



Advanced Training Systems

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FLEXI-E TARGET SYSTEM OPERATIONS MANUAL

NOTE: Before operating or servicing the FLEXI-E target system, please read the following instructions completely. If you need assistance, please contact us at 651-429-8091 or info@atstargets.com

QUICK START GUIDE

Mounting

Mount the stand to the concrete using 4 concrete anchors. Then, bolt the protective steel “wings” (protective plates) to the steel stand.

OPERATING TIP: Before tightening down the target holder bolts, be sure the target swings freely between the protective steel “wings”.

Unpacking the Unit: Verify that all the parts are included with the target unit. Each box should include the following items: Target Unit mount, target holder with hardware kit, Antenna, Hit Sensor and Manual.

Be sure to save the Antenna and Hit Sensor that is taped to one of the pads. Lift the target unit out of the carton with the wood base still attached. **WARNING:** DO NOT pick up the target unit by its rotating arm or target holder, which may cause serious damage to the arm. ONLY pick up the target by its handle. Once the target has been removed from the carton, the wood base can be removed.

Next connect the main electrical line to the Target Controller with the twist connector on the bottom of the unit.

Mount target to stand with provided standard or quick attach hardware kit.

Assigning Target Number

Before the target can be used a target number must be assigned. The factory default for the target number is zero, which means the target number is unassigned. Before you assign a target number the target will only respond to ALL when using the transmitter. Each target must have a unique target number. If duplicate target numbers exist, one or both targets with the same number will fail to properly communicate their hit scores. Target numbers can range from 1 to 200. We highly recommend starting with 1 and using sequential numbers up to the number of target units you have. This will speed up retrieving hit scores

Put an antenna on the target and the transmitter. Install a 9-volt alkaline battery in the PTX-XXX transmitter if applicable. Otherwise, ensure the PTX-TAB is charged and connected to a tablet via Bluetooth. It should display “TARGET_RUN” on the bottom line of the display. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. With the target’s power switch in the **OFF** position press the **MENU** key on the transmitter. Navigate to communicate by **SERIAL NUMBER**. Enter the **SERIAL NUMBER** and press **ENTER**. The transmitter will detect the target’s serial number and target number. Press **ENTER** to continue. It takes several seconds to download the information from the target. When it is finished, a menu will appear. Press the **UP ARROW** to select “TARGET CONTROL” and press **ENTER**. On this menu select “TARGET #” and use the number keys to enter the desired target number and press **ENTER**. The target number will be changed in the target unit and the information from the target will be downloaded to verify the change. Press **EXIT** as many times as it takes to get to the “TARGET_RUN” display. The target number will remain stored in the unit. Turning the

power switch off or even removing the battery will not erase it. You may want to mark the assigned target number in the space provided on top of the target with a waterproof marker.

Test the target operation

The transmitter display should show “TARGET_RUN” on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. **Check to see that all personnel and obstructions are clear of the target unit.** To test target operation, enter the target number you assigned into the transmitter and press **FOE**. The target arm should move to the up position. Press **EDGE** and it should move to the edge position. **WARNING: Turn target power switch OFF before mounting the target holder to the arm, or serious injury may result.**

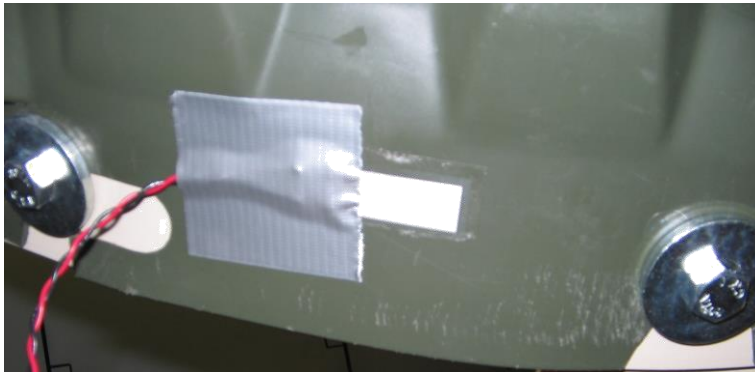
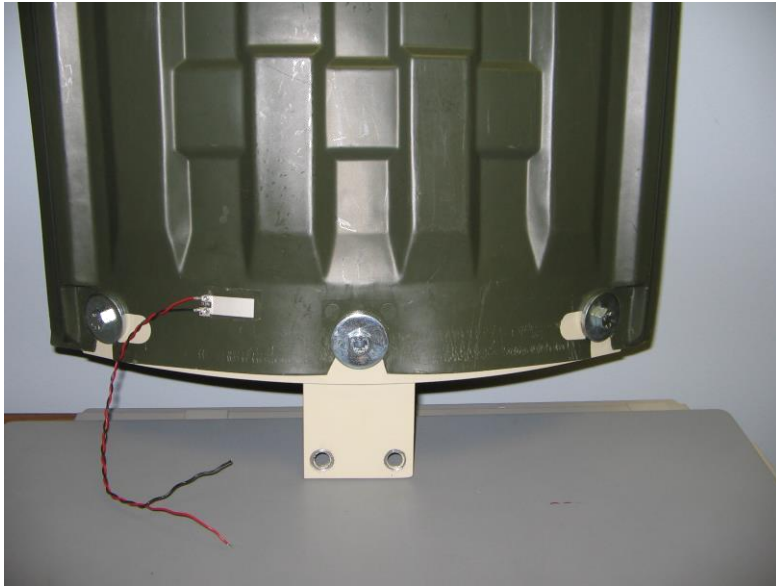
Mount Target Holder and Target

