

Tornado²

*Remote Controlled
Vehicle Security System*

Owner's Manual



Standard Features

- ☑ **Lifetime Warranty** — We guarantee the operation of the control unit and remote controls for as long as you own your car (see the enclosed warranty card for details).
- ☑ **A Pair of 2-Button/3-Channel Remote Controls** — These remotes allow you to command your system from up to 100 feet away.
- ☑ **User-Friendly Programming** — All programmable features are accomplished with a few flicks of the valet switch.
- ☑ **Starter Disable Capability** — For the ultimate in security, the system can disable the vehicle starter whenever the system is armed (requires an optional relay).
- ☑ **LED Status Indicator** — A highly luminescent LED indicates alarm status and identifies any entry point violations.
- ☑ **High Power Siren** — Loud, attention-getting siren to alert of an intrusion attempt.
- ☑ **Multi-Car Control** — With one remote you can control up to three vehicles equipped with Avital Tornado² security systems.
- ☑ **Remote Control Code Learning** — You can easily add up to four Avital remote controls to your system.
- ☑ **Instant Remote Control Code Deletion** — Removes the code of a lost or stolen remote control to prevent unauthorized alarm operation.
- ☑ **Electronic Scan Prevention (ESP)** — ESP blocks electronic scanner codes to prevent disarming of your vehicle by anyone but you.
- ☑ **Remote Panic with Safety Locks™** — In a threatening situation, you can activate the siren, flash the parking lights and unlock the doors for immediate entry into your vehicle (requires optional relays).
- ☑ **Interior Light Illumination Capability** — When remotely disarmed, the alarm system turns on the interior lights for 30 seconds or until the ignition key is turned on (requires an optional relay).

- ☑ **Multi-Zone Protection** — Offers full perimeter security with separate trigger connections for the doors, hood and trunk (may require optional switches).
- ☑ **Previous Intrusion Alert** — Audibly warns you if the alarm was triggered while you were away.
- ☑ **Specific Intrusion Identification** — The flashing LED identifies which zone was triggered in your absence.
- ☑ **Automatic Malfunction Override** — Automatically bypasses a malfunctioning trigger or sensor, then monitors all other points to continue protecting your vehicle.
- ☑ **User Programmable Active/Passive Arming** — The alarm system can be programmed to arm with the remote control or arm itself automatically.
- ☑ **Remote Silent Arm/Disarm** — At any time, you can *silently* arm or disarm your system by pressing buttons 1 & 2 on your remote control simultaneously.
- ☑ **Protected Valet Mode** — Prevents passive arming while your vehicle is serviced or valet parked, allowing you to maintain possession of your remote control.
- ☑ **User Programmable Long-Term Chirp Muting** — This feature allows you to program the siren chirps off completely until you decide to restore them.
- ☑ **Automatic System Check** — Automatically tests all triggers and sensors every time you remotely arm your system.
- ☑ **Visual Confirmations** — Your vehicle's parking lights will flash on and off to confirm remote arming, disarming and alarm activation.
- ☑ **Remote Control Door Lock Capability** — Allows you to lock and unlock your doors without using your key (may require optional relays).
- ☑ **User Programmable Passive Door Locking** — Allows you to program the system to automatically lock the doors every time the alarm passively arms.

- ☑ **Channel 2 Accessory Output** — Allows you to add a remote controlled optional accessory such as a remote engine starter, window roll-up, trunk release or fuel filler door release.
- ☑ **Alarm State Memory** — Automatically returns your system to its last state if the battery is disconnected and later reconnected.
- ☑ **Zone¹® Impact Sensor (optional)** — Provides precision detection of intrusion-related vibrations and impacts.

Operating Instructions

- **Remote Control** — Each of the pair of remote controls is a miniature radio transmitter with a typical range of up to 100 feet. Obstructions, radio interference, cellular transmissions or a weak remote control battery may reduce the range or interrupt transmission. (If the system does not immediately respond, release and press the button again. This works better than holding the button down.) The second remote can be used by a second driver, or kept as a spare. (*Note: AviGlo™ remote controls are not compatible with the Tornado².*)

- **To Arm The System** — The alarm can be programmed for active or passive arming. Active arming means the alarm can only be armed by the remote control. Passive arming means the alarm will automatically arm itself. See the "Programming Table for Alarm Features" on page 8.
 - **Active Arming.** Press remote button #1 once. The siren will chirp twice, the parking lights will flash twice, the doors will lock, the LED will flash slowly and the starter will be disabled.*
 - **Passive Arming.** Turn the ignition key off, exit the vehicle and close the doors. When the interior lights turn off, the LED will flash rapidly for 30 seconds to indicate the system is passive arming. The LED will then flash slowly to indicate the system is armed and the starter is disabled.* (At any time during passive arming, you may actively arm the alarm.)

