

1-2 SECURITY FEATURES

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1-2.1 Electric Compartment Locks

1-2.1.1 Entrance Door Dead Bolt Lock Operation

The entrance door has an automotive style two position catch. The second position is required for FMVSS certification. For maximum security and minimum wind noise be sure the door is fully closed. A dead bolt lock is also provided for your security; however, it will only engage and retract if the door is fully closed. Should you inadvertently open the automotive latch with the dead bolt engaged, you will have to shut the door to retract the dead bolt.

Dead bolt can be activated from switches located on the upper right hand dash panel; the entrance door systems control panel, and the bedroom control panel.

1-2.2 Black Widow Security System

The security system that is supplied with this coach is the Black Widow Security System. Basic operation directions for this system are as follows:

1-2.2.1 About Your Black Widow Security System

The security systems combine the benefits of easy-to-use convenience with “no nonsense” protection of person and property. Please review this manual to become familiar with your Black Widow vehicle security system. To operate your security system, the three principle components are first described: the Remote Control Transmitter, the Red Status Indicator Light, and the Easy Valet™ Switch.

1-2.2.2 Standard Features

The system has the following standard features:

- 5-button remote transmitter
- Status indicator (LED)
- Valet/Service mode switch
- Remote Start capabilities
- Extended Range Receiver
- Multi-tone siren (120 dB)
- Dual stage impact detector
- Remote panic
- Valet mode
- Remote sensor bypass
- Passive or active arming
- Stop and Go Feature
- Auto Cold Start
- Flashing Parking Lights
- Auto Rearm
- Passive/Active Arming
- Bay Door Release
- Rear Engine Door Release

1-2.2.3 Optional Features

This system has many optional features that may require additional parts and/or labor. Please contact your dealer for more details.

Remote keyless entry (Door lock/unlock)

- Illuminated entry
- LCD FM 2-way Remote
- Horn honk
- Window roll-up
- Back up battery
- Additional sensors: glass breakage/microwave

NOTE: Some features may not be appropriate for certain models. Automatic transmission and electronic fuel injection are required, on models using this system.

1-2.2.4 Remote Transmitter Functions

Button 1 Arms the system and locks the doors*. Button 1 also activates the Panic feature.

Button 2 Disarms the system and unlocks the doors*.

Button 3 Activates the Bay Door Release feature.

Button 4 Activates the Remote Start Feature.

Button 5 Auxiliary Shift Key.

Button 5 then 4 Activates the 2nd auxiliary function.

1-2.2.5 Arming Operation

To arm the system press transmitter button 1:

- The siren will chirp once.
- The parking lights will flash once.
- The doors will lock*.
- The LED will turn solid for 10 seconds then start flashing slowly, the system is now armed.

While the system is armed the alarm will trigger if:

- A door is opened.
- The bay door is opened.
- The shock sensor detects an impact to the vehicle.

When the alarm is triggered the siren will sound, the parking lights will flash, and the horn will honk*. If the alarm is triggered while the remote start is engaged, the remote start will immediately shut down.

1-2.2.6 Passive Arming

The passive arming feature allows the system to arm automatically without user intervention. This programmable feature may be enabled during installation.

To arm the system passively:

1. Turn the ignition key off.†
2. Exit the vehicle and close all doors.
 - The LED will start flashing rapidly to indicate that the system is preparing to arm. (The system can be armed at any time by pressing transmitter button 1.)
 - The siren will chirp 30 seconds after the last door is closed to indicate the system is now armed.
 - The doors will lock‡*

*Optional feature

† The ignition must have been on for at least 10 seconds prior to exiting the vehicle or Passive Arming will be bypassed.

‡ If the Passive Locking feature was enabled during installation.

1-2.2.7 Disarming Operation

To disarm the system press transmitter button 2.

- The siren will chirp twice ¥
- The parking lights will flash twice. ¥
- The doors will unlock. †
- The dome light will turn on for 30 seconds. *

¥ If the siren was triggered while away, the system will respond with 3 chirps and 3 parking light features.

† If the Passenger Unlock Feature is enabled, pressing the unlock button will unlock only the driver's door. Pressing the unlock button again unlocks all doors.

