

Exhibit E

User's Manual

AVITAL TECHNOLOGIES, INC.

FCC ID.: I5M5914

Car Security System (RECEIVER)

NOTE:

This FCC ID. Application is for “RECEIVER”.

The TRANSMITTER use for RECEIVER which had been submitted to FCC for applying, the FCC ID IS “I5M5659-4”

AVISTART **6500**

*Remote Engine Starter &
Vehicle Security System*



© 1998 Avital Technologies, Inc. Part Number: 31-6500

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 6500

Congratulations! You have just purchased the AviStart 6500 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 fully benefit 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's memory preventing unauthorized system operation. (See the "Programming Table for Remote Controls" on page 16).

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 16).

Valet Switch

The valet switch is a small hidden toggle switch which allows you to control all of the system's 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.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 the alarm will automatically arm itself. See the "Programming Table for System Features" on page 15.

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.

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.

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 15.)

Two-Stage Unlock Capability

If the optional Two-Stage Unlock feature was installed, press the ARM/DISARM or SILENT button for 1-2 seconds and only the driver door will unlock. Within 3 seconds, press the ARM/DISARM or SILENT button again and the passenger doors will unlock (may require an optional relay).

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 vehicle 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 passively arms. (See the "Programming Table for System Features" on page 15.)

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 15.)

User-Programmable RPM Door Lock

The system can be programmed to automatically lock the doors when the engine reaches the factory preset RPM level. (See the "Programming Table for System Features" on page 15). When you begin driving, your vehicle doors will automatically lock. When you turn the ignition key off, the doors will automatically unlock.

NOTE: Ignition-Controlled Door Lock feature must be programmed OFF.

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.

Remote-Controlled Valet

For your convenience, the system can be put into Valet Mode via the remote control. While in Remote-Controlled Valet, all alarm functions are bypassed. Remote start, remote-controlled lock/unlock and all optional accessories will still operate.

NOTE: The system must be disarmed in order to activate the Remote-Controlled Valet feature.

To Activate Remote-Controlled Valet

1. Press the remote control ARM/DISARM and START buttons at the same time for 1-2 seconds.
2. The parking lights will flash 4 times, and the LED will turn on solid red.

To Deactivate Remote-Controlled Valet

1. Press the remote control ARM/DISARM and START buttons at the same time for 1-2 seconds.
2. The parking lights will flash 3 times and the LED will turn off.

LED System Status Indicator

The LED on your vehicle 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 Zone Intrusion Identification" on page 8
Rapid flash	Passive arming

Remote-Controlled Trunk Release Capability

If you had the optional Trunk Release feature installed, simply press the remote control TRUNK button for 1-2 seconds to activate your vehicle electronic trunk release. The trunk will "pop" open. This feature will only work if your system is disarmed (may require an optional relay).

Remote-Controlled Accessory Outputs

These outputs allow you to add optional remote-controlled accessories to your system such as a window roll-up, garage door opener or fuel door release. To activate your optional accessories, see the "Programming Table for Remote Controls" on page 16.

Zone²™ Impact Sensor

The Zone² 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. If within 45 seconds a third violation is detected, the sensor will automatically trigger 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.

Remote-Controlled Sensor Bypass

You can bypass the system sensor(s) at any time. The alarm system will still provide full perimeter protection.

To Bypass the Sensor(s):

1. Press remote SILENT and TRUNK buttons at the same time.
2. The siren will chirp twice...pause...chirp twice...pause...chirp twice.
3. The sensor(s) is now bypassed until you remotely disarm and then re-arm your system.

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 Zone 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

User-Programmable Door Ajar Indication

When you remotely arm the alarm system and a door is ajar (not closed), the siren will chirp 2 times, then chirp 3 times and the parking lights will flash 3 times. This feature provides audible and visual indication to prevent battery drain. (See "Programming Table for System Features" on page 15.)

NOTE: If your vehicle has factory delayed lighting, this feature will be turned OFF.

User-Programmable Siren Duration

Upon activation, the siren can be programmed to run for 30 or 60 seconds before it will shut off and instantly rearm. (See the "Programming Table for System Features" on page 15.)

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 a valet mode. For example, if a mechanic disconnects the battery while the alarm is disarmed or in a valet mode, he won't trigger the alarm when he reconnects the battery. 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 and on the following page.

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).

Number of chirps and flashes	Explanation
3 chirps, 3 flashes	Disarmed and there was an intrusion attempt.
4 chirps, 4 flashes	Armed and there is a sensor malfunction (automatic bypass).
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.
0 chirps, 4 light flashes	Remote valet activation.
0 chirps, 3 light flashes	Remote valet deactivation.
6 chirps, 0 light flashes	Remote sensor bypass.
2 chirps and flashes, then 3 more chirps and flashes	Armed and a door is open or ajar.
0 chirps, 4 light flashes	Remote start attempt and system is in Protected Valet Mode.

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 15.) 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 15.)

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.

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 15).

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 then stay on and the doors will unlock. (Make sure the vehicle is in "Park" and set the emergency parking brake.)
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 15 & 16. 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.
Siren Duration 30-60 Seconds	30	8	Wait 3 seconds, the siren will chirp once for 60, twice for 30.
Ignition-Controlled Door Lock/Unlock	ON	11	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	12	Wait 3 seconds, the siren will chirp once for 3 seconds, twice for 0 seconds.
RPM Door Lock	OFF	13	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Door Ajar Indication	ON	14	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Remote Start Run Time 20 or 30 Minutes	20	16	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	18	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)	—	14	Wait 3 seconds, the siren will chirp once for -7°F (-20°C), twice for -22°F (-30°C).
Security Start Locks™	ON	20	Wait 3 seconds, the siren will chirp once for Off, twice for On.

