YOU MUST ALSO READ, FULLY UNDERSTAND AND AGREE TO THE TERMS OF THE DISCLAIMER AND LIMITED WARRANTY PRIOR TO USING THE VIGIL®2+Xtreme. IF YOU DO NOT FULLY UNDERSTAND AND AGREE TO ALL OF THE TERMS OF THE DISCLAIMER AND LIMITED WARRANTY, YOU MUST NOT USE THE VIGIL®2+Xtreme. YOU MAY RETURN IT, IN ITS ORIGINAL PACKAGING, FOR A FULL REFUND. YOUR USE OF THE VIGIL®2+Xtreme IN THE EQUIPMENT YOU USE FOR MAKING A PARACHUTE JUMP IS CONCLUSIVE PROOF THAT YOU AGREE TO ALL OF THE TERMS OF THE DISCLAIMER AND LIMITED WARRANTY.
Important Notice!

The **Vigil®2+Xtreme** is a mono-mode Automatic Activation Device specially developed for high performance landings which requires a higher vertical speed than 35m/sec.

The **Vigil®2+Xtreme** will not activate before exceeding the speed of 43,28m/sec (142ft/sec). It is important to know that in some situations like low cut-away or other, it can take longer to reach the required vertical measured speed of 43,28m/sec of this **Vigil®2+Xtreme**, than it takes to get to the descent speed of a **Vigil®2+Multimode** in Pro mode (35m/sec). This can make a difference.

The **Vigil®2+Xtreme** will not activate below 300ft above the ground zero level or 300ft above a negative altitude correction, when set.
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**WARNING**

SKYDIVING IS A DANGEROUS ACTIVITY, AND YOU RISK MINOR OR SERIOUS PERMANENT INJURY OR DEATH EACH TIME YOU SKYDIVE. THE CORRECT USE OF THE **VIGIL® AAD** MAY REDUCE THIS RISK, HOWEVER, THERE ARE SITUATIONS IN WHICH A **VIGIL® AAD** MAY NOT REDUCE, AND MAY ACTUALLY INCREASE, THE RISK. THE **VIGIL® IS A BACKUP DEVICE, WHICH MAY OR MAY NOT SAVE YOUR LIFE, AND IT IS IMPORTANT TO NEVER Rely ON THE **VIGIL® AS A LIFESAVING DEVICE. PRIOR TO USING THE **VIGIL®, IT IS IMPORTANT TO READ THE **VIGIL®2**Xtreme USER’S MANUAL VERY CAREFULLY. ALWAYS OBSERVE ALL WARNINGS, AND FOLLOW ALL MANUFACTURER’S INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PROCEDURES. ALWAYS FOLLOW CORRECT OPENING PROCEDURES AND, IF NECESSARY, EMERGENCY PROCEDURES. NEVER SKYDIVE UNLESS YOU ARE FULLY TRAINED AND COMPETENT IN THE USE OF ALL OF YOUR EQUIPMENT, INCLUDING THE **VIGIL®**.

The **Vigil®2**Xtreme is equipped with an integrated Piezo resistive barometric pressure sensor. Do not expose your **Vigil®2**Xtreme to pressures above 3000 hPa, (45.5 psi), or to temperatures above 158°F (70°C). The battery pack is designed to operate within a temperature range from -13°F to +158°F (-25°C to +70°C).

**DISCLAIMER AND LIMITED WARRANTY** see pages 37 - 39.

- You must switch ON your **Vigil®2**Xtreme ONLY at the take-off zone (reference altitude or ground zero).
- If you intend to change to a different drop zone, switch OFF your **Vigil®2**Xtreme before travelling, and switch it back ON at the new drop zone, before take-off.
- Before each jump it is essential to visually check your LCD screen to ensure its pre-selected parameters (altitude correction in feet or in meters) are correctly set.

**NEVER JUMP WITH A BLANK LCD SCREEN ON YOUR Vigil®2**Xtreme !!
1. Welcome to the Vigil® 2+Xtreme World!

We congratulate you on your purchase of today’s most sophisticated and modern, multimode Automatic Activation Device. It is a revolutionary safety device, with no imposed maintenance schedule. The Vigil® 2+Xtreme will automatically check all of its functional features each time it is switched on. The Vigil® 2+Xtreme will detect any anomalies by itself. Should an abnormality be found, the controller will display an error message (see page 13 § 3.5.3.), and the Vigil® 2+Xtreme unit will not switch on. In this case, the Vigil® 2+Xtreme needs to be analyzed by an authorized dealer, or sent back to the factory for analysis.

The Vigil® 2+Xtreme is designed for a life expectancy of maximum 20 years from the date of manufacture. The above life expectancy is based on the fact that the cutter, the Pulses Plus element and the electronic components have been designed for a functional lifetime of 20 years.

The Vigil® 2+Xtreme is very user friendly. The Vigil® 2+Xtreme, will also work in U.S. or metric standards units.

When traveling on any commercial flight with your Vigil® 2+Xtreme, this manual - as well as the Vigil® X-Ray Card should accompany you. It contains explanations that will be useful to the airport security staff. The most recent manual is available on the Vigil® website at www.vigil.aero on the download page.

The Vigil® 2+Xtreme is, in principle, a last resort safety device, which may or may not save your life. It has never been intended to be, and is not to be used as, a parachute’s primary opening system.

The procedures written in this manual must be followed to ensure that the Vigil® 2+Xtreme functions properly. Incorrect setup or use can lead to improper functioning of the Vigil® 2+Xtreme.

A skydiver should always adhere to all rules and regulations set by his/her country’s skydiving federation. The use of a Vigil® 2+Xtreme AAD does not exempt the parachutist from performing proper emergency procedures.

ALTHOUGH VIGIL®'S HAVE SAVED MANY LIVES, NEVER RELY ON THE VIGIL® TO SAVE YOUR LIFE, IT MAY NOT DO SO IN SOME SITUATIONS.
2. Introduction

Your Vigil®2+Xtreme was designed and developed by a professional team of engineers and skydivers. Its function is to cut the reserve closing loop in the event that you reach a freefall speed at an unsafe altitude. The flat aluminum alloy box is exceptionally strong; its ergonomic design fits easily into most current rigs. A Vigil®2+Xtreme installation kit (pouch, controller window and cutter retainer) can be supplied to rig manufacturers, on demand. The Vigil®2+Xtreme is special designed for landings that require a vertical speed higher than 35m/sec and lower than 43,28m/sec (142ft/sec).