1-2.2.8 Tamper Alert

If the alarm was triggered while away from the vehicle, the siren will chirp 3 times on disarming for tamper indication. After disarming the alarm, enter vehicle and turn ignition on. The LED will flash the zone that was triggered 5 times (see LED chart).

1-2-2.9 Auto Rearm

The Auto Rearm feature allows the system to automatically re-arm itself in the event the system is disarmed and ignition is not turned on within 30 seconds.

NOTE: This programmable feature may be disabled during installation. The Passive Arming feature and Auto Rearm feature are related. In order to disable the Auto Rearm feature, the Passive Arming feature must also be disabled during installation. This feature will not work on vehicles with the illuminated entry feature enabled.

1-2.2.10 Silent Arming/Disarming

Press transmitter button 5 (the Shift Button) then the Arm or Disarm button for one-time silent operation.

1-2.2.11 Chirp Delete

For full time silent operation, the ARM/DISARM chirps can be permanently disabled. This feature must be programmed during installation.

1-2.2.12 Ignition Lock*

The ignition locking feature allows the doors to automatically lock when the ignition key is turned on, and automatically unlock when the ignition key is turned off. This feature may be disabled during installation.

1-2.2.13 Remote Panic

In the event of an emergency (PANIC) situation, the system's siren can be triggered for 45 seconds to attract attention. To activate the Panic Feature, press transmitter button 1 for 3 seconds:

- The siren will sound.
- The parking lights will flash.

Press button 1 to exit panic mode and rearm the system. Press button 2 to exit panic mode and disarm the system. The Panic Feature will operate when the ignition is on.

1-2.2.14 Emergency Override

If the transmitter becomes lost or fails to operate, the system can be disarmed by using the emergency override feature.

To override the system:

1. Enter the vehicle.
 - Because the system is armed, the siren will sound.
2. Turn on the ignition key.
3. Press the Valet switch for 5 seconds.
 - The siren will stop sounding.
 - Starter defeat bypassed.

*Optional feature

† The ignition must have been on for at least 10 seconds prior to exiting the vehicle or Passive Arming will be bypassed.

‡ If the Passive Locking feature was enabled during installation.

1-2.2.15 Valet Mode

When the system is placed in the Valet Mode the security system will be disabled. However, the optional keyless entry and remote start features will still function if installed.

NOTE: Remote Start feature may be disabled during valet mode if programmed during installation.

To enter the Valet Mode:

1. Be sure the system is disarmed.
2. Turn the ignition key on.
3. Press and hold the valet/service mode switch for 3 seconds.
 - The siren will chirp once.
 - The LED will turn on solid indicating the system is in Valet Mode.

To exit Valet Mode:

1. Turn the ignition key on.
2. Press and hold the valet/service mode switch for 3 seconds.
 - The LED will turn off.
 - The Siren will chirp 2 times.

1-2.2.16 Bay Door Release

Press button 3 for approximately 2 seconds to open the bay door.

1-2.2.17 Bay Door Disarm

The Bay Door Disarm feature allows the alarm to disarm automatically whenever transmitter button 3 is used to activate the optional trunk release. This eliminates having to first, disarm the alarm before activating the bay door release.

NOTE: The feature is programmed during installation.

1-2.2.18 Remote Sensor Bypass

To arm the system and bypass the shock sensor, press button 1 to arm, then within 2 seconds press button 2 again. The siren will chirp 5 times and sensors will be ignored until the system is disarmed and rearmed.

1-2.2.19 Optional Secure Override Code

If your system was programmed to override with a personal override code-pressing the override switch from 1 to 15 times.

To disarm the system with your personal override code please use the following steps:

1. Open Door, Alarm system will trigger
2. Turn ignition key to on.
3. Press the override switch to the selected number of times and hold on the last one for 5 seconds until the alarm turns off.

1-2.2.20 Remote Starting the Motor Home

IMPORTANT: Only start the motor home in a well ventilated area. Do not use in a closed garage or indoors. Be sure to familiarize yourself with all features prior to using this product.

To remote start the motor home:

Press the transmitter button 4 for 3 seconds.

