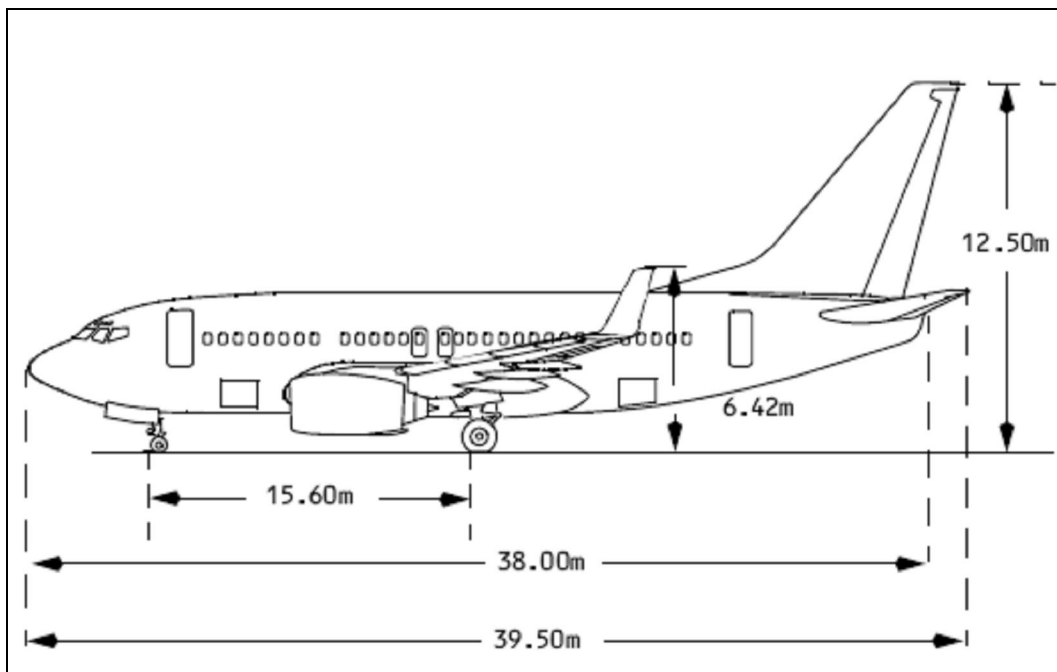


BOEING 737 MEASUREMENTS

for

HOME FLIGHT SIMULATOR

FLIGHT DECK BUILDING



By
Mark @
MARKUSPILOT dot COM

•

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Data taken from various sources:-

from my own measurements , and
from various internet websites

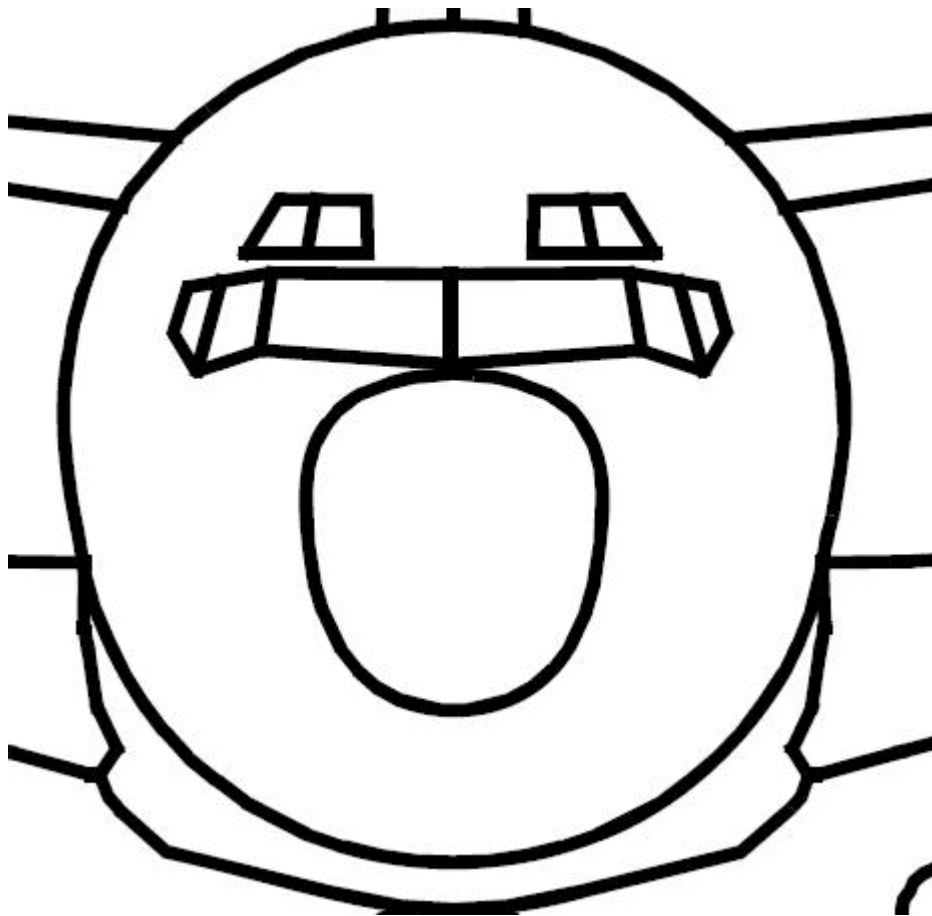
Accuracy to about 10mm

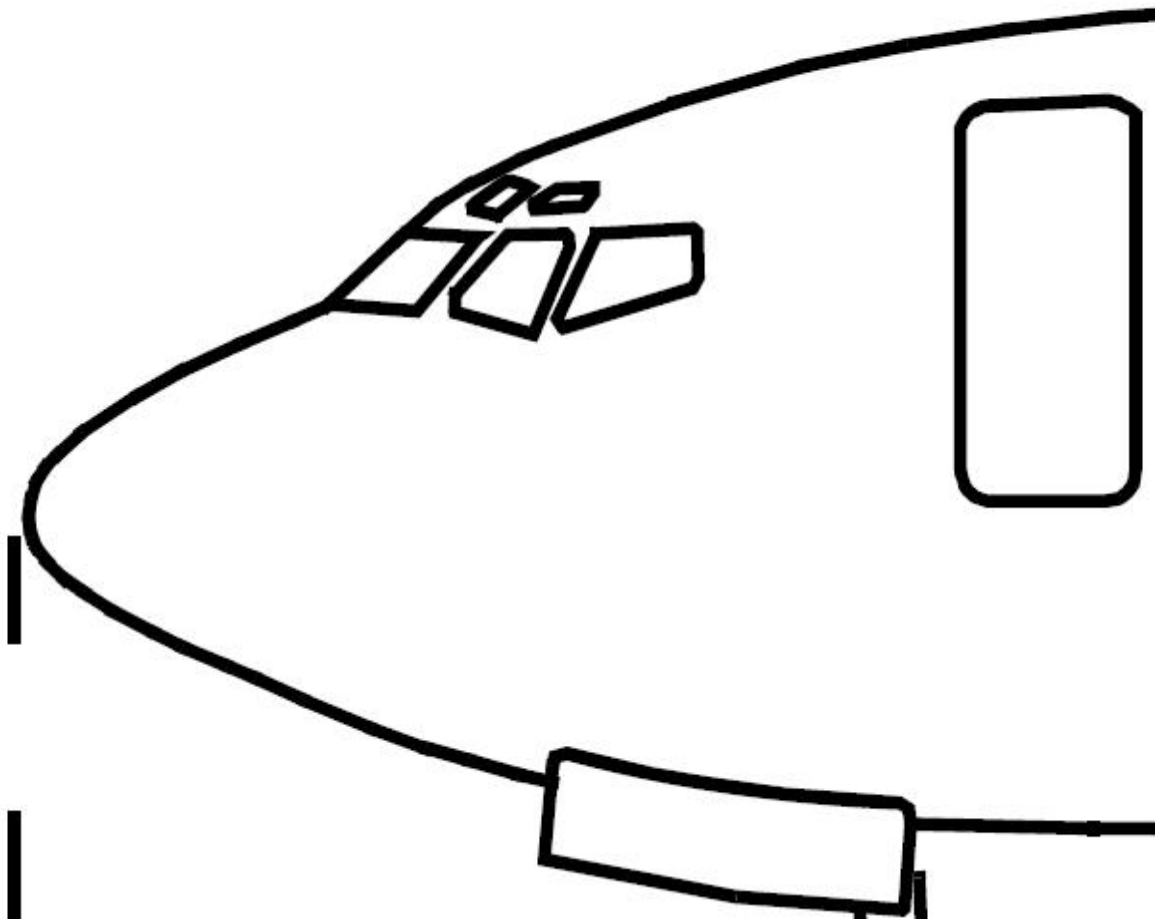
See web-site for email address

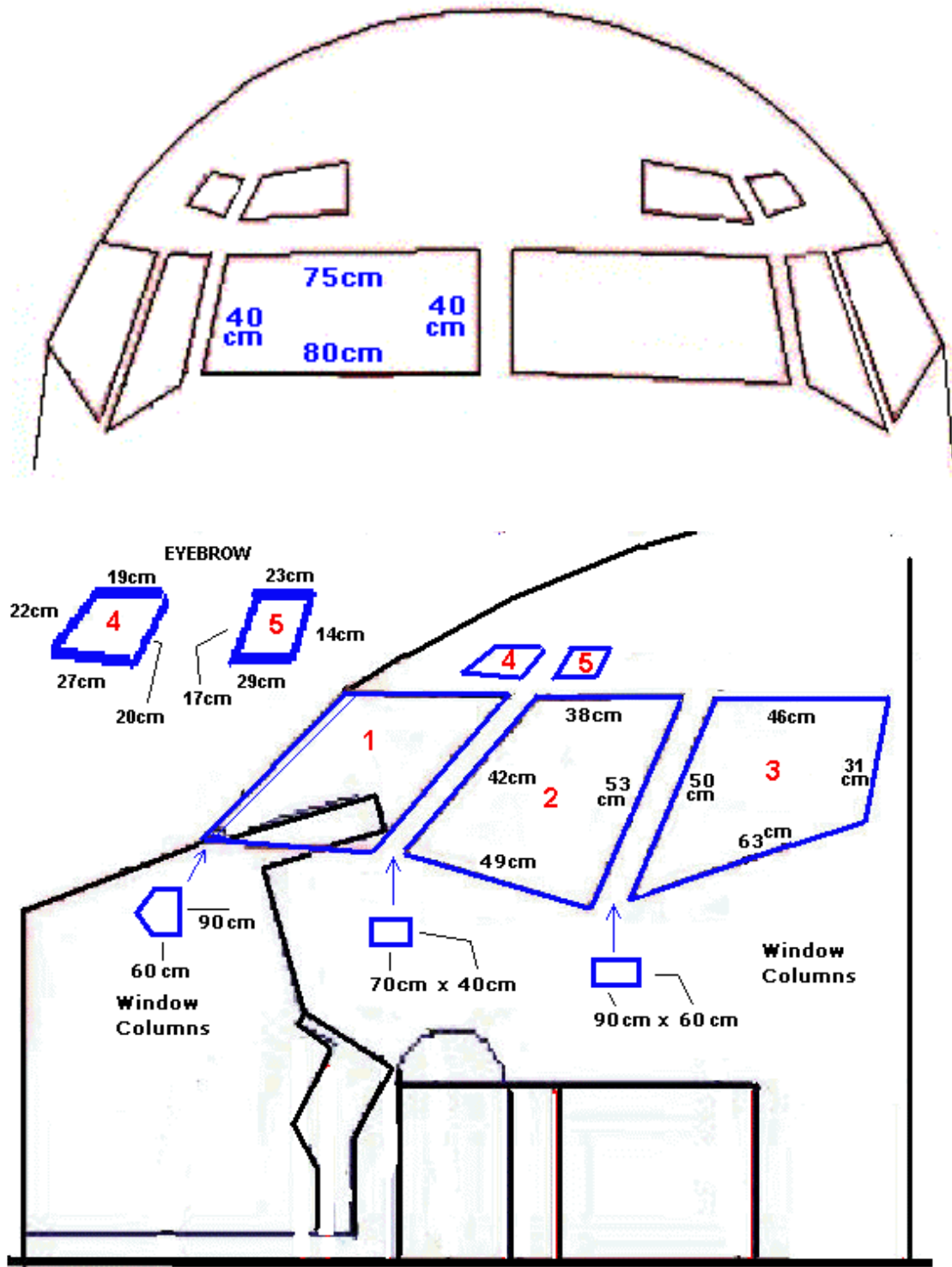
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FLIGHT DECK SHELL

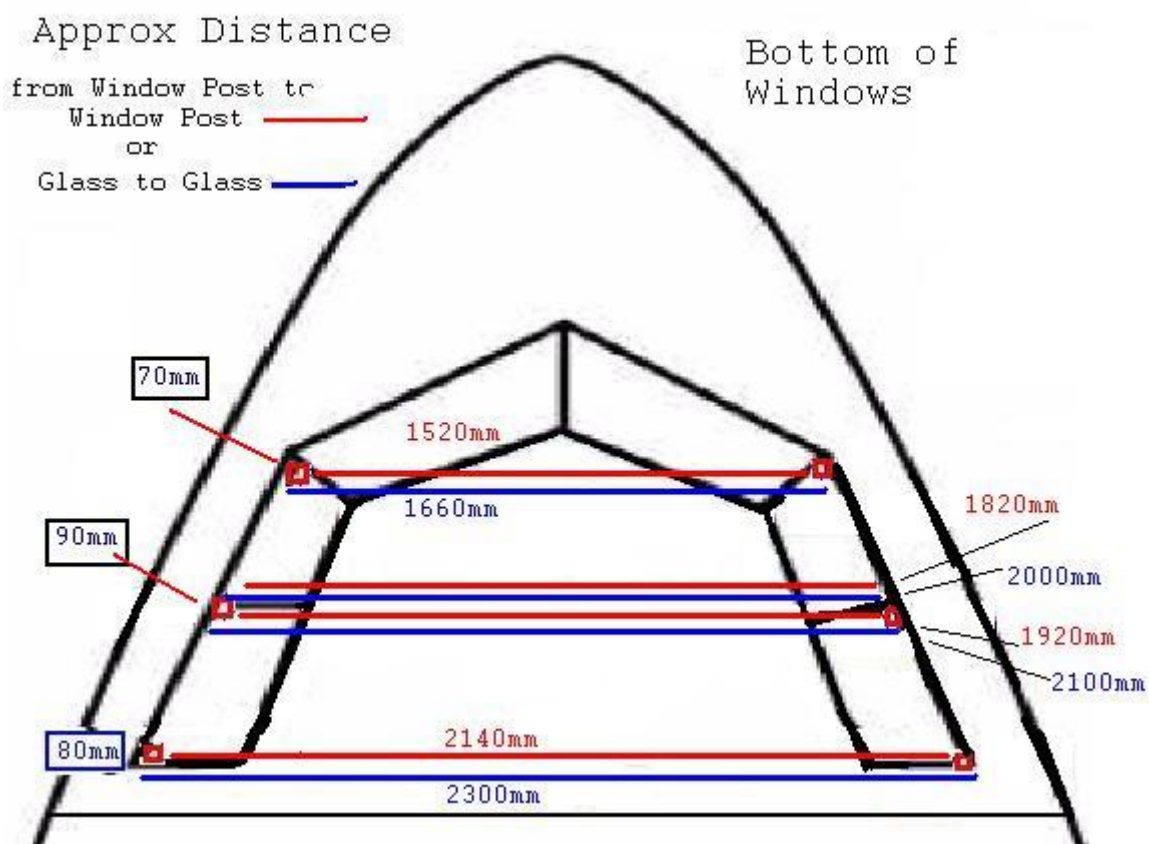
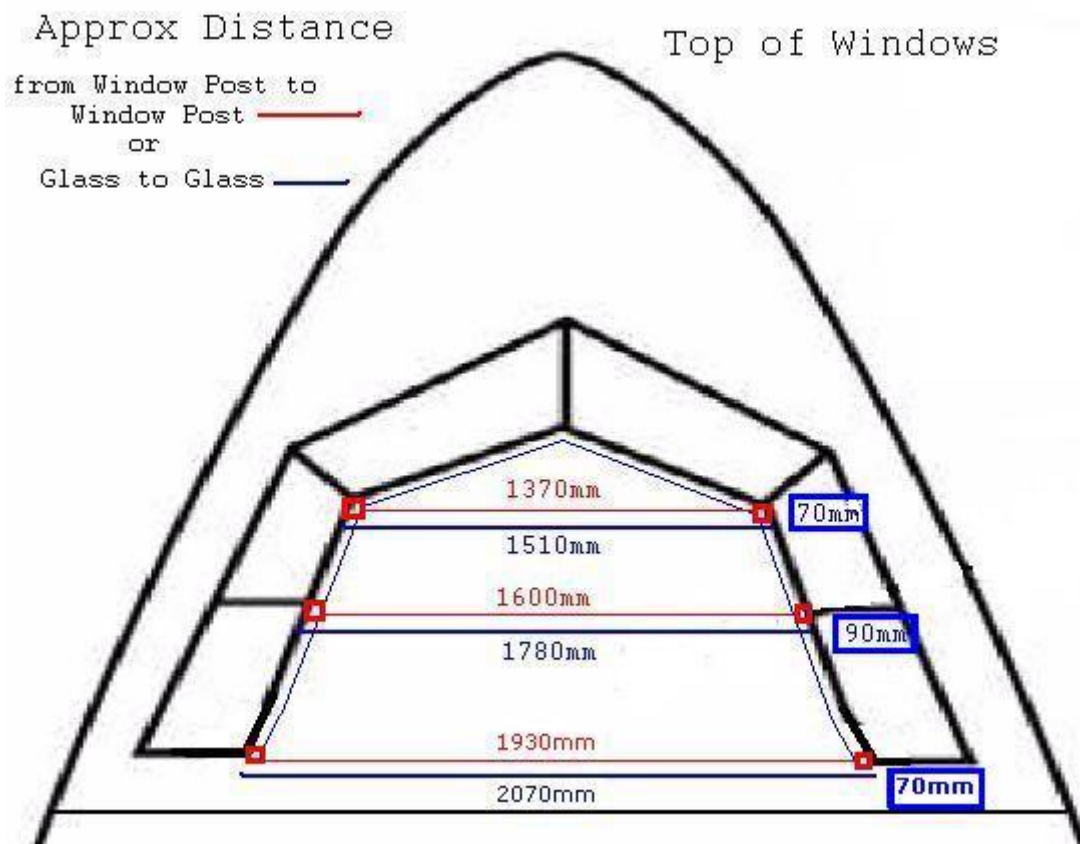




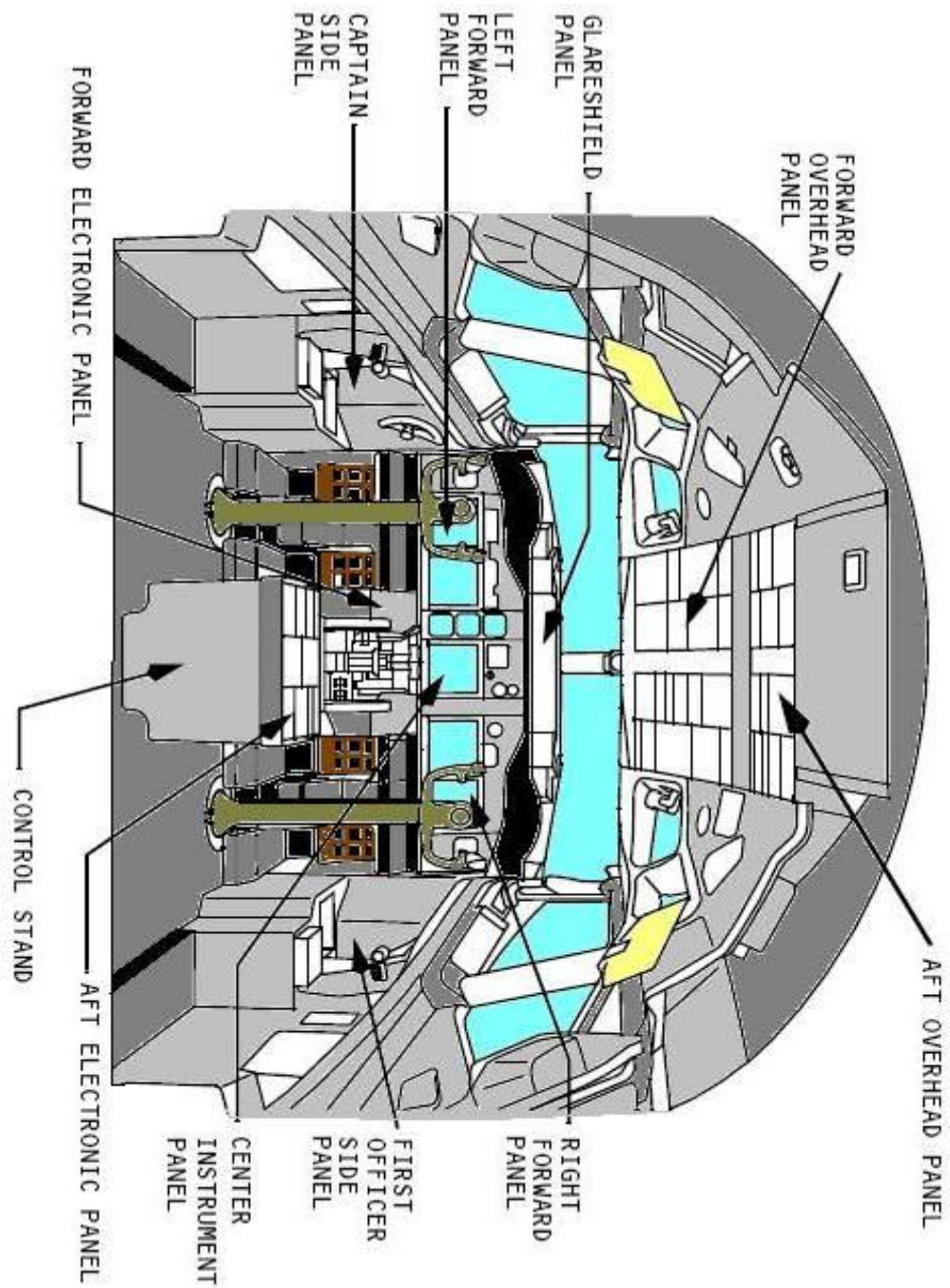


Fwd Window Column 90cm wide 60cm deep;
 Window 1 / 2 70cm long x 40cm wide;
 Window 2 / 3 90cm long x 60cm wide

