



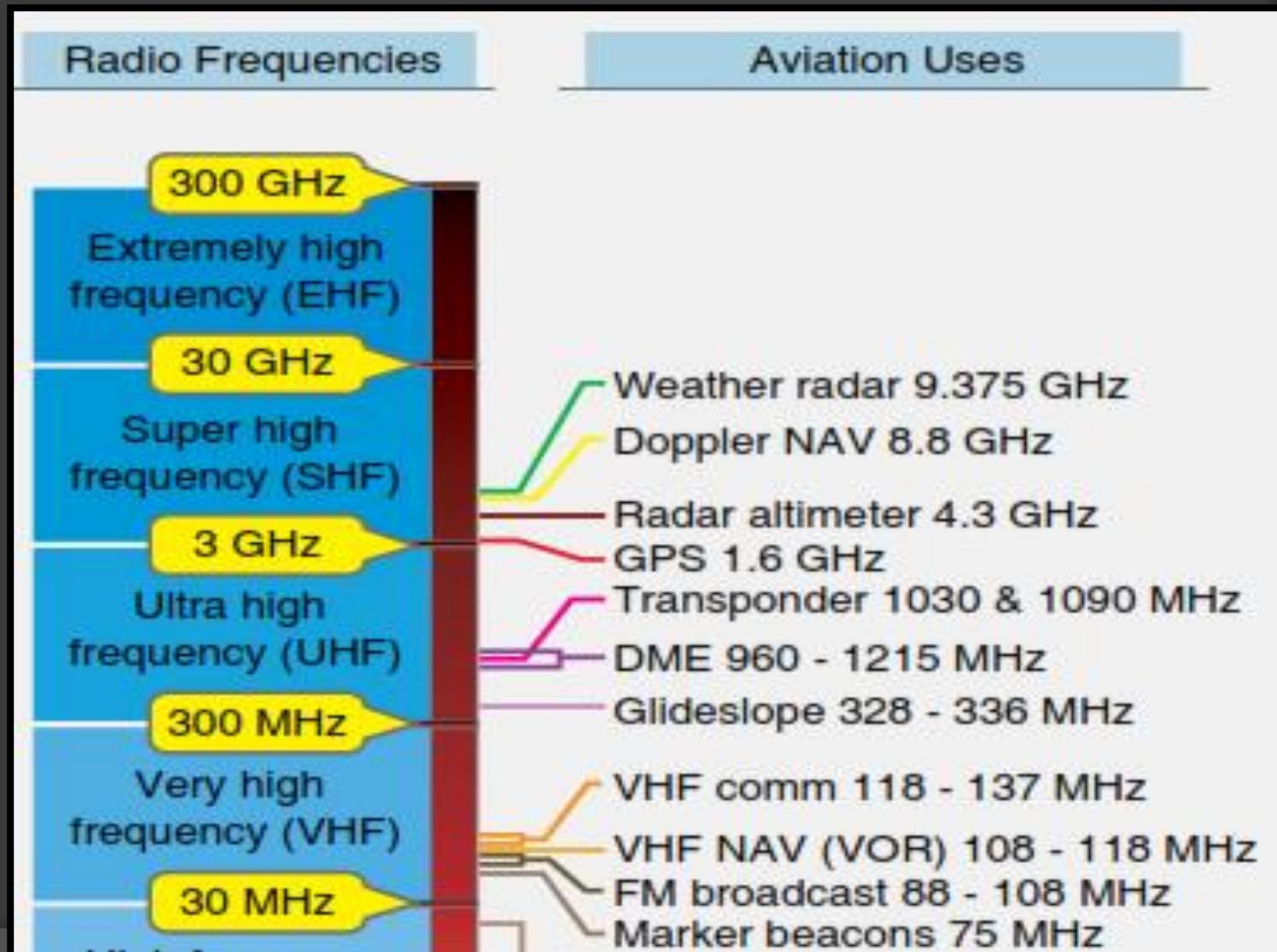
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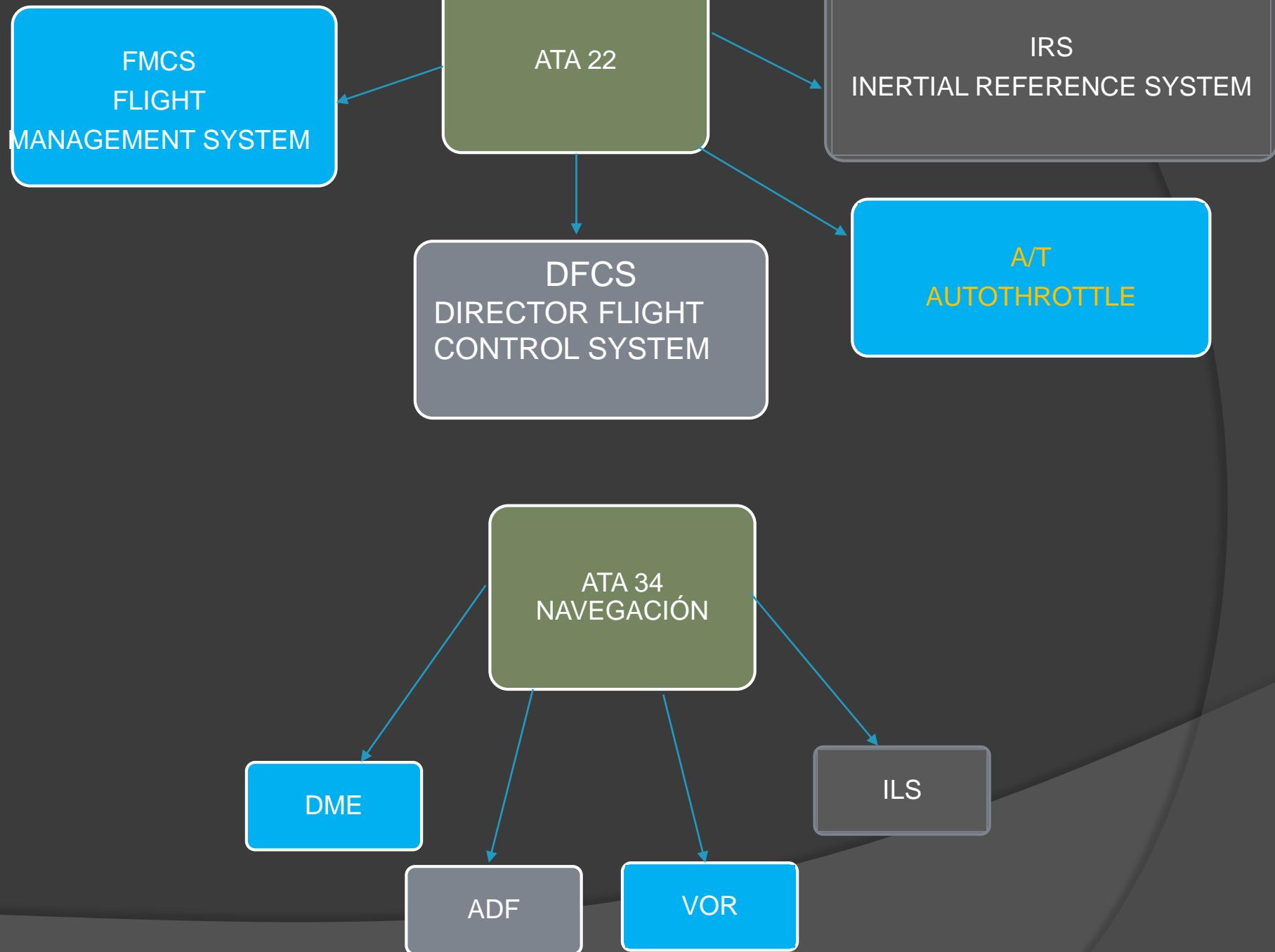
UNIVERSIDAD DE LAS FUERZAS ARMADAS
INNOVACIÓN PARA LA EXCELENCIA

