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9

DALEK

ISSUE 64



ADVENTURES IN TIME AND SPACE: WORLD'S END

3

The TARDIS lands in a devastated London in the 22nd century.



THE TIME VORTEX: SERVANTS OF THE DALEKS - ROBOMEN

6

The Daleks converted humans into their obedient slaves.



STEP-BY-STEP BUILD: PART 64

8

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THE DALEK INVASION OF EARTH – PART 1

WORLD'S END



As the humans fight amongst themselves, the Daleks prepare to take over the colony.

Season 2 Episode 4

First Broadcast:

21 November 1964

A man wearing a large silver helmet and collar staggers along the bank of the River Thames in London. He is dressed in ragged worker's clothes and has a row of strange symbols on his shirt. He passes



a large poster placed beneath a bridge that reads, "Emergency regulations: It is forbidden to dump bodies into the river." The man suddenly rips off the collar and throws it aside, giving out a strangled cry as he does so. He walks slowly down to the river's edge, his expression an odd mixture of pain and relief. He enters the water with his head down and floats away, dead.





Soon after, the TARDIS materialises beneath the bridge. Inside, the Doctor circles the console, bothered by something. Ian, Barbara and Susan enter the control room, all hoping that they have arrived in a quiet, pleasant locale. The scanner only shows some water moving. Susan checks the readings and states that it could be Earth outside. Ian and Barbara dare to hope that they have come home at last. "I don't want to boast, but we might be somewhere in London, hmm?" the Doctor says, smiling.



They exit and see the familiar Thameside buildings. Ian and Barbara are overjoyed. Ian calls out but gets no reply. The city is strangely silent. The Doctor, however, is a little more cautious and points out that although they are undoubtedly in London, they do not know what time period it is. The Doctor is concerned by the decay of their surroundings, noting how decrepit the bridge above them has become, but Ian and Barbara refuse to abandon their hope that this time the TARDIS has brought them home.



Susan tries to climb to a higher position to get a better view of their surroundings but falls, hurting her ankle. Suddenly, disturbed by Susan's climbing efforts, the bridge collapses. The time travellers are fortunate enough to escape the falling debris, but the TARDIS doors are blocked by a girder. With their only safe space now inaccessible, regaining entry to the TARDIS becomes a priority. Ian spies a warehouse and suggests that they look there for an acetylene torch to cut through the girder. The Doctor points out that they've heard no signs of life. "I don't think we're anywhere near your time, the 1960s," he says.



The Doctor and Ian head for the warehouse. It is derelict and apparently empty. Ian sees Battersea Power Station across the river in the distance. "It's lost two chimneys," he observes. The Doctor finds a calendar marked "2164", confirming that they are far from Ian and Barbara's own time of 1963.

Barbara goes to wet her handkerchief in the river so she can bathe Susan's ankle. She sees the large poster warning that bodies should not be dumped in the river and tells Susan that she is sure this isn't her time. Susan is relieved, then, realising Barbara's disappointment, apologises. "Is it selfish to want us all to stay together?" she asks. Barbara returns to the riverside to wet the handkerchief more and sees the dead man floating in the water.



EARLY DRAFT



rugged, intelligent face'. Barbara searches for Susan in a bomb site (Terry Nation's stage directions suggested Ludgate Hill) and sees London deserted (Nation suggested shots from the 1950 thriller *Seven Days to Noon*). The Doctor reasons that the disaster that hit London must have been in the 1970s, as so much of the city still resembles the 1960s. After being captured by the Robomen, the Doctor and Ian are taken to a saucer ship in Trafalgar Square, where four Daleks emerge.

