

# THE DALEK

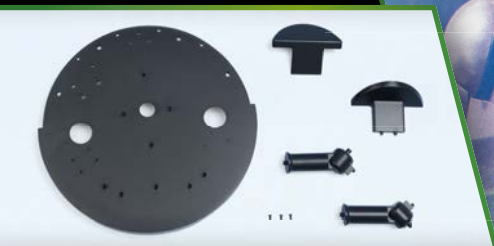
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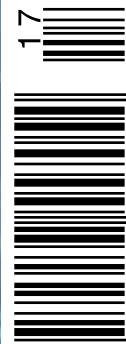
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# DALEK

ISSUE 17



## ADVENTURES IN TIME AND SPACE: GENESIS OF THE DALEKS - PART 4

3

The war is over! Or is it? The Daleks rise from the ashes of destruction!



## ANATOMY OF A DALEK: DAVROS

6

Davros' own scientific genius keeps him alive for centuries!



## STEP-BY-STEP BUILD: PART 17

8

The front and back pieces of the backrest, plus the column stands.

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# GENESIS OF THE DALEKS

## PART FOUR

**Davros commits genocide, sacrificing his own people so that his Daleks might survive.**

**Season 12 Episode 14**  
**First Broadcast: 29 March 1975**

**L**eft alone in the Thal silo, the Doctor examines the rocket, unaware that the guard is regaining consciousness. As the Doctor touches a metal grating at the base of the scaffolding, the guard crawls to a control panel and hits a button. The grating is suddenly flooded with a massive electrical charge. The Doctor is pinned to the grating by the energy, his face contorted in agony. He blacks out.

The Doctor slowly awakens to the sound of explosions. He's propped up against the wall in the Thal military intelligence headquarters. Officials are watching a monitor showing the Kaled dome. Thanks to the information supplied to them by Davros and Nyder, the Thals' weapons are beginning to weaken it. The Thal leader turns to the others with a triumphant smile and says, "It's working! The Kaled dome is breaking up! Start the countdown for the rocket launch!" The Doctor protests but is too weak to do anything.

He watches a countdown clock begin to tick away at 50 seconds. 49... 48...

Inside the Kaled bunker, Davros, Nyder and the Elite scientists are also watching the destruction of the dome. Kavell is horrified. "How could the Thals have found the formula to destroy our dome?" he asks. Nyder feigns anger. "Someone has betrayed us!" Davros plays along, stating that the traitor has brought about the extermination of the Kaleds...

The Doctor stares at a destruct button for the Thal rocket as the countdown nears its end. He hurls himself towards it but is knocked back by several soldiers. The rocket is launched and hits the Kaled dome, obliterating it in a ball of fire.



The explosion shakes the Kaled bunker. Davros turns away from the monitor. "We will avenge the annihilation of our people with a retaliation so massive, so merciless, that it will live in history!" he snarls. He flicks a switch and three Daleks glide into the room. Davros accuses Ronson of being the traitor and orders the Daleks to exterminate him. Ronson screams in agony as he is killed. Davros orders the Daleks to obey their programming and carry out their mission. They move off...

Mass cheering can be heard throughout the Thal dome as the people realise that the thousand-year war has finally ended. The Thal leader is overjoyed. He considers having the Doctor punished but decides to be magnanimous in victory; he orders all prisoners to be pardoned and released.



The Doctor is left with a young woman, Bettan. The Doctor tells her of the Daleks, and the real reason why Davros turned on his own people. Bettan doesn't understand and leaves.

Davros hands Gharman a list of chromosomal variations to be introduced to the Dalek embryos. Gharman points out that they will result in creatures with no sense of right or wrong, conscience or pity. Davros agrees, but demands that Gharman obey him without question. The scientist complies and departs. Nyder tells Davros that the Daleks are all in position.



