

DOUGLAS DC-3

MEMORY ITEMS / QUICK REFERENCE PROCEDURES

ENGINE FIRE DURING START

F STARTER CONTINUE START
 C PRIMER RELEASE
 C MIXTURE CONTROL (AFF. ENG) ICO
 F FUEL BOOST PUMP OFF
 C&F INSTRUMENTS (AFF. ENG) MONITOR

IF FIRE CONTINUES:

C THROTTLE CLOSED
 C STARTER RELEASE
 C COWL FLAPS CLOSED
 F ENG FIRE BOTTLE SELECT AFF. ENG
 F FIRE BOTTLE T HANDLE PULL

IF FIRE CONTINUES:

C AIRCRAFT EVACUATE

EVACUATION

F THROTTLES CLOSED
 F MIXTURE CONTROLS ICO
 F IGNITION SWITCHES OFF
 F IGNITION MASTER OFF
 F FUEL BOOST PUMPS OFF
 F FUEL TANK SELECTORS OFF
 F FIREWALL SHUTOFFS OFF
 F BATTERY SWITCH OFF
 C&F AIRCRAFT EVACUATE

LANDING GEAR FIRE

1. TURN AIRCRAFT INTO WIND.
2. CALL TOWER FOR ASSISTANCE.
3. SHUTDOWN ENGINE ON SIDE OF AIRCRAFT NOT AFFECTED BY FIRE.
4. INCREASE POWER (MIN 2000 RPM) ON REMAINING ENGINE.
5. SHUT DOWN REMAINING ENGINE WHEN EQUIP. IS IN POSITION TO FIGHT FIRE.

ABORTED TAKEOFF

PF THROTTLES CLOSED
 PF DIRECTIONAL CONTROL MAINTAIN
 PF BRAKES APPLY

F ATC ADVISE
 F PASSENGERS ADVISE STATUS

ENGINE FIRE OR FAILURE DURING TAKEOFF/ INITIAL CLIMB

PF MIXTURE CONTROLS AUTO RICH
 PF PROP CONTROLS FULL FORWARD
 PF THROTTLES 48 IMP
 PF **CALL** GEAR UP
 PF **CALL** FLAPS UP
 PF AFFECTED ENGINE IDENTIFY
 PF AFFECTED ENGINE VERIFY
 PF AFFECTED ENGINE FEATHER
 PF **CALL** CHECK FOR FIRE

IF FIRE EXISTS:

PNF MIXTURE CONTROL (AFF. ENG) ICO
 F COWL FLAPS CLOSED
 PNF FIREWALL SHUTOFF (AFF. ENG) OFF
 PNF AFFECTED ENG FIRE BOTTLE SELECT
 PNF FIRE BOTTLE T HANDLE PULL

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

PROPELLER OVERSPEED DURING TAKEOFF

PNF THROTTLE (AFF. ENG) REDUCE
 PNF PROP CONTROL (AFF. ENG) REDUCE
 PF AIRSPEED V2
 PNF FLAPS UP
 PNF LANDING GEAR UP
 PNF RPM CONTROL WITH FEATHER BUTTON

IF PROP UNCONTROLLABLE:

PNF AFFECTED ENGINE FEATHER
 PNF MIXTURE CONTROL (AFF. ENG) ICO

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 PNF PROP CONTROL (AFF. ENG) FULL AFT
 PNF THROTTLE (AFF. ENG) CLOSED
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

CONSULT THE PILOT'S HANDBOOK – CHAPTER 1 FOR THE FOLLOWING PROCEDURES:

LANDING GEAR MALFUNCTIONS
 HYDRAULIC SYSTEM FAILURE
 ENGINE DRIVEN FUEL PUMP FAILURE
 BROKEN FUEL LINE
 FIRE CONTROL
 ANTI-ICING
 OPERATING IN SEVERE ICING CONDITIONS

ENGINE FIRE/ FAILURE/ SHUTDOWN - ENROUTE -

PF MIXTURE CONTROLS AUTO RICH
 PF PROP CONTROLS FULL FORWARD
 PF THROTTLES AS REQD
 PF FLAPS UP
 PF LANDING GEAR UP
 PF AFFECTED ENGINE IDENTIFY
 PF AFFECTED ENGINE VERIFY
 PF AFFECTED ENGINE FEATHER
 PF MIXTURE CONTROL (AFF. ENG) ICO