The Dalek Invasion of Earth was initially titled *Return of the Daleks* and then *The Invaders*. In Terry Nation's draft script of the first episode, Susan has a strange intuition about what is outside the ship, which the Doctor dismisses. It is foggy outside the TARDIS, and Ian stumbles over a nearly mummified human body with radiation burns. When Susan climbs the girders, she is startled by an owl and is knocked unconscious by her fall. Ian sees Trafalgar Square from one of the warehouse windows. The office calendar lists the year as 2041. David is called 'David Somheim' in this version and is 'twenty-five years old' with 'a

ON LOCATION

The Dalek Invasion of Earth was the first major location shoot for *Doctor Who*. The location work for *World's End* began on 25 August 1964 near the old Wood Lane tube station. William Hartnell and William Russell shot a sequence showing their characters entering the warehouse, while Carole Ann Ford and Jacqueline Hill recorded the scene where rebels lead Barbara and Susan to safety. Stunt arranger Peter Diamond doubled for Russell in the scene where Ian steps





Disturbed by what she's seen, she runs back to Susan but finds her gone. A man jumps down from above, startling her. "Do you want to get killed?!" he says. He tells her that 'Tyler' has taken Susan. Barbara hears gunshots in the distance. The man tells her to come with him and runs off. Barbara has no choice but to follow him.

In the warehouse, Ian and the Doctor discover the body of a man in a cardboard box. He has the same helmet and collar as the dead man in the Thames. The Doctor examines the helmet: "I think this is an extra ear, ideal for picking up high-frequency radio waves." Ian finds a whip beside the man, and they realise that his cause of death was a dagger in his back. They head back to the river, observed by a young man in hiding.



The Doctor and Ian stop to see a large saucer-shaped aircraft moving through the sky over London.

Barbara follows the man, Susan and Tyler across an overgrown wasteland. They enter a derelict tunnel. Tyler is met by the young man from the warehouse, David Campbell. An older man in a wheelchair, Dortmun, also appears. "They've landed a saucer at the heliport," Tyler says. Dortmun is pleased: "This time we'll be ready for them," he replies. David leaves to look for the Doctor and Ian.



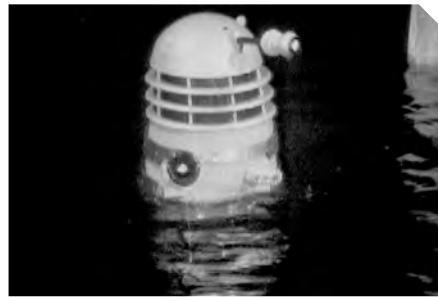
Ian and the Doctor return to the TARDIS' landing site by the bridge. Ian is annoyed to find Susan and Barbara gone. He is eager to leave as soon as possible and says that he doesn't want to know what's happened to London. They find the large poster and wonder if a plague could have struck London.

David spots the Doctor and Ian from a distance, but before he can move towards them, he notices more men in helmets slowly approaching. Their movements are stiff and unnatural, like zombies. The Doctor and Ian are quickly surrounded by the group of strange



figures, all armed with whips. Their faces are expressionless. "What do you want?" Ian asks. The men raise their whips. "Stop!" they all reply together. "When I give the word, turn and dive in the water," Ian whispers to the Doctor.

But something is rising out of the water and it is coming towards them. The two men whirl around to make their escape but they are stopped in their tracks by a horribly familiar sight. A Dalek is approaching them, its eyestalk locking onto them with cold, unyielding intent...



through the warehouse door and ends up hanging onto some girders. The regular cast also spent 27 August on location, this time at Hammersmith Bridge, close to Riverside Studios where the serial would be recorded. This sequence showed the travellers emerging from the TARDIS. Other scenes filmed at the wharf involved the Roboman patrol, including Barbara's point-of-view shot of the dead Roboman floating in the river. This was also played by Peter Diamond,

who was later filmed staggering into the water further up the river at Kew Railway Bridge. This area was used for most of the other riverside location scenes, as it was easier to replicate in the studio. Also filmed on this day was the Dalek emerging from the River Thames at Queen's Wharf for the cliffhanger at the end of the first episode. The Dalek was operated by Robert Jewell, wearing wetsuits, and a cable was attached to the Dalek prop so it could be pulled out of the water from out of shot.

