Your 1:18 model of the Japanese Zero is reproduced in the most exquisite detail, with electronics allowing you to recreate aeronautical operations such as take-off and landing, turning, firing and night combat. Lights, machine-gun and propeller sounds bring your legendary fighter plane to life.

In your fourth model pack, you will assemble:

**Stage 27: Cockpit Assembly**

**Stage 28: Left Main Landing Gear Base**

**Stage 29: Left Main Landing Gear Base and Wheel**

**Stage 30: Assembling the Left Main Landing Gear (1)**

**Stage 31: Assembling the Left Main Landing Gear (2)**

**Stage 32: Assembling the Left Wing**

**Stage 33: Attaching a Type 99 Cannon to the Wing**

**Stage 34: Installing the Left Main Motor**

**Stage 35: Assembling the Main Covers**

**Stage 36: Attaching the Landing Gear Covers**
Advice from the experts

Spare screws are included with each part. Occasionally, you may be instructed to keep spare or unused screws for a later stage. Keep these spares in a safe place and label them correctly.

Please make sure you don’t mix up the screws. They look quite similar, but the threads do vary slightly. Using the wrong screws may damage the parts.

When securing parts together using multiple screws, fit each screw loosely to ensure all the parts are correctly aligned before gently tightening them firmly, but not overtight, in the order in which you placed them.

The screwdriver can be magnetised by stroking it with a magnet (fridge magnet, etc.) enabling it to hold the screws and make assembly easier.

If a screw is tight going into a metal part, do not force it as you may shear the head off. Remove it and put a tiny smear of Vaseline, soap or light oil on the thread. That will lubricate it and make it easier to drive home.

During the course of this build, you will receive many pieces that you will assemble immediately – following the instructions in the corresponding stage – and other pieces that you should store safely to one side, for use in future assembly stages.

When gluing parts together, glue may be applied to either of the two parts. Some experts find it easier to apply glue to a hole rather than a pin. Choose a method that works best for you.

It’s a good idea to test fit your parts so that you can check their positioning before gluing.
Stage 27: Cockpit assembly

In this stage we’ll be affixing the instrument panel decals. Then, after attaching the pilot seat and seat adjustment lever to the rear bulkhead we’ll have finished assembling the

Stage 27 Assembly

Cockpit

You will also need: superglue, small dish of water, tissue, cotton bud, tweezers

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>027-01</td>
<td>1</td>
<td>ABS resin</td>
</tr>
<tr>
<td>027-02</td>
<td>1</td>
<td>ABS resin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Die-cast</td>
</tr>
<tr>
<td>027-03</td>
<td>1</td>
<td>Decal</td>
</tr>
</tbody>
</table>
STEP 1

Attaching decals

1. Attach decal 027-03 to the instrument panel assembled in stage 21. Prepare a small dish of water, a tissue, and cotton bud.

2. Float the decal 027-03 in the dish of water with the printed side facing up and wait for about 10 seconds.

3. Remove the decal from the water using tweezers and place it on a tissue to absorb excess water.

4. Slide the decal with your finger and grab the part that comes off the mount with tweezers. If it’s difficult to slide, the glue hasn’t melted, so put it in water for a few seconds and try again.

5. Attach decal 027-03 to the compass in the centre of the instrument panel.

6. Fine-tune the position with a cotton bud so that the compass is in the centre of the decal circle, and absorb excess water.
**STEP 2** Installing the pilot seat and adjustment lever

1. Insert the protrusions of seat 027-02 into the holes on the seat frames 026-03 & 026-04 assembled in stage 26, and glue the lower lugs into the cockpit partition. Then glue the seat adjustment lever 027-01 to the cockpit partition.

**STEP 3** Assembling the cockpit frame

1. Glue the three tabs on the left side frame assembled in stage 25 to the three corresponding notches on the cockpit floor.

2. Glue the two lugs on the instrument panel completed in STEP 1 to the two holes on the left side frame of the cockpit.

**NOTE**

Push the two lugs on the instrument panel (circled right) into the two holes in the left cockpit frame (circled left).
Glue the three tabs on the right side frame assembled in stage 24 to the three notches on the cockpit floor, and glue the two lugs on the instrument panel into the two holes on the right side frame.