Programming Table for Remote Controls

Feature	Factory Setting	No. of Chirps	Secondary Action
Arm/Disarm	ARM/DISARM Button	21	Press ARM/DISARM Button, the siren will chirp 1 time.
Remote-Controlled Trunk Release Output	TRUNK Button	22	Press TRUNK button, the siren will chirp 2 times.
Remote Start	START Button	23	Press START Button, the siren will chirp 3 times.
Silent Arm/Disarm	SILENT Button	24	Press SILENT Button, the siren will chirp 4 times.
Remote-Controlled Valet	ARM/DISARM + START Buttons	25	Press ARM/DISARM + START Buttons, the siren will chirp 5 times.
Channel 6 Remote-Controlled Accessory Output	ARM/DISARM + SILENT Buttons	26	Press ARM/DISARM + SILENT Buttons, the siren will chirp 6 times.
Remote-Controlled Sensor Bypass	TRUNK + SILENT Buttons	27	Press TRUNK + SILENT Buttons, the siren will chirp 7 times.
Temperature-Controlled Start Active/Inactive	TRUNK + START Buttons	28	Press TRUNK + START Buttons, the siren will chirp 8 times.
Channel 9 Remote-Controlled Accessory Output	SILENT + START Buttons	29	Press SILENT + START Buttons, the siren will chirp 9 times.
One-Step Remote Code Learning	ARM/DISARM Button	30	Press ARM/DISARM Button, the siren will chirp 1 time.
Instant Remote Control Code Deletion	—	31	Wait 3 seconds, the siren will chirp twice, all codes are erased out of memory.

Model : RangeMaster super heterodyne receiver

FCC ID : I5M5914

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.

(3) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND

(4) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,

INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE

OPERATION.

AVISTART **6500**

*Remote Engine Starter &
Vehicle Security System*

Installation Manual



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Part Number: 31-6500

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Important Information

Recommended Installation Tools

- Voltmeter
- Wire Strippers
- Electric Drill & Bits
- Phillips Screwdriver
- Convuluted Tubing *
- Solder Gun *
- Wire Crimpers
- Shrink Tube or Electrical Tape

* Optional

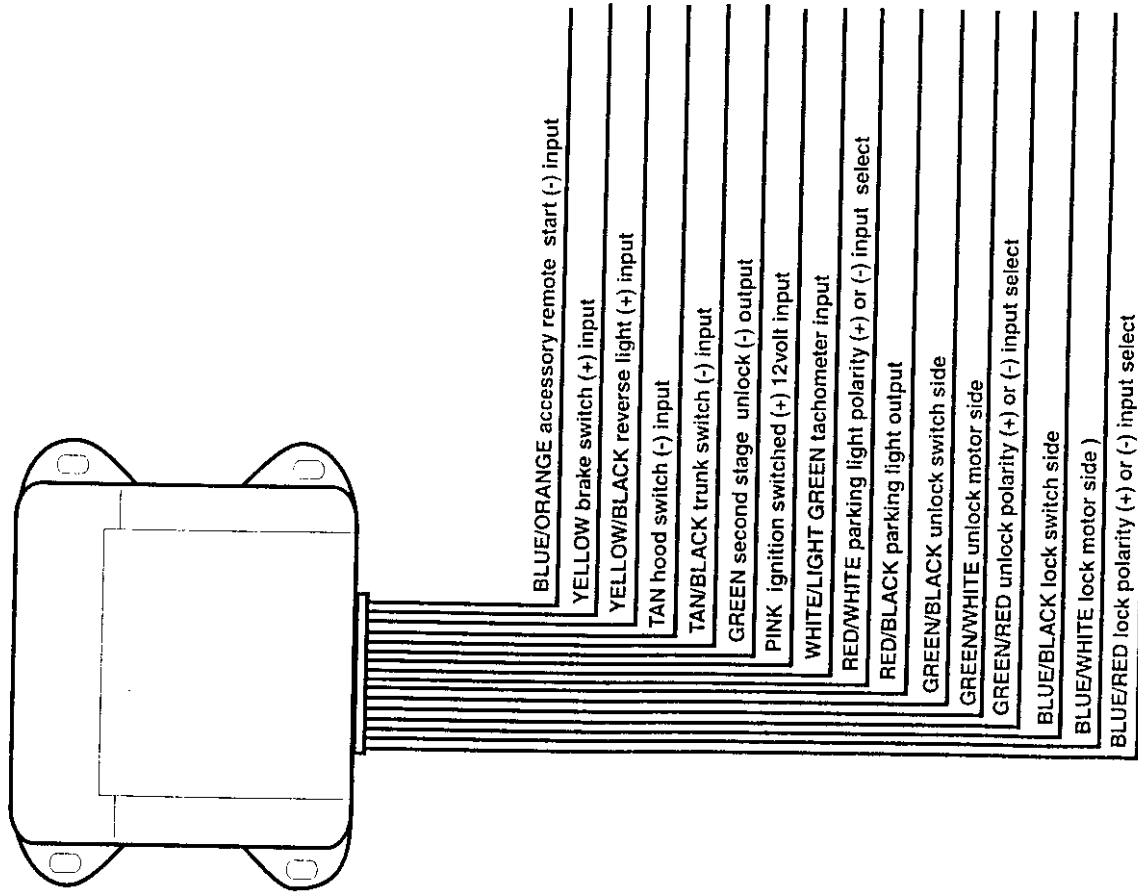
Recommended Procedures

1. Test all circuits with a voltmeter.
2. Make all wiring connections with the supplied solderless crimp connectors. DO NOT twist wires or use scotch-lok connectors.
3. Route the small and large **RED, RED/WHITE** and **BLACK** wires from the control unit directly to the battery.
4. Keep extensions as short as possible. Use same gauge wires for short extensions and larger gauge wires for longer extensions.
5. Before installing, discuss the placement of the LED indicator and valet switch with the vehicle owner.
6. DO NOT disconnect the battery cables. Make all connections by removing the bolts from the cable clamps without detaching the clamp.
7. Turn off dome light or remove dome light fuse to prevent battery drain.