THE ROBOMEN



The Robomen were described slightly differently in Terry Nation's draft script. 'They are dressed in black from head to foot... their movements seem stiff... they have a slightly mechanical quality about them. These are the Robomen... on the temples and forehead are large, badly stitched scars... on the left temple is a disc as big as a half-crown and an inch thick. Two thin wires emerge from it and vanish into the hair.' Even the later camera script is different in some respects to what is seen on screen. Nation describes a Roboman having 'two metal discs on his forehead' with 'attachments of wires in the centre' and carrying 'a small whip, the three thongs of which have lead tips'.

SERVANTS OF THE DALEKS: ROBOMEN

The Daleks spent a considerable amount of time preparing for their invasion of Earth in the 22nd century. Using magnetrons in space, they redirected a meteorite storm and aimed it at the Earth's surface.

The storm lasted for 10 years, devastating huge tracts of land and damaging the infrastructure of the planet. But the Daleks did not remain idle while the bombardment took place. As the years passed, they took hundreds of humans captive, spiriting them away under cover of darkness from remote regions and placing them aboard their saucer ships. While some people suspected that abductions were taking place, nobody could prove it. The Daleks left no trace of their activities.

The Daleks used the kidnapped humans as experimental test subjects. They had two goals: the first was to study human physiology in detail. Their plan for invasion did not involve full-scale warfare; they instead wished to create a viral weapon that would be both highly contagious and deadly enough to wipe out a large percentage of the population. Hundreds of humans died in agony as

the Daleks tested various agents. The end result was a 'plague bomb' that could be deployed all over the world.

The second goal was a study of the human brain. The Daleks were aware that they did not have sufficient numbers to adequately police Earth's population, even after the large-scale loss of life that they were preparing to inflict. They would require servants, and the only available ones were humans themselves. The Robomen were the answer.

The Daleks dissected hundreds of humans, gaining knowledge of the frontal, parietal, temporal and occipital lobes of the brain. The frontal lobe governs the subject's personality and decision-making ability and was the one directly targeted by the robotising procedure. It was effectively destroyed by a series of cuts made by laser beams, allowing the Daleks to wipe out any resistance to their mental control. No sense of individuality was left in the subject, and their personal memories



were completely erased. The frontal lobe is also the part of the brain that governs speech, and consequently the Robomen were only able to speak very slowly.

The Daleks learnt that humans with greater natural intellects adapted more readily to the robotising procedure. They began to provide their captives with tests of logic to ascertain which had higher levels of intelligence. The ones who failed the tests were exterminated.

The Robomen had a limited ability to feel physical pain due to interference with the parietal lobe. They had little understanding of physical stress. They felt no fear and had almost no sense of personal safety. Sleep was unnecessary for Robomen; the fatigue toxins that build up in a normal human body were negated by the robotising process.

The Robomen's equipment came in two pieces: the helmet and the collar. The helmet operated as a form of exo-brain, replacing the higher functions that the Daleks' surgery had removed. The Robomen received their orders through a complex series of radio signals, which they obeyed without question. The helmets also transmitted a signal which allowed the Daleks to track the Robomen's movements.

The collar was the power source for the helmet, charged by an ionic battery. It also monitored the Robomen's nervous systems and maintained their blood supply and autonomic functions with precise control. In addition, it transmitted continuous streams of bio-data back to Dalek control, alerting them to any damage sustained by the Robomen.



The Doctor unwittingly passes the Roboman test.

Despite all of the Daleks' meddling, the human brain remains a highly resilient organ and can repair itself in a number of ways. When parts of a brain are damaged, other areas designed for different functions can switch tasks and can become active. As a result, Robomen often began to develop a sense of individuality once again, albeit in a very limited way. They started to understand on some level that their minds have been imprisoned and would grow frustrated and angry. As their confusion increased, they would attempt to reactivate the sensations that had been blocked by the Daleks and feel once more. Pain is the most extreme physical sensation and the one that they would reach out for. In the final stage, they would always tear the helmets off their heads. Some would smash their heads against walls, throw themselves off buildings, or drown themselves in rivers. They instinctively understood that

death was preferable to the non-life the Daleks had forced upon them.

