

Voice Release System

Model Number: VRS-102

Issue No: 04/23-11



Information

General information about BRB Systems and the Products/Services available, can be found at the following internet address:

<http://www.brbsystems.com>

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Notice

This document contains important safety information relating to the product detailed. Ensure that all staff read and follow the safety information in this document and also in any of the other related documentation.

Document	Referenced	Location

Date	Version	Name	Description
13/05/2020	01/20-05	L O DAVE	INITIAL DRAFT
16/05/2020	02/20-05	J N JONES	APPROVED
03/07/2020	03/20-07	J N JONES	Maintenance Schedule Updated
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Section A

Safety

Overview

Read the information in this section thoroughly before using the equipment. This section contains recommendations and practices applicable to the safe installation, operation and maintenance (hereafter referred to as 'use') of the product described in this document (hereafter referred to as 'equipment' or 'machine'). Additional safety information may be contained in other sections of this document.



WARNING! Failure to follow the safety messages, recommendations and hazard avoidance procedures provided in this document can result in personal injury, including death, damage to equipment and/or property.

Owner Responsibilities

Equipment owners are responsible for managing safety information, ensuring that all instructions & regulatory requirements for use of the equipment are met & for ensuring that use is by competent, trained & suitably qualified personnel only.

Information

Research & evaluate safety information from all applicable sources, including the owner-specific safety policy, best industry practices, governing regulations, material manufacturers' product information & this document.

Make safety information available to equipment users in accordance with governing regulations & contact the governing authority for further information, where required.

Maintain safety information, including safety labels and stickers, inspection reports and warning signage, in readable condition.

Regulations & Standards

Ensure that the equipment is used in accordance with the information provided in this document, governing codes & regulations as well as best industry practices.

If applicable, receive approval from your facility's engineering and/or safety department, before installing or operating this equipment.

Provide appropriate emergency & first aid equipment & staff.

Conduct regular safety inspections to ensure required practices are being followed.

Re-evaluate safety practices and procedures whenever new staff are trained & when changes are made to the process or equipment.

Operator training

Equipment owners are responsible for ensuring that users:

Receive safety training appropriate to their job function as directed by governing regulations and best industry practices.

Are familiar with the equipment owner's safety & accident prevention policies & procedures.

Receive equipment & task specific training from qualified individuals.

NOTE: BRB Systems can provide equipment specific installation, operation & maintenance training.

Possess industry & trade specific skills & a level of experience appropriate to their job function.

Are physically capable of performing their job function & are not under the influence of any substance that degrades their mental capacity or physical capabilities.

Personal Protective Equipment

Equipment owners are responsible for ensuring that users:

Wear suitable eye protection while operating this equipment, in accordance with the procedures of the customer plant & current Health & Safety guidelines.

Wear suitable ear protection while operating this equipment, in accordance with the procedures of the customer plant & current Health & Safety guidelines.

Wear suitable safety clothing while operating this equipment, in accordance with the procedures of the customer plant & current Health & Safety guidelines. This clothing must not have loose trailing parts that could easily become caught or tangled in the moving components within the equipment.

Safety Practices

The following safety practices apply to the use of the equipment described in this document. The information here is not meant to include all possible safety practices, but notes some of the safety practices for equipment used in similar processes.

Intended Use

Use the equipment only for the purposes described & within the limits specified in this document.

Do not modify the equipment.

Do not use incompatible materials or unapproved auxiliary devices. Contact BRB Systems if you have any questions.

This equipment has been designed & manufactured to be a component part of a process line and must not be used until that line has satisfied the requirements of the directives & governing regulations applicable.

This equipment & its safety systems are designed to be operated by a single user, to eliminate the possibility of accidents caused through the switching on of equipment while personnel are manually intervening.

Instructions & Safety Signage

Read & follow the instructions provided in this document & other referenced documents.

Familiarise yourself with the location & meaning of any safety warning signage.

If you are unsure of how to use the equipment, contact BRB Systems for assistance.

Installation Practices

Install the equipment in accordance with the instructions in this document & that of the auxiliary devices.

Ensure that this equipment is rated for the environment in which it will be used. Power supply units marked as `12V only` must be used with 12V DC power sources only & are supplied ready for connection to a 12V car/leisure type battery. Car/Leisure batteries contain acid & so extreme caution must be exercised whilst handling them. 12V batteries are capable of supplying large amounts of current & care must be taken not to connect the + (red) and – (black) terminals together.

Power supply units marked as `240V only` must be used with 240V AC power sources only. Do not defeat the safety purpose of the polarized or grounding type plug fitted to this equipment. If the provided plug does not fit into your outlet, consult a qualified electrical engineer for rectification. Exterior 240V outlets should be RCD & surge protected for your safety. If the outlet is not RCD or surge protected, contact a qualified electrical engineer for rectification.

Ensure that utilising this equipment will not create a hazardous environment. Position the equipment for safe operation; observe any requirements for clearance between the equipment, people & objects.

