

AVISTAR**T** **6500**

*Remote Engine Starter &
Vehicle Security System*

Installation Manual



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Important Information

Recommended Installation Tools

Voltmeter

Wire Strippers

Electric Drill & Bits

Phillips Screwdriver

Convoluted Tubing *

Solder Gun *

Wire Crimpers

Shrink Tube or Electrical Tape

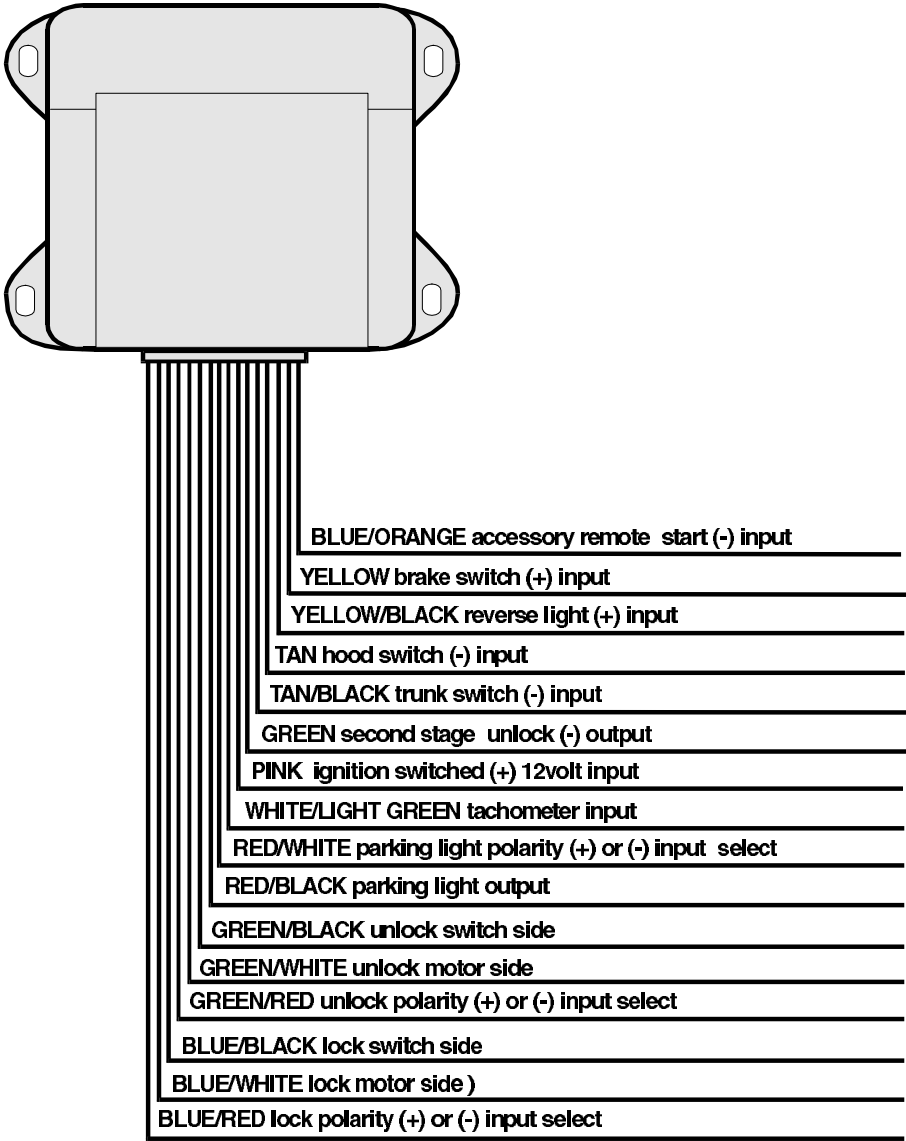
