

FLIGHT MANUAL

DELTA SIMULATIONS

C-17A

AIRCRAFT



MILITARY TRANSPORT AIRCRAFT

FOR SIMULATION USE ONLY

SEPTEMBER 2023

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CHAPTER 1 INTRODUCTION

ABOUT THE PROJECT

Delta Simulations was founded in March of 2021, with its first project being the C-17 Globemaster. The team has grown from one to over a dozen developers located around the world. They are all talented individuals who work on projects like this during their limited time off. If you are interested in contributing please fill out the form below.

Discord: <https://discord.com/invite/T99hTme8PS>

Team Application: <https://discord.com/invite/T99hTme8PS>

As a freeware organization, we often have to self-fund necessary software, equipment, and subscriptions to keep our projects going. After 2 years of development and hundreds, if not thousands, of dollars invested into these projects, we are looking to make the group more sustainable in the long term. So, we have decided to open up donations. Donors get a special role on our discord server, as well as sneak peaks of our development.

Paypal: https://www.paypal.com/donate/?hosted_button_id=XAQGKR96M7ZH8

HISTORY

In the 1970s, the United States Air Force was heavily engaged in the Vietnam War. The USAF played a crucial role in the deployment of the troops, bombing, and aerial attacks to help the Army of the Republic of Vietnam. They realized they required a modernization in their fleet. They had used the Lockheed C130 Hercules, which was around 20 years old at the time. On November 13, 1972, the USAF selected the Boeing Corporation and the McDonnell Douglas Corporation to begin a competitive development of a medium-sized tactical aircraft. They both received 181.1 million US dollars (The equivalent of 1.4 billion US dollars in today's currency). The program was later dropped but then picked up again by the USAF for a larger project.

McDonnell Douglas, who developed the YC-15 project, used the YC-15 project to design what is known now as the C-17 Globemaster III. In January 1986, McDonnell Douglas was awarded 3.4 billion US Dollars (The equivalent of 12.2 billion dollars in today's currency) by the USAF for 210 aircraft, which the order later reduced to 120 aircraft.

The first flight of the McDonnell Douglas was made on September 15, 1991. Issues began to rise after the testing program. The design load, the weight, the fuel burn, the payload, and the range specification did not meet the requirements set by the USAF. The Department of Defense reduced the contract size to only 40 aircraft. McDonnell Douglas delayed the program until 1995 to resolve the issues.

Since then, the Department of Defense ordered 184 additional C-17 Globemaster III under both McDonnell Douglas and Boeing. Other countries had an interest in the program. Notably, the Royal Air Force, the Royal Australian Air Force, the Royal Canadian Air Force, and the United Arab Emirates Air Force ordered the C-17. The last aircraft in production was completed in 2015.

C-17 GLOBEMASTER III

RECENT USAGE

The C-17 Globemaster III has been involved in numerous missions throughout its service history, ranging from humanitarian aid and disaster relief to military operations. Here are a few examples:

Royal Australia Air Force

2007	Deliveries of supplies to Papua New Guinea
2008	Deliveries of emergency equipment to Burma
2009	Supply missions to the Middle East
2009	Deliveries of supplies and evacuation team to Samoa
2009	Deliveries of medical personnel in Indonesia
2010	Deliveries of emergency supply to Pakistan
2011	Deliveries of supplies to the Queensland region in Australia
2011	Deliveries of emergency response personnel for Operation Pacific Assist
2011	Deliveries of humanitarian supplies to Libya
2011	Transportation of water purification plant to Samoa
2012	Equipment transportation out of Al Minhad Base
2012	Transportation of supplies to Fiji and Samoa
2013	UN Mission to reinforce peacekeeping Transportation of civilian medical team and equipment to Cebu in Philippines
2013	Philippines
2014	Weapon deliveries to Iraq
2014	Transportation of international police officers and equipment between the Netherlands and Kharkiv in Ukraine
2015	Transportation of supplies in Antarctica
2021	Kabul Airlift
2022	Delivery of military equipment to Ukraine

Royal Canadian Air Force

BOXTOP	Deliveries of supplies to Alert.
UNIFER	Support of the Security Forces of Ukraine
FREQUENCE	Transportation of French military equipment between France and the Sahel Region.
HESTIA	Humanitarian help to the 2010 Haiti Earthquake
MOBILE	Protection of the civils in Libya
AEGIS	Evacuation of afghan refugees.
GLOBE	Airlift support out of Panama Pacifico
RENAISSANCE	Rapid oversea deployments for bushfire relief.

India Air Force

2013	Deployment to Tajikistan
2013	Support of Indian peacekeepers in Rwanda
2015	Evacuation from the Yemen crisis
2015	Deliveries of rescue and relief to Nepal
2016	Evacuation from South Sudan
2020	Troop deployments to the India-China border standoff

C-17 GLOBEMASTER III

Europe

2009	Support of the International Security Assistance Force
2010	Haiti Earthquake relief
2010	Pakistan flood relief
2011	Operation Unified Protector in Libya
2013	United Nations Multidimensional Integrated Stabilization Mission in Mali
2014	EUFOR RCA in Central African Republic
2014	Support for the investigation of Malaysia Airlines MH17 in Ukraine
2015	Resolute Support Mission
2017	Hurricane Relief in St-Marteens
2021	Evacuation of Kabul

Qatar

2011	Operation Odyssey Dawn
2010	Haiti Earthquake relief

United Arab Emirates

Royal Air Force

2003	Support on the Iraq war
2011	Support to the Libya
2013	Transportation of French military equipment to Mali
2013	Transportation of aid efforts to Philippines

United States

2004	Humanitarian help to India with the 2004 earthquake and tsunami
2014	Humanitarian help to Liberia for the Ebola virus epidemic
2021	Kabul Airlift
2010	Haiti Earthquake relief

C-17 GLOBEMASTER III

CHAPTER 2 AIRCRAFT OVERVIEW

ABBREVIATIONS

A

A/S	Airspeed
ACL	Allowable Cabin Load
ACM	Additional Crew Member
ACT	Active Side of CNC Display
ACTR	Actuator
ADC	Air Data Computer
ADS	Aerial Delivery System
ADS-A	Automatic Dependent Surveillance System
ADSC	Aerial Delivery System Controller
ADS	Aerial Delivery System Panel
AEOO	Aeromedical Evacuation Operations Officer
AFCS	Automatic Flight Control System
AGS	Automatic Ground Spoilers
AIDS	Aircraft Integrated Data System
ALPHA	Minimum speed to protect against Stall
ALT	Altimeter or Altitude
ALTN	Alternate
ANT	Antenna
ANVIS	Airman's Night Vision Imaging System
AOA	Angle of Attack
AP	Autopilot
APPR	Approach
APU	Auxiliary Power Unit
AT	Autothrottle
ATS	Autothrottle System
ATT	Attitude
AUD	Audio
AUTO	Automatic
AUX	Auxiliary
AV	Avionics

B

B/D	Bottom of Descent
BARO	Barometric
BATT	Battery
BC	Bus Controller
BCN	Beacon
BD	Bearing and Distance
BRG	Bearing
BRT	Bright

C

C/PDLC	Controller/Pilot Data Link Communication
CAT I	Category I Approach
CAT II	Category II Approach
CAT III	Category III Approach
CAT	Category
CAWS	Central Aural Warning System
CB	Circuit Breakers
CDI	Course Deviation Indicator
CDU	Control Display Unit
CG	Center of Gravity
CHAN	Channel

C

CIU	Control Indicator Unit
CKPT	Cockpit
CKT	Circuit
CLB	Climb
CLK	Clock
CLR	Clear
CMD	Command
CMDS	Counter Measures Dispensing System
CMU	Communication Management Unit
CNX	Cancel
COMM	Communications
CONFIG	Configuration
CONT	Continuous
CP	Copilot
CRS	Course
CRT	Cathode Ray Tube
CRZ	Cruise
CSA	Control Stick Assembly
CSTR	Constraint
CTR	Center
CVR	Cockpit Voice Recorder

D

DB	Database
DECEL	Decelerate
DECR	Decrease
DEG	Degree
DES	Descent
DET	Detector
DEV	Deviation
DH	Decision Height
DIR	Direction
DISAG	Disagree
DISCH	Discharged
DISP	Display
DIST	Distance
DME	Distance Measuring Equipment
DN	Down
DNAV	Degraded Navigation
DRT	Derated Thrust
DSBL	Disable
DTG	Distance To Go
DU	Display Unit

E

E/R	Extended Range
ECs	Environmental Control System
EDS	Electronic Display System
EEC	Electronic Engine Control
EDS	Electronic Display System
EEC	Electronic Engine Control
EFCS	Electronic Flight Control System
EFIS	Electronic Flight Instrument System

C-17 GLOBEMASTER III

E

EFOB	Estimated Fuel On Board
EGT	Exhaust Gas Temperature
ELEV	Elevation
ENG	Engine
ENT	Entered
EPR	Engine Pressure Ratio
EPS	Electrical Power System
ETI	Elapsed Time Indicator
EXT	Extend, Extraction, External