Install lockable power isolators to all independently powered equipment & that you Properly ground/earth all equipment. Ensure that fuses of the correct type & rating are installed. Protect the power cord from being walked on, pinched or damaged in any way.

Unplug this equipment during rain and/or lightning storms or when unused for extended periods of time. Do not allow liquid entry into the system components.

Ensure that the trap is disconnected from its power source & unloaded before connection of the Trap Voice Release System. Failure to do so could result in the unexpected operation of the trap causing serious injury.

NOTE This system is powered by electricity. To reduce the risk of electric shock, do not remove any cover from the equipment. There are no user serviceable parts inside. Refer servicing to BRB Systems.

Installation Practices (cont)

Ensure that the trap is disconnected from its power source, unloaded & that it is completely disconnected from the Trap Voice Release System **before** attempting loading, maintenance or repair of the trap. Failure to do so could result in the unexpected operation of the trap causing serious injury.

Extreme caution must be taken when a manually loaded trap is in use. This system is not able to determine whether a loader is ready for a target to be launched. Therefore it is extremely important that shooters using the system be instructed on the importance of not making inadvertent calls as this may cause the system to operate the trap and cause serious injury to the loader.

Ensure that any cabling associated with this system is routed so as not to cause a tripping hazard for the systems operators or users. Where cabling must be routed across walkways the use of rubber walkway mats is recommended.

Always remember that the manual button release will operate even if the system power is switched off, failure to do so may result in serious injury.

Operating Practices

Familiarise yourself with the location & operation of all safety devices & indicators.

Confirm that the equipment, including all safety devices (covers, interlocks, warning lights etc) is in good working order & that safe environmental conditions exist.

Use the personal protective equipment PPE specified for each task. Refer to equipment safety information for PPE requirements.

Do not use equipment that is malfunctioning or shows signs of a potential malfunction.

Maintenance & Repair Practices

Allow only personnel with appropriate training & experience to operate, service or maintain the equipment.

Perform scheduled maintenance activities according to best practices & as may be specified in this document.

De-energize the equipment & all auxiliary devices before servicing.

Use only BRB Systems authorised parts.

Confirm the correct operation of all safety devices before placing the equipment back into operation.

Dispose of waste cleaning compounds & residual processing materials according to governing regulations.

Keep equipment safety labels clean, replace if worn or damaged.

Equipment Safety Information

This safety information is applicable to the equipment specified within the document.

Equipment covers **MUST NOT** be removed without first de-energizing the system. **ALL** covers **MUST** be replaced **BEFORE** the power supply is restored.



Under NO CIRCUMSTANCES should any interlocks, safety switches or safety features be overridden or inhibited.

Equipment Shutdown

To safely complete many of the procedures described in this document, the equipment must be first shut down. The level of shut down required varies by the type of equipment in use & the procedure being completed. The levels of shut down may include:

De-energizing the System

Isolate the system from all power sources before accessing any unprotected wiring or connection points.

turn off the equipment & all auxiliary devices connected to the machine.

Prevent the machine from being accidentally energized by using a lock & tag on all isolators & circuit breakers that provide power.

NOTE: Removal of electricity to this system may cause moving parts to change position on the trap.

General Safety Warnings & Cautions

Safe Systems of Work must be developed through a structured system of Risk Assessment & injury prevention Planning.

Do Not use an open flame on or near this equipment.

Check electrical cables & Connections daily for signs of excessive wear & damage.

Ensure parts are retained in suitable clips & brackets.

Check equipment safety features daily, prior to use.

Do not allow this equipment to be exposed to moisture, damp air or extreme temperatures.

First Aid

Owners must ensure that a suitable risk assessment is completed for the use of this equipment & that a robust action plan is in place to deal with exposure to potential injuries.

First aid equipment should be reviewed & expanded to include items designed to cope with potential injuries identified.

Section B

Description

Overview

This manual describes the installation & use of the VRS-102 Voice Release System. When possible, the reader is referred to the documents supplied with other 3rd party Products & Equipment. The reader should always familiarise themselves with 3rd party operator manuals before using this equipment.

Machinery options available are extensive & to simplify the presentation of information, this documentation may contain references to equipment options not included in the final machine configuration.