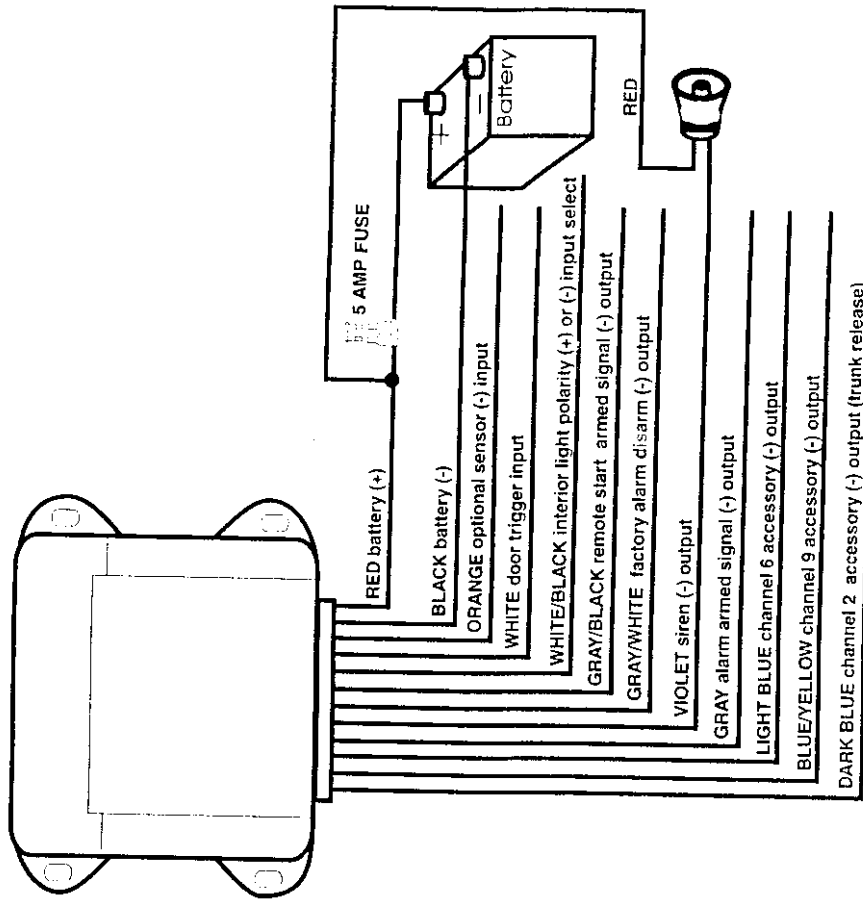
This device complies with Part 15 of the FCC rules. Any changes or modifications made to the system without the express approval of Avital Technologies, Inc. could void the user's authority to operate this equipment.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

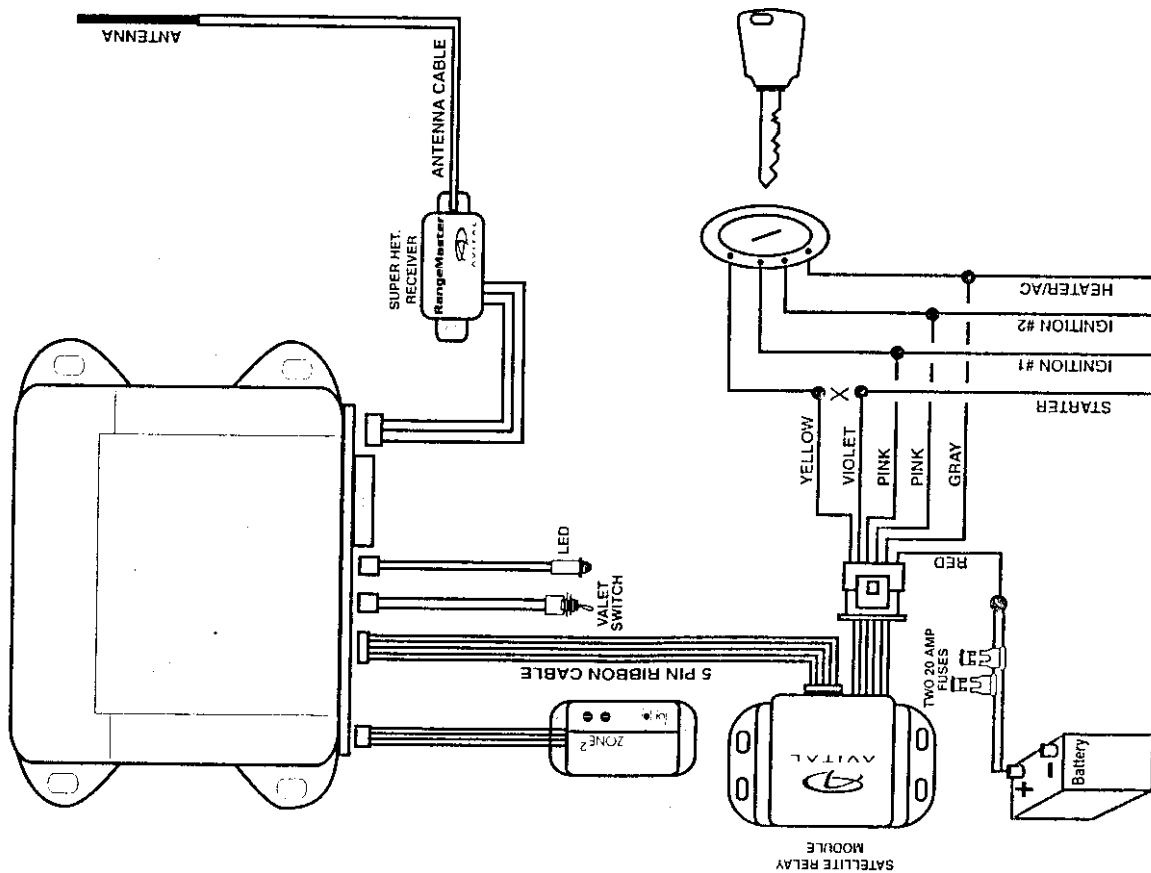
Main Wiring Diagram - 16 Pin



Main Wiring Diagram - 12 Pin



Satellite Relay Module Diagram



16 Pin Connector

Pin Number	Wire Color	Description
1	BLUE / ORANGE	Accessory Remote Start (-) Input
2	YELLOW	Brake Switch (+) Input
3	YELLOW / BLACK	Reverse Light (+) Input
4	TAN	Hood Switch (-) Input
5	TAN / BLACK	Trunk Switch (-) Input
6	GREEN	Second Stage Unlock (-) Output
7	PINK	Ignition Switched +12 Volt Input
8	WHITE / LIGHT GREEN	Tachometer Input
9	RED / WHITE	Parking Light Polarity Input (+) or (-) Select
10	RED / BLACK	Parking Light Output
11	GREEN / BLACK	Unlock Switch Side
12	GREEN / WHITE	Unlock Motor Side
13	GREEN / RED	Unlock Polarity (+) or (-) Select
14	BLUE / BLACK	Lock Switch Side
15	BLUE / WHITE	Lock Motor Side
16	BLUE / RED	Lock Polarity (+) or (-) Select