** Optional*

Recommended Procedures

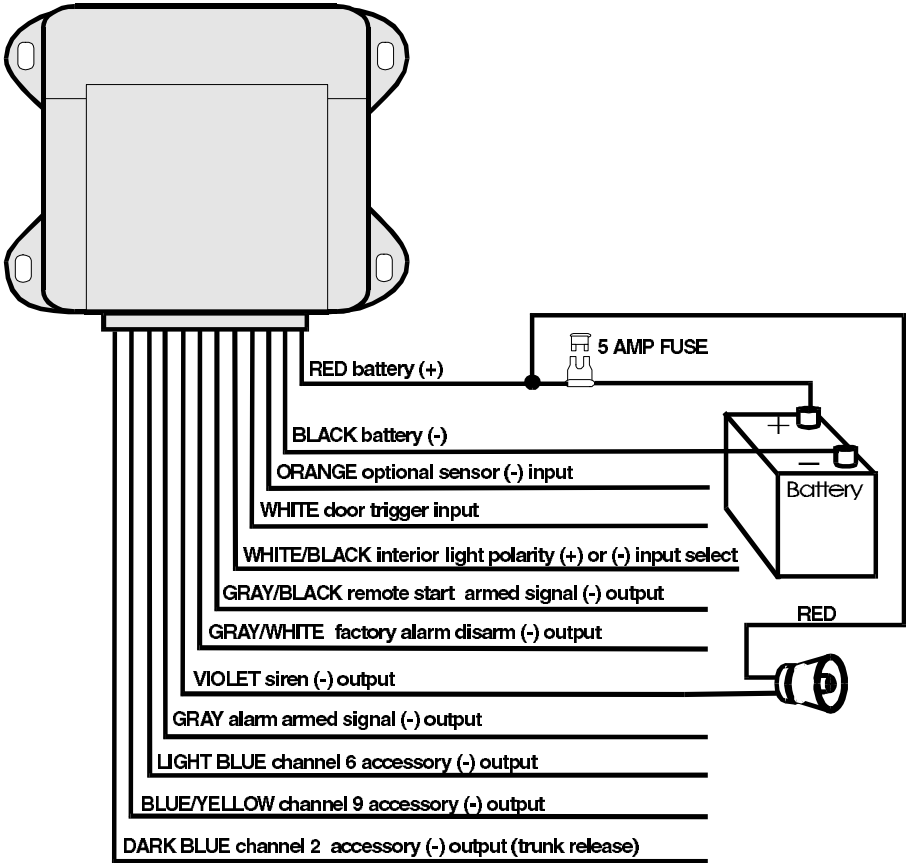
1. Test all circuits with a voltmeter.
2. Make all wiring connections with the supplied solderless crimp connectors. **DO NOT** twist wires or use scotch-lok connectors.
3. Route the small and large **RED, RED/WHITE** and **BLACK** wires from the control unit directly to the battery.
4. Keep extensions 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.