The Robomen were armed with two weapons: a light machine gun and a whip to deal with individuals. The whip was a cat o' nine tails, a brutal weapon often used in the British navy in the 19th century. The Daleks added their own enhancement to it: each of the whip's nine thongs was coated with a toxin that would burn through cloth and cause an acidic injury to flesh.

The Daleks' demand for total obedience from the Robomen proved to be their undoing. Having occupied the Dalek control centre, Barbara Wright and the Doctor ordered the Robomen to turn on the Daleks, and they did so immediately. The Robomen had been a potent symbol of the Daleks' power on Earth, but in the end, they were a crucial part of humanity's resistance.



The Doctor and Ian in the hands of the Robomen.



The Robomen are the Daleks' footsoldiers.

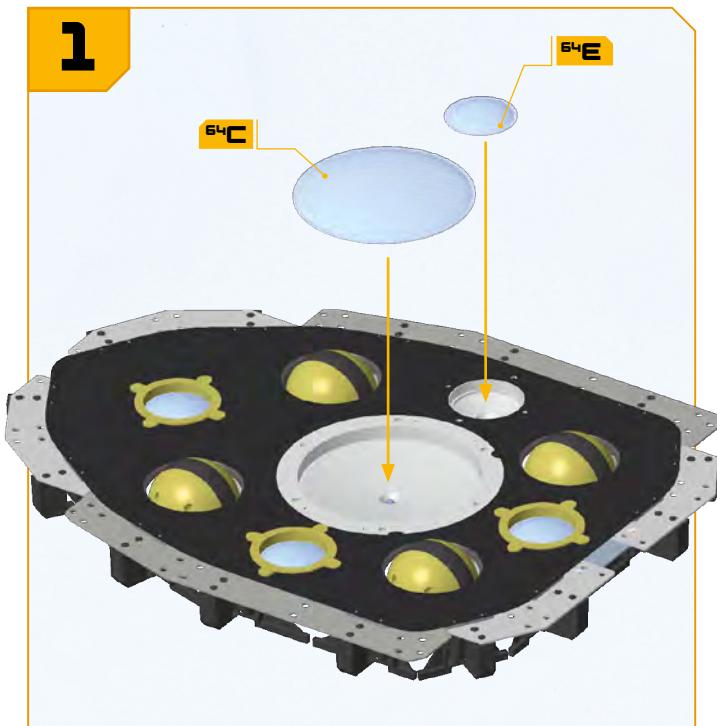
BASE SECTION

BASE ASSEMBLY



COMPONENTS OF ISSUE 64

64A	CABLE GRIP (X 2)
64B	CENTRAL LAMP COVER FIXING RING
64C	CENTRAL LAMP COVER
64D	LAMP COVER FIXING RING, TYPE B
64E	BASEPLATE LAMP COVER
HP	SIXTY 2.6 X 6MM PWB SCREWS (2 spare)



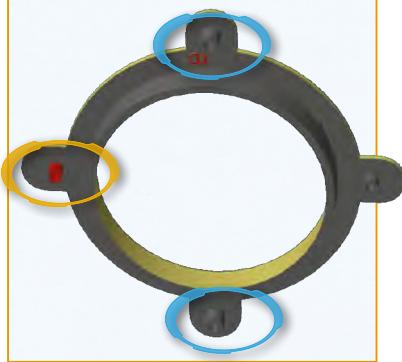
#64-01

Take the base assembly from the previous issue. Position the central lamp cover **64C** over the central lamp reflector and the lamp cover **64E** over the second side lamp reflector.



