

# **Dakota Digital**

PAC-1100

## RETAINED ACCESSORY POWER MODULE

### **Operation**

The retained accessory power module takes control of any accessory driven by its relay. When the key is turned on, the relay is closed providing power to the accessories. This is no different than stock "key on" operation. It is when the key is turned off that the operation differs from stock.

The relay remains on for up to 20 minutes after the key is off, allowing the radio to keep playing or the power windows to be rolled up. The accessories can be shut off before the 20 minutes is up by simply opening any door (or just the driver's door. See below to set option). If, during the 20 minutes, the battery voltage drops too low, the accessories are shut off to help prevent the battery from going dead.

### **Installation**

This module has the option to be wired into the vehicle so that the accessories will shut off when ANY door is opened or when ONLY the driver's door is opened. If a passenger door is opened with the device wired for driver's door only, the accessories will continue to run. The two wiring methods are listed below.

#### **Wiring for any door shut off** (see any door trigger wiring diagram)

##### Module wiring

White	To white wire on relay assembly
Yellow	To +12V with key on
Black	To ground
Red	+12V constant (fused)
Brown	To any door switch *
Grey	Not connected *

\*different for drivers door only wiring

##### Relay wiring

Green	To +12V constant (fused)
Red	To +12V constant (fused)
Blue	Not connected
Black	To accessories to be powered by module
White	To white wire on module

#### **Wiring differences for DRIVER'S DOOR ONLY**

(see driver's door trigger wiring diagram)

##### Module wiring

Brown	To driver's door switch
Grey	To Dome light (switch side)

Remaining wiring is the same as for any door shut off above.

### Important notes

In order for the driver's door only option to properly work, the vehicle wiring between the driver's door switch and the dome light must be cut. The wiring to the passenger switches should not be changed. When wiring for driver's door only, the only wire attached to the driver's door switch should be the brown wire from the retained accessory module.

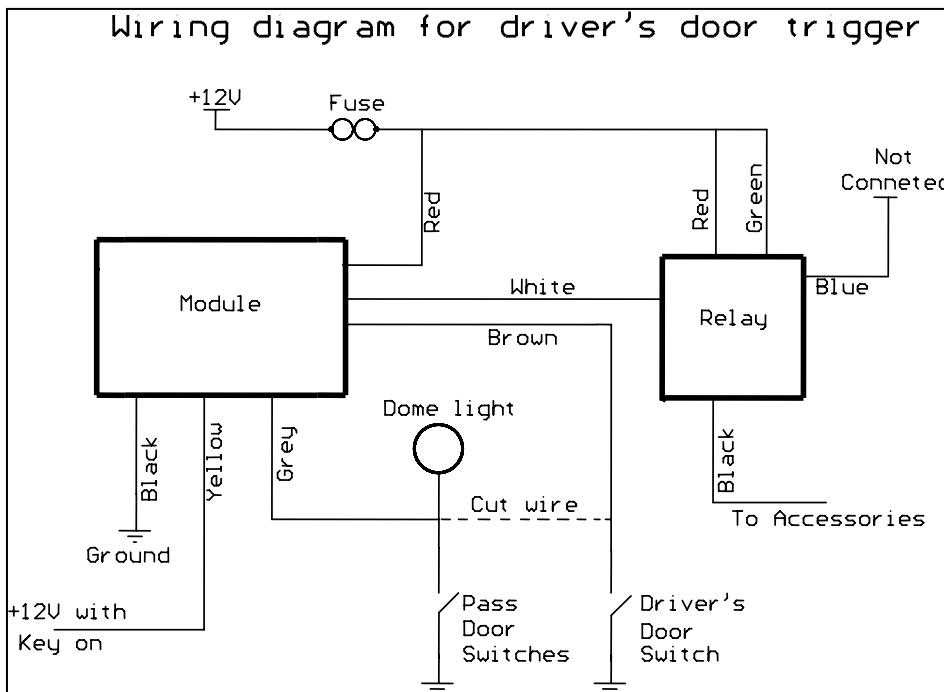
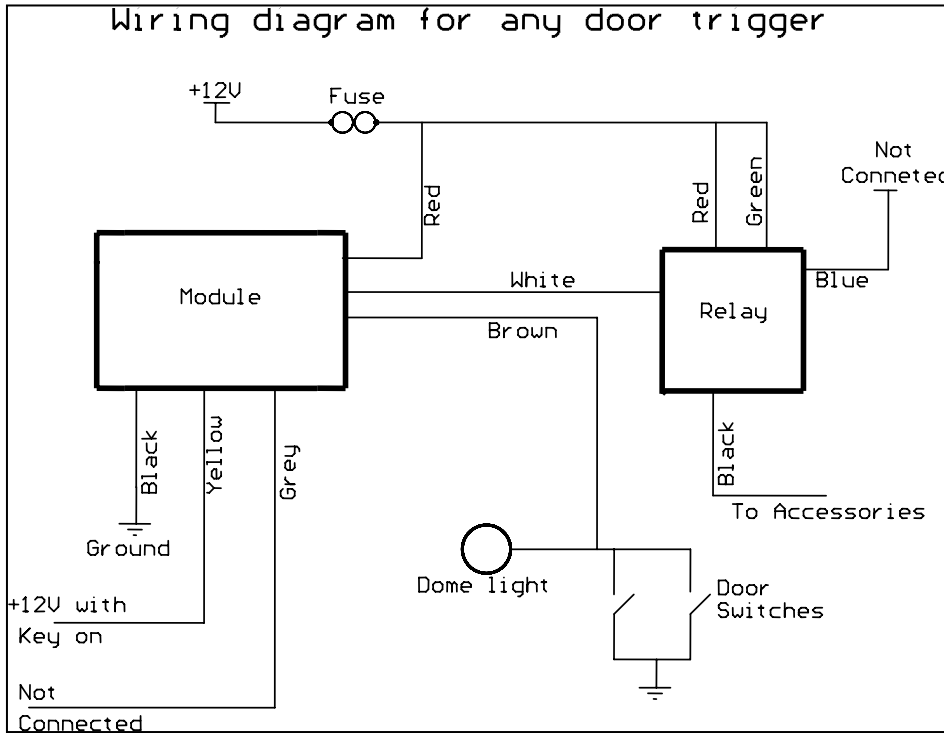
The red wire of the retained accessory module and the red and green wires of the relay must be have +12V (fed through a fuse) even when the key is off or the retained accessory unit will not work properly.