The target is best mounted when the mechanism is in the FOE position. With the target in the FOE position and the power switch OFF, mount the target holder. Instructions here are for the standard curved target holder and Army E target as shown below. Alternate or custom target holders may be different.

With the target arm in the FOE position, mount Army E targets (or any similar rigid target backer) to the curved target holder as shown. Your unit may be supplied with thick and thin washers, use the thick washers and tighten firmly. The E target will work better without notches.



Remove the backing from the hit sensor exposing the adhesive and stick it to the target as shown. Connect the two wires to the terminal block. The sensor is not polarized so either wire can be connected to either terminal.



We recommend using duct tape to support the wires. This will prevent the sensor from flexing and increase its life. The wires go under the two center screws.

PTX-XXX TRANSMITTER



General Information

The transmitter operates at 902-928 MHz spread spectrum frequency hopping. The RF output power is 4 mW. The operating range is up to 150 meters when the target is in line of sight. For indoor and urban training operations the range may be reduced depending on the type of obstructions encountered.

A standard 9-volt alkaline battery provides power. When the unit is off (the display is blank) it draws about 20 micro amps from the battery. If the transmitter will not be used for a month or more remove the battery. The battery life will depend on how the transmitter is used. If you send one command to the targets every 30 seconds you will get at least 40 hours of operating time from the battery. Under normal operating conditions, typical meantime between battery failure is about 3-4 weeks.

Turning the Transmitter On or Off

When the display is blank, pressing any key will turn the unit on. There is no need to be concerned about which key to press because the key that turns it on will be ignored. There is no way to manually turn the unit off. It turns itself off after about 100 seconds without pressing a button. When it has turned itself off, it will turn on in the same state as when it turned off.

The Menu System

To enter the menu system the display should read "TARGET _RUN" on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. Press **MENU** and the opening menu will be displayed. There will be an arrow to the left of one line. That arrow can be moved to other lines by using the up or down arrow keys. When the arrow points to the desired selection, pressing **ENTER** will take you to that item. If you are setting up a target unit and the arrow is pointing to a line with an item you wish to change, pressing the **LEFT ARROW** key will decrement that item and pressing the **RIGHT ARROW** key will increment that item. Once the item you are changing is set as desired, pressing **ENTER** will execute the change. The **EXIT** key backs up to the previous display.

