

BRB Systems USA Co.

Instruction Manual – WS-101

Wireless Skeet Voice Release System – Upgrade Kit

IMPORTANT: Read and understand this manual before assembling, installing or using this system. Improper use of this system can cause serious injury.

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(1) Safety Information

CAUTION:

This system is powered by electricity. To reduce the risk of electric shock, do not tamper with any part of the apparatus. There are no user serviceable parts of this equipment. Refer servicing to BRB Systems USA Co.

Make certain that any person assembling or installing this system has read and fully understood this Instruction Manual. It is your guide to safe and proper operation of this system.

- WS-TRX-101 Button Controllers are 6V dc, powered by 4 AA batteries. AA batteries are small, but powerful and must be treated with respect. Never short the ends of the battery together. Never burn the battery, even when you think it is fully discharged.
- RX-101 Receivers sold as 12V, are to be powered with 12V dc power sources only.
The 12V dc power sources that may be used with the receivers are; 12V lead acid batteries, 12V regulated ac to dc power supplies and 12V dc power directly from the trap.
12V car batteries are capable of supplying large amounts of current and care must be taken not to connect the + (red) and – (black) terminals together.
- RX-101 Receivers sold as 120V, are to be powered with 120V ac power sources only. Do not defeat the safety purpose of the polarized, or grounding type, plug fitted to this apparatus. If the provided plug does not fit into your outlet consult a qualified electrician. Exterior 120V outlets should be GFCI protected for your safety. If the outlet is not GFCI protected then contact a qualified electrician for rectification.
- Protect any power cord from being walked on, pinched or damaged in any way.
- Disconnect this apparatus from its power source during lightning storms.
- Use only the attachment parts/accessories supplied by BRB Systems USA Co.
- Do not allow liquid entry into the system components. System components are water resistant, not waterproof.
- Ensure that the traps are disconnected from their power sources and unloaded before connection of the Receiver, Voice Boxes, or the setup of the

Button Controller. Failure to do so could result in the unexpected operation of the trap, causing serious injury.

- Ensure that the trap is disconnected from its power source and unloaded and that it is completely disconnected from the receiver 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.
- Never charge Voice Box units in any position other than a fully upright.

(2) Assembly

The BRB Wireless Skeet Voice Release System is available with between one and eight stands and voice boxes, with one or two receivers, depending upon the customer requirements.

A single stand version of a BRB Wireless Skeet Voice Release System is supplied with the following parts:

- 1 x WS-VB-101 Voice Box
- 1 x Voice Box Charger
- 1 x WS-TRX-101 Button Controller
- 1 x RX-101 Receiver
- 1 x Button Controller Bracket

WS-VB-101 Voice Box

Each Voice Box is mounted to one of your stands.

Remove the wing nuts, lock washers, flat washers and grey plastic spacers from the Voice Box studs. Fit one grey plastic spacer onto the shaft of your stand against the top of the lower cable hook. Fit the second grey plastic spacer above the first, at the distance between the Voice Box studs.

Slide the studs through the 4 holes in the grey plastic spacers. Refit the flat washers, lock washers and wing nuts. Screw hand tight.

Screw the 2 pin plug into the microphone socket. Zip tie the cable to the shaft of the stand in a way that makes a large loose cable bend at the microphone, so that if the microphone is turned downwards it does not pull the plug connection.

(3) Installation

Using the cabling as supplied, an RX-101 receiver should be mounted vertically and within 10ft of the power and release connections of the trap. To lengthen the power/release cabling use a connector that is rated for outdoor use and meets current electrical standards. Ideally the Receiver antenna should have an unobstructed line of sight to the button controller and voice box antennae.

To make the receiver connections at your trap, use the appropriate plug for the trap. These parts can be purchased from your trap manufacturer or dealer. Release plug and socket wiring diagrams for your trap can be obtained from your trap manufacturer or dealer.

When using a receiver to control ISSF lights use the connections below listed as 'Trap release connections'.

Receiver Connections

Select the number of receivers and power type from the list below.

12Vdc Power From Trap – 2 x Receivers (1 x HI House + 1 x LO House)

10ft 4 core cable = Receiver power and trap release connections.