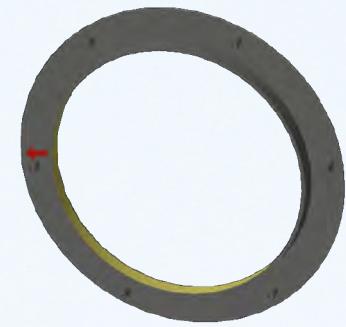
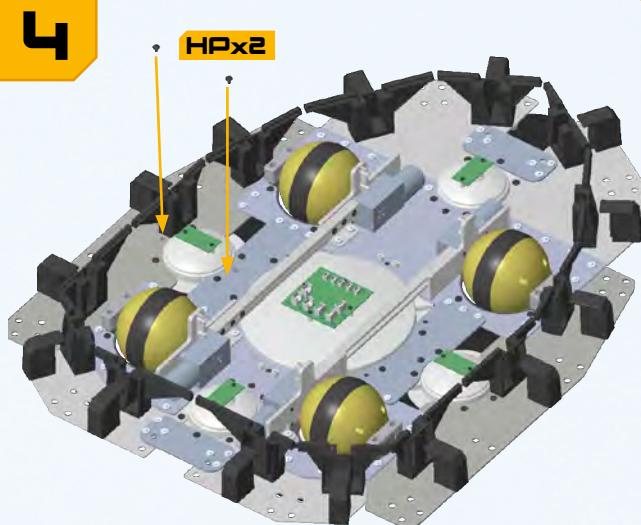
#64-02

Position the lamp cover fixing ring type **B 64D** over the lamp cover **64E**. The ring has one D-shaped raised screw socket (circled in gold, right) and two long raised screw sockets (circled in blue right). It has to be positioned as indicated by the gold and blue arrows.



3**#64-03**

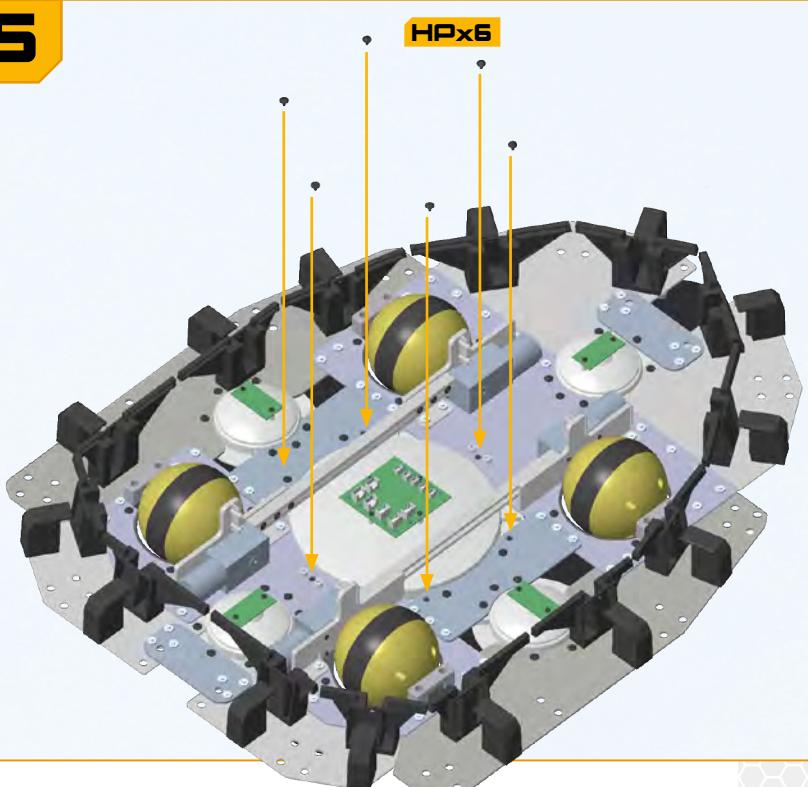
Position the central lamp cover fixing ring **64B** over the central lamp cover **64C**. Note that there is an arrow on the underside of part **64B** (below), which indicates the orientation of the ring, with the arrow pointing forwards. Five further raised screw sockets fit into corresponding holes in the central reflector.