The Doctor has changed back into his normal clothing and makes his way past a group of celebrating Thal soldiers. The men turn a corner to find two Daleks waiting for them. "Exterminate!" is the last word the soldiers hear as the Daleks cut them down with their energy beams. The Doctor hears their cries and races back in their direction. He runs into Bettan and pulls her into an alcove just before the Daleks glide past them. Bettan agrees to help the Doctor get out of the Thal dome and back into the Wastelands.



Davros tells his scientists that their work on other projects must be halted. Only the Daleks matter now. The frightened men listen as he screams, "Nothing must delay this glorious project!"

The Doctor and Bettan reach a deserted outpost in the Wastelands and take a moment to catch their breath. They have witnessed the fall of the Thal dome under the merciless Dalek assault. The Doctor says that the Thal survivors have to be assembled into a fighting force to attack the Kaled bunker. "Destroy Davros and you destroy the Daleks," he says. Bettan agrees to try to rally the survivors. The

Doctor continues on towards the bunker. The Doctor returns to the caves that he and Harry had earlier used to escape the bunker. He is attacked by Mutos but is saved by Sevrin, Harry and Sarah. The Doctor is overjoyed to find that his friends have survived. They explain that they never reached the Kaled dome because they were attacked by Mutos. Harry realised that the Doctor would eventually return to the caves. Sarah learns that without the confiscated Time Ring, they will never be able to leave Skaro.

The Time Ring is still sitting on Ronson's desk. Gharman subtly motions for Kavell to join him there. The two men whisper to each other, trying not to be overheard by Nyder's men. Gharman tries to convince Kavell that they must stop the production of more Daleks, but Kavell is fearful, remembering Ronson's fate. "If the whole of the Scientific Corps act against Davros, he can't proceed!" Gharman says. He urges Kavell to talk to the other scientists and gain their support. But the two men are unaware that Nyder is close by, listening to them...

The Doctor asks Sevrin to find Bettan in the trenches and get the Mutos to join forces with her and the Thal survivors. The Doctor, Sarah and Harry continue on their path to the bunker.

Nyder approaches Gharman and asks to talk to him. Gharman is surprised to see the normally stoical Security Chief looking shaken. Nyder whispers to him that Davros has become a megalomaniac. "He's ready to sacrifice everything and everyone – including us – just so that

## DARING INSPIRATION

Producer Philip Hinchcliffe took an interest in the initial design of Davros. "When it came to Davros, I said to John Friedlander that I had remembered from my childhood this comic called *The Eagle* which had a space hero called Dan Dare. And the big foe of Dan Dare was the Mekon who was a character who had virtually no body. [He was] incapacitated in some way but he had this big, green, dome-like head. And I said to John, 'Look, I've just got a feeling something like that might work.'" The Mekon and Dan Dare were the creations of British cartoonist Frank Hampson. The *Dan Dare* comic strip was launched in the first issue of *The Eagle* in 1950 and ran until the title's conclusion in 1969.



Davros – inspired by the Mekon from *Dan Dare*.

## LIGHTING

The atmospheric shadows and eerie colours on display throughout *Genesis of the Daleks* are thanks to the talents of Duncan Brown, who arranged the studio lighting. "The sense of gloom comes straight out of one's head," he commented. "Well, it actually comes from the script. If you read the script properly, you'll know what it feels like. The rest of it is up to you and is not that difficult." Philip Hinchcliffe praised Brown's work on the story: "It was all part of the thing of, 'Let's try and make the world of the Daleks and the Daleks themselves emerge from the shadows.' You don't see the joins in the scenery, you don't see that the Daleks are made of wood if you just take [the lighting] down, but that takes a very good



the Dalek Project can be completed.” Gharman agrees to meet Nyder in private on the lower level.

The Doctor, Sarah and Harry narrowly avoid getting grabbed by Davros’ giant clams. “I’ll never eat oysters again!” Sarah says. They find the ventilation shaft and start crawling down it.

