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DALEK

ISSUE 71



ADVENTURES IN TIME AND SPACE: DAY OF ARMAGEDDON

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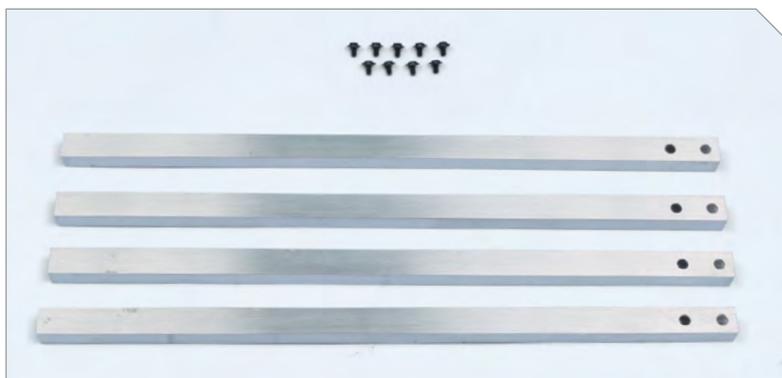
The Doctor must discover the details of the Daleks' plan for conquest.



ANATOMY OF A DALEK: FLAMETHROWER DALEK

8

The Daleks use the devastating power of fire to clear jungles.



STEP-BY-STEP BUILD: PART 71

10

Four upright struts and the fixing screws to hold them in position.

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BBC



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DAY OF ARMAGEDDON



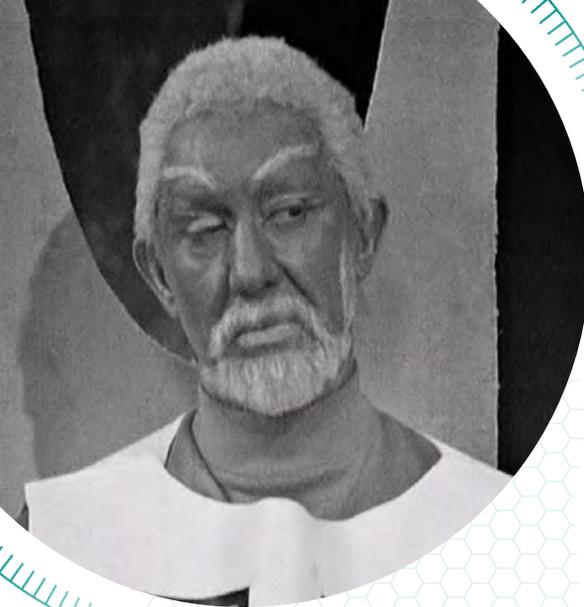
The Doctor places himself in danger in order to learn what the Daleks are planning.

Season 3 Episode 11
First Broadcast:
20 November 1965

At the TARDIS, the Doctor discovers two Daleks are examining his ship. "Inform base security that a further intruder craft has been located," one Dalek says, "security patrols Five and Seven will converge on this area. Priority alert. Invaders to be located and destroyed!" The Doctor carefully edges away, unnoticed. The Dalek states that a message has been received from the Dalek Supreme: "Operation Inferno to be put into execution at once." The Dalek patrols are ordered to evacuate to safety areas. A countdown begins...



Inside the city surrounded by the jungle, Mavic Chen writes at a desk. A Dalek enters the chamber, followed by a strange figure in a hooded cloak who walks slowly towards Chen. "I am Zephon, Master of the Fifth Galaxy," he says. Chen welcomes him warmly, then picks up some documents and



you mark yourself out as a supreme traitor?" Zephon asks. Chen is amused by the accusation and points out that forces have tried to depose Zephon in the past. Chen suggests that they go outside for some air.

Two Daleks report to the Dalek Supreme. One says that Mavic Chen must be watched: "His ambitions exceed his usefulness." The Dalek Supreme declares that all of their supposed allies will be eliminated in the end: "No power in this universe can stop the Daleks!"

Steven awakens in the jungle, disoriented. Katarina explains that the tablets she gave him have cured his illness. Steven soon learns that the Daleks are close by. The Doctor discovers them moments later. Katarina adds that Bret Vyon managed to get everyone out of the TARDIS before the Daleks arrived.

Elsewhere, Bret watches as three Daleks advance, their manipulator arms fitted with unfamiliar attachments. A fourth Dalek glides into view. "Operate pyro-flames!" it commands. The three Daleks obey, surging forward as jets of fire erupt from their arms.

