



Cosmo

SPORT



PACK 02

DEAGOSTINI
MODELSPACE™
www.model-space.com



Cosmo **SPORT**

STAGE

6	THE FRONT SUSPENSION – 1
7	THE FRONT SUSPENSION – 2
8	THE SECOND BRAKE
9	THE TIE ROD
10	THE BATTERY HOLDER
11	THE SECOND WHEEL
12	THE CONTROL UNIT
13	THE ROTOR HOUSING – R
14	THE INTERMEDIATE HOUSING



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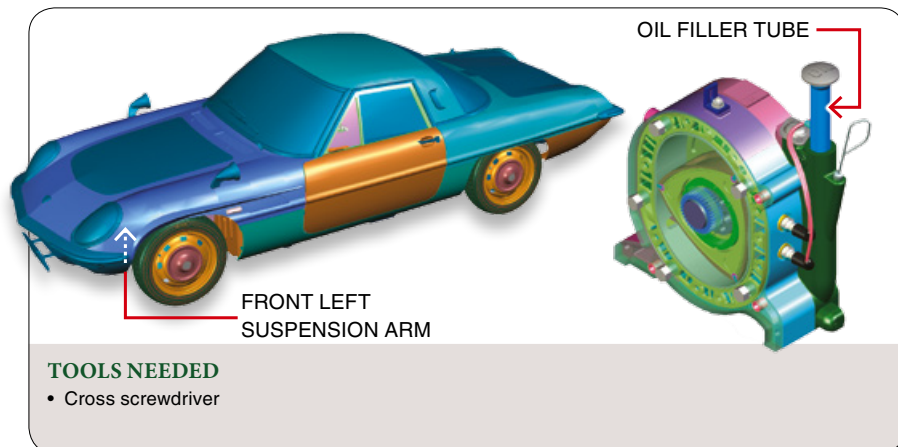
NOT SUITABLE FOR CHILDREN UNDER THE AGE OF 14.

THIS PRODUCT IS NOT A TOY AND MUST BE USED UNDER
THE SUPERVISION OF AN ADULT.

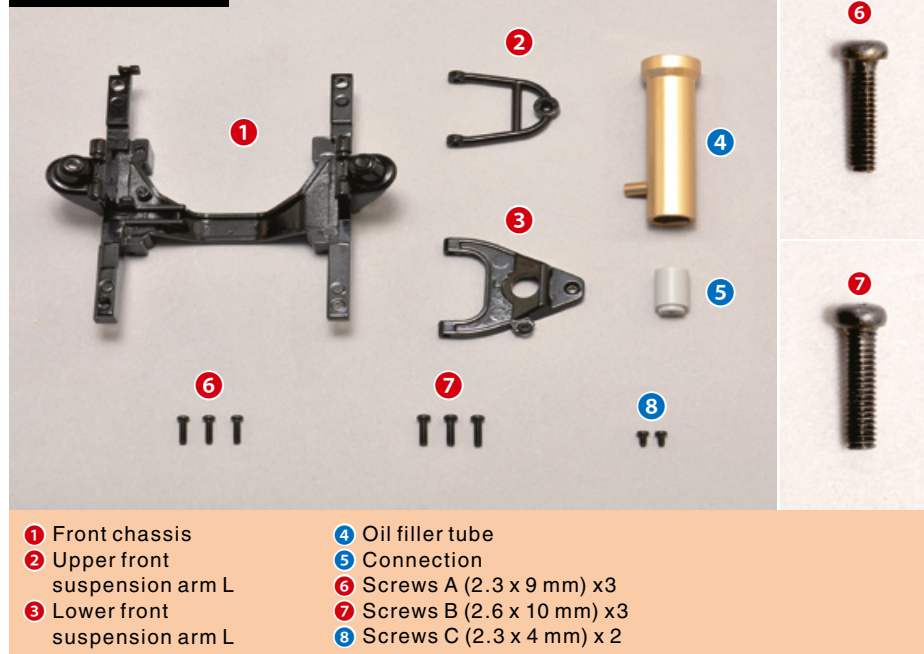
ITEMS MAY VARY FROM THOSE SHOWN.

6 THE FRONT SUSPENSION – 1

In this stage you will assemble the front left suspension arm of your 1:8 scale model of the Mazda Cosmo Sport, and install the oil filler tube of the 1:2 scale rotary engine.



LIST OF PIECES

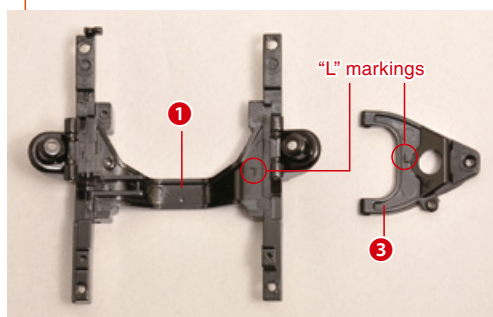


• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

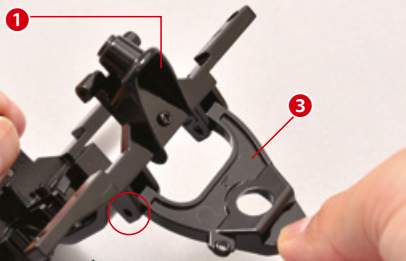
1 The lower left front suspension arm



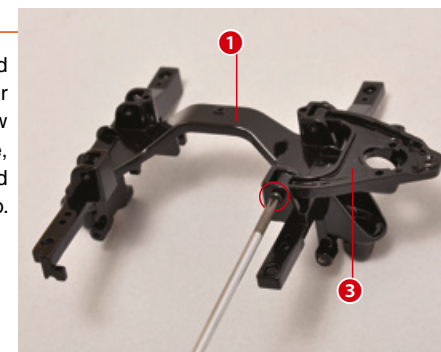
Place the front chassis and the lower left front suspension arm on your work surface.

Join the two pieces as shown in the photo.

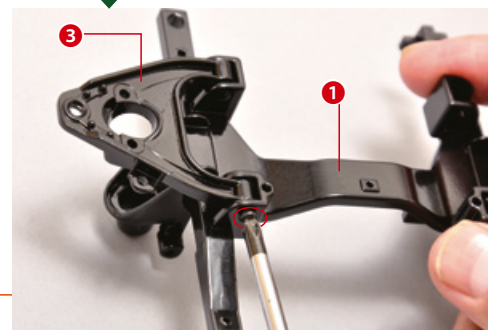
Align the holes in the two pieces.



Now insert and tighten another type B screw in the opposite hole, circled in red in the photo.



Secure the pieces with one type B screw, using the hole circled in the photo.





COSMO SPORT

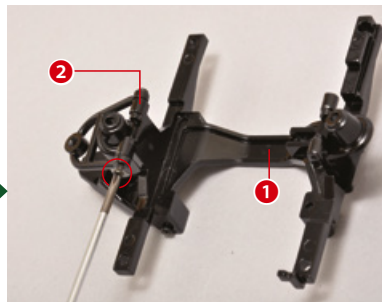
Step

2

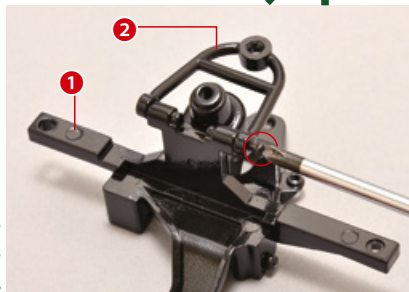
The upper left front suspension arm



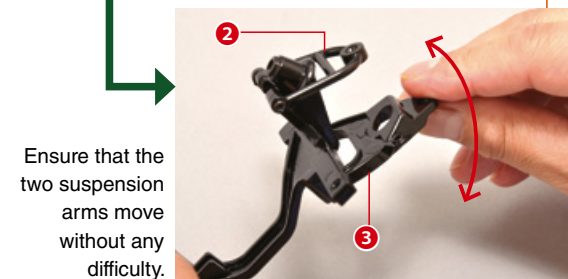
Now attach the upper left front suspension arm by aligning the elements shown in the photo.



Insert and tighten another type A screw in the other end, as shown in the photo.



Secure the pieces with one type A screw.



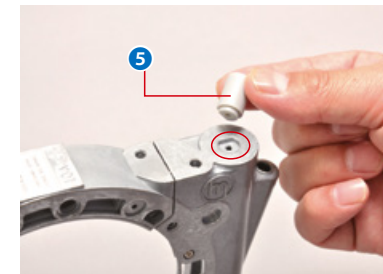
Ensure that the two suspension arms move without any difficulty.

ROTARY ENGINE

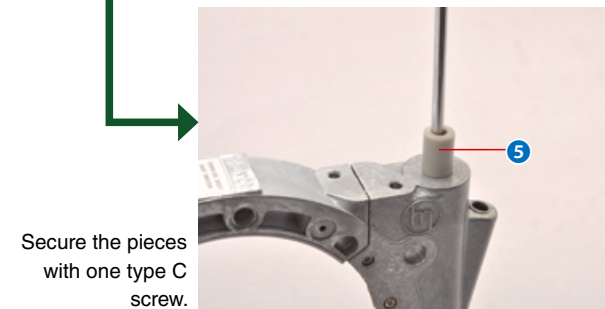
Step

3

The oil filler tube - 1



Get the rotor housing you assembled previously and attach the connection of the oil filler tube as shown in the photo.



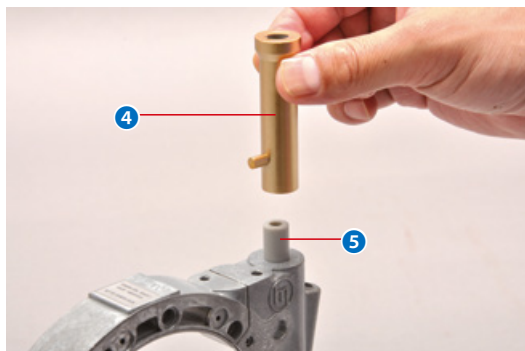
Secure the pieces with one type C screw.

