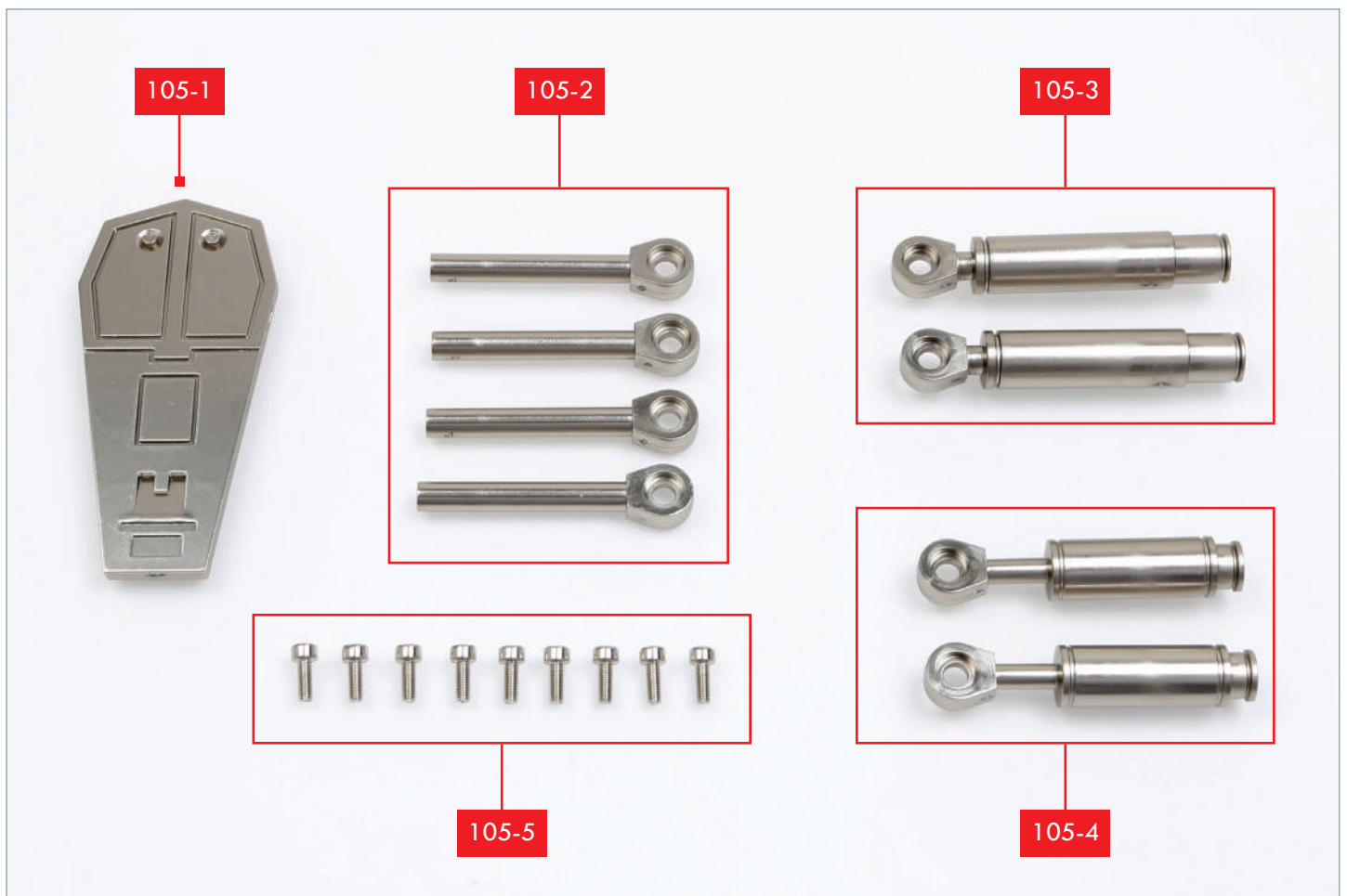
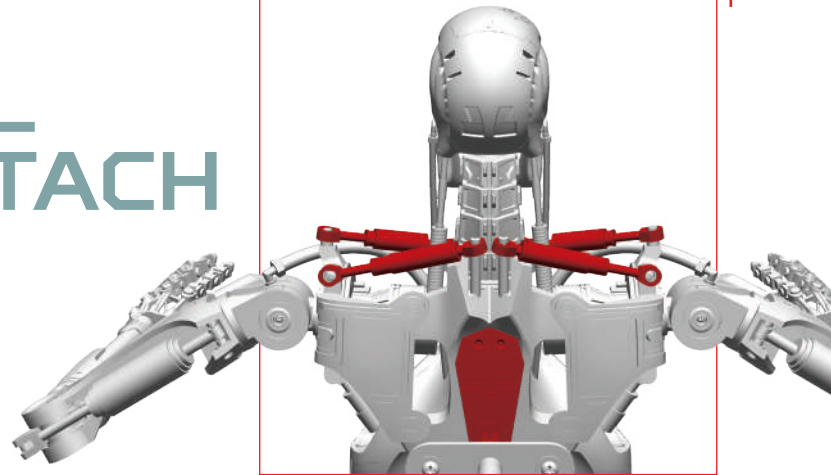


STAGE 105: FIT BACK PANEL DETAIL AND ATTACH SHOULDER CONNECTORS

Attach a panel to the back of the model, and use hex screws to connect four shoulder connectors.

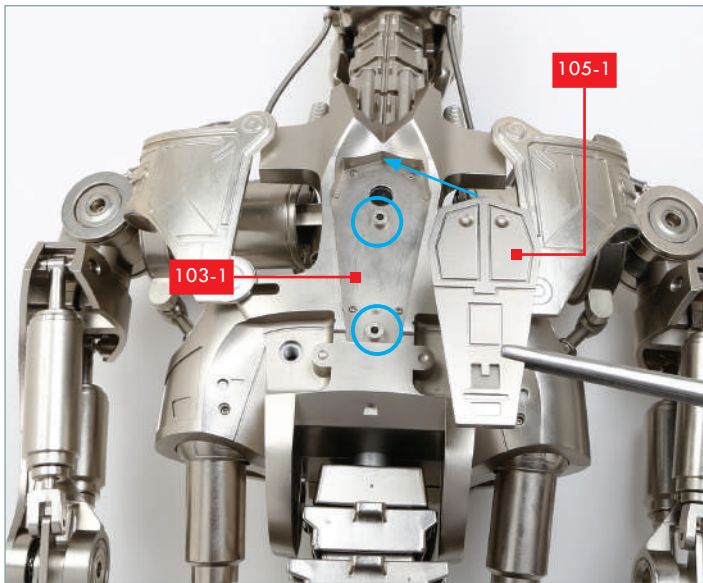


LIST OF PIECES

105-1	Back panel detail	105-4	2x Shoulder connectors
105-2	4x Shoulder connector shafts	105-5	9x Hex socket screws (3x8 mm) (1 spare)
105-3	2x Shoulder connectors		

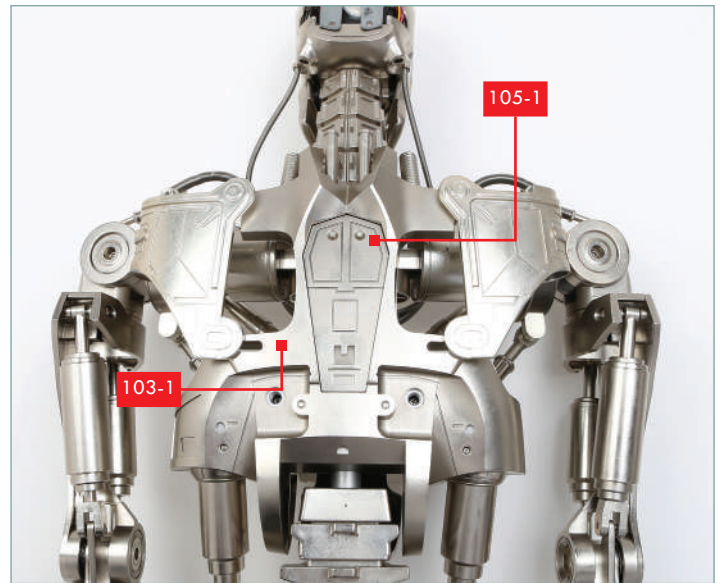
YOU WILL ALSO NEED

Model assembly from stage 103,
Allen key supplied with stage 103.



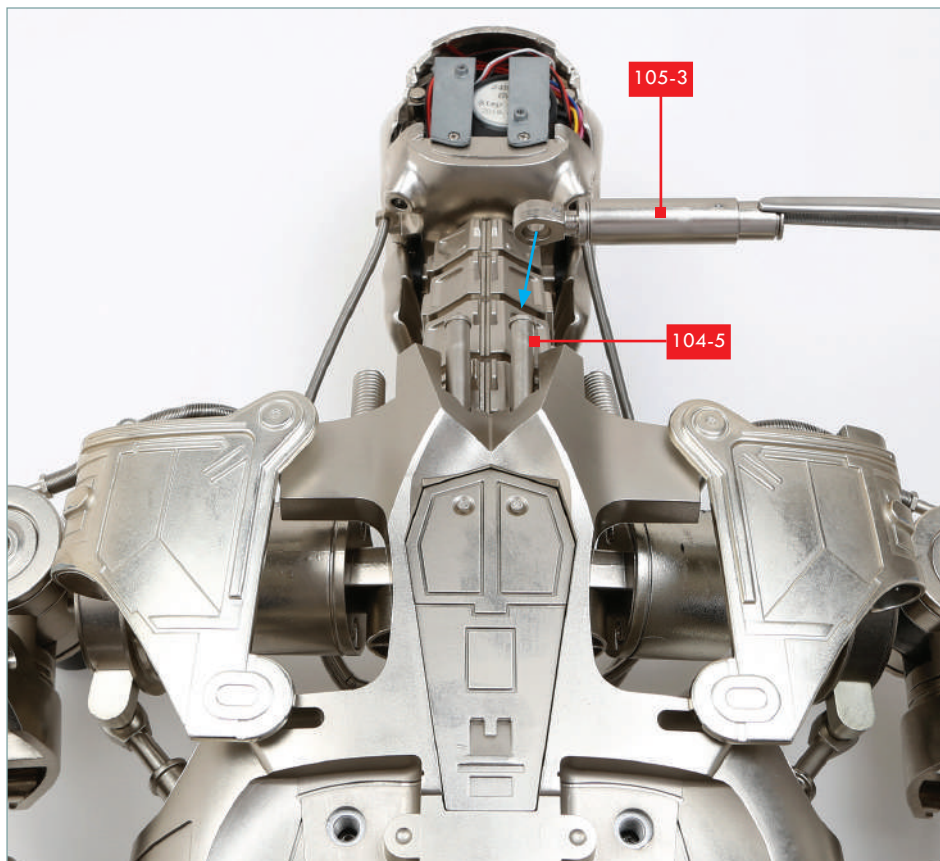
STEP 1

Take the back panel detail **105-1** and fit it into the recess in the back panel **103-1**. Two pegs on the inside of part **105-1** fit into the raised sockets in part **103-1** (circled). This is a push-fit connection.



STEP 2

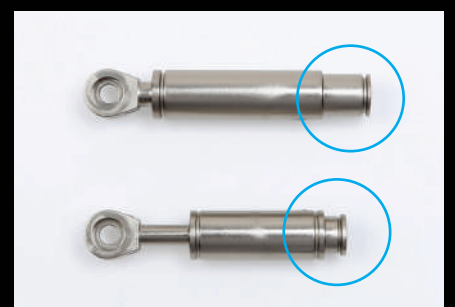
This shows part **105-1** in place.



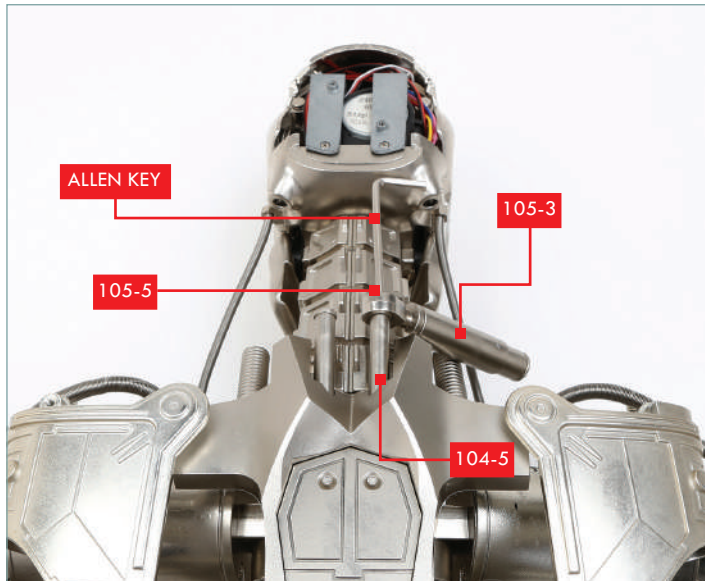
STEP 3

Take one of the shoulder connectors **105-3** and fit the recess around the hole over the end of the right-hand shaft **104-5**.

EXPERT TIP!

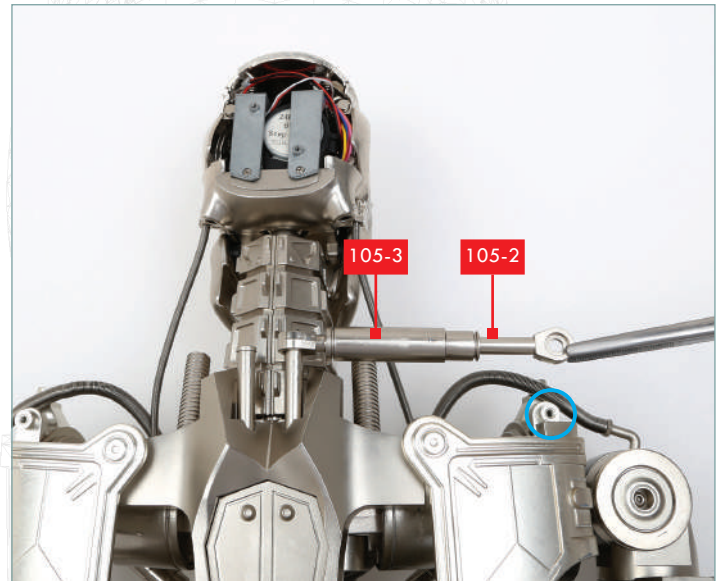


Note the difference between the ends of parts **105-3** and **105-4** (circled). Parts **105-3** are fitted to the back of the shoulder; parts **105-4** are fitted to the top of the shoulder.



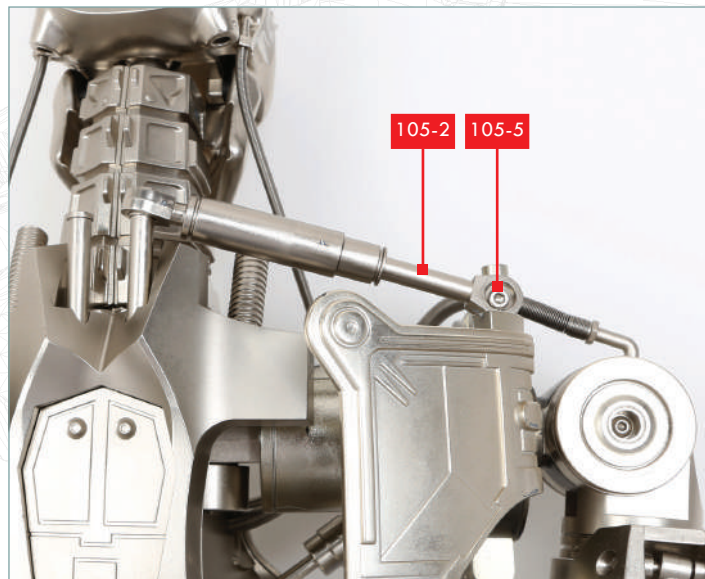
STEP 4

Fit a hex screw **105-5** through the hole in part **105-3** and into the socket in the top of part **104-5**. Fix in place using the Allen key supplied with stage 103. Do not overtighten as part **105-3** needs to be able to sit at an angle.