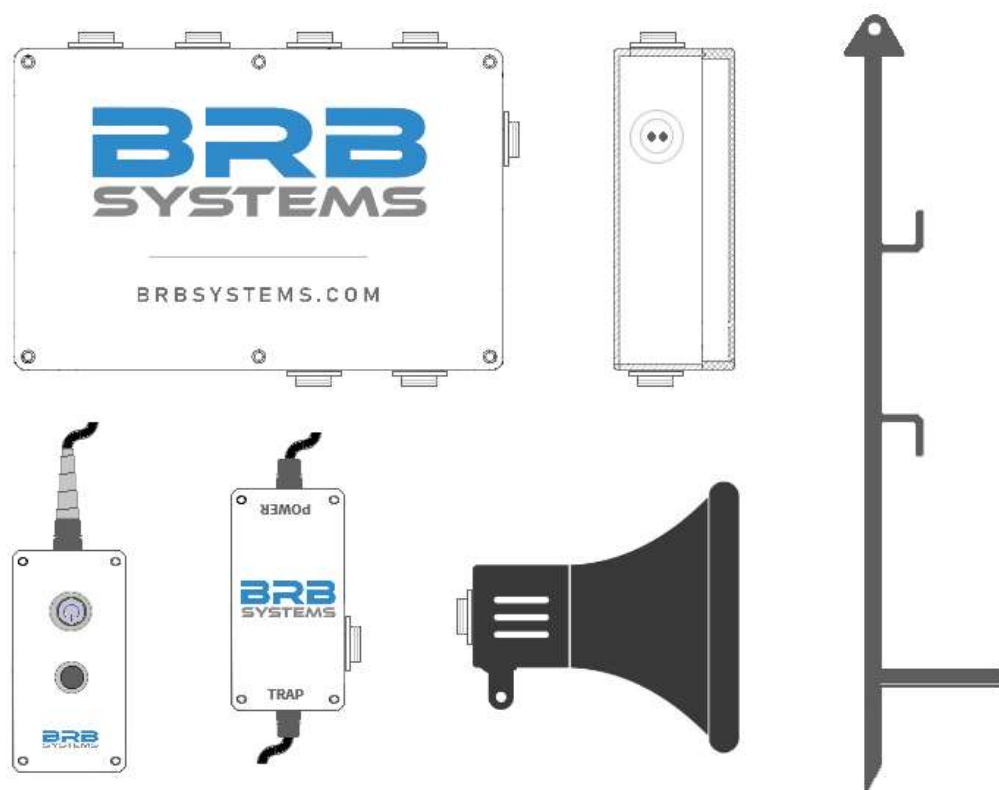


Intended Use

The VRS-102 Voice Release System has been designed to enable consistent, accurate, voice prompted release of clay targets from a range of traps available globally.

The system operates 5 microphones independently & also has a push-button release for manual operation, if required.

Simple plug & play technology, enables the user to quickly install the equipment & without the need for complicated setting up or adjustment.



Limitations of Use

Use this equipment only for the purpose for which it was designed. This equipment should not be used:

In a potentially explosive environment unless it has been inspected by a recognised DSEAR Safety Qualification Company & an appropriate certificate or report effectively approving use in such an environment, is held on file by the owner.

Where the environment in which it is to be operated has not been approved for use of associated equipment that form part of its function or process.

In an environment exposed to excessive heat, excessive cold or a damp, humid atmosphere.

Without due diligence having been paid to potential safety risks, operator suitability and training or electrical and mechanical condition.

Where ATEX Certified equipment requiring periodic inspection, has not been completed and recorded.

Additional Information

Refer to the following additional information for additional technical support.

Other Manuals

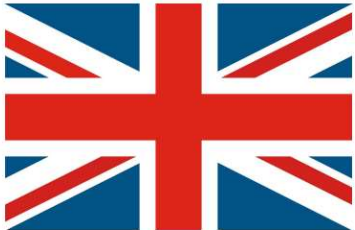
3rd Party equipment incorporated into this machine may have specific individual manufacturers' manuals.

Where provided, these manuals will be found in Section C of this manual.

Product Description

Unit Identification

In order to provide support, service or spare parts for your equipment, you will need the Serial Number. This information is located on the Product Identification plate, affixed to the outer enclosure.

 MADE IN GREAT BRITAIN
TO AVOID THE RISK OF ANY FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE

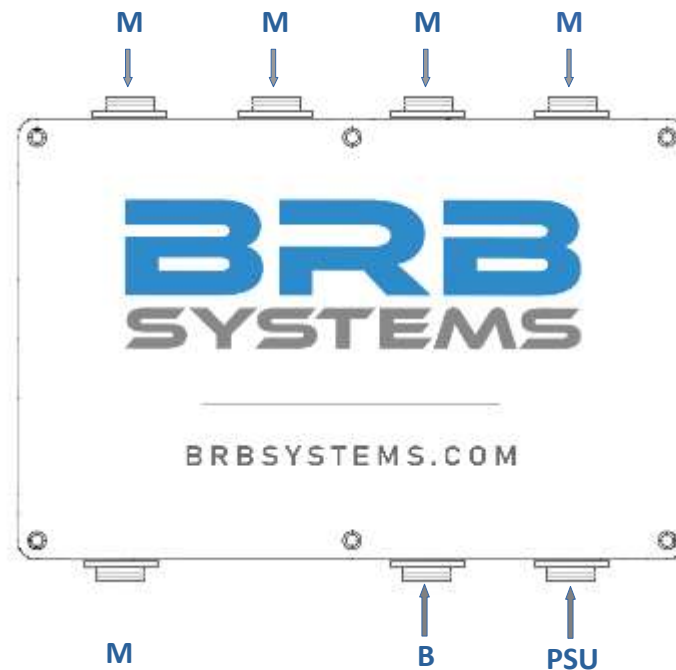
THERE ARE NO USER SERVICEABLE PARTS CONTAINED WITHIN THIS DEVICE

REFER SERVICING TO BRB SYSTEMS

Serial No:
Date:

