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Congratulations

Your new Passport SR1 is the most advanced remote radar detector available. Passport SR1 includes full X, K, and SuperWide Ka radar capability, front and rear laser detection, Digital Signal Processing for superior range and falsing rejection, our patented Mute and AutoMute, audible and visual band alerts, and all the performance you’d expect from Escort.

In addition, the new Passport SR1 introduces a new level of revolutionary performance and innovative features.

- Breakthrough 8-sensor long-range laser detection circuitry
- New 4-bit A/D converter for improved radar detection range
- Advanced EZ Programming lets you instantly set 10 features
- New AutoSensitivity™ mode, plus Highway and City settings
- Ultra-bright Hewlett-Packard Matrix Display with 280 LEDs
- New ExpertMeter™ tracks and displays up to 8 radar signals
- Detects all Safety Radar signals

If you’ve used a radar detector before, a review of the Quick Reference Guide on page 3, and the EZ Programming information on pages 8 and 9 will briefly explain the new features.

If this is your first detector, please read the manual in detail to get the most out of Passport’s performance and features.

Please drive safely.

IMPORTANT INSTALLATION WARNING

Your new Passport must be installed by a professional. Car Audio specialists and many car dealers can install Passport for you.

Attempting to install Passport SR1 without expertise in automotive electronic installations can cause personal injury during the installation, or can damage your Passport or your vehicle. If your vehicle is damaged during installation, its safety systems may be compromised, which could cause personal injury or property damage.
**Power/Volume Control**
Rotate the thumbwheel to turn Passport on and set the volume.

**AutoMute**
Passport’s patented AutoMute automatically reduces the volume level of the audio alert. Pg 4. If you prefer, you can turn AutoMute off. Pg 8

**Matrix Display**
Passport’s display will show “Highway”, “Auto,” or “City” as its power-on indication. Pg 6. If you prefer, you can choose other power-on indications. Pg 8-10
During an alert, the display will indicate radar band, and a precise bar graph of signal strength. Pg 6
You can program Passport for the ExpertMeter, which displays up to 8 radar signals at once. Pg 6-7
The display can also show Safety Radar text messages. Pg 18-19

**City Button**
Switches between AutoSensitivity, City, and Highway settings. In general, we recommend the Auto mode. Pg 4

**Mute Button**
Briefly press this button to silence the audio for a specific alert. (The audio will alert you to the next encounter.) Pg 4

**EZ Programming**
Passport is ready to go– just turn it on. But you can also easily change 10 features for your preferences. Press both buttons to enter the Program Mode, then easily Review or Change your settings. Pg 8-12
Power and volume control
To turn Passport on and adjust the alert tone volume level, rotate the thumbwheel on Passport's Display/Controller. Turn the control to the left to increase the audio volume. When you turn Passport on, it goes through a sequence of alerts.

If you prefer, you may program your Passport for a shorter power-on sequence. See the EZ Programming section for details.

Power-on indication
After Passport's start-up sequence is complete, the matrix display will show “Highway”, “City”, or “Auto” to show which operation mode is selected.

If you prefer, you can select alternate power-on displays. See the EZ Programming section for details.

AutoMute
Your Passport has our patented AutoMute feature. After Passport alerts you to a radar encounter at the full volume, it automatically mutes the volume to a lower level. This keeps you informed without the annoyance of a continuous full-volume alert.

If you prefer, you can turn the AutoMute feature off. See the EZ Programming section for details.

Mute
The Mute Button, located on Passport's front panel, allows you to totally silence the audio alert during a radar encounter.

To mute the audio for a single specific signal, briefly press the Mute Button. After that radar encounter has passed, the mute will automatically reset and the audio will alert you to the next encounter.

Auto / Highway / City Switch
The City button selects Passport’s sensitivity mode. We recommend the “Auto” (AutoSensitivity) mode for most driving.

Passport’s new AutoSensitivity mode provides long-range warning, with minimum false alarms. In this mode, Passport’s internal computer continuously analyzes all incoming signals and intelligently adjusts the sensitivity circuits.