F

F-PLAN	Flight Plan
FAC	Final Approach Course
FC	Flight Control
FCC	Flight Control Computer
FCU	Fuel Control Unit
FF	Fuel Flow
FIREX	Fire Extinguisher
FLT	Flight
FMA	Flight Mode Annunciation
FN	Flight Nurse
FOB	Fuel On Board
FP	Fuel Pressure
FPA	Flight Path Angle
FPFL	Flight Plan Fuel Load
FPS	Feet per Second
FPV	Flight Path Vector
FREQ	Frequency
FSLG	Fuselage
FSP	Fuel System Panel

G

G/A	Go Around
G/S	Glide Slope
GCU	Generator Control Unit
GEN	Generator
GND	Ground
GPS	Global Positioning System
GPWS	Ground Proximity Warning System
GRAD	Gradient
GWT	Gross Weight

H

HDG	Heading
HE	Heavy Equipment
HPT	High Pressure Turbine
HS	Horizontal Stabilizer
HUD	Head Up Display
HYD	Hydraulic

I

IBIT	Initiated Bit
ICS	Intercom System
ID	Identification
IDENT	Identifier
IDG	Integrated Drive Generator
IGN	Ignition
ILS	Instrument Landing System
IMC	Instrument Meteorological Conditions

I

INBD	Inboard
IND	Indicated
INHIB	Inhibit
INIT	Initialize
INST	Instrument
INTCP	Intercept
INTL	Internal
IR	Infrared
IRS	Inertial Reference System
ISOL	Isolation or Isolated

J

JETT	Jettison
-------------	----------

L

LCD	Liquid Crystal Display
LCL	Local
LD	Load
LDG	Landing
LED	Light Emitting Diode
LG	Length
LH	Left Hand
LIM	Limit
LKD	Locked
LM	Loadmaster
LNAV	Lateral Navigation
LT	Light
LVL	Level
LWR	Lower

M

MAG	Magnetic
MAINT	Maintenance
MAN	Manual
MAX	Maximum Thrust
MB	Mission Bus
MBIT	Maintenance BIT
MCL	Master Caution Light
MCT	Maximum Continuous Thrust
MDA	Minimum Descent Altitude
MECH	Mechanical
MFC	Multifunction Control
MFD	Multifunction Display
MIC	Microphone
MIN	Minimum
MLG	Main Landing Gear
MON	Monitor
MSG	Message
MSN	Mission
MW	Master Warning
MWL	Master Warning Lights

N

N1	Low Stage Compressor RPM
N2	High Stage Compressor RPM
NAV	Navigation
ND	Navigation Display
NLG	Nose Landing Gear
NML	Normal

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N

NORM	Normal
NVG	Night Vision Goggles
NWS	Nose Wheel Steering

O

OBST	Obstacle
OP	Operative
OPR	Operate
ORIG	Original
OUTBD	Outboard
OVHD	Overhead
OVHT	Overheat
OW	Operating Weight

P

P	Pilot
PA	Passenger Address, Pressure Altitude
PART	Partial
PCH	Pitch
PERS	Personnel
POS	Position
PPOS	Present Position
PRE	Presets
PRED	Prediction, Predicted
PRESS	Pressurization
PRI	Primary
PRGM	Program
PROG	Progress
PROX	Proximity
PSI	Pounds per Square Inch
PT	Point
PTT	Push to Talk
PW	Pratt And Whitney
PWR	Power

Q

QNH	Sea Level Atmospheric Temperature
QTY	Quantity

R

R/C	Rate of Climb
RA	Radar Altimeter, Radio Altitude
RAD	Radio
RAT	Ram Air Turbine
RDR	Radar
REC	Receive
REF	Reference
REVR	Reverse
RH	Right Hand
RSVR	Reservoir
RTE	Route
RTG	Rating
RTO	Rejected Take Off
RUD	Rudder
RWY	Runway

S

S/N	Standby/Normal
S/O	Shutoff

S

SAT	Static Air Temperature
SATCOM	Satellite Communications
SEC	Secondary
SEL	Select
SEQ	Sequence
SOL	Souls On Board
SPD	Speed
SPD BRK	Speedbrake
SPL	Spoiler
SQL	Squelch
STAB	Stabilizer
STAT	Status
STD	Standard
SYS	System

T

T/O	Takeoff
TAC	Tactical
TAT	Total Air Temperature
TAWS	Terrain Awareness Warning System
TAZ	Tactical Avoidance Zone
TBD	To Be Determined
TCAS	Traffic Collision Avoidance System
TOD	Time Of Day
TOGA	Takeoff/Go-Around
TOGW	Takeoff Gross Weight
TOLD	Takeoff and Landing Data
TURB	Turbulence Mode

U

UHF	Ultra-High Frequency
UNLK	Unlock
UV	Ultraviolet

V

V/S	Vertical Speed
V_{APP}	Approach Speed
V_{BMAX}	Brake Limit Speed
V_H	Level Flight Maximum Speed
V_{ROT}	Rotation Speed
VEL	Velocity
VMC	Visual Meteorological Condition
VNAV	Vertical Navigation
VV	Vertical Velocity

W

WACS	Warning and Caution System
WOW	Weight On Wheels
WPT	Waypoint
WT	Weight
WX	Weather
WXR	Weather Radar

X

X-FEED	Crossfeed
XW	Crosswind

Z

ZFW	Zero Fuel Weight
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C-17 GLOBEMASTER III

AIRCRAFT SPECIFICATION

Exterior Dimensions

Span	169 ft 10 in.
Length	174 ft.
Height	55ft 1 in.
Wing Sweep	25°
Wing Area	3800 sq ft.

Speeds

Maximum Range Cruise Speed	0.74 M
Typical Long Range Cruise Speed	0.76 M
Service Ceiling	45 000 ft.