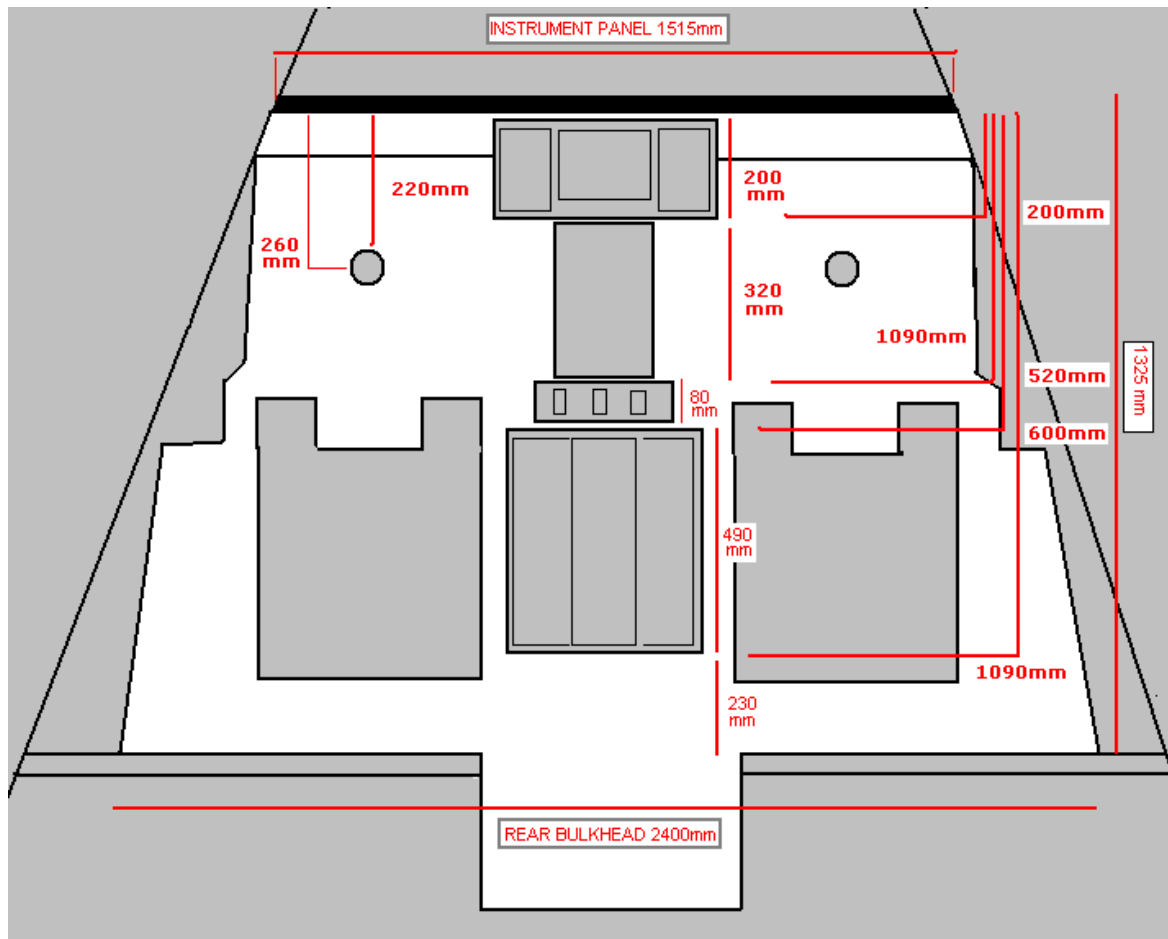
Frame Dimensions

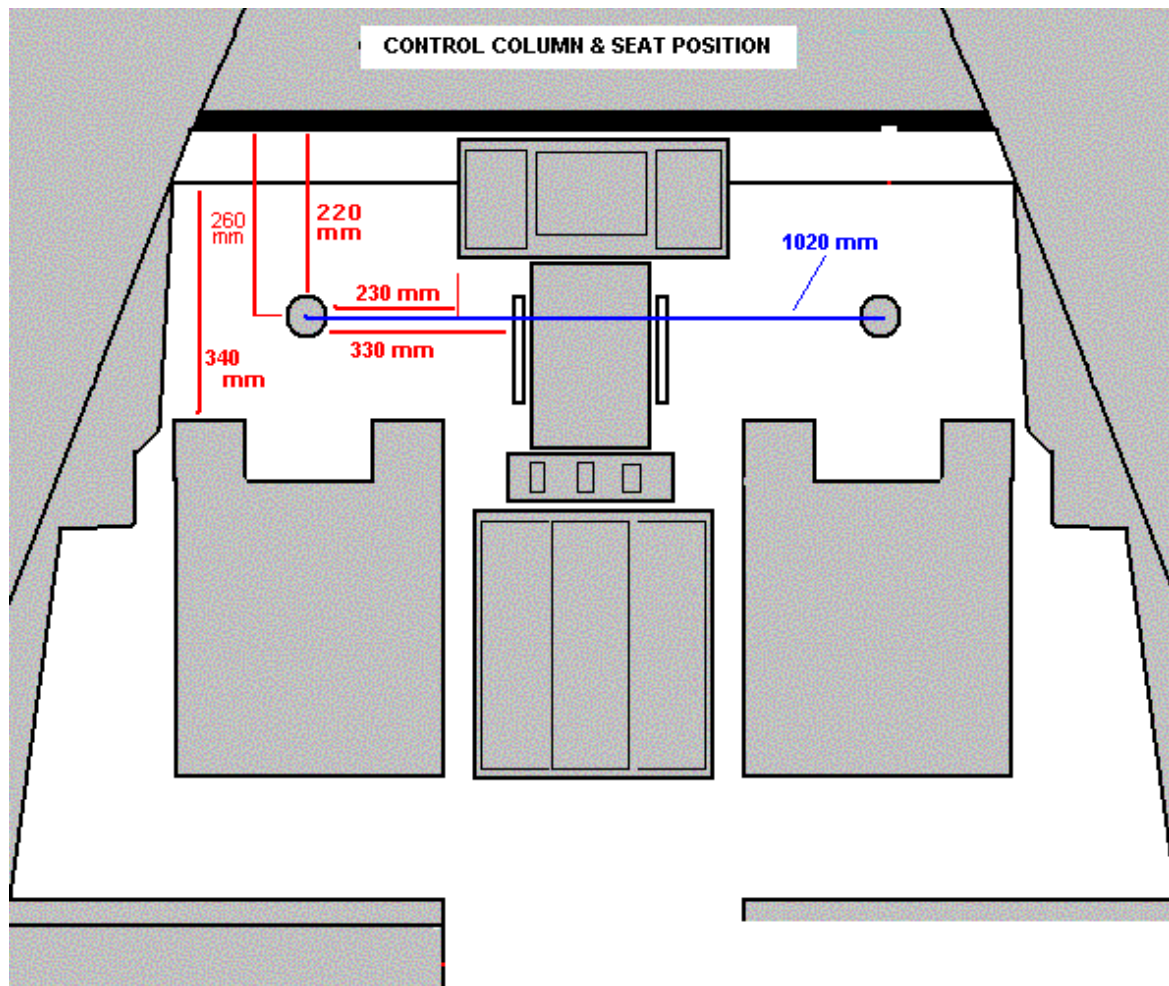


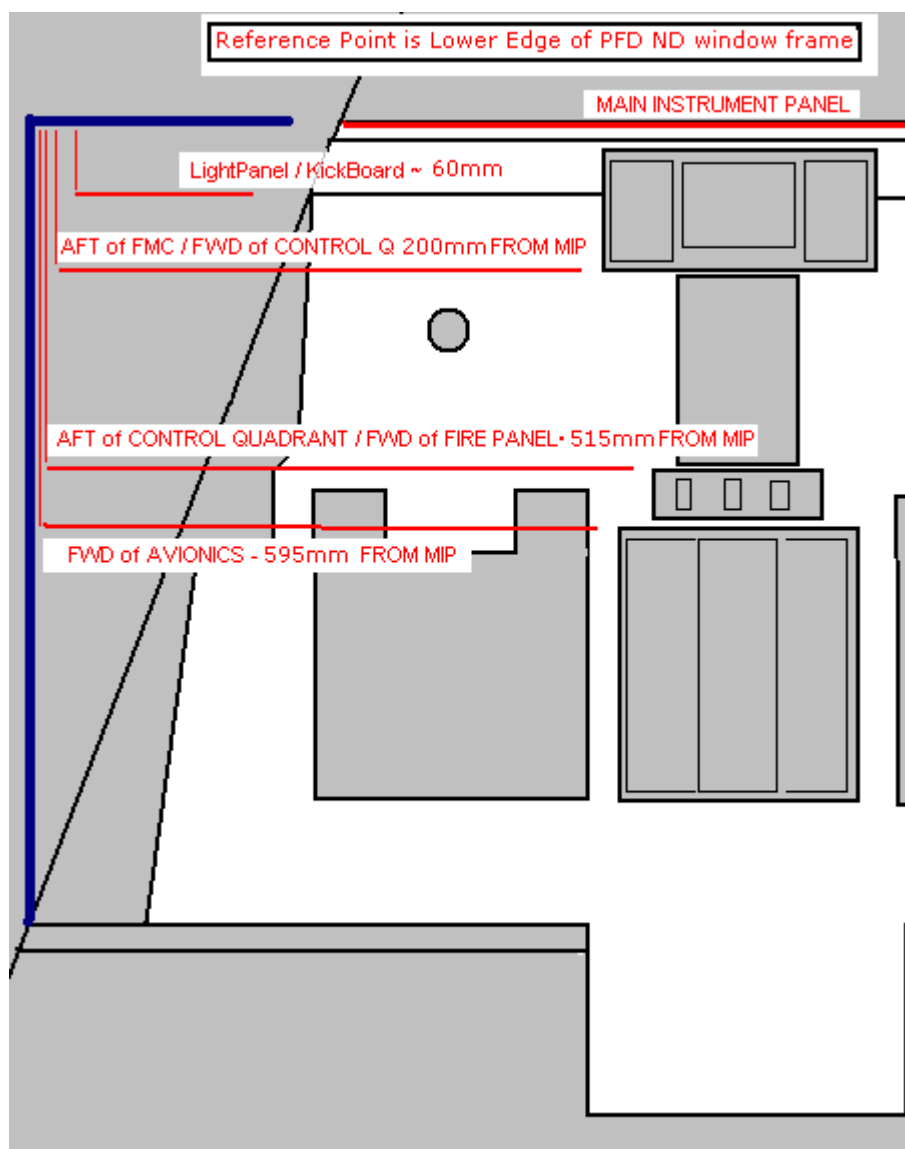
FLIGHT DECK PLAN

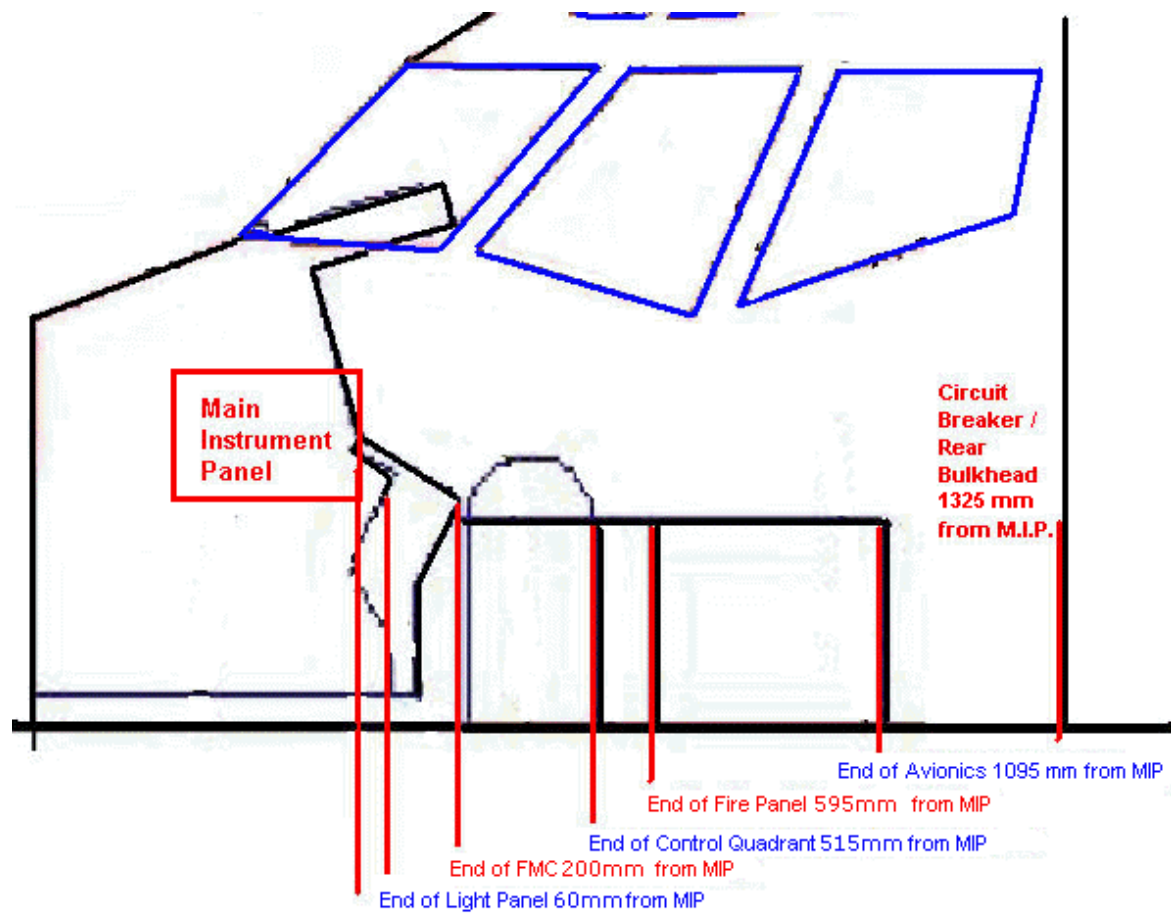


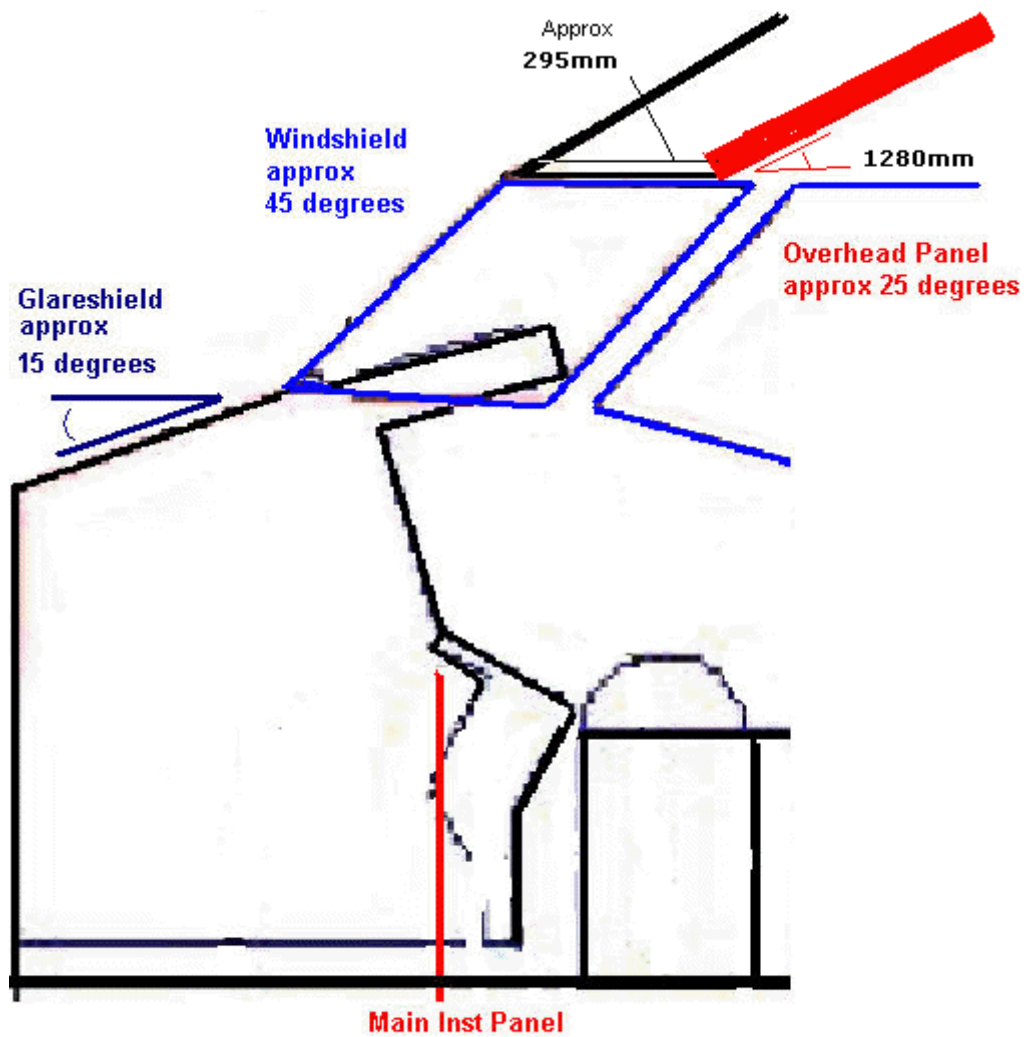
MEARSUREMENTS referenced from the MAIN INSTRUMENT PANEL





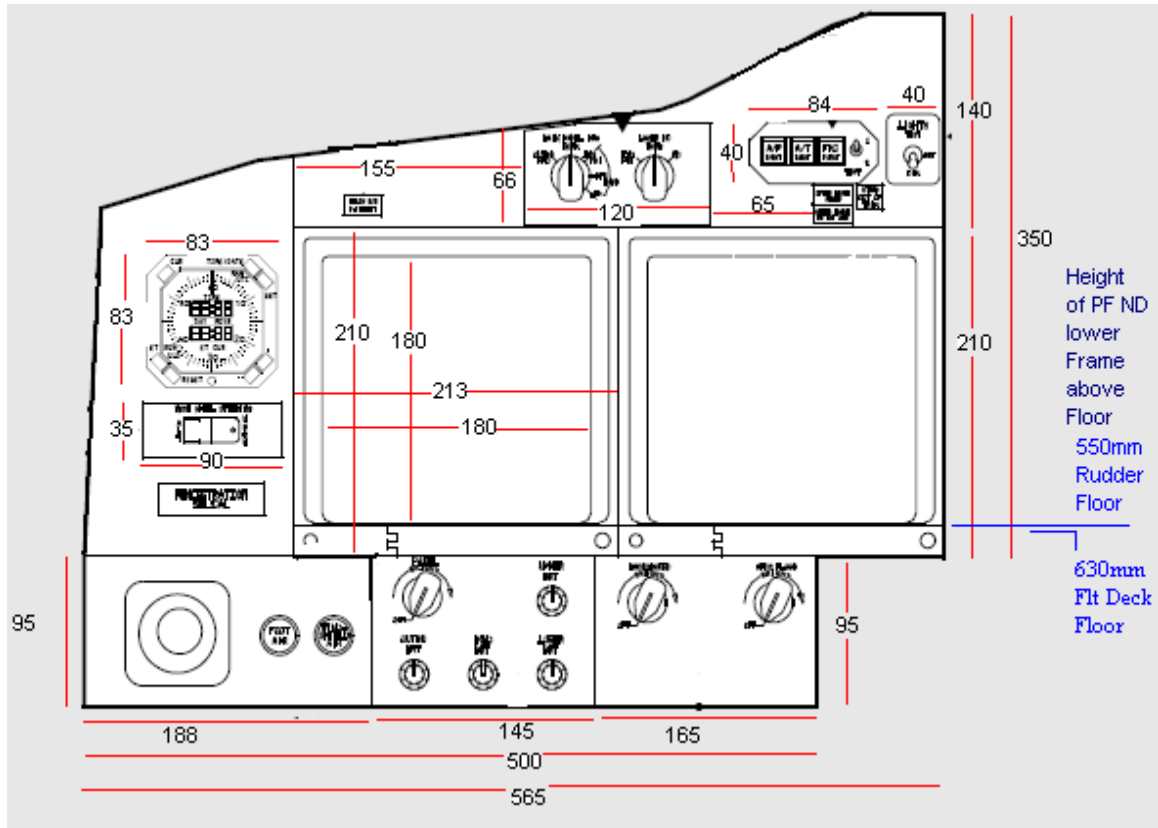






MAIN INSTRUMENT PANEL

CAPTAIN'S PANEL



• Height of Panel.

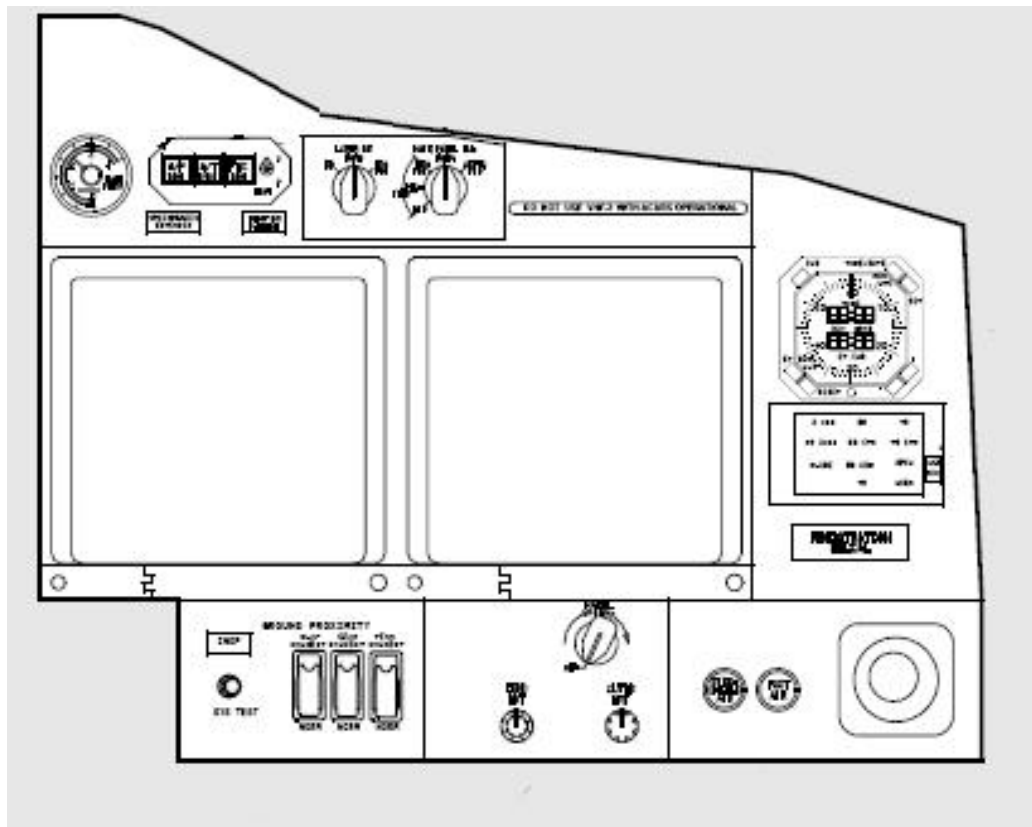
- Lower edge of the Primary Flight Display / Nav Display is
 - 550mm above the Rudder Floor Level
 - 630mm above the Flight Deck Level
 - (Rudder Pedal floor is 70~75mm above Flight Deck Floor)

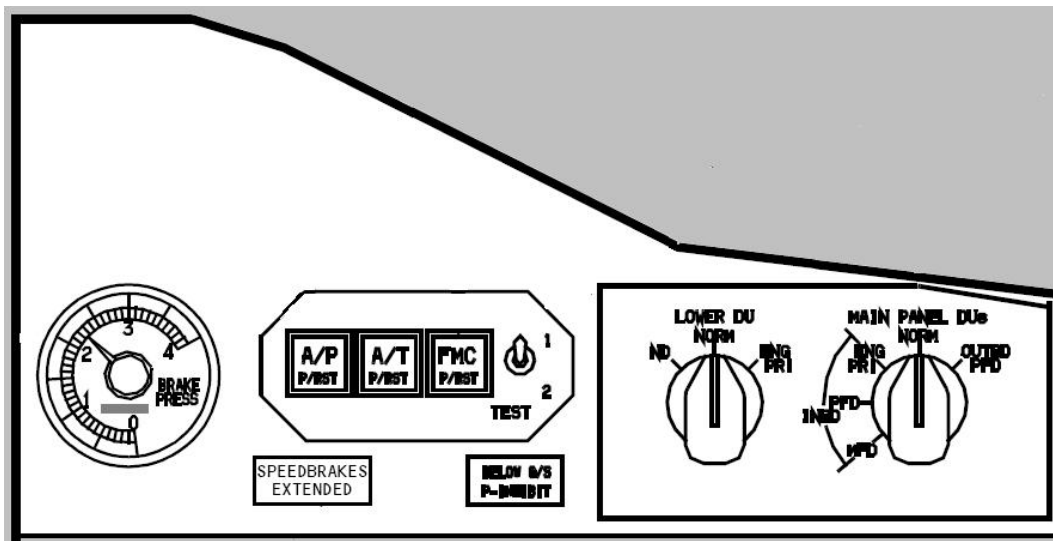
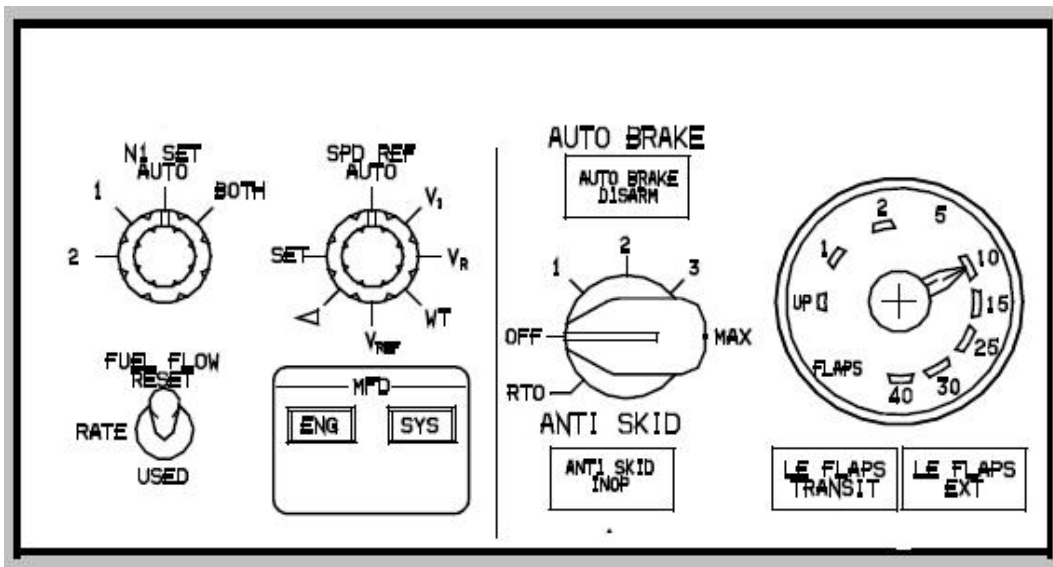
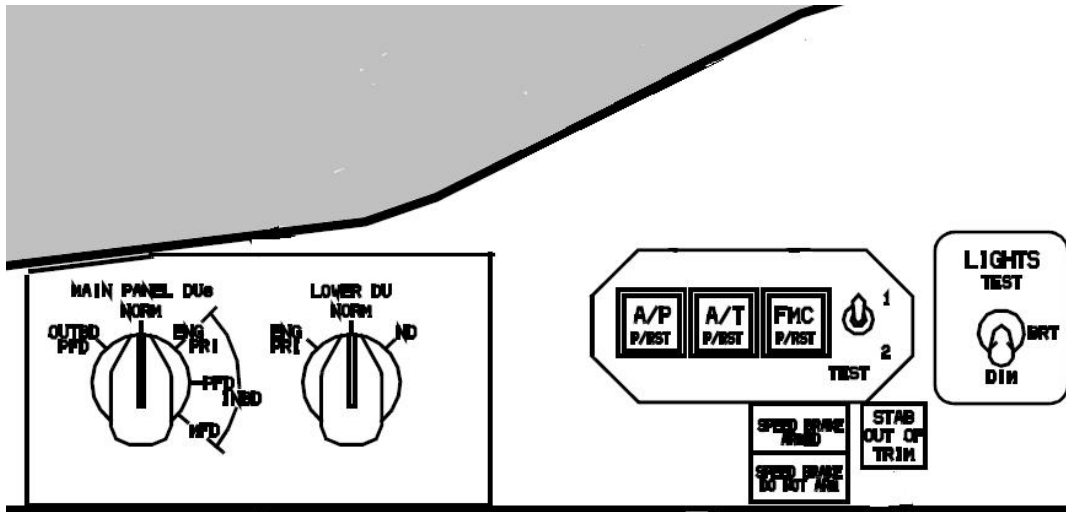
Position of Main Instrument Panel =
 00 mm from Main Instrument Panel (measured from lower edge of MIP)
THIS IS THE POINT AT WHICH I HAVE USED AS A DATUM
OR
REFERENCE POINT FOR ALL MY MEASUREMENTS

