

**Robby Gordon Off-Road Dakar Hummer H3 Technical Specifications**

TEAM DAKAR USA &gt; Tech Specs

**CHASSIS & SUSPENSION****Material:** 4130 steel alloy space frame construction**Wheelbase:** 120 inches**Track:** 88 inches front and rear**Overall Length:** 174 inches**Overall height:** 65 inches**Weight:** 4,500 pounds**Front Suspension:** Double "A" arms with coil-over springs and specially calibrated, four position-sensitive by-pass shocks by King. Total vertical wheel travel 20 inches.**Rear Suspension:** Semi-trailing lower arm with integral hubs, 934 series CV joints and stub axles by Kartek Manufacturing. King coil-over four-position shocks and springs. Total vertical wheel travel 20 inches.**Brakes:** Four wheel disc ProAm brakes by Kartek Manufacturing. A special hand-operated "splitter" brake in the cockpit enables the driver to make tighter and faster turns by isolating the right and left rear brake systems**Steering:** Robby Gordon Motorsports power-assisted rack and pinion. One turn lock to lock (37 degrees)**Fuel System:** Twin fuel tanks, with Fuel-Safe fuel-cells carry 100 gallons of Regular Grade ASO mandated pump gas. Mileage varies according to conditions, but under the worst-case scenario the Hummer H3 can cover 500 miles without refueling**Jacking System:** Twin Howe integral chassis mounted hydraulic rams can lift either side of the car to facilitate a change of tires or extracting from sand and/or mud**TIRES & WHEELS****Tires:** Toyo Open Country M/T 37 x 14.50R15 (two spares are carried on board)**Wheels:** Robby Gordon 17 x 6.5 alloy racing wheels with integral bead locks.

## NAVIGATION

Navigation Aids: Twin Terra-Trip odometers with KVH digital compass, twin GPS, with ASO supplied Iritrac team navigation/locator units. Note:

ASO GPS units are purposely limited in accuracy by the organizers to place a premium on the team's navigation skills. By ASO regulation no communication systems of any type are allowed. The Iritrac system will allow viewers to follow the progress of the race in real time on the team's website, Robby Gordon.com The Hummer is also equipped with an ASO required Belize satellite tracking emergency, homing beacon which, if activated, immediately disqualifies the entry.

## BODY & INTERIOR

- Body: Carbon fiber replica of the Hummer H3 developed at the GM Wind Tunnel in Warren, MI, made by Menards Engineering Limited in Oxfordshire, England .
- The two-place cockpit for driver and navigator is completely sealed, filtered by UNI and cooled by an engine driven-air conditioning system. (NO A/C System)
- Seating: Twin Custom built MasterCraft buckets with Simpson five point harnesses. Driver and navigator also wear custom made Simpson fire suits
- Electrical and Lighting Systems: Twin Pro-Comp batteries power a Milspec type, custom wired RayChem harness designed and fabricated by James Lin. Lighting by three Hella HIDs units on roof and two high beam/low beam Hella HID units on the front bumper with 55 watt street legal lamps.
- Custom fabricated RGM/RacePak digital instrument panel allows monitoring of all vital systems.

## ENGINE

Rear mounted, GM designed, fuel injected, normally aspirated, with alloy block and heads, 7.0 liter LS7 series V8, built at GM the Racing Wixom Powertrain labs.

- The engine build specifications, with the exception of compression ratio, intake manifold and camshaft are production specifications.
- ASO regulations limit power by use of a sealed induction system using a 37.2mm inlet anulus. A four-gallon plenum feeds double filtered air to the engine. Bassani Headers with a single Magnaflow muffler keeps the engine within FIA mandated noise limits.
- Cooling: Seven-gallon re-circulating through a Ron Davis radiator with two integral heat exchangers for engine and transmission coolant.
- Ten gallons of emergency coolant/drinking water are carried on board in two five-gallon containers.
- The Hummer also uses UMI Racing Technology Mefi 4 engine management system and software along with UMI dash and data logger system
- Motor dyno tuned by GM.

## TRANSMISSION

6-Speed sequential Albins/Weddel manual shift transaxle. Power is fed through a multi-plate Tilton Engineering clutch assembly.