

IGNITION  
MANIFOLD

INTER-CYLINDER  
OIL PIPES

GOVERNOR  
MOUNTING PAD

PROPELLER  
OIL PIPE

COWL MOUNTING  
LUG

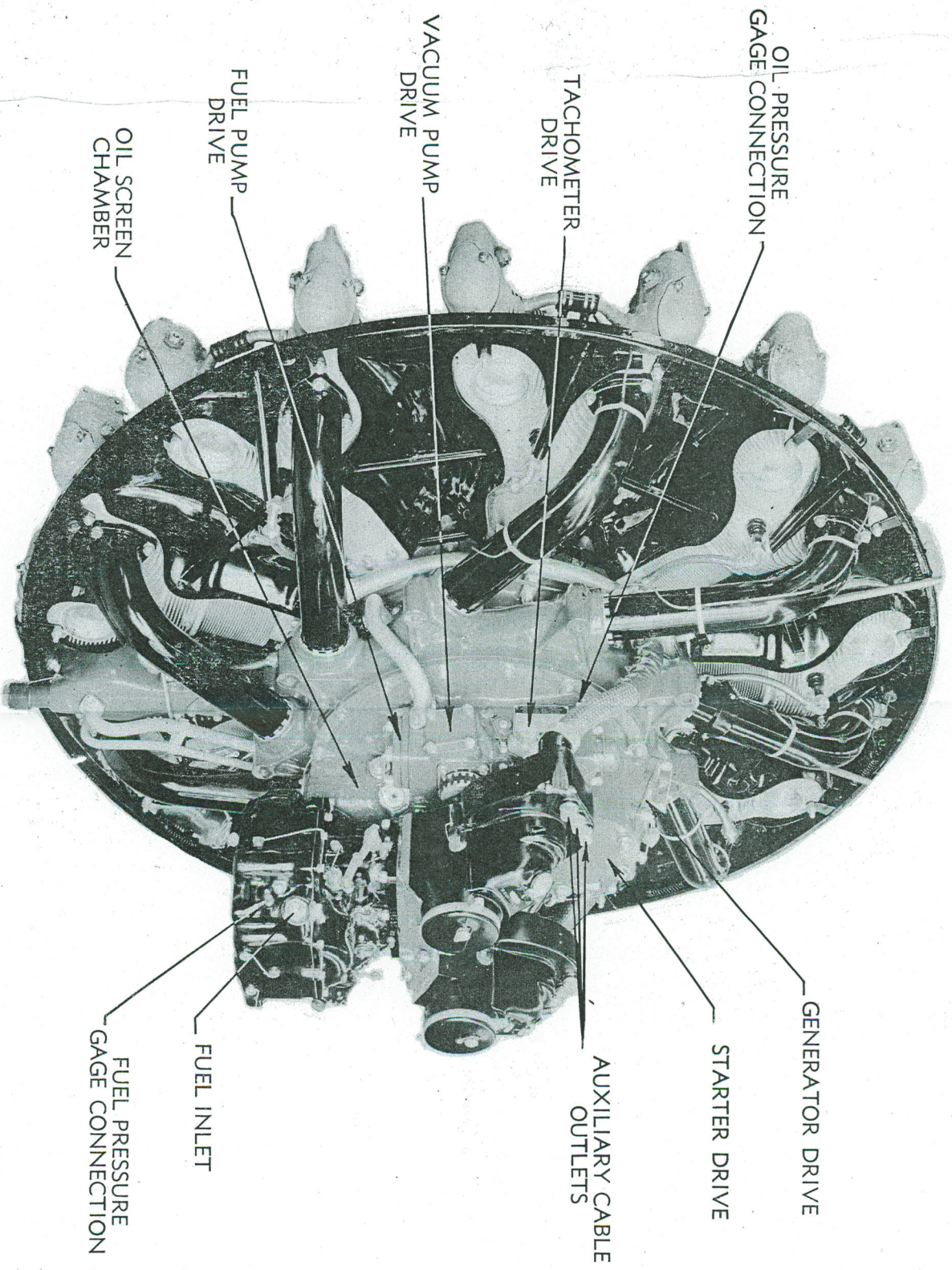
MAIN SUMP

*Fig. 1*  
*Three Quarter Front View*  
*(Wasp H1)*



2a

*Fig. 1*  
*Three Quarter Front View of Engine*  
*(Wasp H1)*



*Fig. 3*  
*Three Quarter Left Rear View*



20a

*Fig. 3*  
*Three Quarter Left Rear View of Engine*



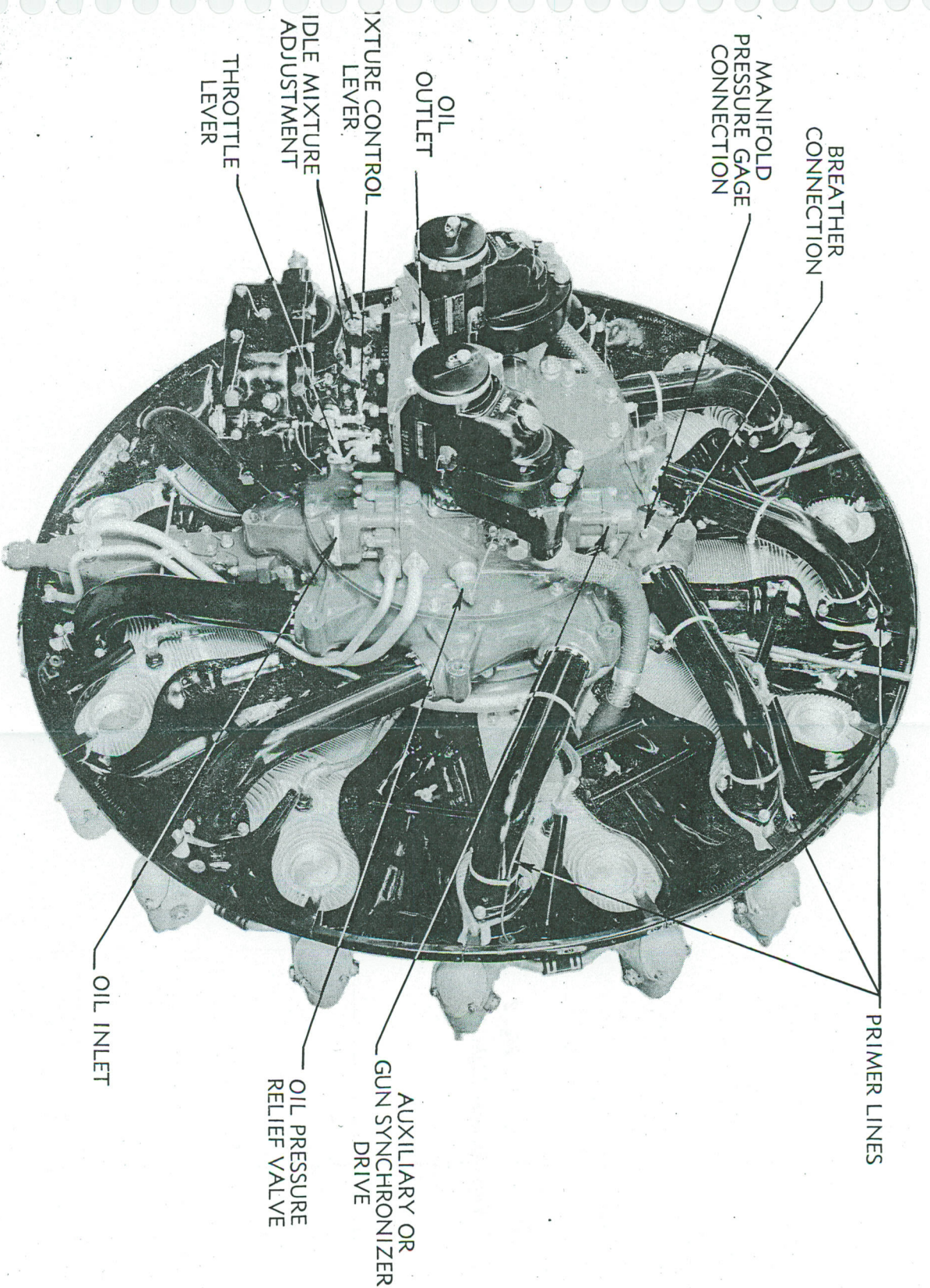