ROTARY ENGINE

Step

4

The oil filler tube - 2

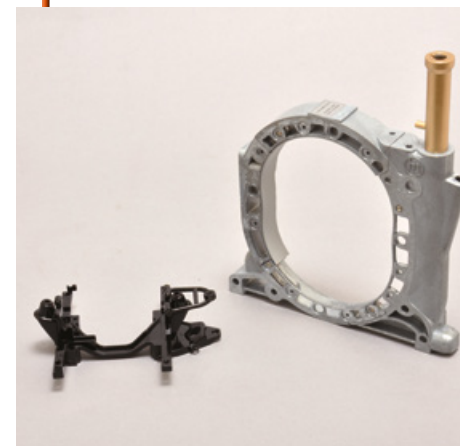


Slide the oil filler tube onto the connection, ensuring that the pieces are facing the same way as those in the photo.

Press the oil filler tube all the way down.



FINAL RESULT



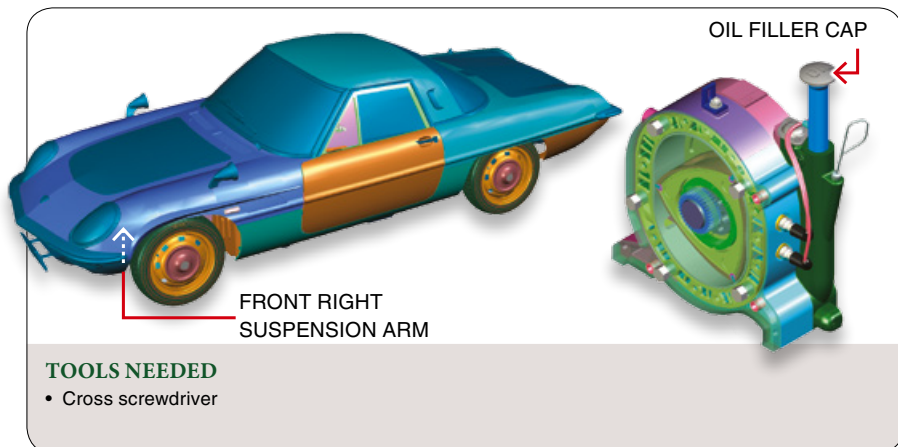
This is the result of this satisfying assembly session. Keep the parts in a safe place with all the other pieces.

The next stage

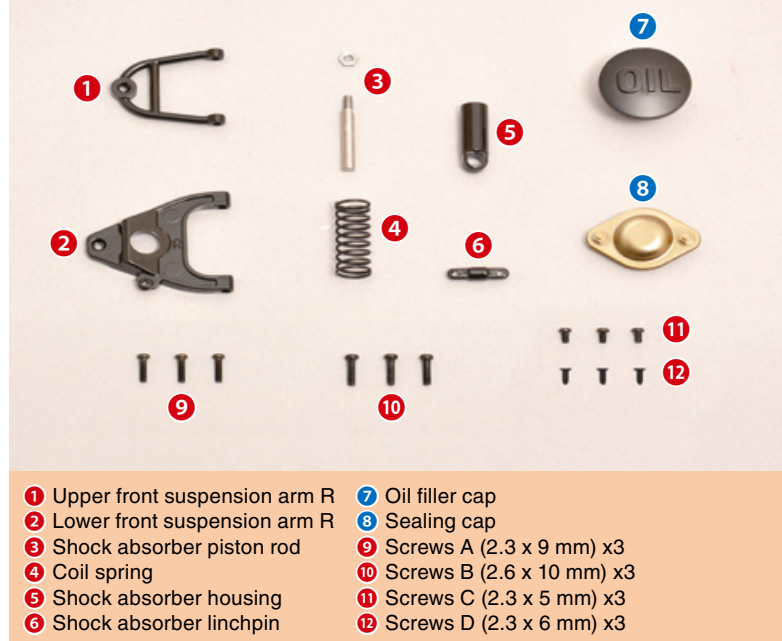


7 THE FRONT SUSPENSION – 2

In this stage you will continue to assemble the front suspension of your 1:8 scale model, and attach the cap and sealing cap on the oil filler tube of the rotary engine.



LIST OF PIECES



• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

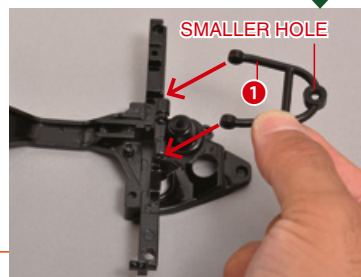
1 The suspension arms – right side



Get the suspension chassis you worked on in stage 6 and attach the lower front suspension arm R.



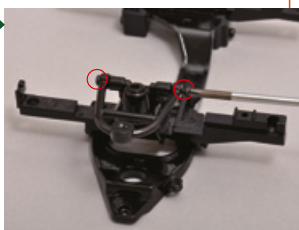
Secure the pieces with two type B screws in the points circled in the photo.



Now attach the front suspension arm R, as shown in the photo.

SMALLER HOLE

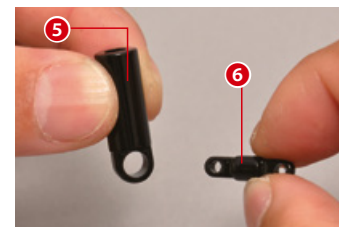
Secure the pieces with two type A screws. Ensure that the two suspension arms move without any difficulty.



COSMO SPORT

Step

2 The shock absorber – 1



Insert the shock absorber linchpin into the hole in the housing, as shown in the photo.



Now slide the housing into the hole in the left suspension arms (assembled in stage 6).



Secure the pieces with two type C screws, as shown in the photo.



NOTE: YOU ARE WORKING ON THE LEFT SIDE OF THE SUSPENSION YOU ASSEMBLED IN STAGE 6



COSMO SPORT

Step

3 The shock absorber – 2



Remove the nut from the end of the shock absorber piston rod and insert the latter as shown in the photo.



Put the nut back on the end of the piston rod, but don't tighten it completely. You will be adjusting the suspension later on.

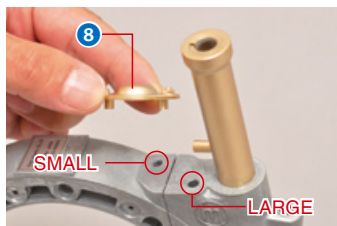
Slide the coil spring onto the shock absorber housing and insert the piston rod into the coil spring.



ROTARY ENGINE

Step

5 The oil filler cap



Attach the sealing cap to the rotor housing. Use the photo to help you put it on the right way.



Position the oil filler cap as shown in the photo and insert it into the oil filler tube.

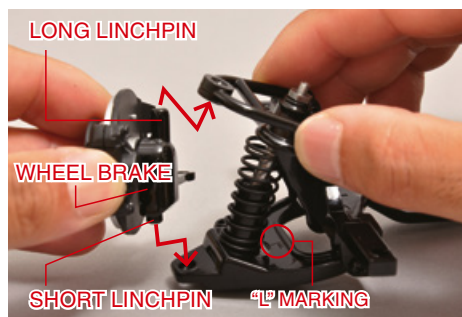
This is what the rotary engine looks like at the end of this stage.



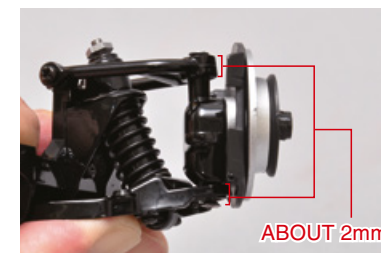
COSMO SPORT

Step

4 The wheel brake



Insert the wheel brake you assembled in Stage 5 into the holes in the left suspension arms. Position the pieces as shown in the photo.

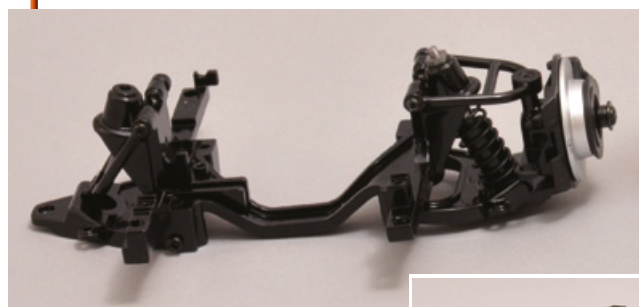


You will be adjusting the suspension later on; the space left will allow the pieces to move sufficiently for the moment.



Use two type D screws to secure the pieces. Don't tighten the screws completely: leave a space of about 2mm.

FINAL RESULT



This is the result of this satisfying assembly session. Keep the parts in a safe place with all the other pieces.

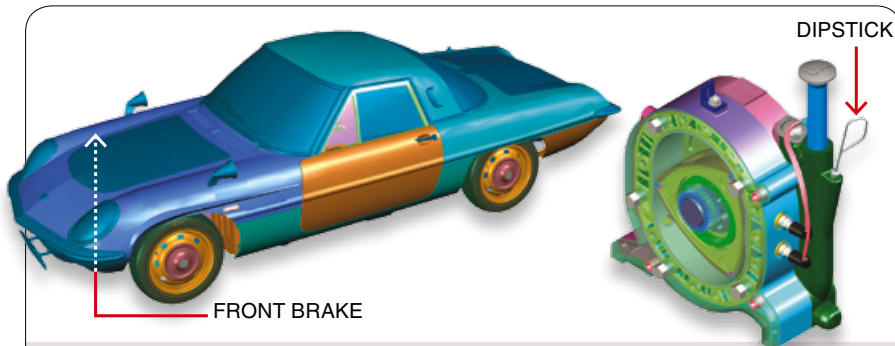


The next stage



8 THE SECOND BRAKE

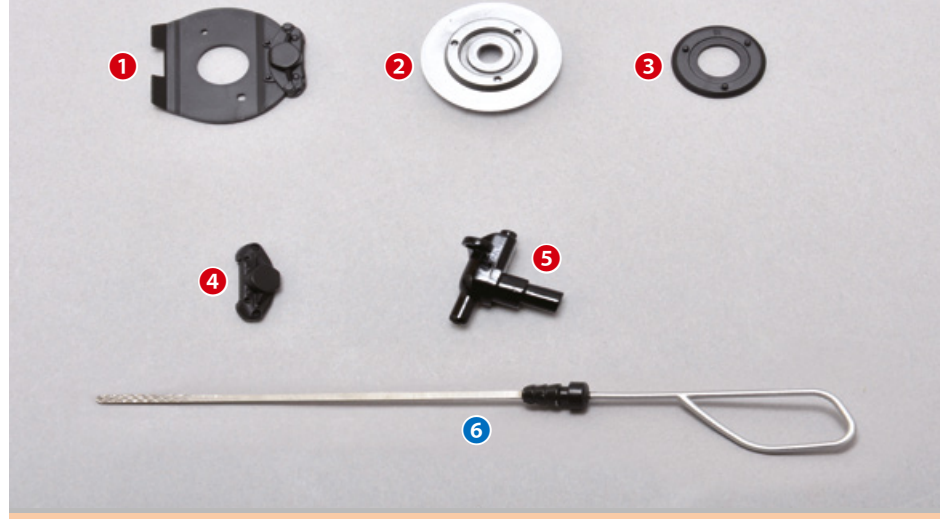
In this stage you will assemble the front right brake of your 1:8 scale model of the Mazda Cosmo Sport, and install the dipstick on the rotary engine.