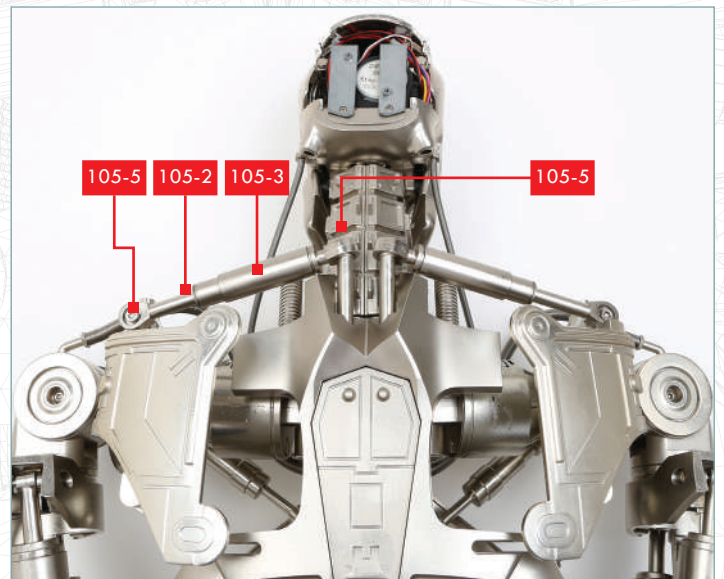
STEP 5

Fit one of the shafts **105-2** into the end of part **105-3**. Identify the fixing point on the shoulder accessory where the hole on the end of the shaft will fit (circled).



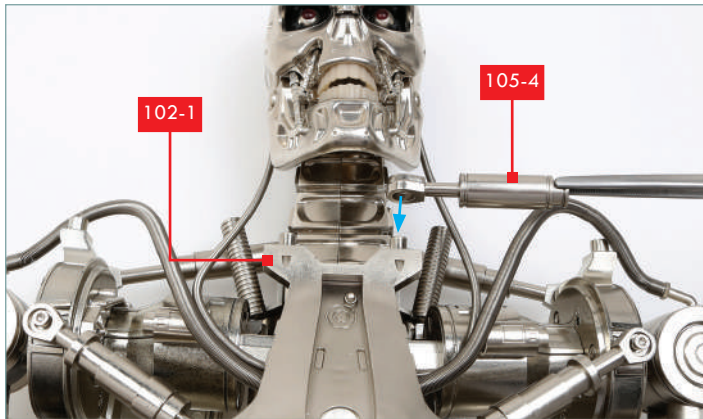
STEP 6

Fix part **105-2** in place using a hex screw **105-5**.



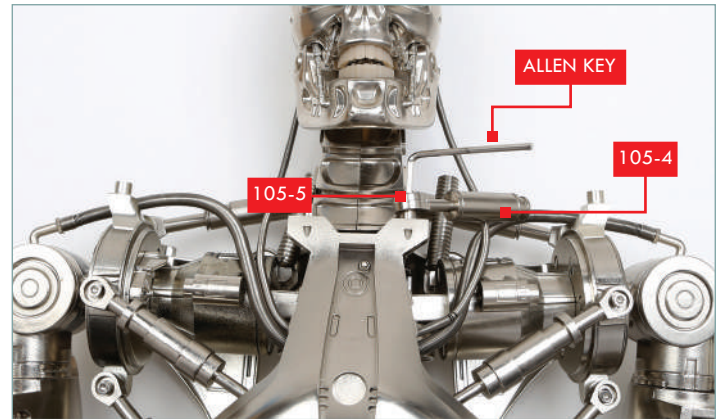
STEP 7

Repeat steps 3 – 6 to fit the second part **105-3** and shaft **105-2** in place on the left-hand side of the model using two hex screws **105-5**.



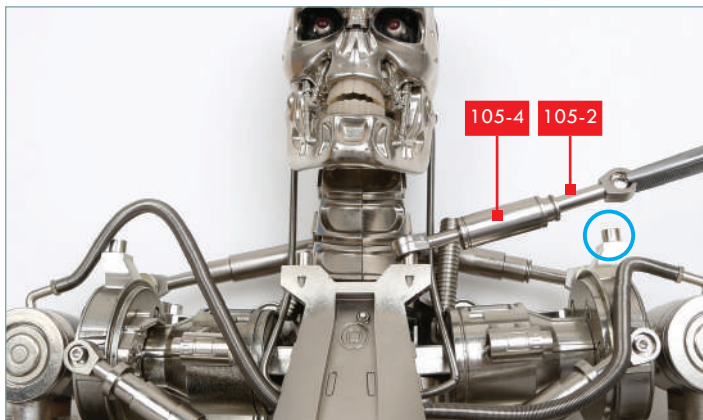
STEP 8

Carefully turn your model on its back. Take one of the parts **105-4** and fit the recessed hole over the socket on the top of the chest casing **102-1** (arrow).



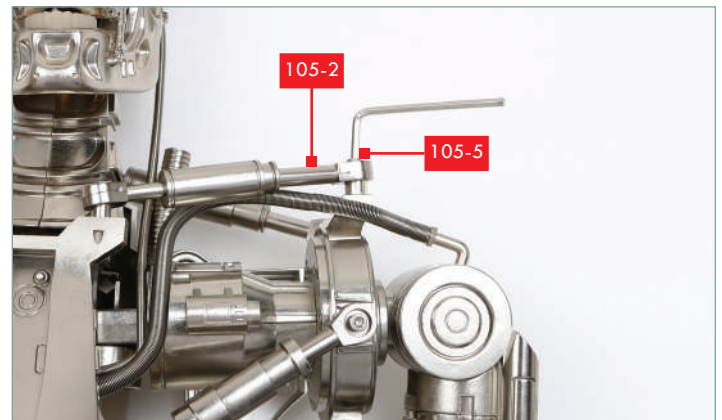
STEP 9

Use a hex screw **105-5** to fit part **105-4** in place. Do not overtighten, as the connector **105-4** needs to have movement.



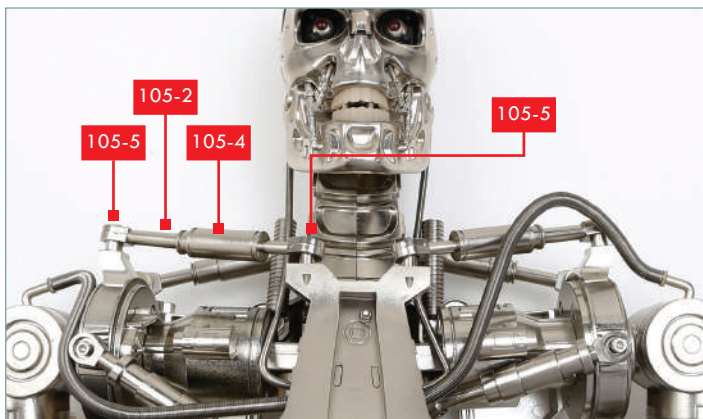
STEP 10

Slide the third connector shaft **105-2** into the end of part **105-4**. Identify the fixing point for part **105-2** on the shoulder accessory (circled).



STEP 11

Use the Allen key and a hex screw **105-5** to fix part **105-2** in place. Do not overtighten as there needs to be movement in the shoulder connectors.



STEP 12

Repeat steps 8 – 11 to fit the remaining connector **105-4** and shaft **105-2** in place on the right shoulder, using two hex screws **105-5**.

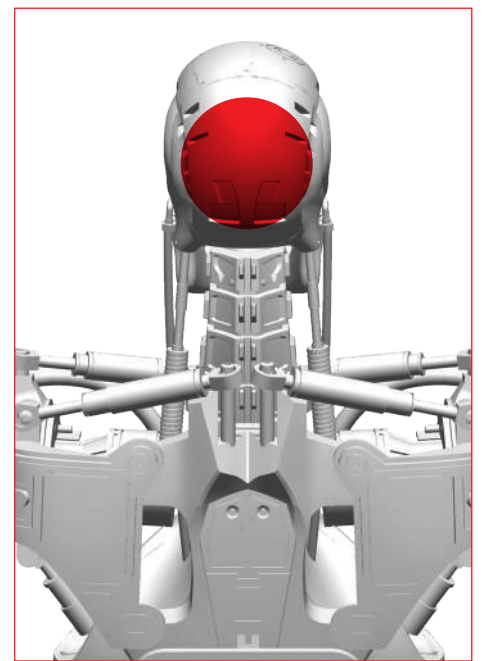
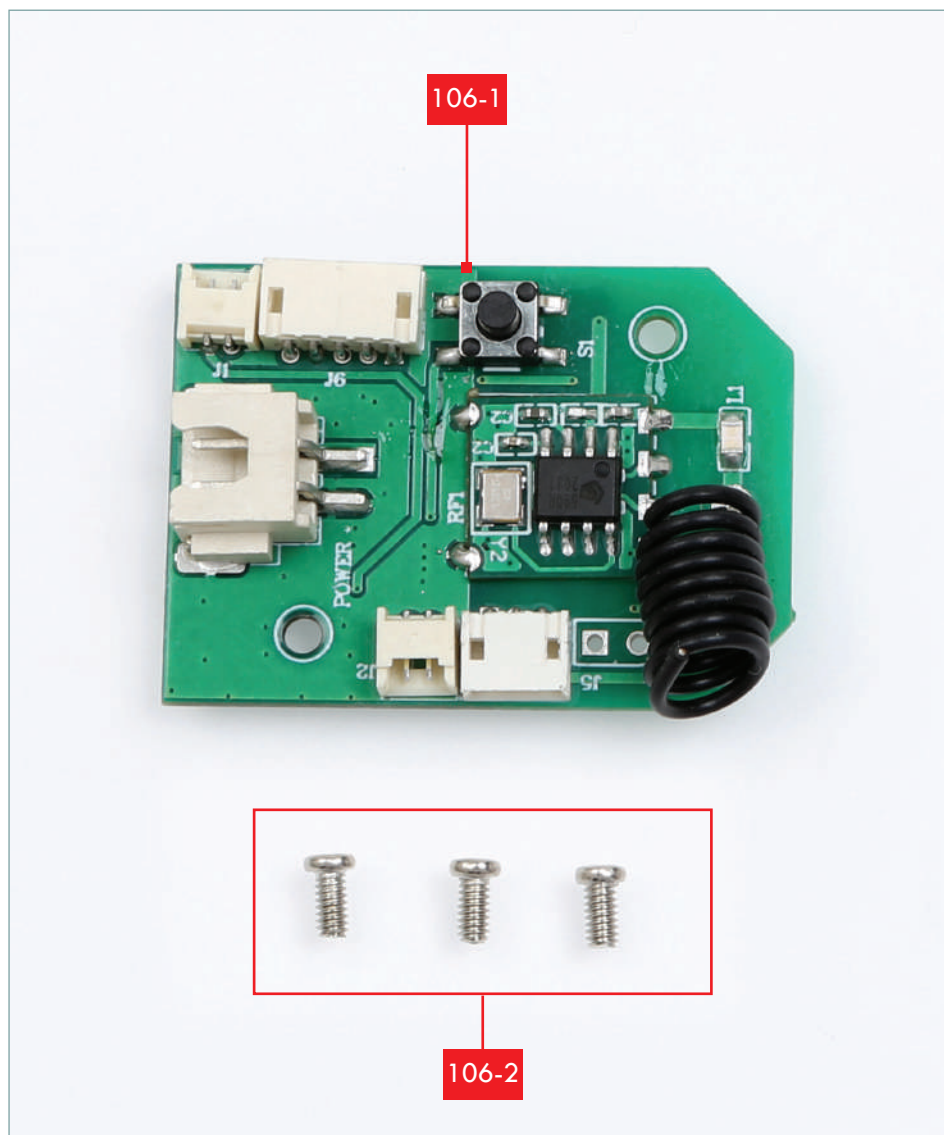


STAGE COMPLETE!

A detail has been fitted to the back panel and connectors have been fitted to the top and back of the shoulders.

STAGE 106: INSTALL THE CIRCUIT BOARD

Insert the circuit board into the back of the Terminator T-800 Endoskeleton's head.

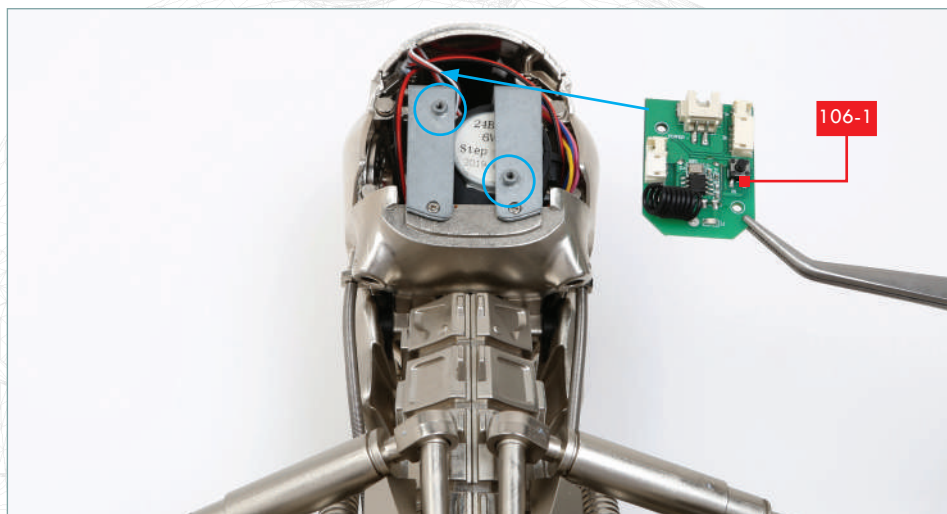


LIST OF PIECES

- | | |
|-------|------------------------------------|
| 106-1 | Circuit board |
| 106-2 | 3x PM screws (2x4 mm)
(1 spare) |

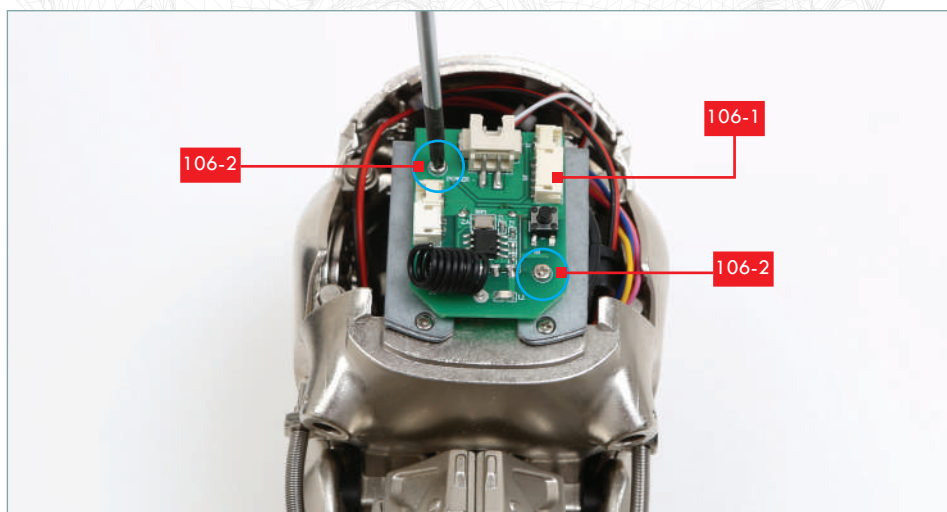
YOU WILL ALSO NEED

Model assembly from stage 105,
a fine cross-head screwdriver.