The Vigil®2+Xtreme also has a data recorder function (black box). The unit memorizes the last 16 minutes of freefall time (with a maximum of 16 graphs, whichever is reached first), total time in freefall and total number of jumps. This data can be viewed directly from the control unit’s LCD display, or it can be downloaded to a PC through an infrared communication port. The infrared reader and the associated software are available as an option (see page 36 § 9).

The “2 wire” technology and the Kevlar reinforced cabling were especially developed for the Vigil®2+Xtreme and deliver a unique combination of strength and flexibility.

The gold plated contacts and the locking system with a special locking clip on the connectors ensure optimal connection reliability in all circumstances.

The control unit:  
- is equipped with a 26 x 96 dots LCD display which allows interactive and clear communication with the parachutist.
- is protected by a special anti-scratch coating and a stainless steel protection cover.

The electromagnetic shield protects the Vigil®2+Xtreme from electromagnetic interferences, such as those found in airports and airplanes (see page 25 § 5.1).
3. Function

3.1. General Working Principle:

The Vigil®2+Xtreme must only be turned on at ground level; it will calibrate itself every 32 sec. progressively to the current ground elevation pressure. This is the “GROUND ZERO” reference. Once your Vigil®2+Xtreme is on, at each take-off it will become armed once 1000 ft above “ground zero” reference is reached, if no or a positive altitude correction is applied. When a negative altitude correction is set, the Vigil®2+Xtreme will become armed 1000 ft above the preset negative altitude correction, so if the negative altitude correction is over 1000 ft, the Vigil®2+Xtreme will become armed maximum 32 sec. after you have reached 90 ft above the “GROUND ZERO” reference (take off location).

WHEN A NEGATIVE ALTITUDE CORRECTION IS APPLIED, IT IS MANDATORY THAT THE AIRCRAFT REMAINS AT LEAST 90 ft ABOVE THE GROUND ZERO REFERENCE (take-off zone) FOR AT LEAST 32 SECONDS. THIS ALLOWS VIGIL®2+Xtreme TO CHANGE FROM STAND-BY TO FAST MEASURING STATUS.

In freefall, the Vigil®2+Xtreme starts to continuously calculate the leftover time to reach the activation altitude. When this altitude (or lower) is reached by the jumper at equal or superior speed compared to the factory-set parameters, the cutter of the Vigil®2+Xtreme will instantly fire and cut the closing loop of your emergency parachute (<0,002 sec).

An “altitude correction” allows you to implement a positive or negative altitude difference between the departure and landing levels (from +6000 ft to -6000 ft or from +2000 m to -2000 m) in steps of 150 ft or 50 m.

The Vigil®2+Xtreme takes this altitude correction into account to calculate the new activation altitude. This principle also allows you to modify the activation altitude permanently if the airport where you take off and the landing zone are at DIFFERENT altitudes or if there is a hillock near the drop zone.

Vigil®Xtreme has its own factory-set activation altitude and speed, 43,28m/sec. (96,81 mph) at 335m (1100ft). During your aircraft ascent, the Vigil®Xtreme’s red LED will briefly flash three times when it passes through its pre-set activation altitude.

The Vigil®2+Xtreme will automatically remain ON for 14 hours; it may of course be switched off manually before that time. The mode «Xtreme» will remain visible on the LCD display until the Vigil®2+Xtreme is switched off or turns off automatically after 14 hours.

To avoid an “airborne condition” (See page 23 for more detail) of your Vigil®2+Xtreme due to a difference in pressure equivalent to more than plus or minus 90 ft (27,5 m) compared to the “ground zero” reference (pressure), you must ALWAYS manually shut down your Vigil®2+Xtreme at the end of the day, and BEFORE leaving the drop-zone.
3.2. Installation

The Vigil®2+Xtreme has been designed to be compatible with most sport harness/container systems on the market today. If a suitable installation kit for an electronic AAD is not yet installed by the rig manufacturer, a Vigil®2+Xtreme Installation Kit (pouch, controller window, and cutter retainer) can be supplied and installed in your container by the harness/container manufacturer, or by an authorized rigger. It can be easily sewn into any harness/container system designed for an electronic AAD.

All reserve closing loops currently on the market that are similar to Vigil® Dyneema or the Spectra CSR style #9512-300 or the Cypres™ Loop (Spectra Cord) are acceptable for use by the installation of the Vigil®. The Vigil®2+Xtreme's cutter must be positioned and rigged as specified by the harness/container manufacturer’s instructions for electronic AAD’s.

**WARNING: IF THE CLOSING LOOP IS NOT ROUTED THROUGH THE CUTTER, THE VIGIL®2+Xtreme WILL NOT CUT THE LOOP.**

3.3. The Vigil®2+Xtreme mode.

The Vigil®2+Xtreme activates when it measures* 1100 ft. (335 meters)** between and below, until 300 ft (91 meters), if the freefall speed is equal or superior to 43,28m/sec (96,81mph) *.

* The cutter will activate instantaneously once the pre-determined activation mode parameters (altitude and falling speed) are reached. Please take this information into consideration when determining your main canopy deployment altitudes! Always allow enough time to have a Fully open main canopy approximately 1000 ft (300 meter) above activation altitude!

** If you are in Freefall face to earth, your Vigil®2+Xtreme is in the depression zone (burble) and could measure up to ±260 ft (±80 meters) higher than your actual altitude (see pages 10 & 11).
3.4. Information regarding the Activation Altitude

Please be aware that the Vigil®2+Xtreme functions are based on a measured air pressure and on measured time. Those 2 parameters permit the calculation of the exact altitude, in function of the registered air pressure, as well as the vertical speed related to a pressure variation in a certain period of time.

For information: The Vigil®2+Xtreme is able to register pressure differences of 0,1 hPa which is equivalent to an altitude difference of only ± 2,6 ft (or 0,8 meter)!

Important note: The registered pressure by the sensor will vary, according to the body position of the skydiver (face to earth or back to earth) up to 10 hPa (=mbar) which is equivalent to +-260 ft (+-80 m)!

Example: Let’s consider two skydivers in free fall, at exactly the same altitude but one is falling back to earth and the second one is falling face to earth.

