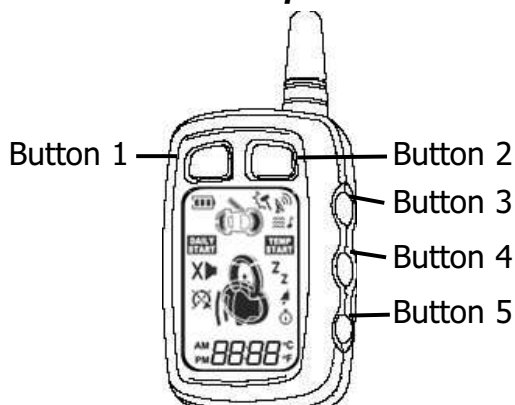**SCYTEK**

ELECTRONICS

G777,G27
A777,A20

VEHICLE SECURITY SYSTEM
PRODUCT MANUAL

2-way LCD Remote Transmitter Description

Page 1

Button 1 Arms and Locks the system and when held for 5 seconds, activates the system's Panic feature. Button 1 also locks the doors when the system is in Valet Mode.

Button 2 Disarms and Unlocks the system. Pressing Button 2 again operates the Passenger Unlock feature (*if installed*). *Button* 2 also unlocks the doors when the system is in Valet Mode.

Button 3 Activates the Auxiliary 1 output normally used for trunk release (*note trunk icon on button*).

Button 4 Activates the Remote Start feature.

Button 5 is the Confirmation, Programming and the Page Shift button. Quickly pressing button 5 will activate the Page 2 function. Pressing button 5 for 2 seconds activates the system's confirmation feature which will then display the current status of the system (*armed, disarmed, engine running, etc.*).

Page 2

Button 1 Silently Arms/Locks the system.

Button 2 Silently Disarms/Unlocks the system.

Button 3 Activates the Auxiliary 2 output.

Button 4 Aux 3 or Factory Rearm output.

Button 5 Not Implemented. **Page 3 & 4** are used as **Page 1 & 2** for second car operation
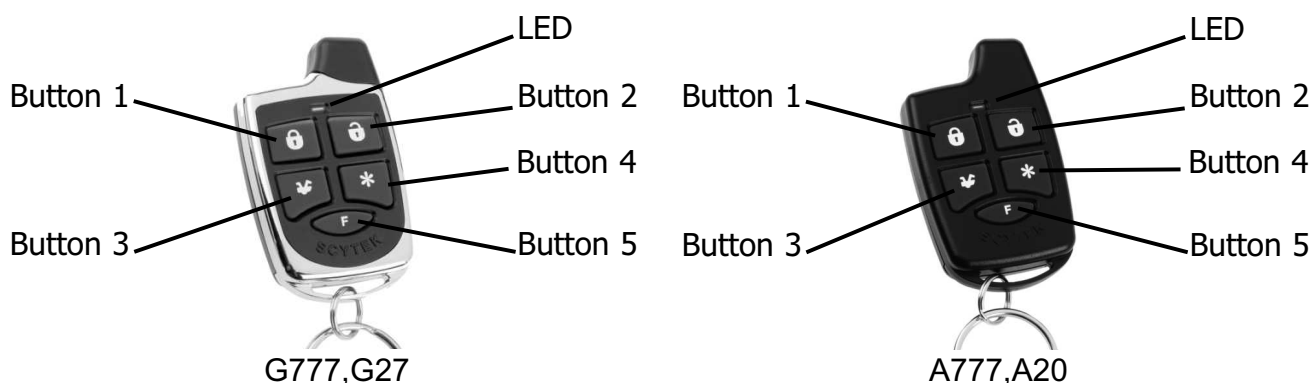
LCD Transmitter Battery Replacement

Your Pager Remote Transmitter uses a 1.5 volt AAA alkaline battery, which will require replacement in time. Depending on the amount of use, the battery may last up to 3 months before it needs replacement. When the battery needs replacing, the system's operating range will decrease, the LCD display will show only one of three bars in the battery icon, or the display and sounds may suddenly stop and start as the battery voltage drops below minimum.