**4****NOTE**

For clarity, the cables connecting the motors and lamps to the central circuit board are not shown in the following diagrams.

#64-04

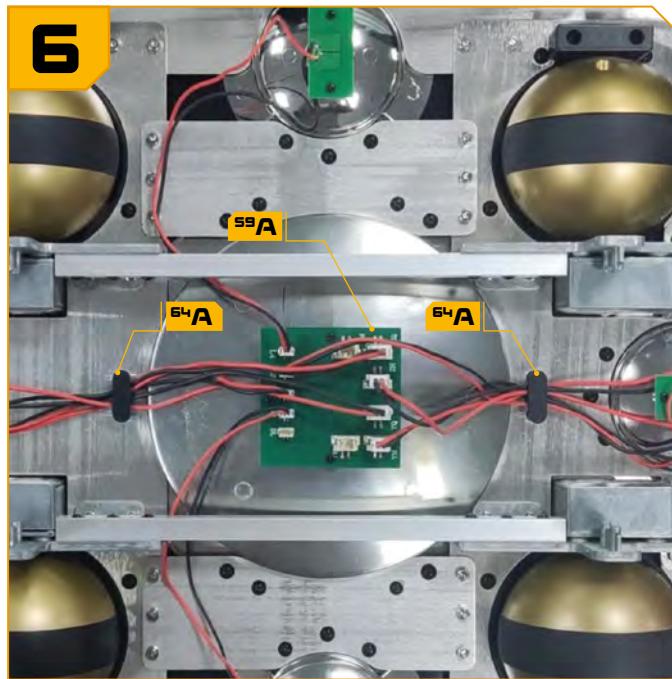
Carefully turn the assembly over, ensuring that the rings stay in position. Fix the lamp cover fixing ring, type B, **64D** in place with two **HP** screws.

5**#64-05**

Fix the central lamp cover ring in place with six **HP** screws.

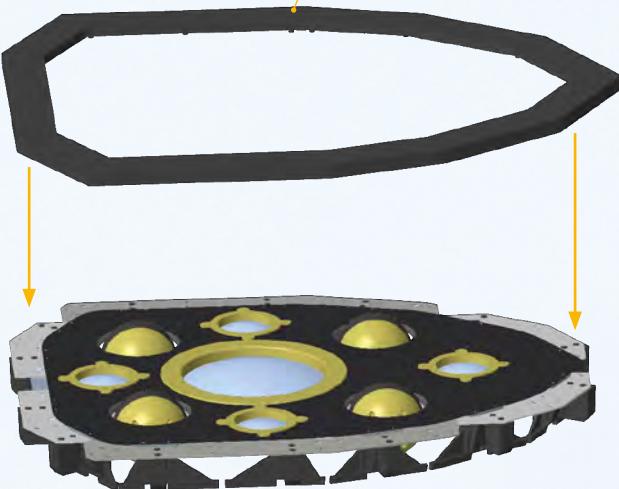
#64-06

Draw the cables running in and out of the central circuit board **59A** (connecting to the motors and small lamps) in between the raised sockets to the front and rear of the central reflector. Fit the pegs on the two cable grips **64A** into the raised sockets to hold the cables in place, as shown in the photograph.



