

# EZPull MTX-8 Setup Manual

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## Overview

This manual is intended for gun club personnel responsible for setting up the EZPull MTX-8 multi-target controller.



**Keypad main functions**

Keys	Function
1-8	Release targets or select item by number
3	Move up or increase value
8	Move down or decrease value
4	Move left
5	Move right
[⊙↵]	Enter or Fire in auto mode
[⏻↑]	ON/OFF or Exit

**Turn EZPull MTX-8 On**

To start using MTX-8, remove the protective rubber boot and open the battery door. Follow the battery polarity marking on the bottom of the compartment, install 2 AA batteries in the battery compartment and replace the battery door and rubber boot.

The LCD will display the version number for 3 seconds and then the MTX-8 will turn off.

To turn MTX-8 On: Press the ON/OFF/SHIFT key [⏻↑]. The Main Menu will display on the LCD.

<b>1.MANUAL 2.AUTO</b> <b>3. SETUP ⏻. OFF</b>
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## Accessing Setup Menu

From the main menu, press and release the [3-C] key to access the Setup Menu.

If this is the first time you access Setup, the display will show "NO PASSWORD!".

Otherwise, you will need to enter the 4 digit password using the numeric keys 1-8. The display will show the Setup Options Menu:

1. PREF: Preferences Setup.
2. TAGT: Target Setup for Automatic Sequencing.
3. RSET: Reset Target Menu to Factory Default.
4. EXIT: Exit back to the Main Menu.

1.PREF	2.TAGT
3. RSET	⏻. EXIT

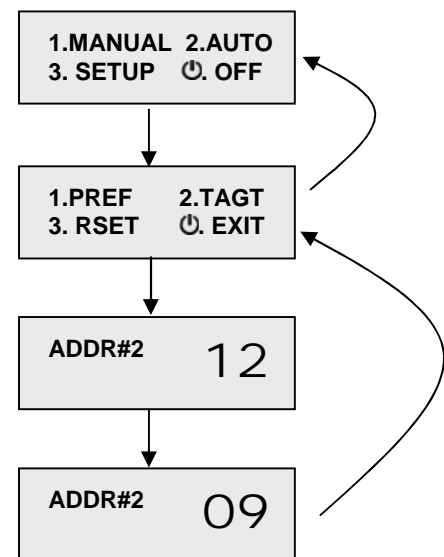
## MTX-8 Preferences Setup

From the Setup Options menu, press and release the [1-A] key to access Preferences setup. When in Preferences Setup, use the [4-D] and [5-E] keys to navigate between setup items. The setup item is shown on the top area of the display. Use the [3-C] and [8-H] keys to modify the selected setup item's value. The setup value is shown in large digits on the right side of the display. Also shown are arrows indicating available navigation keys: Up Down, Left or Right. Use the Enter [⏻] key to save each modified value individually. Use the [⏻] key to exit and return to the Setup Options Menu.

### Setup Example

Changing the Address value:

1. From the main menu, press [3] to select SETUP.
2. From the Setup Options Menu, Press [1] to enter Preferences.
3. Press the [5] key to navigate and select ADDR#2.
4. Use the [3] or [8] keys to modify the value.
5. Press the Enter [⏻] key to save the new value.
6. Press the SHIFT key [⏻] to exit and return to the Setup Options Menu
7. Press the SHIFT key [⏻] to exit and return to the Main Menu.



**Preferences Setup Items table**

Name	Description	Value range
ADDR#1	The 1st part of the radio address (Field ID)	01-14
ADDR#1	The 2nd part of the radio address (Station ID)	01-16
TXBR	0= short range to TMGR(*); 1 = up to 35 yards from TMGR	00-01
TXDIRECT	0 = control traps via TMGR; 1=control traps directly	00-01
GAME	Game type for automatic mode: 1 = 5-Stand	01
MENU	The menu number that will be used for Automatic Sequencing	01-06
CHAR/#	0 = show traps as number 1-8; 1 = show traps as characters A-H	00-01
IDLTIME	Idle time to OFF in minutes	03-15
FPDLAY	Default Following-Pair delay in seconds	01-06
BACKLIT	0 = LCD backlight OFF; 01-15, backlight ON duration in seconds from pressing any key.	00-15
RESERV1	Reserved – not accessible	00
RESERV2	Reserved – not accessible	00
PW-1	1st digit of password to access Setup	01-08
PW-2	2nd digit of password to access Setup	01-08
PW-3	3rd digit of password to access Setup	01-08
PW-4	4th digit of password to access Setup	01-08

(\*) TMGR = Target Manager Pay & Play target control system.