Fig. 2  
Three Quarter Right Rear View

16a

*Fig. 2*  
*Three Quarter Right Rear View of Engine*



LUBRICATION CHART—LONGITUDINAL  
VIEW—Wasp Jr. B3

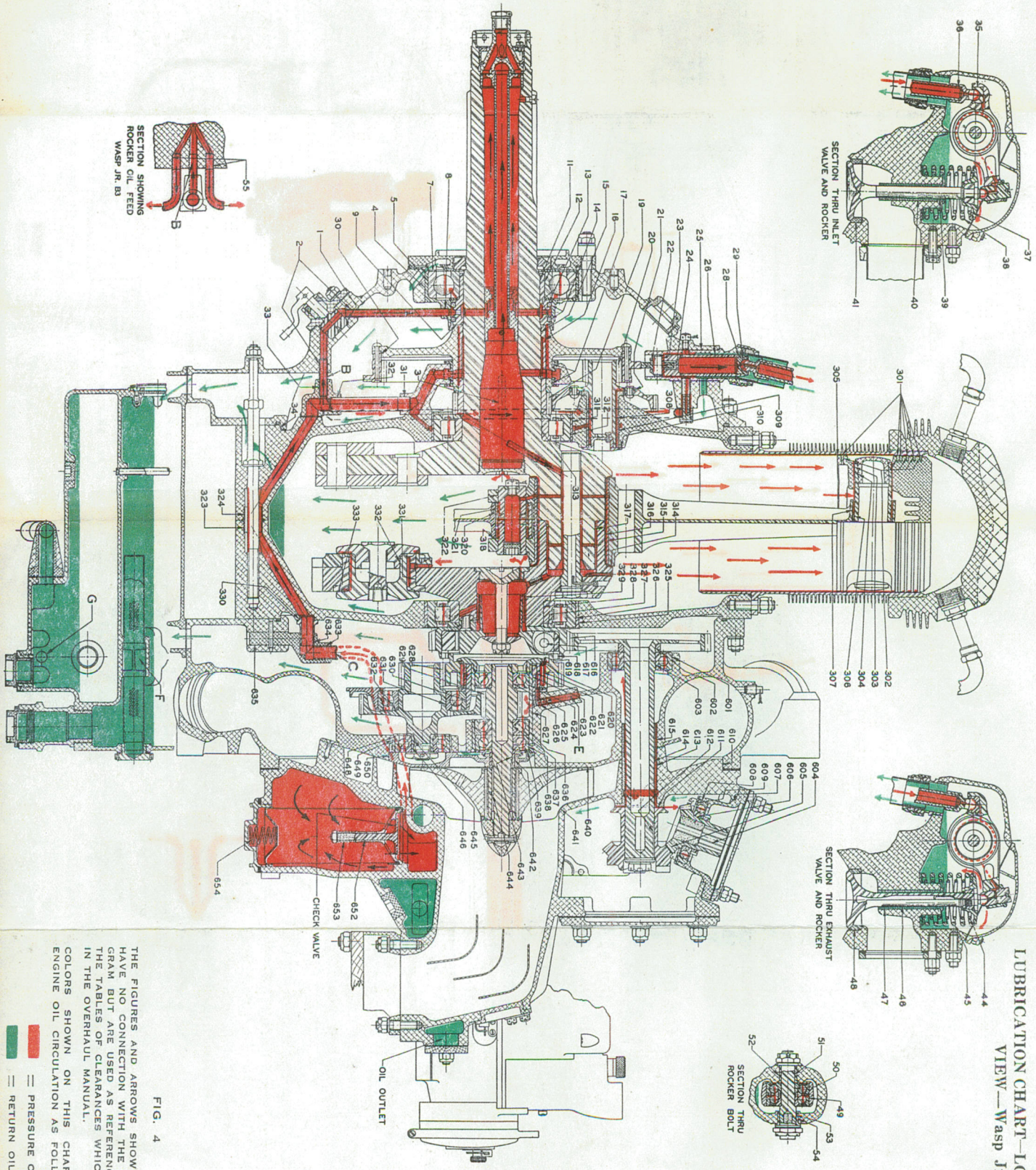


FIG. 4

THE FIGURES AND ARROWS SHOWN ON THIS CHART HAVE NO CONNECTION WITH THE LUBRICATION DIAGRAM BUT ARE USED AS REFERENCE NUMBERS WITH THE TABLES OF CLEARANCES WHICH WILL BE FOUND IN THE OVERHAUL MANUAL.

