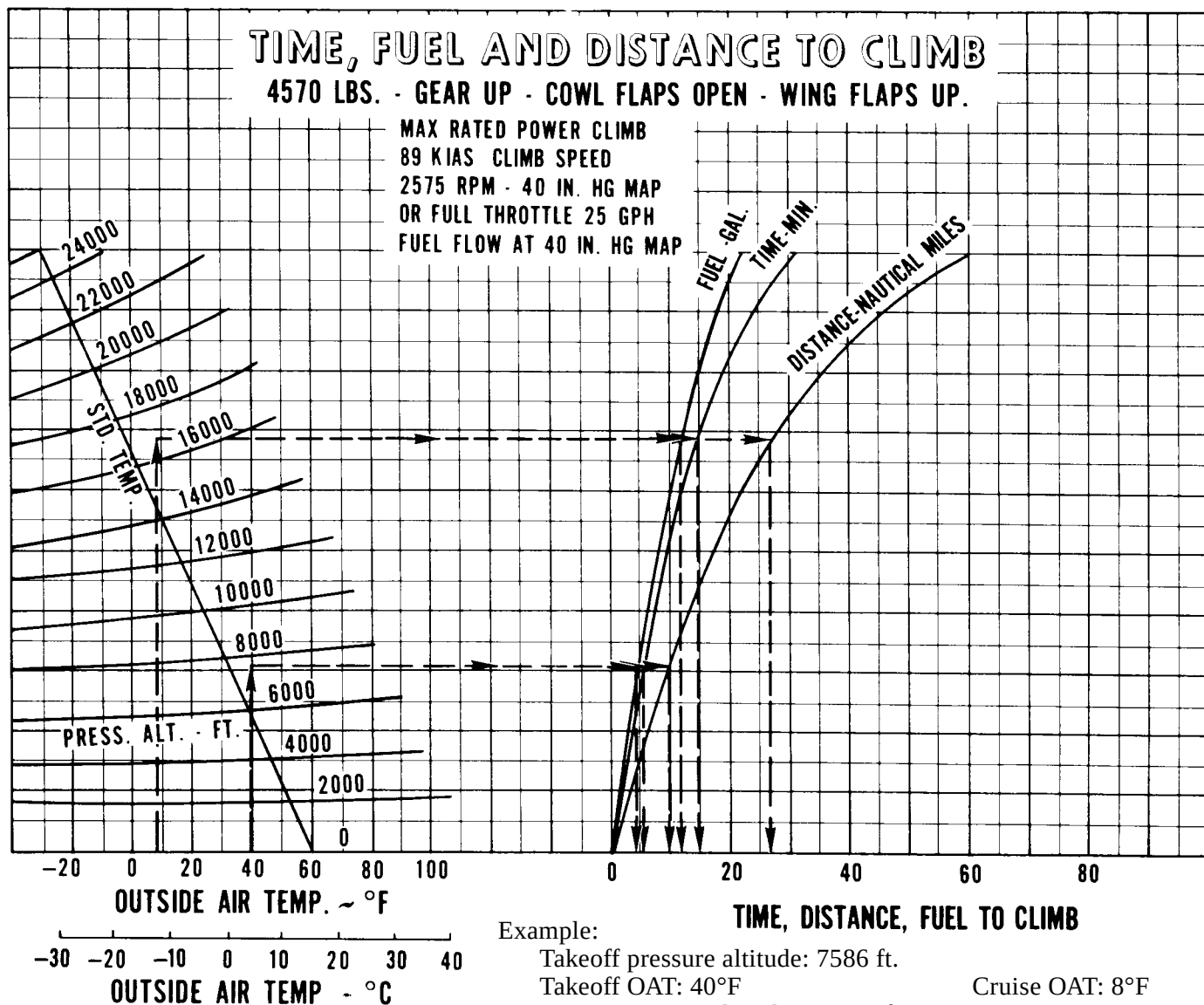


PA-34-200T

TIME, FUEL AND DISTANCE TO CLIMB

4570 LBS. - GEAR UP - COWL FLAPS OPEN - WING FLAPS UP.

MAX RATED POWER CLIMB
89 KIAS CLIMB SPEED
2575 RPM - 40 IN. HG MAP
OR FULL THROTTLE 25 GPH
FUEL FLOW AT 40 IN. HG MAP



Example:

Takeoff pressure altitude: 7586 ft.

Takeoff OAT: 40°F

Cruise pressure altitude: 16,500 ft.

Time to climb: (15 minus 6) = 9 min.

Fuel to climb: (12 minus 4) = 8 gal.

Distance to climb: (26 minus 10) = 16 nautical miles.

