



Pack 06 | Build Instructions

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 sixth model pack, you will assemble:

STAGE 46: ATTACHING THE TYPE 99 MKII 20 MM MACHINE GUN TO THE RIGHT LANDING GEAR

STAGE 47: ATTACHING THE RIGHT LANDING GEAR AND MOTOR

STAGE 48: INSTALLING THE RIGHT AILERON

STAGE 49: INSTALLING RIGHT WING SUPPORT FITTINGS, THE EXTERNAL PANEL FRAME AND THE COCKPIT STAGE 50: ASSEMBLING THE TAIL GEAR RETRACTION MECHANISM

STAGE 51: CHECKING THE ELEVATOR SERVOMOTOR

STAGE 52: ASSEMBLING THE RIGHT LANDING GEAR (1)

STAGE 53: TESTING THE SERVOMOTOR AND ASSEMBLING THE TAIL GEAR RETRACTION MECHANISM (3)







There are excellent videos showing how to build the Zero <u>here</u>.

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 asier 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.

Not suitable for children under the age of 14. This product is not a toy and is not designed for use in play. Keep the parts out of the reach of small children. Some parts may have sharp edges. Please handle them with care.



Stage 46: Attaching the Type 99 Mkll 20 mm Machine Gun to the Right Landing Gear

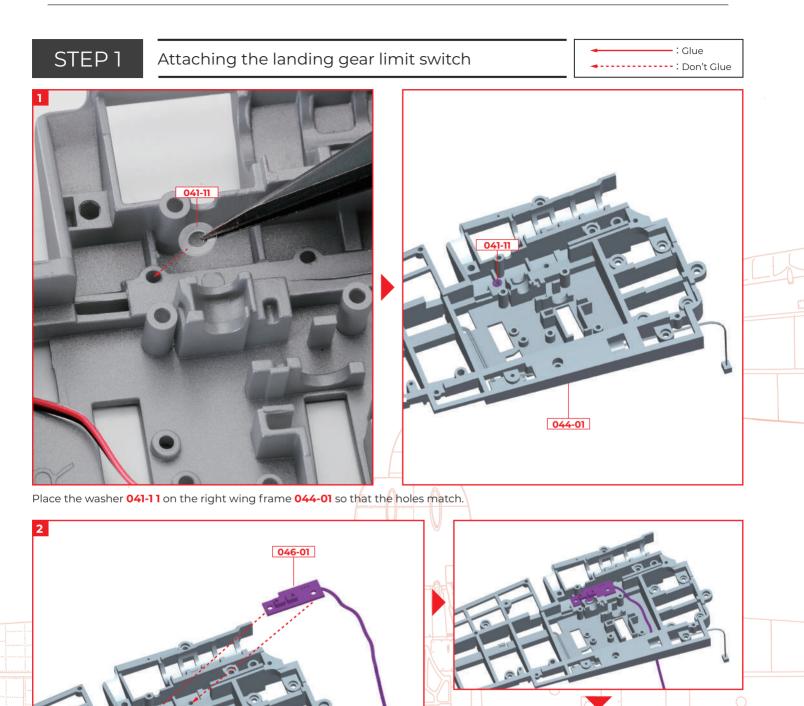
Stage 46 Assembly

Landing Gear & Machine Gun

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

STAGE 46 PARTS		PARTS LIST			
			PART	No.	MATERIAL
046-01	046-02		046-01	1	Switch board
			046-02	1	LED
			046-03	4 (1 spare)	Steel
046-03	046-04		046-04	1	ABS resin
Constant Con					
You will also need: tweezers, screwdriver,	needle-nose pliers				

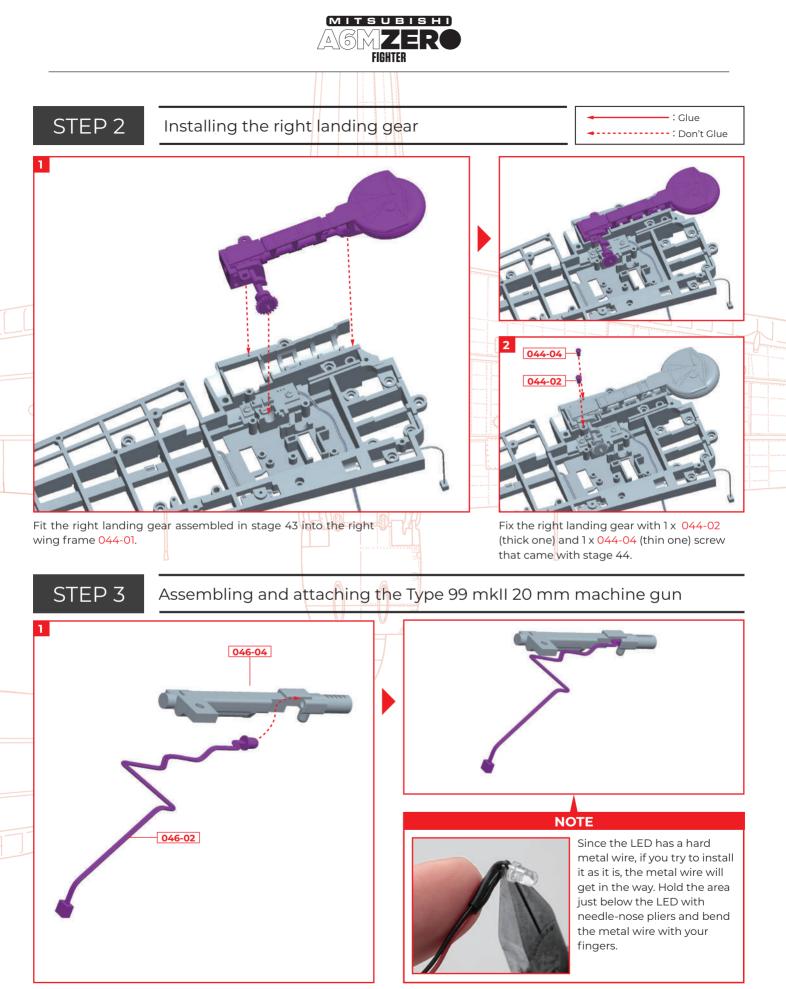




Place the right landing gear limit switch 046-01 on the right wing frame 044-01, and fix it with two screws 046-03. The cord of the switch 046-01 should be fed out through the hole of the wing frame 044-01. The screw on the left is fixed by sandwiching the washer, so be careful not to shift the washer 041-11.