12 Pin Connector

Pin Number	Wire Color	Description
1	GRAY	Alarm Armed Signal (-) Output
2	GRAY / BLACK	Remote Start Activated (-) Output
3	GRAY / WHITE	Factory Alarm Disarm (-) Output
4	DARK BLUE	Channel 2 (-) Output; Trunk Release
5	LIGHT BLUE	Channel 6 (-) Output
6	BLUE / YELLOW	Channel 9 (-) Output
7	RED	Battery (+)
8	WHITE	Door Trigger
9	VIOLET	Siren (-) Output
10	WHITE / BLACK	Door Trigger Input Polarity (+) or (-) Select
11	BLACK	Battery (-)
12	ORANGE	Optional Sensor (-) Input

6 Pin Connector

Pin Number	Wire Color	Description
1	YELLOW	Starter Interrupt Switch Side
2	GRAY	Heater / Output
3	VIOLET	Starter Interrupt Starter Side
4	PINK	Ignition Output
5	RED	Battery (+)
6	PINK	Ignition Output

Installation Procedures

Control Unit

1. Select a location under the dash that will allow you to use the tie wraps to securely fasten the control unit.
2. Mount the control unit as high as possible to ensure maximum security.
3. Do not mount the control unit near moving parts.
4. Avoid areas that are in the direct path of air blowing from the vents.
5. Route wires from this point, leaving slack for ease of service.

RangeMaster™ Super Heterodyne Receiver Module

1. Plug the receiver module **WHITE** connector into the control unit **WHITE** plug.
2. Use tie wraps to fasten the receiver module as far from the control unit as possible.
3. Route the antenna cable behind the driver side windshield pillar, above the headliner and behind the rear view mirror.
4. Use the small mounting tabs to attach the antenna to the windshield, behind the rear view mirror approximately 2" below the top of the windshield. Attach vertically for maximum performance.

Wireloom

1. Plug the wirelooms securely into the control unit and satellite relay module.
2. Route wires from the control module and satellite relay module directly to each connection point.
3. Separate the small and large **RED, RED/WHITE, BLACK, TAN, VIOLET** and **WHITE/GREEN** wires.
4. Sleeve these wires with vinyl tubing or electrical tape and route them through an existing rubber grommet into the engine compartment.
5. If an existing grommet is not available, drill a hole and install a snap grommet.

LED Indicator

1. Discuss placement with the owner.
2. Choose a location that is visible from both sides of the vehicle.
3. Drill a 1/4" hole.
4. Route the LED wires through the hole and press LED into place.
5. Route the LED wires to the control unit.
6. Plug the **RED** LED connector into the control unit **RED** plug.

Valet Switch

1. Discuss placement with the owner.
2. Choose a location for the valet switch that is hidden, but convenient for the owner to access.
3. Drill a 1/4" hole and mount the switch.
4. Route the valet switch wires to the control unit.
5. Plug the valet switch **WHITE** connector into the control unit **WHITE** plug.

Zone²™ Impact Sensor

The sensor must be firmly mounted on a solid metal surface inside the vehicle. We recommend tie wrapping the sensor to the steering column housing or steering column support bracket. **DO NOT** mount the sensor near moving parts or in the direct path of an air duct opening.

1. Plug the impact sensor **BLUE** 4-pin connector into the control unit **BLUE** 4-pin connector.
2. Route the impact sensor harness to the chosen mounting location.
3. Using the long tie wraps supplied, securely fasten the impact sensor allowing access to the adjustment screws.

Additional Sensor Input

The **ORANGE** wire is a (-) trigger input with a 5 second arming delay. This input can be used for optional sensors such as a glass sensor, radar sensor or any other type of sensor that provides a (-) ground output when triggered.

Alarm Armed Signal (-) Output

The **GRAY** wire will provide a continual 300 M.A. output whenever the alarm is armed. This output can be used for voice modules, window roll-up modules and any other optional accessory that requires a (-) output when the alarm is armed.

Brake Lights (Mandatory)



CAUTION: As a safety feature, the unit monitors the brake light to prevent an unauthorized driver from driving the car and to switch to normal engine operating condition. For this reason, the **YELLOW** brake light input wire must be connected and the brake light must be in working condition or the remote start will not operate properly.

1. Turn the ignition key to the "ON" position, then press the brake pedal and make sure the brake light illuminates.
2. Use a voltmeter to find the one wire at the brake light switch (usually located on the upper brake pedal arm) that shows +12 volts when you press the brake pedal and 0 volts when the brake pedal is not depressed.
3. Connect the 18 ga **YELLOW** wire to the vehicle brake light switch wire.

Parking Lights

1. If the parking lights are positive trigger, connect the **RED/WHITE** wire to the battery positive (+) terminal through the 20 amp fuse assembly.

NOTE: Do not connect the RED/WHITE wire to the control unit RED wire.

2. If the parking lights are negative (-) trigger, connect the **RED/WHITE** wire to control unit **BLACK** wire.
3. Connect the **RED/BLACK** wire to the vehicle parking light wire.

Reverse Light



CAUTION: Some vehicles allow you to remove the gear shift selector from "Park" even while the ignition key is not on. As a safety feature, the system will monitor the reverse wire. If the vehicle is removed from "Park" while in the remote start mode, the system will shut down immediately.

1. Set the parking brake.
2. Turn the ignition key to the "ON" position and adjust the gear shift selector to "Reverse."
3. Use a voltmeter to find the wire that will show +12 volts in "Reverse" and 0 volts in "Park."
4. Connect the **YELLOW/BLACK** wire to the vehicle's reverse light wire.

Interior Light Illumination

1. Connect the **WHITE** wire to the vehicle door trigger wire.
2. If the door trigger is negative, connect the **WHITE/BLACK** wire to ground.
3. If the door trigger wire is positive switching, connect the **WHITE/BLACK** wire to a fused constant +12 volt source. Do not use the alarm **RED** wire.

Channel 2 Accessory Output (Trunk Release)

The **DARK BLUE** wire provides a 0.75 second ground output when the **TRUNK** button is pressed for 1-2 seconds while the alarm is disarmed only. If the **TRUNK** button is continually pressed, the output will stay at ground as long as the button is held. Most factory trunk releases are positive trigger and require an optional relay.