In order to change the battery, first slide the battery door locking pin to the side. Carefully slide the battery cover downward until it is free. While replacing the battery make sure that the positive and negative terminals are positioned correctly, then carefully reassemble the transmitter case.

Remote Transmitter Description

LED   LED

Button 1   Button 2   Button 1   Button 2

Button 4   Button 4

Button 3   Button 5   Button 3   Button 5

G777,G27   A777,A20

The G777,G27,A777,A20 is supplied with 5-button Remote Transmitter used to control system operations.

Button 1 Arms and Locks* the system and when held for 5 seconds, activates the system's Panic feature. *Button* 1 also locks the doors when the system is in Valet Mode.

Button 2 Disarms and Unlocks* the system. Pressing Button 2 again operates the Passenger Unlock feature (if installed). Button 2 also unlocks the doors when the system is in Valet Mode.

Button 3 Activates the Auxiliary 1 output. This output will remain on for as long as the button is pressed.

Button 4 Activates the Auxiliary 2 output. This output will remain on for as long as the button is pressed.

Button 5 is the Page *Shift* button. The Page Shift button will change the function of Buttons 1 through 4 each time it is pressed, allowing access to additional features or multiple car operation. Each time the Shift Button is pressed, the LED on the transmitter will illuminate and the transmitter functions will shift to the next page, allowing access to another set of features. Once shifted to another page (there are 4 pages total), the transmitter will remain on that page for 10 seconds or until a button is pressed, then return to page 1. Each time a transmitter button is pressed and held, the LED will flash a number of times to indicate from which page it is transmitting. Under normal operation, only pages 1 and 2 are used. Pages 3 and 4 are usually used for Two Car Operation.

Shift then Button 1 Arms and Locks* the system silently.

Shift then Button 2 Disarms and Unlocks* the system silently.

* **If the Optional Keyless Entry Feature is installed.**

Adding/Replacing One-Way Transmitters

To replace lost or stolen transmitters or to add additional transmitters into the system, have all desired transmitters ready and follow the steps below.

Note: Up to 4 one-way transmitters can be programmed to operate the system. Any previously stored transmitter code will be erased if it is not programed within the following sequence.

To program the transmitter(s):

1. Turn on the ignition key On, Off, On, Off, and back On.
   - The siren will chirp 3 times.
2. Press and hold the Override switch for 5 seconds.
   - The siren will chirp 5 times.
   - The LED will illuminate.
3. Press Button 1 on the first transmitter.
   - The siren will chirp once.
4. Repeat step 3 for each transmitter (up to 4).
5. Turn off the ignition key.

Adding/Replacing 2-way LCD Transmitters (2 LCD remotes maximum)

When adding an optional 2-way LCD transmitter to the system, follow these steps:

1. Turn on the ignition key On, Off, On, Off, On, Off, and back On. (Key On 4 times)
   - The siren will chirp 4 times.
2. Press and hold the Override switch for 5 seconds.
   - The siren will chirp 4 times.
   - The LED will illuminate.
3. Press Button 1 on the first transmitter, then on the second transmitter.
   - The siren will chirp once for each transmitter learned.
4. Turn off the ignition key.

Battery Replacement

Your Remote Transmitter uses battery type 2016 for G777,G27 and 23A for A777,A20 which will require replacement in time. Depending on the amount of use, the battery may last up to 24 months or more before it needs replacement.

When the battery needs replacing, the system's operating range will decrease or the transmitter LED may not be as bright.

In order to change the battery, first remove 2 screws from the back of the transmitter and separate the top and bottom halves of the case.

While replacing the battery make sure that the positive and negative terminals are positioned correctly, then carefully reassemble the transmitter case.

Remote Arming

The system monitors 4 independent areas (***zones***) while armed: doors, hood/trunk, shock sensor and optional sensor input.