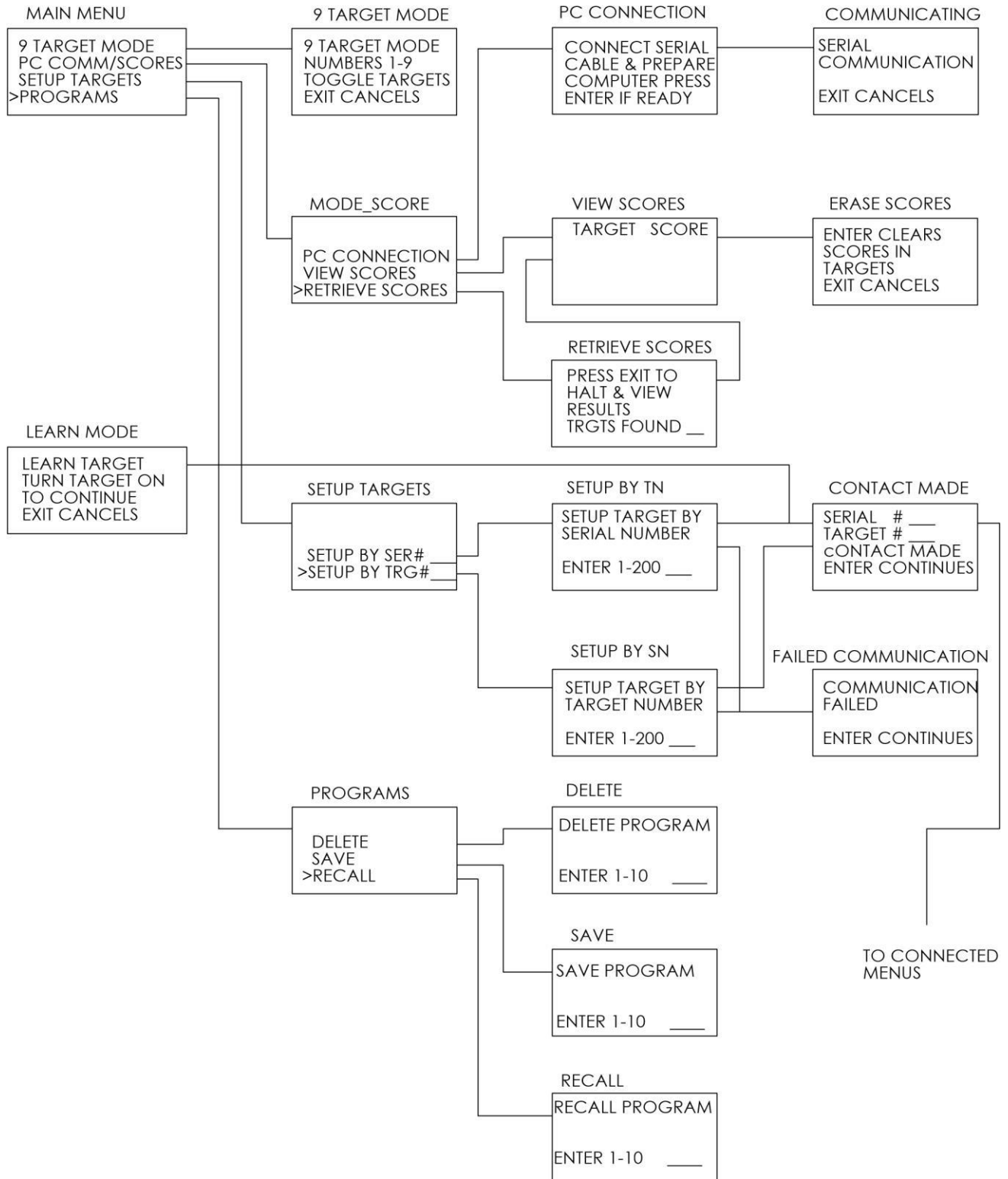
Number Entry

Target numbers and serial numbers are entered with the number keys on the keypad. Most other numbers are changed using the left or right arrow keys. When entering target numbers or serial numbers there is no need to enter the leading zeros. When target numbers or serial numbers are displayed, the leading zeros are not displayed.

If you make an error in entering a target number or serial number, correct it by typing over it. For example, if you intend to enter target number 2 but you press 5 instead, type 002 to correct it.