You can also select conventional “Highway” and “City” modes. When driving in urban areas where annoying X-band intrusion alarms and door openers are common, City Mode can be engaged to lower X-band sensitivity and reduce X-band alerts. Full sensitivity is maintained on all other bands. You can customize Passport’s City Mode sensitivity. See the EZ Programming section for details.
Controls and Features

Display Brightness
Passport’s display brightness is automatically adjusted to suit ambient lighting conditions in your car. (The light sensor is located between the City button and the Mute button, so the display may dim momentarily when you block the sensor when pressing these buttons.)

If you prefer, you can program your Passport for a fixed brightness level (Maximum, Medium, Minimum, or Dark). See the EZ Programming section for details.

Dark Mode
If you set Passport to its Dark Mode with its EZ Programming, Passport changes to a very inconspicuous power-on indication: a very dim “AD”, “HD”, or “CD”. (In this display, the A, H, or C indicates Auto, Highway, or City, and the D indicates Dark.)

When Passport is in the Dark Mode, the display will not show visual alerts when Passport detects signals. Only the audible alert will tell you of detected signals.

See the EZ Programming section for more details.

Audible Alerts
For Radar signals:
Passport uses a Geiger-counter-like sound to indicate the signal strength and type of radar signal being encountered.

When you encounter radar, a distinct Audible Alert will sound and occur faster as the signal gets stronger. When the signal is very strong, the Audible Alerts will blend into a solid tone. This allows you to judge the distance from the signal source without taking your eyes from the road.

Each band has a distinct tone for easy identification. X-band = beep tone, K-band = raspy brap tone, Ka-band = double-brap tone.

For Laser signals:
Since Laser signals are a possible threat no matter how weak, Passport alerts you to all laser signals with a full laser alert.

For Safety signals:
If you have turned on the SWS and Safety Alert detection in Passport’s programming, Passport will alert you to these signals with a double-beep tone, and a corresponding text message. A complete listing of the text messages is on page 19.

If you haven’t programmed your Passport to decode the safety signals (see pages 8, 12, 19), it will still display them as strong K-band radar signals.
Signal Strength Meter

Passport’s new matrix display consists of 280 individual LED’s, to provide an intuitive ultra-bright display of signal strength and text messages.

When Passport detects radar, it displays the band of the radar (X, K, or Ka), and a precise bar graph of signal strength.

When Passport detects laser from the front, the display will show “LASER F.” When Passport detects laser from the rear, the display will show “LASER R.”

ExpertMeter

Passport’s new ExpertMeter option is an advanced display for experienced detector users. Please use Passport for a few weeks to get familiar with its other features before using ExpertMeter.

To use the ExpertMeter instead of the bar graph signal strength meter, you must select ExpertMeter in Passport’s EZ Programming (see pg 8 -12).

Passport’s standard signal strength meter only displays information about a single radar signal. If there are multiple signals present, Passport’s internal computer determines which is the most important threat to show on the bar graph meter.
However, Passport’s ExpertMeter simultaneously tracks up to 8 radar signals. It shows you detailed information on up to 2 Ka-band, 2 K-band, and 4 X-band signals.

ExpertMeter can help you spot a change in your normal driving environment; for example, a traffic radar unit being operated in an area where there are normally other signals present.

The ExpertMeter is actually a miniature spectrum analyzer. It shows what band each signal is, its relative frequency within the band, and its signal strength.

Above is the ExpertMeter Display if Passport was detecting 2 strong Ka-band, 2 strong K-band, and 4 strong X-band signals.

As you can see, there are vertical lines after each band designator. Each line shows a signal being detected. The height of each line shows the relative signal strength of that signal. The position of the line shows the relative frequency of the signal within the band.

NOTE: If you use ExpertMeter, the brief signal shown in the power-on sequence when you turn on your Passport will also be in ExpertMeter: an “X” with a single vertical line.

A few more examples will help you better see how the ExpertMeter works.

Here ExpertMeter shows 1 strong K-band signal, and 3 X-band signals, 2 strong and 1 weak.

Here ExpertMeter shows 1 weak Ka-band signal, and 3 weak X-band signals.

On very weak signals, there will not be a vertical line at all. This shows a very weak X-band signal.