To Arm the System:

1. Turn off the ignition.
2. Press Button 1.
   - The siren will chirp once.*
   - The doors will lock.
   - The parking lights will flash once.
   - The LED will turn on, to indicate the starter defeat is activated.
3. 5 seconds after Arming:
   - The LED will start blinking to indicate that the doors and hood/trunk inputs are being monitored.

   * During Arming, if the system detects a bad sensor or an open zone, the system will chirp 4 additional times and ignore that input, but keep all other areas protected.

Once Armed, the alarm will trigger when any of the following occurs:

   - **The doors are opened.**
   - **The hood or trunk is opened.**
   - **The shock sensor detects an impact to the vehicle.**
   - **The optional sensor is disturbed.**

When the alarm triggers, the siren will sound, the horn will honk, and the parking lights will flash. If the system is triggered by the doors, or hood/trunk, the system will alarm for 45 seconds. If triggered by the shock sensor or optional sensor input, the system will alarm for 30 seconds.

In the event the alarm is triggered and remains triggered continuously by the same sensor or input during a single arming cycle, that sensor or input will be automatically bypassed until the next time the system is armed.

If the Shock Sensor detects a light impact to the vehicle, or the Optional Sensor's warn-away zone is disturbed, the siren will chirp 5 times as a warning indication.

Remote Disarming

To Disarm the System:

Press Button 2

   - The siren will chirp twice.*
   - The doors will unlock.
   - The parking lights will flash twice and remain on for 30sec..
   - The dome light will turn on.**
   - The LED will turn off.

   * During Disarming, if the system was triggered while away from the vehicle, the siren will chirp 3 times, the parking lights will flash 3 times, and the LED will flash to indicate triggered zone. See *Tamper Alert* for zone listing.

   ** If the optional Dome Light Activation Feature is installed.

Tamper Alert

If the system was triggered while away, the LED will flash to indicate which zone triggered the system after disarming and turning on the ignition. The LED indication will repeat 8 times.

LED Flashes:

1 flash = **internal shock sensor**
2 flashes = **shock sensor**
3 flashes = **not used**
4 flashes = **door**
5 flashes = **trunk**
10 flashes = **main power interrupt or system was reset**

example: flash-flash-pause-flash-flash-pause = shock sensor

Silent Arming/Disarming

The system can be programmed to operate without Arm and Disarm chirp indications. When programmed for full-time silent operation, the siren will sound only when the system is triggered.

The system is also capable of temporary silent operation if desired. Pressing the Shift button before Arming or Disarming the system will bypass the chirp confirmations and allow one-time silent operation.

Note: The open zone warning chirps will not be bypassed when the system is Armed or Disarmed silently.

Passive Arming

When programmed for the optional Passive Arming feature, the system arms itself automatically, each time the ignition is turned off and all of the doors, hood, and trunk are closed.

To start the Passive Arming Process:

1. Turn off the ignition.
2. Open the door and exit the vehicle.
    · Once all doors are closed and the dome light is off, the LED will begin flashing rapidly. Parking Lights will flash twice three seconds after passive arming cycle began.
3. After 30 seconds,
    · The siren will chirp.
    · The parking lights will flash.
    · The doors will lock.*
    · The status LED will begin flashing.
4. The system is now armed.

* If the Passive Locking feature is selected.

Panic Mode

In the event of an emergency, the transmitter's remote Panic feature can be used to instantly trigger the alarm.

To activate the Panic Mode:
1. Press and hold Button 1 for 5 seconds.
   · The alarm will sound.
   · The parking lights will flash.
   · The doors will unlock* allowing access to the vehicle.
2. Press Button 2 to stop Panic Mode.

   * If the ignition is on when the Panic feature is activated, the doors will lock for personal safety.

Emergency Override

If the transmitter becomes lost or inoperable, the system can still be disarmed using the following procedure. Before beginning this procedure be sure to have the ignition key ready and know the location of the override switch.