- The parking lights turn on.
- Approximately 2 seconds later the system will attempt to start the motor home.
- Once the motor home has started, the heater or air conditioner will turn on and run for the pre-programmed time (15 or 25 minutes). If the engine fails to start on the first attempt, it will repeat the starting procedure 2 more times. If the vehicle fails to start after a total of 3 times the system will shut down.

Driving motor home after Remote Starting:

Unlock the door by pressing button 2 on the remote transmitter. Enter motor home, turn ignition key to the on position.

NOTE: Do not turn the key all the way to the start position as you may damage the starter.

Once the ignition key is turned to the on position, press the brake pedal and shift the motor home into the proper gear and you may now drive the motor home.

NOTE: If brake pedal is pressed prior to turning on ignition, engine will turn off.

1-2.2.21 Remote Engine Shutdown

If the motor home has been remotely started and you desire to turn the vehicle off, simply press and hold button 4 on the remote transmitter for three seconds. After the motor has turned off the doors will relock. This feature must be programmed during installation.

1-2.2.22 Auto Cold Start

This feature allows the system to start and run the motor home every one or two hours (selectable by the installer) for a period of 24 hours. This allows the engine to remain at an operational temperature in extremely cold weather. Auto Cold Start must be enabled during installation or it cannot be engaged.

Engaging the Auto Cold Start feature:

To turn Auto Cold Start on:

1. Press and hold the brake pedal.
2. While holding the brake pedal down, push the Valet switch and transmitter button 2 for two seconds.
 - The parking lights will flash four times to indicate the Cold Start feature is engaged.
3. Release the brake pedal.

Disengaging the Auto Cold Start feature:

The Auto Cold Start feature can be deactivated in one of three ways:

- Press the brake pedal.
- Turn on the ignition.
- Remote start the motor home using the transmitter.

1-2.2.23 Stop and Go

The Stop and Go features allows the motor home to remain running without use of the ignition key during short stops.

To activate the Stop and Go feature:

1. With engine running push transmitter button 4 (on FM 2-way press button 2).
 - The parking lights will turn on.
2. Remove the key from the ignition.
3. Exit the motor home and lock the doors manually or using transmitter button 1.

To resume driver control:

1. Unlock the doors manually or by pressing transmitter button 2.
2. Turn on the ignition.
 - The motor home resumes driver control.

1-2.2.24 Safety Features

The system will not start the motor home if the brake pedal is pressed. Also, if the brake pedal is pressed while remote running, the remote start will shut down.

1-2.2.25 Replacing Lost or Stolen Remote Transmitters

This system can "learn" a maximum of 4 remote transmitters. To add a transmitter or replace lost/stolen transmitters, please consult with an authorized dealer.

SYSTEM REFERENCE INDICATORS

STATUS INDICATOR (LED) FUNCTIONS

On Solid = Valet Mode
 Slow Flash = System Armed
 Rapid Flash = Passive Arming

TAMPER ALERT LED FUNCTIONS

1 Flash = Sensor #2
 2 Flashes = Shock Sensor
 4 Flashes = Door
 5 Flashes = Bay Door
 flash-flash-pause-flash-pause = Shock Sensor

PARKING LIGHTS FUNCTIONS

On Solid = Coach Remote Starting
 Flash 1x = System Armed
 Flash 2x = System Disarmed
 Flash 3x = Tamper indication (after disarming)
 Flash 4x = Defective zone warning (after arming)

1-2.2.26 Entering Programming

To enter System Programming:

1. Turn on ignition.
2. Within 5 seconds, press valet switch 5 times.
 - The siren will chirp 3 times, indicating that you have entered Programming.
3. Press the valet switch the number times equal to the Feature you want to change.
 - The siren will chirp each time the valet switch is pressed.
4. Within 5 seconds, press the transmitter button corresponding to the desired operating mode for that Feature.
 - The siren will chirp to indicate the setting.
 - One chirp = Button 1
 - Two chirps = Button 2
 - Three chirps = Button 3
5. Repeat steps 3 and 4 to change additional features.
6. Turn off ignition to save changes.

NOTE: The optional FM transmitter may not be used for feature programming.