IF FIRE EXISTS:

F COWL FLAPS CLOSED
 PNF FIREWALL SHUTOFF (AFF. ENG) OFF
 PNF ENG FIRE BOTTLE SELECT AFF. ENGINE
 PNF FIRE BOTTLE T HANDLE PULL

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

ELECTRICAL SMOKE OR FIRE

PF LAND AS SOON AS POSSIBLE
 PNF GENERATOR SWITCHES OFF
 PNF BATTERY SWITCH OFF

AFTER FIRE IS OUT

PNF ELECTRICAL SWITCHES OFF
 PNF AVIONICS MASTER SWITCH OFF
 PNF BATTERY SWITCH BATTERY
 PNF L GENERATOR SWITCH ON
 PNF R GENERATOR SWITCH ON
 PNF ELEC. SWITCHES (ONE AT A TIME) ON
 PNF AVIONICS MASTER SWITCH ON

CABIN SMOKE OR FIRE

PF LAND AS SOON AS POSSIBLE
 PNF COCKPIT/CABIN DOOR CLOSED
 PNF RAM AIR VALVE AS REQD
 F COCKPIT HEAT VALVE COLD
 F CABIN AIR TEMP CONTROL COLD
 PNF ATTEMPT TO EXTINGUISH FIRE

PROPELLER OVERSPEED - ENROUTE -

PF AIRSPEED REDUCE
 PF THROTTLE (AFF. ENG) REDUCE
 PF PROP CONTROL (AFF. ENG) REDUCE
 C&F AFFECTED ENGINE MONITOR

IF OVERSPEED CONTINUES:

PNF AFFECTED ENGINE FEATHER
 PNF MIXTURE CONTROL (AFF. ENG) ICO

CLEANUP ITEMS:

PNF IGNITION SWITCH (AFF. ENG) OFF
 PNF GENERATOR (AFF. ENG) OFF
 PNF FUEL BOOST PUMP (AFF. ENG) OFF
 PNF COWL FLAPS (AFF. ENG) CLOSED / OFF
 PNF COWL FLAPS (OPERATIVE ENG) AS REQD
 PNF FUEL TANK SELECTOR (AFF. ENG) OFF
 PNF FIREWALL SHUTOFF (AFF. ENG) CKD/OFF
 PNF PROP CONTROL (AFF. ENG) FULL AFT
 PNF THROTTLE (AFF. ENG) CLOSED
 C&F FUEL BALANCE MAINTAIN
 C&F CHT (OPERATIVE ENG) MONITOR
 C&F OIL TEMP (OPERATIVE ENG) MONITOR

ENGINE RE-START/ UNFEATHERING - IN FLIGHT -

PF AIRSPEED MAX 130 KIAS
 PNF FUEL TANK SELECTOR MAIN TANK
 PNF FIREWALL SHUTOFF LOCKED / ON
 PNF PROP CONTROL FULL AFT
 PNF THROTTLE AS REQD
 PNF STARTER ENGAGE (11 BLADES)
 PNF STARTER RELEASE
 PNF IGNITION SWITCH (AFF. ENG) BOTH
 PNF PROP FX BUTTON OPERATE TO 800 RPM
 PNF MIXTURE AUTO RICH
 C&F OIL PRESSURE MONITOR
 C&F THROTTLE 18 IMP

**CAUTION: UNLESS A GREATER EMERGENCY
EXISTS, ATTEMPT TO OBTAIN NORMAL OPERATING
TEMPERATURES AND PRESSURES BEFORE
RESTORING CRUISE POWER.**

C&F CHT MONITOR
 C&F COWL FLAPS AS REQD
 C&F OIL TEMP MONITOR
 F GENERATOR ON

HEATER FIRE

F MAIN HEATER SWITCH OFF
 PNF RAM AIR VALVE CLOSE
 PNF CO2 DISCHARGE

EMERGENCY DESCENT

PF THROTTLES CLOSED
 PF AIRSPEED AS REQD
 PNF ATC NOTIFY
 PNF TRANSPONDER 7700
 PF LANDING GEAR AS REQD
 PF FLAPS AS REQD