To Emergency Override the system:
1. Unlock the door using the key.
2. Enter the vehicle.
   · The system will trigger and the siren will sound.
3. Turn the ignition key on.
4. Press and hold the override switch until the system disarms.
5. The vehicle will now be able to start.

Optional Coded Emergency Override

As an extra measure of security, the system is equipped with an optional Coded Emergency Override feature. Once an Emergency Override Code is chosen and programmed during installation, the system can no longer be disarmed using the standard override procedure.

To Emergency Override the system using the Code:
1. Follow steps 1-3 above.
2. Press the override switch a number of times equal to the Disarm code, and continue holding for 10 seconds on the last press.
   · The system will disarm. If the code is entered incorrectly, turn off the ignition and begin again.

To set the Emergency Override Code:
1. Turn on ignition.
2. Within 5 seconds, press the valet switch 5 times.
   · The siren will provide one long chirp, indicating that you have entered Programming.
3. Press the valet switch 4 times.
   · The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press Button 3 on the transmitter.

Entering System Programming

To enter System Programming:

1. Turn on ignition.
2. Within 5 seconds, press the valet switch 5 times.
   · The siren will provide three chirps, indicating that you have entered Programming.
3. Press the valet switch the number times equal to the System Option you want to change.
   · The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press the transmitter button corresponding to the desired operating mode for that System Option.
   · The siren will chirp to indicate the setting.

1 chirp	=	Button 1
2 chirps	=	Button 2
3 chirps	=	Button 3

5. When you are finished, turn off the ignition to save the changes.

Default Reset

Following this procedure will set all Programmable System Options to factory default settings.

1. Enter System Programming.
2. Press Transmitter Button 3.
   · The siren will chirp 6 times indicating that the reset signal was received.
   · All Programmable System Options are now set to factory default settings.
   · The Valet Mode is off.
3. Turn off ignition.

Programmable System Options

The following is a description of the programming options. Some program branches control more than one option, and may require accessing a particular branch number twice in order to program all desired features.

1. **Horn Chirps with Arm & Disarm.** Selects one of two modes: Normal, Horn Chirps

   Normal. When selected, the horn will honk only when the alarm is triggered.

   Horn Chirps. When selected, the horn will provide the arm/disarmed trigger indications, allowing the siren installation to be skipped.

2. **Arm Mode.** Selects one of two modes: Manual Arming or Passive Arming.

3. **Passive Door Locking.** Selects whether or not the system will automatically lock the doors during Passive Arming.

4. **Ignition Controlled Locks/ Override Code Set.** This dual program branch sets Ignition Controlled Locking and programs the optional Emergency Override Code. If Lock Only is selected, the doors will not automatically unlock when the ignition is turned off.

   Override Code Set. Changes the Emergency Override Code for a higher level of security (see page 7).

5. **Ignition Door Unlocking.** Selects whether or not the system automatically unlocks the doors when the ignition is turned off. The Ignition Door Locking feature may be programmed to unlock all doors or the driver's door only. If driver's door only is selected, the optional Passenger Unlock feature must be connected. (*See Two Stage Door Lock Diagrams*)

6. **Ignore Open Door Report.** Bypasses the open zone warning chirps for vehicles equipped with a residual dome light circuit that remains ON for a period of time after closing the door.

7. **Auto Rearming Mode.** When selected, the system will automatically re-arm and lock 30 seconds after it has been disarmed regardless if a door is open or closed.

8. **Door Unlock Pulse.** Selects between one pulse or two pulse operation for the door unlock output. Vehicles that require two pulses on the proper wire to unlock the doors can be interfaced directly without

9. **Warn-Away Pager Report.** When Enabled, Warn-Away report will be sent to the pager. If Disabled no Warn-Away report will be sent to the pager.

10. **Disarm with Auxiliary 1**. When selected, activating the Auxiliary 1 output (usually used to open the trunk) will disarm the alarm.