7

From issue 47

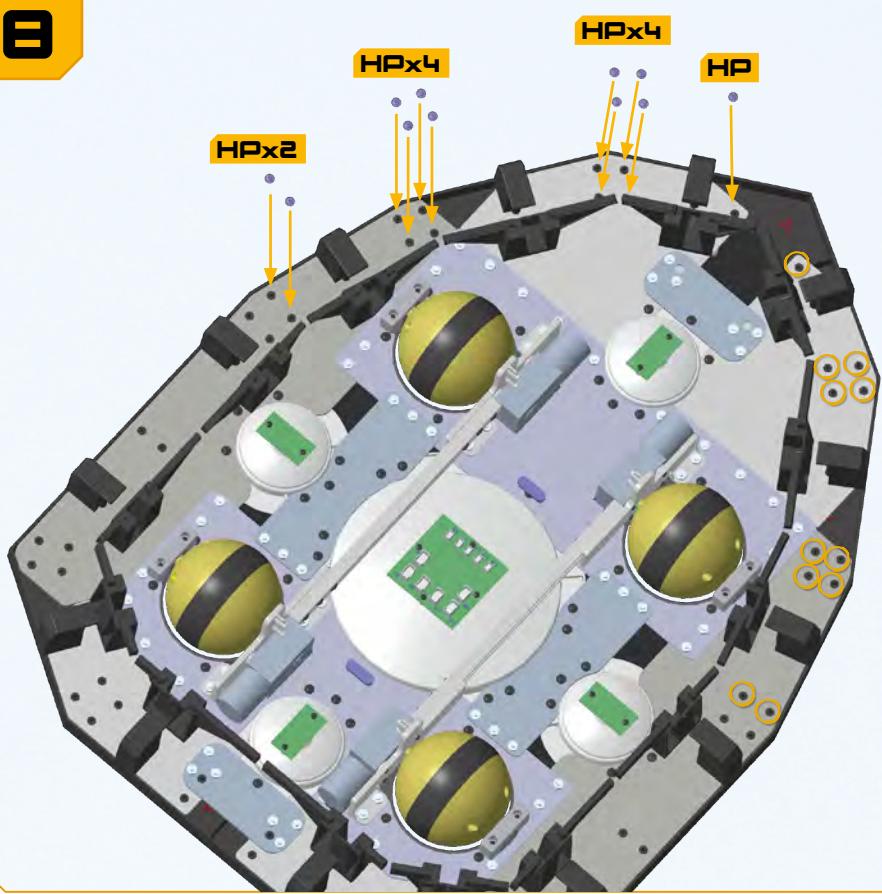


#64-07

Turn the base assembly upside down again. Take the base frame from issue 47 and fit it in place so that the screw holes are aligned. Raised screw sockets on the base frame fit through holes in the edges of the base plates.

