

STEP-BY-STEP BUILD: PART 4

Eyestalk and left energy dispenser assembly.

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# DALEK MODELS

he Daleks are an artificial species. They did not evolve in the traditional way of most lifeforms, with hundreds of generations adapting to their environment through the process of natural selection. Their creator, Davros, instead chose to make them completely identical in appearance, identity and mindset. Daleks have only on the rarest of occasions taken individual names, and their outer casings reflect this uniformity.

However, over the centuries the Daleks have modified and updated their armour many times to meet new challenges. When the Doctor first encountered them on Skaro, the Daleks were confined to their metal city. The Doctor deduced that their power source was static electricity which they absorbed through the floors of their home. This was a significant vulnerability which the Doctor and his companions exploited by pushing a Dalek onto the large cloak of a Thal. The cloak's plastic material blocked the energy the Dalek needed to survive and the creature quickly became dormant.

#### **RE-ENERGISED DALEKS**

The next time the Doctor met the Daleks, the creatures were far more formidable. They had adapted to the challenges of space travel and found a way to power themselves across any surface by attaching a small dish to their backs that received energy from stationary transmitters. They also had larger bases to cope with rougher terrain. Over time, the dishes were dispensed with in favour of compact power units within the casings themselves. When they chased the Doctor across time and space, the two wide metal strips circling their central section were replaced by a series of vertical slats. These slats function





White Imperial Daleks loyal to Davros, and the Black Renegade Daleks.

as solar-energy convertors, and have remained a key component of almost every Dalek design since.

The Daleks who engaged in the Time War with the Gallifreyans were bronze in colour, with a 'hood' over their eyestalks. The bronze coating was the result of the Daleks having been specially adapted for battle in a multi-temporal environment. This form of 'skin' could absorb Artron energy, a type of radiation found in the space/time vortex that was used to power TARDISes.

#### SPECTRUM OF EVIL

Most Daleks are basic soldiers dedicated to the glory of the Dalek Empire. Even so, every army needs ranks, and the Daleks are no exception. Colour is the most common way of separating the officer class from drones. The Dalek Supreme seen in the Daleks' first invasion of Earth in the 22nd century had a black casing, as did the one during the Daleks' bid to create the Time Destructor with the aid of Mavic

Chen. When the Daleks conquered the Earth for a second time, the highestranking Dalek was completely golden. Gold remained the colour for the Dalek Supreme seen on the planet Spiridon, but this Dalek was also larger than the soldiers it commanded, with a taller base, different eyepiece and dome lights. A black Dalek Supreme returned to menace the Fifth Doctor when the Daleks attempted to free Davros from Earth's space fleet. It is possible that this was the same Dalek Supreme that reappeared in London 1963; it selfdestructed when the Seventh Doctor coldly informed it that it had failed in its mission to claim the Hand of Omega. Dalek Sec. the leader of the fabled Cult of Skaro, was never referred to as the Dalek Supreme, but he seemed to occupy the same rank. He also had a black casing before his mutation into a humanoid form in New York in 1930.

#### SUPREME LEADERS

The Tenth Doctor encountered a very different Dalek Supreme during the

The Dalek Emperor. NEW DALEK DANGER

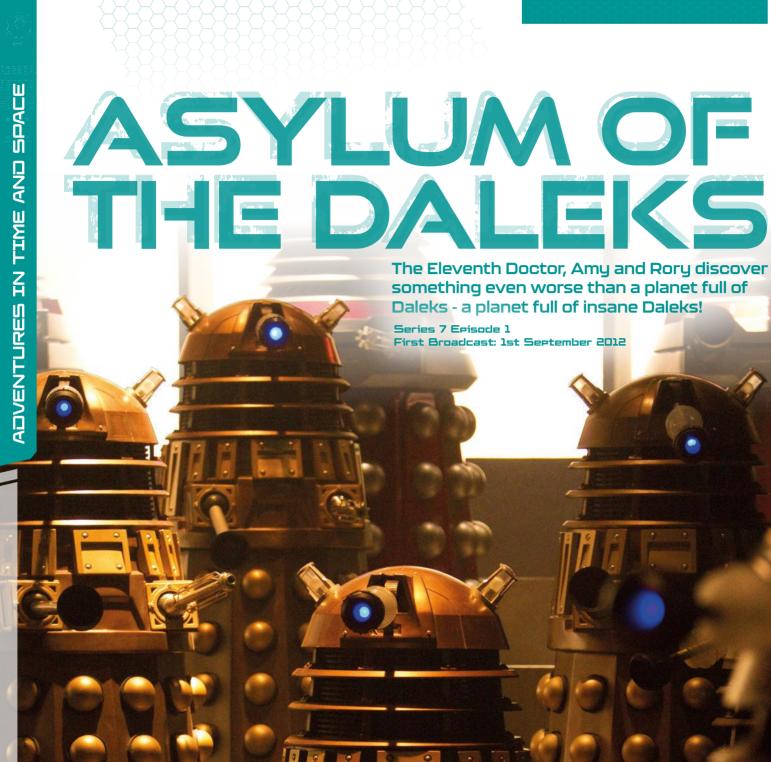
In the Second World War, the Eleventh Doctor confronted an elite new breed of Daleks which were a radical departure from the species' basic template. The five members of the New Dalek Paradigm were each a different colour, signifying their individual purposes. They were much taller than standard Daleks, and their backs were bulkier to accommodate an array of additional weapons and tools. They considered themselves 'pure' Daleks, and exterminated the 'Ironside' Daleks (who were painted military green) that released them.



