AviStart 6000

Remote Engine Starter &
Vehicle Security System

Owner's Manual

AVITAL

AviStart 6000 Owner's Manual

⚠ WARNING ⚠

! Always exercise caution and common sense when operating your AviStart system.

! This product is intended for vehicles with fuel-injection and automatic transmissions only. NEVER attempt to remote start a vehicle with a manual (stick shift) transmission. Serious injury may occur with improper use.

! NEVER attempt to remote start the engine while anyone (including pets) is in the vehicle.

! NEVER attempt to remote start the engine while the vehicle is in an enclosed area without sufficient ventilation.

! NEVER attempt to remote start the engine while the keys are in the ignition.

! Always be sure the gearshift selector is in "Park" and the emergency brake is on before attempting to remote start the vehicle.

! Keep your AviStart remote controls out of the reach of children.

! Whenever the vehicle is being serviced or valet parked, place the system in Protected Valet Mode to prevent accidental or unauthorized remote starting. See "Protected Valet Mode" on page 6.

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AviStart 6000

Congratulations! You have just purchased the AviStart 6000, a remote engine starter and security system manufactured by Avital Technologies, Inc. You are about to experience the convenience and luxury of being able to start your vehicle engine from the comfort of your home, office, department store or other remote location.

To benefit fully from the capabilities of your AviStart system, we encourage you to read the Owner's Manual thoroughly before using the system. If you have any problems or questions regarding your AviStart system, consult the dealer from whom you purchased this product. To locate an authorized Avital dealer, contact Avital Technologies directly at 1-800-253-0334 (toll-free within the U.S.) or 1-847-215-2233.

Lifetime Warranty

Avital guarantees the operation of your AviStart control unit and remote controls for as long as you own your car. (Please refer to your Lifetime Limited Warranty Card for complete information.) Make sure that you receive your warranty card from your dealer, complete the required information and mail the registration portion to Avital Technologies. You should retain the top portion of the warranty card for your records.

Remote Controls

Included with your AviStart system are two AviGlo™ 4-button/9-channel remote controls. Once exposed to light, the AviGlo remote control buttons will glow, making the buttons visible in the dark.

The remote control (remote) is a miniature transmitter powered by a small +12 volt battery. The RangeMaster™ super-heterodyne receiver (installed in your vehicle) allows your remote to command your system from up to ¼ mile away. Obstructions, electrical or radio interference, weather conditions, window tint or a weak battery can reduce this range. Your remote is the key to your AviStart system and can be used to arm and disarm your alarm, lock and unlock your doors, "pop" your trunk, start your engine and control optional accessories.

The AviStart system can accept up to four Avital remote controls. Additional remote controls and remote control batteries can be purchased from any authorized Avital dealer, or by calling Avital Technologies toll-free at 1-800-253-0334 (within the U.S.) or 1-847-215-2233.

Stealth Coding™ Technology

Stealth Coding technology offers the most advanced protection available against "code-grabbing" devices which thieves may use to record the digital code transmitted by your remote control. When you leave the area, thieves can then play back the code to unlock the doors and deactivate your system. Avital's remote controls with Stealth Coding randomly change the code every time you use them, and your system will not respond if any code is retransmitted. This technology makes code-grabbing devices useless.

Electronic Scan Prevention (ESP)

Your AviStart system also includes ESP, which blocks electronic scanner codes preventing unauthorized operation of your system.

Instant Remote Control Code Deletion

In the event of a lost or stolen remote control, all remote controls can be erased from the system memory preventing unauthorized system operation. (See the "Programming Table for Remote Controls" on page 15).

One-Step Remote Control Code Learning

The AviStart system allows you to add new remote controls in one step. (See the "Programming Table for Remote Controls" on page 15).

Valet Switch

The valet switch is a small hidden toggle switch which allows you to control all of the system programmable features. (See "User-Programmable Features" on page 14). This switch can only be controlled with the use of your ignition key.

NOTE: Be sure to have your dealer show you where the valet switch is located.

Operating Your AviStart

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 if you forget to arm the alarm with the remote control, the alarm will automatically arm itself 30 seconds after the doors have been closed and the interior lights have turned off.)See the "Programming Table for System Features" on page 14.)

Active Arming

Press the remote ARM/DISARM button for 1-2 seconds. 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.

*If your system was installed with the door lock/unlock feature,
All other door lock/unlock related features will apply.

Passive Arming

Turn the ignition key "OFF," exit the vehicle and close the doors. When the interior lights turn off, the LED will begin flashing rapidly to indicate the alarm is passive arming. After 30 seconds, the siren will chirp twice, the parking lights will flash twice, the LED will flash slowly and the starter will be disabled (at any time during passive arming, the alarm can be actively armed).

To Disarm the System

Press the remote ARM/DISARM button 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, the LED will turn off and the starter will be enabled.