- **To Disarm the System** — Press remote button #1 for 1-2 seconds. The siren will chirp once, the parking lights will flash once, the doors will unlock, the interior lights will turn on (if the optional interior light illumination relay was installed), the LED will turn off and the starter will be enabled.*

- **To Silently Arm or Disarm the System** — Press remote buttons #1 and #2 at the same time.

** If the optional starter disable was installed.*

- **Silent Arm Indications.** The parking lights will flash twice, the doors will lock, the starter will be disabled* and the LED will flash slowly.
- **Silent Disarm Indications.** The parking lights will flash once, the doors will unlock, the starter will be enabled* and the LED will turn off.
- **Interior Light Illumination Capability** — When the alarm system is remotely disarmed, the vehicle's interior light(s) will turn on for 30 seconds or until the ignition key is turned on (requires an optional relay).
- **To Activate an Accessory** — Press remote button #2 for 1-2 seconds to activate an optional accessory such as trunk release, remote engine starter or a remote control garage door opener.
- **Valet Switch** — The valet switch is a small hidden toggle switch that allows you to program many features of the alarm system and prevent passive arming. In the event of a lost or stolen remote control, you can also use this switch to bypass (shut off) the alarm system.

BE SURE TO ASK YOUR DEALER TO SHOW YOU WHERE THE VALET SWITCH IS LOCATED

If passive arming is turned on, you should put your system in Valet Mode when your car is being serviced by mechanics, car wash personnel or driven by valet attendants. While in Valet Mode, all alarm functions are bypassed to prevent undesired or accidental arming.

■ **To Turn on Valet Mode**

1. Turn your ignition key to the "ON" position or start the vehicle.
2. Flick the valet switch to the "ON" position.
3. The LED will turn on solid red to indicate the alarm is in Valet Mode.

■ **To Turn off Valet Mode**

1. Turn your ignition key to the "ON" position or start the vehicle.
2. Flick the valet switch to the "OFF" position,
3. The LED will turn off to indicate the alarm is no longer in Valet Mode.

** If the optional starter disable was installed.*

■ **User Programmable Passive Door Locking** — The system will not automatically lock the doors when the alarm passively arms to prevent the keys and remote from accidentally being locked in the vehicle. If you prefer, you can easily program the alarm to automatically lock the doors every time the alarm passively arms. See the “Programming Table for Alarm Features” on page 8.

■ **To Activate Remote Panic** — Press and hold button #1 for 3-4 seconds. The siren will sound continually and the parking lights will flash on and off. If the ignition key is off, the doors will unlock. If the ignition key is on, the doors will lock. To deactivate, press button #1 once (may require additional relays).

■ **LED Status Indicator** — The LED on your vehicle’s dashboard or center console will inform you of the system status.

LED	Status
Off	System is disarmed
On solid	In valet mode
Slow flash	System is armed
Flashing in cycles	See specific intrusion identification

■ **Previous Intrusion Alert** — If the vehicle had been tampered with and the alarm has been triggered, the siren will chirp 3 times upon remote disarm instead of the usual 1 chirp.

■ **Specific Intrusion Identification** — If the alarm had been triggered in your absence, the siren will chirp 3 times upon remote disarm (*Previous Intrusion Alert*). When you enter the vehicle and turn on the ignition, the LED will flash in cycles to specifically identify which zone has triggered the alarm.

