Pre-Start N396JGT TURBINE A36		
1	Parking Brake - SET	
2	Avionics - OFF	
3	Circuit Breakeres - IN	
4	Gear Handle - DOWN	
5	Flaps - UP	
6	Cowl Flap - OPEN	
7	All Switches - OFF	
8	Fuel Selector Valve - ON	
9	Engine Anti-Ice System - OFF	
10	Condition - CUTOFF/FEATHER	
11	Power - GROUND IDLE	
12	Battery - ON	
13	Annunciators, Warning Lights - CHECK	
14	Fuel Quantity Indicators and Totalizer - CHECK and SET	
15	Fuel Return Screen Test Button - HOLD	
	A. Fuel Filter Annunciator Light - ON	
	B. Primary Boost Pump - ON, Light - OFF	
16	Fuel Pumps - CHECK	
	A. Primary Boost Pump - OFF; Fail light - ON	
	B. Standby Boost Pump - ON; Fail Light - OFF	
	Standby Boost Pump Light - ON	
	C. Standby Boost Pump - OFF	
17	Auxiliary Instrument Air - ON CHECK 4.3 - 5.9 hg	
	DO NOT ATTEMPT FLIGHT WITH INOPERATIVE BOOST PUMP OR FAILED FUEL RETURN SCREEN TEST!	
E	ngine Start	
1	Avionics Master Switch - OFF	
2	Primary Fuel Pump - ON	
3	Propeller - CLEAR	
4	TOT < 150°c	
5	Start/Gen Switch - START	
6	N1 15% above 7°c, 13% above -18°c, 12% below -18°c	
7	Condition - MAXIMUM POSITION (100% Prop Speed)	
8	TOT and N1 MONITOR (810 to 927°c)	
	10 Sec. max. 1 Sec. max At 927°c	
9	Propeller (Np) - CHECK rotating by 25% N1	

- **10** Oil Pressure POSITIVE Indication by start completion
- **11** Propeller UNFEATHERING by start completion
- 12 Start/Gen Switch OFF at 58% N1 (25 to 50 seconds)
- 13 N1 CHECK 59% to 65%
- 14 APU- OFF/ DISCONNECT if used
- **15 Power SET N1 > 64% for generator activation**
- 16 Start/Gen Switch GENERATOR
- 17 Standby Alternator Switch ON
- 18 Engine Ice Protection AS REQUIRED
- 19 Lights AS REQUIRED
- 20 Avionics AS REQUIRED

APU Start

- **1** Generator, Electrical and Avionics OFF
- 2 Standby Alternator OFF
- 3 Battery Switch ON
- 4 APU CONNECT
- 5 APU SET OUTPUT (28v 300a (max) for start, 120a continuous)
- 6 APU ON
- 7 Engine Start Back to NORMAL PROCEDURE

Aborted Start

- **1** Condition Control CUTOFF/FEATHER
- 2 Ignition C/B PULL
- 3 Start/Gen Switch START for 10 to 30 seconds
- 4 TOT MONITOR

Pre-Takeoff

- 1 Parking Brake SET
- 2 Engine Instruments CHECK
- 3 Flight Instruments CHECK and SET
- 4 Condition MAXIMUM POSITION (100% Prop Speed)
 - Power (Np) 1725 RPM
 - A. Propeller Overspeed Governer Test
 - (1) Press and hold each test button alone OBSERVE No Change

Α

- (2) Press and hold both test buttons OBSERVE Np decrease
- **B. Engine Ice Protection Test**
- (1) De-Ice Switch ON Observe INLET HEAT, IGN. lights, PROP and GEN. amp load increases, TOT rise