COLORS SHOWN ON THIS CHART INDICATE THE ENGINE OIL CIRCULATION AS FOLLOWS:

- █ PRESSURE OIL
- █ RETURN OIL







LUBRICATION CHART—LONGITUDINAL VIEW—Wasp HI and Hornet E Series

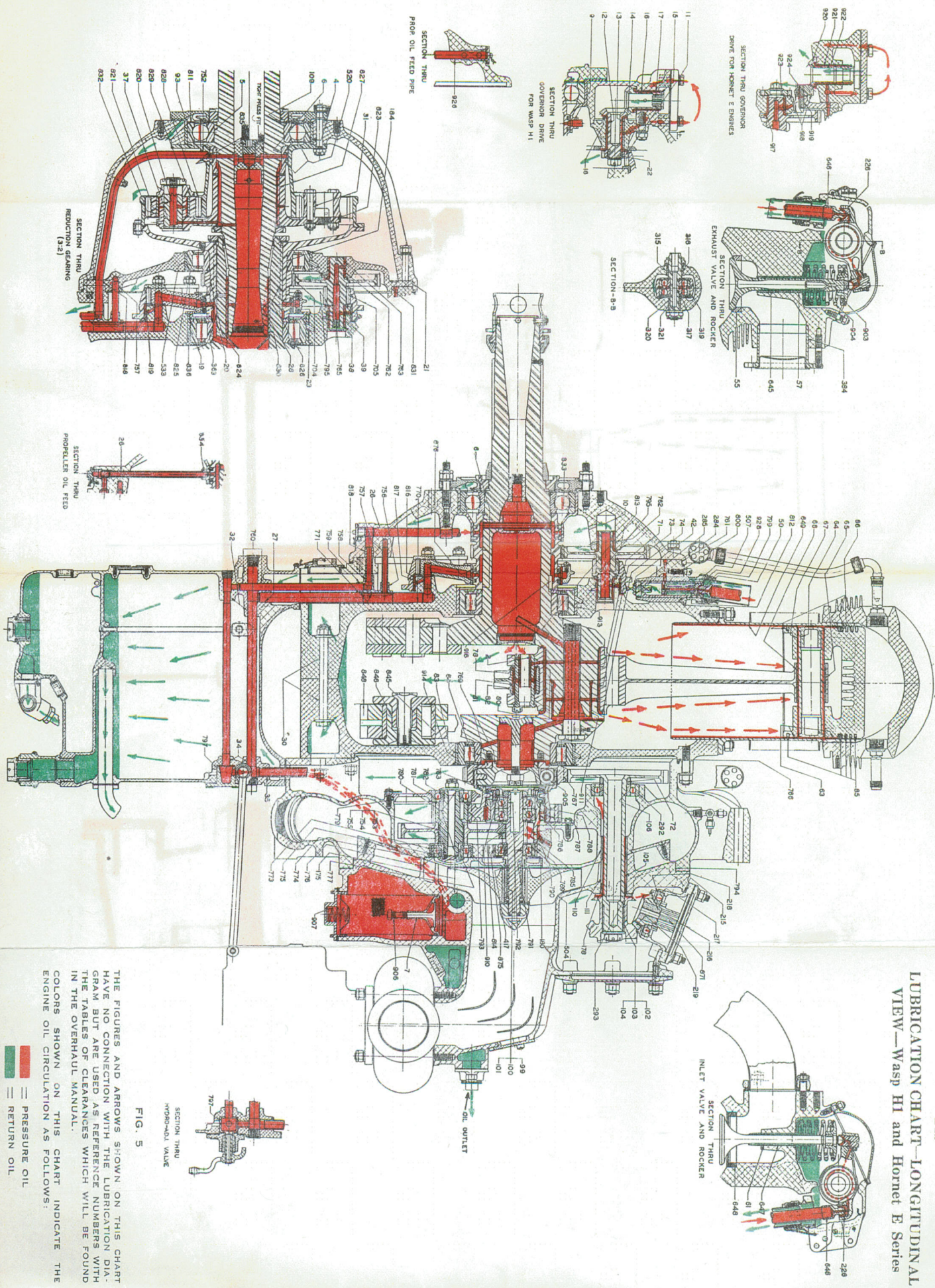


FIG. 5

THE FIGURES AND ARROWS SHOWN ON THIS CHART HAVE NO CONNECTION WITH THE LUBRICATION DIAGRAM BUT ARE USED AS REFERENCE NUMBERS WITH THE TABLES OF CLEARANCES WHICH WILL BE FOUND IN THE OVERHAUL MANUAL.

COLORS SHOWN ON THIS CHART INDICATE THE ENGINE OIL CIRCULATION AS FOLLOWS:

- PRESSURE OIL
- RETURN OIL







LUBRICATION CHART—REAR VIEW—  
Wasp Jr. B, Wasp H1 and Hornet E Series

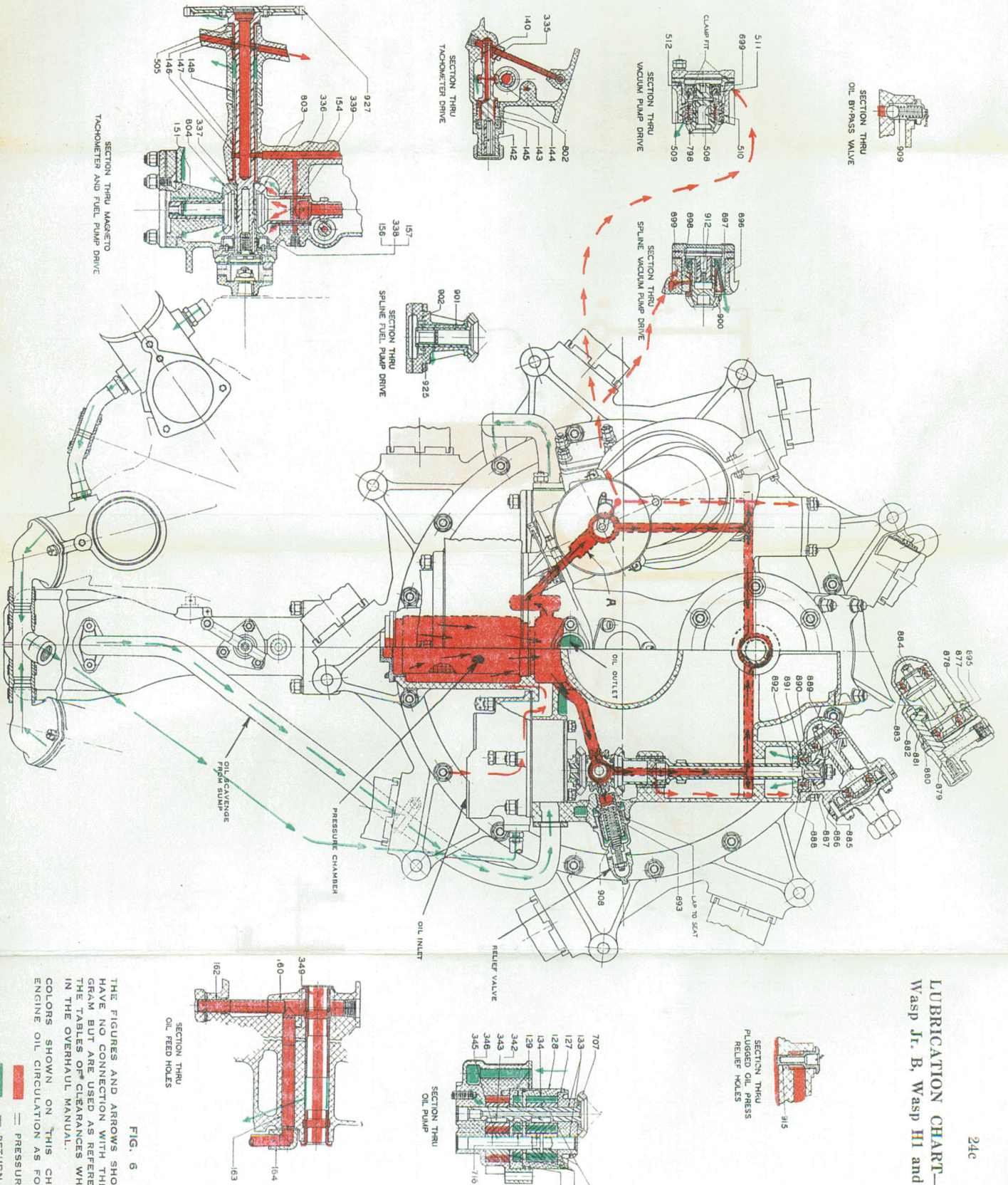


FIG. 6

THE FIGURES AND ARROWS SHOWN ON THIS CHART HAVE NO CONNECTION WITH THE LUBRICATION DIAGRAM BUT ARE USED AS REFERENCE NUMBERS WITH THE TABLES OF CLEARANCES WHICH WILL BE FOUND IN THE OVERHAUL MANUAL.

COLORS SHOWN ON THIS CHART INDICATE THE ENGINE OIL CIRCULATION AS FOLLOWS:

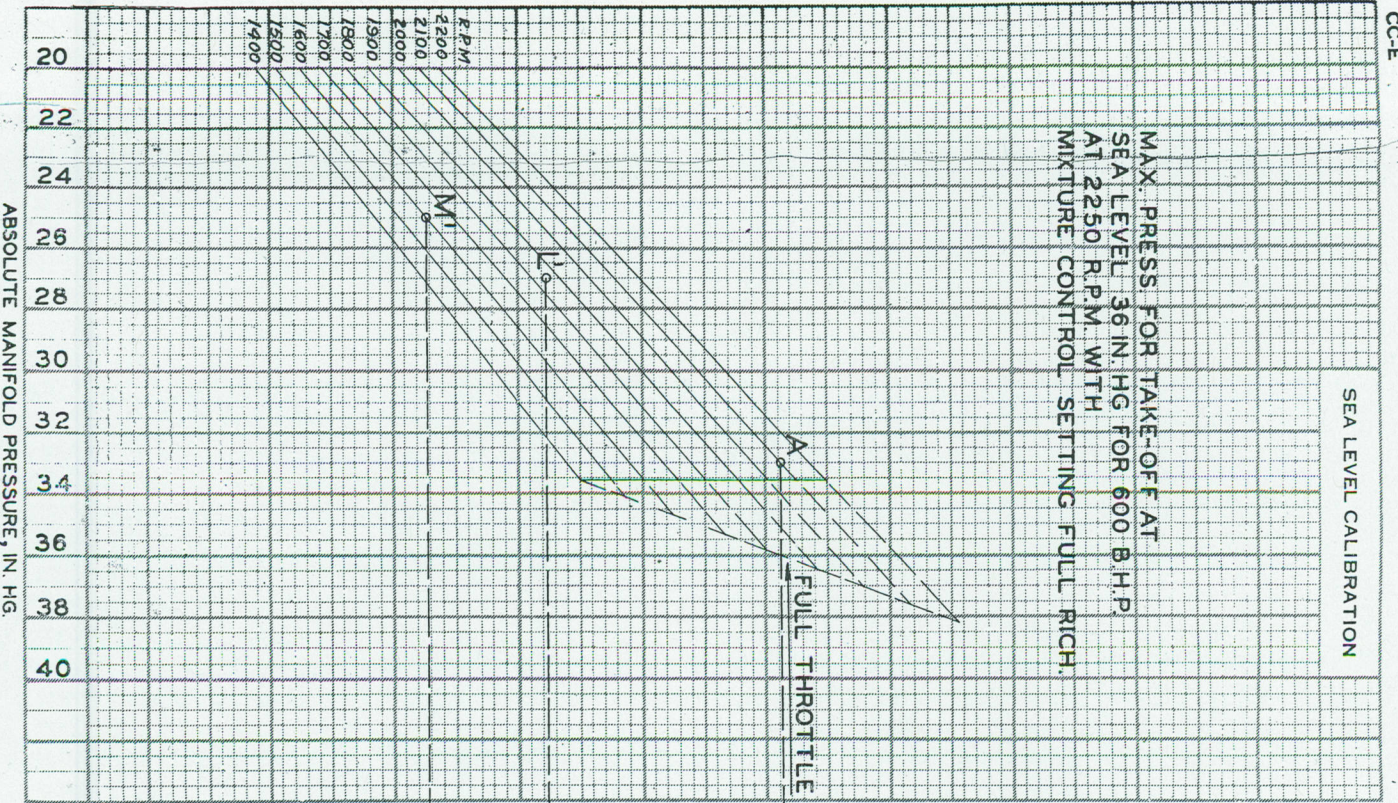
- PRESSURE OIL
- RETURN OIL





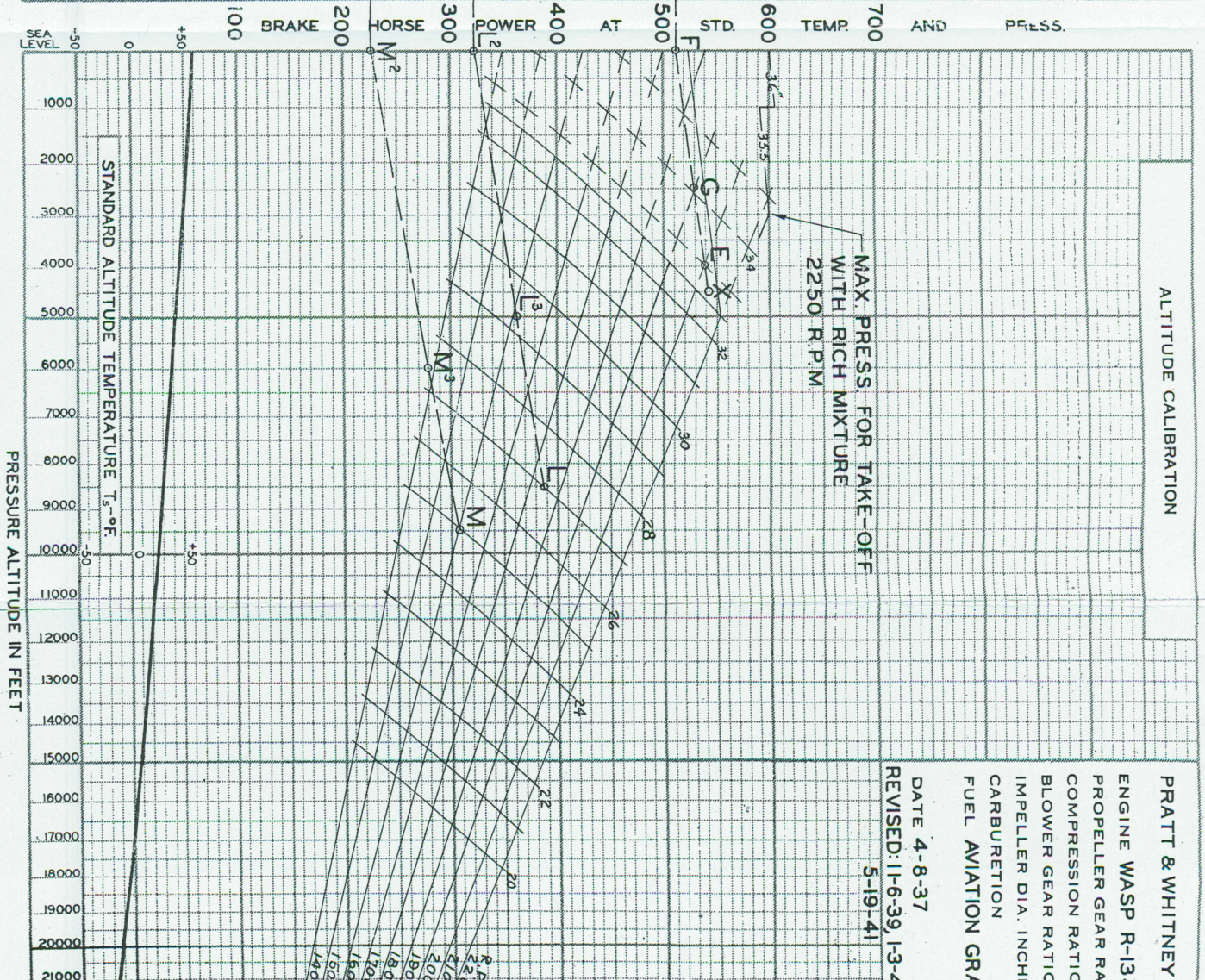
SEA LEVEL CALIBRATION

MAX. PRESS. FOR TAKE-OFF AT  
SEA LEVEL 36 IN. HG FOR 600 B.H.P.  
AT 2250 R.P.M. WITH  
MIXTURE CONTROL SETTING FULL RICH.



ALTITUDE CALIBRATION

MAX. PRESS. FOR TAKE-OFF  
