Standard Features of BlackJax 4

- ❑ ***Lifetime Warranty***
- ❑ ***New optional tachless mode for ease of installation***
- ❑ ***High Output Siren***
- ❑ ***PlainView 2 Coded Programming Switch***
- ❑ ***Pulsing ignition interrupt to slowly stop the car***
- ❑ ***Two points of immobilization***
- ❑ ***Programmable passive immobilization***
- ❑ ***Programmable siren/horn output***
- ❑ ***Programmable siren duration***

Passenger Compartment Connections

Control Unit

1. Select an area behind the dash to mount the control unit, but do not permanently affix it until all wiring and testing is complete.
2. You will route wires from this point, leaving slack in the wiring for ease of service.

Ignition Immobilizer

1. Locate the ignition switch wireloom under the dash.
2. Use a voltmeter to locate the wire that is 0 volts when the ignition is "OFF" and carries +12v throughout BOTH the starting/cranking and engine running cycles. With the engine running, cut this wire. The car's engine should stop running.
3. Connect the WHITE/BROWN wire to the key side of the ignition wire and the GREEN/BLUE wire to the coil side.

Starter Immobilizer

The starter immobilizer ensures the engine will not crank when BlackJax anti-carjack mode is active.

1. Locate the ignition switch wireloom under the dash.
2. Use a voltmeter to locate the one wire that carries +12v during the cranking cycle ONLY. This is the starter wire.
3. Cut the starter wire, then try to start the engine. If the starter does not crank, you have found the correct wire.
4. Connect the WHITE/RED to the key side and the other WHITE/RED to the starter side.

LED Status Indicator

Select a prominent location on the dash or console visible through all windows. Discuss placement with the owner.

1. Verify there is adequate space to accommodate the LED, then drill a 5/16" (8mm) hole and route the wires through it.
2. Mate the LED connectors to the VIOLET and BLACK wire connectors as shown in the diagram on page 3.
3. Press the LED into place.

PlainView 2 Coded Valet Switch

The PlainView II switch does not need to be hidden. Rather, it should be mounted on the dashboard or console within easy and convenient reach of the driver. Discuss placement of the switch with the vehicle owner prior to installation.

1. Verify there is adequate space to accommodate the switch. Then drill a 5/16" mounting hole.
2. Route the wires and connectors through the hole and secure the switch.
3. Mate the switch connector to the small connector on the wireloom, noting the wire colors.