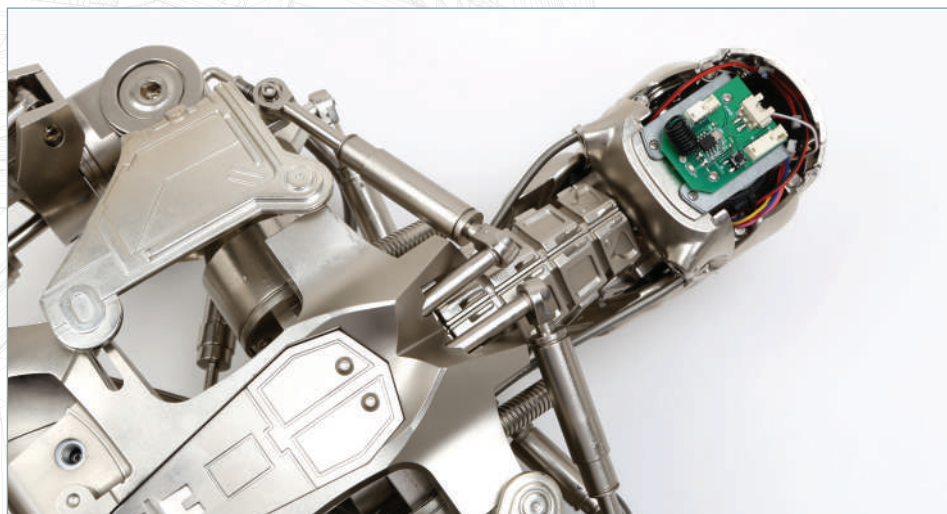
STEP 1

Position your model face down on the work surface. Position the circuit board **106-1** on the plates in the back of the head so that the two holes in the circuit board are aligned with the raised screw sockets (circled).



STEP 2

Fix the circuit board **106-1** in place using two PM screws (**106-2**, circled).

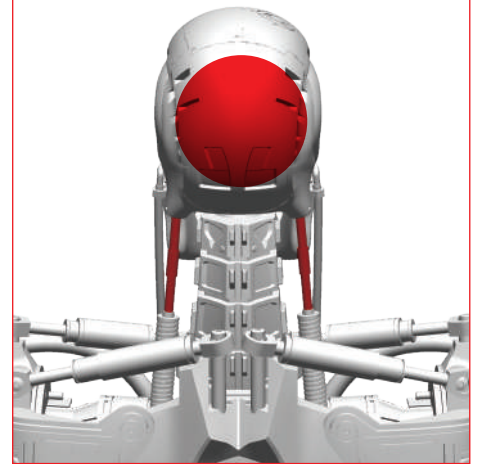


STAGE COMPLETE!

The main circuit board has been fitted in the back of the head.

STAGE 107: CONNECT THE BATTERY, ATTACH THE BACK OF THE HEAD, AND FIT AN LED INTO ITS HOUSING

Insert the battery box, connect it to the circuit board, and use magnets to close the skull - then build out a searchlight for the base.



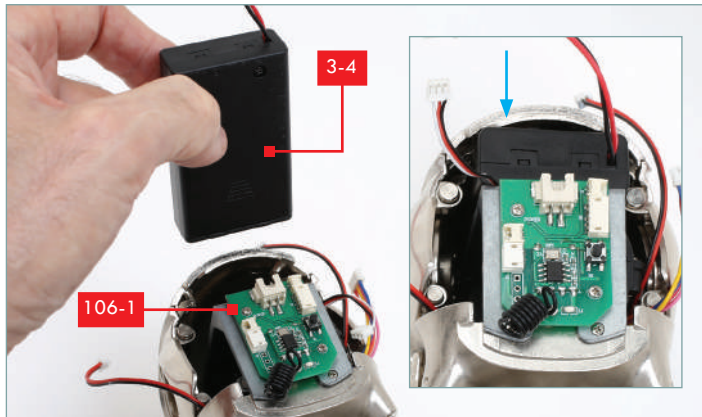
LIST OF PIECES

107-1	Back of head
107-2	2x Magnets (5mm diameter)
107-3	2x Magnets (3mm diameter)
107-4	2x Neck connectors
107-5	LED and cable
107-6	Lens for searchlight
107-7	LED housing
107-8	LED housing
107-9	Searchlight stand
107-10	Rubber washers
107-11	3x PWB screws (1.7x4 mm) (1 spare)
107-12	2x M2 nuts (1 spare)
107-13	5x PB screws (2x4 mm) (1 spare)
107-14	2x PM screws (2x10 mm) (1 spare)

YOU WILL ALSO NEED

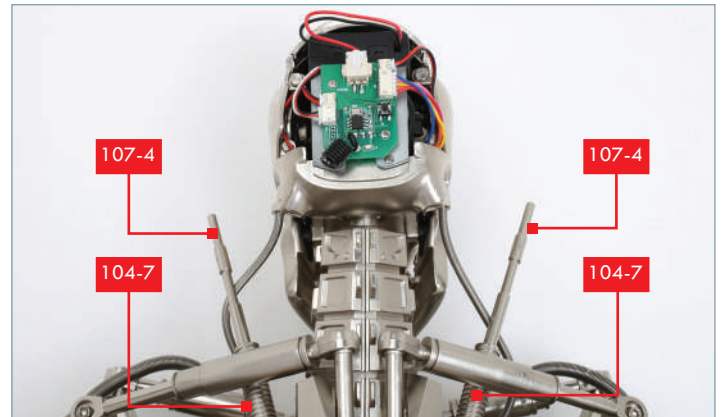
Model assembly from stage 106, a fine crosshead screwdriver, superglue and a cocktail stick.





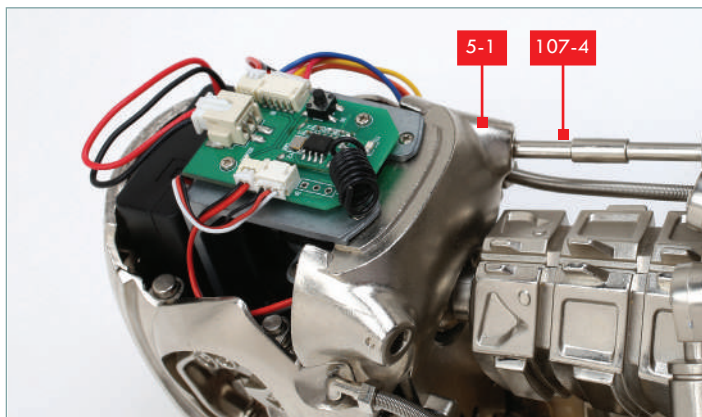
STEP 1

Fit the battery box **3-4** (with batteries) in the top of the head. Check that it is switched off. The switch on the battery box should be at the top left (arrow, inset). Check that all the cables reach to the sockets on the circuit board **106-1**, but do not plug them in fully at this stage. See also step 5.



STEP 2

Fit the broader ends of the neck details **107-4** into the open ends of the ribbed shafts **104-7**.



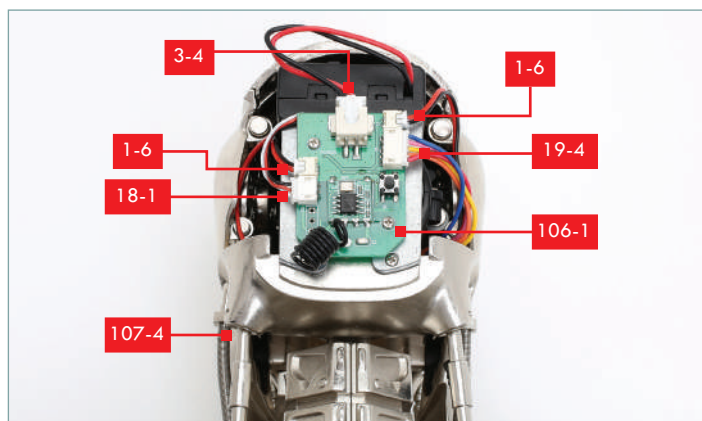
STEP 3

Fit the top ends of parts **107-4** into holes in the bottom of the skull section **5-1**.



STEP 4

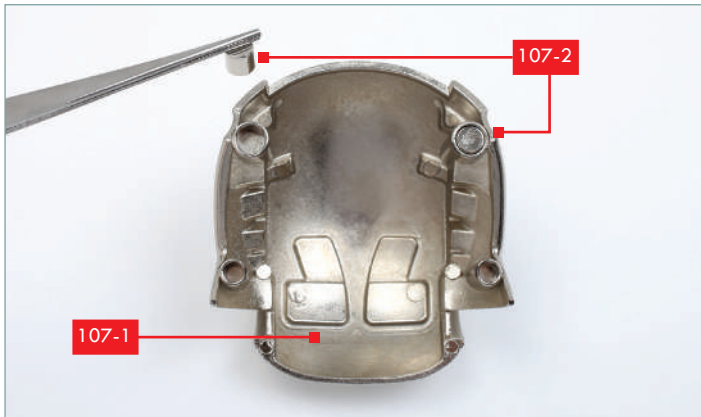
Identify the screw hole in the top of the first part **107-04**. Fit a rubber washer **107-10** on to the thread of a PWB screw (**107-11**), and attach to the end of a magnetic screwdriver (inset). Holding part **107-4** in place, fix the top end by fixing the PWB screw with rubber washer into the top of the neck detail. Test-fit the PWB screw into part **107-4** to create a thread in the shaft before fitting it in place.



STEP 5

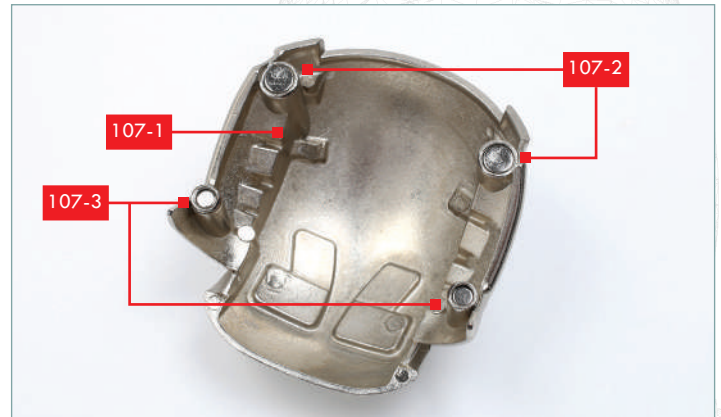
Repeat the previous two steps to fix the top of the second neck detail **107-4** in place. Plug the connectors into the circuit board **106-1**. Working clockwise, from bottom left:

- 18-1:** Eye motor
- 1-6:** Left eye LED
- 3-4:** Power cable
- 1-6:** Right eye LED
- 19-4:** Jaw motor



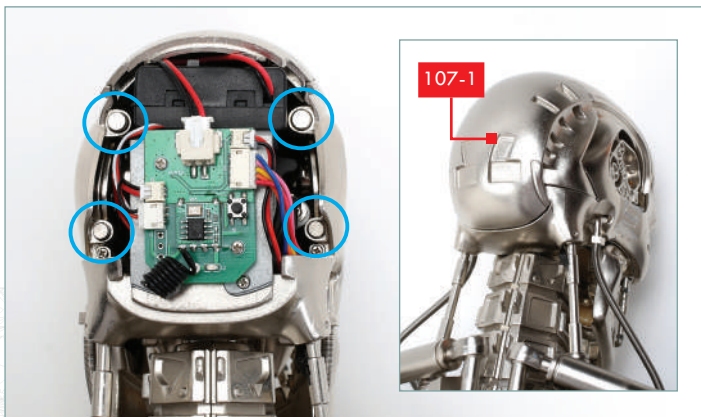
STEP 6

Pick one of the larger magnets **107-2** on the end of a pair of tweezers or similar. Apply a little superglue to one end of the magnet. Fit the magnet into one of the sockets at the top of the back of the head **107-1**. Repeat to fit the second large magnet **107-2**.



STEP 7

Glue the two smaller magnets **107-3** into the two lower sockets in part **107-1**. Allow the glue to dry.



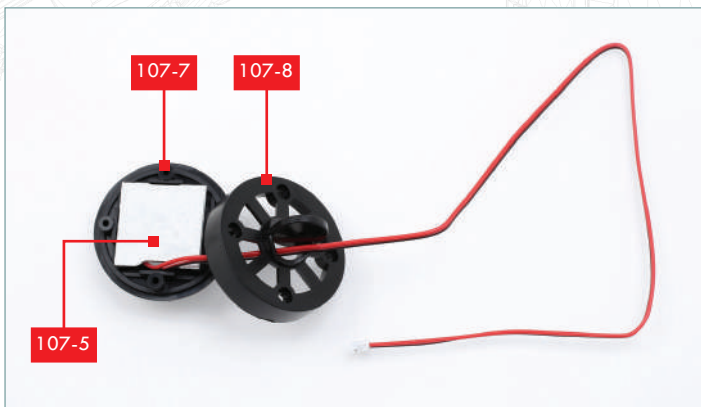
STEP 8

Tuck the cables into the skull so that they are clear of the four magnet anchor points (circled). Fit the back of the head **107-1** in place on the back of the skull, so that the magnets connect with the magnet anchor points and the edge of part **107-1** butts up neatly with the edge of the skull.



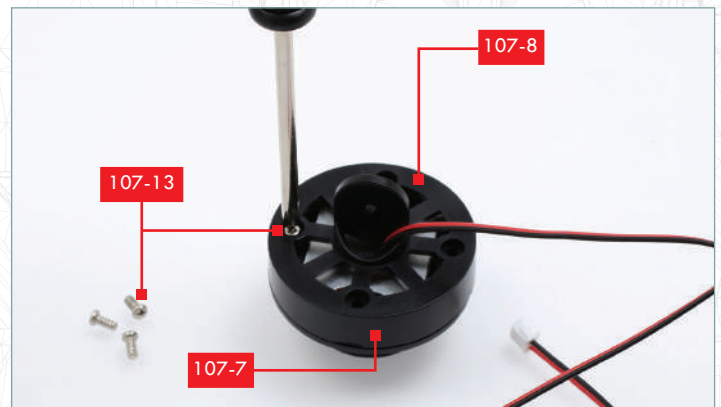
STEP 9

Take the LED **107-5** and bend the cables so that they fit through the recess in the edge of the circuit board. Fit the LED **107-5** into the housing **107-7**: note that there are four lips on one side of the housing, which hold the LED circuit board in place. The fit is quite loose at this stage.



STEP 10

Take the second part of the housing **107-8** and thread the cable of the LED **107-5** through the semicircular hole in the centre of the **107-8**.



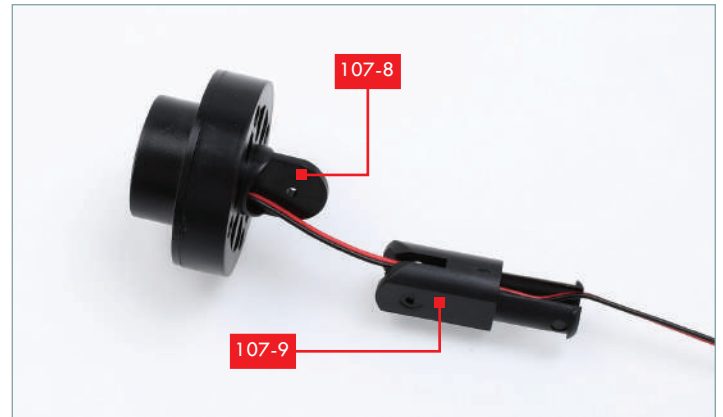
STEP 11

Fit parts **107-8** and **107-7** together, ensuring that the screw holes are aligned. Fix part **107-8** in place using four PB 2x4 mm screws (**107-13**).



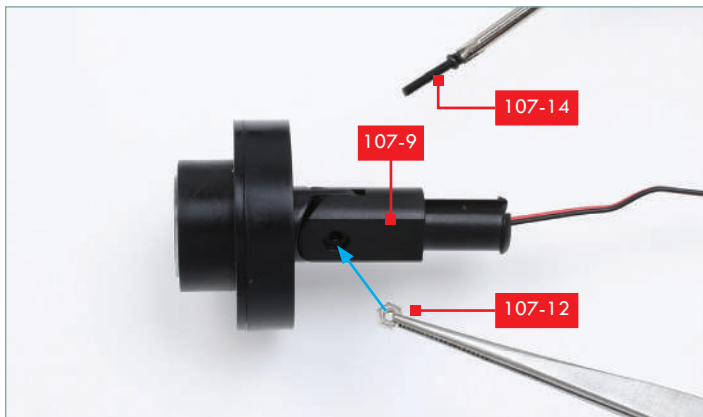
STEP 12

Turn the housing over and fit the lens **107-6** into the opening in the housing part **107-7**, covering the LED **107-5**. The flat side of the lens should face outwards. Push it in place until it clicks.



