Driver Interface

Main Achievements:
• Comfortable and intuitive to the driver
• Easy to calibrate and maintain
• High factor of safety
• Near optimal positioning of center of gravity in respect to the driver

Main Features:
• Ergonomic grip
• Dash display
• Carbon fiber shifters
• Clutch handle behind steering wheel
• In-column wiring

Components
<table>
<thead>
<tr>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Steering wheel and dashboard</td>
</tr>
<tr>
<td>2 Driver seat and headrest</td>
</tr>
<tr>
<td>3 Pedals</td>
</tr>
<tr>
<td>4 Clutch lever mechanism</td>
</tr>
</tbody>
</table>

Pedals

Main Features:
• Top mounted pedals
• Adjustable throttle sensitivity
• 50% weight reduction
• Pedal mounted overtravel switch
• Custom balance bar

Electronic & Control

Rapid Harness

Drag Reduction System (DRS)

Goal:
To reduce the drag force on the vehicle in straights without losing downforce in corners.

ECU
Throttle Sensor
Steering Angle Sensor
Position Signal
DSS control schematic

Anti Roll Control

Goal:
To reduce oversteer/understeer behavior by controlling the ARB’s roll stiffness.

ECU
Lateral Acceleration Sensor
Wheel Speed Sensor
Steering Angle Sensor
PWM Position Signal
Sensor signals

Goal:
Electrically actuate gear shifting to reduce weight and shifting time

Electrical Components

ECU
Motor
Motor controller
Power inverter
Battery

Time frame:

Pre-shift

<table>
<thead>
<tr>
<th>Shift</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up</td>
<td>1 → 2: 40 ms</td>
</tr>
<tr>
<td>Down</td>
<td>2 → 3: 30 ms</td>
</tr>
<tr>
<td></td>
<td>3 → 4: 30 ms</td>
</tr>
</tbody>
</table>

Recover

→ 10 ms