The influence of their falling position on their respective AAD reading is as follows:

<table>
<thead>
<tr>
<th>(I) Back to earth</th>
<th>(II) Face to earth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression zone (burble)</td>
<td>AAD or pressure sensor located in depression zone (burble)</td>
</tr>
<tr>
<td>No influence</td>
<td></td>
</tr>
<tr>
<td>Pressure sensor location</td>
<td></td>
</tr>
<tr>
<td>Pressure = X hPa</td>
<td>Pressure = X hPa – 10 hPa</td>
</tr>
<tr>
<td>Vigil®2+ will register a pressure of X hPa</td>
<td>Vigil®2+ in depression zone will register an up to 10 hPa lower pressure, notwithstanding they are at the same level</td>
</tr>
<tr>
<td>The stated or real altitude ➔ Y ft (or m)</td>
<td>The stated altitude ➔ Y +(±260 ft) or +(±80 m)</td>
</tr>
</tbody>
</table>
**Conclusion:**

The **Vigil® 2+ Xtreme** will activate at a minimum altitude of 840 ft or 256 m above the ground, at a falling speed of 43.28 m/sec (96.81 mph) or greater. It is well accepted that this minimum activation level must be guaranteed whatever the position of the skydiver. If the skydiver is falling in a back to earth position, the reading will reflect the correct pressure, since the sensor is not influenced by a depression (burble), but if the skydiver is falling face to earth, then the sensor located in the depression zone (burble) will read a pressure up to 10 mbar lower, or an altitude ±260 ft or ±79 m above the real altitude, and will, in this case, activate later, or ±260 ft or ±79 m lower, i.e. at an actual altitude of 580 ft or 177 m above the ground level, which would be **too low**.

Therefore, a compensation of +260 ft or +79 m above the nominal activation altitude has been integrated into the software. The **Vigil® 2+ Xtreme** has a programmed activation altitude of 1100 ft or 335 m been set to ensure that, notwithstanding the skydiver’s body position, activation will always be at a minimum altitude of 840 ft or 256 m (actual altitude) above the ground level.

**Remarks:**

- In a test chamber, the activation of **Vigil® 2+ Xtreme** will be at 1100 ft (840 ft + 260 ft) or 335 m (256 m + 79 m) as there is no depression zone (burble).

- The **Vigil® 2+ Xtreme** has an opening accuracy of ±65 ft or ±20 m in all modes thanks to our patented “Permanent Left Over Time Calculation” method.
3.5. Start Up and Shut Down Procedures

It is imperative that the Vigil®2+Xtreme be switched ON at the ground level of your take-off zone. (This becomes the “GROUND ZERO” reference altitude).

Your Vigil®2+Xtreme will recalibrate itself for variation in the atmospheric pressure.

⇒ Attention: If there is a rapid change in atmospheric pressure (more than 10 hPa), it is recommended that you shut down and restart your Vigil®2+Xtreme to ensure optimal precision.

Never switch on your Vigil®2+Xtreme in an aircraft!

3.5.1 Start Up – Display

In its standard configuration, the Vigil®2+Xtreme is used with the orange push button situated at the right side of the display. The red LED is positioned in the upper corner and indicates the timing of the start up procedure.

The green LED is situated in the bottom corner of the controller and confirms the end of the start up procedure.

⇒ The Vigil®2+Xtreme’s display is reversible (see page 19 § 3.5.7.)
3.5.2. Starting Up the \textit{Vigil}\textsuperscript{®}2+\textit{Xtreme}.

The \textit{Vigil}\textsuperscript{®}2+\textit{Xtreme} becomes operational after pressing the orange push button four times. These short presses must be done immediately after each flash of the red LED. After the first push (hold for 1 or 2 seconds) the \textit{Hello} message is shown. If no message appears, please repeat the previous operation. 

\textit{Hello} is immediately followed by \textit{Vigil 2+} on the LCD. Press the push button immediately after the red LED first flashes. Press the push button immediately after the second flash of the red LED. Press the push button immediately after the third flash of the red LED. The \textit{Vigil}\textsuperscript{®}2+ will then automatically start its self-test sequence.

In short:

<table>
<thead>
<tr>
<th>Action</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Push</td>
<td>\textit{Hello} followed by \textit{Vigil 2+} appears + flash \Rightarrow (2) \textit{VIGIL 2+}</td>
</tr>
<tr>
<td>2. Push</td>
<td>Flash \Rightarrow (3)                                                   \textit{VIGIL 2+}</td>
</tr>
<tr>
<td>3. Push</td>
<td>Flash \Rightarrow (4)                                                   \textit{VIGIL 2+}</td>
</tr>
<tr>
<td>4. Push</td>
<td>Start of self tests                                                    \textit{BAT OK}</td>
</tr>
</tbody>
</table>

The startup and shut down procedures listed in this manual have been established to reduce the risk of an unwanted start up or shut down sequence and to ensure that the \textit{Vigil}\textsuperscript{®}2+\textit{Xtreme} cannot be turned on or off by accidentally pressing the push button.

3.5.3. Self Tests

The \textit{Vigil}\textsuperscript{®}2+\textit{Xtreme} automatically goes through a complete test sequence each time it is switched on. It verifies that the battery pack, the cutter and the electronic circuits (main functions) are in proper working order.
The following messages are shown:
• «Bat OK» The battery pack is functioning properly.
• «Cut OK» The cutter resistance is tested O.K.
• «Ctrl OK» The electronic circuits are functioning properly.

If an error is detected the following messages may be shown:
• «Bat Low» Low Battery, the Vigil®2+Xtreme is still operational, but the dual battery pack must be replaced as soon as possible. * (see page 29 § 7.1)
• «Bat Rpl» The dual battery pack must be replaced, the Vigil®2+Xtreme will not switch on. * (see page 29 § 7.1)
• «Cut Err» Cutter resistance is out of tolerance, the Vigil®2+Xtreme will not switch on.
• «Ctrl Err» A discrepancy in one of the electronic circuits is observed, unit will not switch on.

If one of these messages is displayed (except for «Bat Low»), the startup procedure will end, and the Vigil®2+Xtreme will switch itself off.

If the «Bat Low» message appears, the battery pack must be replaced as soon as possible (see page 29 § 7.1)
If the «Bat Rpl» message appears, the battery pack must be replaced prior to the next jump (see page 29 § 7.1)
If the «Cut Err» message appears, the cutter unit must be replaced prior to the next jump (see page 30 § 7.2).

A new cutter will be supplied free of charge if a completed “Life Saving Report” is posted and approved (see our website www.vigil.aero on the download page).

We recommend that Vigil®2+Xtreme parts be replaced by a certified rigger or by a Vigil® approved expert. The regulations in some countries require a certified rigger to do such replacements. The user may not have authorization to replace the cutter or controller unit. In such situations, you must adhere to your country’s rules.