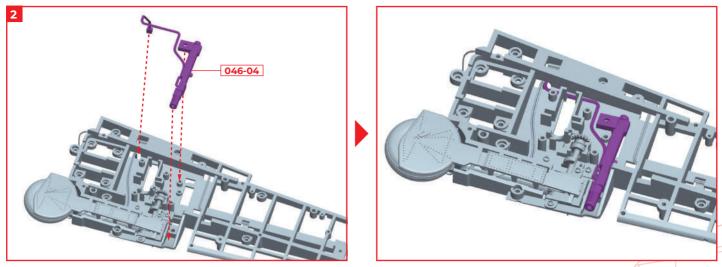
046-03

044-01

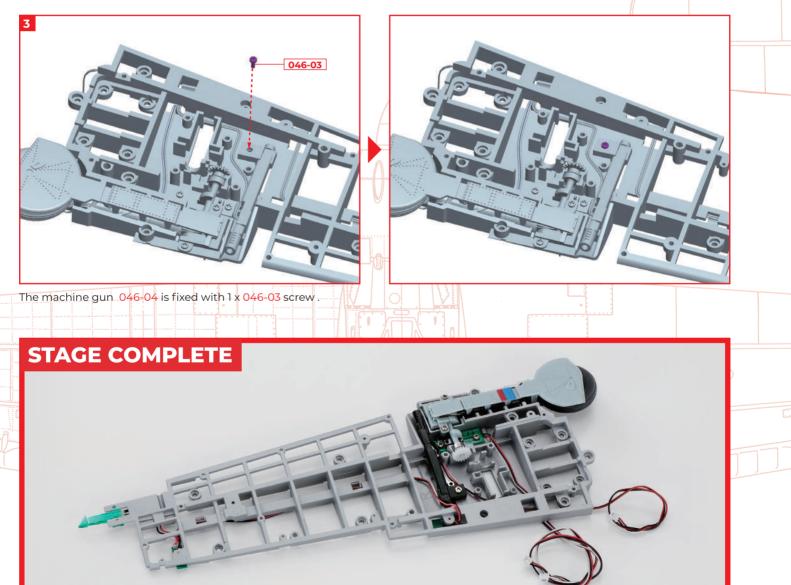


Insert LED 046-02 into the Type 99 20-millimeter machine gun (right) 046-04.





The machine gun (right) 046-04 assembled in 1 is installed in the right main wing frame 044-01. The wire of LED 046-02 should be fed through the same hole as the wire of the right landing gear limit switch 046-01.





Stage 47: Attaching the Right Landing Gear and Motor

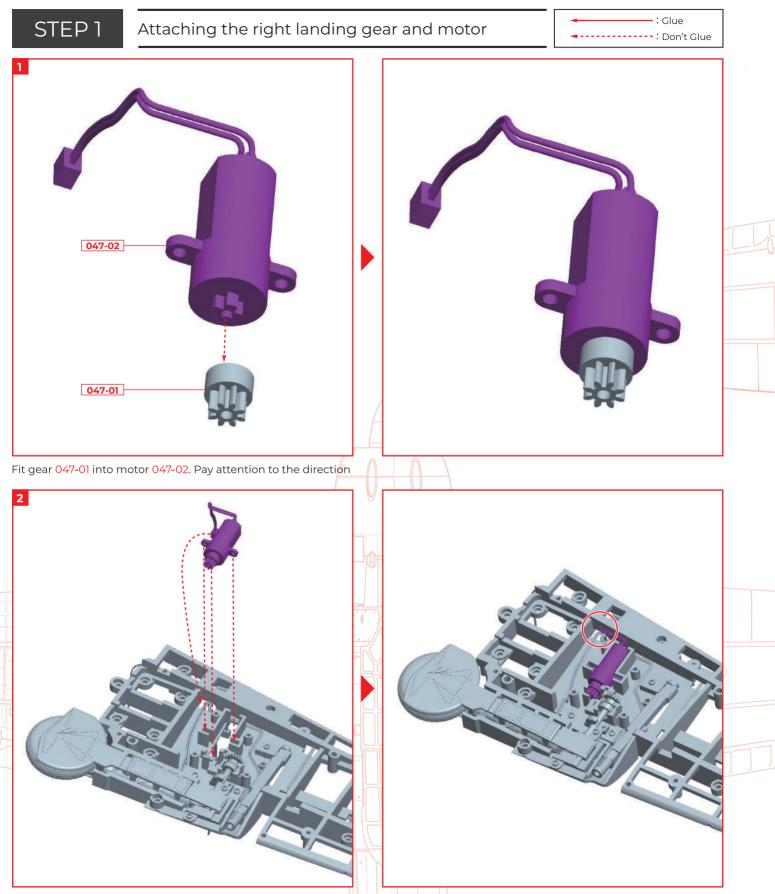
Stage 47 Assembly

Right Landing Gear Motor

In this stage we'll attach the right landing gear as well as the motor (which drives this side forward) to the left wing frame. Be careful when installing the gears and make sure the motor gears properly engage.

