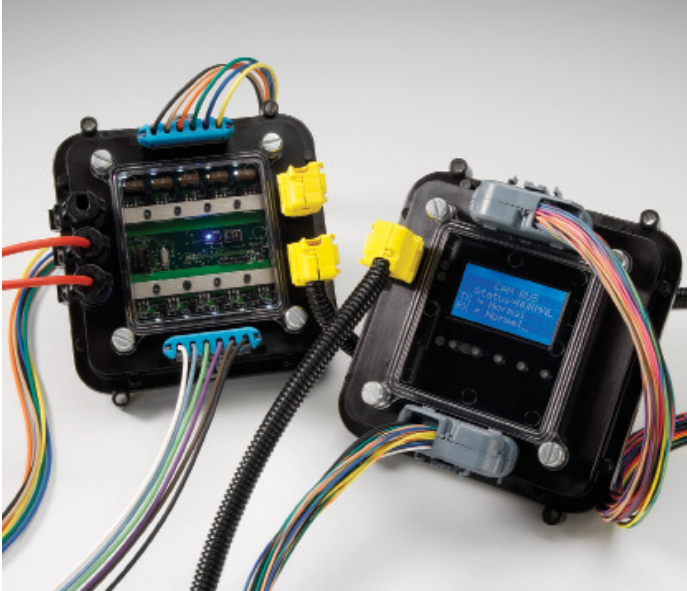


## ISIS™ 2-CELL STARTER KIT

Part Number: ISIS2BOXZ



### DESCRIPTION

Typical wiring harnesses can take up to 40 hours to install, with the new ISIS Intelligent Multiplexed System you can cut that time in half. Plus you don't have to have any sort of experience working with electrical systems to get it done. Just plug in the power cables, hook them up to your loads and the system tests itself to make sure everything is working.

If you have any problems just call our application engineering team to help solve your problem by trouble shooting your system and walking you through the process step by step to make sure that you've got everything properly installed.

On top of ease of installation, race enthusiast will love the weight savings gained using our system. Less weight means more speed, less fuel consumption and improved handling. Who wouldn't want that?

Tuners and restorers will love the flexibility of the system. Whether you choose to replace your current electrical system or lay an ISIS kit over an existing system, you can program up to 10 circuits per box to control any electrical function.

### SYSTEM FEATURES:

- Up to 25 different inputs on the MASTERCELL™ input unit (multiple inputs can control a single output)
- Up to 10 fuse protected outputs on the control unit. (each output rated at 25 amps. Single POWERCELL control unit can supply up to 100 Amps continuously.)
- Single MASTERCELL input unit can control up to 5 power control units with up to 50 outputs (additional POWERCELL control units sold separately).
- All mating electrical interfaces use top-of-the-line Delphi Packard sealed connectors
- MASTERCELL AND POWERCELL enclosures sealed with watertight gaskets for high performance in all driving conditions.
- All enclosures feature clear covers for easy system status checks and a high-tech look to show off your system.
- Standard inSIGHT™ diagnostic module allows for instant checks of all circuit inputs and output for proper function (see inSIGHT data sheet for more info)
- ISIS Heartbeat LEDs to indicate system connectivity and indicate output status
- MASTERCELL input unit rated to 85°C environment
- POWERCELL control unit rated to 125°C environment
- All plastics used in enclosures are UL 94V0. Bases are glass reinforced high-temperature nylon for strength and temperature resistance. Covers are high-temperature polycarbonate for visibility and strength.
- All wires have high-temperature TXL insulation



INTELLIGENT MULTIPLEX SYSTEM

### STANDARD NODE PROGRAMMING:

- Output 1: Left Turn Signal (self canceling)
- Output 2: Right Turn Signal (self canceling)
- Output 3: Headlights
- Output 4: Starter Solenoid
- Output 5: Brake Lights
- Output 6: Ignition
- Output 7: Open
- Output 8: Open
- Output 9: Open
- Output 10: Open

### EACH OUTPUT CAN BE CUSTOM PROGRAMMED TO:

- Track
- Toggle
- Delay
- Timed
- Soft-Start
- Pattern

Contact the factory for custom programming options.

### KIT INCLUDES:

- 1 – ISIS MASTERCELL™ input unit
- 1 – ISIS POWERCELL™ control unit with 10 outputs
- 1 – Input harness with sealed connector
- 2 – Output harnesses with sealed connectors
- 1 – ISISI Y-CAN cable with sealed connectors on both ends
- 2 – Power Input cables
- 1 – Dummy power connector
- 1 – Dummy input connector
- 1 – Dummy ISIS CAN connector
- 1 – Two Fuse MEGA® fuse kit for battery protection
- Installation Guide

### TECHNICAL SPECIFICATIONS:

#### General

- Processor technology: CMOS - 16bit Digital Signal Processor – RISC
- Communication protocols: Full CAN 2.0b - proprietary data protocol
- Maximum data rate on CAN bus: 1M bits/second
- Maximum length of CAN bus cable: 100 meters
- Maximum number of input/output nodes: 100's
- Maximum number of input nodes/ MASTERCELL™ input unit: 50 (expandable in groups of 50 with additional MASTERCELL units)
- In-vehicle programmable
- Standard node application library
- Enclosures and connectors sealed to IP67
- Standard Delphi Packard connectors & terminals
- All materials UL 94V0

### MASTERCELL™ INPUT UNIT:

- Optional interface protocols: J1939
- Maximum number of input nodes: 50 (expandable in groups of 50)
- Input node interface: input signal is closed to ground
- Input switching voltage / current: 5-V / 0.0005-A
- Analog input nodes: 2
- Maximum frequency of input state change: 50 Hz
- Maximum temperature: 85°C

### POWERCELL™ CONTROL UNIT:

- Dimensions: 2" x 6 7/16" x 7 3/16"
- Input voltage range: 6-14.2 VDC
- Maximum number of nodes: 10 (expandable in groups of 10 with additional POWERCELL units)
- Output node technology: MOSFET (up to 25 Amps)
- Output switch type: High-Side
- PWM nodes: 8
- Maximum Temperature: 125°C
- Built-in diagnostics status indicators on all output nodes