ExpertMeter Details

The band designators (X, K, Ka) will stay on the display for a few seconds after the signal has passed. This allows you to see what the unit detected, even on very brief signals.

However, the vertical lines representing individual signals continuously change (several times a second) to give you a continuous instantaneous view of all radar signals present.

Note: even long-time detector users will require a significant time to get familiar with this new level of information about detected signals.
There are 10 user-selectable options so you can customize your Passport for your own preferences. The buttons that are normally used for CITY and MUTE are used to enter the Program Mode, to REVIEW your current program settings, and to CHANGE any settings as desired. Pages 10-12 explain each option in more detail.

### How to use EZ Programming

1. **To enter Program Mode, press both buttons and hold for 2 seconds.** (Passport will beep twice and display “Program”. Brightness is at maximum during programming.)

2. **Then press the REVIEW button to review the current settings.** (You can either tap the button to change from item to item, or hold the button to scroll through the items.)

3. **Press the CHANGE button to change any setting.** (You can either tap the button to change from setting to setting, or hold the button to scroll through all the options.)

4. **To leave the Program Mode, simply wait 8 seconds without pressing any button.** (The unit will display “Complete”, beep 4 times, and return to normal operation.)

(To quickly return to all of the factory defaults, press and hold the City and Mute buttons while turning on the unit.)

### An example

For example, here’s how you would turn Passport’s AutoMute feature off.

1. Enter the Program Mode by holding both buttons down for 2 seconds. Passport will beep twice and display “Program”.

2. Then hold the REVIEW button down. Passport will scroll through the categories, starting with Display (“Disp”), then Pilot Light (“Pilot”), then Power-on sequence (“PwrOn”), then Signal strength meter (“Meter”), then AutoMute (“aMute”).

3. Release the REVIEW button when Passport shows the AutoMute item. Since the factory setting is for AutoMute to be on, Passport will display “aMute ON”.

   (If you accidentally don’t release the Review button in time, and Passport goes to the next category, hold the Review button down again, and after Passport scrolls through all categories, it will begin again at the top of the list.)

4. Press the CHANGE button to change from “aMute ON” to “aMute OFF”

5. To complete the Programming, simply wait 8 seconds without pressing any button. Passport will display “Complete”, beep 4 times, and return to normal operation.
Overview of EZ Programming Options

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<thead>
<tr>
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<th>Setting Examples</th>
<th>Notes</th>
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<tr>
<td>DISPLAY</td>
<td>Disp STD, Disp VERT</td>
<td>*(Standard display) *(Vertical display)</td>
</tr>
<tr>
<td>PILOT LIGHT (Power-on indication)</td>
<td>Pilot HWY, Pilot H, Pilot H.&gt;, Pilot +, Pilot +., Pilot +&gt;</td>
<td>*(full word: Highway or Auto or City) *(letter: H or A or C) *(letter, with scanning dot) *(symbol: + or • or –) *(symbol, with scanning dot) *(scanning symbol)</td>
</tr>
<tr>
<td>POWER-ON SEQUENCE</td>
<td>PwrOn STD, PwrOn FST</td>
<td>*(standard power-on sequence) *(fast power-on sequence)</td>
</tr>
<tr>
<td>SIGNAL STRENGTH METER</td>
<td>Meter STD, Meter EXP</td>
<td>*(standard signal strength meter) *(ExpertMeter)</td>
</tr>
<tr>
<td>AUTOMUTE</td>
<td>aMute ON, aMute OFF</td>
<td>*(AutoMute on) *(AutoMute off)</td>
</tr>
<tr>
<td>AUDIO TONES</td>
<td>Tone STD, Tone LOUD</td>
<td>*(Standard tones) *(Loud tones)</td>
</tr>
<tr>
<td>CITY MODE SENSITIVITY</td>
<td>City STD, City LoX, City NoX</td>
<td>*(Standard City mode sensitivity) *(Low X-band sensitivity in City Mode) *(No X-band sensitivity in City Mode)</td>
</tr>
<tr>
<td>BRIGHTNESS</td>
<td>Brt AUTO, Brt MIN, Brt MED, Brt MAX, Brt DARK</td>
<td>*(Brightness adjusts automatically) *(Minimum brightness) *(Medium brightness) *(Maximum brightness) *(Dark Mode)</td>
</tr>
<tr>
<td>SAFETY WARNING SYSTEM</td>
<td>sws OFF, sws ON</td>
<td>*(Safety Warning System detection off) *(Safety Warning System detection on)</td>
</tr>
<tr>
<td>SAFETY ALERT</td>
<td>sa OFF, sa ON</td>
<td>*(Safety Alert detection off) *(Safety Alert detection on)</td>
</tr>
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*These are Passport’s factory settings.
Details of EZ Programming Options

