PART 0 - GENERAL INFORMATION

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SCOPE OF THE MANUAL

The Operations Manual for C-295 aircraft, provides the flight crew with the essential information for the safe and efficient operation of the aircraft. Information herein supplies knowledge about the aircraft, its limitations, flight characteristics and procedures for both ordinary and emergency conditions. Flight basics are excluded, as crew flying skills are assumed.

Handbook instructions are intended for a non-skilled crew while flying the aircraft. Deemed best operating instructions are given for every condition in the Operations Manual, but no handbook can replace the pilot's know-how. Procedures may be conditioned by diverse emergencies, adverse weather, terrain conditions, etc...

Operations Manual states only what can be normally done. Unless specifically addressed, no atypical configuration (such as asymmetrical loading) or operation is allowed.

This manual complements the approved Flight Manual. This last one will be the final authority, when discrepancies arise between both of them.

ARRANGEMENT

The Operations Manual is divided in two volumes, to become friendly to the user:

- (VOL I) Systems Description and Operation: it is divided in 24 chapters arranged according to the AECMA 1000D standards. It reports system description and functioning of the aircraft.
- (VOL II) Procedures and Limitations: it is divided into 8 sections arranged according to AECMA 1000D standards. Consists of every flight information needed. For an easy management and use, the performance data are extracted from this volume and gathered as a separate manual, the Performance Data Manual.

The following manuals are issued separately, but they are required for the aircraft operation:

- Performance Data Manual: referenced as P.D.M. C-295M MIL OP. It is divided into 11 parts.
 It includes performance data and graphics applied on the full range of weights for military
 operation of the aircraft, according to the recommendations of MIL-PRF-7700F standards. For
 civil operation refer to applicable AFM.
- Quick Reference Handbook: It includes an arranged summary of limitations, procedures list and performance data. Performance data for military operation of the aircraft are according to the recommendations of MIL-PRF-7700F standards.
- CheckList: It assigns to each flight phase a minimum series of points to be checked by the crew to ensure aircraft safety and efficency.

REVISIONS

Documentation updating is carried-out through the following types of revisions:

- Normal Revisions: Periodically issued, they cover not urgent amendments, changes or updating. They also contains instructions for their insertion into the manual, and replacements for the List of Effective Pages.
- Temporary Revisions: Covering any urgent amendment, are printed on yellow paper. They
 include a Transmittal Letter (also printed on yellow paper), which contains the instructions for
 the insertion of the revised pages into the manual, and serves as a record sheet of temporary
 revisions, for control purposes.

WARNING, CAUTION AND NOTE

The following definitions apply to the "Warnings", "Cautions" and "Notes" calls found throughout the manual:

WARNING

Procedures, methods, etc., which will result in personal injury or loss of life, if not carefully observed.

CAUTION

Procedures, methods, etc., which will result in damage to equipment, if not carefully observed.

NOTE

Procedures, methods, etc., which are considered essential to emphasize.

COMMENTS AND SUGGESTIONS

This manual must be kept up to date. Any gathered experience must become part of its contents. No error may be ammended unless we formerly know about its existence. So, it is essential that everyone collaborates on making the right remarks and suggestions, when needed they should be forwarded to:

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LIST OF ABBREVIATIONS AND SYMBOLS

NOTE

Abbreviations underlined will always appear in capital

letters.

