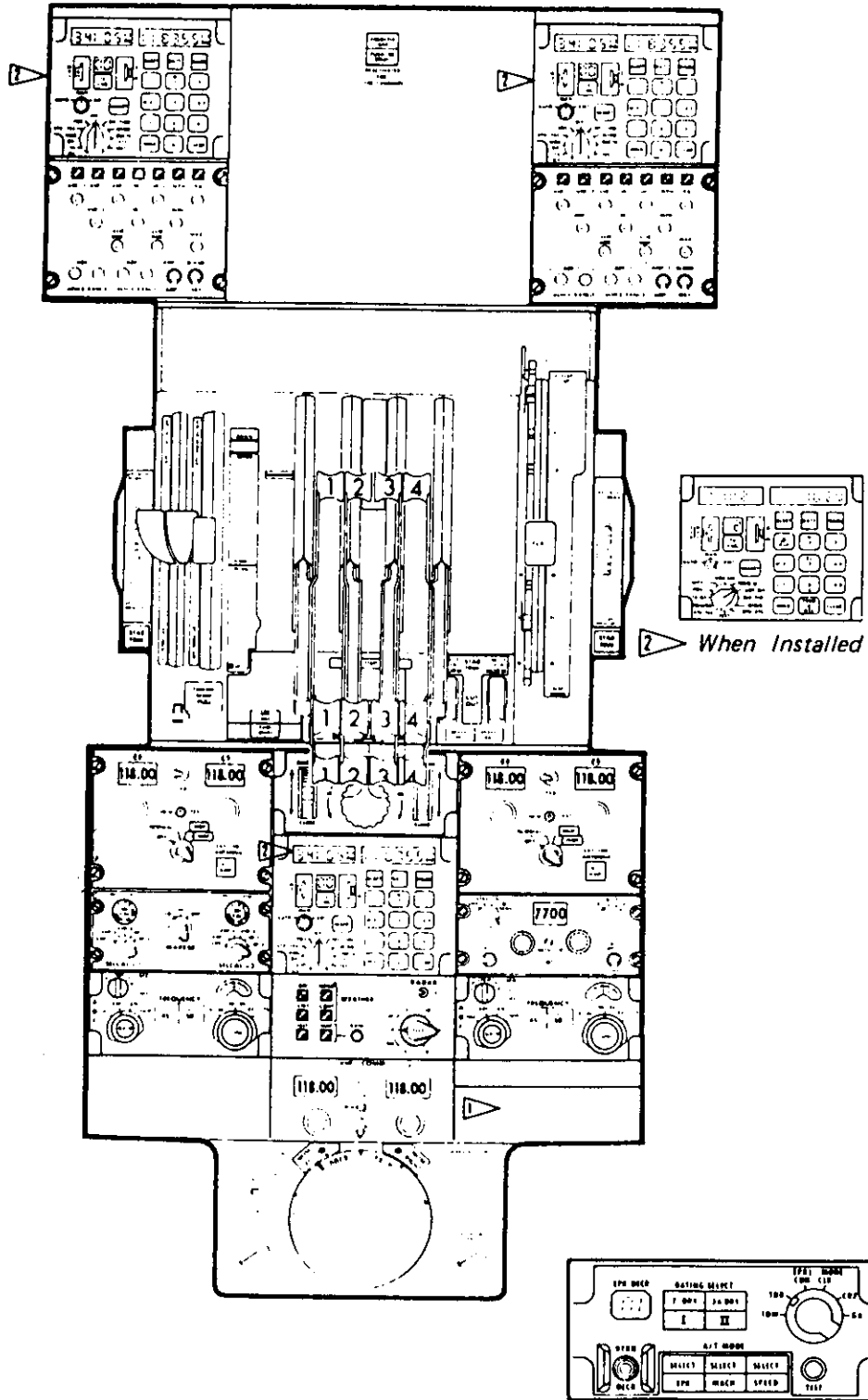
1 thru 6 As installed

FIRST OFFICER'S INSTRUMENT PANEL
2B5F, SPB5, LATER 2B5B, 3B5

BOEING 747

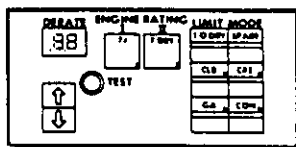
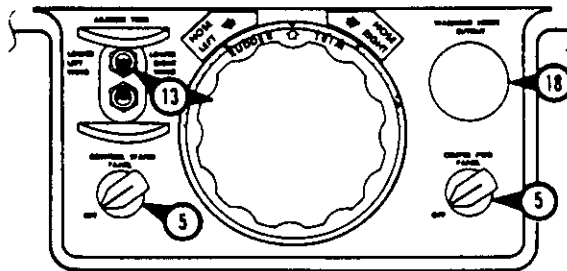
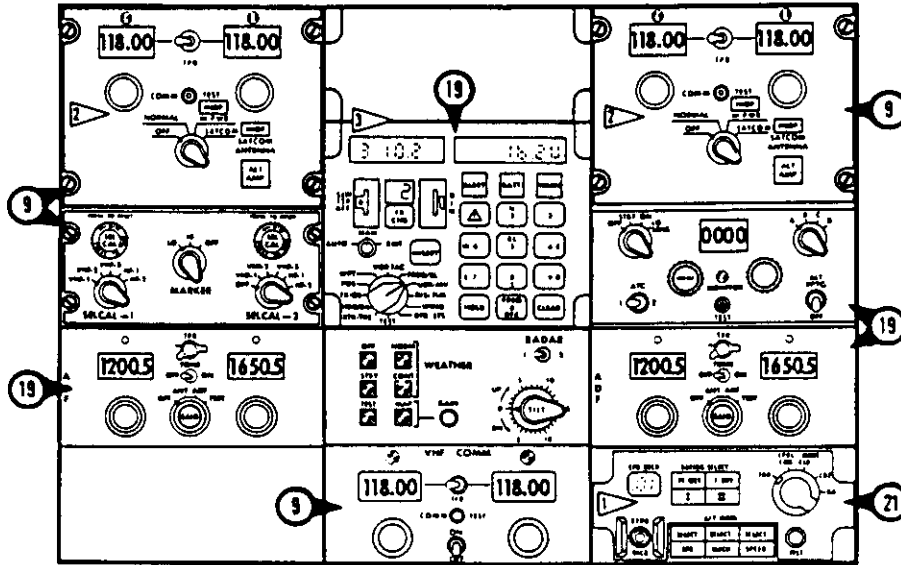
OPERATIONS MANUAL

