

THE DALEK

**BUILD
THE ICONIC
BBC**



MONSTER



**THE DALEK
DRONE**



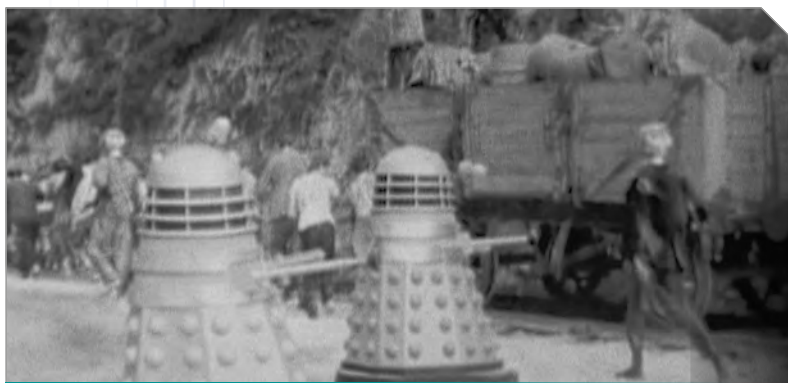
**STEP-BY-STEP
INSTRUCTIONS**

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DALEK

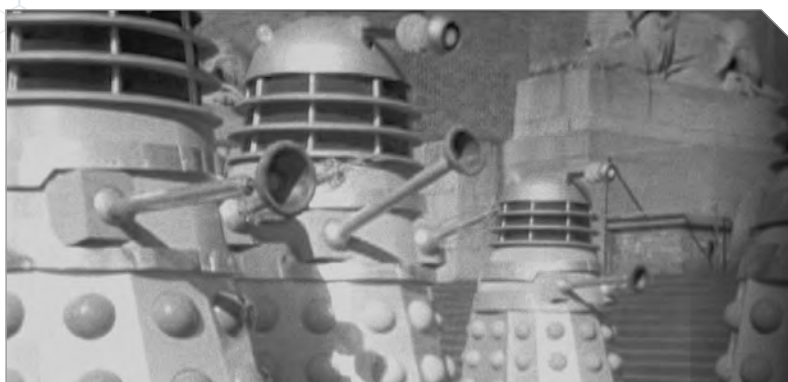
ISSUE 80



ADVENTURES IN TIME AND SPACE: THE END OF TOMORROW

3

The key to the Dalek plan lies in their mine in Bedfordshire.



ANATOMY OF A DALEK: DALEK DRONE

6

The ruthless Dalek Drone is the footsoldier of the Dalek army.



STEP-BY-STEP BUILD: PART 80

8

Three internal cables, cable ties, a cotton glove, and screws.

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THE END OF TOMORROW

The Doctor and his companions head for the Dalek mine in Bedfordshire.

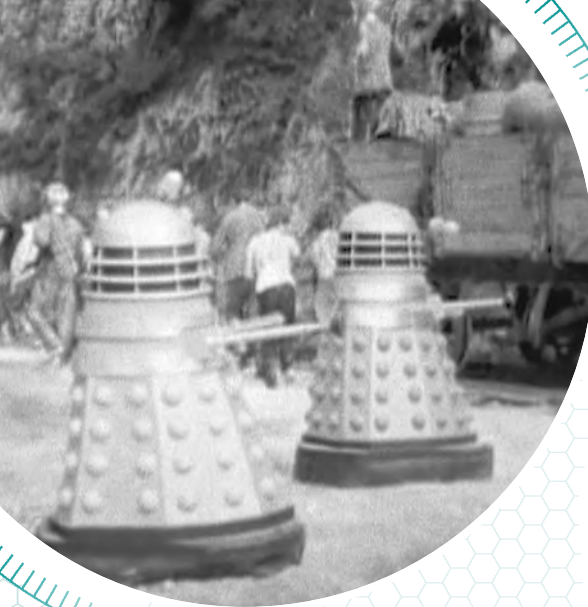
**Season 2 Episode 7
First Broadcast:
12 December 1964**

In a London alleyway, two Robomen carry a large device to an area near the Doctor, Susan, and David. "It's one of the firebombs!" David exclaims. Suddenly, the Doctor passes out, leaving David and Susan to deal with the bomb. David tries to pry open the casing with a screwdriver, but it proves useless. He has another idea: "Dortmun's bombs – the acid!" David uses the acid to burn through the casing and pulls out the detonator just in time.

David suggests that he and Susan leave the Doctor for a while and find a route out of the city. Susan at first refuses to leave her grandfather, but David convinces her. "The Daleks think this area is in flames, so he'll be safe for an hour," he says. "It's the only way."