UNIDAD DE GESTIÓN DE TECNOLOGÍAS

POTENCIACIÓN DEL SIMULADOR
BOEING 737-800 A TRAVÉS DE
LA ADESHIÓN DE LOS
SISTEMAS AFOR (AUTOMATIC
FLIGHT ON RUTE) Y (AUTOMATIC
FLIGHT DIRECTOR SYSTEM
ADFS)

SISTEMA DE NAVEGACIÓN





PILOTO AUTOMÁTICO SP-77



PILOTO AUTOMÁTICO SP-177



PILOTO AUTOMÁTICO

- ❖ Mantiene la altitud programada
- ❖ Ascenso o descenso en una nueva altitud
- ❖ Velocidad programada
- ❖ Acelerar o reducir a una velocidad programada
- ❖ Seguir un rumbo programado
- ❖ Alinear el avión para aproximaciones a tierra

AUTO FLIGHT - DESCRIPTION AND OPERATION

The automatic flight control systems (AFCS) consist of three independent systems:

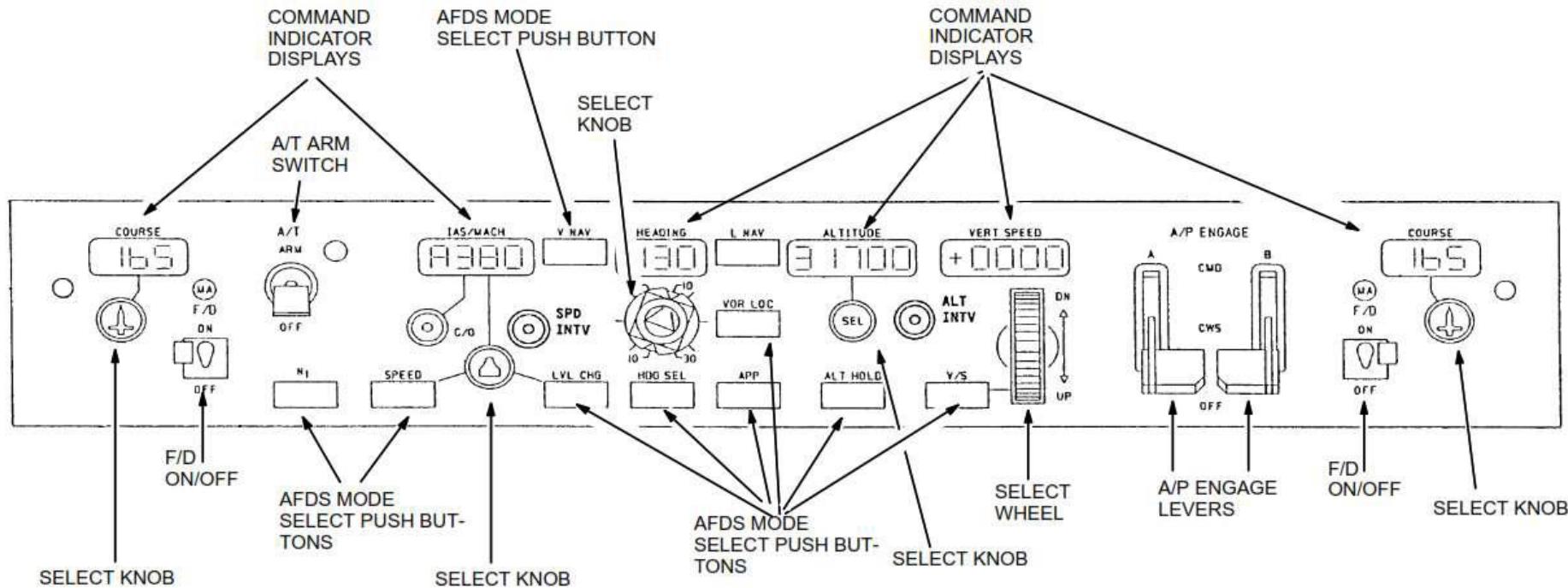
- Digital flight control system (DFCS)
- Yaw damper system
- Autothrottle system.