**AIRPLANE GENERAL
 COCKPIT PANELS**

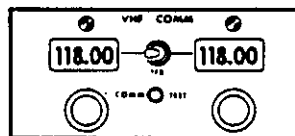


▷ Later Airplanes

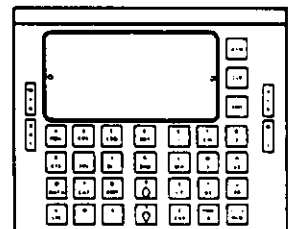
PILOTS' CONTROL STAND



1 ▶ As installed

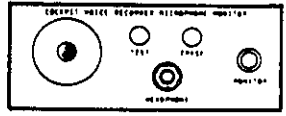
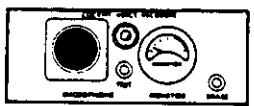
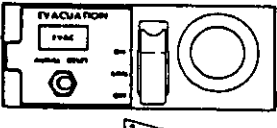
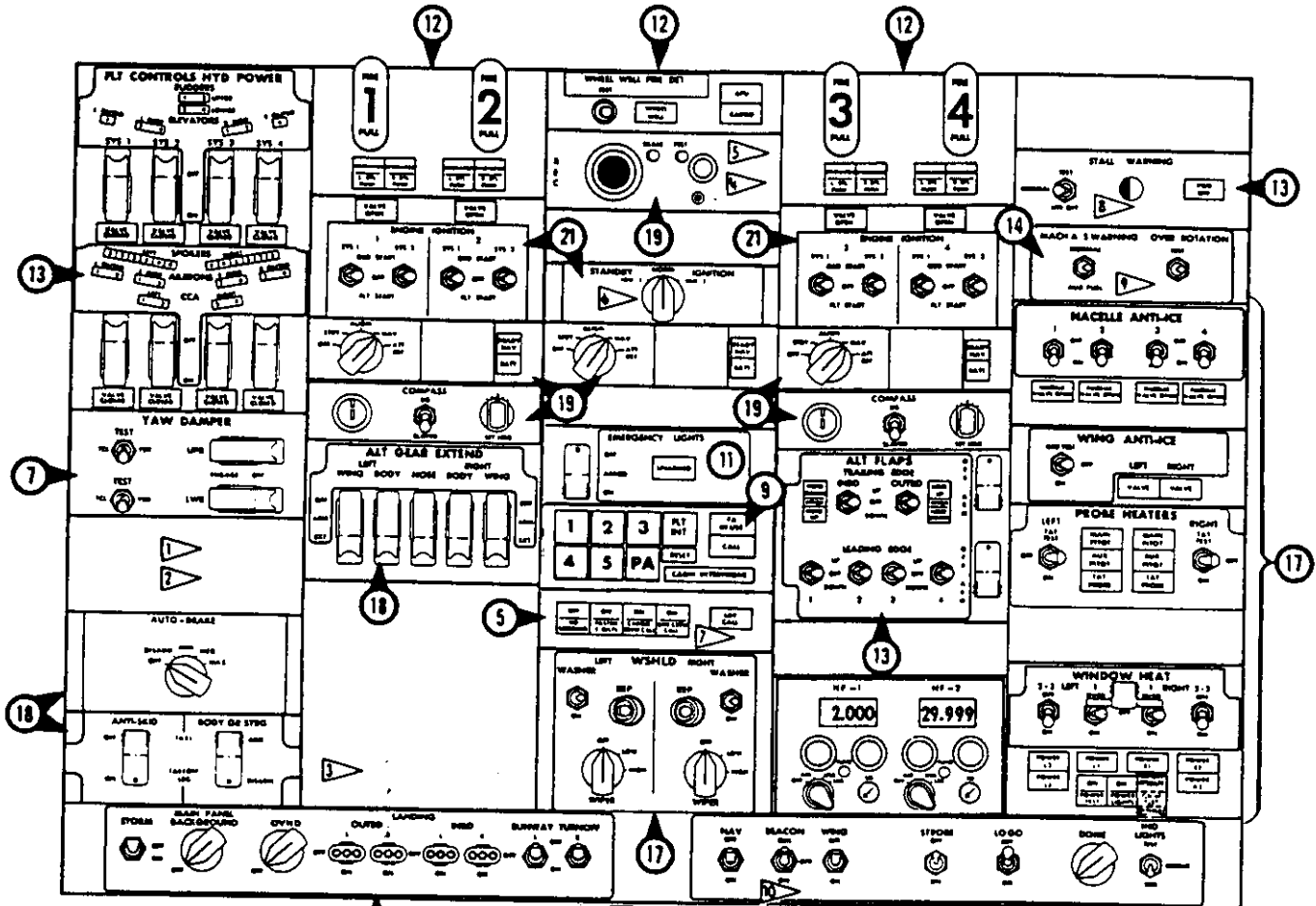


2 ▶ As installed



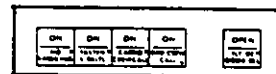
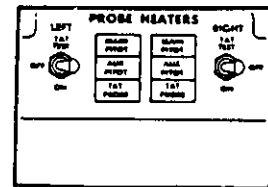
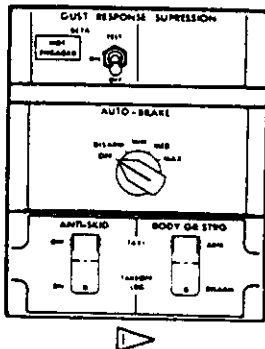
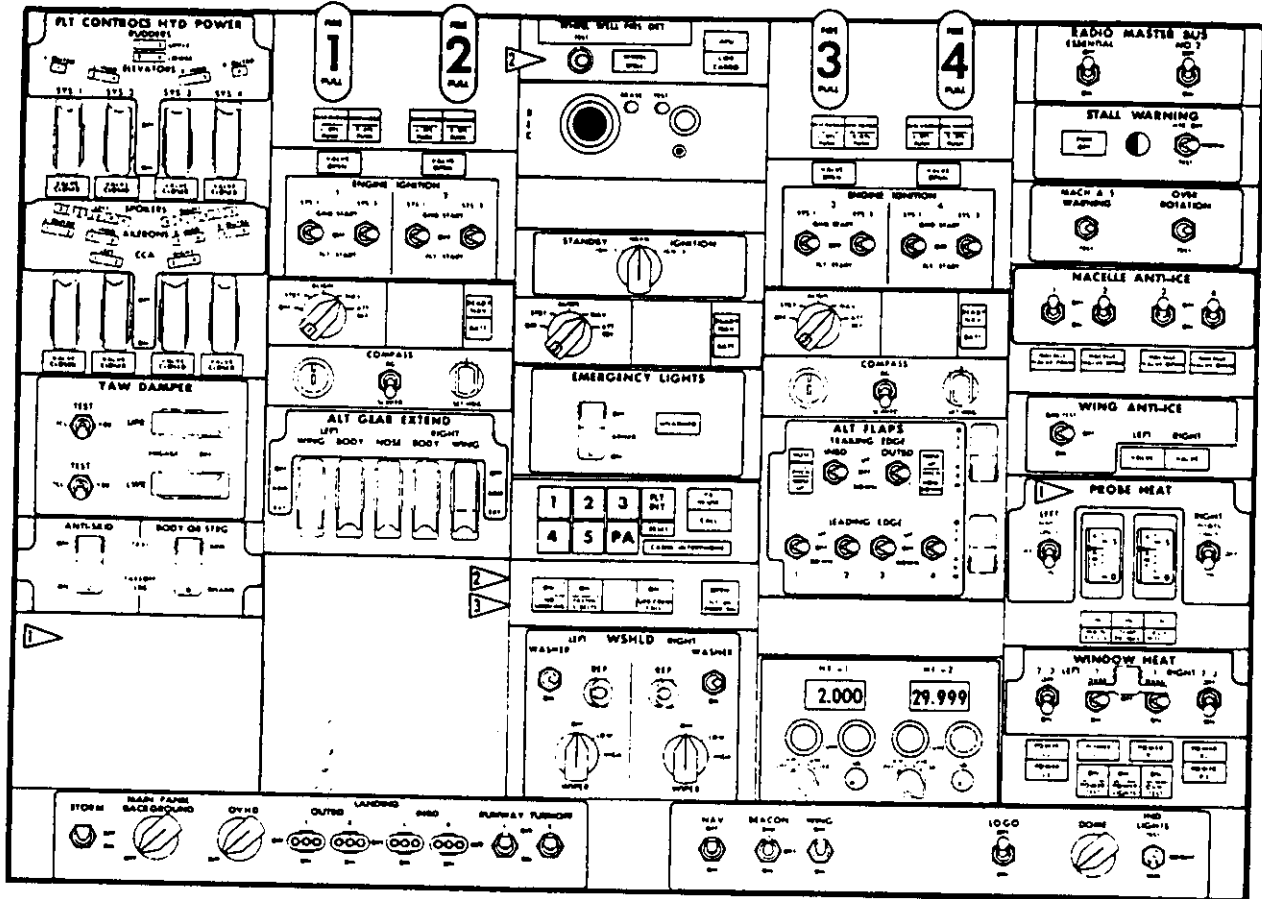
3 ▶ As installed