Use this template to record your details for future use

Section Identification



Main Control Box

The Main Control Box contains the electronic controls & software for the system. It is the part of the equipment that all other aspects are connected to & is responsible for processing the calls.

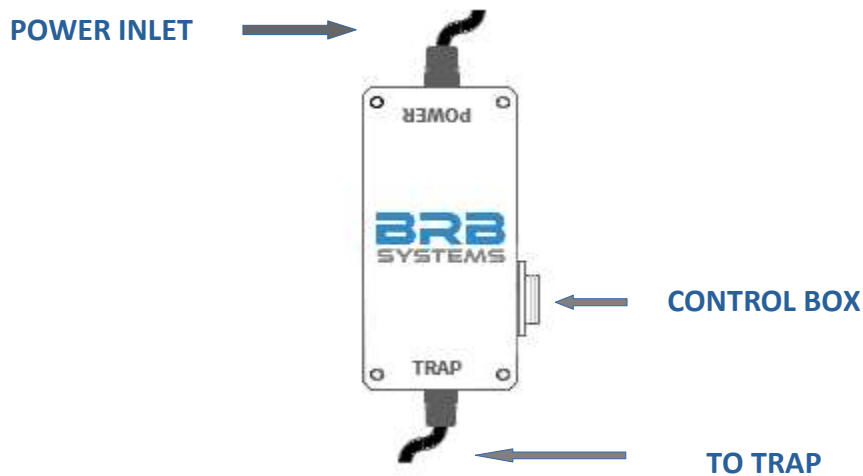
Cables are connected into one of the seven ports, to form the completed system, as follows:

- M** - 2 Pin Microphone Cable Port x 5
- B** - 4 Pin Push Button Release Cable Port x 1
- PSU** - 3 Pin Power Supply/Trap Release Cable Port x 1

Power Supply / Trap Release

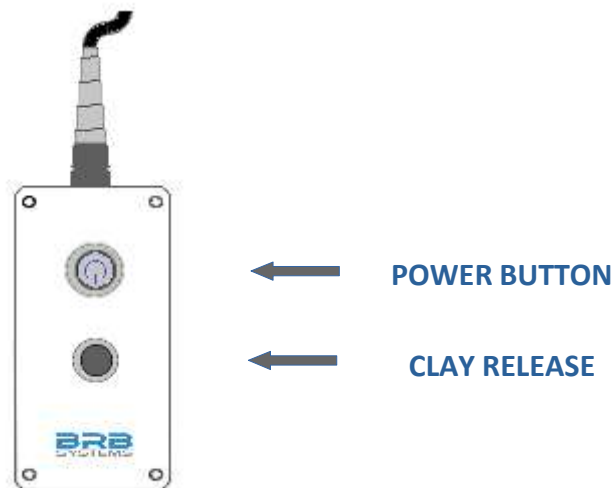
The Power Supply & Trap Release controls share this single unit. 12V Input leads will have standard battery type crocodile clips, whereas the 240v version will have a UK standard 3 Pin, fused plug installed.

The Trap Release wires are clearly red & black & are tinned ready for installation of a suitable plug, from your chosen trap manufacturer.



Button Release

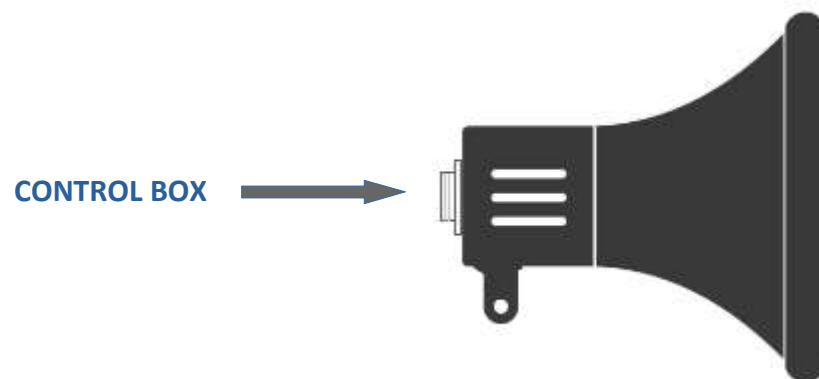
The Push-Button Release provides a manual release option for use & houses the main ON/OFF Button to power up the system.



