

MAZDA

Cosmo **SPORT**



PACK 03

 **DeAgostini**
MODEL SPACE™
www.model-space.com



Cosmo SPORT

STAGE

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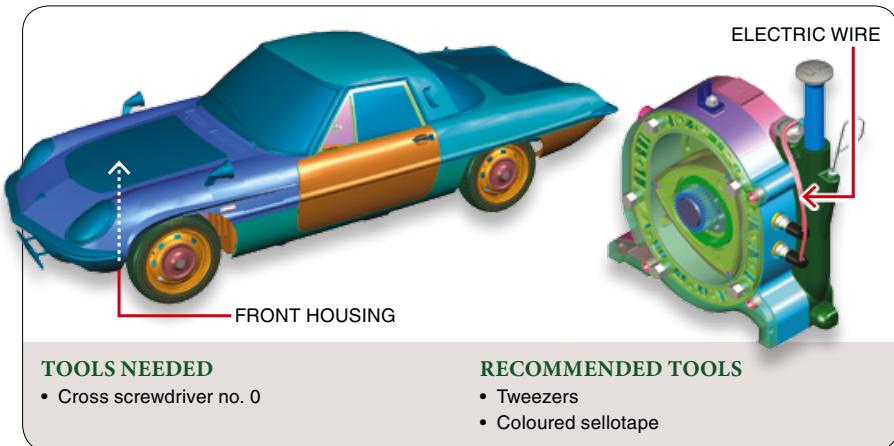
NOT SUITABLE FOR CHILDREN UNDER THE AGE OF 14.

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

ITEMS MAY VARY FROM THOSE SHOWN.

15 THE FRONT HOUSING

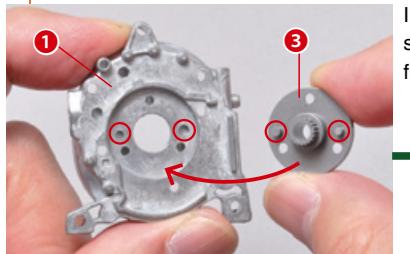
In this stage you will install the second rotor in the rotary engine of your 1:8 scale model. This piece has also been accurately reproduced.



COSMO SPORT

Step
1

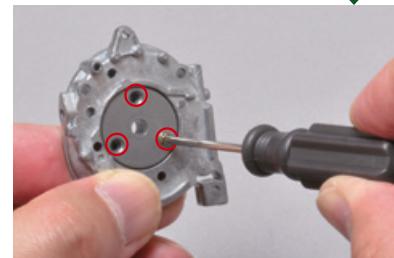
The gearwheel



Insert the gearwheel into the front housing as shown in the photo. The pieces are shaped to only fit together in one way.

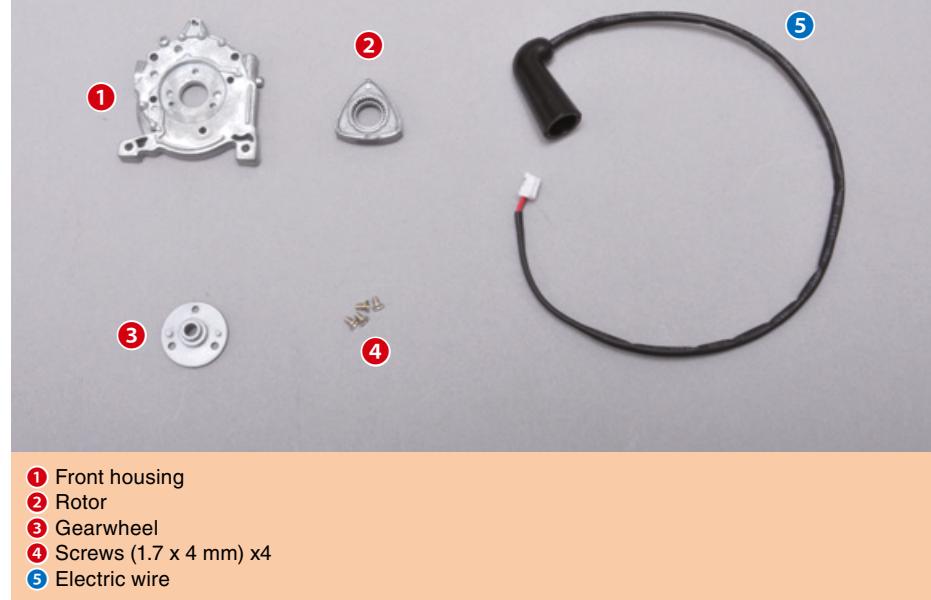


Press the gearwheel all the way down.



Secure the pieces with three of the screws that came with this stage. Use the cross screwdriver you received with Stage 12.

LIST OF PIECES

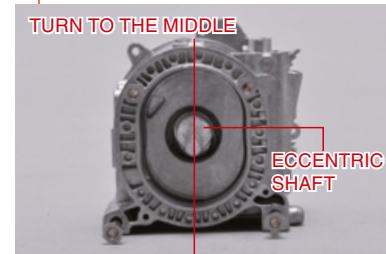


• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

COSMO SPORT

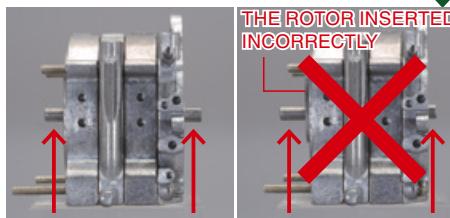
Step
2

The rotor



TURN TO THE MIDDLE

Turn the eccentric shaft so that the end is in the position shown in the photo.



THE ROTOR INSERTED INCORRECTLY

Look at the photo carefully and slide on the rotor that came with this stage.

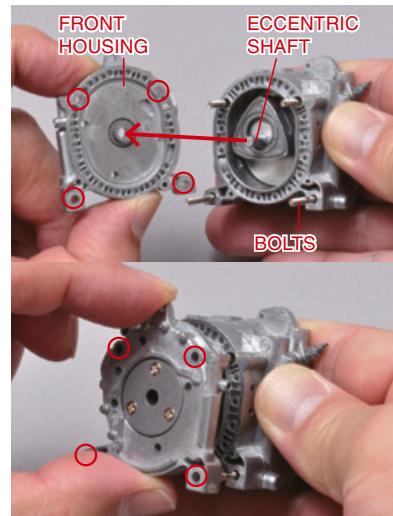
If the protruding ends of the shaft are different lengths, it means that the rotor you installed in Stage 14 is not positioned correctly. To fix it, do the steps in Stage 14 again.



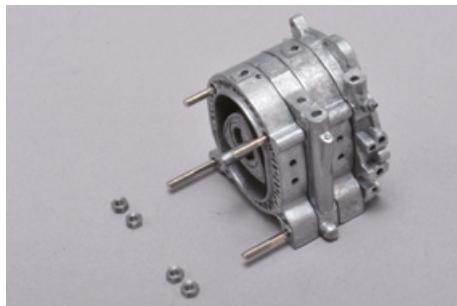
COSMO SPORT

Step
3

The front housing

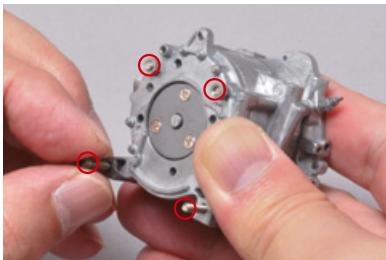


Remove the nuts from the ends of the four bolts.



Attach the front housing to the 1:8 scale rotary engine, as shown in the photo.

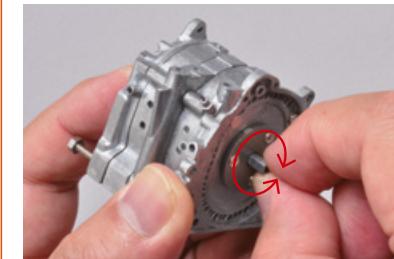
Put the nuts back on the ends of the bolts.



COSMO SPORT

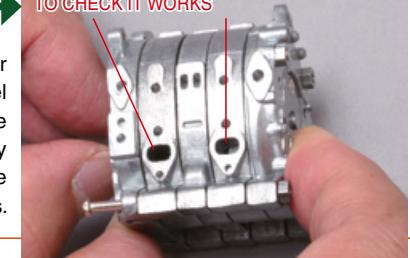
Step
4

Check



Check that the part functions properly by turning the eccentric shaft clockwise and anticlockwise.

LOOK THROUGH THE EXHAUST PORTS TO CHECK IT WORKS



You can see if your 1:8 scale model of the rotary engine is working by looking through the exhaust ports.

ROTARY ENGINE

Step
5

The electric wire



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



Once your 1:2 scale model of the rotary engine is completed, the control unit will no longer be visible. To distinguish the two electric wires, we recommend you stick a piece of coloured sellotape on the wire you received with this stage.

FINAL RESULT

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

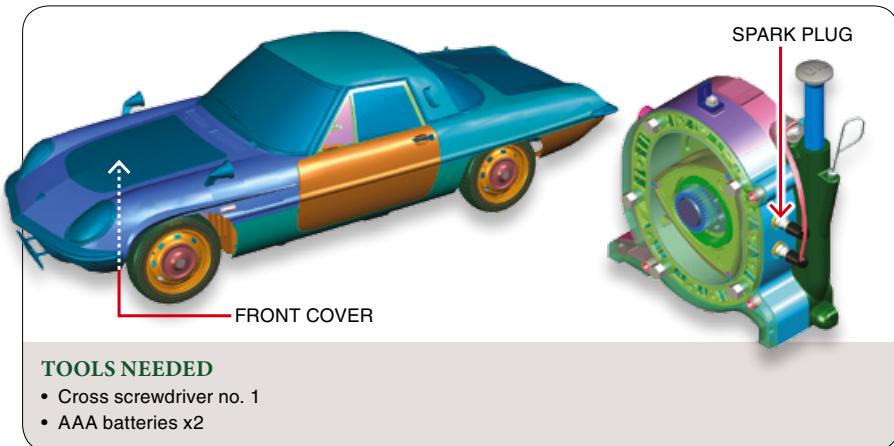


The next stage



16 THE FRONT COVER

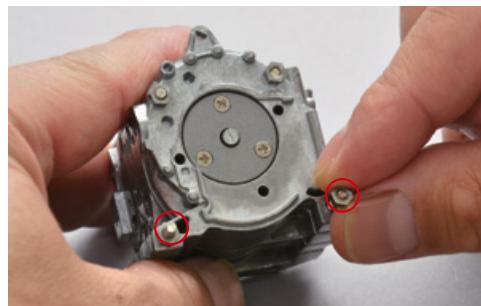
In this stage you will install the front cover of your 1:2 scale rotary engine and assemble the oil pan. You will also install the second spark plug on your 1:2 scale rotary engine.



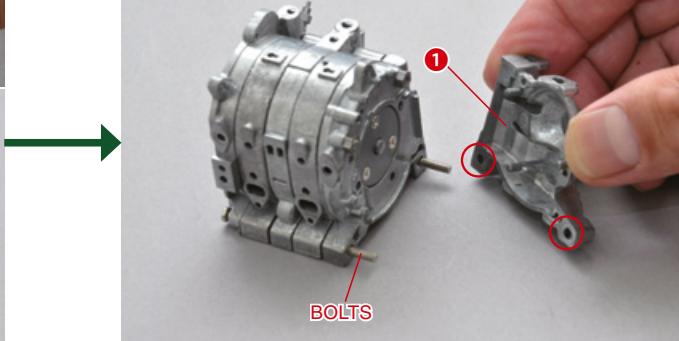
COSMO SPORT

Step
1

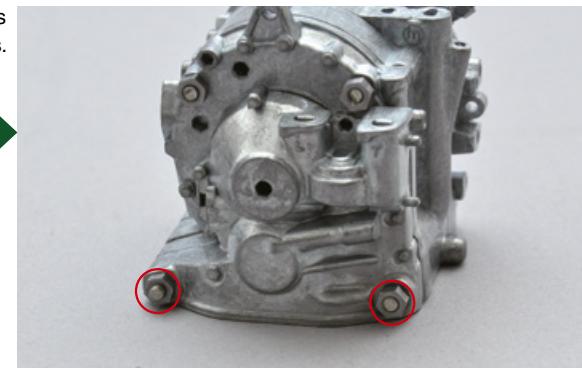
The front cover



Remove the nuts from the ends of the two bottom bolts.

