

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

PRESS. ALT. FEET	STD. ALT. TEMP. °C	55% POWER					65% POWER					75% POWER					
		RPM	2200	2300	2400	2500	2575	2200	2300	2400	2500	2575	2200	2300	2400	2500	2575
MANIFOLD PRESSURE — INCHES MERCURY																	
S.L.	15	29.0	27.7	26.8	26.0	25.0	32.8	31.1	30.0	29.2	28.2	34.8	33.8	32.8	31.5		
2000	11	29.0	27.7	26.8	26.0	25.0	32.8	31.1	30.0	29.2	28.2	34.8	33.8	32.8	31.5		
4000	7	29.0	27.7	26.8	26.0	25.0	32.8	31.1	30.0	29.2	28.2	34.8	33.8	32.8	31.5		
6000	3	29.0	27.7	26.8	26.0	25.0	32.8	31.1	30.0	29.2	28.2	34.8	33.8	32.8	31.5		
8000	-1	29.0	27.7	26.8	26.0	25.0	—	31.1	30.0	29.2	28.2	—	33.8	32.8	31.5		
10000	-5	29.0	27.7	26.8	26.0	25.0	—	31.1	30.0	29.2	28.2	—	33.8	32.8	31.5		
12000	-9	—	27.7	26.8	26.0	25.0	—	—	30.0	29.2	28.2	—	—	32.8	31.5		
14000	-13	—	27.7	26.8	26.0	25.0	—	—	30.0	29.2	28.2	—	—	32.8	31.5		
16000	-17	—	—	26.8	26.0	25.0	—	—	—	29.2	28.2	—	—	—	31.5		
18000	-21	—	—	—	26.0	25.0	—	—	—	29.2	28.2	—	—	—	31.5		
20000	-25	—	—	—	26.0	25.0	—	—	—	—	28.2	—	—	—	31.5		

APPROXIMATE FUEL FLOW

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

CRUISE POWER

- 55% Power 9.2 GPH
- 65% Power 10.8 GPH
- 75% Power 12.0 GPH

NOTE: Fuel flow will vary with altitude; therefore, cruise fuel control must be accomplished by adjusting EGT (peak EGT for best economy and peak EGT plus 100°F rich for best power) rather than leaning to an indicated fuel flow.

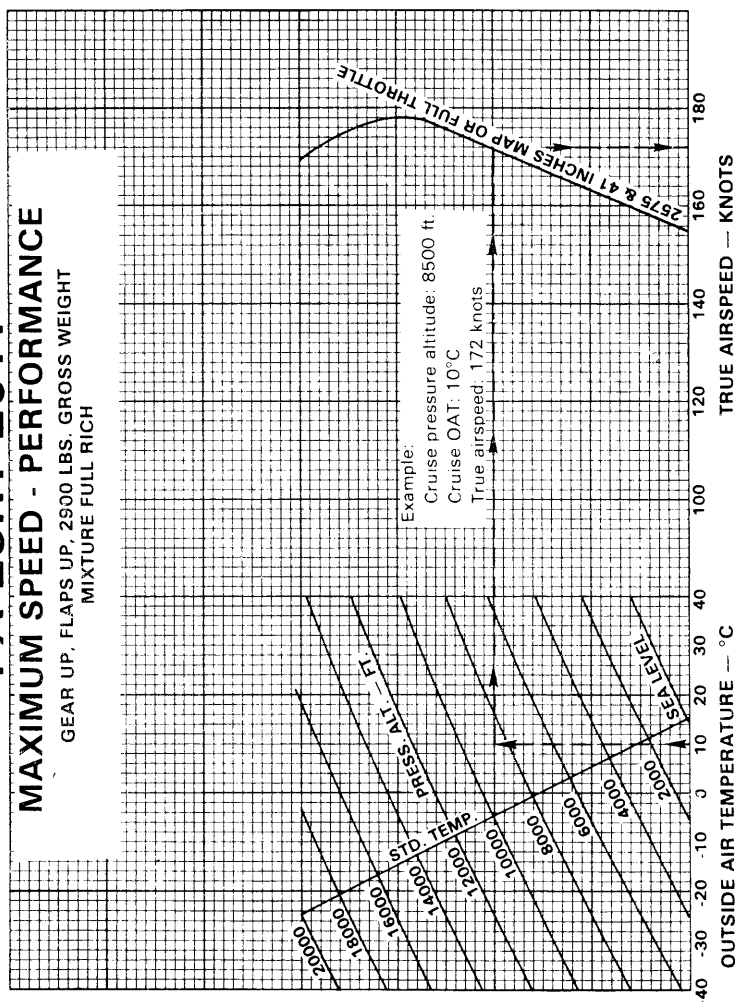
POWER SETTING TABLE

Figure 5-19

PA-28RT-201T

MAXIMUM SPEED - PERFORMANCE

GEAR UP, FLAPS UP, 2900 LBS. GROSS WEIGHT
 MIXTURE FULL RICH



Example:
 Cruise pressure altitude: 8500 ft.
 Cruise OAT: 10°C
 True airspeed: 172 knots