11. **Door Lock Pulse Length.** Selects between a 1, 3 or 0.1 second output for door locking and unlocking. the use of relays or any additional circuitry by programming the system for double unlock pulse. Program to 3 seconds for vehicles equipped with vacuum door locking systems.

12. **Anti-Carjack Type.** Selects one of three modes for Anti-Carjacking: Active, Passive, or Full-Time.
    <u>Manual.</u> When selected, pressing Button 4 will automatically engage the Anti-Carjacking feature.
    <u>Passive.</u> When selected, the Anti-Carjacking feature will activate whenever a door is opened while the ignition is on.<u>Full-Time.</u> When selected, the Anti-Carjacking feature will automatically activate each time the ignition is turned on.

13. **Anti-Carjack Mode.** Enables Anti-Carjacking protection.

14. **Horn Honk Output.** Selects the output, when activated, to be pulsing or constant.

15. **Aux 2 Auto Activate with Arm.** When selected, the Auxiliary 2 output will activate when the system is armed. This feature can be used to roll-up windows, close sunroofs, activate accessories, etc.

16. **Auxiliary 1 Mode.** Selects from momentary, 10 second timed, or latched operation for Auxiliary 1.

    Momentary operation provides an output for as long as the transmitter button is pressed.

    Timed operation provides an output that turns on for 10 seconds each time the transmitter button is Latched operation provides an output that turns on when the transmitter button is pressed and remains on until the transmitter button is pressed again.

17. **Auxiliary 2 Mode.** Selects from momentary, 10 second timed, or latched operation for Auxiliary 2.

    Momentary operation provides an output for as long as the transmitter button is pressed.pressed. If the button is pressed again during the 30 seconds, the output will turn off.

    Timed operation provides an output that turns on for 10 seconds each time the transmitter button is pressed. If the button is pressed again during the 30 seconds, the output will turn off.

    Latched operation provides an output that turns on when the transmitter button is pressed and remains on until the transmitter button is pressed again.

18. **Auxillary 2 Output Selectable.** Selects either Auxillary 2 output, starter output or ignition output.

19. **Extended Parking Lights.** When selected, the parking lights will remain ON for 30 seconds after disarming the system.

20. **Data Bus Input Triggers.** When enabled, the system will read all available triggers from the bypass module. If disabled the system triggers must be hardwired.

21. **Data Bus Interface Mode.** Selects between iData, Fortin, or Fortin RF kit bypass modules.

22. **Starter Confirmation Chirps.** When enabled system chirps before remote stater activated, when disabled, no chirps will sound upon remote start.

23. **Lock After Start.** this dual program branch selects lock after start, and enables push to start.

   The doors will automatically lock after remote starting.

   Push to Start enable, when selected.

24. **Lock After Shutdown**. this dual program branch selects unlock after shutdown, and disables push to start.

   Unlock after Shutdown ,when selected On, the doors will automatically unlock after engine shutdown.

   Push to Start disable, when selected.

25. **Unlock Before Start.** when enabled, system will unlock doors prior attempting to start the engine.

26. **Engine Run Time.** Selects between 15 or 25 minutes for the remote start run cycle.

27. **Automatic Start Mode.** Selects between every two hours or every one hour for the automatic engine starting feature.

28. **Crank Time.** Selects between normal, extended and super extended cranking time for tech-less mode

29. **Engine Sense Mode.** Selects between Monitor off or data bus

30. **Engine Type.** Selects between Gas engine or Diesel Engine

   Gas Engine, sets the engine type for gasoline, remote starter will crank the engine

   2 seconds after receiving remote start command.

   Diesel Engine, sets the engine type for Diesel, remote starter will crank the engine

   10 seconds after receiving remote start command.

31. **Turbo Mode.** When enabled.

32. **Factory Alarm Upgrade.** When enabled system will arm and disarm using the factory remote

   Enabled with Validation, factory remote will disarm only when the Factory disarm validation input is connected to the horn or parking lights. (this input must be activated within a second upon unlock by the factory remote).