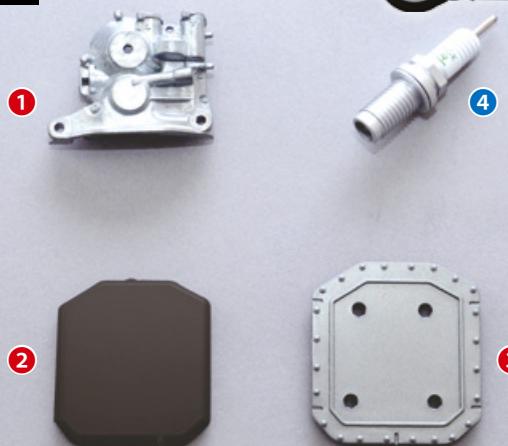


Put the nuts back on the ends of the two bolts.



Attach the front cover of your 1:8 scale rotary engine, as shown in the photo.

LIST OF PIECES



- ① Front cover
② Oil pan
③ Oil pan backing plate
④ Spark plug

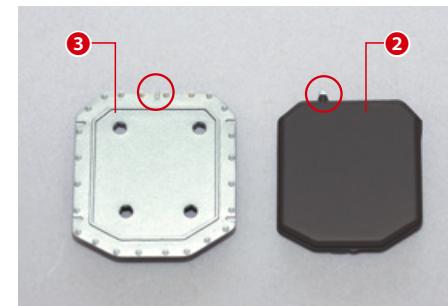
• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine



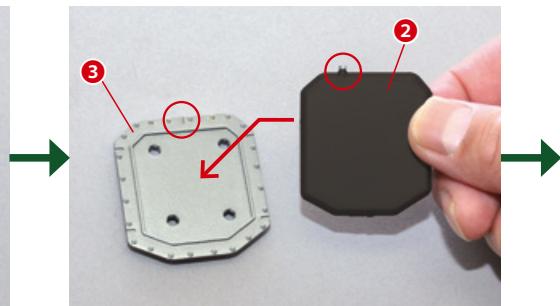
COSMO SPORT

Step

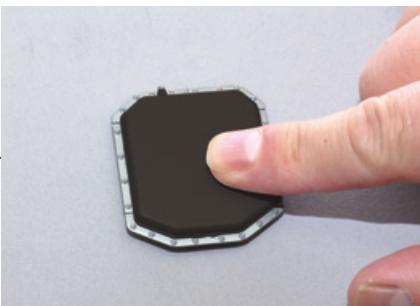
2 The oil pan



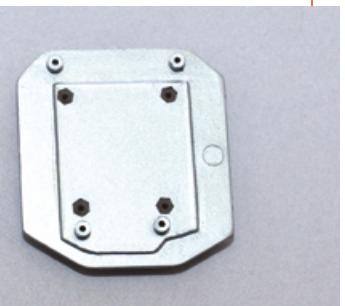
Position the two parts of the oil pan as shown in the photo.



Place the oil pan on the backing plate, ensuring the pieces face the same way as those in the photo.



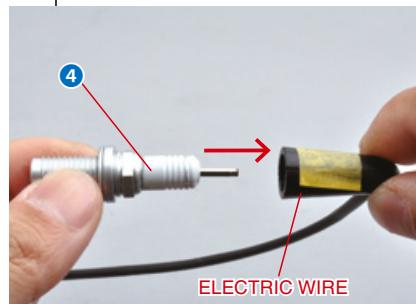
Gently press down on the oil pan until it clicks into place.



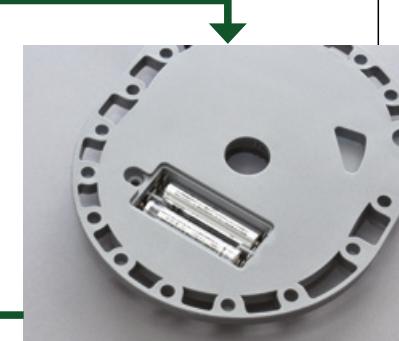
ROTARY ENGINE

Step

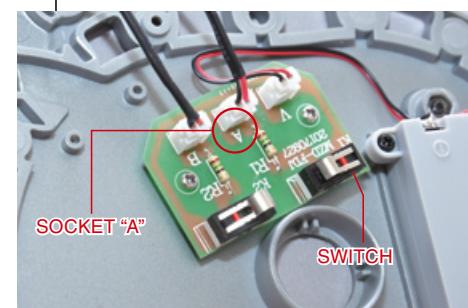
3 The spark plug



Insert the spark plug into the electric wire you received with stage 15, as shown in the photo.



Insert two AAA batteries into the battery holder.



Press the switch indicated in the photo to check that the spark plug works properly.



FINAL RESULT



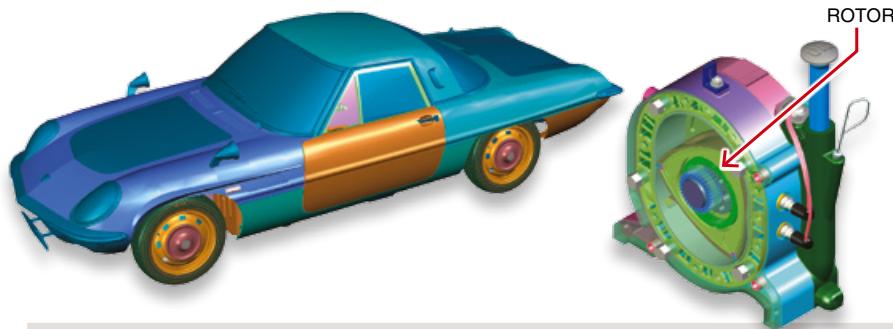
Your 1:8 scale rotary engine is now finished and both of the spark plugs of your 1:2 model have been installed. Keep all the pieces in a safe place.

The next stage



17 THE ROTOR – 1

In this stage you will be working on both of the rotary engines. Follow the instructions and explanatory photos carefully.



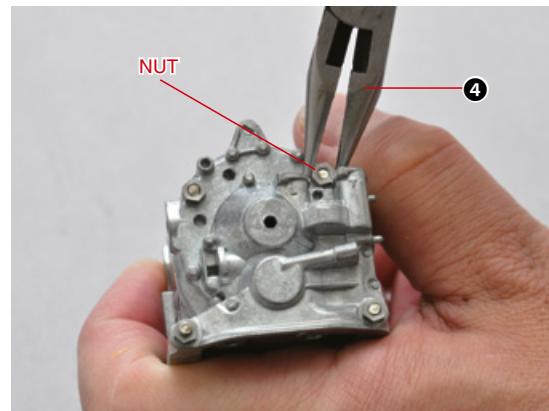
TOOLS NEEDED

- Cross screwdriver no. 1
- AAA batteries x2

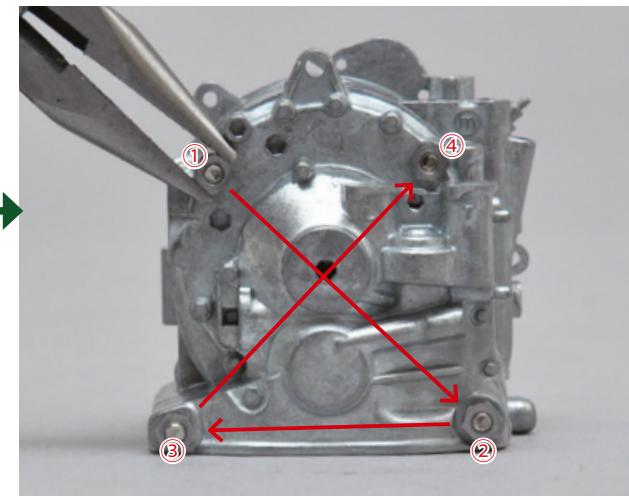
COSMO SPORT

Step
1

The nuts

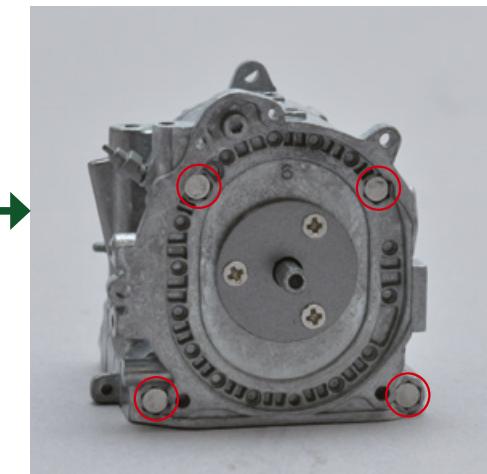


In this step you will tighten the nuts on the bolts with the pliers you received with this stage.



To avoid damaging the pieces, tighten the nuts in the order shown in the photo. Don't tighten the nuts too tightly.

LIST OF PIECES



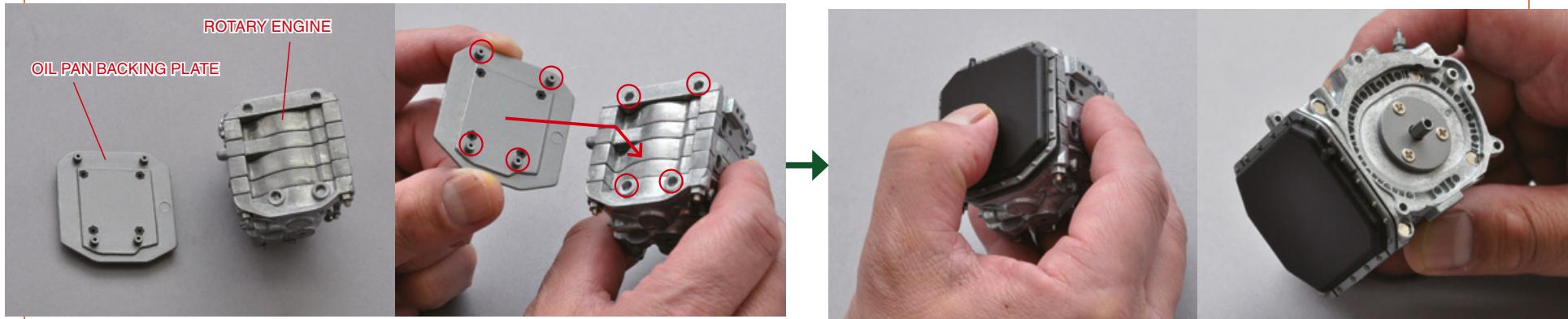
Make sure that the ends of the bolts on the back of the rotary engine are in the holes circled in red.



COSMO SPORT

Step

2 The oil pan



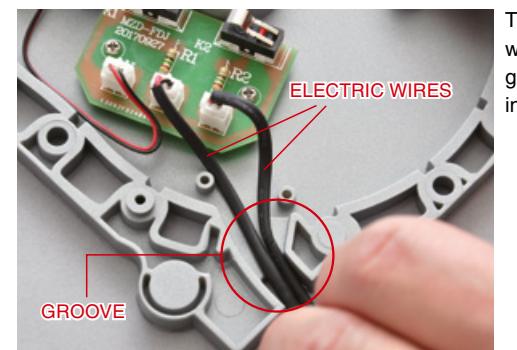
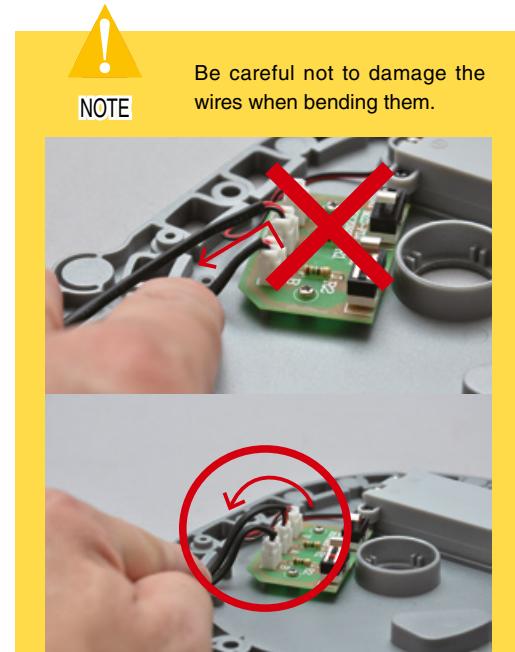
Attach the oil pan to the rotary engine. The pieces are shaped to only fit together in one way.