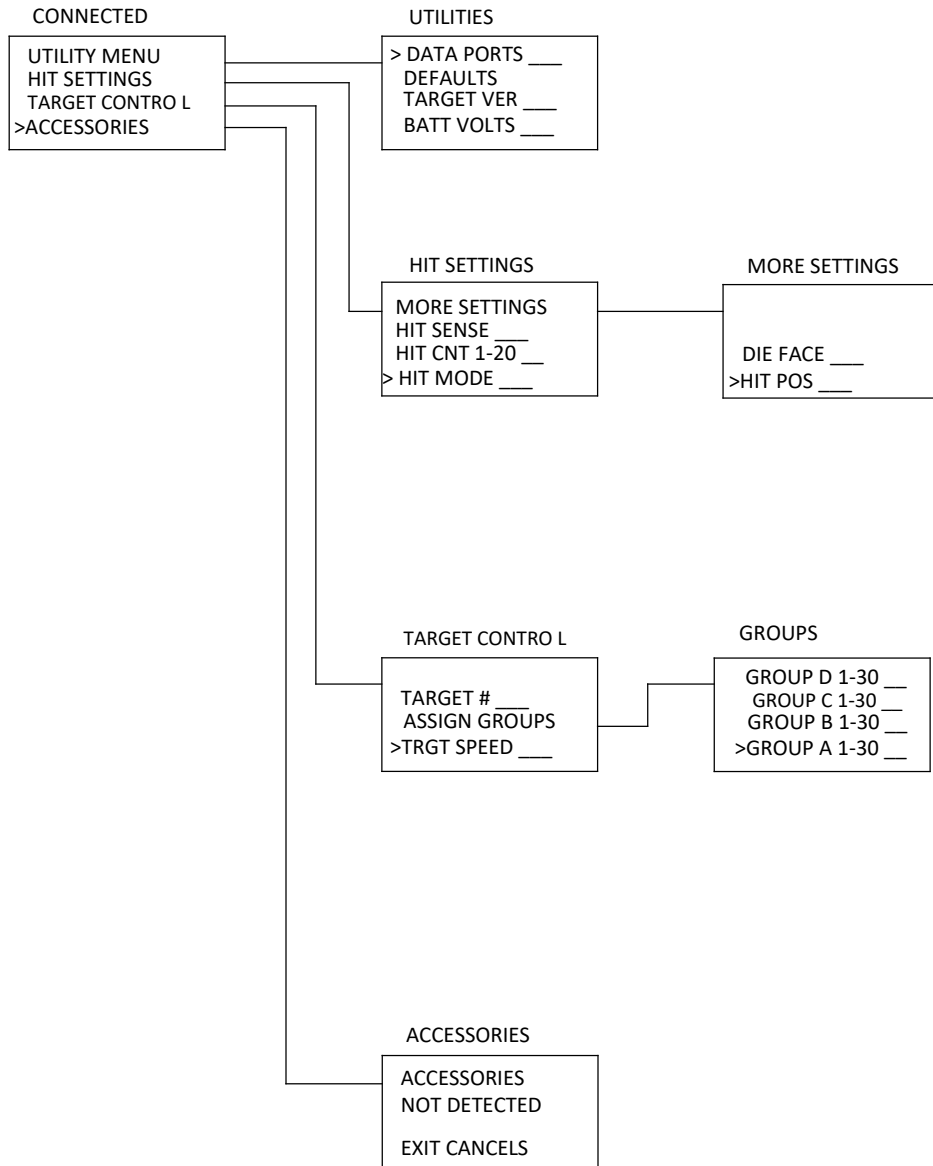
PTX200/600/2000 MENU TREE

NOT CONNECTED TO TARGET



PTX200/600/2000 MENU TREE

CONNECTED TO TARGET



TARGET CONTROL

9 Button Mode

If you have 9 or fewer target units, you may want to use the 9 button mode to control the targets. You can select this mode from the opening menu. When in this mode, pressing buttons **1-9** will cause the target with that target number to change state. If the target is up, it will go down and if the target is down it will go up.

Run Mode

In run mode the display should read "TARGET_RUN" on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. To operate a specific target, enter that target number or press **ALL** if you want all targets to respond, then with the green buttons at the bottom of the keypad choose the desired face. If you do not have a twister (or bi-directional) target arm, the **FRND (Friend); EDGE** or **FOE** function keys will bring the target up and the **DOWN** function key will bring the target down.

To use target groups, (You must assign targets to groups to use this feature. See "Groups", under "Target Set Up" on page 11.), press the **RIGHT** or **LEFT ARROW** key and the word "**TARGET**" will be replaced by "**GROUP**". Enter the group number with the number key, then choose the face. All targets with that group number will respond to the command.

Hold Mode (Programs)

When you are in run mode, pressing the **RUN/HOLD** key will put the transmitter in hold mode. Notice the * in the left column and the "RUN" is replaced with "HOLD" to indicate hold mode. Hold mode is different from run mode in that the commands do not go to the target as they are entered. The commands are stored in memory and sent when the **RUN/HOLD** key is pressed again. This allows you to enter simple programs from the keypad. For programs of more than 125 commands you must create them on a computer using special software and download them to the transmitter. You can enter target and group commands as in run mode and there are two additional commands, "PAUSE" and "DELAY". Use the left and right arrows to display these commands. Pause stops commands from being sent to the target until you press enter. Press **ENTER** when "PAUSE" is displayed to store a pause command. Delay allows you to stop commands from being sent to the target for a fixed length of time. When "DELAY" is displayed, enter 1-240 seconds and press **ENTER**. A program cannot begin with a PAUSE or DELAY, only with TARGET or GROUP.