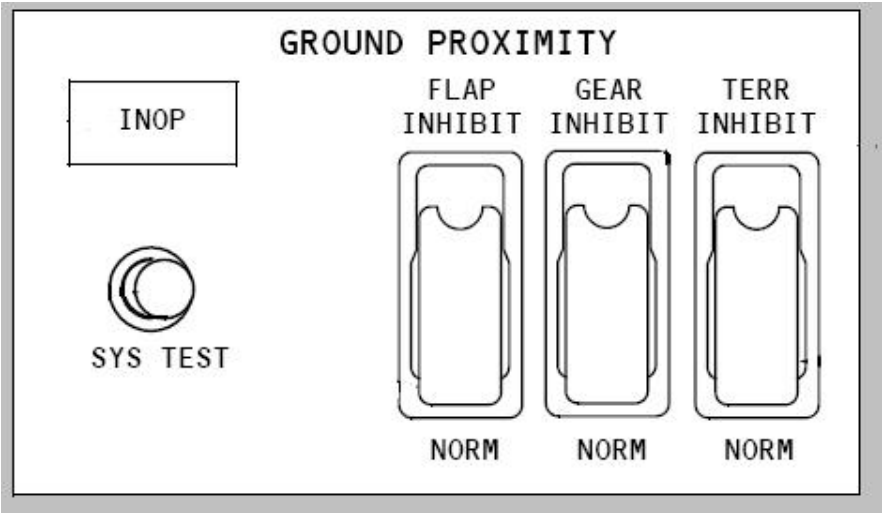
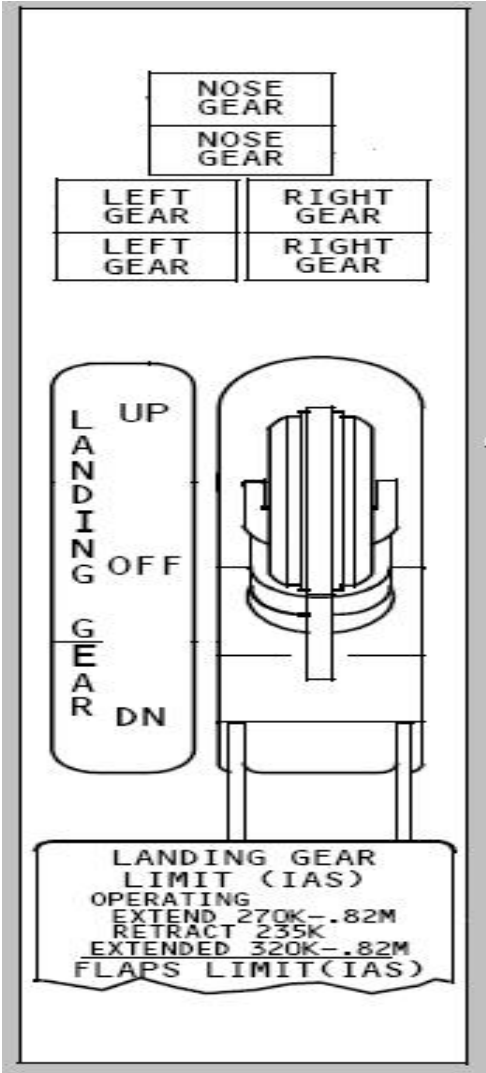
Position of Main Instrument Panel = 1325 mm from Aft Wall Bulkhead



FIRST OFFICER PANEL

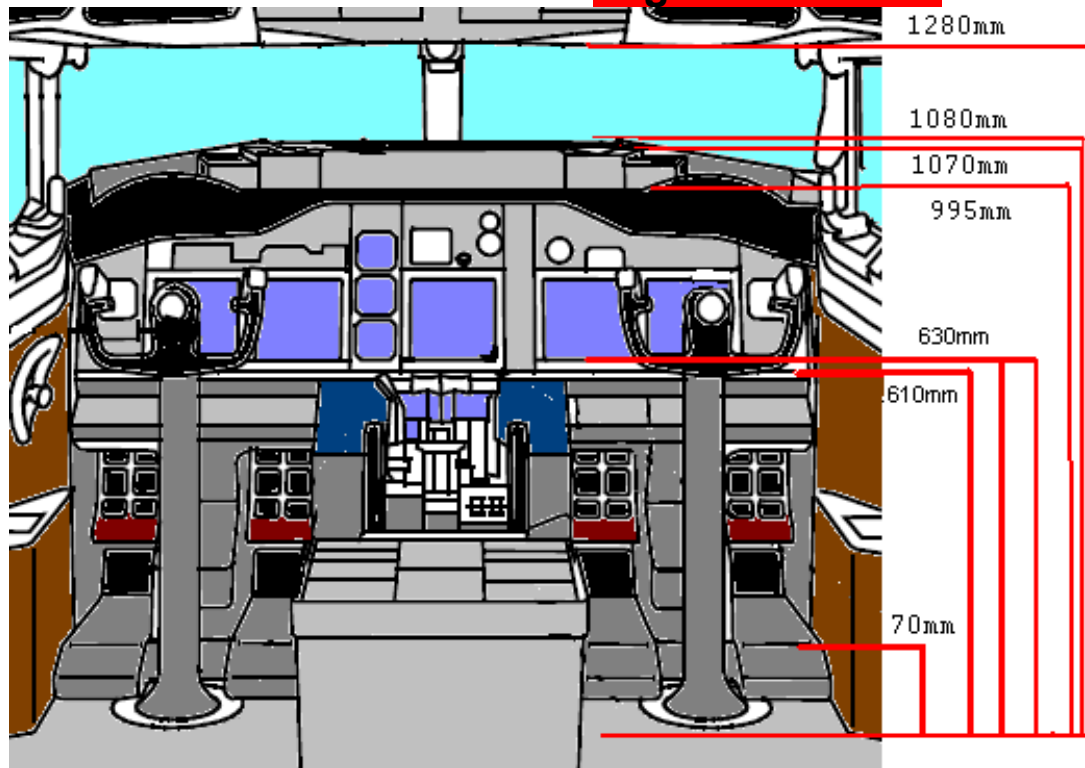




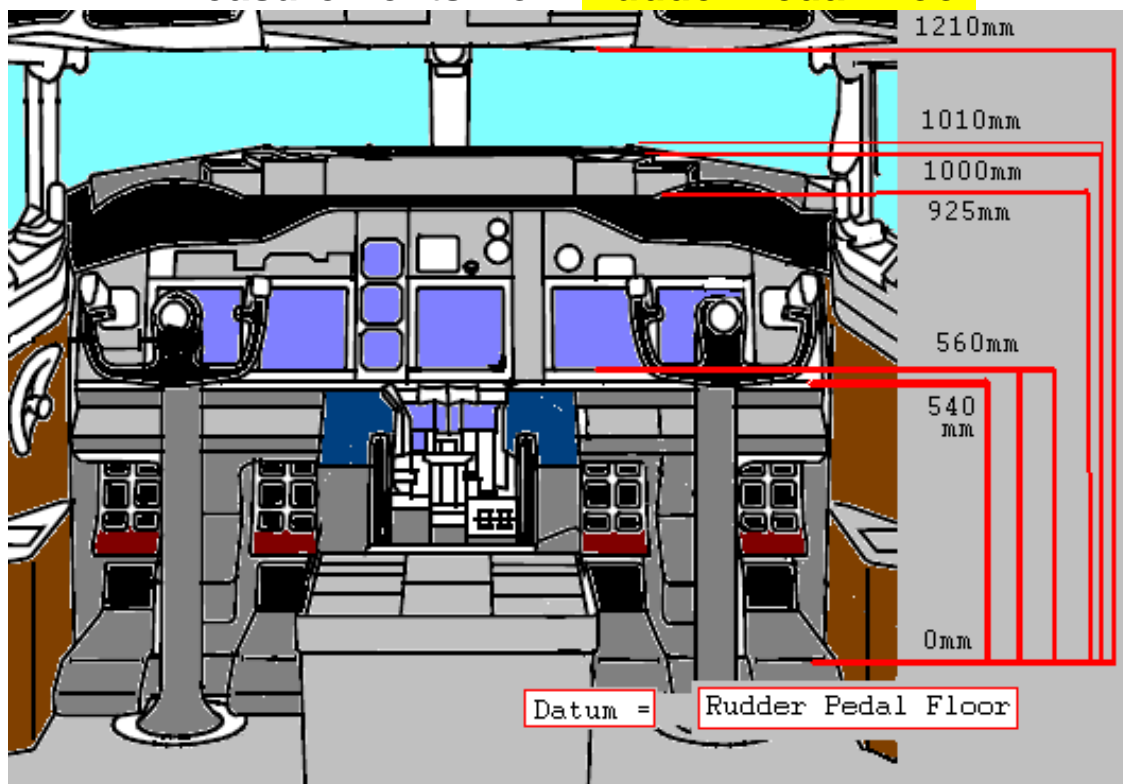


MAIN INST PANEL

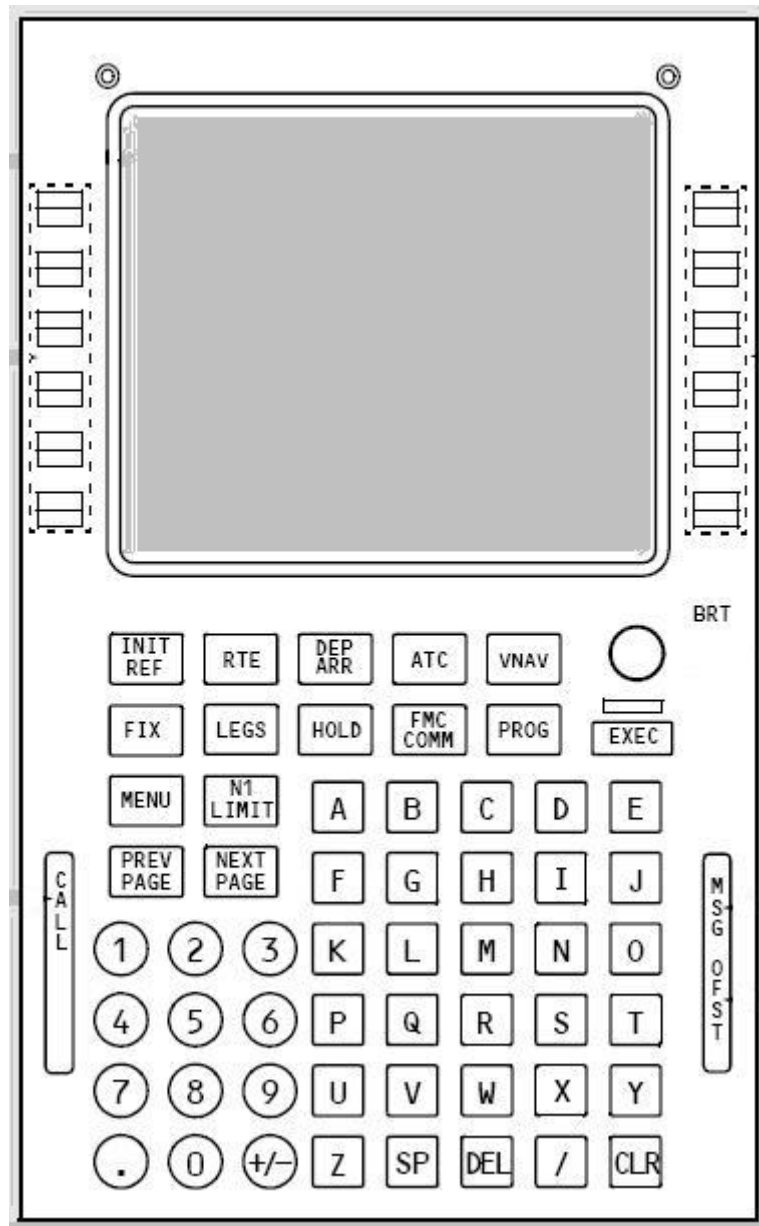
Measurements from **Flight Deck Floor**



Measurements from **Rudder Pedal Floor**



FMC / CDU & LDU PANEL



FMC PANEL POSITION in the FLIGHT DECK

Position of Forward Edge = 05 mm from Main Instrument Panel
upper edge abuts the lower edge of the M.I.P.

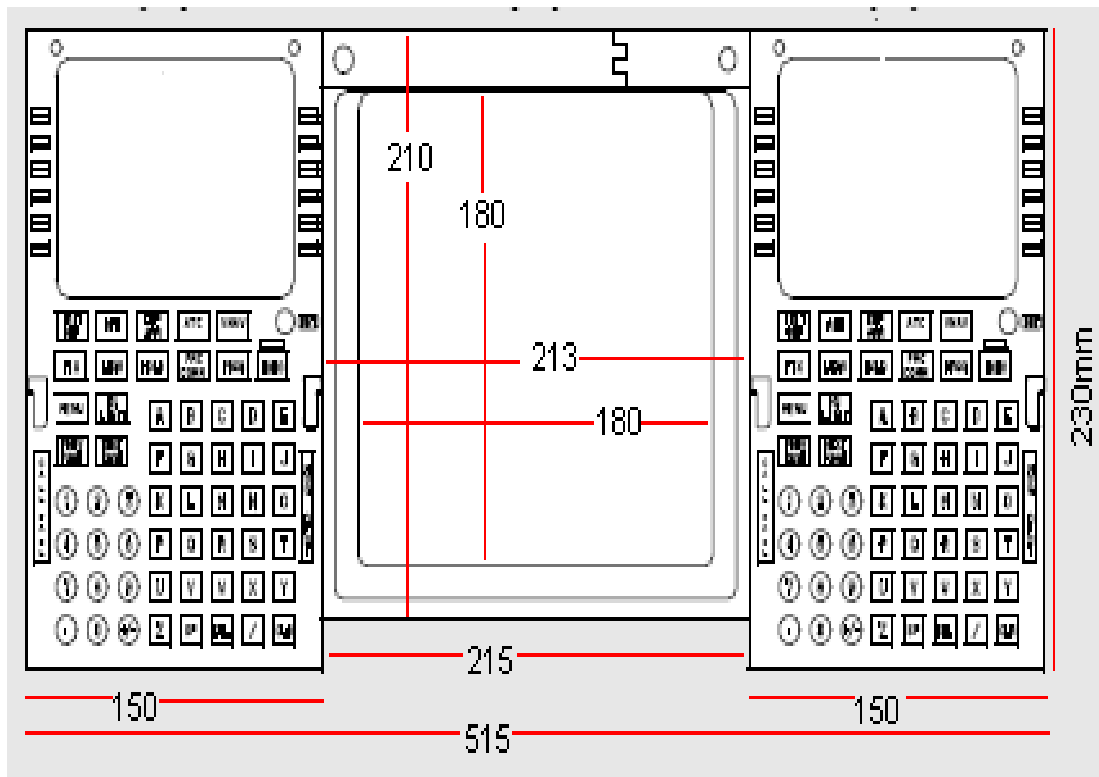
FMC & LDU MEASUREMENTS

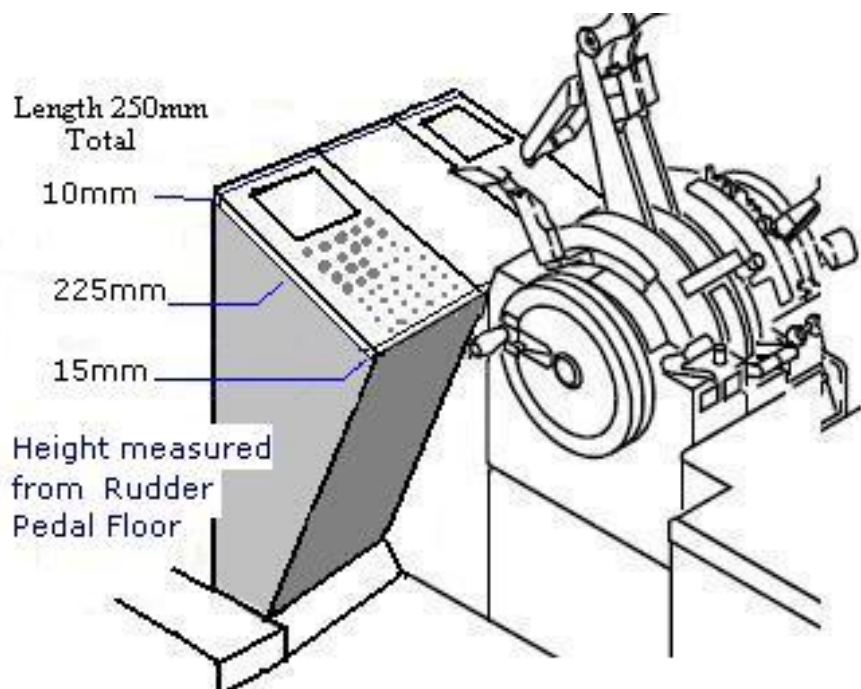
- approximate length mm • 225 mm
- approximate width mm • 515 mm

- Height at Top of FMC Unit
505 mm from (rudder) floor @ top of FMC unit

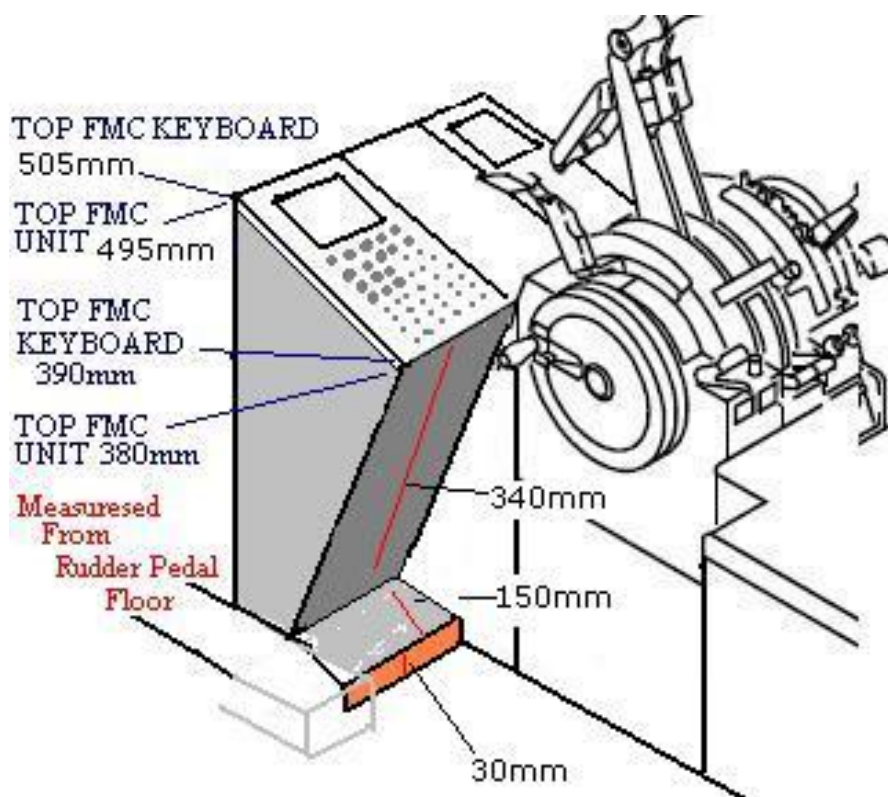
- Height at Bottom of FMC Unit
390 mm from (rudder) floor @ bottom of FMC keyboard

- SLOPE
Approx 30 ° slope



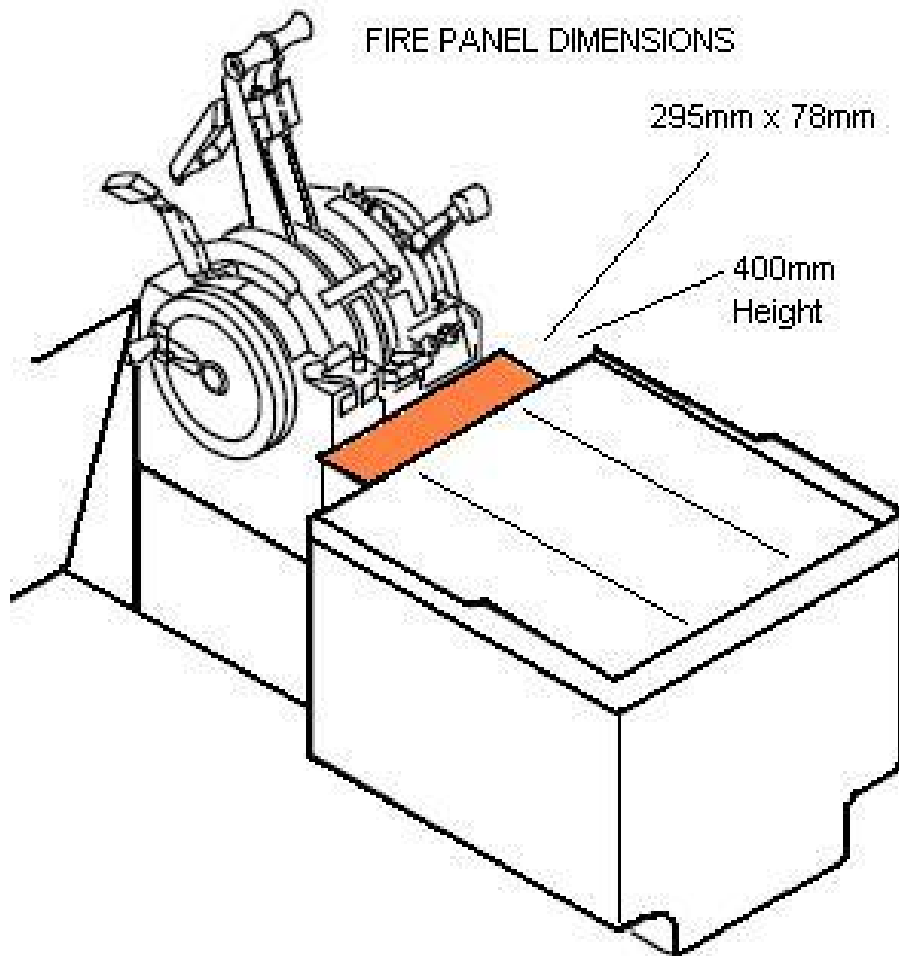


FMC-CDU CENTRE FORWARD SECTION

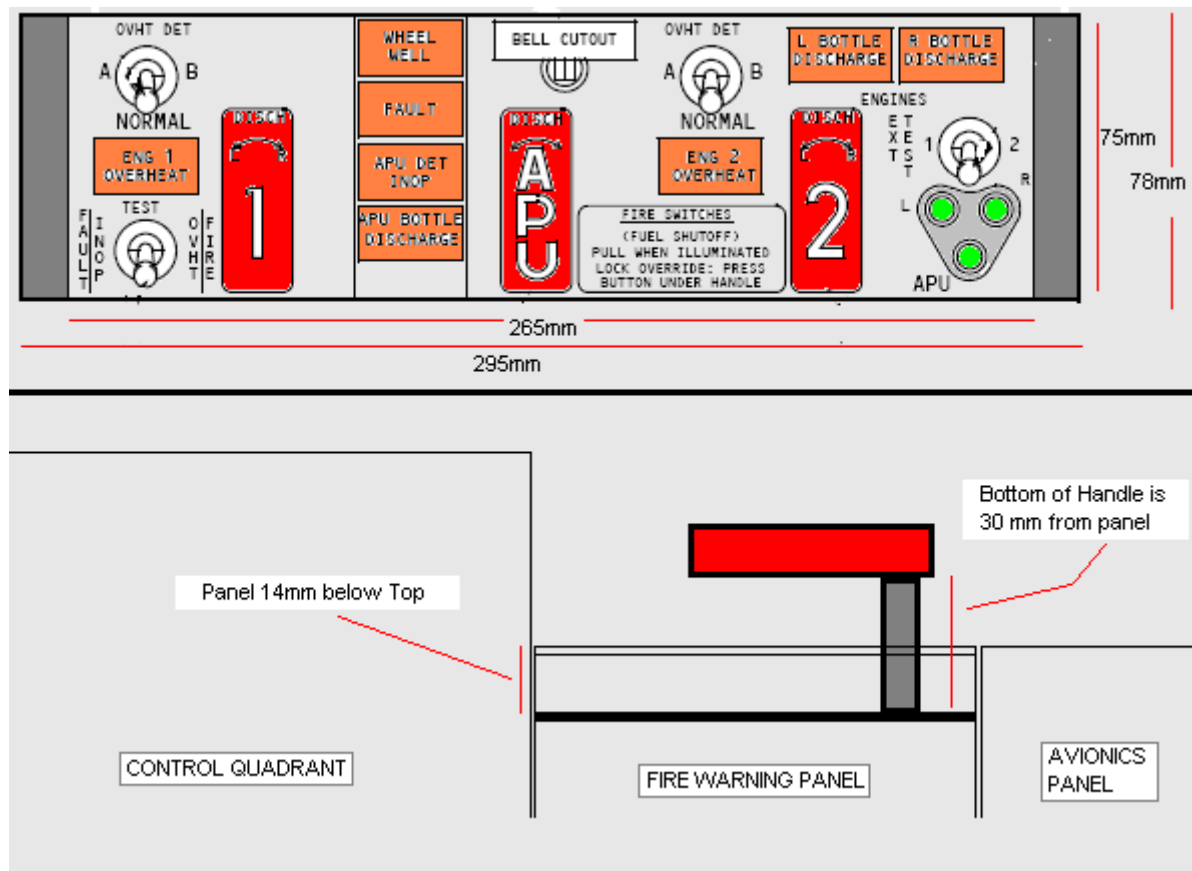


FMC-CDU CENTRE FORWARD SECTION

FIRE CONTROL PANEL



| FIRE WARNING PANEL DIMENSIONS | |
|--------------------------------------|--|
| • approximate UNIT length mm • | 78 mm |
| Approx Fire Panel length | 75 mm |
| • approximate width mm • | 295 mm for the panel width with space either side of panel |
| • approximate panel width mm • | 265 mm for the Fire Warning Panel width |
| • approximate height mm • | 400 mm for the top edge of the panel frame. |
| _____ • | Panel is 14 mm below the top edge of the panel frame. |