33. **Validation/Brake Input Mode.** Select between Validation and Brake input

Note: Brake Input mode can be selected only if Factory Alarm Upgrade Mode is disabled .

Programming Branch Table

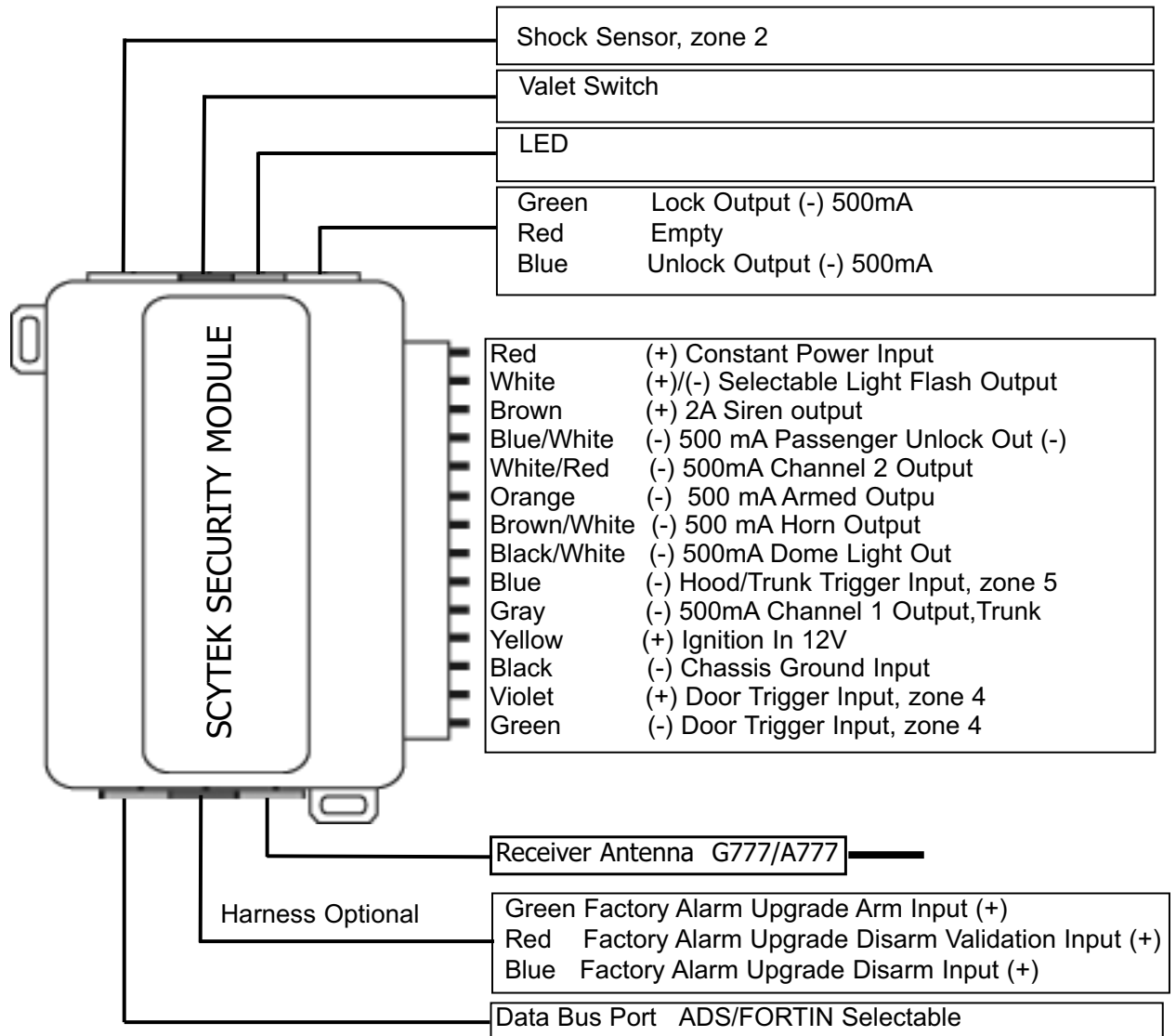| Branch	Feature	Button 1 (default)	Button 2	Button 3
1	Horn Chirps w/ Arm&Disarm	Normal	Chirps Disabled	Horn Chirps
2	Arm Mode	Manual Arming	Passive Arming	Door Trigger N.Close
3	Passive Door Locking	Disable	Enable	Door Trigger N.Open
4	Ignition Controlled Locks	On	Off	Set Override Code
5	Ignition Controlled Unlock	All	Driver Only	Disabled
6	Ignore Open Door Report	Report	Ignore	
7	Auto Rearming	Disable	Enable	
8	Door Unlock Pulse	Single	Double	Pulse Ignition with unlock
9	Warnaway Report	Enable	Disable	
10	Disarm with Aux 1	Disable	Enable	
11	Door Lock Pulse Length	1 second	3 seconds	0.1 second
12	Anti-Carjack Type	Manual	Passive	Full-time
13	Anti-Carjack Mode	Disable	Enable	
14	Horn Honk Chirp	Normal	Louder	Loudest
15	Aux 2 Activate on Arm	Disable	Enable	
16	Aux 1 Mode	Pulsed	Timed	Latched
17	Aux 2 Mode	Pulsed	Timed	Latched
18	Aux 2 Type	Channel Output	Starter Output	Ignition Output
19	Extended Parking Lights	On	Off	
20	Databus Input Triggers	Enable	Disable	
21	Data Bus Interface Mode	iDataLink	Fortin	Fortin RF Kit Enable
22	Starter Confirmation Chirps	Disable	Enable	
23	Lock After Start	On	Off	Push to Start Enable
24	Lock After Shutdown	On	Off	Push to Start Disable
25	Unlock Before Start	Disable	Enable	
26	Engine Run Timer	15 Minutes	25 Minutes	
27	Automatic Start Mode	2 Hours	1 Hour	
28	Crank Time	Normal	Extended	Super Extended
29	Engine Sense Mode	Monitor Off	Data Bus	
30	Engine Type	Gas	Diesel	
31	Turbo Mode	Off	On	
32	Factory Alarm Upgrade	Disabled	Enable with validation	Enable
33	Validation/Brake Input Mode	Validation	Brake	

