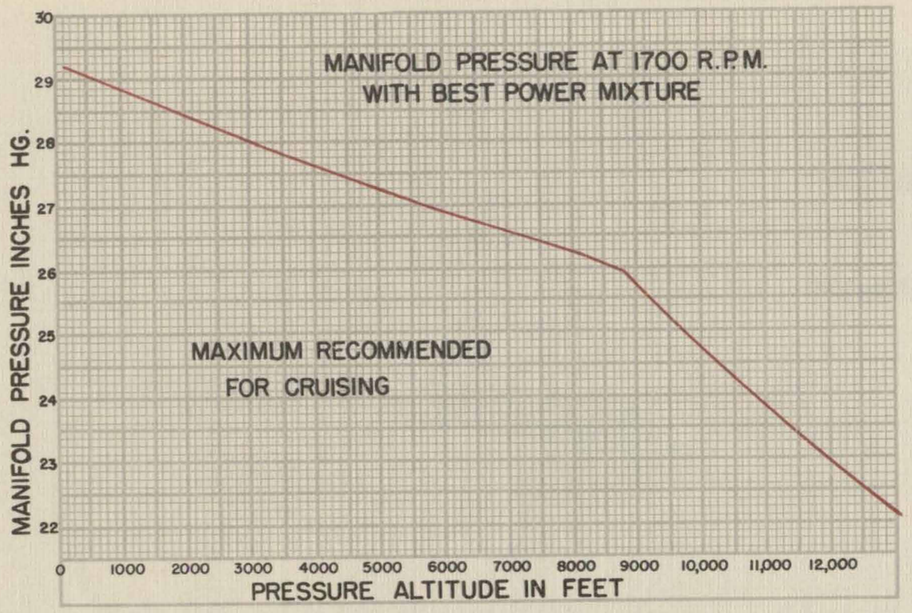
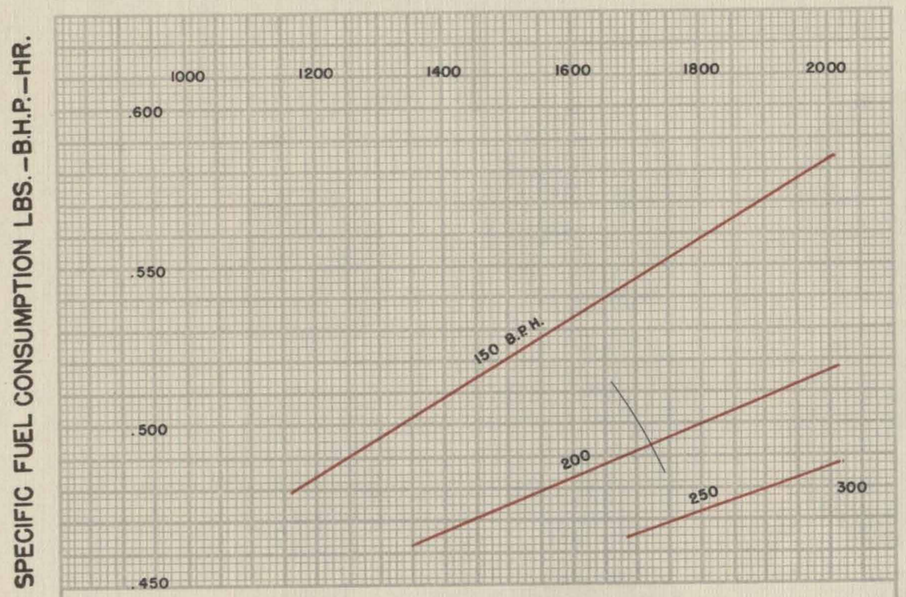