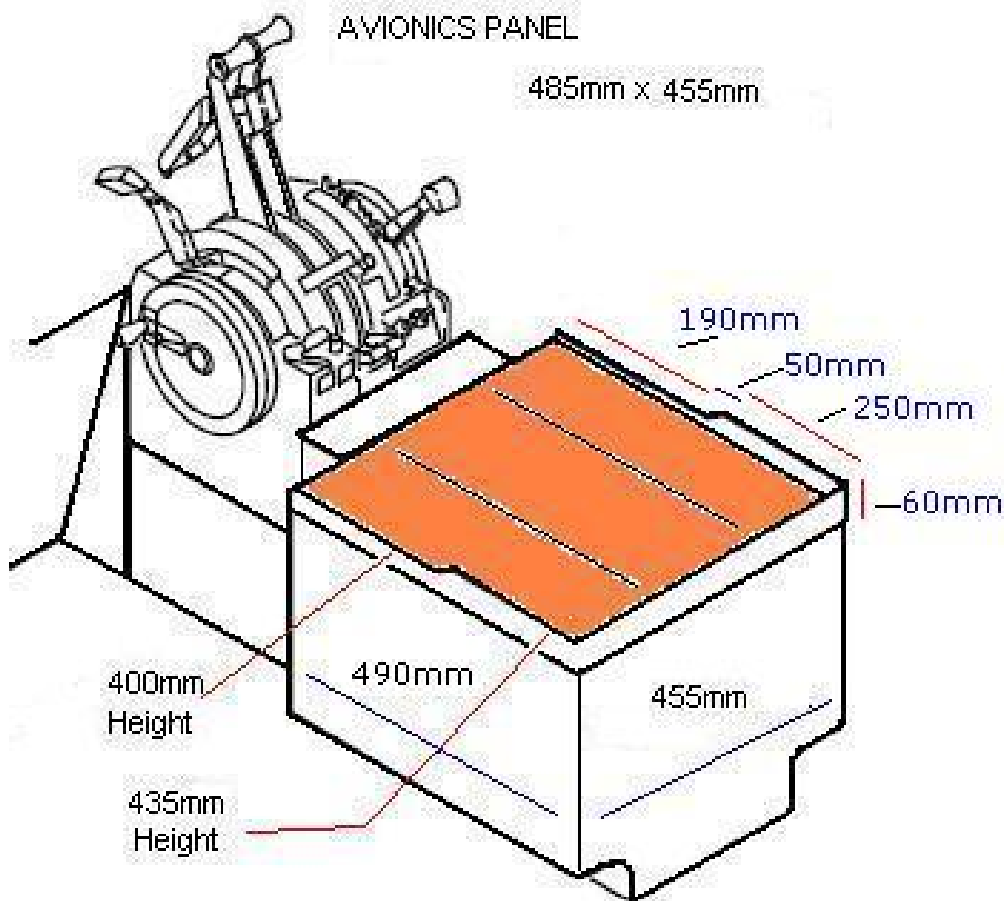


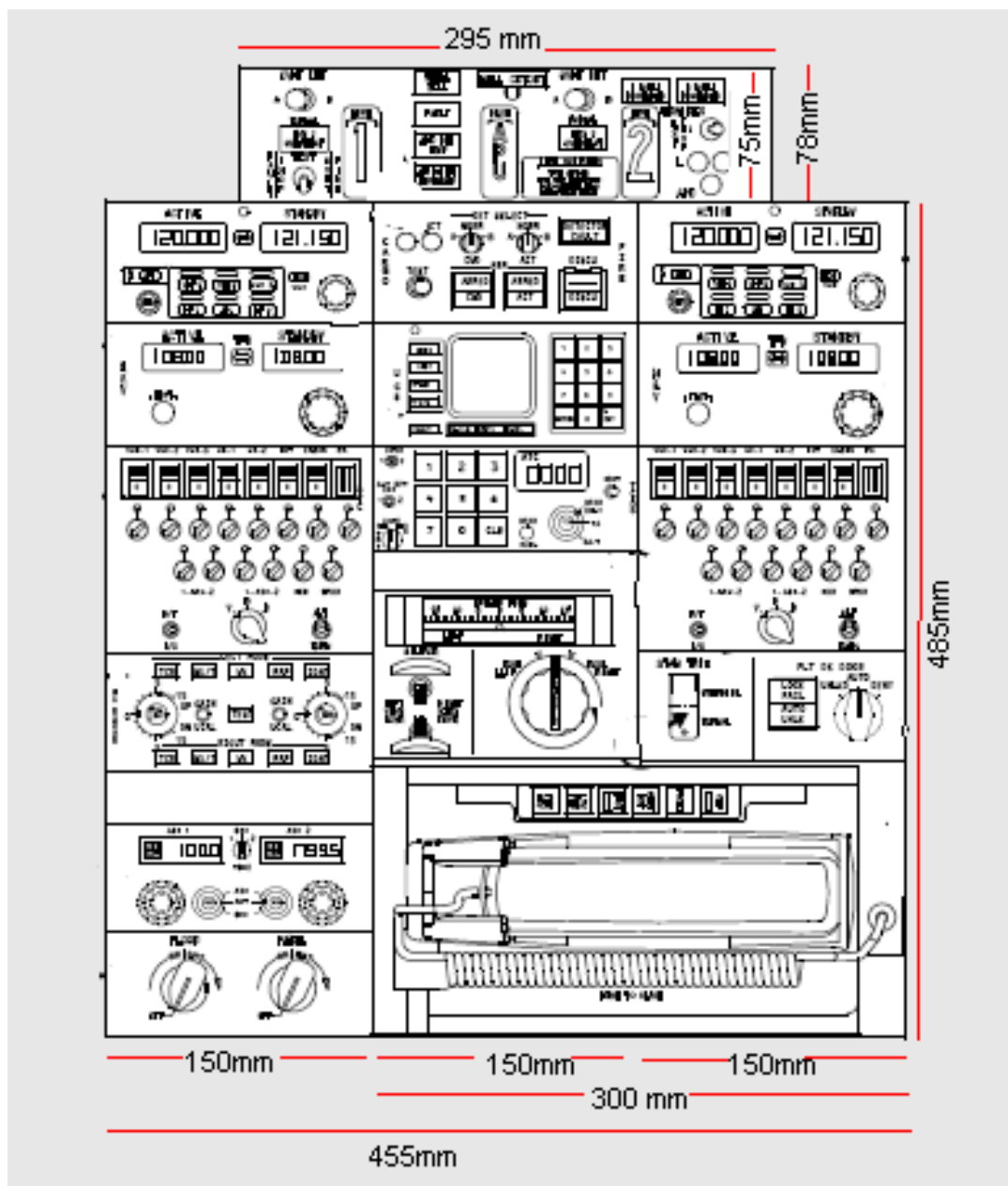
FIRE WARNING PANEL POSITION in the FLIGHT DECK

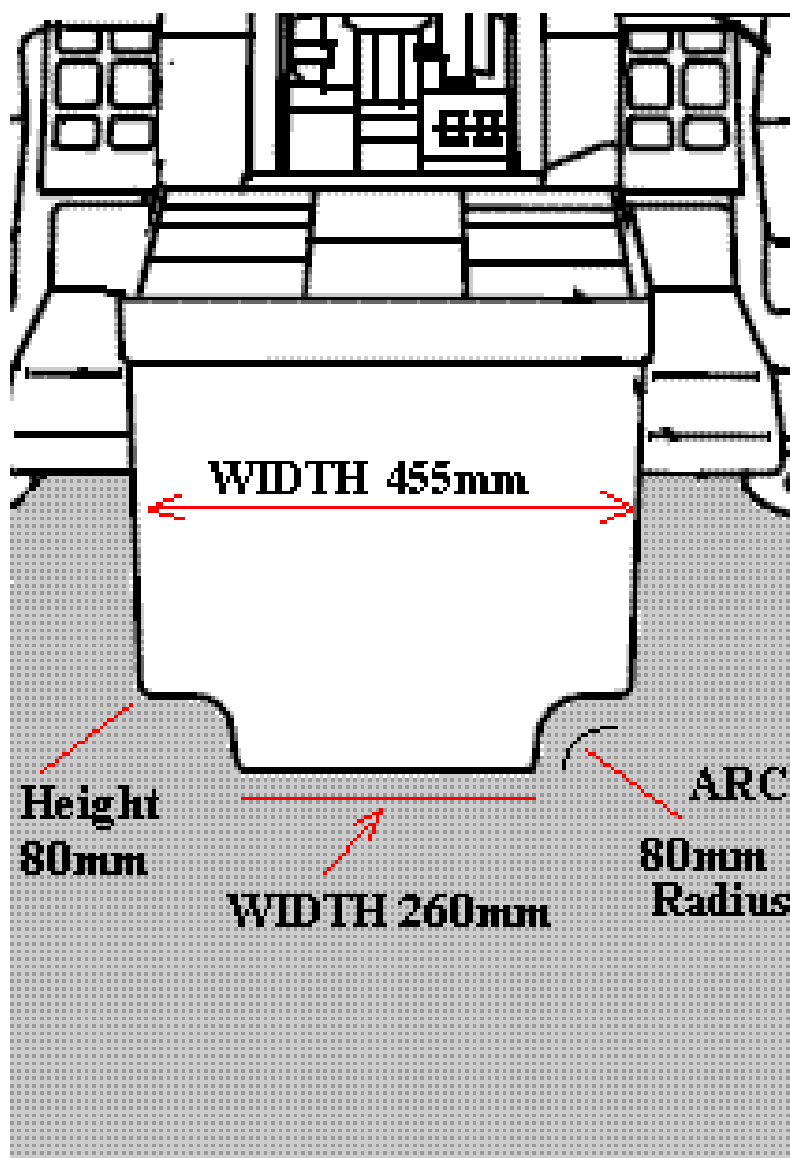
Position of Forward Edge = 515 mm from Main Instrument Panel

AVIONICS PANEL

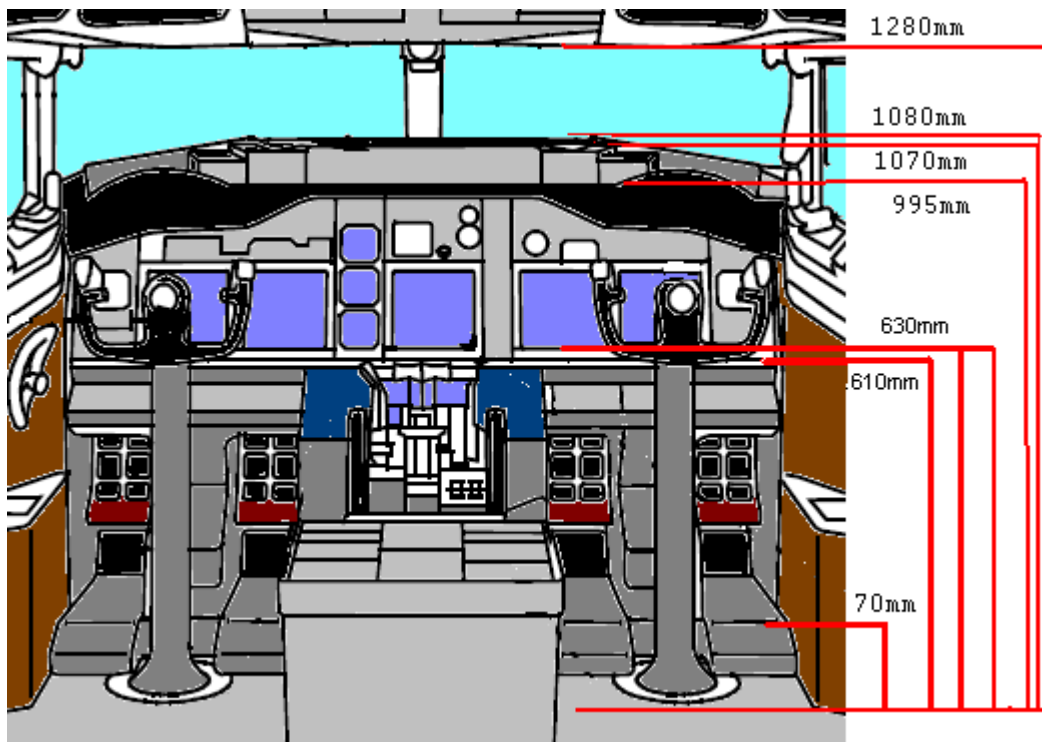
| AVIONICS PANEL DIMENSIONS | |
|---|--|
| • approximate length mm | • 485 mm internal panel measurement |
| • approximate length mm • | 490 mm external - end to end measurement |
| (Panel Lengths 475mm plus 7mm space at fwd edge and about 3 mm at aft edge = 485mm) | |
| • approximate width mm • | 455 mm |
| (Panels 147mm wide. 3x147 = 441 plus gap between panels = 450 to 455mm) | |
| • approximate height mm • | 400 mm fwd edge / 435 mm aft edge. |
| (Raised edge proceeds forward until the volume controls on the AudioSelectPanel and then reduces to Panel level height.) | |

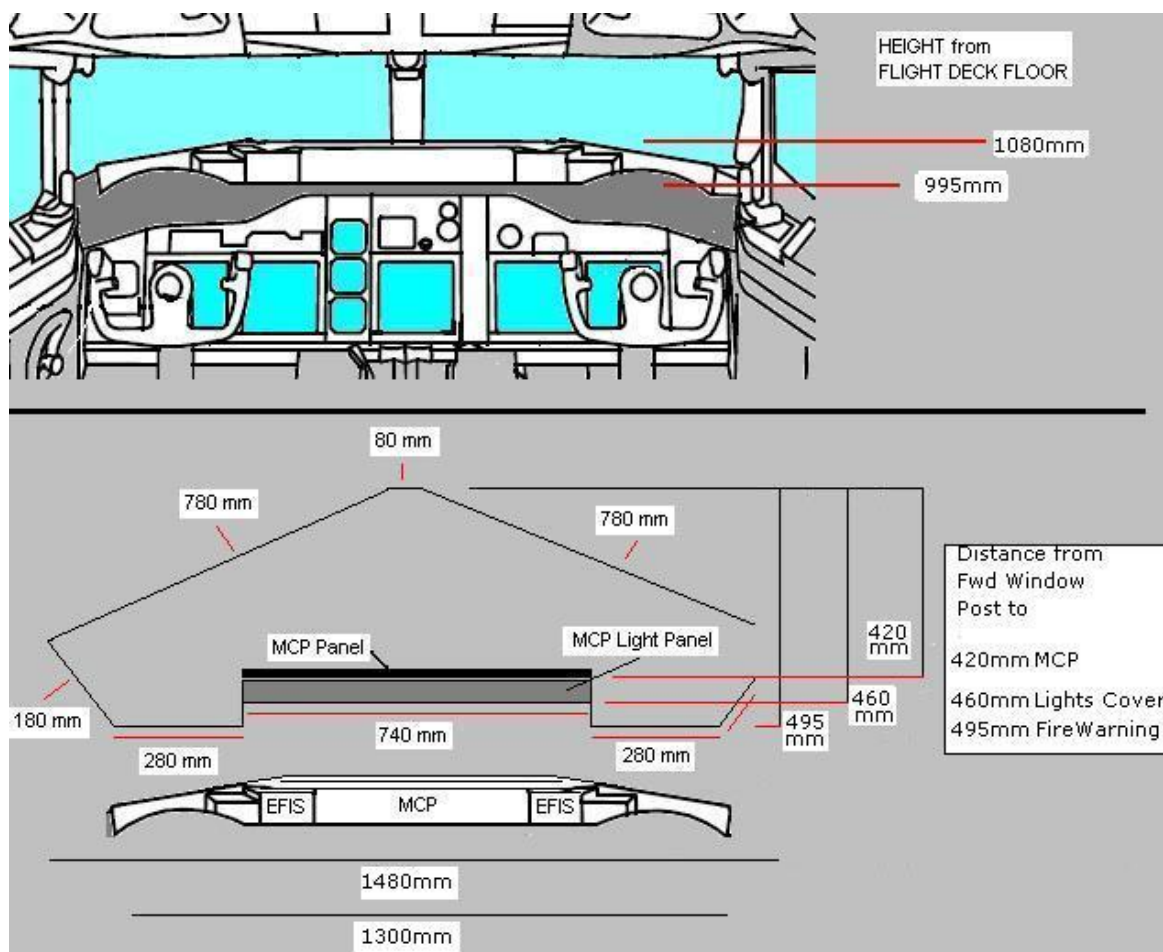




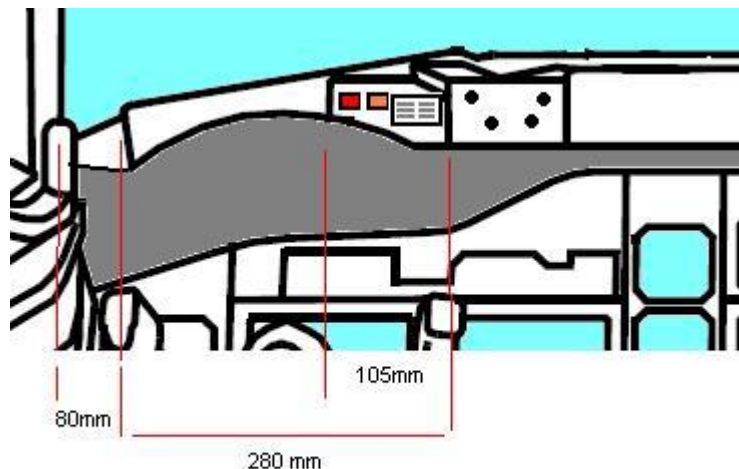


GLARESHIELD PANEL

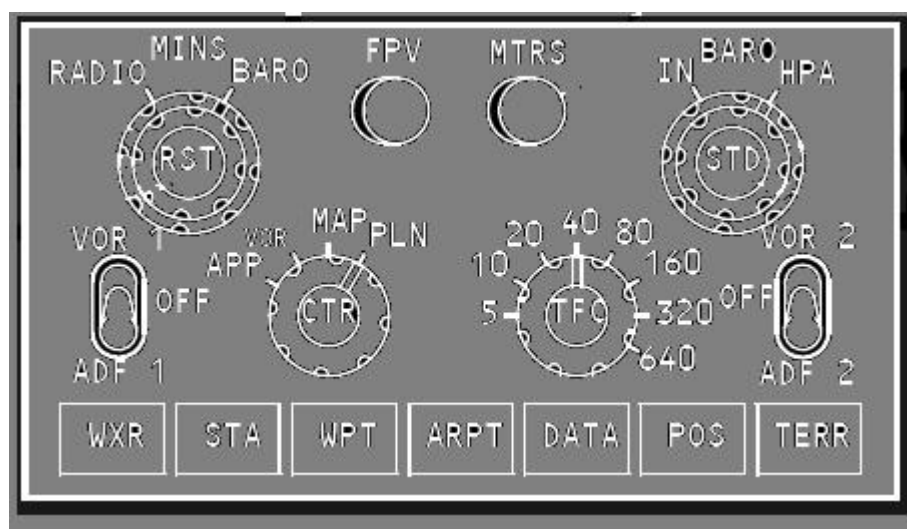
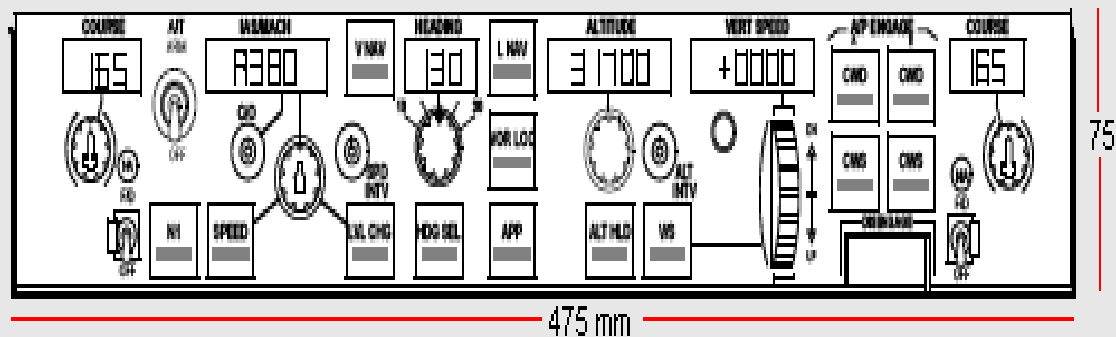




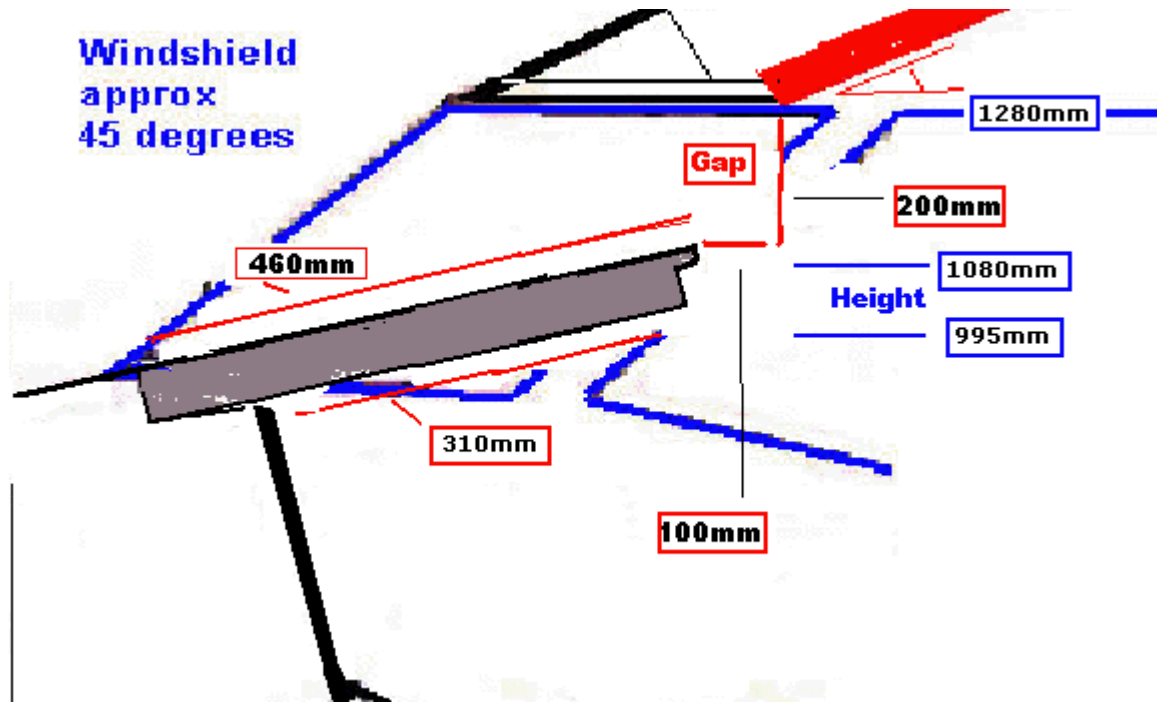
| GLARESHIELD DIMENSIONS | |
|--|--|
| __ WARNING LIGHTS / SYSTEM CAUTION / EFIS PANEL / MODE CONTROL PANEL | |
| • approximate depth mm | • __495 / 460 / 420 mm |
| • approximate width mm | • __80 mm across the back of the unit (near forward window post) |
| • approximate width mm | • 1480 mm across the middle of the unit (between window post) |
| • approximate width mm | • 1300 mm across the front of the unit (at the front of the glareshield) |
| • approximate height mm | • 85 mm __ (75mm for MCP panel + 10 mm for light panel) |