Engines

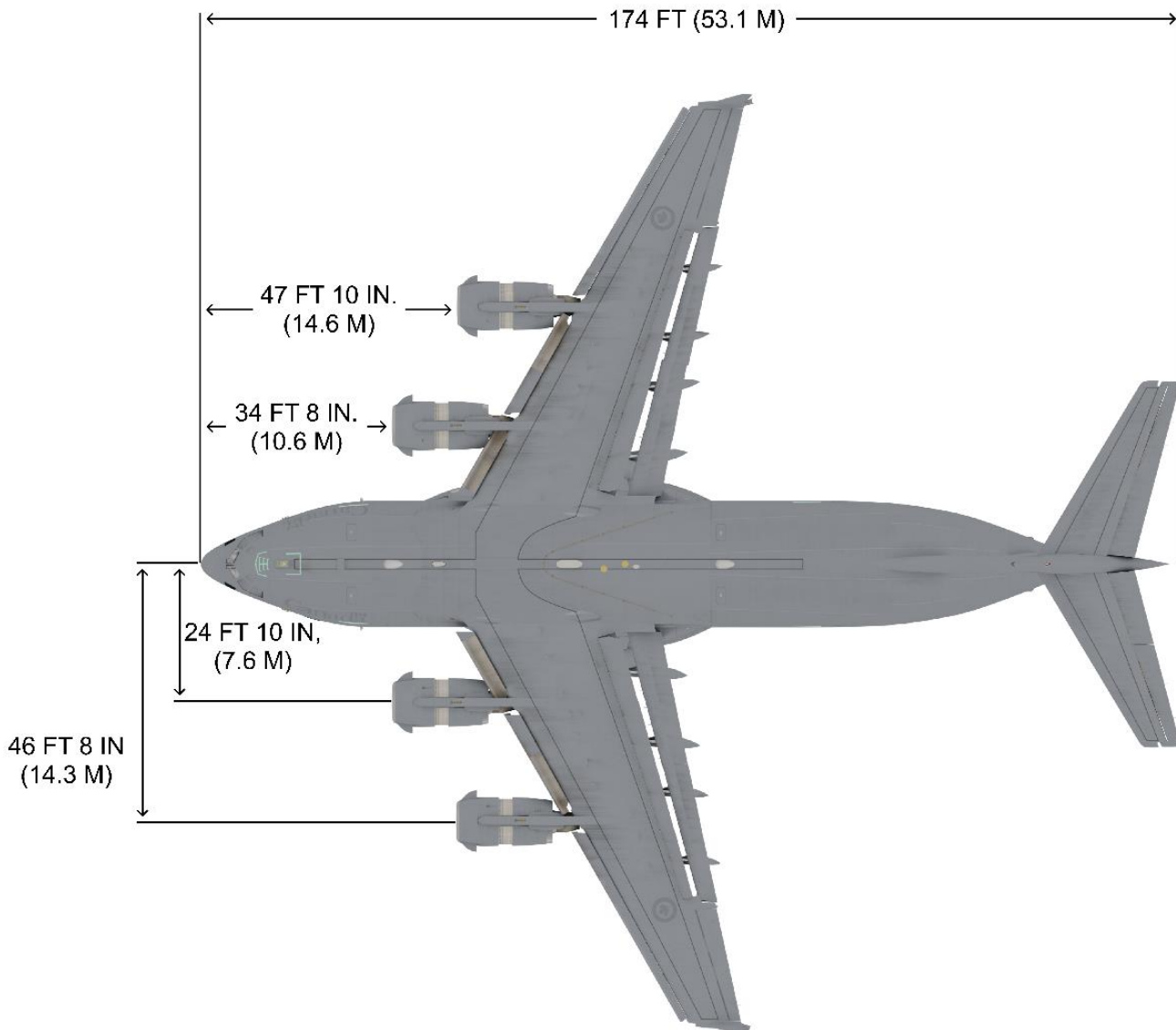
4 x Pratt & Whitney F177-PW100

Interior Dimensions

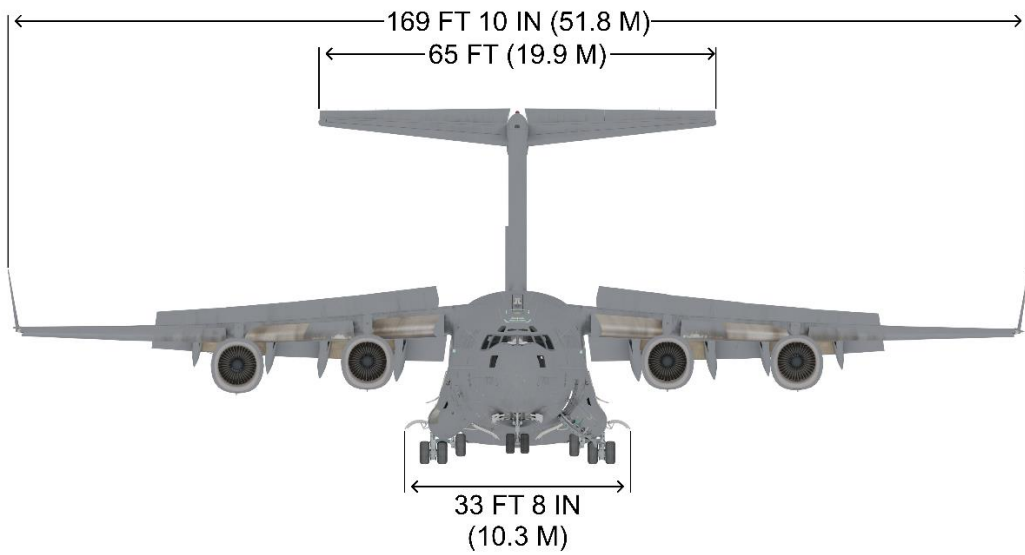
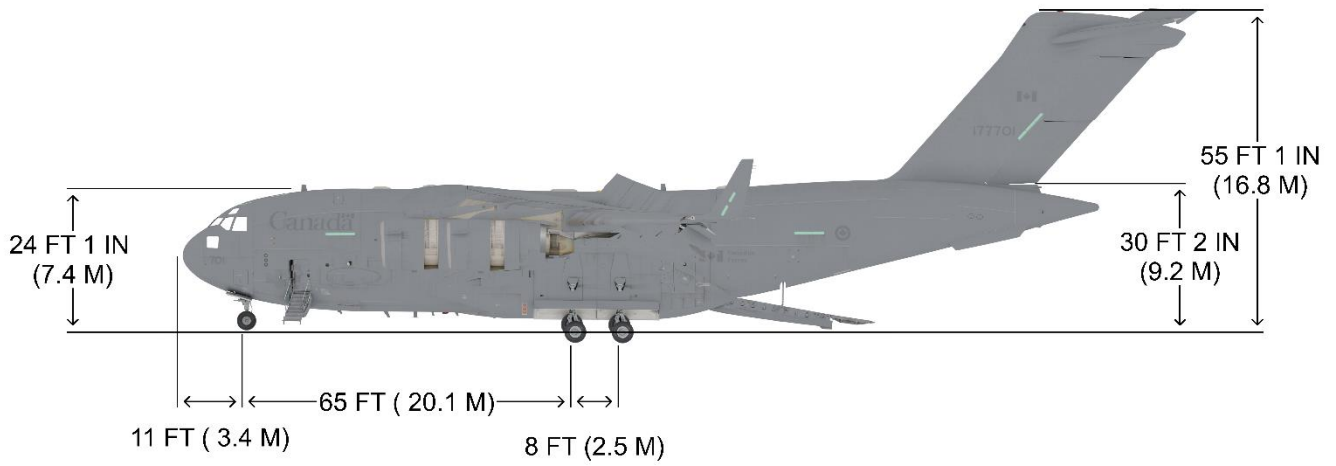
Width	216 in.
Length	1056 in.
Height	148 in.

Weights

Operating Weight	282500 lb.
Maximum Payload	170900 lb.
Zero Fuel Weight	447400 lb.
Usable Fuel Capacity	36508 gal.
Maximum Ramp Weight	586000 lb.
Maximum Takeoff Gross Weight	585000 lb.
Design Landing Gross Weight	435800 lb.
Maximum Landing Gross Weight	585000 lb.



C-17 GLOBEMASTER III



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AIRCRAFT PERFORMANCE AND LIMITATIONS

Maximum OAT For Takeoff			
Airfield Pressure Altitude (FT)	Max OAT (Deg C)	Airfield Pressure Altitude	Max OAT (Deg C)
-2 000	49	7 500	39
0	49	8 000	38
500	49	8 500	37
1 000	49	9 000	36
1 500	49	9 500	35
2 000	49	10 000	34
2 500	49	10 500	33
3 000	48	11 000	32
3 500	47	11 001	27
4 000	46	11 500	26
4 500	45	12 000	25
5 000	44	12 500	24
5 500	43	13 000	23
6 000	42	13 500	22
6 500	41	14 000	21
7 000	40		

Engine Operating Limitations				
Operating Conditions		Operating Limits		
Thrust Settings	Time Limit	Maximum EGT	Minimum Oil Pressure	MAX Oil Temp
MAX/DRT	5 MIN	655°C	80 PSI	177°C
INT	-	625°C	80 PSI	177°C
MCT	-	625°C	80 PSI	177°C
IDLE/IDLE REVERSE	-	460 / 490°C	70 PSI	177°C
STARTING	-	495°C	-	
REVERSE	-	635°C	80 PSI	177°C

Maneuver Limitations for Abnormal Configuration – In-Flight Reverse Thrust		
Gross Weight (lb)	Zero Fuel Weight (lb)	Load Factor (G)
585 000	447 400	1.40
549 000	399 200	1.55
423 000	356 500	1.85

Airspeed Limitations		
Item	Configuration	Airspeed Limit
Maximum Airspeed	Clean	350 KCAS/Mach 0.825
Thrust Reverser In Flight	Extend/Slow	350 KCAS/Mach 0.825
Thrust Reverser On Ground	Extend/Slow	182 KCAS
Slats	Extend	280 KCAS/Mach 0.62
Slats	Retract	270 KCAS/Mach 0.62
Flaps	1/2	250 KCAS/Mach 0.62
Flaps	3/4	190 KCAS/Mach 0.62