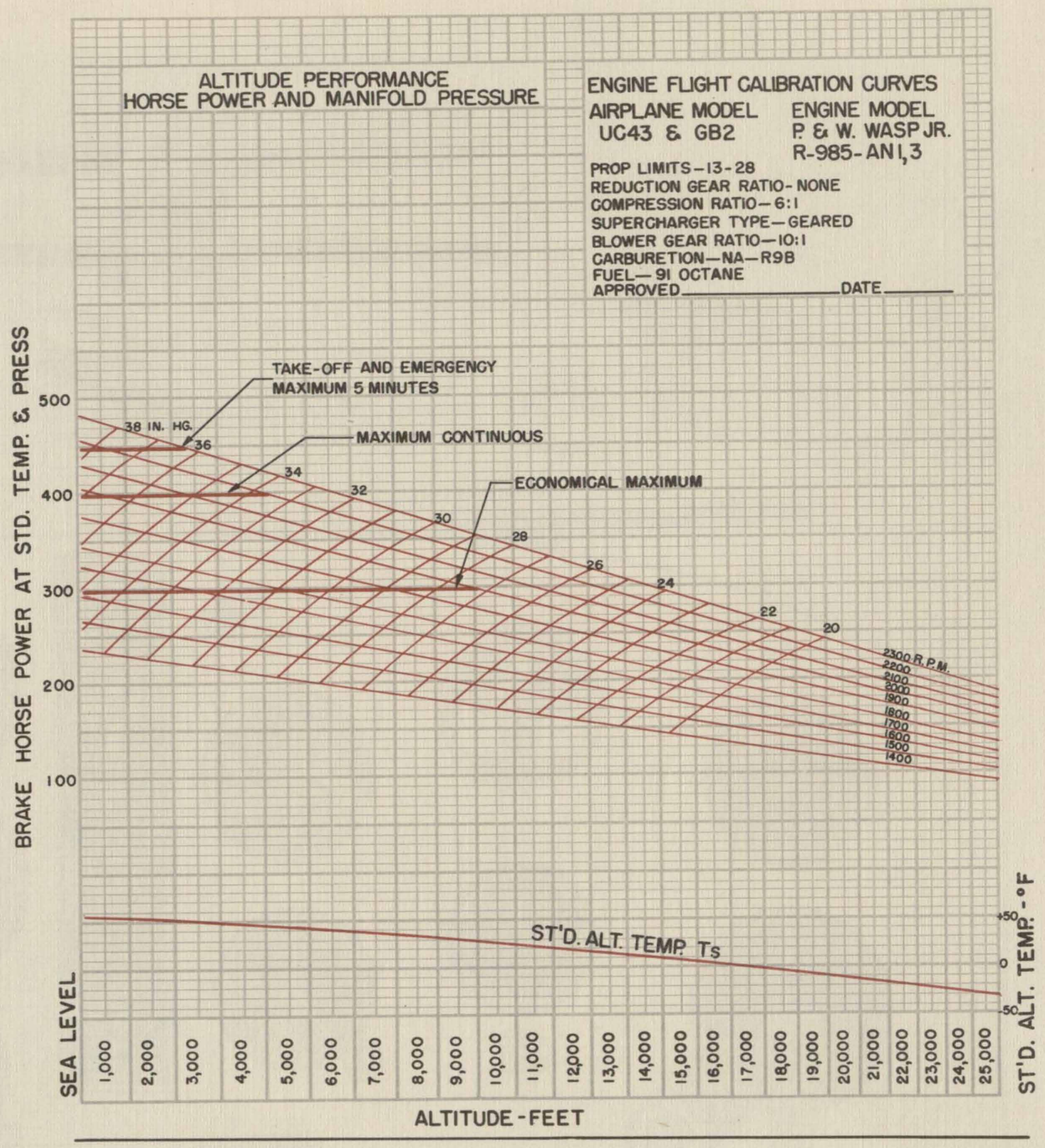


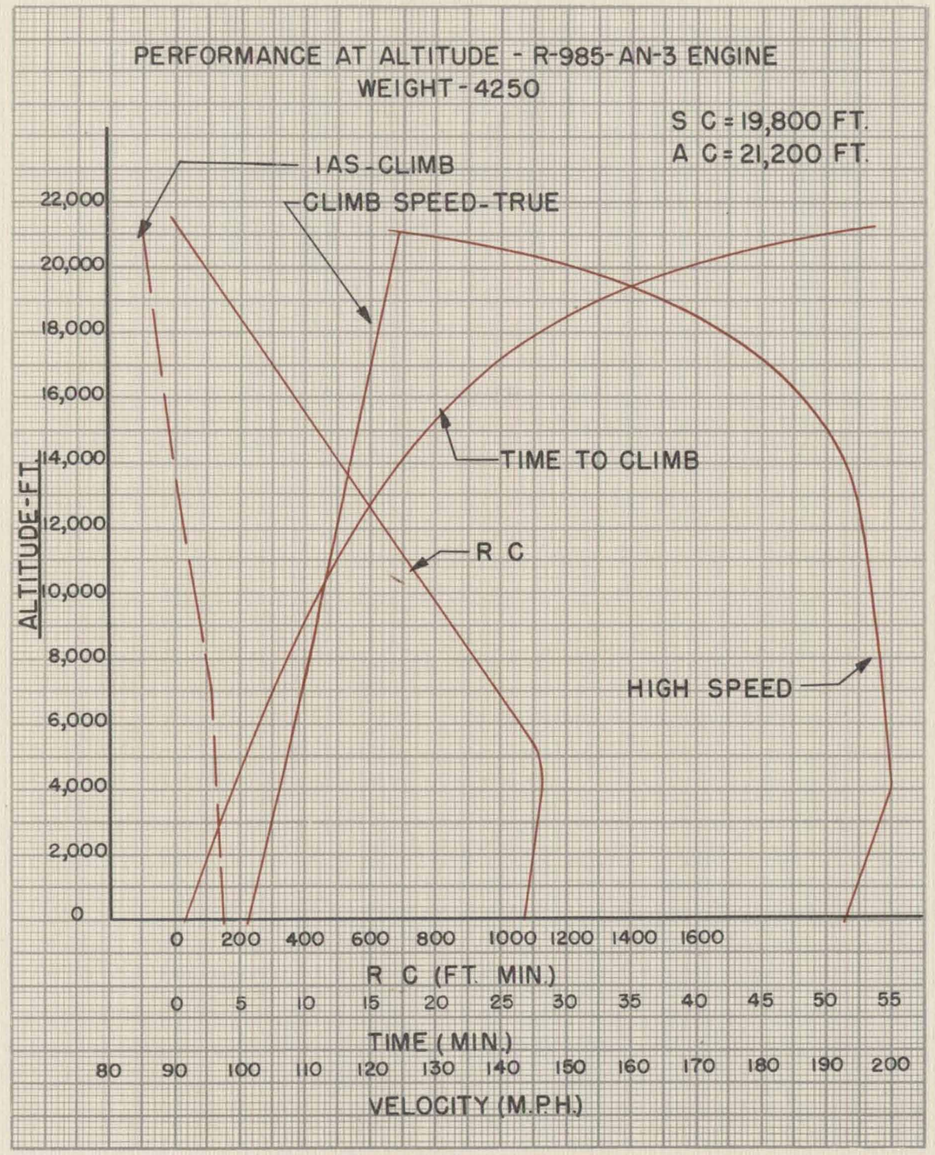
NOTE: THE SPECIFIC FUEL CONSUMPTIONS SHOWN ABOVE ARE INTENDED FOR LEVEL FLIGHT OPERATION AND ARE OBTAINABLE ONLY WITH THE USE OF THE MANUAL MIXTURE CONTROL AND WITH NOT MORE THAN 31 INCHES MERCURY ABSOLUTE ON THE EXHAUST