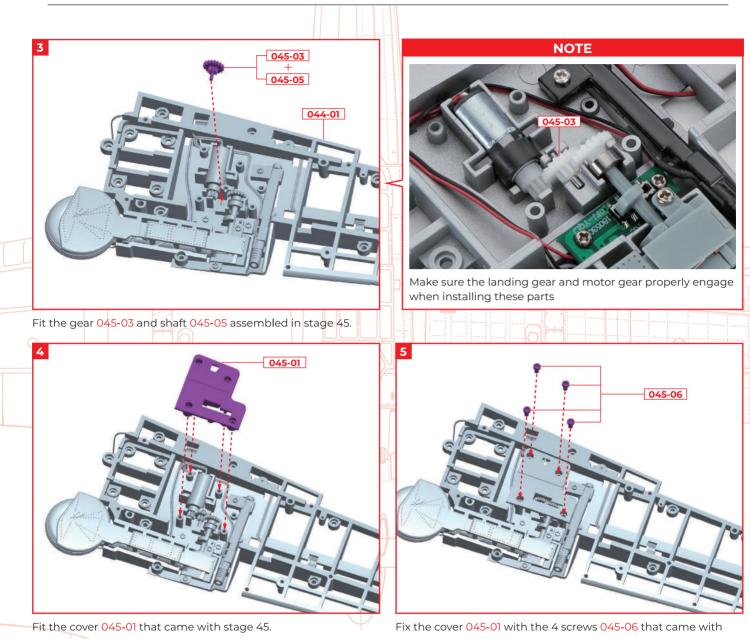
STAGE 47 PARTS		PARTS LIST		
		PART	No.	MATERIAL
047-01		047-01	1	Plastic
0		047-02	1	Motor
Other OL Other OL				

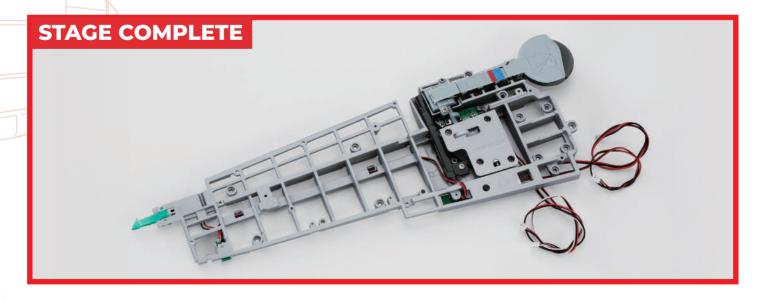




Fit the motor assembled in 1 into the right wing frame 044-01 assembled in stage 46. Pass the motor wire through the circled part.









Stage 48: Installing the Right Aileron

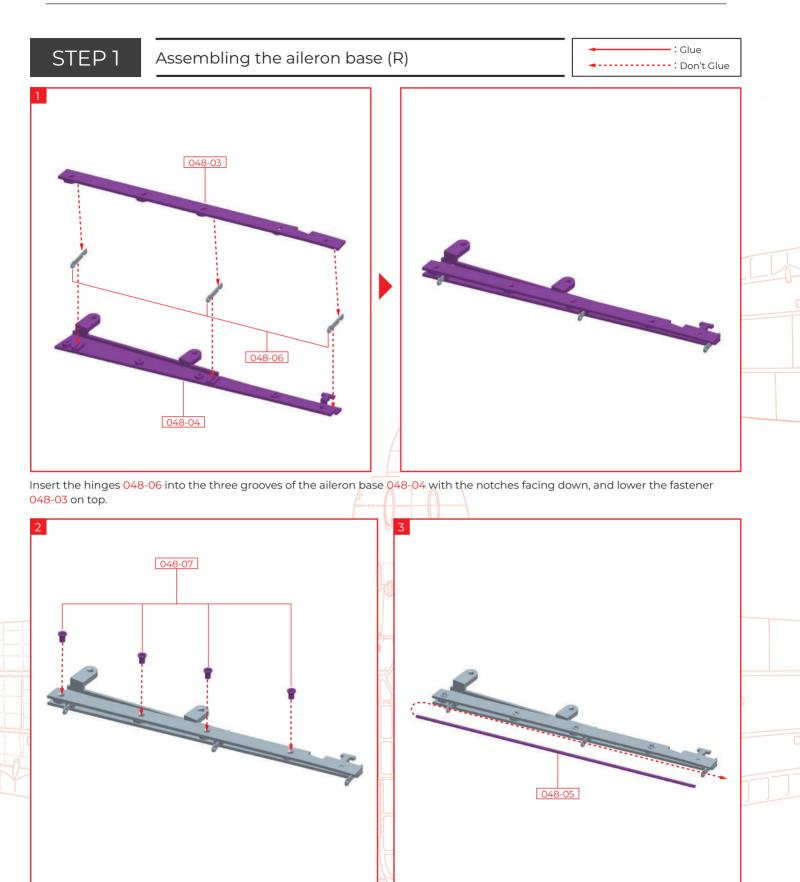
Stage 48 Assembly

Aileron

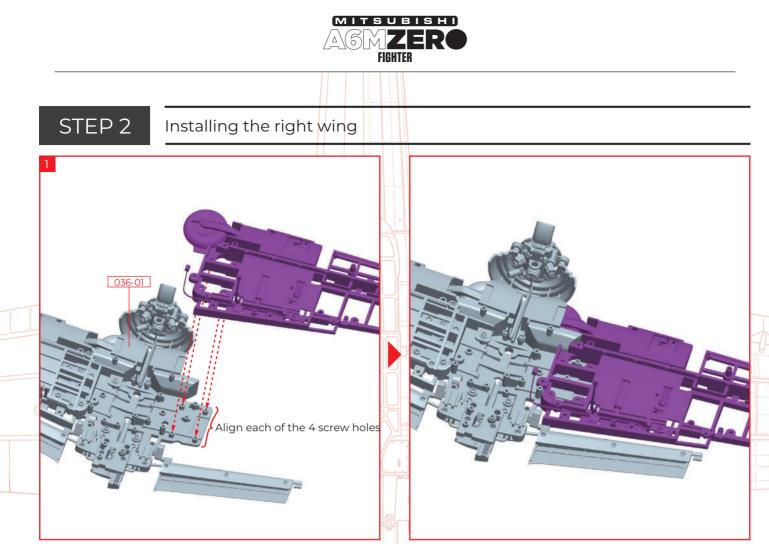
In this stage we'll be installing the right aileron. Not inserting or fitting small parts properly or having them in a skewed position means the model won't work later.