STEP 13

Thread the cable through the stand **107-9**, ensuring you have it the right way around. The slots in the wider end of the stand fit over the large tab on housing part **107-8**.



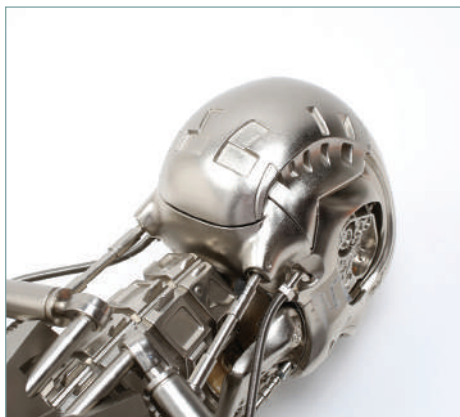
STEP 14

Fit an **M2** nut (**107-12**) into the socket on one side of part **107-9**. You will need a **PM 2x10 mm** screw (**107-14**) to fix the parts together.



STEP 15

Holding the **M2** nut in place, turn the assembly over. Thread the **PM 2x10 mm** screw through part **107-9** and the hole in the tab on part **107-8** to the other side. Tighten the screw (arrow) into the nut. Do not overtighten, as you need to be able to adjust the angle of the searchlight.

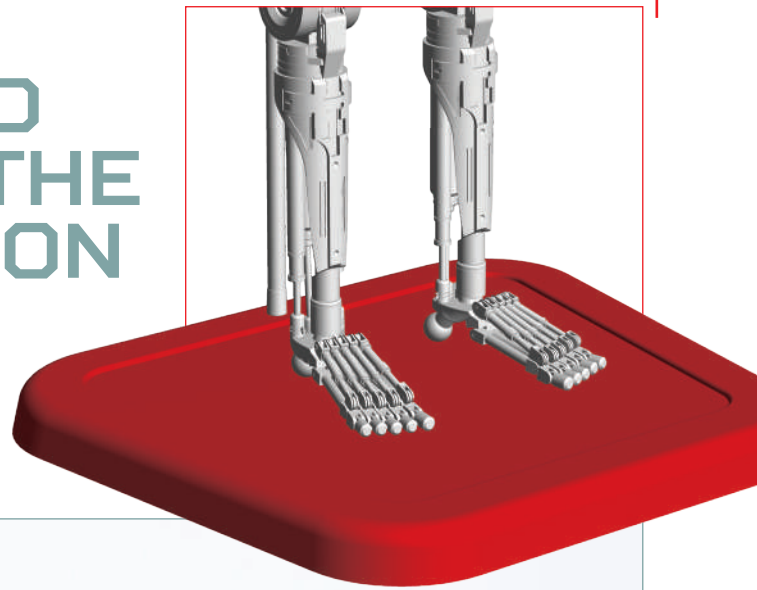


STAGE COMPLETE!

The panel at the back of the head has been fitted. A searchlight for the base of the model has been assembled.

STAGE 108: AFFIX ROCK DETAILS AND SEARCHLIGHT TO THE FIRST BASE SECTION

Superglue the larger and smaller rock details to the larger scenic base, and attach the adjustable searchlight you assembled last stage.

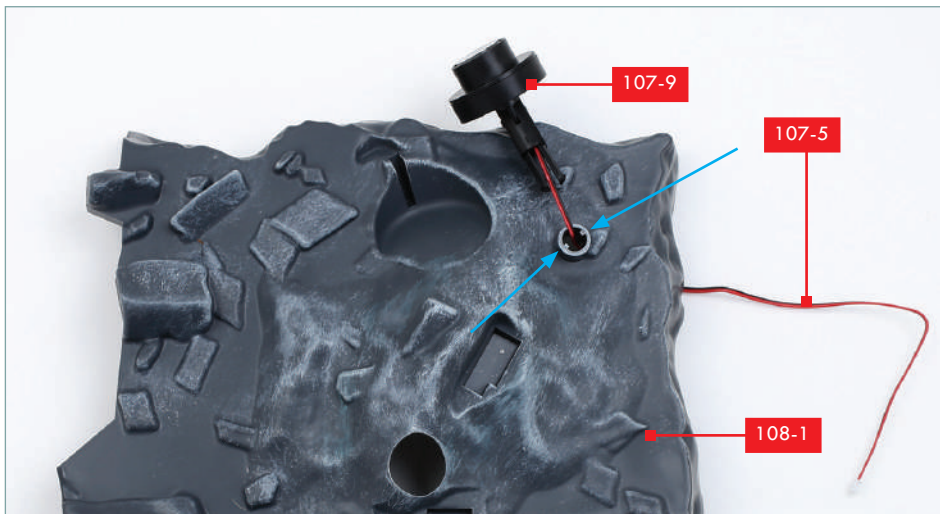


LIST OF PIECES

108-1	First base panel
108-2	Larger rock detail
108-3	Smaller rock detail

YOU WILL ALSO NEED

Searchlight assembly from stage 107, superglue and a cocktail stick.



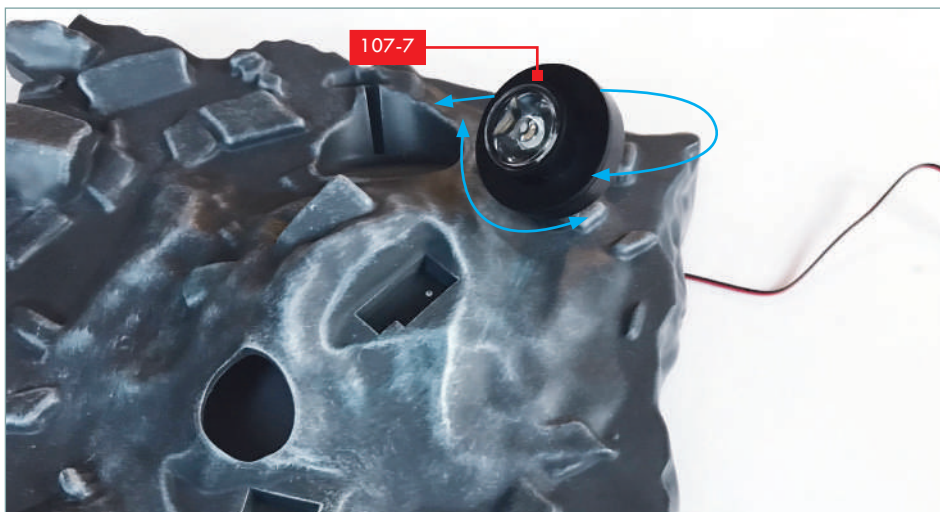
STEP 1

Identify the hole in the base **108-1** where the searchlight assembly will fit. Thread the cable of the searchlight **107-5** through the hole. Note that the stand of the searchlight **107-9** has two slots that should align with the raised ribs on the inside of the hole (arrows).



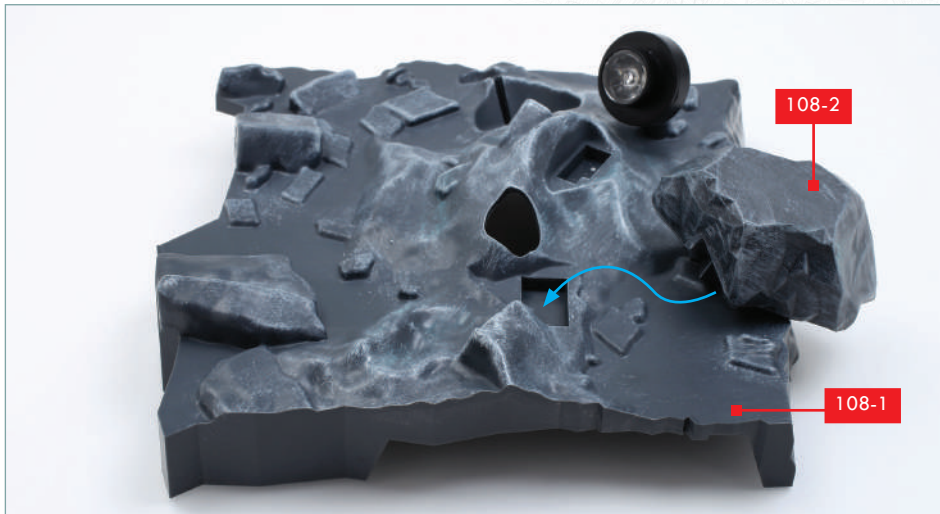
STEP 2

Squeeze the sides of part **107-9** together and push it into the hole.



STEP 3

Once in place, the searchlight can be rotated a few degrees and tilted up and down.

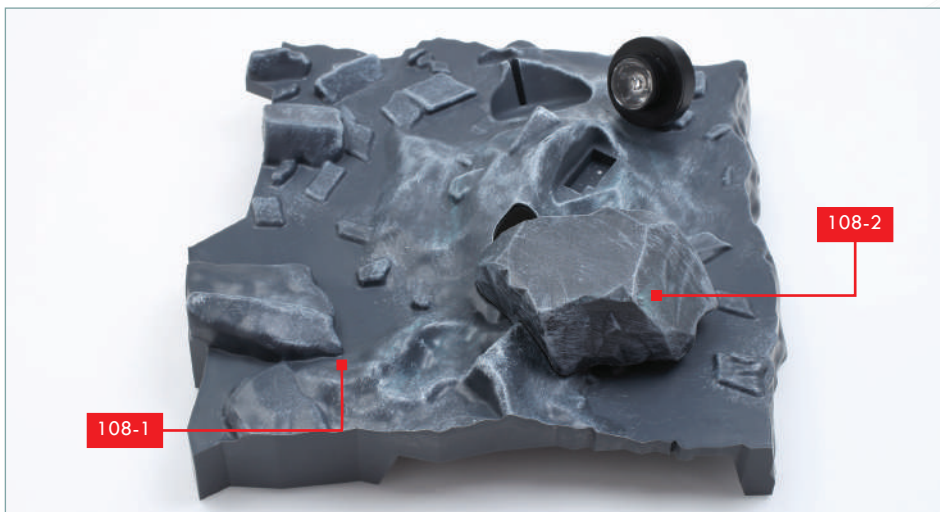


STEP 4

Take the larger rock **108-2** and check the fit in the recess in the base **108-1**. Apply superglue around the sides of the large peg on part **108-2** and fix the rock in place.

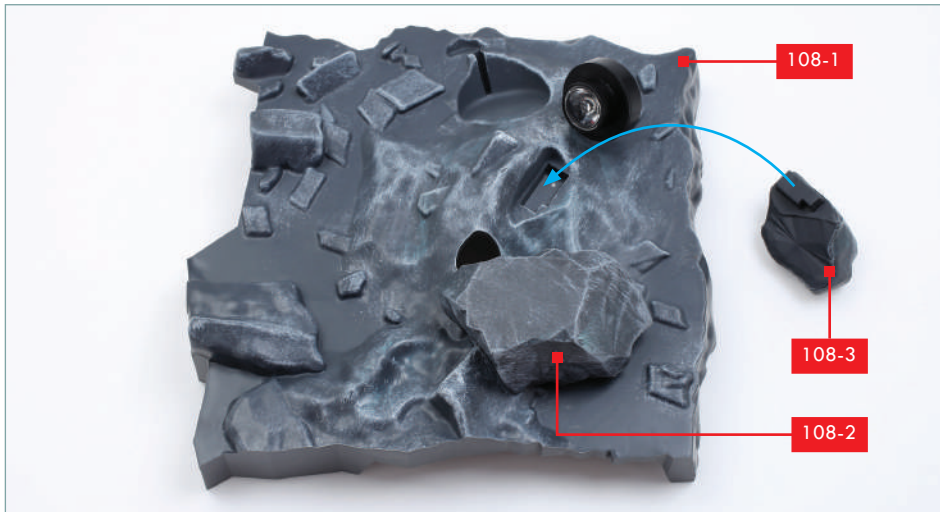
EXPERT TIP!

When applying superglue it is advisable to spread the glue around the sides of the peg, rather than in the recess.



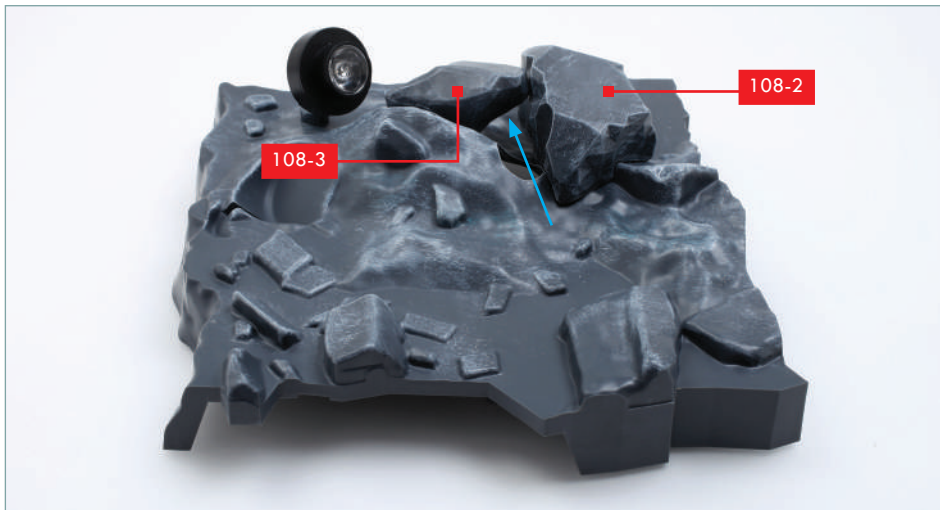
STEP 5

Hold the rock **108-2** in place on the base **108-1** until the glue has dried.



STEP 6

Check the fit of the smaller rock **108-3** in the base **108-1**. Apply glue around the sides of the peg and fix the rock in place.



STEP 7

The smaller rock **108-3** leans against the larger rock **108-2** leaving a gap underneath (arrow).

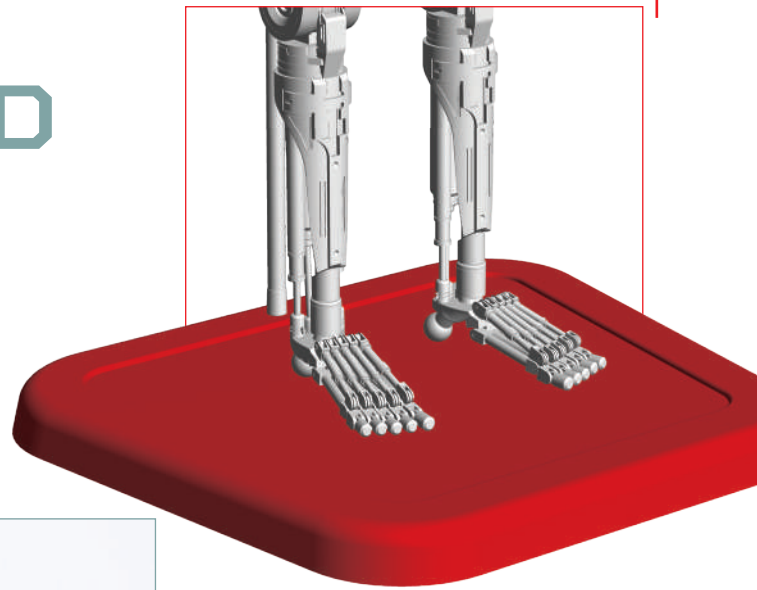


STAGE COMPLETE!

Rock details and a searchlight have been fitted to the base.

STAGE 109: BUILD A SECOND SEARCHLIGHT AND ADD A BASE DETAIL

Attach the LED to its adjustable housing and connect it to the base, and superglue the detail element into the recessed fixing point.

