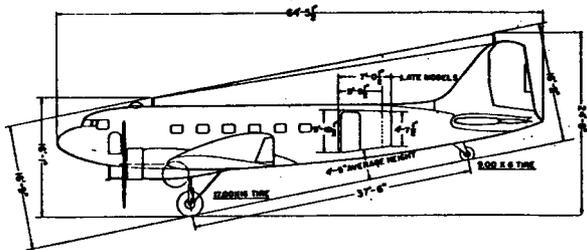
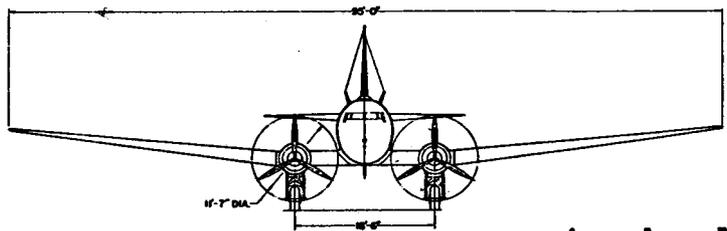
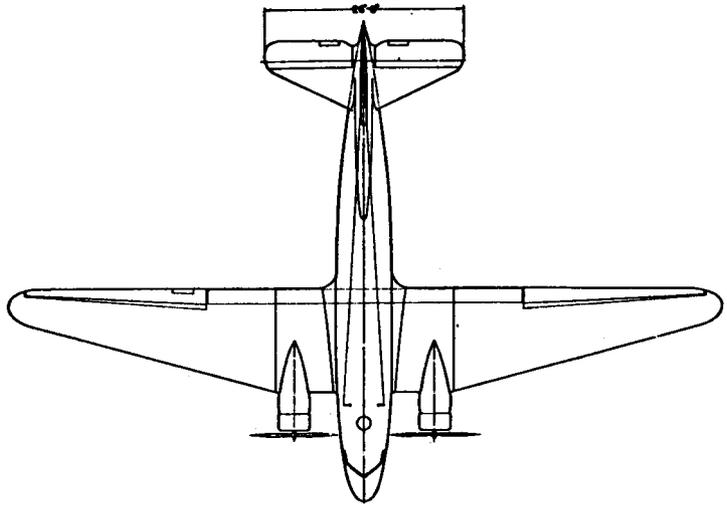