Inside the transport museum, Barbara and Jenny prepare a large truck for their journey. The truck is an antique to Jenny, but Barbara knows how to operate it. "You realise we won't get far in this," Jenny says. Barbara understands the risk but feels it is absolutely vital that they make for Bedfordshire.

In Bedfordshire, Ian and Larry avoid a Dalek guard. They observe more Daleks directing a line of exhausted human slaves, who are pulling a large mining cart on rails into a tunnel. The entire region



Roboman enters with his machine gun but Ian knocks him out. Wells says that he is planning to meet a black marketeer called Ashton that evening. Ian wants to meet Ashton too, thinking that he may be able to help him get back to London and find his friends. "I suppose you know they destroyed it," Wells says. Ian goes silent.

Meanwhile, Barbara and Jenny are ready to leave. Barbara has remembered Dortmun's notes. Jenny is angry at Dortmun, believing that he threw his life away for nothing. "If Dortmun hadn't thrown his life away, we would all be dead," Barbara replies, irritated. "He knew exactly what he was doing. He sacrificed himself so that you and I would have a chance." Barbara takes the wheel of the truck and starts it up. They head off.

Susan and David explore the sewers. Susan picks up a bullet cartridge and wonders if they could find help down here. "Not all human beings are automatically allies," David warns. "There are people who've killed for a few scraps of food." Suddenly, Susan cries out as a figure armed with a gun emerges from the shadows...

Barbara and Jenny are on the road to Bedfordshire, but they have been spotted by a Dalek. "They're sure to radio ahead," Barbara says. Sure enough, a group of Daleks is waiting for them on the road. Barbara steps on the accelerator. The Daleks fire, but it's too late – the truck barrels straight through them, smashing one Dalek to pieces. Jenny laughs with delight. "I rather enjoyed that," Barbara says, smiling.



A Dalek saucer craft receives a report. "Rebels travelling in motorised vehicle," a Dalek announces. "Have attacked and passed Dalek outer London cordon." The saucer crew is immediately ordered to intercept and destroy the rebels.

Jenny sees the saucer approaching. Barbara stops the truck and they both jump out just in time. The saucer fires at the vehicle, and it explodes.

Meanwhile, Susan and David are relieved to be reunited with the resistance leader, Tyler. Susan shows him the cartridge she found. "I wasn't shooting at a man," Tyler explains. "These sewers are full of alligators." He walks off.

has been turned into a massive mine. The pair encounter a worker named Wells, who assumes they have escaped from the mines. When a Roboman questions them, Wells quickly covers for Ian and Larry. He tells them that he will take them back to work, but the Roboman demands that they follow him instead. He picks up a club and strikes Wells. "In future, refer all decisions to your masters," the Roboman says coldly.

Ian and Larry defy the Roboman and help Wells up. They take him into a hut. The



FRIEND OF THE STAR



Director Richard Martin had a good relationship with *Doctor Who*'s star: "Billy Hartnell I had a great time for, because although he was not an easy man, and he was not a man at ease, he had enormous drive. He was a fighter, one of those people who threw his fists up first of all. He gave a memorable

performance in *This Sporting Life* and the first thing I said to him was, 'Mr Hartnell, your performance in *This Sporting Life* will stay with me as long as I remain on this globe.' He blustered, 'What, sorry? Oh yes, well, I kind of got inside that man...' and we were away. He'd tell these wonderfully funny stories of how he learnt his trade in the quickies [low-budget British films] before the war."

SICK LEAVE





Susan is upset by Tyler's abrupt manner. "He's afraid to make friends," David says. "He's known too much killing." Susan says that she hopes she never ends up pretending not to care. "One day, this'll all be over," David says. "It'll mean a new start." Susan brightens at the thought. "Rebuilding a planet from the very beginning! It's a wonderful idea!" David suggests that Susan could be part of that challenge, and Susan surprises herself by answering, "Yes..."

Night falls. Barbara and Jenny pause on their long walk. They are now between Edgware and Stanmore. Jenny asks Barbara what she will do if she doesn't find her friends in Bedfordshire. "Well, I'll think about that when we get there,"



Barbara replies, shaken by the thought. A strange creature called the Slyther roams the woods near the Dalek mine. Ian and Larry spot it moving in the bushes. They quickly enter the hut, only to find themselves held at gunpoint by Ashton. "Right, you can just turn around and go out again," Ashton says. When Larry points out that there is a monster outside, Ashton replies, "It didn't see you come in, it needn't see you go out." Ian asks Ashton for help to get out of the camp and go to London. Ashton demands gold or precious metals in return for helping Ian. When Ian says he has none, a tense standoff develops between the men.