Daleks' gambit with the Reality Bomb. This version was mostly red and towered above the common Daleks. It had three dome lights and a series of yellow support struts encircling it. This Dalek Supreme (or another incarnation of it) reappeared when the Dalek Parliament kidnapped the Eleventh Doctor.

For a time, white became the standard colour for the Dalek army, thanks to Davros. He created an entirely new breed of Daleks while hiding on the planet Necros, giving them white casings with gold livery. This new design continued when Davros succeeded in overthrowing the original Daleks and claimed the title of Dalek Emperor.

The actual Dalek Emperor has always been a massive, immobile creature. The Second Doctor encountered one on Skaro. Its only resemblance to a traditional Dalek was due to its eyestalk and several hemispheres. It was destroyed when the Doctor triggered a Dalek civil war. The Dalek Emperor that fought in the Time War was a huge structure with a large dome. Unusually, the Dalek mutant was visible below it.

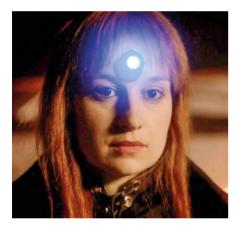


The Eleventh Doctor, Amy and Rory discover something even worse than a planet full of Daleks - a planet full of insane Daleks!

> Series 7 Episode 1 First Broadcast: 1st September 2012



massive statue of a Dalek looms over a ruined city on the planet Skaro. A woman named Darla waits inside. The Doctor steps out of the shadows - he has received a message from Darla. She says she has a daughter named Hannah trapped inside a Dalek prison camp. The Doctor is suspicious - Darla says she escaped, but he knows she is lying: "Nobody escapes the Dalek camps." Suddenly a Dalek eyestalk emerges from Darla's forehead. A gunstick also appears out of her hand. It fires, and the Doctor is blasted into unconsciousness. A Dalek saucer descends outside. A familiar screeching voice says, "The Doctor is acquired ... "



In a large house in London, Amy Pond is modelling clothes for a photoshoot. She is told that her husband has arrived. "I don't have a husband," she replies. Rory Williams is waiting for her in a make-up room. He has divorce papers for Amy to sign. The pair respond coldly to one another. Amy signs the papers and Rory leaves. The make-up woman prepares to work on Amy, but another Dalek eyestalk emerges from the woman's forehead.



There is a flash of energy and a Dalek voice announces that "Amelia Pond has been acquired." Meanwhile, Rory is captured by yet another Dalek agent on a bus outside the house...

Rory wakes up in a white room. Amy is also there. A fleet of Dalek saucers hover outside in space. They are joined by the Doctor. The trio are moved to a massive chamber filled with thousands of Daleks. The Doctor explains that they are in the Parliament of the Daleks. The Doctor assumes they have been brought there to be killed. He shouts to the Daleks to get it over with. Instead, the Daleks all begin to chant, "You will save the Daleks! Save the Daleks! Save the Daleks!"



Meanwhile, a young woman named Oswin Oswald prepares a soufflé in her small living quarters. It is burnt. She listens to the opera Carmen as she makes sure her defences – some planks of wood – are secure. She can hear Daleks outside, trying to get in. She turns the volume up on her stereo and tries to blot out their horrible voices...

The Dalek Prime Minister speaks of the Dalek Asylum; a legendary place where all the insane, uncontrollable Daleks are sent. The Doctor has never believed it exists, "Because you'd just kill them."



