

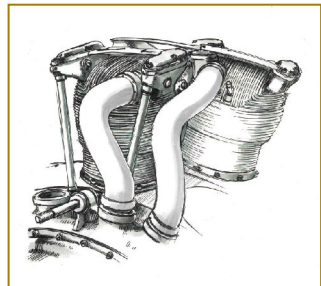
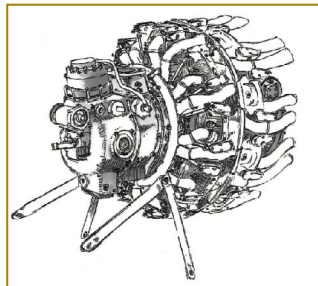
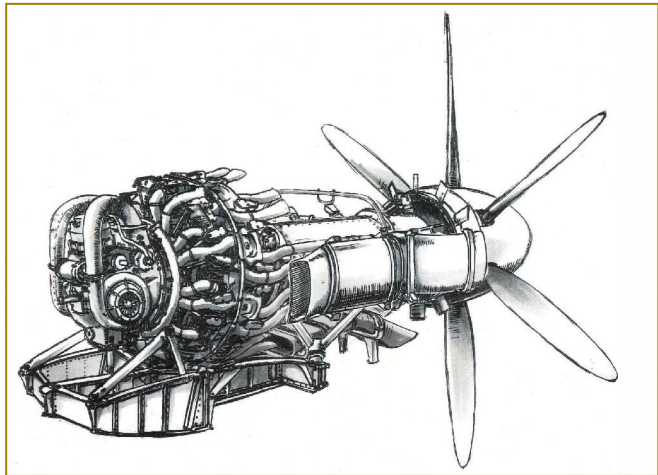
1 'Ha-43' Type 42 Engine

This engine, also known as the 'Ha-43' Type 41 "Sp", was a redesigned version of the engine developed for the 'Senden'. It was a Mitsubishi air-cooled 18 cylinder radial piston engine, designed to reach a takeoff thrust of 2100 horsepower. It was equipped with a 2-stage supercharger originally developed for the highly reliable 'Kinsei' engine, with two rotors in the left and right of the 2nd stage, allowing continuously variable transmission via fluid coupling. In addition, it was also designed to compensate for its 'octane rating 91' low fuel efficiency with an injection of methanol inside the supercharger during take-off and combat periods.

Type: 18 Cylinder Air-Cooled Radial Piston
Internal Dimensions: 140x150mm
Compression Ratio: 7.0
Process Capacity: Unit: 2.31L Total: 41.6L
Nominal Output: 1850HP 1660HP
Rotation Speed: 2800rpm 2800rpm
Altitude: 2000m 8400m

Performance

| Classification | Regular Maximum | Nominal | | Take-Off |
|---------------------------|-----------------|-------------|-------------|-------------|
| | | First | Second | |
| Intake Pressure | 1 5 0 | 3 0 0 | 3 0 0 | 5 0 0 |
| Rotation Speed | Crank Shaft | 2 5 5 0 rpm | 2 8 0 0 rpm | 2 9 0 0 rpm |
| | Propeller Shaft | 1 0 5 0 rpm | 1 1 5 4 rpm | 1 1 9 5 rpm |
| Above Ground Output | 1 7 3 0 HP | | | 2 0 7 0 HP |
| High Speed Rotation Speed | | 3 0 0 0 rpm | | |



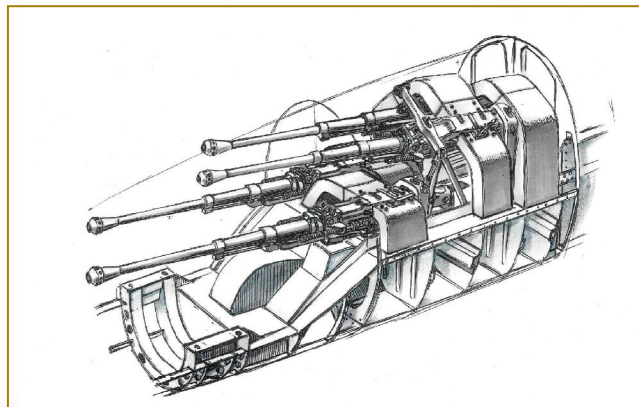
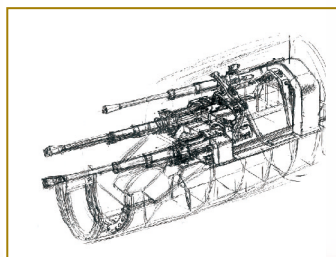
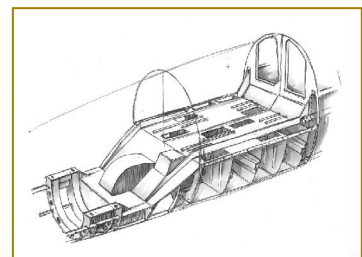
3 Cockpit

It was a narrow cockpit compared to the average cockpit of those days. However, the ideas behind the design were light years ahead of other aircraft. The left and right walls of the cockpit were made of the structural material of the fuselage, and this structural material allowed it to strengthen the fuselage of the main craft. The plating, which possessed nothing more than a function to smoothly attach the outer surface of the fuselage, could be easily detached from the exterior where it was screwed on. Due to a design whereby each of the various operating devices, rods, electrical wiring, etc were passed through the space between this structural material and the plating, it became possible to assemble those parts from the exterior of the fuselage. This design made it possible for a large number of people to work in the vicinity of the cockpit, streamlining the construction process of the craft itself. This also held true during maintenance. The result of this was also expressed in the cockpit, which had an extremely regulated design, with exposure to nothing but the various outfitted equipment.