Power 12V +ve = Red

Power 12V -ve = Black

Trap release connections= Green and White. Wire color orientation is not important.

120Vac Wall Outlet – 2 x Receivers (1 x HI house + 1 x LO house)

10ft 120V ac power cord = Receiver power.

Plug into GFCI protected 120V outlet.

10ft 2 core cable = trap release connections.

Wire color orientation is not important.

12Vdc Power From Trap – 1 x 2 Trap Receiver (controls HI & LO houses)

10ft 2 core cable = Receiver power.

Power 12V +ve = Red

Power 12V -ve = Black

10ft 4 core cable = trap release connections

Red and Black = relay 1 trap release connections.

White and Green = relay 2 trap release connections.

Wire color orientation is not important.

120Vac Wall Outlet – 1 x 2 Trap Receiver (controls HI & LO houses)

10ft 120V ac power cord = Receiver power.

Plug into GFCI protected 120V outlet.

10ft 4 core cable = trap release connections.

Red and Black = relay 1 trap release connections.

White and Green = relay 2 trap release connections.

Wire color orientation is not important .

(4) User Options & Set Up

This equipment has been designed for ultimate versatility, which is achieved by offering a large number of user options. Each user option needs to be set. Unless specified otherwise when ordered, each piece of this equipment will be preset to factory settings before shipping. For many customers no changes will be necessary. Should you need to make any changes from the factory settings a comprehensive description of how to do so follows.

FACTORY SETTINGS

Radio frequency (CHN) = Club unique

Radio encoding (CODE) = Club unique

Voice Release LED mode (LISTEN VOICE) = On

Rounds LED mode (LISTEN ROUNDS) = On

Delay before target release (DELAY) = None

Must use with counter (CTR) = No

Discipline used in Rounds (SRT) = NSSA Skeet

Skeet Rounds advance type (SRB) = Button advance

Receiver relay closed time (REL1 CLOSE & REL2 CLOSE) = 0.25 seconds

Equipment use type (RX FUNC) = Wireless Skeet Voice Release System

Inactivity power down (SLEEP) = 10 minutes

Unwanted noise rejection (NOISE REJECT) = Minimum

Microphone sensitivity (MIC) = Center of range

If you require settings any different than the factory settings, these can be changed by following the instructions using the tables and descriptions that follow.

(4.1) WS-TRX-101 Button Controller Set Up

Button Controller Dipswitch Settings

Switch numbers are printed on the body of the dipswitch.

UPPER

1	2	3	4	5	6	7	8	
CODE	CHN	CHN	CHN	CHN	CHN	CHN	CHN	CHN sets receiver ID frequency - TRX, RX &VB must all match

MIDDLE

1	2	3	4	5	6	7	8	
CODE	CODE	CODE	CODE	LISTEN VOICE	LISTEN ROUND	DELAY	DELAY	CODE sets receiver ID encoding – TRX, RX &VB must all match LISTEN sets real time TRX target status LED's ON or OFF DELAY sets the target release delay time

LOWER

1	2	3	4	5	6	7	8	
CTR	CTR	CTR	CTR	SRB	OFF	SRT	SRT	CTR switches same as Upper switches 1,2,3 & 4 = Use without counter Any CTR switch different from Upper 1,2,3 & 4 = Only with counter SRB sets auto. or semi-auto. station advance - for use in Rounds SRT sets the Skeet discipline - for use in Rounds

(4.2) RX-101 Receiver Set Up

Receiver Dipswitch Settings

Switch numbers are printed on the body of the dipswitch.

SW3

1	2	3	4	5	6	7	8	
CODE	CHN	CHN	CHN	CHN	CHN	CHN	CHN	CHN sets receiver ID frequency - TRX, RX &VB must all match

SW2

1	2	3	4	5	6	7	8	
CODE	CODE	CODE	CODE	REL1 FUNC	REL1 FUNC	REL2 FUNC	REL2 FUNC	CODE sets receiver ID encoding – TRX, RX &VB must all match REL FUNC sets each relay for HI-house, LO-house or ISSF lights

SW1

1	2	3	4	5	6	7	8	
REL1 CLOSE	REL2 CLOSE	OFF	OFF	OFF	OFF	RX FUNC	RX FUNC	REL1 CLOSE and REL2 CLOSE set relay contact closed times RX FUNC sets which equipment model a receiver is used with – Wireless Trap, Wireless Skeet or TX-101

(4.3) WT-VB-101 Voice Box Set Up

Voice Box Dipswitch Settings

Power off the Voice Box to change dipswitch settings, or the changes will not be recognized by the equipment.