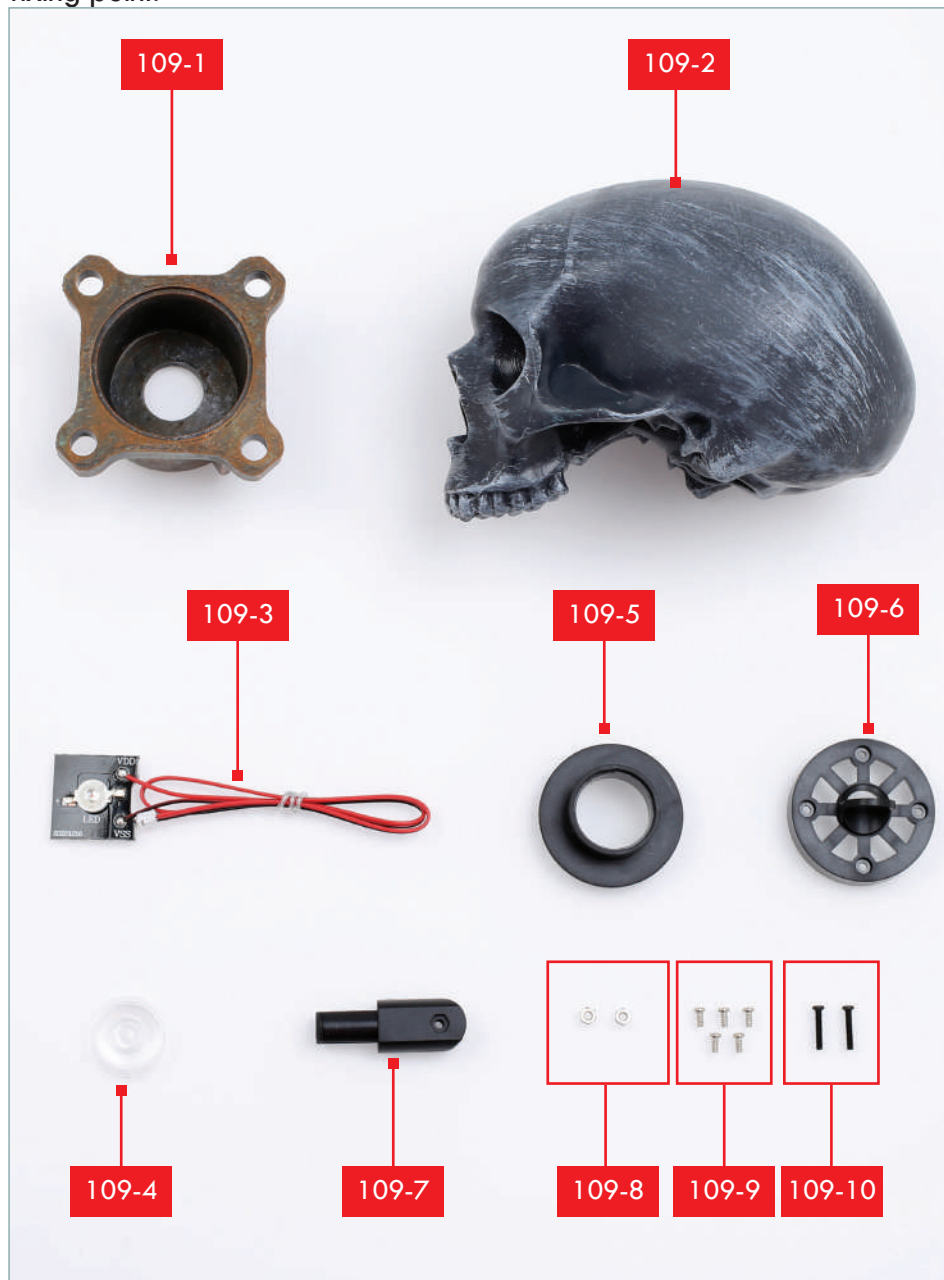


LIST OF PIECES

109-1	Detail for base
109-2	Discarded skull
109-3	LED and cable
109-4	Lens for searchlight
109-5	LED housing
109-6	LED housing
109-7	Searchlight stand
109-8	2x M2 nuts (1 spare)
109-9	5x PB screws (2x4 mm) (1 spare)
109-10	2x PM screws (2x10 mm) (1 spare)

YOU WILL ALSO NEED

Base assembly from stage 108, a fine cross-head screwdriver, superglue and a cocktail stick.





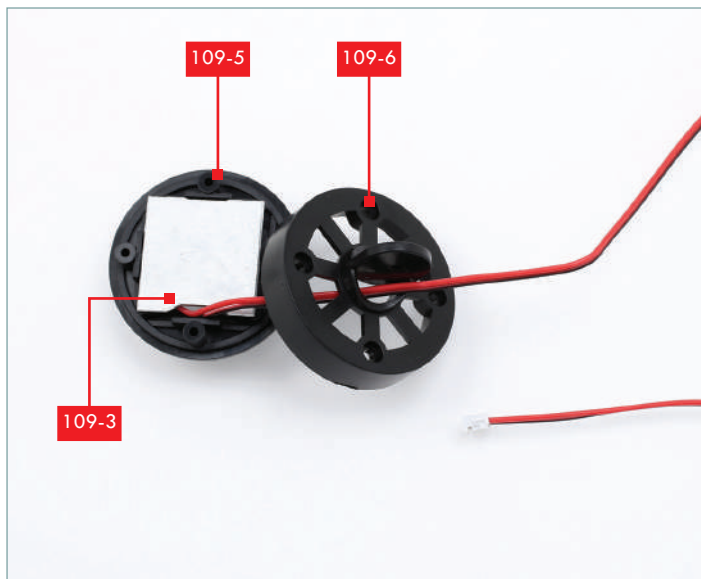
STEP 1

Take the LED **109-3** and bend the cables so that they fit through the recess in the edge of the circuit board and then bend away from the back of the circuit board.



STEP 2

Fit the LED **109-3** into the housing **109-5**: note that there are four lips on one side of the housing, which hold the LED circuit board in place.



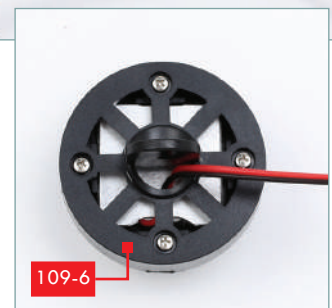
STEP 3

Take the second part of the housing **109-6** and thread the cable of the LED **109-3** through the semicircular hole in the centre of the **109-6**.



STEP 4

Fit parts **109-6** and **109-5** together, ensuring that the screw holes are aligned. Fix part **109-6** in place using four PB 2x4 mm screws (**109-9**) (inset, below).





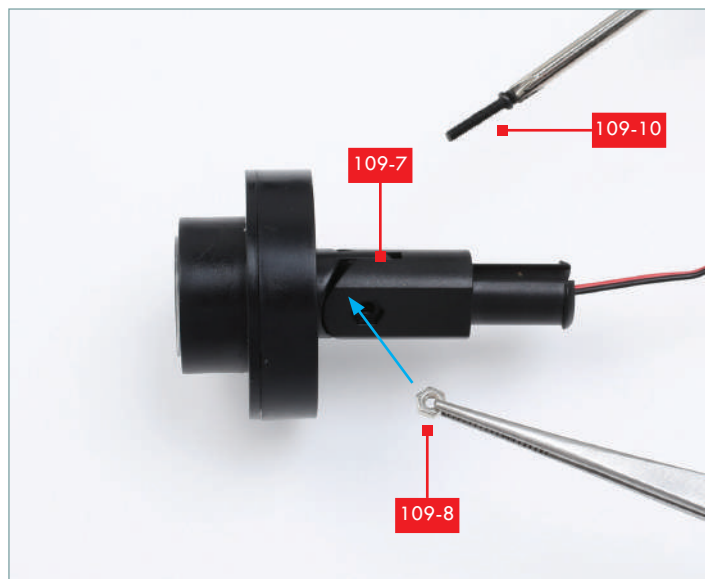
STEP 5

Turn the housing over and fit the lens **109-4** into the opening in the housing part **109-5**, covering the LED **109-3**. The flat side of the lens should face outwards. Push it in place until it clicks.



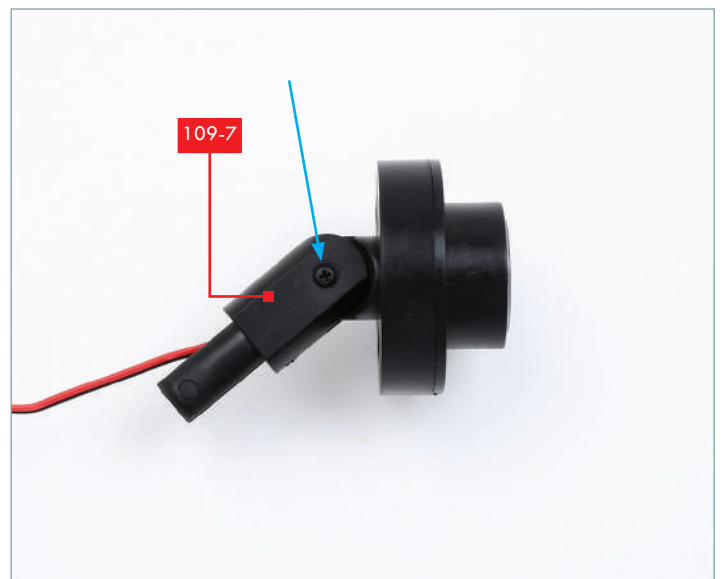
STEP 6

Thread the cable through the stand **109-7**, ensuring you have it the right way around. The slots in the wider end of the stand fit over the large tab on housing part **109-6**.



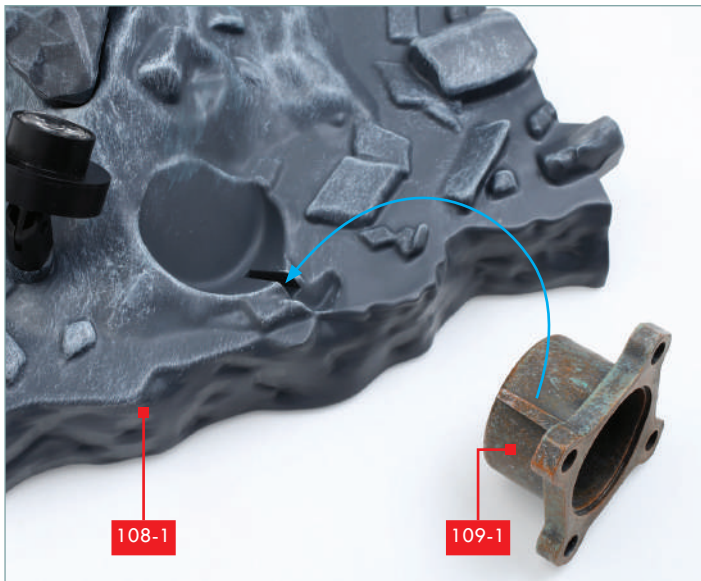
STEP 7

Fit an **M2** nut (**109-8**) into the socket on one side of part **109-7**. You will need a PM 2x10 mm screw (**109-10**) to fix the parts together.



STEP 8

Holding the **M2** nut in place, turn the assembly over. Thread the PM 2x10 mm screw through part **109-7** and the hole in the tab on part **109-6** to the other side of part **109-7**. Tighten the screw (arrow) into the nut. Do not overtighten, as you need to be able to adjust the angle of the searchlight.



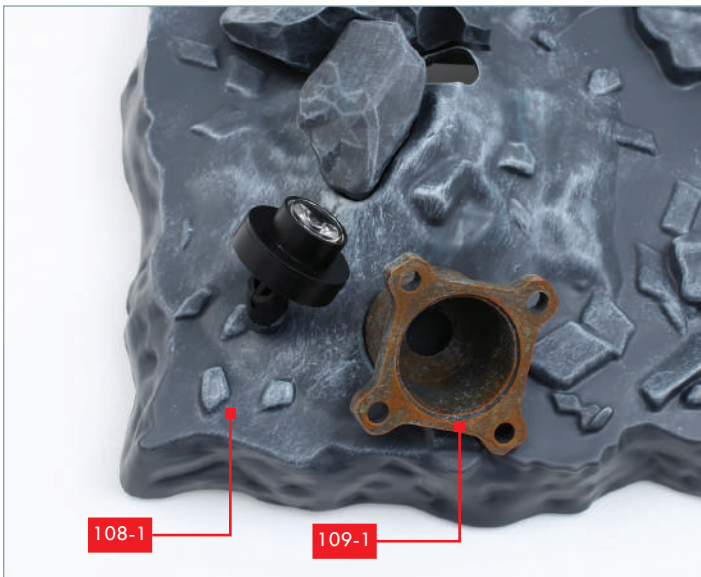
STEP 9

Take the base assembly from stage 108. Identify the fixing point for the detail **109-1**. The rib on part **109-1** fits into a slot in the recess in part **108-1**, as indicated.



STEP 10

Use a cocktail stick to spread superglue to the sides of the rib on part **109-1**.



STEP 11

Glue part **109-1** in place as shown.



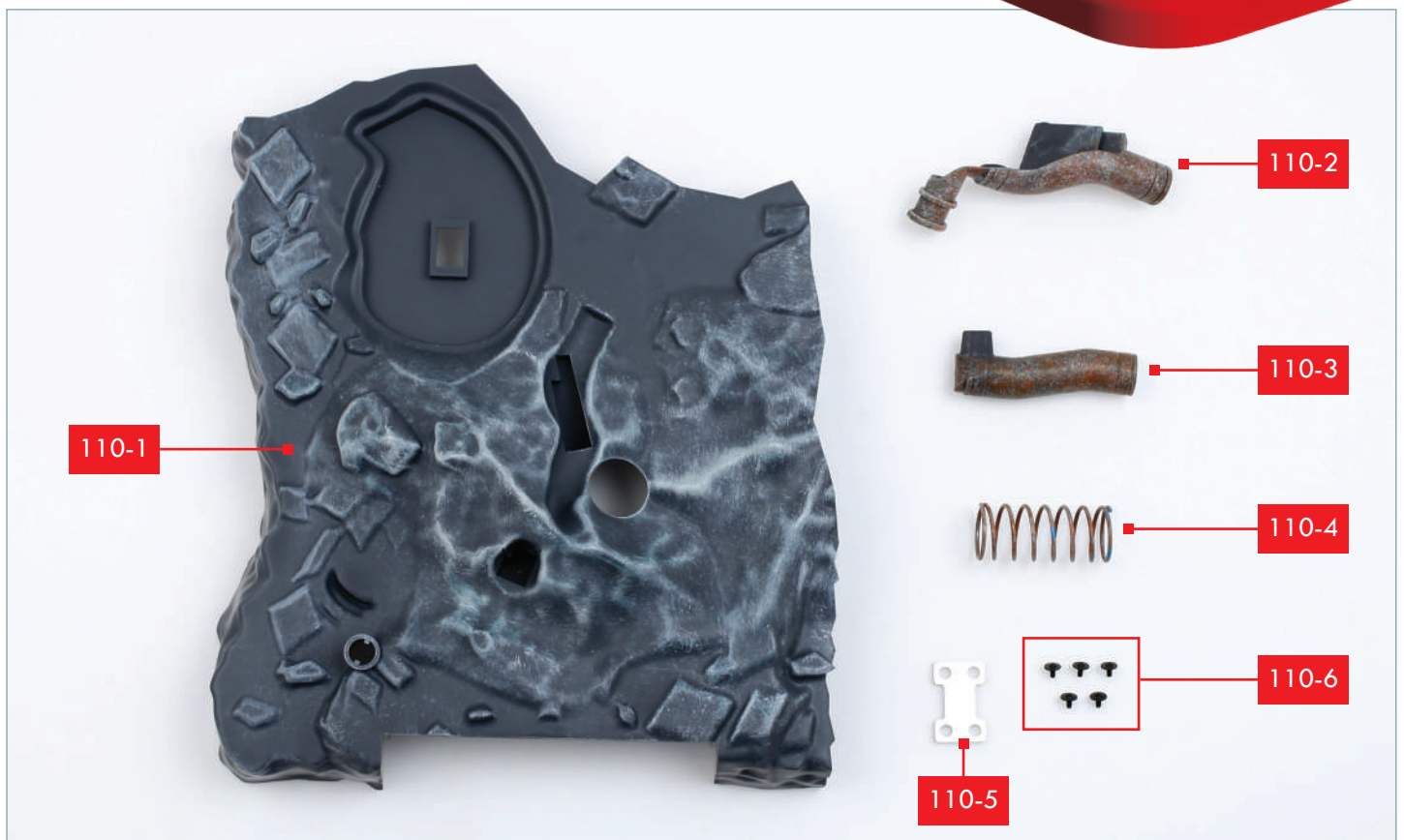
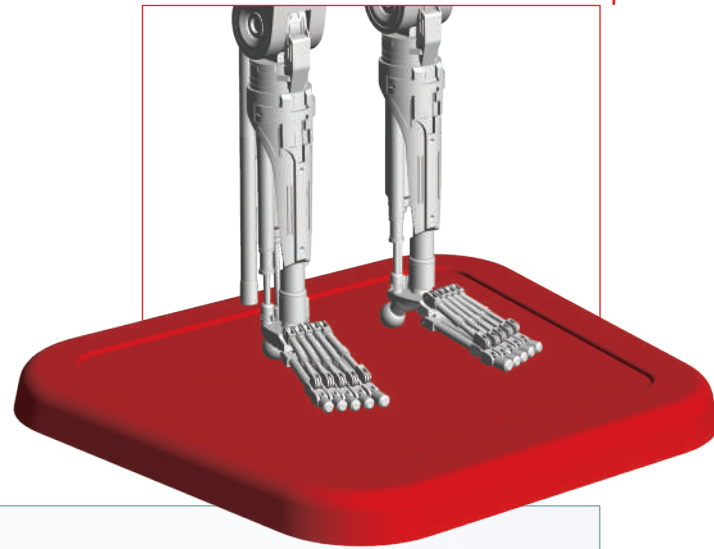
STAGE COMPLETE!