Display
Disp STD (display standard)
This is the standard setting for use when Passport’s Display is mounted horizontally.

AUTO

DispVERT (display vertical)
This setting is used when Passport’s Display is mounted vertically, for example mounted to the side of a center console.

In this setting, Passport’s Display reads vertically, as this example shows.

Pilot Light (power-on indication)
Note: when you are using the Dark Mode, the display will only show HD, AD, or CD, (Highway-Dark, Auto-Dark, or City-Dark).

PilotHWY (full description)
In this setting, Passport will display "Highway," "City," or "Auto" as its power-on indication. (factory default)

Pilot H (letter)
In this setting, Passport will display "H" for Highway, "C" for City, and "A" for Auto.

Pilot H.> (Letter with scanning dot)
In this setting, Passport will display "H" for Highway, "C" for City, and "A" for Auto. Also, a single dot will continuously scroll across the display.

Pilot+ (symbol)
In this setting, Passport will display "+" for Highway, "." for Auto, and "-" for City.

Pilot+.> (symbol with scanning dot)
In this setting, Passport will display "+" for Highway, "." for Auto, and "-" for City. Also, a single dot will continuously scroll across the display.

Pilot+> (scanning symbol)
In this setting, Passport will display "+" for Highway, "." for Auto, and "-" for City. Each will continuously scroll across the display.
Details of EZ Programming Options

Power-on Sequence

PwrOnSTD (standard)
In this setting, each time you turn on Passport, it will display "Passport", "SR-1", "LASER", "Ka-band", "K-band", "X-band", followed by a brief X-band alert. It then confirms connections to the front and rear receivers, and will display “Rear OK”, and “Front OK.” (factory default)

NOTE:
If there is a problem with the rear receiver or wiring after the initial start-up sequence, Passport will briefly display “Rear N/A”, but will continue to operate with the front receiver.

If there is a problem with the front receiver or wiring after the initial start-up sequence, Passport will display “Front N/A”, and will then continue to display “Check”, “Receiver”, “Wiring”. Passport will not operate in this condition.

PwrOnFST (fast power-on)
This setting shortens Passport’s start up sequence by eliminating the words "Passport", "SR-1", "LASER", "Ka-band", "K-band", "X-band", from the start-up sequence above.

Signal Strength Meter

MeterSTD (standard meter)
The meter displays the band, and bar graph showing signal strength. (factory default)

MeterEXP (ExpertMeter)
The meter simultaneously tracks up to 2 Ka-band, 2 K-band, and 4 X-band signals. Note: See more details on pages 6-7.

AutoMute

aMute ON (AutoMute on)
In this setting, Passport’s audio alerts will initially be at the volume you set, but after a few seconds, Passport will automatically reduce the volume level, to keep you informed, but not annoyed. (factory default)

aMute OFF (AutoMute off)
With AutoMute off, Passport’s audio alerts will remain at the volume you set for the duration of the radar encounter.

Audio Tones

Tone STD (Standard tones)
This setting uses more pleasing tones. (factory default)

Tone LOUD (Loud tones)
This setting uses tones that are more piercing, and easier to hear in a louder vehicle.
Details of EZ Programming Options

**City Mode Sensitivity**

*City STD* (Standard)
In this setting, when you put Passport in the City mode, X-band sensitivity is significantly reduced, to reduce annoyance from X-band intrusion alarms and motion sensors. (factory default)

*City LoX* (Low X-band sensitivity)
In this setting, when you put Passport in the City mode, X-band sensitivity is reduced more than the standard setting. This will reduce X-band alarms from other sources even further, but also significantly reduces range to X-band traffic radar.

