

# ***Dakota Digital***

## **PAC-1200 RETAINED ACCESSORY WITH DOME LIGHT CONTROL**

### **OPERATION AND FEATURES**

#### **Dome light feature**

The dome light feature will quickly fade the dome light on whenever a door is opened or the key is turned off. The dome light is kept on after the door is closed for the delay time selected by the switches. After this delay, the dome will slowly fade out. If the doors are left open for an extended period of time, the dome light will automatically shut off to reduce battery drain.

#### **Retained accessory power feature**

The retained accessory power feature allows the accessories to be operated for up to 20 minutes after the key is turned off. These accessories may include the radio, power windows or any other accessory placed under the module's control. If a door is opened before the 20 minutes the power to the accessories is removed.

#### **Low battery monitoring**

This module also has internal low battery voltage monitoring. If the battery voltage should drop too low during retained accessory operation, power is removed from the accessories to reduce the battery drain.

#### **Override switch**

An override switch is provided to allow the dome light to manually be disabled. If the button is pressed when the dome light is on, the dome light will shut off and stay off until either the button is pressed again or the key has been turned to the on position resetting the dome override condition.

#### **Remote door lock trigger input**

A positive trigger input is provided to turn the dome light on with an input from remote door lock module. When this input is given a +12V pulse, the dome light is turned on for the set dome delay. If no other action occurs, the dome will fade out after the delay.

### **INSTALLATION**

#### **Selection of driver's door only option:**

The PAC-1200 has the option of shutting off the accessories with the opening of any door, or only with the opening of the driver's door. This option is selected during installation by the way the module is wired into the vehicle.

For the driver's door only option:

Wire **ONLY** the driver's door switch to the driver's door terminal on the controller. Wire the other switches to the pass door terminal. Wire the dome light to the dome terminal.

To allow any door to shut off the accessories:

Wire all door switches to the driver's door terminal. Leave the passenger door terminal empty. Wire the dome light to the dome terminal.

**Installation notes:**

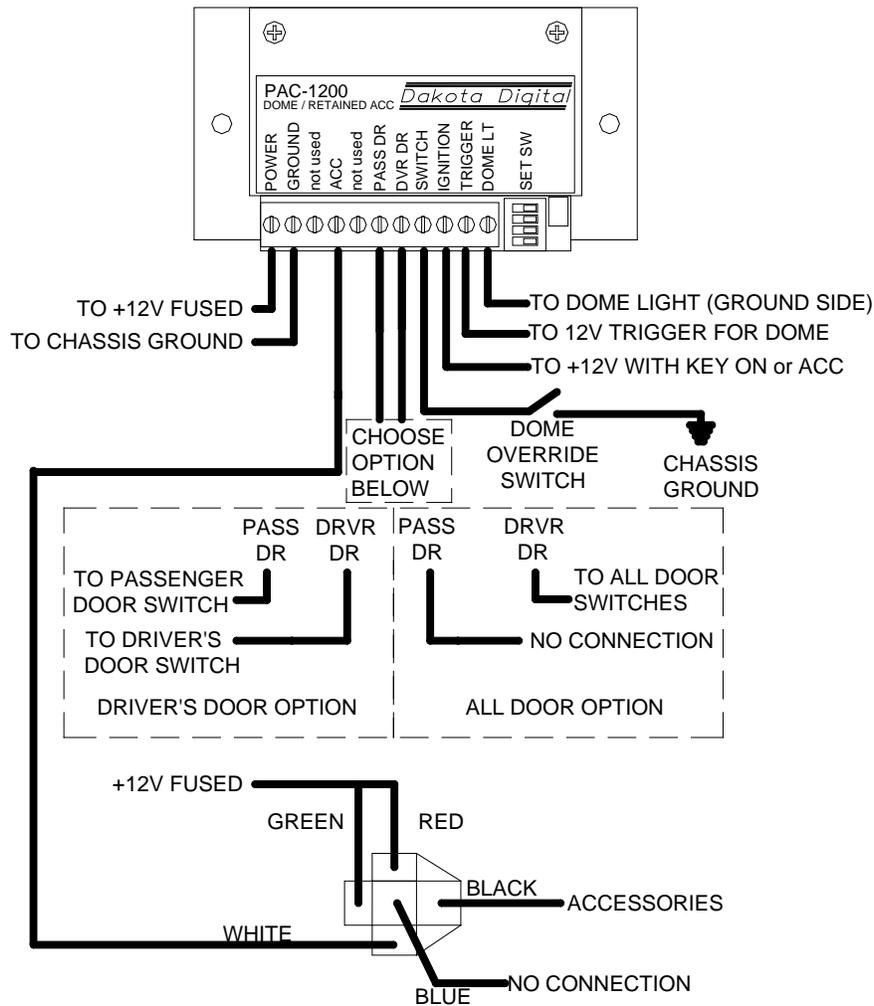
**Accessories powered by the PAC-1200 relay MUST be removed from their original connection before being connected to the relay. The PAC-1200 will not function properly if this is not done and damage may occur to the device or the vehicle's electrical system.**