Wells arrives and gives Ashton some jewellery in exchange for food for the miners. Ian asks about the Slyther. "The Black Dalek – he's the commandant of the camp – regards it as a sort of pet," Wells explains. The Slyther roams the mining area at night, looking for food, and has been known to eat people.

Susan and David lose sight of Tyler in the dark sewer tunnels. They climb up a ladder into a new tunnel. Another ladder collapses when Susan tries to climb down, leaving her dangling over a sewer channel with an alligator below. Tyler appears from a hatch above and shoots at the alligator. Susan is rescued by David.

Ian, Larry, Ashton, and Wells finish their simple meal. Ashton tells Wells that he is a fool for staying in the mining camp. "I'll get out in my own good time," Wells replies. They hear the roar of the Slyther, but it seems to pass the hut. The men relax.



Suddenly, the Slyther comes crashing through a wall. It is a horrific creature with black, leathery skin. Its limbs are misshapen and its mouth is wide. Ashton is nearest to the Slyther – he fires at it with no effect, and the monster consumes him. Ian, Larry, and Wells race outside. Wells runs in a different direction to the other men. Ian and Larry find their escape halted by a deep mineshaft in the ground. They try to go back, but the Slyther has cut off their retreat. "It's coming straight for us!" a terrified Larry shouts. The Slyther roars...



William Hartnell was injured during the rehearsals of the story's third episode, *Day of Reckoning*. "He was dropped by poor Richard McNeff," director Richard Martin recalled. "That was my fault. I thought Richard was very strong. We had the big Riverside studio taken up with the flying saucer which you could shoot inside as well as out. The outside had a ramp, and Richard had to run down the ramp carrying Bill. There was that awful thing of running and hitting the bottom; Richard's leg buckled, and he dropped Bill onto the edge of the steering circle of a camera, I think. Richard kept hold of him so it wasn't a bad drop." Hartnell carried on with the recording but needed several days' bed rest afterwards. He was given a week off to recover, and did not appear in *The End of Tomorrow*. The script was rewritten and some of the Doctor's dialogue was given to David and Susan. Edmund Warwick (who had been in *The Keys of Marinus*) doubled for Hartnell in the opening scene of the episode.

ANN DAVIES



Terry Nation's draft script was titled *The Abyss* and differed in many ways from the broadcast episode. Ashton was another prisoner, not a black marketeer. He warned Ian about the Slyther, which he described as a "huge black jellyfish." Barbara and Saida – played by Ann Davies, the intended replacement character for

Susan – smashed through the Dalek road cordon in an old bus. David warned the Doctor and Susan that the sewers were now inhabited by scavengers who were "no longer people." The scavenger's description reads: 'The hair is matted and shoulder length, and the face is totally white... [the eyes] are larger than human eyes... canine teeth project over the lower lip.'

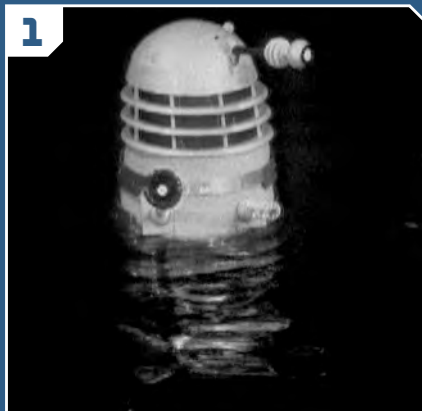
DALEK DRONE

By the 22nd century the Daleks were spreading across the universe, colonising planets, mining asteroids, and invading inhabited worlds.

A Dalek hierarchy was beginning to form, with Daleks being genetically designed for specialist tasks. There were now Dalek scientists, Dalek pilots, and Dalek strategists. But by far the largest group, numbering in their hundreds of millions, were the Dalek Drones.

Dalek Drones were the soldiers of the Dalek Empire. It was their task to invade worlds, destroy their infrastructures, exterminate enemy forces, and police any surviving populations. Mentally less sophisticated than the other Dalek castes, they were nonetheless fanatically loyal to the Dalek cause and could be highly resourceful in combat situations. The Drones had little sense of self-preservation which was both an asset and sometimes a liability for the Dalek commanders: while the Drones were fearless in battle, they also rarely retreated, even when faced with superior firepower. As a result, Dalek losses could be extremely high on worlds where the natives wielded advanced weaponry.



1

The Drones of the 22nd century spent lengthy periods of time operating within alien atmospheres and required adaptations to ensure their functionality was maintained. They were equipped with atmospheric compensators that filtered out foreign gases. The Drones carried supplies of the nutrients needed for the Dalek mutants' survival. The Dalek shell became a fully self-sustaining survival mechanism. The Drones could operate for brief periods in the hard vacuum of space, in areas of extreme temperatures, and even underwater. This proved useful when the suicides of malfunctioning Robomen began to increase, with many choosing to drown themselves. Drones were sent beneath London's River Thames [1] and other large bodies of water to retrieve the Robomen's bodies for study.