048-01 048-05 048-02 1 048-02 048-03 048-03 048-03 1 048-04 048-07 048-05 1 1 048-04 048-05 1 1 1	PARTS LIST		
048-01 048-05 048-02 1 048-02 048-06 048-03 1 048-03 048-07 048-07 048-05 1 048-04 048-05 1 048-05 1	MATERIAL		
048-02 048-06 048-03 1 048-03 048-07 048-07 1 048-04 048-05 1	ABS resin		
048-02 048-03 1 048-03 048-07 048-04 1 048-04 048-05 1	ABS resin		
	ABS resin		
	ABS resin		
	Steel		
	Steel		
ou will also need: screwdriver, tweezers, superglue.	e) Steel		

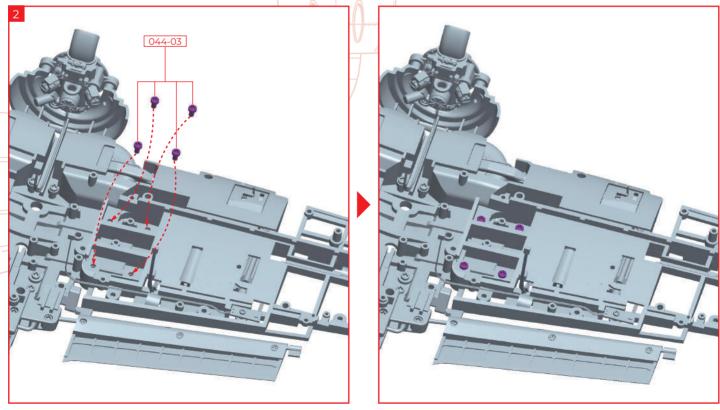




Fix the fastener 048-03 to the aileron base 048-04 with 4 x screws 048-07. Pass shaft 048-05 through the holes in hinges 048-06.



Fit the right wing assembled in stage 47 into the right side of the main wing base frame 036-01 of the body to which the left wing was attached in stage 40.

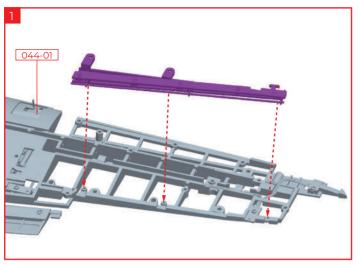


Fix the right wing with the 4 screws 044-03 that came with stage 44.

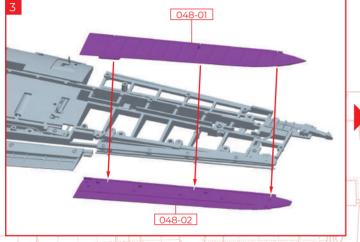


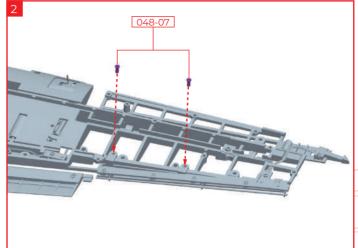


Installing the right aileron

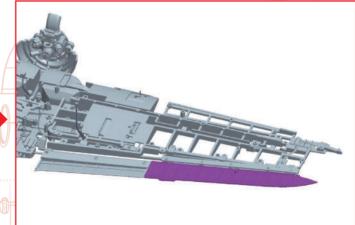


Fit the aileron base assembled in STEP 1 into the right wing frame 044-01.

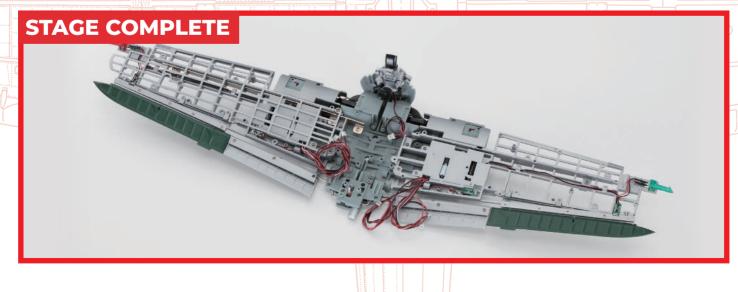




Fix the aileron base in place with 2 x screws 048-07.



Apply a small amount of superglue to the 10 lugs on the aileron underside 048-02 (see stage 39 "STEP 2 Installing the aileron") and attach to the aileron base in 2. Place the shaft 048-05 and the hinges 048-06 in the grooves and then lower the upper surface of the aileron 048-01 on top, squeezing the glued lugs into the corresponding recesses to fix.





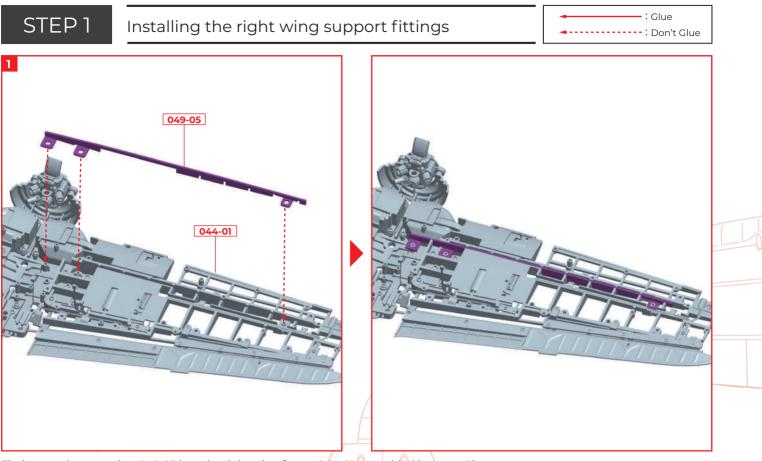
Stage 49: Installing Right Wing Support Fittings, the External Panel Frame and the Cockpit

In this stage we'll be installing support fittings for the left wing as well as the frame we'll attach the external panels to later. We'll also attach the cockpit to the wing main frames.