PROGRAMMABLE FEATURES				
Step	Function	Button 1	Button 2	Button 3
1	Arming Mode	Active	Passive	
2	Auto Rearm	Off	On	
3	Normal/Silent Arming	Normal	Silent	
4	Ignition Locking	On	Off	Override Code Set
5	Ignition Locking	All Doors	Driver Only	Off
6	Door Unlock Pulse	Single	Double	
7	Door Lock Pulse Width	1 Second	3 Seconds	
8	Passive Locking	Off	On	
9	Entry Delay with Passive Arming	Off	On	
10	Bad Zone Report	5 Seconds	Off	
11	Auxiliary 2 Auto Activate on Arming	Off	On	
12	Auxiliary 1 Output	Momentary	10 Seconds Timed	Latched
13	Auxiliary 2 Output	Momentary	10 Seconds Timed	Latched
14	Bay Door Disarm Feature	Off	On	
15	Remote Start in Valet Mode (optional)	Enabled	Disabled	
16	Lock with Remote Start	On	Off	
17	Lock with Remote Shutdown	On	Off	
18	Engine Run Time	12 Minutes	24 Minutes	
19	Cold Temperature Starting	Every 2 hours	Every hour	
20	Engine Start Sense	Smart Start	Tach Start	
21	Engine Programming	Learn RPM	Gas Engine	Diesel Engine
22	FM Module Program (optional)	Learn Module	Learn FM Transmitter	
23	Ignition 2 Relay Programming	Ignition 2	Accessory 2	Starter 2
24	Horn Output	Horn Output	Ignition 3 Output	

1-2.2.27 Programmable Features

- Arming Mode.** Select between manual arming (Active) or automatic arming (Passive).
- Auto Rearm.** Automatically rearms the system in case of accidental disarming. The system must be armed for at least 10 seconds before disarming, and the bay door must not be opened or Auto Rearm will be bypassed.
- Arming Chirps.** Select Normal or Silent Arming.
- Ignition Locking / Override Code Set.** Automatically locks the doors when the ignition is turned on. The system will not lock the doors if any door is open with then ignition is turned on. Pressing Button 3 during this step enters the Override Code Set mode. Press the valet switch the desired number of times from 1-15 to set the code.
- Ignition Unlocking.** Automatically unlocks the doors when the ignition is turned off. Select from all door unlock, driver's door only unlock, or no unlock.

NOTE: Driver's door only unlock requires wiring the system for Passenger Unlock.

- Door Unlock Pulse – Single/Double.** Selects between a single pulse or a double pulse door unlock output.
- Door Lock Pulse Width.** Selects between a 1-second and a 3-second output for motor homes equipped with vacuum door locking systems.
- Passive Locking.** Selects whether or not the system will automatically lock the doors with Auto Rearm and Passive Arming.

9. **Door Entry Delay with Passive Arming.** When selected, the door input trigger will be delayed for 15 seconds, allowing access to the emergency override switch. Only delays when the system is armed passively.
10. **Bad Zone Report.** Siren will chirp 3 times if any zone remains open 5 seconds after arming. If motor home has delayed dome light, program this feature to OFF.
11. **Auxiliary 2 Auto Activate on Arming.** When selected, the Auxiliary 2 output will pulse upon system arming to activate accessory items when the system is armed.
12. **Auxiliary Function 1** – Selectable for Momentary, Timed or Latched operation.
When Momentary operation is selected, the system will provide an output for as long as the Transmitter button is held.
When Latched operation is selected, the system will provide an output that turns on when the transmitter button is pressed and turns off when the transmitter button is pressed again.
When Timed operation is selected, the system will provide an output that turns on for 10 seconds each time the transmitter button is pressed. If the button is pressed again during the 10 seconds, the output will turn off.
13. **Auxiliary Function 2** – Selectable for Momentary, Timed, or Latched operation.
14. **Bay Door Disarm Feature.** When selected, activating the Auxiliary 1 function to open the bay door will automatically disarm the system.
15. **Remote Start in Valet Mode.** Determines if the remote start feature will operate when the alarm is set for valet mode.
16. **Lock with Remote Start.** Automatically locks the doors after successfully remote starting.
17. **Lock with Remote Shutdown.** Automatically locks the doors 5 seconds after the remote start is shut down.
18. **Engine Run Time.** Selects between 12 and 24 minutes run cycle.
19. **Cold Temperature Starting.** Allows the vehicle to automatically start and run every 2 hours or every hour for severe cold weather.
20. **Engine Start Sense.** Selects between Smart Start for tachless operation, or Tach Start for actual RPM monitored starting. (see Step #21)
21. **Engine Programming.** Pressing transmitter button 1 “learns” the RPM. For diesel vehicles, after learning Tach signal enter step #21 again and set for diesel by pressing button 3.
22. **FM Transmitter Module.** Pressing button 1 learns the add-on FM module ID so the FM transmitter can operate the system. Pressing button 2 learns the FM transmitter. After pressing button 2 on the AM remote, press transmitter button 1 on each FM remote (max 2).
23. **Ignition 2 Relay Programming.** Selects between second ignition, second accessory, or second starter output operation for heavy gauge BROWN wire.
24. **Horn Output.** Selects between horn output or ignition 3 output for the horn wire.

