H1 UNLIMITED

ANATOMY OF A HYDROPLANE

WING 1

The horizontal rear wing can be raised and lowered by the crew in the pit area to adjust the attitude of the boat.

RUDDER 2

Is a stainless steel blade mounted on the transom of the boat – controlled by the driver with the steering wheel.

PROPELLER 3

The 3 blade stainless steel propeller delivers thrust through the water. At high speed, only one of the three blades is in the water at any one time.

GEAR BOX 4

The gear box connects the turbine engine to the propeller shaft. Different gear boxes have different gear ratios for changing conditions.

SPONSONS 5

Mounted on the sides of the forward section of the hull, the sponsons provide hydrodynamic lift when they touch the water. In racing attitude, the hull rides on air trapped between the sponsons.

SKID FIN 6

A large metal blade almost as sharp as a knife at its leading edge, bolted to the left sponson to prevent the hull from skidding in the turns.

COWLING 7

A fiberglass cover designed to gather and force air into the turbine engine.

COCKPIT 8

The driver's command center, including a custom fitted seat, steering wheel, accelerator and canard pedals, and an array of instruments.

CANARD 9

Using foot pedals in the cockpit, the driver adjusts the angle of this front wing to control the boat's flight over the water surface.