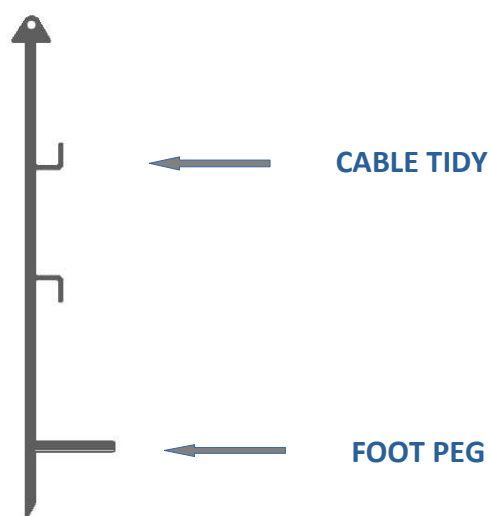
Microphones

The VRS-102 utilises 5 Microphones to intercept the shooters call & release a clay target.

Each Microphone requires a 2-Pin cable, connecting the port at the rear, to the Main Control Box.



Microphone Stands



The VRS-102 Microphones are mounted on the standard spiked Stands, for soft ground positions.

Optional Weighted plate stands are available for concrete or hardstanding positions.

Section C

Installation

Read this section thoroughly before installing this equipment. This section contains recommendations and practices applicable to the safe installation of the product described in this document. Additional information may be contained in other sections of this document.



WARNING! Allow only personnel with appropriate training & experience to install this equipment. The use of untrained or inexperienced personnel to install or service this equipment can result in injury or death and damage to the equipment &/or property.

Overview

This equipment has been designed & manufactured to suit market specifications including Weight, Height, Width, Length & Shape where applicable.

Under NO Circumstances should the equipment be installed in, or exposed to, a wet environment.

The system is designed to work with a wide range of Clay Trap Manufacturers products, but care must be taken to ensure that installation is only attempted with a compatible machine.

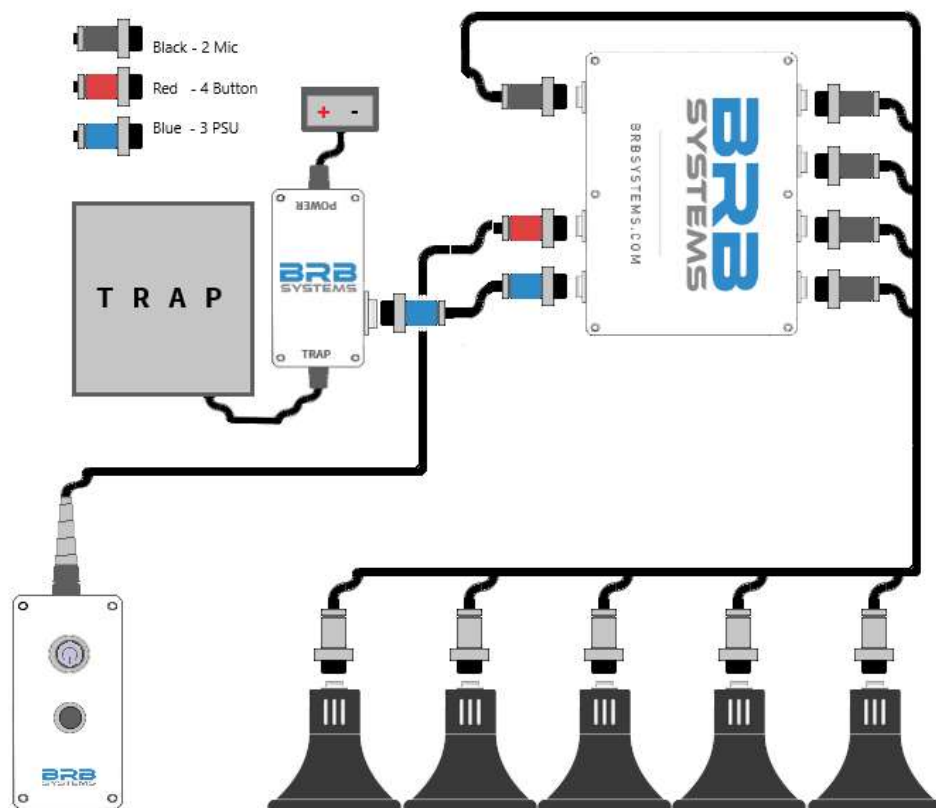
Equipment

Each trap Voice Release System is supplied with the following components:

- | | |
|-----|--|
| 5 x | Microphones |
| 5 x | Microphone Cables |
| 5 x | Microphone stands |
| 1 x | Power Supply / Trap Release box |
| 1 x | Main Control Box |
| 1 x | Main Control Cable |
| 1 x | Push-button Release box with cable |
| 1 x | No-ox terminal anti-corrosion compound |

Options for this system include:

- 5 x Weighted Microphone Stands & Plates
- 5 x Weight Plate assembly kit
- 1 x Main Control Box cover.