These systems provide automatic selective guidance from radio, heading, flight management computer, and air data computer inputs.

MCP (MODE CONTROL PANEL)

- DFCS comprendido de dos computadoras de vuelo la (FCC), la (MCP) y cuatro A/P ACTUADORES
- Permite controlar:
 - F/D EADI
 - A/P
 - A/T

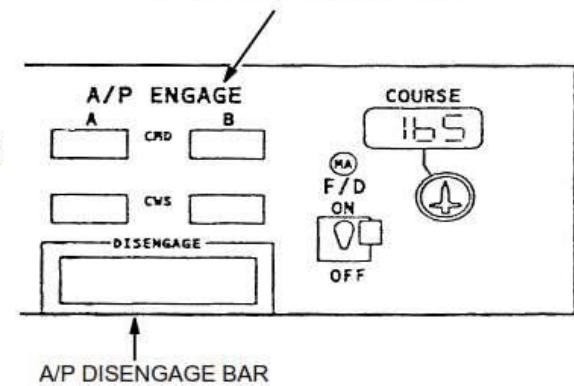
AFCS MODE CONTROL PANEL

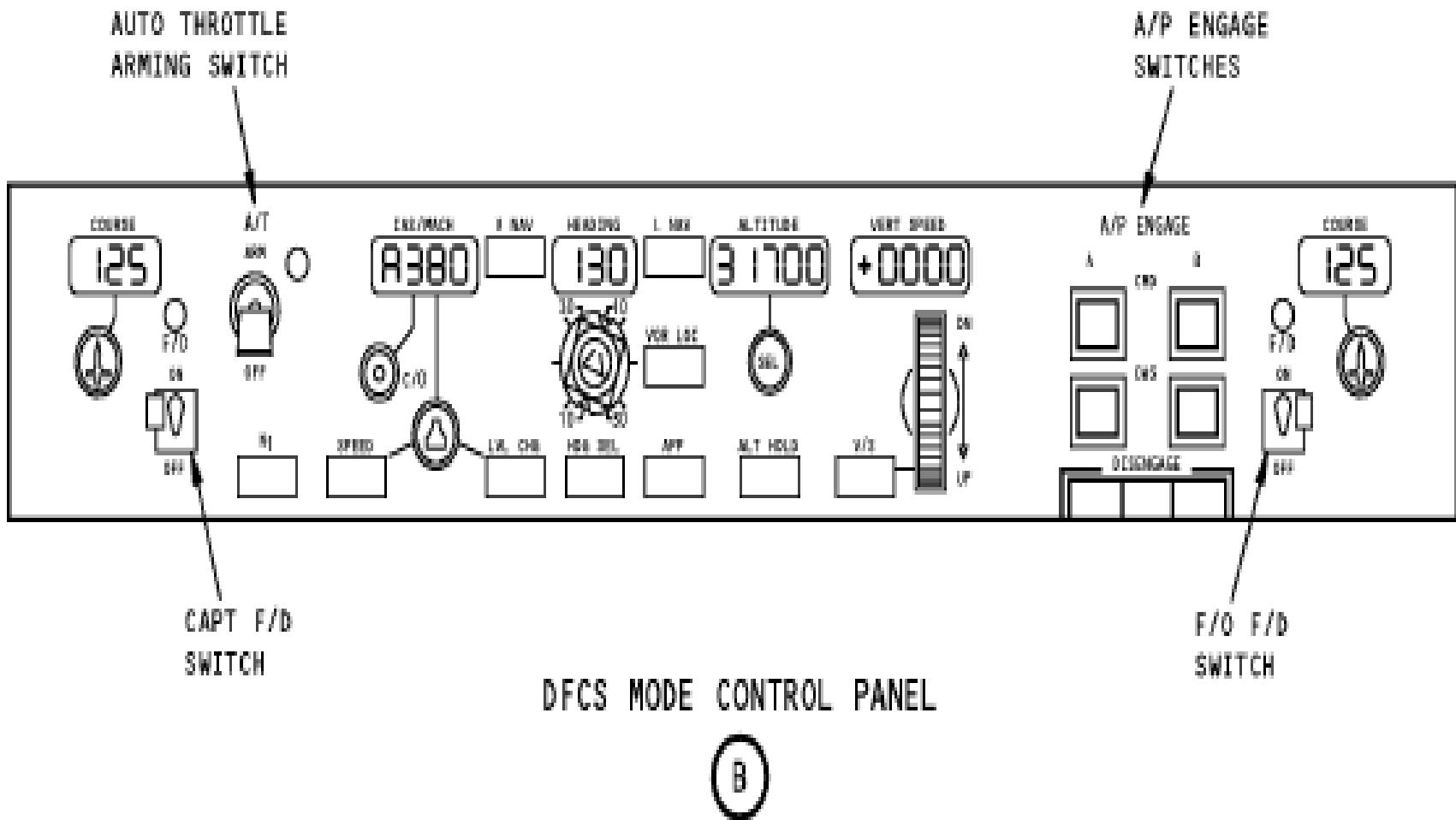


MODE CONTROL PANEL WITH ENGAGE-LEVERS

A/P ENGAGE PUSHBUTTONS

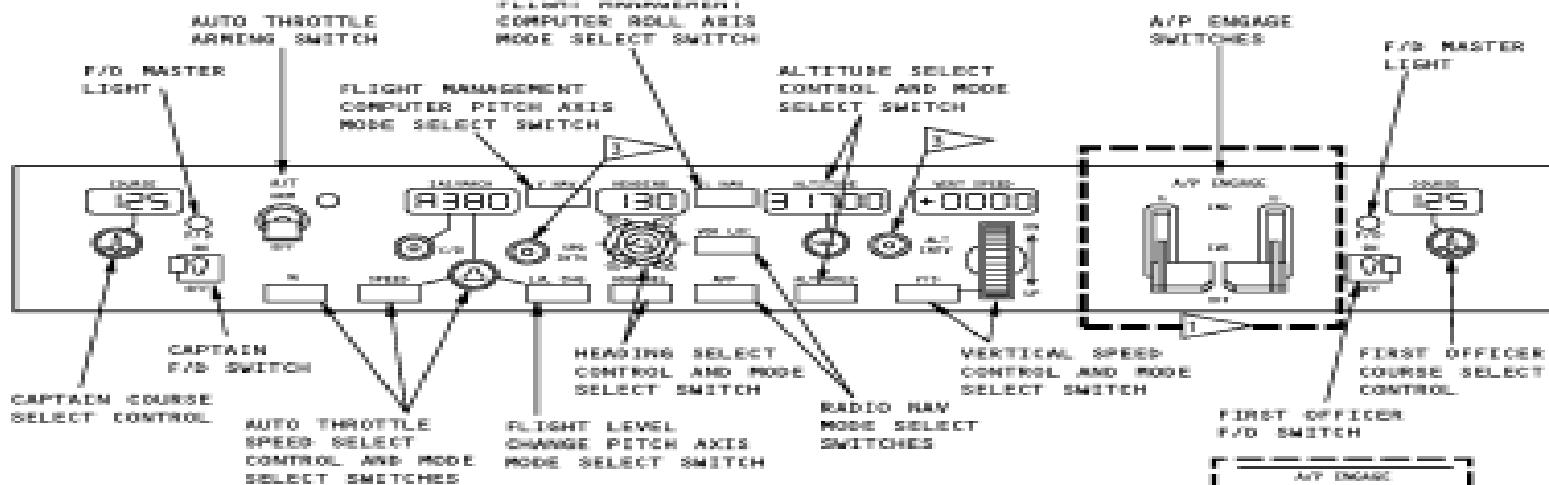
MODE CONTROL PANEL WITH
ENGAGE-PUSHBUTTONS





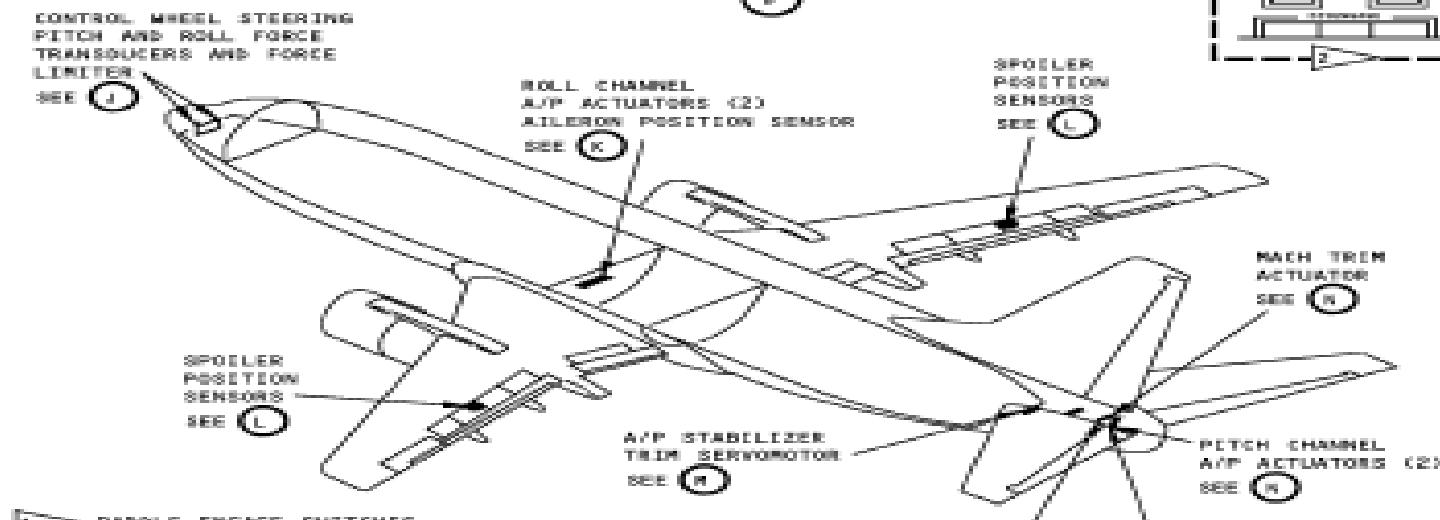


737-300/400/500
AIRCRAFT MAINTENANCE MANUAL



MODE CONTROL PANEL (EXAMPLE)