PILOTS' CONTROL STAND (LOWER HALF)
2B5F, SPB5, LATER 2B5B, 3B5



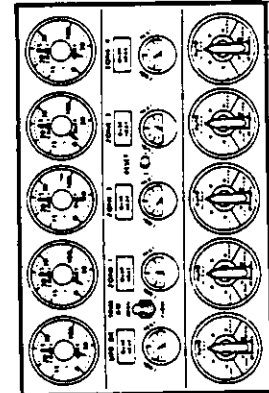
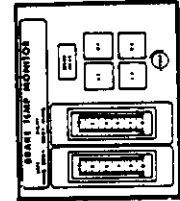
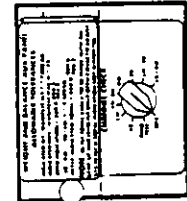
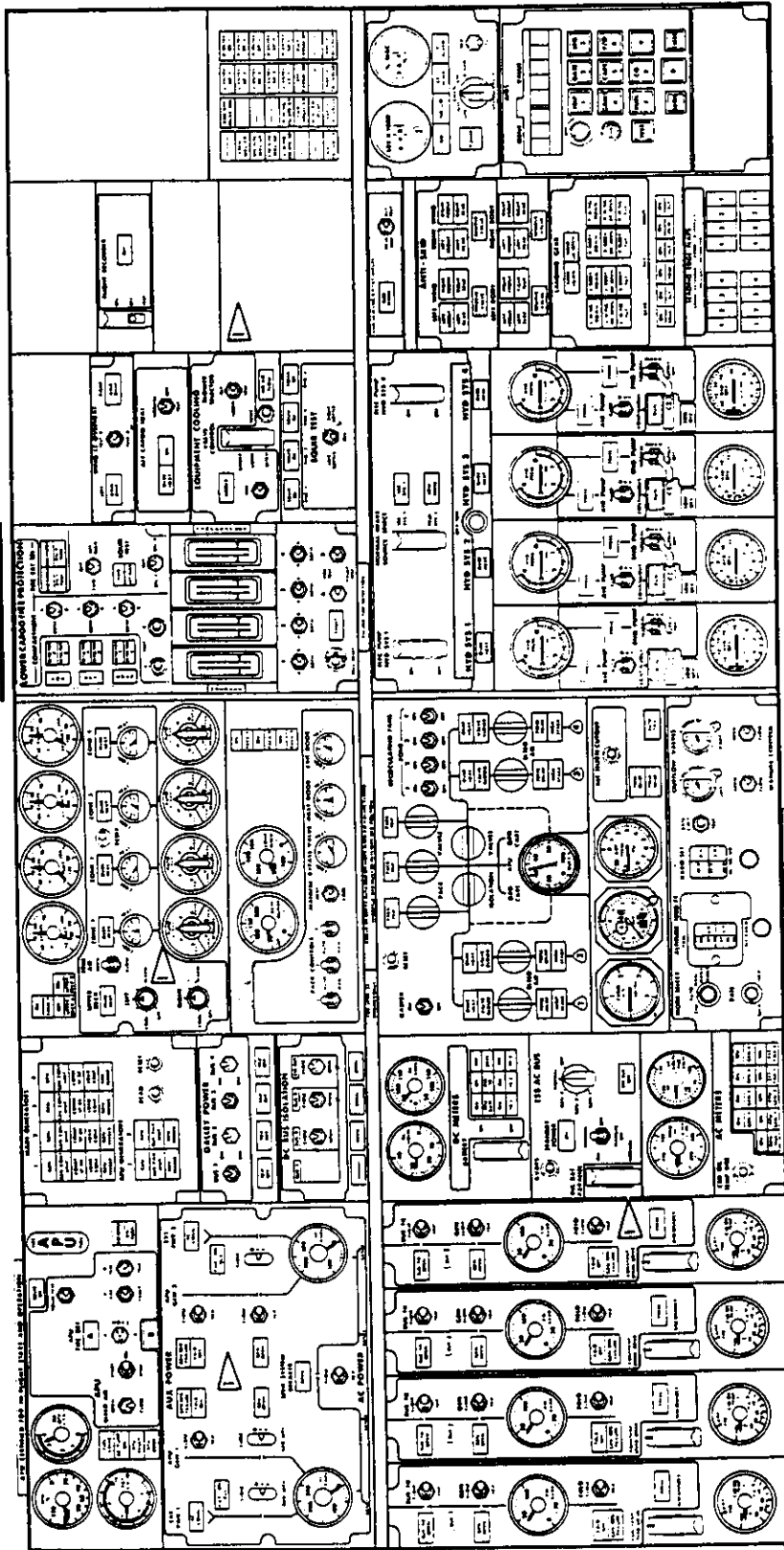
Thru As Installed

PILOTS' OVERHEAD PANEL
285F, SPB5, LATER 285B, 3B5



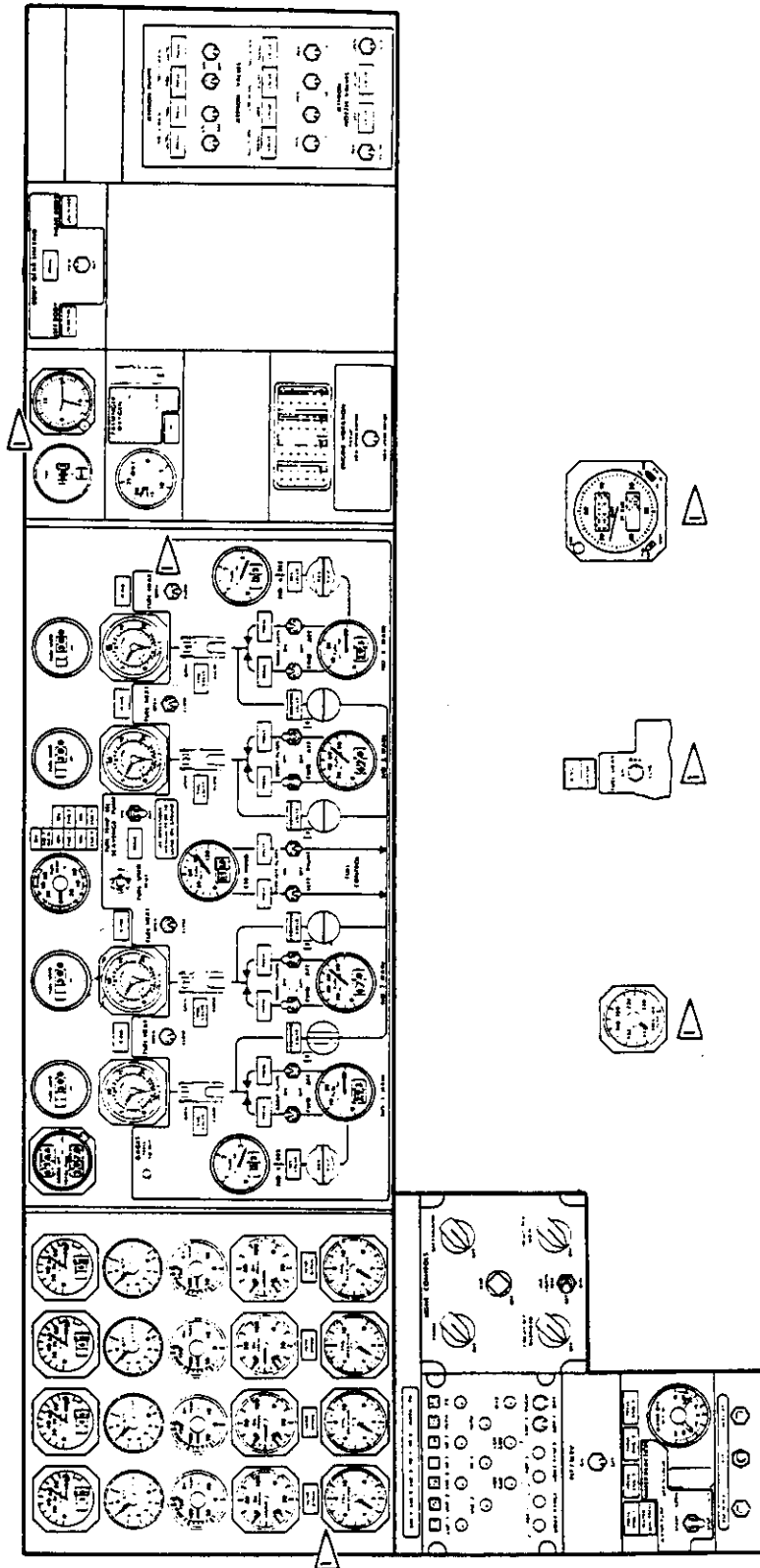
- 1 ▷ As installed
- 2 ▷ HL7454, HL7458
- 3 ▷ 3B5 Combi

