

# MODEL 17 -- CHECK LIST

## (1) BEFORE START

Bag. Door	Locked
Prop.	10 Blades
Seat	Locked
Brake	Parked
Gear	Down
Master	On
Fuel Computer	Set
OilHeat/Bypass	Set
Carb. Heat	Cold
Mixture	Rich
Throttle	1/8 - 1/4"
Flaps	Up/Off
Prop.	DEC. RPM
Fuel Selector	Main
Pre Lube	Run Pre Lube Pump
	Until Pressure In
	Green. Hold for
	20 Seconds
Prime Fuel Press	3 - 5 PSI

## (2) AFTER START

Oil Press	20 to 30 PSI
Alternator	Switch on
Prop	In at 50#
Warm - up	6-800 RPM
1000 RPM	At 104° F. oil temp
Radios	On

## (3) RUN UP

Mixture	Rich
Oil Bypass	In
Fuel	Main/Qty.
Mags.	24" 1400
Alternator	Charging
Engine Guages	Check
Carb. Heat	Check
Vacuum	5"
Prop.	Exercise
Controls	Free
Elevator Trim	Set T/O
Rudder Trim	Neutral
Flaps	Up/Off
Flt. Inst.	Ck/Set
Xpndr.	On

## (4) TAKE - OFF

Carb. Heat	Cold
Prop.	In
Tail Wheel	Lock

## (5) CRUISE

Cyl. Temp.	Max. 450° F
Oil Press	70 - 90
Oil Temp.	140 - 170° F.
Carb. Air	32° - 40° F
Fuel Press	3 - 5 LB.

## (6) LANDING

Fuel	Quan/Main
Mixture	Rich
Carb. Heat Check	Hot
Gear	Dn/Green
Prop. Control	In
Throttle Horn	Check
Flap	Down

## (7) SHUT - DOWN

Radio	Off
Prop	Full Dec.
Cyl. Head	Dn300° F
RPM	1000 - 1100 15 sec.
Mixture	Lean
Throttle	Close
Trim	Set T/O
Master Switch	Off
Mags.	Off
Fuel	Off
Controls	Secure
Keys	Out (Locked)
Land Gear	Relieve Chain Tension

## (8) FLIGHT PLAN CLOSE

PRESS. ALT.	STD. TEMP °F	MAXIMUM CRUISE				NORMAL CRUISE				ECONOMICAL CRUISE			
		2000 RPM MP	75% PWR HP	GALS/HR	TIAS	1900 RPM MP	67½% PWR HP	GALS/HR	TIAS	1800 RPM MP	60% PWR HP	GALS/HR	TIAS
Sea L.	59	31	300	27	174	30	270	23.4	166	29	240.	20.4	157
2500	50	30	300	27	178	29	270	23.4	170	28	240	20.4	161
5000	41	29	300	27	184	28	270	23.4	174	27	240	20.4	165
7500	32	28	300	27	187	27	270	23.4	178	26	240	20.4	169
10000	23	26.8	290	26	189	26	270	23.4	183	25	240	20.4	174
12500	14	24.5	265	24	185	24.5	250	21.6	180	23.5	230	20.0	173
15000	5	22.5	245	22	182	22	228	19.7	176	21.5	210	17.9	158

Full Throttle:

Above 7,500 feet

Above 10,000 feet

Above 10,000 feet

(Correction for Air Temp. Difference: MP may be increased 1" for each 10°F outside air temp. above Std. Temp. and decrease 1" for each 10°F below Std. Temp.)

NOTE: TIAS IN MPH

Some time ago (1942) Beech Aircraft ran a series of flight tests of an aerodynamic nature on the D-17-S.

The results of these tests just came to the surface and are reproduced in the above chart. It is interesting to note they confirm what most of us have found flying our own aircraft.

Note 300 hp is 75% of 400 hp not 450 as one might think. 450 hp is available for one minute at take-off. Same applies to 270 and 240 hp.

Jim Gorman