

VOLPAR B18T

BEFORE START

Tail Stand ----- STOWED
 Doors/Lockers ----- CLOSED
 Parking Brake----- AS REQD
 Switches----- ALL OFF
 Static System----- NORMAL
 Ldg Gear Control---- DOWN
 Fuel Shutoffs----- ON
 X-Feed----- OFF
 Fuel Quantity----- CHECKED
 Fuel Selector----- ON MAINS
 Props / Caps----- FLAT/CAPPED
 Feathering Levers-- UP
 Circuit Breakers---- IN
 Bus Tie----- ON
 Beacon----- ON
 Power Levers----- GND START

ENGINE START

GPU----- ON (if Used)
 Batt Switchs ON (parallel)
 Inverter----- CK both - ON
 Bus Tie----- ON
 Fire Warning----- CHECKED
 Fuel Boost Sw----- ON
 Pressure Checked

NTS Check(1st flight of day)

* Props----- CLEAR
 * Air/GND Switch---- AIR START
 * Ign Fuel CB----- ON
 * Start/Stop Sw----- START until
 * NTS Light Comes On
 * Air/GND Switch---- GND - NTS
 * Light Out then back on at 20-30%
 Proceed with Normal Start

START Right Engine 1st (typical)

abort if >715 ° (see Hot Start on Emerg)
 RPM----- NORMAL 65-75%
 EGT----- NORMAL
 Oil Pressure----- NORMAL
 Generator----- ON & Charging
 Generator----- OFF below
 80 Amps

START 2nd Engine

RPM,EGT,Oil Pres NORMAL
 Generators----- ON
 Voltage Check

Vmc=84 V1=91
 Vso=81 Vx=98
 Va=132 Vy=117

PRE-TAXI

GPU----- DISCONNECT
 Boost Pumps OFF
 Flight Papers----- ON BOARD
 OS Gov & Gov----- CHECKED
 Air/Ground----- OFF
 Start Arm----- OFF
 Batteries----- PARALLEL
 Generators----- ON & Charg.
 Bus Tie----- ON
 Radio Master----- ON
 Inverters----- ON
 3rd Battery----- CHECK - OFF
 Lights----- As Reqd
 Overspeed Gov----- CK (50 hrs)
 Prop Locks----- UNLOCKED
 ATIS/Clearance----- RECEIVED

TAXI/BEFORE TAKEOFF

Brakes----- CHECK
 Annunciators----- CLEAR
 Flaps----- SET
 Trim (x3)----- SET
 Gear Crank----- FREE
 Flight Controls----- CHECKED
 Radios----- SET L/R
 Heading Indicators-- SET L/R
 Engine Instruments- CHECKED
 Flight Instruments-- CHECKED
 EGT Limits----- REVIEW

LINE ITEMS

Boost Pumps----- ON
 Anti-Icing----- As Reqd
 Lights----- As Reqd
 Heading Indicators SET L/R
 Heat----- OFF
 Time----- NOTED
 Transponder----- ON ALT
 RPM----- 100%

TAKE-OFF

Warning Lights----- CHECKED
 Power----- SET
 Airspeed----- ALIVE
 Vmc
 V1/Rotate
 Pos. Rate
 Gear----- UP
 Flaps----- Confirm UP

Vyse=111
 Vfe=115 -142 pwr off
 Vle=138

CLIMB

Climb Power----- SET
 Fuel System----- SET
 Boost Pumps----- As Reqd
 Anti-Ice----- As Reqd
 Environmentals----- SET

CRUISE

Cruise Power----- SET
 Fuel System----- SET
 Anti-Ice----- As Reqd
 Lights----- As Reqd
 3rd Battery----- OFF
 Environmentals----- SET

DESCENT

Charts ----- REVIEW
 Altimeters----- SET L/R
 Shoulder Harness SET
 Fuel System----- MAINS
 Gear Crank----- FREE
 EGT Limits----- REVIEWED
 Landing Lights----- As Reqd

PRE LANDING

Heater----- OFF
 Boost Pumps----- On/Check
 RPM----- 100%
 Flaps----- As Reqd
 Landing Gear----- Down

After Landing

Transponder----- STANDBY
 RPM----- TAXI
 Anti-Ice----- OFF
 Trim----- Set for TO
 Landing Lights----- As Reqd
 Boost Pumps----- OFF
 Flaps----- UP

SHUT-DOWN

Electrical Switches OFF
 Invertor----- OFF
 Radio Master----- OFF
 Lights----- OFF
 Generators----- OFF
 Start/Stop Switch-- OFF
 Power Levers----- REVERSE
 (Before 30 %)
 Batteries----- OFF
 Power Levers----- START
 Paperwork ----- COMPLETE
 Aircraft ----- SECURED

Examined & Accepted	
FAA-AAL-E800-03	
5/14/2014	
Date	Signature

Item	Weight	Arm	Mom
Aircraft	6,725.0	100.13	704,820
Crew		32.00	0
		0.00	0
Comp 1 (624#)		78.00	0
Comp 2 (761#)		120.00	0
Comp 3 (800#)		152.00	0
Comp 4 (787#)		184.00	0
Comp 5 (360#)		215.00	0
Comp 6 (354#)		244.00	0
Comp 7 (363#)		273.00	0
Comp 8 (200#)		301.00	0
Wing Compartment		134.30	0
Survival Gear Wing	10.0	134.30	1,343
Survival Gear AFT shelf		310.00	0
Main Fuel (670# full)		103.00	0
Outbd Aux Fuel (2211# full)		142.00	0
Total -->			<--Total