D



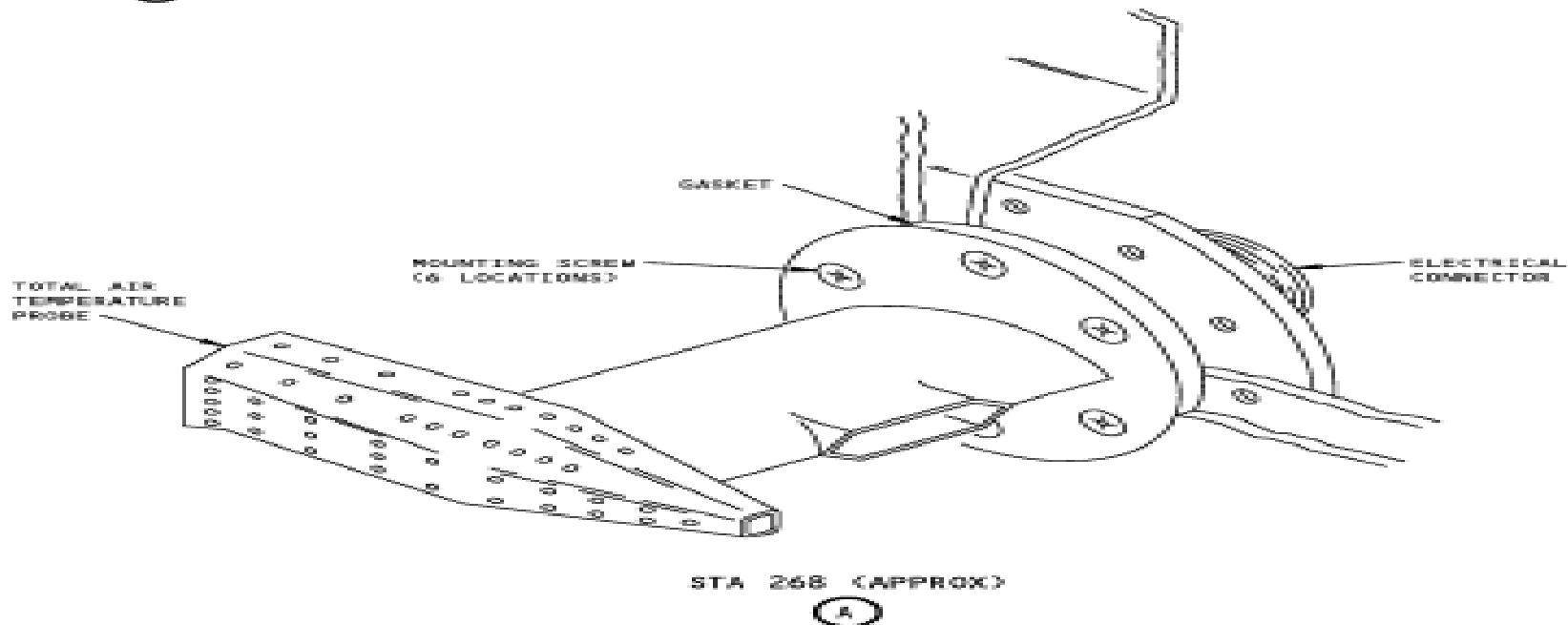
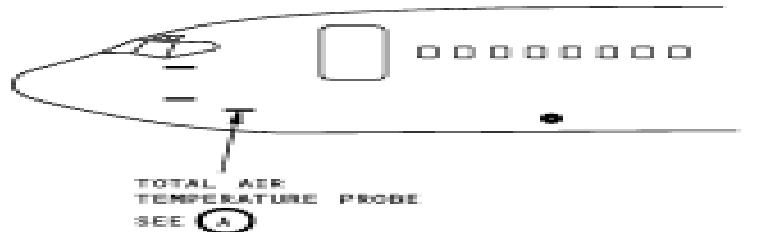
- 1 → F/A/P ENGINE SWITCHES
- 2 → PUSHBUTTON ENGAGE SWITCHES
- 3 → ON AIRPLANES WITH SPEED AND ALTITUDE INTERVENTION CAPABILITY

ED0000000000000000000000_V1

DIFCS - Component Location
Figure 1 (Sheet 2 of 6) 22-11-01-990-801

ADC (AIR DATA COMPUTER)

AIRCRAFT MAINTENANCE MANUAL



1400000 200004 12232005_V1

Total Air Temperature Probe - Installation
Figure 401 (Sheet 1 of 2) 34-12-31-090-801