Steven is now on his feet, trying to walk unaided. Bret joins the group and tells them that the Daleks are preparing to burn down the jungle. The Doctor says that they must all get back to the TARDIS, but Steven stops him. "But Doctor, don't you see it's a trap?" he asks. "That's exactly what they want us to do!" Steven is aware of the Daleks,



but when he compares them with the Mechanoids, the Doctor interrupts him. Their arguing is stopped by Bret, who tells both men to shut up. "Now look here, I don't care what happens to you, but I've got to warn Earth!" he says.

The Daleks move through the jungle with their flame jets. All the plant life they encounter is swiftly ignited.

Steven smells smoke. The group sees a wall of flame heading towards them. The Doctor leads them off in the direction of the Dalek city. "That's the last place they will expect us to go!" he says.

Mavic Chen and Zephon watch the jungle burning. Chen warns him against speaking



comments on the previous meetings held in the chamber. "The Daleks have evolved a most interesting plan," he comments. "You must admit that the Daleks have a genius for war." Zephon agrees. He is surprised that Chen, the Guardian of the Solar System, has agreed to join their secret war council. Chen tells Zephon that his role is only a part of one galaxy. Zephon points out that the Solar System is an exceptionally influential part of the universal power structure. "Surely by joining with the forces determined to destroy that power,



FX FILMING



The shots of the three Daleks burning the jungle on Kembel were filmed on Friday 1 October 1965, at Stage 3A/B of the BBC Television Film Studios at Ealing. Three Daleks were fitted with butane torches to create the flame effect, but a shot of the TARDIS visible in the flames was abandoned. The rest of the day was devoted to model shots. The main models used on the 24-foot square Kembel launch pad rostrum were two motorised versions of the Spar 7-40. Unfortunately, it was discovered that some of Shawcraft Ltd's models did not work properly. The studio session for *Day of Armageddon* was recorded in BBC studio TC3 at Television Centre on Friday 29 October. It began with a new version of the cliffhanger, with opening captions running over a shot of the Doctor in the jungle and the TARDIS. Smoke filmed at Ealing was superimposed over the studio footage to simulate the jungle fire. The first recording break was after the attack on Zephon to allow the character to be tied up; the second gave William Hartnell time to don Zephon's cloak and hood. Camera moves and set alterations were made during the next break before Zephon joined the delegates, and the final break allowed Julian Sherrier to move to the conference room set after Zephon raised the alarm.

ZEPHON

Day of Armageddon introduced the outer galaxy delegate Zephon, played by Julian Sherrier. He was identified in Nation's script as "President elect of the fourth galaxy". Zephon's people were described as "the greatest warriors in the universe". The script described Zephon as "humanoid in outline... he wears a full-length, close-fitting black cloak. Over his head, with slanting gashes for eyeholes, is a hood... if we see his face, we see that he has absolutely no features at all. His hands have fantastically long fingers."





casually about the Daleks. "The Daleks needed me," Zephon boasts, "without my help they would never have got the cooperation of the masters of Celation and Beaus. We are on equal terms!" Chen seems to find Zephon amusing. "Three galaxies for the price of one," he remarks, smiling. Chen returns to the meeting chamber, but Zephon stays outside. The delegates assemble in the chamber. Each is of a different species. Some need special equipment to breathe. They all seem to radiate malice and greed.

The Doctor's group arrives at the city and observes the several spaceships in its landing area. Bret is stunned when he recognises Mavic Chen's personal ship, the Spar 7-40. "He's the ultimate head of the Solar System!" Bret exclaims.



"Now, what's he doing here with the Daleks?" They hide as Zephon approaches. Bret grabs him and hauls him into the shadows.

Inside, the other delegates wait for Zephon. The Dalek Supreme tells the other Daleks to search for him.

Zephon has had his robe removed and been tied up. Steven is revolted by his appearance. Bret wants to get to Chen's ship and escape, but the Doctor has other ideas. "Not yet. Not until we find out exactly what the Daleks are planning," he says. He plans to attend the conference disguised as Zephon. The others try to dissuade him, but he insists. He hands Bret the tape he found in the jungle made by Marc Cory and tells him that if he doesn't return, they must all leave for Earth without him. "You're a very brave man," Bret says, impressed.

The Doctor, disguised in Zephon's robes, enters the chamber and takes his place at the table. "I have important news," the Dalek Supreme states, "the Time Destructor is now completed. It only requires the core to be fitted." The delegates signal their delight. Mavic Chen presents the core: it is a small container of taranium, the rarest mineral in the universe. "Without this, the Time Destructor is useless!" Chen declares.