#### A MEMORABLE COMPANION



Actor Jenna-Louise Coleman, who had been cast as future companion Clara Oswald, made her first Doctor Who appearance in Asylum of the Daleks. Coleman had previously auditioned for the role of Mels in the 2011 story Let's Kill Hitler. While working out the plot of Asylum of the Daleks, showrunner Steven Moffat realised that the Doctor would never actually see the woman trapped inside the Dalek, and decided that Coleman could also play her. This helped set up the living many different lives across history. Coleman auditioned three times for the role. "Matt [Smith] was in the audition with me and he made me feel like we were both in it together, which was lovely," she recalled, "and I just left the room on a massive high, with a feeling of, 'This would be great to do day-in, day-out, on set, together with Matt."

Jenna Coleman as Clara (left), and as Oswin (right).



The Prime Minister explains that it would be offensive to destroy such "divine hatred". A portal opens in the floor and the Asylum planet is revealed, surrounded by a forcefield. It contains millions of Daleks. A signal is being sent from the heart of the Asylum – it is music from Carmen. The Doctor makes radio contact with Oswin who is overjoyed



to hear a non-Dalek voice. She is part of the crew of a shipwrecked spaceship called the Alaska. The Doctor is shocked to hear that Oswin has been there for a year, and doesn't understand how she has survived on a planet filled with Daleks.

The time-travellers are given bracelets that will prevent them being converted into slaves by a Dalek nano-cloud at work in the Asylum. The Daleks fire the trio down to the planet on a gravity beam. The Doctor and Amy land on a snowy mountain but Rory is nowhere to



be seen. They meet Harvey, an apparent survivor of the Alaska crash, but they soon discover that he and the other members of the crew have actually been killed and turned into Dalek slaves. The pair escape underground, but Amy loses her bracelet. Time is running out for Amy; the Doctor knows she will be soon be killed and converted like the Alaska crew.

Rory finds himself underground, surrounded by dormant Daleks that begin to awaken. He is contacted by Oswin and guided to a safe area.

The nano-cloud begins to affect Amy's perceptions. She sees what she thinks



is a strange party being held by a group of well-dressed people, but they are actually Daleks. The Doctor goads a Dalek with no firepower into activating its self-destruct mechanism, then sends it rocketing backwards into the Dalek 'party', destroying them all.

The Doctor finds Rory, but Amy has collapsed – she has little time left. "Do you know how you make someone into a Dalek?" Oswin asks over an intercom. "Subtract love, add anger." The Doctor doesn't understand how Oswin could have protected herself from the Daleks and hacked into their computer network. She replies that she is a genius. The Doctor declares that they have to



#### OUTSIDE THE ASYLUM

The snowy exterior of the Dalek asylum was filmed in Spain on 15th March 2012, during the shooting of another episode, *A Town Called Mercy*. Producer Marcus Wilson realised that adding another day to that story's shooting schedule would mean they could take advantage of the nearby Sierra Nevada mountain range. Director Nick Hurran, actor David Gyasi and director of photography Neville Kidd were flown out to the location where they joined Matt Smith and Karen Gillan, and the scene was quickly completed.

The Sierra Nevada National Park proved the perfect backdrop for the exterior of the Dalek Asylum (right).



neutralise all the Daleks, rescue Oswin. escape from the Asylum and fix Amy and Rory's marriage. He plans to teleport them all back to the Dalek spaceship as soon as Oswin drops the forcefield around the planet. Oswin insists that the Doctor collects her first. He runs off to find her.

Rory tries to give Amy his bracelet, believing that he will resist the nano-cloud longer than her because it subtracts love. He says, "Amy, the basic fact of our relationship is that I love you more than you love me." Amy is angered by this. Rory has always wanted children - she says that she gave Rory up when she discovered that she could no longer become pregnant. A tearful moment is cut short when they both realise that the Doctor has already given Amy his bracelet.

The Doctor enters the Intensive Care chamber. It contains Daleks that were



sent on missions to various worlds: Spiridon, Kembel, Aridius, Vulcan, and Exxilon. They all survived battles with the Doctor that left them deranged. They come to life in his presence, screaming with hatred. Oswin hacks into the Daleks' telepathic hive mind, the Path Web, and erases their knowledge of the Doctor.

The Doctor enters the room where Oswin is being held and realises the tragic truth: Oswin is no longer alive. She is in fact a Dalek that still believes itself to be a

human. The Daleks converted her to exploit her intelligence. A heartbroken Oswin shuts off the force field and tells the Doctor to run.