Align and glue the holes in the cockpit partition assembled in STEP 2 to the two protrusions on each of the left and right side frames. A little extra glue can be applied to adjoining surfaces in 1–4. Our video series shows you how and demonstrates the gluing technique.

**Click here to watch.**

**STEP 4**

**Wiring everything up**

Pass the cord of the cockpit interior light **023-04** on the right side of the cockpit through the groove on the outside of the frame on the right side of the cockpit.

Pull the tip of the cockpit-light wire forward through the hole under the 7.7mm machine gun magazine.
STEP 5  Attaching the front bulkhead and engine mount

1. Fix the partition wall assembled in stage 19 to the cockpit using the two screws 019-03 that came with stage 19. The machine guns fit into the semi-circular notches at the top of the partition.

2. The machine guns fit into the semi-circular notches at the top of the partition.

3. Insert the connector labelled B1 into the second socket from the left on the board of the 7.7mm machine gun magazine.

4. Pass the wire of the left interior light 025-04 through the groove on the outside of the frame on the left side of the cockpit.

5. Pull the tip of the cockpit-light wire forward through the hole under the 7.7mm machine gun magazine.

6. Insert the connector labeled B2 into the second socket from the right on the board of the 7.7mm machine gun magazine.

Pull the tip of the cockpit-light wire forward through the hole under the 7.7mm machine gun magazine.

Insert the connector labelled B2 into the second socket from the right on the board of the 7.7mm machine gun magazine.
Fit the oil tank **020-03** that came with stage 20 into the partition wall. It does not glue.

Align the pins on the engine mount frame assembled in stage 17 with the four holes on the partition wall and glue them together.

**STAGE COMPLETE**
Stage 28: Left Main Landing Gear Base

In this stage we'll begin assembling the base for the left landing gear base. Setting the position indicator and gear will require a good deal of accuracy and precision.

You will also need: tweezers

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>028-01</td>
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<td>028-03</td>
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<td>ABS resin</td>
</tr>
<tr>
<td>028-04</td>
<td>1</td>
<td>ABS resin</td>
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<tr>
<td>028-05</td>
<td>1</td>
<td>ABS resin</td>
</tr>
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<td>028-06</td>
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<td>ABS resin</td>
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<td>028-07</td>
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<td>028-08</td>
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<td>Plastic</td>
</tr>
<tr>
<td>028-09</td>
<td>1</td>
<td>Plastic</td>
</tr>
</tbody>
</table>
**STEP 1  Assembling the left landing gear base**

1. Fit the gears **028-09** onto the shaft of the shock absorber **028-01**.

2. Fit the bearing **028-07** onto the shaft of the shock absorber **028-01**.

3. Fit part **028-04** onto the shock absorber **028-01**, keeping the shock absorber in a horizontal position.
NOTE

1. Align the pin on the leg position pointer 028-08 with the groove on the shaft retainer 028-03.

2. Fit the gears 028-09 onto the shaft of the shock absorber 028-01.

3. Fit the bearing 028-07 onto the shaft of the shock absorber 028-01.

4. Fit part 028-04 onto the shock absorber 028-01, keeping the shock absorber in a horizontal position.

5. Push 028-02 onto the lug on 028-03 so that the leg position pointer 028-08 does not come off but can still slide within the groove.

AGORA MODELS

A6M ZERO
Keep the leg position pointer 028-08 in the lowest position when fitting.

Fit 028-03 assembled in 5 onto 028-04 assembled in 3. Work with the shock absorber 028-01 in the horizontal position.

Spread the metal fittings attached to the centre of the main landing gear cover 028-06 and fit them into the holes on the shock absorber 028-01. Next, fit the metal fitting attached to the end of the main landing gear cover 028-06 into the L-shaped grooves on the shaft retainer 028-03.
Fit the metal fitting holder 028-05 being careful not to move the metal fittings on the main landing gear cover.