⚠️ If the «Ctrl Err» message appears due to a failure in the electronic circuits, you must send the Vigil®2+Xtreme back to your dealer or to the factory for a complete checkup, before the next jump. **DO NOT** try to restart the Vigil®2+Xtreme again.
This first test procedure is followed by 3 different menus: «\textit{SETUP}», «\textit{INFO}», and «\textit{CONFIG}» (see page 8 § 3).

**Recommendation:** if the \textit{Vigil²+Xtreme} is not yet configured to your standard measurement units, go first to the “\textit{CONFIG}” menu (see page 19 § 3.5.7.) to set the required units (U.S. or metric) before other settings.

3.5.4. «\textit{SETUP}» Menu (Parameters) Altitude correction.

The «\textit{SETUP}» menu enables you to implement a positive or negative altitude correction (in feet or meters) between the departure and arrival ground levels, (see example page 17).

It is possible to enter the «\textit{SETUP}» menu at the end of the self testing sequence. To do this, press the push button as soon as the display shows «\textit{SETUP}» and the red LED flashes. It is possible to implement an altitude correction from +6000 ft to -6000 ft or from +2000 m to -2000 m. To enter or modify a positive or negative altitude correction, press the push button while «\textit{Alt Cor}» appears. The arrow facing up corresponds to an increase of the altitude value and the arrow facing down to a decrease of the altitude value. The correction is made in increments of 150 ft or 50 m when the \textit{Vigil²+Xtreme} is set in meters. Press the push button until the desired positive or negative altitude correction is achieved. For example: +100 m for higher landing zone compared to the take-off zone and -100 m for a lower landing zone.

**Important note:** If you land at a different altitude than your “\textit{GROUND ZERO}”, please be aware that the original “\textit{GROUND ZERO}” reference, will remain in the \textit{Vigil²+Xtreme}’s memory and will be applied to all following jumps, as long as your \textit{Vigil²+Xtreme} has not been switched off. Your \textit{Vigil²+Xtreme} MUST be reset after you have landed, and prior to your next jump at the other drop zone. By switching your \textit{Vigil²+Xtreme} off and back on again, the \textit{Vigil²+Xtreme} will reset itself.

Please remember that any implemented “\textit{Alt Cor}” will remain in the \textit{Vigil²+Xtreme} memory and will only be cancelled if manually reconfigured in the “\textit{SETUP}” menu.
3.5.5. Using a positive altitude correction to raise the activation altitude.

As stated on page 9 § 3.3, a Vigil®2+Xtreme activates at a measured altitude of 1100ft (335 meter)(actual altitude of 840-1100 feet, depending on body position).

To increase safety margins, an altitude correction can be performed (see page 15 § 3.5.4.)

Some important points to remember:
- Once an altitude correction is applied, this will stay in the Vigil®2+Xtreme’s memory, until you manually remove it in the «SETUP» menu.
- When you raise the activation altitude, always allow enough time to have a fully open main canopy approximately 1000 ft above your new activation altitude.

During a slow opening, it may take longer until you have a fully open main canopy, which may bring you closer to the activation altitude you choose.

- A Vigil®2+Xtreme will activate at the measured altitude it is set in. Please read page 9, 10 and 11 carefully to understand this!!

- When a positive altitude correction is made, the Vigil®2+Xtreme will disarm at 300 ft (92 meter) above the “groundzero reference”, the same altitude as when no altitude correction is applied.

This means on a positive altitude correction, you will increase the activation window. The “disarming” altitude of 300 ft above the “ground zero” does NOT increase!

- When a negative altitude correction is applied, the Vigil®2+Xtreme will disarm 300 ft (92 meter) above the preset negative altitude correction, also known as the "new landing zone".

It is each's individual's responsibility to make sure he or she, has a fully open main canopy well above the activation altitude. We recommend allowing approximately 1000 ft between a fully open main canopy and the activation altitude. This should allow enough time to deal with emergency procedures (if necessary) and prevent a possible two-canopy out situation.

The possibility to raise the activation altitude, and keep it until manually changed in the “setup” menu, has always been in all Vigil® AAD's produced since 2003.
Vigil® 2+ Xtreme without altitude correction

Vigil® 2+ Xtreme with **positive** altitude correction of 100 meters
3.5.6. **INFO** Menu (Information).

- This menu allows you to display your Vigil®2+Xtreme’s reference parameters (version, date of manufacture and serial number), data of previous jumps, as well as temperature and atmospheric pressure.
- To enter the **INFO** menu, press the push button as soon as the display shows **INFO** and the red light flashes.

These parameters are in clear language in function of the chosen units and as follows (*see page 19 § 3.5.7.):

<table>
<thead>
<tr>
<th>Display</th>
<th>Note: the number 8 is used for illustration (all segments used in a number)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ver</strong>:8.88</td>
<td>Software Version</td>
</tr>
<tr>
<td><strong>Lcd</strong>:8.88</td>
<td>Controller version</td>
</tr>
<tr>
<td>#88888</td>
<td>Electronic Unit Serial Number</td>
</tr>
<tr>
<td>88/88</td>
<td>Production week and year</td>
</tr>
<tr>
<td></td>
<td>(for example 26/06 = week 26 in 2006)</td>
</tr>
<tr>
<td><strong>TJ</strong>:8888</td>
<td>Total Jumps (Total number of jumps with this unit)</td>
</tr>
<tr>
<td><strong>TFF</strong>:88h</td>
<td>Total Free Fall - Total free fall time with this unit in hours, followed by minutes and seconds</td>
</tr>
<tr>
<td>88m88s</td>
<td></td>
</tr>
<tr>
<td><strong>LFF</strong>:188s</td>
<td>Last Free Fall - Duration displayed is seconds and maximum speed of the last freefall displayed in km/h or mph</td>
</tr>
<tr>
<td>888 km/h</td>
<td></td>
</tr>
<tr>
<td>Saves 8</td>
<td>Number of activations on your Vigil®2+Xtreme</td>
</tr>
<tr>
<td><strong>T</strong>:+88°C or +88°F</td>
<td>Temperature of Vigil®2+Xtreme main unit in °F or °C depending on the configuration</td>
</tr>
<tr>
<td>88inHg or 8888hPa</td>
<td>Atmospheric Pressure in inches of mercury (inHg) or hectopascal (hPa)</td>
</tr>
</tbody>
</table>
(*) Certain special models may be equipped with custom-built or experimental software.
In such cases, a specific identification logo on the cover is used, and a specific manual will be issued.
The information supplied for those units could be different from that supplied for the Vigil®2+Xtreme units.