PILOTS' OVERHEAD PANEL

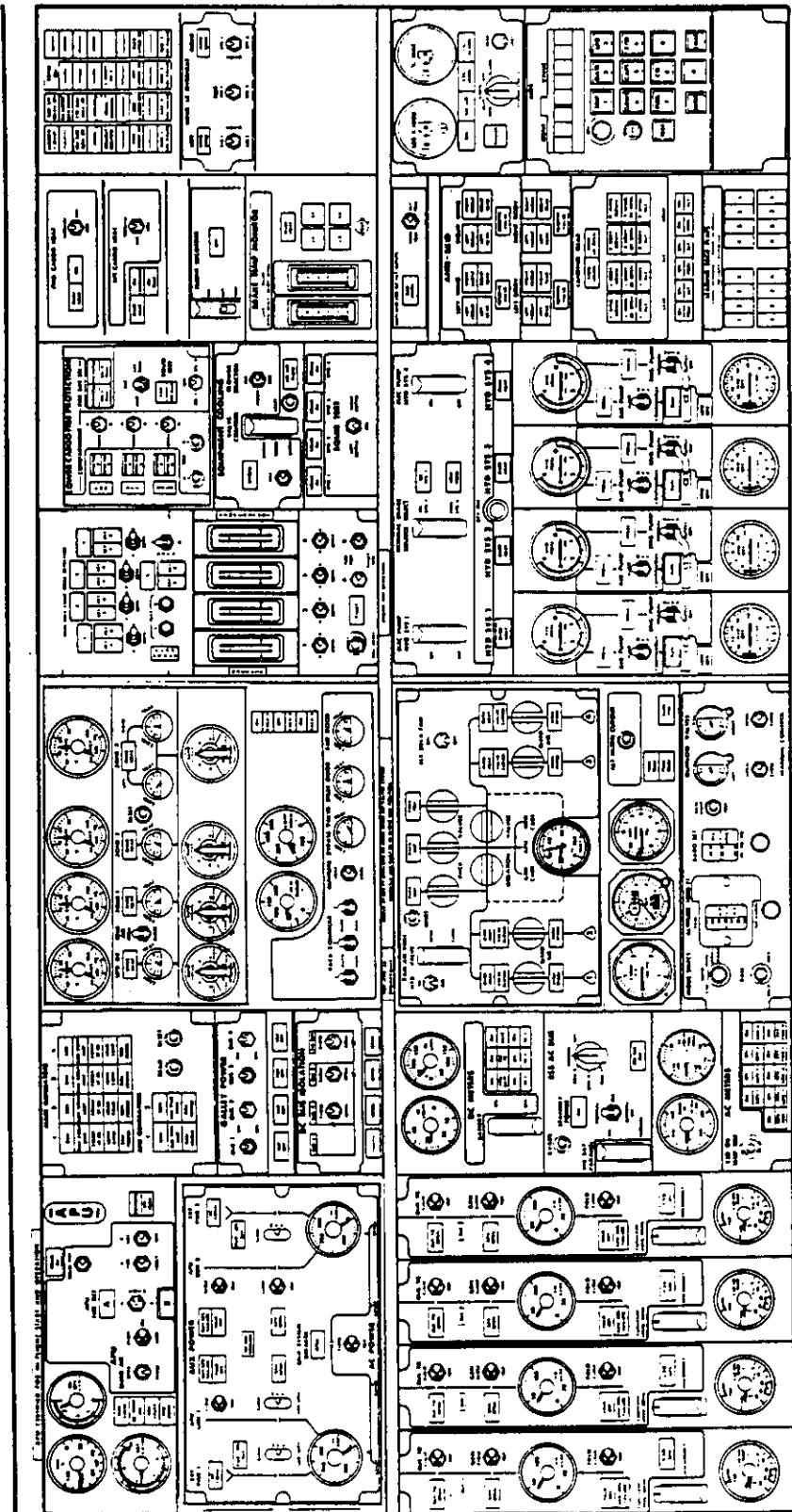


Later Airplanes

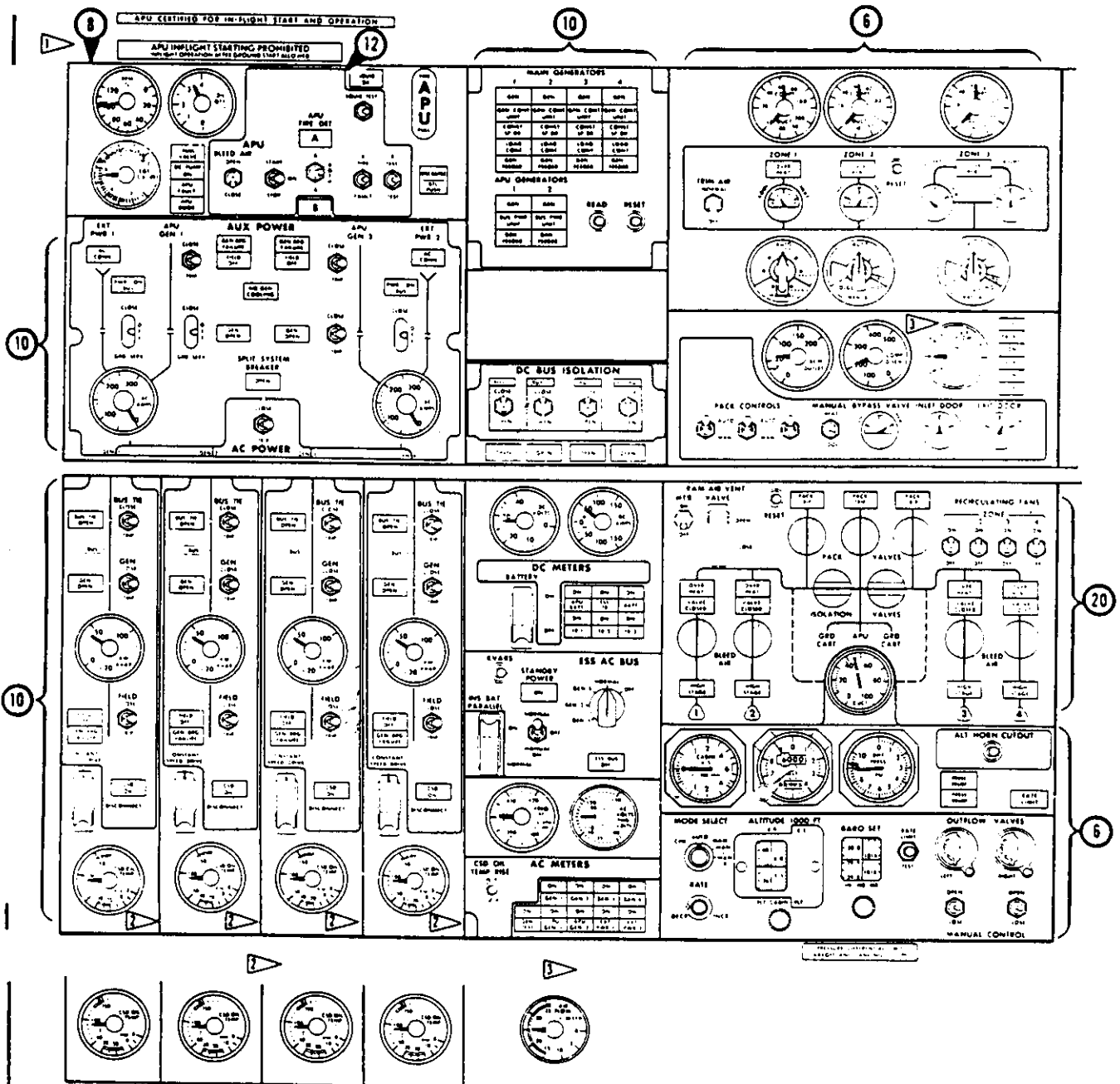
FLIGHT ENGINEER'S INSTRUMENT PANELS - UPPER



FLIGHT ENGINEER'S INSTRUMENT PANELS - LOWER



**FLIGHT ENGINEER'S INSTRUMENT PANELS - UPPER
 (HL7454, HL7458)**



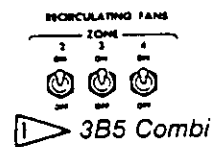
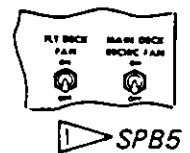