% Percent

AC Alternating Current

A/C Aircraft

ADC Air Data Computer

ACM Air Cicle Machine

ACOC Air Cooled Oil Cooler

ADC Air Data Computer

ADF Automatic Direction Finder

ADI Attitude Direction Indicator

ADL Air Data Loader

ADS Air Data System

ADU Air Data Unit

AFCS Automatic Flight Control System

AFU Auto-Feather Unit

AGB Accesory Gear Box

AGL Above Ground Level

AHCP Attitude Heading Control Panel

AHRS Attitude Heading Reference System

AHRU Attitude Heading Reference Unit

A/I Anti-Ice

AIL Aileron

ALT Altitude

<u>AMP</u> Amperes

ANT Antenna, Aerial

AOA Angle Of Attack

AP Automatic Pilot

APP Approach

APR Automatic Power Reserve

APU Auxiliary Power Unit

ARM Armed

ARTCS Automatic Rudder Trim Compensator System

ARTCU Automatic Rudder Trim Compensator Unit

ARTE Above the Runway Threshold Elevation

ASCU AntiSkid Control Unit

ASI Air Speed Indicator

ATC Air Traffic Control

ATT Attitude

<u>AUT</u> Automatic

<u>AUX</u> Auxiliary

BARO, BAR Barometric

BATT, BAT Battery

BCF

BLS Beta Lockout System

BLW Below

<u>°C</u> Centigrade, Celsius Degrees

<u>CADC</u> Central Air Data Computer

CAPT Captain (Flight Commander)

<u>CAS</u> Calibrated Airspeed

CASA Construcciones Aeronáuticas Sociedad Anónima

<u>C/B</u> Circuit Breaker

CC (DC) Direct Current

<u>CG</u> Center of Gravity

CDS Centered Diagnostic System

CEU Control Engaging Unit

CFL Critical Field Lenght

<u>CH</u> Channel

CKL Check List

CLB Climb

<u>C/M</u> Crew Member

<u>C/M-1,(2)</u> Crew Member 1, (2)

CMD Command

<u>CMDS</u> Counter Measure Dispenser System

CMS Centralized Maintenance System

COMM Communications

CON, CONT Continuation

CONFIG Configuration

<u>CPS</u> Cycles per Second

CRA Corrective Actions

CRS Course

CRZ1 Cruise 1

CRZ2 Cruise 2

<u>CVR</u> Cockpit Voice Recorder

<u>DA</u> Decision Altitude

DC Direct Current

DEC DECR Decrease

DEV Deviation

DFDR Digital Flight Data Recorder

DG Directional Gyro

<u>DH</u> Decision Height

DI Drag Index

DIFF Differential

DIS Disconnection

DISCH Discharge

<u>DME</u> Distance Measuring Equipment

DN Down

DOI Dry Operating Index

<u>DOW</u> Dry Operating Weight

DSC Descent

DTVC Double Temperature Control Valve

DZ Drop Zone

ΔVc Airspeed Compressibility Correction

EADS European Aeronautic Defense and Space Company

EAS Equivalent Airspeed

ECS Environmental Control System

ECU Electronic Control Unit

EEC Electronic Engine Control

EFCP Electronic Flight Control Panel

EFIS Electronic Flight Instrument System

EHSI Electronic Horizontal Situation Indicator

ELEC Electric

ELEV Elevator

ELT Emergency Locator Transmitter

EMERG Emergency

ENG Engine

EPC Electronic Propeller Control

EPE Estimated Position Error

EQPT Equipment

ET Elapsed Time

ETCAS Enhanced Traffic Control and Alert System

<u>EV</u> Electrovalve

EVAC Evacuation

EXT External

°F Fahrenheit Degrees

FAA Federal Aviation Administration

FAR Federal Aviation Regulations

FCOC Fuel Cooled Oil Cooler

FCU Fuel Control Unit

FD Flight Director

FDAU Flight Data Acquiring Unit

FDR Flight Data Recorder

FDS Flight Deck System

FDU Fire Detection Unit

FECU Flap Electronic Control Unit

FF Fuel Flow

FFL Fuel and Feather Levers

FGCP Flight Guidance Conrol Panel

FGM Flight Guidance Module

FGS Flight Guidance System

<u>FL</u> Flight Level

FL Flare FLT Flight

FMC Flight Management Computer

FMG Flight Management Guide

FMM Flight Management Module

FMS Flight Management System

FPLN Flight Plan

FPM Feet per minute

FR Frame

FREQ Frequency, Frequence

<u>FT</u> Feet (units of measure)