As reference: Standard logo → Vigil logo → Xtreme logo → Vigil logo

3.5.7. «CONFIG» Menu (Configuration)

This configuration menu allows you to choose the type of measurement units you wish to display, reverse
the display characters and adjust the contrast of the display.
To enter into the configuration menu, press the push button as soon as the display indicates «CONFIG»
and the red LED flashes.

Initially, the display indicates «Feet» or «Meters», depending on the existing configuration.
To change the measurement unit, press the push button.
You can choose «U.S.» or «Metric» by pressing the push button (°Fahrenheit, mph, inches of mercury or
°Celsius, km/h, hectoPascal).
Press «View» to choose to view the display in its normal configuration or flipped 180° «VIEW»
The contrast can be adjusted by pressing the push button when «Contrast» is displayed, in accordance with
the up and down arrows (it will not fade out).

Once the «CONFIG» menu is completed, the Vigil®2+Xtreme is operational and will keep in memory the chosen configuration.
For example:

<table>
<thead>
<tr>
<th>Action</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wait</td>
<td>«CONFIG» displayed</td>
</tr>
<tr>
<td>2. Push</td>
<td>Choose between «Feet» or «Meters»</td>
</tr>
<tr>
<td>3. Push</td>
<td>Choose between «U.S. » or «Metric»</td>
</tr>
<tr>
<td></td>
<td>(°Fahrenheit, mph, inches of mercury or °Celsius, km/h, hectoPascal)</td>
</tr>
<tr>
<td>4. Push</td>
<td>Choose between normal or reversed display «View» or «Wθ!\»</td>
</tr>
<tr>
<td>5. Push</td>
<td>Contrast ↑ or contrast ↓</td>
</tr>
</tbody>
</table>

All of the parameter sequences are described in the Parameter Sequence Flow Chart. (see page 40 § 12.)

3.5.8. Choice confirmation

The green LED flashes five times and the message «:-) Enjoy» is displayed for a few seconds to confirm the Vigil®²+Xtreme is ready for use.

⇒ Remark: While the message «:-) Enjoy» is displayed, by pushing the button you can go back to the three menus’ (SETUP, INFO or CONFIG) for a possible verification or modification.

If no altitude correction is entered, “Xtreme” remains displayed.
If an altitude correction was entered, "Xtreme" mode will be displayed as “X” (for Xtreme) followed by a «+» or «-» sign preceding the value of the implemented altitude correction (see example page 17).

The value will be shown in feet (ft) or meters (m).
After switch on, the Vigil®²+Xtreme stays on for a period of 14 hours, and will then switch off automatically (see page 23 for more detail).
At the next switch-on, Vigil®²+Xtreme will retain in its memory, all of the previous settings used with the exception of the ground zero reference. The ground zero reference is reset at each switch on.
The Vigil®2+Xtreme is now ready for use and is in a stand-by status. While in stand-by status, the unit re-calibrates itself every 32 sec. After take-off the Vigil®2+Xtreme will become armed once 1000 ft above “ground zero” reference is reached, if no or a positive altitude correction is implemented. When a negative altitude correction is implemented, the Vigil®2+Xtreme will become armed 1000 ft above the preset negative altitude correction (see page 8 § 3.1.)

After take-off (max 32 sec. above 90 ft) the Vigil®2+Xtreme will go in to fast measuring mode (Airborne status). You can notice this when the LCD pixels invert. (see image on page 28)

If the LCD pixels are inverted on the ground and prior to take off, your Vigil®2+Xtreme is Airborn and therefore not reading the correct Ground Zero reference. In this case, you must switch off and restart your Vigil®2+Xtreme, to get the correct Ground Zero reference.

BEFORE EACH JUMP, check the unit carefully for any implemented mode or altitude correction (in ft. or m).

For 2 minutes after each landing, your jump information will be displayed (Last FF time & speed). LCD pixels remain inverted. This same jump information is accessible at any time (displayed for 30 sec.) by pushing the LCD button once.

3.5.9. Shut down. (The shut down procedure is similar to the start up procedure).

A quick press of the push button after each LED flash (4 times) will shut down the Vigil®2+Xtreme.

On the first press the «Sys OFF» message is displayed. Press the button a second and third time; do this as soon as the red LED flashes.

Press the button as soon as the red LED flashes a fourth and last time. The display will show «Goodbye» followed by «Vigil2+» for a few seconds. Finally, the green LED flashes very briefly and then the Vigil®2+Xtreme shuts down.

For Example:

<table>
<thead>
<tr>
<th>Action</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Push</td>
<td>Short flash ⇒ (2) «Sys OFF»</td>
</tr>
<tr>
<td>2. Push</td>
<td>Short flash ⇒ (3) «Sys OFF»</td>
</tr>
<tr>
<td>3. Push</td>
<td>Short flash ⇒ (4) «Sys OFF»</td>
</tr>
<tr>
<td>4. Push</td>
<td>«Goodbye» followed by «Vigil 2+» are displayed before the AAD shuts down.</td>
</tr>
</tbody>
</table>
4. Flight restriction for the pilot - Airborne

**Vigil® 2+Xtreme.** will work correctly even when used in a pressurized cabin as long as the pressure differs at least ±3 hPa compared to the atmospheric air pressure at take-off.

- Inside this zone, the **Vigil® 2+Xtreme** is in stand-by status, measuring every 32 sec. With gradual recalibration to the atmospheric air pressure.

Outside this zone, Vigil 2+Xtreme will go in a fast measuring status, measuring 8 times per sec, with a fixed ground zero reference in a maximum delay of 32 sec.
Vigil®2+Xtreme is the most accurate AAD on the market. It becomes armed once 1000 ft above "Ground zero" reference is reached if no or a positive altitude correction is implemented. When a negative altitude correction is implemented, the Vigil®2+Xtreme will become armed 1000 ft above the preset negative altitude correction, also known as the new landing zone. The Vigil®2+Xtreme stays armed until 300 ft above "Ground zero" reference when no or a positive altitude correction is implemented. The Vigil®2+Xtreme will not activate below this altitude. When negative altitude correction is implemented, Vigil®2+Xtreme will remain armed until 300 ft above the preset negative altitude correction. The Vigil®2+Xtreme will not activate below this altitude. To avoid unexpected firing of the cutter, you must switch OFF your Vigil®2+Xtreme before travelling in a closed vehicle (car, bus, train ...) due to possible air pressure variation. However, there is no problem travelling in an open vehicle at the drop zone altitude.