The wire between the dome light and the door switches must be cut for the dome light feature to function properly. The dome light wire should only be connected to the PAC-1200 unit. Door switch inputs are ground triggered.

The GREEN and RED wires of the relay and the POWER terminal on the PAC-1200 should be connected, through a fuse, to a constant +12V circuit. There needs to be a constant 12 volts on these wires or the PAC-1200 will not function.

The IGNITION terminal should be connected to a circuit that has 12 volts only when the key is on or in accessory. This circuit can not be powered by the PAC-1200's relay. This will cause the PAC-1200 to malfunction.

If 12V trigger for remote door locks is not used, leave TRIGGER terminal empty.



**SINGLE RELAY  
FOR ACCESSORIES**

## SETUP

The PAC-1200 uses 2 DIP switches to allow the user to customize the dome feature. These switches set the dome delay according to the chart below. The switches are located on the lower right corner of the unit.



SW1	SW2	Setting
OFF	OFF	Dome delay off.
ON	OFF	Dome delay of 15 seconds
OFF	ON	Dome delay of 30 seconds
ON	ON	Dome delay of 45 seconds

The delay switches can be set at any time. New settings will not go into effect, however, until the controller has updated these settings internally from the switches. To update the settings, turn the key on then off. The dome delay will now be updated.

## TROUBLESHOOTING TIPS

PROBLEM	CAUSE	SOLUTION
Accessory only stays on for a short time after key is turned off	Poor ground on module	Reconnect to better ground
	Battery marginally low	Check battery and charging system
Accessory doesn't come on after key is off	Shorted door switch	Check wires for short to ground
	Dome light switch on	Turn off dome light switch
	Battery is very low	Check battery and charging system
Accessory doesn't come on at all, even with key on.	Blown fuse on +12V constant circuit	Check accessory circuit for shorts and replace fuse.
	IGNITION terminal wire broken/not connected	Check wire for breaks and proper connection. Replace broken wire or reconnect yellow wire to +12V key on
	Poor ground on module	Reconnect to better ground
Accessory doesn't shut off when door opened (key off)	Door switch not connected to ground or wire broken	Check ground on door switch. Replace broken wire to switch
	IGNITION wire being fed by accessory relay	Separate all accessory connections to relay from the rest of vehicle circuitry move IGNITION wire to location with +12V only with key on.
Accessories shut off when passenger door is opened. (for driver's door off option).	Wire between driver's door switch still connected to dome light circuit	Cut wire between dome light and driver's door switch. Only wire to driver's door switch should be brown wire (for driver's door shut off option)
	Driver's door switch and passenger door switches still connected	Cut wire between driver's door and passenger door switches.

## TROUBLESHOOTING TIPS (continued)

PROBLEM	CAUSE	SOLUTION
Dome doesn't fad on and stays on much longer than set delay	Dome light still connected to door switches.	Cut wire between dome light and door switches.
Dome always on with key on.	Dash dome light switch on Passenger or driver's door input is shorted to ground	Turn off dome light switch Check wire for short and replace/reroute wire to fix short
Dome doesn't delay after door close, even though delay selected on switches	Switch settings need to be updated internally	Cycle key to on then back off.

## **SERVICE AND REPAIR**

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

**Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number.** Package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include the RMA number on the package, and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

## **Dakota Digital 24 Month Warranty**

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced at Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover removal or reinstallation of the product. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. Any action for breach of any warranty hereunder, including any implied warranty of merchantability, must be brought within a period of 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

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