A second searchlight has been assembled, and a detail has been added to the base. Part **109-2** will be used in the next stage.



STAGE 110: CONNECT A SECOND BASE SECTION TO THE FIRST, AND APPLY DETAILS

Join two base sections together, and attach the second searchlight, skull, two rusted pipe details, and a spring.



LIST OF PIECES

110-1	Base section	110-4	Spring detail
110-2	Pipe detail	110-5	Joining plate
110-3	Pipe detail	110-6	5x PWB screws (2x4 mm) (1 spare)

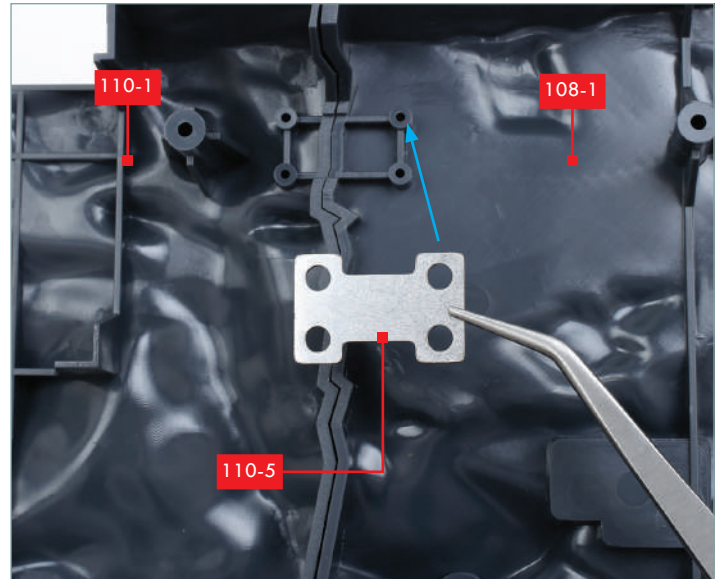
YOU WILL ALSO NEED

Base assembly from stage 109, part 109-2 from stage 109, searchlight assembly from stage 109, fine cross-head screwdriver, superglue and a cocktail stick.



STEP 1

Take the base assembly from stage 109 and the base section **110-1**. Check how they fit together and butt the matching edges together (right).



STEP 2

Carefully turn the bases over, taking care not to dislodge any of the details. You may need to arrange supports underneath to keep the parts level. Take the joining plate **110-5** and identify the fixing point across the two base sections **110-1** and **108-1**, as indicated.

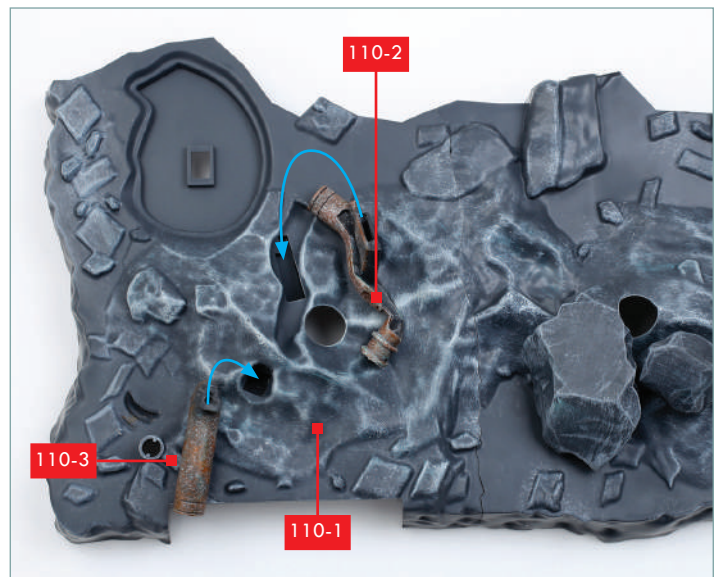
EXPERT TIP!

You may find it helpful to grip the edges of the base parts together using a bulldog clip or similar (arrows).



STEP 3

Fix the joining plate **110-5** in place using four PWB 2x4 mm screws (**110-6**) (inset below).



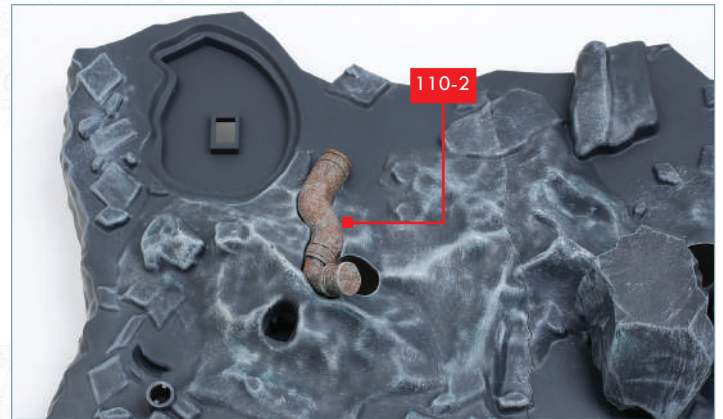
STEP 4

Take the two pipe details **110-2** and **110-3** and identify the recesses in part **110-1** where they fit.



STEP 5

Use a cocktail stick to spread superglue to the sides of the large peg on part **110-2**.



STEP 6

Glue part **110-2** in place.



STEP 7

Use a cocktail stick to apply superglue to the sides of the peg on part **110-3**.



STEP 8

Glue part **110-3** in place, as shown.



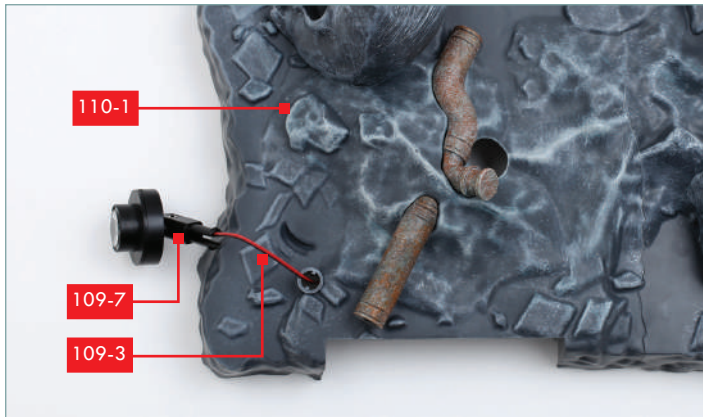
STEP 9

Take skull part **109-2** and identify the recess in part **110-1** where it will fit. **DO NOT APPLY ANY GLUE.**



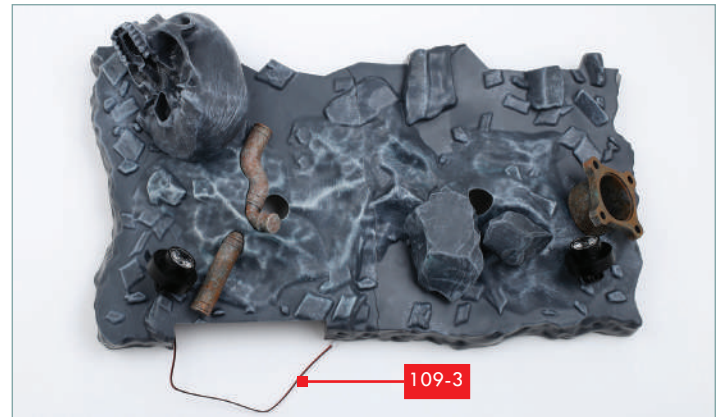
STEP 10

Position the skull in the recess, as shown. It is not glued in place.



STEP 11

Take the searchlight assembly from stage 109. Identify the hole in part **110-1** where the searchlight stand **109-7** fits and thread the cable of part **109-3** through the hole.



STEP 12

Draw the cable through the hole and squeeze the sides of part **109-7** together so that you can fit the stand into the hole. The searchlight can rotate slightly.



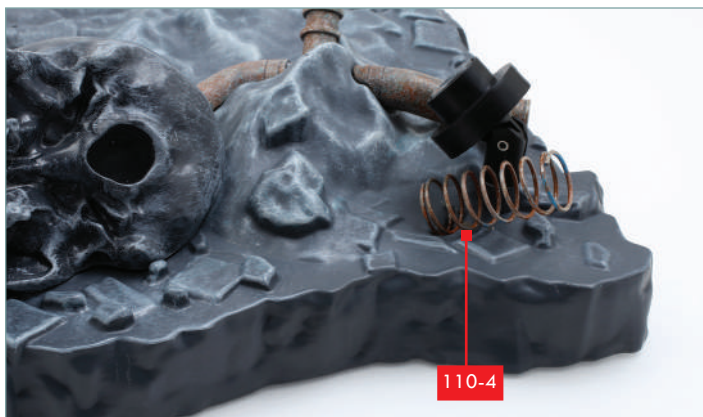
STEP 13

Take the spring **110-4** and identify the notch near the searchlight where it fits.



STEP 14

Fit the rim of the spring into the notch. Rotate the spring clockwise, as indicated.



STEP 15

As you rotate the spring, coils that are wider apart will grip the spring into the notch. If necessary, apply a little superglue.

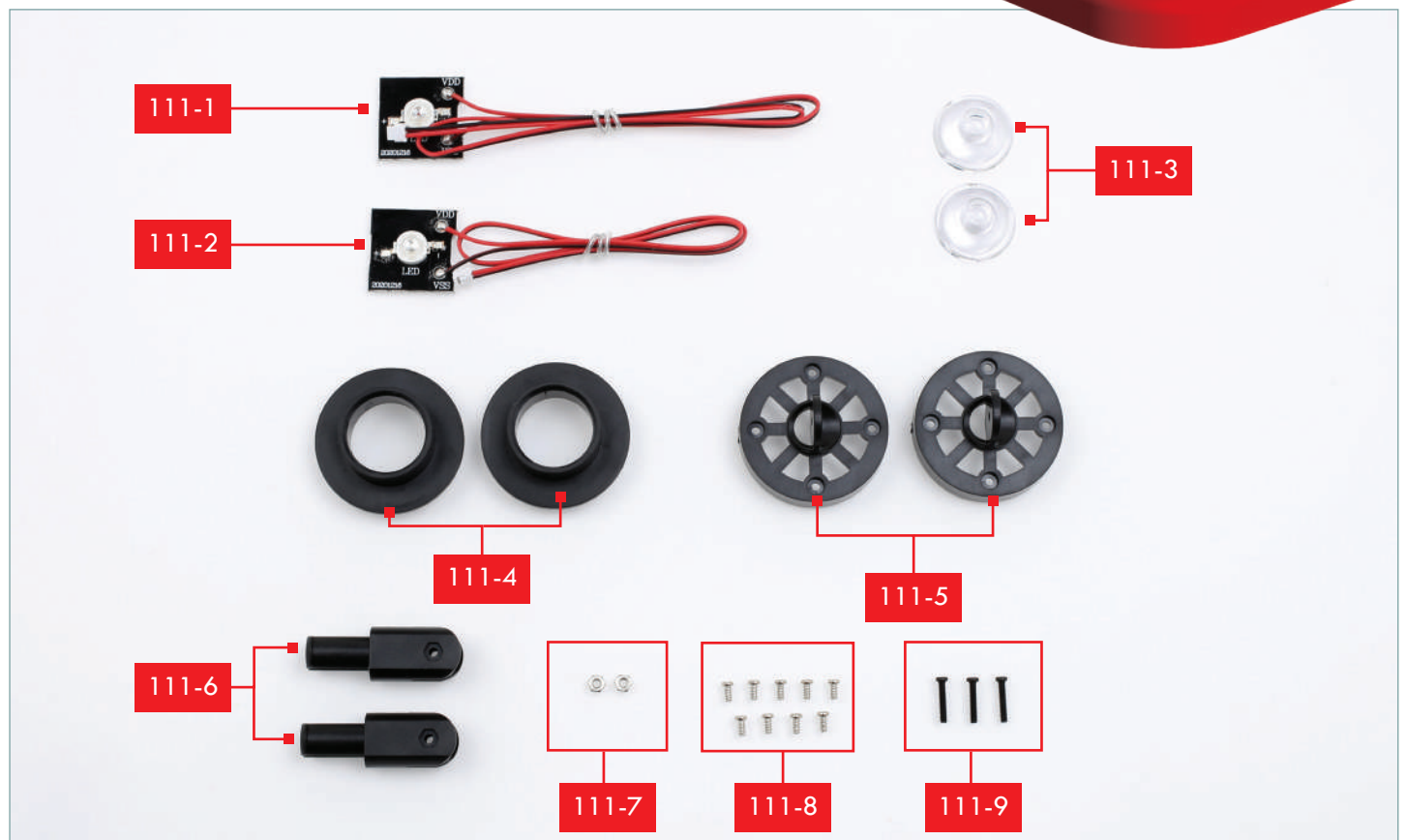
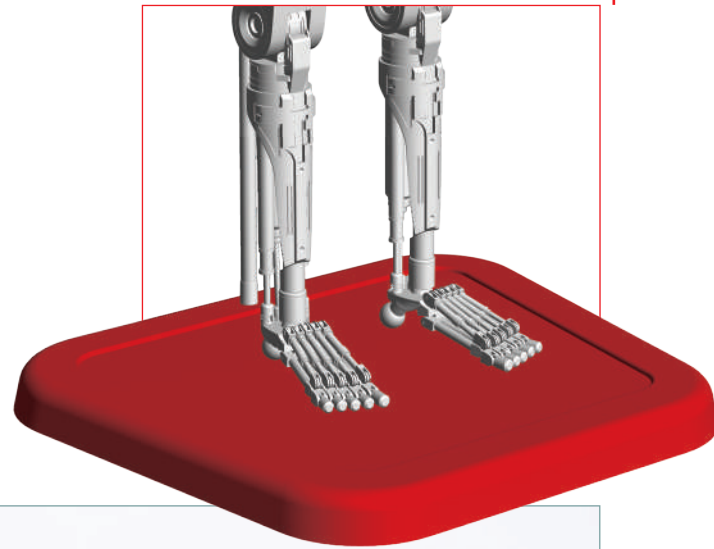


STAGE COMPLETE!

A second base panel, with searchlight and other details, has been attached to the first base section.

STAGE 111: BUILD A PAIR OF LED SEARCHLIGHTS

Check and connect two LEDs to their housings, ready to insert into the base.