WITH RICH MIXTURE  
2250 R.P.M.



PRATT & WHITNEY  
ENGINE WASP R-13  
PROPELLER GEAR RA  
COMPRESSION RATIO  
BLOWER GEAR RATIO  
IMPELLER DIA. INCH  
CARBURETION  
FUEL AVIATION GRA

DATE 4-8-37

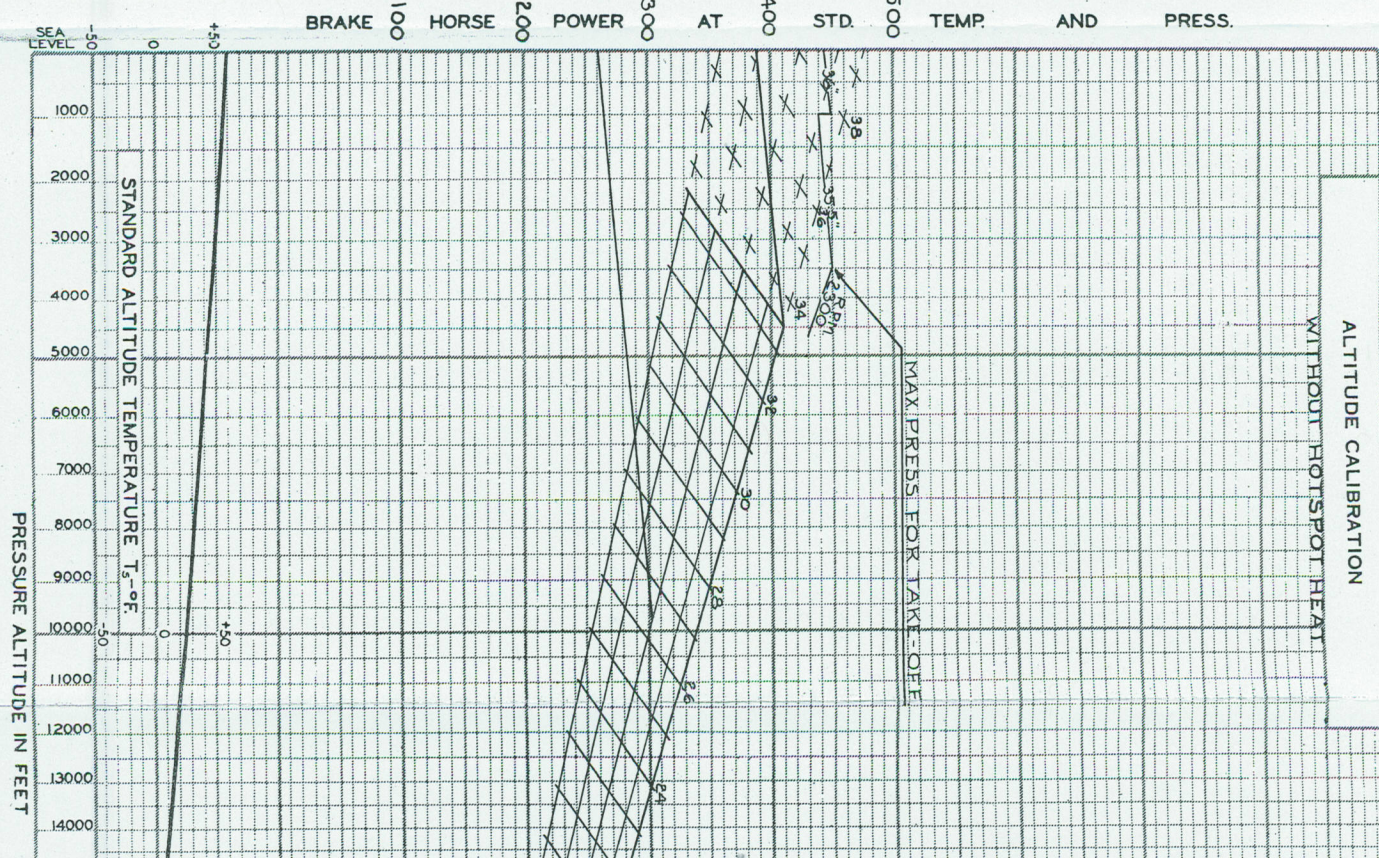
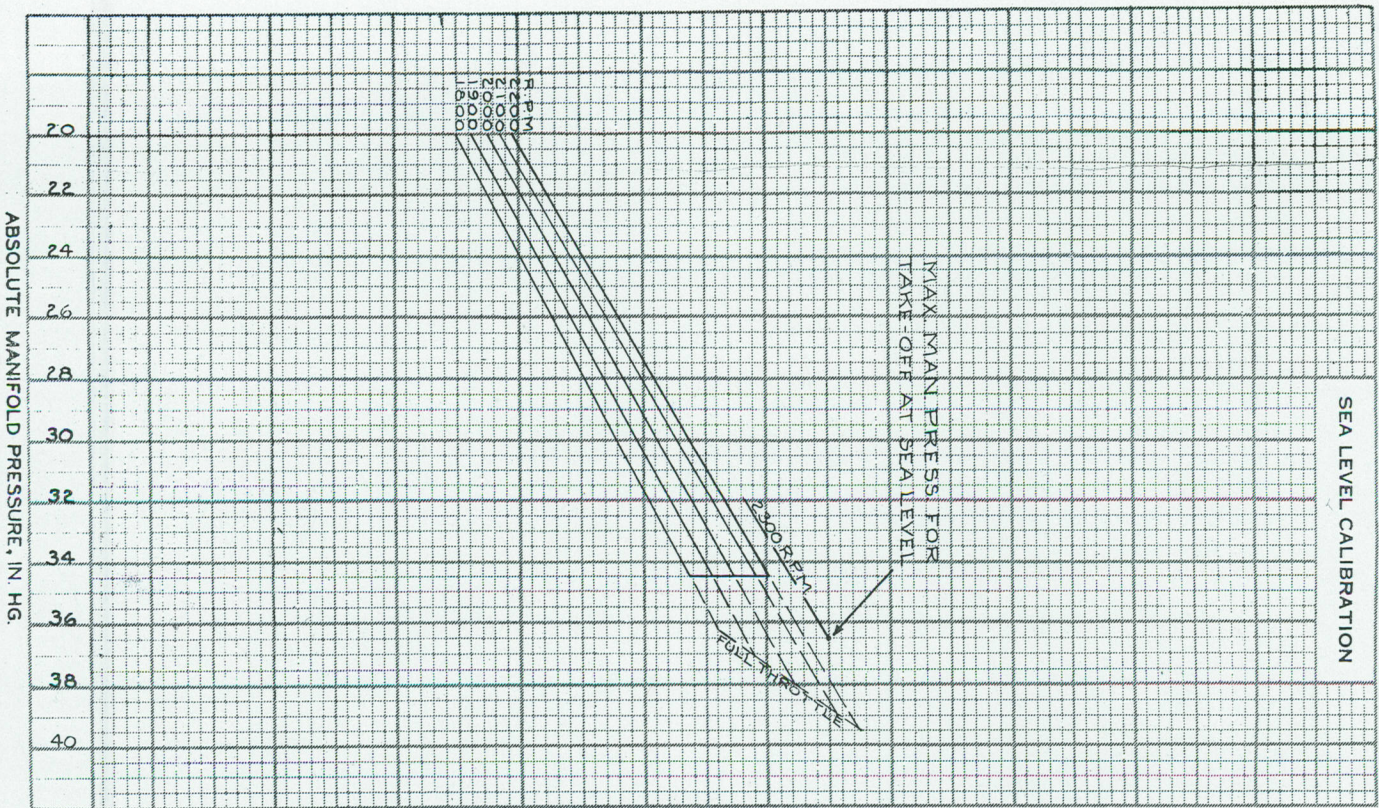
REVISED: 11-6-39, 1-3-41