EFFECTIVITY
ARG 001-010

34-12-31

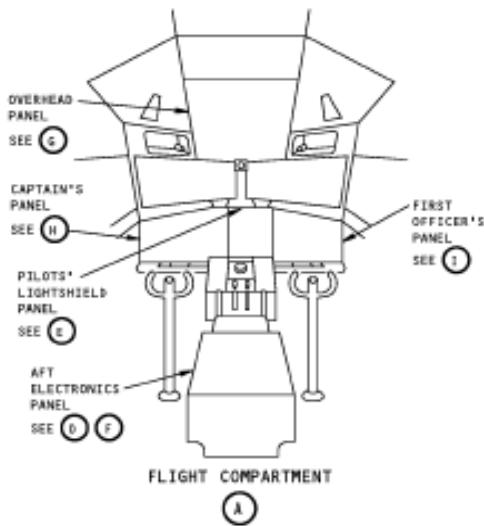
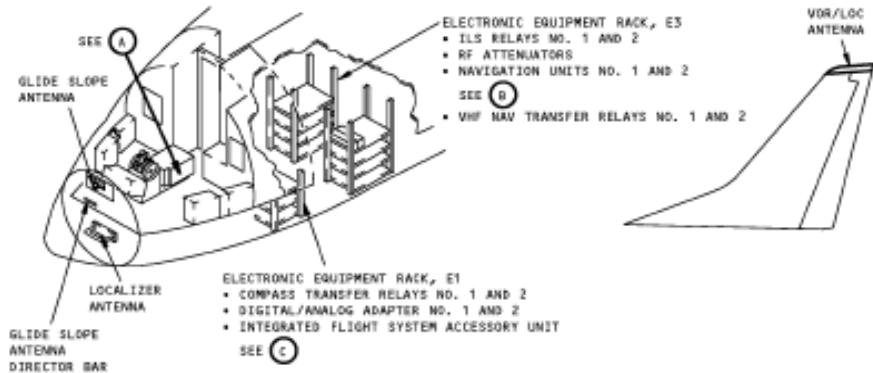
Page 403
Sep 25/2009

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VOR/ILS

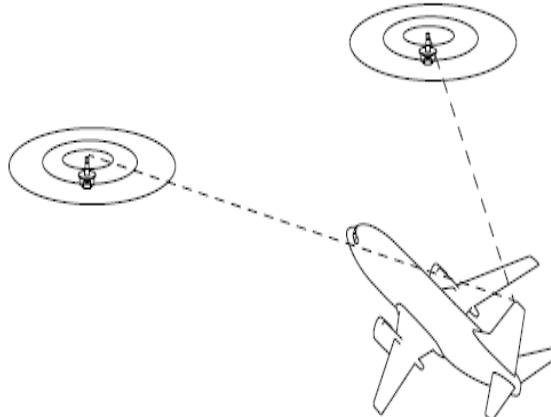
Este sistema permite aproximarse o aterrizar en condiciones de baja visibilidad

AIRCRAFT MAINTENANCE MANUAL

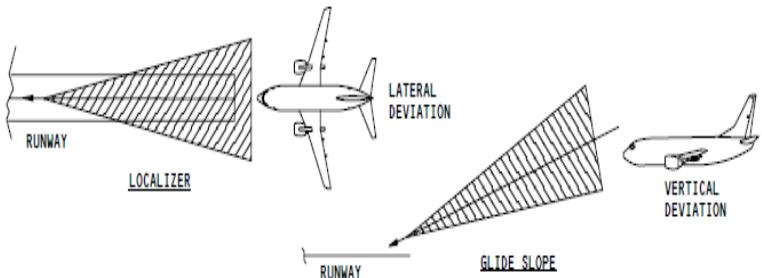


VOR/ILS Navigation System Component Location
Figure 1 (Sheet 1 of 10) 34-31-02-990-801