Cruise OAT: 8°F

Power: Maximum power climb

TIME, FUEL AND DISTANCE TO CLIMB

Figure 5-21

POWER SETTING TABLE — T.C.M. TSIO 360E SERIES

PRESS. ALT. FEET	STD. ALT. TEMP. °C	45% POWER (APPROX. 16.1 GPH FUEL CONS.)					55% POWER (APPROX. 18 GPH FUEL CONS.)					
		RPM	2000	2100	2200	2300	2000	2200	2300	2400	2500	2575
		MANIFOLD PRESSURE — INCHES MERCURY										
S.L.	15		27.6	26.4	25.6	24.6	31.8	29.6	28.4	27.0	26.0	25.6
2000	11		26.8	25.6	25.0	24.0	30.8	28.5	27.6	26.4	25.4	25.0
4000	7		26.0	25.0	24.0	23.4	29.8	28.0	27.0	25.8	25.0	24.6
6000	3		25.0	24.4	23.6	22.8	29.0	27.4	26.4	25.2	24.4	24.0
8000	-1		24.6	23.6	22.8	22.3		26.6	25.6	24.8	24.0	23.8
10000	-5		23.8	23.0	22.4	21.8		26.0	25.0	24.2	23.6	23.2
12000	-9		23.0	22.4	21.7	21.0		25.0	24.4	23.8	23.0	22.8
14000	-13		22.6	21.8	21.0	20.6		24.5	23.8	23.0	22.6	22.4
16000	-17			21.0	20.4	20.0		24.0	23.4	22.6	22.0	22.0
18000	-21				19.8	19.4			22.8	22.0	21.0	21.7
20000	-25					18.8				21.6	20.8	21.0
22000	-28										20.6	20.8
24000	-33										20.4	20.4
25000	-34										20.0	20.0

To maintain constant power, add approximately 1% for each 6°C above standard, subtract approximately 1% for each 6°C below standard.

NOTE: Full throttle manifold pressure values may not be obtainable when atmospheric conditions are non-standard.

POWER SETTING TABLE (45% AND 55%)

Figure 5-23

POWER SETTING TABLE — T.C.M. TSIO 360E SERIES

PRESS. ALT. FEET	STD. ALT. TEMP. °C		65% POWER (APPROX. 20.5 GPH FUEL CONS.)						75% POWER (APPROX. 23.6 GPH FUEL CONS.)			
		RPM	2200	2300	2400	2500	2575		2300	2400	2500	2575
			MANIFOLD PRESSURE — INCHES MERCURY									
S.L.	15		33.5	32.0	30.6	29.8	29.2		35.5	34.0	33.0	32.8
2000	11		32.8	31.5	30.0	29.0	28.8		35.0	33.4	32.6	32.0
4000	7		32.0	30.8	29.6	28.6	28.2		34.4	32.8	32.0	31.6
6000	3		31.4	30.0	29.0	28.0	27.8		33.6	32.0	31.4	30.9
8000	-1		30.6	29.6	28.4	27.6	27.4		33.0	31.6	30.8	30.3
10000	-5			28.8	27.8	27.0	27.0		32.4	31.0	30.2	29.8
12000	-9			28.0	27.2	26.6	26.4		31.6	30.4	29.8	29.3
14000	-13			27.4	26.6	26.0	26.0			29.8	29.2	29.0
16000	-17			26.7	26.0	25.8	25.6			29.4	28.8	28.6
18000	-21				25.6	25.2	25.0				28.4	28.3
20000	-25					24.8	24.8					28.0
22000	-28					24.4	24.4					
24000	-33						24.0					
25000	-34											

To maintain constant power, add approximately 1% for each 6°C above standard, subtract approximately 1% for each 6°C below standard.

NOTE: Full throttle manifold pressure values may not be obtainable when atmospheric conditions are non-standard.

POWER SETTING TABLE (65% AND 75%)

Figure 5-25

NON-STANDARD TEMPERATURE RANGE WITH MAXIMUM POWER CLIMB

USABLE FUEL 123 GALLONS - 4570 LBS. - MIXTURE LEANED 25° RICH OF PEAK DURING CRUISE

GEAR UP - COWL FLAPS CLOSED - WING FLAPS UP - CLIMB AT M.C.P.