C-17 GLOBEMASTER III

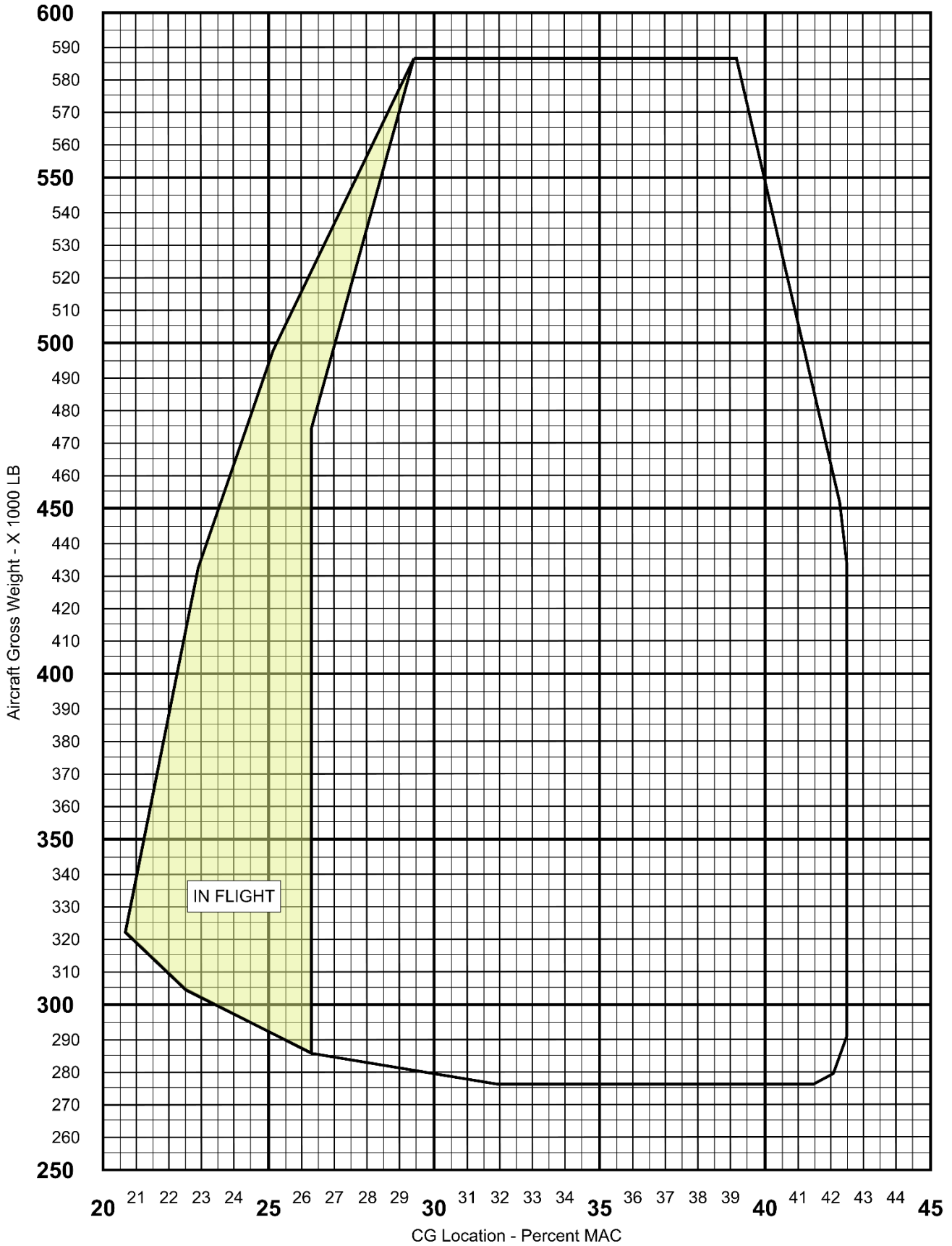
Flaps	Full	175 KCAS/Mach 0.62
Speed brakes	Full	
Landing Gear	Extending	250 KCAS
Landing Gear	Retracting	225 KCAS
Landing Gear	Down/Locked	250 KCAS
Air Deflector	Open	250 KCAS
Troop Doors	Opening/Open	250 KCAS
Cargo Door/Ramp	Opening/Open	250 KCAS
Pilots Windows	Open	205 KCAS

Maximum Landing Touchdown Sink Rate		
Landing Gross Weight (lb)	Zero Fuel Weight (lb)	Feet/Min
585 000	447 600	600
502 100	447 400	660
435 800	400 500	750

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C-17 GLOBEMASTER III

WEIGHT AND BALANCE



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CHAPTER 3 SYSTEMS

AIRFRAME

The C-17 Globemaster III is a high wing aircraft.

BRAKE SYSTEM

COMMUNICATION

ELECTRICAL SYSTEM

ENGINES

LIGHTING

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FLIGHT CONTROL**CENTRAL AURAL WARNING SYSTEM**

Alert Indicated	Aural Alert Characteristic	Visual Indication	Condition Indicated	Silence	Test
ALTITUDE	"C" chord once for a second.	None	Approach within 1,000 ft. of selected altitude and approach within 250 ft. of selected altitude.	Not required	None
ALTITUDE DEVIATION	"C" chord once followed by repeated word "ALTITUDE"	None	Aircraft deviates more than 250 ft. from the selected altitude once the aircraft has approached the selected altitude within 250 ft.	Approach selected altitude within 250 ft. or press reset switch on AFCS panel.	None
APU FIRE	Three successive fast bell sounds followed by and alternates with words "APU FIRE."	MASTER WARNING light. APU Fire light. Fire Loop A and B lights on remote panels.	Fire/overheat in APU compartment.	Press MASTER WARNING light or deactivate. Other lights remained illuminated until heat condition is cleared.	Press Loop A and Loop B switches simultaneously.
AUTO THROTTLE	Warble sound once followed by repeated words "AUTO THROTTLE."	Autothrottle disconnect annunciator on pilot and copilot instrument panel.	Autothrottle disengaged.	Reset by pushing autothrottle disconnect button on throttle or re-engage ATS,	None
AUTOPILOT	Warble sound once followed by repeated words "AUTO PILOT."	Autopilot disconnect annunciator on pilot and copilot instrument panel.	Autopilot disengaged.	Reset by pushing autopilot disconnect button on control switch or re-engage autopilot.	None

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CABIN ALTITUDE	Warning atenson followed by repeated words "CABIN ALTITUDE."	WAP message and MASTER WARNING light.	Cabin altitude has exceeded 10,000 feet.	Descend or repressurize cabin, or press MASTER WARNING light.	None
DECISION HEIGHT	The word "MINIMUMS" and a tone will sound upon reaching selected altitudes.	DH shown on both side PFD's when condition is met.	Altitude at selected DH.	None required	None
ENGINE FIRE	Two successive fast bell sounds followed by repeated words "FIRE, NUMBER 1 ENGINE" and/or No. 2, 3 or 4 engine as appropriate.	MASTER WARNING light. Associated FIRE HANDLE PULL Handle, LOOPS A and B lights and X ENG fuel light.	Fire/overheat in engine nacelle.	Alert silenced by pulling fire handle or pressing MASTER WARNING light. Lights remained illuminated until fire is out.	Press Loop A and Loop B switches simultaneously.
FUEL TANK PRESSURE	Warning atenson once followed by repeated words "FUEL TANK PRESSURE."	Fuel tank pressure warning light, MASTER WARNING light, FUEL INERT cue.	Left or right wing fuel tank overpressure/underpressure.	Press MASTER WARNING light.	None

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GROUND PROXIMITY MODE 1	The word "SINKRATE" continues until condition is corrected.	Red GROUND PROX lights on glareshield.	Excessive rate of descent within 10,000 feet of terrain.	Reduce sink rate.	GPWS test.
GROUND PROXIMITY MODE 2A	Whoop-whoop sound followed by and alternates with words "TERRAIN, FLY-UP." Alert continues until condition is corrected.	Red GROUND PROX lights on glareshield.	Excessive terrain closure.	Fly up	GPWS test.
GROUND PROXIMITY MODE 2B	The words "TERRAIN, FLY-UP" continue until condition is corrected. No attenuation.	Red GROUND PROX lights on glareshield.	Excessive terrain closure – flap at setting of ½ detent or greater.	Fly up	GPWS test.
GROUND PROXIMITY MODE 3B	The word "SINKING" continues until condition is corrected.	Red GROUND PROX lights on glareshield.	Accumulated altitude loss after TO/GA while below 500 ft.	Fly up	GPWS test.

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GROUND PROXIMITY MODE 4A	Whoop sound followed by words "TOO LOW, GEAR." Alert continues until condition is corrected or reset.	Red GROUND PROX lights on glareshield.	Inadvertent proximity to terrain, gear up, 1/2 flap detent or less.	<ol style="list-style-type: none"> 1. Press Aural Silence button on the pedestal. 2. Lower the landing gear or SEL altitude to minimize low level nuisance warning. 	GPWS test.
GROUND PROXIMITY MODE 4B	Whoop sound followed by words "TOO LOW, GEAR." Alert continues until condition is corrected.	Red GROUND PROX lights on glareshield.	Gear up and flap handle past 1/2 detent.	Lower the landing gear or SEL altitude to minimize low level nuisance warning.	GPWS test.
GROUND PROXIMITY MODE 4C	Whoop sound followed by words "TOO LOW, FLAPS." Alert continues until condition is corrected or reset.	Red GROUND PROX lights on glareshield.	Incorrect flap configuration below 500 feet.		GPWS test.
GROUND PROXIMITY MODE 5A		Red GROUND PROX lights on glareshield.			GPWS test.

