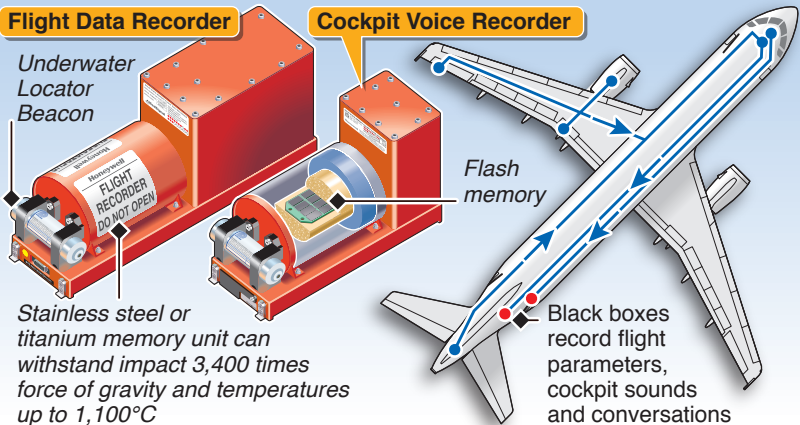# How black boxes reconstruct a crash

Information from an aircraft's flight data recorder and cockpit voice recorder – the so-called "black boxes" – is used to create an interactive animation of the flight displays in the final moments before a crash

Flight Data Recorder

Cockpit Voice Recorder

Underwater Locator Beacon

FLIGHT RECORDER DO NOT OPEN

Flash memory

Stainless steel or titanium memory unit can withstand impact 3,400 times force of gravity and temperatures up to 1,100°C

Black boxes record flight parameters, cockpit sounds and conversations

Primary Flight Display: Shows "big-five" flight instruments – artificial horizon, airspeed in knots, altimeter in feet above sea level, vertical speed in feet per minute, and compass heading

Navigation Display: Weather radar, route plan and aircraft systems data such as fuel, engine power and state of electrical systems

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LATERAL ACCELERATION

RUDDER: PEDAL

SURFACE

Sources: CAE Flightscape, Honeywell ED-55 Flight Data Recording System   © GRAPHIC NEWS