8

HPx2 HPx4 HP

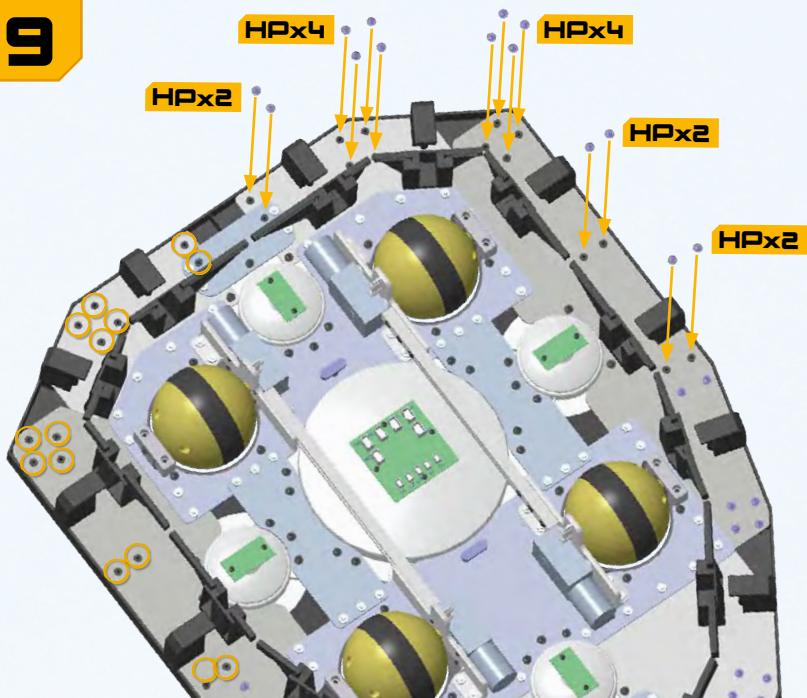


#64-08

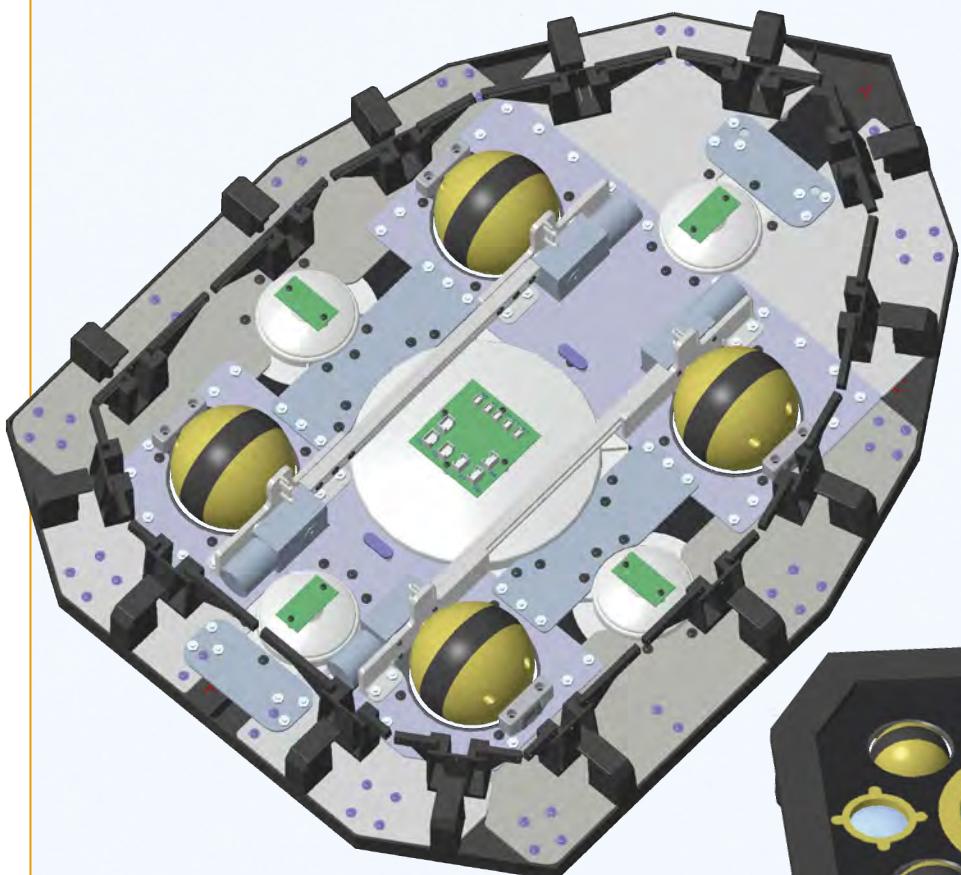
Turn the base assembly the right way up and work around the assembly, fixing the frame in place with **HP** screws. Here, the first 11 screws are being fixed in place. Eleven further screws are fitted in the screw holes circled in gold.

TIP

You may find it helpful to start by fitting one screw at the front of the base, one at the rear and one on each side. This will anchor the frame in place while you fit the remaining screws.

9**#64-09**

At the rear of the base assembly, fourteen **HP** screws are fitted in the positions shown here. A further 14 **HP** screws are fitted in the sockets circled in gold.

COMPLETED WORK**#64-COMPLETED WORK**

Two more lamp covers have been fixed in place and the base frame has been fitted to the underside of the base assembly.



THE

DALEK

COMING IN
ISSUE 65

▼ BUILD PART 65 ▼

This issue comes with a base frame cover and the base frame connecting plates, plus all the necessary fixing screws.



BEHIND-THE-SCENES



Nicholas Briggs is the voice of the Daleks on audio.

ADVENTURES IN
TIME AND SPACE



Trapped with the Daleks in *Mutually Assured Destruction*.

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