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The sale of products, services of goods governed under this publication are covered by MYLAPS’s standard Terms and Conditions of Sales and this product manual is provided solely for informational purposes. This publication is to be used for the standard model of the product of the type given on the cover page.

MYLAPS Manual: MYLAPS PSR/01-2010
1: Introduction

IMPORTANT:
Before using this MYLAPS Portable System Rack for the first time, read this instruction manual carefully, especially the precautions on page 8.

This manual describes the MYLAPS Portable System Rack (PSR). The PSR is a stainless steel housing designed to setup an easily removable detection point which protects your sensitive electronic equipment under various conditions. The PSR always needs to be equipped with a Controller (part number 15R033) that functions as a True UPS (Uninterruptable Power Supply) in combination with the wide range mains power supply and the battery that are fitted in the PSR. Refer to the separate controller manual for details about these and other controller functionalities.

The PSR also contains 2 cooling fans powered by the Controller. The PSR is designed in such a way that the airflow keeps the installed equipment at normal operating temperature, even in warm environments. The PSR is splash proof and the cable entry is constructed in such a way that the equipment remains protected under various weather conditions.

The PSR can be equipped furthermore with one or multiple MYLAPS decoders.
Turn the cabling entering the PSR around the strain relief pins. This helps to reduce force on the connectors when the cables are being pulled. Always close the top cover to protect the equipment. GPS satellite reception will not work through metal parts. To receive GPS satellites, put the supplied antenna on top of the PSR cover. Confirm correct operation of GPS on the display of the controller unit. To extend battery life always store the PSR with a fully charged battery. Since the battery also discharges when the PSR is not in use, recharge the unit before use.
3: Disassembly

The PSR consists of a stainless steel metal housing, which includes the battery and a removable sub-assembly, which contains all other equipment. There are only two connections between the sub-assembly and the housing which are the battery and the earthing cables. On top of the battery a fuse holder is installed. The fuse is standard 5A ATO fuse. Always replace the fuse with the same type.

To remove a decoder or controller follow the next steps:

1. Disconnect the mains power!!
2. Remove the 4 screws (fig.1, no.1 and no.2) and lift the rack.
3. If removing a unit, disconnect all cabling at the rear side of the unit.
4. Release the appropriate screws by pushing them up while turning the slot into vertical direction.
5. Remove the device.

To install a decoder or controller follow the next steps:

1. Disconnect the mains power !!
2. Remove the 4 screws (fig.1, no.1 and no.2) and lift the rack.
3. Remove the blind panel at the desired location by pushing the appropriate screws and turning the slots into vertical direction.
4. Slide the controller or decoder into the guiding rails.
5. Fix the device by screwing the screws.

Connect the required cabling - for a decoder usually only an ethernet cable to the controller and a coaxial cable to the loop is required.
Error messages
If the controller display indicates: “Error, battery connection, check cable/fuse”, disconnect mains power and check the following:

1. Is the power cord from the battery properly connected to the controller (marked with DC).

2. Are both wires connected to the battery.

3. Check the battery fuse. The fuse can be pulled out of the holder. If you need extra fuses see the specifications for details or contact AMB. Contact AMB if after replacing the fuse the error appears again. Never replace the fuse with another type.
4: Schematic Overview

