



Introduction.

Designed and built by Boeing, this was the first all-metal monoplane fighter aircraft to enter service with the United States Army Air Corps. The prototype first flew in 1932 and after several mishaps and numerous changes, the design was eventually accepted into service two years later.

Although the first all-metal fighter it was also the last of its type to use fixed undercarriage, an open cockpit and external bracing wires - a hang-over from the bi-plane era.

Powered by a Pratt & Whitney 9 cylinder radial developing 600hp, the P26 was faster than previous U.S. combat aircraft with a top speed of 234 m.p.h. However just a few years later, designs such as the Curtiss P-36, Hawker Hurricane and Messerschmitt Bf109 were taking command of the skies.

The long telescopic gunsight mounted in front of the windscreen gave rise to pilots dubbing the design "Pea-Shooter" - a name which stuck for the life of the type.

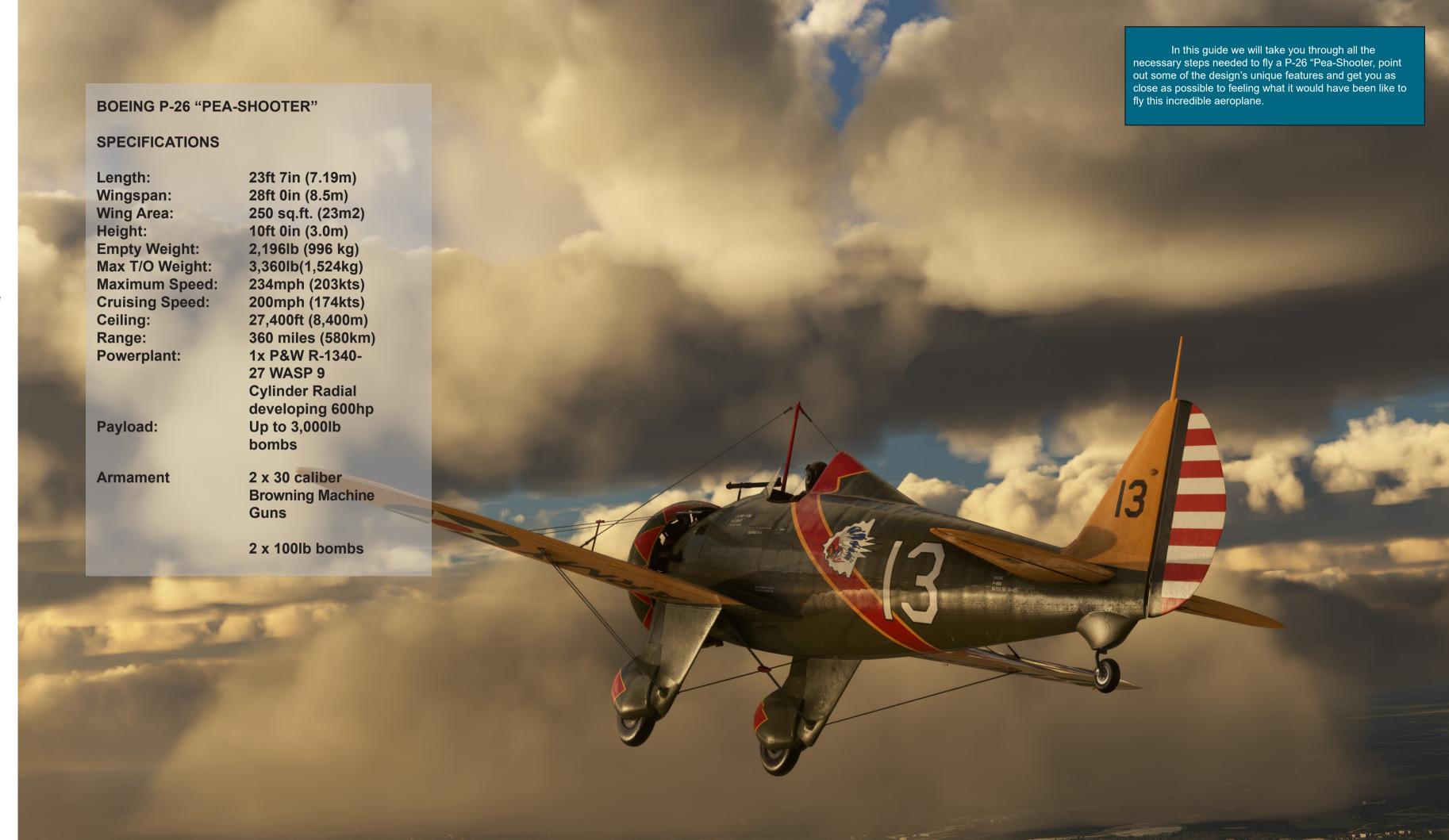
In the years before the Second World War, American fighter aircraft were painted in bright colours to signify their respective units. Some designs were incredibly intricate and pilots were justly proud of their mounts. Pursuit Squadron emblems were displayed large on the fuselage sides and various stripes, bands and flashes indicated the rank of the pilot and their position in the squadron.