SW1

1	2	3	4	5	6	7	8	
CODE	CHN	CHN	CHN	CHN	CHN	CHN	CHN	CHN sets receiver ID frequency - TRX, RX &VB must all match

SW2

1	2	3	4	5	6	7	8	
CODE	CODE	CODE	CODE	MIC	MIC	MIC	MIC	CODE sets receiver ID encoding – TRX, RX &VB must all match MIC sets the microphone sensitivity

SW3

1	2	3	4	5	6	7	8	
SLEEP	SLEEP	SLEEP	NOISE REJECT	NOISE REJECT	OFF	OFF	OFF	SLEEP sets the time until power down after inactivity NOISE REJECT sets the level of noise rejection

CHN Signal Frequency – Set in Button Controller, Receiver & Voice Box

The seven CHN dipswitches (switches 2-8 on the Upper dipswitch) are the primary method of system identification. These dipswitches must match on the Receiver, Button Controller and Voice Box for the system to operate. They set the frequency of the transmission signal and give 128 possible frequency variations. Using these settings for identification eliminates cross calls between adjacent fields because each field can have a different working frequency.

CODE Signal Encoding – Set in Button Controller, Receiver & Voice Box

The five CODE dipswitches (switch 1 on the 1st dipswitch & switches 1, 2, 3 & 4 of the 2nd dipswitch) are the secondary method of system identification. These dipswitches must match on the Receiver, Button Controller and Voice Box for the system to operate. They set the signal encoding, do not affect the transmission frequency and expand the possible number of individual system identities to 4096.

LISTEN LED Operation – Set in Button Controller

The two LISTEN dipswitches (5 & 6 on the Middle dipswitch) switch on or off the two types of Listen mode.

- LISTEN VOICE – Switches on Listen in Voice Target Release
- LISTEN ROUNDS – Switches on Listen in Rounds Target Release

With Listen on, the Button Controller LED’s will display the next target to be released and the target after next to be released, in real time. As a target is released the LED’s will update to always show the next 2 targets.

With Listen off, when the target selections are made, the Button Controller LED’s will light to show the next two targets to be released for a few seconds only before extinguishing.

Listen mode requires the Button Controller to eavesdrop on the system radio traffic, which uses a significant amount of Button Controller battery power. Out of LISTEN mode the Button Controller battery life is over 1,000,000 button presses.

In Listen mode the battery life is reduced to approx. 50,000 button presses in Voice Release, or 50 hours in Rounds.

The possible Listen dipswitch settings are:

MIDDLE

5	Button Controller Voice Release LED Mode
OFF	Button Controller Listen Voice Release mode OFF
ON	Button Controller Listen mode ON

MIDDLE

6	Button Controller Rounds LED Mode
OFF	Button Controller Listen Rounds mode OFF
ON	Button Controller Listen Rounds mode ON

DELAY Target Release Delay Time – Set in Button Controller

The two DELAY dipswitches (7 & 8 on the Middle dipswitch) are used to set any required delay between the shooters call and the target release.

The possible Delay dipswitch settings are:

MIDDLE

7	8	Delay Type
OFF	OFF	No delay
OFF	ON	1/6 th second delay
ON	OFF	Random 0-1.4 seconds delay
ON	ON	Random 0-3 seconds delay

CTR Counter Use Dipswitches – Set in Button Controller

The four CTR dipswitches (1, 2, 3 & 4 on the Lower dipswitch) allow the club to set the equipment for use with or without a counter.

To use the equipment without a counter, switches 1, 2, 3 & 4 of the lower dipswitch must match those of switches 1, 2, 3 & 4 of the upper dipswitch. If there is any difference between these, the equipment will only operate with a counter. This feature allows the club to easily alternate between counter and non-counter use by only changing dipswitches in the Button Controller.

