



Product

Custom Shift Detent Mechanism

Application

Automotive Transmission

Highlights

- Custom engineered solution
- Heat treated, high-carbon material housing
- Value-added, press fit assembly

A major manufacturer of automotive transmissions and transfer cases needed a custom shift detent mechanism for a smooth shift engagement in their new system.

The customer's engineering team contacted Kilian early in their development process and began working closely with their design engineering counterparts at Kilian. For this new and challenging application, "catalog" detents were not an option. The design evolved over a number of prototype iterations, morphing from a soft low-carbon material housing with no grease, to a heat treated high-carbon material housing that was greased in the final assembly.

Throughout the entire development process, Kilian engineers performed much of the testing and supported the customer with critical data that professionally guided the decision making process.

The final design was a value-added shift detent that performed with excellent results. The new material selection satisfied the applications press fit and the smooth rolling performance exceeded expectations.

Kilian is the global custom engineered leader in value added solutions for many of the world's largest automotive and industrial OEM's.

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