22 squadrons flew the P-26 and the little fighter were the mainstay of the USAAC front line until 1938. The "Pea-Shooter" was exported to China for use by the Chinese Nationalist Air Force against invading Japanese forces. In August of 1937, the P26's engaged and shot down three Japanese bombers without loss and the skirmishes that developed between the Chinese Pea-Shooters and Japanese A5Ms became the first recorded aerial dog-fights between two all-metal fighter aircraft.

P26s were also sent to the Philippines following the Japanese attack on Pearl Harbour in 1941. Despite being out-classed by the more modern Japanese foe, the valiant pilots of the Philippine Army Air Corps and their "vintage" P26 Pea-Shooters engaged and destroyed a Mitsubishi G3M bomber and no less than three A6M "Zeros".

By 1943, the P-26 had been retired from active front-line duty and was placed in reserve as a trainer.

From a total of 111 airframes built, only a handful remain in museums and at today's date, only one is airworthy.





94th Pursuit Squadron Selfridge Field Michigan 1935



95th Pursuit Squadron USAAC March Field 1935



67th Pursuit Squadron Philippines Army Air Corps credited with shooting down a Japanese bomber on 12th December 1941



17th Pursuit Squadron Chinese Nationalist Air Force Chu-yung 1937. The pilot was Lt. "Buffalo" Wong Sun Sui an "ace".



You're virtually there.

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- 1. Airspeed indicator
- 2. Magnetic Compass
- 3. Tachometer
- 4. Altimeter
- 5. Gyro compass
- 6. Ambient Air Temperature
- 7. Engine Gauge
- 8. Manifold Pressure
- 9. Gyro Compass Knob
- 10. Volt Meter
- 11.Battery Switch
- 12. Magneto Switch
- 13. Starter
- 14 Throttle

- 15. Mixture
- 16. Carburettor Heat
- 17. Manual Fuel Pump Lever
- 18. Elevator Trim Lever
- 19. Instrument Lights Switch
- 20. Navigation Lights Switch
- 21. Park-Brake Lever
- 22. Instrument Lights Rheostat
- 23. Compass Light Rheostat
- 24. Fuel Tank Selector
- 25. Fuel Contents (Main Only)
- 26. Flaps Control Handle
- 27. Flaps Position Indicator
- 28. Cockpit door release
- 29. Avionics (GPS) toggle



Flying the P26 "PeaShooter".

At the end of this manual you will find a complete set of CHECKLISTS. However, it will be useful to run through a few things about handling and flying the PeaShooter.

So, let's get started. We are going to assume you are using the "Cold-Dark" start method. That is, all switches OFF, all controls neutral.

Turn ON the Master Battery Switch (11) on the Main Instrument Panel.

Turn ON the Avionics Switch (29) on the Center Panel to test if the GPS is operational. Turn off this switch when done TO AVOID BATTERY DEPLETION.

Fuel system.

The P26 has three tanks- one in each wing which are considered **Left and Right AUXILIARY** and centrally-mounted **MAIN** which includes the **RESERVE**. The **FUEL GAUGE (25)** records the level in the **MAIN TANK ONLY**.

There is a MANUAL FUEL PUMP and an ENGINE-DRIVEN-FUEL PUMP.

PUMP the Manual FUEL PUMP HANDLE (17) AT LEAST 5 STROKES observing a rise in fuel pressure at the gauge (7).

N.B.. IF YOU SKIP THIS PROCESS THE ENGINE WILL START BUT ONLY WHILE THE FUEL LASTS IN THE FUEL LINE, THEN IT WILL CUT!

Ignition system.

Turn the MAGNETO SWITCH (12) to BOTH

Engine Start.

START THE ENGINE.

"Crack" the THROTTLE (14) SLIGHTLY OPEN
MIXTURE (15) TO FULL-RICH (FULLY FORWARD)
PULL THE STARTER HANDLE OUT AND HOLD IT FOR 7-8 SECONDS
This energises the electric starter and the prop will begin to turn slowly. After at least 7 seconds, release and PUSH THE STARTER HANDLE FULLY FORWARD TO

The engine should fire up and run. If it doesn't repeat the above process ensuring that you give the energiser (HANDLE OUT) adequate time.

Once the engine is running, check the gauges for readings which should be in the regions:

OIL PRESSURE at least 60 p.s.i. OIL TEMPERATURE at least 60 °C.

Run-up Test.

To check that everything is order, there are several checks to be made whilst warming up the engines, prior to taxying out.

Set throttles to give 1,000 R.P.M. idle. (Approx. 15 inches of mercury - Manifold Pressure)

OIL PRESSURE 60 P.S.I
OIL TEMPERATURE 15° (MINIMUM)

Check operation of Magnetos. (Mag-check)

With the PARK-BRAKE (21) set, open up to around 1,800 R.P.M.