Bret, Steven, and Katarina invade Chen's spaceship. They apprehend Chen's two assistants, tie them up, and leave them hidden outside in the landing area. They wait for the Doctor.



Outside, Zephon has awoken and struggles to his feet. He is still bound but manages to activate an alarm. The delegates panic as the sound of the alarm fills the chamber. The Doctor uses the confusion to steal the taranium core. Zephon appears. "Stop the creature!" he yells. The Doctor races outside.

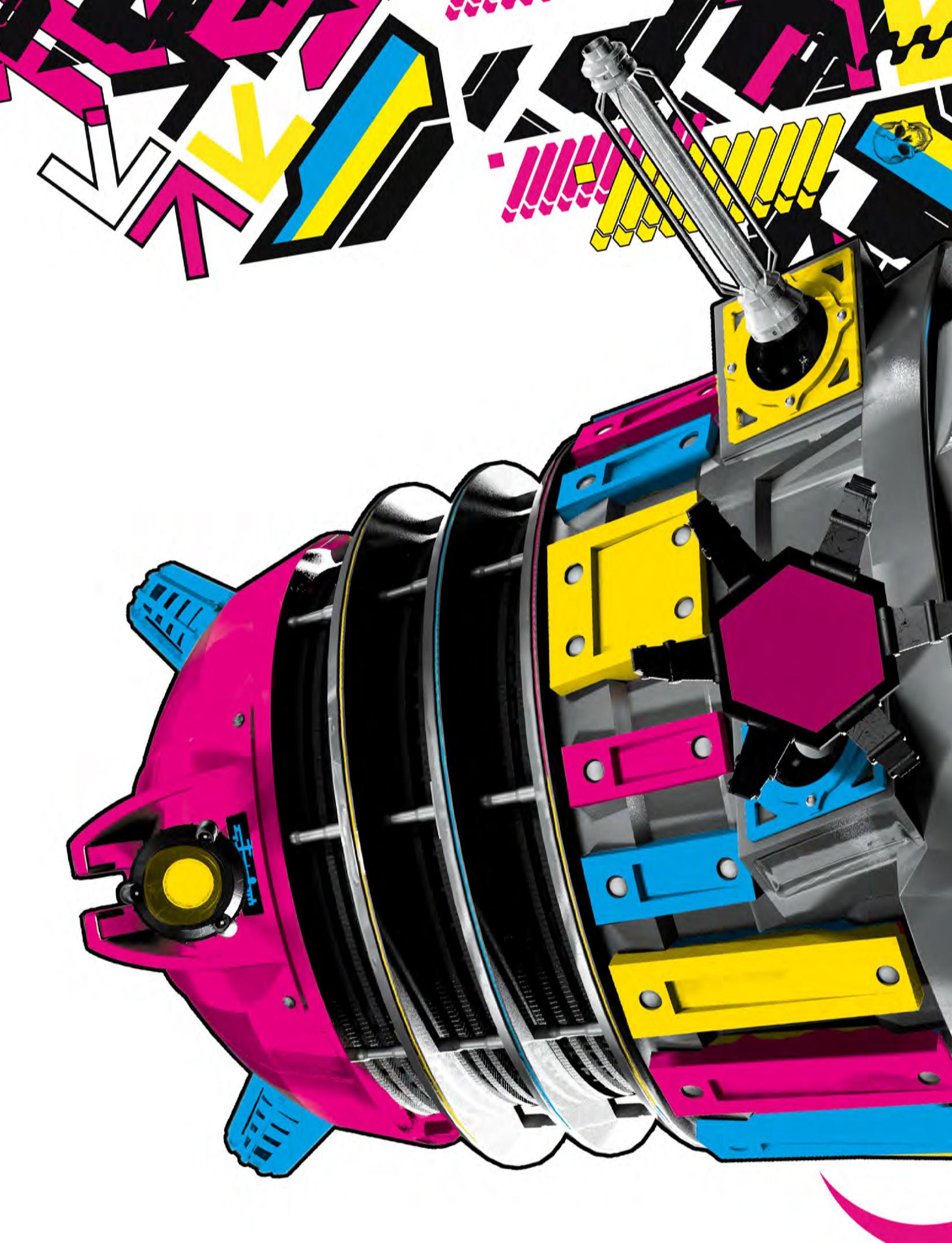
"We've got to go!" Bret says. Steven tries to stop him from taking off and leaving the Doctor behind. "He's been caught!" Bret yells. Bret throws Steven aside and activates the flight controls. "We're going without him!" he says...