STAGE COMPLETE
Stage 29: Assembling the Left Main Landing Gear Base and Wheel

In this stage we’ll add another gear to the left landing gear base and assemble the wheel as well. Looking at the exquisitely designed landing gear retraction system.

### STAGE 29 PARTS

![Image of Stage 29 parts]

### PARTS LIST

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>029-01</td>
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<tr>
<td>029-02</td>
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<td>Plastic</td>
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<tr>
<td>029-03</td>
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<td>PVC</td>
</tr>
<tr>
<td>029-04</td>
<td>1</td>
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</tr>
<tr>
<td>029-05</td>
<td>1</td>
<td>ABS resin</td>
</tr>
<tr>
<td>029-06</td>
<td>1</td>
<td>ABS resin</td>
</tr>
</tbody>
</table>

You will also need: tweezers
*029-04 will not be used in this stage. Keep it in a safe place until required.*
STEP 1  Assembling the left landing gear

1. Fit the bearing 029-01 onto the shaft of the shock absorber assembly from stage 28.

2. Fit gear 029-02 onto the shaft of the shock absorber.
STEP 2  Assembling the wheel

1. Fit the bearing 029-01 onto the shaft of the shock absorber assembly from stage 28.

2. Fit gear 029-02 onto the shaft of the shock absorber.

Fit and glue wheel parts 029-05 and 029-06.

Fit the tyre 029-03 to the wheel assembled in 1, pulling and tucking the centre ring into the grooves on the wheel.

STAGE COMPLETE
Stage 30: Assembling the Left Main Landing Gear (1)

In this stage we'll be assembling the part of the landing gear which absorbs the actual impact of landing the aircraft. Look sharp as there's lots of small parts to handle here as well as points where it can be difficult to get everything in the right place.

You will also need: superglue, tweezers.
**STEP 1**

**Assembling the left landing gear**

1. Insert the left main landing gear support 030-01 into the spring 030-07.

2. Insert the support assembled in 1 into the base of the left main landing gear assembled in stage 29.

3. Push the parts together, and insert the pin 030-08 into the hole in the base of the left main landing gear.

**NOTE**

- If the pin 030-08 is inserted into the groove on the left main landing gear support 030-01 the support will not come off.

- Insert the pin 030-08 with the smooth end first. Push until the pin is completely inside the hole.
Combine the lower arm **030-04** and the upper arm **030-05** and fix them with pin **030-09**.

Insert the lugs on the lower arm **030-04** of the arm assembled in 4 into the holes on the left main landing gear support **030-01**.

Fit the holes on the upper arm **030-05** onto the tip of the left main landing gear base, and insert the pin **030-10** to secure it in place.

Glue the lugs on the brake line **030-02** to the two holes in the left main landing gear base cover **030-06**.

*NOTE* Insert the left main landing gear support **030-01** into the spring **030-07**. Insert the support assembled in 1 into the base of the left main landing gear assembled in stage 29. Push the parts together, and insert the pin **030-08** into the hole in the base of the left main landing gear. If the pin **030-08** is inserted into the groove on the left main landing gear support **030-01** the support will not come off. Insert the pin **030-08** with the smooth end first. Push until the pin is completely inside the hole.
Glue the 6 lugs on the left main landing gear base cover 030-06 assembled in 7 to the left main landing gear base. Note that the brake line runs on the outside of the third pair of lugs.

Glue the left brake disc 030-03 to the left main landing gear support 030-01, and insert the tip of the brake line 030-02 into the hole on 030-03. Do not glue.

Fit the wheel assembled in stage 29 onto the left brake disc 030-03. Do not glue.

Glue the lugs on the left tyre cover 029-04 to the hole in the left main landing gear support. Be careful not to glue it to the left main landing gear base cover 030-06.

STAGE COMPLETE
Stage 31: Assembling the Left Landing Gear (2)

In this stage we'll finish up assembling the left landing gear.

You will also need: screwdriver.