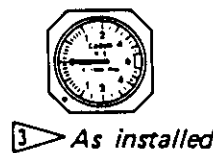
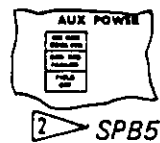
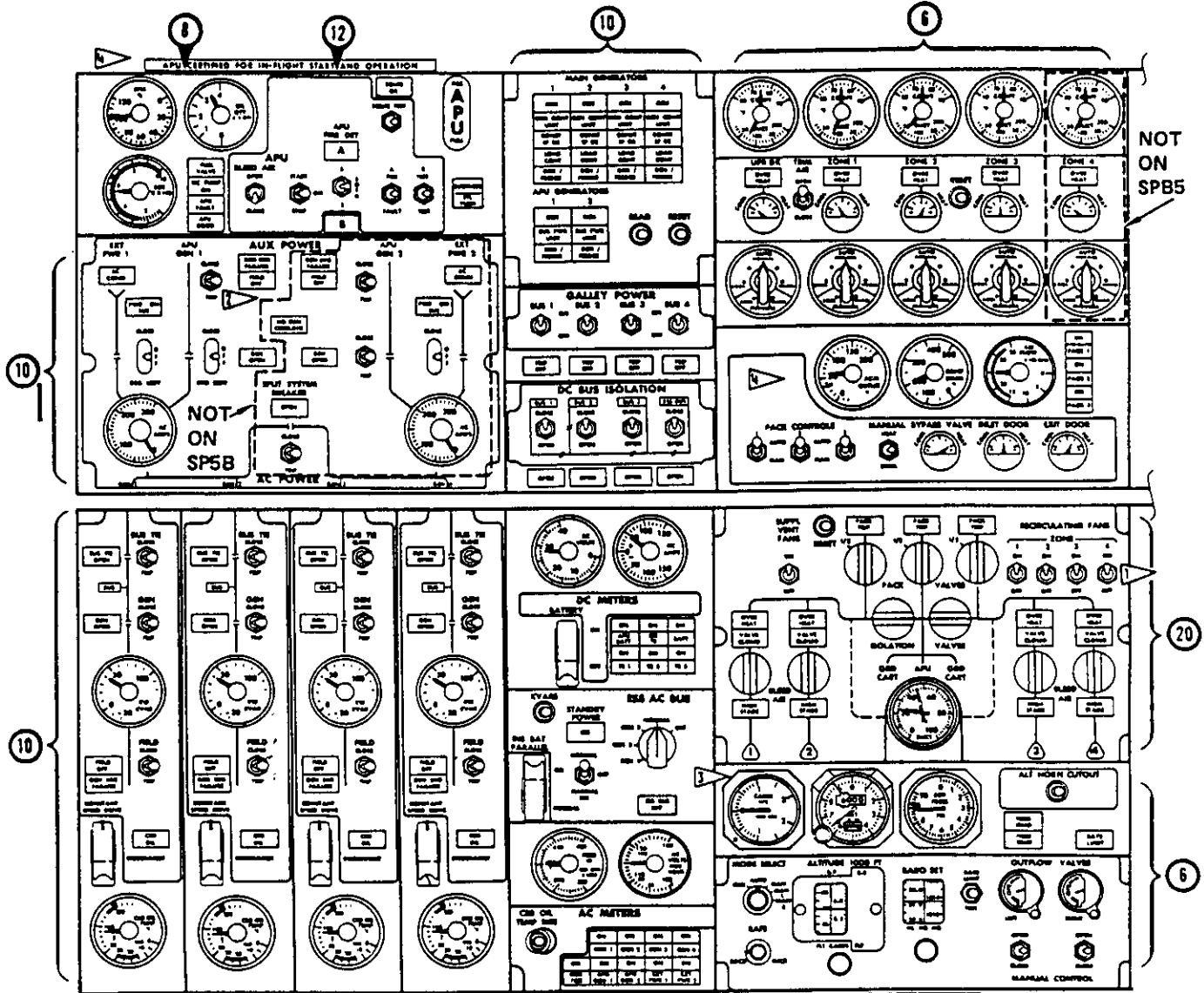
1 thru 3 As installed
FLIGHT ENGINEER'S INSTRUMENT PANEL - UPPER PANEL-LEFT
2B5F

BOEING 747 OPERATIONS MANUAL

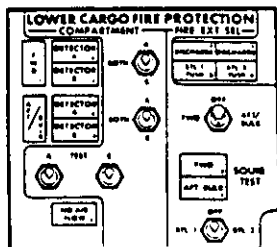
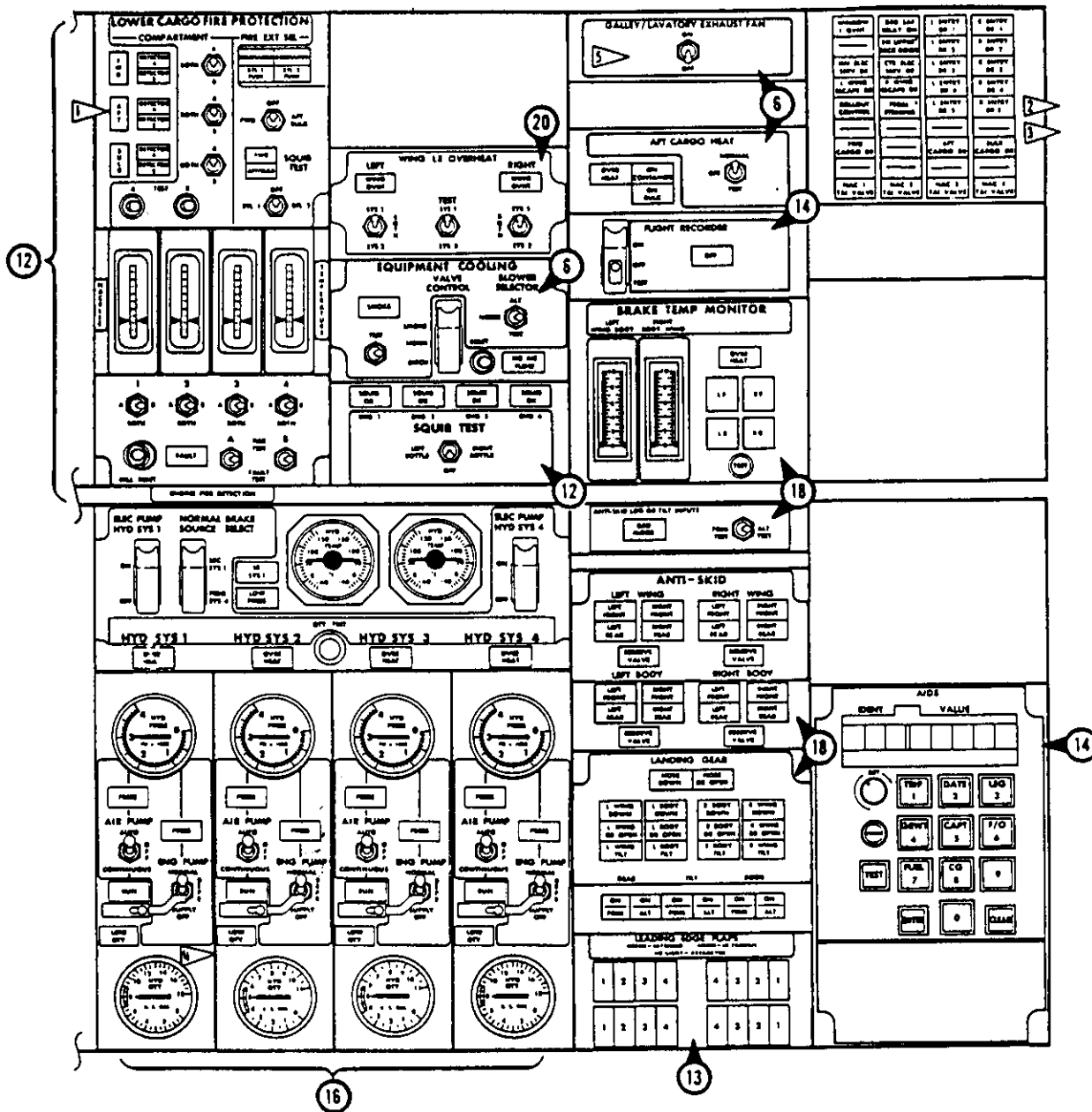
AIRPLANE GENERAL COCKPIT PANELS