*City NoX* (No X-band sensitivity)
In this setting, when you put Passport in the City mode, Passport will not respond to any X-band signals. WARNING: Only choose this setting if you are absolutely certain that there are no X-band traffic radar units where you drive.

**Brightness**

*Brt AUTO* (Auto)
Display brightness automatically adjusted to suit the ambient lighting in your car.

*Brt MIN* (Minimum)
Sets display to minimum brightness.

*Brt MED* (Medium)
Sets display to medium brightness.

*Brt MAX* (Maximum)
Sets display to maximum brightness.

*Brt DARK* (Dark)
In this setting, Passport will only display a very dim AD, HD, or CD for the power-on indication, and will not show any visual alerts when signals are detected.

**Safety Warning System**

*sws OFF* (safety warning system detection off) (factory default)

*sws ON* (safety warning system detection on)

**Safety Alert**

*sa OFF* (safety alert detection off) (factory default)

*sa ON* (safety alert detection on)
Specifications

Features and Specifications

Operating Bands

- X-band 10.525 GHz ± 25 MHz
- K-band 24.150 GHz ± 100 MHz
- Ka-band 34.700 GHz ± 1300 MHz
- Laser 900nm, 33 MHz bandwidth

Radar Receiver / Detector Type

- Superheterodyne, GaAs FET VCO
- Scanning Frequency Discriminator
- Digital Signal Processing (DSP)
- 4-bit high-resolution A-to-D converter

Laser Detection

- Quantum Limited Video Receiver
- 8 Laser Sensor Diodes (4F, 4R)

Display Type

- HP AlGaAs 280 LED Matrix/Text
- Bar Graph or ExpertMeter™
- Automatic brightness control

Power Requirement

- 12VDC, Negative Ground

Programmable Features

- Display (Horizontal or Vertical)
- Power-On Indication
- Power-On Sequence
- Signal Strength Meter
- AutoMute
- Audio Tones
- City Mode Sensitivity
- Display Brightness
- Safety Warning System Alerts
- Safety Pilot Alerts

Sensitivity Control

- AutoSensitivity™, Highway, and City

Dimensions

- Display/Controller 4.2 x 1.4 x .55 inches
- Receiver unit 5.4 x 3.7 x 1.05 inches
- Rear Laser unit 6.0 x 1.0 x .65 inches

Patented Technology

Passport is covered by one or more of the following Escort Inc. US patents. Additional patents may be listed inside the product.

5,668,554 5,559,508 5,365,055 5,347,120
5,305,007 5,206,500 5,164,729 5,134,406
5,111,207 5,079,553 5,049,885 5,049,884
4,954,828 4,952,937 4,896,855 4,887,753
4,862,175 4,750,215 4,686,499 4,631,542
4,613,989 4,604,529 4,583,057 4,581,769
4,313,216 D314,178 D313,365 D310,167
D308,837 D296,771 D288,418 D253,752
Although Passport has a comprehensive warning system and this handbook is as complete as we can make it, only experience will teach you what to expect from your Passport and how to interpret what it “tells” you. The radar alerts you receive are affected by the specific type of radar being used, the type of transmission (continuous or instant-on) and the location of the radar source. The following examples will give you an introduction to understanding Passport’s warning system for radar, laser and safety alerts.

