

Solutions a measure of **Solutions** Success Solutions



"I have worked with Delta Systems for many years on a wide variety of projects. Delta continues to bring innovative electronic solutions to our organization and is a great partner to work with on joint development projects."

Mike Miller, VP Engineering, Cub Cadet Tractors

MTD prides itself on taking a leadership role when it comes to product safety. One example of such a leading role dates back to the 1980s when MTD decided to not allow the blades to operate when a lawn tractor was put into reverse. Over 20 years later, the Outdoor Power Equipment industry decided to incorporate reverse safety into a standard. MTD naturally wanted to again take a leading position.

The Challenge

MTD wanted to give their customers the safety and reliability historically associated with MTD equipment, but they also wanted to find an innovative way to give consumers the choice to mow while in reverse if the surrounding conditions were safe. MTD partnered with Delta Systems to find a solution that would fit their needs.

Together We Found The Issues

Delta and MTD worked as a team to understand the complex requirements for the new system. We collaborated to find electronic and electromechanical solutions that would be reliable, user-friendly, cost-effective, fit into existing and future products, and would deliver the option to mow in reverse.



Together We Solved The Problem

The final design was a cost-effective reverse system completed within MTD's rigorous timeline and safety standards. After the final concept was selected, Delta was in full-scale manufacturing within seven months. The final product is a combination of electromechanical and electronic elements that combine the consumer's long cherished desire for safety with the optional convenience of mowing in reverse. Nine months after the product was introduced to the market, MTD and Delta Systems accepted an award in Washington D.C. from the Home Safety Council for Safety Innovation.

Successful Solution

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