EARLY OUTLINE

Several changes were made from Terry Nation's original script. In the early draft, the episode opened with the Doctor being knocked out by Bret Vyon, who then carried him to a clearing where Katerina and Steven were hiding. This draft also included a speech by Mavic Chen where he spoke of snuffing out mankind's history and starting again. An extra scene had the Dalek Supreme revealing that the attack on Earth would begin in one month's time. Nation suggested using newsreel film of Australian bush fires to illustrate the destruction of Kembel's jungle. Another draft scene had Bret knocking Steven out with a punch to the jaw aboard Chen's ship. Many of these ideas were either altered or omitted in the final film.





THE DALEK

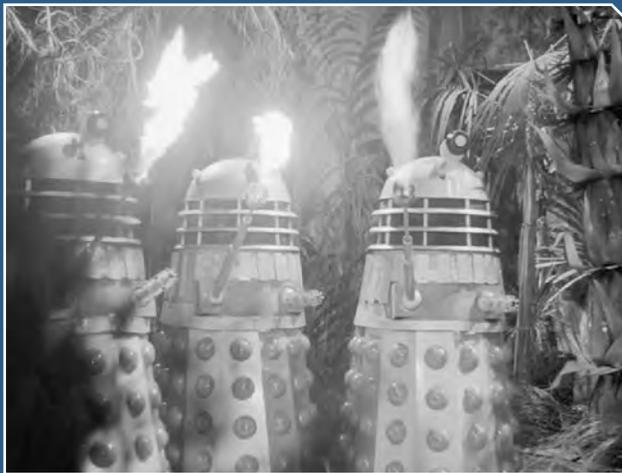
THE

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FLAMETHROWER DALEK

As the Daleks began to spread across the stars in their early history, the Emperor Dalek realised that they would have to adapt to many strange new environments.

The Daleks were hardy creatures; they had been designed to survive on Skaro, a world covered in toxic waste and radioactive clouds. Even so, the challenges they found on other planets were often beyond their capabilities. The Daleks encountered worlds with intense gravitational fields that could crush them into dots. There were planets with extreme temperatures that would melt even the strongest Dalek casings, and others that would freeze them solid. These worlds were ignored by the Daleks, even if they possessed strategic value or mineral wealth.



The more habitable worlds were usually nothing like Skaro. Instead of the barren wastelands they were familiar with, the Daleks discovered many planets filled with life in every imaginable form, both flora and fauna. The most difficult form of environment that the Daleks faced was worlds containing dense jungles. Areas with large amounts of rainfall, swarms of insects, and rough terrain caused major problems for the Daleks' mobility and functionality. The Daleks had been designed to operate in arid locations and were ill-prepared to face heavy atmospheres filled with moisture.



Their circulatory recycling systems became clogged and damaged. Tiny insects penetrated the electrostatic screens that circled the neck of each Dalek. Attracted by the heat of the Daleks' internal generators, the insects laid eggs inside them. Many Daleks were destroyed when thousands of insects hatched and chewed through their internal mechanisms.

The Daleks' mobiliser unit was originally a large sphere at its base. It was augmented by pressurised air jets that enabled Daleks to rise above the ground for short distances when encountering uneven terrain. However, when faced with swampland, dense grasses, and

massive tree roots, the mobiliser units soon proved inadequate. Daleks would find themselves immobile and stranded. Some even sank completely into the ground, leaving no trace.

The response was an extensive redesign of the Daleks' internal systems while leaving their outer casings almost completely unchanged. The

Daleks have rarely altered their outward appearance in any major way, due to their ideology: they consider themselves perfect beings without any need for improvement. One of the demonstrations of their 'purity' is their consistency of appearance through the centuries. The Daleks understand on a rational level that all technology can become more advanced and more efficient, but on a psychological level they deny this.

The Daleks' electrostatic screens were equipped with a low-level energy field that killed any insects attempting to penetrate it. Their recycling systems had micro-filters attached that protected them from any impurities in the air. The mobilisers were replaced with a string of anti-gravity condensers built into the rim of the skirt section – these allowed them to hover over soft soil without making any contact with it.

The Daleks were now capable of traversing jungles with relative ease, but the Emperor found itself disturbed by this development. It decided that Daleks adapting themselves in response to new environments ran counter to their primary belief system. From the Daleks' perspective, alien worlds were something to be tamed, controlled, and, if necessary, destroyed. Daleks were programmed at a genetic level to hate all creatures unlike themselves – the resulting effect was that they hated the universe itself. A better response, the Emperor decided, would be for the Daleks to transform the worlds, not themselves.