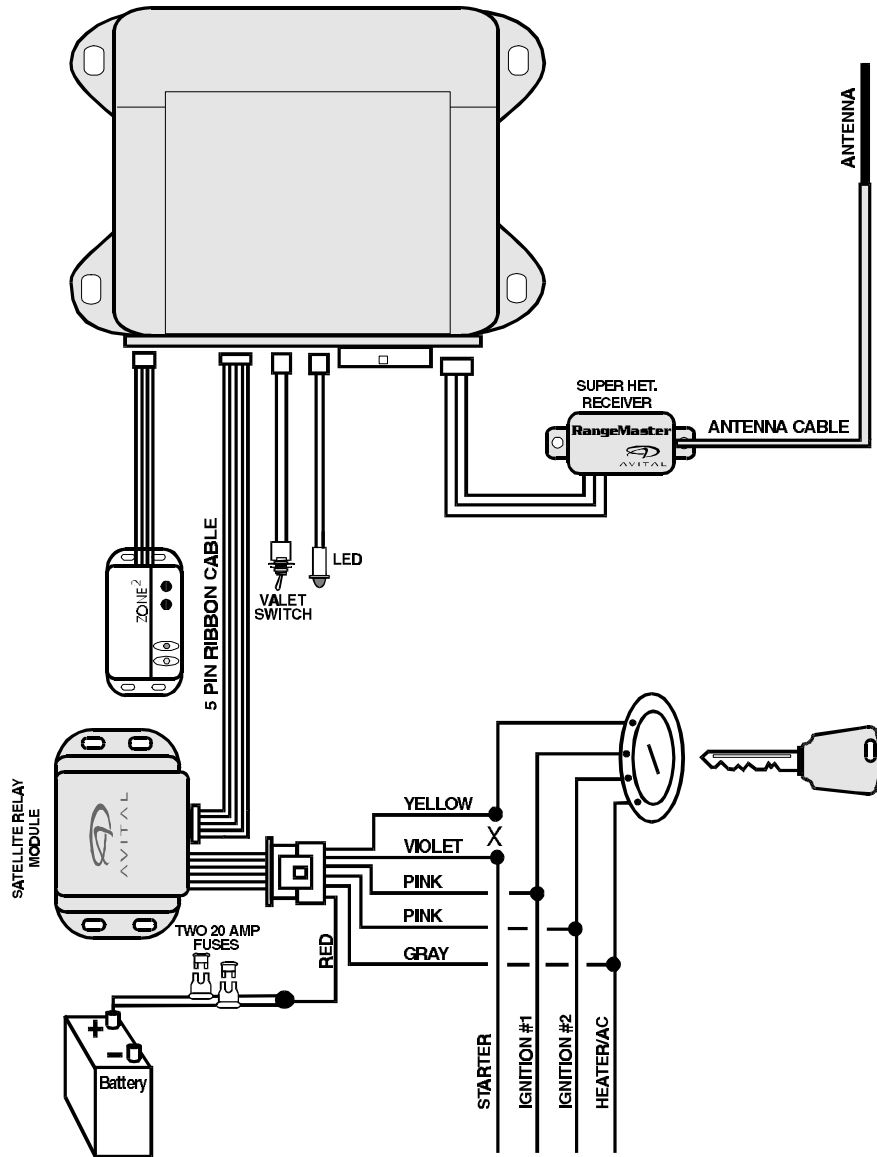
Main Wiring Diagram - 16 Pin



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 / AC 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 ¼" 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 ¼" 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 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



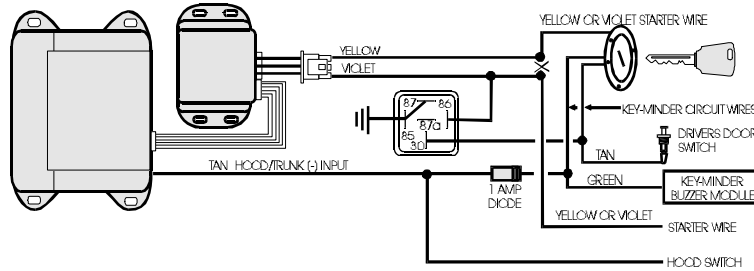
CAUTION: Be sure there is at least 5 feet of unobstructed clearance at the front and rear of the vehicle. Make sure to alert anyone near the vehicle you are testing that the vehicle may move forward slightly.

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.

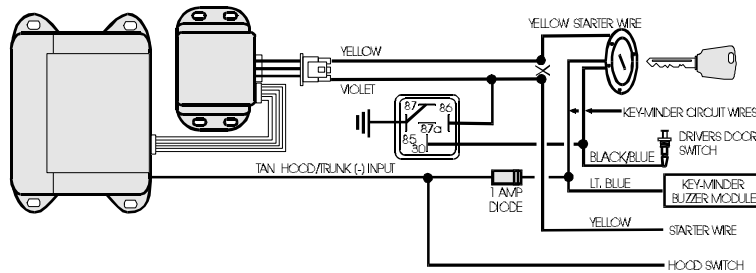
All vehicles have a "key in the ignition" reminder circuit (key minder) that will sound a chime or buzzer while the key is in the ignition and the driver's door is open. The following diagrams will illustrate how to interface the key-minder wires and a relay to prevent the vehicle from remote starting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