Prior to opening the door of an aircraft in flight while it is in the activation zone (below 500 m or 1640 ft.), it should be determined whether or not there are any Vigils on board which are set to Student Mode. Certain aircraft configurations can create a pressure spike which can activate a Vigil®, when the aircraft is in the activation zone.

As long as your Vigil®2+Xtreme is not measuring the switch on pressure or its "Ground zero" reference (90 ft / 27,5 m) it will stay airborne, (measuring 8 times/sec.) You must ALWAYS switch off your Vigil®2+Xtreme before any move to another location and switch on your Vigil®2+Xtreme at the new take-off zone/location to implement the new "Ground zero" reference.

Be aware that any implemented altitude correction will not affect the original "Ground zero" reference altitude. It will adjust the activation altitude in function of the implemented altitude correction parameters. After such a jump, you need to switch your Vigil®2+Xtreme off and back on again to implement the new "Ground zero" reference altitude and manually remove the previous altitude correction. (If no longer required)

If descending in an aircraft with an armed Vigil®2+Xtreme, the pilot must be advised of the status of your Vigil®2+Xtreme to limit his descent rate according to the mode less than 43m/sec. (8464 feet per minute) and in the activation zone.
4.1. Recommendations

- To get the correct GROUND ZERO REFERENCE, you must only switch the Vigil® 2+Xtreme ON once you arrive at the take-off zone. Afterwards, enter any altitude correction, if needed.
- When the elevation of your landing zone differs by more than 90 ft (27.5 m) compared to your initial take-off zone and this landing zone becomes your new take-off zone, it is necessary to switch your Vigil® 2+Xtreme off and back on again so that it can re-calibrate itself.
- Check the display carefully before each jump to verify that its settings are correct.
- Manually shut down your Vigil® 2+Xtreme after the last jump of the day.
- The Vigil® 2+Xtreme will shut down automatically 14 hours after its start-up.
- To avoid undesired Vigil® 2+Xtreme firings, if you enter a plane with a pressurized cabin, please notify the pilot that he is not allowed to do any pressurization tests to pressures equivalent to the Vigil® 2+Xtreme activation altitude (below 1640 ft or 500 m), with a pressure variation equivalent to, or in excess of, a vertical speed greater than 96 mph (43 m/sec).

- It is impossible to enter a negative altitude correction of more than 1500 ft or 500 m below mean sea level (equivalent to >1090 mbar). In this case the controller will indicate «Invalid» and the Vigil® 2+Xtreme unit will not switch on.

5. Vigil® 2+Xtreme Components

The Vigil® 2+Xtreme’s Dual Battery Pack (page 25 § 5.2.), the Pulses Plus Element (page 26 § 5.3.) and the Electronic Unit (page 26 § 5.4.) are located in an unbreakable, aluminum alloy Main Box (page 25 § 5.1).
Two flexible electric cables, reinforced by 2 Kevlar cords, ensure the junction between the main unit (Main Box) and the Cutter Unit (page 27 § 5.5) as well as between the Main Unit and the Control Unit (page 28 § 5.6).
5.1. Main Box

The **Vigil®2+Xtreme** electromagnetic shield was thoroughly tested to ensure that it would function as intended when exposed to electromagnetic interference (up to 100 volt/m). Such interference can be found in airports and aircraft. The special shielding foil protects against electromagnetic interference waves produced by:

- Radio communications
- Mobile phones
- Transponders
- Radar

Two connectors and three integrated stainless steel filters are fixed in the Main-Box. The stainless steel filter ensures protection against pollution, such as the intrusion of dust, and provides an instant transfer of outside air pressure to the pressure sensor (keep it clean and dry).

**NEVER OPEN THE MAIN BOX OF THE VIGIL®2+Xtreme!!**

Opening the main-box of Vigil®2+Xtreme voids all warranties!!

5.2. Dual Battery Pack - NATO Stock Number (NSN) 6130-13-119-7106

The battery pack is composed of 2 lithium AA cells in the lower half of the case. It is not subject to any memory effect and is extremely long lasting. The battery pack works at a temperature range from -13°F to +158°F or from -25°C to +70°C. The use of low consumption components in conjunction with a sophisticated power management program has significantly improved the battery’s life span. The battery’s life span is expected to be a minimum of 5 years, or 2000 jumps. When the «Bat Low» or «Bat Rpl» message appears, the battery pack needs to be replaced (see page 29 § 7.1).

Regardless of the above-stated life span, the battery pack must be replaced after 10 years of use (max. operational lifetime).
5.3. Pulses Plus Element

The “Pulses Plus” technology supplies the high peak current necessary for the cutter to activate and cut the loop in less than 2 milliseconds.

This element has an operational lifetime of 20 years and under normal circumstances will never need replacement.

5.4. Electronic Unit

The entirely automated assembly of surface-mounted electronic components (SMD, Surface Mounted Devices) is manufactured to the highest standards. The SMD components assemblies are assembled with permanent electronic and optical production control equipment in order to ensure the highest level of quality and reliability, equivalent to military standards. The electronic unit also works as a data recorder. It memorizes parameters (see page 18 § 3.5.6) such as the total number of jumps, the duration of the last freefall jump and the total freefall time. This data can be viewed directly on the control unit’s LCD display.

The Vigil®2+Xtreme memory contains the graphs of the last 16 minutes of freefall and partial canopy ride, and can be downloaded to a PC using the Vigil®2+Xtreme communication port. (see page 36 § 9.)
5.5. Cutter Unit

The Cutter Unit is patented and designed especially for the Vigil®2+Xtreme and has a life expectancy of 20 years. The cutter severs the reserve loop using a pyrotechnical cutting action with a circular knife. Due to a high internal temperature, it will also melt the loop to ensure its separation. The cutter is completely enclosed to avoid any possible damage to the parachute.

If the Vigil®2+Xtreme is activated for a lifesaving event, a new cutter will be supplied free of charge, only upon presentation of a complete Life Saving Report, approved by Vigil®.

This document can be downloaded from the Vigil® website http://www.vigil.aero/.

➤ The cutter is field (rigger) replaceable. (see page 30 § 7.2).

➤ Some countries’ regulations require a certified rigger to do such replacements. In this situation you must adhere to your country’s rules.

➤ A Dual Cutter can be supplied for reserve containers closed with a dual pin.
5.6. Control Unit.