The Doctor, Amy and Rory teleport back to the Daleks' spaceship just before the Asylum planet is destroyed. The Dalek Parliament no longer knows who the Doctor is: the Doctor realises that Oswin performed a complete erasure of the entire Dalek race's memories of him. "Doctor who?" they ask. The trio escape in the TARDIS.

Back on Earth, Rory and Amy decide to start over again. A joyous Doctor flies off in the TARDIS...



#### THE DALEK LEGIONS

Just a few of the Dalek props seen in Asylum of the Daleks.

Eight new bronze Daleks were constructed by the BBC Cymru Art Department for the story, as well as a cracked version of a Paradigm Dalek from Victory of the Daleks. The many different types of Dalek props came from various sources; most were high-quality replicas that had been built by fans. One came from former showrunner Russell T Davies who owned a gunmetal grey Dalek made in the style of the Genesis of the Daleks props. There was also a grey Dalek from Resurrection of the Daleks, the Special Weapons Dalek from Remembrance of the Daleks, an Ironside Dalek from Victory of the Daleks, and a modified Dalek Supreme from The Wedding of River Song. Steven Moffat

observed, "Just as when you gather a bunch of people into a room, they all look like people but they all look different, for the first time ever, the Daleks looked like a species as opposed to a range of robots. They were quite distinctly a lifeform." In total, 18 Dalek props were used in Asylum of the Daleks, the most ever seen in a Doctor Who story.



SCENES III

DALER CYCSTALK For a creature driven by hatred, it seems fitting

that they should view the world through a single, myopic lens. Read on to discover the sophisticated engineering behind the Dalek's visual apparatus.

he eyestalk is the main sensory device the Dalek uses to perceive its environment. The lens of the Dalek's eyepiece is the single most sensitive piece of equipment in the Dalek's casing, but it is also the most vulnerable. Because of the need for delicate engineering, the eyestalk is the only piece of the outer armour that is not constructed of the super-hard alloy Dalekanium. The Doctor and other enemies of the Daleks have learned to concentrate their fire on the eyepiece, usually with positive results. The Fifth Doctor directed a squad of soldiers to destroy it, and the Dalek experienced a moment of panic that enabled them to hurl it to its destruction. The Sixth Doctor likewise destroyed an eyepiece with machine-gun fire on the planet Necros [1], and this Dalek also had a panicking episode. The sudden loss of vision appears to release a suppressed fear response in the Dalek brain.

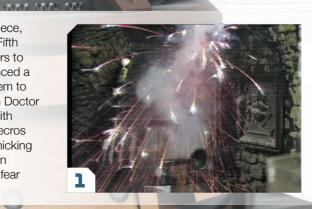
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The lenses of the early eyepieces were vulnerable to being covered, as the First Doctor and his companions discovered when they were taken captive on Skaro. They used a clump of mud to blind a Dalek guard, giving them the opportunity to render it powerless. Dalek eyepieces were later equipped with heat emitters that could dissolve most substances. When the Doctor's friend Wilfred Mott hit a Dalek in the eyepiece with a pellet from his paintball gun **[2]**, the Dalek's vision was only momentarily impaired before it melted the paint.

Directly behind the eyepiece is a series of discs attached to the eyestalk. These have a dual purpose: they are insulator units that protect the eyepiece from cosmic radiation, and are essential when the Dalek is operating beyond a planetary atmosphere in the vacuum of space. The discs also function as magnification devices that amplify the Dalek's vision.



Dalek eyepieces function far more accurately than the human eye, and are capable of telescopic vision similar to a sniper's rifle gunsight. Daleks can fire on targets with pinpoint accuracy from up to 300 metres. They can also magnify the images of nearby objects up to 1000 percent. Daleks specially modified for scientific work have eyepieces that function like electron microscopes, with magnification levels of 20,000,000 percent. The more advanced Dalek Scout encountered by the Thirteenth Doctor on Earth in 2019 had an x-ray



component in its lens that enabled it to scan the Doctor's body and confirm her identity by studying her two hearts [3]. The New Paradigm Daleks who confronted the Eleventh Doctor during World War II had what appeared to be organic eyeballs inside their housings [4].



Most Dalek eyepieces are protected by a mechanical iris that can completely close if necessary. Post-Time War Daleks all have a blue light in the centre of their eyepieces which indicates their power levels. While having a permanent light on display is a tactical disadvantage for the Daleks, it has been theorised that they keep it as a tool of intimidation.