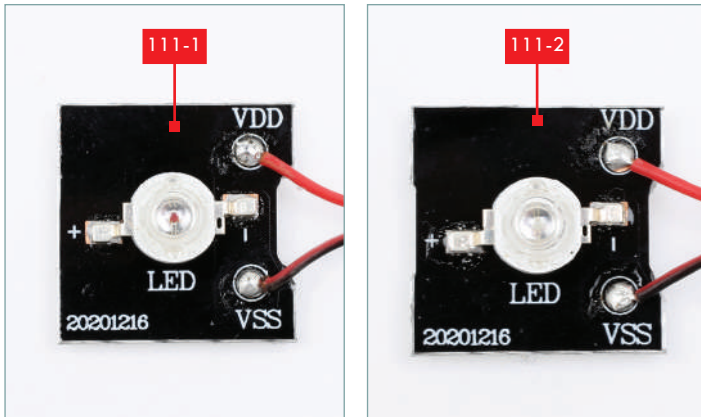


LIST OF PIECES

111-1	LED and cable (red)	111-6	Stand for searchlight
111-2	LED and cable (clear)	111-7	2x M2 nuts
111-3	2x Lenses for searchlights	111-8	9x PB screws (2x4 mm) (1 spare)
111-4	2x LED housing parts	111-9	3x PM screws (2x10 mm) (1 spare)
111-5	2x LED housing parts		

YOU WILL ALSO NEED

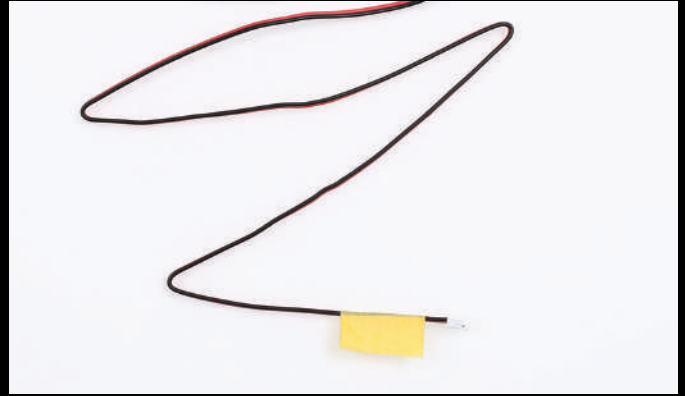
A fine cross-head screwdriver,
masking tape (optional).



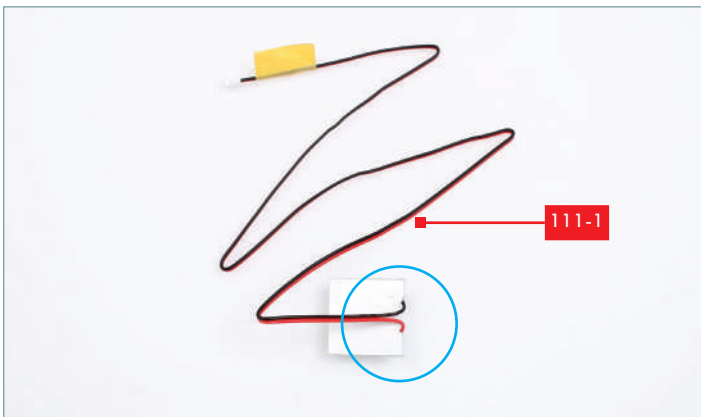
STEP 1

Check the two LEDs: part **111-1** has a red spot at the centre of the LED and a longer cable. LED part **111-2** has a plain clear centre. This will be important when you come to fit the searchlights.

EXPERT TIP!

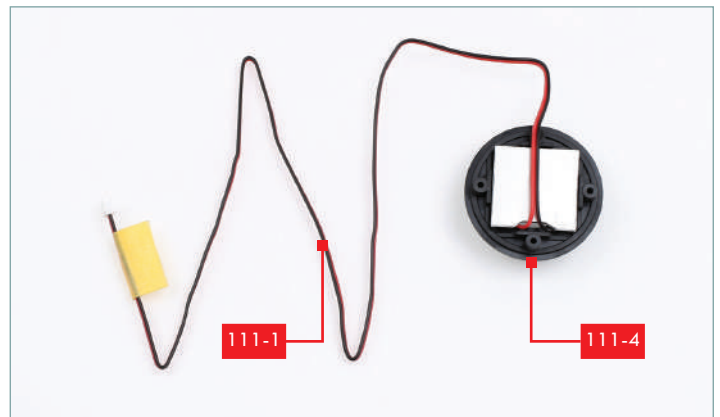


To make it easy to distinguish the red LED **111-1**, wrap a small piece of masking tape around the cable, close to the connector.



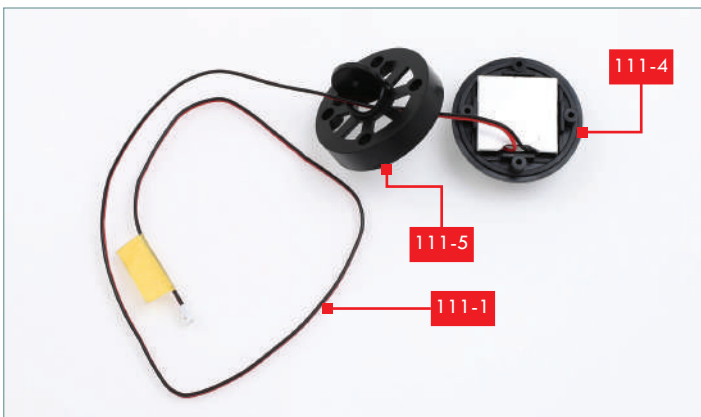
STEP 2

Take the LED **111-1** and bend the cables so that they fit through the recess in the edge of the circuit board (circled) and then bend away from the back of the circuit board.



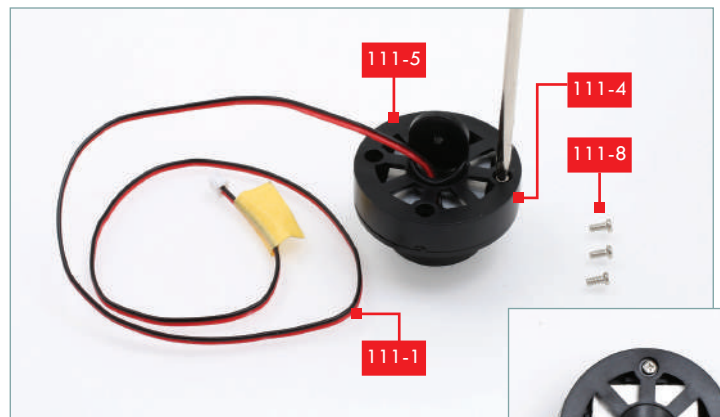
STEP 3

Fit the LED into one of the housing parts **111-4**: note that there are four lips on one side of the housing, which hold the LED circuit board in place.



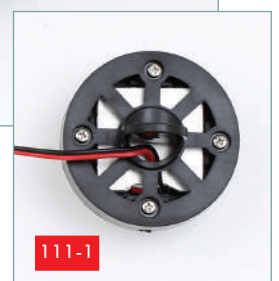
STEP 4

Take one of the housing parts **111-5** and thread the cable of the LED **111-1** through the semicircular hole in the centre of part **111-5**.



STEP 5

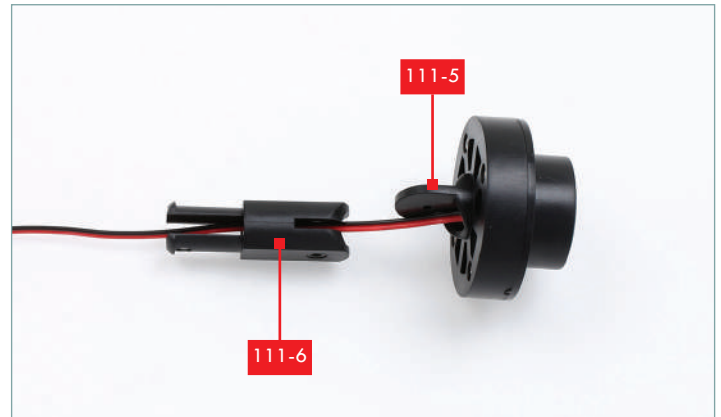
Fit parts **111-5** and **111-4** together, ensuring that the screw holes are aligned. Fix part **111-5** in place using four PB 2x4 mm screws (**111-8**) (inset, below).





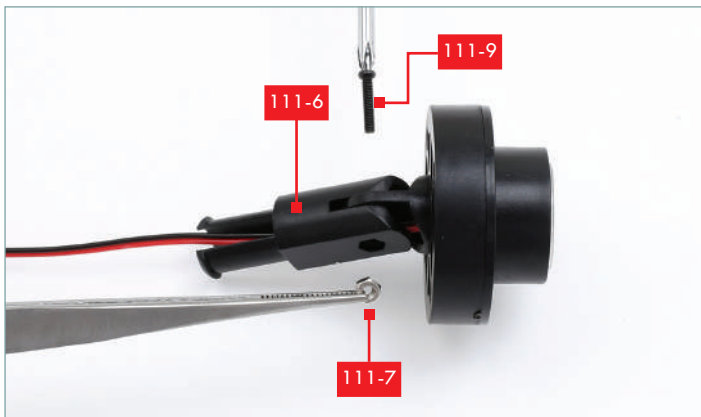
STEP 6

Turn the housing over and fit the lens **111-3** into the opening in the housing part **111-4**, covering the LED **111-1**. The flat side of the lens should face outwards. Push it in place until it clicks.



STEP 7

Thread the cable through the stand **111-6**, ensuring you have it the right way around. The slots in the wider end of the stand fit over the large tab on housing part **111-5**.



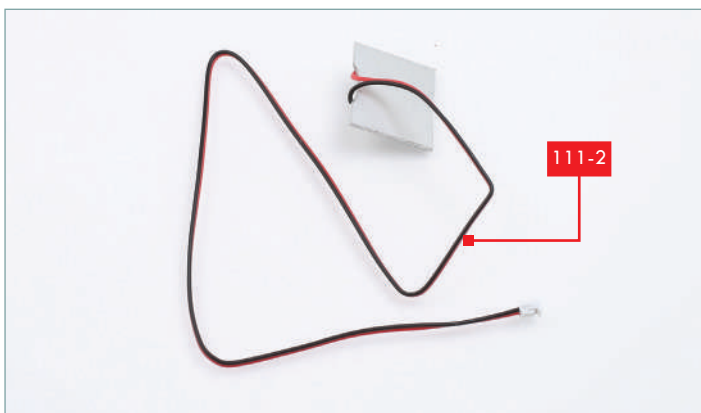
STEP 8

Fit an **M2** nut (**111-7**) into the socket on one side of part **111-6**. You will need a **PM 2x10 mm** screw (**111-9**) to fix the parts together.



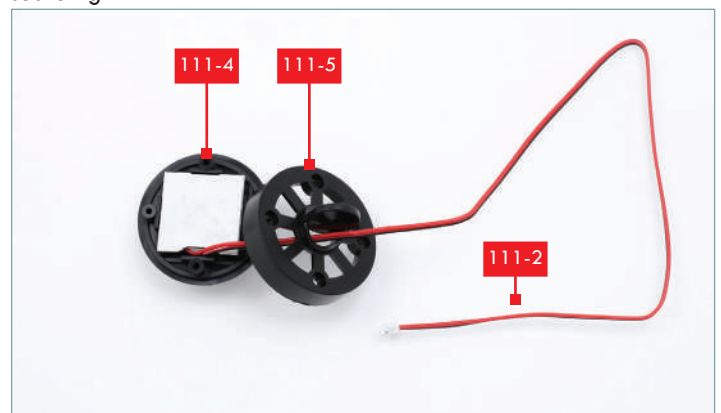
STEP 9

Holding the **M2** nut in place, turn the assembly over. Thread the **PM 2x10 mm** screw through part **111-6** and the hole in the tab on part **111-5** to the other side of part **111-6**. Tighten the screw into the nut. Do not overtighten, as you need to be able to adjust the angle of the searchlight.



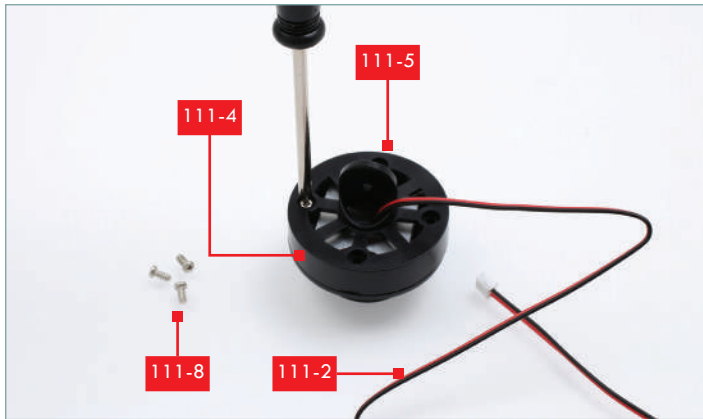
STEP 10

Take the other LED **111-2** and bend the cables so that they fit through the recess in the edge of the circuit board and then bend away from the back of the circuit board.



STEP 11

Fit the LED into the second housing part **111-4**, between the lips that hold it in place. Take the second housing part **111-5** and thread the cable of the LED **111-2** through the semicircular hole in the centre of part **111-5**.



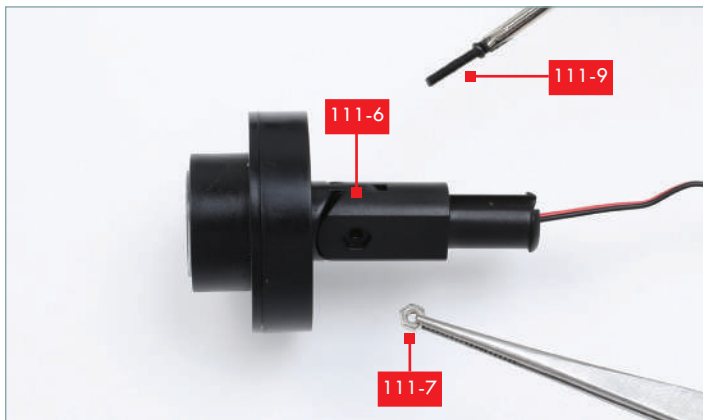
STEP 12

Fit parts **111-5** and **111-4** together, ensuring that the screw holes are aligned. Fix part **111-5** in place using four PB 2x4 mm screws (**111-8**).



STEP 13

Turn the housing over and fit the lens **111-3** into the opening in the housing part **111-4**, covering the LED **111-2**. The flat side of the lens should face outwards. Push it in place until it clicks.



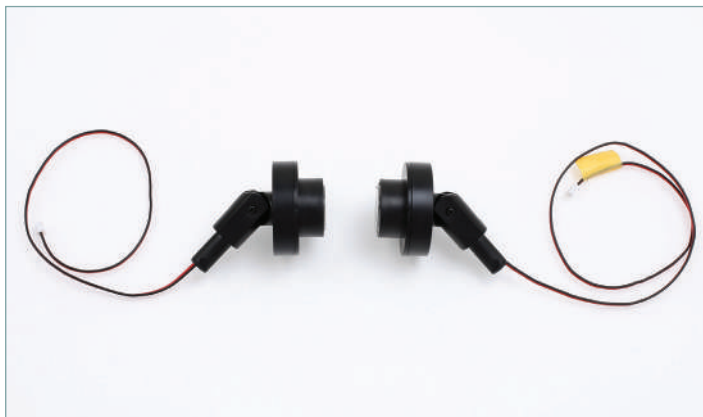
STEP 14

Thread the cable through the stand **111-6**, ensuring you have it the right way around. Fit an M2 nut (**111-7**) into the socket on one side of part **111-6**. You will need a PM 2x10 mm screw (**111-9**) to fix the parts together.



STEP 15

Holding the M2 nut in place, turn the assembly over. Thread the PM 2x10 mm screw through part **111-6** and the hole in the tab on part **111-5** to the other side of part **111-6**. Tighten the screw into the nut. Do not overtighten, as you need to be able to adjust the angle of the searchlight.