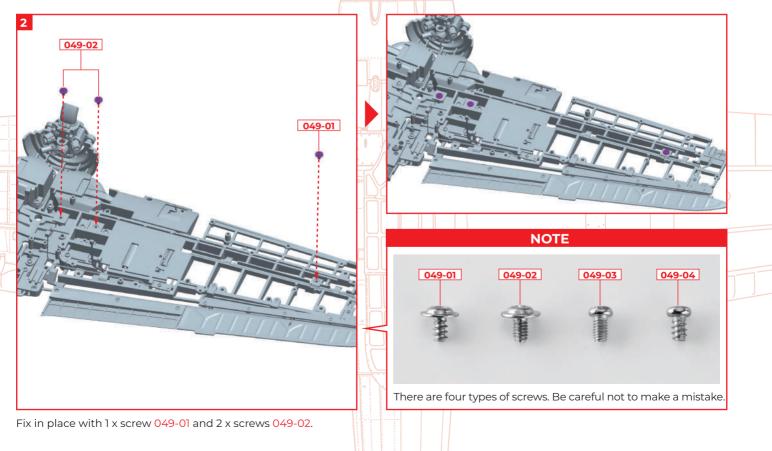


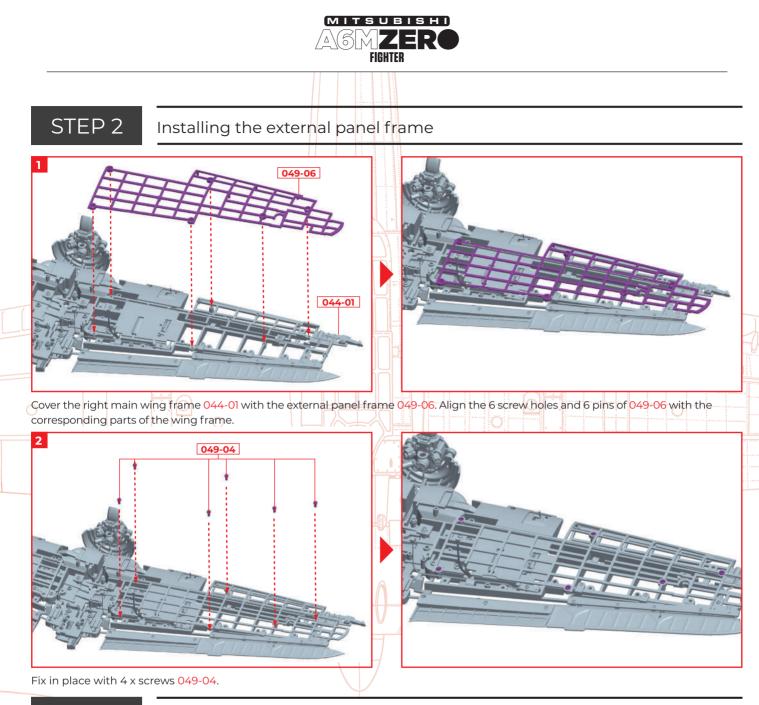
STAGE 49 PARTS		PARTS LIST		
		PART	No.	MATERIAL
		049-01	2 (1 spare)	Steel
049-02 049-04		049-02	3 (1 spare)	Steel
		049-03	5 (1 spare)	Steel
e		049-04	7 (1 spare)	Steel
049-06		049-05	1	Steel
You will also need: screwdriver, tweeers.		049-06	1	ABS resin





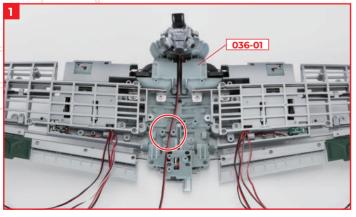
Fit the metal support bar 049-05 into the right wing frame 044-01 assembled in stage 48.



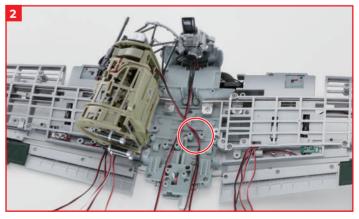




Installing the cockpit

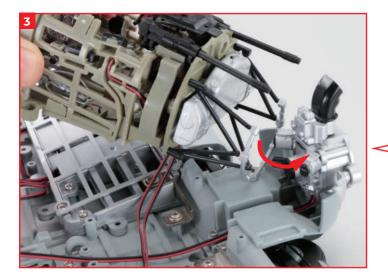


Extend the wire of connector 015-06 from the carburettor and supercharger unit attached to the wing base frame 036-01 to the rear and pass it between the two cylinders on the left side of the wing base frame 036-01.



Extend the wire of the machine gun magazine circuit board 020-01 from the cockpit assembled in stage 27 backward and pass it between the two cylinders on the right side of the main wing base frame 036-01.

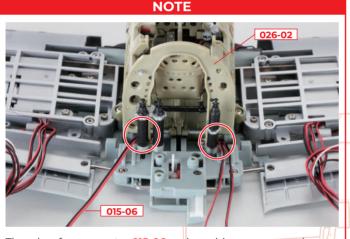




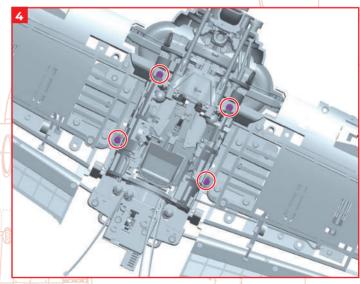


If there is a gap between the main wing base frame and the silver frame at the tip of the cockpit, the wire of connector 015-06 is caught, so insert it by pressing it against the front partition wall with tweezers.

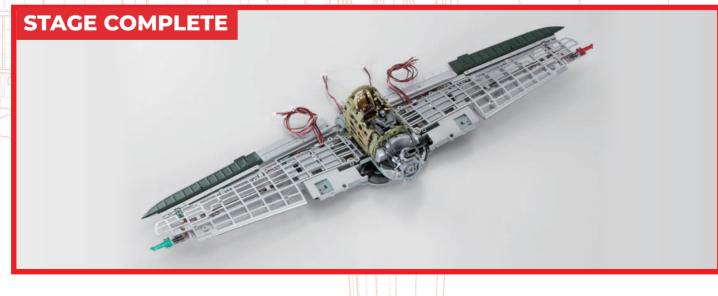
Insert the cockpit so that the carburettor and supercharger of the main wing base frame 036-01 can be inserted into the silver frame at the tip of the cockpit. The black cylindrical part on the left back of the carburettor and supercharger gets in the way, so it's a good idea to insert it diagonally from the left back.



The wires for connector 015-06 and machine gun magazine circuit board 020-01 should pass outside the cockpit rear bulkhead 026-02.



Fix the cockpit in place with 4 x screws 049-03.





