

LOW CRUISE

R-2800-75M3

800 BHP AUTO-LEAN 61 GPH per engine
(732 lbs/hr total)

<u>Alt.</u>	<u>RPM</u>	<u>MAP</u>	<u>True Air Speed</u>		<u>Stand. Temp.</u> °C
			<u>47000 (G. R. Wt)</u>	<u>35000</u>	
2000	1700	32.9	147	156	11
3000	1700	32.5			9
4000	1700	32.0	148	158	7
5000	1700	31.6			5
6000	1700	31.2	150	161	3
7000	1700	30.8			1
8000	1700	30.5	153	164	-1
9000	1750	29.5			-3
10000	1850	28.7	154	168	-5
11000	1850	27.9			-7
12000	1900	27.1	157	172	-9

HOLDING

R-2800-75M3

600 BHP AUTO-LEAN 46 GPH per engine
(552 lbs/hr total)

<u>Alt.</u>	<u>RPM</u>	<u>MAP</u>	<u>True Air Speed</u>		<u>Stand. Temp.</u> °C
			<u>47000 (G. R. Wt)</u>	<u>35000</u>	
1000	1700	28.0			13
2000	1700	27.6	115	135	11
3000	1700	27.2			9
4000	1700	26.8	112	135	7
5000	1700	26.4			5
6000	1700	26.0	112	134	3
7000	1700	25.7			1
8000	1700	25.3	114	136	-1
9000	1700	25.0			-3
10000	1700	24.6	-	137	-5
11000	1700	24.3			-7
12000	1700	23.9	-	-	-9

HIGH POWER CRUISE
R-2800-75M3
960 BHP AUTO-LEAN 74 GPH per engine
(888 lbs/hr total)

NOTE: Do not use this power longer than needed.

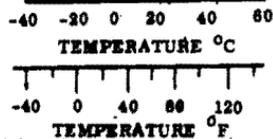
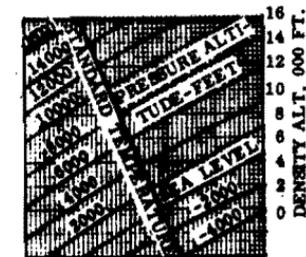
Density Alt.	RPM	MAP	True Air Speed		Stand. Temp. °C
			47000 (G. R. Wt)	35000	
1000	2000	33.3			13
2000	2000	32.9	162	170	11
3000	2000	32.5			9
4000	2000	32.2	166	173	7
5000	2000	31.9			5
6000	2000	31.6	167	176	3
7000	2000	31.3			1
8000	2000	31.0	169	177	-1
9000	2000	30.7			-3
10000	2000	30.3	170	180	-5
11000	2000	30.0			-7
12000	2000	28.7	172	184	-9
13000	2000	28.4			-11

**NOTE: INCREASE MAP .5" Hg. for each 10° CAT
 Above standard.
 DECREASE MAP .5" Hg. for each 10° CAT
 below standard.**

MODEL: C46D
 DATE: 15 July 1963
 DATA BASIS ESTIMATED

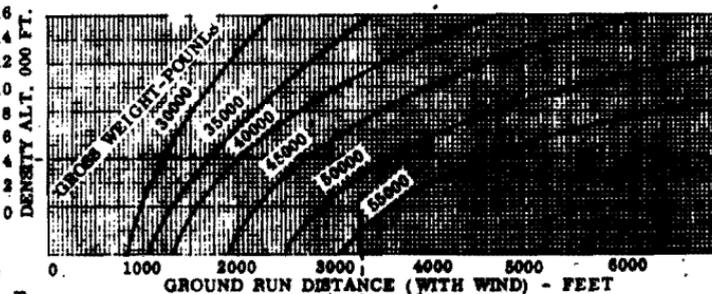
TAKE-OFF DISTANCE

ENGINES R2800-75
 FUEL GRADE: 100/130
 FUEL DENSITY: 6.0 LB/GAL.



