

CONDITION	R.P.M.	M.P. (IN. HG)	BLOWER POSITION	MIXTURE POSITION	DURATION IN MIN.	U.S. G.P.H.	IMP. G.P.H.
TAKE-OFF	3000	45.5	-	A R	5	140	117
MILITARY POWER	3000	44.6	-	A R	5	132	110
ENGINE IS	Y-1710-39 (F-3R)						

**INSTRUCTIONS FOR USING CHART:** Select figure in fuel column equal to or less than total amount of fuel in airplane. Move horizontally to the right or left and select a figure equal to or greater than the air miles to be flown. Vertically below and opposite desired cruising altitude read optimum cruising conditions. **NOTES:** (A) Avoid continuous cruising in Column I except in emergency. (B) Columns (II, III, IV & V) toward the right progressively give increase in range at sacrifice in speed. (C) Manifold Pressure (M.P.), Gallons Per Hour (G.P.H.), are approximate maximum values for reference. (D) For quick reference, take-off and military power data are listed in the upper left corner of chart.

**ALTERNATE CRUISING CONDITIONS** (NO WIND) (NO RESERVE FUEL ALLOWANCE)

I (MAX. CONT. POWER)				FUEL U.S. GALS.	II		III		IV		FUEL IMP. GALS.	V (MAX. RANGE)		
RANGE IN AIR MILES					RANGE IN AIR MILES		RANGE IN AIR MILES		RANGE IN AIR MILES			RANGE IN AIR MILES		
STATUTE		NAUTICAL			STATUTE	NAUTICAL	STATUTE	NAUTICAL	STATUTE	NAUTICAL		STATUTE	NAUTICAL	
AT S.L.	AT 9,000	AT S.L.	AT 9,000	20 U.S. (23 Imp.) Gallons not available in flight.										
	325		285		425	370	565	490	630	550	123	700	610	
	300		260		350	340	520	450	560	500	100	645	560	
	270		235		355	310	470	410	525	455	92	585	510	
	245		210		320	275	425	370	475	410	75	525	455	
	215		190		285	245	360	330	420	365	67	470	405	
	130		165		250	215	330	285	370	320	58	410	355	
	185		140		210	185	265	245	315	275	50	350	305	
	135		120		175	155	235	205	265	230	42	290	255	
	110		95		140	125	190	165	210	185	33	235	205	
	80		70	105	90	140	125	150	135	25	175	150		
	55		45	70	60	95	80	105	90	17	115	100		
	25		25	35	30	45	40	50	45	8	55	50		

OPERATING DATA						DENSITY ALT. IN FEET	OPERATING DATA						DENSITY ALT. IN FEET	OPERATING DATA												
R.P.M.	I.A.S. M.P.H.	I.A.S. KNOTS	M.P. IN. HG	U.S. G.P.H.	IMP. G.P.H.		R.P.M.	I.A.S. M.P.H.	I.A.S. KNOTS	M.P. IN. HG	U.S. G.P.H.	IMP. G.P.H.		R.P.M.	I.A.S. M.P.H.	I.A.S. KNOTS	M.P. IN. HG	U.S. G.P.H.	IMP. G.P.H.							
						30000																				
						25000																				
						20000																				
2600	238	207	F.T. 98	82	15000	2450	229	193	31 85	71	2400	216	187	28 60	50	2100	203	176	27 51	42	15000	1900	185	161	26 42	35
2600	255	222	38.5 112	83	12000	2300	234	203	32 83	69	2400	216	187	28 58	48	2050	200	181	28 50	41	12000	1800	188	163	26 43	34
2600	261	227	38.5 116	87	9000	2150	238	207	34 80	67	2250	216	187	28 55	46	2000	208	180	28 48	40	9000	1800	183	159	26 38	32
2600	283	229	38.5 112	88	6000	2150	241	209	34 78	85	2250	217	188	28 53	44	1950	206	179	28 45	38	6000	1800	181	157	26 36	30
2600	266	231	38.5 109	81	3000	2150	243	211	34 75	83	2250	217	188	28 50	42	1950	204	177	28 43	36	3000	1800	177	154	26 33	28
2600	276	240	38.5 106	88	S.L.	2150	244	212	34 72	80	2250	217	188	28 48	40	1950	203	176	28 40	33	S.L.	1800	173	150	26 31	26

① INDICATED ALTITUDE CORRECTED FOR FREE AIR TEMPERATURE.  
 ② ALLOW 28 U.S. GALS., 23 IMP. GALS. FOR WARM UP.  
 TAKE-OFF AND CLIMB TO 5000 FEET ALTITUDE  
 RETURN FUEL FLOWS TO TANK  
 USE FUEL FROM TANKS IN THE FOLLOWING ORDER

**BOLD NUMBERS:** Use Auto-Rich  
**LIGHT NUMBERS:** Use Auto-Lean  
 WITH TWO SPEED BLOWER: Use high blower above heavy line only

I.A.S. - Indicated Air Speed  
 M.P. - Manifold Pressure (In. Hg)  
 U.S.G.P.H. - U.S. Gallons Per Hour  
 IMP.G.P.H. - Imperial Gallons Per Hour  
 FT. - Full Throttle  
 S.L. - Sea Level

REFER TO "SPECIFIC ENGINE FLIGHT CHART" FOR ADDITIONAL ENGINE OPERATION DATA.

RED FIGURES ARE PRELIMINARY. SUBJECT TO REVISION AFTER FLIGHT CHECK