## ***Detailed Review of Preferences Items***

ADDR#1: If working with Target Manager (TMGR), this address must match the RCAD value on TMGR setup menu.

ADDR#2: If working with TMGR, this address must match the RCCH value on TMGR setup menu.

TXBR: If working with TMGR, this value must match the RCBR value on TMGR setup menu.

TXDIRECT: When set to 1, the MTX-8 can control traps directly without counting targets. Set to 0 to work with Target Manager (TMGR) target inventory and payment control system.

GAME: The game type for automatic sequence control. This value is currently fixed to 01 for Five-Stand.

MENU: The menu number that will be used for automatic sequencing mode. There are 6 Five-Stand menus that can be modified by the club's administrator. Select the menu that will be available to the users. See the built-in menus in Appendix 1.

CHAR/#: If you would like to identify the traps numerically, set to 0. Otherwise, set to 1 to identify traps by alphabetical order (A-H).

IDLTIME: Select how many minutes of idle time (no key presses) will pass before the MTX-8 will automatically turn OFF. Once OFF, you will need to press the ON/OFF key [ON] to resume operations from where you left the unit.

FPDLAY: Default Following-Pair delay in seconds. When you program an automatic target sequence, you have an option to select a Following-Pair in which the second target will be delayed by anywhere from 1 to 6 seconds. The FPDLAY is the default value that will be assigned automatically when you select a Following-Pair release mode. You can then modify the delay for each individual pair on the menu.

BACKLIT: This item controls the LCD back light. LCD backlight consumes considerable power and reduces the battery life. Unless using the MTX-8 at night, set this parameter to 00 = LCD backlight OFF. Otherwise, set to any value up to 15 seconds. The backlight will turn ON after each key press and will stay on for the duration selected.

RESERV1 & RESERV2: Items currently not accessible.

PW-1 through PW-4: Select and set a 4 digit password to access Setup Menus. You will need to remember this number in order to access the setup menu. The password is intended to prevent users from tampering with the MTX-8 setup. Do not leave the device without a password. Write the password and save in a safe place.

## MTX-8 Target Menu Setup

MTX-8 has 6 factory built-in Five-Stand menus (\*). The club's administrator can modify (reprogram) each of these menus to suit specific 5-Stand layouts and shooter levels.

The built-in menus are:

1. Level 1, 6 traps – all singles
2. Level 2, 6 traps – three singles and a pair
3. Level 3, 6 traps – one single and two pairs
4. Level 1, 8 traps – all singles
5. Level 2, 8 traps – three singles and a pair
6. Level 3, 8 traps – one single and two pairs

(\*) See the specific built-in menus in Appendix 1.

### Target Menu Programming Overview

To understand MTX-8 target menu programming consider the 5-Stand sequence as a table with 5 columns, one for each shooting stand and up to 5 rows one for each shooting queue (steps). The table below illustrates a 5-Stand menu with 3 singles and one report pair on each station:

		[ 4 ] Stand (S) [ 5 ]				
		1	2	3	4	5
[ 3 ] Queue (Q)	1	2	1	5	4	6
	2	1	4	6	3	2
	3	6	3	4	5	1
	4	4>5	2>6	1>3	2>4	3>5
[ 8 ]	5	-	-	-	-	-

Since we work with a very small display, we can only see one “cell” of the table on the screen.

We use the navigation keys to “shuttle” from cell to cell in the table:

- The [4-D] and [5-E] keys are used to navigate between stands (columns).
- The [3-C] and [8-H] keys are used to navigate between queues (rows)
- The Enter [⏏] key is used to enter into a cell so that we can modify the trap selection and release mode.

Once “inside” the cell:

- The [4-D] and [5-E] keys are used to navigate between the items.
- The [3-C] and [8-H] keys are used to change the value of the selected item.
- The Enter [⏏] key is used to save changes and exit the cell.
- Alternatively, the [⏏↑] key can be used to exit the cell without saving.

## Modifying a Target Menu

Before attempting to modify a target menu, it is recommended you write the menu in a table format (Use a copy of the table form provided in Appendix #2) and work with the table in front of you. Determine the desired release mode for each pair. The release modes available are:

Release mode	Symbol	When pressing the Fire [Ⓢ] key
True Pair	1 + 2	Two targets release simultaneously
Report Pair	1 > 2	First target released. RED light ON steady. Press the fire [Ⓢ] key again upon shooters gunshot (report) to throw the second target.
Following Pair	1 ~ 2 4	First target released. RED light blinks. Second target released automatically after the number of seconds indicated under the ~ symbol (i.e., 4 seconds)

- From the Preferences Menu (see above), select the menu number that will be used. Save it and return to the Setup Options menu.
- From the Setup Options Menu: Press the [2-B] key to access Target Menu Setup.
- Press the Enter [Ⓢ] key to start.
- The number of queues (steps) in the currently selected menu number is displayed.
- If needed, use the [3-C] and [8-H] keys to select the number of queues that will be used in the modified menu. Typically the number of queues corresponds to the shooting level:

Level	Targets	Number of queues
1	all singles	5
2	three singles and a pair	4
3	one single and two pairs	3

- Press the Enter [Ⓢ] key to continue.
- You will see the first (top/left) cell in the table. In the example we show a cell, corresponding with the table in page 7, with a single trap 2.