CONDITIONS:

1. Maximum power
2. Flap Up
3. Hard, Dry Surface runway

TOTAL INSTANCE TO CLEAR 50'
THOUSANDS OF FEET

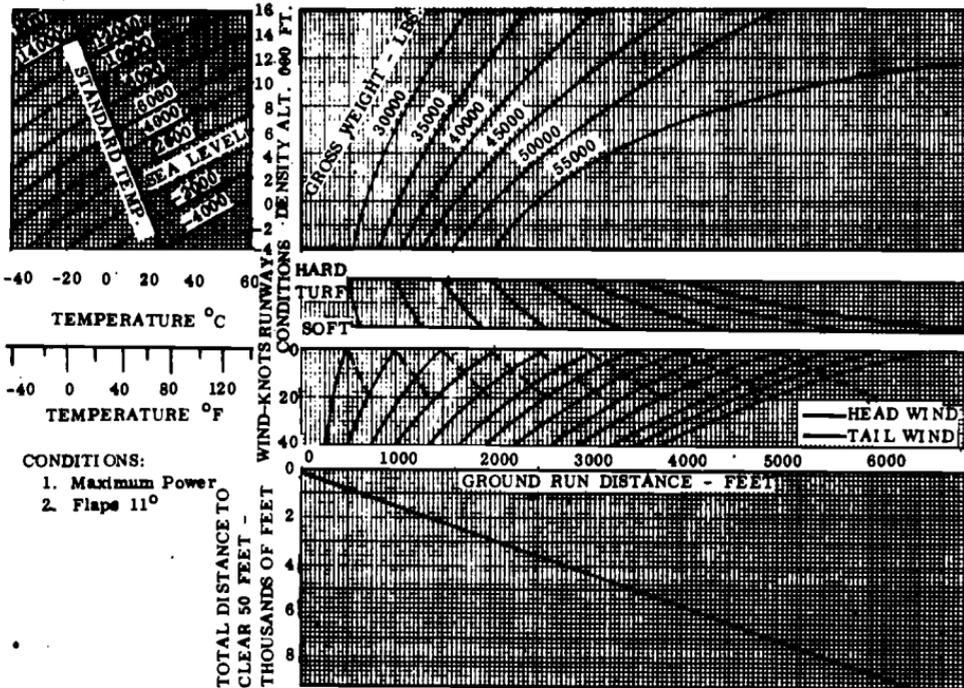
Take-Off Distance

MAXIMUM PERFORMANCE TAKE-OFF DISTANCE

MODEL: C46D
 DATE: 15 July
 DATA BASIS FLIGHT TEST

ENGINES: R2800-75
 FUEL GRADE: 100/130
 FUEL DENSITY: 6.0 LB/GAL

Maximum Performance Take-Off Distance

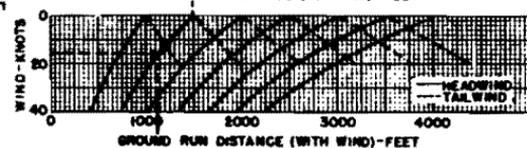
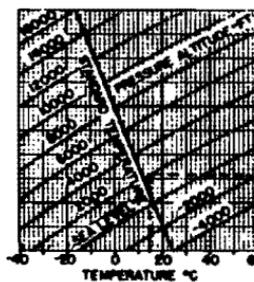


LANDING DISTANCE

MODEL: C40
 DATE: 15 JULY 1963
 DATA BASE: ESTIMATED

Density
 Altitude

ENGINES: R2800-75
 FUEL GRADE: 100/130
 FUEL DENSITY: 6.0 LB/GAL.



GROSS WEIGHT	IAS IN KNOTS		
	VS	VTD	VSO
30000	59	65	71
35000	63	70	77
40000	66	73	80
45000	72	79	86
50000	76	84	91
55000	80	88	95