MAXIMUM SPEED - PERFORMANCE

Figure 5-21

PA-28RT-201T

SPEED — CRUISE POWER

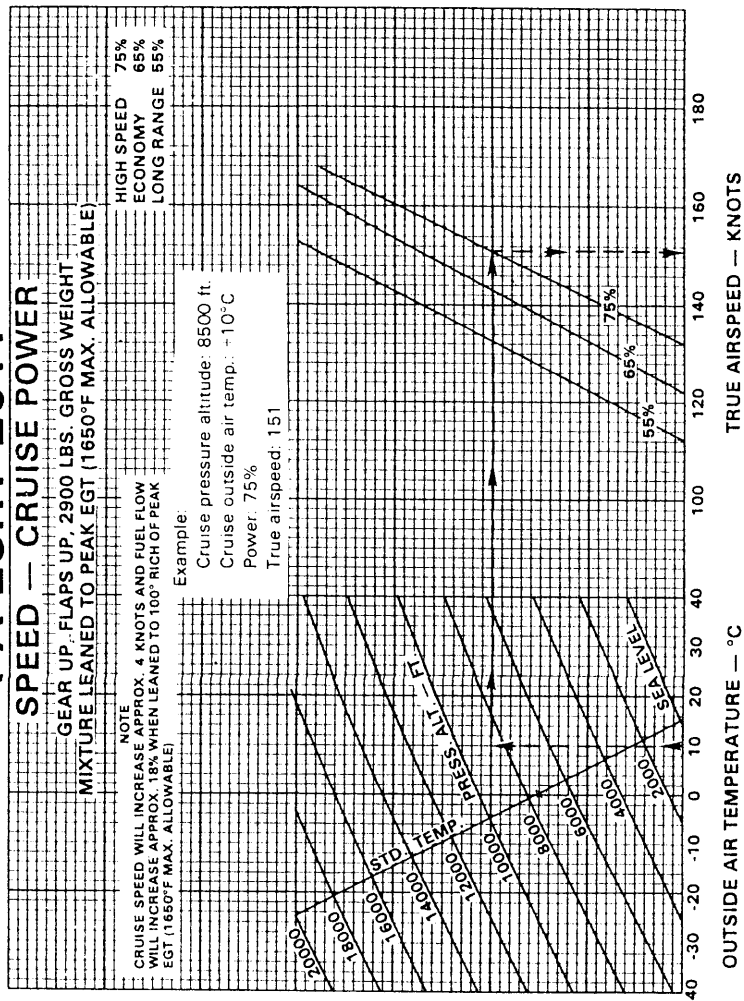
GEAR UP, FLAPS UP, 2900 LBS. GROSS WEIGHT
MIXTURE LEANED TO PEAK EGT (1650°F MAX. ALLOWABLE)

HIGH SPEED 75%
ECONOMY 65%
LONG RANGE 55%

NOTE
CRUISE SPEED WILL INCREASE APPROX. 4 KNOTS AND FUEL FLOW
WILL INCREASE APPROX. 18% WHEN LEANED TO 100° RICH OF PEAK
EGT (1650°F MAX. ALLOWABLE)

Example:

Cruise pressure altitude: 8500 ft.
Cruise outside air temp.: +10°C
Power: 75%
True airspeed: 151

