

AStuff MKZ



Overview

The **AStuff Lincoln MKZ** automated research development vehicle allows for full drive by-wire capability. Installed with the **latest firmware**, the Lincoln is fully **customizable**, includes extra large trunk space and has multiple cooling options, making it perfect for your automated project.

Key Features

Major features on the AStuff Lincoln MKZ are:

- CAN interface
 - Mode status indication
 - Visually-audible advanced fault detection interface
 - Joystick control interface
 - Speed and steering controller available
 - ROS node available
 - Full DBC file available
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Feedback

AStuff's Lincoln MKZ installed with the latest firmware has the following feedback capabilities:

- Throttle percentage (0% - 100%)
 - Brake percentage (0% - 100%)
 - Vehicle speed
 - Steering angle
 - Shift status
 - Individual wheel speeds
 - Turn signal status
 - Brake light status
 - Individual turn signal status
 - Headlight light status
 - Vehicle date/time
 - Ambient light dim level
 - Ambient light status (high/low)
 - Door/trunk/hood statuses (open/closed)
 - Passenger airbag detection status
 - Driver seat/passenger seat buckle status
 - Vehicle stationary status
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About AutonomouStuff

AutonomouStuff is the leader in supplying components, engineering services and software that enable autonomy. We take advantage of today's most innovative technologies to help ensure your success. Contact us today to take your project to the next level.

Tel: 309 291-0966

Email: Support@AutonomouStuff.com

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Control Capability

The AStuff Lincoln MKZ installed with the latest firmware has the following control capabilities:

- Accelerator
 - Brake
 - Steering
 - Shifter
 - Horn
 - Turn signals
 - High beam headlights
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Safety first

Safety is a top priority for AStuff. Our Lincoln MKZ automated research and development platform has been designed to allow operators to easily regain control of the vehicle at any time, as well as alert operators of numerous faults.

While in autonomous mode, operators can at any time regain manual control of the vehicle by:

- pressing the emergency stop button.
- actuating the brake pedal.
- actuating the accelerator.
- turning the steering wheel.

This platform has been designed to detect certain faults in the vehicle control modules. The current fault detections on the latest firmware release for the AStuff Lincoln MKZ are below:

- Braking
- Acceleration
- Shifting
- Steering

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