Press the oil pan until it clicks into place.

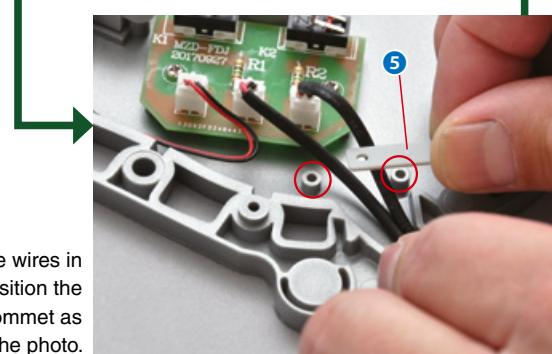
ROTARY ENGINE

Step

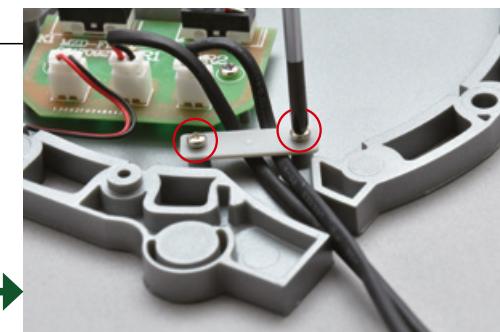
3 The wire grommet



Holding the wires in place, position the wire grommet as shown in the photo.



Thread the electric wires through the groove circled in the photo.



Secure the pieces with two of the screws that came with this stage.



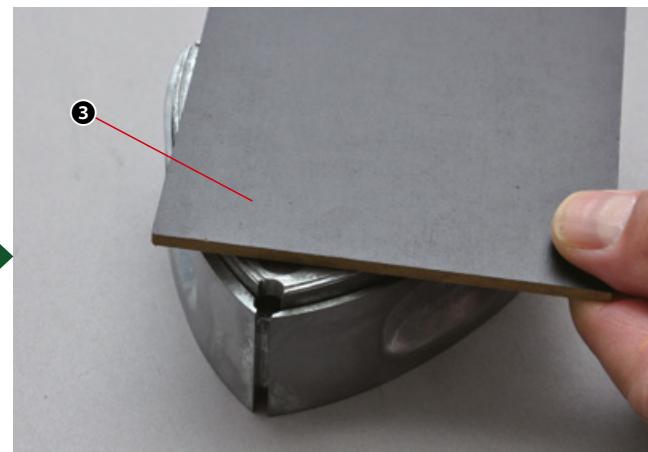
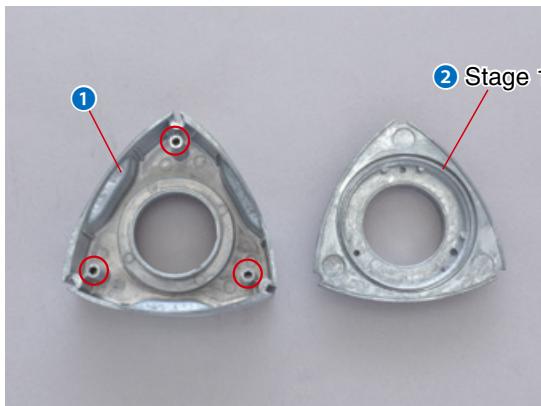
This is what the back plate and the two electric wires should look like at the end of this step.



ROTARY ENGINE

Step
4

The rotor – 1



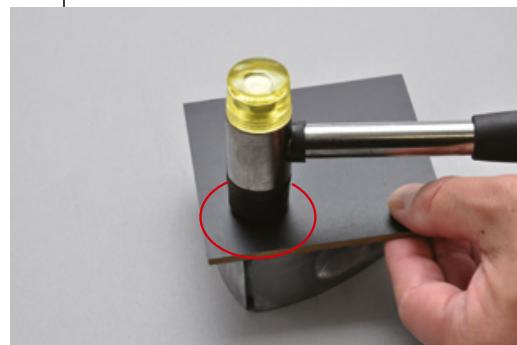
Get the rotor A you received with Stage 1 and attach it to rotor B using the respective interlocking elements.

Put the board on top of the rotor to avoid damaging the pieces in the next step.

ROTARY ENGINE

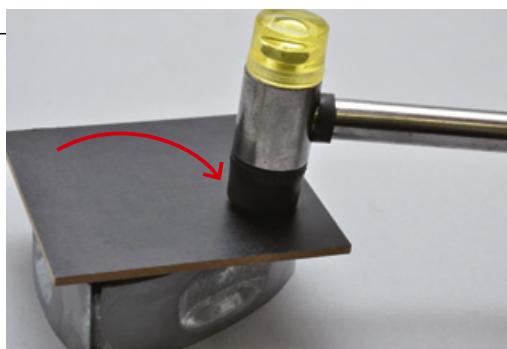
Step
5

The rotor – 2



Using the hammer you received with this stage, hammer the board in the points that correspond with the three corners of the rotor to ensure that the interlocking elements are completely inserted.

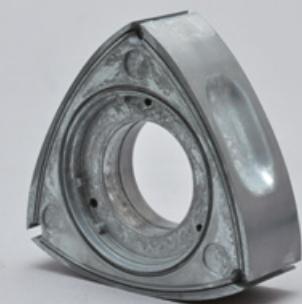
Continue hammering the corners of the rotor once until rotor A is completely inserted into rotor B.



Hammer once, then move on to the next corner. Hit the board once.



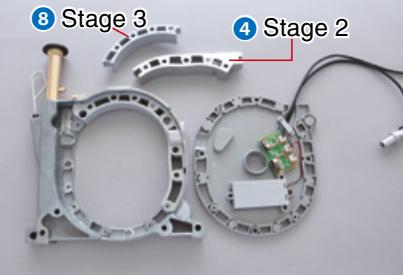
Make sure the edges of rotor A and B are flush.



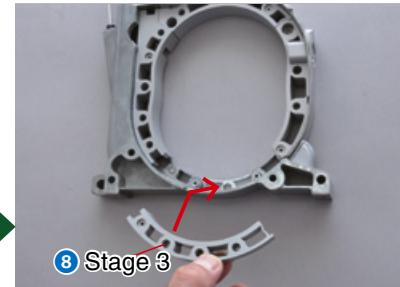
ROTARY ENGINE

Step

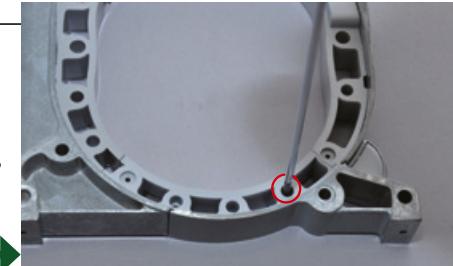
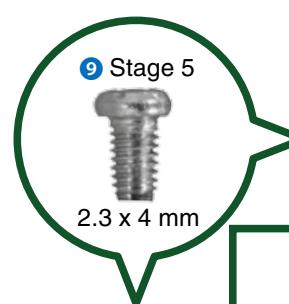
6 The rotor housing



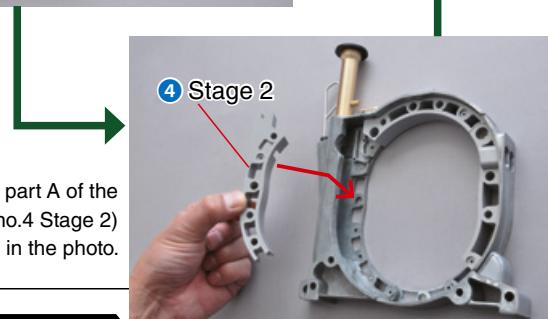
Get parts A and C of the rotor housing, received with Stages 2 and 3.



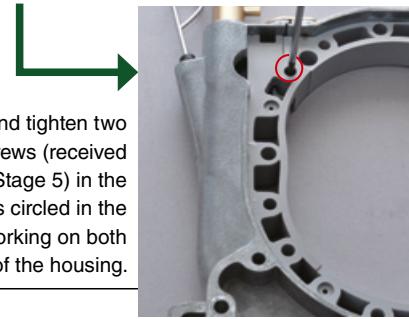
Now position part C of the housing (no.8 Stage 3) as shown in the photo.



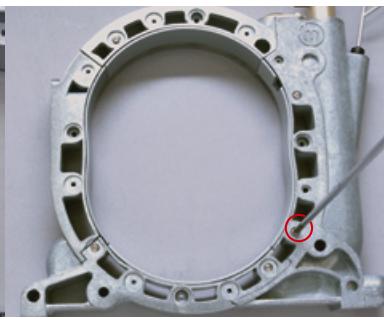
Insert and tighten another type B screw (received with Stage 5) in the hole circled in the photo.



Position part A of the housing (no.4 Stage 2) as shown in the photo.



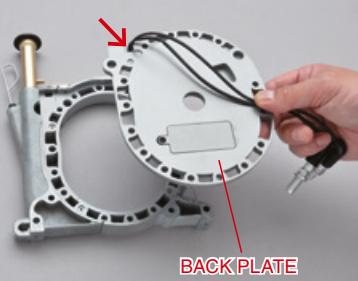
Insert and tighten two type B screws (received with Stage 5) in the holes circled in the photos, working on both sides of the housing.



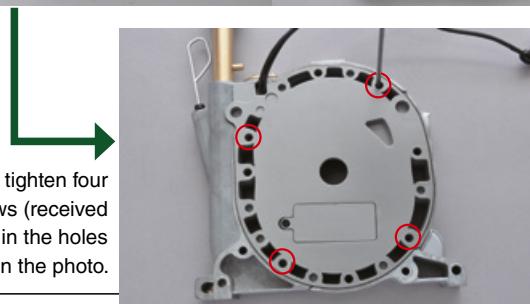
ROTARY ENGINE

Step

7 The back plate



Put the back plate on the rotor housing, ensuring it faces the same way as shown in the photo. The electric wires must come out of the notch indicated in the photo.



Insert and tighten four type E screws (received with Stage 9) in the holes circled in the photo.