5-19-41









PRATT & WHITNEY A  
 ENGINE WASP JR. R-980  
 PROPELLER GEAR RAT  
 COMPRESSION RATIO  
 BLOWER GEAR RATIO  
 IMPELLER DIA. INCHE  
 CARBURETION  
 FUEL AVIATION GRA

DATE

6-26-36

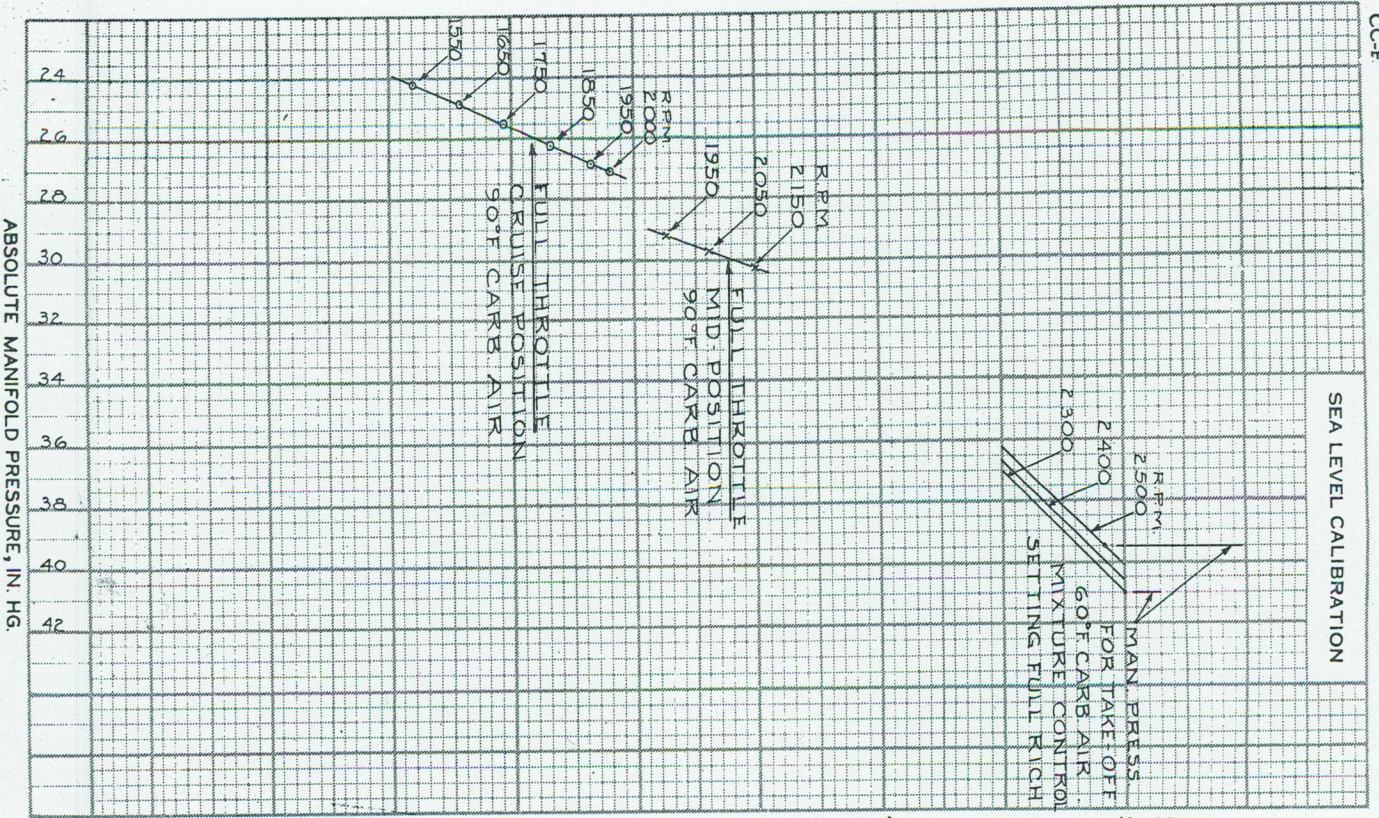
REVISED: 5-19-38, 12-5



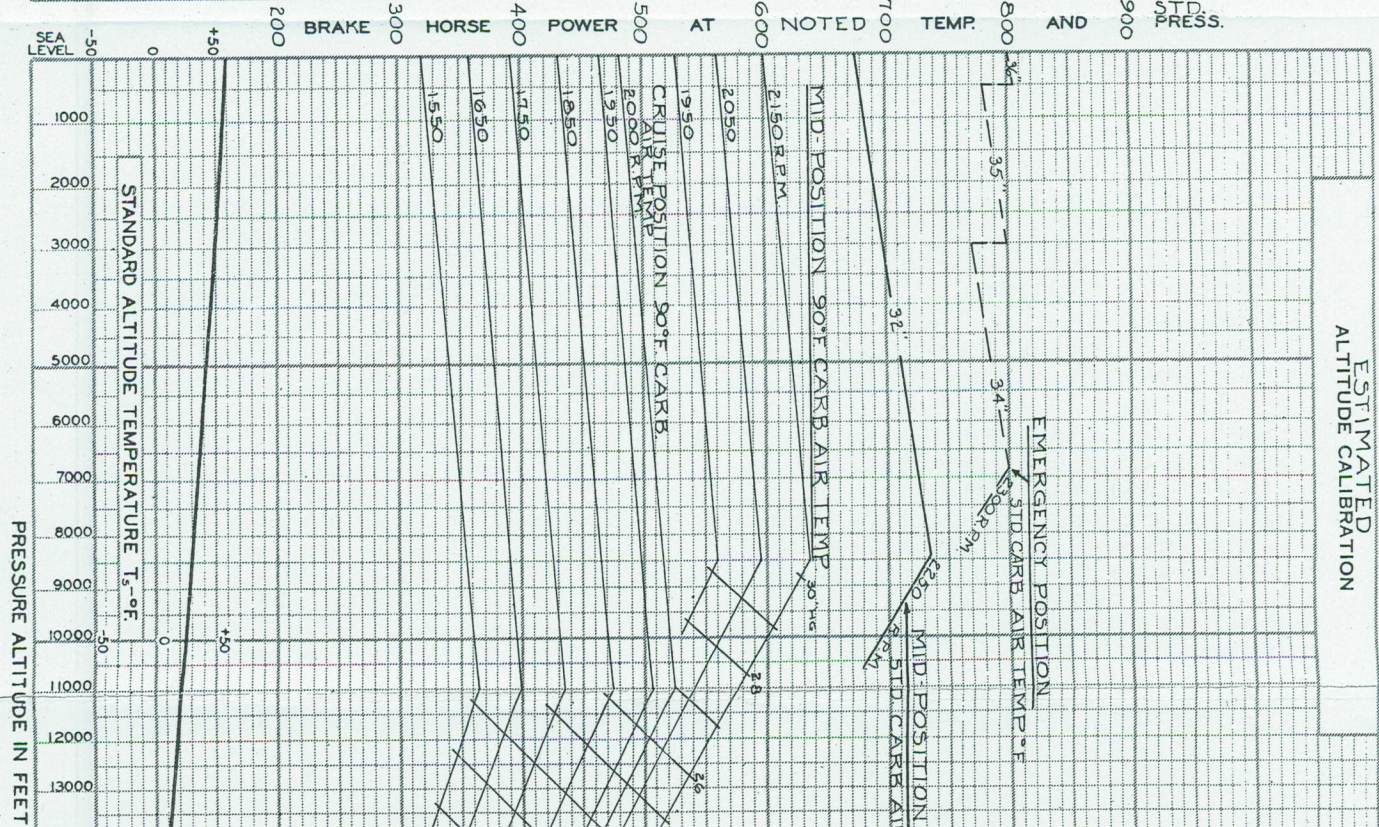




SEA LEVEL CALIBRATION



ESTIMATED ALTITUDE CALIBRATION



PRATT & WHITNEY  
 ENGINE HORNET R-16  
 PROPELLER GEAR RA  
 COMPRESSION RATIO  
 BLOWER GEAR RATIO  
 IMPELLER DIA. INCH  
 CARBURETION NAY -  
 FUEL AVIATION GRA

DATE 10-26-38

REVISED 11-4-38, 2-14-39, 12-6-39, 8-30-39

ABSOLUTE MANIFOLD PRESSURE, IN. HG.