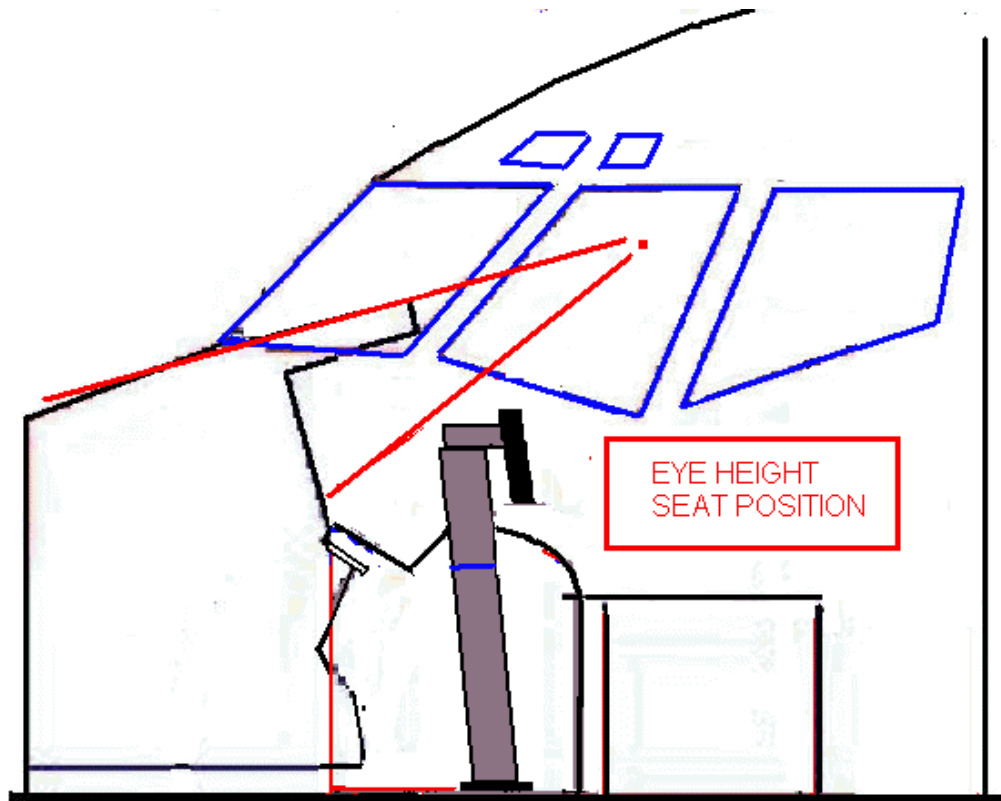
GLARESHIELD & WARNING / CAUTION SYSTEM

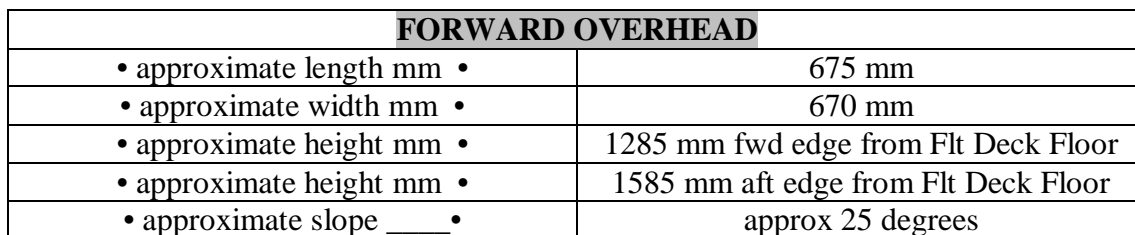


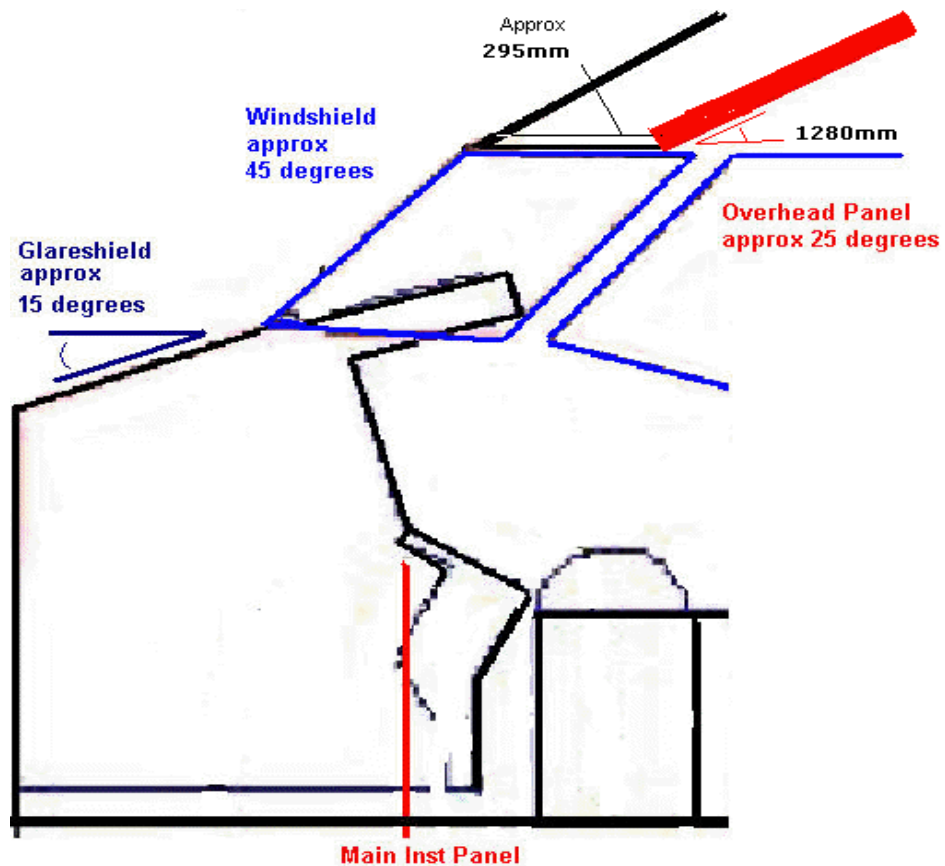
EFIS 115mm x 62mm



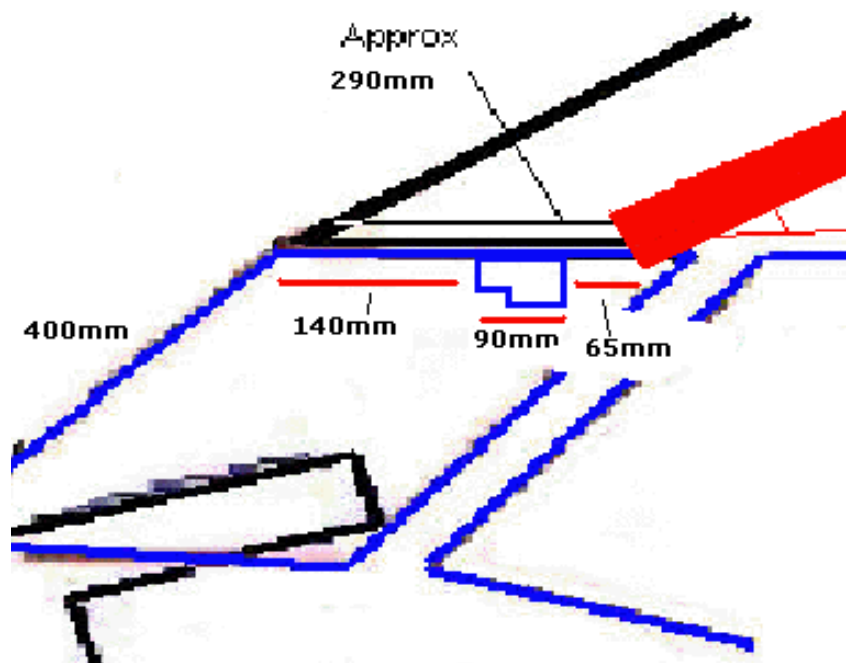
Glareshield = 310mm aft of Main Inst Panel

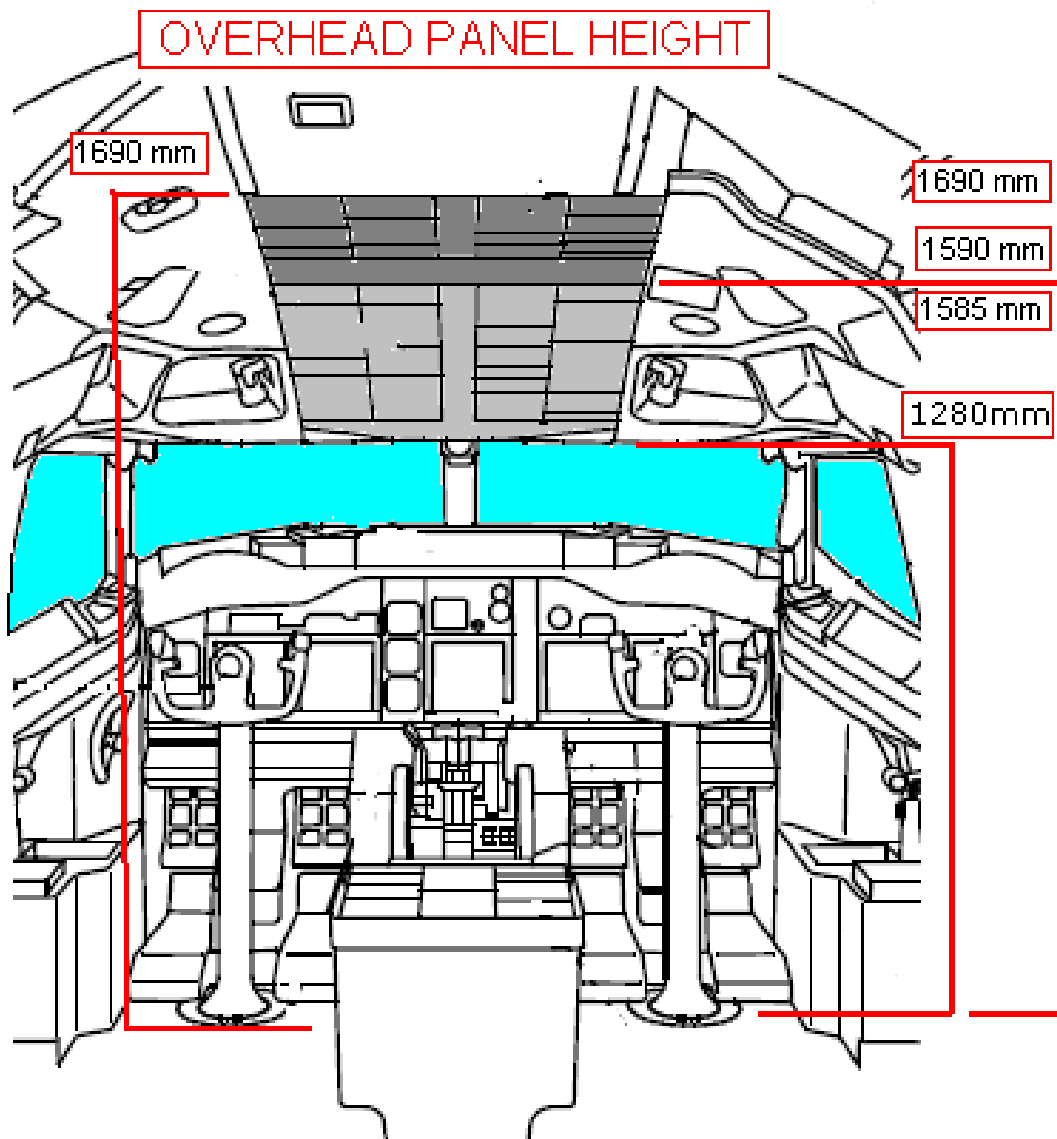






FORWARD OVERHEAD @ 25 DEGREE SLOPE





OVERHEAD HEIGHT

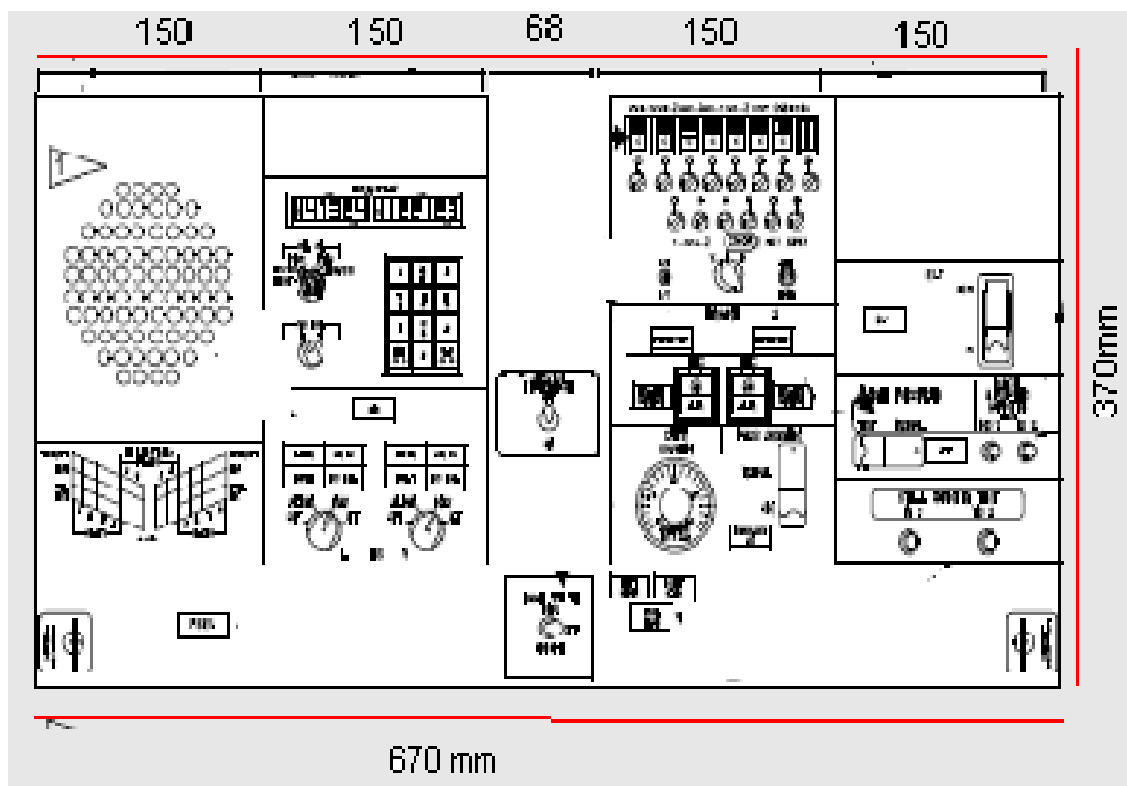
FWD HEIGHT = 1280mm

AFT HEIGHT = 1585 mm

| • Approximate Panel Position | |
|--------------------------------------|---|
| • lower forward edge of panel is | • 100mm aft of the MCP panel. |
| • lower forward edge of the panel is | • if you draw a line along the light switches, the line intersects the top rear corner of the number one window |