Microphones

Each of the 5 x microphones supplied, is bolted to the top of one of the 5 stands with the bolt, washers and wing nut supplied. (For Weighted Stands, the microphone should be bolted to the stand so that the foot pedal faces away from the shooter).

Set the angle of the microphone such that it will direct the microphone opening toward an average shooters head height, at approximately 3ft away. Each microphone is connected to the main control box with a microphone cable.

When connecting the microphone cable to the microphone, form a relaxed loop in the cable from the plug & cable tie it to the stand to prevent excessive strain on the microphone socket, using the cable ties provided.

Microphone Stands

Each of the 5 stands supplied is designed to be pushed into the ground, using the foot peg provided.

Weighted Stands for hardstandings (optional) are made to be mounted to a weight plate. Using the assembly kit provided, bolt each stand to each weight plate as shown in the diagram below.

Each stand has integral cable tidy brackets for the easy storage of the unused microphone cabling.

Microphone Cables

Each 25ft long microphone cables can be identified by the 2 pin plugs fitted to the ends & are connected to the rear of the microphones & then onto one of the microphone ports on the main control box.

To reduce strain on the microphone socket, when connecting to the microphone, leave some slack & cable tie the cable to the stand.

Power Supply Unit / Trap Release

12v versions are supplied with standard black & red battery crocodile clips (red for the + terminal and black for the – terminal) & are connected to a 12v battery such as a car or leisure type. When connecting always observe the polarity or damage may occur to the system.

The 240v version is supplied with a 3 pin grounded plug for connection to a mains 240v grounded power supply.

The power supply / release box should be located in the trap house and is connected to the control box via the 3-pin, main control cable.

The trap connection cabling is made to be a direct replacement for the manual button release cable. For safety reasons it is recommended that the connection of this cable, to the trap, be made by using the trap manufacturer recommended plug. Due to the large variety of plugs used by trap manufacturers BRB Systems do not supply this part with the purchase of a voice release system. The appropriate plug that will fit your trap will be available from the trap manufacturer.

Main Control Box

The main control box has 7 connections & is connected to the 5 x microphones with the 2 pin microphone cables, the PSU / release box with the 3 pin main control cable & the manual release button box via its 4 pin plug.

The enclosure is IP65 rated as 'splash proof', but should not be immersed in water. As with any electronic equipment it is recommended that this unit be treated with respect & always kept dry.

Installation of the control box into an optional control box cover, will keep the control box off the ground, out of the rain & direct sun. It will also offer a measure of protection against mechanical damage from stray shots.

Main Control Cable

The 60ft long main control cable connects between the main control box & the power supply Unit / trap release box & can be identified by the 3 pin plug on each end.

Manual Release Button Box

The button box connects via its 25ft long cable to the main control box & is connected to the 4 pin socket.

The button box has a push button for manual target release and a latching push button, with an integral LED to switch the system power ON and OFF as well as to indicate the system status.

No Ox Anti Corrosion Compound

Each Trap Voice Release System comes with no-ox compound applied to the plug & socket connections of the entire system

It is recommended that periodically a thin coating of the compound provided be applied to the plug & socket connections to ensure good contact connection & trouble free use of the system.

Setting Up

To facilitate ease of installation, the Voice Release System is manufactured in such a way that if the plug fits the socket, then the connection is correct.

Install the system components as detailed in the diagram above.

1. Place the main control box in front of No.3 (middle) shooting position.
2. Set each of the 5 microphones (with stands) in their respective shooting positions, with the foot pedal facing away from the shooter. A distance of approximately **3ft between the shooter & the microphone** is ideal. The microphone can be offset to the left or right or be placed directly in front of the shooter without any noticeable effect on operation. The microphones can be permanently mounted inside covered stands if a distance of 3ft to the shooter can be attained.
3. Connect the 5 x microphone cables between the microphones and the main control box, by laying the cables along the ground, taking care to avoid creating a tripping hazard.
4. Connect the button box to the main control box & lay the cable along the ground to a desired referee position behind the shooters. Ensure the power switch is in the off position.
5. Connect the power supply / trap release box to the main control unit with the main control cable.
6. After checking that no work is being carried out to the trap, connect the Voice Release System to its power source.

The VRS-102 is now fully assembled & is ready for use.

Section D

Operation

Overview

This section of the manual describes the base functionality of the equipment. When possible, the reader is referred to the documents supplied with other 3rd party Products & Equipment. The reader should always familiarise themselves with 3rd party operator manuals before using this equipment.

Options available may be extensive & to simplify the presentation of information, this documentation may contain references to equipment options not included in the final configuration.



WARNING! Allow only personnel with appropriate training & experience to use this equipment. The use of untrained or inexperienced personnel to operate this equipment can result in injury or death and damage to the equipment &/or property.