TOOLS NEEDED

- Cross screwdriver

LIST OF PIECES



- | | |
|-------------------|-----------------|
| 1 Disc back plate | 4 Brake caliper |
| 2 Brake disc | 5 Hose joint |
| 3 Wheel hub | 6 Dipstick |

• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1 Assembling the brake

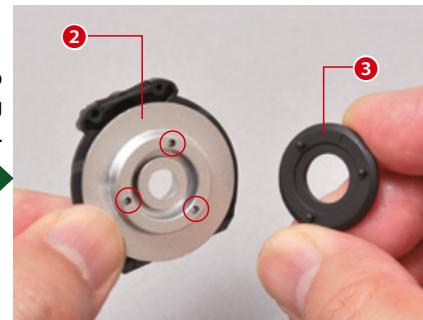


Attach the brake disc to the back plate.
The pieces only fit together in one way.

Press them
together
completely.



Now attach the wheel hub
by aligning the interlocking
elements on the pieces.



The front right brake is now finished.

Attach the brake
caliper, as shown
in the photo.



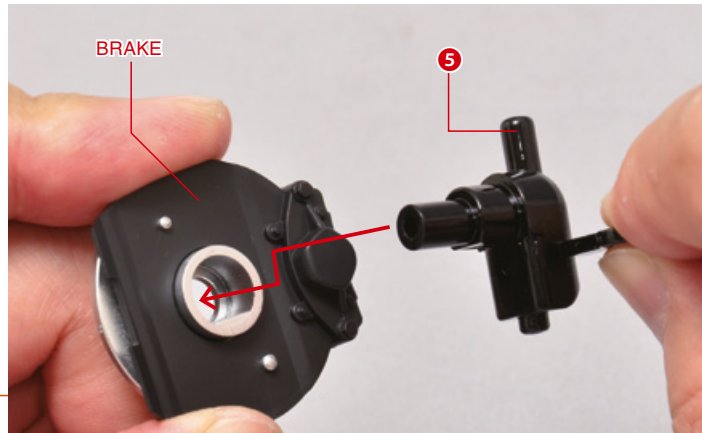


COSMO SPORT

Step

2

Attaching the hose joint



Position the pieces as shown in the photo and insert the hose joint into the brake unit.



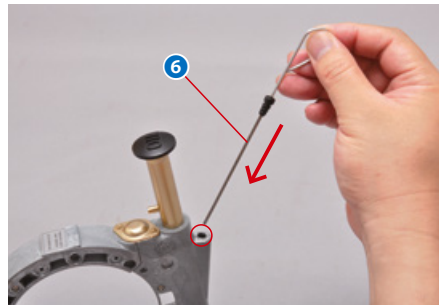
The hose joint doesn't need to be secured yet; you will adjust it later on.

ROTARY ENGINE

Step

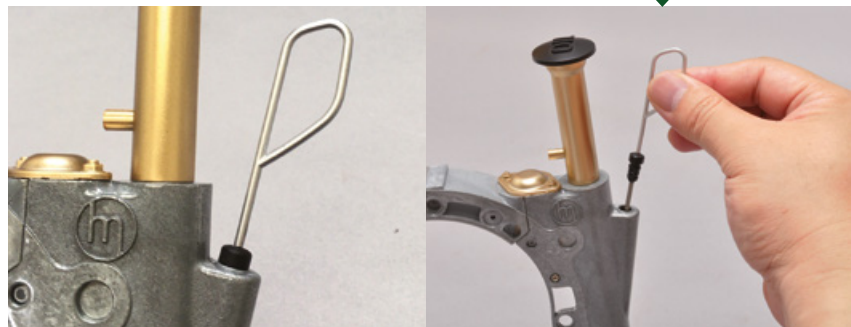
3

The dipstick

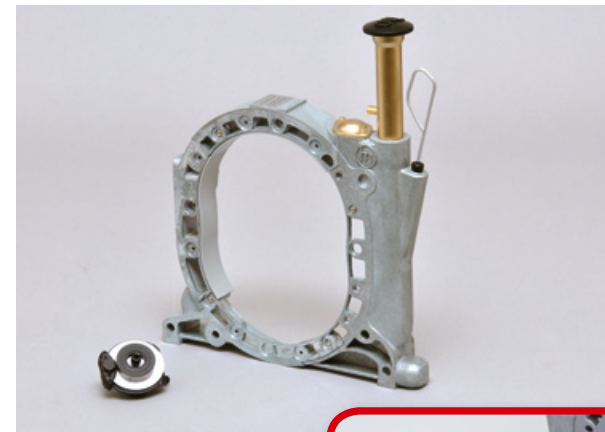


Insert the dipstick into the hole in the rotor housing circled in the photo.

Push it down until it is in this position.

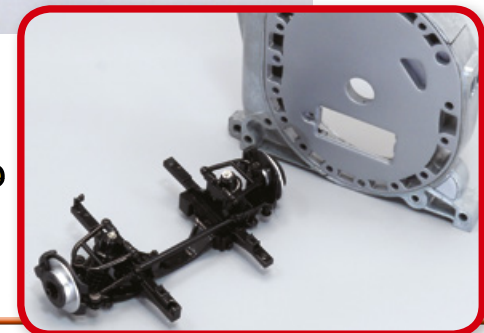


FINAL RESULT



This is the result of this assembly session. Keep the parts in a safe place with all the other pieces.

The next stage

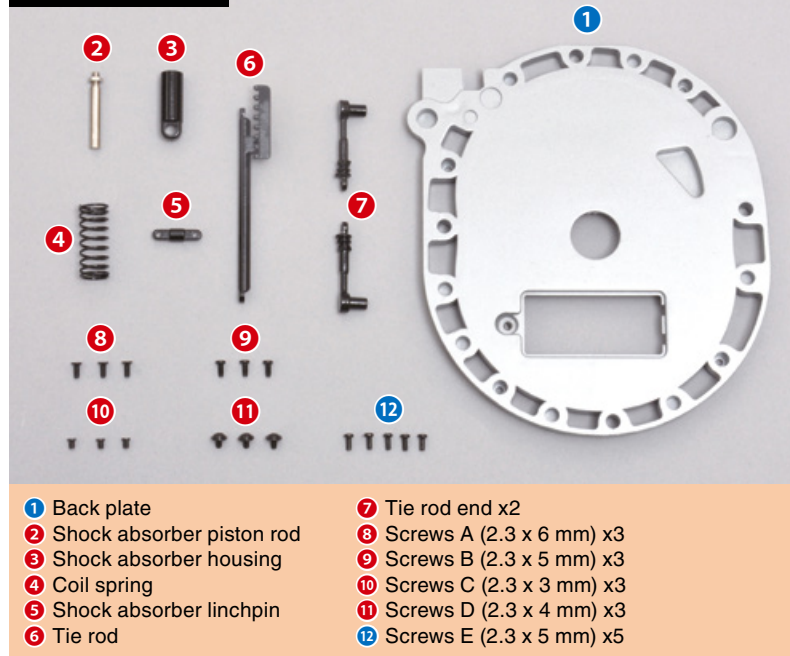


9 THE TIE ROD

In this stage you will assemble the front left suspension and install the tie rod, the part responsible for turning the wheels of the car.



LIST OF PIECES



• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1 The front suspension – right side



Insert the linchpin into the shock absorber housing as shown in the photo, and then attach the piece to the lower right front suspension arm.



Secure the pieces with two type B screws.



Remove the nut from the end of the piston rod and insert the latter as shown in the photo. Put the nut back on, but don't tighten it completely.



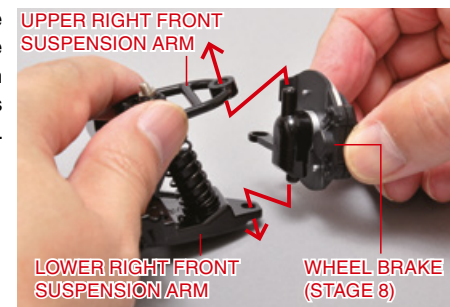
Slide on the coil spring and insert the piston rod as shown in the photo.

COSMO SPORT

Step

2 The wheel brake

Attach the wheel brake you assembled in Stage 8 to the two suspension arms. Position the pieces as shown in the photo.

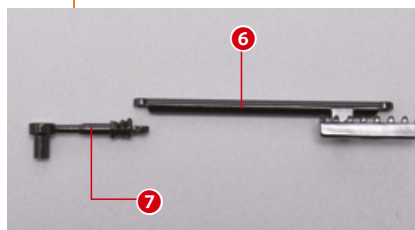


Secure the pieces with two type A screws, using the holes circled in the photo. Don't tighten the screws completely: leave a space of about 2mm for each screw.

COSMO SPORT

Step

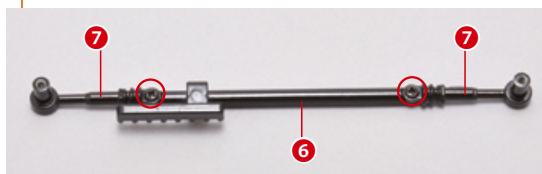
3 The tie rod – 1



Attach one of the tie rod ends to the tie rod, as shown in the photo.