SMOKE EVACUATION

F RAM AIR VALVE CLOSED
 F COCKPIT HEAT VALVE COLD
 F CABIN AIR TEMP CONTROL COLD
 F AFT EMERGENCY EXIT WINDOW AS REQD
 F CABIN TO COCKPIT DOOR AS REQD
 F F/O SLIDING WINDOW OPEN

SINGLE ENGINE GO-AROUND

PNF PROP FULL FORWARD
 PF THROTTLE 48 IMP
 PF AIRSPEED V2
 PNF FLAPS UP
 PNF LANDING GEAR UP

HYDRAULIC PRESSURE/ FLUID LOSS

PNF GEAR/FLAP HANDLES NEUTRAL
 F COWL FLAPS OFF
CONTINUED IN POM

EMERGENCY BRAKING

(HYDRAULIC PRESSURE LESS THAN 675 psi)

F LANDING GEAR HANDLE NEUTRAL
 F FLAP HANDLE NEUTRAL
 C BRAKE PEDALS DEPRESS
 F HAND PUMP ACTUATE

DC-3 NORMAL CHECKLIST

BEFORE START

C	EXT/ INT PREFLIGHT	COMPLETE
C	LOGBOOKS CHECKLISTS	CHECKED
C	LANDING GEAR PINS	ON BOARD
C	CONTROL LOCKS	REMOVED & STOWED
C	CIRCUIT BREAKERS	CHECKED
C	HYDRAULIC QUANTITY	CHECKED
C	HYDRAULIC PRESSURE	CHECKED (500-1000 PSI)
C	ESCAPE HATCH	CHECKED
C	BATTERY SWITCH	OFF
C	AVIONICS MASTER	OFF
C	CABIN LIGHTS	OFF
C	PROPELLER ANTI-ICE	OFF
C	WINDSHIELD ANTI-ICE	OFF
C	EXTERIOR LIGHTS (7)	OFF
C	NO SMOKE & SEAT BELT SIGNS	ON
C	LANDING LIGHTS	OFF
C	ANTI-COLLISION LIGHT	ON
C	IGNITION MASTER	OFF
C	MAGNETOS	OFF
C	STARTER	OFF
C	PRIMER	OFF
C	FUEL BOOST PUMPS	CHECKED/ OFF
C	GENERATOR SWITCHES	ON
C	PITOT HEAT	OFF
C	INSTRUMENT SWITCH	ON
C	CARGO FIRE WARNING	CHECKED
C	HEATER CONTROLS (3)	OFF
C	PROPELLERS	FORWARD
C	THROTTLES	CHECKED/ IDLE
C	MIXTURES	IDLE CUTOFF
C	THROTTLE FRICTION	SET
C	RADIOS & TRANSPONDER	SET
C	NAV SYSTEM	SET

C	ALTIMETERS	SET
C	FLIGHT INSTRUMENTS	SET/ CROSSCHECKED
C	ENGINE INSTRUMENTS	CHECKED
C&F	FUEL REQ'D/ON BOARD	REQ'D/ ON BOARD
C	FIRE WARNING	CHECKED
C	FIREWALL SHUTOFFS	OPEN
C	CARBURETOR HEAT	COLD
C	WARNING LIGHTS	CHECKED
C	STATIC SOURCE SELECTORS	NORMAL
C	FUEL SELECTORS	MAIN TANKS
C	TRIMS	3 CHECKED/ 0
C	COWL FLAPS	OPEN & OFF
C	FLAP HANDLE	NEUTRAL
C	LANDING GEAR HANDLE	NEUTRAL
C	LANDING GEAR LATCH	LATCHED
C	STAR VALVE	CLOSED
C	AFT BALLAST	SECURE
C	AFT CARGO DOORS	LOCKED
C	PASSENGER BRIEFING	COMPLETE
C	FLIGHT ATTENDANT BRIEFING	COMPLETE
PF	DEPARTURE BRIEFING	COMPLETE

AFTER PAPERWORK COMPLETE

C&F	TAKEOFF WEIGHT	LBS
C&F	% MAC	%
C&F	ELEVATOR TRIM	UNITS
C&F	AMBIENT MP READING	INCHES

RIGHT ENGINE START

F	FIRE GUARD	POSTED
F	RIGHT ENGINE	CLEAR

C	BATTERY MASTER	ON
C	RIGHT BOOST PUMP	ON
C	RIGHT STARTER	ENGAGED
C	RIGHT PROPELLER	9 -to- 12 BLADES
C	RIGHT ENGINE MIXTURE	AUTO RICH
C	RIGHT ENGINE MAGNETOS	BOTH
C	RIGHT THROTTLE	ADVANCE SLIGHTLY
C	RIGHT ENGINE PRIMER	AS REQUIRED
C	RIGHT ENGINE STARTER	OFF

