

Science Focus

The search for
WHAT GRAVITY IS MADE OF

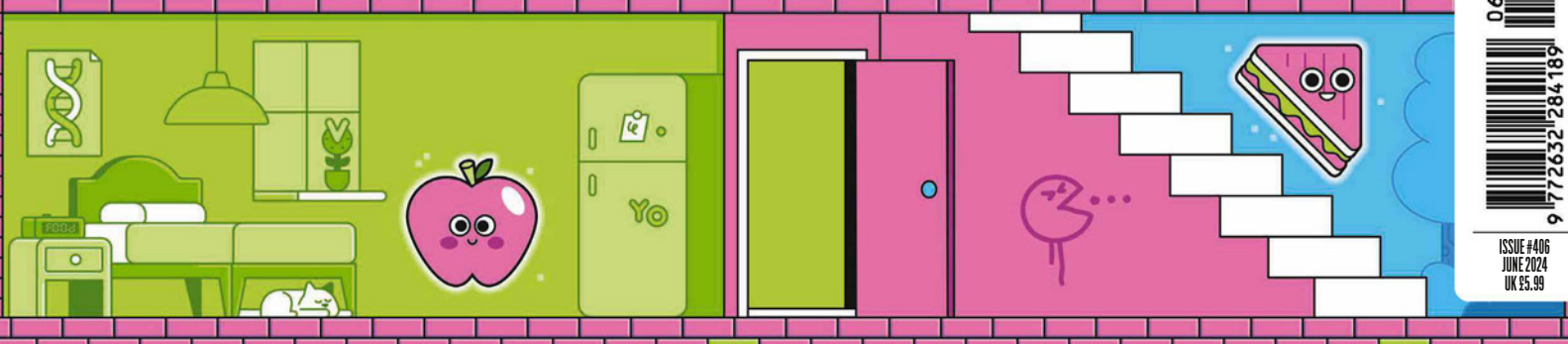
Do we need
ELECTRIC AEROPLANES?

How to
HACK YOUR MOTIVATION



THE HUNGER GAME

The hidden rules of appetite and how they work against you



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NEW ORLEANS, USA

It's been over 50 years since our last visit, but humanity's return to the Moon is inching ever closer. At NASA's Michoud Assembly Facility in Louisiana, engineers are installing the first of four RS-25 engines onto the second core stage of the Space Launch System (SLS). It'll also be a return to space for the engine you see here, 'E2059', as it was previously used in five shuttle launches between 2007 and 2011 (it's had an overhaul since then).

The SLS will propel Artemis II, the first crewed mission of the programme currently planned for September 2025. The crew of four astronauts will embark on a 10-day journey around the Moon and aim to set a record for the farthest human travel from Earth by venturing 7,500km (4,600 miles) beyond its far side. This will pave the way for a Moon landing with Artemis III.

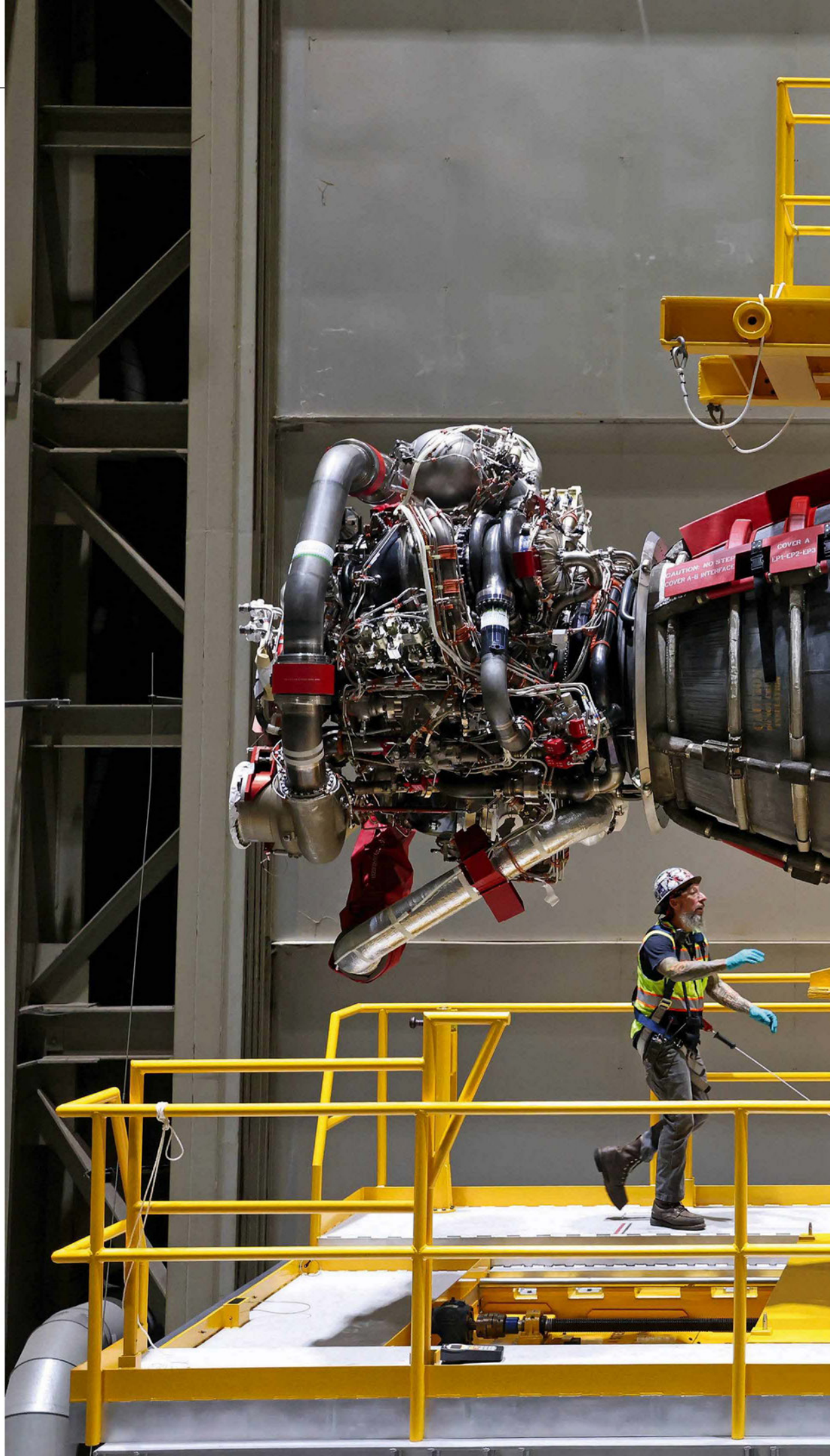
According to NASA, the RS-25 is the world's most high-performance, staged combustion engine. The four being installed for Artemis II will burn over 2.8 million litres (730,000 gallons) of super-cooled liquid hydrogen and oxygen in just eight minutes, producing the required thrust to get the astronauts into orbit.

NASA

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CAP. 17,000

SLING ASSY ENGINE CARRIER

MODEL: X11 H70-0320

CARRIER & WELD MODEL: 6

CAUTION
DO NOT CRUSH
INSULATION

2-000000000-01 MFR: 56547

HORIZONTAL ENGINE INSTALLER