2

On their home planet, Skaro, the Daleks drew their energy from static electricity collected through the floors of their city via their base units. This limitation had to be overcome when the Daleks ventured to other worlds. Batteries were developed but they proved inefficient and difficult to maintain for lengthy periods. The Daleks consumed enormous amounts of energy in combat and would often find themselves drained of both mobility and firepower in the middle of a battle, making defeat an almost inevitable outcome.

The large-scale transmission of energy without the use of cables or wires was a key breakthrough. The Daleks' mastery of electromagnetic induction enabled them to convert electrical energy into concentrated pulses of microwave radiation that could be directed with pinpoint accuracy. The Daleks' internal magno-translator units then converted these pulses back into electricity. The radiation pulses were collected by receiver dishes positioned on the Daleks' backs [2]. A constant flow of energy was transmitted to Dalek Drones from two sources: the numerous saucer craft deployed on Earth [3], and a network of orbiting power satellites established around the planet just before the invasion began. With these systems in place, the Daleks now had a near-limitless supply of energy.

While the receiver dishes were vulnerable to attack, human resistance fighters soon realised that destroying them did not leave the Daleks without power. Electromagnetic batteries had been installed inside the Dalek casings, capable of keeping a Drone powered for several hours before recharging became necessary.

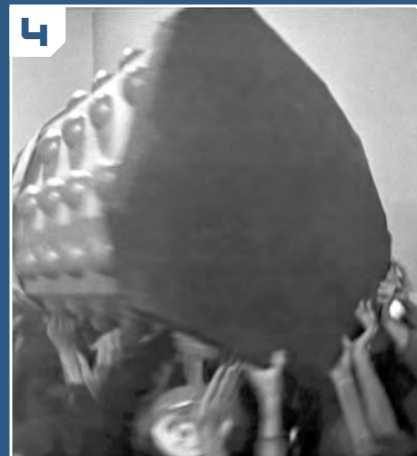
As the Daleks' bases were no longer needed to receive static electricity, they were completely overhauled. The rough terrain the Drones encountered on Earth and other worlds made the internal spheres previously used for mobility impractical. These were replaced with anti-gravity emitters, allowing the Daleks to hover a few millimetres above the ground. This eliminated almost all ground surface friction and enabled the Daleks to travel much faster and with greater stability. Their bases were made much larger to accommodate the new technology, and the undersides were now completely flat [4] for hovering over uneven terrain.

The outer casing of all Drones in this era was composed of Dalekanium, a hyper-dense alloy made from metals native to Skaro. Ten times stronger than steel, yet it weighed only a quarter as much as aluminium. The casing

3

could withstand temperatures of up to 2,000 degrees Celsius and survive concentrated fire from high-calibre ballistic weapons. However, heavy projectile weapons, such as bazooka rounds and tank shells, could penetrate a Dalek's armour at close range.

The Drone's eye was a wide-angle lens that transmitted images directly to the brain of the Dalek mutant. It could also relay images to Dalek control centres when required. It was one of the few

4

exterior details of a Dalek not composed of Dalekanium, and was the most vulnerable part of the Dalek casing. The row of discs behind the eye were insulator units that protected the eye from cosmic radiation.

The Drone's gun stick was capable of firing a variety of energy beams. It could completely paralyse a human or target individual limbs to immobilise them. The paralysis could be temporary or permanent. A different energy beam could be used to torture humans by enflaming the nerve endings of their bodies. In practice, however, the gun stick was used to instantly kill its targets.

BASE SECTION

INSTALLATION OF INTERNAL WIRING



COMPONENTS OF ISSUE 80

- 80A** CABLE FOR BASE MOTOR (labelled ZM)
- 80B** CABLE FOR BASE MOTOR (labelled YM)
- 80C** CABLE FOR BASE LIGHTS (labelled DL)
- 80D** TWO CABLE TIES (1 spare)
- 80E** WHITE COTTON GLOVE
- QP** SIX PACKETS OF TEN 2 X 5MM PB SCREWS (60 screws, four spare)
- NP** THREE PACKETS OF TEN 1.2 X 4MM KB SCREWS (30 screws, two spare)

NOTE REGARDING SCREWS

The screws are used in a later issue, so leave them in their packets until they are needed.