SRT Skeet Rounds Type – Set in Button Controller

The two SRT dipswitches (7 & 8 on the Lower dipswitches) set the Skeet discipline when the equipment is used in Rounds mode.

Rounds mode allows the equipment to voice release an entire sequence of targets in a round, without the shooter needing to button select the targets.

Having Rounds mode set up does not force the user to use Rounds. Single targets, Doubles, HI-LO or LO-HI sequences can also be selected.

The possible SRT dipswitch settings are:

LOWER

7	8	Skeet Rounds Type
OFF	OFF	NONE – Do not allow Skeet Rounds
OFF	ON	ISSF – International Skeet
ON	OFF	NSSA – American Skeet
ON	ON	CPSA – English Skeet

SRB Skeet Rounds Button – Set in Button Controller

The SRB dipswitch (5 on the Lower dipswitch) sets the type of advancement between stations when using Rounds mode.

Voice Release Rounds sequencing has two choices of advancement between stations:

- SRB off – For single shooter use.
No button press is necessary to advance station. Set this way the equipment automatically advances to the next station target sequence upon completion of the last and opens the microphone.
- SRB on – For single or multiple shooter use.
A button press is needed to advance station. Set this way the equipment advances to the next station target sequence and opens the microphone when the advance button is pressed.

The possible SRB dipswitch settings are:

LOWER

5	Skeet Rounds Button
OFF	Skeet Round Button OFF – Automatic station advancement
ON	Skeet Round Button ON – Button press station advancement

REL1 FUNC & REL2 FUNC Relay Function – Set in Receiver

The four dipswitches, REL1 FUNC (5 & 6 on SW2) & REL2 FUNC (7 & 8 on SW2) are used to set which trap (or light – ISSF) each of the two receiver relays operates.

A standard Receiver is supplied with only Relay1 fitted. Relay2 is not fitted unless requested by the customer when ordering. Unless fitted, no setting is required for Relay 2.

If using a single relay receiver, or if using only 1 relay of a 2 relay receiver, the dipswitches for the unused relay must be the same as for the used relay.

The possible dipswitch settings for REL1 are:

SW2

5	6	Relay 1 Function
OFF	OFF	LO-house trap release
ON	OFF	HI-house trap release
OFF	ON	LO-house light control
ON	ON	HI-house light control

The possible dipswitch settings for REL2 are:

SW2

7	8	Relay 2 Function
OFF	OFF	LO-house trap release
ON	OFF	HI-house trap release
OFF	ON	LO-house light control
ON	ON	HI-house light control

REL1 CLOSE & REL2 CLOSE Relay Closed Time – Set in Receiver

The two dipswitches, REL1 CLOSE (1 on SW1) & REL2 CLOSE (2 on SW1) are used to set the relay closed times of each of the two receiver relays.

Some traps require a longer receiver relay closed time than others. If set too short the trap may start to move, but not release a target. If set too long a fast re-cocking trap may release more than one target for one relay closure.

The possible dipswitch settings for REL1 CLOSE are:

SW1

1	LO-house Relay Closed Times
OFF	Sets LO-house relay closed time to 0.25 sec.
ON	Sets LO-house relay closed time to 0.80 sec.

The possible dipswitch settings for REL2 CLOSE are:

SW1

2	HI-house Relay Closed Times
OFF	Sets HI-house relay closed time to 0.25 sec.
ON	Sets HI-house relay closed time to 0.80 sec.

RX FUNC Equipment Use Type – Set in Receiver

The two RX FUNC dipswitches (7 & 8 on SW1) of a receiver, set the model of BRB equipment the receiver is to be used with.

The possible dipswitch settings are:

SW1

7	8	Equipment Model
OFF	OFF	TX-101 Wireless Button Release
ON	OFF	Wireless Trap VRS
ON	ON	Wireless Skeet VRS

SLEEP Inactivity Power Off Time – Set in Voice Box

The three SLEEP dipswitches (1, 2 & 3 on SW3) are used to set the time to automatically power off a Voice Box, after the last shooters call is heard.