DESCENT AT 1000 FPM AND 129 KIAS - NO WIND

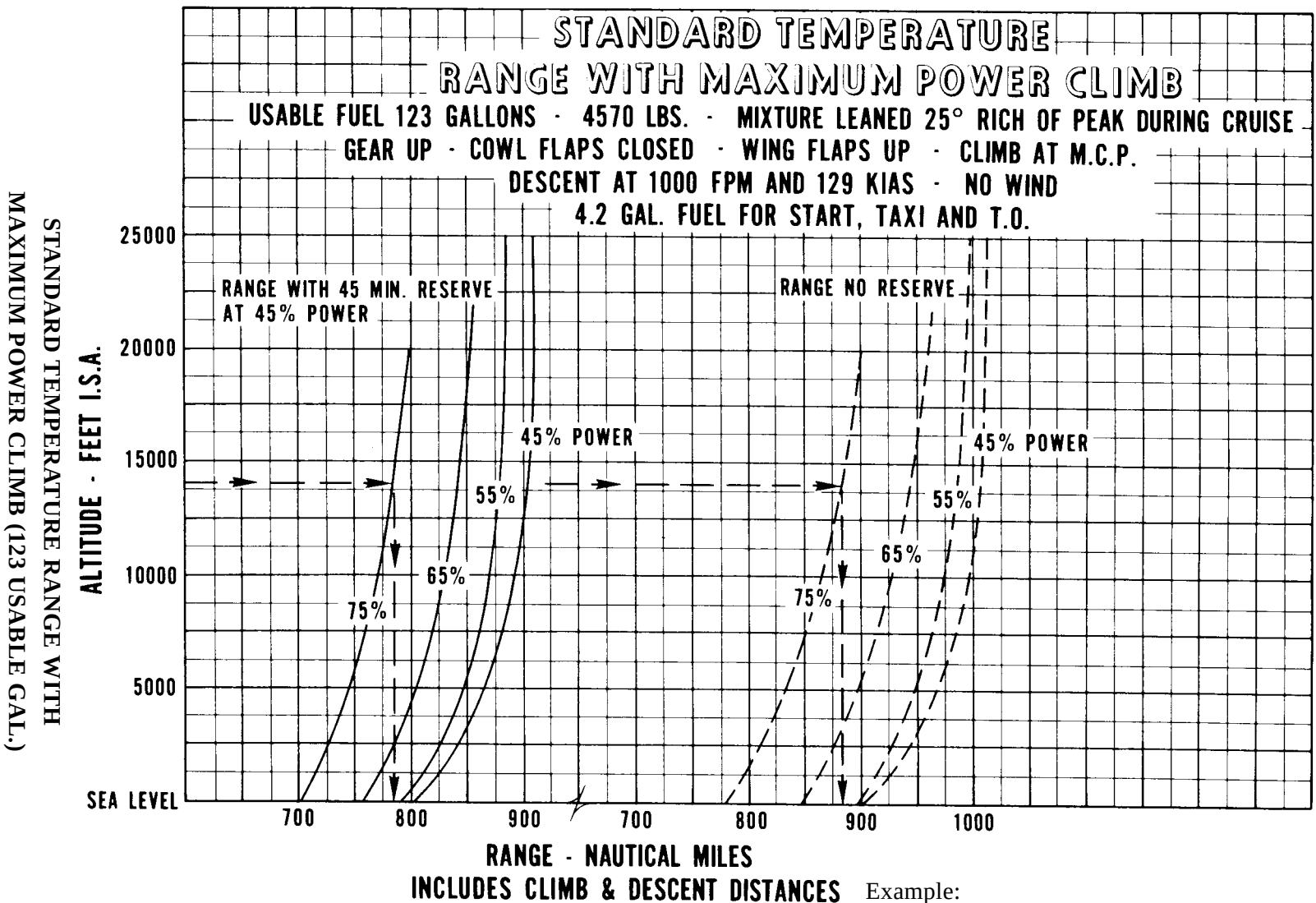
4.2 GAL. FUEL FOR START, TAXI AND T.O.

PRESS. ALT. FEET	O.A.T. °C		45 MIN RESERVE				NO RESERVE			
			% POWER				% POWER			
			75	65	55	45	75	65	55	45
0	ISA + 30° C	-15	660	702	746	735	734	782	830	818
5000		-25	705	756	800	807	785	843	893	901
10,000		-35	742	797	840	859	829	891	939	961
15,000		-45	761	821	857	878	852	920	961	985
20,000		-55	778	832	864	880	874	936	971	990
25,000		-65		835	860	874		941	970	988
0	ISA + 15° C	0	682	731	775	771	759	813	863	858
5000		-10	728	782	827	838	812	870	921	934
10,000		-20	759	816	858	882	848	912	960	987
15,000		-30	775	839	870	888	868	936	975	997
20,000		-40	792	843	874	888	890	948	923	999
25,000		-50		841	869	882		945	978	990
0	ISA - 15° C	30	724	780	826	833	806	868	919	927
5000		20	762	819	864	886	850	914	964	989
10,000		10	781	846	883	904	873	945	987	1011
15,000		-0	800	857	889	905	897	960	998	1016
20,000		-10								
25,000		-20								
0	ISA - 30° C	-45	745	801	848	860	829	891	943	957
5000		35	774	835	879	903	864	930	980	1007
10,000		25	793	857	892	912	887	958	998	1021
15,000		15	812	866	897	912	910	970	1007	1024
20,000		15								
25,000		-5								

NON-STANDARD TEMPERATURE RANGE WITH MAXIMUM POWER CLIMB (123 USABLE GAL.)