AFTER START

C&F	RIGHT ENGINE OIL PRESSURE	CHECKED
F	RIGHT BOOST PUMP	OFF
F	RIGHT PRIMER	OFF
F	RIGHT ENGINE FUEL PRESSURE	CHECKED
F	RIGHT ENGINE IDLE RPM	500 – 800 RPM
F	RIGHT ENGINE OIL TEMP	70° – 90° C
F	RIGHT ENGINE RPM	950 – 1050 RPM
F	BATTERY SWITCH	OFF
F	MAIN BUS VOLTAGE	25 VOLTS (+1/ -0)
F	BATTERY SWITCH	ON
F	HYDRAULIC QUANTITY	CHECKED
F	HYDRAULIC SYSTEM PRESSURE	CHECKED
F	RIGHT HYDRAULIC PUMP	CHECKED
F	RIGHT VACUUM	CHECKED
F	RIGHT COWL FLAP	OPEN & OFF

LEFT ENGINE START

C	FIRE GUARD	POSTED
C	LEFT ENGINE	CLEAR

C	LEFT STARTER	ENGAGED
C	LEFT PROPELLER	9 -to-12 BLADES
C	LEFT ENGINE MIXTURE	AUTO RICH
C	LEFT ENGINE MAGNETOS	BOTH
C	LEFT ENGINE THROTTLE	ADVANCE SLIGHTLY
C	LEFT ENGINE PRIMER	AS REQUIRED
C	LEFT ENGINE STARTER	OFF

AFTER START

C&F	LEFT ENG OIL PRESSURE	CHECKED
F	LEFT BOOST PUMP	OFF
F	LEFT PRIMER	OFF
F	LEFT ENGINE FUEL PRESSURE	CHECK
F	LEFT ENGINE IDLE RPM	500 – 800 RPM
F	LEFT ENGINE OIL TEMP	70° – 90° C
F	LEFT ENGINE RPM	950 – 1050 RPM
F	BATTERY SWITCH	OFF
F	RIGHT ENGINE GENERATOR SWITCH	OFF
F	MAIN BUS VOLTAGE	25 VOLTS (+1/ -0)
F	BATTERY SWITCH	ON
F	RIGHT ENGINE GENERATOR SWITCH	ON
F	INVERTERS	ON
F	HYDRAULIC QUANTITY	CHECK
F	HYDRAULIC SYSTEM PRESSURE	CHECK
F	LEFT HYDRAULIC PUMP	CHECK
F	LEFT VACUUM	CHECK
F	LEFT COWL FLAP	OPEN & OFF
F	AVIONICS MASTER	ON

TAXI

C	BRAKES	.....	CHECKED
F	FLAP HANDLE	.....	UP
F	FLAP INDICATOR	.....	0
F	FLAP HANDLE	.....	NEUTRAL

C&F	ALTIMETERS	.....	& CROSSCHECKED
C&F	FLT & NAV INSTR	.....	SET & CROSSCHECKED
C&F	FLT CONTROLS	.....	TOPS/BOTTOMS

ENGINE RUN UP

C	LEFT & RIGHT ENGINE	.....	1700 RPM
C	PROPELLERS	.....	EXERCISE TWICE
C	LEFT ENGINE FEATHER	.....	CHECK
C	RIGHT ENGINE FEATHER	.....	CHECK
C	PROPELLERS	.....	EXERCISE
C	THROTTLES	.....	1000 RPM

C	RIGHT THROTTLE	.....	INC TO AMBIENT IMP
C	RIGHT ENGINE	.....	MAG CHECK
C	RIGHT ENGINE	.....	POWER CHECK (2300 RPM)
C	RIGHT ENGINE	.....	IDLE

C	LEFT THROTTLE	.....	INC TO AMBIENT IMP
C	LEFT ENGINE	.....	MAG CHECK
C	LEFT ENGINE	.....	POWER CHECK (2300 RPM)
C	LEFT ENGINE	.....	IDLE