STANDARD AIRCRAFT CHARACTERISTICS

C-47J SKYTRAIN

1



DESCRIPTIVE ARRANGEMENT

2

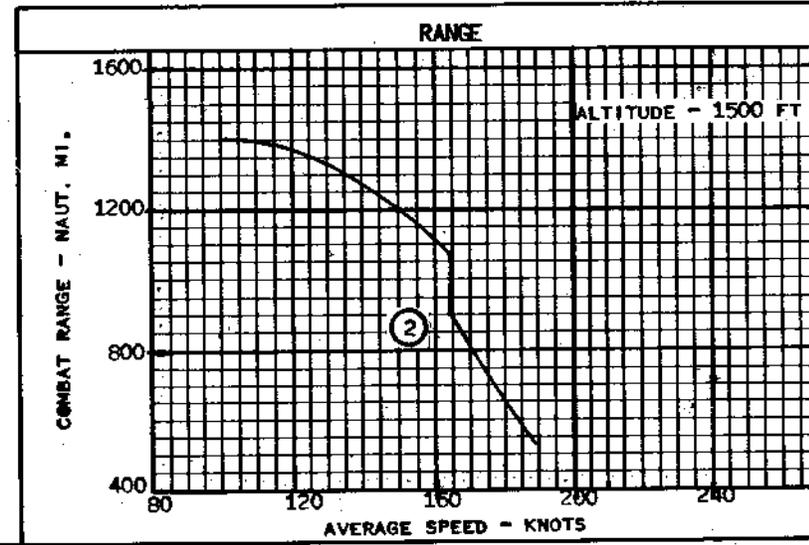
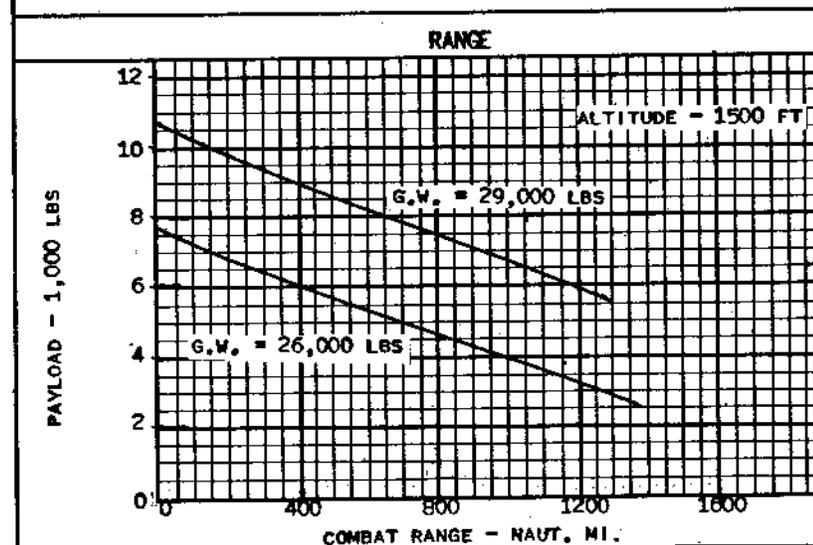
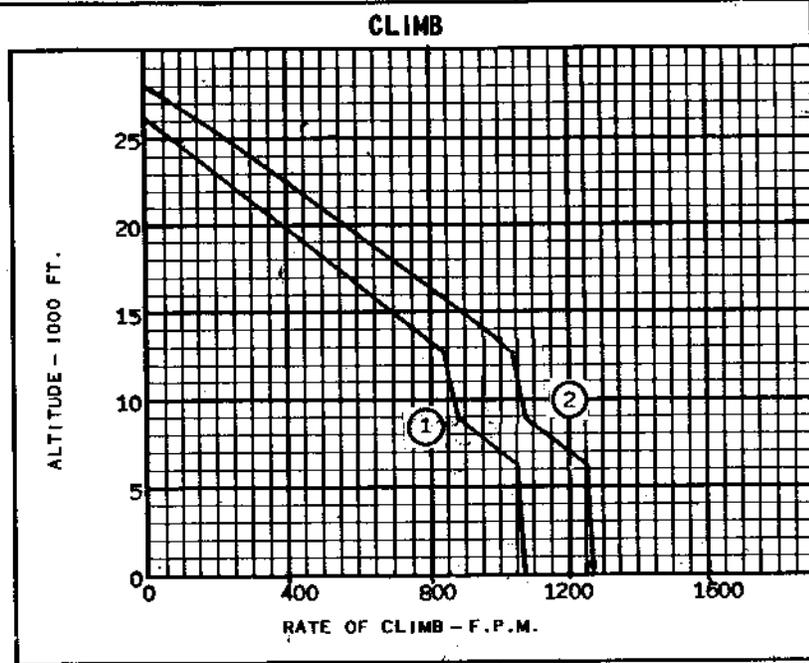
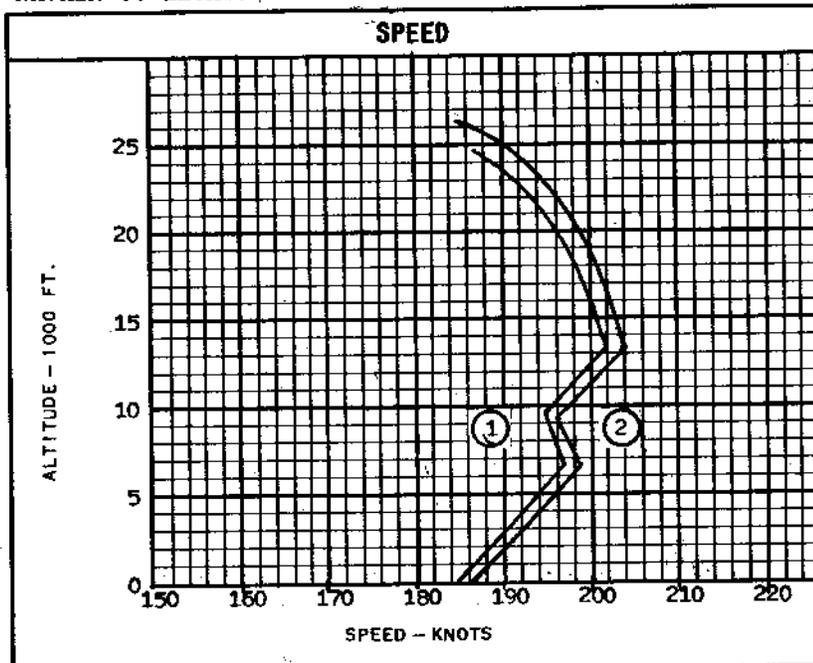
POWER PLANT	MISSION AND DESCRIPTION	WEIGHTS																																		
<p>No. & Model(2)R-1830-90C Supercharged ...1 Stage, 2 Speed MRF P&W Prop. Gear Ratio 16:9 Prop. Mfr Ham. Stand. Prop Design No 6477A-0 No. Bl./Dia 3/11" - 7"</p> <p style="text-align: center;">RATINGS</p> <table border="0"> <thead> <tr> <th></th> <th><u>BHP</u></th> <th>@ <u>RPM</u></th> <th>@ <u>ALT</u></th> </tr> </thead> <tbody> <tr> <td>T.O.</td> <td>1200</td> <td>2700</td> <td>SL</td> </tr> <tr> <td>Normal</td> <td>1100</td> <td>2550</td> <td>SL-6100'</td> </tr> <tr> <td></td> <td>1000</td> <td>2550</td> <td>12,500'</td> </tr> </tbody> </table> <p style="text-align: center;">Spec. A-5144-A</p>		<u>BHP</u>	@ <u>RPM</u>	@ <u>ALT</u>	T.O.	1200	2700	SL	Normal	1100	2550	SL-6100'		1000	2550	12,500'	<p>The Douglas Skytrain C-47J (R4D-6) is a troop-cargo transport similar to the C-47H. A later version of the C-47H, it is distinguished from it mainly by its engines, being 1830-90C's.</p> <p>The C-47J carries a crew of 4. It can carry 26 troops or 24 litters.</p>	<table border="0"> <thead> <tr> <th><u>LOADINGS</u></th> <th><u>LBS</u></th> <th><u>L.F.</u></th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>17,257</td> <td></td> </tr> <tr> <td>Basic</td> <td>17,500</td> <td></td> </tr> <tr> <td>Design</td> <td>29,600</td> <td>2.67</td> </tr> <tr> <td>Max.T.O.</td> <td>30,600</td> <td>2.50</td> </tr> <tr> <td>Max.Ld.....</td> <td>26,000</td> <td>3.00</td> </tr> </tbody> </table> <p>All Weights are actual</p>	<u>LOADINGS</u>	<u>LBS</u>	<u>L.F.</u>	Empty	17,257		Basic	17,500		Design	29,600	2.67	Max.T.O.	30,600	2.50	Max.Ld.....	26,000	3.00
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PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION		(1) CARGO-TROOP TRANSPORT	(2) CARGO-TROOP TRANSPORT			