Saving Programs

Programs are created in hold mode as described above. You may run the program before saving it or save it as soon as you enter it. The **EXIT** key will delete the commands to allow you to create a new program. When the commands are displayed press **MENU** and select “PROGRAMS” and “SAVE”. You can save up to 125 commands in each program and 10 programs can be saved. The programs are saved in nonvolatile memory so they will remain saved even when the battery is replaced. There are menu selections for recalling and deleting programs. You can overwrite an old program without deleting it first. When a program is recalled pressing **RUN/HOLD** will execute it.

Editing Programs

Only programs created from the keypad can be edited. Computer generated programs must be edited with a computer. To begin editing you first need to have a program on the display. To display a program, either enter one as in **Hold Mode** above or RECALL a program. The program you are editing must have been originally created from the keypad.

Once the program is displayed, pressing the up arrow gets you into edit mode. The bottom line of the display will show “_<--DEL INS-->”. The up and down arrows will move the pointer in the far left column up and down to select the line you desire. Delete and Insert are the only actions you can take. The left arrow deletes the selected line and the right arrow inserts a line above (earlier in time) the selected line. Pressing the right arrow inserts a blank line. You must enter a new command as in **Hold Mode** above.

Computer Generated Programs

Programs with up to 10,000 commands can be created with optional Universal Target Controller software and an optional Programming Cable (part number 8000-0646). The transmitter must be prepared to receive data from the computer. The following menu entries prepare the transmitter:

```
MENU>PC COMM/SCORES>PC CONNECTION
```

The display will prompt you to press enter when ready, you may do so either before or after the cable is connected to the computer. The display should read:

```
SERIAL  
COMMUNICATION
```

```
EXIT CANCELS
```

Do not leave it in this mode for long periods of time because it does draw power from the battery. Press **EXIT** as many times as it takes to get the display to read “TARGET _ RUN” on the bottom line to increase battery life.

TARGET SETUP

General Information

The target unit can be customized for your application by changing parameters in the target unit. There is a list near the end of this manual that shows the parameters that you can change. The parameters are stored in nonvolatile memory so they will remain the way you set them even if the battery must be replaced or the unit is turned off. Changes can be made using the transmitter.

Contacting the Target

There are 3 ways to contact the target: Learn mode, by serial number or by target number.

Learn Mode

The display should read "TARGET _ RUN" on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. To begin with, you must be within reach of the target unit's power switch. Turn off the target's power switch. On the transmitter press **LEARN**, the display will then indicate that it is in learn mode. Because the radio receiver must remain on when in this mode, the transmitter will automatically exit the learn mode in about 30 seconds to conserve power. Turn on the target's power switch. When the target is turned on it will transmit its serial number and target number. The numbers will be displayed on the transmitter's display. Press **ENTER** and after several seconds the target's parameters will be downloaded and a menu will appear. The target has now been contacted.

By Serial Number

The display should read "TARGET _ RUN" on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. Press **MENU**, select "SETUP TARGET" then select "SETUP BY SER#". Using the number keys enter the serial number of the target you want to contact. There is no need to enter the leading zeros and if you do they will not be displayed. Press **ENTER** and the serial number and target number will be displayed. Press **ENTER** and after several seconds, the target's parameters will be downloaded and a menu will appear. The target has now been contacted.

By Target Number

The display should read "TARGET _ RUN" on the bottom line. If there is something else displayed, press **EXIT** as many times as it takes to get to that message. Press **MENU**, select "SETUP TARGET" then select "SETUP BY TRG#". Using the number keys, enter the target number of the target you want to contact. There is no need to enter

the leading zeros and if you do they will not be displayed. Press **ENTER** and the serial number and target number will be displayed. Press **ENTER** and after several seconds the target's parameters will be downloaded and a menu will appear. The target has now been contacted. Once the target has been contacted, the following menu will be available to change the desired parameters.

Utility Menu

DATA PORT

This is a setting to allow the ports on the target unit to be used to control the target (through a custom RS485 network) instead of using a transmitter. You can select either port or both ports to be target control ports. The default value is "NONE" and it should be set that way when a transmitter controls it.

LOAD DEFAULTS (Reset Function)

Pressing **ENTER** when this line is selected, will restore all of the target parameters to factory defaults. Be sure to reassign a target number to the unit after executing this command.

TARGET VER

This is for information only. It displays the target's firmware version. This is important for future product upgrades.

TRGT BATT

This is for information only. It displays the target's current battery voltage level.