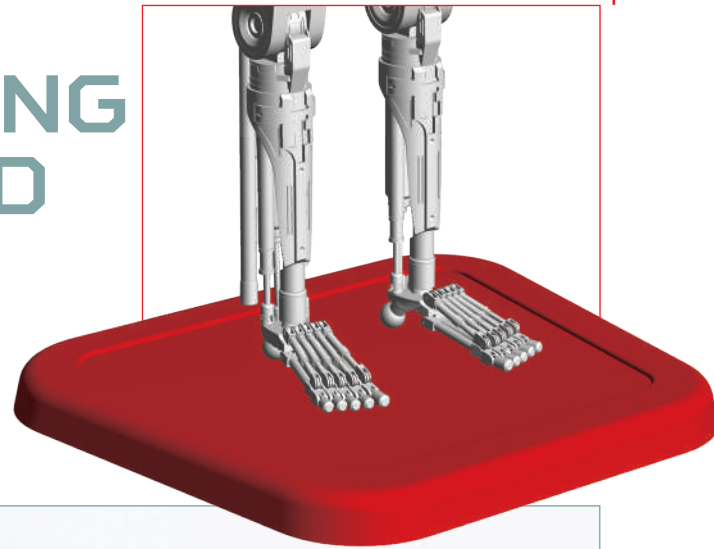
STAGE COMPLETE!

Two searchlights, one red and one clear, have been assembled, ready to fit to the next base sections.



STAGE 112: CONTINUE BUILDING THE BASE AND ADD DETAILING

This stage, you'll be joining another base section, along with jawbone, vertebrae and rock details.

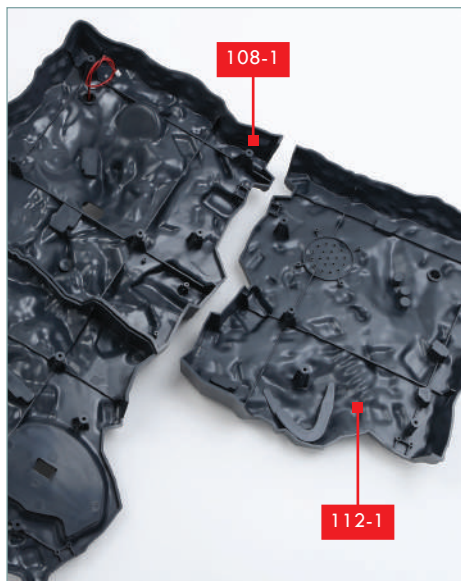


LIST OF PIECES

112-1	Third base section	112-4	Vertebrae
112-2	Rock detail	112-5	Connector
112-3	Jawbone	112-6	5x PWB screws (2x4 mm) (1 spare)

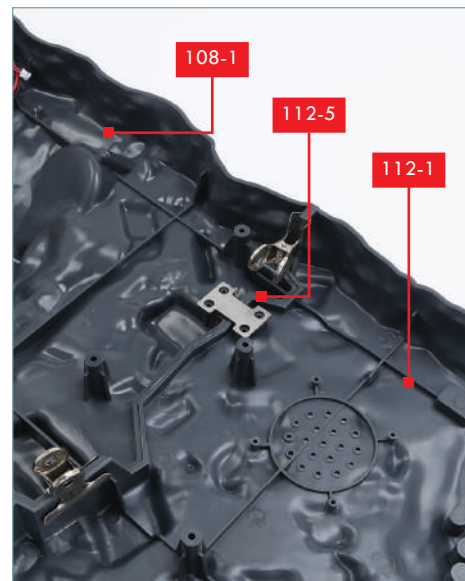
YOU WILL ALSO NEED

The LED searchlight assembly from stage 111, a fine cross-head screwdriver, superglue and a cocktail stick.



EXPERT TIP!

It may be helpful to use bulldog clips or similar to hold the parts together while you fix them.

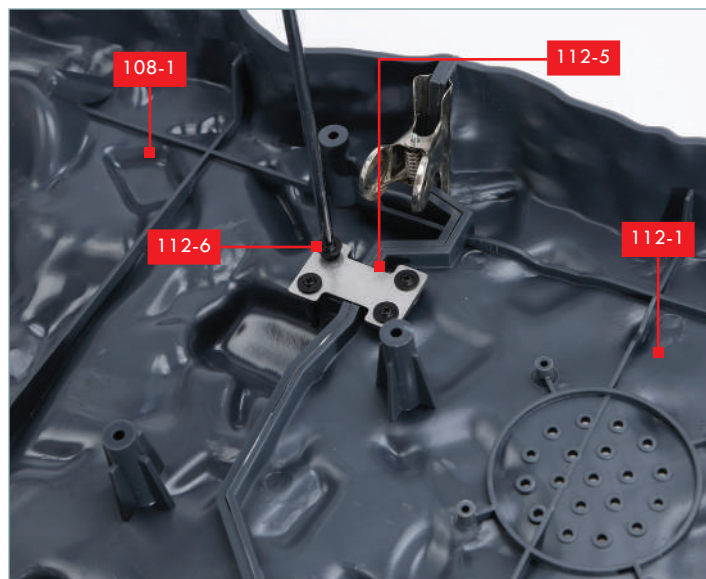


STEP 1

Remove the skull **109-2** from the base assembly. Carefully turn the base assembly upside-down and use sections of packaging (or similar) to support it so that the parts that have been fixed in place are not damaged. Position base section **111-2** next to base section **108-1** so that the edges butt together.

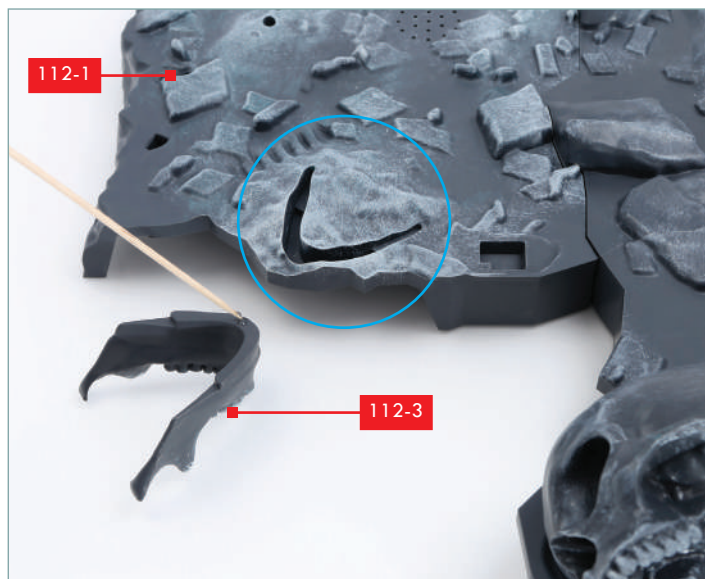
STEP 2

Position the connector **112-5** over the raised screw sockets on parts **108-1** and **112-1**.



STEP 3

Fix the connector **112-5** in place using four PWB 2x4 mm screws (**112-6**).



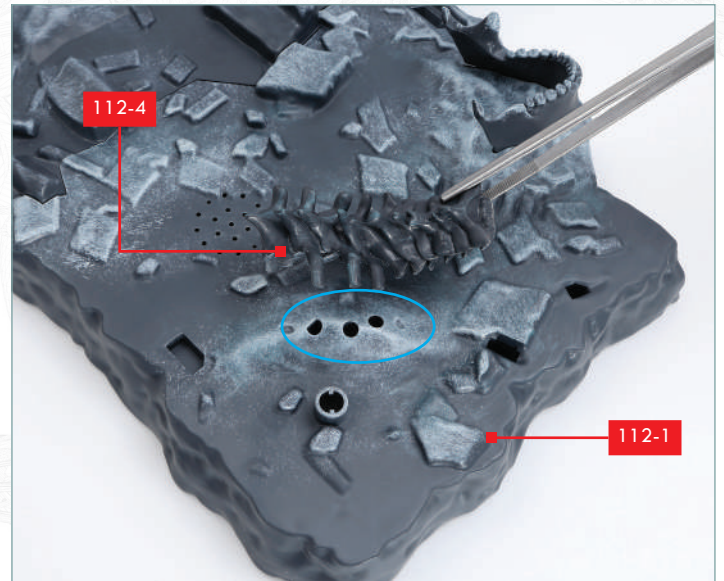
STEP 4

Turn the base assembly the right way up. You can replace the skull **109-2**. Identify the recess for the jawbone (circled). Check how the jawbone **112-3** fits in the recess. Using a cocktail stick, apply superglue to the shaped part of the jawbone that fits in the recess.



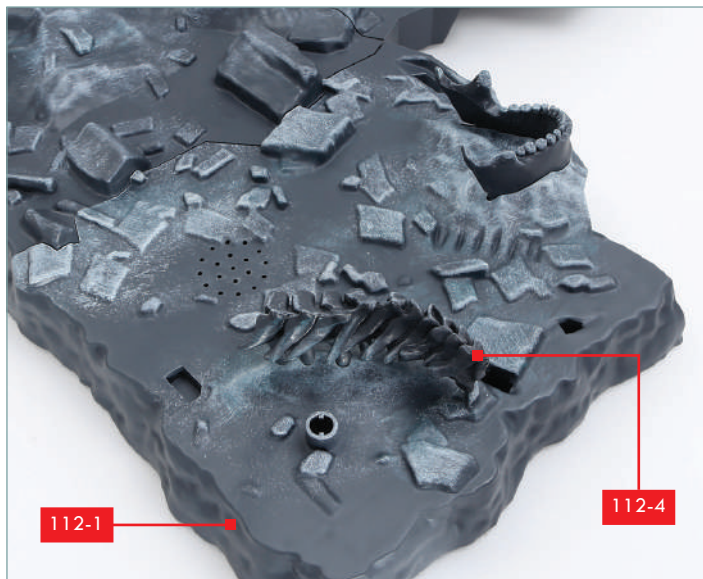
STEP 5

Fix the jawbone in place, as shown.



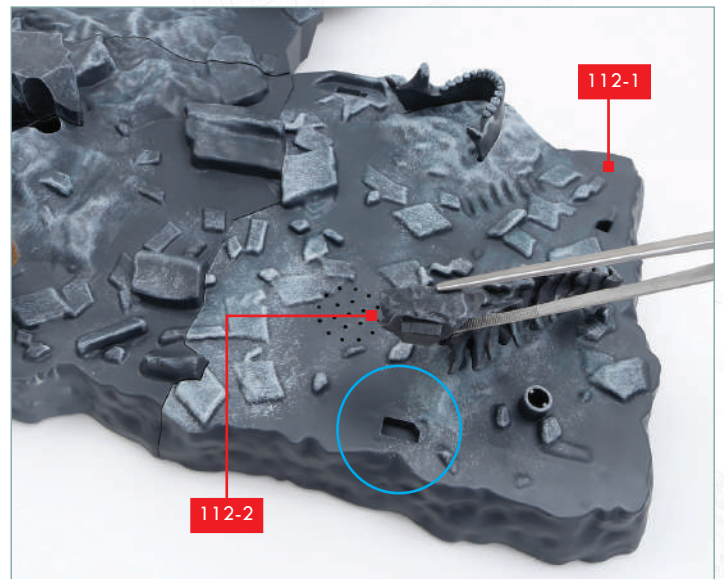
STEP 6

Identify the three holes in the base **112-1** where the vertebrae **112-4** fit (circled). Check how the pegs on the vertebrae fit into the recesses. Apply glue to the pegs on the vertebrae.



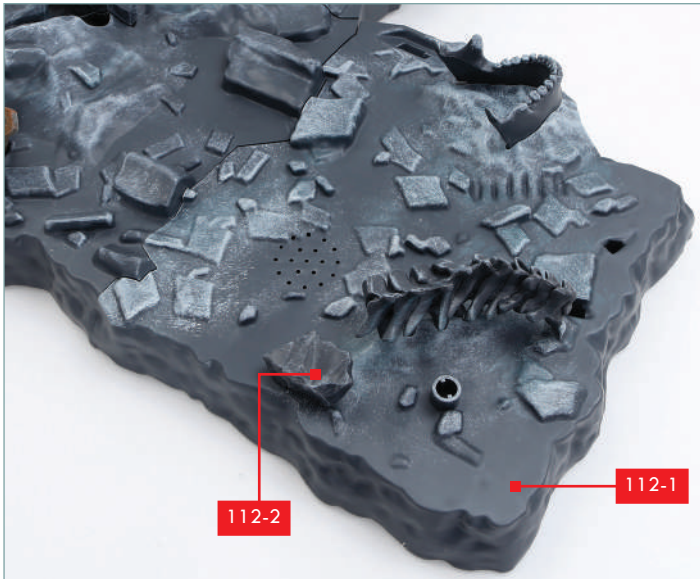
STEP 7

Fix the vertebrae **112-4** in place, as shown.



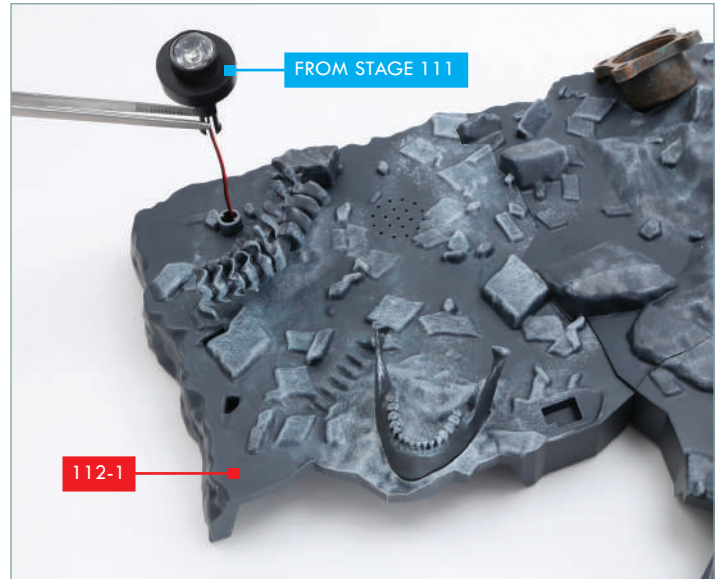
STEP 8

Identify the recess for the rock **112-2** (circled). Check how the rock fits, then apply glue to the shaped part of the rock that fits in the recess.



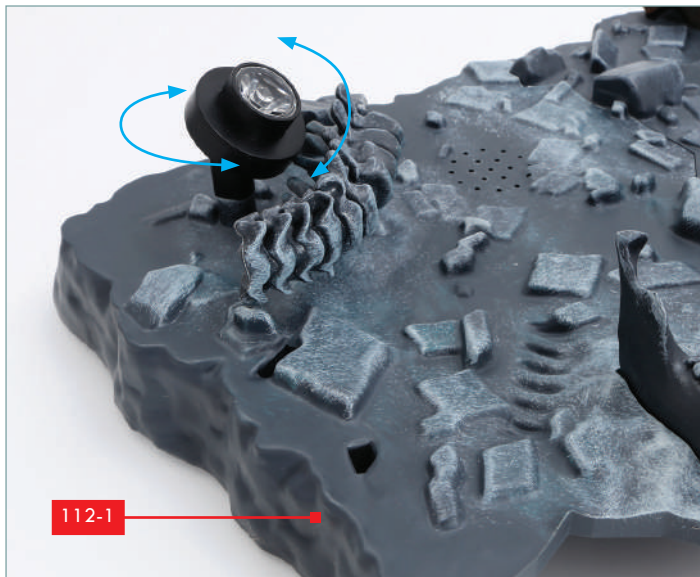
STEP 9

Glue the rock **112-2** in place on base **112-1**, as shown.



STEP 10

Take the LED searchlight assembly from stage 111. Thread the end of the cable through the hole in base section **112-1**.



STEP 11

Push the stand of the LED into the hole in the base **112-1**: ribs on the inside of the hole fit into slots in the stand. Once in place, the searchlight can be angled and twisted slightly.



STAGE COMPLETE!

The third section of the base has been fixed in place and details have been added.