* 031-01, 031-03, 031-04 will not be used in this stage. Keep them in a safe place.
Fix the metal fitting holder 028-05 assembled in stage 28 using screw 031-02. Check the movement of the landing gear: the gear should turn to lift the landing gear and the wheel should push in. You can watch a video for a demonstration here.

Click here to watch.

STAGE COMPLETE
Stage 32: Assembling the Left Wing

In this stage we'll carry on working on the left wing, inserting gears and adding the wing tip light.

You will also need: screwdriver, tweezers.
*032-01 & 032-06 will not be used in this stage. Keep them in a safe place.
STEP 1 Assembling the gear complex

Insert the shaft 032-05 into the gear 032-03. Keep it in a safe place until required in a later stage.

STEP 2 Attaching the wing tip light (L)

Fit the wing tip light 032-02 onto the wing frame 031-01 that came with stage 31.

Fix the wing tip light 032-02 in place using a 032-07 screw.
STEP 1
Assembling the gear complex

STEP 2
Attaching the wing tip light (L)

- Insert the shaft 032-03 into the gear 032-03. Keep it in a safe place until required in a later stage.

- Pass the LED wire 032-04 through the wing frame and insert the LED at the end into the wing tip light 032-02. The wire runs under the frame in four places, shown circled in the diagram below. Check that the wire runs around any screw holes.

- This process can also be done in reverse, inserting the LED into the wing tip light before fixing the wire in the correct positions on the wing.

- Fix the wing tip light 032-02 onto the wing frame 031-01 that came with stage 31.

- Fix the two LED boards 032-04 in place using 2 x screws 032-07.

- The two LED boards 032-04 should be attached with the writing facing upwards.

STAGE COMPLETE
Stage 33: Attaching a Type 99 mkII 20 mm Machine Gun

In this stage we’ll be installing the landing gear limit switch as well as assembling the Type 99 mkII 20 mm machine gun and then attaching this to the landing gear frame.

Stage 33 Assembly
Type 99 mkII 20 mm Machine Gun

STAGE 33 PARTS

PARTS LIST

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>033-01</td>
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<td>ABS resin</td>
</tr>
<tr>
<td>033-02</td>
<td>1</td>
<td>LED</td>
</tr>
<tr>
<td>033-03</td>
<td>1</td>
<td>Circuit board</td>
</tr>
<tr>
<td>033-04</td>
<td>4</td>
<td>Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1 spare)</td>
</tr>
</tbody>
</table>

You will also need: screwdriver, long-nose pliers
STEP 1  Attaching the landing gear switch

Fix the switch 033-03 to the frame 031-01 using 2 x 033-04 screws. Feed the end of the switch wire through the gap to the opposite side of the wing.

STEP 2  Assembling and attaching the Type 99 mkII 20 mm machine gun

Insert the LED 033-02 into the 20-mm machine gun 033-01, pushing it in place gently but firmly.

NOTE
Before attaching the LED, hold the area just below the LED and gently bend the wire 90 degrees to create the correct angle for installation.
Lower the machine gun 033-01 assembled in 1 onto the main wing frame 031-01. Feed the wire from LED 033-02 through the same hole as the switch 033-03.

Fix the machine gun 033-01 in place using an 033-04 screw. Check that the wire is routed around any screw holes and fixings.

STAGE COMPLETE
Stage 34: Attaching the Left Landing Gear & Motor

In this stage we’ll attach the left landing gear as well as the motor (which drives this side forward) to the left wing frame.

You will also need: screwdriver.

### STAGE 34 PARTS

![Left Landing Gear & Motor](image)

### PARTS LIST

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>034-01</td>
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<td>Motor</td>
</tr>
<tr>
<td>034-02</td>
<td>1</td>
<td>Plastic</td>
</tr>
</tbody>
</table>
**STEP 1**

Attaching the left landing gear and motor

1. Fit the landing gear assembled in stage 31 to the main wing frame.

2. Secure the landing gear in place using the screws 031-03 & 031-04 that came with stage 31.

3. Fit the gear 034-02 to the motor 034-01. Pay attention to the orientation of the gear.

4. Fit the motor assembled in 3 to the wing frame. Pass the wire through the same hole in the wing as the previous two wires.

