

# TRANSPORTATION PRODUCTS



*Teach your vehicles new tricks.*

Idle reduction, anti-theft, safety and performance products  
for transit, paratransit, school bus and shuttle vehicles



An ISO 9001:2015 Registered Company

# ABOUT

## What We Do

InterMotive Vehicle Controls provides commercial safety and performance optimization products. Our **plug-and-play electronic control systems** leverage a vehicle's own data networks to enhance its function in new ways.

Working closely with chassis and vehicle manufacturers, upfitters and fleets, we design and build products that address safety and performance challenges with practical, custom-tailored solutions.

## Product Solutions Your Way

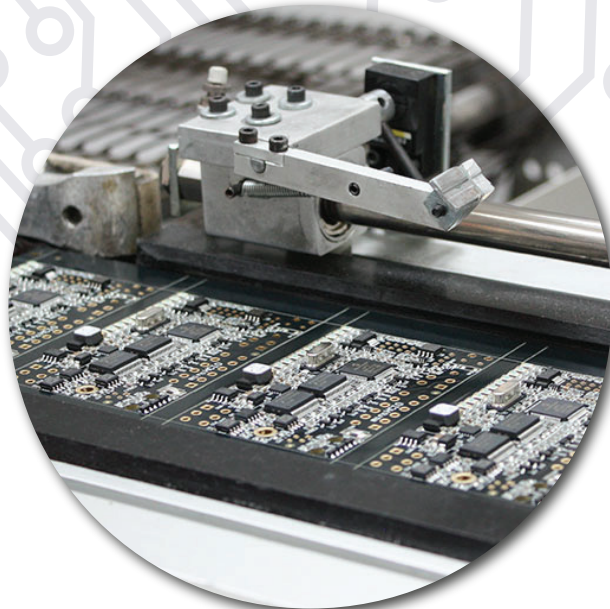
Our systems include plug-and-play connections to the OEM chassis that minimize or completely eliminate cutting of factory wires.

To accommodate your unique needs, many InterMotive products allow for custom programming. You can choose to order pre-configured modules, custom configs or program yourself.

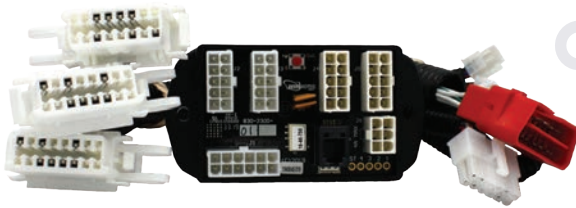
Downloadable programming utility software and mobile apps provide instant-change capabilities, so your vehicles function exactly how you want.

## Proudly Built in the U.S.A.

Our products are manufactured and assembled in-house by our team of dedicated, highly trained employees. Our on-site engineering team often designs product solutions within weeks, versus OEM improvements, which can take years.



# CAN DATA PRODUCTS



## Break Out Box (BOBe™)

*Vehicle Network Multi-Access Hub*

### WHAT IT DOES

- Connects multiple devices to the CAN bus
- Provides passive data acquisition using an auxiliary CAN network

### WHY YOU WANT IT

- Removes compatibility issues by decreasing conflicting active requests on the network
- Eliminates the need for multiple harnesses linked to the OBDII/Gateway

## J1939 Translator

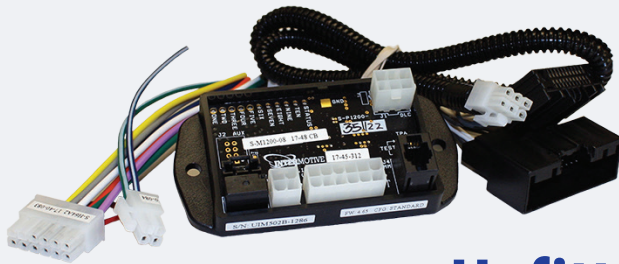
*Uni-directional Communications Portal*

### WHAT IT DOES

- Allows third-party J1939 devices to be installed on vehicles that do not support its protocol by translating CAN network data

### WHY YOU WANT IT

- Transmits all processed J1939 data and does not interfere with the vehicle's data stream



## Upfitter Interface Module®

*Programmable CAN Data Access System*

### WHAT IT DOES

- Provides access to CAN vehicle data to activate and control equipment

### WHY YOU WANT IT

- Easily programmable using our Graphical User Interface with AND/OR logic
- Access to real-time chassis data allows you to customize up to 8 outputs