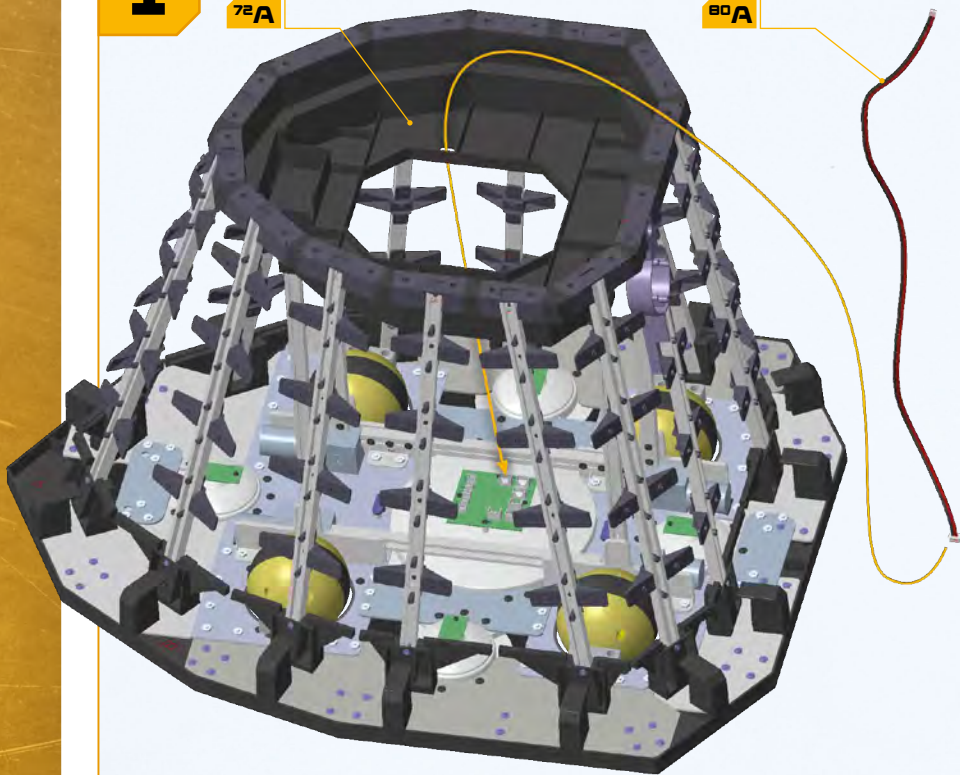
NOTE REGARDING CABLES

For clarity, in the illustrations we only show the cables that are being fitted in this issue.

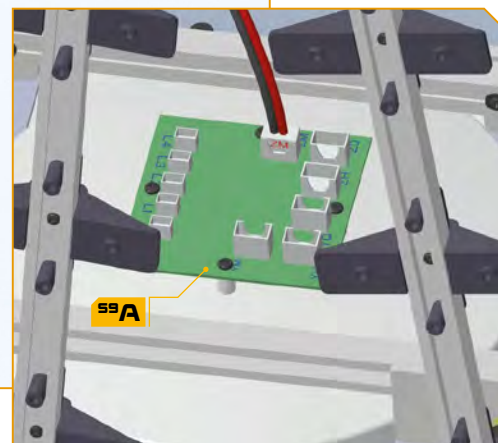
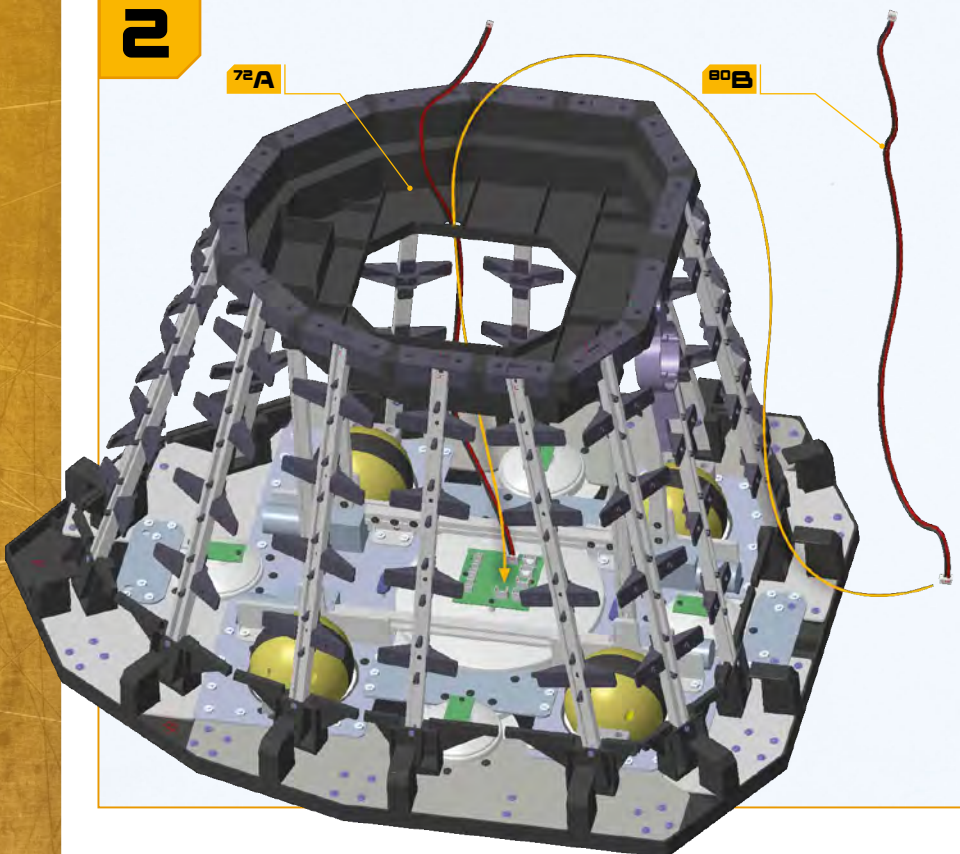
TAKE CARE