Daleks assigned to jungle missions are equipped with weaponry that can destroy any form of plant life they encounter. Their manipulator arms are



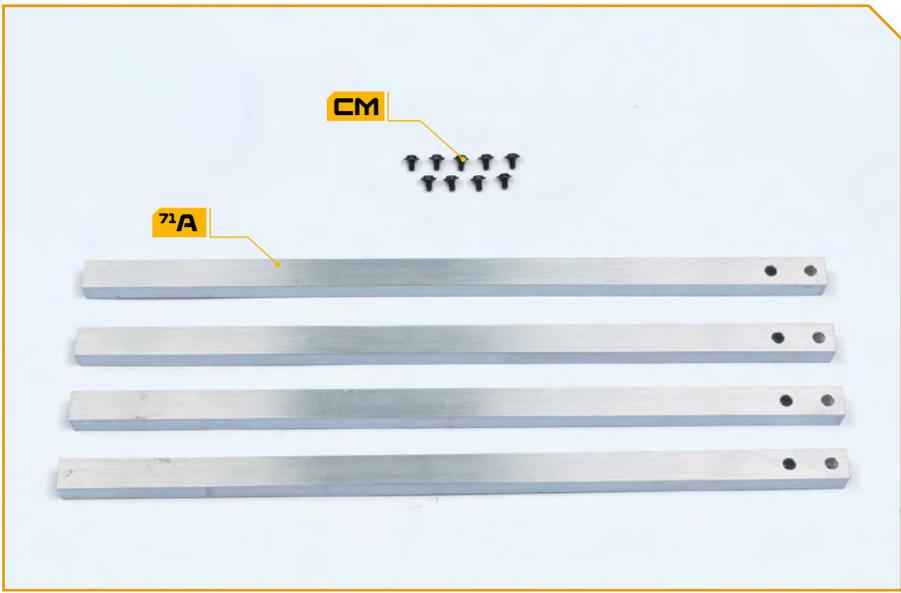
often replaced with pyro-flame emitters. These were employed for the destruction of the jungle on Kembel during the Daleks' alliance with Mavic Chen and the Outer Galaxy delegates. Pyro-flames are created with zenotrane, a gas native to Skaro that can be compressed into a highly flammable liquid. Flamethrower Daleks have canisters of zenotrane installed within their casings. The zenotrane can be mixed with a variety of other gases, such as oxygen, nitrogen, and hydrogen, to become an extremely combustible source of energy once ignited. The zenotrane travels up the Dalek's manipulator arm and is ignited by a small release burner at the tip. The blast range of the pyro-flames is normally only half a metre, but it can be extended to five metres if necessary. The heat generated can reach as high as 3,500 degrees Celsius. It is an effective method of destroying plant life but is a clumsy weapon when used against humanoids.

Other forms of defoliants have also been developed by the Daleks, including degeneration pods. Each pod contains thousands of tiny spores that have been genetically modified to spread disease amongst most forms of plant life. The pods are fired by a modified manipulator arm. They break apart, and the spores are spread through the air. Once the pods are deployed, plants begin to decay and die in a matter of minutes.



BASE SECTION

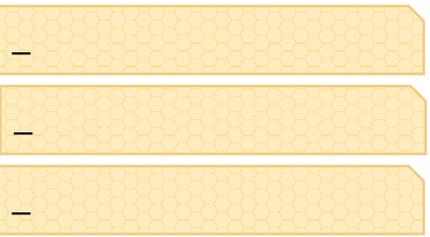
INTERNAL SUPPORT STRUCTURE



COMPONENTS OF ISSUE 71

71A UPRIGHT STRUTS (X 4)