The possible dipswitch settings are:

SW3

1	2	3	Minutes
OFF	OFF	OFF	10
OFF	OFF	ON	15
OFF	ON	OFF	20
OFF	ON	ON	30
ON	OFF	OFF	45
ON	OFF	ON	60
ON	ON	OFF	90
ON	ON	ON	120

NOISE REJECT Noise Rejection Dipswitches – Set in Voice Box

The two NOISE REJECT dipswitches (4 & 5 on SW3) are used to set the four possible noise rejection settings. These settings are used when problems such as gun closing, echo or gun shots from adjacent fields cause unwanted release of targets. The recommended noise rejection setting is the lowest that can be set to remove a noise problem.

SW3

4	5	Noise Rejection Level
OFF	OFF	Level 1 - Minimum noise rejection
OFF	ON	Level 2
ON	OFF	Level 3
ON	ON	Level 4 - Maximum noise rejection

MIC Microphone Sensitivity Dipswitches – Set in Voice Box

The four MIC dipswitches (5, 6, 7 & 8 on SW2) are used to set the microphone sensitivity. The sensitivity can be changed up or down using the sixteen possible settings in the chart below. The range of possible sensitivity adjustment is high enough that it may be possible to use microphones that were previously discarded as 'deaf' with this equipment.

The possible dipswitch settings are:

SW2

5	6	7	8	Sensitivity
OFF	OFF	OFF	OFF	Least sensitive
OFF	OFF	OFF	ON	
OFF	OFF	ON	OFF	
OFF	OFF	ON	ON	
OFF	ON	OFF	OFF	
OFF	ON	OFF	ON	
OFF	ON	ON	OFF	
OFF	ON	ON	ON	Standard preset sensitivity
ON	OFF	OFF	OFF	
ON	OFF	OFF	ON	
ON	OFF	ON	OFF	
ON	OFF	ON	ON	
ON	ON	OFF	OFF	
ON	ON	OFF	ON	
ON	ON	ON	OFF	
ON	ON	ON	ON	Most sensitive

(5) Operation

(5.1) RX-101 Receiver Operation

When connected to its power source, the green 'PWR' LED will light on the receiver and will stay lit as long as a good power level is maintained.

If the power supply voltage drops below 10.5V the 'PWR' LED will flash continuously to signify low power.

When the receiver relay closes the corresponding relay LED will light for the time that the relay is closed. When the relay opens, the LED will flash rapidly during the trap reload time.

Radio Signal Strength Indication (RSSI)

Optimum location of the receiver can be ensured with the help of the RSSI feature of this equipment. When a message is received from the Button Controller or Voice Box, the yellow 'SIG' LED will flash to show the strength of signal received.

1 flash = weakest signal that can release a target.

5 flashes = strongest signal.

Note – If a strong signal is received, but its message is corrupted (by radio frequency interference etc.) the LED will not flash.

Note - To avoid confusion between signals, if a signal is received within 1 second of completion of the last sequence of flashes its strength will not be displayed on the 'SIG' LED.

(5.2) WS-VB-101 Voice Box Operation

There are 2 ways to power on a Voice Box, depending upon whether you want to release a target selection once (non-repeat), or continuously release a target selection (repeat).

Non-Repeat of a Target or Sequence

When a Voice Box is powered on in Non-Repeat mode, it will release a target or sequence once only. When that target or sequence is released another button selection must be made to release another target.

To power on a Voice Box, press and release the power button on the top of the unit. When the power button is pressed, an indicator LED will illuminate around the power on button and an audible 'Beep' will sound. The LED will flash to show that the unit is powered on and to show that the microphone is closed.

When the Voice Box has been powered on, the referee can select a target. When a target has been selected the microphone will open. When the microphone opens, the Voice Box LED will light continuously. A target can now be released by the shooters call.

Repeat a Target or Sequence – For single or multiple shooters.

When a Voice Box is powered on in Repeat mode, any selected HI, LO, DOUBLE or target sequence will be repeated indefinitely until a new instruction is given. Put a Voice Box into Repeat if a single shooter wants to repeat targets at a station, or for multiple shooters so that they do not need to button select the same targets for each shooter.