Figure 1: Schematic overview TSB
5: Precautions

The PSR protects your sensitive electronic equipment against rain and dust (according to the IP43* standard). The PSR is constructed in such a way that this protection only works when the PSR stands in upright position.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1.</td>
<td>The PSR is protected against dust and water according to the IP43 standard, more excessive conditions impose the risk of an electric shock.</td>
</tr>
<tr>
<td>2.</td>
<td>Do not operate the PSR if the PSR is not in upright position, and take care it remains in upright position.</td>
</tr>
<tr>
<td>3.</td>
<td>To prevent electric shock always use appropriate safety earthing.</td>
</tr>
<tr>
<td>4.</td>
<td>Always use three-wire extension cords with 3-pronged plugs, marked “for outdoor use”.</td>
</tr>
<tr>
<td>5.</td>
<td>Do not use the power cord when any damage is noted.</td>
</tr>
<tr>
<td>6.</td>
<td>Never leave the PSR unattended while mains powered, kids or animals might damage the cabling.</td>
</tr>
<tr>
<td>7.</td>
<td>To prevent the risk of an electric shock, always disconnect the mains power before disassembling.</td>
</tr>
<tr>
<td>8.</td>
<td>The manufacturer cannot be held responsible for stolen and or damaged PSR’s</td>
</tr>
<tr>
<td>9.</td>
<td>The manufacturer cannot be held responsible for any damage forthcoming from incorrect, or misuse of the PSR and for not following the instructions in this manual.</td>
</tr>
<tr>
<td>10.</td>
<td>Always use the supplied packaging in case it is necessary to facilitate shipping the PSR back to MYLAPS.</td>
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<tr>
<td><strong>11.</strong></td>
<td>Except for the battery fuse, which is mounted on top of the battery, there are no user replaceable parts inside, leave servicing to qualified MYLAPS personnel.</td>
</tr>
<tr>
<td><strong>12.</strong></td>
<td>Avoid airline transportation handling the PSR as normal baggage. The PSR contains sensitive electronic equipment. Check in as “excessive baggage” to avoid that the equipment is being handled roughly and use appropriate packaging.</td>
</tr>
<tr>
<td><strong>13.</strong></td>
<td>For airline transportation, include the supplied “material safety data sheet” of the internal battery.</td>
</tr>
<tr>
<td><strong>14.</strong></td>
<td>Watch your fingers as an open lid may close suddenly.</td>
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<tr>
<td><strong>15.</strong></td>
<td>Do not close openings on either side of the housing.</td>
</tr>
</tbody>
</table>

* **IP43:**
Protection against contact by small tools and wires. Protection against small foreign objects (greater than 1mm) and protection against rain. No harmful effect from rain at angle less than 60 degrees from vertical.
CE

CE information:
This device complies with the EMC directive 89/336/EEC. A copy of the declaration of conformity can be obtained at:

MYLAPS Sports Timing
Zuiderhoutlaan 4
2012 PJ Haarlem
The Netherlands

FCC

FCC information:
This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This equipment may not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.
### Appendix B: Technical Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>Stainless steel</th>
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</thead>
<tbody>
<tr>
<td>Dimensions (w x l x h)</td>
<td>190 x 370 x 275mm 7.5 x 14.6 x 10.8”</td>
</tr>
<tr>
<td>Weight (including controller &amp; battery)</td>
<td>11.7kg / 24.3lb</td>
</tr>
<tr>
<td>Humidity range</td>
<td>10% to 90% relative</td>
</tr>
<tr>
<td>Power supply input</td>
<td>100-240VAC 50/60Hz 1.5A</td>
</tr>
<tr>
<td>Battery</td>
<td>Sealed Lead Acid 12V / 12Ah</td>
</tr>
<tr>
<td>Battery fuse</td>
<td>ATO Fuse Littelfuse No. 257 005</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20°C to +50°C  -4°F to +122°F</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP43</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Guarantees & Warranties

MYLAPS, formerly AMB, warrants that, for a period of three (3) years from the date of shipping the decoders and the MYLAPS MX Rechargeable Power (AMBmx), MYLAPS RC DP (AMBr dc), MYLAPS KART DP (TranX160 DP), MYLAPS Kart Rechargeable Power (TranX160), MYLAPS Car/Bike DP (TranX260 DP), MYLAPS Car/Bike Rechargeable Power (TranX260), MYLAPS Car/Bike Pro (TranX Pro) transponders covered by this warranty with defects, as determined solely by MYLAPS, caused by faulty materials, workmanship or design will be repaired or replaced, unless such defects were the result of any of the following: shipping; improper installation, maintenance or use; abnormal conditions of operation; attempted modification or repair by the customer or any third party; use of the goods in combination with other items; or an act of God. If repair or replacement of the goods is not possible or economical for MYLAPS, MYLAPS may, at its option, refund the purchase price of the goods or deliver replacement goods at its sole discretion. MYLAPS’s liability shall be strictly limited to replacing, repairing or issuing credits at its option.