FINAL RESULT



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

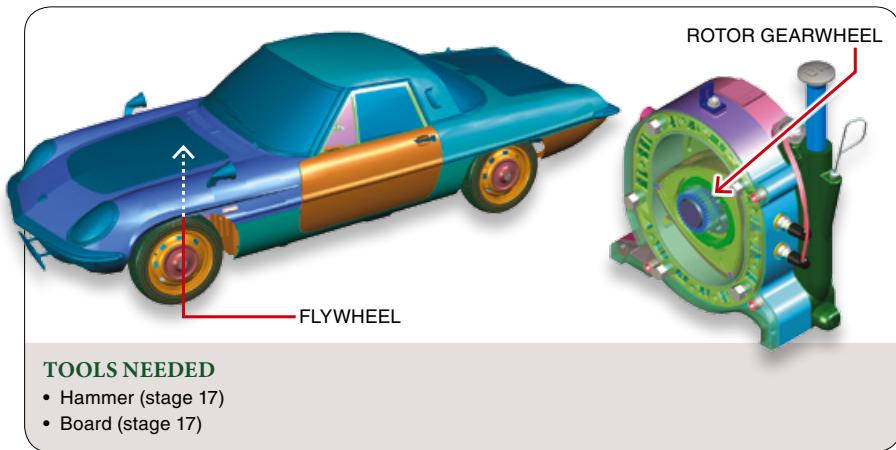
The next stage



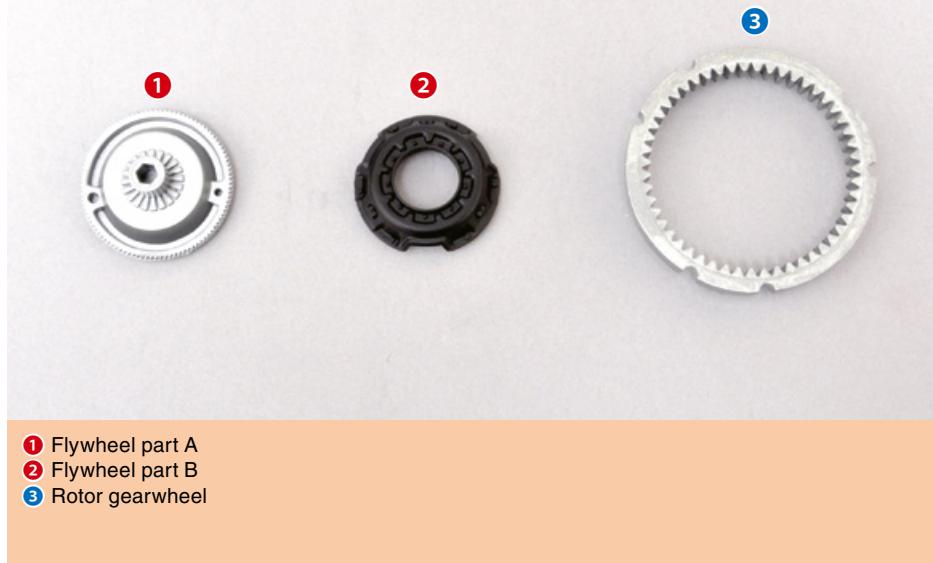


18 THE ROTOR – 2

In this stage you will install the flywheel on your 1:8 scale model car and continue to work on your 1:2 scale model of the rotary engine.

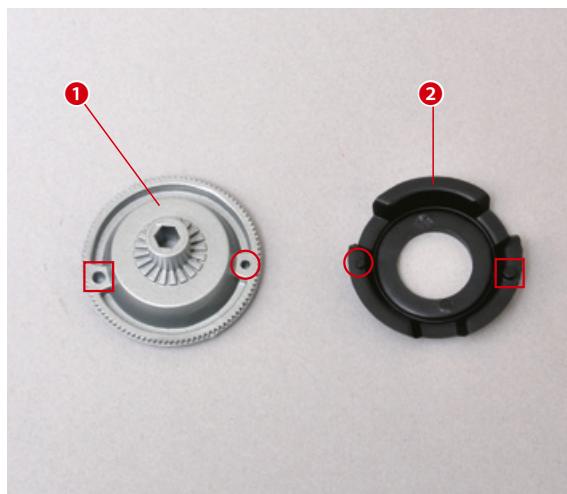


LIST OF PIECES

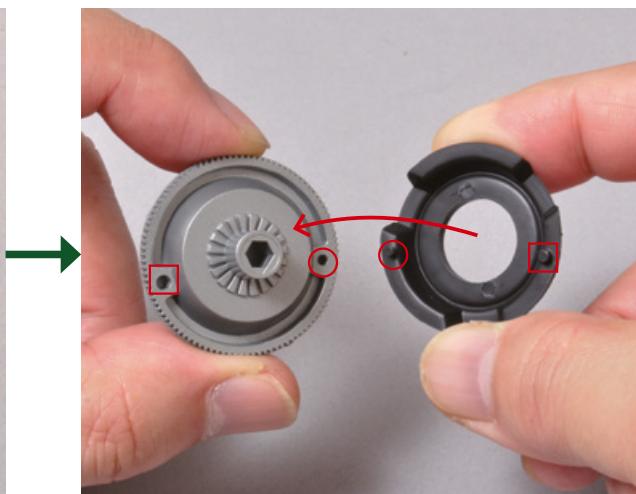


COSMO SPORT

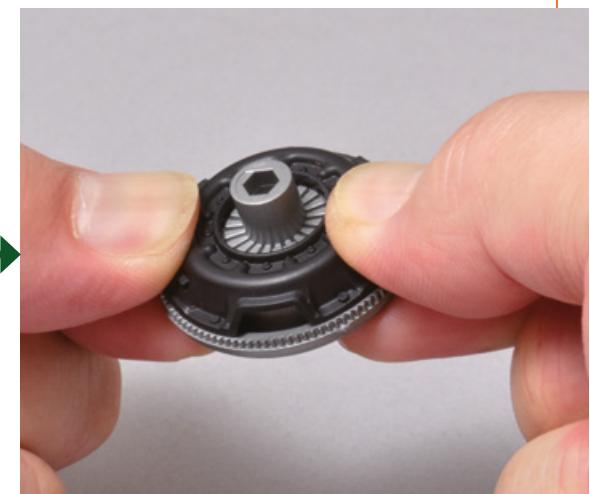
Step 1 The flywheel – 1



Look carefully at the two parts of the flywheel to identify the interlocking elements on each one.



Join the two parts of the flywheel as shown in the photo.



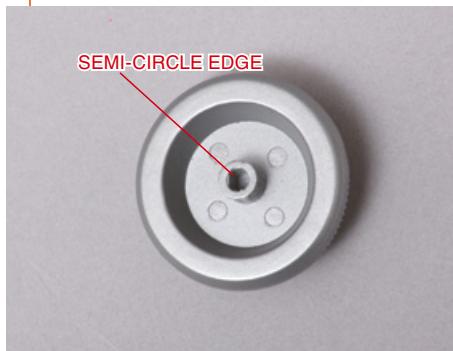
Press the two parts together until they click into place.



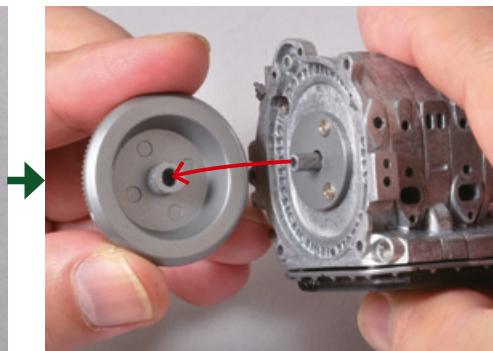
COSMO SPORT

Step

2 The flywheel – 2



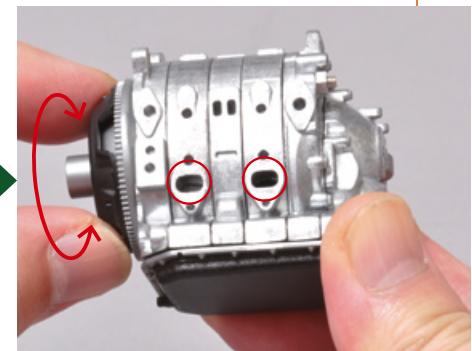
The hole in the back of the flywheel is a semi-circular shape.



Attach the flywheel to the back of the engine, as shown in the photo. The pieces are shaped to only fit together in one way.



Press the flywheel until it clicks into place.

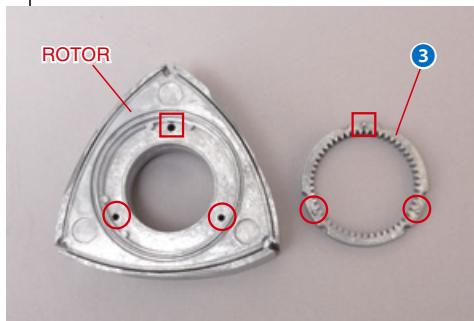


Turn the flywheel to make the engine rotors turn.

ROTARY ENGINE

Step

3 The rotor's gearwheel



Get the rotor you assembled in Stage 17. Find the interlocking elements indicated in the photo.

Insert the rotor's gearwheel in its housing. The different sized linchpins and holes mean that it only fits in one way.

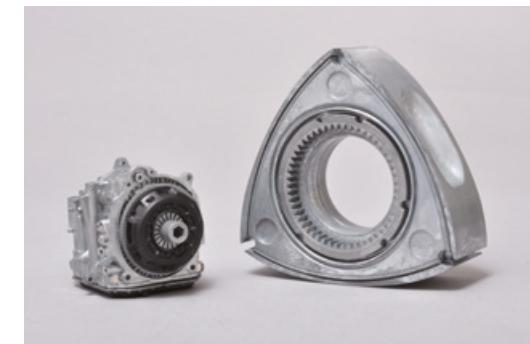


Put the board on top of the rotor and hammer it a few times to insert the gearwheel completely.



Make sure the edges of the gearwheel and the rotor are flush.

FINAL RESULT



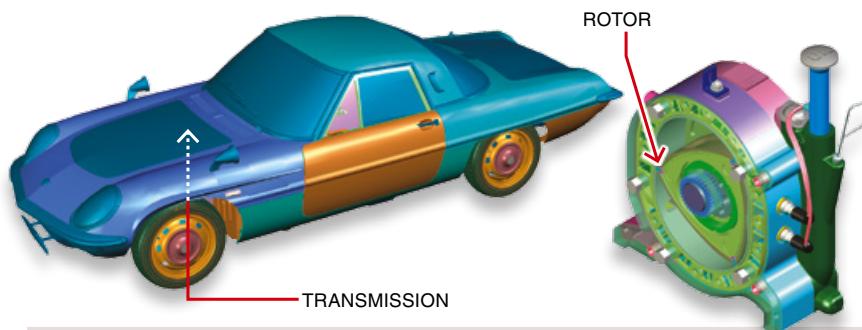
This is the result of this satisfying assembly session. Keep all of the pieces in a safe place.

The next stage



19 THE TRANSMISSION – 1

In this stage you will start working on the gear housing and you will finish assembling the 1:2 scale rotor.



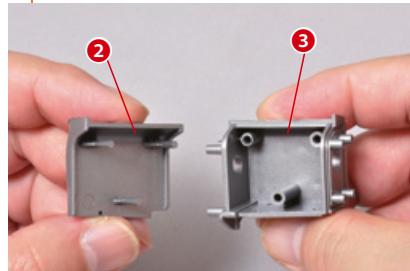
TOOLS NEEDED

- Cross screwdriver no. 1
- Board (Stage 17)
- Hammer (Stage 17)

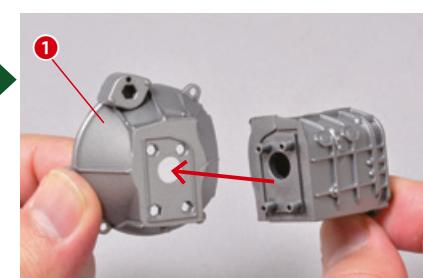
COSMO SPORT

Step
1

The gear housing



Align the two parts of the gear housing as shown in the photo and then join them.

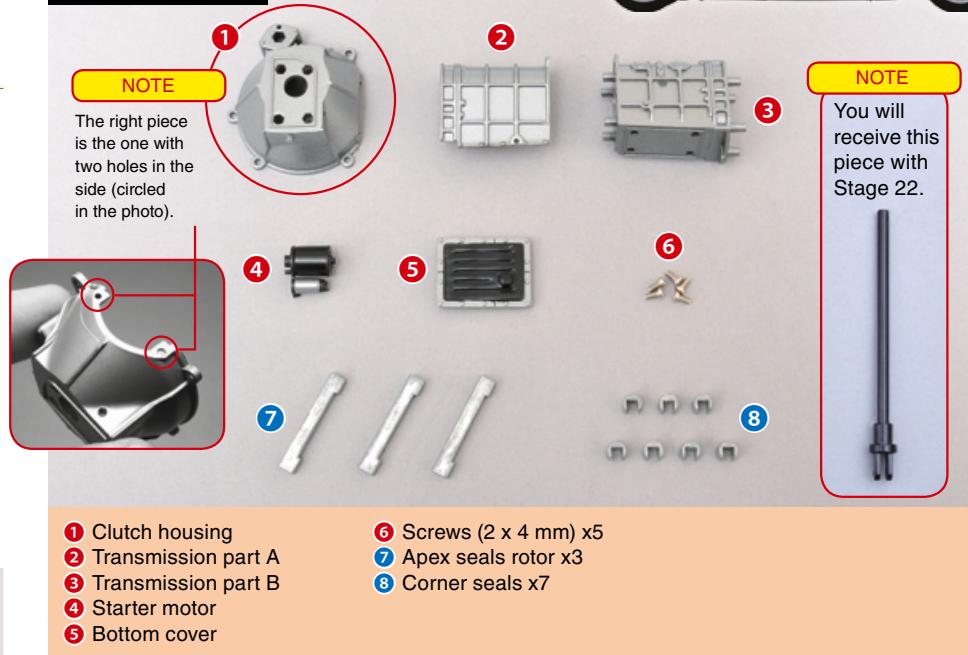


Join the gear housing and the clutch housing.



