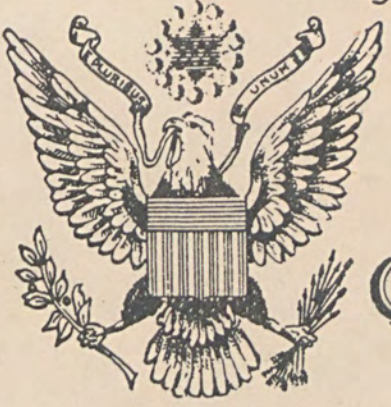


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MasterBrand BTM

United States Army
 Air Corps



CERTIFICATE

This is to certify that 2nd Lieutenant RALPH L. MINKER JR. 0770722

has satisfactorily completed the prescribed course of instruction in

Specialized Four Engine Pilot Training

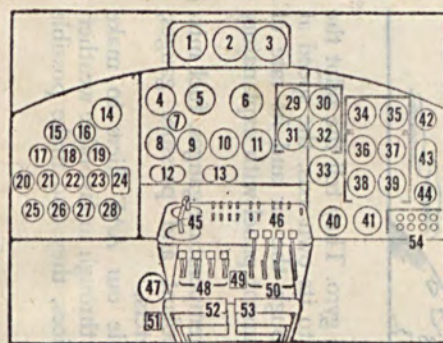
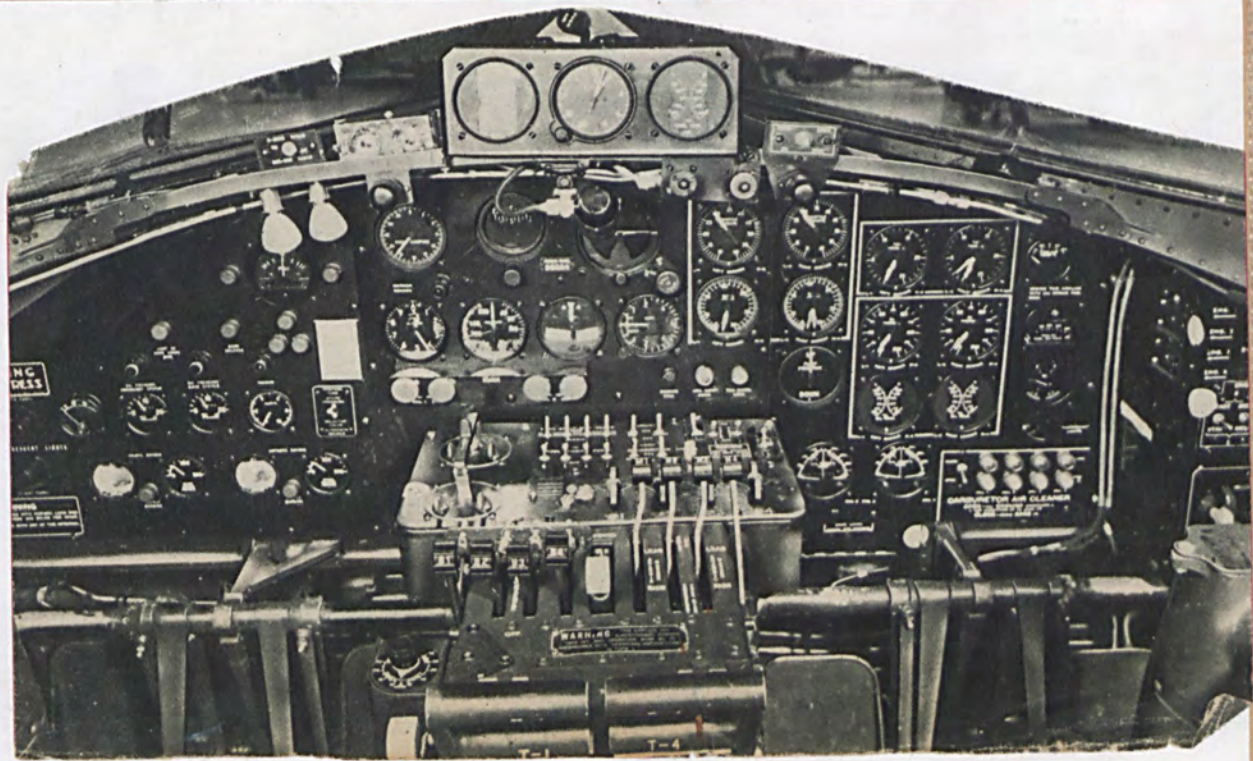
B-17 TYPE AIRCRAFT

GIVEN AT R.A.A.F., ROSWELL, NEW MEXICO
 THIS 3rd DAY OF June
 NINETEEN HUNDRED FORTY FOUR

John C. Horton

 JOHN C. HORTON,
 Colonel, Air Corps,
 Commanding.

Turn over for a picture and index of an instrument panel →



- 1 & 3. Carburetor air temperature gauges.
- 2. Accelerometer.
- 4. Radio compass indicator.
- 5. Turn indicator.
- 6. Artificial horizon or flight indicator.

- 7. Marker beacon.
- 8. Altimeter.
- 9. Air speed indicator.
- 10. Turn & bank.
- 11. Rate of climb.
- 12 & 13. Prop feather, left & right engines.

- 14. PDI equipment indicator.
- 15. Bomb doors open.
- 16. Bomb release.
- 17 & 18. Hydraulic pressure warning lights.
- 19. Vacuum warning light.
- 20. Volt meter.
- 21. Hydraulic pressure emergency system.
- 22. Hydraulic pressure system.
- 23. Vacuum gauge.
- 24. Air speed source control.
- 25 & 27. Pilot's & copilot's oxygen flow indicator.
- 26 & 28. Pilot's & copilot's oxy-

- gen cylinder pressure.
- 29 & 30. Manifold pressure, left & right engines.
- 31 & 32. Tachometer, left & right engines.
- 33. Flap position indicator.
- 34 & 35. Fuel pressure, left & right engines.
- 36 & 37. Oil pressure, left & right engines.
- 38 & 39. Oil temperature, left & right engines.
- 40 & 41. Cylinder head temperature, left & right engines.
- 42. Free air temperature.

- 43. Fuel tank gauge.
- 44. Fluorescent light control.
- 45. Ignition master switch.
- 46. Switch for fuel, landing gear, etc.
- 47. Auto pilot turn control.
- 48. Turbo-supercharger regulators.
- 49. Lock for mixture controls and supercharger.
- 50. Mixture controls.
- 51. Lock for throttles.
- 52 & 53. Throttles.
- 54. Carburetor air cleaner.

COCKPIT AND INSTRUMENT PANEL ON B-17 FORTRESS