a. Inlet Test - PRESS Observe INLET HEAT light out and GEN. Amp load drop

- (2) De-Ice Switch OFF
- (3) Cowl Flap AS REQUIRED
- C. Gyro Pressure 4.3 to 5.9 in. hg.
- D. Power GROUND IDLE
- 5 Standby Alternator CHECK
 - A. Generator, Battery and Standby Alternator VERIFY ON
 - B. Load Meter VERIFY < 20amps
 - C. Primary Generator Switch OFF
 - D. STDBY ALT ON Annunciator light ON
 - E. INCREASE system load to > 20 amps
 - F. STDBY ALT ON Annunciator CHECK FLASHING
 - G. Generator Out Annunciator ON
 - H. Start/Gen Switch GENERATOR
 - I. Loadmeter CHECK for Primary Generator output
 - J. STDBY ALT ON, LOW BUS VOLT, GEN OUT Annunciators OFF
- 6 Trim SET
- 7 A. Aileron NUETRAL
- 9 B. Elevator SET 30 Up (60 Up for forward CG)
- 9 C. Rudder SET 50 Right
- 10 Flaps UP
- 11 Doors, Windows SECURED
- 12 Flight Controls CHECK
- 13 Fuel CHECK (Observe cold weather limits)
- 14 Cowl Flap CHECK OPEN
- **15** Annunciator Panel Warning Lights OFF (Except INLET HEAT, IGN if ice protection is on)
- 16 Parking Brake RELEASED

Takeoff

- 1 Flaps UP
- 2 Ice Protection AS REQUIRED
- **3** Power 107 psi and 810oC Maximum Limits
- 4 Rotation 69 KTS Climb 78 KTS (obstacle clearance)
- 5 Gear RETRACT When positive rate established

After Landing

- 1 Pitot Heat/Anti-Ice OFF
- 2 Flaps UP

3	Landing/Taxi Lights - AS REQUIRED		
4	Trim Tab - 3º Nose Up		
5	Cowl Flap - OPEN		
Shutdown			
1	Brakes - SET		
2	Flight Time - RECORD		
3	Avionics and Electrical Equipment - OFF		
4	Power - GROUND IDLE for 2 minutes		
5	Condition - CUTOFF/FEATHER		
6	TOT - MONITOR		
7	Start/Gen Switch - OFF		
8	Standby Alternator Switch - OFF		
9	Fuel Pump Switches - OFF		
10	Battery Switch - OFF		
11	Control Lock - INSTALLED		
12	Brakes - RELEASED		
13	Chocks/Tiedowns - INSTALLED		
14	Pitot Cover, Engine Plugs, Exhaust Covers - INSTALLED		
15	Propeller - SECURED		
Emo	Emergency Procedures		
Emo	ergency Airspeeds		
1	Emergency Decent - 154 KIAS		
2	Maximum Glide Range - 100 KIAS		
3	Emergency Landing Approach - 84 KIAS		
Maximum Glide Configuration			
1	Landing Gear - UP		
2	Flaps - UP		
3	Cowl Flap - CLOSED		
4	Condition Control - CUTOFF/FEATHER		
5	Airspeed - 100 KTS		
EMERGENCY AIRSPEEDS MAX GLIDE			
Engine Failure TURBINE A36			
During Takeoff Ground Roll			

1 Power Lever - GROUND IDLE

2 Brakes - APPLY

- 3 Condition Lever CUT OFF / FEATHER
- 4 Fuel Selector OFF
- 5 Fuel Pump OFF
- 6 Monitor TOT

After Liftoff

- 1 Airspeed 84 KIAS
- 2 Condition Control CUTOFF / FEATHER
- 3 Fuel Selector Valve OFF
- 4 Power Control FLIGHT IDLE
- 5 Fuel Pump OFF
- 6 Wing Flaps AS REQUIRED
- 7 Battery OFF

In Flight

- 1 Airspeed 100 KIAS
- 2 Condition Control CUTOFF/FEATHER
- 3 Fuel Pump OFF
- 4 Monitor TOT
- 5 Power Control FLIGHT IDLE
- 6 Generator OFF
- 7 Electrical Load REDUCE
- 8 If air start is warranted, refer to ENGINE RESTART PROCEDURES CHECKLIST
- 9 If air start is not warranted, refer to EMERGENCY LANDING WITHOUT ENGINE POWER CHECKLIST

Air Restart Procedure

- 1 Generator OFF
- 2 Electrical Load REDUCE
- **3** Condition Control CUTOFF/FEATHER
- 4 Engine Anti-Ice System OFF
- 5 Airspeed:
 - 75 140 KIAS below 15,000 Ft. MSL
 - 100 140 KIAS 15,000 to 19,000 Ft. MSL
- 6 Fuel Selector ON
- 7 Fuel Pump ON
- 8 Power Lever FLIGHT IDLE
- 9 START/GEN SWITCH START