Press the pieces together until they click into place.

LIST OF PIECES



- ① Clutch housing
② Transmission part A
③ Transmission part B
④ Starter motor
⑤ Bottom cover

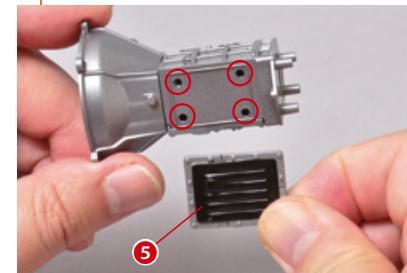
- ⑥ Screws (2 x 4 mm) x5
⑦ Apex seals rotor x3
⑧ Corner seals x7

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

COSMO SPORT

Step
2

The bottom cover and the starter motor



Position the bottom cover as shown in the photo and attach it to the gear housing.



Press it until it clicks into place.



Now attach the starter motor.

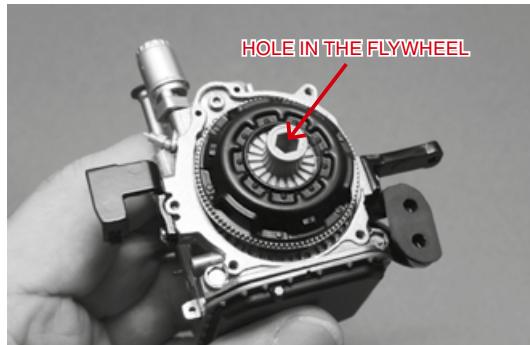




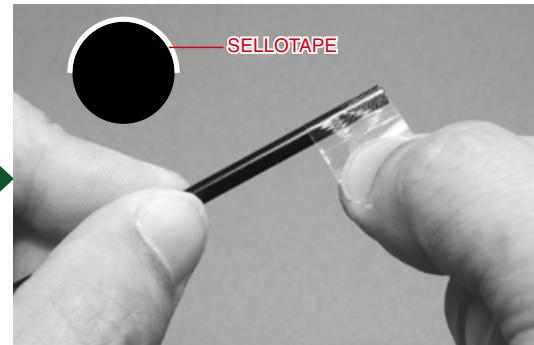
COSMO SPORT



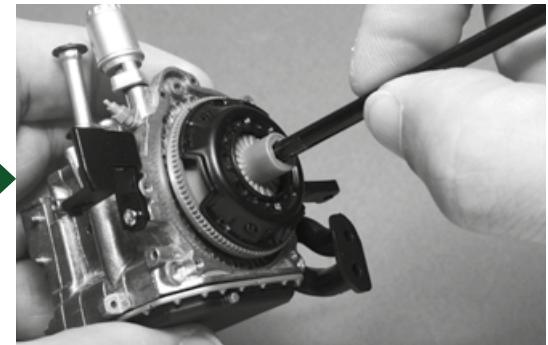
NOTE Before attaching the gear housing to the rotary engine, adjust the thickness of the driveshaft supplied with Stage 22.



Before attaching the gear housing, insert the driveshaft (received with Stage 22) into the hole in the flywheel. If the hole is too big for the driveshaft, you can use sellotape to adjust the thickness of the latter.



Wrap the sellotape around the end of the driveshaft to make it thicker.

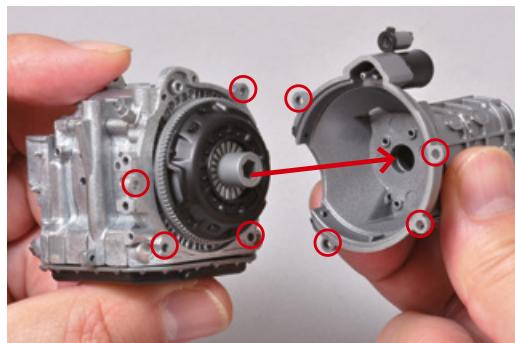


Insert the driveshaft into the hole and turn it to check the flywheel works. If you think it's necessary, you can wrap more sellotape around the driveshaft.

COSMO SPORT

Step
3

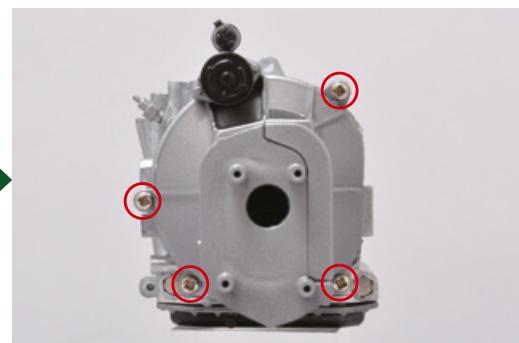
Attaching the part to the engine



Attach the part you assembled in the previous steps to the rotary engine, positioning the pieces as shown in the photo.



Secure the pieces with four of the screws you received with this stage.



Insert and tighten the four screws in the holes circled in the photo.



ROTARY ENGINE

Step
4**The apex seals of the rotor**

Insert the apex seals into the respective slots in the corners of the rotor.



Press all the apex seals into the slots so that no edges stick out of the rotor.



Lightly hammer the three apex seals until they are in the correct position.

ROTARY ENGINE

Step
5**The corner seals**

It's time to insert the corner seals. Side "A" must be facing the rotor.



Use the board and hammer to insert it completely.

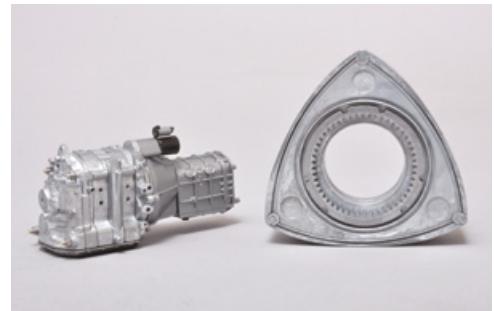
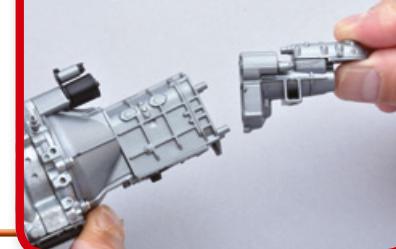


Insert the seal and press it gently into the hole.

Insert the rest of the corner seals – on both sides of the rotor – in the same way.

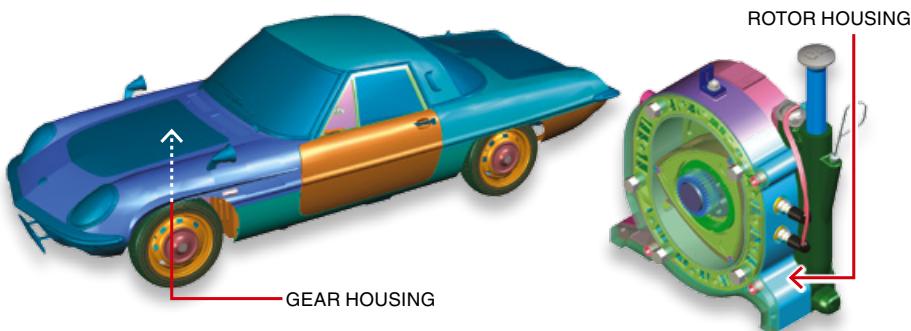
**FINAL RESULT**

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

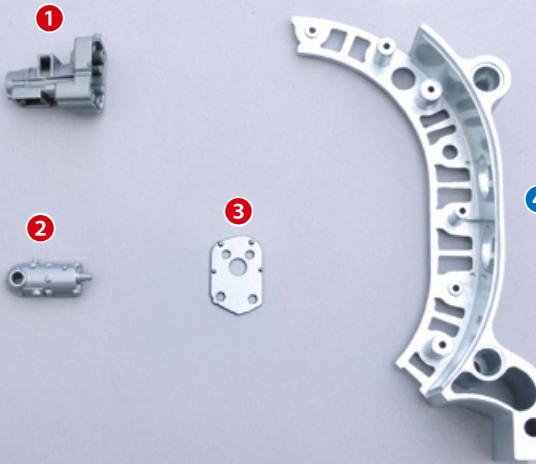
**The next stage**

20 THE TRANSMISSION – 2

In this stage you will continue to work on the gear housing.



LIST OF PIECES



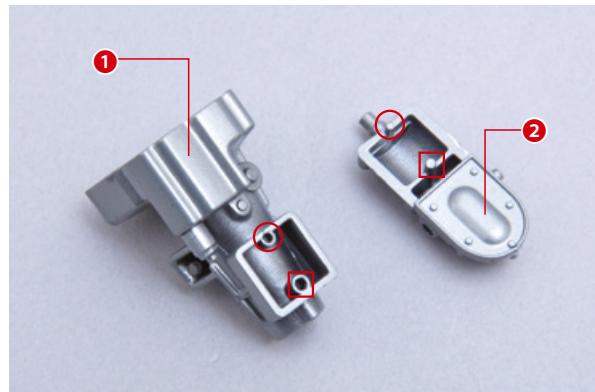
- ① Gearbox part A
- ② Gearbox part B
- ③ Mount plate
- ④ Rotor housing part I

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

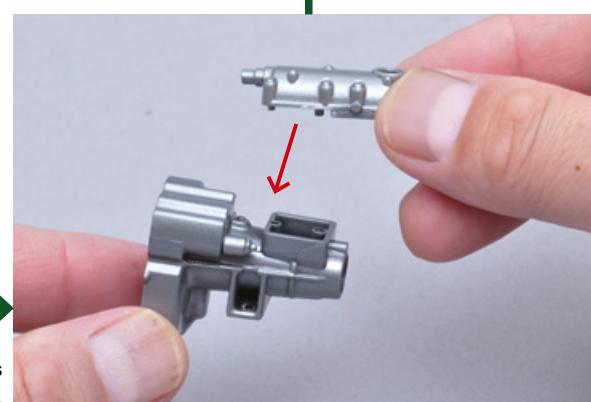
COSMO SPORT

Step
1

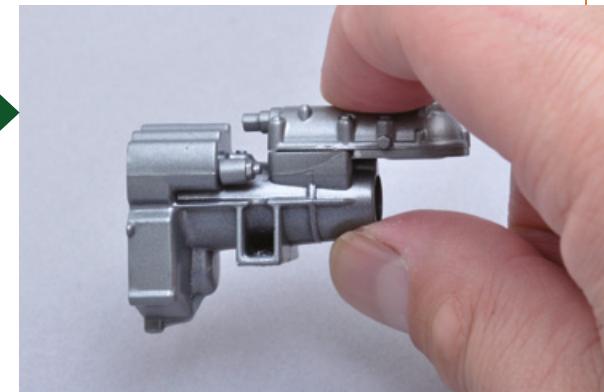
The gearbox – 1



Look at the two parts of the gearbox carefully.



Attach the two parts as shown in the photo.