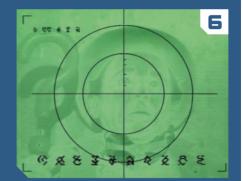
### "MY VISION IS IMPAIRED! I CANNOT SEE!" - DALEK WARRIDR

All Daleks have a sophisticated infrared system built into their lenses. As the temperature of objects and people increases, so does the movement of their atoms, causing them to radiate more infrared energy. These are converted into electronic signals by the lens that become a detailed visual image. As a result, Daleks do not need any form of spotlight to find their targets in total darkness. They can also scan for residual heat patterns to aid them in tracking their targets: when the Fourth Doctor kidnapped Davros on Skaro, the Daleks were able to follow him by scanning for the heat patterns left by his footprints.

When the Twelfth Doctor, Clara Oswald and a team of soldiers from the hospital ship Aristotle were reduced in size and sent inside a malfunctioning Dalek, they used the eyepiece as their point of entry, due to its vulnerability **[5]**. They



discovered that the inner area of the lens houses a protective liquid membrane similar in consistency to the aqueous humour of the human eye. The Doctor and his human companions passed through the membrane with no ill-effects. As they travelled along the interior of the eyestalk, the Doctor noted that it was transmitting electrical signals to the Dalek's brain (much as a human brain receives signals via the optic nerve).



The visual images that the Daleks receive have changed over the centuries. Early Dalek perspectives resembled a simple circular image. Later ones, like the Daleks that the Third Doctor encountered on the planet Exxilon, saw through a lens with a warped mirrored effect surrounding the main image. The Imperial Daleks who attempted to exterminate the Seventh Doctor saw through a green sight accompanied by streams of Dalek text **[6]**. Following the Time War, the Daleks have viewed their surroundings in a blue light with magnification settings **[7]**.



# **DALEK DOME**

1885 <b>(</b>	
888	OF ISSUE 4
4 <b>A</b>	COWLING FOR EYE ARM
4 <b>B</b>	FRAME FOR LEFT ENERGY DISPENSER
<b>'C</b>	DIFFUSER FOR LEFT ENERGY DISPENSER
۳D	BULB FOR ENERGY DISPENSER
46	ENERGY DISPENSER LIGHT AND CABLE
Ч₽	FIXING PLATE FOR EYE ARM
۴G	COG MECHANISM FOR EYE ARM
414	THREE HEXAGONAL HEADED SCREWS (1 spare)
4 ALLEN KEY FOR HEXAGONAL HEADED SCREWS	
ЧK	
46	EYE ARM FIXING PLATE
AP	FIVE 2.3 X 4MM PB SCREWS (1 spare)
BP	FIVE 2.6 X 5MM PB* SCREWS (1 spare)
AM	FIVE 2.6 X 5MM PM SCREWS (1 spare)
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* (DD	
(PB = part-riead screws for plastic)	
t [PM = PAN-HEAD SCREWS FOR METAL]	



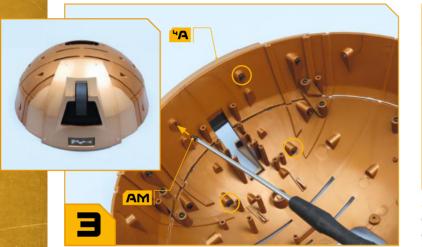


#### **#04-01**

Part

Fit the pegs on the back of the data panel **4K** into the holes in the eye cowling **4A** so that part **4K** fits in the

recess. The pegs are different sizes to help ensure you fit the part the correct way round. This is a push-fit connection.



#### #04-03

From the inside, fix part 4A in place with four AM screws (circled). The inset shows the part in place.



#### #04-02

Check how the cowling 4A fits on the dome frame assembly from the previous issue. The sides of part 4A butt up to the edges of the panels 3B and 3D fitted in the previous issue. Shaped tabs on the back of part 4A fit into slots in the dome frame and four raised screw sockets on part 4A align with screw holes in part 3E/F.



#### #04-04

Check how parts **4B** and **4C** fit together: the pegs on the base of part **4B** are different sizes, and fit into different sized holes in part **4C** (arrows). When in place, four raised screw sockets on part **4B** fit into the cut-outs in part **4C** (circled, inset above). Push firmly in place.

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#### **#04-06**

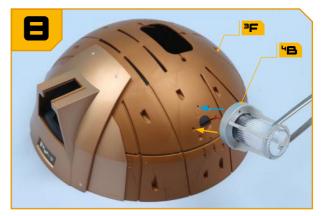
Fit the light assembly from step 5 into the frame and diffuser assembly from step 4. Rotate the light assembly as necessary so that all the elements are correctly aligned: the red arrows indicate the fitting positions for the small and large pegs on part 4B. Fix part 4E in place with two AP screws: note which sockets they are fitted through (circled, Left).