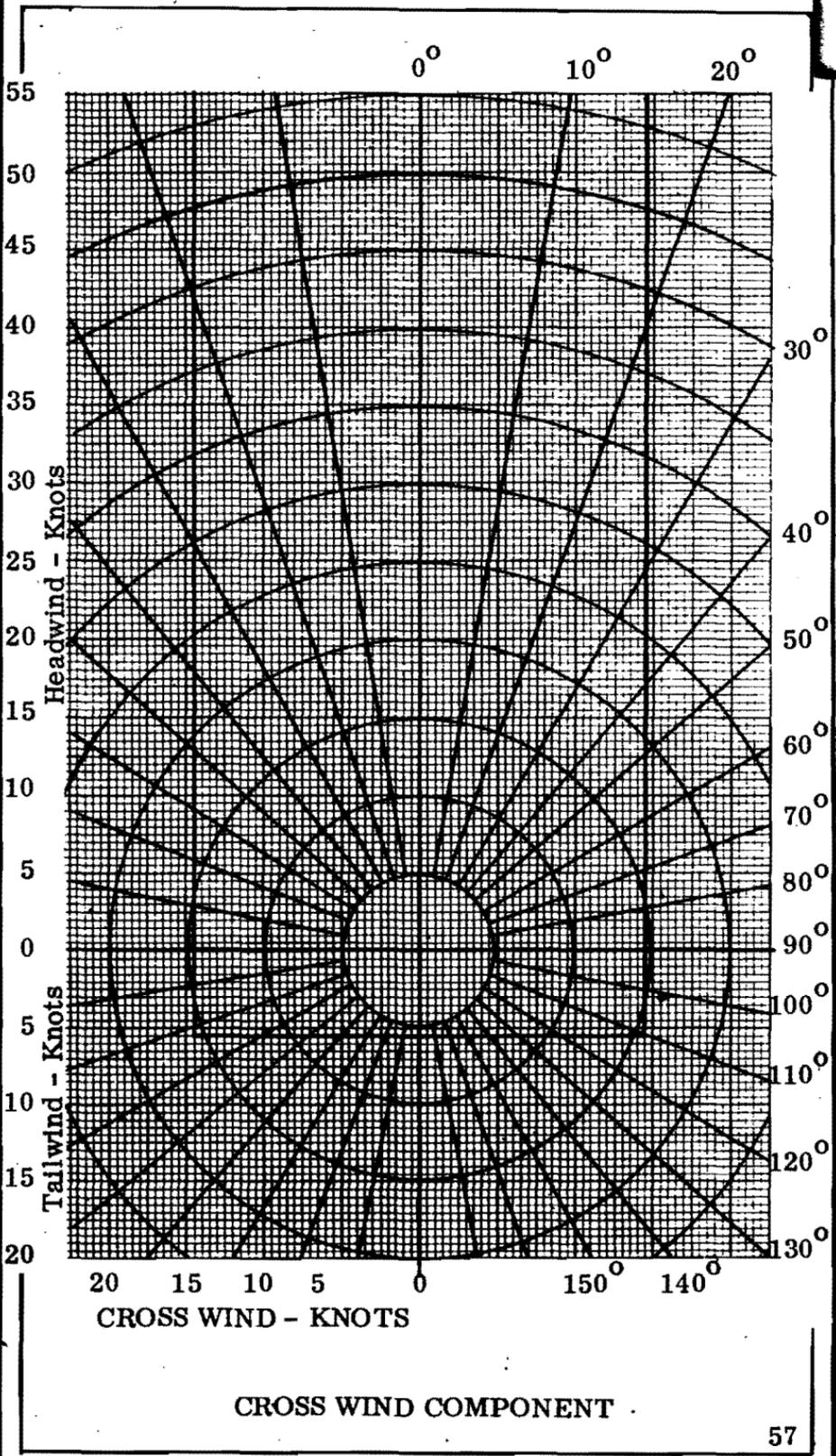
VS-POWER OFF STALL SPEED
 VTD-11VS
 VSO-12VS

CONDITIONS:

1. FLAP 35°
2. DRY HARD SURFACE RUNWAY

TOTAL DISTANCE TO CLEAR 50 FEET
 THOUSANDS OF FEET





CROSS WIND COMPONENT

<u>ITEM</u>	<u>EQUIPMENT</u>	1. <u>EQUIPMENT INSTALLED</u>
	<u>CHAPTER 21 - AIR CONDI- TIONING</u>	2. <u>MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:</u>
1	Cockpit heater	1 Not required when inflight ambient temperature is +10° C or above.
2	Cabin heater	2 Same as cockpit heater above.
		1. Required inflight ambient temperature is below + 10° C and passengers are being carried.
3	Cockpit heater temperature gauge	1 May be inoperative if heater is not to be used.
4	Cabin heater temperature gauge	2 Same as cockpit heater temperature gauge above.
	<u>CHAPTER 23 - COMMUNICATION EQUIPMENT</u>	
1	HF transmitter/receiver	2 1. One HF may be inoperative if both VHF are

ITEMEQUIPMENT1. EQUIPMENT INSTALLED2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:

1 HF transmitter/receiver (cont'd)

operative.