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VHF OMNIDIRECTIONAL RANGING



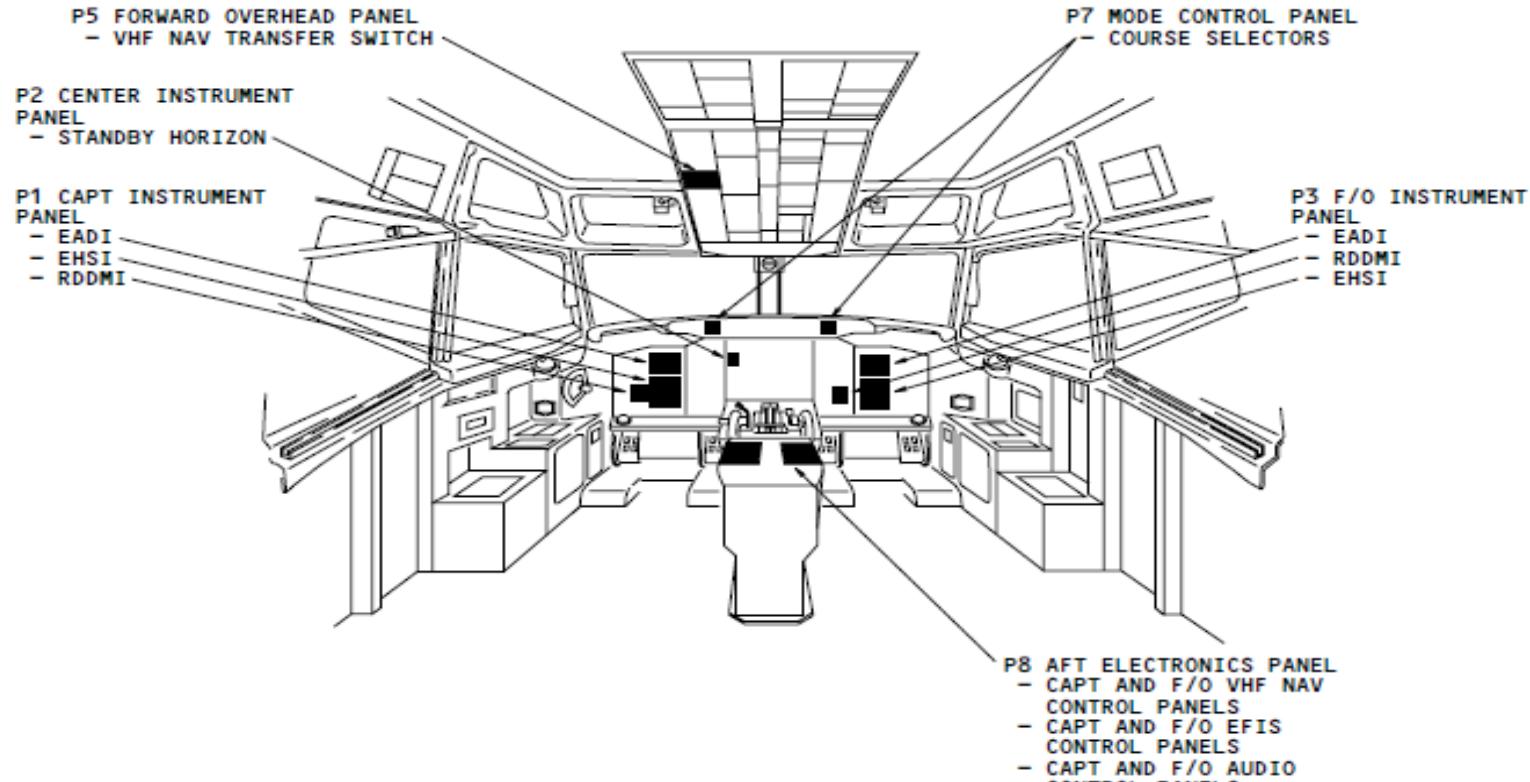
INSTRUMENT LANDING

VHF OMNIDIRECTIONAL RANGING/INSTRUMENT LANDING NAVIGATION SYSTEM - INTRODUCTION

EFFECTIVITY
FS003

34-31-CC

LOCALIZACIÓN DE LOS COMPONENTES DEL ILS/VOR



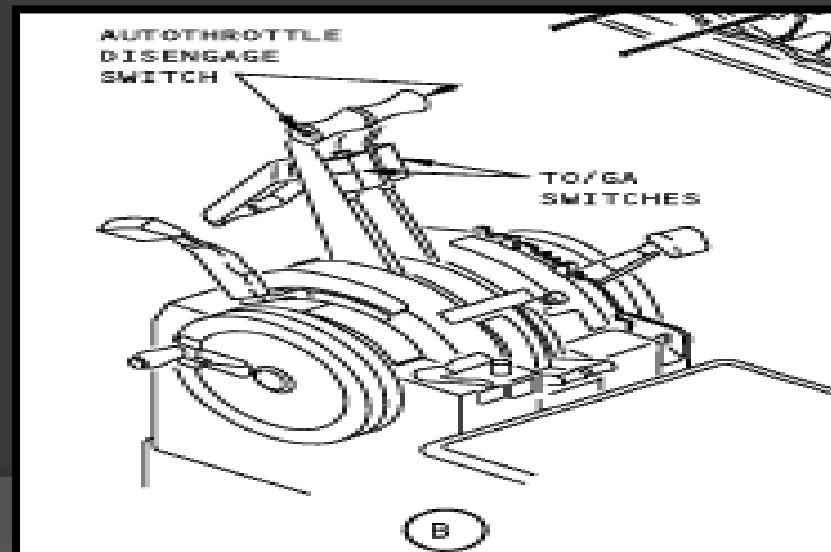
VOR/ILS NAVIGATION SYSTEM - FLIGHT COMPARTMENT COMPONENT LOCATION

EFFECTIVITY
FS003

34-31-CC

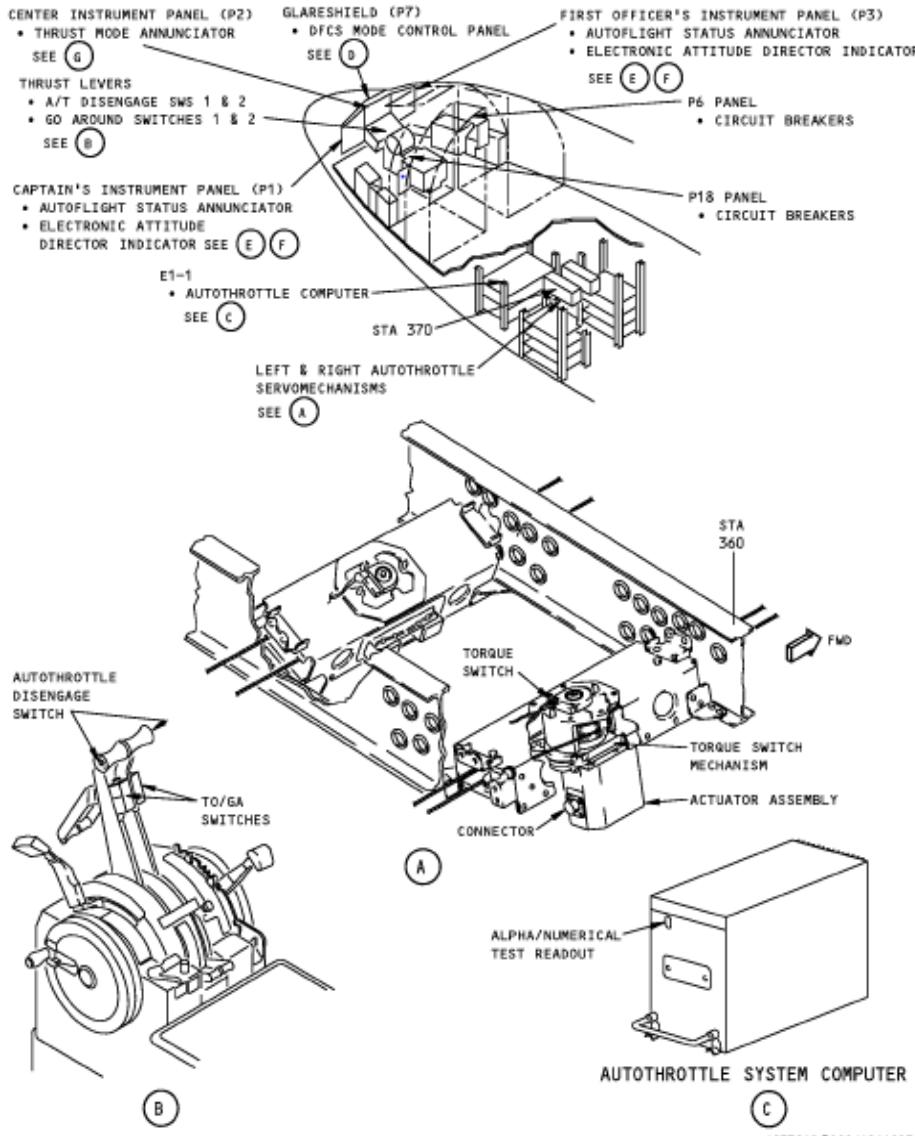
AUTOTHROTTLE

- Es un sistema en el cual consiste de:
- 1 computadora digital