Stage 50: Assembling the Tail Gear Retraction Mechanism

Stage 50 Assembly

Tail Gear Retraction Mechanism The A6M Zero Type 52 was designed such that when in flight both the main and rear landing gear would retract into the body of the plane, coming back out for landings. In this stage we'll assemble the gearbox for the tail gear retraction mechanism, so make sure the gears are facing in the right direction when working through those steps.

-	STAGE 50 PARTS		PARTS LIS		
		_			
			PART	No.	
	050-01 050-02		050-01	1	
			050-02	1	
			050-03	1	
77			050-04	1	
	050-03 050-06		050-05	1	
	050-04 050-05		050-06	1	
			050-07	1	
	050-07 050-08 050-09		050-08	3 (1 spare)	
	You will also need: screwdriver, tweezers.		050-09	2 (1 spare)	

ST

MATERIAL

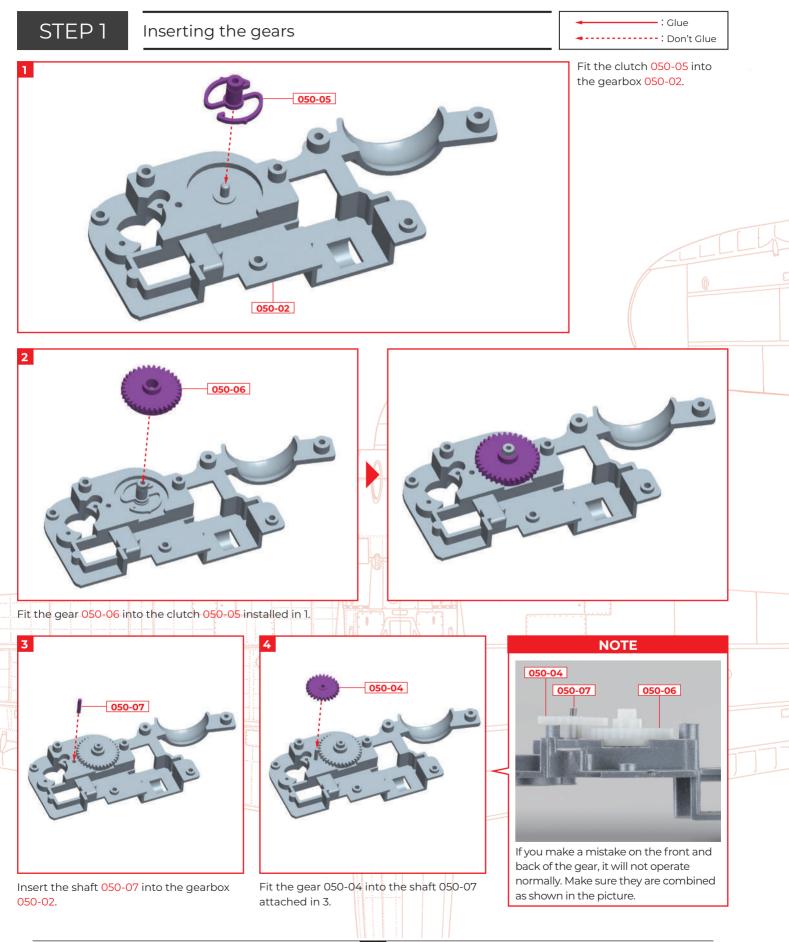
ABS resin Plastic Plastic

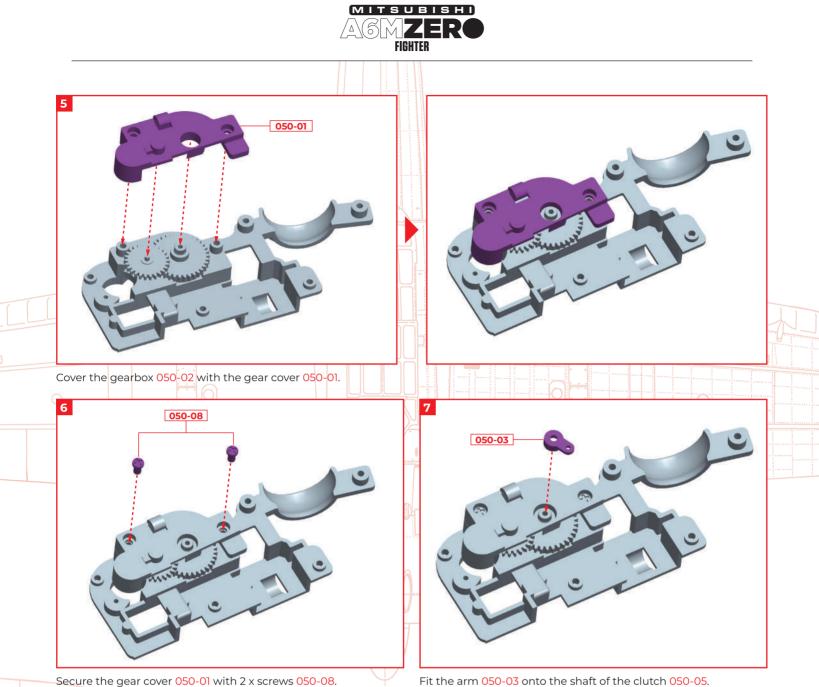
> Plastic Plastic

> > Steel

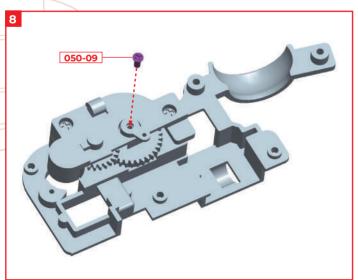
Steel



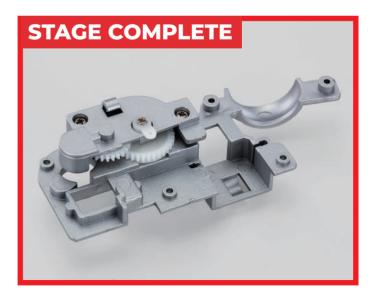








Fix the arm 050-03 with 1 x screw 050-09.





