

Vehicle Automation



Autonomous Solutions Inc. is a world leader in the automation of OEM Vehicles. Standardized hardware and software enable a cost efficient solution designed and tested for years of reliable operation.

Experience Matters

ASI has automated over 40 different OEM vehicle platforms:

- Large (100+ ton) industrial vehicles
- Tractors, backhoes, and excavators
- Small off-road utility vehicles
- Consumer trucks, SUV's, and cars
- Tracked and wheeled vehicles

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S O L U T I O N S

Vehicle Automation Features and Highlights

Driving Capabilities Enabled

- Driving/implement/payload coordination
- Tele-operation
- Waypoint following
- Perimeter patrol
- Area coverage
- Multi-vehicle coordination
- Seamless mode switching



Automation Approach

- Standardized vehicle control and user interface
- Standardized vehicle automation hardware
- Communications and perception package tailored to the specific application.

Automation Kit Functions

- "X by wire" control for: brakes, steering, throttle, and transmission
- Relay on/off control and status monitor for ignition, lights, horn, and other accessories
- Engine status and RPM monitor
- Emergency brake (E-Brake) system
- Fail safe stored energy, software-independent, parallel system
- Embedded automotive processor controller
- Instant-on, safety rating certified running JAUS 3.2 software
- Robust software safety features
- E-stop under various conditions, poor communications, loss of motor control



Drive-by-Wire Kit

- Standard controller electronics and JAUS software
- Standard attachments and actuators to transmission, throttle, ignition, horn, lights



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