C	ENGINE INSTRUMENTS	CHECKED
---	--------------------	-------	---------

C	LEFT ENGINE	.....	CHECKED
F	RIGHT ENGINE	.....	CHECKED

BEFORE TAKEOFF

F	SEAT BELT SIGN	.....	ON
F	PROPELLERS	.....	FORWARD
F	MIXTURES	.....	AUTO RICH
F	PITOT HEAT	.....	ON
F	ANN PANEL/WARNING LIGHTS	.....	CHECKED

C&F	FLAPS	.....	0
C&F	TRIM	.....	0, 0, 0

PF	DEPARTURE BRIEFING	.....	COMPLETE
F	FLT ATTENDANT	.....	NOTIFIED/ ACK
F	COCKPIT DOOR & WINDOWS	.....	AS REQUIRED

FINAL ITEMS

F	EXTERIOR LIGHTS	.....	SET
F	FUEL BOOST PUMPS	.....	ON
F	TRANSPONDER	.....	SET
F	COWL FLAPS	.....	TRAIL
F	TAIL WHEEL	.....	LOCKED

AFTER TAKEOFF

PNF	LANDING GEAR	.....	UP,
		.....	HANDLE NEUTRAL,
		.....	PRESSURE 0

PNF	FLAPS	.....	UP,
		.....	HANDLE NEUTRAL

PNF	FUEL BOOST PUMPS	OFF
-----	------------------	-------	-----

PNF	CLIMB POWER	SET
-----	-------------	-------	-----

PNF	CYLINDER HEAD TEMPERATURES	CHECKED
-----	----------------------------	-------	---------

PNF	COWL FLAPS	TRAIL
-----	------------	-------	-------

C&F	ENGINE NACELLES	CHECKED
-----	-----------------	-------	----------------

CRUISE

PNF	EXTERIOR LIGHTS	SET
-----	-----------------	-------	-----

PNF	CRUISE POWER	SET
-----	--------------	-------	-----

PNF	FUEL TANK SELECTORS	AS REQUIRED
-----	---------------------	-------	-------------

PNF	CYLINDER HEAD TEMPERATURES	CHECKED
-----	----------------------------	-------	---------

PNF	COWL FLAPS	CLOSED & OFF
-----	------------	-------	--------------

PNF	MIXTURES	AUTO LEAN
-----	----------	-------	-----------

PNF	SEAT BELT SIGN	OFF
-----	----------------	-------	-----

DESCENT

PNF	EXTERIOR LIGHTS	SET
-----	-----------------	-------	-----

PNF	SHOULDER HARNESSSES	ON
-----	---------------------	-------	----

PNF	DIRECTIONAL GYROS	SET
-----	-------------------	-------	-----

PNF	TAIL WHEEL	LOCKED
-----	------------	-------	--------

C&F	ALTIMETERS	SET/ CROSSCHECKED
-----	------------	-------	--------------------------

C&F	AIRSPED BUGS	SET
-----	--------------	-------	------------

APPROACH

PNF	MIXTURE	AUTO RICH
-----	---------	-------	-----------

PNF	HYDRAULIC QUANTITY	CHECKED
-----	--------------------	-------	---------

PNF	HYDRAULIC PRESSURE	CHECKED
-----	--------------------	-------	---------

PNF	HEATER CONTROL SWITCH	OFF
-----	-----------------------	-------	-----

PNF	FUEL SELECTORS	MAIN TANKS
-----	----------------	-------	------------

PNF	SET BELT SIGN	ON
-----	---------------	-------	----

PNF	APPROACH BRIEFING	COMPLETE
-----	-------------------	-------	----------

C&F	FLT/ NAV INSTRUMENTS	SET/ XCHECKED