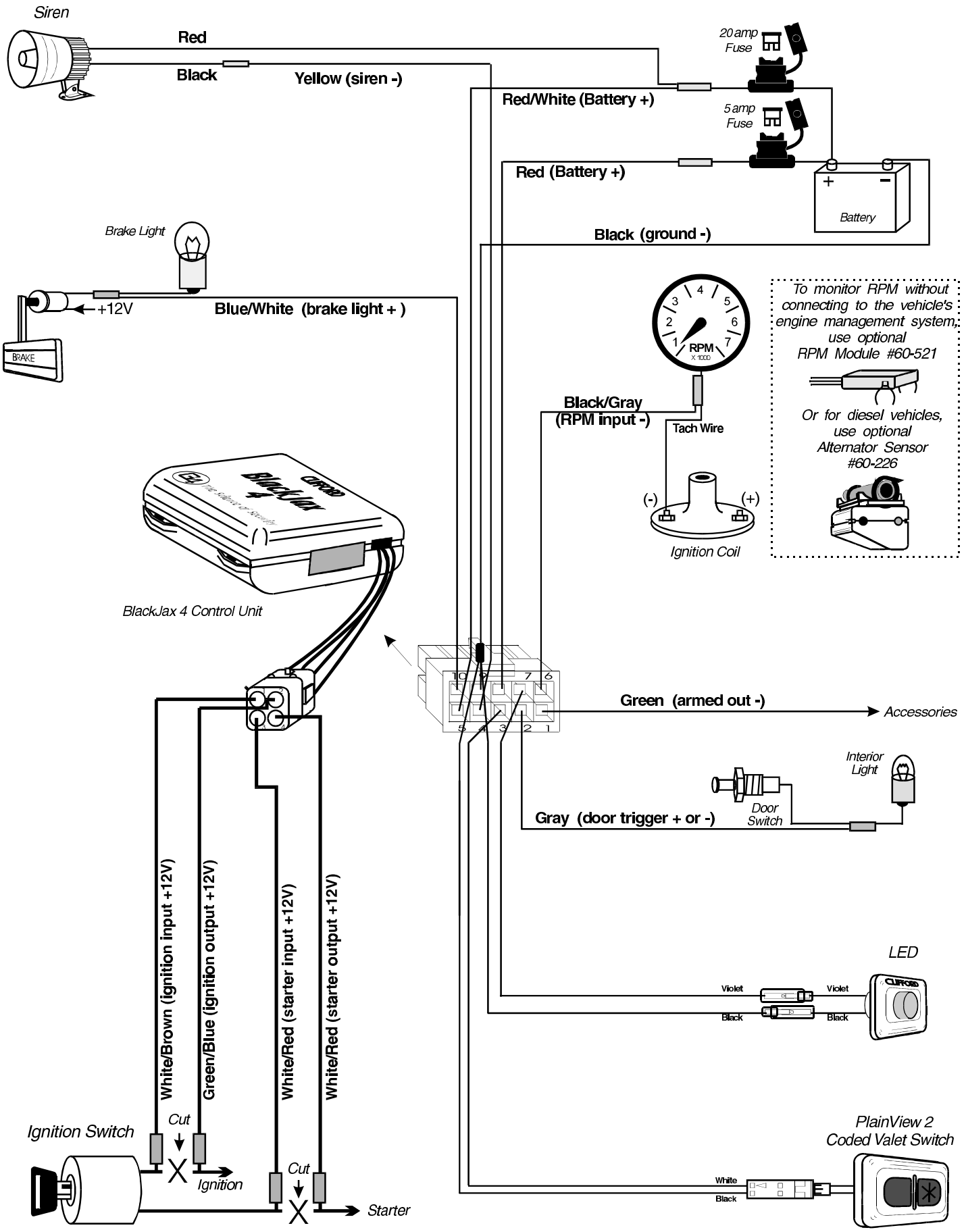
Driver's Door Trigger

Refer to the **Door Trigger** section in this binder. This connection is necessary to initiate the BlackJax countdown.

Brake Lights

For safety reasons, BlackJax is wired to the brake light rather than the parking lights. Also, pressing the brake after the door has been opened/closed starts the BlackJax countdown. When BlackJax is activated, the flashing brake lights will warn motorists that are driving behind the soon-to-be-stalled vehicle.

1. Turn the ignition on and press the brake pedal to make sure the brake light turns on.
2. Connect the black lead of the voltmeter to ground and set the dial to DC volt.
3. Probe the wires at the brake light switch with the voltmeter lead. The voltmeter should read +12v when you press the brake pedal; 0 volts when released.
4. Connect the BLUE/WHITE wire to the brake wire.


Siren
Red
Black
Yellow (siren -)
20 amp Fuse
Red/White (Battery +)
5 amp Fuse
Red (Battery +)
Battery
Black (ground -)
Brake Light
+12V
Blue/White (brake light +)
BRAKE
RPM
X 1000
To monitor RPM without connecting to the vehicle's engine management system, use optional RPM Module #60-521
Black/Gray (RPM input -)
Tach Wire
Or for diesel vehicles, use optional Alternator Sensor #60-226
(-)
(+)
Ignition Coil
BlackJax 4 Control Unit
Green (armed out -)
Accessories
Interior Light
Door Switch
Gray (door trigger + or -)
White/Brown (ignition input +12V)
Green/Blue (ignition output +12V)
White/Red (starter input +12V)
White/Red (starter output +12V)
LED
Violet
Violet
Black
Black
Ignition Switch
Cut
Ignition
Cut
Starter
PlainView 2 Coded Valet Switch
White
Black

Engine Compartment Connections

Siren

Mount the siren in the engine compartment away from moving or heat-producing components. If possible, mount the siren on the opposite side of the exhaust manifold. The siren must not be accessible or visible from outside or under the vehicle. Point the siren downward to avoid water collection and enhance sound projection.