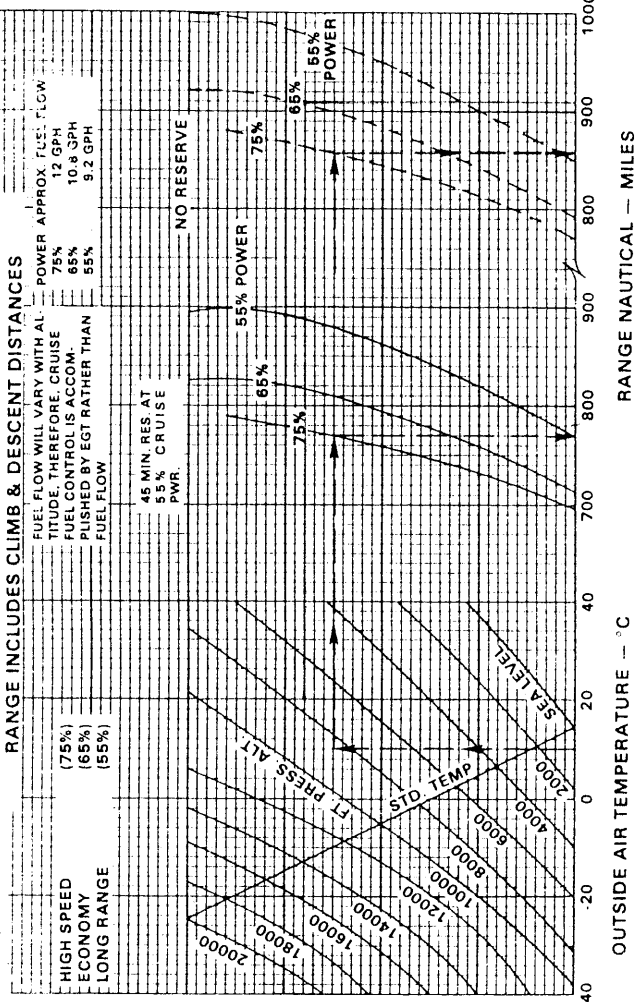


SPEED - CRUISE POWER
Figure 5-23

PA-28RT-201T RANGE — CRUISE POWER

Example
Cruise pressure altitude: 8500 ft.
Cruise outside air temp.: +10°C
Power: 75%
Range with reserve: 770 NM
Range no. reserve: 858 NM

MIXTURE LEANED TO PEAK EGT
GEAR UP, FLAPS UP, 2900 LBS. GROSS WEIGHT, ZERO WIND
72 GAL. USABLE FUEL
RANGE INCLUDES CLIMB & DESCENT DISTANCES



RANGE - CRUISE POWER
Figure 5-27

PA-28RT-201T

ENDURANCE

GEAR UP, FLAPS UP, 72 GAL. USEABLE FUEL, 2900 LBS. GROSS WEIGHT
 ENDURANCE INCLUDES TIME TO CLIMB & DESCEND
 CRUISE POWER MIXTURE (PEAK EGT - 1650°F MAX. ALLOWABLE)

Example:

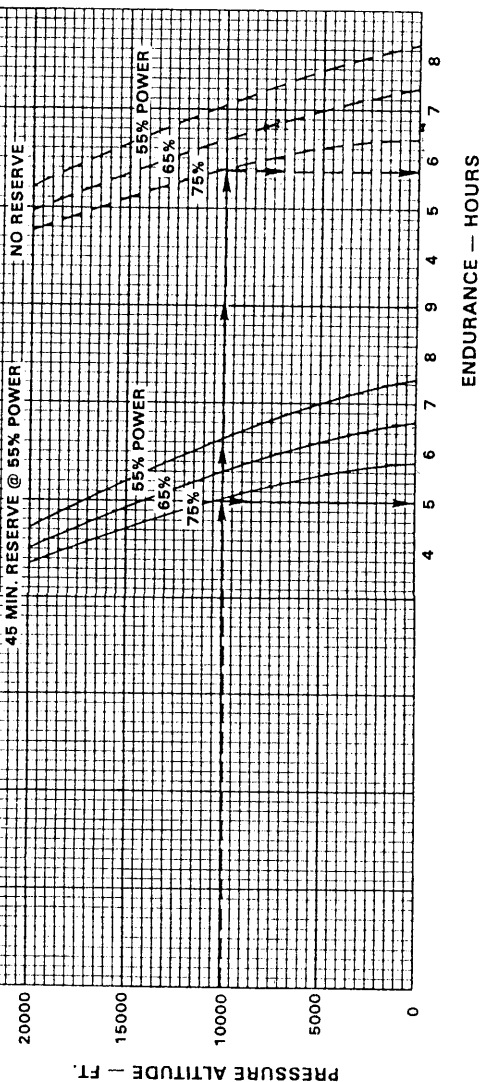
Cruise pressure altitude: 10000 ft.

Power: 75%

Endurance with reserve: 5.0 hr.

Endurance no reserve: 5.75 hr.

HIGH SPEED (75%)
 ECONOMY (65%)
 LONG RANGE (55%)



ENDURANCE
 Figure 5-29