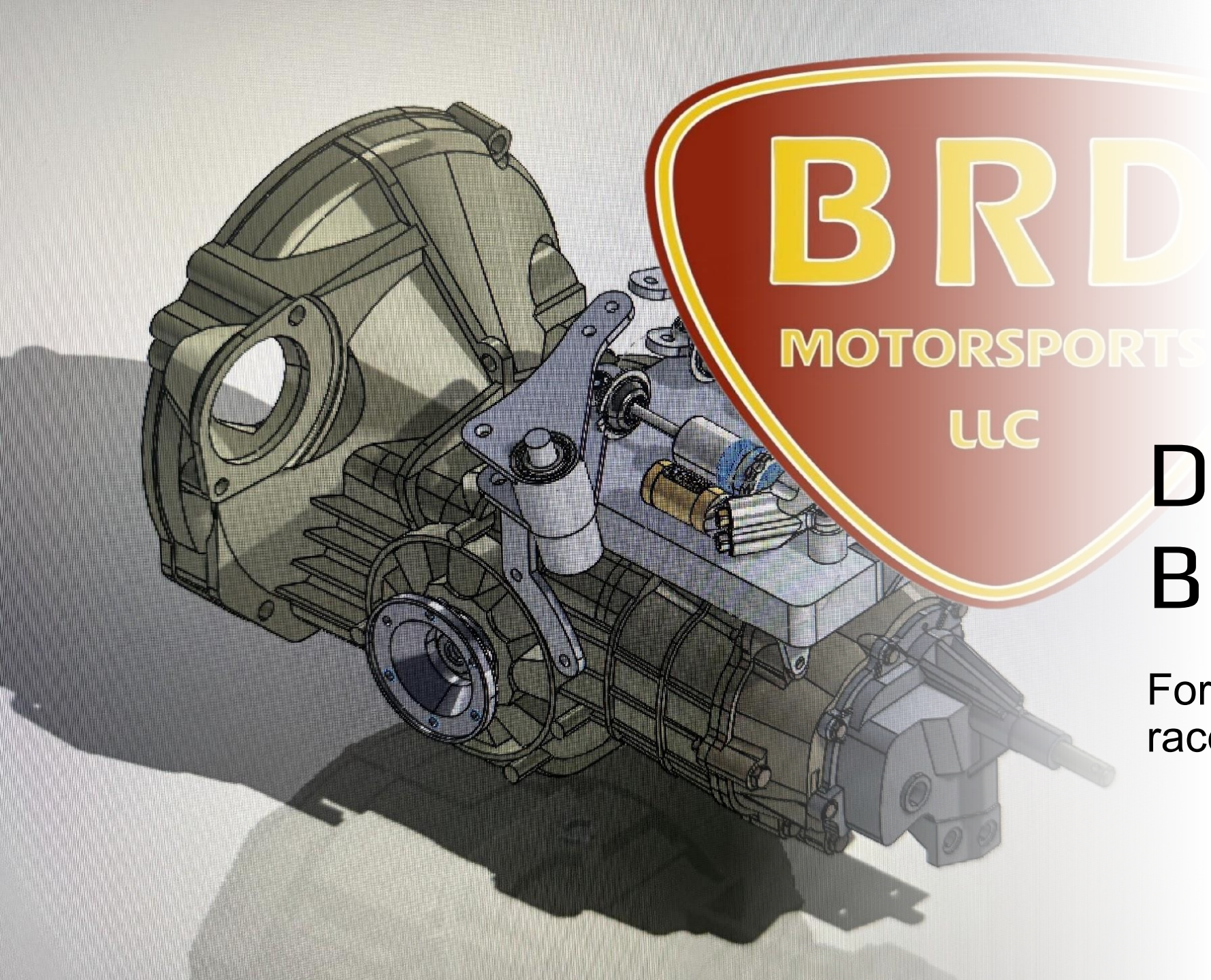

DRRS BY BRD

For all VW Swing axle race cars

System Features

DRRS High-Performance Rear Suspension

Fully Adjustable

DDRS fully adjustable rear suspension engineered specifically for Formula Vee and Formula FST race cars.

Versatile Fitment

Compatible with sports racers. Designed for easy setup—scales are not absolutely required for operation.

Driver Implementation

Professional test driver implementation and trackside setup guidance available as an optional service.

Technical Support

6 months of dedicated technical phone support included to assist with setup, tuning, and troubleshooting.

Bolt-On Installation

Direct bolt-on design for most chassis types, minimizing downtime and eliminating complex custom fabrication.

Öhlins Shocks

Equipped with premium Öhlins dampening units for elite performance, consistency, and precise feedback.

What the System Includes

DRRS High-Performance Suspension Kit & Race Results

System Overview

Engineered to overcome limitations in Formula Vee and Formula FST tuning.

- Dynamic Rear Roll Stiffness (DRRS) adds precise roll stiffness adjustment to front and rear.
- Allows complete fine-tuning of corner weights for maximum chassis balance.
- Easily dials in high-speed stability and front-to-rear weight transfer control.

Kit Specifications

Fully independent rear suspension design built with top-tier components:

- **Öhlins Dampers:** Dynamic roll stiffness adjusted via quad-adjustable units.
- **Droop Limiter:** Precision-adjusted via 5/16” Heim joints on 3/16” stainless cable.
- **Protected Mounting:** Top-of-transmission placement protects dampers from impact damage.

Proven Results

Tested and aggressively competed in the 2022 race season:

- **Pittsburgh Pole Position:** 0.80 seconds ahead of 2nd place.
- **Record Speed:** Set lap record pace at Pittsburgh.
- **Mid-Ohio Victory:** Race win with a massive 20-second lead over 2nd place.

From the Designer

BRD DRRS Suspension Kinematics & Heritage

Kinematics & Concept

A fresh approach to controlling individual wheel rates independently:

- **Dedicated Dampers:** Each wheel has its own damper, preventing cross-talk in normal ride conditions.
- **Precision Cornering:** Enables independent wheel movement and precise cross-weight (weight jacking) tuning.
- **Droop Limiter:** Isolates wheel loads without interfering with opposite side suspension travel.

Design & Engineering

Engineered for durability, easy installation, and peak performance:

- **Protected Mounting:** Form-fitting billet cradle mounts directly atop the VW transmission to prevent damage.
- **Öhlins Dampers:** Quad-adjustable premium Öhlins shocks combined with laser-cut billet parts.
- **Bolt-On Convenience:** Cost-effective kit that installs easily over a single weekend.

Championship Proven

Demonstrated victory and dominance in competitive racing:

- **2025 US FST Champion:** Outperformed the competition to win the US FST Championship title.
- **Australian FV Dominance:** Dominant force down under with the Akurra team in the Australian FV series.
- **Track Record:** Secured numerous pole positions, race wins, and championship points.