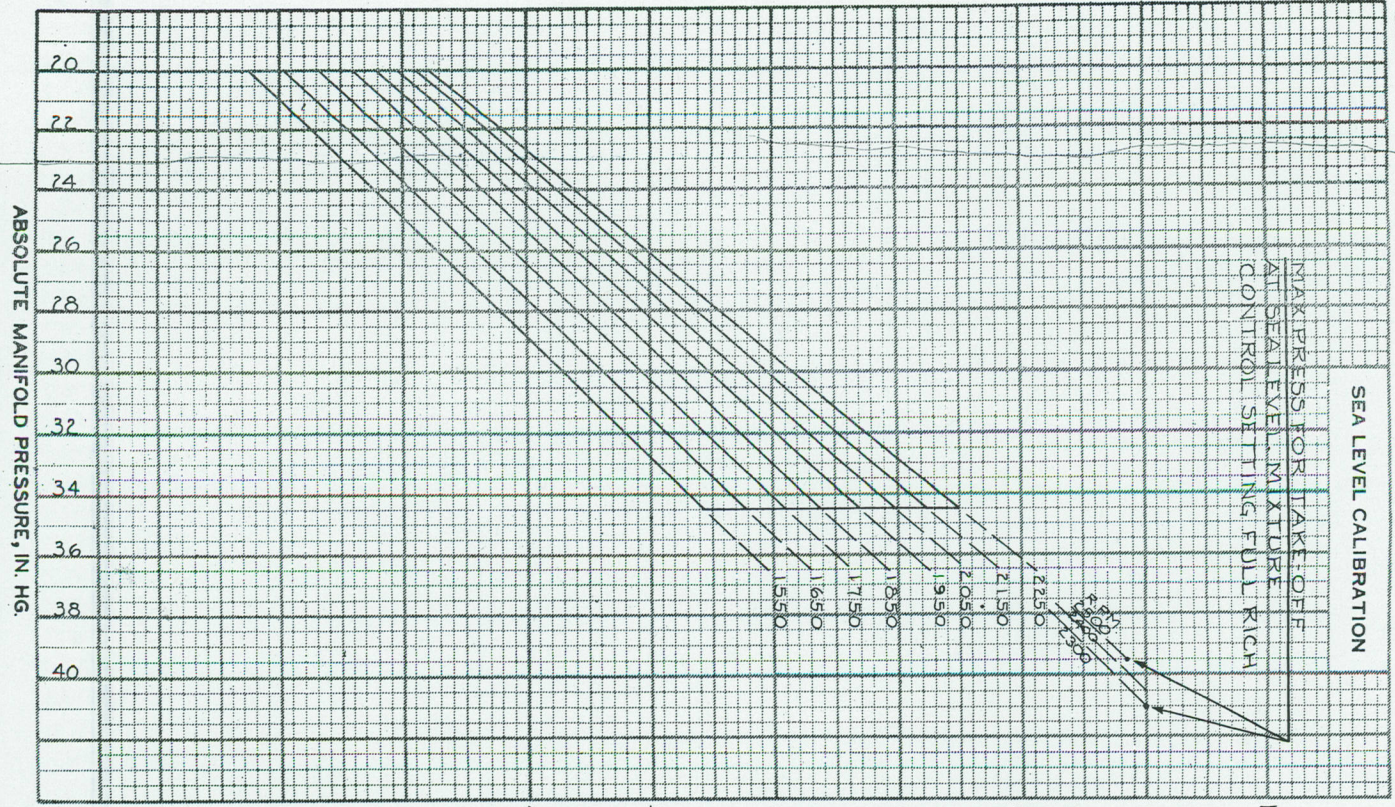
PRESSURE ALTITUDE IN FEET



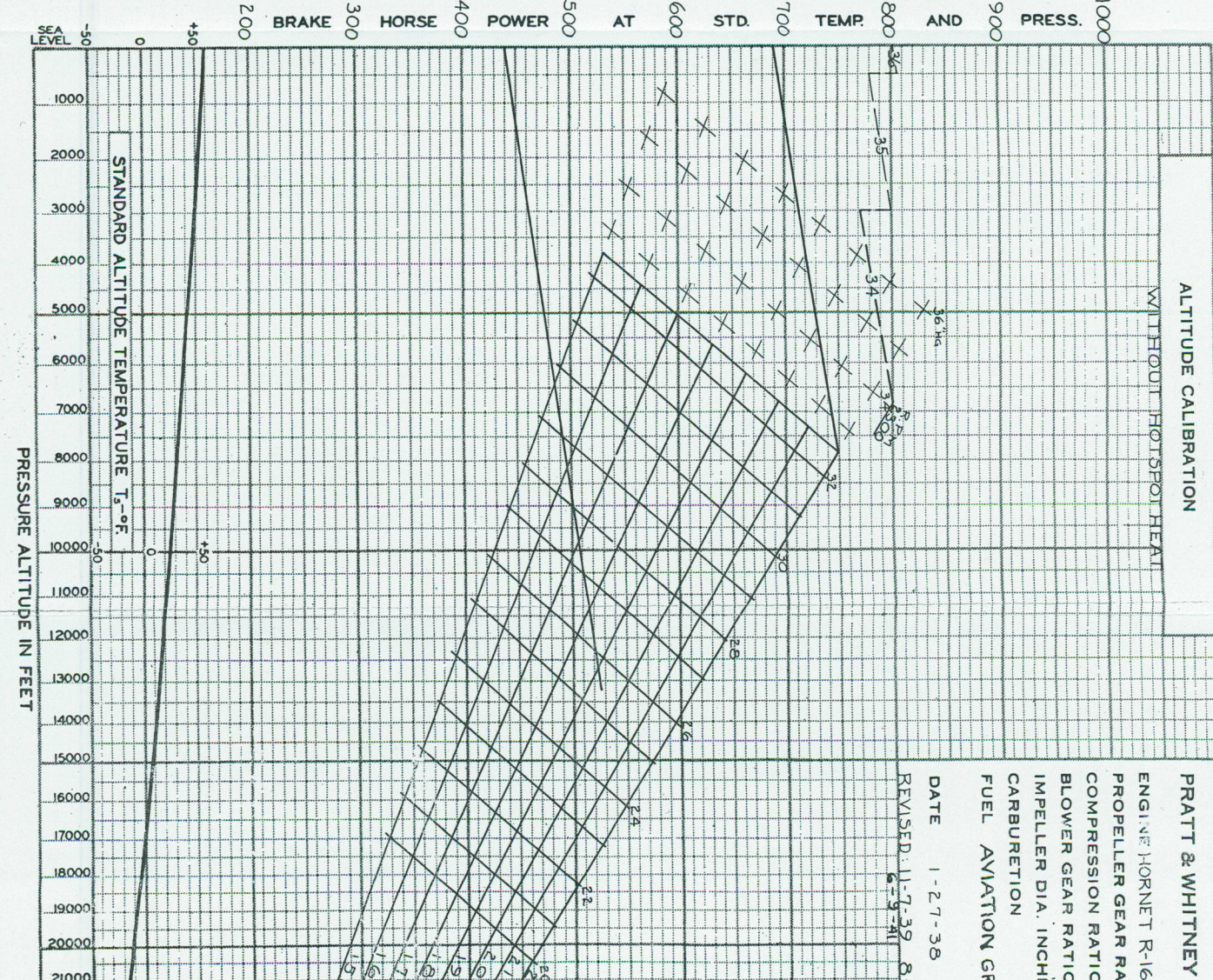




SEA LEVEL CALIBRATION  
MAX PRESS. FOR TAKE-OFF  
AT SEAL LEVEL MIXTURE  
CONTROL SETTING FULL RICH



ALTITUDE CALIBRATION  
WITHOUT HOTSPOT HEAT



PRATT & WHITNEY  
ENGINE HORNET R-16  
PROPELLER GEAR RA  
COMPRESSION RATIO  
BLOWER GEAR RATIO  
IMPELLER DIA. INCH  
CARBURETION  
FUEL AVIATION GR

DATE 1-27-38  
REVISED 11-7-39

STANDARD ALTITUDE TEMPERATURE T<sub>s</sub> °F

ABSOLUTE MANIFOLD PRESSURE, IN. HG.

PRESSURE ALTITUDE IN FEET

1000 PRESS. AND 900 TEMP. 800 STD. 700 AT 600 POWER 500 HORSE 400 BRAKE 300 200

SEA LEVEL 0

20 22 24 26 28 30 32 34 36 38 40

1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000



