

Audi R18 e-tron quattro



Audi R18 e-tron quattro #2 - 1st 24h Le Mans 2013

T. Kristensen, A. McNish, L. Duval



Scale	CW17		Release date April 2016		Motor	Pinion/Gear	Front Rims/Tyres	Rear Rims/Tyres		
1:32	150mm	34mm	93mm	64mm	86gr	Flat-6 20.5K	11/28	17.3x10 1152C1	17.3x10 1152C1	
	Inline	Sidewinder	Inline Boxer	Anglewinder	4WD System	Setup	Nd Magnet	Race Magnet	Suspension	Lights
Motor mount	X	X	X	● [1]	●	●	●	○	○	○

[1] box stock standard: offset 1 mm

Digital	Chassis	Cokpit
	○	○
	○	○
Carrera D132	○	○

● Standard
○ Compatible X Non Compatible

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The R18 e-tron quattro is a hybrid version of the R18 ultra, named after Audi "e-tron hybrid technology", which consists of a front mounted electric motor working in synch with Audi integral traction system. A diesel engine provides power to the rear axle both on the Audi e-tron as well as on its more traditional sibling Audi R18 Ultra. The energy storage unit for the electric motor is a flywheel system designed by Williams Hybrid Power. The Audi R18 e-tron belongs to the 2 megajoule (2MJ) category.

A four wheels drive system, as per the Le Mans regulations, can only be used on hybrid cars if the electric motor is mounted on the opposite axle of the traditional motor. Besides, electric traction may only be available at speeds above 120 km/h (75 mph), to limit the traction advantage of a 4WD system at slow speed. Management of electric motor and of drive train is completely automatic.

On its Audi R18 e-tron Slot.it has created a 4WD system which is truly unique and innovative. In the Slot.it system, a toothed belt provides power to the front axle through two micro pulleys which are coupled to the left wheels. Here, the work of two clutched bearings (unidirectional bearings), mounted between the front wheels and the front shaft, makes it possible to transmit positive torque only, removing any braking torque, so that the model, while retaining real 4WD traction, keeps its top speed on straights and handles like it should when turning.

In 2013 the race was interrupted several times because of the numerous accidents. Eventually, for the third consecutive year a car Audi Sport Team Joest prevailed, driven by Tom Kristensen, Allan McNish and Loïc Duval.