DO NOT TIGHTEN COMPLETELY

Secure the pieces with one type C screw. Do not tighten it completely, so that the end is able to move.

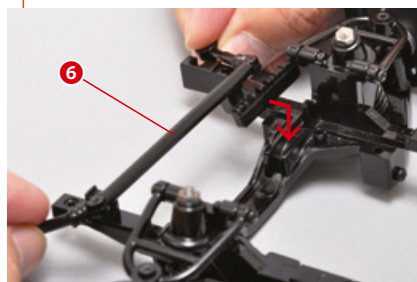


Attach the other tie rod end in the same way.

COSMO SPORT

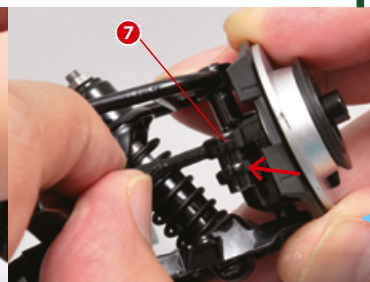
Step

4 The tie rod – 2



Place the tie rod on the chassis, with the pieces facing the same way as those in the photo.

Secure the pieces with one type D screw in each end.



Lift the front suspension arms up and insert the linchpins on the tie rod ends into the holes indicated by the arrows.

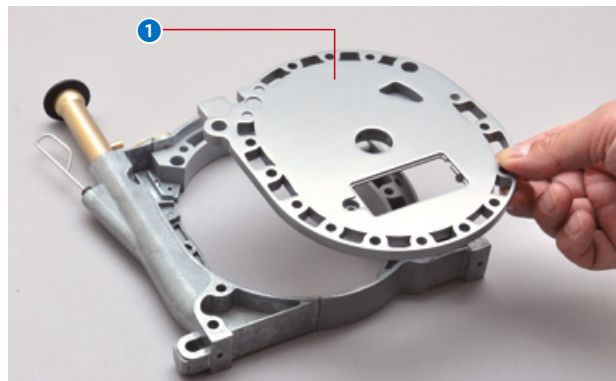


If this proves difficult, you can remove a little paint with some sandpaper.

ROTARY ENGINE

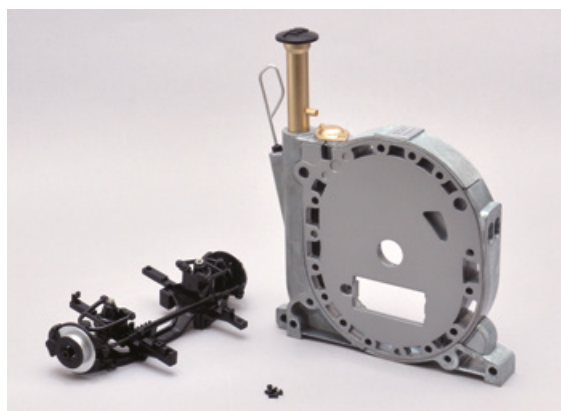
Step

5 The back plate



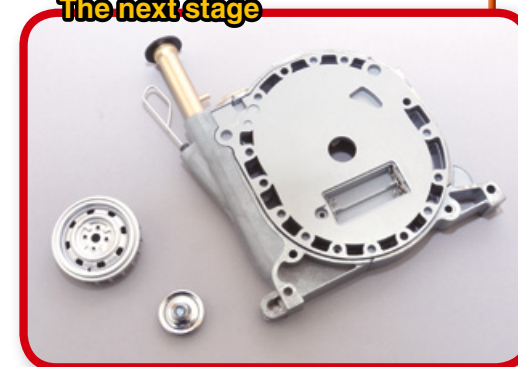
Insert the back plate into the rotor housing, positioning the pieces as shown in the photo. Don't use any screws for now, as this is a temporary assembly.

FINAL RESULT



The tie rod is now installed on the front suspension. Keep the type E screws that came with this stage in a safe place, as you will need them later.

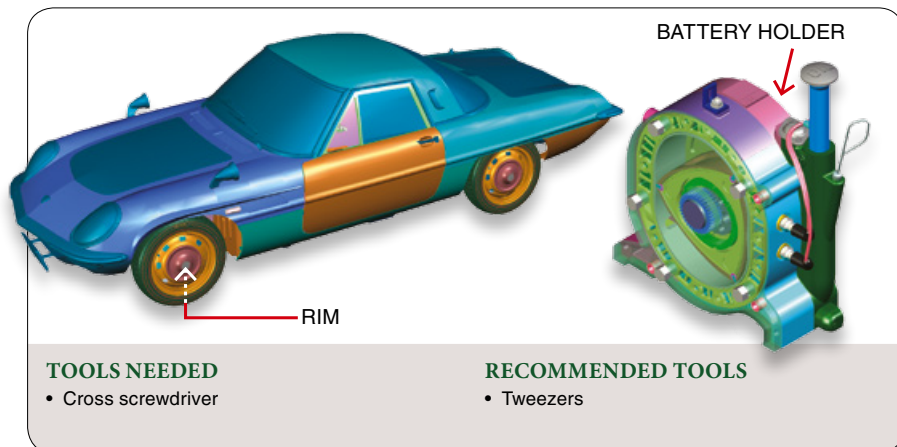
The next stage



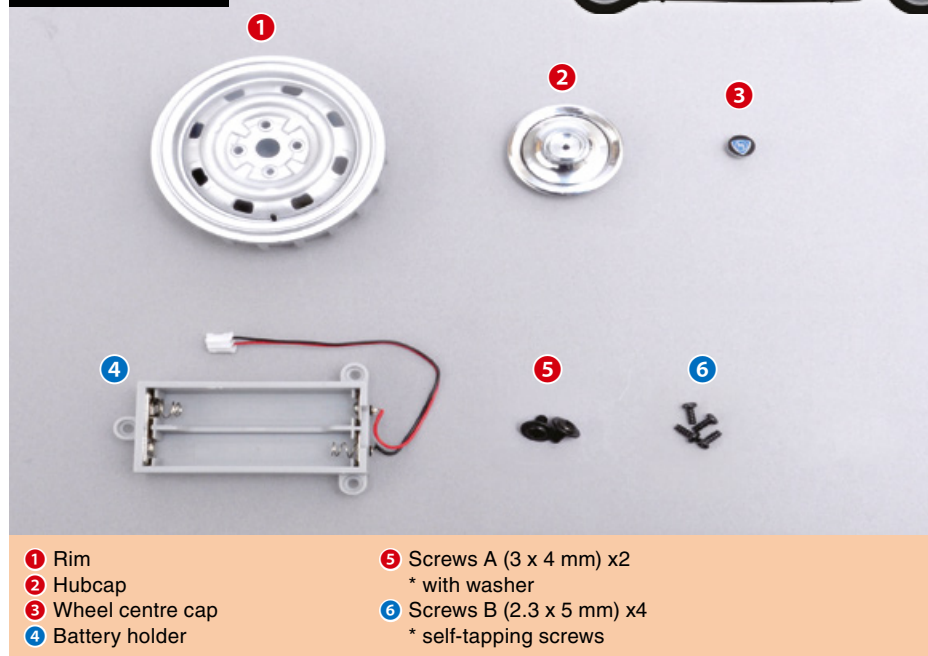


10 THE BATTERY HOLDER

In this stage you will install the battery holder on the rotary engine. On the next page you will find a list of all the types of screws you will be using in the following stages.



LIST OF PIECES

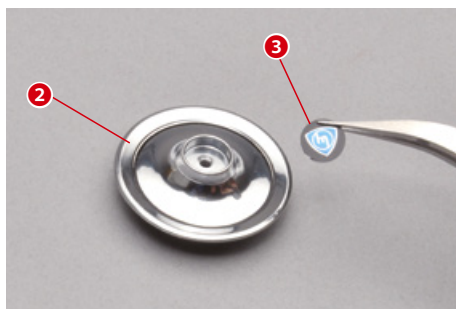


• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1 The wheel centre cap



Attach the wheel centre cap to the hubcap by inserting the linchpin on the first into the latter.

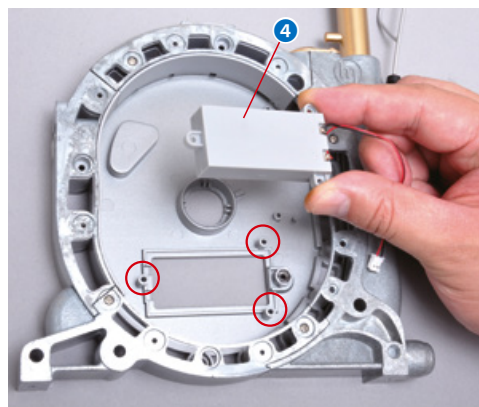


You will be able to turn the centre cap round later. Do not put the hubcap on the rim yet.

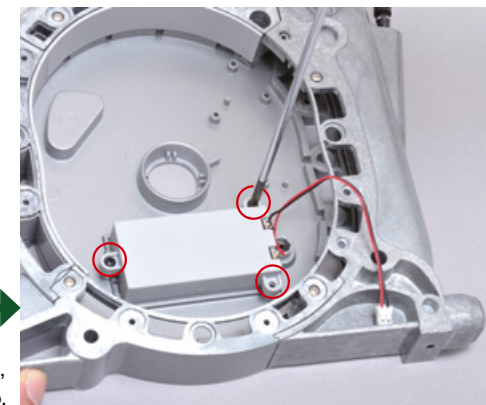
ROTARY ENGINE

Step

2 The battery holder


















Attach the battery holder to the back of the rotor housing, aligning the holes for the screws.



Secure with three type B screws, using the holes circled in the photo.