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GROUND PROXIMITY MODE 5B		Red GROUND PROX lights on glareshield.			GPWS test.
MASTER CAUTION	Caution tone once	MASTER CAUTION light	One or more WAP caution messages or distributed cautions are illuminated.	None	None
MDA	The word "MINIMUMS" and a "C" chord will sound upon reaching selected altitudes.				
OVERSPEED S					

C-17 GLOBEMASTER III

PERFORMAN CE DECREASE WINDSHEAR	The word "WINDSHEAR" repeats at least three times.	PFD warning alert of WINDSHEAR.	MC calculated performance decrease windshear.	Clears when condition resolves.	None

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PITCH AUTHORITY	Warning atenson followed by repeated words "PITCH AUTHORITY."	MASTER WARNING light and PITCH AUTHORITY message on the WAP.	Pitch control is out of trim because the stabilizer is at the deflection limit and the elevator is mistrimmed by 50% of the full hinge capability.	Press the MASTER WARNING light.	None
STALL	Warning Klaxon once followed by word "STALL."	Primary flight displays.	Approaching stall condition for flap/slat configuration.	Correct stall conditions.	Stall test switch.
STABILIZER MOTION					
TAKEOFF WARNING					

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CHAPTER 4 STANDARD OPERATING PROCEDURES

NOTE: Text in grey is **INOP / NOT IMPLEMENTED**

EXTERIOR SAFETY INSPECTION

- P | GROUND SUPPORT FIRE EXTINGUISHER(S)..... **IN PLACE**
- P | EXTERNAL POWER CART..... **AS REQUIRED**
- P | NOSE GEAR PIN..... **INSTALLED**
- P | GROUND WIRES..... **AS REQUIRED**
- P | APU INTAKE AND EXHAUST..... **CLEAR**
- P | MAIN LANDING GEAR CHOCKS..... **INSTALLED**

INTERIOR SAFETY INSPECTION

CP SAFETY SWITCH PINS.	INSTALLED
CP DEFENSIVE SYSTEM WOW MAINT ORIDE SWITCHES.	NORMAL
CP CIRCUIT BREAKERS.	VERIFY
CP CMDS SYS ARMED SWITCHLIGHT.	EXTINGUISHED
CP CMDS JETT SWITCH.	OFF
CP GEAR HANDLE.	DOWN
CP ENGINE IGNITION NORM/ORIDE SWITCH.	NORM
CP ENGINE IGNITION SELECTOR SWITCH.	OFF
CP ENGINE SHUT OFF SWITCHES.	OFF
CP FLOW LINE PWR SWITCH.	ALTN
CP GND OPS PWR SWITCH.	OFF
CP EMERG PWR SWITCH.	OFF
CP BATT SWITCH.	ON/LOCKED
CP DC X TIE SWITCH.	TIE
CP XFER BUSES SWITCH.	OFF
CP EMERG PWR SWITCH.	ON
CP XFER BUSES SWITCH.	NORM
CP L/R AV BUS SWITCHES.	AUTO
CP WAP.	VERIFY
CP FUEL PANEL SWITCHLIGHTS.	OFF
CP HYD PANEL SWITCHLIGHTS.	OFF
CP ENVIR PANEL SWITCHLIGHTS.	OFF
CP COM 1/VHF RADIOS.	ON
CP APU/ENG FIRE DETECTION SYS.	VERIFY
CP LOOP A AND LOOP B PUSHBUTTONS.	PRESS
CP LOOP A AND LOOP B LIGHTS	10 AMBER ON
CP FIRE PULL LIGHTS.	4 RED ON
CP MASTER WARNING LIGHTS.	2 RED ON
CP APU FIRE LIGHT.	RED ON
CP WAP CUE MESSAGE.	APU
CP CAWS ACTIVATION RESULTS.	AS EXPECTED
CP EXT PWR SWITCH.	ON

C-17 GLOBEMASTER III

CP | APU..... **START/RUN/LOAD**
CP | FIREX AGENT DISCHARGE 1 POWER CB..... **VERIFY**
CP | APU PWR SWITCH..... **ON**
CP | START CONTR SWITCH..... **RUN**
CP | START CONTR SWITCH..... **START**
CP | FUEL BOOST PUMP #3..... **ON**
CP | EMERG PWR SWITCH..... **AUTO**
CP | AC X TIE SWITCH..... **AUTO**
CP | AC/DC BUS TIE SWITCH FLOW LINES..... **ILLUMINATED**
CP | SMOKE DETECTION SYS..... **ARM**
CP | BAILOUT ALARM..... **TEST**
CP | EMERG LT..... **ARM**
CP | GND OPS PWR STICH..... **AS REQUIRED**

EXTERIOR INSPECTION

- P | GROUND SUPPORT FIRE EXTINGUISHERS. **IN PLACE**
- P | NOSE AREA. **VERIFY**
- P | NOSE WHEEL WELL. **VERIFY**
- P | FORWARD FUSELAGE, RIGHT SIDE, AND BOTTOM. **VERIFY**
- P | RIGHT WHEEL POD AND CENTER FUSELAGE. **VERIFY**
- P | SPR PANEL AND RECEPTACLES. **VERIFY**
- P | RIGHT WING SURFACE AND FLAPS. **VERIFY**
- P | ENGINE #3 AND #4 AREAS. **VERIFY**
- P | RIGHT WING. **VERIFY**
- P | AFT FUSELAGE AND TAIL. **VERIFY**
- P | LEFT WING. **VERIFY**
- P | ENGINE #1 AND #2 AREAS. **VERIFY**
- P | LEFT WING SURFACES AND FLAPS. **VERIFY**
- P | LEFT WING POD AND CENTER FUSELAGE. **VERIFY**
- P | FORWARD FUSELAGE, LEFT SIDE. **VERIFY**
- P | CREW ENTRANCE DOOR AND LADDER. **VERIFY**

COCKPIT PREPARATION

CP GND OPS PWR SWITCH.	OFF
CP FLIGHT DECK EQUIPMENT.	VERIFY
CP CIRCUIT BREAKERS.	VERIFY
CP MAINTENANCE INTERFACE PANEL.	CLOSED
CP UARRSI DOOR HANDLE.	CLOSED
P FLAPS/SLAT HANDLE.	SET
CP PARKING BRAKES.	ON
CP WAP.	VERIFY
CP INTERIOR/EXTERIOR LIGHTS.	AS REQUIRED
CP ANNUNCIATOR/DIGITAL LIGHTS.	TEST
CP A/R ANN.	ON
CP ANN/DIGT TEST PUSHBUTTON.	HOLD
CP ANN/DIGT TEST PUSHBUTTON.	RELEASE
CP AR/ANN.	OFF
CP IRU 1, 2, 3, 4 SWITCHES.	ON
CP SENSOR SWITCHING PANEL.	SET
CP HUD, MCD AND MFD.	ADJUSTED
CP COMM/NAV RADIOS.	VERIFY
CP IRMS CIPHER KEYS.	AS REQUIRED
CP STANDBY FLIGHT INSTRUMENTS.	VERIFY
CP FLOW LINE PWR SWITCH.	NORM
CP FCC ELECTIC PFBIT.	ACCOMPLISH
CP SCEFC ELECTRIC PFBIT.	ACCOMPLISH
CP FCS ACTR PANEL.	EFCS
CP EFCS RESET PUSHBUTTON.	PRESSED
CP SEFC PREFLT SWITCHLIGHT.	PRESS AND HOLD
CP AR MODE SWITCH.	PRESS
CP SCEFC PRFLT SWITCHLIGHT.	RELEASE
CP FCC PREFLT SWITCHLIGHT.	PRESS AND HOLD
CP AUTOPILOT DISENGAGE SWITCH.	PRESS
CP FCC PREFLT SWITCHLIGHT.	RELEASE

C-17 GLOBEMASTER III

CP ELT SWITCH.	NORM
CP FED ARM SWITCH.	DISARM
CP COMM SWITCH PANEL.	SET
CP CVR.	VERIFY
CP CVR TEST PUSHBUTTON.	PRESS AND HOLD
CP CVR TEST RESULT.	AUDIBLE
CP CVR TEST PUSHBUTTON.	RELEASE
CP INERT PANEL.	SET
CP WINGS VENT SWITCHLIGHTS.	CLOSED
CP OBIGGS LEFT AND RIGHT SWITCHLIGHTS.	ON
CP FUEL TANK PRESSURE LIGHT.	EXTINGUISHED
CP ELECTRICAL PANEL.	SET
CP FUEL PANEL.	SET

Aerial Refueling Missions

CP A/R ANN.	ON
CP UARSSI DOOR.	OPEN
CP A/R MASTER SWITCHES.	ON
CP A/R READY LIGHT.	ON
CP A/R ANN.	OFF
CP A/R MASTER SWITCHES.	OFF
CP UARRSI DOOR.	CLOSED

Other Missions

CP ENG SHUT OFF SWITCHES.	OFF
CP FUEL QTY CHAN SEL.	AUTO
CP FWD AND AFT PUMPS.	OFF
CP X-FEED VALVES.	CLOSED
CP FILL VALVES AND XFER PUMPS.	OFF
CP UPPER ROW SWITCHLIGHTS.	OFF
CP HYD PANEL.	SET
CP HYDRAULIC PUMPS.	OFF
CP HYDRAULIC SYSTEM QUANTITIES.	VERIFY

C-17 GLOBEMASTER III

CP ENVIR PANEL.	SET
CP REMOTE TEMP CONTR.	SET
CP COMPT AIR FLOW.	ON
CP RAM AIR SWITCH.	HOLD
CP TRIM AIR.	ON
CP AVIONICS COOL ORIDE.	OFF
CP HI FLOW.	OFF
CP ENG PNEUMATIC SOV SWITCHLIGHT.	OFF
CP STALL TEST.	TEST
CP N°1.	TURN AND HOLD
CP AURAL ALERT AND SHAKERS.	ACTIVATED
CP ANTI ICE PANEL.	SET
CP W/S DEFOG.	ON
CP L AND R W/S ANTI-ICE.	OFF
CP WING ANTI-ICE.	OFF
CP ENG ANTI-ICE.	OFF
CP PROBE HEAT.	OFF
CP PERS WARN SIGNS.	SET
CP NO SMOKING SIGN.	ON
CP SEAT BELTS SIGN.	ON
CP OXYGEN MASK SWITCHLIGHT.	EXTINGUISHED
CP ENGINE FIRE PULL HANDLES.	ALL IN
CP STBY ENG SEL.	N2
CP ANTI-SKID/BRAKE TEMP SWITCH.	ARM
CP OXY CROSS FEED SWITCH.	CLOSE
CP CREW MANUAL OXYGEN SHUTOFF VALVE.	OPEN
CP OXYGEN QUANTITY.	VERIFY