4 Type 5 30mm Fixed Machine Guns

This machine gun was the officially adopted successor to the "Type 17 Prototype 30mm Machine Gun" that began development in 1942. It was a powerful machine gun that could fire its 350g ammunition at an initial velocity of 750metres/second, however each single gun had a weight of 70kgs, and the firing recoil was quite large, meaning there were numerous obstacles involved with equipping them on the aircraft. In order to allow the aircraft to endure a recoil of up to roughly 2.5t/m when the machine gun was firing, a reinforcing structure similar to that of a bridge girder was equipped on top of the center-line of the fuselage. In addition, to equip all four machine guns in such a confined space, a complicated suspension system was adopted whereby the left and right machine guns were staggered and the supply magazine and spent shells were made to cross over. The number of shots carried was 60 for each machine gun. It was possible to choose to simultaneously fire either all four machine guns, or the lower two machine guns only.

| Type 5 30mm Fixed Machine Gun | | |
|-------------------------------|-----------------|-----------------------------|
| Caliber | Total Length | Weight |
| 30mm | 2192mm | 70kg |
| Initial Velocity | Firing Velocity | Ammunition Cartridge Weight |
| 750m/s | 350 shots/m | 660g |



Important Notes When Assembling

Please read the manual thoroughly before assembling. Check the part numbers carefully, and then cut them cleanly from the sprue. Throw away any leftover waste. When using any cutting implements, tools, paints or glue while treating the parts, be sure to read each item's handling instructions and use the item correctly. Due to the nature of the modeling, it is inevitable that there are sharp parts included. Please take care with these during assembly. Tools and other necessary items can be purchased from Volks Showrooms, via the Volks Website Store, or your local hobby store. When painting we recommend 'Vallejo Colors', paints of a new generation that are safer and more kind to the environment.

Please Note

When assembling please be absolutely certain to read the following.

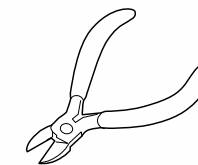
This product is suitable for persons 15 years and over. Please be sure not to give this product to children under the age of 15. Be sure to fully read and understanding the "Assembly Instructions" before you begin assembly. This kit contains small parts. Please be careful that small children do not accidentally swallow them as it may cause choking. In order to faithfully reproduce the design of the original aircraft, this kit includes some pointed and/or sharp pieces. Please be careful when using as they may cause unexpected injuries. If you have small children in your household, store them in a place out of children's reach, and do not give them to children. The parts and instruction manual come in a plastic bag. Do not put this over your head or cover your face with it as this may cause suffocation. This product is a precision-made item. Forcing it unreasonably, bending it, or dropping it may cause damage.

Necessary Tools for Assembly

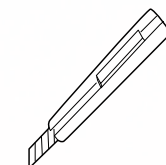
* These items can be purchased from any Volks location or your local hobby store.



Glue for use with plastic models. (thinner liquid glue may also come in handy.)



Nipper



Utility knife or pen knife



Tweezers

Auxiliary Symbols



Work Progress Indicator



Decal Number



Do Not Glue



Part Number



Assembly Option



70861

Paint Number



Warning Note When Assembling

Vallejo Color Numbers

MC=Model Color MA=Model Air GC=Game Color PA=Panzer Ace

| | | | | | |
|--------|-------|---|--------|-------|---|
| MA 007 | 71007 | Olive Green Corresponding Mr. Color color : C15 IJN Green (NAKAJIMA) | GC 054 | 72054 | Gunmetal Grey Corresponding Mr. Color color : C28 Steel |
| PA 344 | 70344 | German Tanker (White) Corresponding Mr. Color color : C35 IJN Gray (MITSUBISHI) + C1 White | MA 073 | 71073 | Black (Metallic) Corresponding Mr. Color color : C78 Metal Black |
| MA 003 | 71003 | Scarlet Red 1 Corresponding Mr. Color color : C79 Shine Red | MC 170 | 70861 | Glossy Black Corresponding Mr. Color color : C2 Black |
| GC 007 | 72007 | Gold Yellow Corresponding Mr. Color color : C58 Orange Yellow | MA 063 | 71063 | Silver (Metallic) Corresponding Mr. Color color : C8 Silver |
| MA 040 | 71040 | Burnt Umber 1 Corresponding Mr. Color color : C42 Mahogany | PA 312 | 70312 | Leather Belt Corresponding Mr. Color color : C41 Red Brown |
| MC 076 | 70974 | Green Sky Corresponding Mr. Color color : C127 Cockpit Color (NAKAJIMA) | PA 306 | 70306 | Dark Rubber Corresponding Mr. Color color : C137 Tire Black |
| GC 053 | 72053 | Chainmail Silver Corresponding Mr. Color color : C90 Shine Silver | GC 049 | 72049 | Stonewall Grey Corresponding Mr. Color color : C324 Light Gray |