Turn the MAGNETO SWITCH from BOTH to RIGHT Observe a drop in R.P.M. of NO MORE THEN 100 Return the switch from RIGHT to BOTH

Turn the MAGNETO SWITCH from BOTH to LEFT Observe a drop in R.P.M. of NO MORE THEN 100 Return the switch from LEFT to BOTH

Check operation of flaps (26).

Taking off.

Once lined up with the runway, set the bakes.

Set flaps to 20° down.
Set Elevator Trim slightly nose down.
Set Throttles to idle.
Mixture control fully RICH
Check fuel contents.
Check engine instruments.

Open up to 1800 R.P.M (35 inches of mercury) and release the brakes. As you begin to roll open the throttles to maximum. The P26, being a "tail-dragger", can have a tendency to swing on the takeoff roll. This is easily countered with the rudder. This behaviour diminishes once the tail-wheel is off the ground. Ease back on the stick to take off at around 90 M.P.H

Fly straight and level to 110 M.P.H. before commencing climb out. Raise the flaps at 800 ft.

Climbing.

Best speed for economical climbing is 125 m.p.h. Above 5,000 ft., lean off the mixture. If required, switch on the **AVIONICS** (29) and **SET RADIOS**

Cruise.

Trim the elevator tab for level flight.

Throttle should be set to give 2,000 R.P.M. or around 43 inches of mercury Switch to Auxiliary (wing) tanks.

Approach and Land.

Reduce speed to below 200 m.p.h.

Set flaps to 20⁰ down.

Set Elevator Trim as required.

Mixture control full rich.

Check fuel contents and switch to MAIN TANK.

Check engine instruments.

The correct speed for approach to land is 100.m.p.h.

Set flaps to full down and balance throttle to give around 75 m.p.h.
as you reach the threshold.

Close throttle and touch down at around 60-80 m.p.h.
Allow the tail to drop and the tail-wheel ground before applying brakes.

CHECKLISTS

PRE-FLIGHT

CREW ABOARD

DOOR CLOSED

PARKING BRAKE ON

MASTER BATTERY OFF

MAGNETOS OFF

FLAPS UP

FUEL CONTENTS CHECK

FUEL SELECTOR OFF

THROTTLE CLOSED

MIXTURE CLOSED

PRE START

PARKING BRAKE ON

MASTER BATTERY ON

MAGNETOS OFF

FUEL SELECTOR MAIN

FUEL PUMP (MANUAL) STROKE TO GIVE 5 P.S.I.(MIN.)

FLAPS UP

THROTTLE OPEN 1/4 INCH

MIXTURE FULL RICH

PLEASE NOTE: CARBURETTOR AIR CONTROL SHOULD BE LEFT IN "COLD" POSITION FOR STARTING.

START

PARKING BRAKE ON

MASTER BATTERY ON

MAGNETOS BOTH

FUEL SELECTOR MAIN

FLAPS UP

THROTTLE OPEN 1/4 INCH

MIXTURE FULL RICH

STARTER PULL TO ENERGISE (AT LEAST 4 SECONDS)

11111

STARTER PUSH TO START (UNTIL/ENGINE FIRES)

WARM AND RUN-UP MAG TEST

OIL PRESSURE AT LEAST 60 P.S.I.

OIL TEMPERATURE 15° (MINIMUM)

FUEL PRESSURE 10 -15 PSI

BRAKES CHECK

ALTIMETER SET

COMPASS FREE

THROTTLE 1800 R.P.M.

100 RPM DROP
RIGHT MAG ON

OFF

LEFT MAG OFF

RIGHT MAG

100 RPM DROP

LEFT MAG ON

THROTTLE IDLE

NAV LIGHTS ON

TAKEOFF

THROTTLE 1800 R.P.M.

MIXTURE FULL RICH

BRAKES RELEASE

THROTTLE 2.300 R.P.M.

ROTATION 75 MPH

ATTITUDE LEVEL UNTIL 110 MPH

CLIMB

THROTTLE TO GIVE 140 -170 MPH

TRIM NOSE UP FOR GENTLE CLIMB

FLAPS UP

FUEL SELECTOR AUX. TANKS

CRUISE

TRIM AS REQUIRED

THROTTLE TO MAINTAIN 200 MPH

MIXTURE AS REQUIRED

APPROACH AND LANDING

TRIM AS REQUIRED

THROTTLE TO GIVE 150 MPH (INITIAL)

FUEL SELECTOR MAIN TANK

FLAPS 20⁰ down

THROTTLE TO GIVE 100 MPH

FLAPS FULL DOWN

THROTTLE IDLE TO LAND AT 68 MPH

BRAKES APPLY WHEN TAIL-WHEEL GROUNDED

SHUTDOWN

PARKING BRAKE ON

THROTTLE TO 1,400 R.P.M.

MIXTURE CLOSED

THROTTLE CLOSE IMMEDIATELY

MAGNETOS OFF

MASTER BATTERY OFF

AVIONICS OFF

FUEL SELECTOR OFF

FLAPS UP

DOOR OPEN

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