Groups

Every target can be a member of up to 4 different groups. When you are in the "ASSIGN GROUPS" menu there are 4 places to assign group numbers to the target. They are Groups A-D. They all do the same thing. They cause a specific target to respond to a group command. For example: Assume you have 10 targets arranged in 2 rows with 5 targets in each row. You could assign all 5 targets in row 1 to respond to group 1 and all 5 targets in row 2 to respond to group 2. When a group 1 command is sent, all the targets in row 1 will respond and when a group 2 command is sent, all the targets in row 2 will respond. This way you can quickly control all 5 targets in a given row with one transmitter command. You can still control the targets individually by their target number.

To set up the above scenario, just set GROUP A to 1 in the 5 targets in row 1; set GROUP A to 2 in all the targets in row 2. Leave all the GROUP B-Ds set to zero. If you want a target to respond to more than one group number, put that group number in GROUP B and the target will respond to either of the 2 groups' commands.

Target Speed

The “TRGT SPEED” menu item allows you to select either high or low speed for the target motion. High is at 100% motor speed and low is at 75%.

BACKUP TARGET BATTERY (OPTIONAL)

The battery is a rechargeable 12 volt 7.5 amp hour sealed lead acid type. The battery can be recharged by connecting the supplied charger to either port on the target unit and charging for 12 hours. A fully charged battery will power the unit for approximately 50 hours if the target is never cycled up and down. If the target is operated one up and down cycle every minute the battery will last approximately 10 hours. Keep the power switch off when the target unit is not in use to conserve battery power.

You can measure the battery voltage with the transmitter. Contact the target and go to the “UTILITY MENU”. The battery voltage will be displayed. If the voltage is below 11.5 volts, the battery should be recharged. Prevent the target battery from going into deep discharge by allowing the battery charger to “float”, when the target unit is not in use.

HIT SENSING

General Information

Hit sensing is accomplished using a thin film vibration sensor. It produces a voltage when a bullet passes through the target. The voltage is conditioned by the target unit so a single hit can be scored when a bullet hits the target. The target unit hitting a hard surface as the target moves up or down can create false hit counts. To keep the hit sensing accurate, be sure the target unit is firmly mounted. Bullets fired into the target while it is on its way up, will not be detected. Bullets can be detected at a minimum rate of at least 5 rounds per second.

The target is shipped with the Hit Mode off. To activate hit sensing, activate the transmitter and contact the target unit. Select "HIT SETTINGS" and press **ENTER**. Use the left and right arrows to choose either "BOB" or "DIE" mode and press **ENTER**. "HIT SENSE" and "HIT COUNT" may be changed as desired.

BOB Mode

When the target is up (in either FRND, EDGE or FOE positions), hits will be detected until the "HIT COUNT" number programmed into the unit is reached, then the target will go down and immediately "bob" back up. This gives an instant indication that the target has been hit.

DIE Mode

When the target is up (in either FRND, EDGE or FOE positions), hits will be detected until the "HIT COUNT" number programmed into the unit is reached, then the target will go down and stay down until the target is commanded to go up by the transmitter.

Hit Sensitivity

Hit sensitivity can be adjusted to match the weapons being used. "HIT SENSE" determines how hard the target must be hit to detect a hit. The range of this number is 1-20. The lower the number, the more sensitive it will be. The factory default is 3, which will work for most weapons.

Hit Count

Hit count can be set from 1 to 20 hits. This is the number of hits required to cause a BOB or a DIE to occur. Each time the target is cycled down and back up, the count in the unit is cleared to zero, that way each time the target is presented to the shooter, it will take the same number of hits. Do not confuse the hit count with the hit score.

Hit Score

The hit score is ACCUMULATED in the target unit until the unit is turned off or cleared by a command from the transmitter. The maximum number of hits that can be stored is

225. If more hits are detected when it is already at the maximum number, it will remain at the maximum number. Hit scores can be retrieved, viewed and cleared with the transmitter. From the opening menu choose "HIT SCORES" and "RETRIEVE SCORES". Once you have made the selection to retrieve scores, the transmitter will query all target numbers starting with 1 and continuing to 200. This process takes about 30 seconds to complete. The display will show you how many targets have been found. When it has polled all your targets, you may terminate the search by pressing **EXIT**, or you may let it finish polling on its own. Either way, it will display a list of the targets along with their scores. You can scroll up and down the list with the up and down arrow keys. Press **EXIT** to leave this display and you will be given a chance to clear the scores in all the targets, or to just leave the display without clearing. Either way, the scores you retrieved will remain in the transmitter for viewing until you retrieve the scores again or remove the transmitter's battery.

