

NOTE: Company Logo
in color

Conventional Flight Instruments

NOTE: Chapter and Section Headers are programmed. They will automatically generate LEP's and TOC.

Mac/Airspeed Indicator



CAPTAIN'S INSTRUMENT PANEL
FIRST OFFICER'S INSTRUMENT PANEL

1 Airspeed Cursor Mode Annunciator

- auto mode: out of view.
- manual mode: in view.

NOTE: Graphics are in full color, just as you would see them in the cockpit. Line drawings are used only if there is no other option.

NOTE: All titles can be linked to training or other manuals.

NOTE: Boxes are color shaded to stand out when printing is done in color.

2 Vmo Pointer

Indicates the maximum operating (indicated) airspeed in knots.

3 Vmo Flag

In view -

- indicates the Vmo pointer is inoperative.

4 Airspeed Pointer

Indicates airspeed in knots.

NOTE: Callout numbers are Type 1 fonts and fully vectorable.

NOTE: Fonts are Type 1, and fully vectorable.

5 Airspeed Cursor Control

- push in -
 - auto mode.
 - airspeed cursor is position from the AFDS FCC.
- pull out -
 - manual mode.
 - airspeed cursor is positioned by rotating the control.

NOTE: Auto Revision dates that print on LEP's.

NOTE: Page Numbers are auto generated and work with Chapter and Section Headers to automatically generate LEP's and TOC.

737 Operations Manual

6 Airspeed Cursor

- indicates target airspeed.
- positioned manually or automatically, as selected by the airspeed cursor control.

7 Airspeed markers

Positioned manually to the desired airspeed reference.

8 Mach Digital Counter

- shows Mach number, from .40 to .99 Mach, in digital form.
- masked below .40 Mach.
- digits are covered by a warning flag when the display is unreliable.

9 Airspeed Cursor Flag

manual mode: retracted.

auto mode: in view if airspeed cursor signals, as determined by the AFDS FCC, are unreliable.

10 Airspeed Digital Counter

- digital display of indicated airspeed in knots.
- warning flag covers the counter when the airspeed pointer and airspeed digital counter are unreliable.

Altimeter



**CAPTAIN'S INSTRUMENT PANEL
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1 Digital Counter

Indicates current altitude in increments of thousands, hundreds and twenty feet.

737 Operations Manual

- warning flag appears whenever the ADC signal is lost or a malfunction exists.
- green flag appears in the left window when the altitude is below 10,000 feet.
- a NEG flag appears in the two left-hand windows when altitude below zero feet is displayed.

2 Altitude Pointer

makes one revolution each one thousand feet.

3 Barometric Setting Control

Rotate -

- adjusts barometric settings.

4 Barometric Setting Window

Displays barometric correction (in millibars and inches of mercury) as set by the barometric setting control.

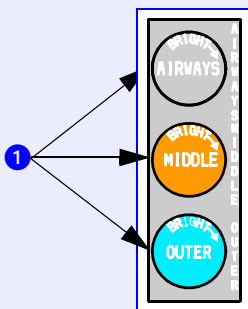
5 Reference Altitude Marker

manually positioned to the desired reference altitude using the reference altitude marker control.

6 Reference Altitude Marker Control

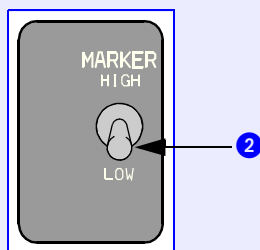
Use to manually set the reference altitude marker.

Marker Beacon



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FIRST OFFICER'S INSTRUMENT PANEL**

737 Operations Manual



CAPTAIN'S INSTRUMENT PANEL

1 Marker Beacon Lights

AIRWAYS (white) - illuminates over an inner or airways marker beacon.

MIDDLE (amber) - illuminates over a middle marker beacon.

OUTER (blue) - illuminates over an outer marker beacon.

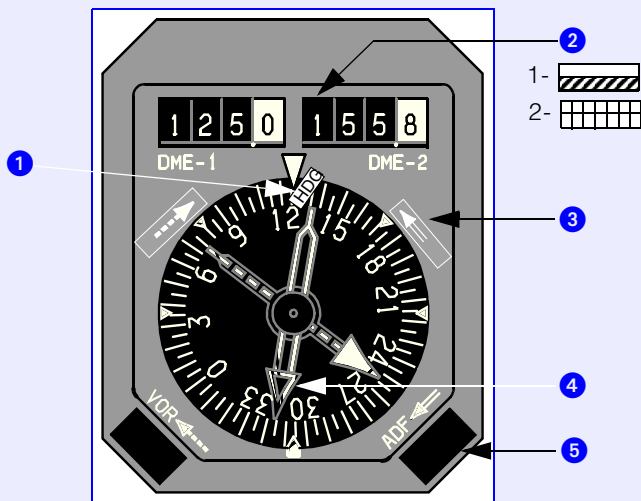
2 Marker Beacon Switch

HIGH - selects high sensitivity of receiver.