1. Mount the siren using all three sheet metal screws supplied.
2. Connect the siren's BLACK wire to the control unit YELLOW wire.
3. Connect the siren's RED wire to the control unit RED wire.

Optional Horn Connection

If you choose not to use the standard siren, the yellow wire can be programmed as a horn output and can be connected to the vehicle's horn. This output is negative and can provide up to 2 amps.

RPM Monitoring

See the **RPM Monitoring Wiring** section in this binder. This connection is only necessary if you do not want BlackJax 4 to start it's countdown if the door is opened at high RPM's.

Final Wiring Connections

Connect the RED wire to the 5amp fuseholder.

Connect the RED/WHITE wire to the 20amp fuseholder.

Attach the two fuseholders to the battery positive cable clamp.

Attach the BLACK wire to the battery negative cable clamp.

RPM Programming Procedure

Note: This MANDATORY programming step must be completed if the tach is connected for BlackJax to operate properly.

1. **Drive** the vehicle to a nearby open area and allow the engine to warm-up until the RPMs drop to the normal idle speed.
2. With the engine still running, place the transmission in **PARK** (or **NEUTRAL** if the vehicle has a manual transmission).
3. Enter installer-programming mode (turn the ignition ON, enter the factory preset valet code by pressing the ✶ button two times and the unmarked button once, then press and hold the ✶ button for 20 seconds - you'll hear one chirp after the first three seconds and three chirps once installer-programming mode has been accessed).
4. Press the **unmarked** button of the PlainView 2 Switch once. After a three-second pause, the system will sound one chirp to confirm column one selection (see the *Installer-Programmable Features* section on page 20).
5. Press the ✶ button of the PlainView 2 Switch five times (you will hear a chirp each time you press the button) to select row five. After a two-second pause, you will hear two chirps to confirm idle RPM has been set (if you hear just one chirp, check the connection of the BLACK/GRAY wire, then repeats steps 1 - 5).
6. Turn the ignition OFF.

System Check/Troubleshooting

1. Start the car.
2. Open and close the door.
3. Press/release the brake.
   - Wait 25 seconds. You should hear 5 chirps. If not, go to step 1 below.
   - The brake lights will begin flashing. If not, go to step 2 below.
   - 30 seconds later, the siren should sound and car's engine should slowly die. If not, go to step 3 below.
   - Once the car is disabled, enter the valet code to disarm. If the system does not disarm, go to step 4 below.

Step 1 - BlackJax not initializing

1. Check the door trigger connection and polarity.
2. Check the brake trigger.

System Check/Troubleshooting

Step 2 - Brake lights not flashing

1. Check brake light connection.
2. Check to make sure that the 20 amp fuse on the RED/WHITE wire is OK.

Step 3 - Car's engine does not die.

1. Unplug the large 4-pin Molex connector while the car's engine is running. If it dies, replace the CPU. If the car stays running, the proper ignition wire was not interrupted. Recheck the connections for ignition.

Step 4 - Valet code does not work.

1. Test the valet code and switch operation. Enter programming mode using the valet switch. If the system enters programming mode, the switch and valet code are in operating order. If not, perform the following tests:
2. Check the WHITE/BROWN wire, ignition input is on and verify that it shows +12V when the ignition is turned ON and +0V when the ignition is OFF. If not, refer to the sections *Ignition Immoblizer* and *Starter Immobilizer* on page 1.
3. Test the WHITE wire at the control unit connector. It should rest at 5 volts. When pressing the marked side, it should read 3 volts and when pressing the unmarked side it should read 0 volts. If any reading is incorrect, move the voltmeter to the BLACK wire at the valet switch. It should read 0 volts at rest, 0 volts when the marked side marked is pressed, and 0 volts when the unmarked side is pressed. If the BLACK wire tests correctly and the WHITE wire does not, replace the switch. If the BLACK wire tests incorrectly, repair the ground circuit. If both wires test correctly, then the valet code has been changed. Use the CliffNet Wizard Pro to reset the valet code.