The glove is supplied for use in subsequent issues when handling the thin metal parts that form the skirt. It should be worn on your dominant hand (the right hand if you are right-handed, left hand if you are left-handed).

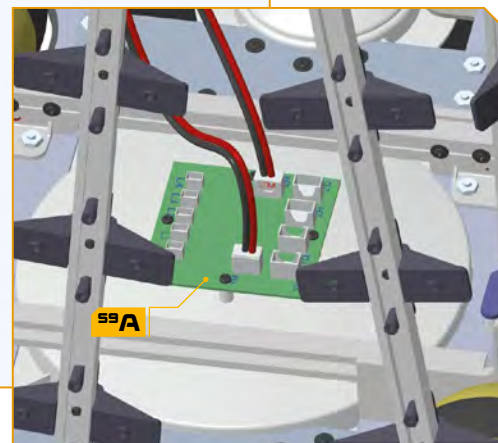


1**72A****80A****#80-01**

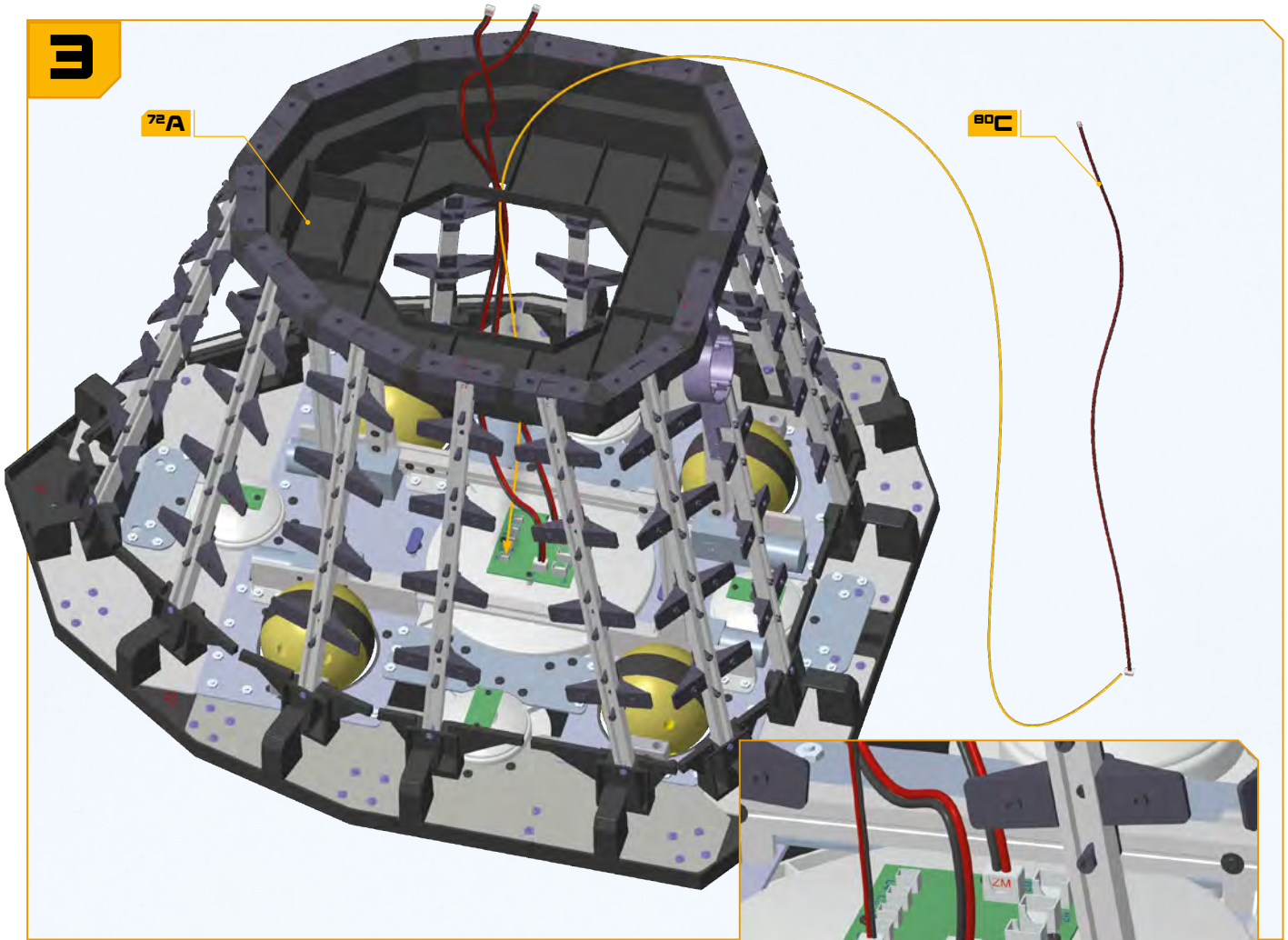
Take the cable **80A** and run one of the connectors (marked ZM) through the square hole in the chest support **72A**. Plug the connector into the socket marked ZM on the circuit board **59A** (inset).