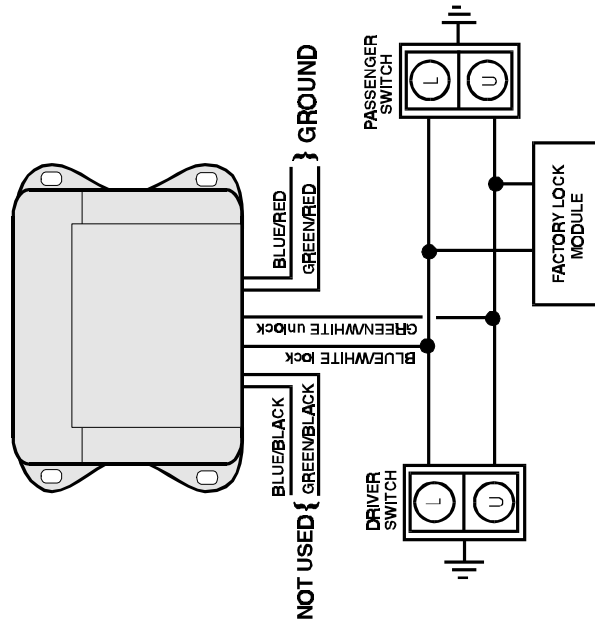
General Motors Sport Utility Vehicles, Trucks and Column Shift Passenger Vehicles