APU INFLIGHT STARTING PROHIBITED
INFLIGHT OPERATION AFTER GROUND START ALLOWED

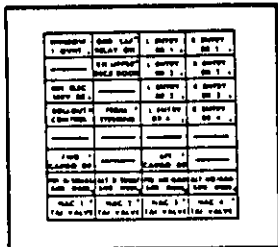
As installed



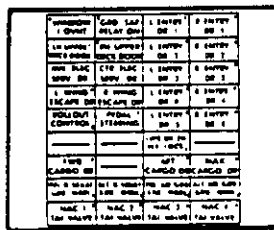
FLIGHT ENGINEER'S INSTRUMENT PANEL - UPPER PANEL-LEFT
(HL7454, HL7458)



1 ▸ SPB5



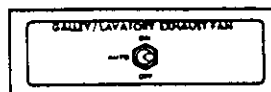
2 ▸ SPB5



3 ▸ As installed

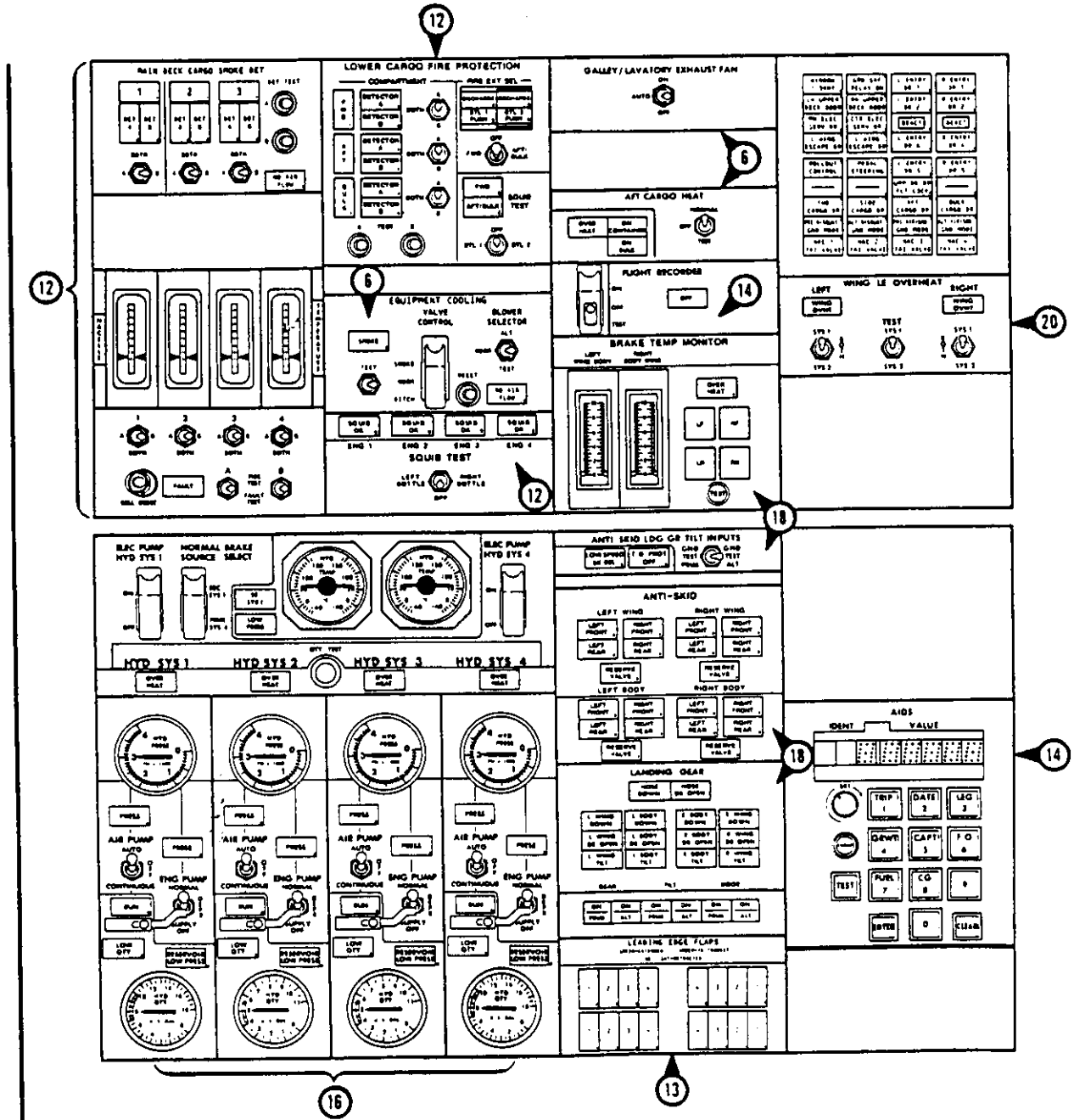
RESERVOIR (4 PLACES)