Power Up & Use

To There are no settings or adjustments that can, or need to, be made to the system by the user. Switch the ON / OFF push button (on the button box) to the ON position. The indicator LED on the button box should light up Blue to indicate that the system is ready for use.

A target can now be released by the shooter upon his call. With the microphones installed approximately 3ft from the shooter, the shooter should be able to call for a target in the same way as he would if the trap was being operated by a person. There is no need to turn and call toward the microphone or call excessively loudly.

When a call is detected by the system , the indicator light on the button box will extinguish and a target will be released. Once a call is detected the system will not operate again for 2 seconds, in order to allow the trap time to reload. When ready to accept another call the indicator will light.

To avoid the referee releasing false targets the referee position with the button box should be located approximately 10ft behind the shooters. Should the referee have a particularly loud or soft voice then the distance should be adjusted accordingly.

The Trap Voice Release System has integral filtering to eliminate background noise etc. However all 5 microphones are operational when the system is switched on. Therefore the referee must make it known to the shooters that in the same way as with a manual release system there shouldn't be unnecessary talking on the line.

To manually release a target the referee can operate the trap by pressing the push button on the button box. When the push button is pressed the indicator on the button box is extinguished & the target is released simultaneously.

Note: The push button release will operate even with the system power switched off.

To avoid accidental release of targets when the system is not in use a 2 minute safety shut down is built into the system. When the system shuts down in this way the light on the button box will flash. To return the system to operational status simply switch the ON / OFF switch OFF and then ON (the indicator will light continuously when ready) .

Section E

Maintenance

Overview

Read the information in this section thoroughly before using the equipment. This section contains recommendations and practices applicable to the safe installation, operation and maintenance (hereafter referred to as 'use') of the product described in this document (hereafter referred to as 'equipment' or 'machine'). Additional safety information may be contained in other sections of this document.



WARNING! Failure to follow the safety messages, recommendations and hazard avoidance procedures provided in this document can result in personal injury, including death, damage to equipment and/or property.

General Advice

The rugged manufacture of the Trap Voice Release System should ensure many years of trouble free use if it is not abused & given simple maintenance. As with any electronic equipment, the system should be treated with respect.

Avoid moving any component of the system by pulling it by the cabling.

Moisture

Do not allow any component to be immersed in water. Due to the trap house often being subterranean and water logged keep the power supply / trap release box off the floor.

The button box can be protected by simply covering it with a plastic bag and securing it with a rubber band.

The main control unit can easily be protected by placing it inside the optional control box cover.

Placing thin plastic bags over the microphones, secured with rubber bands protects them from water & appears to have no noticeable effect on operation.

Electrical Connections

Each Trap Voice Release System comes with no-ox compound applied to the plug and socket connections of the entire system.

It is recommended that periodically a thin coating of the compound provided be applied to the plug and socket connections to ensure good electrical contact.

Regularly inspect the power cord from the power source to the power supply / relay box for wear or damage. If any wear or damage is found, replace immediately.

Removing Covers

There are no settings or adjustments that can be made to the system by the user. Should difficulty be found with the system operation do not remove any of the system covers. This will void the system warranty and may result in an electric shock hazard.

Servicing

Refer servicing to BRB Systems , there are no user serviceable parts contained within this equipment.

This equipment should be serviced annually.

Spare Parts

A general spares list is included within this manual, this should be examined to ensure all items are readily available in the event of a problem arising.

Some items may be sourced locally, or sourced within a relatively short time frame and therefore do not need to be carried on site. Some parts are manufactured to order and have longer lead times.

Due regard must be given to the availability of parts, out of normal working hours and during holiday periods.

Cleaning

The equipment must be kept clean, dry & free from a build up of dust.

The enclosures & other surfaces should be cleaned with a proprietary antistatic foam type office equipment cleaning fluid. This type of cleaner should not damage plastic surfaces.

Maintenance Schedule

The following schedule is for guidance only, thorough servicing and checking of the equipment is recommended to be carried out on a regular basis, according to the level of use & age.

Description	Daily	Weekly	Monthly
Check Connectors are tightly screwed in	X		
Apply No-ox to connectors			X
Check Trap Connections		X	

Additional Notes:

Section F

Warranty

Limited Warranty

This BRB Systems product, supplied in the original packaging to the original purchaser, is warranted by BRB Systems against manufacturing defects in materials and workmanship for a limited warranty period of: One (1) Year Parts and Labour.

This limited warranty begins on the original date of purchase and is valid only on products purchased and used in the UK.

This warranty will terminate automatically prior to its stated expiration if the original purchaser sells or transfers the product to any other party.

BRB Systems will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of BRB Systems and must be returned to BRB Systems. Replacement parts and products assume the remaining original warranty or ninety (90) days, whichever is longer.

