

BONANZA G36 Turbo

PRE-FLIGHT / BEFORE ENGINE START

PARKING BRAKE.....ON

COWL FLAPS.....OPEN

BATTERY MASTER SWITCHES.....ON

ALTERNATOR SWITCHES.....ON

ENGINE START

NAV & BECON LIGHTS.....ON

THROTTLE LEVER.....FULL

RPM LEVER.....HIGH RPM

MIXTURE CONTROL.....FULL RICH

FUEL BOOST.....ON UNTILL FLOW PEAKS THEN OFF

THROTTLE LEVER..... APPROX ½" INCH

ENGINE.....START

THROTTLE LEVER.....1000 RPM

OIL PRESSURE.....CHECK

AFTER STARTING ENGINES

AVIONICS MASTER SWITCH.....ON
PITOT HEAT.....ON
LEAN ENGINE.....SEA LEVEL 96% - 97%

ATC.....ATIS
ATC.....CLEARANCE

BARO.....SET
FLIGHT ALT.....SET
TRANSPONDER.....SET / ON
G1000.....SET TO SUIT
ARM AP.....NAV / HDG.....V SPEED.....SET

TAXI

TAKEOFF TRIM.....4° NOSE UP
TAXI LIGHTS.....ON

BEFORE TAKEOFF - ENTER RUNWAY

STROBE LIGHTS.....ON
LANDING LIGHTS.....ON
FLAPS.....AS NEEDED

TAKEOFF

HDG BUG.....RESET
 FULL THROTTLE.....2700 RPM
 ROTATE.....73 KTS
 POSITIVE RATE OF CLIMB.....LANDING GEAR RETRACT
 AIRSPEED TRIM FOR.....120-125Kts
 AP.....AS NEEDED

CLIMB

LANDING & TAXI LIGHTS.....OFF
 COWL FLAPS.....CLOSE
 FUEL SELECTOR.....TO LOWER TANK

POWER	CLIMB TO	CRUISE AT	CLIMB RATE	RPM	SPEED	COMMENTS
29.6 inches	4,000 ft	-	1400 fpm	2700	120-125 IAS	Best climb rate
29.6 inches	4000ft - 8,000 ft	-	1300 fpm	2700	124-130 IAS	
29.6 inches	-	8,000 ft	-	2500	191 kts TAS	
29.6 inches	8000ft - 11,000 ft	-	1250 fpm	2700	126-133 IAS	
29.6 inches	-	11,000 ft	-	2500	198 kts TAS	Highest w/o O2
29.6 inches	11000ft - 17,500 ft	-	1200 fpm	2700	135-140 IAS	Oxygen needed
29.6 inches	-	**17,500 ft	-	2500	212 kts TAS	*Best cruise *
*WOT	17500ft - 22,000 ft	-	1000-900 fpm	2700	130-135 IAS	
*WOT	-	22,000 ft	-	2500	206 kts TAS	
*WOT	22000ft - 25000 ft	-	500-400 fpm	-	130-135 IAS	
*WOT	-	25,000 ft	-	2500	197 kts TAS	

* WOT =wide open throttle . **After 18,000 ft manifold pressure gradually drops .

CRUISE

FUEL SELECTOR.....TO LOWER TANK

CRUISE AT	POWER	RPM - *gals/hr - speed	RPM - *gals/hr - speed
8,000 ft	29.6 inches	2500 - 17.9 - 191 Tas	2400 - 17.3 - 186 Tas
11,000 ft	29.6 inches	2500 - 17.5 - 196 Tas	2400 - 16.7 - 194 Tas
17,500 ft	29.6 inches	2500 - 16.8 - 212 Tas	2400 - 15.1 - 206 Tas
22,000 ft	**WOT	2500 - 14.7 - 203 Tas	2400 - 12.6 - 198 Tas
25,000 ft	**WOT	2500 - 12.6 - 196 Tas	2400 - 11.9 - 193 Tas

** slightly rich of peak - varies with o/s temp and pressure. **wide open throttle - MAP drops from 18,000 ft*

BEST CRUISE 222Kts TAS 255 at 17,500 feet.....2,500 RPM

DESCENT

FUEL SELECTOR.....TO LOWER TANK

ALT.....SET

VS TO.....AS NEEDED

APPROACH

FUEL SELECTOR.....TO FULLER TANK
COWL FLAPS.....OPEN
AUX FUEL PUMPS.....AS NEEDED
LANDING GEAR.....<154KTS.....DOWN
FLAPS BELOW.....<145 KTS.....APPR
PROPELLERS.....HIGH RPM
MIXTURE.....FULL RICH
FULL FLAPS<124 KTS.....LAND
APPROACH SPEED.....110 KTS

1,000 FT

LANDING & TAXI LIGHTS.....ON
FINAL APPROACH SPEED.....90 KTS
LAND AT.....70 KTS

AFTER LANDING TURN OFF – TAXI

FLAPS.....UP
STROBE LIGHTS.....OFF
LANDING LIGHTS.....OFF
TRIM.....SET TO ZERO
AUX FUEL PUMPS.....OFF

TURN TO PARKING

TAXI LIGHTS.....OFF

SHUT DOWN

PARKING BRAKE.....ON

THROTTLE.....1000 RPM

AVIONICES.....OFF

PITOT HEAT.....OFF

ENGINE MIXTURE.....IDLE/CUT OFF

ENGINE PROPELLER.....FEATHER

MAGNETO/START SWITCHES.....OFF

ALTERNATOR SWITCHES.....OFF

BATTERY MASTER SWITCHES.....OFF

LIGHTS.....ALL OFF