C-17 GLOBEMASTER III

CP OXYGEN.	VERIFY
CP MASK.	CLEANED
CP OXYGEN PRESSURE.	VERIFY
CP REGULATOR SUPPLY LEVER.	ON
CP DILUTER LEVER.	100% OXYGEN
CP MASK, HEADSEHT, HOSE, AND CONNECTORS.	CONNECTED
CP MICROPHONE.	VERIFY
CP PURGE VALVE.	CLOSED
CP SUPPLY LEVER.	OFF
CP SUPPLY LEVER.	ON
CP EMERGENCY TOGGLE LEVER.	EMERGENCY
CP EMERGENCY TOGGLE LEVER.	NORMAL
CP PURGE VALVE.	OPEN
CP QUICK-DON ASSEMBLY.	STOWED
CP ICS PANEL.	SET
CP MWS/IRC, CIU PANELS.	OFF
CP CMDS PANEL.	OFF
CP DEFENSIVE SYSTEMS PANEL.	SET
CP ADS PANEL.	VERIFY
CP RADAR.	STANDBY
CP HDG REF SEL SWITCHES.	AS REQUIRED
CP CABIN PRESS PANEL.	SET
CP MISSION COMPUTER.	INITIALIZED
P MISSION COMPUTER DATA.	VERIFY
P POSITION.	VERIFY
P FLIGHT PLAN.	VERIFY
P TOLD DATA.	VERIFY
P SKE PREFLIGHT.	COMPLETED
P AIR DROP DATA.	AS REQUIRED
CP IRU 1, 2, 3, 4.	NAV
CP IFF.	VERIFY
CP SKE.	AS REQUIRED
CP COCKPIT PRINTER.	ON

C-17 GLOBEMASTER III

CP | SCEFC HYDRAULIC PFBIT. AS REQUIRED
CP | FCC HYDRAULIC PFBIT. AS REQUIRED
CP | TRIM SYSTEMS. **VERIFY**
CP | AIRLINE OPERATIONAL CONTROL. ON
CP | FCS ACTR PANEL. FULL MECH
CP | EFCS RESET PUSHBUTTON. PRESS
P | DEPARTURE BRIEFING. **COMPLETED**

BEFORE ENGINE START

- CP | COMM RADIOS..... **SET**
- CP | OXYGEN..... **VERIFIED AND ON**
- P | APU AND EXTERNAL EQUIPMENT..... **AS REQUIRED**
- P | PARKING BRAKES..... **ON**
- P | CHOCKS..... **REMOVE**
- P | WAP..... **VERIFY**
- P | FUEL QUANTITY..... **VERIFY**
- P | FUEL MANAGEMENT..... **AS REQUIRED**
- P | ACM/PASSENGER BRIEFING..... **COMPLETED**
- P | EXTERIOR CLEARANCE..... **ALL CLEAR**
- CP | BEFORE ENGINE START CHECKLIST..... **COMPLETED**

ENGINE START

- CP | MFD 2, 3. **SET FOR ENGINE START**
- CP | NAV LIGHT. **ON**
- CP | ANTI-COLLISION LIGHT. **FSLG/WING**
- P | ENGINE IGNITION SELECTOR SWITCH. **SET A OR B OR A&B**
- P | FUEL USED PUSHBUTTON. **RESET**
- P | THROTTLE. **IDLE OR IDLE REV**
- P | BLEED AIR SUPPLY PRESSURE. **VERIFY**
- P | ENGINE START. **START**
 - P | IGNITION. **SELECTED**
 - P | START BUTTON. **PRESS**
 - P | ENGINE SHUTOFF SWITCH. **ON**
 - P | ENGINE PARAMETERS. **VERIFY**
- REPEAT FOR EACH ENGINES.
- P | ENVIR PANEL. **SET**
 - P | ENG PNEUMATIC SOV SWITCHLIGHTS. **OPEN**
 - P | APU AIR. **OFF**
 - P | ISOL VALVE. **CLOSED**
- CP | ENGINE ANTI-ICE. **AS REQUIRED**
- CP | PROBE HEAT. **AS REQUIRED**
- CP | ENGINE START CHECKLIST. **COMPLETED**

C-17 GLOBEMASTER III

BEFORE TAXI

P DC X TIE SWITCH.....	AUTO
P IRCM.....	AS REQUIRED
P HYDRAULIC XFER PUMP.....	AUTO
P FLAPS/SLATS.....	VERIFY
P FCS ACTR PANEL FLAP SWITCH.....	ECFS
P FLAPS/SLATS.....	FULL/EXTN
P FLAPS/SLATS.....	UP/RET
P FLIGHT CONTROLS.....	VERIFY
P FLIGHT CONTROL SURFACES.....	VERIFY
P FCS ACTR PANEL SWITCHES.....	EFCS
P FLIGHT CONTROL SURFACES.....	VERIFY IN EFCS
P APU AND EXTERNAL EQUIPMENT.....	OFF AND DISCONNECTED
P SKE.....	AS REQUIRED
CP TCAS/TAWS.....	AS REQUIRED
P FCC HYDRAULIC PREFLT TEST.....	ACCOMPLISH
P SEFC HYDRAULIC PREFLT TEST.....	ACCOMPLISH
P FCC AND SCEFC PREFLT TEST SWITCHLIGHTS.....	EXTINGUISHED
P EFCS RESET PUSHBUTTON.....	PRESS
PF TOGA MODE.....	ENGAGED
P TOLD.....	VERIFY
CP STBY ENG SEL.....	EPR
CP THRUST RATING.....	SET
CP FLAP INDEX.....	SET ___
P STABILIZER RUDDER AND AILERON TRIMS.....	_____ DEGREES, 0, 0
P ALTIMETERS.....	SET
PF DEPARTURE BRIEFING.....	COMPLETED
LM MAINTENANCE LADDER.....	SECURED
P GROUND CLEARANCE.....	ALL CLEAR
CP MCD MSG/STS.....	VERIFY
P COCKPIT WINDOWS.....	CLOSED
CP HYDRAULIC RESERVOIR TEMPERATURES.....	VERIFY

C-17 GLOBEMASTER III

P | SAFETY SWITCH PINS..... **AS REQUIRED**

CP | WAP..... **VERIFY**

LM | LOADMASTER REPORT..... **OBTAIN**

CP | BEFORE TAXI CHECKLIST..... **COMPLETED**

C-17 GLOBEMASTER III

BEFORE TAKEOFF

PF | BRAKES, STEERING, CONTROL STICK. **VERIFY**
PF | FLIGHT INSTRUMENTS. **VERIFY**
PNF | SPOILERS. **ARM**
PNF | RADAR. **AS REQUIRED**
PNF | DEFENSIVE SYSTEM. **AS REQUIRED**
PNF | SKE FCI. **AS REQUIRED**
PNF | PROBE HEAT SWITCHLIGHT. **ON**
PNF | FUEL BOOST PUMPS. **ON**
PF | WAP. **VERIFY**
PF | SLATS/FLAPS. **SLATS EXTENDS, FLAPS 1/2**
PNF | HYDRAULIC RESERVOIR TEMPERATURE. **VERIFY**
PNF | EXTERIOR LIGHTS. **AS REQUIRED**
PNF | IFF. **AS REQUIRED**
PNF | BEFORE TAKEOFF CHECKLIST. **COMPLETED**

C-17 GLOBEMASTER III

TAKEOFF

PF | BRAKES..... **HOLD**
PF | THRUST SETTINGS..... **1.15 EPR**
PF | THRUST SETTINGS..... **STABILIZED**
PF | BRAKES..... **RELEASE**
PNF | 80 KNOTS..... **ANNOUNCE**
PF | FMA..... **VERIFY CLMP**
PNF | ROTATE..... **ANNOUNCE**
PF | ROTATION..... **PERFORM**
PF | PITCH TARGET..... **12°**