-----	----------------------	-------	----------------------

C&F	DIRECTIONAL GYROS	SET/ XCHECKED
-----	-------------------	-------	----------------------

BEFORE LANDING

C&F	LANDING GEAR	.....	DOWN & LATCHED,
		.....	HANDLE NEUTRAL,
		.....	PRESSURE UP,
		.....	GREEN LIGHT

FINAL ITEMS

PNF	EXTERIOR LIGHTS	SET
-----	-----------------	-------	-----

PNF	FUEL BOOST PUMPS	ON
-----	------------------	-------	----

PNF	FLAPS	SET
-----	-------	-------	-----

PNF	PROPELLERS	FWD
-----	------------	-------	-----

AFTER LANDING/ TOUCH & GO

F ELEVATOR TRIM0
F FLAP HANDLE..... UP
F TAIL WHEEL..... AS REQUIRED

AFTER CLEARING

F FUEL BOOST PUMPS OFF
F EXTERIOR LIGHTS..... AS REQUIRED
F PITOT HEAT OFF
F INVERTERS..... OFF
F COWL FLAPS OPEN & OFF
F TRANSPONDER..... STBY
F FLAP HANDLE..... NEUTRAL
F CARBURETOR HEAT COLD

C&F ENGINE NACELLES **CHECKED**

SHUTDOWN

F BRAKES..... AS REQUIRED
F AVIONICS MASTER..... OFF
F EXTERIOR LIGHTS..... OFF
F TAIL WHEEL..... AS REQUIRED
F MIXTURES..... IDLE CUT OFF
F ALL ENGINE ROTATION STOPPED
F IGNITION OFF
F IGNITION MASTER OFF
F ANTI-COLLISION LIGHT OFF
F BATTERY SWITCH OFF
F COWL FLAPS OPEN/ OFF
F LANDING GEAR HANDLE DOWN
F FLAP HANDLE..... UP

TERMINATION

F FUEL SELECTORS.....OFF
F COCKPIT WINDOWS LOCKED
F ESCAPE HATCH..... LOCKED
F LOGBOOK COMPLETE
F CHOCKS..... INSTALLED
F LANDING GEAR PINS INSTALLED
F CONTROL LOCKS INSTALLED
F CARBURETOR HEAT HOT
F CARBURETOR HEAT LOCK..... LOCKED
F GENERATOR SWITCHES..... OFF
F INSTRUMENT SWITCHES..... OFF
F TAIL WHEEL..... LOCKED

Douglas DC-3 - PREFLIGHT CHECKLIST

INTERIOR PRE-FLIGHT

ESCAPE HATCH..... SECURE
 TAIL WHEEL..... UNLOCKED
 LANDING GEAR LATCH..... LATCHED
 BATTERY MASTER..... OFF/ EXT
 AVIONICS MASTER..... OFF
 CABIN LIGHTS..... OFF
 PROPELLER ANTI-ICE..... OFF
 WINDSHIELD ANTI-ICE..... OFF
 EXTERIOR LIGHTS (7)..... OFF
 NO SMOKE/ SEATBELT SIGN..... OFF
 LANDING LIGHTS..... OFF
 ANTI-COLLISION LIGHT..... OFF
 IGNITION MASTER..... OFF
 MAGNETOS..... OFF
 STARTER..... OFF
 PRIMER..... OFF
 FUEL BOOST PUMPS..... OFF
 GENERATOR SWITCHES..... ON
 PITOT HEAT..... OFF
 INSTRUMENT SWITCH..... ON
 HEATER CONTROLS (3)..... OFF
 WINDSHIELD WIPERS..... OFF
 GYRO PRESSURE..... NORMAL
 FIRE WARNING CUTOUT..... NORMAL
 STATIC SOURCES..... NORMAL
 FIREWALL SHUTOFFS..... OPEN
 CARBURETOR HEAT..... COLD
 FUEL SELECTORS..... MAIN TANKS
 PROPELLER CONTROLS..... FORWARD
 THROTTLES..... IDLE
 MIXTURES..... IDLE CUT-OFF
 TRIM (3)..... 0, 0, 0
 FLAP HANDLE..... NEUTRAL
 LANDING GEAR HANDLE..... NEUTRAL
 COWL FLAPS..... OPEN & OFF