LOW - selects low sensitivity of receiver.

737 Operations Manual

Radio Distance Magnetic Indicator



**CAPTAIN'S INSTRUMENT PANEL
FIRST OFFICER'S INSTRUMENT PANEL**

1 heading Warning Flag

In view -

- selected compass signal is invalid.
- RDMI power failure.

2 DME Indicator

Indicates DME distance from selected DME station in nautical miles (300 nautical miles maximum).

Warning Flags:

- 1 -
 - electrical power lost.
 - invalid DME receiver.
- 2 -
 - DME receiver powered but not receiving a DME station.
 - agility tuning in progress.

3 Bearing Pointer Warning Flag

In view -

VOR mode:

- RDMI power failure.
- VHF NAV signal unreliable

ADF mode - REMI power failure.

737 Operations Manual

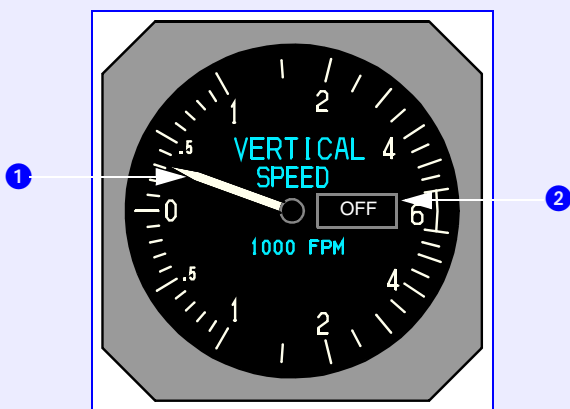
4 Bearing Pointers

- narrow pointer uses signals from the VHF NAV receiver No. 1 or ADF receiver No. 1.
- wide pointer uses signals from the VHF NAV receiver No. 2 or ADF receiver No. 2.

5 VOR/ADF Bearing Pointer Switch

ROTATE - selects related VOR or ADF for the bearing pointer.

Vertical Speed Indicator



CAPTAIN'S INSTRUMENT PANEL
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1 Vertical Speed Pointer

- depicts rate of climb or descent from 0 to 6,000 feet per minute.
- indicates zero when IRS vertical speed is unreliable.

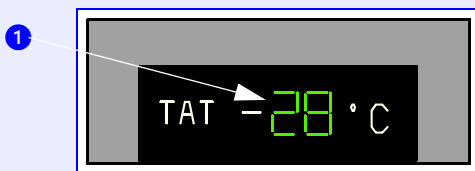
2 OFF Flag

In view -

- respective VSI and/or ADC has failed.
- selected IRS vertical speed data are unreliable.

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Air Temperature



CENTER INSTRUMENT PANEL

1 Digital Display

Displays TAT (deg C) indications in digital form.

Clock



**CAPTAIN'S INSTRUMENT PANEL
FIRST OFFICER'S INSTRUMENT PANEL**

1 Chronograph (CHR) Control

Push - Controls the start, stop and reset functions of the CHR display and second hand with successive pushing.

- overrides any existing ET display.

2 Time/Date Window

- displays time (hours, minutes) when time is selected with the time/date selector.
- alternately displays day-month and year when date is selected with the time/date selector.

3 Chronograph Second Hand

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- indicates chronograph seconds.
- controlled by the CHR control.

4 Elapsed Time (ET) Selector (three position, rotary)

Controls the elapsed time function.

RESET - returns ET display to zero (spring loaded to HLD).

HLD (hold) - stops the elapsed time display.

RUNB - starts the elapsed time display.

5 Date Control

Push - displays date (day, month) alternating with year.

Push - retunes display to time.

6 Elapsed Time 9ET)/Chronograph Window

- displays elapsed time (hours, minutes) or chronograph minutes.
- the chronograph display replaces the elapsed time display.
- elapsed time continues to run in the background and displays after the chronograph is reset.

7 Time Control (four position, rotary)

Sets the time and date when the time/date selector is set to manual.

