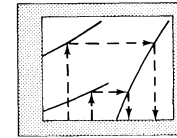
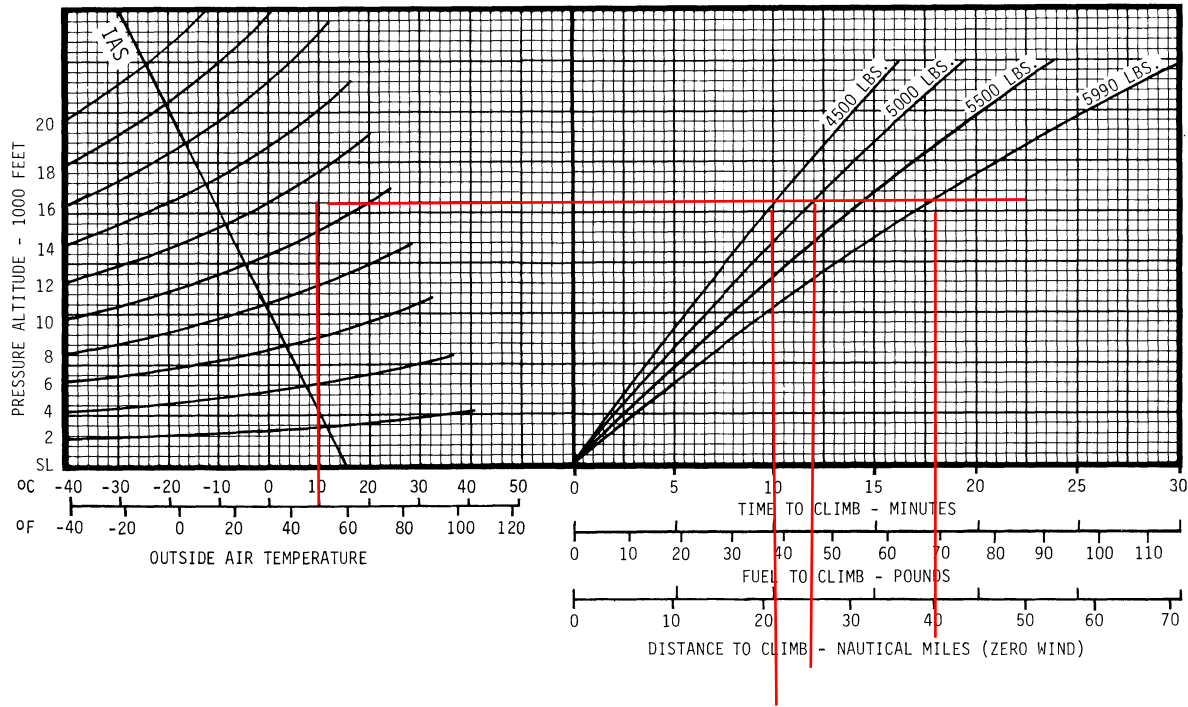


fuel consumption estimate									
start, taxi, runup (per poh)		31 lb							
climb:									
using airport elevation = sea level									
cruise altitude:		11,000 ft		(PFD data)					
temp on gnd		32 C		(PFD data)					
temp in cruise		10 C		(PFD data)					
at 4,500 lb: time 10 min fuel: 38lb approx 3.8 lb/min (figure 5-19)									
at 5990 lb time 18 min fuel: 69lb approx 3.83 lb/min (figure 5-19)									
Actual climb duration: 30 min (PFD data) approx 114 lb									
Cruise:									
using 10,000		(fig 5-34)							
2450 RPM									
29.5 MP									
temp		10 C		(PFD data)					
TAS		190 knots		(fig 5-34)					
Burn Rate:		200 lb/hr		(interpolated between -5 C and +15C values)					
Actual speed in Cruise was about:		140 KIAS		about		170 KTAS			
This speed is equivalent to about:		2450 rpm		25 MP		burn rate		about: 168 lb/hr	
Cruise duration		26 min		(PFD data)					
fuel in cruise:		73 lb							
Descent (Fig 5-24)									
Time:		21 min							
fuel		59 lb							
about:		2.8 lb/min							
actual decc		10 min		(PFD data)					
Fuel used about:		10x2.8		28 lb					

Total estimated fuel:										
start taxi runup		31	lb							
Climb		114	lb							
cruise		73	lb							
descent		28	lb							
total:		246	lb	about	41	gallons	6.0	lbs/gal		

TIME, FUEL AND DISTANCE TO CLIMB - CRUISE CLIMB



- CONDITIONS:
1. 2450 RPM and 29.5 Inches Hg.
 2. Landing Gear - UP
 3. Wing Flaps - UP.
 4. Cowl Flaps - AS REQUIRED.
 5. Airspeed - 120 KIAS.
 6. Mixtures - Recommended Fuel Flow.