**2****72A****80B****#80-02**

Similarly, take the cable **80B** and run one of the connectors marked YM through the square hole in part **72A**. Plug the connector into the socket marked YM on the circuit board **59A** (inset).



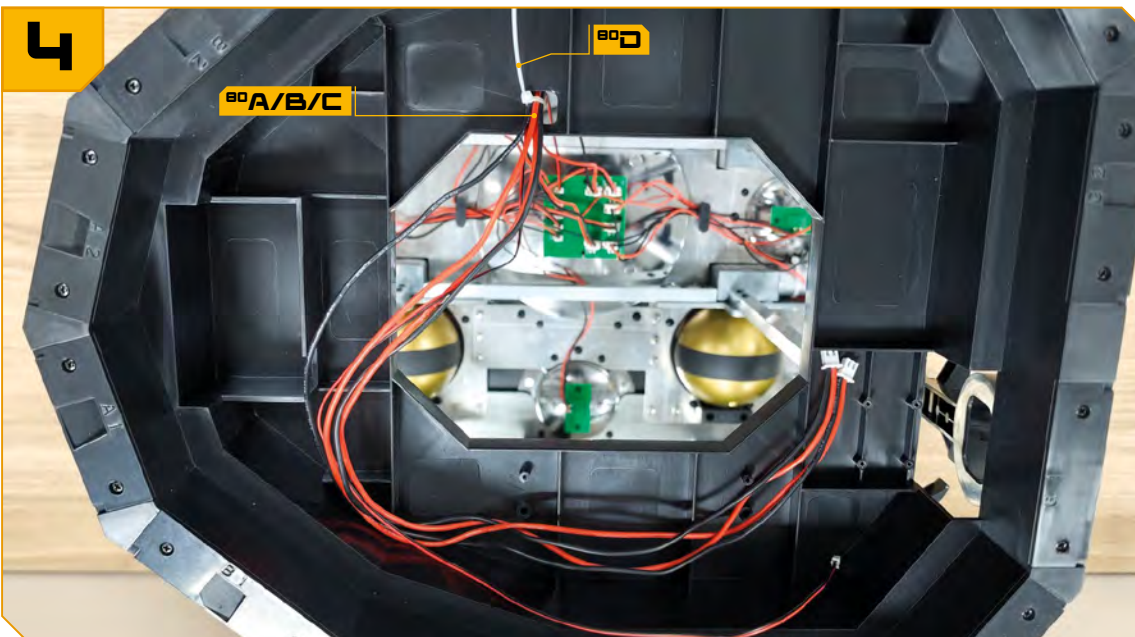
3



#80-03

Take the cable **80C** and run one of the connectors marked DL through the square hole in part **72A**. Plug the connector into the free socket, marked DL, in the circuit board **59A**.