FS D (fast slew, day) -

- advances hours when time is selected with the time/date selector.
- advances days when date is selected with the time/date selector

SS M (slow slew, month) -

- advances minutes when time is selected with the time/date selector.
- advances months when date is selected with the time/date selector.

HLD Y (hold, year) -

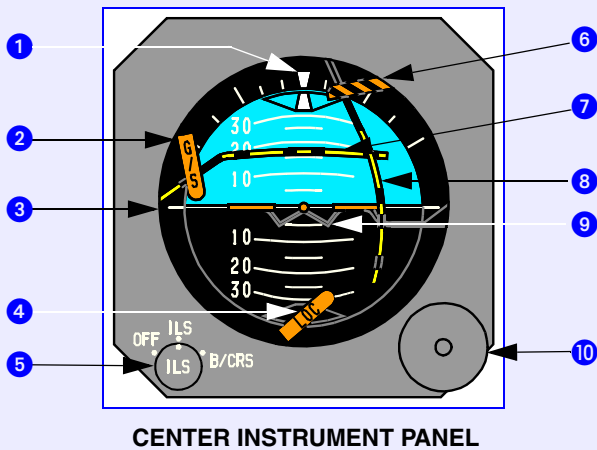
- stops the time indicator and sets the seconds to zero when time is selected with the time/date selector.
- advances years when date is selected with the time/date selector.

RUN - starts the time indicator.

Standby Flight Instruments

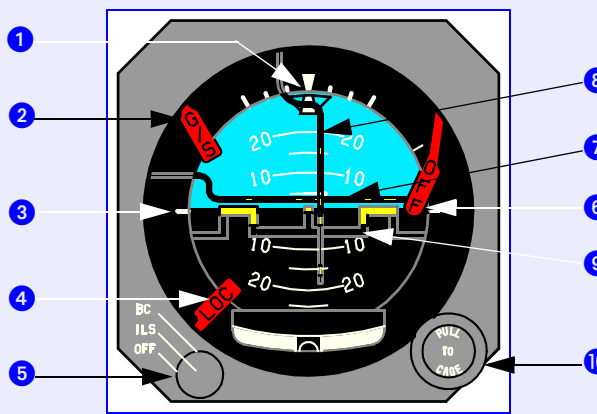
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Standby Horizon -400



CENTER INSTRUMENT PANEL

Standby Horizon -300



CENTER INSTRUMENT PANEL

1 Bank Indicator and Scale

Scale marks are at 0,10, 20,30,45 and 60 degrees.

2 Glideslope Flag

In view - glideslope receiver has failed.

737 Operations Manual

3 Horizon Line and Pitch Angle Scale

Pitch scale is in 5 degree increments.

4 LOC Flag

In view - Localizer receiver has failed.

5 Approach Mode Selector

OFF - glideslope and localizer pointers retracted from view.

ILS - glideslope and localizer pointers in view; ILS signals provided by the No. 1 ILS receiver.

B/CRS - reverses sensing for localizer pointer during back course approaches; glideslope pointer not displayed.

6 GYRO Flag

In view -

- attitude is unreliable.

7 Glideslope Pointer and Deviation Scale

- pointer indicates glideslope position.
- pointer is not displayed when:
 - approach selector is off.
 - no computed data exists
 - glideslope receiver has failed
- scale indicates deviation.

8 Localizer Pointer and Deviation Scale

- pointer indicates localizer position.
- pointer is not displayed when:
 - approach selector is off.
 - no computed data exists.
 - localizer receiver has failed.
- scale indicates deviation.

9 Airplane Symbol

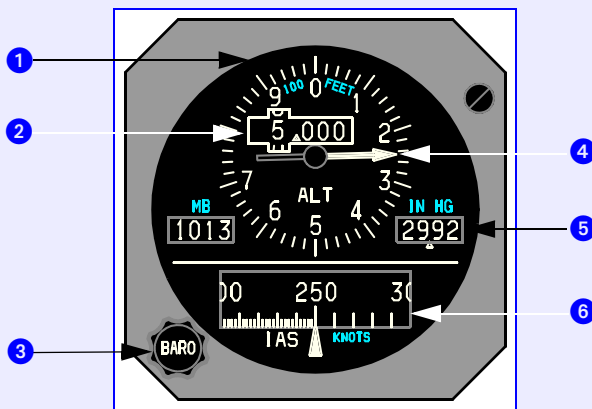
10 Caging Control

Pull - provides fast erection (caging) of the gyro.

Release - control retracts.

737 Operations Manual

Standby Altimeter/Airspeed Indicator



CENTER INSTRUMENT PANEL

1 Standby Altimeter

Indicates current altitude in feet.

