

# Smart Fuse Block Plus

**Smart Fuse Block Plus™** builds on the concept of Intellitec's popular **Smart Fuse Block™**. It locates all the power fusing and distribution at the "B" pillar and adds electronic switching. This concept offers easy installation and service.

In addition to all the customer pleasing features of the **Smart Fuse Block Plus™**, such as automatic shut off, interior light delay and low voltage shut down, the **Smart Fuse Block Plus™** adds the convenience of power switching to the block. This avoids the need of bringing any heavy power wires up to the switch panel. Instead, a simple, low current switch panel, with momentary push-push style switches, replaces the conventional rocker types. Also, this panel only requires three small gauge wires for connection.

The system also accommodates multiple remote switch panels which allow the passengers to control the lights and TVs.

All the output harnesses are connected with AMP Mate-N-Lok connectors to reduce installation time and errors.

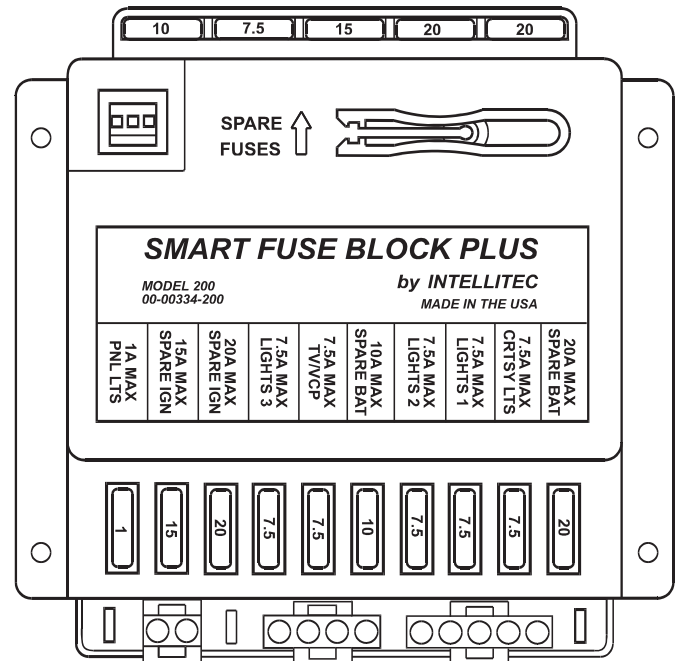
Combine the **Smart Fuse Block Plus™** with other Intellitec MONOPLEX™ modules such as the Sofa Control and Rear Fan Control, and you can create the exact system configuration that you want, from basic to all encompassing.

Following are the important customer pleasing features included in this system:



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Part Number 00-00334-200

**Automatic Interior Light Delay** - keeps the interior lights on for up to 12 seconds after closing the doors. They will go out immediately when the ignition is switched on. If the doors are left open, the lights will go out in twenty minutes.

**Automatic OFF with the Ignition** - the interior lights and TV/VCP turn off when the ignition switch is turned off.

**Load Operation without Keys** - allows the interior lights and TV/VCP to operate without the insecurity of having the key in the ignition.

**Automatic Timed OFF Function** - when the loads are operated with the ignition off, they will be automatically shut off, twenty minutes after they are turned on.

**Low Voltage Shut-Down** - when the loads are operated with the ignition off and the battery gets low, they are turned off in two minutes instead of the normal twenty minutes.

P/N 53-00334-200 Rev. A 091201

Specialty Vehicle Electronics Group

# Smart Fuse Block Plus

## How Does It Work?

The **Smart Fuse Block Plus™** provides fusing for all the converter added lights and TV equipment in a single module. By combining these functions in this fuse block, all the heavy load wires are kept away from the switch panels. The switch panel/s need only light gauge wires for connection. This allows a great deal of flexibility in the choice of switches and design of the panels, and makes installation easier and more flexible than with conventional switches.

The block has nine fuses to feed individual circuits in the van. Two of these fuses are fed from the battery to power loads such as the sofa and door locks. Two of these fuses are fed from the ignition to feed loads such as the rear fan. Five of these circuits are also controlled by relays that switch the loads. These relays are controlled by push buttons on a remote switch panel/s.

The loads are turned on and off by momentary presses of the buttons. In addition, when the loads are used with the ignition off, a timer turns them off in twenty minutes to prevent them from accidentally discharging the battery.

When a door is opened and closed, the Courtesy Light Timer will keep the Courtesy Lights and Lights 1 & 2 on for twelve seconds or until the ignition is turned on. If the doors are left opened, they will be turned off in twenty minutes. This will prevent the lights from discharging the battery if the doors are left open at a picnic, while cleaning out the van, or simply because the seat belt got in the way.

When the loads are used with the ignition off, a low voltage detection circuit monitors the battery voltage. If it should get too low, the twenty minute Load Timer is sped up to shut the loads off in two minutes.

## Specifications:

### Fuses:

F1	Spare Battery	20 Amps
F2	Courtesy Lights	7.5 Amps
F3	Lights 1	7.5 Amps
F4	Lights 2	7.5 Amps
F5	Spare Battery	10 Amps
F6	Television	7.5 Amps
F7	Lights 3	7.5 Amps
F8	Spare Ignition	20 Amps
F9	Spare Ignition	15 Amps
F10	Switch Panel Lights	1 Amp

**Standby Current:** Less than 4 Milliamps

**Ambient Temperature Range:** -40° to +85°

**Normal Input Voltage Range:** 10 to 18Volts

**Short Term Over Voltage Protection to:** +24 volts

**Reverse Voltage Protection To:** -300 volts



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