2 VHF transmitter/receiver

2 1. One VHF may be inoperative if both HF are operative.

3 Interphone jack box

3 2. One may be inoperative.

CHAPTER 24 - ELECTRICAL POWER

1 Inverter

2 1. One may be inoperative for day VFR operations.

2 AC voltmeter

1 1.

3 Generator

2 1. One may be inoperative if it is removed and pad installed.

<u>ITEM</u>	<u>EQUIPMENT</u>	1. EQUIPMENT INSTALLED	
3	Generator (Cont'd)		
4	Battery	2	1. One-time ferry flight day VFR only.
5	Ammeter	2	2.
CHAPTER 25 - <u>EQUIPMENT FURNISHINGS</u>			
1	Safety belts		One for each person aboard.
2	First aid kit		
	Cargo, one	1	1.
	Passenger, two	2	1. One kit.
			NOTE Monitor electrical load as necessary to prevent overloading the remaining operative generator.
			2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:

<u>ITEM</u>	<u>EQUIPMENT</u>	1. <u>EQUIPMENT INSTALLED</u>	2. <u>MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:</u>
3	Crew smoke mask	3	3. (May not be available)
4	Fire Axe	1	1.
<u>CHAPTER 26 - FIRE PROTECTION</u>			
1	Fire detection system including light & bell.		
	Engine	2	2.
	Heater	1	May be inoperative if heaters are not to be used.
2	Engine fire extinguisher system	2	2.
3	Heater fire extinguisher system	1	May be inoperative if heaters are not to be used.

<u>ITEM</u>	<u>EQUIPMENT</u>	1.	<u>EQUIPMENT INSTALLED</u>
4	Portable fire extinguisher	2	2.
	CHAPTER 27 - <u>FLIGHT CONTROLS</u>		
1	Flap position indicator	1	May be inoperative if flaps are visually checked.
	CHAPTER 28 - <u>FUEL SYSTEM</u>		
1	Booster pump	6	Must be operative on all tanks planned for use.
2	Engine driven fuel pump	2	2.
3	Cross-feed system	1	1.
4	Firewall shutoff valve	2	2.

ITEM

EQUIPMENT

1. EQUIPMENT INSTALLED

2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:

5 Fuel quantity gauges

6 4. May be dispatched with minimum of four tank gauges operative provided two center tank gauges are operative, and other fuel is measured by dipstick prior to departure.

6 Fuel pressure warning system

2 2. Fuel pressure warning light system may be inoperative provided respective fuel pressure gauge(s) is (are) operative.

7 Fuel Tanks

6 4.

CHAPTER 29 - HYDRAULIC POWER

1 Main accumulator

1 1.

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<u>ITEM</u>	<u>EQUIPMENT</u>	1. <u>EQUIPMENT INSTALLED</u>	
			2. <u>MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:</u>
2	Pumps		
	Engine driven pump	2	2.
	Head pump	1	1.
3	Hydraulic system pressure gauge	1	1.
4	Engine pressure gauge	2	2.
5	Brake system gauge	1	1.
	Brake accumulator	1	1.
6	Sight gauge	1	1.

ITEMEQUIPMENT1. EQUIPMENT INSTALLED2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:CHAPTER 30 - ICE AND RAIN PROTECTION

1	Surface de-icing system	1	Required in geographical icing sector.
2	Carburetor alcohol anti-icing system	1	Required in geographical icing sector.
3	Carburetor heat controls	2	2.
4	Pilot tube heater	2	2. One may be inoperative in VFR. Required on operative airspeed indicator.
5	Windshield wiper	2	2. Required for flight in precipitation in terminal areas.
6	Windshield anti-icing system	1	May be inoperative if icing conditions will not exist along the route.