To power on a Voice Box in Repeat, press and hold the power button for 3 seconds. When the power button is pressed, an indicator LED will illuminate around the power button and a 'beep' will sound. After 3 seconds a second

'beep' will sound. The power LED will flash to show that the microphone is closed.

When the Voice Box has been powered on, the referee can select a target. When a target has been selected the microphone will open. When the microphone opens the Voice Box LED will fade on and off to show that unit is in Repeat. A target can now be released by the shooters call.

Charge Level Indication

When powered on, the color of the LED indicates the unit battery charge level.

- Green = Full charge - 50% charge.
- Amber = 50% - 15% charge.
- Rapid Flashing Amber = 15% charge. The Voice Box enters Battery Protection Mode. This starts an automatic 10 minute shutoff timer. After 10 minutes the LED will extinguish, an audible 'beep' will sound and the unit will power off.

If low battery charge level has caused a Voice Box to automatically power off, it can be powered with its charger for as long as is necessary.

Calling For a Target

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

When a call has been detected, the microphone will close and the indicator LED will change from lit continuously to flashing, to show that it has closed. The LED will flash until the microphone is opened again either by a new target selection being made, or because Repeat mode is being used, or automatically as part of a sequence. When ready to accept another call the indicator LED will light continuously.

Powering Off a Voice Box

When shooting is finished a Voice Box can be powered off by pressing the power button. The indicator LED will extinguish and an audible 'Beep-beep' will sound.

If any Voice Box in the system does not detect a call for the duration of the set Sleep Inactivity Power Off Time it will automatically power off.

When multiple Voice Boxes are being used, do not power off the Voice box on the station that has just been completed. Powering-on a new Voice Box will automatically power-off the last and transfer any required system status data to the new station.

(5.3) WS-TRX-101 Button Controller Operation

The Button Controller sets the type of targets to be released. It has no power on switch. Simply press any button and the unit will react immediately.

Targets can be released in 3 ways:

- Manual Release
- Voice Release
- Rounds

All 3 target release methods are available to the shooter without changing dipswitches.

Manual Target Release

HI, LO or DOUBLE targets can be released using the Button Controller without need for a shooters call. To release a target manually it is not necessary to have a Voice Box powered on.

The LED beside the red M/VRS button shows if the Button Controller is in Manual or Voice Release:

LED off = Voice Release

LED on = Manual Release

The default state for a Button Controller is Voice Release mode. To alternate between Voice Release and Manual Release, press the red M/VRS button for 2.5 seconds until a 'beep' is heard and the LED changes state.

When the Button Controller has been set to Manual from Voice Release the M/VRS LED will light to show that the unit is in Manual. Targets can now be released manually by pressing the HI, LO or DOUBLE buttons.

If no target is selected for 5 minutes the unit will exit Manual and sleep.

Voice Target Release Operation

With the Voice Box powered on and the Button Controller in VRS mode, the referee can select the targets to be voice released.

The HI, LO and DOUBLE buttons select the target(s) to be released. When the target buttons are pressed their corresponding LED's will light and the Voice Box microphone will open to listen for the shooters call.

Flashing LED = Next target to be released

Continuous LED = Target after next to be released.

Release of SINGLES or DOUBLES

When the HI, LO or DOUBLE buttons are pressed the corresponding Button Controller LED will flash and the Voice Box microphone opens. A target can now be released by the shooters call.

If a target selection is made but not wanted, simply press the red CANCEL button. Alternatively, making a new selection will override an unwanted selection. If a new selection is made to override an unwanted single HI or single LO target, a small amount of time must be left to ensure that the new selection is not seen as the 2nd target of a sequence.

With a Voice Box in Repeat mode, when the target is shot at, the microphone will reopen ready for the next call. The next call will release the same target as the last. This will repeat until a different target is selected or the red M/VRS CANCEL button is pressed.

HI/LO & LO/HI SEQUENCES

A HI/LO sequence is selected by pressing the HI button followed by the LO. A LO/HI sequence is selected by pressing the LO button followed by the HI.