FVU Flap Validation Unit

FWD Forward, Front part

GA Go-Around

GAL US Gallons

GCA Ground Controlled Approach

GCU Generator Control Unit

GEN Generator

GFE Government Furnished Equipment

GI Ground Idle

GMT Greenwich Meridian Time

GND, GRD Ground

GPS Global Positioning System

GPU Ground Power Unit

GPWS Ground Proximity Warning System

GS Gilde Slope

GW Gross Weight

HARP Hight Altitude Air Release Point

<u>HAS</u> Heading and Attitude System

HDG Heading

HDOP Horizontal Dissolution Of Precision

HF High Frequency

Hg Mercury

HLD Hold

HMU Hydraulic Mechanical Unit

Hp True Pressure Altitude

Hpa Hectopascal

Hpi Indicated Pressure Altitude

Hpo Sea Level Pressure Altitude

HPSOV High Pressure Shut-Off Valve

hr Hour

HSI Horizontal Situation Indicator

HVY Heavy

HYD Hydraulic

<u>Hz</u> Hertz

IAS Indicated Airspeed

ICP Index Control Panel

ICS Integrated Customer Service

ID Identification

IEDS Integrated Engine Display System

IESI Integrated Electronic Standby Instrument

IFA In-flight Alignment

IFC In-flight Computer

IFF Identification Friend or Foe

IFR Instrumental Flight Rules

<u>ILS</u> Instrument Landing System

INBD In Board

in Inch

INCR Increase

INOP Inoperative

<u>INV</u> Inverter

IOP In-Out Processors

IRS Inertial Reference System

ISA International Standard Atmosphere

<u>ITT</u> Interstage Turbine Temperature

<u>IU</u> Index Unit

IVSI Inertial Vertical Speed Indicator

JB Jack Box

JUL July Joule

KCAS Knots Calibrated Air Speed

KG Kilograms

KHZ Kilohertz

KIAS Knots Indicated Air Speed

<u>KT</u> Knots

KVA Kilovolt-Ampere

KW Kilowatt

<u>L</u> Left

LAT Latitude

LB Pounds

Lb/H Pounds per Hour

LDG, LDNG Landing

LNAV Lateral Navigation

LO Low

LOC Locator

LONG Longitudinal

<u>LP</u> Low Pressure

LRC Long Range Cruise

Lt Light

<u>LW</u> Landing Weight

m Meters

M Military

m/s Meters per second

MAC Mean Aerodynamic Chord

MAN Manual

MAX Maximum

MB Millibar

MCDU Multipurpose Control Display Unit

MCL Maximum Climb Power [Torque]

MCR Maximum Cruise Range [Torque]

MCT Maximum Continuous Power [Torque]

MDF Mission Data File

MEA Minimum En-route Altitude

MEL Minimum Equipment List

MEM Memory

MHZ Megahertz

m.i. Magnetic Indicator

MIC Microphone

MIN Minimum

min Minute

MJ Mega-Joules

MKR Marker

MLW Maximum Landing Weight

MM Middle Marker

MMEL Master Minimum Equipment List

MMR Multi-mode Receptor

MPH Miles per Hour

MSA Minimum Safety Altitude

MSG Message

MSL Mean Sea Level

MTOW Maximum Take Off Weight

MTXW Maximum Taxi Weight

MZFW Maximum Zero Fuel Weight

NAV Navigation

ND Navigation Display

NDB Non-directional Radio Beacon

NH High Pressure Reel Turn Speed (rpm)

Ni-Cd Nickel-Cadmiun

NL Low Pressure Reel Tur Speed (rpm)

NM Nautic miles

No Number

NP Propeller Turn Speed (rpm)