BATTERY SWITCH..... ON
 LANDING GEAR INDICATOR..... GREEN
 LEFT FUEL PRESSURE ANNUNCIATOR..... ON
 LEFT OIL PRESSURE ANNUNCIATOR..... ON
 LEFT VACUUM ANNUNCIATOR..... ON
 RIGHT FUEL PRESSURE ANNUNCIATOR..... ON
 RIGHT OIL PRESSURE ANNUNCIATOR..... ON
 RIGHT VACUUM ANNUNCIATOR..... ON
 LANDING GEAR HANDLE..... DOWN
 LANDING GEAR INDICATOR..... ORANGE
 LANDING GEAR WARNING..... ON
 THROTTLES..... ADVANCE
 LANDING GEAR WARNING..... OFF
 RIGHT THROTTLE..... IDLE
 LANDING GEAR WARNING..... ON
 LANDING GEAR HANDLE..... NEUTRAL
 LANDING GEAR WARNING..... OFF
 LEFT THROTTLE..... IDLE
 FLAP INDICATOR..... UP
 FLAP HANDLE..... DOWN
 FLAP INDICATOR..... CHECKED
 FLAP HANDLE..... NEUTRAL
 ENGINE INSTRUMENTS..... POWERED
 RIGHT ENGINE FUEL BOOST PUMP..... ON
 RIGHT ENGINE FUEL PRESSURE..... 14 - 16 PSI
 RIGHT ENG FUEL PRESS WARNING..... EXTINGUISHED
 RIGHT ENGINE FUEL BOOST PUMP..... OFF
 RIGHT ENGINE FUEL PRESSURE..... 0 PSI
 LEFT ENGINE FUEL BOOST PUMP..... ON
 LEFT ENGINE FUEL PRESSURE..... 14 - 16 PSI
 LEFT ENG FUEL PRESS WARNING..... EXTINGUISHED
 LEFT ENGINE FUEL BOOST PUMP..... OFF
 LEFT ENGINE FUEL PRESSURE..... 0 PSI
 OIL QUANTITY ANNUNCIATOR LIGHTS..... CHECKED
 CARGO FIRE WARNING..... CHECKED

HYDRAULIC PRESSURE..... CHECKED (500-1000)
 HYDRAULIC QUANTITY..... CKD (BOTTOM INDICATOR)
 STAR VALVE..... CLOSED

HEATER ANNUNCIATOR LIGHTS..... CHECKED
 FUEL QUANTITY (4 TANKS)..... CHECKED
 FIRE WARNING..... CHECKED
 FIRE WARNING CUTOUT..... CHECKED
 AVIONICS MASTER..... ON
 NAV/ COMM RADIOS..... SET
 ATIS/ ASOS..... COPY
 AVIONICS MASTER..... OFF
 BATTERY SWITCH..... OFF
 NO SMOKE/ SEATBELT SIGN..... ON
 ANTI-COLLISION LIGHT..... ON
 ALTIMETERS..... SET
 CHARTS..... ON BOARD
 HEATER FIRE EXTINGUISHER..... SAFETIED
 ENGINE FIRE BOTTLE..... CHARGED
 CRASH AXE..... STOWED
 COCKPIT FIRE EXTINGUISHERS..... ON BOARD
 CIRCUIT BREAKERS..... CHECKED
 CERTIFICATES & DOCUMENTS..... ON BOARD
 EMK..... CHECKED
 EMERGENCY EXITS..... CHECKED & SECURE
 ELT..... CHECKED
 AFT BALLAST..... ON BOARD & SECURE
 HYDRAULIC FLUID..... ON BOARD
 OIL..... ON BOARD

EXTERIOR PRE-FLIGHT

LEFT AILERON CONTROL LOCK REMOVE
LEFT ENGINE OIL QUANTITY CHECK
LEFT MAIN FUEL QUANTITY CHECK
LEFT AUX FUEL QUANTITY CHECK
LEFT FUEL & OIL DOORS SECURE
CARGO DOORS CHECK
LEFT AFT FUSELAGE CHECK
LEFT HORIZONTAL STABILIZER CHECK
LEFT ELEVATOR COTTER PINS (2) CHECK
LEFT ELEVATOR GROUND STRAP CHECK
LEFT ELEVATOR MOVEMENT CHECK
LEFT ELEVATOR STATIC WICKS CHECK
LEFT ELEVATOR TRIM ROD CHECK
LEFT ELEVATOR TRIM COTTER PINS (3) CHECK
LEFT ELEVATOR TRIM SETTING CHECK
LEFT ELEVATOR CONTROL LOCK CHECK
RUDDER CONTROL LOCK REMOVE
RUDDER GROUND STRAP CHECK
RUDDER COTTER PINS (2) CHECK
RUDDER TRIM ROD (1) CHECK
RUDDER TRIM COTTER PINS (3) CHECK
RUDDER STATIC WICKS (1) CHECK
STINGER CONDITION CHECK
STINGER STATIC WICK CHECK
STINGER LIGHTS CHECK
RIGHT ELEVATOR CONTROL LOCK REMOVE
RIGHT ELEVATOR TRIM SETTING CHECK
RIGHT ELEVATOR TRIM COTTER PINS CHECK
RIGHT ELEVATOR TRIM ROD CHECK
RIGHT ELEVATOR STATIC WICKS CHECK
RIGHT ELEVATOR MOVEMENT CHECK
RIGHT ELEVATOR GROUND STRAP CHECK
RIGHT ELEVATOR COTTER PINS CHECK
RIGHT HORIZONTAL STABILIZER CHECK
TAIL WHEEL AREA CHECK
TAIL WHEEL STRUT 4 INCHES (MINIMUM)
TAIL WHEEL INFLATION 50 LBS
TAIL WHEEL CONDITION CHECK