When a button sequence is selected the corresponding Button Controller LED's will show the target sequence and the Voice Box microphone will open. The first target can now be released by the shooters call. When a call has released the 1st target and a shot is taken, the microphone will automatically reopen for the release call of the 2nd target.

If a target selection is made but not wanted, simply press the red CANCEL button or make a new selection which will override it.

With a Voice Box in Repeat mode, when the HI/LO or LO/HI sequence is completed the microphone will reopen. The next call will release the same target sequence as the last. This will repeat until a different single target or sequence is selected, or the CANCEL button is pressed.

If no call is detected within 30 seconds of the microphone opening, the target sequence is cancelled and the unit resets ready for another selection to be made.

If no gunshot is heard within 5 seconds of a target being released the unit will reset ready for another selection to be made.

ROUNDS

Shooting in Rounds allows a partial or entire Skeet round to be shot without need to select any targets. The system is preprogrammed to know which target sequence to release at each station.

Rounds type choices are:

- NSSA
- CPSA
- ISSF
- No Rounds allowed

Rounds station advancement choices are:

- Skeet Rounds Button (SRB)– On
- Skeet Rounds Button (SRB) – Off

The Rounds type and advancement type are both dipswitch selected during equipment Set Up.

Entering & Exiting Rounds

To enter Rounds mode, power on the Voice Box.

Press the red M/VRS CANCEL and the DOUBLE button. The four green LED's will revolve in a counter clockwise direction and six 'Beep's will sound, to show that you are entering Rounds.

If no Voice Box is powered on, the Button Controller will not react when the Rounds entry buttons are pressed.

To exit Rounds at any time, press the red M/VRS CANCEL button and the DOUBLE button. The four green LED's will alternate between the two halves of an 'X' and six 'Beep's will sound to show that you are exiting.

Shooting in Rounds with SRB On – Semi-automatic Station Advance

For use by a single or multiple shooters.

Using the target sequence for NSSA as an example, starting at Station 1 (HI, LO, DOUBLE), the system operation is as follows:

Entering Rounds the microphone is closed.

Pressing the red M/VRS CANCEL button opens the microphone ready for the shooters call.

The shooter calls for the HI target and the target is released.

The HI target is shot at.

The shooter calls for the LO target and the target is released.

The LO target is shot at.

The shooter reloads, calls for the DOUBLE and the targets are released.

The DOUBLE targets are shot at.

The microphone is closed.

The shooters move to Station 2.

Pressing the red M/VRS CANCEL button opens the microphone ready for the shooters call.

Multiple shooters – Power on the Voice Box in Repeat mode. When a shooter has completed the target sequence the microphone will reopen for the next shooter. The next call will begin the same target sequence as the last. This will repeat until the red M/VRS CANCEL button is pressed which closes the microphone and advances the system to the next station. When ready to shoot at the next station, press the M/VRS CANCEL button to re-open the microphone.

At Station 8, when the HI and LO targets have been released and shot at, the programmed round is complete. The microphone will close, the four green LED's will alternate between the two halves of an 'X' and six 'Beep's will sound to show that you are exiting. Pressing the red M/VRS CANCEL button will have no effect. If a shooter has not missed any shots through Station 8, the 25th shot can be selected in the same way as any other option shot, by pressing the HI or LO target of choice.

To begin another round, re-enter Rounds by pressing the red M/VRS Cancel and DOUBLE buttons.

Advancement to the next station can be done at any time, without the previous station being shot. This allows a shooter to shoot at the stations he wants and miss those he does not. Advancement from station to station is made by pressing the red M/VRS CANCEL button twice per station.

- Button press 1 = advance to next station.
- Button press 2 = open microphone.

Using this method a shooter can start at any station in a round.

Shooting in Rounds with SRB Off – Automatic Station Advance

For use by a single shooter only.

Using the target sequence for NSSA as an example, starting at Station 1 (HI, LO, DOUBLE), the system operation is as follows:

Entering Rounds opens the microphone ready for the shooters call.

The shooter calls for the HI target and the target is released.

The HI target is shot at.

The shooter calls for the LO target and the target is released.

The LO target is shot at.