S:1	T1	T2	RM	FD
Q:1	2			0

- The left side of the display shows the cell coordinates: S:1 for stand #1 and Q:1 for queue #1
- The top line of the display shows T1 for 1<sup>st</sup> trap, T2 for 2<sup>nd</sup> trap, RM for Pair Release Mode and FD for Following-Pair Delay. The second line shows the values for the items in the first line.

- To Modify the Trap:

- Press Enter [Ⓢ] key to enter into a cell. The title "T1" for the first trap will be highlighted.
- Use the [8-H] key to change the trap number to #1. The cell coordinates will become highlighted indicating a change has been made to the menu.

S:1	T1	T2	RM	FD
Q:1	2			0

S:1	T1	T2	RM	FD
Q:1	1			0

- Save the changes: the Enter [Ⓢ] key to save changes and exit the cell.



9. We will now modify the cell in Stand #2, queue #4 from a true pair 2+6 to a Report Pair 1 > 8:

9.1. Use [5-E] key to navigate to stand 2.

9.2. Use the [8-H] key three times to navigate to queue 4.

9.3. Press Enter [Ⓢ↵] key to enter into a cell.

9.4. Use the [8-H] keys to change T1 to #1.

9.5. Use [5-E] key to navigate to T2.

9.6. Use and the [3-C] to change T2 to #8.

9.7. Use [5-E] key to navigate to RM.

9.8. Use and the [3-C] to change RM from "+" to ">"

9.9. Save the changes: the Enter [Ⓢ↵] key to save changes and exit the cell.

S:2	T1	T2	RM	FD
Q:4	2	6	+	0

S:2	T1	T2	RM	FD
Q:4	1	8	>	

S:2	T1	T2	RM	FD
Q:4	1	8	>	0

## Resetting Target Menus to Factory Default

Use this option carefully! Resetting Target menus to the built-in factory default will over write any custom designed Target Menu programmed into the MTX-8.

1. From the Setup Options Menu: Press the [6-F] key to access the RESET MENUS option.
2. Press the Enter [Ⓢ↵] key to revert to the factory default menus and erase all "customized" menus.

## Appendix #1: Built-in 5-Stand Menus

Menu Number 1						
6 Trap LEVEL 1	Stand					
	1	2	3	4	5	
Queue	1	5	1	4	2	6
	2	2	4	3	6	5
	3	1	5	6	4	3
	4	6	3	1	5	2
	5	4	2	5	3	1

Menu Number 2						
6 Trap LEVEL 2	Stand					
	1	2	3	4	5	
Queue	1	2	1	5	4	6
	2	1	4	6	3	2
	3	6	3	4	5	1
	4	4>5	2>6	1>3	2>4	3>5

Menu Number 3						
6 Trap LEVEL 3	Stand					
	1	2	3	4	5	
Queue	1	2	6	4	3	1
	2	1>5	3>4	2>5	5>6	2>6
	3	4+6	1+2	3+6	1+4	3+5

Menu Number 4						
8 Trap LEVEL 1	Stand					
	1	2	3	4	5	
Queue	1	5	6	2	1	3
	2	3	4	7	5	2
	3	1	2	8	6	7
	4	6	3	1	4	8
	5	8	5	4	7	1

Menu Number 5						
8 Trap LEVEL 2	Stand					
	1	2	3	4	5	
Queue	1	3	4	2	3	7
	2	6	8	1	4	5
	3	1	5	7	6	3
	4	2>7	3>6	4>8	1>5	2>8

Menu Number 6						
8 Trap LEVEL 3	Stand					
	1	2	3	4	5	
Queue	1	1	3	5	7	2
	2	3>8	1>5	6>8	1>4	2>7
	3	2+6	4+7	2+3	5+6	4+8

## Appendix #2: Automatic Sequence 5-Stand Forms:

		Menu #				
		Stand				
		1	2	3	4	5
Queue	1					
	2					
	3					
	4					
	5					

		Menu #				
		Stand				
		1	2	3	4	5
Queue	1					
	2					
	3					
	4					
	5					