MYLAPS warrants that, for a period of two (2) years from the date of shipping the ProChip, MYLAPS Kart Fixed Power (TranX140) and the MYLAPS RC Rechargeable Power (AMBr c) transponders covered by this warranty with defects, as determined solely by MYLAPS, caused by faulty materials, workmanship or design will be repaired or replaced, unless such defects were the result of any of the following: shipping; improper installation, maintenance or use; abnormal conditions of operation; attempted modification or repair by the customer or any third party; use of the goods in combination with other items; or an act of God. If repair or replacement of the goods is not possible or economical for MYLAPS, MYLAPS may, at its option, refund the purchase price of the goods or deliver replacement goods at its sole discretion. MYLAPS’s liability shall be strictly limited to replacing, repairing or issuing credits at its option.

MYLAPS warrants that, for a period of one (1) year from the date of shipping the MYLAPS Onboard Display kit (TnetX Display Kit) covered by this warranty with defects, as determined solely by MYLAPS, caused by faulty materials, workmanship or design will be repaired or replaced, unless such defects were the result of any of the following: shipping; improper installation, maintenance or use; abnormal conditions of operation; attempted modification or repair by the customer or any third party; use of the goods in combination with other items; or an act of God. If repair or replacement of the goods is not possible or economical for MYLAPS, MYLAPS may, at its option, refund the purchase price of the goods or deliver replacement goods at its sole discretion. MYLAPS’s liability shall be strictly limited to replacing, repairing or issuing credits at its option.

MYLAPS warrants that, for a period of one (1) year from the date of shipping, all other goods covered by this warranty with defects, as determined solely by MYLAPS, caused by faulty materials, workmanship or design will be repaired or replaced, unless such defects were the result of any of the following: shipping; improper installation, maintenance or use; abnormal conditions of operation; attempted modification or repair by the customer or any third party; use of the goods in combination with other items; or an act of God. If repair or replacement of the goods is not possible or economical for MYLAPS, MYLAPS may, at its option, refund the purchase price of the goods or deliver replacement goods at its sole discretion. MYLAPS’s liability shall be strictly limited to replacing, repairing or issuing credits at its option.
If the requirements set forth above and described under Remedies and Damages are not complied with, our warranty/guarantee shall not apply and we shall be discharged from all liability arising from the supply of defective goods.

EXCEPT AS EXPRESSLY PROVIDED IN THIS SECTION, MYLAPS MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OR MERCHANTABILITY, FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE, OR NONINFRINGEMENT, AND MYLAPS HEREBY DISCLAIMS THE SAME.

Remedies and Damages
1. MYLAPS shall not incur any liability under the above warranty unless:
   i) MYLAPS is promptly notified in writing upon discovery by the customer that such goods do not conform to the warranty, and the appropriate invoice number and date of purchase information is supplied;
   ii) The alleged defective goods are returned to MYLAPS carriage pre-paid;
   iii) Examination by MYLAPS of goods shall confirm that the alleged defect exists and has not been caused by unauthorized use (including, without limitation, the use of an AMB decoder with non-MYLAPS hardware) misuse, neglect, method of storage, faulty installation, handling, or by alteration or accident; and
   iv) With respect to MYLAPS decoders, customer has upgraded the firmware in its decoder within one month after MYLAPS has offered to provide customer with such upgraded firmware.
2. The customer acknowledges that the goods may include certain firmware imbedded therein. MYLAPS hereby grants a license to customer to use the imbedded firmware in an MYLAPS decoder, but only to the extent the decoder is used in connection with MYLAPS hardware. MYLAPS shall have the right to terminate the license immediately upon written notice to customer in case MYLAPS has a reasonable belief that customer at any time has used the MYLAPS decoder in connection with non-AMB hardware. Further, customer may not copy, compile, reverse compile, disassemble, translate, analyze, reverse engineer or attempt to reverse engineer the firmware, except as permitted by applicable law.
3. In addition, customer grants MYLAPS the option to repurchase any MYLAPS decoder if MYLAPS has a reasonable belief that customer has used the MYLAPS decoder in connection with non-MYLAPS hardware. The repurchase price shall be the fair market value on the date MYLAPS provides notice to customer that it intends to repurchase the decoder.

The above mentioned warranty/guarantee is irrespective of any rights granted to the buyer of MYLAPS equipment manufactured or sold by MYLAPS based on the laws of the Netherlands. Any correspondence regarding the above mentioned guarantee must be addressed to MYLAPS:

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