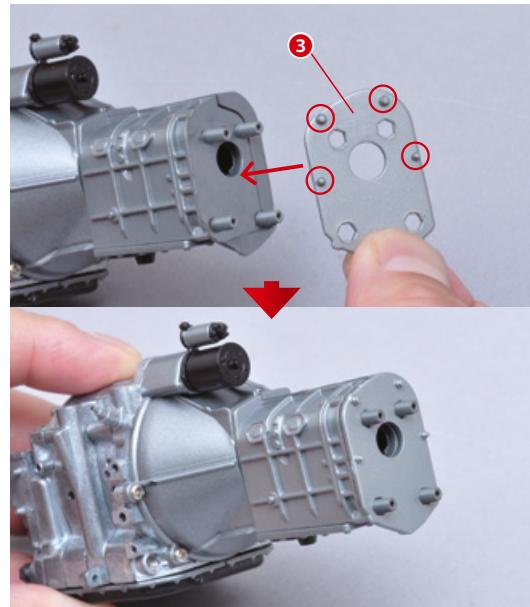
Press them together until they click into place.



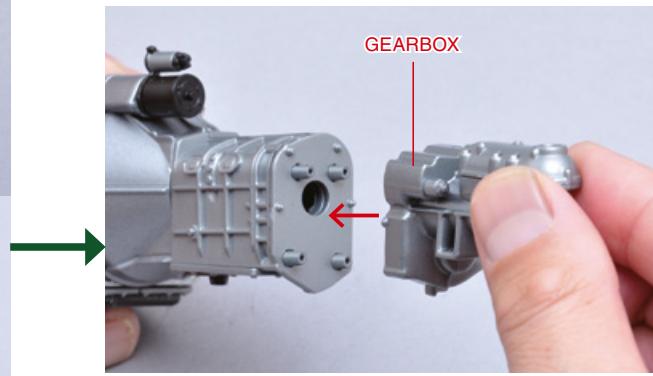
COSMO SPORT

Step

2 The gearbox – 2

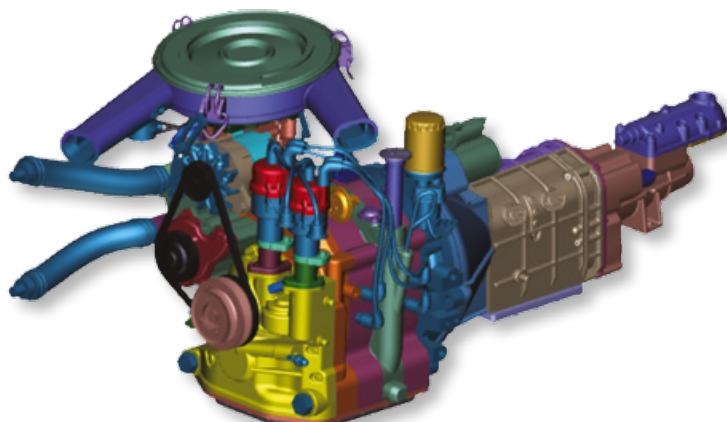
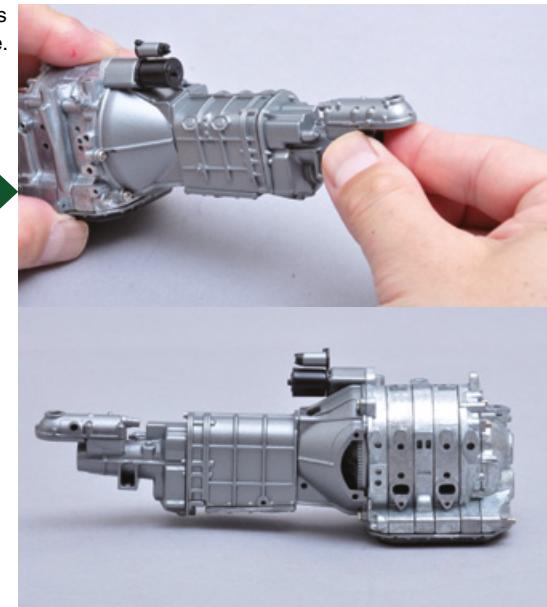


Position the mount plate as shown in the photo and attach it to the gear housing.



Attach the gearbox to the gear housing as shown in the photo.

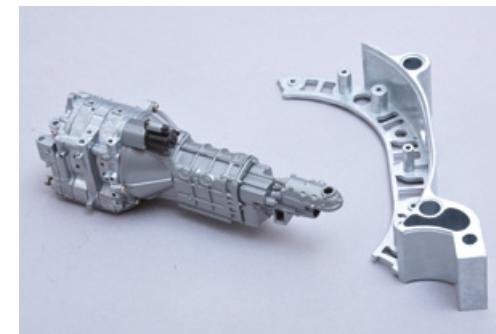
Press the piece until it clicks into place.



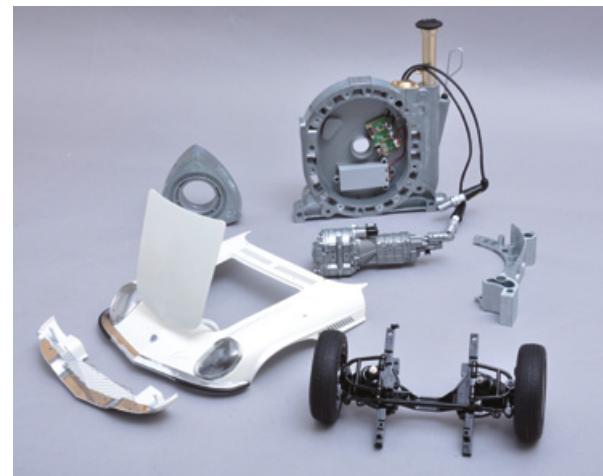
In this image you can admire all the components of a rotary engine. Every detail has been accurately reproduced.

* The final appearance of the engine may vary from that of the one depicted here.

FINAL RESULT



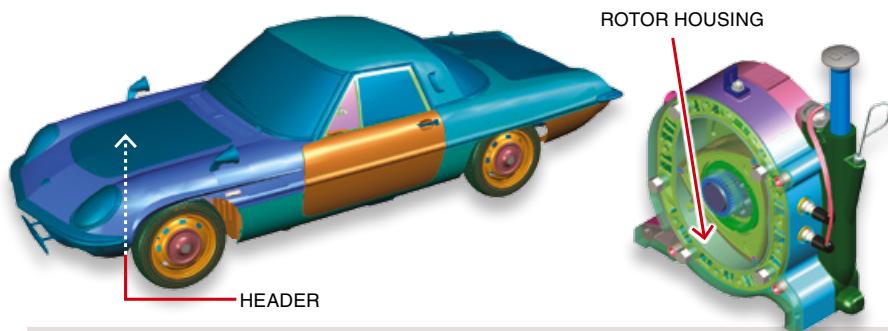
Keep what you have assembled in this stage in a safe place along with any pieces you haven't used.



Here's a recap of all the parts you have assembled so far.

21 DETAILS

In this stage you will attach various details to your 1:8 scale rotary engine. Handle the pieces carefully so as not to lose or damage them.



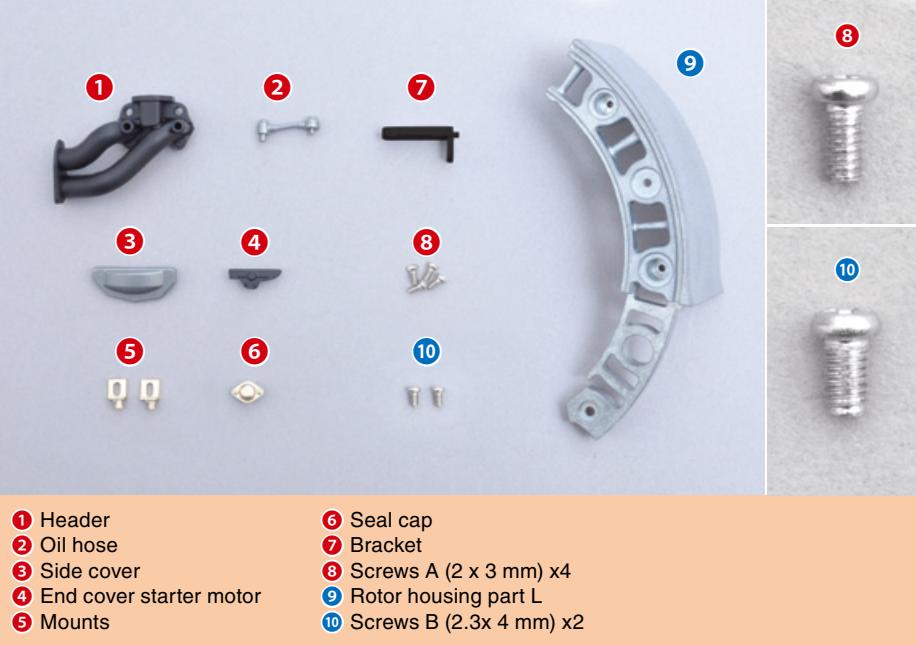
TOOLS NEEDED

- Cross screwdriver no. 1

RECOMMENDED TOOLS

- Synthetic rubber-based adhesive

LIST OF PIECES

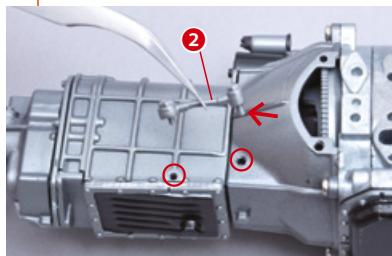


• Parts for the 1:8 scale Mazda Cosmo Sport model car • Parts for the 1:2 scale rotary engine

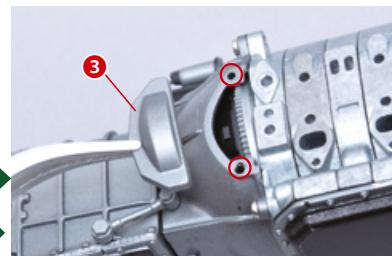
COSMO SPORT

Step
1

Details – 1



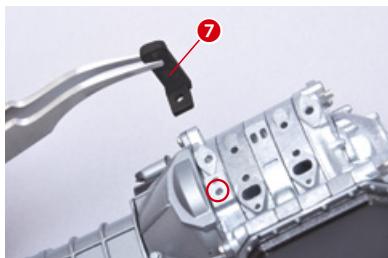
Position the oil hose as shown in the photo and insert the two linchpins into the circled holes.



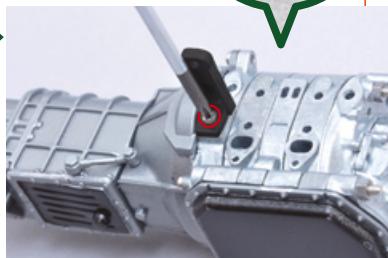
Insert the linchpins on the side cover into the circled holes.



Now position the bracket as shown in the photo.



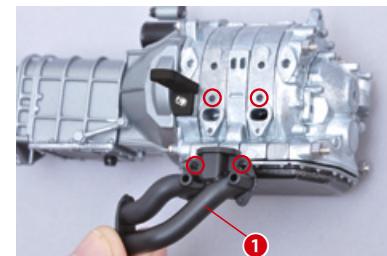
Use a type A screw to attach the bracket to the engine.



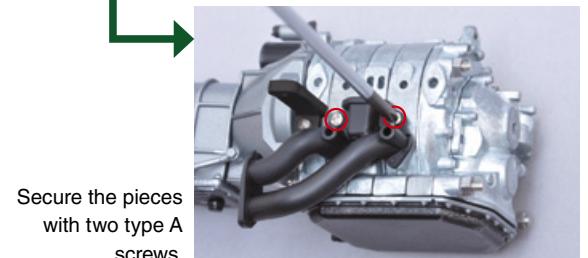
COSMO SPORT

Step
2

Details – 2



Position the header so that the holes circled in the photo are all aligned.



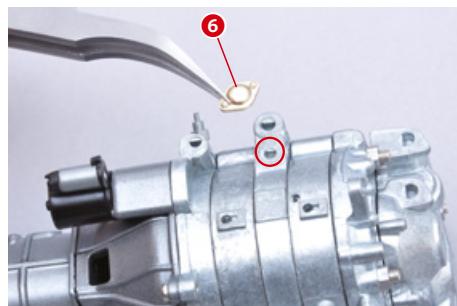
Secure the pieces with two type A screws.