TAKE-OFF WEIGHT	LB.	29,000	26,000			
FUEL INTERNAL/EXTERNAL ()	LB./LB.	4,824	4,824			
PAYLOAD	LB.	5,538	2,538			
WING LOADING	LB./SQ.LB.	29.4	26.3			
STALL SPEED - POWER-OFF	KN.	69.1	65.4			
TAKE-OFF RUN AT S.L. - CALM	FT.	1241	935			
TAKE-OFF RUN AT S.L. - KN. WIND	FT.					
TAKE-OFF TO CLEAR 50 FT. - CALM	FT.	2380	1900			
MAX. SPEED/ALTITUDE (B)	KN./FT.	202/13000	204/13000			
RATE OF CLIMB AT S.L. (B)	FPM.	1060	1260			
TIME: S.L. TO 10,000 FT. (B)	MIN.	19.1	8.4			
TIME: S.L. TO 20,000 FT. (B)	MIN.	25.7	20.5			
SERVICE CEILING (100 FPM.) (B)	FT.	24,700	26,600			
COMBAT RANGE	N.MI.	1295	1405			
AVERAGE CRUISING SPEED	KN.	111	107			
CRUISING ALTITUDE(S)	FT.	1500	1500			
COMBAT RADIUS/MISSION TIME	N.MI./HR.					
AVERAGE CRUISING SPEED	KN.					
POWER LOADING (A)	LBS/BHP	13.2	11.8			
COMBAT LOADING CONDITION						
COMBAT WEIGHT	LB.	26,106	23,106			
ENGINE POWER	(B)	(B)	(B)			
FUEL	LB.	2894	2894			
COMBAT SPEED/COMBAT ALTITUDE (B)	KN./FT.	204/13000	206/13000			
RATE OF CLIMB/COMBAT ALTITUDE (B)	FPM./FT.	1004/13000	1204/13000			
COMBAT CEILING (500 FPM.) (B)	FT.	20,430	22,915			
RATE OF CLIMB AT S.L. (B)	FPM.	1253	1451			
MAX. SPEED AT S.L. (B)	KN.	186	187			
MAX. SPEED/ALTITUDE (B)	KN./FT.	204/13000	206/13000			
LANDING WEIGHT	LB.	26,000				
FUEL	LB.	1824				
STALL SPEED - POWER-OFF/APPR. POWER	KN./KN.	57.3/				
DIST. - GRO ROLL/OVER 50 FT. OBS.	FT./FT.	1133/2096				

NOTES: (A) BHP at Maximum Critical Altitude
 (B) Normal Rated Power

Performance is based on flight test data as of 11 July 1957



○ LOADING CONDITION CODE NUMBER



NOTES

Performance includes the effect of de-icer boots. Removal of de-icer boots increased V_{\max} at ACA by 3.0 knots and maximum combat range at 1500 feet by 22.

Performance with one engine inoperative, propeller feathered
(high blower inoperative) is:

Gross Weight	26,000 lbs
Rate of Climb - S. L. Max. Power.....	242 ft./min.
Service Ceiling - Max. Power	8,600 ft. (Pressure alt)

○ LOADING CONDITION COLUMN NUMBER