- NOTE:
1. Time, fuel and distance for the climb are determined by taking the difference between the airport altitude and initial cruise, altitude conditions.
 2. For total fuel used, add 31 pounds for start, taxi and takeoff.

Figure 5-19

CRUISE - ALL ENGINES OPERATING WITH RECOMMENDED LEAN MIXTURE

NOTE:

- At 10,000 Feet, increase speed by 3 KTAS for each 500 pounds below 5990 pounds.
- At 15,000 Feet, increase speed by 4 KTAS for each 500 pounds below 5990 pounds.
- Operations at peak EGT may be utilized with power settings within the boxes if the airplane is equipped with the optional EGT system.

ALTITUDE	RPM	HP	-25°C (-13°F)			-5°C (STD TEMP) (23°F)			15°C (59°F)		
			PERCENT BHP	KTAS	TOTAL LB/HR	PERCENT BHP	KTAS	TOTAL LB/HR	PERCENT BHP	KTAS	TOTAL LB/HR
10,000 FEET	2450	29.5	78.2	190	218	73.7	190	207	69.2	189	197
	2450	27.0	70.3	182	199	66.2	182	190	62.2	180	180
	2450	25.0	64.0	175	185	60.3	174	176	56.6	171	167
	2450	23.0	57.7	167	170	54.4	165	162	51.1	162	154
	2300	32.0	79.1	191	220	74.6	191	209	70.0	190	199
	2300	31.0	76.4	188	214	72.0	188	203	67.6	187	193
	2300	29.0	70.3	182	199	66.2	182	190	62.2	180	180
	2300	27.0	64.3	175	185	60.6	174	177	56.9	172	168
	2300	25.0	58.8	168	172	55.4	166	164	52.0	164	157
	2300	23.0	52.5	159	158	49.5	157	151	46.5	153	144
	2200	32.0	75.1	187	211	70.8	187	201	66.5	185	190
	2200	31.0	73.0	185	206	68.8	185	196	64.6	183	186
	2200	29.0	67.1	179	192	63.3	178	183	59.4	176	174
	2200	27.0	61.2	172	178	57.7	170	170	54.2	167	162
	2200	25.0	55.3	163	164	52.1	161	157	48.9	158	149
	2200	23.0	49.7	154	151	46.9	152	145	44.0	147	138
	2100	29.0	62.9	174	182	59.3	172	174	55.7	170	165
2100	27.0	57.7	167	170	54.4	165	162	51.1	162	154	
2100	25.0	52.2	158	157	49.2	156	150	46.2	152	143	
2100	23.0	46.3	148	143	43.6	145	137	40.9	138	131	
2100	21.0	41.0	137	131	38.7	130	125	36.3	115	120	
15,000 FEET	2450	29.5	78.2	199	218	73.7	199	207	69.2	197	197
	2450	27.0	70.6	191	200	66.5	190	191	62.5	188	181
	2450	25.0	64.3	183	185	60.6	181	177	56.9	178	168
	2450	23.0	58.1	174	171	54.7	172	163	51.4	168	155
	2300	32.0	79.3	200	220	74.7	200	210	70.2	199	199
	2300	31.0	76.5	198	214	72.1	197	204	67.7	195	193
	2300	29.0	70.6	191	200	66.5	190	191	62.5	188	181
	2300	27.0	64.7	184	186	61.0	182	178	57.2	179	169
	2300	25.0	59.1	176	173	55.7	173	165	52.3	170	157
	2300	23.0	53.2	166	159	50.1	163	152	47.1	157	145
	2200	32.0	75.8	197	212	71.5	196	202	67.1	195	192
	2200	31.0	73.7	194	207	69.5	194	197	65.2	192	188
	2200	29.0	67.5	187	193	63.6	186	184	59.7	183	175
	2200	27.0	61.6	179	179	58.0	177	171	54.5	174	162
	2200	25.0	56.0	171	166	52.8	168	158	49.6	164	151
	2200	23.0	50.1	160	152	47.2	157	145	44.3	149	139
	2100	29.0	63.6	182	184	60.0	180	175	56.3	177	167
2100	27.0	58.4	175	172	55.1	172	164	51.7	169	156	
2100	25.0	52.9	165	159	49.8	163	151	46.8	156	144	
2100	23.0	46.9	154	145	44.3	148	138	41.5	139	132	
2100	21.0	41.7	140	132	39.3	130	127				