NRP No Return Point

NVG Night Vision Goggles

OAT Outside Air Temperature

OCL Obstacle Clearance Limit

OCT October

OFP Operational Flight Plan

OM Outer Marker

OSG Over-Speed Governor

OT Other Traffic

OVHT Overheat

OVRD Override

OXY Oxygen

P Procedures

<u>PA</u> Passenger Address or Public Address

PAR Precision Approach Radar

PAX, PASS Passengers

PCU Propeller Control Unit

PERFO Performance

PF Pilot Flying

PFD Primary Flight Display

PGB Propeller Gear Box

<u>PL</u> Power Level

PNEU Pneumatic

PNF Pilot not Flying

pph Pounds per Hour

PRESS Pressure

Press Alt Pressure Altitude

PROC Procedure

PRS Power Rating Selector

PRSOV Pressure Regulating and Shut-Off Valve

PSI Pounds per Square Inch

PSU Passenger Service Unit

PT Proximity Traffic

PTT Push To Talk

PVM Propeller Valve Module

PWR Power

QFE Field Elevation Atmospheric Pressure

QNH Sea Level Atmospheric Pressure

QTY Quantity

R, RH Right Hand

R/A Radio Altimeter

RBS Rudder Booster System

R/C Rate of Climb

RCR Runway Condition Reading

Rate of Descent

RDMI Radio Distance Magnetic Indicator

REF Reference

REL Release

RF Radio-Frequency

RFI Rolling Friction Index

RGB Reduction Gear Box

RMI Radio-Magnetic Indicator

RMS Radio Management System

RNAV Area Navigation

RPM Revolutions Per Minute

Runway Visual Range

RWR Radar Warning Receiver

RWY Runway

SAR Search and Rescue

SEL Selector

SELCAL Selective Call

SEMI Semiautomatic

SEQ Sequence

SHP Shaft Horse Power

SL Sea Level

SLPS Secondary Low Pitch Stop System

SOV Shut-Off Valve

SPD Speed

STBY Standby

STO Store/Storage

SWRS Stall Warning Recovery System

SYNC Synchronize

SYS System

T Temperature

TA Traffic Advisory

TAC TACAN

TACAN Tactical Air Navigation

TAS True Airspeed

TAT Total Air Temperature

TCAS Traffic Collision Avoidance System

TCP Technical Crew Passenger

TEMP Temperature

TK Track Angle

TO, T.O. Take-Off

<u>TOC</u> Top of Climb

<u>TOD</u> Top of Descent

TOGA Take-Off and Go-Around

TOGR Take-Off Ground Run

<u>TOW</u> Take-off Weight

<u>TOW</u> Towing

<u>TQ</u> Torque, Torsion force

TRU Transformer Rectifier (Unit)

TTG Time To Go

TURB Turbulence

UNLKD Unlocked

V Volts

 \underline{V}_{app-to} Flap Retraction Speed

V_{CEF} Critical Engine Failure Speed

<u>V</u>e Equivalent Speed

VER Vertical

V_{fe} Maximum Flap Extended Speed

VFR Visual Flying Rules

 \underline{V}_{fto} Take-Off Flap Speed

VHF Very High Frequency Communications

VIB Vibration

V/L VOR/LOC

 V_{LOF} Lift-Off Speed

VMC Visual Meteorological Conditions

 \underline{V}_{MCA} Minimum Control Speed on the Air

V_{MCG} Minimum Control Speed on Ground

 \underline{V}_{MD} Minimum Drag Speed

 \underline{V}_{MO} Maximum Operating Speed

VNAV Vertical Navigation

VOL Volumen

VOR VHF Omni Directional Radio Range

 $\underline{V}_{\mathsf{R}}$ Rotation Speed

 \underline{V}_{RE} Refusal Speed

 $\underline{V}_{\mathsf{REF}}$ Reference Speed

<u>V</u>_S Stalling Speed

V_{SCR} Screen Speed

 \underline{V}_{SR} Stall Reference Speed

 V_{s1g} Stall Speed with 1g

 \underline{V}_{TD} Touchdown Speed

 \underline{V}_{TH} Threshold Speed

 $\underline{V}_{\text{to-up}}$ Flap Retraction Speed

 V_7 Vertical Speed with wind Component

WING LVL Wings Leveled

WOW Weight on Wheels

WPT Way Point

WT Weight

WX Weather

X Cross as (combining prefix)