Gharman enters a dimly lit detention cell on the lower level and meets with Nyder. Gharman says that he and the scientists plan to deliver Davros an ultimatum: they will only continue with the Dalek Project if he agrees to restore the Daleks’ minds. “The creature must have a moral sense; a judgement of right and wrong.” If Davros fails to agree, they will destroy all of his



work. Gharman lists all the scientists on his side. Nyder’s manner suddenly changes. “Thank you. That’s what I wanted to know,” he says loudly. Davros glides out of the shadows. Gharman tries to run but Nyder brings him down with a blow to his head. Davros says that after some brain surgery, Gharman will still be of use to them. Nyder and Davros hear a metallic banging noise and realise that someone is inside the ventilator shaft...

Nearby, the Doctor, Sarah and Harry exit the shaft. The corridor lights come on and they find Davros and Nyder, gun in hand, waiting for them. The trio are soon restrained and placed inside an interrogation room. The Doctor speaks to Davros for the first time. Davros is intrigued by the earlier interrogation report that suggests the intruders could be travellers in time and space. The Doctor tells Davros that the Daleks are known in the future only for the destruction they cause. He suggests that Davros could still change them into a force for good. Davros realises that the Doctor has seen the Daleks in battle and wants to know if they always win. “Not always,” the Doctor replies. Davros demands to know details of the Daleks’ defeats in the future. “No, Davros,” the Doctor says. “That is a question that the future must keep secret.” Davros tells the Doctor that he will answer him because he has a weakness that has been removed from the Daleks: “You are afflicted with a conscience...”

In the Wasteland trenches, Bettan and Sevrin have gathered a group of Thal soldiers and Mutos together. Bettan says



that they will attack the bunker as soon as their numbers are strong enough.

Nyder has placed Sarah and Harry on platforms and attached several devices to their bodies. Davros tells the Doctor that he will answer his questions truthfully or the Doctor’s friends will be tortured. “I can create in their bodies all the torments and agonies ever known,” he says. Davros demonstrates by turning a dial. Sarah and Harry suddenly wince in pain. The Doctor knows that if he talks, he will be betraying millions of people in the future. He refuses to speak. “You will tell me!” Davros cries. The machines intensify the pain. “You will tell me!” Davros yells again. “YOU WILL TELL ME!”



lighting director because it means there’s more work to be done in the studio recording time. It needs someone with an artistic sensitivity but also someone who can work quickly and do it.”



## SCULPTING DAVROS

John Friedlander was the sculptor responsible for creating the impressive Davros prosthetic mask worn by actor Michael Wisher. Friedlander had previously worked on *Frontier in Space* and *Death to the Daleks* and was given the simple credit of ‘Masks’. He was credited as visual effects designer on *The Ark in Space* and *The Sontaran Experiment*, and received a special credit in the sixth episode of *Genesis of the Daleks* of ‘Davros’ mask’. Friedlander spoke to *Doctor Who Magazine* in 1981: “Peter Day was the visual effects designer on that show,” he recalled. “He told me about Davros while I was between working on two shows and I had a little time free. They hadn’t got an actor cast

as Davros then so I did the mask purely on spec. Peter Day did the mobile base and the back, and I did the head, the bits on top, and the hand.” Friedlander created many other memorable *Doctor Who* monsters including the Sea Devils and the Kraals.



# DAVROS

Davros has lived far beyond the normal lifespan of his species, and his body has naturally withered with age.

**D**avros' internal organs, such as his heart, lungs and kidneys, have atrophied and can no longer function without external stimuli. He is encased in a mobile chair of his own design. It is a highly advanced piece of technology that he has continuously modified and improved over the years. It became the design template for the Daleks' outer casings. The chair is a life-support mechanism that sustains Davros. A device called an Energiser operates as a mechanical lung, filtering the air and supplying oxygen and other gases to his body. It also maintains his heart rate.

Davros' brain requires regular electrical pulses to its upper thalamus in order to keep it alert and coherent. The metal brace (or cranial bracket) that surrounds his head is a cerebral monitoring system, relaying information to a personal computer inside the chair. The wires that connect Davros' skull to the cranial bracket are delicate sensory probes. Nothing is more important to Davros than his intellect and cognitive ability, and he therefore maintains them in the strictest manner possible. Centuries of enhanced electrical stimulation have caused Davros' cranium to expand to an unusual size [1].