Channel 6 Accessory Output

The **LIGHT BLUE** wire provides a 0.75 second ground output when the **ARM/DISARM** and **SILENT** buttons are pressed at the same time for 1-2 seconds. If the **ARM/DISARM** and **SILENT** buttons are continually pressed, the output will stay at ground as long as the buttons are held. This output can be used for optional accessories such as window roll-up/down or any other accessory requiring a (-) input.

Channel 9 Accessory Output

The **BLUE/YELLOW** wire provides a 0.75 second output when the **SILENT** and **START** buttons are pressed at the same time for 1-2 seconds. If the **SILENT** and **START** button are continually pressed, the output will stay at ground as long as the buttons are held. This output can be used for optional accessories such as a fuel filler door release or any other accessory requiring a (-) input.

Remote Start Armed Signal (-) Output

The **GRAY/BLACK** wire will provide a continual ground output for as long as the vehicle is in the remote start mode. This output can be used for additional ignition, starter or heater/AC relays, as well as VATS, Passlok and Passkey bypass.

Factory Alarm Disarm (-) Output

The **GRAY/WHITE** wire will provide a 0.75 second ground output when the **START** button is pressed.

1. Arm the vehicle factory alarm system.
2. Use a volt/ohmmeter to locate the one wire that will show ground only when the driver door key cylinder is held in the unlock position.

NOTE: most factory alarm disarm wires will show 8-12 volts while armed. A few vehicle disarm wires will rest at a neutral state while armed. Regardless of type, both types will change to ground when the key cylinder is turned to unlock.

3. Connect the **GRAY/WHITE** wire to the factory alarm disarm wire.

Accessory Remote Start (-) Input

The **BLUE/ORANGE** wire will accept a (-) input pulse to activate the remote start.

Trunk Switch

1. Locate the vehicle trunk switch that shows ground when the trunk is open only.
2. Connect the alarm module **TAN/BLACK** wire to the vehicle trunk switch wire.
3. If the vehicle does not have a trunk switch, install a pin switch and connect it to the alarm module **TAN/BLACK** wire.

Ignition Switch Connections

NOTE: Because these wires can draw high current, we recommend that they be soldered and shrink tubed or taped. If only one PINK wire is needed, tape the end of the second PINK wire to prevent a short circuit. The main control module has an 18 ga PINK wire that must be connected to the vehicle ignition wire with one of the satellite module 14 ga wires.

Ignition #1 Ignition #2

The satellite relay module has two onboard 30-amp relays. Most vehicles have only one ignition wire necessary to start the vehicle. Some vehicles have two ignition wires. Make all wire connections at the ignition switch wire harness.

(Continued on next page)


1. Use a voltmeter to locate the wire(s) that show +12 volts while the ignition key is in the "ON," "CRANK" and "RUN" positions and 0 volts when the ignition key is in the "OFF" position.
2. Connect the 18 and 14 ga **PINK** wires to the vehicle ignition wire.
3. If the vehicle has a second ignition wire, connect the other 14 ga wire.

Heater/AC

The satellite relay module has one onboard 30-amp relay. Most vehicles have only one heater/AC wire. If additional heater/AC wires are required to activate the vehicle's heater/AC system, an additional 30-amp relay must be added. Do not use the **GRAY** wire to power more than one heater/AC wire.

1. Use a voltmeter to find the wire(s) that show +12 volts when the ignition key is in the "ON" position, 0 volts while the starter is cranking and +12 volts while running.
2. Cut this wire in half. Start the vehicle and turn the blower switch on. The blower should not turn on.
3. Connect the **GRAY** wire to the heater/AC wire.

Starter

 **WARNING:** Review the "Safety Bulletin" and diagrams on pages 14-16 prior to installing the starter system.

1. Use a voltmeter to find the wire that shows +12 volts while the ignition key is in the "CRANK" position **only** and 0 volts while the key is in the "OFF," "ON" and "RUN" positions.
2. Cut the wire in half. Test by trying to crank the starter with the ignition key. If it will not crank, you have the correct wire.
3. Connect the **YELLOW** wire to the ignition switch side of the starter wire.
4. Connect the **VIOLET** wire to the starter solenoid side of the starter wire.

Remote Engine Start Neutral Safety Switch Bulletin

A neutral safety switch is a mechanism on almost every vehicle equipped with an automatic transmission. The neutral safety switch prevents the vehicle from starting while the gear shift selector is in "Reverse" or "Forward" gear positions. There are basically two types of neutral safety switches. The most common is the mechanical (separate) neutral safety switch. A small group of vehicles use a combined neutral safety switch.

Type "A" (separate)

The mechanical neutral safety switch is located between the ignition switch and the starter solenoid. The starter wire runs directly from the back of the ignition switch to the neutral safety switch and then to the starter solenoid. When adding a remote engine starter, make starter wire connections as close to the ignition switch as possible to ensure your connections are between the ignition switch and the neutral safety switch.

Type "B" (combined)

Some vehicles combine the neutral safety switch and the steering column shift mechanism together. The starter wires run from the "combined" switch directly to the starter solenoid. The remote start wire connection cannot be made between the ignition switch and the neutral safety switch. As a result, if the vehicle was left in gear with the key in the ignition and not in the locked position, the vehicle could move forward or backward if a remote start attempt was made.

The combined type neutral safety switch requires an additional relay to prevent the vehicle from remote starting while the key is in the ignition. Use the attached test procedure and relay wiring diagrams. Install the complete remote start unit and test all safety features before conducting the test procedure.

Currently, the only vehicles with the combined neutral safety switch that Avital is aware of are General Motors trucks, GM sport utility vehicles, GM column shift passenger cars and Dodge Dakota pickup trucks. There may be additional vehicles with the combined neutral safety switch that require the additional relay.

NOTE: Use the following test procedure upon completion of every remote start regardless of the make and model of the vehicle

Test Procedure

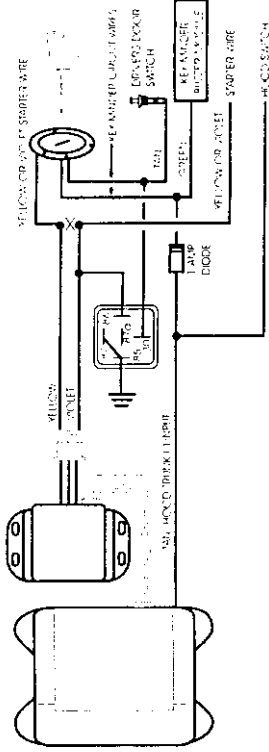
CAUTION: Be sure there is at least 5 feet of unobstructed clearance at the front and rear of the vehicle. Make sure to alert anyone near the vehicle you are testing that the vehicle may move forward slightly.