C-17 GLOBEMASTER III

AFTER TAKEOFF/CLIMB

PNF | POSITIVE RATE. **ANNOUNCE**
PF | GEAR UP. **ORDER**
PNF | LANDING GEAR LEVER. **SELECT UP**
PNF | GEAR UP. **CONFIRM THREE GREEN**
PF | AUTOPILOT. **AS REQUIRED**
PF | FLAPS UP **ORDER**
PNF | FLAPS. **SELECT UP**
PF | CLIMB POWER. **ANNOUNCE**
PNF | CLIMB THRUST. **SELECT MCT OR INT**
PF | SLATS UP. **ANNOUNCE**
PNF | SLATS. **SELECT UP**
PF | CLIMB SPEED. **250 KCAS UNTIL 10,000 FT/310KCAS ABOVE 10,000 FT**
PNF | SPOILERS SWITCH. **DISARM**
PNF | ANTI ICE. **AS REQUIRED**
PNF | PRESSURIZATION/AIR CONDITIONING PACKS. **VERIFY ON**
CP | CREW OXYGEN QUANTITY. **__ LITERS**
PNF | DEFENSIVE SYSTEM. **AS REQUIRED**
PNF | AFTER TAKEOFF CHECKLIST. **COMPLETED**

CRUISE

- PNF | ALTIMETERS..... **SET**
- PNF | ANTI-ICE..... **AS REQUIRED**
- PNF | PRESSURIZATION..... **VERIFY**
- CP | CREW OXYGEN QUANTITY **__ LITERS**
- PNF | EXTERIOR LIGHTS..... **AS REQUIRED**
- PNF | ENGINE IGNITION SELECTOR SWITCH..... **AS REQUIRED**
- PNF | PERS WARN SIGNS..... **AS REQUIRED**
- PNF | DEFENSIVE SYSTEM..... **AS REQUIRED**
- PNF | CRUISE CHECKLIST..... **COMPLETED**

DESCENT

- PNF | RADAR. **AS REQUIRED**
- PNF | OBIGGS. **OFF**
- PNF | ENGINE IGNITION SELECTOR SWITCH. **A OR B OR A&B**
- PNF | ANTI-ICE. **AS REQUIRED**
- PNF | DEFENSIVE SYSTEM. **AS REQUIRED**
- PNF | PERS WARN SIGNS. **ON**
- PNF | DESCENT CHECKLIST. **COMPLETED**

APPROACH

- PF | APPROACH MODE. **ENGAGE**
- PNF | EXTERIOR LIGHTS. **ON**
- PNF | ALTIMETERS. **SET**
- PNF | CABIN PRESSURIZATION. **VERIFY**
- PF | TOLD. **VERIFY**
- PNF | FLAP INDEX. **SET ____**
- PNF | THRUST RATING. **AS REQUIRED**
- PF | CREW BRIEFING. **COMPLETED**
- PNF | WAP. **VERIFY**
- PNF | DEFENSIVE SYSTEM. **AS REQUIRED**
- PNF | APPROACH CHECKLIST. **COMPLETED**

BEFORE LANDING

PF | SLATS/FLAPS..... **SLATS EXTENDED, FLAPS ____**
PNF | LANDING GEAR..... **DOWN**
PNF | SPOILER SWITCH..... **ARM**
PNF | DEFENSIVE SYSTEM..... **AS REQUIRED**
PNF | BEFORE LANDING CHECKLIST..... **COMPLETED**

LANDING

PNF | FLAPS..... **SELECT ¾ OR FULL**

PF | FPV..... **BETWEEN -1.0 AND 1.5 DEGREES**

PNF | 300 FEET..... **ANNOUNCE**

PNF | 50 FEET..... **ANNOUNCE**

- **AT TOUCHDOWN**

PF | THROTTLE..... **REV IDLE**

PNF | ENGINE PARAMETERS..... **CONFIRM**

PF | BRAKES..... **APPLY**

- **AT 70 KNOTS**

PF | THROTTLE..... **NORMAL IDLE**

GO AROUND

PF | THROTTLES..... **MAX/TOGA**
PNF | FLAPS..... **1/2**
PF | PITCH..... **ROTATE**
PF | SPEED..... **ACCELERATE**
PF | FD..... **FOLLOW**
PF | GEAR UP..... **ORDER**
PNF | LANDING GEAR..... **SELECT UP**

C-17 GLOBEMASTER III

AFTER LANDING

PNF FLAPS/SLATS.	UP/RET
PNF SPOILER SWITCH.	DISARM
PNF IFF.	STBY
PNF RADAR.	OFF
PNF PRESSURIZATION.	DEPRESSURISED
PNF IRCM MODE.	STBY
PNF EXTERIOR LIGHTS.	AS REQUIRED
PNF ADITS DOWNLOAD.	AS REQUIRED
PF CARGO DOOR AND RAMP.	AS REQUIRED
PF OUTBOARD ENGINES.	AS REQUIRED
PF OUTBOARD ENGINES EPR.	1.5
PF DC X TIE.	TIE
PF OUTBOARD ENGINES FUEL BOOST PUMP.	OFF
PF PROBE HEAT SWITCHLIGHTS.	OFF
PF ENGINE #1 AND #4 ENG SHUT OFF SWITCH.	OFF
PNF AFTER LANDING CHECKLIST.	COMPLETED

C-17 GLOBEMASTER III

ENGINE SHUTDOWN

P | PARKING BRAKES. ON
P | CREW ENTRY DOOR. CLEARED TO OPEN
P | TRIM. SET 0
CP | SKE AND RDR BCN. OFF
P | DC X TIE SWITCH. TIE
P | APU/EXT PWR. AS REQUIRED
 P | APU. START
 P | APU/EXT PWR SWITCHES. AS REQUIRED
P | ENVIR PANEL. SET
 P | APU BLEED AIR VALVE. AS REQUIRED
 P | BLEED AIR ISOL VALVE. AS REQUIRED
 P | ENGINE PNEUMATIC SOV SWITCHLIGHT. AS REQUIRED
P | FUEL PANEL. SET
 P | FUEL FWD/AFT BOOST PUMP SWITCHLIGHTS. OFF
P | ENGINE IGNITION SELECTOR SWITCH. OFF
P | ENGINE IGNITION NORM/ORIDE SWITCH. NORM
CP | PROBE HEAT SWITCHLIGHTS. OFF
CP | ANTI ICE PANEL. OFF
P | FLAPS/SLATS. AS REQUIRED
P | FCS ACTR PANEL SWITCHES. FULL MECH/MECH/OFF
P | THROTTLES. IDLE
CP | HYD PUMPS. OFF
P | ENG SHUT OFF SWITCHES. OFF
CP | ENGINE SHUTDOWN CHECKLIST. COMPLETED

SECURING THE AIRCRAFT

CP INTERIOR AND EXTERIOR LIGHTS.....	AS REQUIRED
CP PERS WARN SIGNS.....	OFF
CP IRU SWITCHES.....	OFF
CP OBIGGS LEFT AND RIGHT SWITCHLIGHTS.....	OFF
CP HUD.....	OFF
P HUD.....	OFF
CP MFD.....	OFF
CP STBY ATTITUDE INDICATORS.....	CAGED
CP STBY ENG SEL.....	OFF
CP OXYGEN.....	100% / OFF
CP SC ZERO.....	AS REQUIRED
CP IRCM/UDM CARD.....	OFF
CP MCD.....	OFF
LM CHOCKS.....	INSTALLED
CP PARKING BRAKES.....	OFF
P SAFETY SWITCH PINS.....	AS REQUIRED
CP DEFENSIVE SYSTEM WOW MAINT ORIDE SWITCH.....	NORMAL
CP CMDS SYS ARMED SWITCHLIGHT.....	EXTINGUISHED
CP CMDS JETT SWITCH.....	OFF
CP COCKPIT PRINTER.....	OFF
CP L/R PACKS.....	OFF
CP APU/EXT PWR.....	AS REQUIRED
CP GND OPS PWR.....	AS REQUIRED
CP EMERG LT SWITCH.....	OFF
CP DC X TIE SWITCH.....	AUTO
CP EMERG PWR SWITCH.....	ON
CP APU PWR.....	OFF
CP EXT PWR SWITCH.....	OFF
CP XFER BUSES.....	OFF
CP EMERG PWR SWITCH.....	OFF
CP BATT SWITCH.....	OFF

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CHAPTER 5 SUPPLEMENTAL OPERATING PROCEDURES

REVERSE THRUST BACKING

Caution

The aircraft is able to back up at full ramp weight (586 000 lbs) up to a 2% slope.

CM | BRIEFING. **COMPLETED**
 LM | LOADMASTER. **IN POSITION**
 LM | LOADMASTER. **IN CONTACT**
 P | THRUST LEVERS. **REVERSE IDLE**

- **If all four engines extend over the same ground surfaces:**
 P | OUTBOARD ENGINES. **SET ¾ REVERSE THRUST**
 P | INBOARD ENGINES. **SET REVERSE IDLE**
- **If an outboard engine extends over unprepared or debris covered surfaces:**
 P | OUTBOARD ENGINES. **SET REVERSE IDLE**
 P | INBOARD ENGINES. **SET REVERSE THRUST AS REQUIRED**
- **When backing is completed:**
 P | THRUST LEVERS. **FORWARD**
 P | BRAKES. **AS REQUIRED**

STAR TURN

CM | BRIEFING. **COMPLETED**

- **When the outboard main gear tires are at the edge of the runway:**

P | THRUST LEVERS. **FWD IDLE**

P | STEERING. **FULL TOWARD RWY CENTER**

P | ENGINES OUTSIDE THE TURN. **SET POWER SLOWLY**

- **When the nose gear reaches the opposite edge of the runway:**

P | NOSE WHEEL. **CENTER**

CM | REVERSE THRUST BACKING PROCEDURES. **APPLY**

REVERSE THRUST BACKING

Caution
The aircraft is able to back up at full ramp weight (586 000 lbs) up to a 2% slope.