List of screws supplied

TYPES OF SCREWS	2 x 3.5 mm		2 x 5 mm		2 x 4 mm		2.3 x 3 mm		2.3 x 4 mm		2.3 x 4 mm		3 x 4 mm		2.3 x 4 mm		2.3 x 9 mm		2.6 x 10 mm		2.3 x 5 mm		2.3 x 6 mm		2.3 x 4 mm		2.3 x 3 mm		2.3 x 5 mm	
																														
	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used	Screw code and stage	Screws used
1	8	2																												
2			3	4																										
3					6	2	7	4	10	1																				
4									11	1																				
5									9	6	10	0	6	1																
6															8	1	6	2	7	2										
7																	9	2	10	2	11	2	12	2						
8																														
9																				9	2	8	2	11	2	10	2	12	0	
10													5	0														6	3	

* The table does not include spare screws. The size of the screws provided may differ slightly to the specified measurements, but this will not affect the assembly of your model.

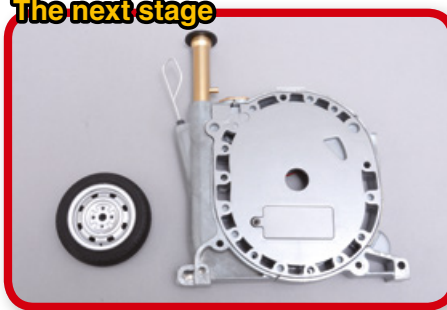
This is a list of the screws provided up to and including stage 10. The screws that will be provided with the following stages may have different codes, but you can still consult this table if you need to. Always keep any spare screws in a safe place.

FINAL RESULT



This is the result of this assembly session. Keep the parts in a safe place with all the other pieces.

The next stage



RECAP

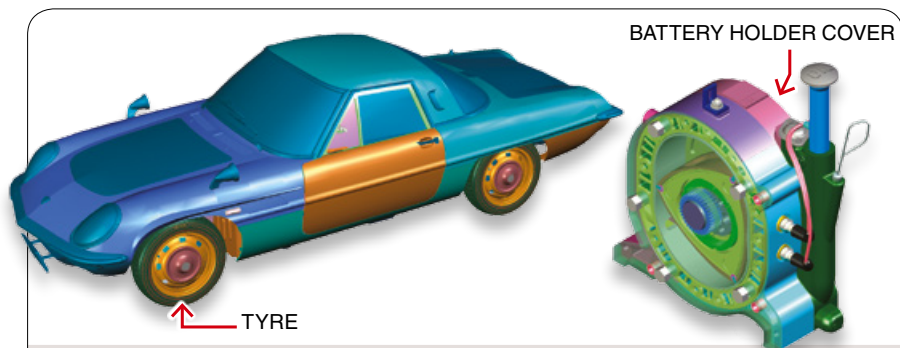
Here are the parts of your 1:8 scale model of the Mazda Cosmo Sport and 1:2 scale rotary engine that you have now assembled.





11 THE SECOND WHEEL

In this stage you will assemble the second wheel and adjust the front suspension of your 1:8 scale model of the Mazda Cosmo Sport.



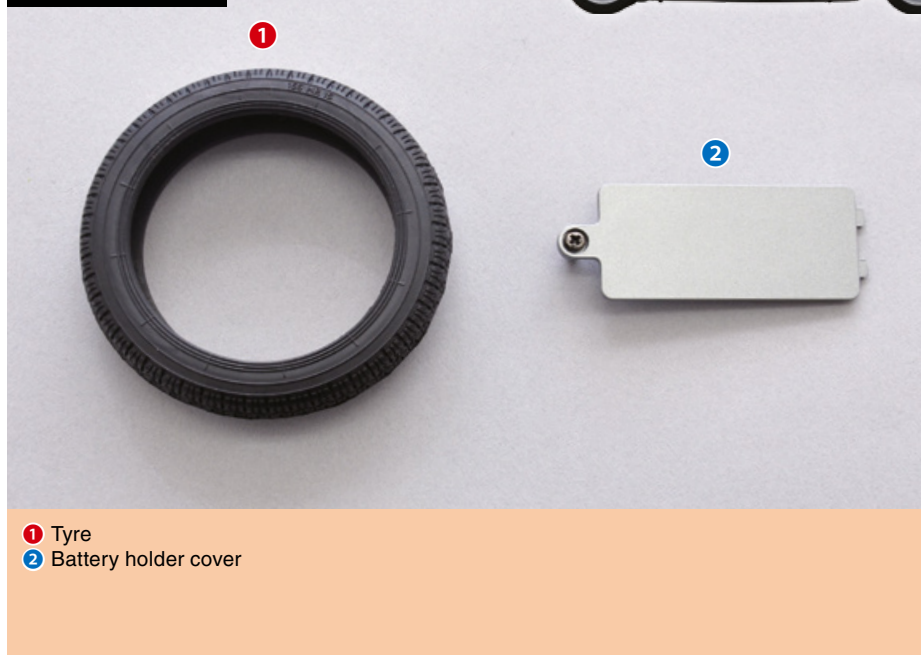
TOOLS NEEDED

- Cross screwdriver
- Rubber-based adhesive or glue for screws

RECOMMENDED TOOLS

- Toothpicks

LIST OF PIECES



- 1 Tyre
- 2 Battery holder cover

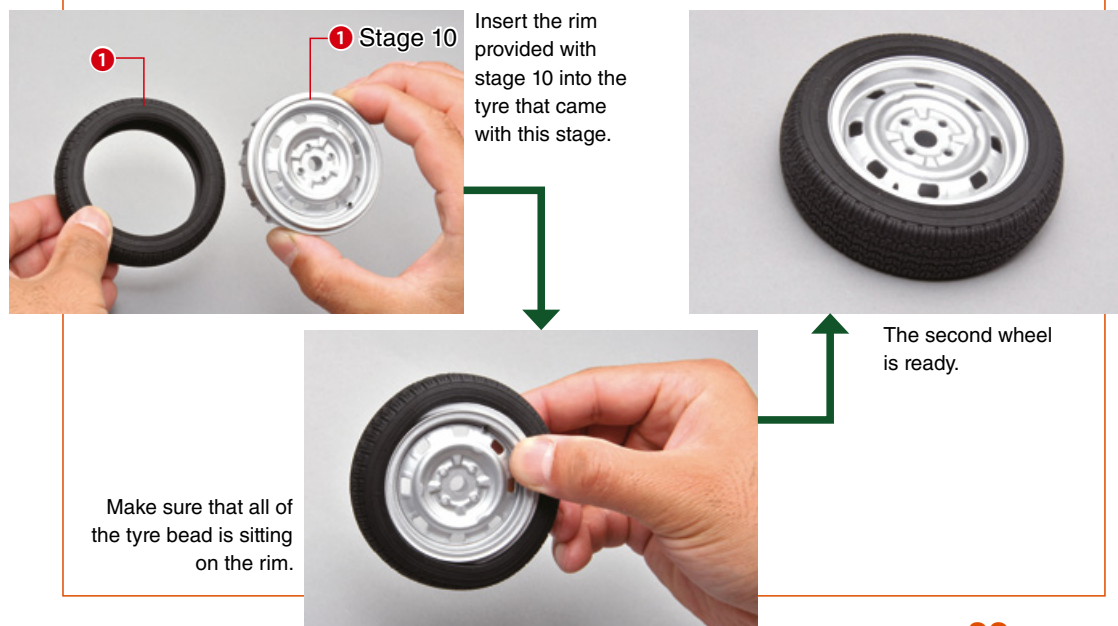
• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1

The second wheel

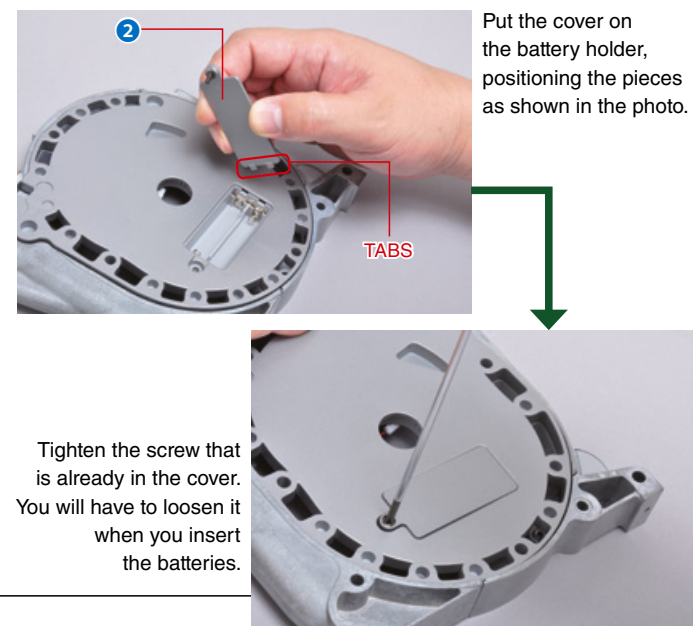


ROTARY ENGINE

Step

2

The battery holder cover





Regulating the suspension

To regulate the front suspension you will now temporarily mount the two wheels you have assembled on the hubs.

Mounting the wheels



Mount the two wheels on the hubs.



Temporarily secure both wheels with two type A screws, provided with Stages 5 and 10. You will first have to remove the screw you put into the wheel hub in Stage 5.



Here are the two wheels mounted on the front suspension. Remember that this is a temporary assembly.

Testing the suspension

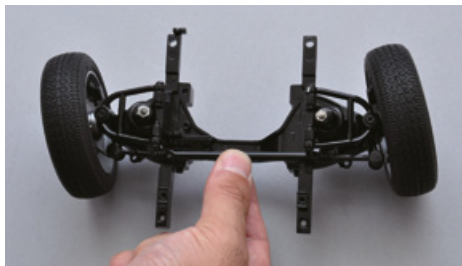


Lightly press down on the chassis to check that the suspension works.

To stiffen the suspension, tighten the nuts on the shock absorbers. If you want, you can apply a small amount of adhesive or glue for screws to keep the screws in place.



The tie rod



Check that the tie rod works properly by moving it slightly to one side.

You can apply a small amount of adhesive or glue for screws on one end of the screws in the tie rods to stop them coming out.