Hit Position

Under the "HIT SETTINGS" menu, "MORE SETTINGS" is a "HIT POSITION" setting. It can be NORMAL, REVERSE, or NO EDGE. When set to NORMAL: FRND, EDGE and FOE commands will bring the target up. The DOWN command will bring it down, with the target arm nested into the housing. When set to REVERSE: FRND, EDGE and FOE commands will bring the target down, with the target arm nested into the housing. The DOWN command will bring it UP. The hit sensing will be active when the target arm is down. This mode is useful if you mount the target unit on a wall or ceiling, and have the target swing down into a doorway or window opening. NO EDGE is the same as REVERSE, except the edge face is disabled. This would be needed if you have a twister target arm and with the target arm in the down position, there is not enough clearance for the target to be in the edge position.

Die Face

Under the "HIT SETTINGS" menu, "MORE SETTINGS" is a "DIE FACE" setting. This mode is only useful when using a twister (or bi-directional) arm where the target could rotate when the hit sensor detects the correct number of hits. Always leave this set to DOWN when not using a twister target arm.

TARGET HOLDERS

The curved target holder supplied with the unit is designed to support Army E, F or 3D “Ivan” silhouette targets. This target system has been tested to work with this target unit without overloading the motor or causing excessive wear. If you choose to use a target backer other than the standard Army backers, keep it within the following specifications:

Total weight of all the parts connected to the target arm: 8 pounds or less

Maximum length: 42 inches

Maximum width: 28 inches

Test the material that the hit sensor will be attached to and make sure hits are reliably detected. The best substitute backer materials are cardboard backers with laminated surfaces, lightweight plastic, art or foam board, lightweight lathing, masonite board and very lightweight (no more than 1/8” thick) plywood. When using substitute backers, take into account wind loads and wet weather conditions (which can add “weight” on the target). Make sure the target doesn’t have any loose parts or wobble when in motion to cause false hits to be registered.

APPENDIX

Example Target Setup

Turn on Hit Sensing in DIE Mode

Be sure the unit you are changing is on.

- A. Press MENU
- B. Select SETUP TARGET and press ENTER
- C. Select SETUP BY TRG# and press ENTER
- D. Use the number keys and enter the target number to change and press ENTER
- E. Once contact is made press ENTER
- F. Select HIT SETTINGS and press ENTER
- G. With HIT MODE selected press the right arrow until DIE is displayed and press enter
- H. Choose the desired number of hits by selecting HIT CNT and using the right or left arrow to increase or decrease the HIT CNT number
- I. Exit from the menu system and you can use the target with hit sensing

Restore Factory Default Settings

Be sure the unit you are changing is on.

- A. Follow steps A-E above to contact the target
- B. Select UTILITY MENU and press ENTER
- C. Select LOAD DEFAULTS and press ENTER
- D. The target number will now be unassigned. It must be set to use the target.
- E. Press EXIT and the opening Target setup menu will appear.
- F. Select TARGET CONTROL and press ENTER
- G. Select TARGET NUMBER and use the number keys to select a target number and press ENTER
- H. Press EXIT enough times to return to the "TARGET _ RUN" line and the target can be controlled by the target number you just entered

See the body of the manual for more details on these and other target settings.

Factory Defaults and Option Ranges

OPTION	FACTORY DEFAULT	RANGE
Hit Count Sensitivity	3	1 lowest – 20 Highest
Hit Mode	OFF	Off, Bob, Die
Hits to Die	1	1-20
Hit Position	NORMAL	Normal, Reverse, Non-Edge
Die face	DOWN	Down, Edge, Foe, Friend
Target Number	0	0 = Unassigned 1 – 200
Target Speed	HIGH	Low, High
Data Port	NONE	None, PortA, PortB, Both
Group Member A,	0	0 = No Group 1-30
Group Member B,	0	0 = No Group 1-30
Group Member C,	0	0 = No Group 1-30
Group Member D,	0	0 = No Group 1-30