2 Digital Counter

Indicates thousands of feet

- a green flag appears in the left window when altitude is less than 10,000 feet.
- a striped flag appears in the left window when altitude is less than zero feet.

3 Barometric Setting Control

Rotate -

- adjusts the barometric correction in both barometric windows.

4 Altitude Pointer

Indicates hundreds of feet.

5 Barometric Setting Windows

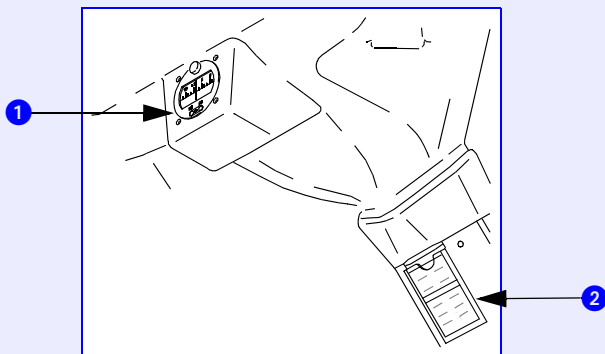
Displays barometric correction in millibars and inches of mercury as set by the barometric setting control.

6 Standby Airspeed Indicator

Indicates current airspeed in knots.

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Standby Magnetic Compass



CENTER POST ABOVE GLARESHIELD

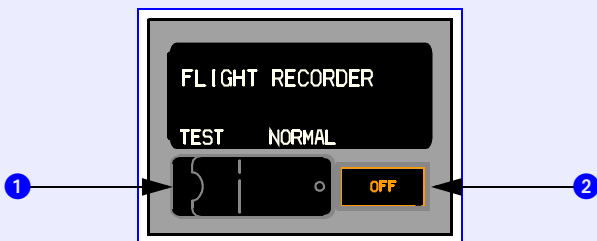
1 Standby Magnetic Compass

Displays magnetic heading.

2 Standby magnetic Compass Correction Card

provides appropriate heading corrections.

Flight Recorder



AFT OVERHEAD PANEL

1 Flight Recorder Test Switch

NORMAL (guarded position) -

- in flight - the recorder operates anytime electrical power is available
- on the ground - either engine must also be operating.

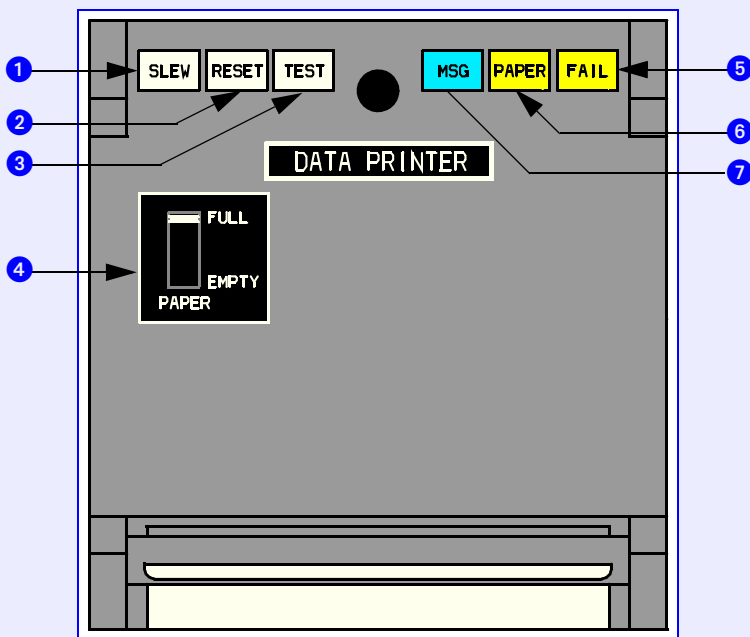
TEST - bypasses the engine oil pressure switches and the air ground switch to power the flight recorder on the ground.

2 OFF Light

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Illuminated (amber) - indicates the recorder is not operating or the test is invalid. may indicate power failure, loss of input data, or electronic malfunction.

Aircraft Condition Monitoring System (ACMs) Printer -300



AFT ELECTRONIC PANEL

1 SLEW Switch

Advances paper feed.

2 TEST Switch

Initiates self-test to print character list.

3 RESET Switch

Resets Printer.

4 PAPER Indicator

Indicates paper level.

5 FAIL Light



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Indicates paper supply is exhausted.

6 PAPER Light

Indicates paper supply is exhausted.

7 Message (MSG) Light

Indicates message pending on printer.