Remote-Controlled Silent Arm/Disarm

Press the remote SILENT button for 1-2 seconds to *arm or disarm* your system without the usual siren chirps.

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.

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User-Programmable Long-Term Silent Arm/Disarm

This feature allows you to completely disable the arm/disarm siren chirps until you decide to restore them. (See the "Programming Table for System Features" on page 14.)

Remote Panic with Safety Locks™

In a threatening situation, you can activate Remote Panic with Safety Locks. When activated, the siren will sound and the parking lights will flash. If you are inside your vehicle and the ignition key is "ON," the doors will lock. If you are outside the vehicle with the ignition key "OFF," the doors will unlock.

To Activate

1. Press the remote control ARM/DISARM button for 3-4 seconds.
2. The siren will sound and the parking lights will flash.
3. If the ignition key is "OFF," the doors will unlock. If the ignition key is "ON," the doors will lock.

To Deactivate

1. Press the remote control ARM/DISARM button for 1-2 seconds.
2. The siren will shut off and the parking lights will stop flashing.

Interior Light Illumination

When the alarm system is remotely disarmed, the vehicles interior light(s) will turn on for 30 seconds or until the ignition key is turned on.

User-Programmable Passive Door Lock

The system will not automatically lock the doors when the alarm passively arms to prevent the keys and remote from being locked in the vehicle. If you prefer, you can easily program the alarm to automatically lock the doors every time the alarm passive arms. (See the "Programming Table for System Features" on page 14.)

User-Programmable Ignition-Controlled Door Lock/Unlock

For the ultimate in security and convenience, the AviStart is programmed to automatically lock your doors when the ignition key is turned "ON" or the engine is started, and will unlock when the ignition key is turned "OFF." This feature can be programmed ON or OFF. (See the "Programming Table for System Features" on page 14.)

Protected Valet Mode

You should place your system in Protected Valet Mode whenever your vehicle is being serviced by mechanics, car wash personnel or driven by valet parking attendants. While in the Protected Valet Mode, all remote starter and alarm functions are bypassed to prevent unauthorized or accidental operation. If a remote start is attempted, the parking lights will flash 4 times and the vehicle will not start. Remote-controlled door lock/unlock , trunk release and all optional accessories will still operate.

To Turn on Protected Valet Mode

1. Turn the ignition key to the "ON" position or start the engine.

2. Flick the valet switch to the "ON" position.

3. The LED will turn on solid red to indicate the system is in the Protected Valet Mode.

4. Turn the ignition key to the "OFF" position.

To Turn off Protected Valet Mode

1. Turn the ignition key to the "ON" position or start the engine.

2. Flick the valet switch to the "OFF" position.

3. The LED will turn off to indicate the system is no longer in the Protected Valet Mode.

4. Turn the ignition key to the "OFF" position.

LED System Status Indicator

The LED on your vehicles dashboard or center console will inform you of the system status.

LED	Status
Off	System is disarmed
On solid	In Protected Valet Mode
Slow flash	System is armed
Flashing in cycles	See "Specific Intrusion Identification" on page 7.
Rapid flash	Passive arming

Remote-Controlled Trunk Release Capability

If you have the optional Trunk Release installed, simply press the remote control TRUNK button for 1-2 seconds to activate your vehicle electronic trunk release. The trunk will "pop" open (may require an optional relay).

Remote-Controlled Accessory Output

This output allows you to add an optional remote-controlled accessory to your system such as a window roll-up, garage door opener or fuel door release. To activate your optional accessory, see the "Programming Table for Remote Controls" on page 15.

Zone^2™ Impact Sensor

The Zone^2 Impact Sensor has two individual vibration/impact sensing zones.

Zone #1

If a less threatening vibration or impact is detected, the siren will issue 2 warn-away chirps. A second violation will also issue 2 warn-away chirps. A third violation will, within 30 seconds, automatically activate the alarm. The siren will sound and the lights will flash.

Zone #2

If a more threatening vibration or impact is detected at any time, the siren and lights will activate instantly.

Previous Intrusion Alert

If the vehicle had been tampered with and the alarm had 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 the ignition "ON," the LED will flash in cycles to specifically identify which zone triggered the alarm.

LED	Zone
1 flash...1 flash...	Impact sensor / optional sensor input
2 flashes...2 flashes...	Hood trigger
3 flashes...3 flashes...	Door trigger
4 flashes...4 flashes...	Trunk trigger

Alarm State Memory

If your vehicle 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 Protected Valet Mode. For example, if a mechanic disconnects the battery while the alarm is disarmed or in Protected 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.

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 parking light flashes.

How to Interpret the Chirps and Parking Light Flashes

When you press the remote control buttons, the system will respond with chirps and flashes of the parking lights to indicate the system status. An explanation of these chirp/flash acknowledgements is listed below.