**Circuits powered by this module should only get power from the relay. Connecting an accessory to the relay, without first removing it from its original connection could cause the device to malfunction, and may prevent it from shutting off.**

### Troubleshooting tips

<u>Problem</u>	<u>Cause</u>	<u>Solution</u>
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
-----	Shorted door switch	Check wires for short to ground
Accessory doesn't come on after key is off	Dome light switch on	Turn off dome light switch
-----	Battery is very low	Check battery and charging system
-----	Ignition switch (yellow) wire broken, not connected	Check wire for breaks and proper connection. Replace broken wire or reconnect yellow wire to +12V key on
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.
-----	Door switch not connected to ground or wire broken	Check ground on door switch. Replace broken wire to switch
Accessory doesn't shut off when door opened (key off)	Ignition (yellow) wire being fed by accessory relay	Separate all accessory connections to relay from the rest of vehicle circuitry move yellow wire to location with +12V only with key on.
-----	Grey wire not connected to dome light	Reconnect grey wire to dome light circuitry
Dome light will not turn on for driver's door (for driver's door off option)	-----	-----
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)
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## Wiring diagrams for the Retained Accessory Power module



## WARRANTY

All DAKOTA DIGITAL instruments are warranted free of defects in material and workmanship for 2 years from the date of purchase. In the event of a problem with one of our products within the warranty period, DAKOTA DIGITAL will replace or repair the instrument at no charge. (The decision to repair or replace is solely that of DAKOTA DIGITAL. DAKOTA DIGITAL is not responsible for shipping costs of products returned under warranty or for labor charges for product installation and removal.) This warranty becomes invalid if the product is misused, altered or installed incorrectly.

**For warranty coverage, you must first call to receive an RMA#.** Ship the product transportation prepaid via UPS or insured Parcel Post. A copy of the original invoice or dated bill of sale along with a description of the defect is also required. Make sure that the RMA number is clearly visible on the outside of the package as well as inside on the paper work.

The above warranties, both expressed and implied, do not cover damages caused by improper installation, misuse, abuse, fire, unauthorized modifications, floods or acts of God, or reimbursement of customer or shop time. The extent of the warranty is limited only to the product and does not cover any loss or damage to vehicle, equipment, or non-DAKOTA DIGITAL products.

## 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 units.

Should you ever need to send the unit back for repairs, please 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 your RMA#, a complete description of the problem, your full name and address (street address preferred), and a telephone number where you can be reached during the day. **A return authorization number (RMA#) for products being return for repair is required.** Do not send any money. We will bill you for the repair charges.

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