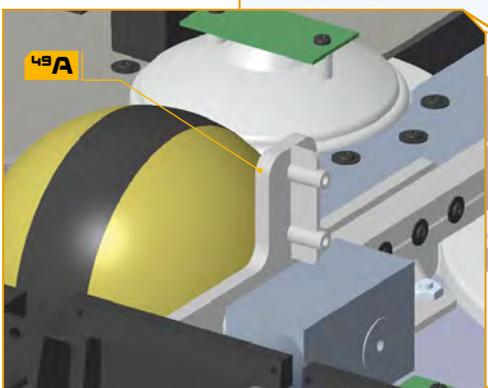
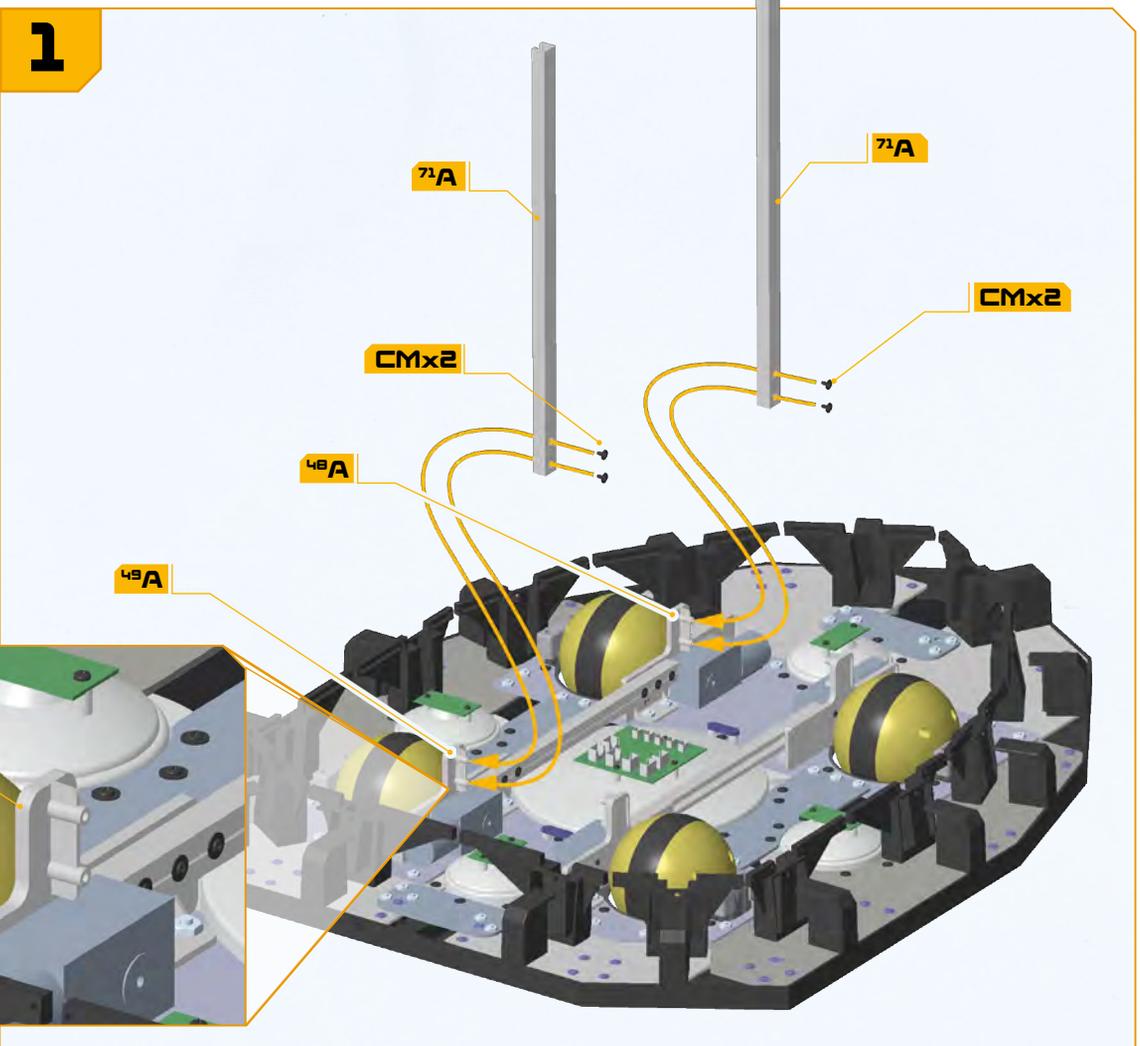
CM NINE 2.3 X 4MM PWM SCREWS (1 spare)