RIGHT MAIN FUEL TANK SUMPS CHECK
RIGHT AUX FUEL TANK SUMPS CHECK
RADOME CHECK
ANTENNAS CHECK
BLOWOUT DISCS (2) CHECK
PITOT TUBES REMOVE COVERS & CHECK
STATIC PORTS CHECK
LEFT ENGINE COWL FLAPS OPEN
LEFT ENGINE EXHASUT STACKS CHECK
LEFT ENGINE HYDRAULIC LINES CHECK
LEFT ENGINE REAR CYLINDERS CHECK
LEFT ENGINE WHEEL WELL CHECK
LEFT MLG DOWNLOCK MECHANISMS CHECK
LEFT CARBURETOR FUEL STRAINER CHECK
LEFT MLG INSPECTION LIGHTS CHECK
LEFT MLG PINS CHECK
LEFT MLG STRUT CHECK
LEFT MLG TIRE CHECK
LEFT MLG PRESSURE CHECK
LEFT MLG CHOCKS REMOVE
LEFT COWLING CHECK
LEFT OIL COOLER CHECK
LEFT ENGINE FRONT CYLINDERS CHECK
LEFT ENGINE CASE CHECK
LEFT PROPELLER CHECK
LEFT PROPELLER HUB CHECK
LEFT MAIN FUEL TANK SUMPS CHECK
LEFT AUX FUEL TANK SUMPS CHECK
LEFT WING LANDING LIGHT CHECK
LEFT WING LEADING EDGE CHECK
LEFT WING TIP CHECK
LEFT WING TIP LIGHTS CHECK
LEFT WING STATIC WICKS CHECK
LEFT AILERON CHECK
LEFT FLAP EXTENSION CHECK
LADDER STOW

RIGHT AFT FUSELAGE CHECK
VERTICAL STABILIZER CHECK
RIGHT ENGINE OIL QUANTITY CHECK
RIGHT MAIN FUEL QUANTITY CHECK
RIGHT AUX FUEL QUANTITY CHECK
RIGHT FUEL & OIL DOORS SECURE
RIGHT FLAP CONDITION CHECK
RIGHT AILERON CONDITION CHECK
RIGHT AILERON TRIM SETTING ZERO
RIGHT STATIC WICKS CHECK
RIGHT WING TIP CONDITION CHECK
RIGHT WING TIP LIGHTS CHECK
RIGHT WING LEADING EDGE CHECK
RIGHT WING LANDING LIGHT CHECK
RIGHT ENGINE COWL FLAPS OPEN
RIGHT ENGINE HYDRAULIC LINES CHECK
RIGHT ENGINE REAR CYLINDERS CHECK
RIGHT ENGINE WHEEL WELL CHECK
RIGHT MLG DOWNLOCK MECHANISMS CHECK
RIGHT CARBURETOR FUEL STRAINER CHECK
RIGHT MLG INSPECTION LIGHTS CHECK
RIGHT MLG PINS REMOVE
RIGHT MLG STRUT CHECK
RIGHT MLG TIRE CHECK
RIGHT MLG PRESSURE CHECK
RIGHT MLG CHOCKS CHECK
RIGHT COWLING CHECK
RIGHT OIL COOLER CHECK
RIGHT ENGINE FRONT CYLINDERS CHECK
RIGHT ENGINE CASE CHECK
RIGHT PROPELLER CHECK
RIGHT PROPELLER HUB CHECK