1. Apply the parking brake.
2. Turn the ignition key to the "ON" position and place the vehicle in "DRIVE."
3. Turn the ignition as close to the "OFF" position as possible. (Most vehicles will not allow the key to turn off completely.)
4. Place your foot over the brake pedal without touching it. Be prepared to step on the brake if the starter engages.
5. Activate the remote engine starter.
6. If the vehicle starter engages, immediately press the brake pedal to disengage (shut down) the remote start. You have a "combined" type neutral safety switch and you will have to add an additional relay as shown in the diagram.
7. If the vehicle starter does not engage, no additional relays are required.

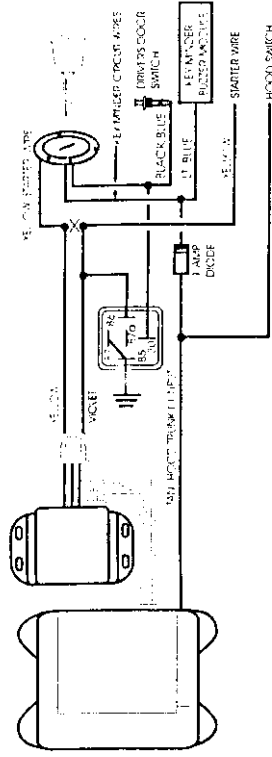
All vehicles have a "key in the ignition" reminder circuit (key minder) that will sound a chime or buzzer while the key is in the ignition and the driver's door is open. The following diagrams will illustrate how to interface the key-minder wires and a relay to prevent the vehicle from remote starting while the key is in the ignition.

The wire color codes are subject to change. Check all wires with a volt/ohmmeter. If you have any questions, please contact the Avital Technical Support Department.

General Motors Sport Utility Vehicles, Trucks and Column Shift Passenger Vehicles



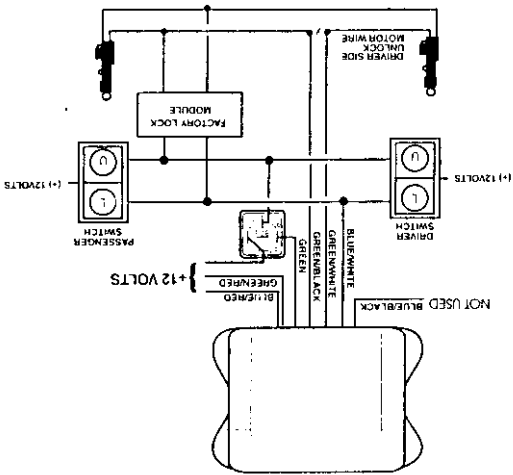
Dodge Dakota Pickup Trucks



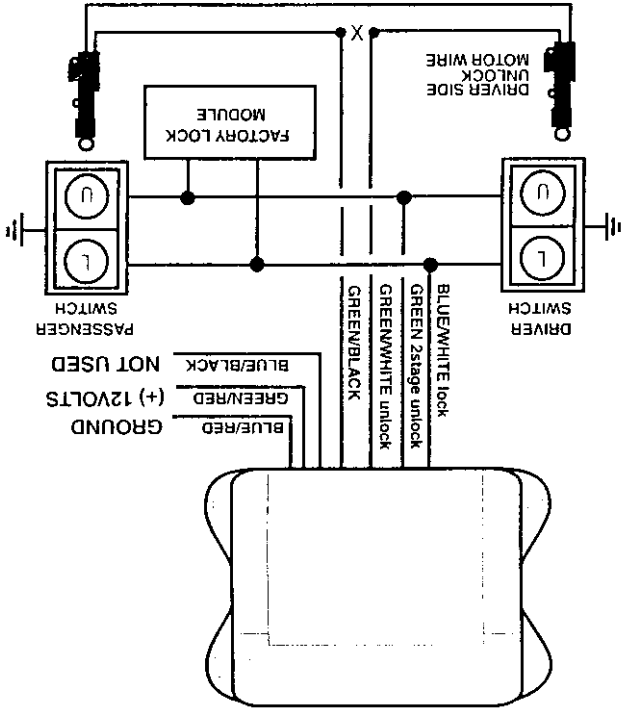
Door Lock/Unlock

The system has onboard door lock relays to lock and unlock all of the doors as well as a two-stage unlock. The diagrams on pages 17-20 will illustrate standard lock/unlock and two-stage unlock.