C.G

C.G. Range

Wt	Fwd Limit	Aft Lmt
10,400	108.7	117.0
10,500	109.1	117.0
10,600	109.5	117.0
10,700	109.9	117.0
10,800	110.4	117.0
10,900	110.8	117.0
11,000	111.2	117.0
11,100	111.6	117.0
11,200	112.0	117.0
11,300	112.5	117.0
11,400	112.9	117.0
11,500	113.3	117.0
11,600	113.4	

**VOLPAR B18T
EMERGENCY CHECKLIST**

ENGINE FAILURE OR FIRE: AIRBORNE

RPM----- 100%
 Power----- Max
 Flaps----- Up
 Gear----- Up
 Dead Engine----- Identify
 Dead Engine----- Feather
 Fuel Shut Off----- Off
 Fire Extinguisher----- If Needed

AS TIME PERMITS

Generator----- Off Inop Side
 Ignition Fuel CB----- Pull Inop Side
 Boost Pump----- Off Inop Side
 Buss Tie----- On

AIRSTART (review Abort Procedure 1st)

Airspeed----- 110-139 KIAS
 Power Levers----- 1" Forward of FL Idle
 RPM Levers----- Taxi
 Boost Pump----- On
 Ignition/Fuel C.B.----- In
 Air/GND Switch----- Air
 Feather Lever----- Up
 Fuel Shutoff----- On
 Fuel Selector----- Forward
 Generator----- Off (Dead Engine)
 Stop/Start Switch----- Start/Hold until 55-60%
 Fuel Enrich----- As Needed
 Prop----- Check Unfeathering
 EGT----- Monitor
 Fuel Flow----- Monitor
 RPM----- Monitor
 Power----- Matched
 Generator----- On
 Boost Pump----- As Required

CROSS FEED

Transfer Pumps----- Both On
 Fuel Selectors----- Both Bypass
 Cross Feed Valve----- Pull
 Transfer Pumps----- On Tank To Be Used
 Off Opposite Side

ENGINE FAILURE OR FIRE: GROUND

Power----- Reduce
 Brakes/Reverse----- As Needed

If Fire

Feather Levers----- Feather
 Fuel Shutoff----- Off
 Fire Extinguishers----- If Needed (5 Sec)
 Batteries----- Off
 Evacuate

ABORTED GROUND START

Stop/Feather Lever ----- DOWN
 EGT ----- Monitor to less than 300 deg.
 STOP Switch ----- OFF
 Ignition Fuel Circuit Breaker OFF
 Starter to Cool 5 Minutes
 Starter - START for 10 Seconds to Purge Fuel
 Ignition Fuel Circuit Breaker ON
 Follow Normal Start Procedures

ABORTED AIRSTART (Review Before Airstart)

Stop/Start & Start Fuel Switches - RELEASE
 Allow to windmill for at least 1 Minute

Resume Start by:

Stop/Start Switch ----- HOLD in START
 Start Fuel Switch ----- HOLD ON
 IF combustion IS obtained

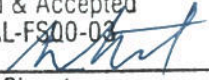
If Combustion NOT attained repeat above procedure
 Consider Reducing Airspeed/Altitude.
 Push Feather Lever Down to FEATHER engine
 if excessive time is needed (>2min) to get to lower
 altitude or slower airspeed for successive start

EMERGENCY GEAR EXTENSION

Landing Gear C.B.----- Check In
 Landing Gear Control----- Down

If Inoperative

Landing Gear C.B.----- Pull
 Landing Gear Control----- Down
 Clutch----- Depress
 Crank----- Push & Turn Until
 Crank Won't Turn
 Clutch----- Release
 Landing Gear----- Verify Down

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**VOLPAR B18T
EMERGENCY CHECKLIST**

ELECTRICAL SMOKE/FIRE

Generators----- Off
Battery Switches----- Off
Emergency Buss C.B.--- Pull
#3 Battery----- On
Fire----- Locate

If Emergency Buss is Faulty

Batteries----- On
Generators----- On
#3 Battery----- Off

If Essential Buss (or #1, #2)

Failed Buss C.B.----- Pull
Batteries----- On
Buss Tie----- On
#3 Battery----- On If Needed

ELECTRICAL FAILURE

GENERATOR INOPERATIVE

Generator Switch----- Off
Generator Reset Switch- Reset
Generator Field C.B.----- Reset
Generator Switch----- On

IF GENERATOR STILL INOPERATIVE

Generator Switch----- Off
Buss Tie----- On
Operating Generator----- Do Not Exceed
200 Amps

EXCESSIVE AMP INDICATION

Buss Tie----- Off
Failed Generator----- Off
Failed Gen. Field C.B.---- Off
Buss Tie----- On

If Still Excessive

Buss Tie----- Off

BUSS FAILURE

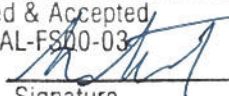
Buss Tie----- Off
All Loads Failed Buss---- Off
Main Battery C.B.'s----- Reset
Generator C.B.'s----- Reset
(Limit: One Reset)-----

EMERGENCY BUSS FAILURE

Emergency Buss C.B.---- Pull
#3 Battery----- On
Non-Required Equip.----- Off

INVERTOR FAILURE

Operating Invertor----- Off
Opposite Invertor----- On

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