

# Havis Power Management

## ChargeGuard Auto Shut-Off Timer



### Protect your investment in vehicles, equipment, and people.

ChargeGuard is an easy to install auto shut-off timer that automatically turns mobile equipment on when you start the engine. When you turn the engine off, the equipment stays on for an adjustable period of time, then is automatically disabled.

When properly deployed, you can ensure your fleet never has another dead battery, at a very affordable price — cheaper than a single tow.

With ChargeGuard® Auto Shut-off Timer, equipment is always available, and you never have to remember to turn it on or off.



Two-way Radios



Video Cameras



Computers



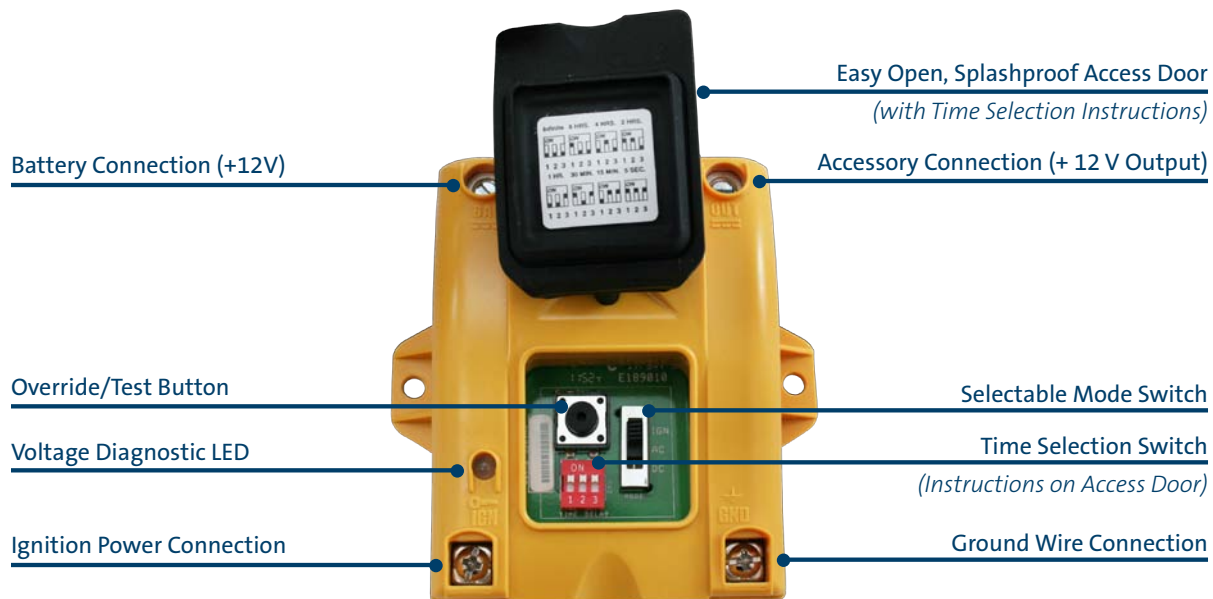
GPS



ChargeGuard Auto Shut-Off Timer on a Trunk Tray in a Chevy Caprice.

# Havis ChargeGuard Auto Shut-off Timer

## Vehicle Power Management System



### How ChargeGuard Auto Shut-off Timer Works:

- Automatically turns mobile equipment on when you start the engine
- When you turn the engine off, the equipment stays on from 5 seconds to infinity depending on the selected time delay setting
- Turns equipment off before pre-set time if voltage drops too low
- Diagnostic LED helps troubleshoot voltage problems

#### Features

- Easy-to-install, no power needed for setup
- Easy-to-set timeout delay switches
- Choice of sensing modes: Automatic Detection, Battery Sensing (DC Rise), or Ignition
- Override/test button provides 15 minutes of electronics power
- Voltage diagnostic LED indicates status with color/blink codes
- High (18 V) and low (11 V) voltage disconnect
- Reverse polarity protection

### What ChargeGuard Auto Shut-off Timer Delivers:

#### Higher Productivity

- Equipment is on when you want it on – leave unattended with no worry
- Reduces down time caused by service calls

#### Lower Maintenance Cost

- Prevents battery wear and tear
- Saves battery replacement costs
- Reduces service calls and aids in troubleshooting
- Reduces fuel cost by not needing engine on to run equipment

### Specifications (Part # CG-X)

- Operating voltage (normal): 13.8 V DC
- Low voltage disconnect: 11 V DC
- High voltage disconnect: 18 V DC
- Stand-by current: 5mA
- Operating current: 80 mA
- Load current rating: 30 A
- Minimum on delay: 5 sec
- Selectable timeout delay: 5 sec - 8 hr & Infinity
- Length: 3.8" (9.6 cm)
- Width: 3.7" (9.4 cm)
- Weight: 4.5 oz (0.28 lbs)



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