- Autothrottle engage switch en despegue y en aterrizaje
- 2 ángulos de palanca de potencia (PLA) syncros está montado en la caja de control de combustible del motor.



LOCALIZACIÓN DEL AUTOTHROTTLE

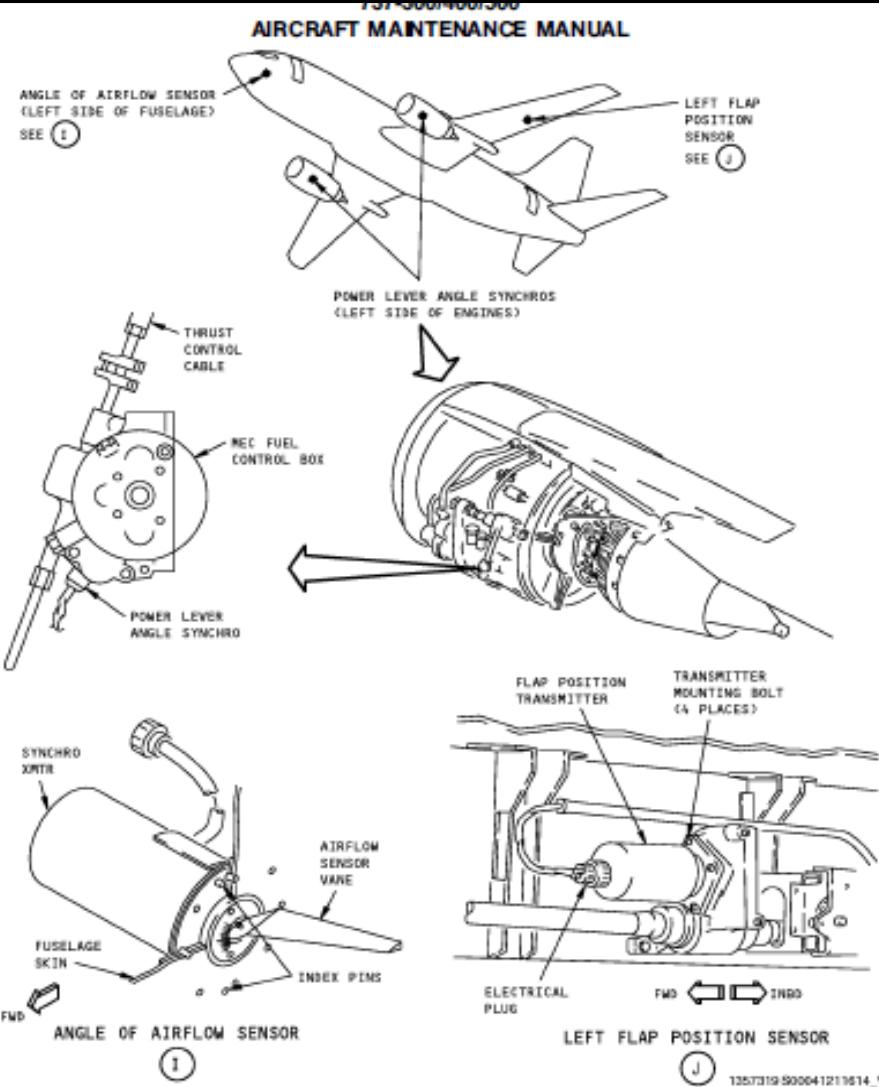
AIRCRAFT MAINTENANCE MANUAL



Autotrottle System - Component Location
Figure 1 (Sheet 1 of 6)/22-31-00-990-801

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AIRCRAFT MAINTENANCE MANUAL



Autotrottle System - Component Location
Figure 1 (Sheet 6 of 6)/22-31-00-990-801

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GRACIAS