# IDLE MITIGATION SYSTEMS

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## EcoStar™ III

*Key In/Out Idle Reduction System*

### WHAT IT DOES

- Enhanced automatic engine stop/start system provides anti-theft and added customization functions
- Prevents idling, saves fuel and money

### WHY YOU WANT IT

- Includes anti-theft features (key-out mode, shift lock and automatic door lock)
- Mobile app allows users to custom program settings, enable manual remote start and track real-time chassis data



# INTERLOCKS

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## Gateway

*Shift Interlock and High Idle System*

### WHAT IT DOES

- Prevents vehicle movement while the wheelchair lift is in use by locking the shifter in Park
- High idle function provides more power when operating equipment and improves A/C performance

### WHY YOU WANT IT

- All-in-one product ensures full functionality of the vehicle's systems while using the lift
- Fully compliant with FMVSS 403/404 and the Americans with Disabilities Act (ADA) for wheelchair lift interlocks

## Idle Timer Controller

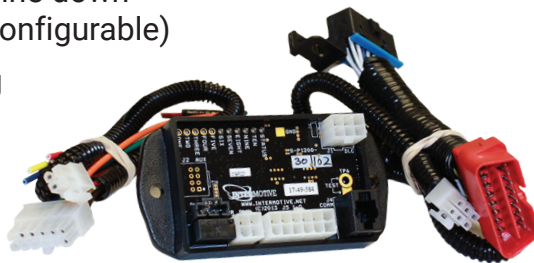
*Idling Engine Shutdown System*

### WHAT IT DOES

- Automatically shuts the engine down after a set period of time (configurable)
- Prevents unnecessary idling

### WHY YOU WANT IT

- Helps meet state and local anti-idling regulations
- Allows override if equipment is in use



# Intelligent Lift Interlock System™

*Shift Interlock for Manual or Electric Doors*

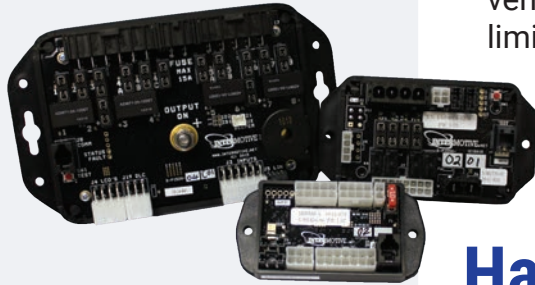
## WHAT IT DOES

- Prevents the vehicle from shifting out of Park if the wheelchair or ramp is in use or until properly stowed
- Prohibits lift operation unless the vehicle is in Park and the park brake is set

## WHY YOU WANT IT

- Ensures safe operation of vehicle equipment
- Fully compliant with FMVSS 403/404 and the Americans with Disabilities Act (ADA) for wheelchair lift interlocks

# LOAD CONTROL SYSTEMS



## FlexTech™

*Programmable Electrical System*

## WHAT IT DOES

- Simple multiplex system designed to control loads and customize vehicle operation
- Connects electronic modules through the vehicle network

## WHY YOU WANT IT

- Minimizes wiring and eliminates the need for timers, flashers and latching relays
- Settings are easily customized through our Graphical User Interface using AND/OR logic

# OBSTACLE DETECTION

## Camera Controller

*Expanded View Safety System*

## WHAT IT DOES

- Activates up to three cameras when turn signals are on or the transmission is in Reverse

## WHY YOU WANT IT

- Increases the driver's range of vision while the vehicle is in motion; perfect for vehicles with limited lines of sight

## HawkEye™

*Object Detection System*

## WHAT IT DOES

- Using ultra-sonic sensors in the front and rear vehicle bumpers, the system alerts the driver with visual and audible warnings

## WHY YOU WANT IT

- Automatically activated when in Reverse
- LED display makes it easy to determine the location and distance of the object



# SAFETY

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## Engine Monitoring & Shutdown System

*Automated Powertrain Protection*

### WHAT IT DOES

- Monitors powertrain conditions and initiates a warning and engine shutdown sequence if parameters are exceeded