Glossary

- 9-BUTTON** Transmitter mode for one touch control of 9 or less targets, targets with numbers 1-9 will toggle position when buttons 1-9 are pressed on the transmitter.
- ALL** Any target that is turned on will respond to the ALL command regardless of TARGET NUMBER. The ALL command is only valid for movement commands.
- BOB** BOB will force the target to the DIE FACE and will immediately return to the current face.
- BULLET DEFLECTOR** Steel Barrier that mounts in front of the base unit and will deflect LOW VELOCITY ammunition.
- CHARGE PORT** Labeled PORTA and PORTB, a charger can be connected to either port with the target ON or OFF.
- DATA PORT** Labeled PORTA and PORTB, setting one or both of the data ports will disable status sends to the port. This is only used if a pendant or I/O control box is connected.
- PAUSE** A program command used to stop the program execution for a fixed length of time.
- DIE** After the correct number of hits is detected the target moves to the DIE FACE and remains there until the transmitter moves the target.
- DIE FACE** The face of the target will DIE or BOB when the correct number of hits has been detected by the hit sensor.
- DOWN** Commands the unit to move the target to a down position.

EDGE	Commands the unit to present the shooter with the edge of the target.
FOE	Commands the unit to present the shooter with an opposition face.
FRND (Friend)	Commands the unit to present the shooter with a friendly face.
GROUP	A group is a set of targets, with a common GROUP NUMBER. A group can contain any number of targets. A target can be a member of up to 4 different groups. Group numbers range from 1 to 30. The group number is stored in the target not the transmitter.
HIT SCORES	Reset upon base unit power up. This is the number of valid hits a target has received regardless of the HITS TO DIE setting. The base unit will count each valid hit up to a maximum count of 225 hits. After reading the hits with the transmitter they can be cleared or left unchanged. The scores can be viewed at any time using the VIEW SCORES menu option.
HIT SENSITIVITY	Setting will determine how hard of an impact is required to trigger the hit sensor. Higher numbers require a harder impact to trigger sensor.
HITS TO DIE	Number of hits to trigger a DIE or BOB action.
HIT POSITION	NORMAL—Target up hit sensor active; Friend, Edge, Foe will bring the target up. Down brings the target down. REVERSE— All functions are reversed; Friend, Edge, Foe are active when the arm is in the nest. Hit sensor also active when the arm is in the nest. Down will bring the target up. NON-EDGE is reverse operation but edge will not be a valid option.
HIT SENSOR	Thin film with an adhesive back and 2 wires. Can be connected to the terminal block on the TARGET ARM using a screwdriver. The sensor is not polarized, so either wire can be connected to either terminal.
HIT MODE	The target will ignore the hit sensor when off. After the correct number of hits are detected, the target will either DIE or BOB. DIE will change the target to the DIE FACE and remain there until the transmitter moves the target. BOB will force the target to the DIE FACE and will immediately return to the current face.
LEARN	Transmitter button to retrieve the SERIAL NUMBER and TARGET NUMBER of a unit. With the base unit off, pressing LEARN will put the transmitter into a special mode. Turning the base unit ON will allow the transmitter to get the data from the base unit and display it on the screen. Programming may begin once the SERIAL and TARGET numbers have been LEARNED.
LOAD DEFAULTS	Restore factory settings to the target.
LOW VELOCITY	Ammunition that travels at less than 1300 fps examples would be 22LR, 9MM, 40S+W, 45ACP.
PAUSE	A program command used to stop the program execution until the operator wants it restarted.
RUN/HOLD	Transmitter button to enable programming on the fly. RUN mode commands will be sent from transmitter immediately. HOLD mode

stores commands until RUN/HOLD is pressed, then it starts sending the commands entered.

SERIAL NUMBER	A unique number for each base unit, this number can not be changed. Leading zeros should be ignored when entering a serial number.
TARGET ARM	Steel tubing that connects to the output shaft of the unit. The target holder bolts to the target arm. Be sure to install the target holder correctly or damage to the unit may be caused.
TRGT BATT	Battery Voltage of the target unit.
TARGET HOLDER	Bracket that bolts to the target arm. An "Army E" target will connect to the curved part of the target holder using 3 bolts and washers. Be sure the target is captured between the washer and curved bracket.
TARGET NUMBER	A unique number for each target that is user defined. Each target should contain a unique target number. This number allows independent control of each unit from the transmitter. A target number of 0 means no target number has been assigned. ALL will still control the target. If duplicate target numbers exist, one or both targets may fail to operate correctly. Target numbers range in value from 1 to 200.
TARGET SPEED	The speed at which the target raises and lowers. High is 100% speed, Low is 75% speed. Only 2 choices exist for target speed.
TARGET VERSION	The version of software installed in the control board of the unit.
TWISTER	An optional arm that attaches to the target unit. This arm will rotate 180 degrees and presents the shooter with 3 face options FRND (Friend), EDGE, FOE.