4



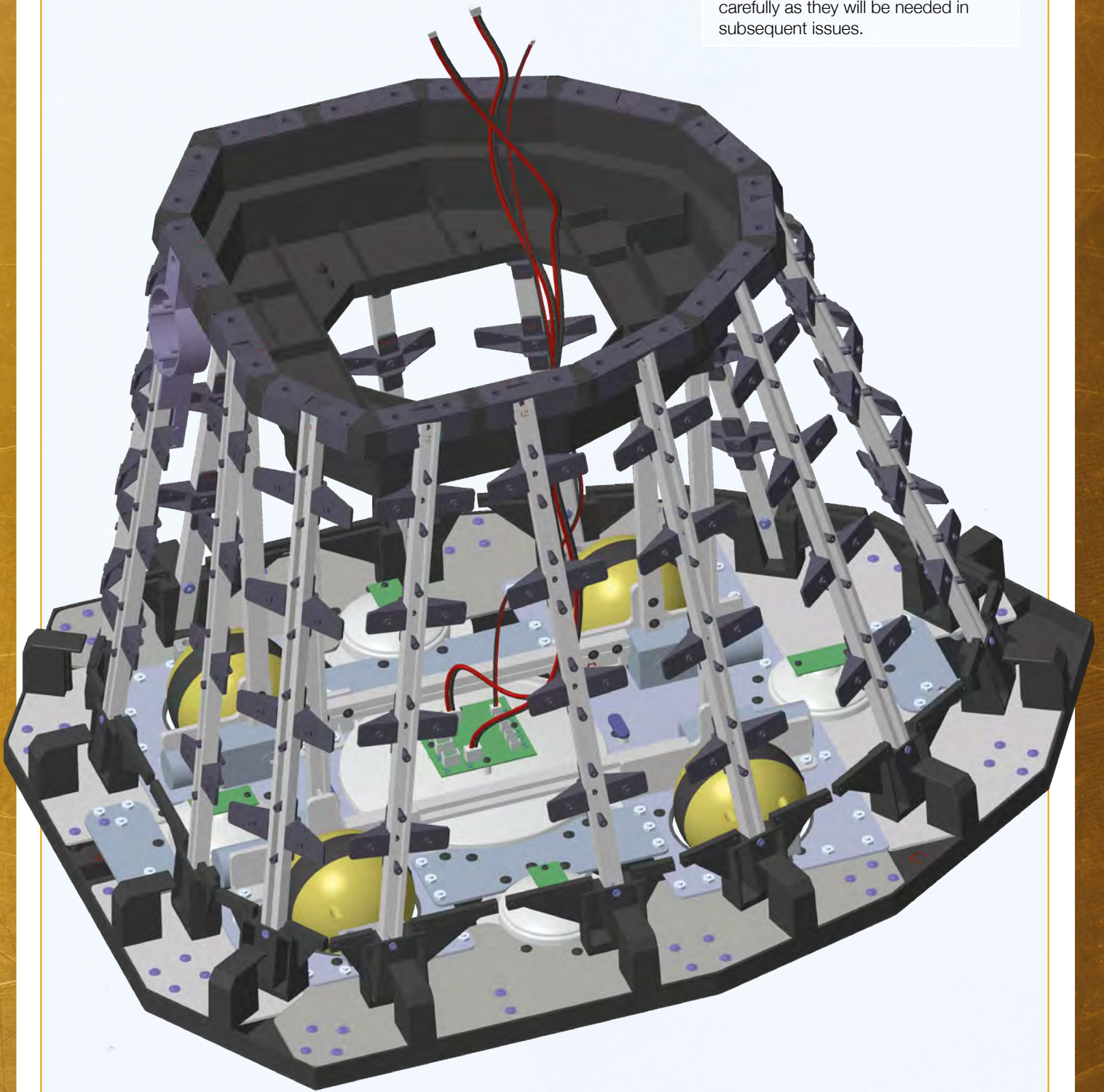
#80-04

Wrap the cable tie **80D** around the cables **80A**, **80B** and **80C** just above the square hole in part **72A**. Thread the pointed end of the tie through the hole in the tie and draw it up so that the cables are held together. Do not over-tighten. Arrange the cables around the opening in the chest support **72A**, as shown.

COMPLETED WORK

#OBO COMPLETED WORK

Three cables have been fitted to the model. Store the screws carefully as they will be needed in subsequent issues.



THE DALEK



COMING IN
ISSUE 81

BUILD PART 81

Issue 81 begins to focus on the outer casing of the model base and includes two skirt panels. You will need to use some of the screws and the glove supplied with issue 80.



ANATOMY OF A DALEK



On the planet Necros, Davros uses the Tranquil Repose organisation as a front to create a new race of Daleks.

ADVENTURES IN TIME AND SPACE



In *Time Lord Victorious: Daleks!*, the Daleks encounter an extra-dimensional alien known as the Entity.