Positive Trigger Door Locks

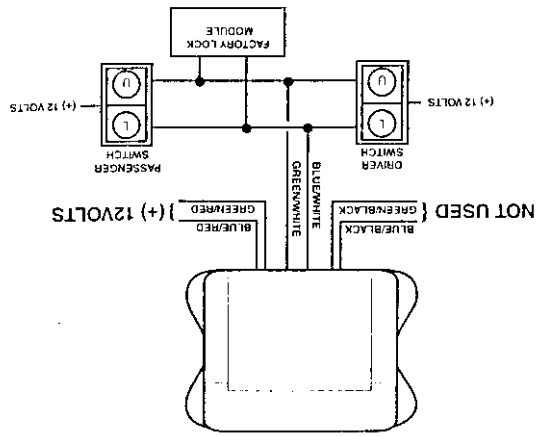


Two-Stage Door Locks

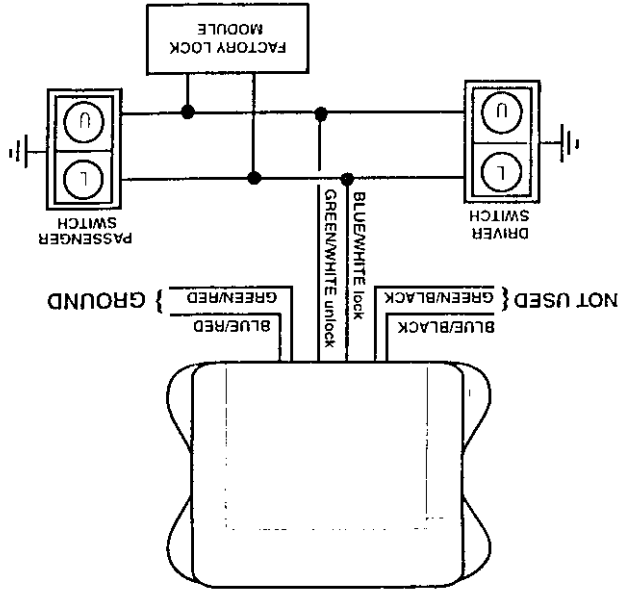


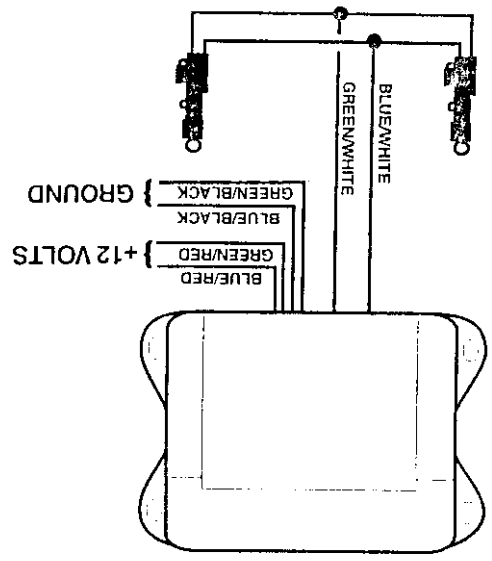
Negative Trigger Door Locks

Positive Trigger Door Locks

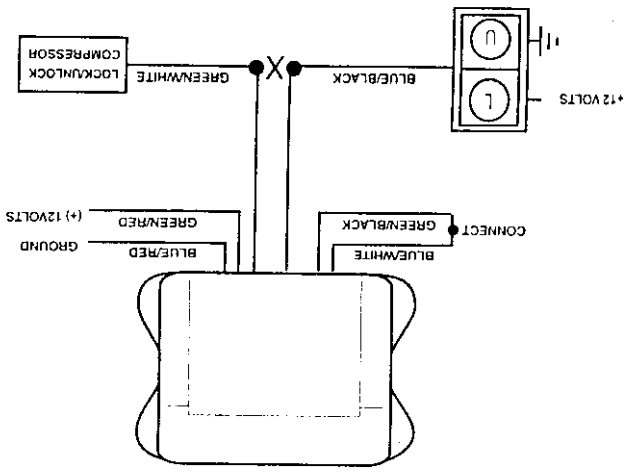


Negative Trigger Door Locks

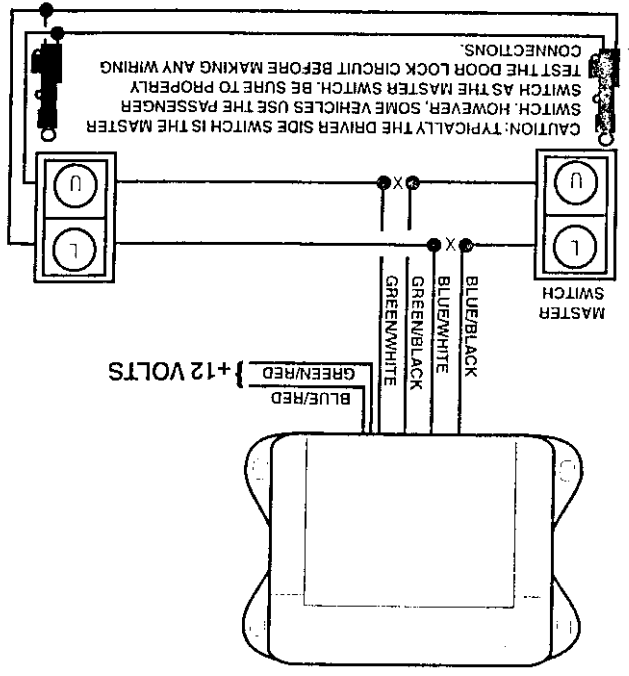




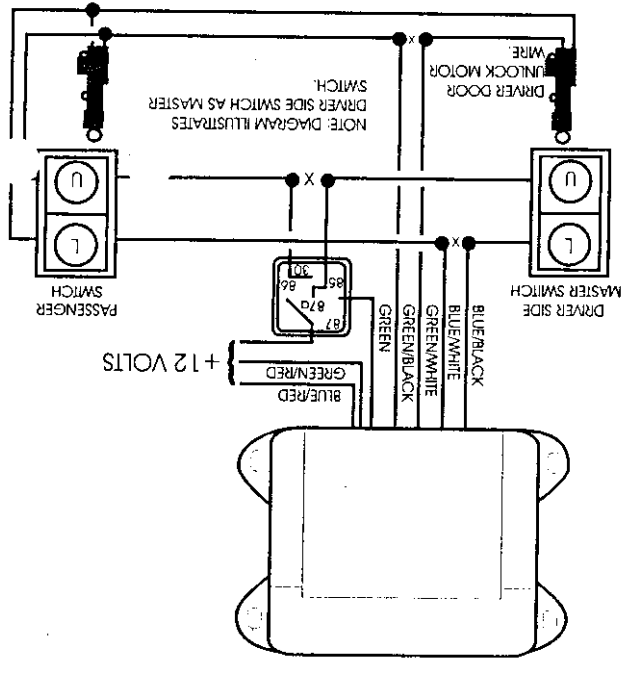
Adding Door Lock Actuators



Mercedes/Audi
One Wire Lock/Unlock



Reverse Polarity Door Locks



Two Stage Door Unlock
Reverse Polarity Door Locks

Tach Wire (RPM Monitoring)

The AviStart is designed to monitor the vehicle RPM by connecting directly to the vehicle tachometer wire which is usually located at the distributor, ignition coil or diagnostic plug. On most vehicles, the tach wire is easily accessible. If the tach wire is not accessible, there are several alternative choices. Contact Avital Technical Support Department for alternate choices.

The following procedure for testing the vehicle tach wire is not exact and may vary with different vehicle make, model and year. We recommend that you refer to your Avifax documents for tach color code and location information.

1. Set your voltmeter to the AC voltage scale.
2. Start the vehicle. Use the voltmeter to find a wire that will show 1 to 5 volts AC while the vehicle is idle and increase an additional 1 to 5 volts AC when the engine RPM is raised to 3000-4000 RPM.
3. Connect the **WHITE/GREEN** wire to the vehicle tach wire.

