

## Pinion Type Electric Power Steering System for the Racing Car

Lightweight pinion-type electric power steering for severe condition in races has been developed for the racing car.



Equipped car

### Features

- High maneuverability close to the hydraulic power steering.
- Quick response under high load by curbs and high speed cornering.
- High durability for frequent vibration and high temperature.

#### 1. Conditions of Use

- (1) Equipped car: Super GT500 Racing car
  - Weight: 1 100 kg
  - Drive system: FR
  - Engine displacement: 3 396 cc
  - Maximum output: Over 530 ps
  - Maximum torque: Over 441 N·m
- (2) Equip location: Engine room (steering), in the cabin (controller)

#### 2. Structure

- (1) Pinion-type electric power steering
- (2) High-strength, High-efficiency reducer
- (3) Carbon/aluminum hybrid rack
- (4) Controller: High output, high response control

(Advanced Core Technology Research Dept., Research & Development Headquarters)

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