**NOTE**

Make sure the landing gear and motor gear properly engage when installing these parts.
STEP 1

Secure the landing gear in place using the screws 031-03 & 031-04 that came with stage 31.

Fit the motor assembled in stage 3 to the wing frame. Pass the wire through the same hole in the wing as the previous two wires.

Fit the gear and shaft assembled in stage 32.

Fit the cover 032-01 that came with stage 32. Fix the cover in place using four screws 032-06 that came with stage 32.

NOTE

Make sure the landing gear and motor gear properly engage when installing these parts.

STAGE COMPLETE

Fit the gear and shaft assembled in stage 32.

Fit the cover 032-01 that came with stage 32.

Fix the cover in place using four screws 032-06 that came with stage 32.
Stage 35: Assembling the Landing Gear Covers

In this stage we’ll be assembling the cover parts for the landing gear when retracted into the wing when not in use.

**STAGE 35 PARTS**

**PARTS LIST**

<table>
<thead>
<tr>
<th>PART</th>
<th>No.</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
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<tr>
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<tr>
<td>035-03</td>
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<td>ABS</td>
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<tr>
<td>035-04</td>
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</tr>
<tr>
<td>035-05</td>
<td>2</td>
<td>ABS</td>
</tr>
<tr>
<td>035-06</td>
<td>2</td>
<td>Steel</td>
</tr>
<tr>
<td>035-07</td>
<td>2</td>
<td>Steel</td>
</tr>
<tr>
<td>035-08</td>
<td>5</td>
<td>Steel</td>
</tr>
</tbody>
</table>

You will also need: screwdriver.

* 035-01, 035-02, 035-08 will not be used in this stage. Keep them in a safe place until required in a later stage.
**STEP 1**

Assembling the right landing gear

1. **Attach the metal fittings 035-06 & 035-07 to the right landing gear cover.** Study the picture to check you have the correct orientation: the short end of 035-03 faces the front, and the short arm of 035-06 faces the front.

2. **Fit the connector 035-05 onto the metal fitting 035-06.**

   *NOTE*

   It is easier to fit connector 035-05 by sliding it on diagonally from the corner.
STEP 2  Assembling the left cover

1. Attach the metal fittings 035-06 & 035-07 to the left landing gear cover 035-04. The short end of 035-04 faces the front, and the short arm of 035-06 attaches to the front end.

2. Fit the connector 035-05 onto the metal fitting 035-06.

STAGE COMPLETE
Stage 36: Attaching the Landing Gear Covers and Wing Frame to the Wing Base Frame

In this stage we'll be attaching the landing gear covers and left wing frame to the wing base frame. We'll also be attaching the carburettor and supercharger.

You will also need: screwdriver.
**STEP 1**

**Attaching the left landing gear cover**

Fit connector **035-05** and metal fittings **035-07** that are attached to the left landing gear cover assembled in stage 35 to the main wing base frame **036-01**.

Attach part **035-02** (left).

**NOTE**

Support units **035-01** & **035-02** are marked left (L) and right (R). Check you have the correct part.

Fix part **035-02** in place using two screws **035-08** that came with stage 35.
STEP 2

Attaching the right landing gear cover

1. Fit connector 035-05 and metal fittings 035-07 that are attached to the right landing gear cover assembled in stage 35 to the main wing base frame 036-01.

2. Attach support unit 035-01 (right).

3. Fix support unit 035-01 in place using two screws 035-08 that came with stage 35.
**STEP 3**  Attaching the wing frame

1. Align the four raised screw holes.

2. Align the left main wing frame assembled in stage 34 with the main wing base frame 036-01 assembled in STEP 2.

Fix the main wing frame in place using four 036-02 screws.
STEP 4  Installing the carburettor and supercharger

1. Fit the carburettor and supercharger unit assembled in stage 15 to the main base frame 036-01.

2. Secure in place using three 036-02 screws.

STAGE COMPLETE