CM | BRIEFING. **COMPLETED**

LM | LOADMASTER. **IN POSITION**

LM | LOADMASTER. **IN CONTACT**

P | THRUST LEVERS. **REVERSE IDLE**

- **If all four engines extend over the same ground surfaces:**

P | OUTBOARD ENGINES. **SET ¾ REVERSE THRUST**

P | INBOARD ENGINES. **SET REVERSE IDLE**

- **If an outboard engine extends over unprepared or debris covered surfaces:**

P | OUTBOARD ENGINES. **SET REVERSE IDLE**

P | INBOARD ENGINES. **SET REVERSE THRUST AS REQUIRED**

- **When backing is completed:**

P | THRUST LEVERS. **FORWARD**

P | BRAKES. **AS REQUIRED**

P | BRAKES. **RELEASE**

P | NOSE STEERING. **OPPOSITE DIRECTION FROM TURN**

- **When main gear reaches the edge of the runway:**

P | THRUST LEVERS. **FORWARD**

P | BRAKES. **AS REQUIRED**

Restart the procedures until the aircraft is at the correct position.

PENETRATION DESCENT

CM | DESCENT PROCEDURES. **APPLY**

DESCENT	
PNF RADAR.	AS REQUIRED
PNF OBIGGS.	OFF
PNF ENGINE IGNITION SELECTOR SWITCH.	A OR B OR A&B
PNF ANTI-ICE.	AS REQUIRED
PNF DEFENSIVE SYSTEM.	AS REQUIRED
PNF PERS WARN SIGNS.	ON
PNF DESCENT CHECKLIST.	COMPLETED

CM | APPROACH CHECKLIST. **APPLY**

APPROACH	
PF APPROACH MODE.	ENGAGE
PNF EXTERIOR LIGHTS.	ON
PNF ALTIMETERS.	SET
PNF CABIN PRESSURIZATION.	VERIFY
PF TOLD.	VERIFY
PNF FLAP INDEX.	SET ____
PNF THRUST RATING.	AS REQUIRED
PF CREW BRIEFING.	COMPLETED
PNF WAP.	VERIFY
PNF DEFENSIVE SYSTEM.	AS REQUIRED
PNF APPROACH CHECKLIST.	COMPLETED

P | FLAPS/SLATS. **SET RETRACTED**

P | THRUST LEVERS. **FWD IDLE**

P | AIR SPEED. **MAINTAIN 230-250 KCAS**

P | SPEED BRAKES. **AS REQUIRED**

P | SLATS. **AS REQUIRED**

• **When reaching 1000 feet above penetration altitude:**

P | VERTICAL SPEED. **REDUCE BY HALF**

P | SPEED BRAKES. **RETRACT**

P | AIR SPEED. **REDUCE TO V_{MMA}**

TACTICAL DESCENT

CM | DESCENT PROCEDURES. **APPLY**

DESCENT	
PNF RADAR.	AS REQUIRED
PNF OBIGGS.	OFF
PNF ENGINE IGNITION SELECTOR SWITCH.	A OR B OR A&B
PNF ANTI-ICE.	AS REQUIRED
PNF DEFENSIVE SYSTEM.	AS REQUIRED
PNF PERS WARN SIGNS.	ON
PNF DESCENT CHECKLIST.	COMPLETED

CM | APPROACH CHECKLIST. **APPLY**

APPROACH	
PF APPROACH MODE.	ENGAGE
PNF EXTERIOR LIGHTS.	ON
PNF ALTIMETERS.	SET
PNF CABIN PRESSURIZATION.	VERIFY
PF TOLD.	VERIFY
PNF FLAP INDEX.	SET _____
PNF THRUST RATING.	AS REQUIRED
PF CREW BRIEFING.	COMPLETED
PNF WAP.	VERIFY
PNF DEFENSIVE SYSTEM.	AS REQUIRED
PNF APPROACH CHECKLIST.	COMPLETED

P | LANDING GEARS. **UP**

P | FLAPS/SLATS. **SET RETRACTED**

P | SPEEDBRAKE. **DEPLOYED**

P | THRUST LEVERS. **REVERSE THRUST IDLE**

P | DESCENT AIR SPEED. **320 KCAS**

- **When reaching 2 000 feet above desired altitude:**

P | THRUST LEVERS. **FWD IDLE**

ASSAULT LANDINGS

CM | APPROACH CHECKLIST..... **APPLY**

APPROACH	
PF APPROACH MODE.....	ENGAGE
PNF EXTERIOR LIGHTS.....	ON
PNF ALTIMETERS.....	SET
PNF CABIN PRESSURIZATION.....	VERIFY
PF TOLD.....	VERIFY
PNF FLAP INDEX.....	SET _____
PNF THRUST RATING.....	AS REQUIRED
PF CREW BRIEFING.....	COMPLETED
PNF WAP.....	VERIFY
PNF DEFENSIVE SYSTEM.....	AS REQUIRED
PNF APPROACH CHECKLIST.....	COMPLETED

• **When approach is stabilized:**

P PACAH.....	ENGAGE
P THRUST LEVERS.....	SET FPV
PNF 300 FEET AGL.....	ADVISE
PNF 50 FEET AGL.....	ADVISE
P TOUCHDOWN RATE.....	360 FPM

TOUCH AND GO LANDINGS

- **After the main gear touchdown:**

P | THRUST LEVERS. **SET IDLE**

- **After the nose wheel touchdown:**

PF | FLAPS. **ANNOUNCE “FLAPS ½”**

PF | THRUST LEVERS. **ADVANCE 1 INCH**

PNF | FLAPS. **SET ½**

PNF | FLAPS. **CONFIRM SET ½**

PNF | ENGINES. **CONFIRM ACCELERATING**

PNF | TRIM. **RESET AS REQUIRED**

PF | THROTTLES. **AS REQUIRED**

PF | TOGA SWITCH. **PRESS**

ENROUTE STOP CHECKLIST

ARRIVAL:

- CP | INTERIOR LIGHTS. **AS REQUIRED**
- CP | EXTERIOR LIGHTS. **AS REQUIRED**
- P | IRU SWITCHES 1, 2, 3, 4. **AS REQUIRED**
- P | SKE. **AS REQUIRED**
- P | RDR BCN. **AS REQUIRED**
- CP | MISSION PLAN DOWNLOAD. **AS REQUIRED**
- LM | CHOCKS. **SET**
- LM | GROUND WIRES. **AS REQUIRED**
- P | PARKING BRAKES. **SET**
- P | SAFETY SWITCH PINS/IRCM. **AS REQUIRED**
- CP | WOW MAINT ORIDE SWITCHES. **NORMAL**
- CP | CMDS SYS ARMED. **EXTINGUISHED**
- P | CMDS JETT. **OFF**
- P | L/R PACK. **AS REQUIRED**
- CP | OBIGGS. **AS REQUIRED**
- P | APU/EXT PWR. **AS REQUIRED**
- LM | EXT PWR. **AS REQUIRED**
- LM | PAPERWORK. **OBTAINED**
- LM | PERSONNEL. **DISEMBARKED**
- LM | INRL HORN INHIBIT. **OFF**
- LM | STABILIZER STRUTS. **AS REQUIRED**
- LM | CARGO DOOR/RAMP. **AS REQUIRED**

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DEPARTURE:

CP | FLIGHT DECK EQUIPMENT. **SECURED**
CP | CIRCUIT BREAKERS. **VERIFY**
CP | MAINTENANCE INTERFACE PANEL. **CLOSED**
P | PARKING BRAKE. **ON**
P | WAP. **VERIFY**
P | HYD PUMPS. **OFF**
P | HYD SYS FLUID QTY. **VERIFY**
CP | APU/ENG FIRE DETECTION SYS. **TEST**
P | STBY ENG SEL. **N2**
CP | W/S DEFOG. **ON**
CP | L & R W/S ANTI-ICE. **OFF**
CP | WING ANTI-ICE. **OFF**
CP | ENG ANTI-ICE. **OFF**
P | OXYGEN QUANTITY. **VERIFY**
CP | MISSION COMPUTER. **INITIALIZE**
P | RADAR. **STBY**
P | IRU 1, 2, 3, 4. **INITIALIZE**
P | EFCS RESET. **PRESS**

OPERATIONAL STOP

ALERT COCKPIT PROCEDURE

ALERT START PROCEDURES

SEMI PREPARED AIRFIELD OPERATIONS

CHAPTER 6 SIMULATOR TROUBLESHOOTING

CHAPTER 7 OTHER INFORMATION

C-17 GLOBEMASTER III