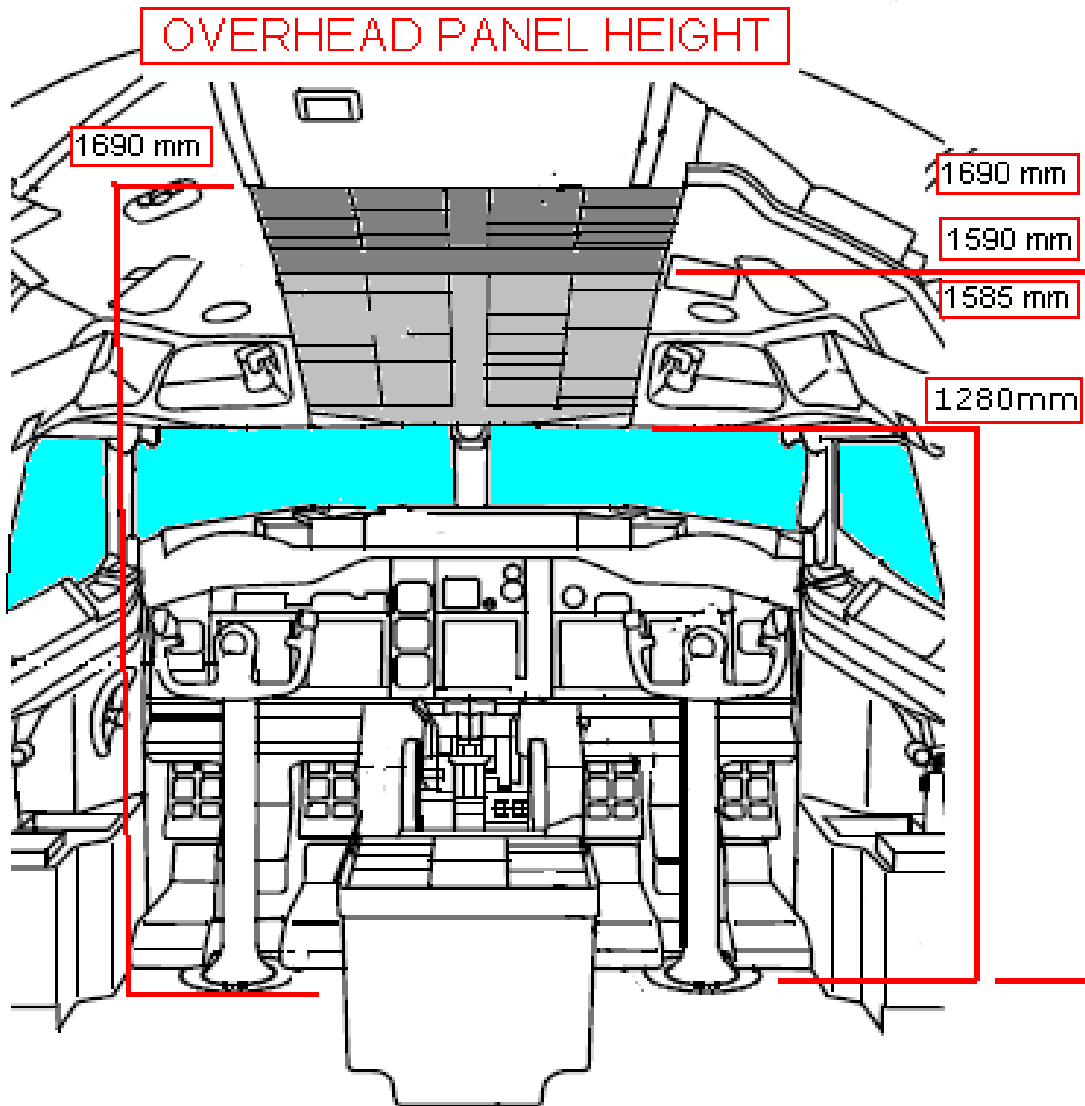


AFT OVERHEAD PANEL

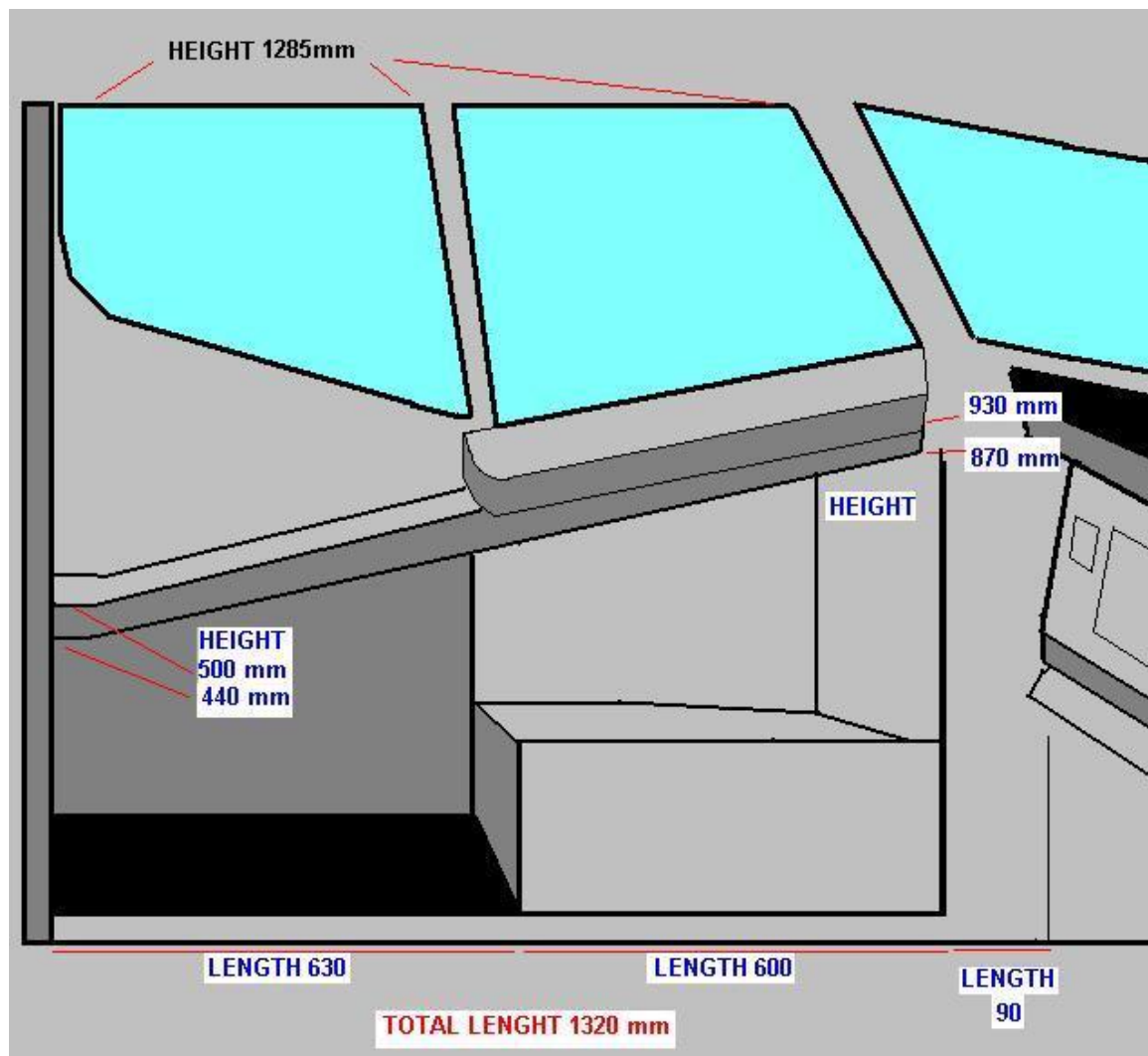


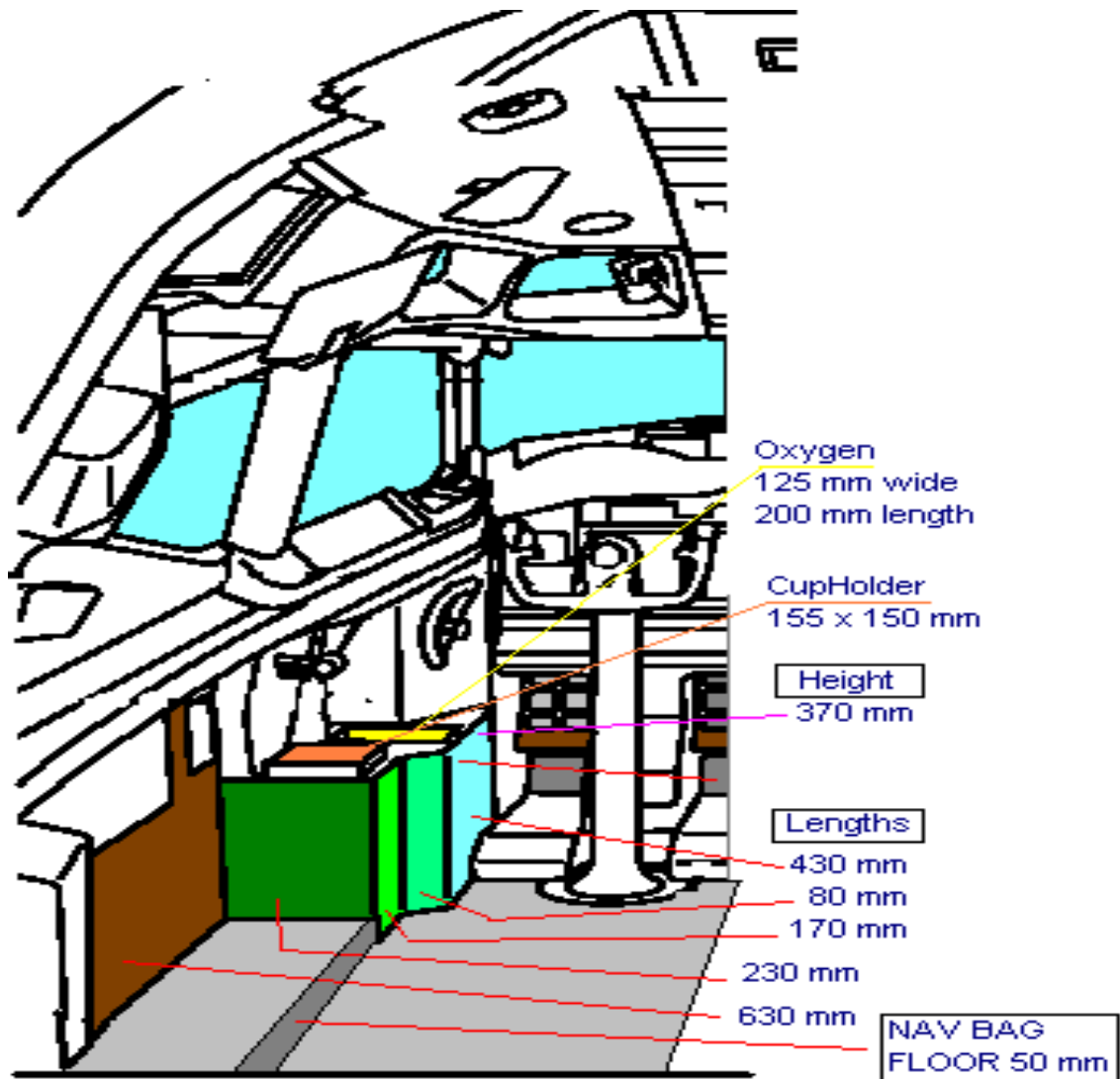
AFT OVERHEAD

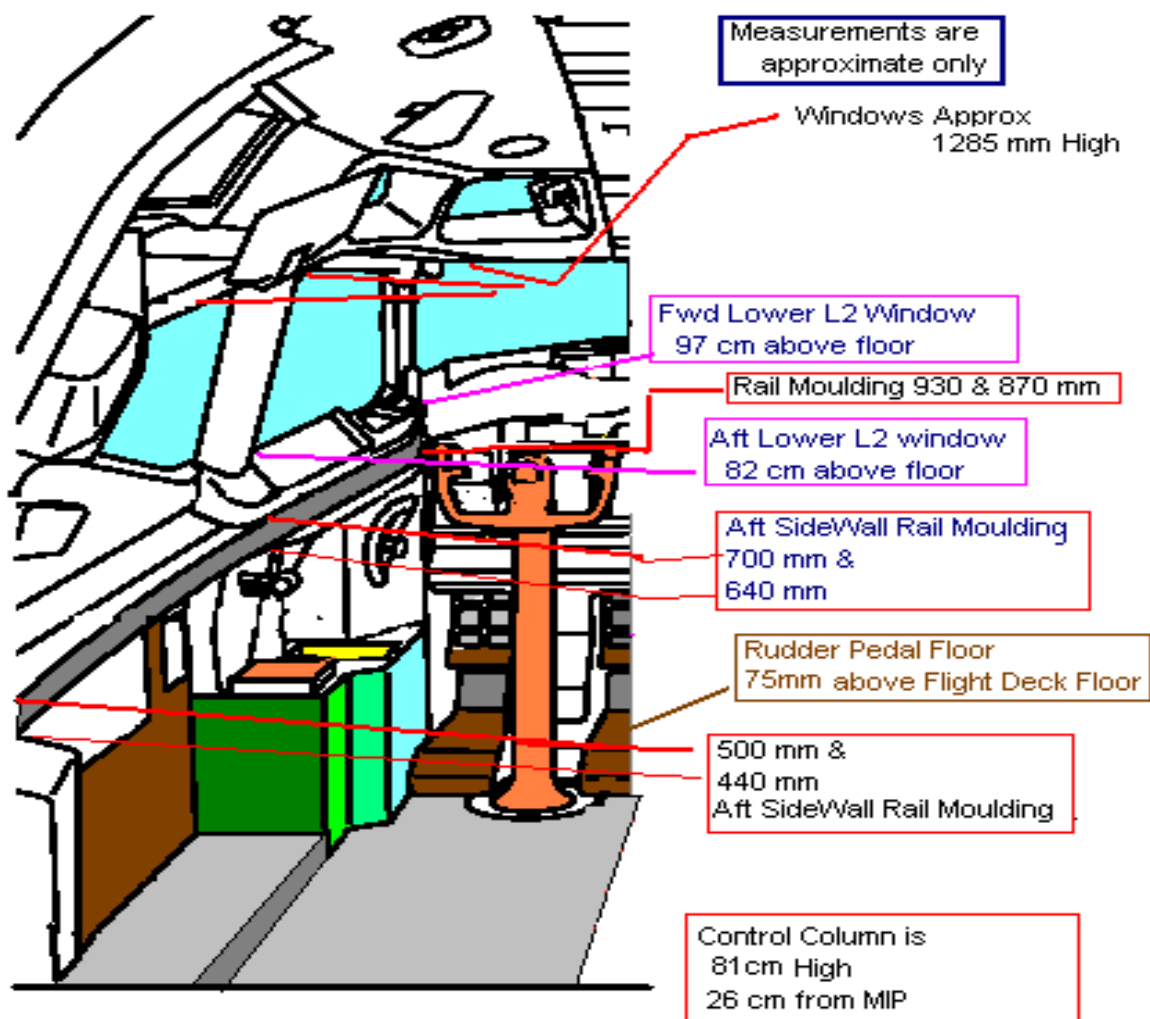
| | |
|-----------------------------|--|
| • approximate length mm | • 370 mm |
| • approximate width mm | • 670 mm |
| • approximate height mm | • 1590 mm fwd edge from Flt Deck Floor |
| • approximate height mm | • 1690 mm aft edge from Flt Deck Floor |
| • approximate slope ____ | • approx 17 1/2 degrees |
| • approximate position ____ | • top / aft edge of panel is level with aft bulkhead wall. |



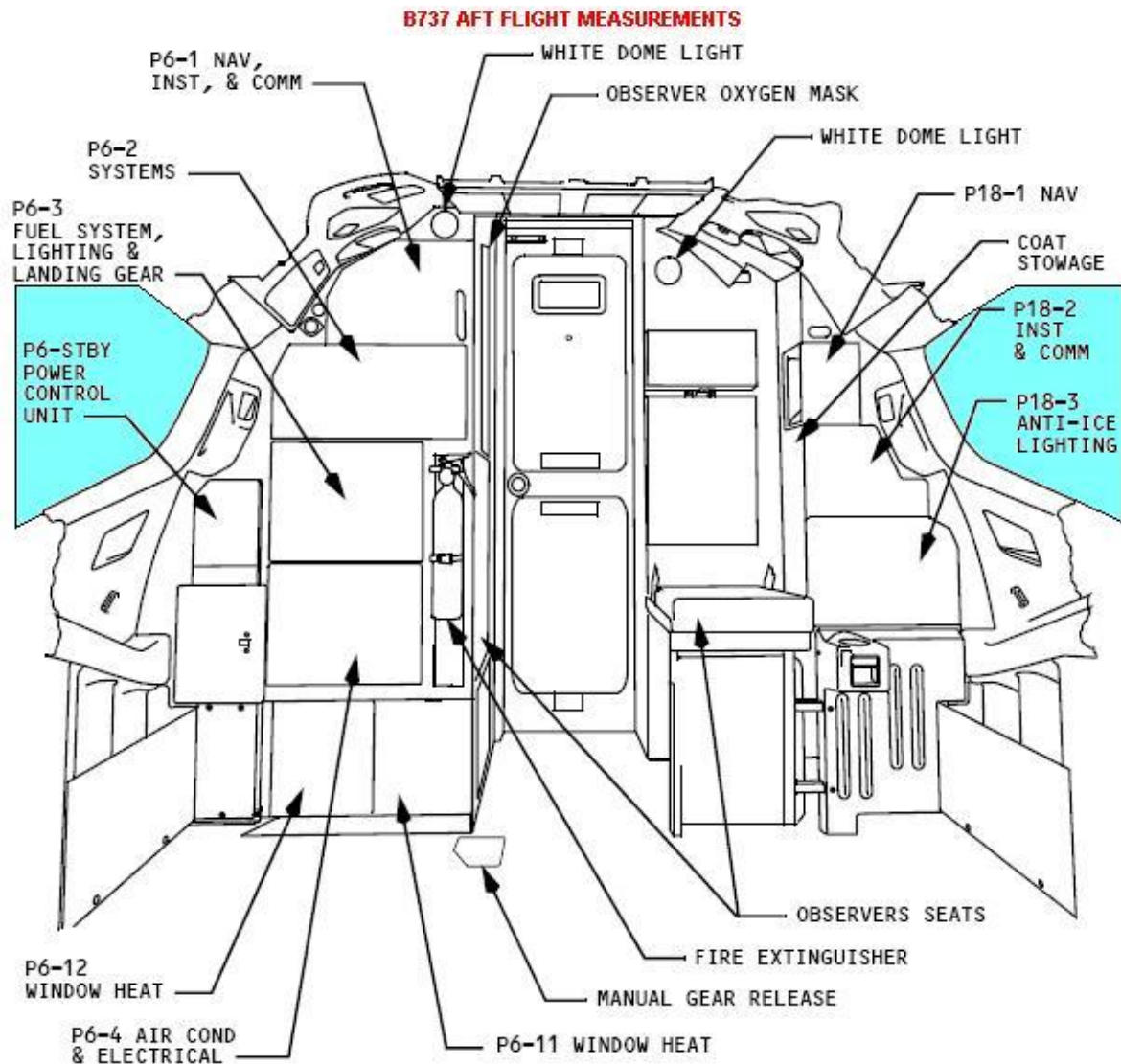
SIDEWALL PANELS







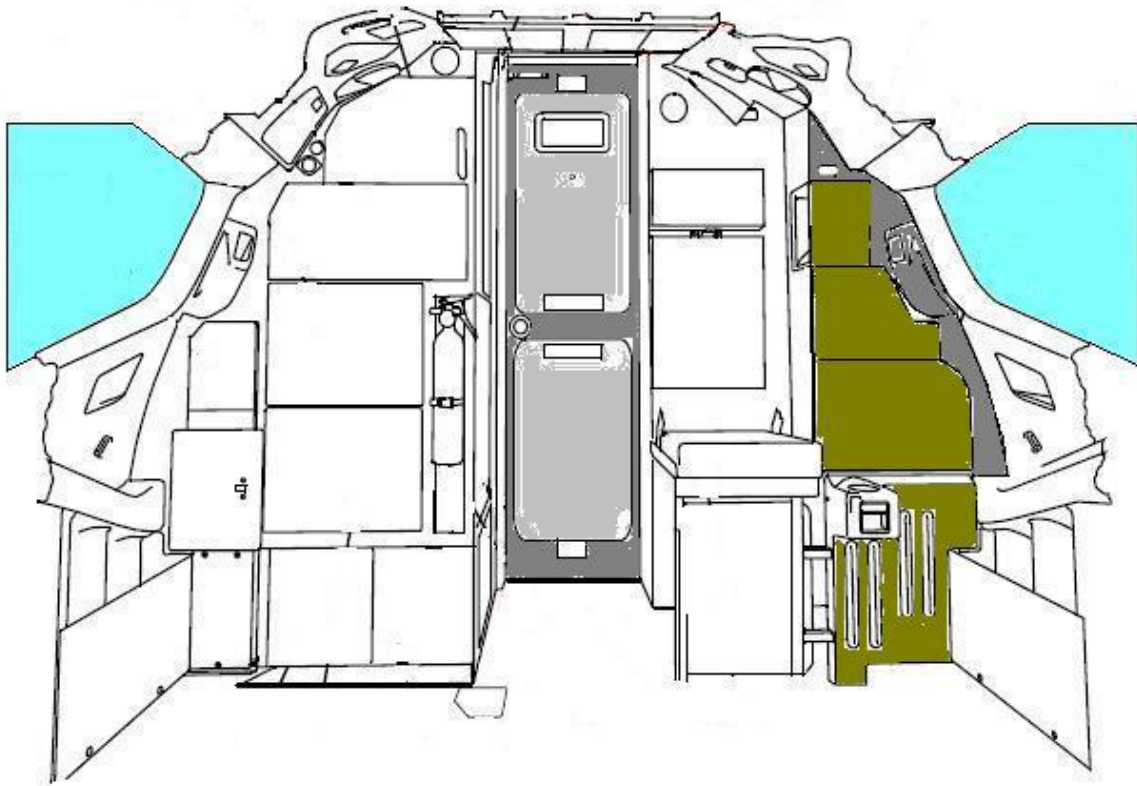
CIRCUIT BREAKERS



AFT FLIGHT DECK OVERVIEW

B737 AFT FLIGHT MEASUREMENTS

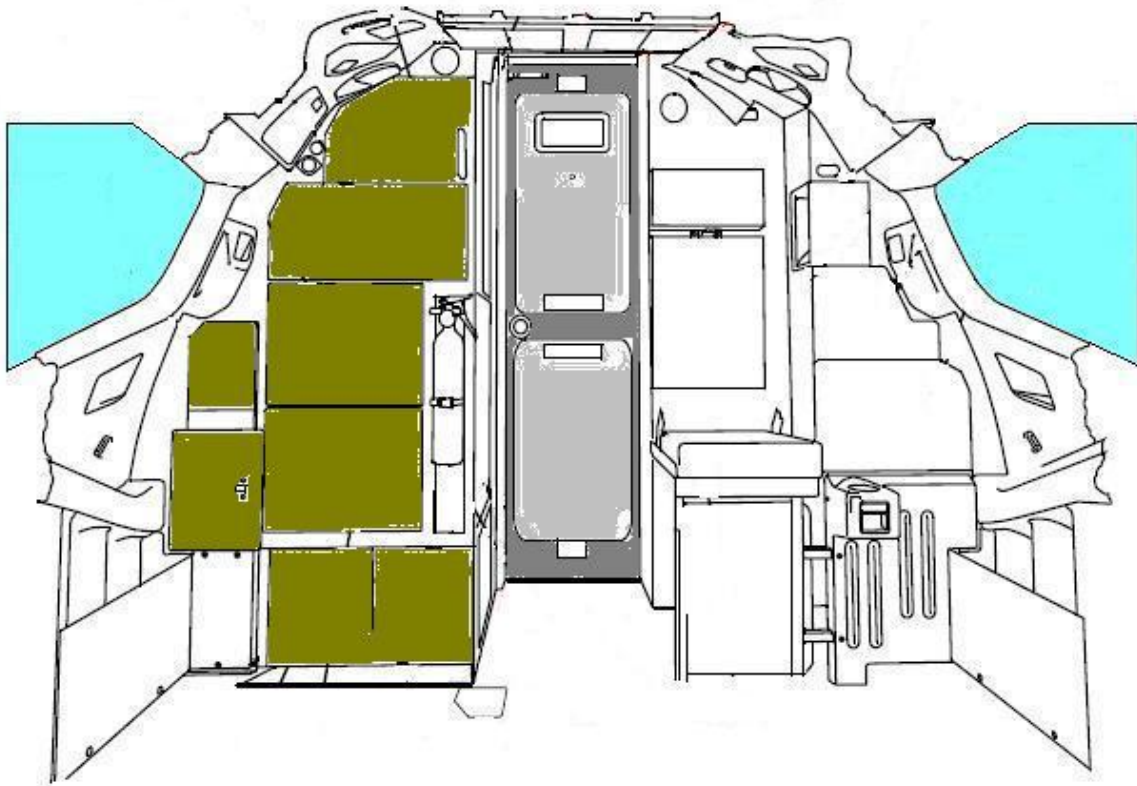
P18 PANEL



AFT FLIGHT DECK OVERVIEW

B737 AFT FLIGHT MEASUREMENTS

P6 PANELS



AFT FLIGHT DECK OVERVIEW

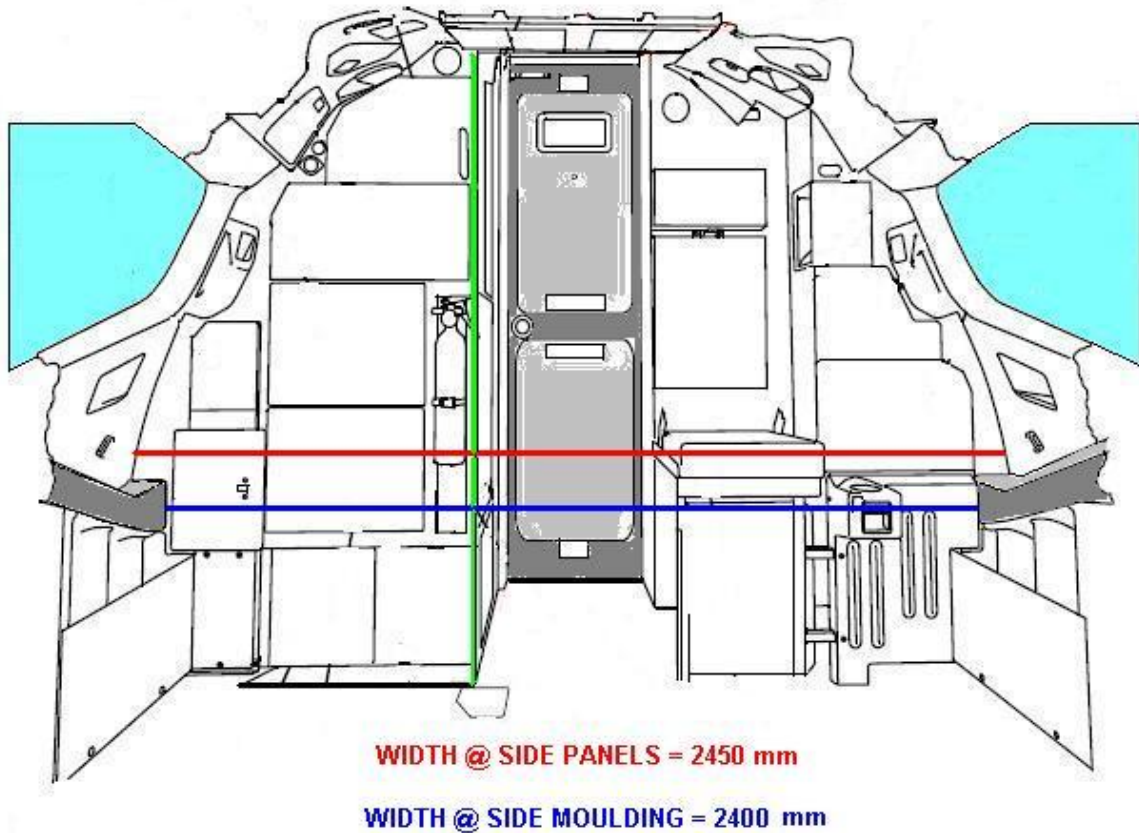
REAR BULKHEAD

approximate width mm • 2400 mm (Circuit Breaker Panels)
approximate width mm • 2450 mm (Sidewall of Fuselage)

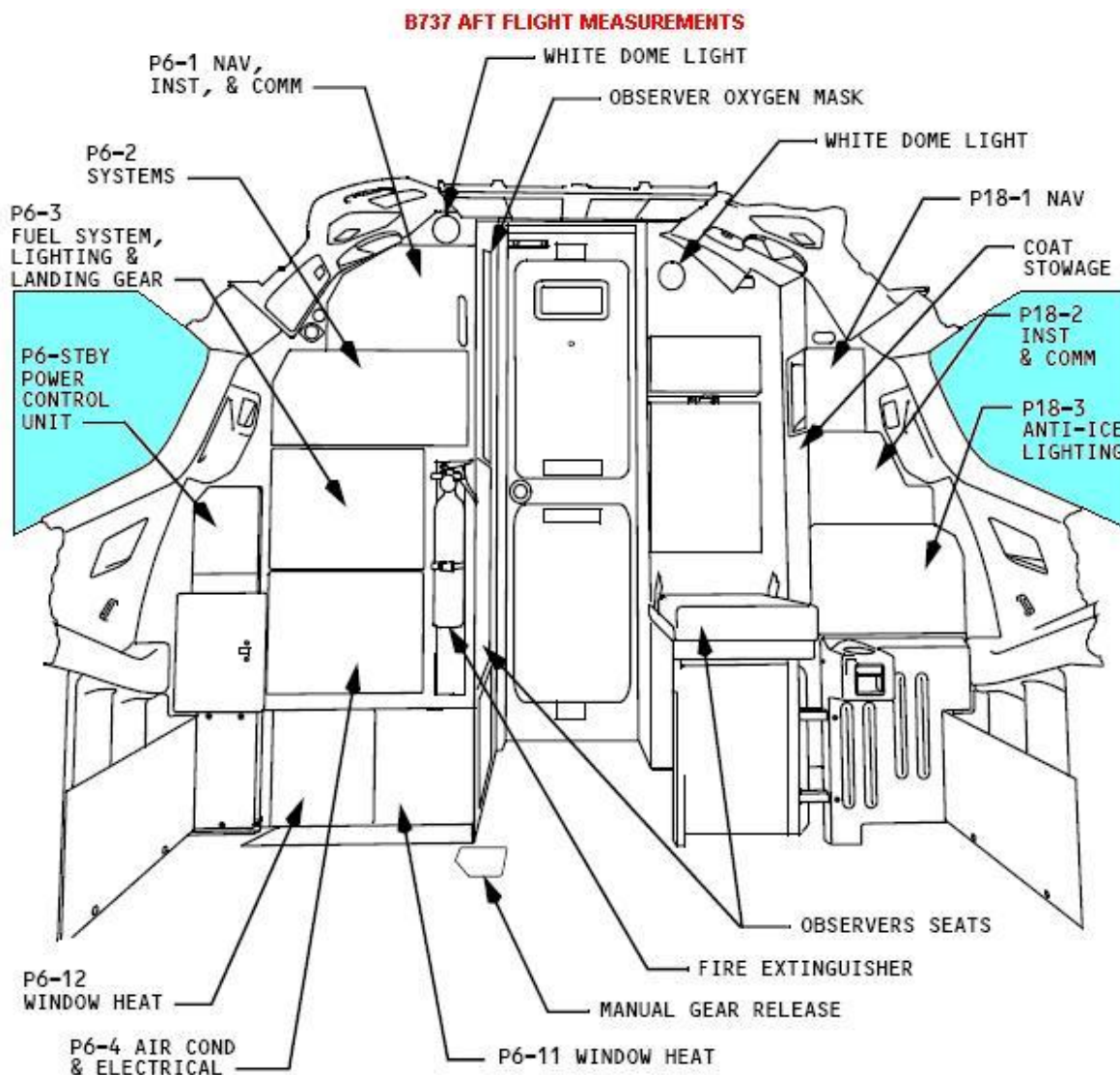
approximate height mm • 1690 mm (Top of Overhead Panel)
approximate height mm • 1890 mm (Top of Flt Deck Door)

B737 AFT FLIGHT MEASUREMENTS

HEIGHT @ REAR BULKHEAD = 1690 mm



AFT FLIGHT DECK OVERVIEW



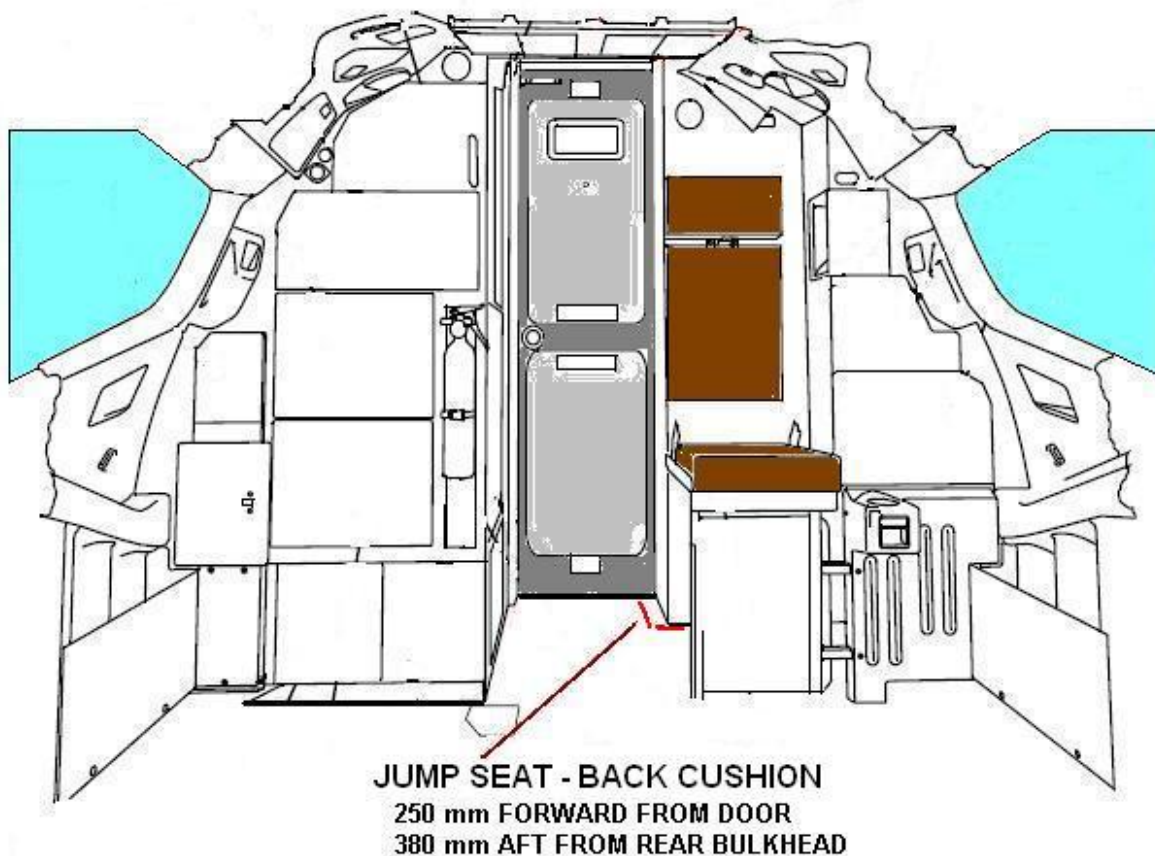
AFT FLIGHT DECK OVERVIEW

| FLIGHT DECK DOOR | |
|-------------------------|----------------------|
| • 560 mm | • width |
| • 1890 mm | • height |
| • 630 mm aft | • from read bulkhead |