Number of chirps and flashes	Explanation
1 chirp, 1 flash	Disarming of the alarm
2 chirps, 2 flashes	Arming of the alarm
2 chirps and flashes, then 3 more chirps and flashes	Armed and a door is ajar
2 chirps and flashes, then 4 more chirps and flashes	Armed and there is a sensor malfunction (automatically bypassed)
3 chirps, 3 flashes	Disarmed and there was an intrusion attempt
4 chirps, 4 flashes	Armed and there is a trigger malfunction (automatically bypassed)
0 chirps, 1 flash	Remote start attempt and a fault was detected.
0 chirps, 2 flashes	Remote start attempt and all zones are OK. The vehicle will start.
2 three-second flashes Or 1 three-second flash	Remote automatic temperature-controlled starting. 2 = activation, 1 = deactivation.

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Remote Engine Start - Safety and Counter-Theft

> ⚠️ **CAUTION**: Be sure to read the "WARNING" bulletin on the inside cover of this manual before attempting to operate remote start.

Automatic Safety and Counter-Theft Features

Before remote starting your engine, the AviStart system will automatically perform a safety check to ensure the following conditions have been met:

- Brake pedal is not depressed.
- Engine and ignition are turned "OFF."
- Hood is closed.

After remote starting your engine, the AviStart system will shut off the engine immediately if the ignition is "OFF" and any of the following occurs:

- The hood is opened.
- The engine RPM rises above preset level.
- The brake pedal is pressed.
- The alarm is triggered.
- The remote control START button is pressed.
- The 20 or 30 minute programmable run time expired.

Visual Fault Indication

The AviStart has a built-in fault detection system that automatically scans all of the safety zones, prevents the system from remote starting and provides a visual indication if a fault is detected. The parking lights will flash 1 time if the hood is opened or if the brake pedal is depressed and will not allow the engine to start. If this occurs, bring your vehicle to your authorized Avital dealer for service.

Remote Engine Start - Operation

Your AviStart system will start your vehicle engine with a touch of a button on your AviGlo remote control. To cool or warm the interior of your vehicle before you enter, set the climate control to your preference (heater, defrost or air conditioning) before remote starting. Set the fan to a medium speed **(not maximum)**. Ensure the vehicle is in "Park" and the key **is not** in the ignition. We strongly recommend that you arm the alarm system at all times, especially if you are going to remote start the vehicle.

To Remote Start the Engine

1. Press the remote control START button for 1-2 seconds, 10-15 minutes before you enter your vehicle (this will allow the climate control time to heat or cool the interior.) The parking lights will flash 2 times, the engine will start and the parking lights will remain on as a visual indication that the engine is running. Five seconds after the engine starts, the doors will automatically lock. If you do not want the doors to automatically lock upon remote start, this feature (Security Start Locks™) can be programmed OFF. (See the "Programming Table for Systems Features" on page 14.)

    If you have a diesel engine, the AviStart will be programmed to start 15 seconds after the parking lights flash 2 times. This will allow time for the glow plugs to heat up. The alarm system will remain armed.

2. If the engine does not remote start, the AviStart system will attempt to start the engine two additional times.

3. If the vehicle is left unattended, the engine will run for 20 minutes and then shut off automatically. You can also program the system to run the engine for 30 minutes. (See the "Programming Table for System Features" on page 14.)

To Operate the Vehicle While Remote Started

1. If the alarm system is armed, press the remote ARM/DISARM button for 1-2 seconds. The alarm will disarm and the doors will unlock.

2. Enter the vehicle (do not touch the brake pedal), turn the ignition key to the "ON" position and then press the brake pedal. Pressing the brake pedal will shut off the remote start and parking lights but the engine will remain running.

3. You can now drive the vehicle.

To Shut Off Remote Start

At any time while the engine is remote started, you can shut off the engine with the remote control by pressing the remote control START button for 1-2 seconds. The engine and parking lights will shut off.

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User-Programmable Temperature-Controlled Starting

⚠️ **CAUTION**: Do not activate Temperature-Controlled Starting while the vehicle is in an enclosed area.

The AviStart system can be programmed to automatically start the vehicle engine whenever the temperature inside the vehicle reaches or drops below the preprogrammed temperature level. The AviStart will monitor the air temperature every 2.5 hours and will only start the engine during extreme cold temperatures. There are three temperature levels to choose from. (This feature is programmed OFF from the factory and must be programmed ON to operate. (See the "Programming Table for System Features"on page 14).

To Activate

Press the remote control TRUNK and START buttons at the same time. The parking lights will turn on for 3 seconds, shut off for 1 second, turn on for 3 seconds and shut off. This will be your visual indication that you have activated the Temperature-Controlled Starting feature.

When the temperature inside the vehicle reaches the preprogrammed temperature level, the parking lights will flash 2 times, the vehicle will start and the parking lights will turn on. The vehicle will run for 10 minutes and then shut off. This will allow the engine to warm up and charge the battery.

