

# Bloodhound SSC: Race to 1,000mph

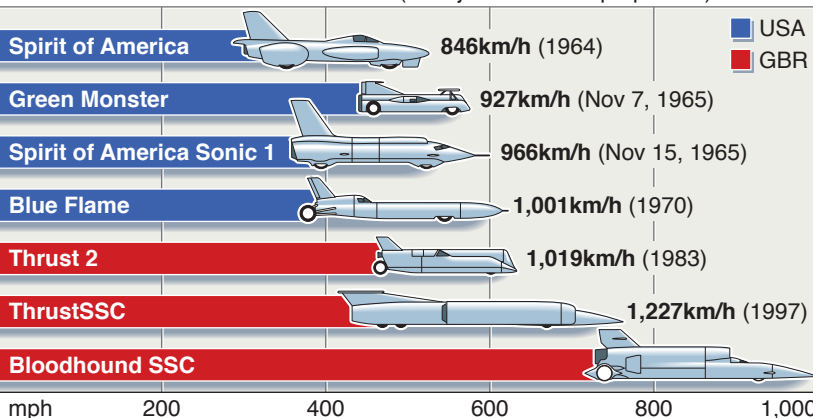
The British-engineered Bloodhound Super-Sonic Car (SSC) will attempt to break the 1,000mph (1,600km/h) barrier and set a new land speed record on a dried-up lake bed in South Africa in 2017

**DESIGN:** Aerodynamic shaping allows car to withstand speeds of up to Mach 1.4 – faster than bullet fired from Magnum 357 handgun

**Hakskeen Pan:** Venue for record bid



## EVOLUTION OF LAND SPEED RECORD (turbojet and rocket propulsion)\*



## BLOODHOUND SSC FACTS

Length of car	13.47m
Weight (fully fuelled)	7.8 tonnes
Turning radius	120m
Top speed	1,050mph (1,690km/h)
0 to 1,000mph (1,609km/h)	55 secs
Race track length	12 miles / 19km



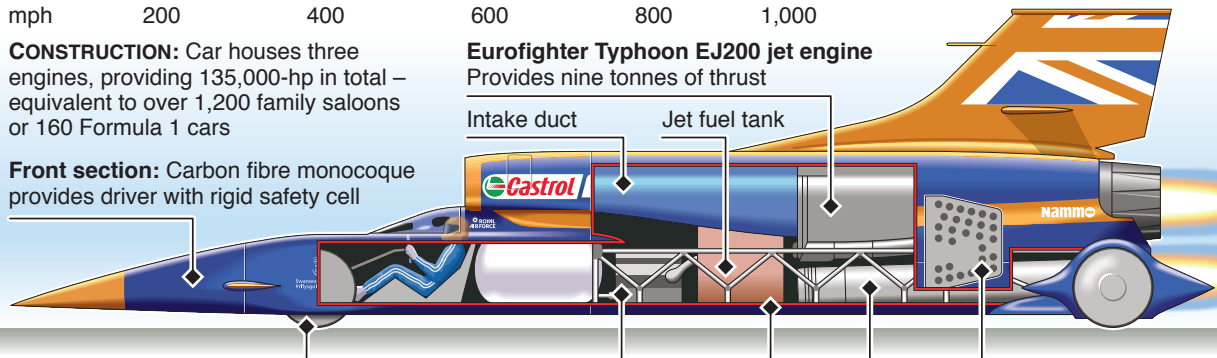
**Driver:** RAF fighter pilot **Andy Green** – holds current land speed record and was first person to break sound barrier on land, driving **ThrustSSC**

**CONSTRUCTION:** Car houses three engines, providing 135,000-hp in total – equivalent to over 1,200 family saloons or 160 Formula 1 cars

**Front section:** Carbon fibre monocoque provides driver with rigid safety cell

## Eurofighter Typhoon EJ200 jet engine

Provides nine tonnes of thrust



**Wheels:** Solid aluminium, rotate at 10,200 rpm. Rims subjected to 50,000G of centrifugal force

**Auxiliary power unit**  
550-hp Jaguar supercharged V8 engine drives pump for rocket fuel

**Rear chassis**  
Aluminium and titanium construction

**Rocket engine**  
12 tonnes of thrust

**Air brakes:** Used to slow car down at end of run. Parachutes and disk brakes also used