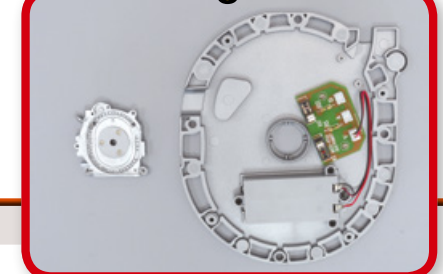


FINAL RESULT



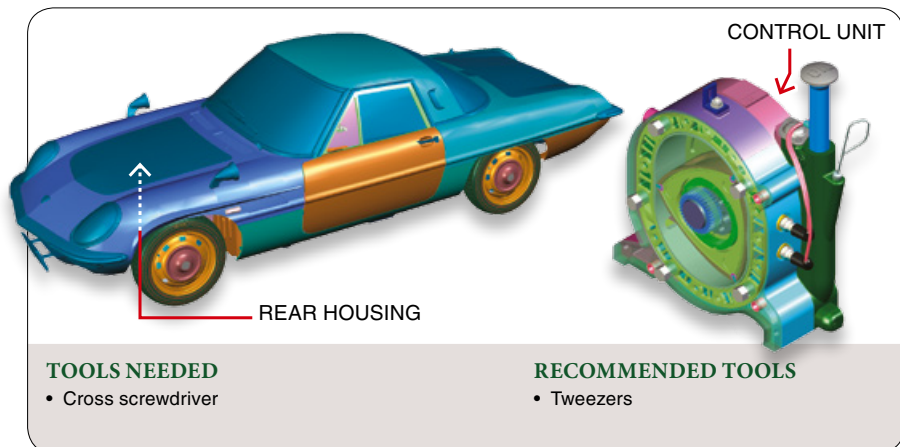
This is the result of this assembly session. Keep the parts in a safe place with all the other pieces. You have almost finished the suspension system.

The next stage

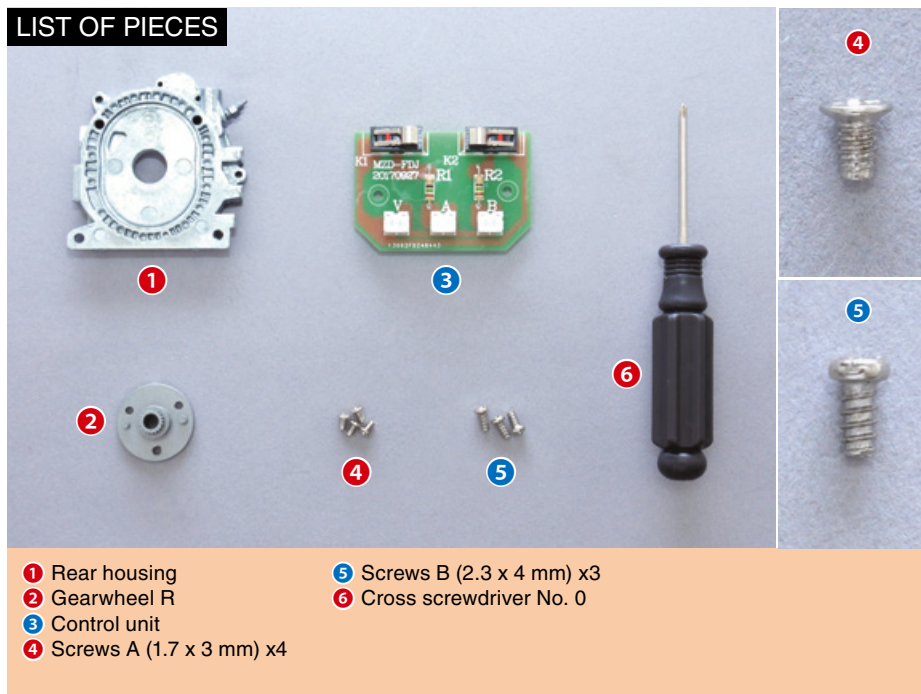


12 THE CONTROL UNIT

In this stage you will install the rear housing of the rotary engine on your 1:8 scale model. Handle the control unit carefully so as not to damage it.



LIST OF PIECES

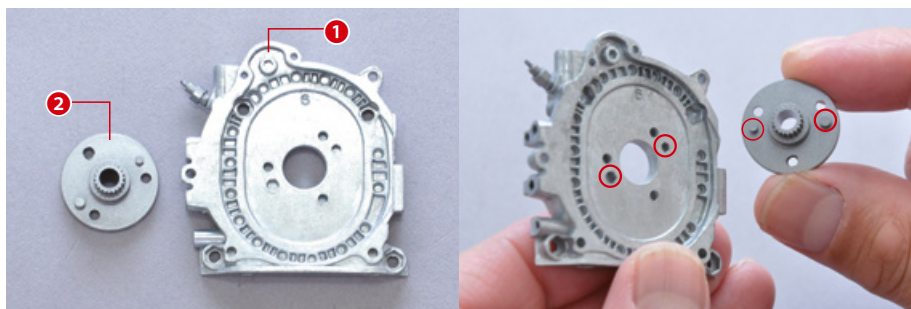


• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1 The rear housing – 1



Join the gearwheel R and the rear housing as shown in the photo. The pieces only fit together in one way thanks to the interlocking elements circled in the photo.

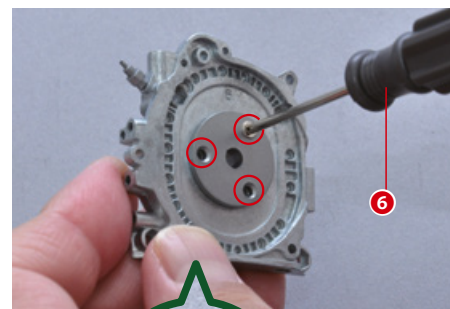
Press the gearwheel until it clicks into place.



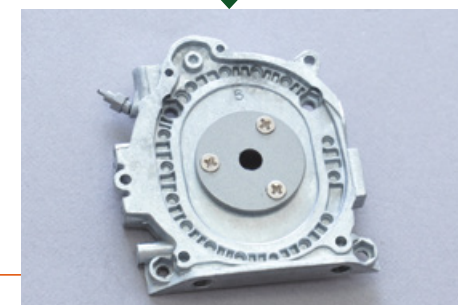
COSMO SPORT

Step

2 The rear housing – 2



Using the screwdriver provided with this stage, secure the pieces with three type A screws, using the holes circled in the photo.



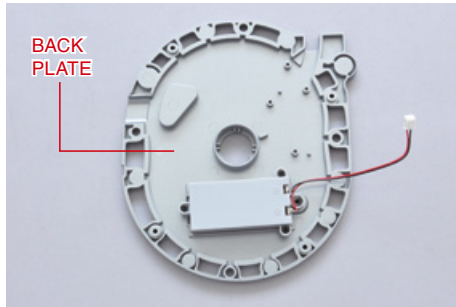


ROTARY ENGINE

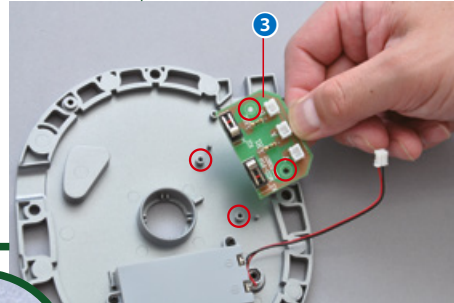
Step

3 The control unit – 1

BACK
PLATE



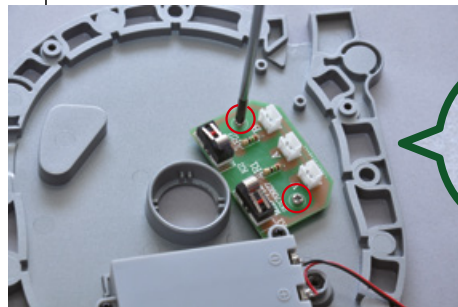
Position the back plate of your 1:2 scale rotary engine as shown in the photo.



Position the control unit as shown in the photo, aligning the circled holes.

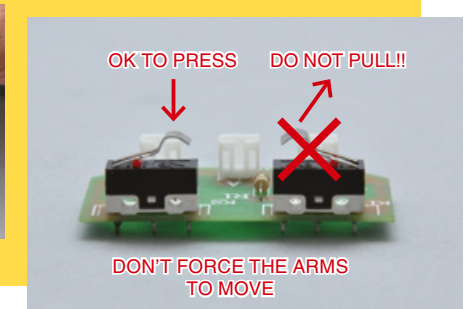
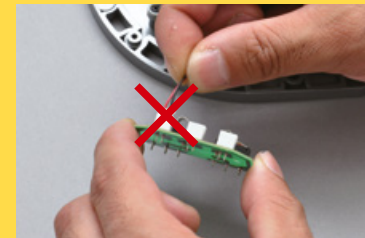
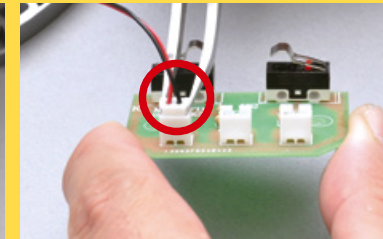
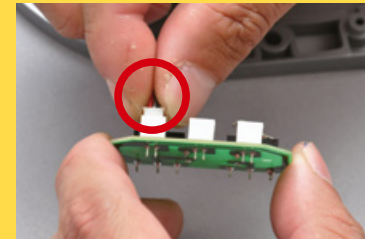


Secure the pieces with two type B screws.



WARNING!

The electrical components of your models are very delicate, so handle them with care. If you want to disconnect the wire from the socket, we recommend that you press lightly on the sides of the white connector with your fingers or tweezers. Do not pull the wire. The arms of the switch can be pressed, but we do not recommend pulling them.