4 ▸ As installed



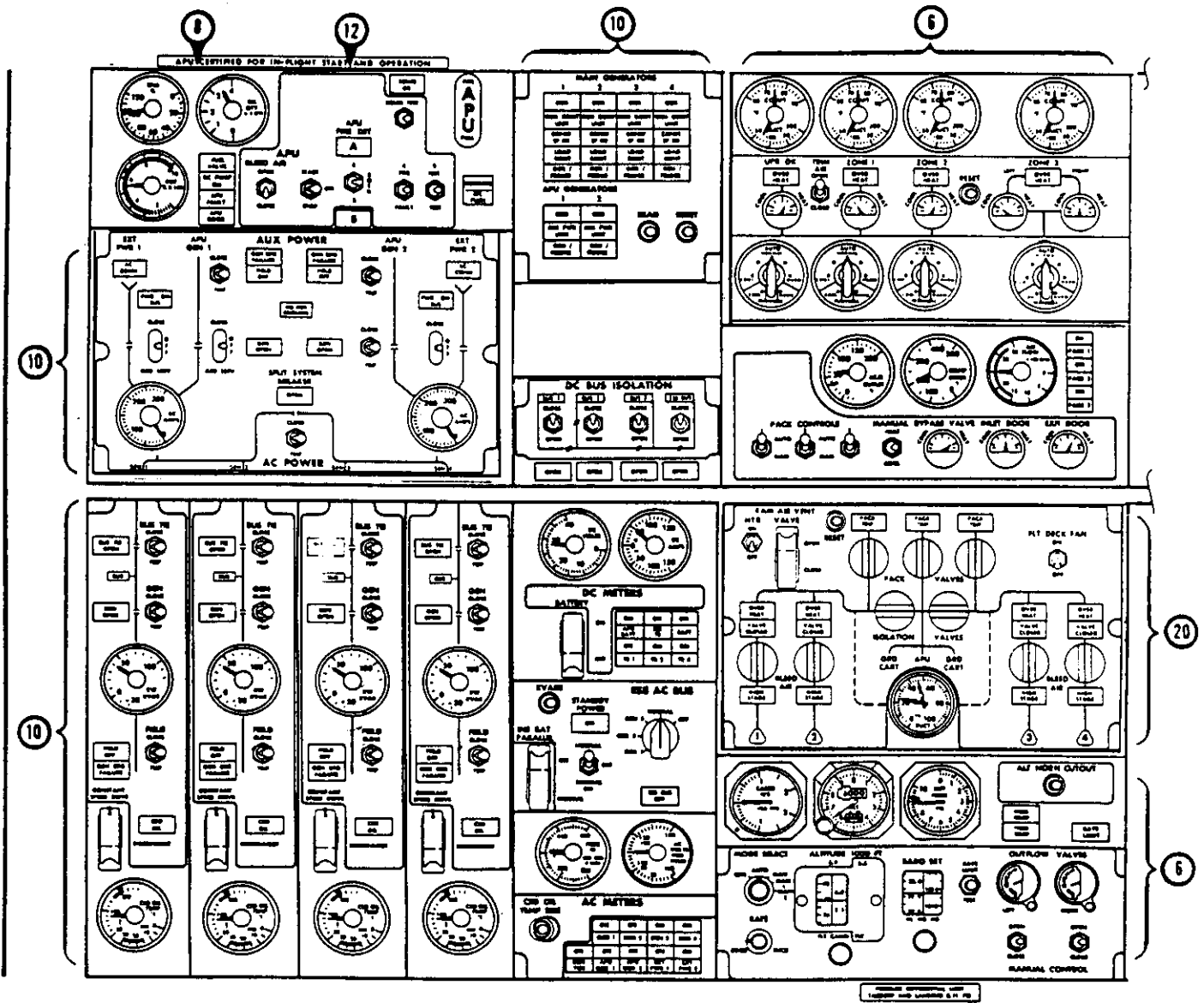
5 ▸ As installed

FLIGHT ENGINEER'S INSTRUMENT PANEL - UPPER PANEL - RIGHT
SPB5, LATER 2B5B, 3B5

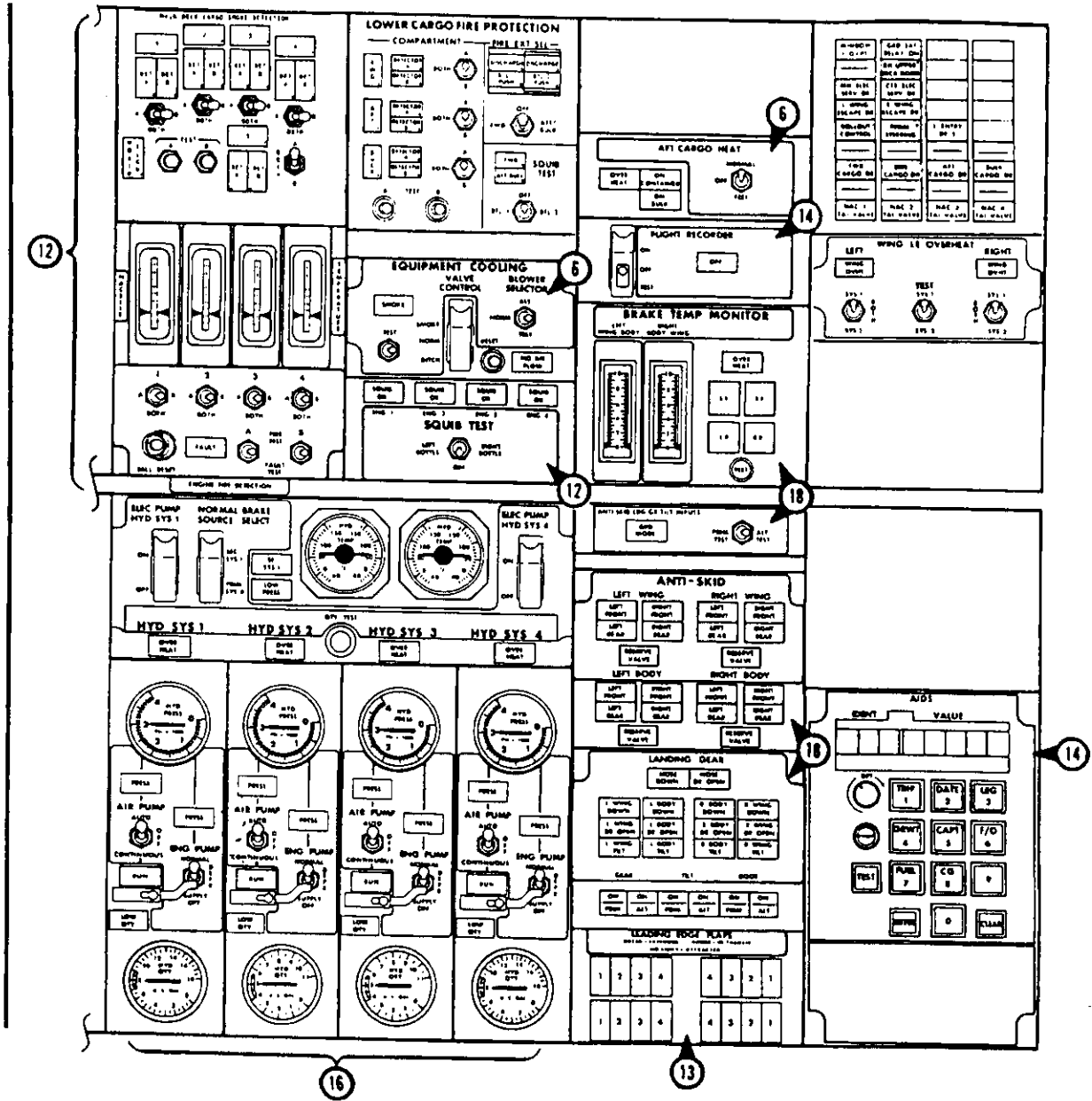


FLIGHT ENGINEER'S PANEL - UPPER PANEL - RIGHT

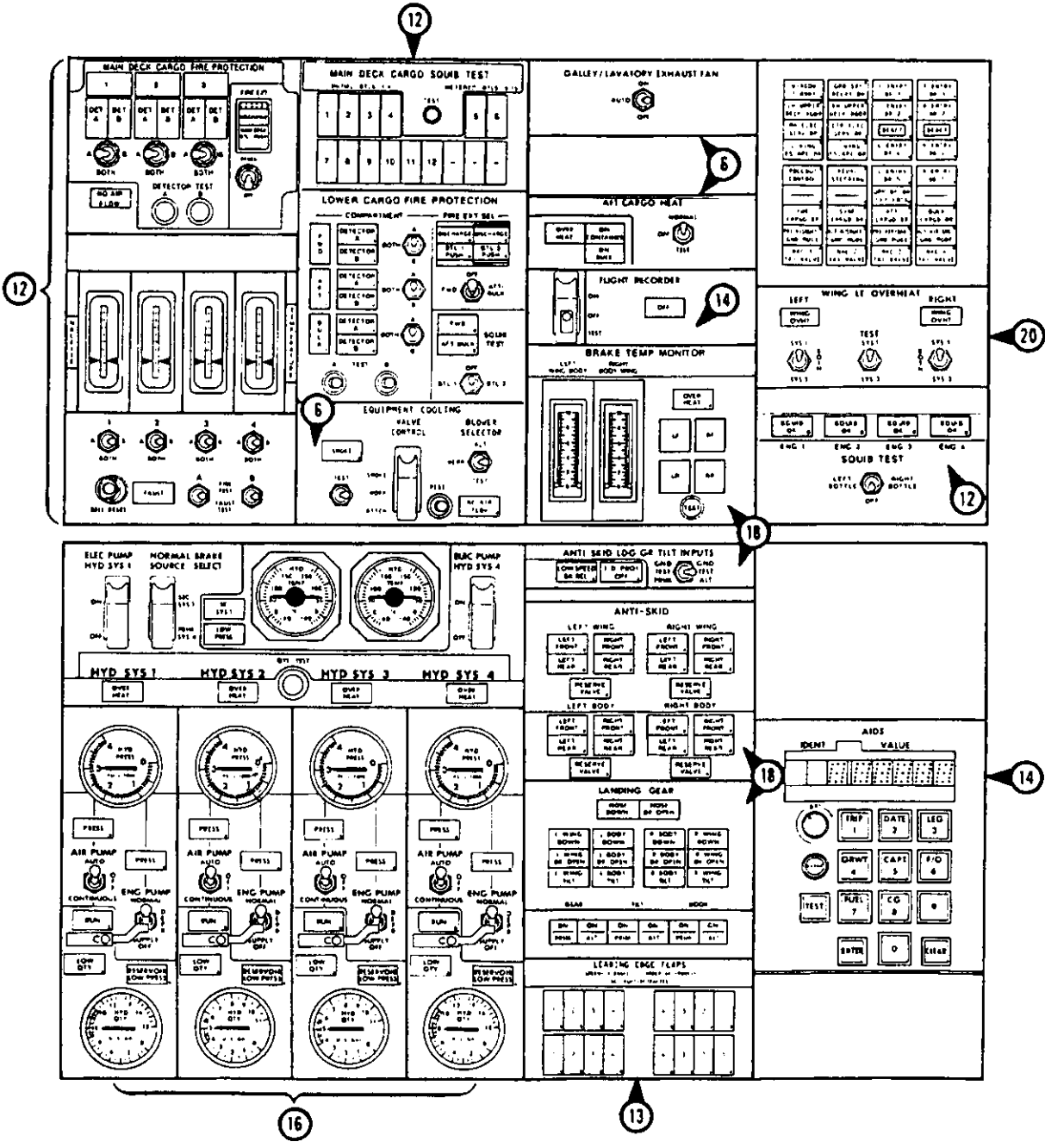
3B5-COMBI



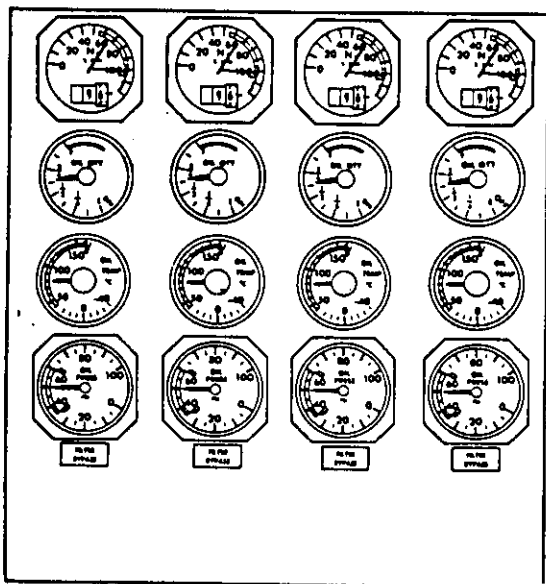
FLIGHT ENGINEER'S INSTRUMENT PANEL - UPPER PANEL-LEFT