LED	Triggered
One Flash...One Flash...	Impact sensor
Two Flash...Two Flash...	Hood trunk trigger
Three Flash...Three Flash...	Door trigger

- **Automatic Malfunction Override** — In the event of a faulty sensor or alarm input trigger zone, the alarm, when remotely armed, will alert you by a series of chirps and light flashes.
- **Instant Remote Control Code Deletion** — In the event of a lost or stolen remote control, all remote controls can be erased from memory to prevent unauthorized alarm operation. See the "Programming Table for Remote Controls" on page 9.
- **Remote Control Code Learning** — The alarm can be programmed to accept as many as four separate remote controls. See the "Programming Table for Remote Controls" on page 9.
- **Alarm State Memory** — If your car's battery is disconnected and later reconnected, the system will automatically return to its last state before power was removed, whether it was armed, disarmed or in the valet mode. So if a mechanic disconnects the battery while the alarm is disarmed or in the valet mode, he won't trigger the alarm when he reconnects the battery. Yet if a thief removes power while the alarm is armed, and reconnects it, the alarm will instantly sound, the parking lights will flash and the starter will be disabled.*
- **How to Interpret the Chirps and Parking Light Flashes** — When you press the remote control buttons, the system will respond with chirps (unless you have the chirp muting feature turned on or the system is in Valet Mode) and flashes of the parking lights to indicate the system status. *An explanation of these chirp/flash acknowledgments is as follows:*

Number of chirps and flashes	Meaning
1	Disarming of the alarm
2	Arming of the alarm
2 and then 4	Armed and there is a sensor malfunction (automatically bypassed)
3	Disarmed and there was an intrusion attempt
4	Armed and there is a trigger malfunction (automatically bypassed)

** If the optional starter disable was installed.*

Programming Alarm System Features

All programmable alarm features are accomplished by turning the ignition key on (or starting the vehicle) and flicking the valet switch on and off a preset number of times.

1. Remove the alarm from Valet Mode. Programming cannot be accessed while the alarm is in Valet Mode, indicated by the LED on solid red.
2. Select the feature you wish to program from the "Programming Table for Alarm Features." **Note the number of chirps.**
3. Turn the ignition key to the "ON" position.
4. Within 10 seconds, begin flicking the valet switch on and off. The siren will chirp one time each time you flick the switch on then off.
5. Continue flicking the switch on and off until you reach the number of chirps associated with your chosen feature.

NOTE: Stop on the chirp.

6. After a 3 second pause, you will hear 1 or 2 chirps to confirm that you have changed the setting of that feature.
7. Turn the ignition key off.
8. Repeat steps 1-7 for any other feature you wish to program.

Programming Table for Alarm Features

<i>Feature</i>	<i>Factory Setting</i>	<i># of Chirps</i>	<i>Secondary Action</i>
Passive/Active Arming	Passive	4	Wait 3 seconds, the siren chirps once for active or twice for passive.
Passive Door Locking	OFF	5	Wait 3 seconds, the siren chirps once for OFF or twice for ON.
Remote Arming Siren Chirps	ON	6	Wait 3 seconds, the siren chirps once for OFF or twice for ON.

Programming Your Remote Controls

The Tornado² allows the user to add new remote controls in one step, delete lost or stolen remote controls or rearrange the factory preset remote control configuration.

All remote control programming features are accomplished by turning the ignition key on (or starting the vehicle) and flicking the valet switch on and off a preset number of times.

1. Remove the alarm from Valet Mode. Programming cannot be accessed while the alarm is in Valet Mode, indicated by the alarm LED on solid red.
2. Select the feature you wish to program from the "Programming Table for Remote Controls." **Note the number of chirps.**
3. Turn the ignition key to the "ON" position.
4. Within 10 seconds, begin flicking the valet switch on and off. The siren will chirp one time each time you flick the switch on then off.
5. Continue flicking the valet switch on and off until you reach the number of chirps associated with your chosen feature.

NOTE: Stop on the chirp.

6. Follow the "Secondary Action."
7. Turn the ignition key off.
8. Repeat steps 1-7 for any other feature you wish to program.

Programming Table for Remote Controls

<i>Feature</i>	<i>Factory Setting</i>	<i># of Chirps</i>	<i>Secondary Action</i>
Arm/Disarm/ Remote Panic	Channel 1	8	Press any remote control button you choose to operate this feature. Siren will chirp once for confirmation.
Accessory (-) Output	Channel 2	9	Press any remote control button you choose to operate this feature. Siren will chirp twice for confirmation.
Silent Arm/Disarm	Channel 3	10	Press any remote control button you choose to operate this feature. Siren will chirp 3 times for confirmation.
All Channel Learn	—	11	Press button #1. The siren will chirp 4 times. Remote control will operate at factory preset order.
Instant Code Deletion	—	12	Wait 3 seconds. The siren will chirp twice. All remote controls are erased from memory.



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