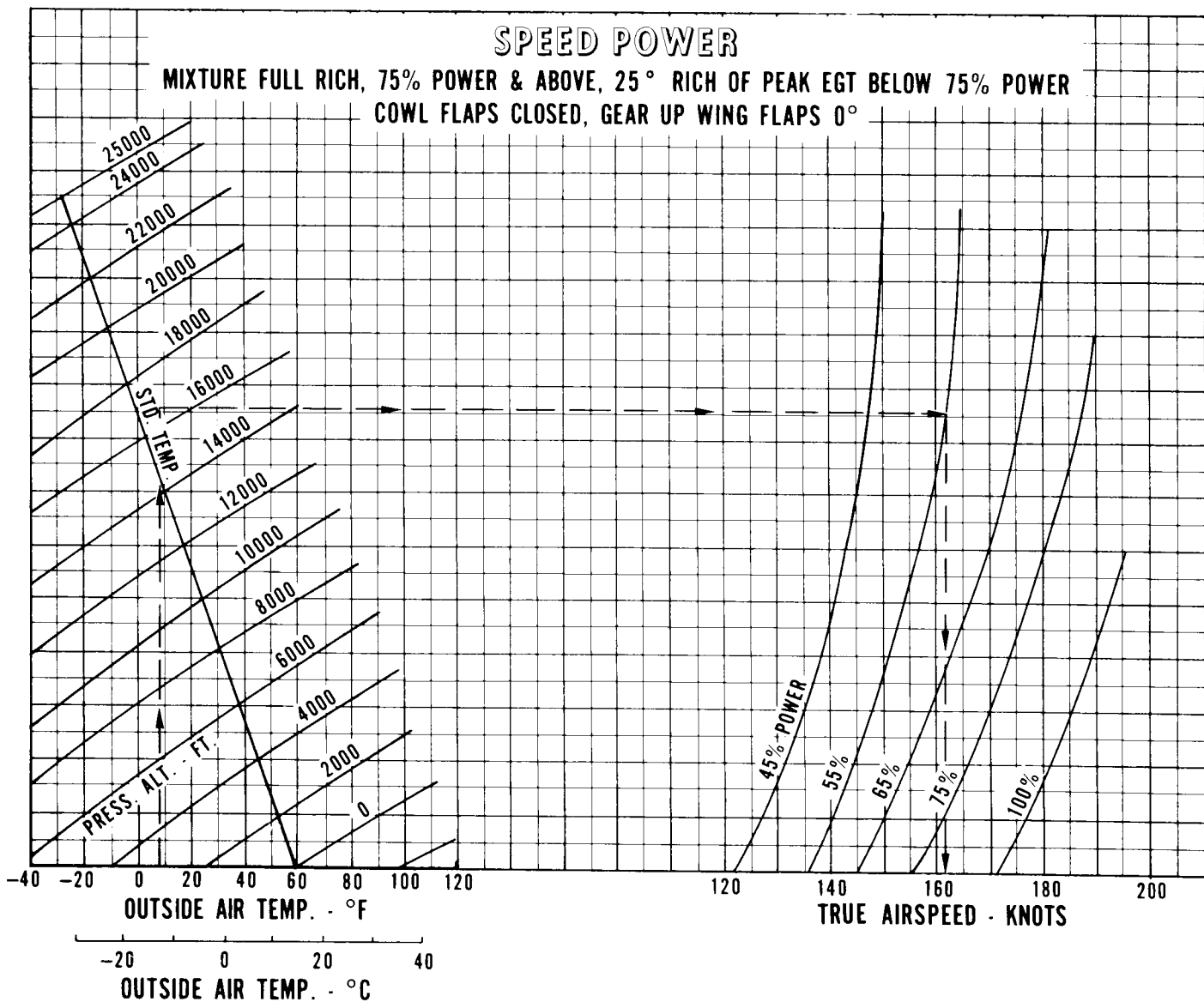
Figure 5-28

PA-34-200T



STANDARD TEMPERATURE RANGE WITH
MAXIMUM POWER CLIMB (123 USABLE GAL.)
Figure 5-29

PA-34-200T



Example:
OAT 8°F
Pressure altitude: 16,500 ft.
Power: 55%
True airspeed: 161 knots

SPEED POWER
Figure 5-31