### WHY YOU WANT IT

- Helps prevent engine/transmission damage



## FlexSpeak™ ADA

*Complete Bus Stop Announcement System*

### WHAT IT DOES

- Automatically broadcasts bus route and safety information verbally and visually using the vehicle's PA system and a destination sign
- Integrated GPS unit delivers accurate location details to trigger system messages

### WHY YOU WANT IT

- Provides an improved transit experience for all passengers
- Fully compliant with the Americans with Disabilities Act (ADA) stop announcement regulations

## MobilSafe™

*Wheelchair Securement Monitoring System*



### WHAT IT DOES

- Ensures the wheelchair is immobilized and the passenger is buckled during transport
- Head unit display provides easy setup configuration and in-use procedure guides for the operator

### WHY YOU WANT IT

- Compatible with both new and existing vehicles
- Records and stores securement data in case of an accident

## Crank Disable/Crank Enable

*Safe Startup System*

### WHAT IT DOES

- Prevents engine start-up or allows engine start-up depending on customizable safety conditions

### WHY YOU WANT IT

- Helps to avoid unintended vehicle movement
- Inexpensive safety enhancement, required by some states

## Pre-Trip Module

*Light Cycling & Bluetooth CAN Data*

### WHAT IT DOES

- Automatically rotates through all exterior lights

### WHY YOU WANT IT

- Allows for a single person to complete a pre-trip inspection
- Includes function to provide vehicle data for third-party software packages via Bluetooth-enabled devices

# SAFETY CONTINUED



## SafeSTOPS™

*Student Transportation Off-Boarding Protection System*

### WHAT IT DOES

- Ultrasonic sensors detect objects in the doorway
- Large LED display and beeper alerts the driver before the vehicle is put in motion

### WHY YOU WANT IT

- Prevents children from getting trapped in bus doors and potentially life-threatening situations

## School Bus Flasher

*Light and Arms Controller*

### WHAT IT DOES

- Helps protect students by alerting nearby drivers as the bus approaches a stop
- Controls the flashing function of amber and red lights, plus operation of stop and crossing arms

### WHY YOU WANT IT

- Increases visibility and indicates that children are exiting the vehicle
- Integrates with FlexTech for extra functionality



## SeatLink™

*Seat Information Tracking System*

*Sold exclusively through Freedman Seating Company*

### WHAT IT DOES

- Displays and tracks the occupancy and belt status of passenger seats in a vehicle

### WHY YOU WANT IT

- Helps ensure all passengers are safely belted

# SPEED LIMITER

## Speed Sentinel™

*Road Speed Limiter*

### WHAT IT DOES

- Limits the maximum vehicle speed, but does not limit the engine output

### WHY YOU WANT IT

- Helps prevent accidents and unsafe conditions
- Includes modes for passing traffic, emergency override and a theft deterrent feature

# THEFT PREVENTION PRODUCTS

## CATalert™

*Catalytic Converter  
Anti-Theft Alarm*

### WHAT IT DOES

- Helps prevent stolen catalytic converters

### WHY YOU WANT IT

- Warns away thieves with an audible alarm
- Option to report real-time tampering via telematic devices
- Protects costly replacement parts



## IdleLock™

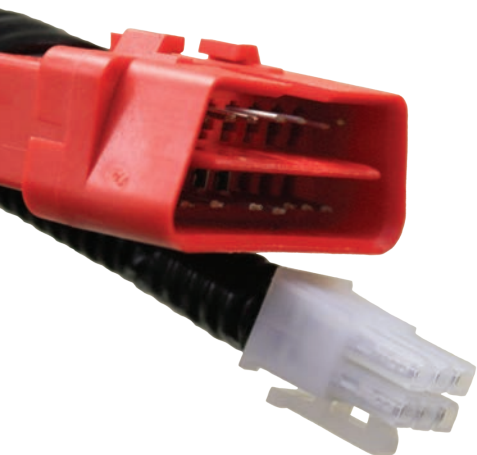
*Anti-Theft for Idling Vehicles*

### WHAT IT DOES

- Allows the engine to idle with the transmission locked in Park

### WHY YOU WANT IT

- Prevents vehicle theft while all lights, equipment and HVAC are fully functional
- Driver can remove the key and lock the doors for added protection



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U.S. Patents #11,685,531; #11,312,330; #10,870,411; #9,469,261 and Patent Pending | REV\_AG

Product features may vary by make, model or year. See instructions for complete details.