XFR Transfer

YD Yaw Damper

<u>ZFW</u> Zero Fuel Weight

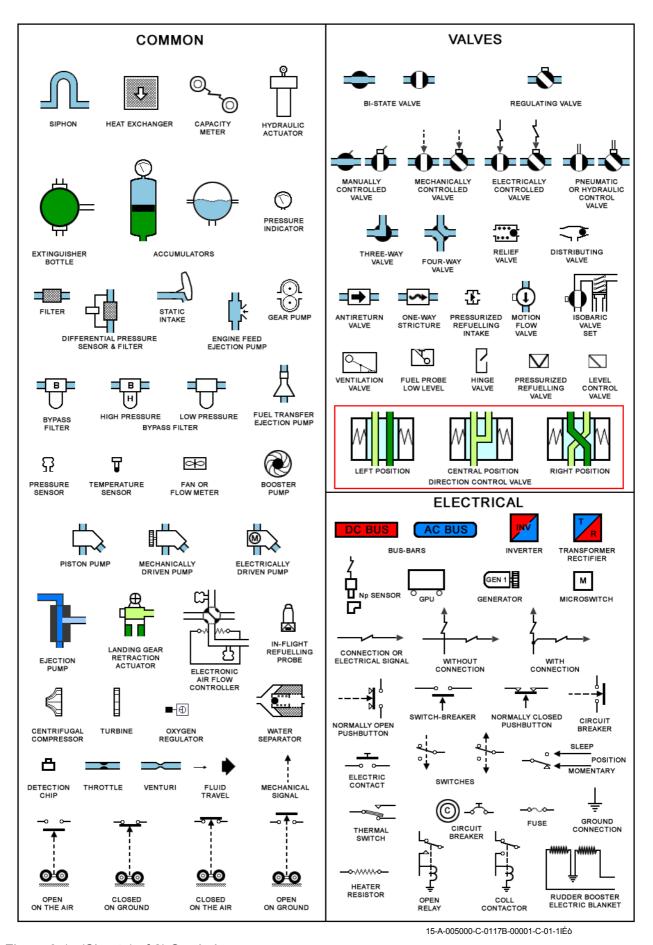
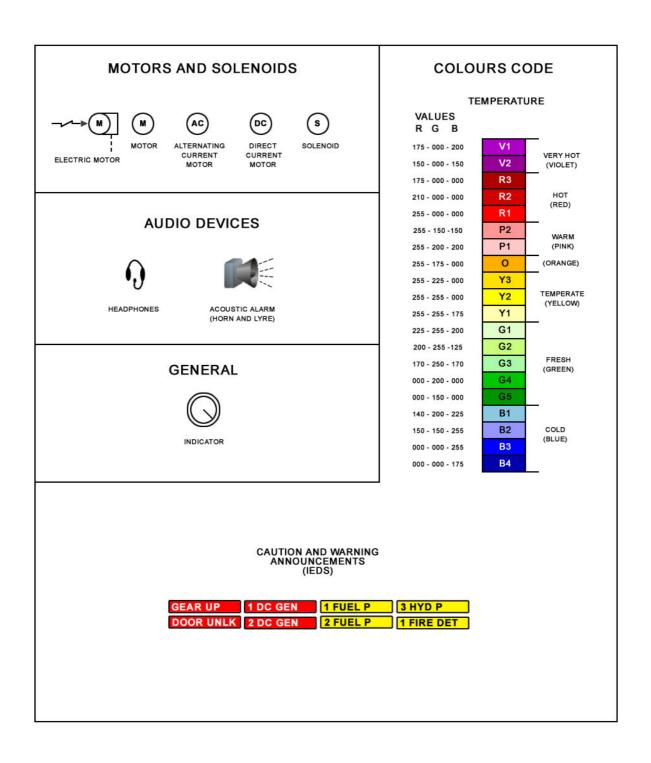


Figure 0-1 (Sheet 1 of 2) Symbols

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