COSMO SPORT

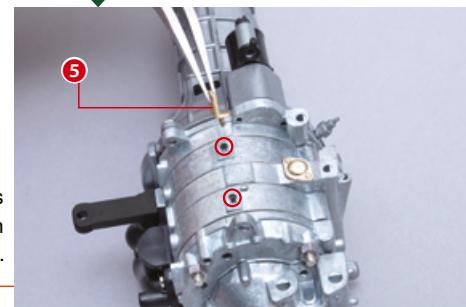
Step
3

Details – 3



Insert the seal cap into the hole circled in the photo. The pieces are shaped to only fit one way.

This is what the correctly installed cap and mounts look like.

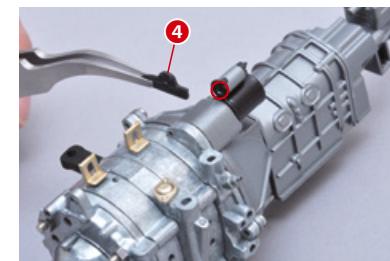


Insert the two mounts into the holes circled in the photo.

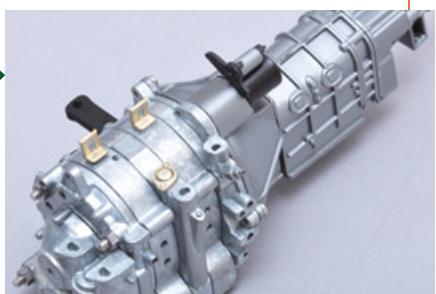
COSMO SPORT

Step
4

Details – 4



Attach the end cover of the starter motor to the gear housing using the respective interlocking elements.

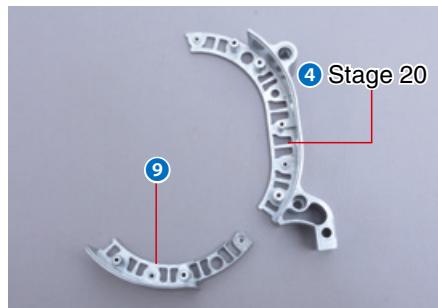


If the piece doesn't stay in place, you can use a little adhesive to secure it.

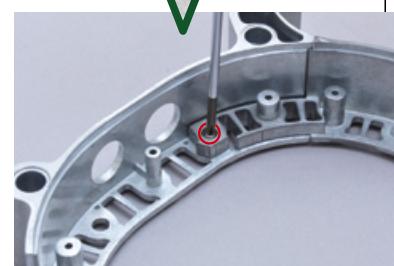
ROTARY ENGINE

Step
5

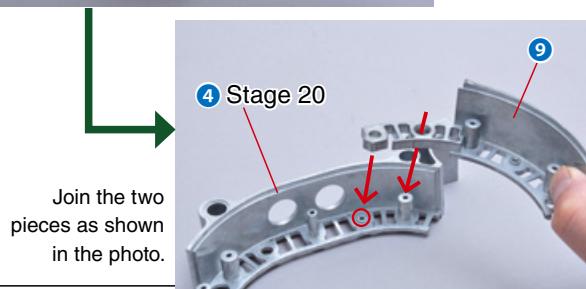
The rotor housing



Lay out part I (received with Stage 20) and part L of the housing as shown in the photo.



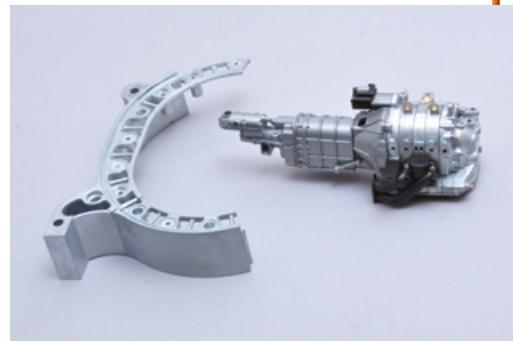
Insert and tighten a type B screw in the circled hole.



Join the two pieces as shown in the photo.

FINAL RESULT

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

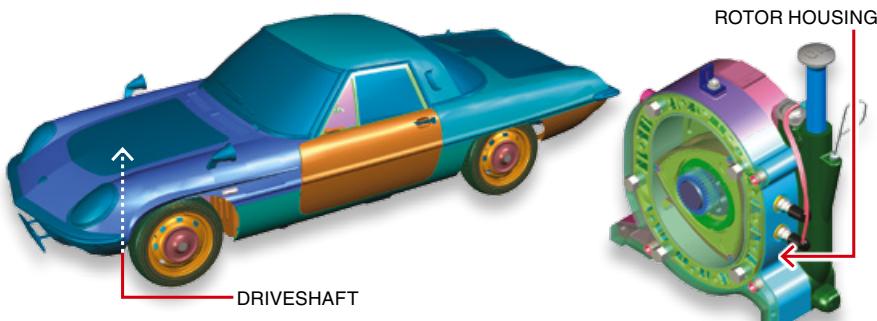


The next stage



22 THE DRIVESHAFT

In this stage you will add more details and attach the driveshaft to the engine unit. You will also attach a piece of the 1:2 scale engine.



TOOLS NEEDED

- Cross screwdriver no. 1

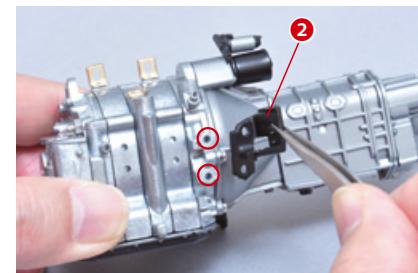
RECOMMENDED TOOLS

- Synthetic rubber-based adhesive
- File or sandpaper

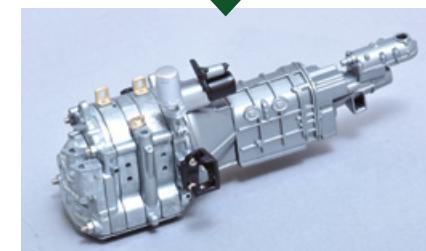
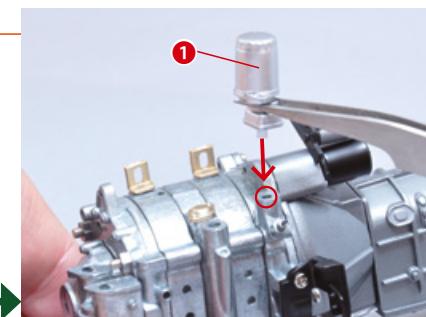
COSMO SPORT

Step 1

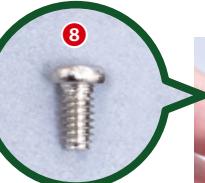
The oil filter



Position the engine mount by aligning the circled holes.

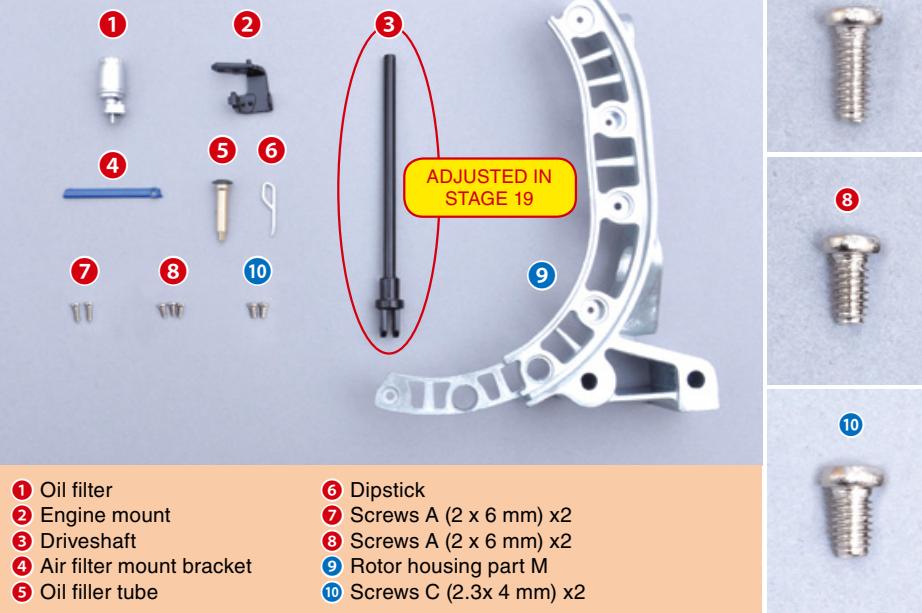


Attach the oil filter as shown in the photo.
If necessary, you can put a little adhesive in the hole.



Secure the pieces with two type B screws.

LIST OF PIECES



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

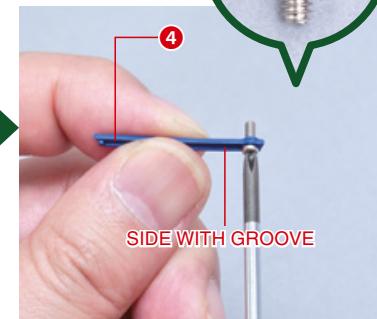
COSMO SPORT

Step 2

The air filter mount



Remove the circled screw.



Insert a type A screw in the hole in the air filter mount.

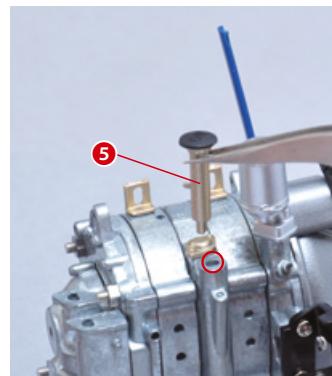


Now attach the air filter mount using the hole you previously removed the screw from.

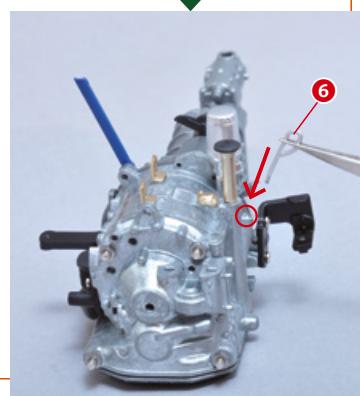
COSMO SPORT

 Step
3

The oil filler tube



Insert the oil filler tube into the hole circled in the photo.

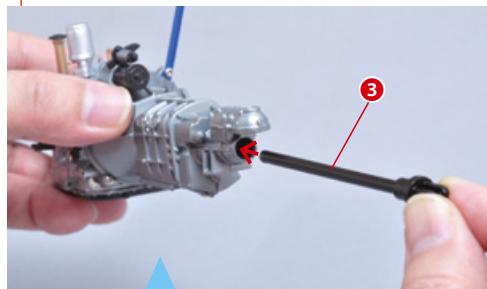


Insert the dipstick into the circled hole.
Be careful: the dipstick is very delicate and could damage easily.

COSMO SPORT

 Step
4

The driveshaft



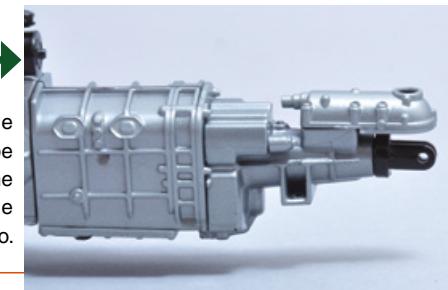
Insert the driveshaft into the hole circled in the photo.



Insert it at the angle shown in the photo. The driveshaft must go into the hole in the flywheel.



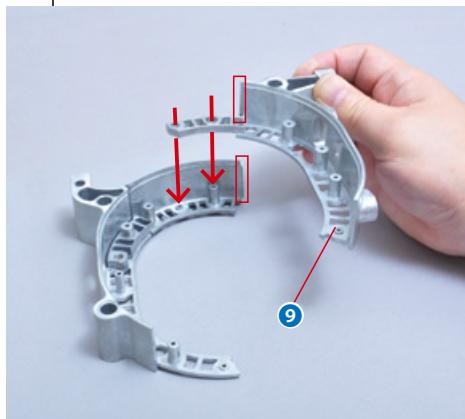
Push it right in. The driveshaft must be in the same position as the one in the photo.