Davros' senses have been enhanced in a variety of ways. His aged eyes have been closed for centuries. He sees via his Super Optic, an artificial eye that he created. It is embedded in the centre of his forehead and linked directly to the visual cortex of his brain. The Super Optic can magnify nearby objects up to 100 times their normal size. It can also perceive X-rays and other forms of infrared light. Davros is able to see people in pitch-black darkness using a delicate heat sensor.

Davros' ears failed him centuries ago. Replacing them is an Audio Input, a device that can detect and identify sounds, including ultrasonic waves that a normal human would be unable to perceive.

The Fatigue Eliminator is a device that suppresses the areas of Davros' brain that register fatigue. Davros is capable of functioning for weeks without sleep. However, he does require occasional brief shutdown periods to rest his mental faculties.

There is a central computer known as Omnipute installed in Davros' chair. It analyses and co-ordinates all of his life support systems, registering their functions and adjusting them when needed.



Davros' voice is augmented by an in-built synthesiser that amplifies the vibrations from his vocal cords. Without it, Davros would barely be able to speak in more than a whisper. All Daleks have been programmed to respond to his synthesised voice.

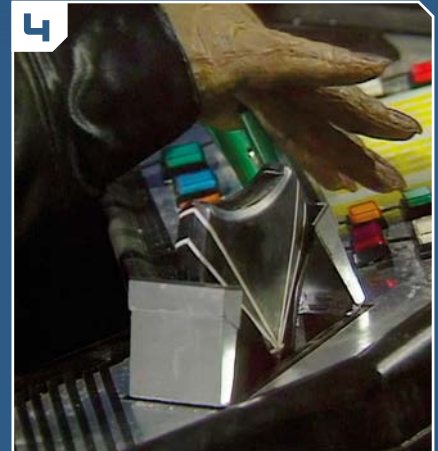
The round domes that line the base of Davros' chair are sophisticated sensors. They have different functions. Some register changes in temperature; others in oxygen and radiation levels. Some detect obstacles and protect the chair from collision.

Davros never leaves his chair; it is doubtful he could survive for more than an hour without it. His legs and left arm were destroyed in a bomb attack. His spine has been cybernetically connected to the chair, allowing him to control its direction and speed by thought alone [2]. At top speed, Davros' chair can move at 20 miles per hour.

If the chair's life support systems suffer major damage, a secondary back-up system is automatically triggered. If Davros' body is injured, a regeneration program is activated which promotes the growth of synthetic tissue to repair his wounds. Simultaneously, all of Davros' organs are immediately placed in a state of suspended animation.



The central power source of Davros' chair is a small fusion reactor positioned beneath the seat [3]. It can maintain the chair's functions at full capacity for up to 50 years before needing recharging. In periods of suspended animation, it can power the chair for over a thousand years if necessary.



A Neural Reprogrammer is hidden below Davros' control panel [4]. It is a small device which, when applied to the skin of a human or a Dalek, immediately delivers an energy pulse that paralyses the prefrontal cortex of the brain – the area that governs the will. It leaves the subject completely susceptible to Davros' commands.



The control panel at the front of the chair [5] is deceptively simple in appearance. While the number of controls is small, Davros can alter their various functions with mental commands, broadening their scope considerably. Davros could in fact activate almost all of the chair's devices mentally, but he prefers to use his surviving hand to physically manipulate the controls. It is the only part of his shattered body that he can still control, and he has no desire to abandon it.

# THE FOURTH DOCTOR VERSUS THE DALEKS

**T**he Fourth incarnation of the Doctor has clashed with the Daleks on several occasions. We take a look at his encounters with his archenemies.

## GENESIS OF THE DALEKS

(TV) by **Terry Nation**

The Doctor, Sarah Jane Smith and Harry Sullivan are sent on a mission by the Time Lords. They must either wipe out the Daleks before they can become the most destructive force in the universe, or change their path so they become less aggressive creatures. The time travellers find themselves caught up in the thousand-year war between the Thals and the Kaleds. The Doctor meets Davros, the dreaded creator of the Daleks.