Stage 51: Assembling the Tail Gear Retraction Mechanism (2)

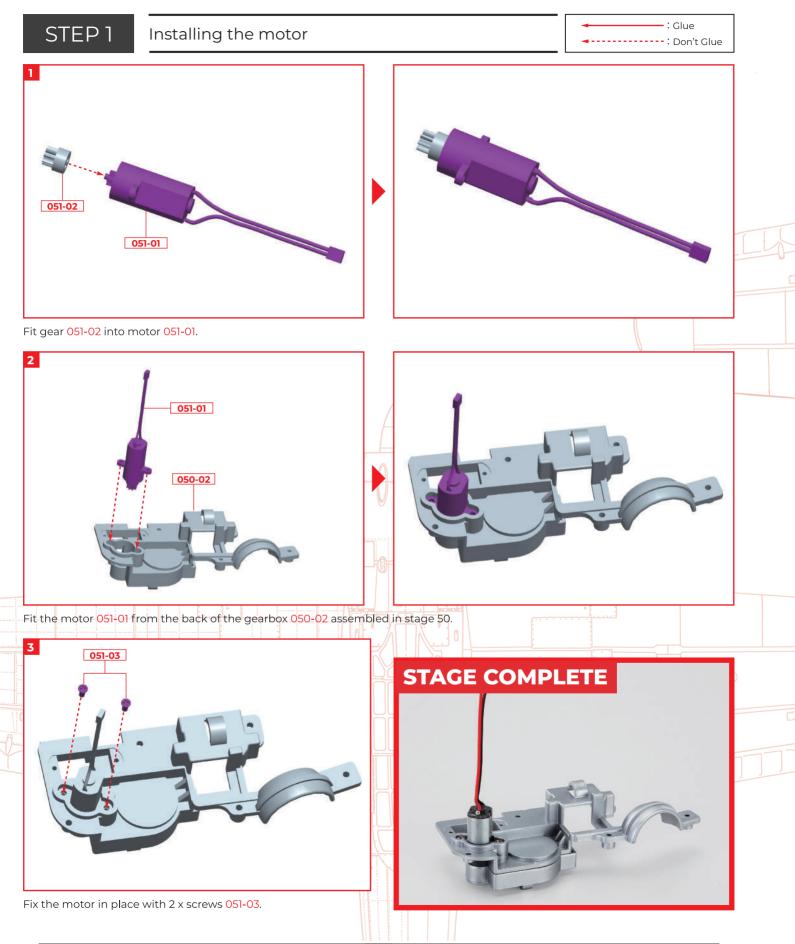
Stage 51 Assembly

Elevator Servomotor

In this stage we'll place the motor in the gearbox we assembled last time during stage 50. Make sure the gearbox and motor gears properly mesh.

STAGE 51 PARTS	PAF	RTS L	IST
	PART	No.	MATERIAL
051-01	051-01	ı	Motor
	051-02	1	Plastic
051-02 051-03	051-03	3 (1 spare)	Steel
You will also need: screwdriver, tweezers.			







Stage 52: Checking the Elevator Servomotor

Stage 52 Assembly

Elevator Servomotor

In this stage we'll prepare the servomotor. Make sure you've got the correct number of screws and that these are the right shape, ready for use in the next stage.

STAGE 52 PARTS	ARTS PARTS LIST			
		PART	No.	MATERIAL
		052-01	1	Servomotor
		052-02	1	Plastic
		052-03	3 (1 spare)	Steel
		052-04	2 (1 spare)	Steel
There is no assembly in this stage. Unpack your parts and move straight on to stage 53.				



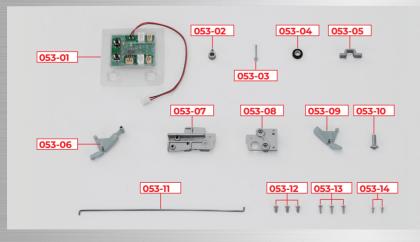
Stage 53: Assembling the Tail Gear Retraction Mechanism (3)

Stage 53 Assembly

Tail Gear Retraction Mechanism

In this stage we'll carry on assembling the tail gear retraction mechanism.

STAGE 53 PARTS



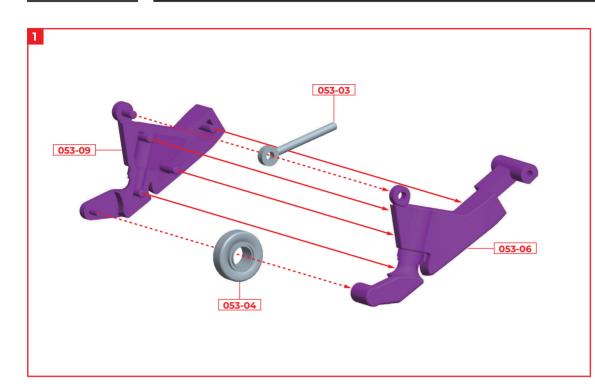
You will also need: screwdriver, tweezers, 3 x AAA batteries. *053-01 & 053-11 will be used in a later stage, so keep in a safe place until required.

	PARTS LIST							
	PART	No.	MATERIAL					
	053-01	1	Tester					
	053-02	1	ABS resin					
	053-03	1	ABS resin					
	053-04	1	ABS resin					
	053-05	1	ABS resin					
	053-06	1	Die-cast					
	053-07	1	ABS resin					
	053-08	1	ABS resin					
	053-09	1	Die-cast					
	053-10	1	ABS resin					
	053-11	1	Steel					
	053-12	3 (1 spare)	Steel					
	053-13	3 (1 spare)	Steel					
	053-14	2 (1 spare)	Steel					