THE JUMP SEAT

B737 AFT FLIGHT MEASUREMENTS

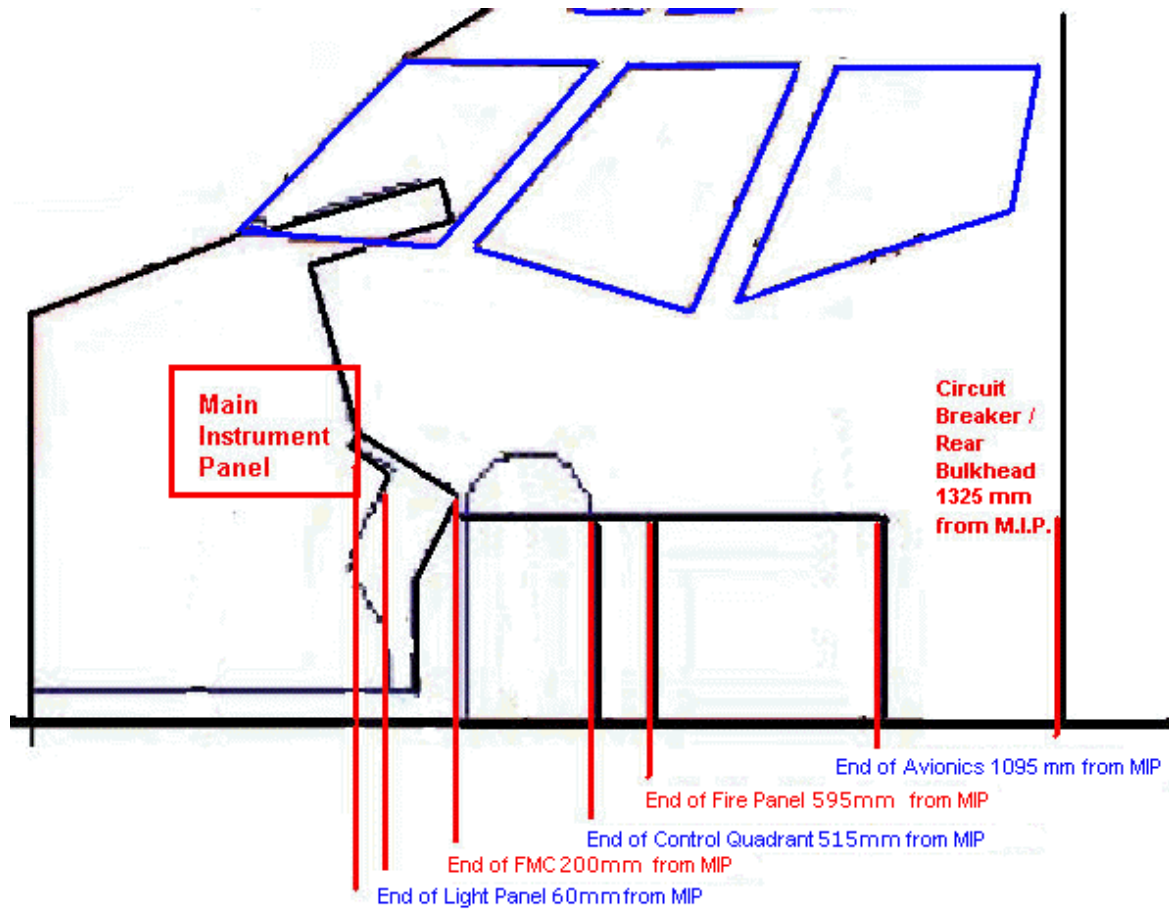
JUMP SEAT 600 mm HEIGHT FROM FLOOR
410 mm WIDTH
420 mm LENGTH



AFT FLIGHT DECK OVERVIEW

| THE JUMP SEAT | |
|--------------------------|------------|
| 60 mm | Height |
| 410 mm | Wide |
| 420 mm | Long |
| 250 mm forward from door | - backrest |
| 380 mm from aft bulhead | - backrest |

AFT BULKHEAD 1325mm from MAIN INST PANEL

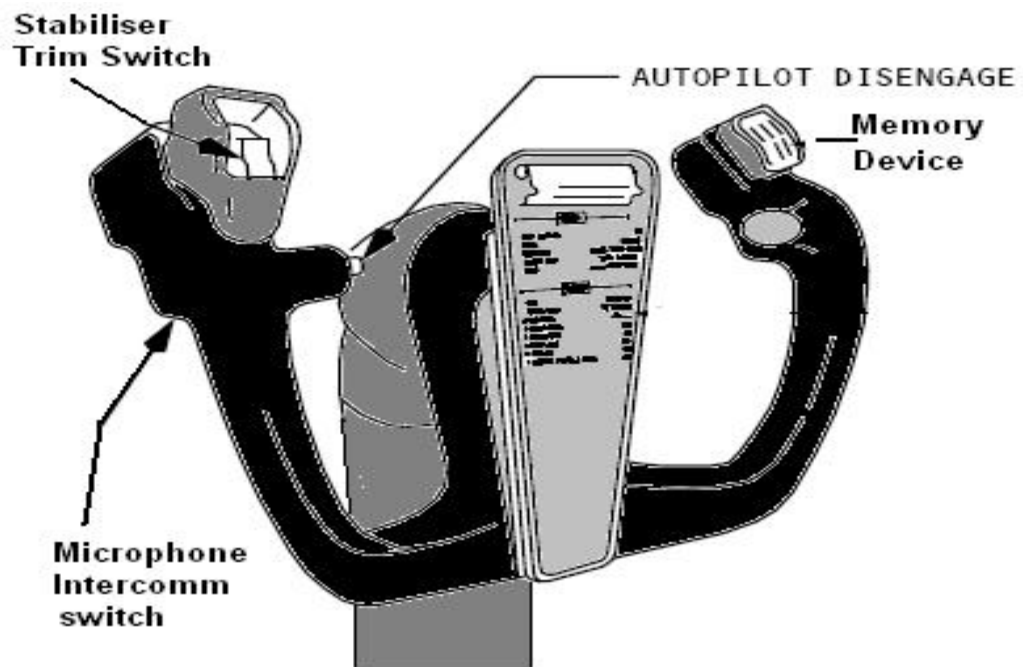


| AFT BULKHEAD POSITION | |
|-----------------------------|---|
| Position of Aft Bulkhead = | 1320 mm from Main Instrument Panel (measured from lower edge of MIP) |
| Position of Aft Bulkhead = | 0 mm mm from Aft Wall Bulkhead |
| Position of Flt Deck Door = | 630 mm Aft of Aft Wall Bulkhead |

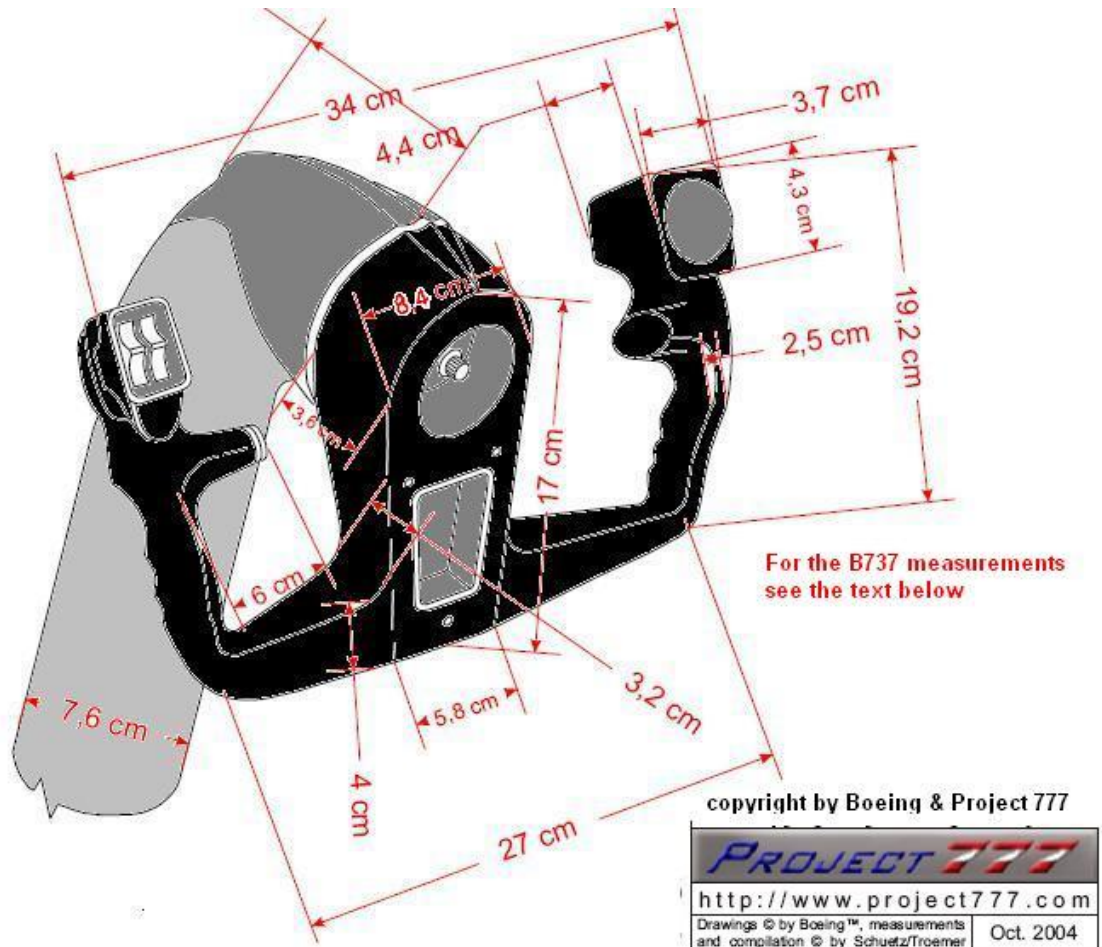
FLIGHT CONTROLS

- CONTROL YOKE
- CONTROL COLUMN
- RUDDER PEDALS
- SPEEDBRAKE LEVER
 - THRUST LEVER
 - FLAP LEVER
 - START LEVERS
- STABILISER TRIM WHEEL

CONTROL YOKE



CAPTAIN CONTROL WHEEL DETAIL

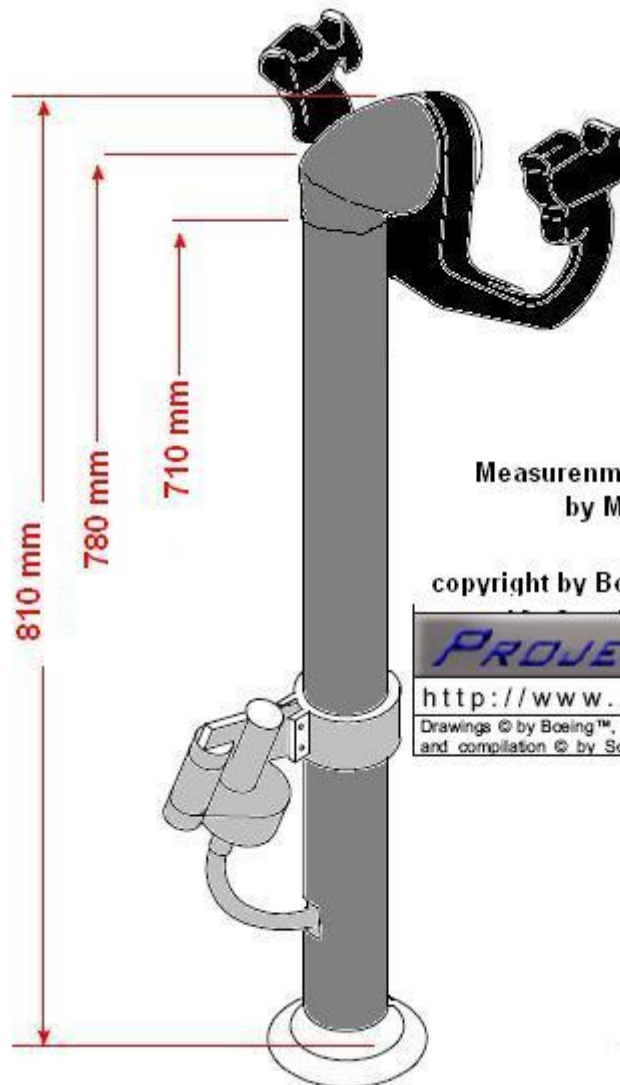


GENERAL JET or BOEING STYLE CONTROL COLUMN

CONTROL YOKE DATA

| DATA for BOEING 737 TYPE CONTROL YOKE | |
|--|------------------------|
| Width at Top of Yoke | 345 mm |
| Width at Bottom of Yoke | 260 mm |
| Height of Yoke | 195 mm |
| Diameter of Yoke Handle or Thickness of Yoke | 32 - 36 mm |
| Position of AutoPilot Disconnect | 80 mm above lower yoke |
| Length of AutoPilot Disconnect Assemble | 60 mm |
| Width of the ClipBoard at the Top | 95 mm |
| Width of the ClipBoard at the Bottom | 65 mm |
| Length of the ClipBoard | 195 mm |

CONTROL COLUMN

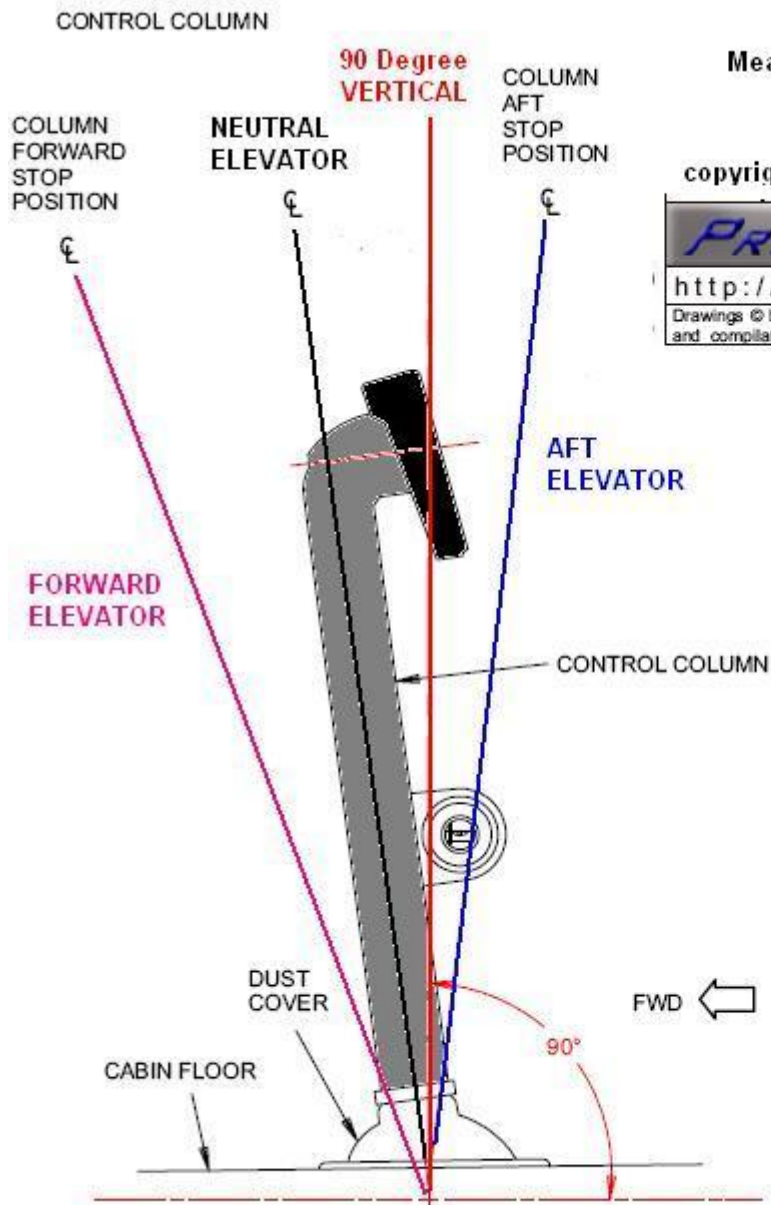


Measurements for the B737
by Markuspilot

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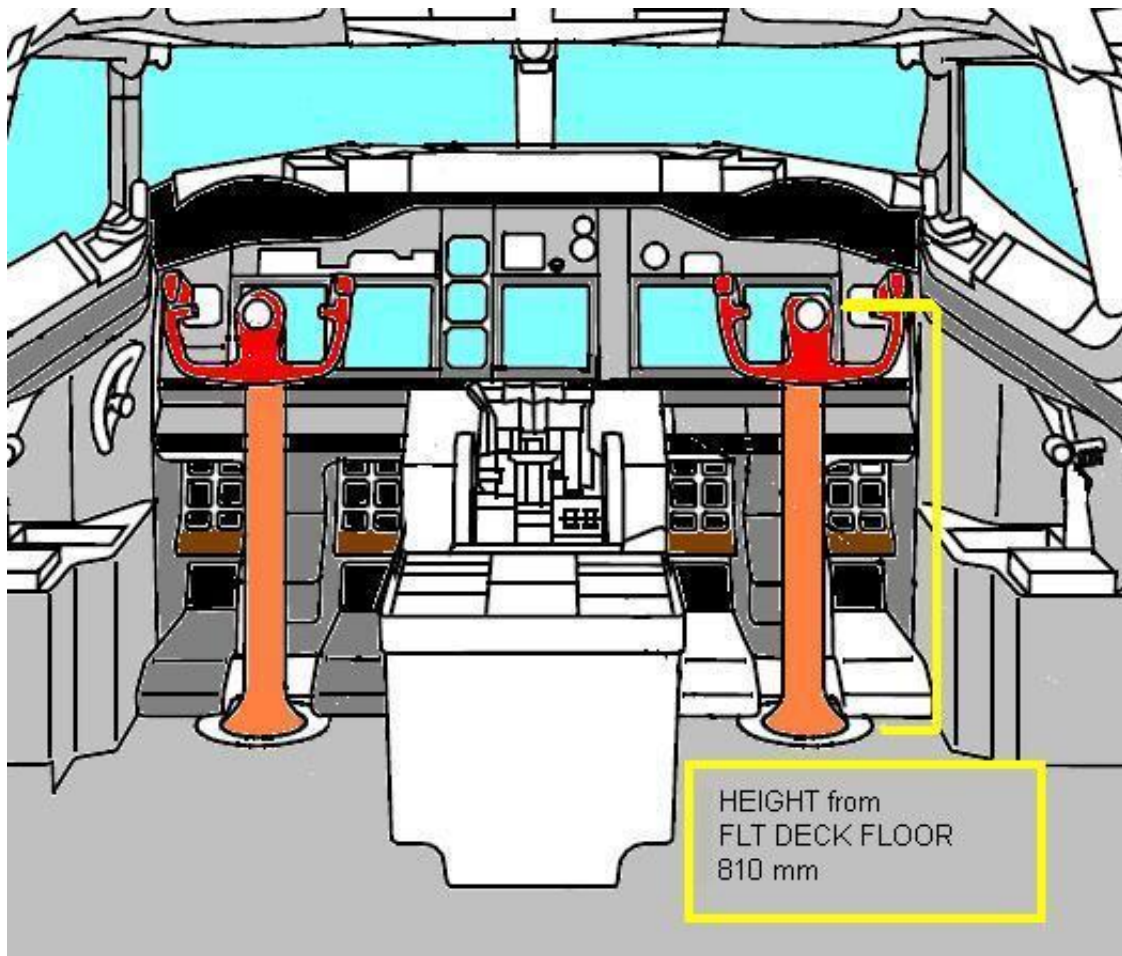
Oct. 2004