## DESTINY OF THE DALEKS

(TV) by **Terry Nation**

The Doctor and Romana land on Skaro at a point in galactic history when the Daleks and the Movellans are engaging in a massive interstellar war – but both sides' battle computers are locked in a stalemate. The Daleks' solution is to dig beneath Skaro and find their long-lost creator Davros. The Movellans arrive on Skaro to stop them. A battle breaks out, with a group of slaves caught in the crossfire. Davros is resurrected, and clashes with the Doctor again.



Return of the Daleks.

## RETURN OF THE DALEKS

(comics)

by **Martin Asbury**

The Doctor and Sarah are shocked when the TARDIS dematerialises without them. It has been stolen by Shazar, a rogue Time Lord working for the Daleks. The creatures intend to manufacture thousands of TARDIS duplicates and create an army of time-travelling Daleks. The Doctor and Sarah battle them on a spacecraft orbiting the Sun.



## DOCTOR WHO AND THE DOGS OF DOOM

(comics) by **John Wagner, Pat Mills** and **Dave Gibbons**

The Doctor, Sharon and K9 learn that the savage Werelox have attacked a colony world called Davy Crockett. The few human survivors become wolf-like Werelox at the next full moon. The Doctor is also infected and spends months inside the TARDIS finding a cure. The Daleks are controlling the Werelox. They have a plan to take the most dangerous species in the universe and implant their abilities into their own DNA, creating a Dalek super-race.

## ENERGY OF THE DALEKS

(audio) by **Nicholas Briggs**

The Doctor and Leela arrive in London in 2025. The GlobeSphere Corporation is planning to solve the energy crisis by placing solar panels on the Moon and a satellite dish on top of the National Gallery. The Doctor detects strange energy readings and investigates. He uncovers a plot by the Daleks to destroy humanity through drastic meteorological changes.

## THE DALEK CONTRACT / THE FINAL PHASE

(audio) by **Nicholas Briggs**

The Doctor, Romana and K9 land on Proxima Major, a planet that has had its orbit changed by a dangerous experiment overseen by a ruthless businessman named Cuthbert. The Daleks are posing as mercenaries working for Cuthbert as they prepare to take control of a quantum gateway that he has created.



*The Dalek Protocol.*

## THE DALEK PROTOCOL (audio)

by **Nicholas Briggs**

The Doctor, Leela and K9 arrive on Exxilon and find the beacon of the Exxilon City is once again draining power from the TARDIS. The android Mark Seven and Space Security Agent Anya Kingdom, the sister of the First Doctor's companion Sara Kingdom, are also on Exxilon. The Daleks secretly reprogram Mark Seven to serve them.

## OUT OF TIME

(audio) by **Matt Fitton**

The Fourth and Tenth Doctors accidentally meet in the Cathedral of Contemplation, a unique building that exists outside space/time. The Daleks invade using a time corridor. If they gain control of the Cathedral they will be able to appear at any point in time and space. The two Doctors attempt to defeat them and keep the Cathedral's population safe.

## WATCHERS

(audio) by **Matthew Waterhouse**

The Doctor and Adric find themselves trapped in the Space/Time Vortex as the TARDIS joins the wrecks of many different time machines. They battle other time travellers including cyborgs, intelligent reptiles and Daleks.

## GENETICS OF THE DALEKS

(audio) by **Jonathan Morris**

The Doctor lands on Starship Future, a craft carrying 10,000 sleeping humans in stasis. After 20 years in flight the ship refuels, and a lone survivor from a Dalek Time Squad comes aboard. It tricks a scientist with the promise of advanced technology, and prepares to build a new Dalek army.