<table>
<thead>
<tr>
<th>Alert</th>
<th>Explanation</th>
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<tbody>
<tr>
<td>Passport begins to sound slowly, then the rate of alerts increases until the alert becomes a solid tone. The Signal Meter ramps accordingly.</td>
<td>You are approaching a continuous radar source aimed in your direction.</td>
</tr>
<tr>
<td>Passport emits short alerts for a few seconds and then falls silent only to briefly alert and fall silent again.</td>
<td>An instant-on radar source is being used ahead of you and out of your view.</td>
</tr>
<tr>
<td>Passport suddenly sounds a continuous tone for the appropriate band received. All segments in the Signal Strength Meter are lit.</td>
<td>An instant-on radar source or laser source is being used nearby. This kind of alert requires immediate attention!</td>
</tr>
<tr>
<td>A brief laser alert.</td>
<td>Laser is being used in the area. Because laser is inherently difficult to detect, any laser alert may indicate a source very close by.</td>
</tr>
<tr>
<td>Passport receives weak signals. These signals may be a little stronger as you pass large, roadside objects. The signals increase in frequency.</td>
<td>A moving patrol car with continuous radar is overtaking you from behind. Because these signals are reflected (reflections are increased by large objects), they may or may not eventually melt into a solid point even when the patrol car is directly behind you.</td>
</tr>
<tr>
<td>Passport alerts slowly for awhile and then abruptly jumps to a strong alert.</td>
<td>You are approaching a radar unit concealed by a hill or an obstructed curve.</td>
</tr>
</tbody>
</table>
Interpreting Alerts

Alert

Passport alerts intermittently. Rate and strength of alerts may be consistent or vary wildly.

Explanation

A patrol car is travelling in front of you with a radar source aimed forward. Because signals are sometimes reflected off of large objects and sometimes not, the alerts may seem inconsistent.

Passport alerts intermittently. Rate and strength of signal increases with each alert.

A patrol car is approaching from the other direction, “sampling” traffic with instant-on radar. Such alerts should be taken seriously.

Passport gives an X-band alert intermittently.

You are driving through an area populated with radar motion sensors (door openers, burglar alarms, etc.) Since these transmitters are usually contained inside buildings or aimed toward OR away from you, they are typically not as strong or lasting as a real radar encounter.

CAUTION: Since the characteristics of these alerts may be similar to some of the preceding examples, overconfidence in an unfamiliar area can be dangerous. Likewise, if an alert in a commonly travelled area is suddenly stronger or on a different band than usual, speed radar may be set up nearby.
How Radar Works

Traffic radar, which consists of microwaves, travels in straight lines and is easily reflected by objects such as cars, trucks, even guardrails and overpasses. Radar works by directing its microwave beam down the road. As your vehicle travels into range, the microwave beam bounces off your car, and the radar antenna looks for the reflections. Using the Doppler Principle, the radar equipment then calculates your speed by comparing the frequency of the reflection of your car to the original frequency of the beam sent out.

Traffic radar has limitations, the most significant of these being that it typically can monitor only one target at a time. If there is more than one vehicle within range, it is up to the radar operator to decide which target is producing the strongest reflection. Since the strength of the reflection is affected by both the size of the vehicle and its proximity to the antenna, it is difficult for the radar operator to determine if the signal is from a sports car nearby or a semi-truck several hundred feet away.

Radar range also depends on the power of the radar equipment itself. The strength of the radar unit’s beam diminishes with distance. The farther the radar has to travel, the less energy it has for speed detection. Because intrusion alarms and motion sensors often operate on the same frequency as X-Band radar, your Passport will occasionally receive non-police radar signals. Since these X-Band transmitters are usually contained inside of buildings or aimed toward the ground, they will generally produce much weaker readings than will a true radar encounter. As you become familiar with the sources of these pseudo alarms in your daily driving, they will serve as confirmation that your Passport’s radar detection abilities are fully operational.
How Laser Works

How Laser (Lidar) Works

Laser speed detection is actually LIDAR (Light Detection And Ranging). LIDAR guns project a beam of invisible infrared light. The signal is a series of very short infrared light energy pulses which move in a straight line, reflecting off your car and returning to the gun. LIDAR uses these light pulses to measure the distance to a vehicle. Speed is then calculated by measuring how quickly these pulses are reflected given the known speed of light.

LIDAR (or laser) is a newer technology and is not as widespread as conventional radar, therefore, you may not encounter laser on a daily basis. And unlike radar detection, laser detection is not prone to “false” alarms. Because LIDAR transmits a much narrower beam than does radar, it is much more accurate in its ability to distinguish between targets and is also more difficult to detect. AS A RESULT, EVEN THE BRIEFEST LASER ALERT SHOULD BE TAKEN SERIOUSLY.