<u>ITEM</u>	<u>EQUIPMENT</u>		<u>1. EQUIPMENT INSTALLED</u>
<u>CHAPTER 31 - INSTRUMENTS</u>			<u>2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:</u>
1	Clock with sweep second hand	1	1. May be inoperative provided the crew has a sweep second hand watch VFR operations.
2	Free air temperature gauge	1	Required in geographical icing sector.
<u>CHAPTER 32 - LANDING GEAR</u>			
1	Landing gear warning system	1	1.
<u>CHAPTER 33 - LIGHTS</u>			
1	Instrument lights		Red and white lighting must be provided to clearly illuminate all instruments and controls.
2	Position light system	1	1. May be inoperative for day operations.

ITEMEQUIPMENT1. EQUIPMENT INSTALLED2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:

3	Landing lights	1	May be inoperative for day operations.
4	Anti-Collision light	1	May be inoperative to next station where repairs may be made if all three position lights are operative in "flash" position.
5	Flasher unit	1	May be inoperative if Anti-Collision light is operative.
6	Passenger warning lights	1	Lights may be inoperative provided the public address system and stewardess call bell are working in passenger operations.
<u>CHAPTER 34 - NAVIGATION</u>			
1	Altimeter	2	2. Co-pilot's may be inoperative if day V FR flight.

ITEM	EQUIPMENT	1. EQUIPMENT INSTALLED	2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS
2	Rate-of-climb indicator	2	1. Captain's must be operative.
3	Airspeed indicator	2	2. Co-pilot's may be inoperative if day VFR flight.
4	Artificial horizon indicator	2	1. One may be inoperative for day VFR operation.
5	Directional Gyro	2	1. One may be inoperative for day VFR operation.
6	Magnetic compass with correction card.	1	1.
7	Turn-and-bank indicator	2	1. Captain's must be operative.
8	ADF receivers	2	1. If one VOR system is operative, or day VFR.

<u>ITEM</u>	<u>EQUIPMENT</u>	1. <u>EQUIPMENT INSTALLED</u>	
			2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:
	CHAPTER 35 - <u>OXYGEN</u>		
1	Flight crew oxygen	1	1. (Not installed SEA fleet)
2	Flight crew oxygen masks	2	2. (Not installed SEA fleet)
	CHAPTER 37 - <u>VACUUM</u>		
1	Vacuum pump	2	1. One may be inoperative day VFR.
2	Vacuum gage	2	1.
	CHAPTER 61 - <u>PROPELLER</u>		
1	Propeller governor and control	2	2.
69 2	Propeller feathering pump and motor	2	2.

<u>ITEM</u>	<u>EQUIPMENT</u>		<u>1. EQUIPMENT INSTALLED</u>
<u>CHAPTER 71 - POWERPLANT</u>			
1	Cowl flaps (or residual heat doors)	2	2.
<u>CHAPTER 73 - ENGINE FUEL AND CONTROL</u>			
1	Fuel pressure indicator	2	2.
<u>CHAPTER 77 - ENGINE INDICATING</u>			
1	Tachometer indicating system	2	1. One may be inoperative provided the manifold pressure gauge is operating on affected engine.
2	Manifold pressure gauge	2	1. One may be inoperative provided the tachometer indicator is operating on affected engine.

ITEMEQUIPMENT1. EQUIPMENT INSTALLED2. MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:

3 Cylinder head temperature indicator

2 1. One may be inoperative provided the oil temperature indicator is operating on affected engine.

4 Carburetor air temperature gauge

2 1. One may be inoperative. Use operative instruments for reference in carburetor icing conditions.

CHAPTER 79 - OIL

1 Oil quantity gauge

2 1. One may be inoperative provided oil temperature and pressure indicators are operative. Quantity must be checked prior to departure.

2 Oil temperature gauge

2 1. One may be inoperative provided oil pressure and cylinder head temperature indicators are operative on affected engine.

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<u>ITEM</u>	<u>EQUIPMENT</u>	1. <u>EQUIPMENT INSTALLED</u>	2. <u>MINIMUM EQUIPMENT REQUIRED FOR ALL FLIGHT CONDITIONS:</u>
3	Oil Pressure gauge	2	2.
4	Oil Pressure warning system (lights)	2	2. May be inoperative provided oil pressure and oil temperature are operative.
5	Oil temperature controls	2	2.
CHAPTER 80 - <u>STARTING</u>			
1	Starters	2	2.