Programmable Features

BlackJax 4 comes from the factory with its features preprogrammed as noted in bold letters in the following tables. Some features can be programmed by the installer or the user, others can only be programmed by the installer. There are two tables provided which define the user-programmable and installer-programmable features.

Using the CliffordWizard Pro Installation Software

The programmable features can be accessed using the CliffordWizard Pro software/hardware package. CliffordWizard Pro provides access to all installer and user-programmable features through a user-friendly, graphical user interface. Because CliffordWizard Pro is Windows™-compatible, most operations can be accomplished by simply pointing and clicking a mouse. Complicated programming charts and lengthy programming sequences are virtually eliminated, making the programming process much easier, much faster, and even a little fun. Please refer to the *CliffordWizard Pro User's Guide* for more programming information if you are using the CliffordWizard. Otherwise, refer to the tables provided in the following sections.

Programming the User-Selectable Features Using the PlainView 2 Switch

1. Write down the column (across) number and row (down) number of the feature(s) you wish to program.
2. Turn the ignition to the "ON" position or start the engine.
3. Enter the factory preset valet/programming code of "2" by pressing the ✶ button twice, and then pressing the unmarked button once.
4. After entering the code, press and hold the ✶ for about 3 seconds until you hear one siren chirp and the LED turns on to acknowledge program mode entry. The system is now in the "Feature Select" position for User-Programmable Features.
5. Select the feature column: Press the unmarked button once. Pause. You will then hear one chirp.
6. Within five seconds, select the feature row: Press and release the ✶ button the same number of times as the feature's row number. You'll hear a chirp each time you press the unmarked side to help you count.
7. If there is a NOTE for the selected feature, perform the actions noted.
8. Pause. You will hear either one or two chirps: Two chirps = ON, one chirp = OFF.
9. You can select another feature, or you can exit program mode:
   a. To start over, repeat step 6 within the next five seconds (after five seconds, three chirps indicate that the system is now back in the "Feature Select" position).
   b. To select a different feature column, repeat step 5.
   c. To exit program mode, turn the ignition off (you'll hear three chirps and the LED will turn off to indicate exit of program mode), or wait 60 seconds and the system will automatically exit program mode.

It may sound a little complicated, but it really isn't. Briefly, here is all you do: while the ignition is "ON," choose the feature you want to change and enter program mode. Select the feature's column and row, wait for the on/off chirp confirmation, then turn off the ignition. *That's it!*

User-Programmable Features (1Chirp=OFF, 2 Chirps=ON)

Feature Select	Unmarked 1
✶ 1	NOT USED
✶ 2	NOT USED
✶ 3	NOT USED
✶ 4	**Siren Duration** (**30**/60/90) (**1 chirp**/2 chirps/3 chirps)
✶ 5	NOT USED
✶ 6	Passive Immobilization (On/**Off**)
✶ 7	Valet Code **SHOULD ONLY BE PROGRAMMED BY THE VEHICLE OWNER**

Installer-Programmable Features (1Chirp=OFF, 2 Chirps=ON)

To access the installer-programmable features, follow the programming steps 1-4 on the previous page and then continue to hold the ✶ button for 10 seconds until you hear three chirps.

Feature Select	Unmarked 1
✶ 1	NOT USED
✶ 2	NOT USED
✶ 3	NOT USED
✶ 4	Door Trigger Polarity (**Negative**/Positive)
✶ 5	Program RPM See ***RPM Programming***
✶ 6	Auxiliary Siren Output (Constant/**Pulsed**) (1 chirp/**2 chirps**)