The shooter reloads, calls for the DOUBLE and the targets are released.

The DOUBLE targets are shot at.

The system advances to Station 2 and opens the microphone ready for the shooters call.

Advancement to the next station can be done at any time, without the previous station being shot. This allows a shooter to shoot at the stations he wants and miss those he does not. Advancement from station to station is made by pressing the red M/VRS CANCEL button once per station.

- Button press = advance to next station and open microphone.

Using this method a shooter can start at any station in a round.

Option Birds

During a round a single HI, single LO or DOUBLE can be released at any time simply by pressing the desired target button on the Button Controller. Any combination of HI, LO or DOUBLE can be released, in any order, as many times as required. When no more option buttons are pressed, the round will continue as if no option target(s) was released.

All Rounds Types

If no call is detected within 10 minutes of the microphone opening, the target sequence is cancelled and the unit resets ready for another selection to be made.

If no gunshot is heard within 5 seconds of a target being released the round will proceed as if a gunshot was heard.

If an option target selection is made but not wanted, make a new selection which will override it. Do not press the red M/VRS CANCEL button because this will advance the station.

If a low battery voltage is detected in the Button Controller, the red 'Low Batt' LED lights for 10 seconds each time a button is pressed.

(6) Charging

Only charge a Voice Box with the equipment supplied by BRB Systems USA Co.

Use of any unauthorized chargers may damage the equipment and cause a fire.

Use of unauthorized chargers will invalidate your warranty.

Never charge Voice Box units in any position other than fully upright.

Do not store or charge a Voice Box below 0 degrees F. Extremely cold temperatures will damage the battery and drastically shorten its lifespan.

The simplest way to ensure that a Voice Box unit does not shut off, due to low battery charge level, is to keep each unit fully charged.

When shooting is finished plug each Voice Box into its charger.

When a charger is connected to a Voice Box the power button LED will show the battery charge status by lighting amber and green in proportion to the charge level. As the battery charges, less amber and more green is shown until only the green LED makes a short flash. When only a short green LED flash shows, the unit is fully charged.

The Voice Box circuitry acts as both a battery charger and maintainer.

The Voice Box cannot be overcharged. To prolong battery lifespan it is recommended that each Voice Box be continuously connected to its charger when not in use. The maximum time between Voice Box charges should never be longer than three weeks. Any longer period between charges will reduce the battery capacity and lifespan.

A totally discharged Voice Box should recharge in approximately 7.5 hours.

(7) Maintenance

The rugged manufacturing of this Wireless Voice Release System should ensure many years of trouble free use if it is not abused and given simple maintenance.

- Do not allow any component to be immersed in water.
- Keep the Voice Boxes fully charged.
- Do not leave the equipment outside, in the weather, for indefinite periods of time. Store in a cool dry place.
- Regularly inspect the equipment for wear or damage. If any wear or damage is found seek service from BRB Systems USA Co.

Should difficulty be found with the system operation, do not dismantle any part of the system. This will void the warranty and may result in an electric shock or fire.

Refer servicing to BRB Systems USA Co.

(8) BRB Systems USA Co. - Limited Warranty

This BRB Systems USA Co. product, supplied in the original packaging to the original purchaser, is warranted against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor.

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

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 USA Co. 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 USA Co. and must be returned to BRB Systems USA Co.

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 USA Co.; 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 USA Co. 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 USA Co. does not warrant uninterrupted or error-free operation of the product.

BRB Systems USA Co. shall not be liable for loss of revenue or profits, failure to realize 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 USA Co. has been advised of the possibility of such damages. Nor shall recovery of any kind against BRB Systems USA Co. be greater in amount than the purchase price of the product sold by BRB Systems USA Co. Without limiting the foregoing, the purchaser assumes all risk and liability for loss, damage or injury to purchaser and purchaser's property and to others and their property arising out of the use, misuse or inability to use this product sold by BRB Systems USA Co. not caused directly by the negligence of BRB Systems USA Co.

To receive warranty service contact BRB Systems USA Co. 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 USA Co.

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

To obtain warranty service contact BRB Systems USA Co. at:

brbsystemsusa@yahoo.com

or call: 412 773-2128.