Hood Switch (Mandatory)

As a safety precaution, the hood switch prevents the vehicle from starting when the hood is open. If the vehicle is in the remote start mode and the hood is opened, the remote start will immediately shut down. The hood switch will also trigger the alarm when opened.

1. Choose a location under the hood away from direct exposure to water or water drain areas.
2. Check for proper hood clearance.
3. Make sure the hood switch will make contact with a flat surface on the hood when closed.
4. Drill a $\frac{5}{16}$ " mounting hole.
5. Mount the hood switch.
6. Connect the **TAN** wire to the hood switch.
7. Make sure the hood makes contact with hood switch when closed and presses the hood switch straight down to prevent wear.

Siren

1. Choose a location in the engine compartment away from high heat engine components, moving parts and direct exposure to water.
2. Make sure the siren and siren wires cannot be seen or reached from below the vehicle.
3. Mount the siren with the two self tapping screws to a solid metal surface.
4. Connect the siren **BLACK** wire to the alarm module **VIOLET** wire.
5. Connect the siren **RED** wire to the alarm module **RED** wire.

Power and Ground Connections



CAUTION: Do not plug in the system fuses until the final step below.

1. Connect the 18 ga **RED** wire to one end of a supplied 20 amp fuse assembly.
2. If the vehicle parking lights are positive trigger, connect the **RED/WHITE** wire to one end of the other supplied 20 amp fuse assembly.
3. Connect the **BLACK** wire to the 10 mm ring terminal.
4. Connect the 10 ga **RED** wire to one end of both 30-amp fuse assemblies.
5. Connect the other ends of the 18 ga **RED** and **RED/WHITE** wire fuse assemblies to the 10 mm ring terminal.
6. Connect the other end of the 10 ga **RED** wire fuse assembly to the other 10 mm ring terminal.
7. Remove the (+) and (-) battery bolts. Do not disconnect the battery clamps.
8. Connect the empty fuse assemblies to the (+) battery terminal.
9. Connect the **BLACK** wire to the (-) battery terminal.
10. Inspect all wiring. Make sure all wires are connected correctly.
11. Install the 5 amp fuse in the 18 ga **RED** wire fuse assembly.
12. Install the 20 amp fuse in the **RED/WHITE** wire fuse assembly.
13. Install the two 20 amp fuses in the 10 ga **RED** wire fuse assemblies.

Mandatory RPM Programming

In order to remote start the vehicle engine and prevent over-grinding of the starter motor, the engine RPM must be programmed into the system memory.

1. Start the engine with the ignition key. Let the engine warm up until it reaches a normal idle RPM (typically 700-900 RPM).
2. Turn the ignition key "OFF."
3. Start the engine with the ignition key.
4. Within 10 seconds of starting the vehicle, begin flicking the valet switch on then off 15 times (counting the siren chirps).

NOTE: Stop on the 15th chirp. See the "Programming Table for System Features" on page 24.

5. Press and hold the remote START button.
6. The parking lights will flash two times to confirm the RPMs have been memorized.
7. Release the START button.
8. Turn the engine off.

Programmable Features

All AviStart system and remote control programmable features are accomplished by turning the ignition key to the "ON" position or starting the engine and flicking the valet switch on and off a preset number of times. The siren will chirp for audible programming confirmation.

The AviStart also allows the user 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 24-25. 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 "OFF."
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.
Remote Arming Siren Chirps	ON	7	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Siren Duration 30-60 Seconds	30	8	Wait 3 seconds, the siren will chirp once for 60, twice for 30.
2 Pulse Unlock	1 Pulse	9	Wait 3 seconds, the siren will chirp once for 2 pulse, twice for 1 pulse.
Door Lock/Unlock Output Duration 1 or 3 Seconds	1 Second	10	Wait 3 seconds, the siren will chirp once for 3 second, twice for 1 second.
Ignition-Controlled Door Lock/Unlock	ON	11	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	12	Wait 3 seconds, the siren will chirp once for 3 seconds, twice for 0 seconds.
RPM Door Lock	OFF	13	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Door Ajar Indication	ON	14	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.
Mandatory RPM Programming	—	15	See "Mandatory RPM Programming" on page 23.
Remote Start Run Time 20 or 30 Minutes	20	16	Wait 3 seconds, the siren will chirp once for 30 minutes, twice for 20 minutes.
Remote Start Pre-Ignition 2 or 15 Seconds	2 Seconds	17	Wait 3 seconds, the siren will chirp once for 15 seconds, twice for 2.
Temperature-Controlled Starting OFF or 5°F (-15°C)	OFF	18	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)	—	19	Wait 3 seconds, the siren will chirp once for -7°F (-20°C), twice for -22°F (-30°C).
Security Start Locks™	ON	20	Wait 3 seconds, the siren will chirp once for OFF, twice for ON.

Programming Table for Remote Controls

Feature	Factory Setting	No. of Chirps	Secondary Action
Arm/Disarm	ARM/DISARM Button	21	Press ARM/DISARM Button, the siren will chirp 1 time.
Remote-Controlled Trunk Release Output	TRUNK Button	22	Press TRUNK Button, the siren will chirp 2 times.
Remote Start	START Button	23	Press START Button, the siren will chirp 3 times.
Silent Arm/Disarm	SILENT Button	24	Press SILENT Button, the siren will chirp 4 times.
Remote-Controlled Valet Channel 6	ARM/DISARM + START Buttons	25	Press ARM/DISARM + START Buttons, the siren will chirp 5 times.
Remote-Controlled Accessory Output	ARM/DISARM + SILENT Buttons	26	Press ARM/DISARM + SILENT Buttons, the siren will chirp 6 times.
Remote-Controlled Sensor Bypass	TRUNK + SILENT Buttons	27	Press TRUNK + SILENT Buttons, the siren will chirp 7 times.
Temperature-Controlled Start Active/Inactive	TRUNK + START Buttons	28	Press TRUNK + START Buttons, the siren will chirp 8 times.
Channel 9 Remote-Controlled Accessory Output	SILENT + START Buttons	29	Press SILENT + START Buttons, the siren will chirp 9 times.
One-Step Remote Code Learning	ARM/DISARM Button	30	Press ARM/DISARM Button, the siren will chirp 1 time.
Instant Remote Control Code Deletion	—	31	Wait 3 seconds, the siren will chirp twice, all codes are erased out of memory.

Model : RangeMaster super heterodyne receiver

FCC ID : I5M5914

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.