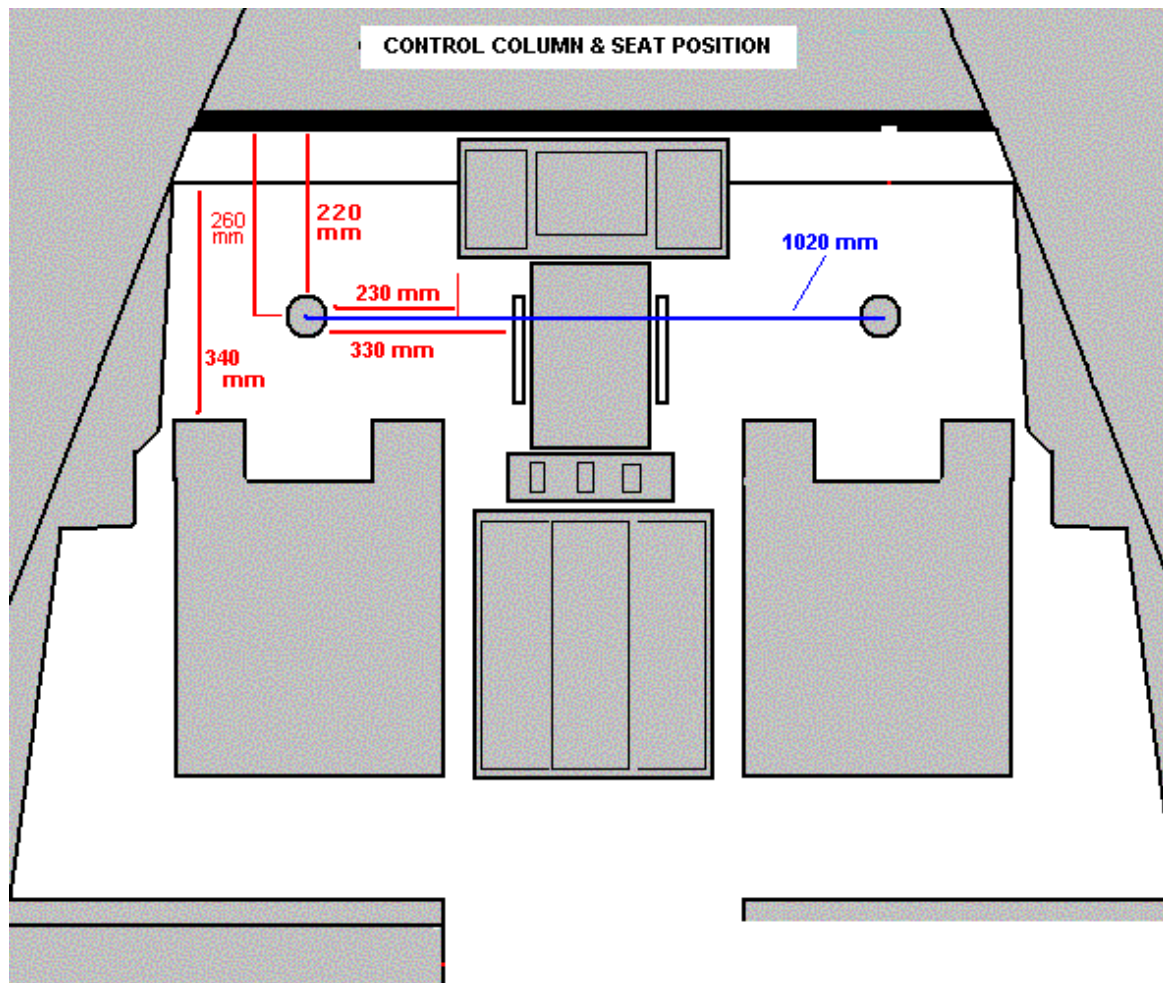


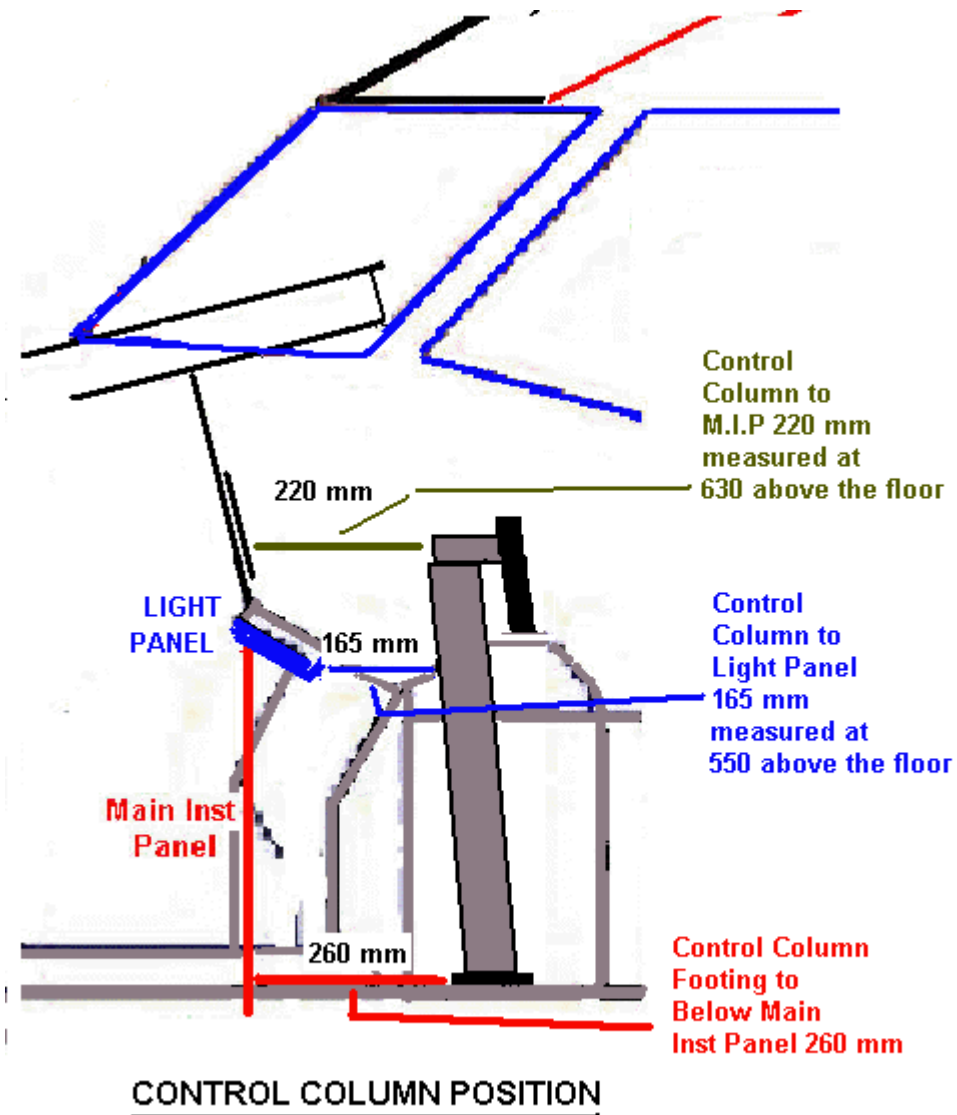
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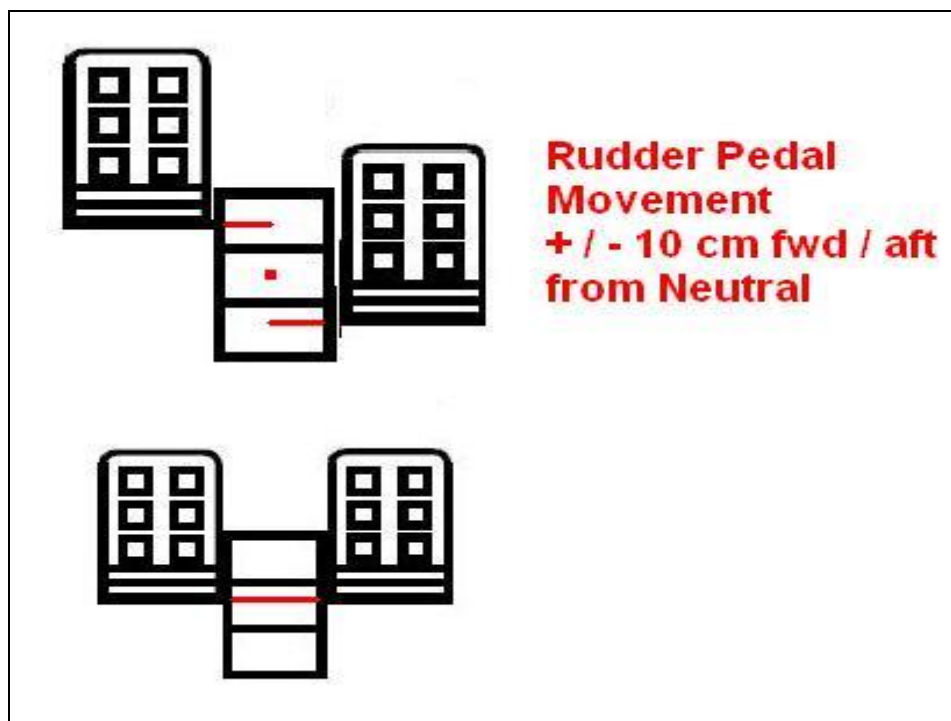
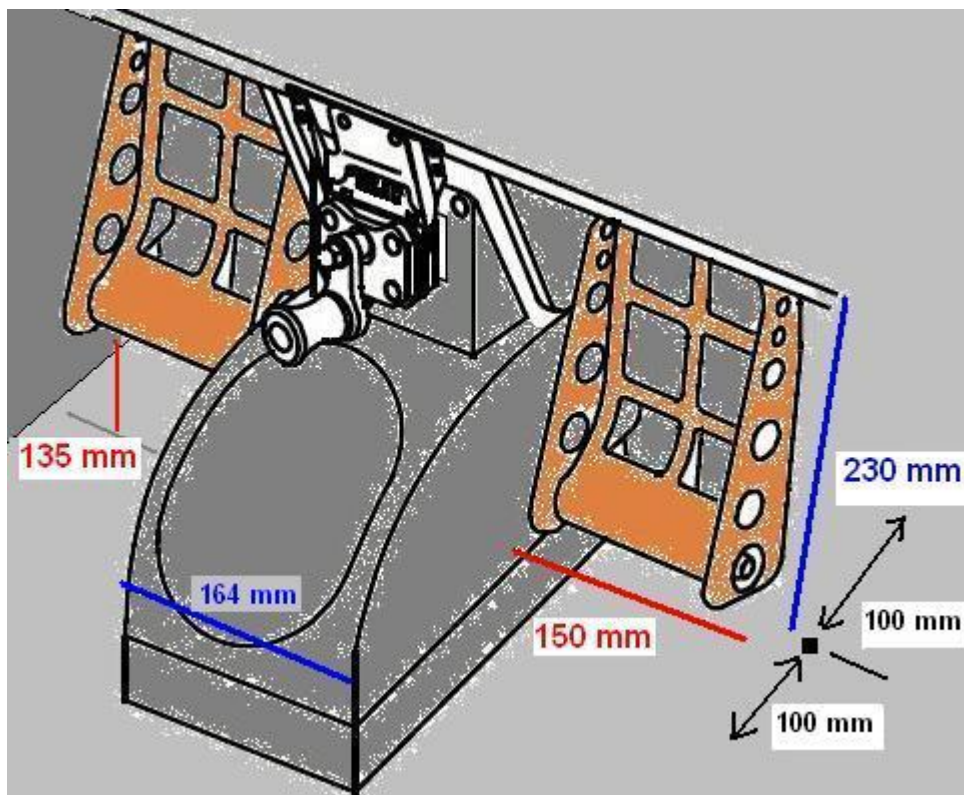
POSITION of CONTROL COLUMN

| | |
|---|---|
| Distance from Light Panel | 165 mm measured at 500 mm height from flight deck floor |
| Distance from Main Inst Panel ____ @ PFD ND lower edge | 220 mm measured at 630 mm height from flight deck floor |
| Distance from Main Inst Panel | 260 mm measured below MIP along floor to base of column |
| Distance from FMC Panel | 230 mm from side of FMC panel |
| Distance from Stab Trim Wheel | 330 mm from side of Stabiliser Trim Wheel |

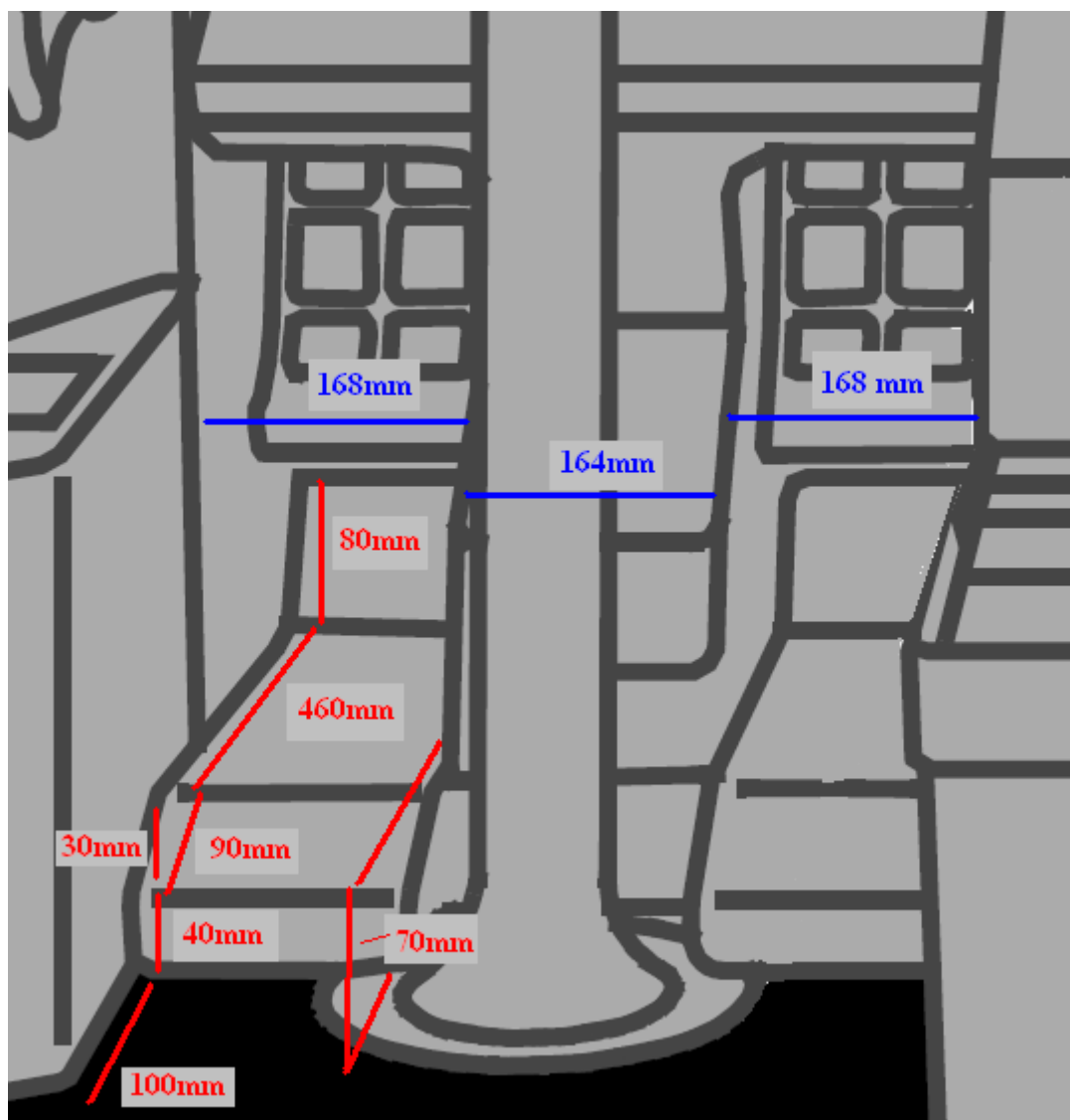
CONTROL COLUMN DATA

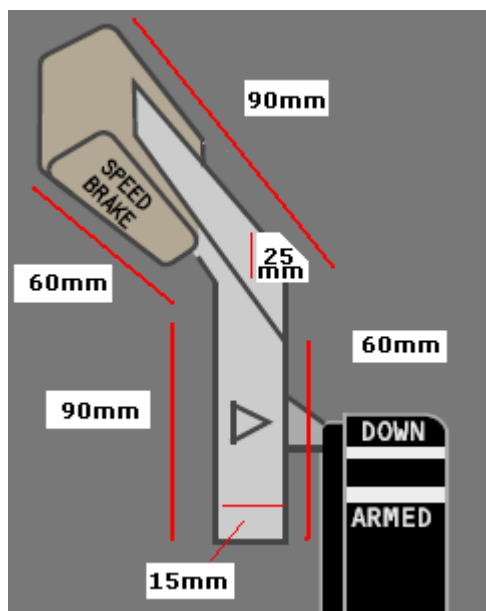
| | |
|---|--|
| Height of Control Column | 790 mm measured at back of Control Column |
| Height of Control Column | 810 mm measured at top of Control Column / Yoke Axis |
| Diameter of Control Column | 80 mm diameter |
| Slope of Control Column in Neutral Elevator Position | approx 10 degrees forward slope |
| Movement of Control Column | approx 10 degrees forward for "down elevator" approx 10 degrees backwards for "up elevator" |

RUDDER PEDALS



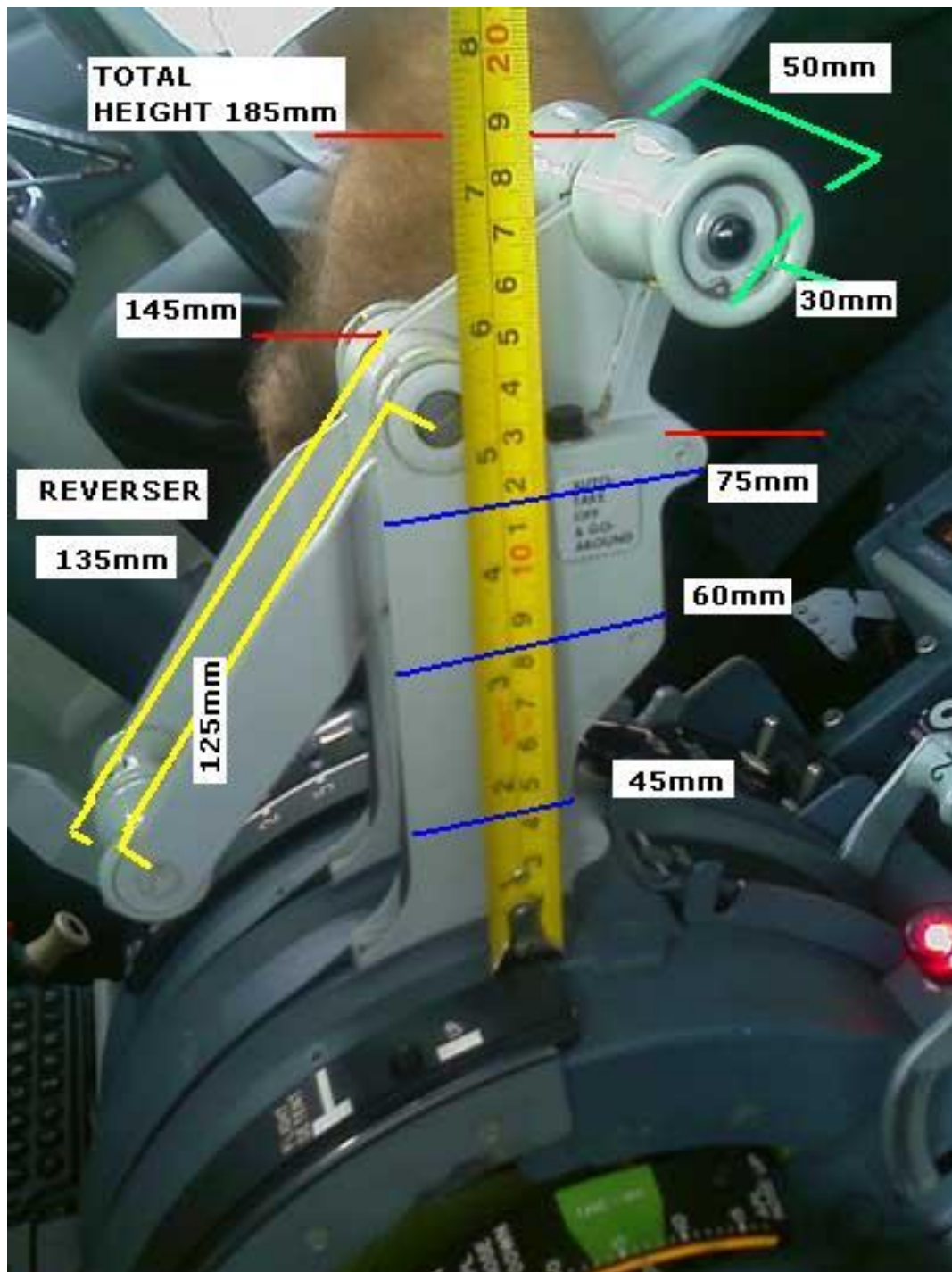
| RUDDER PEDALS DATA | |
|-----------------------------------|---|
| Rudder Pedal Width | 150 mm |
| Rudder Pedal Height | 230 mm |
| Height above Rudder Pedal Floor | 135 mm measured from rudder floor to bottom of rudder bar |
| Rudder Pedal Travel forward / aft | 100 mm from neutral position |
| | |
| | |



SPEEDBRAKE LEVER

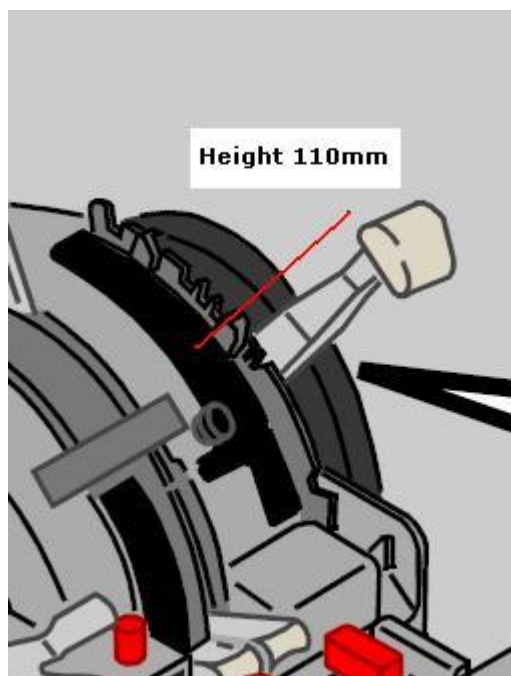
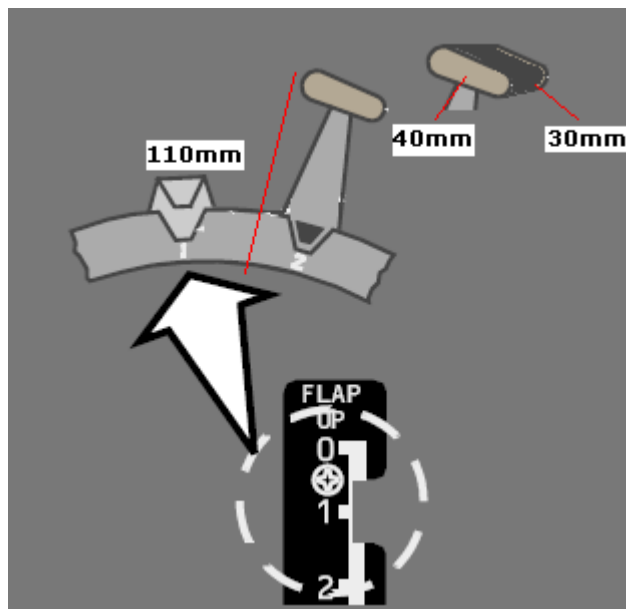
| SPEEDBRAKE LEVER | |
|-------------------------|------------|
| HEIGHT TOTAL | 150mm |
| LOWER LEVER | |
| UPPER LEVER | |
| HANDLE | 25 x 15 mm |

THRUST LEVERS



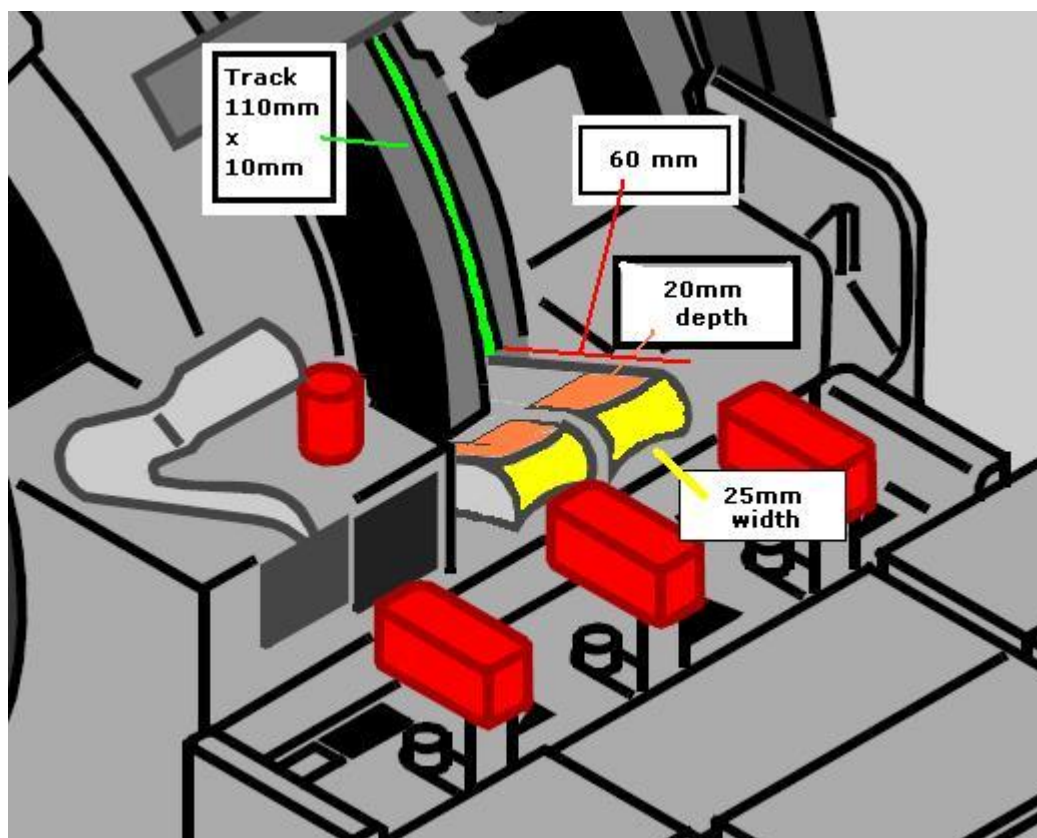
| THRUST LEVER | |
|---------------------|--------|
| HEIGHT TOTAL | 185mm |
| THRUST LEVER | |
| HANDLE WIDTH | 50mm |
| HANDLE DIAMETER | 30mm |
| | |
| REVERSE LEVER | 135 mm |
| HANDLE WIDTH | 23mm |
| HANDLE DIAMETER | 25mm |
| | |
| | |

FLAP LEVER



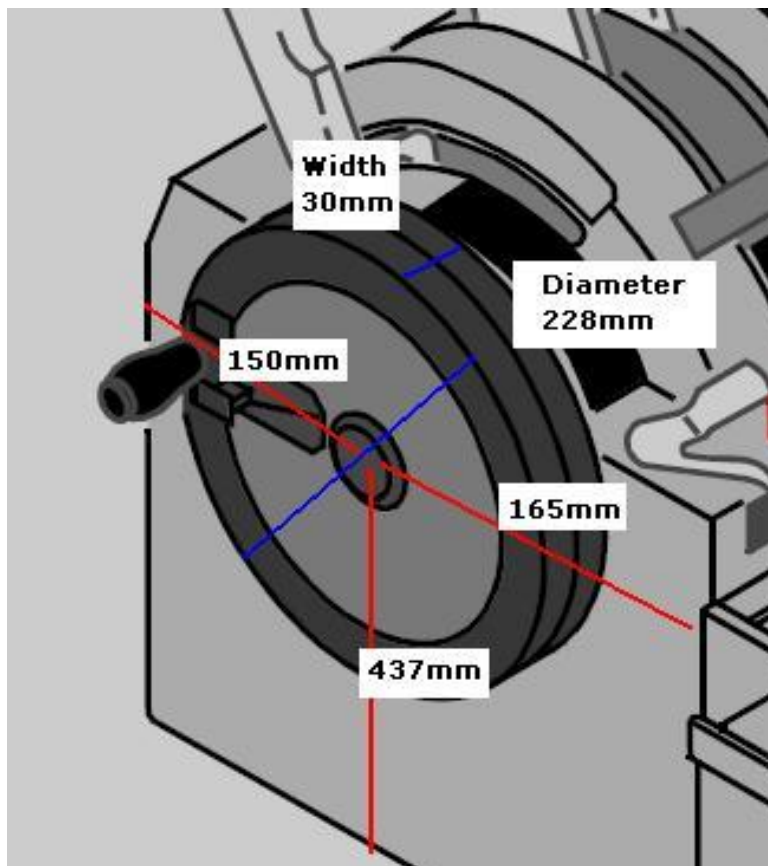
| FLAP LEVER | |
|--------------|--------|
| HEIGHT TOTAL | 110 mm |
| HANDLE | 40 mm |
| | 30 mm |
| | |

START LEVERS



| START LEVERS | |
|--------------|-------------|
| LENGTH TOTAL | 60 mm |
| HANDLE | 25 mm |
| | 20 mm |
| TRACK | 110 x 10 mm |

STABILISER TRIM WHEEL



| STAB TRIM WHEEL | |
|-----------------|------------------------------|
| POSITION | |
| HEIGHT | 437 mm |
| AXEL | 150mm / 165 mm from edges |
| DIAMETER | 228mm |
| WIDTH | 30mm |