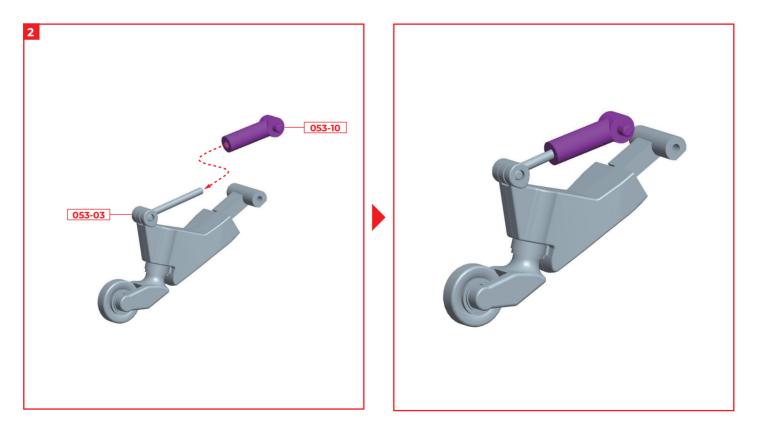




Tail gear assembly

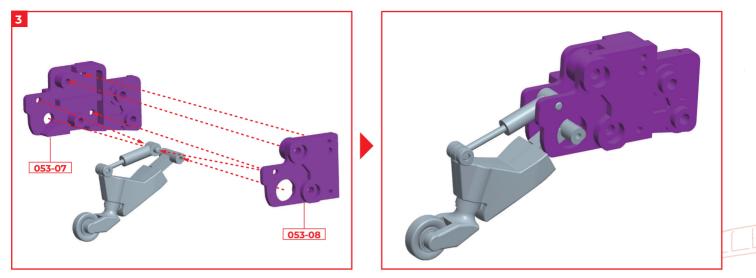


Fit the tyre 053-04 into the tail gear support column (R) 053-06, and fit the piston rod 053-03 into the tail gear support column (L) 053-09. Glue the left and right tail gear struts 053-06 and 053-09 with superglue. Tyre 053-04 and piston rod 053-03 are movable, so be careful not to glue them together.

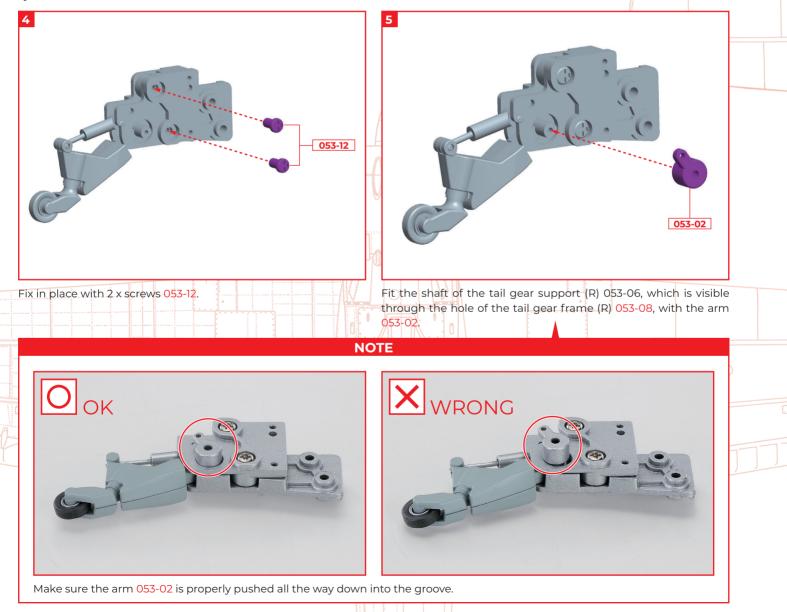


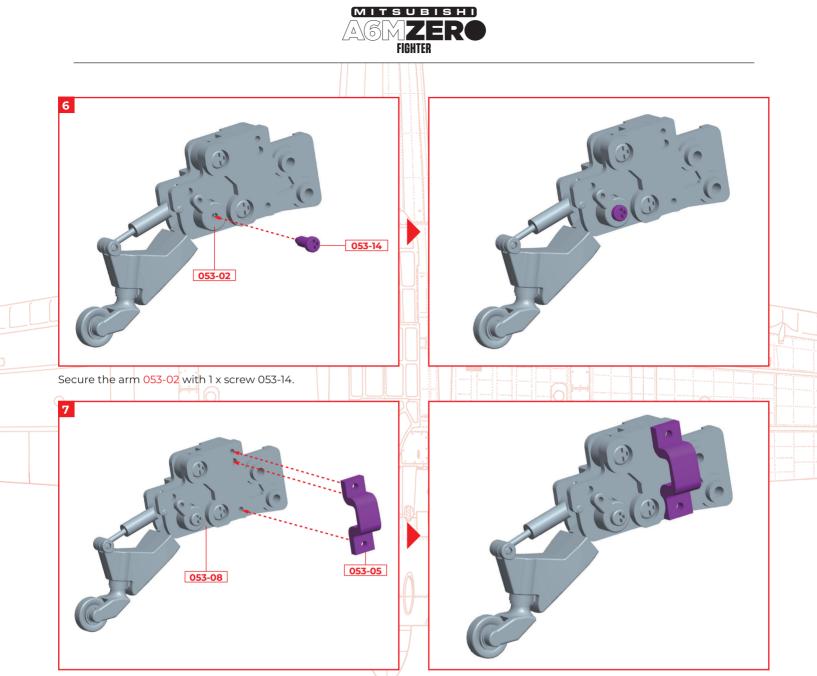
Fit the cylinder tube 053-10 into the piston rod 053-03. Do not glue.



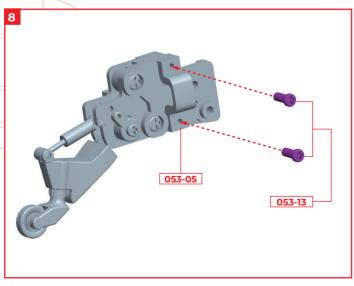


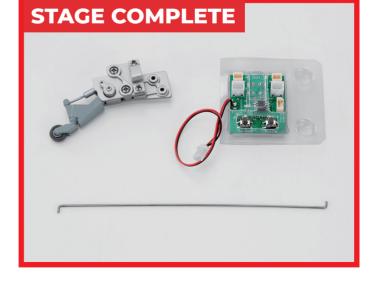
Fit the tail gear frame (L) 053-07 and the tail gear frame (R) 053-08 with the left and right tail gear columns 053-06, 053-09 and the cylinder tube 053-10 in between.





Align the pin of 053-05 and the two screw holes on the tail gear frame (R) 053-08 and fit it.





Fix 053-05 with 2 x screws 053-13.