*Genetics of the Daleks.*



*The Final Phase.*

# MID SECTION

## DALEK MUTANT CONTROL CENTRE



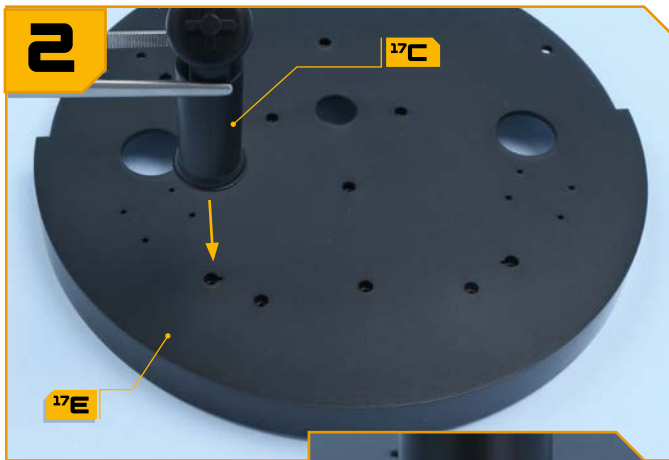
### COMPONENTS OF ISSUE 17

- 17A** BACKREST (FRONT)
- 17B** BACKREST (BACK)
- 17C** COLUMN 1
- 17D** COLUMN 2
- 17E** BASE PLATE
- AP** THREE 2.3 X 5MM PB SCREWS (1 SPARE)

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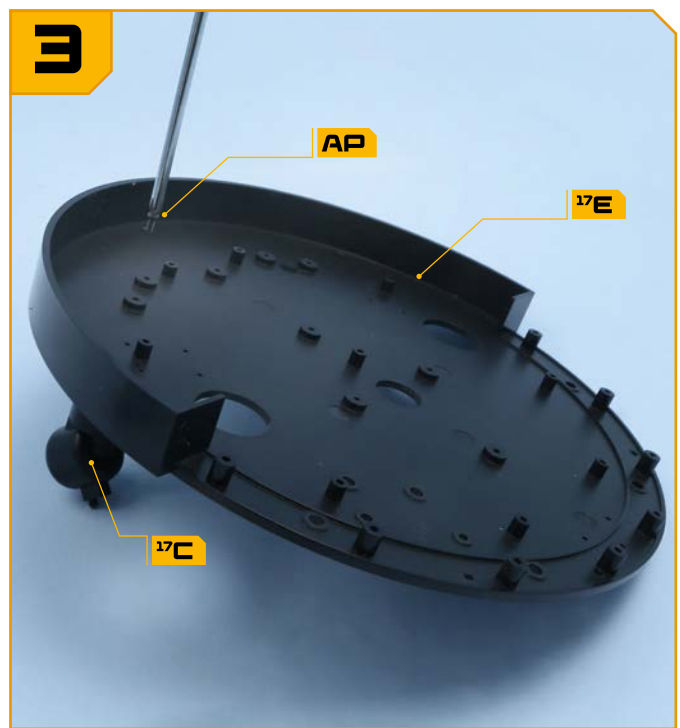


**#017-01**  
 Take the two parts of the backrest **17A** and **17B**. Fit them together as shown. This is a push-fit connection.



### #017-02

Take column 1 **17C** and check how it fits on the base plate **17E**: there is a small tab beside the peg on the base of part **17C** that fits into a recess beside the screw hole in part **17E** (inset). Note that the sloping face and peg at the top of the column face outwards.



### #017-03

Holding part **17C** in place, turn the base **17E** over and fix part **17C** in place with an **AP** screw.



### #017-04

Repeat the previous two steps to fit the second column **17D** in place. Note that the tab and recess run in the opposite direction (inset).



### #017-COMPLETED WORK

A backrest has been assembled and two columns have been fixed to a circular base plate.

# THE DALEK

COMING IN  
ISSUE 18

## BUILD PART 18

Get ready for a very exciting part of the build! You will receive the video card with the video frame back, backrest and front support. Plus the connectors.



## ANATOMY OF A DALEK



We take a look at the ultimate Dalek – the Emperor!

## ADVENTURES IN TIME AND SPACE



The Doctor and Rose come to *The Parting of the Ways*.

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