There are limitations to LIDAR equipment. LIDAR is much more sensitive to weather conditions than RADAR, and a LIDAR gun’s range will be decreased by anything affecting visibility such as rain, fog, or smoke. A LIDAR gun cannot operate through glass and it must be stationary in order to get an accurate reading. Because LIDAR must have a clear line of sight and is subject to cosine error (an inaccuracy which increases as the angle between the gun and the vehicle increases) police typically use LIDAR equipment parallel to the road or from an overpass. LIDAR can be used day or night.
How Safety Radar Works

There are two separate Safety Radar systems in limited use today: Safety Alert, and Safety Warning System (SWS). Both systems use modified K-band radar signals.

From the factory, your Passport is programmed with safety radar decoding OFF. If Safety Radar is used in your area, your Passport will display these signals as K-band radar signals instead of safety radar unless you use the EZ Programming to turn Passport’s safety radar decoding ON.

The Safety Alert safety radar system has three possible alerts:

- Safety Vehicle
- Road Hazard
- Train Nearby

The SWS safety radar system has 64 possible messages (60 currently allocated). The SWS messages your Passport can display are listed on the facing page.

Note: some of the safety messages have been condensed, so each message can be displayed on one or two screens on Passport’s eight character display.

Since Safety radar technology is relatively new and the number of transmitters in operation is not yet widespread, you will not receive Safety signals on a daily basis and should not be surprised to encounter emergency vehicles, road hazards and railroad crossings that are unequipped with these transmitters and, therefore, fail to provide a signal. As Safety transmitters become more prevalent (the number of operating transmitters is growing every day), these Safety radar signals will become more common.

For more information and details about SWS safety radar, visit their web site at www.swslc.com.
## SWS Safety Radar Text Messages

<table>
<thead>
<tr>
<th>SWS Text Messages</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong></td>
<td>WorkZone</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Road Closed</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Bridge Closed</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>WorkCrew Highway</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>WorkCrew Utility</td>
</tr>
<tr>
<td><strong>6</strong></td>
<td>Detour</td>
</tr>
<tr>
<td><strong>7</strong></td>
<td>Truck Detour</td>
</tr>
<tr>
<td><strong>8</strong></td>
<td>MustExit</td>
</tr>
<tr>
<td><strong>9</strong></td>
<td>RtLane Closed</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>CntrLane Closed</td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>LeftLane Closed</td>
</tr>
<tr>
<td><strong>12</strong></td>
<td>Future use</td>
</tr>
<tr>
<td><strong>13</strong></td>
<td>Police</td>
</tr>
<tr>
<td><strong>14</strong></td>
<td>Train</td>
</tr>
<tr>
<td><strong>15</strong></td>
<td>Low Overpass</td>
</tr>
<tr>
<td><strong>16</strong></td>
<td>BridgeUp</td>
</tr>
<tr>
<td><strong>17</strong></td>
<td>Bridge Wt Limit</td>
</tr>
<tr>
<td><strong>18</strong></td>
<td>RockSlid Area</td>
</tr>
<tr>
<td><strong>19</strong></td>
<td>School Zone</td>
</tr>
<tr>
<td><strong>20</strong></td>
<td>Road Narrows</td>
</tr>
<tr>
<td><strong>21</strong></td>
<td>Sharp Curve</td>
</tr>
<tr>
<td><strong>22</strong></td>
<td>Croswalk</td>
</tr>
<tr>
<td><strong>23</strong></td>
<td>Deer Crossing</td>
</tr>
<tr>
<td><strong>24</strong></td>
<td>Blind or Deaf Kid</td>
</tr>
<tr>
<td><strong>25</strong></td>
<td>SteepUse LowGear</td>
</tr>
<tr>
<td><strong>26</strong></td>
<td>Accident</td>
</tr>
<tr>
<td><strong>27</strong></td>
<td>PoorRoad Surface</td>
</tr>
<tr>
<td><strong>28</strong></td>
<td>Loading SchooBus</td>
</tr>
<tr>
<td><strong>29</strong></td>
<td>DontPass</td>
</tr>
<tr>
<td><strong>30</strong></td>
<td>Dangrous Intrsect</td>
</tr>
<tr>
<td><strong>31</strong></td>
<td>Emergency Vehicle</td>
</tr>
<tr>
<td><strong>32</strong></td>
<td>Future use</td>
</tr>
</tbody>
</table>
**Problem**

Passport beeps briefly at the same location every day, but no radar source is in sight.