(HL7454, HL7458)



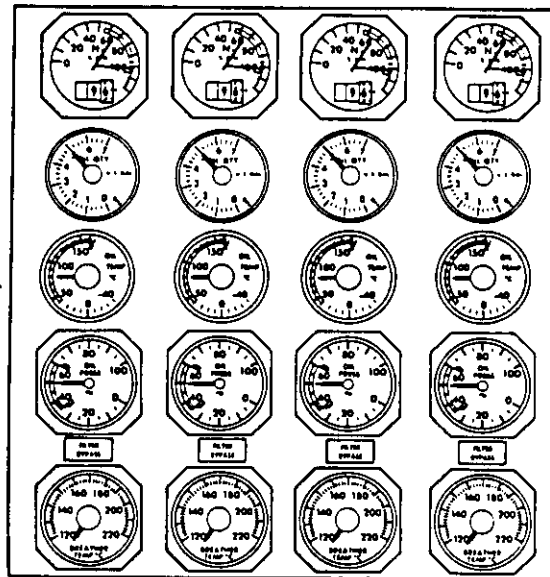
FLIGHT ENGINEER'S INSTRUMENT PANEL - UPPER PANEL - RIGHT
(HL7454, HL7458)



FLIGHT ENGINEER'S PANEL - UPPER PANEL - RIGHT
(HL 7470)

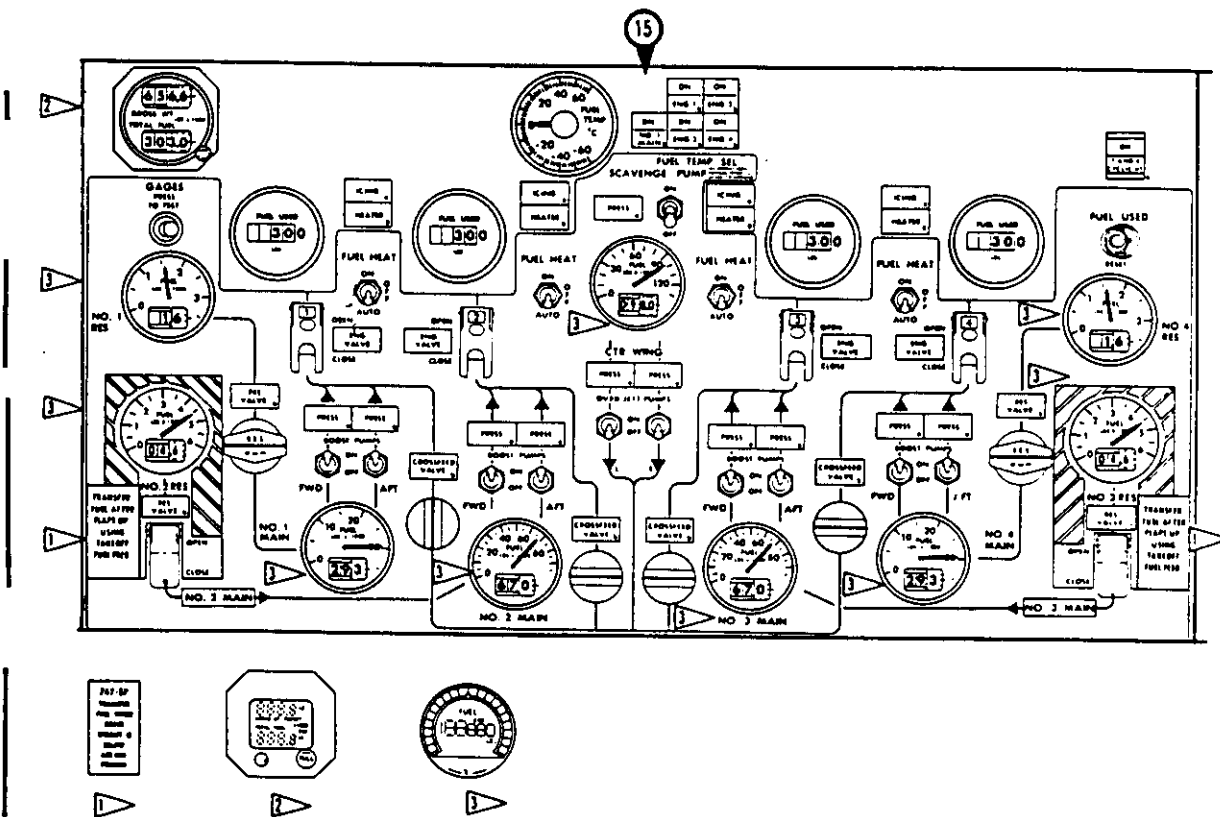


2B5F, later 2B5B, 3B5



SPB5

21



1 thru 3 As installed

FLIGHT ENGINEER'S LOWER INSTRUMENT PANELS
2B5F, SPB5, LATER 2B5B, 3B5