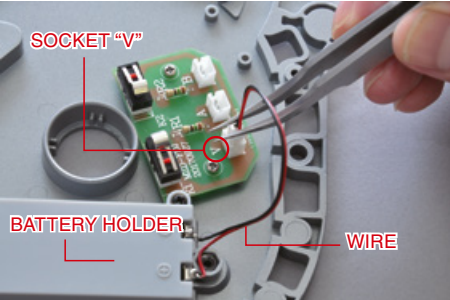


ROTARY ENGINE

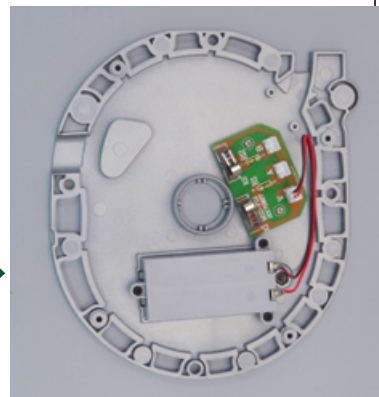
Step

4 The control unit – 2

SOCKET "V"

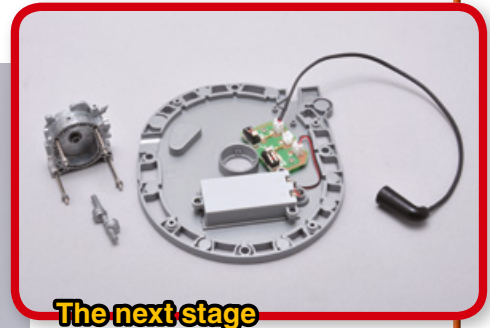
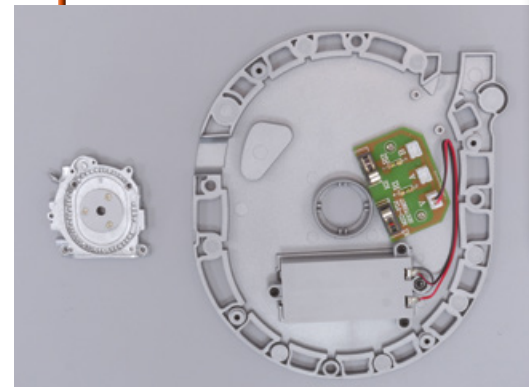


Insert the plug on the wire coming out of the battery holder into socket "V" in the control unit.



To simplify the next steps, arrange the wire as shown in the photo.

FINAL RESULT

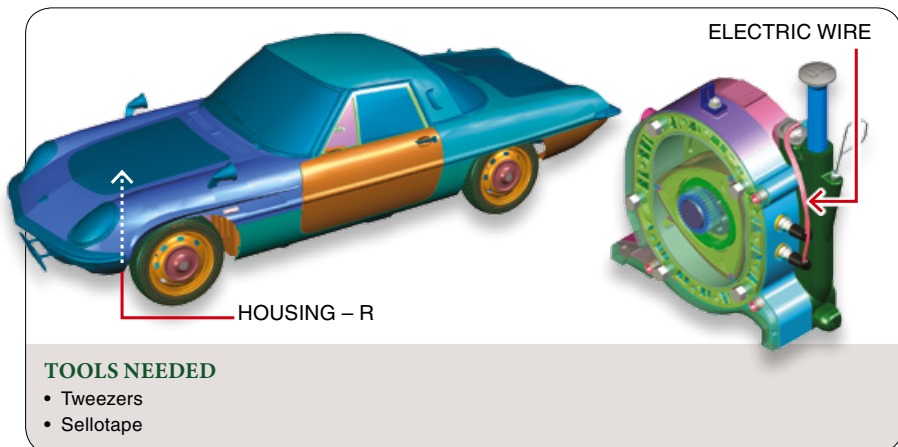


This is the result of this assembly session. Keep the parts in a safe place with all the other pieces and the no. 0 cross screwdriver that came with this stage.



13 THE ROTOR HOUSING – R

In this stage you will attach one part of the rotor housing of your 1:8 scale model; you will also connect an electric wire to the 1:2 scale rotary engine.



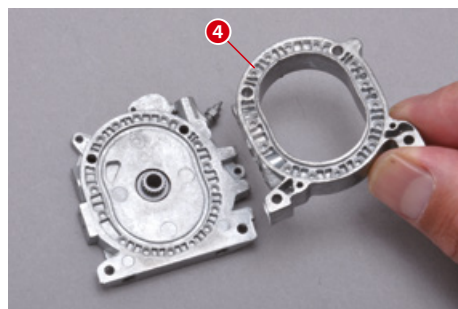
LIST OF PIECES



• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

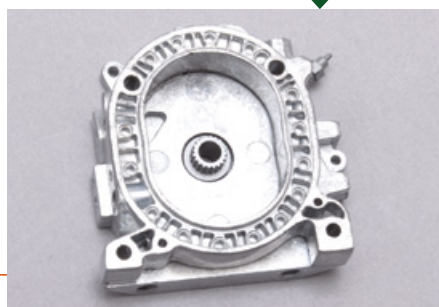
COSMO SPORT

Step 1 The housing – 1



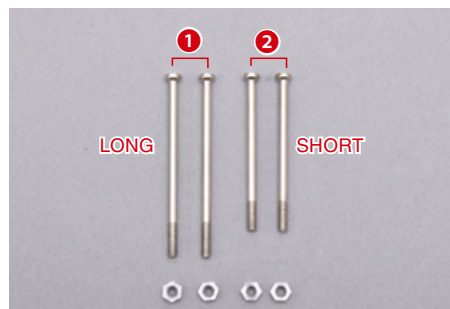
Place the housing R on the back plate (received with the previous stage) as shown in the photo.

Look at the photo to make sure the pieces are facing the right way.



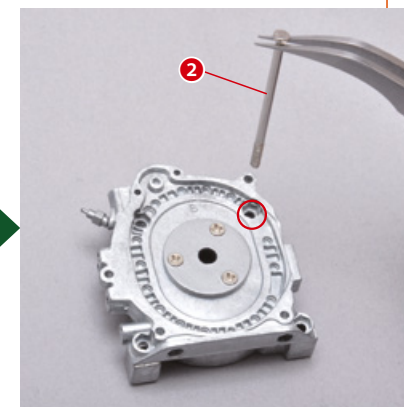
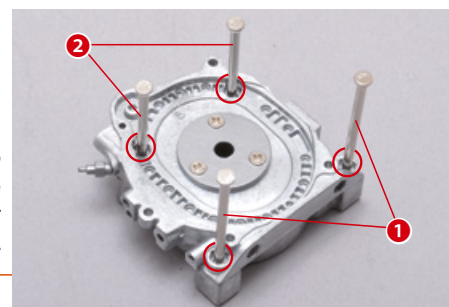
COSMO SPORT

Step 2 The housing – 2



You received two types of bolts with this stage. Remove all of the nuts, as shown in the photo. All the nuts are the same size.

Use the photo to help you insert the remaining bolts in their respective holes.

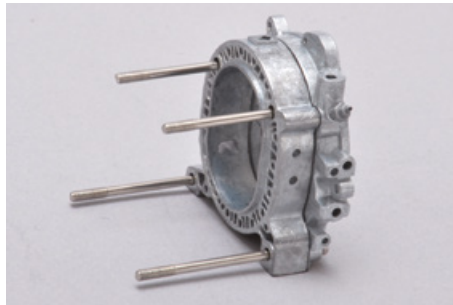


Insert a short bolt into the hole in the back plate, circled in the photo.



COSMO SPORT

Step 3 The housing – 3



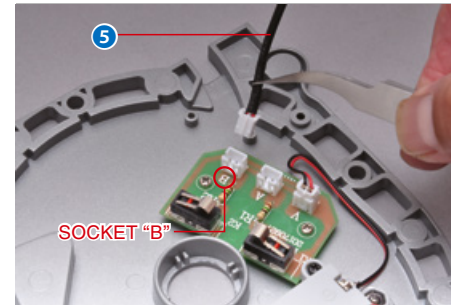
Push the bolts all the way through the back plate of the 1:8 scale rotary engine.

Put the nuts back on the ends of the bolts so that you don't risk losing them.



ROTARY ENGINE

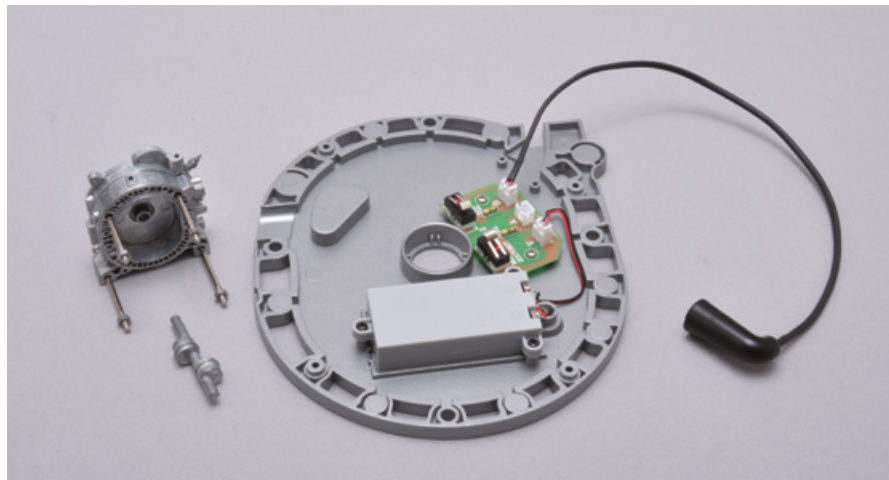
Step 4 The electric wire



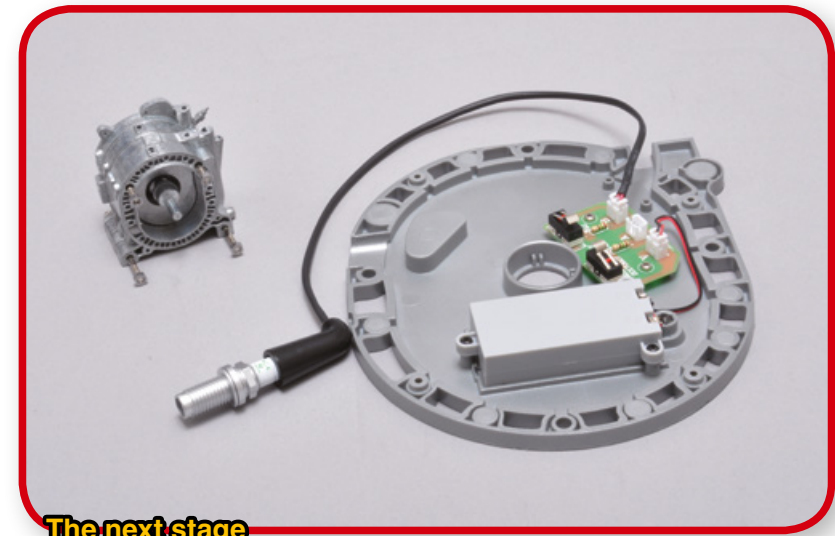
Insert the plug on the electric wire into socket "B" in the control unit.