Passport does not seem sensitive to radar or laser.

Passport did not alert when a police car was in view.

Passport did not provide a Safety signal while within range of an emergency vehicle.

Passport’s audible alerts are less loud after the first few alerts.

Passport’s power-on sequence reoccurs while you are driving.

Your 14-year old son has changed all 10 of the EZ Programming options.

Passport will not turn on.

Passport’s Display feels warm.

**Solution**

- An X-band motion sensor or intrusion alarm is located within range of your route. With time, you will learn predictable patterns of these signals.

- Passport may be in City Mode.

- VASCAR, (Visual Average Speed Computer And Recorder) a stopwatch method of speed detection, may be in use.  
  - Officer may not have radar or laser unit turned on.

- Safety transmitters may not be commonly used in your area.

- Passport is in AutoMute Mode. See page 4 for details.

- A loose power connection can cause Passport to be briefly disconnected, and will retrigger the power-on sequence.

- You can return all of the programming options to the factory defaults by holding down the City and Mute buttons while you turn Passport on.

- Check that volume control is ON.
  - Check that vehicle ignition is ON.
  - Check all connections.

- It is normal for Passport to feel warm.
## Troubleshooting

### Explanation of Displays

<table>
<thead>
<tr>
<th>Check RearLasr Wiring</th>
<th>There is a problem with the rear receiver (it could be an unplugged connection, damaged wiring, or a problem within the rear laser unit itself). After Passport alerts you to this, it will briefly display “Rear N/A”, and will then resume operation with the front receiver only.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Receiver Wiring</td>
<td>There is a problem with the front receiver (it could be an unplugged connection, damaged wiring, or a problem within the front receiver itself). Passport will continue to display this message, and will not operate until the problem has been repaired.</td>
</tr>
<tr>
<td>AD</td>
<td>Sensitivity control is in Auto mode, display is in Dark Mode (page 12)</td>
</tr>
<tr>
<td>HD</td>
<td>Sensitivity control is in Highway mode, display is in Dark Mode (page 12)</td>
</tr>
<tr>
<td>CD</td>
<td>Sensitivity control is in City mode, display is in Dark Mode (page 12)</td>
</tr>
<tr>
<td>PilotHWY</td>
<td>One of the many programming messages (pages 8-12)</td>
</tr>
<tr>
<td>WorkZone</td>
<td>One of the many Safety Radar messages (pages 18-19)</td>
</tr>
<tr>
<td>Caution</td>
<td>Passport has detected a Safety Radar Signal, but the signal isn’t yet strong enough to decode the specific safety message (page 18-19)</td>
</tr>
<tr>
<td>X</td>
<td>or K</td>
</tr>
</tbody>
</table>
Service Procedure

If your Passport ever needs service, please follow these steps:

1. Check the troubleshooting section of this manual. It may have a solution to your problem.

2. Contact your installing dealer. They will evaluate your unit and arrange repairs if necessary.
ESCORT One Year Limited Warranty

ESCORT warrants your Passport against all defects in materials and workmanship for a period of one (1) year from the date of the original purchase, subject to the following terms and conditions:

• The sole responsibility of ESCORT under this Warranty is limited to either repair or, at the option of ESCORT, replacement of the Passport detector. There are no expressed or implied warranties, including those of fitness for a particular purpose or merchantability, which extend beyond the face hereof. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

• This warranty does not cover installation, removal or reinstallation charges.
• ESCORT is not liable for any incidental or consequential damages arising from the use, misuse, installation, or mounting of the Passport. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
• This Warranty gives you specific rights. You may have other legal rights which vary from state to state. This Warranty does not apply if the serial number on the housing of the Passport has been removed, or if your Passport has been subjected to physical abuse, improper installation, or modification.
Parts and Accessories

Replacement parts and accessories for your Passport are available from your dealer.