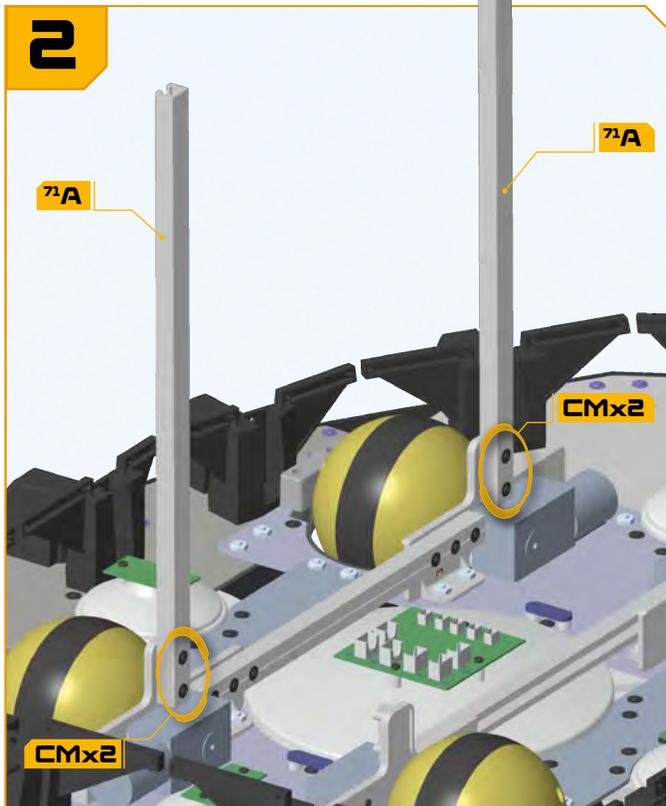


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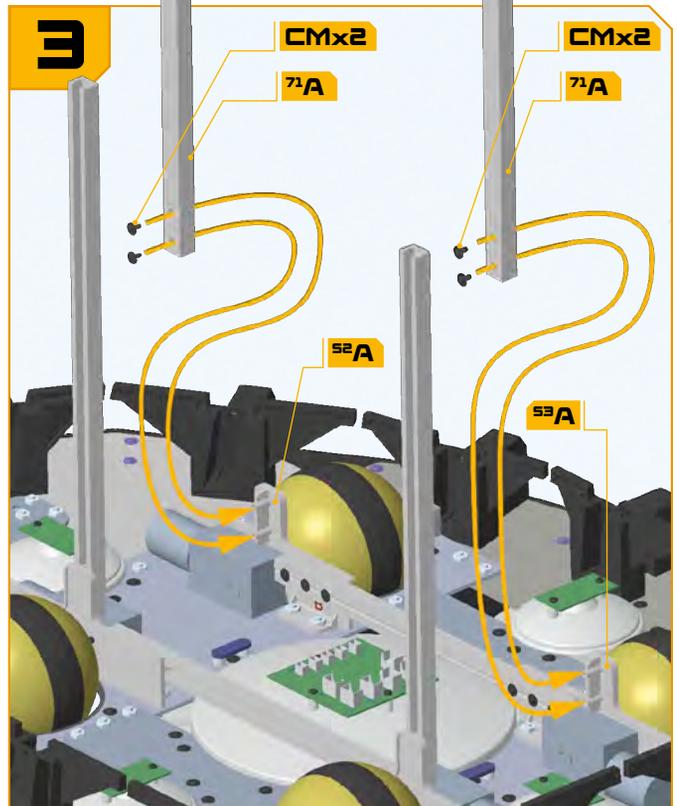
For clarity, cables are not shown in the illustrations in this issue.

#71-01
Place the base assembly on your work surface and identify the fixing points for the first two uprights **71A** on the left-hand side of the base: the channels in the uprights fit over tabs with screw sockets on parts **49A** (inset) and **48A**. Fix each upright in place with two **CM** screws. You may find it helpful to use a short screwdriver so that the screws align correctly.





#71-02
This shows the uprights **71A** in place, with the **CM** screws circled.