FINAL RESULT



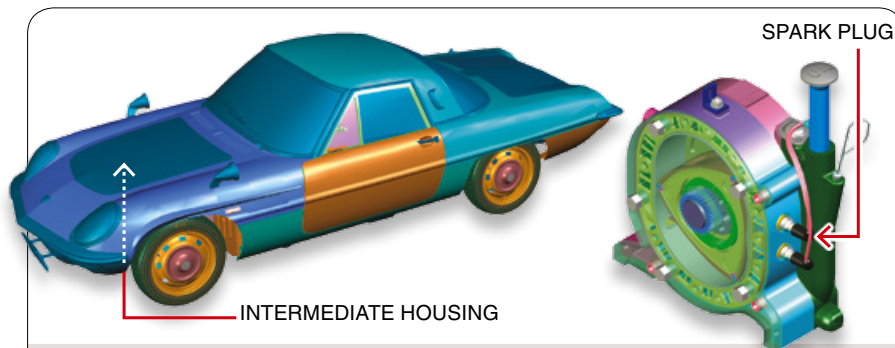
This is what the two rotary engines should look like. Keep the parts in a safe place with all the other pieces.



The next stage

14 THE INTERMEDIATE HOUSING

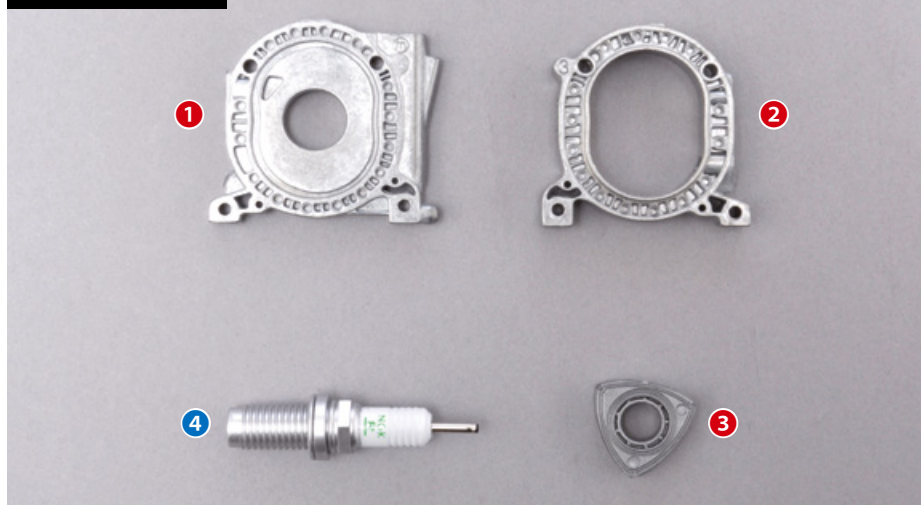
In this stage you will continue to work on the rotor housing of your 1:8 scale model. You will also check that the LED light of the spark plug in the 1:2 scale rotary engine works.



TOOLS NEEDED

- Cross screwdriver
- AAA batteries x2

LIST OF PIECES



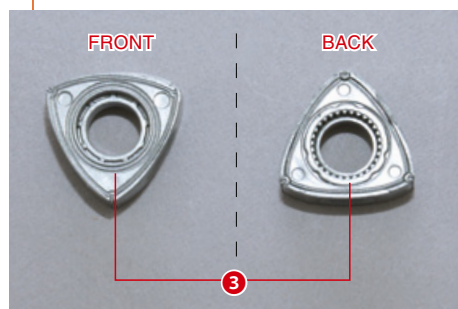
- 1 Intermediate housing
- 2 Housing F
- 3 Rotor
- 4 Spark plug

• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

Step

1 The rotor



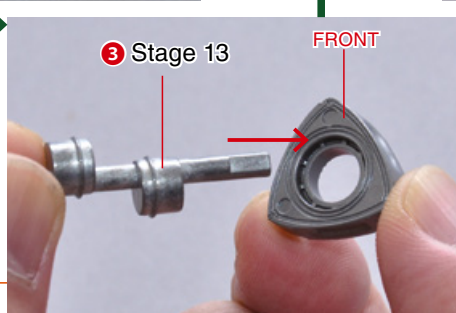
Look at the photo carefully to identify the two different sides of the rotor.



Push the eccentric shaft until it slots into place, as shown in the photo.

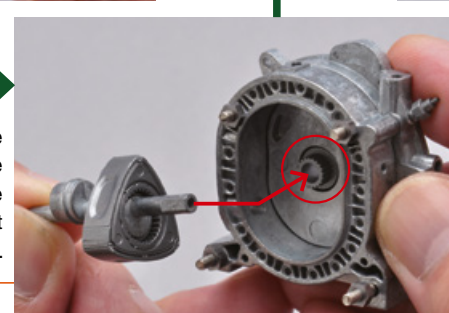


Push the rotor all the way in so that it sits correctly in its housing.



Insert the semi-circle shaped end of the eccentric shaft (received with stage 13) into the hole in the rotor, from the front of the latter.

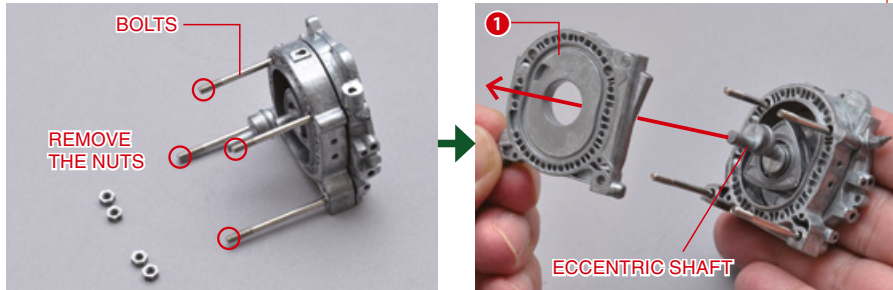
Insert the semi-circle shaped end of the eccentric shaft into the hole in the housing that is circled in the photo.



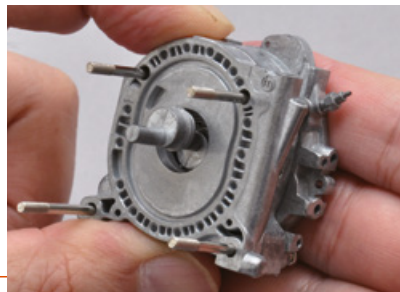


COSMO SPORT

Step 2 The intermediate housing



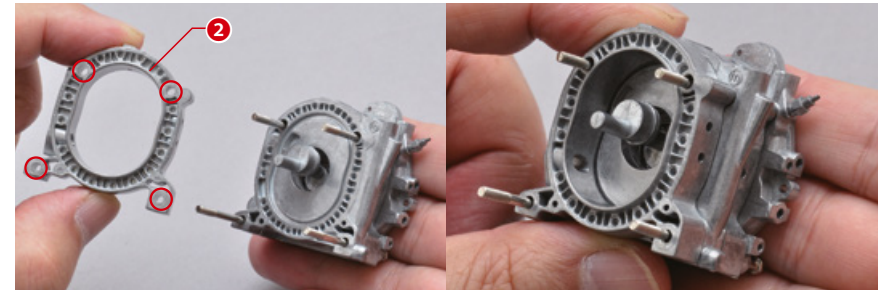
Remove all four nuts from the ends of the bolts.



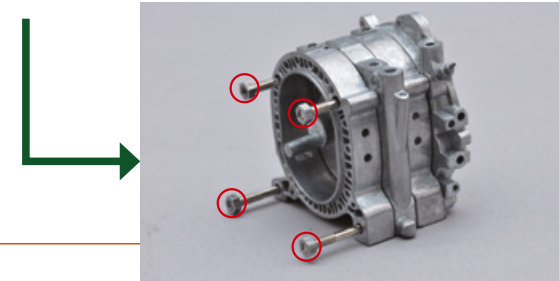
Use the photo to help you position the intermediate housing correctly.

COSMO SPORT

Step 3 The housing F



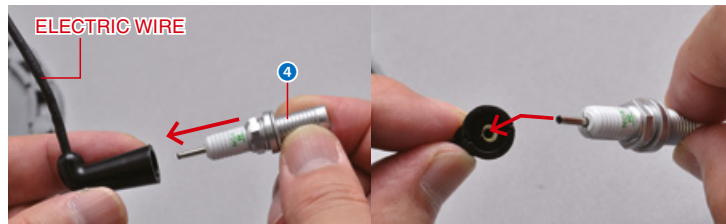
Now attach the housing F. Use the photo to help you put it on the right way round.



Put the nuts back on the ends of the bolts.

ROTARY ENGINE

Step 4 Testing the spark plugs



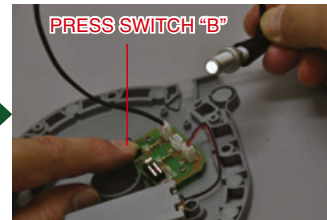
Connect the electric wire you received with the previous stage to the spark plug, using the photo to help you.



Make sure you have installed the spark plug correctly.

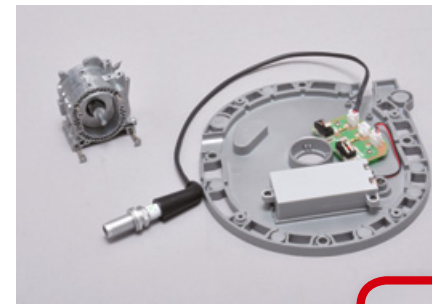


Insert two AAA batteries in the battery holder.



Press switch "B" on the control unit to check that the LED light on the spark plug works.

FINAL RESULT



Here's what the components of the rotary engines look like in different scales at the end of this assembly session. Keep the parts in a safe place with all the other pieces.

The next stage