This limited warranty covers defects in materials and workmanship encountered in normal use of this product and shall not apply to defects or injuries caused by the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; product alterations not authorized by BRB Systems; cosmetic damage or exterior finish; accidents; neglect; fire; water damage; vermin or insect infestation; lightning or other acts of nature; use of products, equipment systems, utilities, services, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by BRB Systems which damage this product or result in service problems; incorrect electrical line voltage; fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the Instruction Manual.

BRB systems does not warrant uninterrupted or error-free operation of the product.

BRB Systems shall not be liable for loss of revenue or profits, failure to realise savings or other benefits, or any other special, incidental or consequential damages caused by the use, misuse or inability to use this product, regardless of the legal theory on which the claim is based, even if BRB Systems has been advised of the possibility of such damages. Nor shall recovery of any kind against BRB Systems be greater in amount than the purchase price of the product sold by BRB Systems.

Without limiting the foregoing, the purchaser assumes all risk and liability for loss, damage or injury to purchaser and purchaser's property and of others and their property arising out of the use, misuse or inability to use this product sold by BRB Systems not caused directly by the negligence of BRB Systems.

To receive warranty service contact BRB Systems for problem determination and service procedure. If it is determined that the product requires warranty service, ship the product, in its original packaging or its equivalent, together with proof of purchase, prepaid insured to BRB Systems.

Products repaired or replaced under warranty will be returned to you, within a reasonable time, freight paid.

To obtain warranty service contact BRB Systems at:

EMAIL	sales@brbsystems.com
WEB	www.brbsystems.com
TEL	(44) 01531 888033

Section X

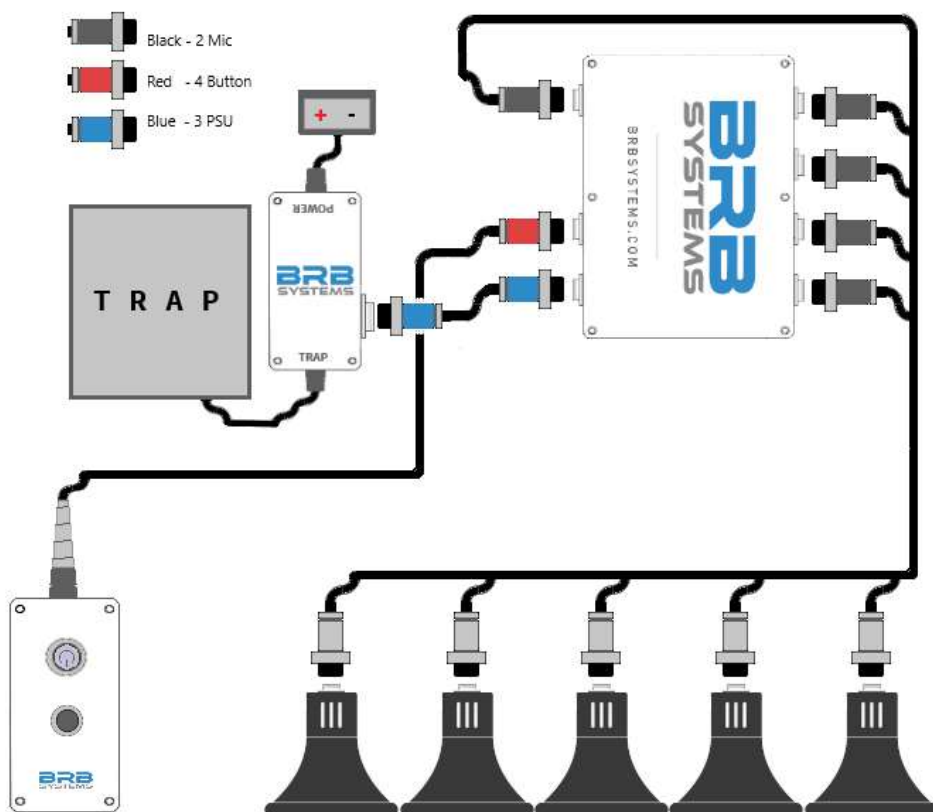
Certificates & Reports

Quick Setup

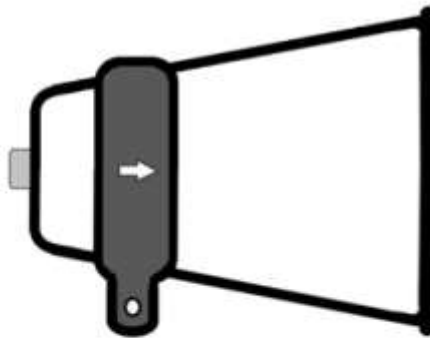


WARNING: The push button release will operate even with the system power switched off.

After checking that no work is being carried out to the trap, assemble the system parts in line with the diagram, below:



Switch the ON / OFF push button (on the button box) to the ON position. The indicator LED on the button box should light up Blue to indicate that the system is ready for use.



IMPORTANT

Grey microphone brackets are directional. The indicator arrow on the bracket must face the shooter. Do not overtighten.