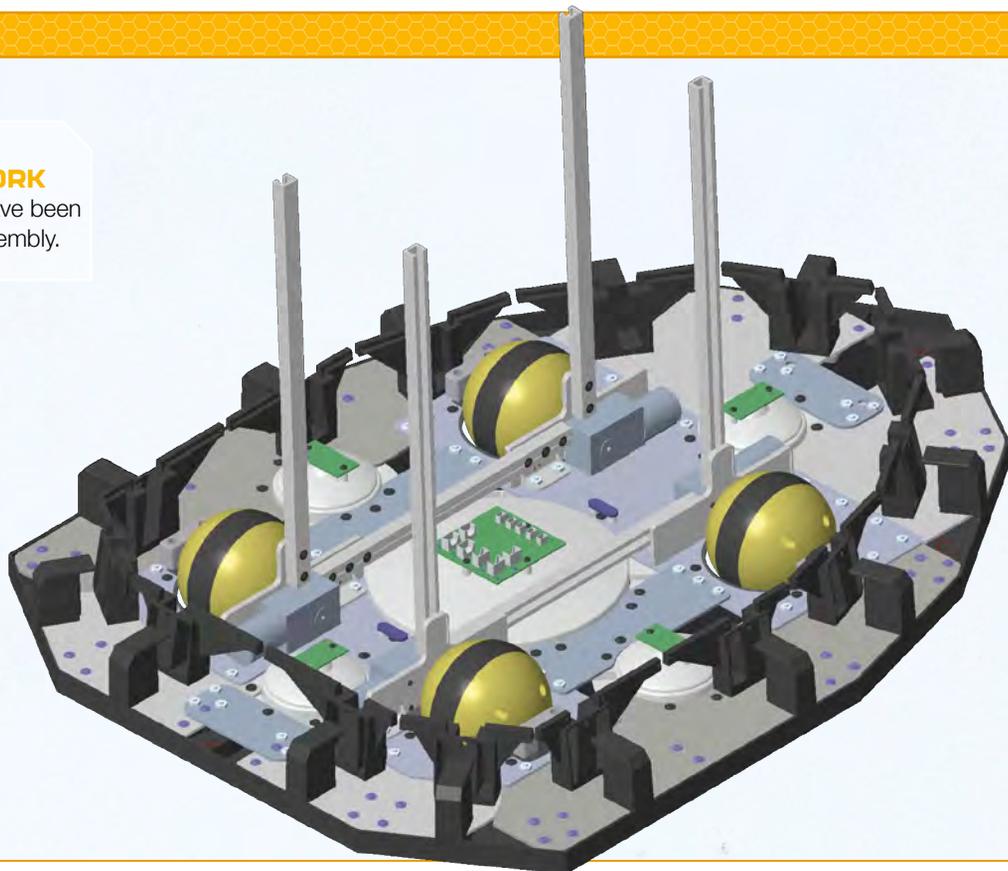


#71-03
Similarly, identify the fixing points for the second two uprights **71A** on the right-hand side of the base: the channels in the uprights fit over tabs with screw sockets on parts **52A** and **53A**. Fix each upright in place with two **CM** screws.

COMPLETED WORK

#071 COMPLETED WORK

Four upright struts have been fitted to the base assembly.



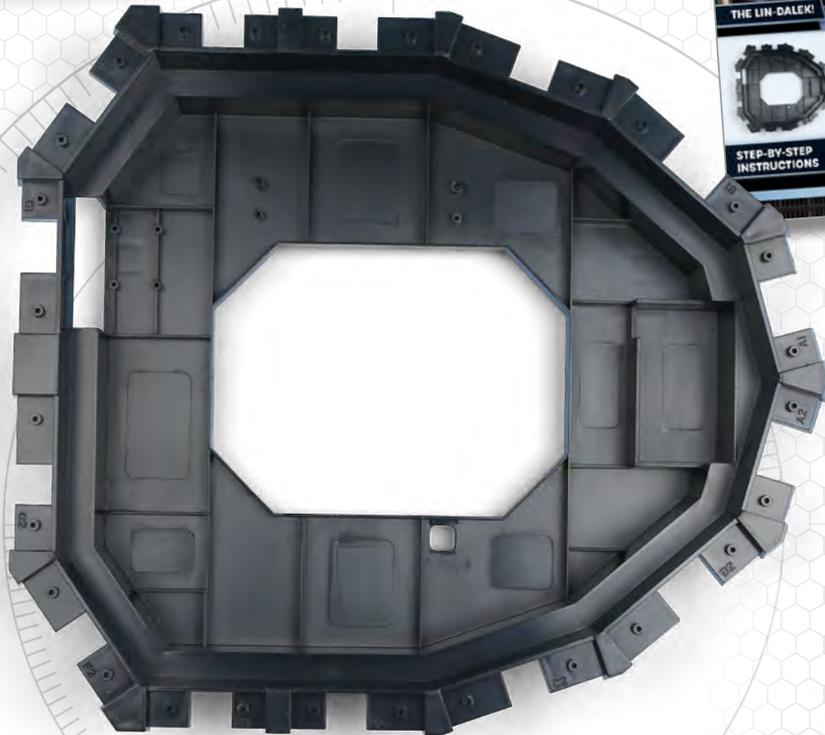
THE DALEK



COMING IN
ISSUE 72

BUILD PART 72

The next issue will provide the chest support, which can then be fitted to the four uprights that were supplied with issue 71.



ANATOMY OF A DALEK



The resourceful Scout Dalek can survive out of its casing and is capable of independent action when operating in hostile situations.

ADVENTURES IN TIME AND SPACE



The Doctor is forced by the Daleks to subject the unwitting Jamie to a series of tests in *The Evil of the Daleks* – Part 3.

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