The control unit is composed of a reversible display, a red LED that sets the timing of the start up and shut down procedure, a green LED that confirms the end of the start up procedure and an orange push button situated in the standard configuration, on the right of the display.

The 26 x 96 dots display on the control unit allows clear alphanumerical communication with the parachutist; it is protected by a special scratchproof coated screen and a stainless steel cover.

The red LED is also used as transmitter for the infrared communications port. (see page 36 § 9).
6. **Waterproof – IP 68**

6.1. The **Vigil®2+Xtreme** has been designed to resist water immersion of up to 1.8 meter (6 ft) depth for a maximum of 24 HOURS (IP 68). After such immersion or contact with water, the **Vigil®2+Xtreme** built-in stainless steel filter does not need to be replaced. If the **Vigil®2+Xtreme** has been in contact with salt water, it needs to be rinsed with clear water. After contact with water, the 3 filters need to be dried with a water absorbent cloth, household paper or a cotton swab. Leave the device for 12 hours in an environment with a ambient temperature of +18°C (+65°F) before the installation in a rig.

IT IS MANDATORY TO SEND THE **VIGIL®2+Xtreme** BACK TO THE FACTORY FOR AN INSPECTION OF THE UNIT BEFORE THE NEXT JUMP IN THE FOLLOWING CASES:

- IF THE **VIGIL®2+Xtreme** HAS BEEN IMMERSED IN WATER DEEPER THAN 1,8 METER (6 ft).
- IF THE **VIGIL®2+Xtreme** HAS BEEN IMMERSED FOR MORE THAN 24 HOURS IN WATER.

⚠️ **Do not open your Vigil®2+Xtreme’s main box case.**

7. **Replacement of Parts of the Vigil®2+Xtreme**

7.1. Replacing the Battery Pack.

**Vigil®2+Xtreme** Dual Battery Pack, can only be changed by A.A.D nv/sa or Vigil America. Therefore the **Vigil®2+Xtreme** has to be returned for a battery change. For Battery replacement, please contact A.A.D.nv/sa or Vigil America. The battery must be replaced after 10 years of use (operational life).
7.2. Replacing the Cutter or Control Unit

» We highly recommend that replacements of a Cutter or Control Unit from the Vigil®2+Xtreme be done by a certified rigger or through a Vigil®2+Xtreme dealer

Replacing the Cutter Unit after activation, or the Control Unit if necessary, is a simple and fast process which can be performed quite easily by your rigger or through a Vigil®2+Xtreme dealer. Every (dis)assembling operation must be done with the Vigil®2+Xtreme switched off. (see page 21 § 3.5.9.)

How to be sure the Vigil®2+Xtreme is switched off.

1. Press on the push button only one single time to display “Hello” on screen.
2. Wait until a blank screen appears again (proves that the unit is switched off).
3. Perform procedure as shown and described on page 31.
4. Perform a new start up procedure for final check. (see page 13 § 3.5.2.)
5. Fill in the Service Card (see pages 32 & 33 § 7.3.)
It is mandatory to CORRECTLY place the Connectors Locking Clip!!
If the CLC is missing, or damaged, or if not correctly positioned, DO NOT JUMP with this Vigil® 2+ Xtreme!!
7.3 Service Card.

Every replacement part comes with a Service Card (Vigil® AAD Service Card) with a hologram number and a date of manufacture (DOM) for the cutters, the software version for the control units. Others can be for example a software upgrade. The card is identified with a hologram sticker with a new number.

When the replacement of a subpart has been done, it is mandatory to proceed as follows:

1. Fill out the Service Card.
2. Send a copy of the Service Card to A.A.D. nv/sa. by fax +32 2 7360627 or via e-mail to service@vigil.aero
3. Hand it to the owner of the Vigil®. Make sure that the owner keeps the original Service Card with the original Test Certificate card and the documents of the rig.

This procedure is important for our After Sales Service, as it allows us to update our files and to guarantee the replacement part with a 2 year warranty.
Vigil® AAD Service Card

This spare part has been tested in accordance with Advanced Aerospace Designs manufacturing specifications valid on the Date Of Manufacture (D.O.M.). To validate your customer's warranty, please fill in and fax us a copy of this card: +32(2) 736 06 27

- Battery
- Cutter
- Controller
- Other:

D.O.M.: ___________  
D.O.M.: 03/14  
VER.: ___________

Testing Location: Brussels, Belgium

Tested By: Denis Van den Broeck

Technical Support

* VASC: Vigil Approved Service Center

QC Nr: 13626

Mounted on the Unit:

# ___________ / QC Nr: ___________

By: ___________

Rigger Nr: ___________

Or VASC* Nr: ___________

Date: ___________

Signature: ___________

To be completed by the rigger or person who performed the handling.
8. Technical specifications

8.1. Glossary

**Electromagnetic shielding**: A special metal shield that protects the electronic circuits from electromagnetic waves to avoid malfunctions of the device by electromagnetic interference (from radars, cellular phones ...)

**Cutter Unit**: A cutting system that acts by a pyrotechnical double cut of the loop inside the reserve container.

**Infrared Port**: Transmitter/receiver of infrared signals that allows a bidirectional exchange of data between two devices.

**Kevlar**: Non elastic carbon fiber used to reinforce the cables. It prevents direct traction on the electrical connections, and it reinforces mechanically the junction cables of the Control Unit and the Cutter.

**LCD**: Liquid Crystal Display. The LCD is used to visually convey information from the Control Unit to the user.

**LED**: Light Emitting Diode; A LED is used to flash during the start up and shut down procedures of the device.

**SMD**: Surface Mount Device. Small electronic components manufactured to be of reduced size and low power consumption. Such technology allows the electronic circuit to be mounted automatically, which gives very reliable and compact electronic systems.