To Deactivate

Press the remote control TRUNK and START buttons at the same time for 1-2 seconds. The parking lights will turn on for 3 seconds and then turn off. This will be your visual indication that you have deactivated the Temperature-Controlled Starting feature.

NOTE: At any time, if the ignition key is turned on or the vehicle is remote started, the Temperature-Controlled Starting feature will deactivate.

Pit Stop Mode

> ⚠ **CAUTION**: Do not leave passengers or pets in the vehicle while the system is in Pit Stop Mode.

The Pit Stop Mode allows you to park the vehicle for short-term stops, remove the ignition key and leave the engine running.

To Activate

1. While the vehicle engine is running with the ignition key turned "ON," press the remote control START button for 1-2 seconds. The parking lights will flash 2 times and stay on. (Make sure the vehicle is in "Park" and the parking brake is set.)

2. Turn the ignition key "OFF" and the engine will stay running.

3. Remove the ignition key and remote control and exit the vehicle. Remember to keep the ignition key and remote control in your possession.

4. Press the remote control ARM/DISARM button for 1-2 seconds to secure your vehicle.

To Deactivate

1. When you return to the vehicle, press the remote control ARM/DISARM button for 1-2 seconds. The doors will unlock.

2. Enter the vehicle (do not touch the brake pedal), turn the ignition key to the "ON" position and then press the brake pedal. The parking lights will shut off and you will now be able to drive the vehicle.

User-Programmable Features

All AviStart system and remote control programmable features are accomplished by turning the ignition key "ON" (or starting the engine) and flicking the valet switch on and off a preset number of times.

The AviStart also allows you to add new remote controls in one step, delete lost or stolen remote controls or rearrange the factory preset remote control functions.

1. Remove the system from Protected Valet Mode. Programming cannot be accessed while the system is in Protected Valet Mode indicated by the LED on solid red.

2. Select the feature you wish to program from the "Programming Table for System Features" or the "Programming Table for Remote Controls" on pages 1 4& 15. Note the number of chirps associated with that feature.

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 once each time you flick the switch on then off.

5. Continue flicking the switch on and off, counting the number of chirps.
    NOTE: Stop when you reach the number of chirps associated with your chosen feature.

6. Follow the "Secondary Action." You will hear a number of chirps to confirm that you have changed the setting of that feature.

7. Turn the ignition key to the "OFF" position.

8. Repeat steps 1-7 for any other feature you wish to program.

Programming Table for System Features

Feature	Factory Setting	No. of Chirps	Secondary Action
Active/Passive Arming	Passive	4	Wait 3 seconds, the siren will chirp once for active, twice for passive.
Passive Door Lock	OFF	5	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Passive Arming Chirp/Light Flash Confirmation	ON	6	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Long-Term Silent Arm/Disarm	ON	7	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Ignition-Controlled Door Lock/Unlock	ON	10	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Programmable 0 or 3 Second Delay for Ignition-Controlled Door Lock	0 Seconds	11	Wait 3 seconds, the siren will chirp once for 3 seconds, twice for 0 seconds.
RPM Door Lock	OFF	12	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Door Ajar Indication	ON	13	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Remote Start Run Time 20 or 30 Minutes	20	15	Wait 3 seconds, the siren will chirp once for 30 minutes, twice for 20 minutes.
Temperature-Controlled Starting OFF or 5°F (-15°C)	OFF	17	Wait 3 seconds, the siren will chirp once for OFF, twice for 5°F (-15°C).
Temperature-Controlled Starting -7°F (-20°C) or -22°F (-30°C)	—	18	Wait 3 seconds, the siren will chirp once for -7°F (-20°C), twice for -22°F (-30°C).
Security Start Locks™	ON	19	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.

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Programming Table for Remote Controls

Feature	Factory Setting	No. of Chirps	Secondary Action
Arm/Disarm	ARM/DISARM button	20	Press ARM/DISARM button, the siren will chirp 1 time.
Trunk Release Output	TRUNK button	21	Press TRUNK button, the siren will chirp 2 times.
Remote Start	START button	22	Press START button, the siren will chirp 4 times.
Silent Arm/Disarm	SILENT button	23	Press SILENT button, the siren will chirp 3 times.
Accessory Output 2	ARM/DISARM + START button	24	Press ARM/DISARM + START button, the siren will chirp 5 times.
Temperature-Controlled Start Active/Inactive	TRUNK + SILENT button	25	Press TRUNK + SILENT button, the siren will chirp 6 times.
One-Step Remote Control Code Learning	ARM/DISARM button	26	Press ARM/DISARM button, the siren will chirp 1 time.
Instant Remote Control Code Deletion	—	27	Wait 3 seconds, the siren will chirp twice, all codes are erased out of memory.

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