1 November 1979

5-39

TIME, FUEL AND DISTANCE TO DESCEND

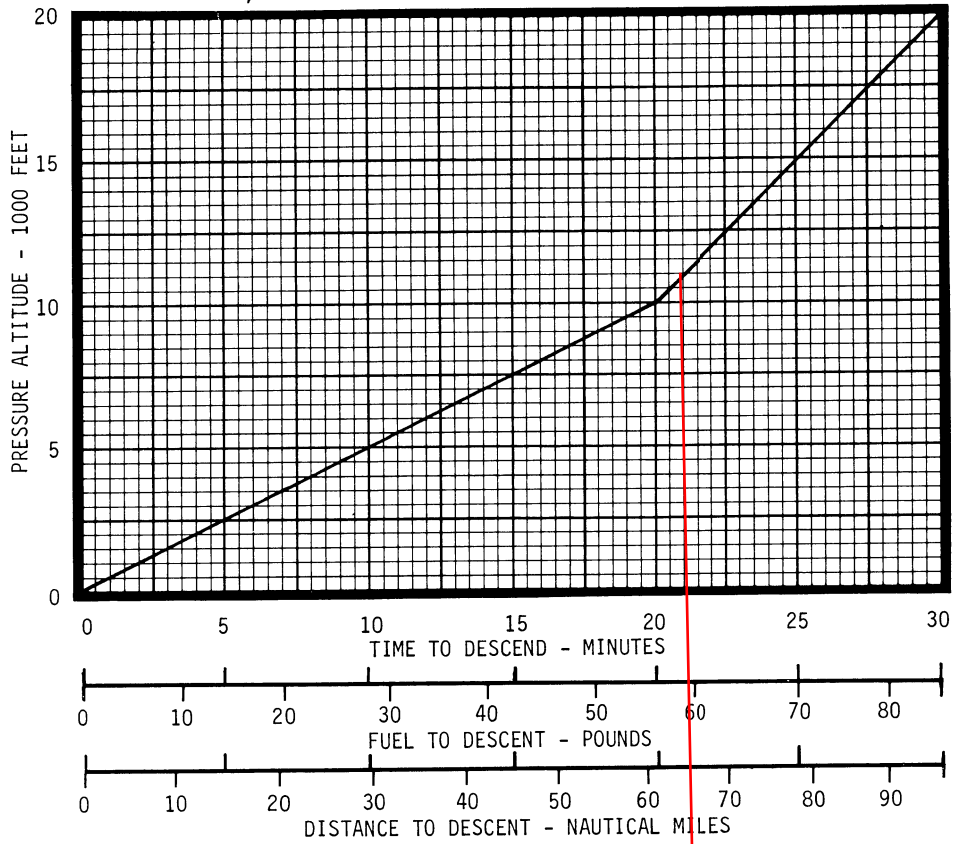
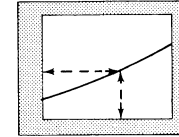


Figure 5-24



MODEL **335**

CONDITIONS:

1. Power - As Required.
2. Above 10,000 Feet, Descend at 1000 Feet Per Minute.
3. Below 10,000 Feet, Descend at 500 Feet Per Minute.
4. Landing Gear - UP.
5. Wing Flaps - UP.
6. Airspeed - 170 KIAS.
7. Cowl Flaps - CLOSED.

SECTION 5
PERFORMANCE

53847010