#### #04-07

Plug the cable on part 4E into the small socket in the corner of the testing circuit board 2D. With the batteries in place, and the switch set to off, plug the battery box 2H into the large socket in part 2D. When you switch the battery box on, the light in the deflector slowly flashes. Note that this light will be brighter when the model is complete - the test mechanism provides lower power. After switching off the battery box, unplug the connections and remove the batteries.



#### #04-08

Take the dome assembly from step 3 and identify the fixing point for the energy dispenser assembly on the left-hand side of the dome frame: the cable goes through a hole in the dome frame **3F** (labelled L). The two pegs on the base of part 4B fit into recesses in part 3F; the larger peg is to the left (yellow arrow). Also, screw holes in part 4B line up with sockets in part 3F (blue arrow).



#### #04-09

Fix the energy dispenser 4B in place with two screws 4H. Fix them in place using the Allen key 4J.

#### #04-10

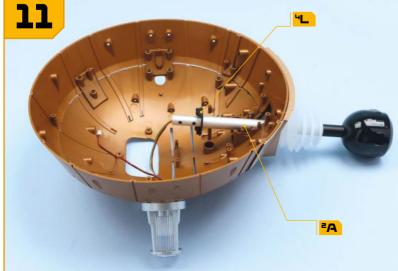
Take the eye arm assembly from issue 2 and fit the free end of the arm 2A and the cable 1H through the cowling 4A and the slot 3C.

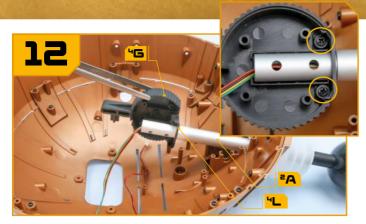




Fit the eye arm fixing plate 4L onto the end of the eye arm 2A, noting the orientation of the part (below).

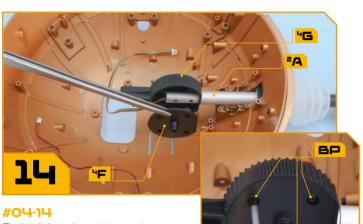




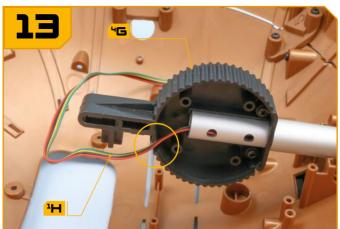


#### #04-12

Take the cog mechanism **4G** and position it against the fixing plate **4L**: screw holes in part **4L** align with small screw sockets in part **4G**. The holes in the eye arm **2A** fit over raised pegs in part **4G**. Fix the plate **4L** to part **4G** using two **AP** screws (circled, above).

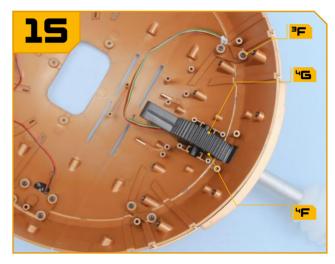


Fit the fixing plate **4F** over the open side of part **4G** so that the end of the eye arm **2A** is enclosed and the pegs on the inside of part **4F** fit into the holes in the eye arm. Fix part **4F** in place with four **BP** screws (right).



#### #04-13

Run the cable **1H** through the recess in the rim of part **4G** (circled).



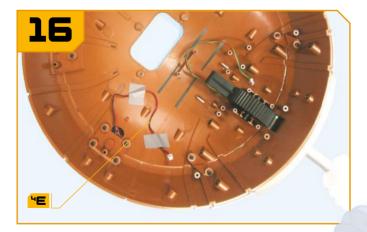
#### #04-15

Fit the pinions on parts 4G and 4F into the brackets on part 3F, as shown. This will be fixed in place at a later stage.

#### COMPLETED WORK

#### **#04-COMPLETED WORK**

The eye arm and the left energy dispenser have been fitted to the dome frame.



#### #04-16

Finally, to prevent the light cable connection from becoming weak, tape the cable of part **4E** in place in a couple of places, as shown.

## COMING IN I

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Another panel for your Dalek's dome, plus bulb and fixings for the first head lamp.







The Daleks fight amongst themselves for supremecy!

#### ADVENTURES IN TIME AND SPACE



It's back to the 60s in *Remembrance of the Daleks*.

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