Engine Programming for Remote Start

In order for the system to properly start and run the motor home, the unit must be able to determine if the motor home is cranking or if the engine is actually running. This system is equipped with two means of detecting the engine's run status: Smart Start and Tach Start.

The **Smart Start** feature detects the engine's run status using specially designed software that interprets certain characteristics of the engine, and does not require a connection to the motor home's tachometer wire. This feature allows a faster installation, but may not be compatible with all motor homes, or under extreme temperatures.

The **Tach Start** feature requires connection to the motor homes tachometer wire, or an injector wire if the tach wire is not available. The Tach Start feature provides reliable operation with virtually any vehicle and in severe temperature extremes. When the Tach Start feature is selected, the vehicle's tach signal must be "learned" through system programming. (see below)

To Program the Tach Start feature:

1. Enter System Programming, (see Entering Programming)
2. Program Step #20 to Tach Start using transmitter button 2.
3. Re-enter system programming, and go to Step #21.
4. Immediately start the vehicle with the key to avoid the programming sequence timing out.
5. Press transmitter button 1 to learn the vehicle's tach signal.
 - The siren will chirp and the LED will flash once if the tach was learned.
 - The siren will chirp and the LED will flash 5 times if the tach was not learned.
6. Turn off ignition to save settings.

The default setting for the engine mode is Gas Engine. For diesel vehicles, the engine type for Step #21 must be set to Diesel Engine. When programmed for diesel engines, the BLUE/YELLOW wire (glow plug input) is monitored to make sure the glow plugs have warmed up before the engine begins cranking. If the glow plug wire is not connected, the unit has a built-in timer that waits 15 seconds before cranking the starter.

Complete Default Reset

Following this procedure will set all User and Installer Programming Parameters to factory default settings.

1. Enter System Programming.
2. Press Transmitter Button 3.
 - The siren will chirp 6 times indicating the reset signal was received.
 - All Programming options are now set to factory default settings.
3. Turn ignition off.

Test System and Adjust Shock Sensor

Arm, disarm, and start the system, checking that the siren and parking lights are functioning normally. Make sure that the programmed features are performing correctly, ie.: ignition locks, passive arming, passive locks, etc.

1. Test the doors and bay door inputs (make sure all doors trigger the system.)
2. Adjust the shock sensor. (see Real-time Sensor Adjustment Mode).
3. Arm the system and disarm it with the ignition and valet switch.
4. If programmed to passively arm make sure that the system arms properly.
5. Tie up wire harness, and replace any under dash panels.
6. Make sure the customer has physical knowledge of the location of the valet/override switch.

Real-time Sensor Adjustment Mode

This mode allows active testing of the shock sensor and optional sensor input making adjustments without arming the alarm.

NOTE: Arm and Disarm chirps must be enabled for proper operation. Sensor Adjustment Mode does not operate with the optional FM transmitter.

To Enter Sensor Adjustment Mode:

1. Turn the ignition on.
2. Press the Shift Button (Button 5) 3 times, then press Button 3.
 - The siren will chirp 4 times, indicating that the sensor is ready to be tested.
3. Test the sensitivity. The siren will chirp to indicate a sensor is triggered.
 - One chirp indicates the shock sensor.
 - Two chirps indicates the warn away.
 - Three chirps indicates the optional sensor.
4. To make shock sensor adjustments:
 - Turn the adjustment screw on the sensor clockwise to increase the sensitivity.
 - Turn the adjustment screw on the sensor counter clockwise to decrease the sensitivity.
5. Turn off the ignition when the desired sensitivity level is reached.