ROTARY ENGINE

 Step
5

The rotor housing



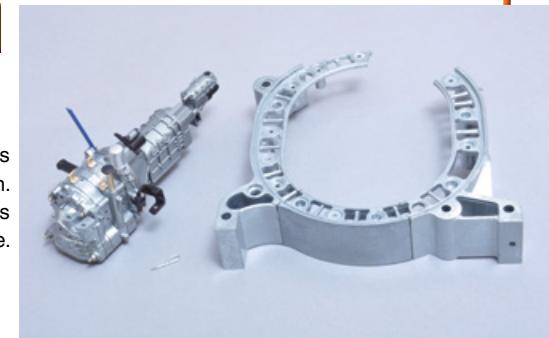
Get the rotor housing unit you assembled in Stage 21 and then attach part M. If you have any problems, file the two ends indicated in the photo.



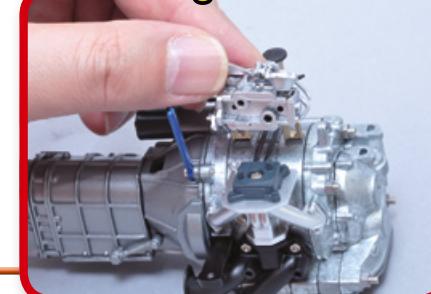
Secure the pieces with a type C screw.

FINAL RESULT

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

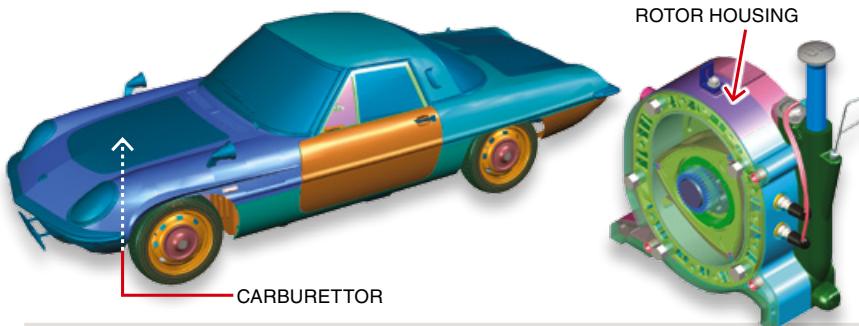


The next stage



23 THE CARBURETTOR

In this stage you will install the carburettor and inlet manifold on your 1:8 scale model. Handle any small, delicate pieces with care.



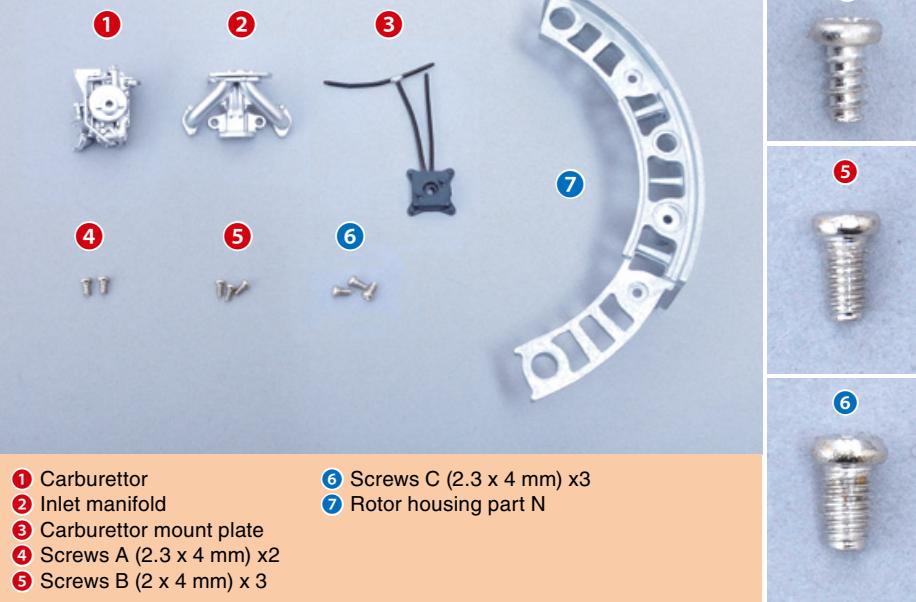
TOOLS NEEDED

- Cross screwdriver no. 1

RECOMMENDED TOOLS

- File or sandpaper

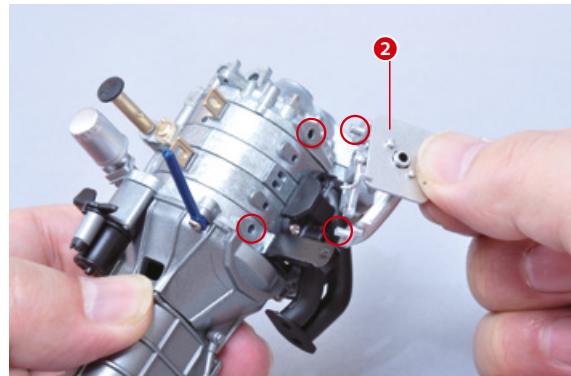
LIST OF PIECES



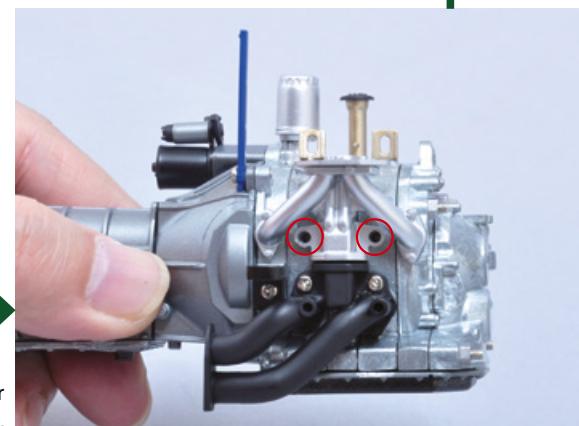
COSMO SPORT

Step
1

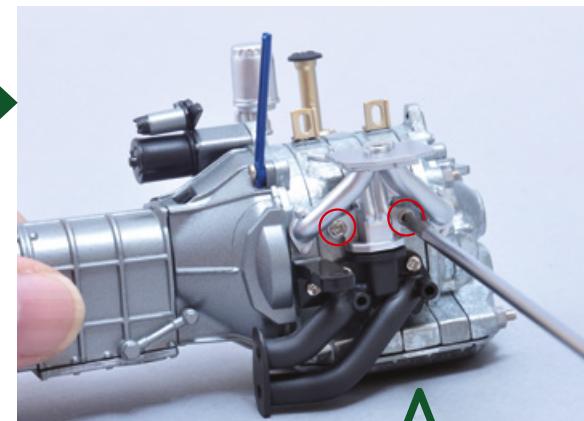
The inlet manifold



Insert the two linchpins on the inlet manifold into the corresponding holes in the side of the engine.



Ensure that the holes for the screws are aligned.

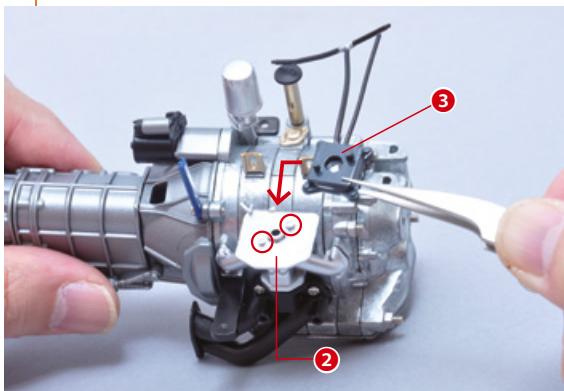


Insert and tighten two type B screws in the circled holes.

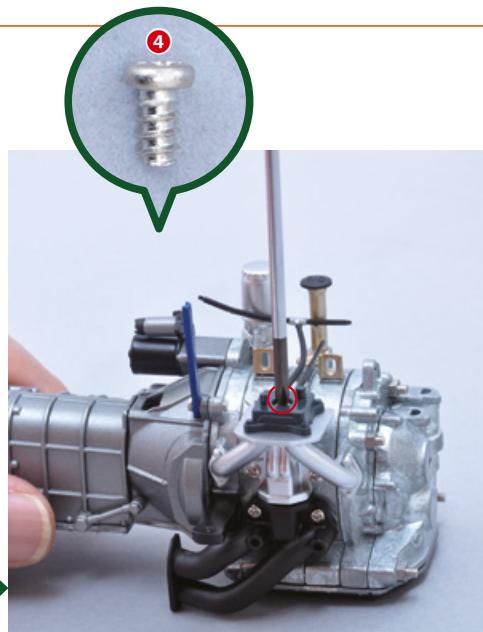


COSMO SPORT

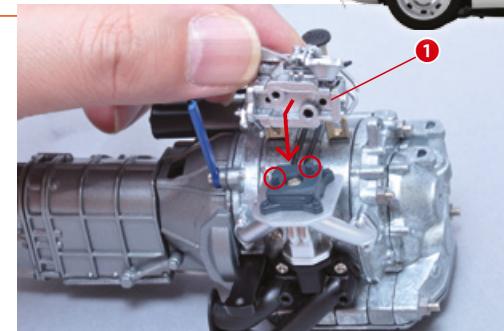
Step 2 The carburettor



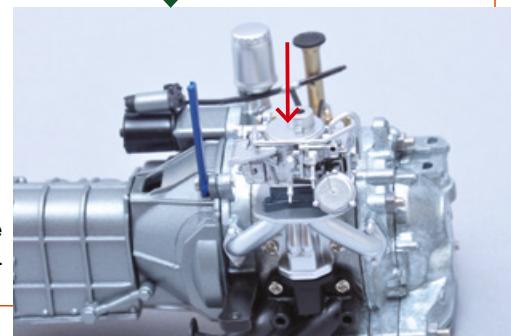
Attach the carburettor mount plate to the inlet manifold. The pieces are shaped to only fit together in one way.



Insert and tighten a type A screw in the circled hole.



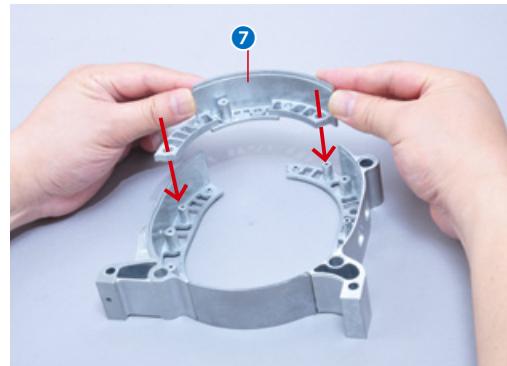
Now attach the carburettor to its mount plate. The pieces are shaped to only fit together in one way.



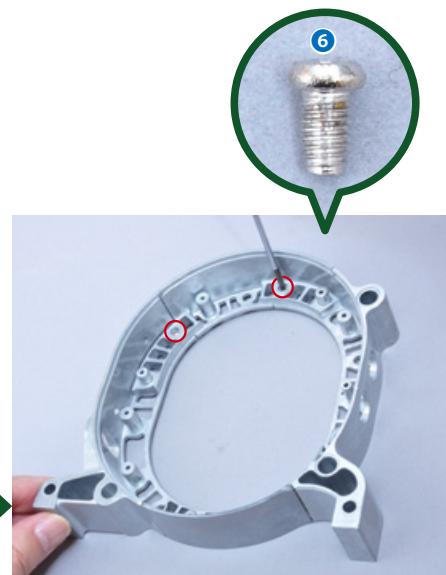
Press down until the piece clicks into place.

ROTARY ENGINE

Step 3 The rotor housing



Attach part N of the rotor housing to the part you assembled in the previous stages.



Insert and tighten two type C screws in the circled holes.

FINAL RESULT

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



The next stage