**Connectors Locking Clip (CLC)**: A plastic molded clip that prevents the Cutter or Control Unit connector from unscrewing unintentially or accidentally from the main-box.
8.2. Dimensions

- Main Box: 102 x 51 x 20 mm
- Cutter Unit: 55 x 9 mm
- Control Unit: 63 x 18 x 11 mm
- Total Weight: 400 g
- Standard Wire Length: - Cutter unit: ± 600 mm
  - Control unit: ± 900 mm
- Volume: 130 cm³

8.3. Operating description

- Altitude correction: from +6000 ft (+2000 m) up to -6000 ft (-2000 m)
- Operating range: -1800 ft (-600 m) up to more than 100.000 ft (9200m)
- Active Airborne range: -1800ft (-600m) up to +30.000ft (9200m)
- Operation: Vigil®2+Xtreme see § 3
- Working temperature: from -13°F (-25°C) to 158°F (+70°C)
- Life time: Maximum 20 years life expectancy
- Maintenance: No scheduled maintenance required
  - In function of self tests messages during start-up
- Waterproof: IP 68 - immersion at 1.8 m (6 ft) for a maximum of 24 hours
- Stand-by: 14 hours
- Power Pack: 3.6V dual lithium Vigil® AA battery Life time min 2000 jumps or max. 10 years

8.4. Units and conversion factors

- Length: … Ft x 0,3048 = … m or … m x 3,281 = … ft
- Pressure: … inHg x 33,86 = … mbar/hPa or … mbar/ hPa x 0,02953 = … inHg
- Speed: … mph x 1,6093 = … km/h or … km/h x 0,6214 = … mph
- Temperature: (… C° x 9/5) + 32 = … F° or (… F°- 32) x 5/9 = … C°
9. Communication Port – IR Download Box (optional)

NATO Stock Number (NSN) 7025-13-119-7111

The Vigil®2+Xtreme Control Unit is equipped with an infrared communication port that allows the user to download the freefall data recorded from the previous jumps. An I.R. Download Box and the associated management software is available as an option (see your dealer for more information.) All of the parameters of the last 16 minutes of freefall and partial canopy ride are recorded (maximum 16 jumps), as well as the total number of jumps and other information. (see page 18 § 3.5.6.)

Reminder:

• The Vigil®2+Xtreme is a safety device and is NOT engineered to be used as a data logger.

• AAD nv/sa operates a policy of continuous development. Therefore, we reserve the right to make modifications and/or improvements to any of the products described in this manual, without notice.

• All trademarks mentioned in this manual are the property of their respective owners.

⇒ The Vigil®2+Xtreme is delivered in a custom-built case. After installation of the device in the rig container, this case can easily be used to carry some of your accessories, such as glasses, audible altimeter, altimeter, camera,...
10. SERVICE LIFE LIMIT OF VIGIL®2+Xtreme UNITS

The Vigil®2+Xtreme has been designed for maximum 20 years of use. It will do a complete check of each operating parameter each time it is switched on. If a parameter is out of tolerance, this will be indicated on the Control Unit display screen, and the unit will not switch on.

11. DISCLAIMER AND LIMITED WARRANTY THE USER MUST READ, UNDERSTAND, AND AGREE TO THE TERMS OF THIS DISCLAIMER BEFORE USING THE VIGIL®2+Xtreme

AAD NV/SA intensively tests each VIGIL®2+Xtreme to assure its reliability. Each VIGIL®2+Xtreme has passed various documented technical inspections, calibration tests, quality control inspections and a final functional test (7 simulated jumps in a test chamber) before shipment. These are all documented and available to customers. However, the risk of electronic, mechanical or external factors causing a malfunction or failure cannot be totally excluded.

BUYER UNDERSTANDS THAT BECAUSE OF THE UNAVOIDABLE DANGER ASSOCIATED WITH THE USE OF A PARACHUTE SYSTEM, SKYDIVING, AND THE USE OF A VIGIL®2+Xtreme, THE MANUFACTURER MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, EXCEPT THAT THE MANUFACTURER WILL REPLACE OR REWORK DEFECTIVE PARTS FREE OF CHARGE WITHIN TWO YEARS FROM THE DATE OF PURCHASE. OTHER THAN THE FOREGOING, THE VIGIL®2+Xtreme IS SOLD WITH ALL FAULTS AND WITHOUT ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE. (continue next page 38)
11. DISCLAIMER AND LIMITED WARRANTY (continuation of page 37)

THE MANUFACTURER DISCLAIMS ANY LIABILITY UNDER THE LAW, IN TORT OR OTHERWISE, FOR DAMAGES, DIRECT OR CONSEQUENTIAL, INCLUDING BUT NOT LIMITED TO DAMAGES FOR PERSONAL INJURIES, WRONGFUL DEATH, PROPERTY DAMAGE AND LOSS OF USE OF EQUIPMENT, RESULTING FROM ANY MALFUNCTION, OR FROM ANY DEFECT IN DESIGN, MATERIAL, WORKMANSHIP OR MANUFACTURING, WHETHER CAUSED BY NEGLIGENCE ON THE PART OF THE MANUFACTURER, OR ANY MANUFACTURER OF ANY PART, ACCESSORY, COMPONENT, OR APPLIANCE MADE A PART OR APPURTEANT TO THE VIGIL®2+Xtreme. BUYER, BY USE OF THE VIGIL®2+Xtreme, AND/OR ALLOWING IT TO BE USED BY OTHERS, WAIVES ANY LIABILITY ON THE PART OF THE MANUFACTURER FOR PERSONAL INJURIES, WRONGFUL DEATH, LOSS OF CONSORTIUM, PROPERTY DAMAGE AND LOSS OF USE OF EQUIPMENT. THE WARRANTIES SET FORTH ABOVE AND THE OBLIGATIONS AND LIABILITIES OF THE MANUFACTURER THEREUNDER, ARE EXPRESSLY IN LIEU OF, AND BUYER HEREBY WAIVES AND RELEASES, ANY AND ALL OTHER WARRANTIES, AGREEMENTS, GUARANTEES, CONDITIONS, DUTIES, OBLIGATIONS, REMEDIES OR LIABILITIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION GUARANTEES, CONDITIONS, DUTIES, OBLIGATIONS, REMEDIES OR (continue next page 39)
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IMPORTANT NOTE: THERE IS A QUALITY CONTROL NUMBER HOLOGRAM (4 Alphanumeric digits) ON EACH OF THE UNITS OF A VIGIL®2+ (Pyrotechnic Cutter, Pulses Plus Element, Control Unit, and Main Box). REMOVAL OF ANY Q.C. HOLOGRAM STICKER, OR THE BLUE SEALING PAINT, (EXCEPT BY THE MANUFACTURER) VOIDS THE WARRANTY.

NEVER JUMP WITH A BLANK SCREEN!!!
12. Grafcet/Road Map (Parameter sequence flow chart)

Set up

Hello

Bat OK or Bat Low or Bat Rpl

Cut OK or Cut Err

Stop

(1)

Setup

(2)

INFO or

Alt Cor

(3)

CONFIG or

Ver: 8.88 or +8888m

Go to (1)

Vigil will not switch on Consult your dealer