NOTE: APPLIES TO NAR-9C2 AND NAR-9B (SEE T-668 FOR REF.)

DATE: 9-4-40

MINIMUM CRUISING SPECIFIC FUEL CONSUMPTION ON AN R-985-AN-1,-2,-4,-6,-6B WASP JR. CURVE T-662-F
PRATT & WHITNEY AIRCRAFT





AIRPLANE MODELS
D17S
UC43 & GB2

SPECIFIC ENGINE FLIGHT CHART

ENGINE MODELS
P & W R-985-AN-1 (SINGLE SPEED BLOWER)
P & W R-985-AN-3 (SINGLE SPEED BLOWER)

CONDITION	FUEL PRESSURE LB./SQ. IN.	OIL PRESSURE LB./SQ. IN	OIL TEMP. °C	COOLANT TEMP. °C		
DESIRED	5	70-90	60-75			
MAXIMUM	6	90	85			
MINIMUM	4	50	60			
IDLING	3	10				

MAX. PERMISSIBLE DIVING R.P.M. 2860

CONDITION	ALLOWABLE OIL CONSUMPTION	
"MAX. CONTINUOUS"	8.8 IMP. PT/HR.	5.3 U.S.QT/HR.
"ECONOMICAL MAX."	4.0 IMP. PT/HR.	2.4 US QT./HR.
"MIN. SPECIFIC"	IMP. PT/HR.	U.S.QT./HR.

OIL GRADE: (S) 1120 (W) 1100

SUPERCHARGER TYPE

FUEL OCTANE 91 - (SPEC. AN-VV-F-776)

OPERATING CONDITION	R.P.M.	MANIF. PRESS. (BOOST)	HORSE POWER	CRITICAL ALTITUDE (FEET)	BLOWER	USE LOW BLOWER BELOW	MIXTURE CONTROL POSITION	FUEL FLOW (GAL. HR. ENG) U.S.	IMP.	MAXIMUM CYL. TEMP. °C	°F	MAXIMUM DURATION (MINUTES)	REMARKS
TAKE-OFF	2300	37	450	2000				49	41	260	500	5	
EMERGENCY MAXIMUM	2300	37	450	2000				49	41	260	500	5	
MAXIMUM CONTINUOUS	2200	33	4	4500				39	32	260	500		
ECONOMICAL MAXIMUM	2000	28	300	8300			.085	25	21	232	450		
RECOMMENDED SPECIFIC CONSUMPTION	1800 1700	28 26	270 240	7200 8700			.080 .080	22 21	18 17	232 232	450 450		
MINIMUM CRUISING	1700	26	240	8700			.080						
CONDITIONS TO AVOID	1. AVOID OVERSPEED DIVE OF 2860 R.P.M. FOR OVER 30 SECONDS												

NOTE: CRITICAL ALTITUDE IS THAT AT WHICH MAXIMUM POWER IS OBTAINED WITH FULL THROTTLE UNDER CONDITIONS SHOWN.