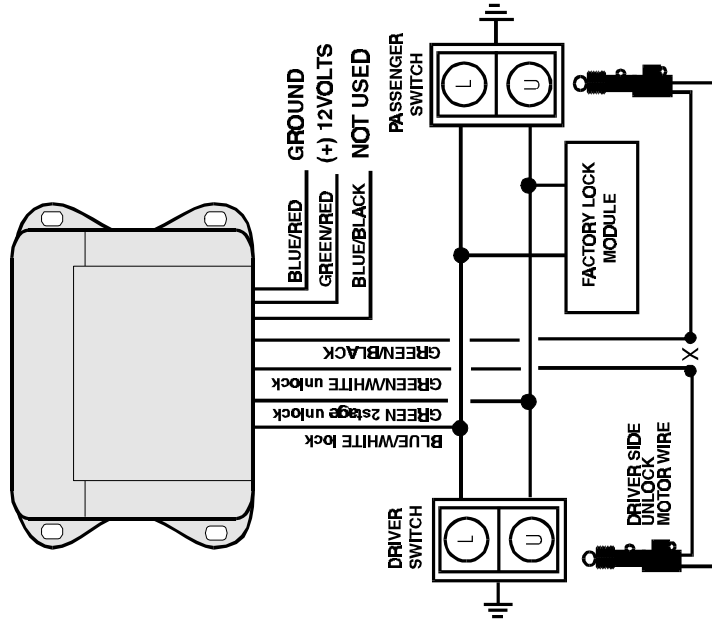
Dodge Dakota Pickup Trucks



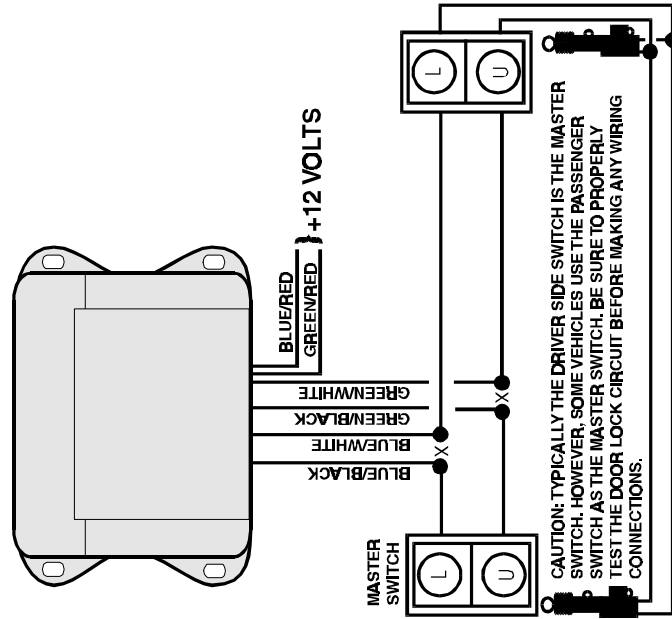
Negative Trigger Door Locks



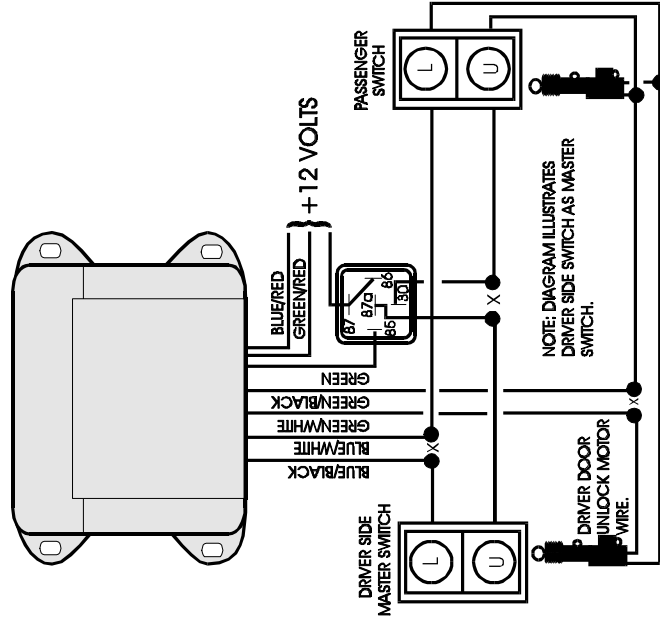
Negative Trigger Door Locks
Two Stage Door Unlock



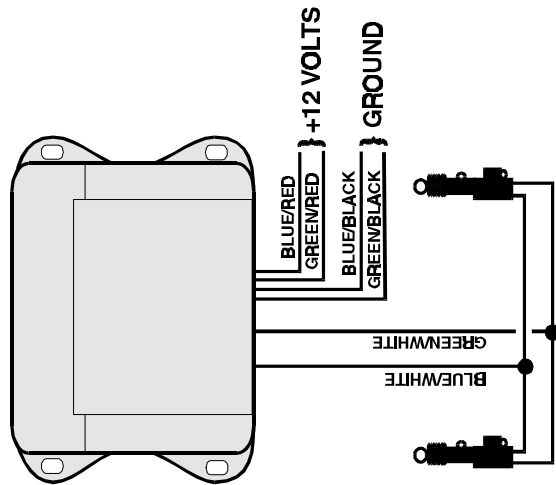
Reverse Polarity Door Locks



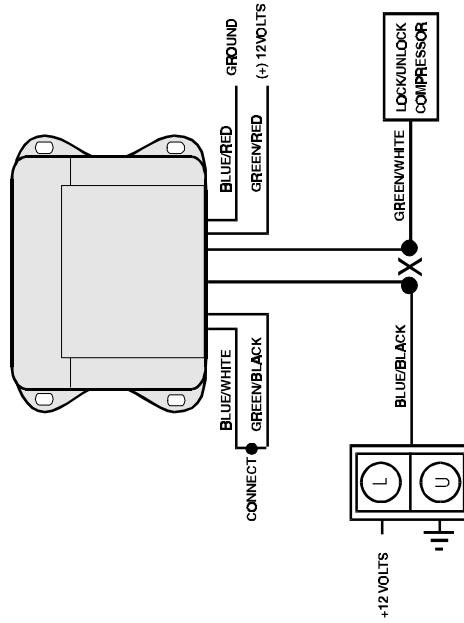
Reverse Polarity Door Locks
Two Stage Door Unlock



Adding Door Lock Actuators



One Wire Lock/Unlock
Mercedes/Audi



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	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.



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Part Number: 32-6500

AviStart 6500 Installation Manual