Adding Transmitters

To add a new transmitter to the system have the desired transmitters ready and follow the Code Learning sequence.

To Enter Code Learning Mode:

1. Turn the ignition on, off, on, off and leave on.
 - The siren will chirp.
2. Press the Override switch.
 - The status LED will turn on red.
 - The siren will chirp.
3. Press the Lock Button on the transmitter.
 - The siren will chirp once.
4. Press Lock Button on the transmitter again.
 - The siren will chirp twice.
5. Repeat steps 3 and 4 for each additional transmitter.
6. Turn off the ignition.
 - The siren will chirp 3 times.

1-2.3.28 Troubleshooting

Problem	Probable Cause	Suggested Correction
Alarm does not operate.	Alarm in Valet Mode; Ignition input has voltage on it; Missing +12V or ground.	Take alarm out of Valet Mode, Turn key off and verify yellow wire is connected to correct ignition wire; Check +12V and ground connections.
Alarm will not Passively Arm.	Unit is not programmed for Passive Arming, wrong polarity door input wire, Yellow ignition input has 12V+ on it.	Program step #1 for Passive Arming, Correct door switch polarity; Change Ignition input wire; make sure alarm is not in Valet.
Alarm will not enter Code Learning Mode.	Ignition was not left in the On position after turning it On and Off three times; Sequence not performed rapidly enough (5 sec.); Valet/Override Switch is defective or not plugged in.	Leave Ignition in On position; Repeat procedure quicker, Replace Valet Switch.
Alarm chirps 4 times 5 seconds after system is Armed.	Factory Dome Light Delay is longer than 5 seconds; Door open or defective pin switch; Shock sensor is not properly adjusted or defective.	If dome light delay is longer than 5 seconds program step #10 to OFF. Replace defective pin switch; Adjust or replace shock sensor.
Parking lights do not flash.	Wrong wire connected, Wrong polarity selected, or RED Wire #1 not connected to battery power.	Connect WHITE wire to proper wire, Reverse jumper polarity (see Jumper Settings), Connect RED wire #1 to +12V.
Door locks do not lock or unlock correctly, or action is reversed.	Defective GREEN or BLUE wire in door lock connector plug, GREEN and BLUE wires reversed, or wrong door lock wiring diagram used.	Check GREEN and BLUE wires on door lock connector plug; Verify vehicle's type of door lock system; Reverse wiring to door relays.
Illuminated Entry does not activate on upon disarm.	External relay required, or Wrong polarity wired for relay.	Add relay.
Range is poor.	Antenna wire is grounded; Module is picking up interference from coaches electrical system.	Make sure antenna is not connected to ground; Relocate module or route antenna away from computer modules.
Coach will not remote start.	Safety inputs are triggered.	Check Brake Switch input (+) or Bay Door Input (-).
Coach cranks and begins to run, then shuts off.	Smart Start is not compatible with this coach; Coaches tach signal is not learned.	Connect the BLACK/GRAY wire, and program the unit to learn the coaches tach signal.
Keyless entry does not operate with remote.	Wrong door lock polarity; Wrong lock wires connected.	See Bypassing Factory Theft Deterrent Systems.
Ignition triggered door lock feature does not operate.	Yellow wires shows +12V; Door is open; Door trigger input wrong polarity.	Connect yellow wire to proper ignition wire; Close door; Change door trigger polarity.
Coach horn honks when system disarmed and door is opened.	Coaches factory security system needs to be disarmed.	Locate the disarm wire (usually located in driver's kick panel) and connect VIOLET/WHITE wire to disarm factory system.
Coach will not start and alarm does not function properly.	Coach battery dead or drops below 9 volts when trying to start the coach.	Change or replace battery.

1-2.3 Entrance Door Air Lock

An air-operated lock is installed at the top of the entrance door for a tight seal. This lock engages automatically when the unit is put in drive after reaching 3 mph. This lock also disengages when unit drops below 3 mph. An override switch is located on the main dash panel. This keeps door locked all the time until the unlock switch is manually pushed.