- 10 TOT 150°C or lower and N1 15% below 15,000 Ft. MSL. N1 maximum obtainable above 15,000 Ft. MSL
- 11 START/GEN SWITCH START
- 12 Condition Control START
- 13 TOT and N1 MONITOR (810° TO 927° 10 seconds maximum)
- 14 De-energize the starter at 58% N1
- **15 Condition Control FLIGHT (Increase Np gradually when propeller unfeathers)**

If No Restart

- **1** Condition Control CUTOFF/FEATHER
- 2 Fuel Pump OFF
- **3** Fuel Selector OFF
- 4 Select most favorable landing site
- 5 Wing flaps as desired
- 6 The use of landing gear is dependent on the terrain where the landing must be made
- 7 See Emergency Landing Without Power

Engine Fire

In Flight

- 1 Firewall Air Control PULL TO CLOSE
- 2 Condition Control CUTOFF/FEATHER
- 3 Fuel Pump OFF
- 4 Fuel Selector OFF
- 5 Battery and Generator OFF (except IFR)
- 6 Cabin Heat and Air OFF (except overhead mixture)
- 7 Airspeed 110 KIAS (If fire is not extinguished, increase glide speed to find an airspeed which will provide and incombustible moisture)
- 8 Forced Landing Execute (as described in Emergency Landing Without Engine Power)

On the Ground

- **1** Condition Control CUTOFF/FEATHER
- 2 START/GEN SWITCH START to extinguish the fire.
- 3 Ign Circuit Breaker PULLED
- 4 Fuel Pump OFF
- 5 Fuel Selector OFF
- 6 Monitor TOT
- 7 Fire Extinguisher OBTAIN (have ground attendants obtain if not installed)
- 8 Engine SECURE

- 9 a. Start Switch OFF
- 10 b. Battery Switch OFF
- **11** Exit aircraft INSPECT FIRE DAMAGE, associated maintenance actions must be observed.

Electrical Fire In Flight

- **1** Battery and Generator OFF
- 2 Standby Fuel Pump ON
- 3 All Other Switches OFF
- 4 Vents/Cabin Air/Heat ACTIVATE
- 5 Fire Extinguisher ACTIVATE

If fire appears out and electrical power is necessary for continuance of the flight:

- 6 Battery and Generator ON
- 7 Monitor Electrical Load
- 8 Circuit Breakers CHECK for faulty circuit, do not reset
- 9 Radio/Electrical Switches ON one at a time, with delay after each unit short circuit is localized.

Cabin Fire

- **1** Battery and Generator OFF
- 2 Standby Fuel Pump ON
- 3 Vents/Cabin Heat CLOSED (To avoid drafts)
- 4 Fire Extinguisher ACTIVATE (If necessary)

Emergency Descent

- 1 Power FLIGHT IDLE
- 2 Condition HIGH RPM
- 3 Landing Gear DOWN
- 4 Airspeed ESTABLISH 154 KTS

Landing Emergencies

Emergency Landing Without engine Power

- 1 Airspeed 84 KIAS (flaps up); 79 KIAS (flaps 30°)
- 2 Condition Control CUTOFF/FEATHER
- 3 Fuel Pump OFF
- 4 Fuel Selector OFF
- 5 Flaps AS REQUIRED
- 6 Gear DOWN or UP (depending on terrain)
- 7 Battery and Generator Switches OFF
- 8 Doors UNLATCHED Prior to touchdown

- 9 Touchdown SLIGHTLY TAIL LOW
- 10 Brakes APPLY HEAVILY

Emergency Landing with Power - Gear Up

- 1 Airspeed 84 KIAS (flaps up); 79 KIAS (flaps 30°)
- 2 Power Control FLIGHT IDLE
- **3** Condition Lever CUTOFF/FEATHER
- 4 Battery Switch OFF
- 5 Fuel boost pump OFF
- 6 Fuel selector OFF
- 7 Doors UNLATCHED Prior to touchdown
- 8 Touchdown WINGS LEVEL During touchdown
- 9 Get clear of airplane as soon as possible after it stops.

System Emergencies

Low Gyro Pressure Annunciator Illuminated

- **1** Verify Engine power Settings NORMAL
- 2 Standby Instrument Air ON
- 3 Standby Instrument Air VERIFY proper function
- 4 LAND AS SOON AS POSSIBLE