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation

Wiring Diagram

	Shock Sensor, zone 2
	Valet Switch
	LED

Green	Lock Output (-) 500mA	
Red	Empty	
Blue	Unlock Output (-) 500mA	

SCYTEK SECURITY MODULE

Red	(+) Constant Power Input
White	(+)/(-) Selectable Light Flash Output
Brown	(+) 2A Siren output
Blue/White	(-) 500 mA Passenger Unlock Out (-)
White/Red	(-) 500mA Channel 2 Output
Orange	(-) 500 mA Armed Outpu
Brown/White	(-) 500 mA Horn Output
Black/White	(-) 500mA Dome Light Out
Blue	(-) Hood/Trunk Trigger Input, zone 5
Gray	(-) 500mA Channel 1 Output,Trunk
Yellow	(+) Ignition In 12V
Black	(-) Chassis Ground Input
Violet	(+) Door Trigger Input, zone 4
Green	(-) Door Trigger Input, zone 4

	Receiver Antenna G777/A777

Harness Optional

Green	Factory Alarm Upgrade Arm Input (+)
Red	Factory Alarm Upgrade Disarm Validation Input (+)
Blue	Factory Alarm Upgrade Disarm Input (+)

Data Bus Port   ADS/FORTIN Selectable

G777,G27
A777,A20 Vehicle Security Series

For Detailed User & Installation Manual Refer To
www.scytek.net