

WARNING

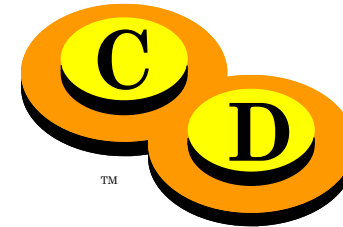
Safety comes first!

Before turning the Autopuller on, always insure there are no individuals working on or near the target machine the Autopuller is connected to. Always adhere to the club rules regarding the safe operating procedure for releasing targets.

Many individuals have elected to connect a common household 110-volt style male connector to the cord on the Autopuller. If the Autopuller is inadvertently plugged into an outlet, turned on, and operated, major damage will occur.

DO NOT, UNDER ANY CIRCUMSTANCE, PLUG THE AUTOPULLER INTO ANY OTHER CONNECTION THAN THE TARGET MACHINE PULL CORD RELEASE CONNECTOR!

If your Autopuller may possibly be used by other individuals, Clay Delay Inc. advises that you spend a little more for a dedicated twist lock connector. This will insure that a possible problem with a wall outlet cannot occur.



The Autopuller®

By CLAY DELAY INC.

Owner's Manual

Models APS/T/SC - 1



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Components of the Wired Package

- Autopuller
- 9-volt Alkaline battery
- Microphone
- Cord strain relief carabineer
- Instruction manuals
- Canvas bag (styles may vary)



Components of the Wireless Package

- Autopuller Controller
- Autopuller Receiver
- (2) 9-volt Alkaline batteries
- Microphone
- (2) Adapter Cords and Identifier tags
- Instruction manuals
- Soft carry case (styles may vary)



*Note: Batteries are not included in package for orders shipped outside continental United States.

You are responsible for obtaining and properly attaching your course connector to the Autopuller adapter cord. Wiring Information regarding attaching connector can be found in the wiring/receiver supplement.

Disclaimer:

Your safety should always come first. The Autopuller was designed to give accurate, consistent pulls without the need for a trap boy; however you should never practice alone. Clay Delay Inc. is in no way responsible for personal injury, damage or loss caused by an Autopuller unit. This product should never be used for purposes other than that for which it was designed by Clay Delay Inc.

Warranty:

This product is covered by a 1-year warranty against manufacturing defects and premature component failure.

Our goal at Clay Delay Inc. is 100% customer satisfaction. If, for any reason, you are not satisfied with our product or have concerns, please contact us at (716) 674-4489.

FEDERAL COMMUNICATIONS COMMISSION (FCC) REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

The wireless radios are required to comply with FCC rules and regulations. Consequently, the radios have limited range because of the limited output power under these rules. Changes cannot be made to these devices because such changes may void compliance with U.S. rules and regulations.

The Autopuller controller is preset to work in most environments. You simply connect the appropriate machine connector, install the batteries, plug in and shoot.

If you find that a particular function is not performing the way you like, please check the manual for that function and make the necessary adjustments. If you are still having difficulties, refer to the troubleshooting section. Of course, if you have any questions or need more direction, don't hesitate to contact us.

Manual Contents:

Pages

4	Autopuller Features
5	Autopuller Controller
7	Microphone setup
8	Transmitter/Machine Signal Setup
10	Battery saver option
11	Troubleshooting procedure
17	Future References

The Autopuller APS Controller

The Large Top Buttons are for Arming the Target Machine.

As seen when looking down on belt —

Right = Low Left = High

The Small Top Button is for releasing the target manually

Indicator Lights

#1 Green=Inst

#2 R/G=High target

#3 R/G=Low target

#4 Green=microphone
Red=low battery



Rotary Switch is voice sensitivity and ON/OFF



Switches for Microphone inside battery compartment
Refer to page 7 for adjustment

MICROPHONE The microphone used for the Autopuller is a standard microphone used for a computer. Using this style helps in keeping the costs down and it is readily available if a problem occurs with the supplied unit.



Future References:

Voice Switches 1 and 2 _____

Club _____

Connector _____

Signal Setting_____

Club _____

Connector _____

Signal Setting_____

Club _____

Connector _____

Signal Setting_____

Step H: Autopuller works ok at original club but not at a second club or at a different machine

- Verify that the connector wiring is the same on both machines.
- The second machine may need a longer signal.
- Wired– refer to page 8 for signal adjustment.
- *Wireless- Refer to wiring/receiver manual for adjusting the machine pulse.*

Step I: Foot-operated release machines

The signal to a foot-operated machine needs to be longer than a pushbutton controlled machine. If you experience a problem releasing targets, increase the machine pulse.

Wired– refer to page 8 for procedure.

Wireless- refer to the wiring/receiver manual.

Indicator Lights

The front panel lights indicate different things when the Autopuller is in different states.

In normal operation

- Steady red indicates that you are pressing a button.
- Instant light blinking indicates you are in standby waiting for a target to be armed.
- Instant light on steady indicates armed target.
- Alternating red and green indicates a target launch.

When adjusting Machine Signal (see page 8)

- The position of the fast green blinking indicates length of signal.

The lower light will tell you two different things

- The green light indicates when the microphone has picked up a sound loud enough to launch a target
- A blinking red light indicates a low battery

Indicator lights

Light 1 green=Instant
Light 2 r/g blinking=high target
Light 3 r/g blinking=low target
Light 4 green=microphone
red blinking=low battery



Normal Operation

1. *Wireless:* Turn the receiver on, by pressing the power symbol on the front panel. The power light will stay on for two seconds, then start to blink. This is now the standby state. Plug the adapter cord into the pull cord socket and into the receiver.
Wired: Connect your cord to both the Autopuller and the pull cord socket.
2. Turn the controller on, by rotating the side adjuster from the off position. Instant green light will be blinking. The Autopuller is now in standby. A target will not be released until a target machine is armed.
3. Use the side adjuster to set the sensitivity of the microphone. With the microphone plugged in and clipped to your collar, use the voice light on the front panel to adjust for your call. (Refer to page 7 for more information on the microphone adjustment.)
4. When you press an arming button the Instant light will come on solid, and the controller will be active. (Press either large button for a single target or both buttons for a double). A target will now release in response to your call. After each target is launched, the controller will go back into the standby state, thus preventing false targets.
5. If you are shooting with a companion, arm the target(s) as usual. When your companion calls for their target, press the small button on the top panel.

Step F: Wireless– Erratic Operation, missed targets

- *The first check is to verify you are not out of range. The normal maximum distance from controller to receiver is 175 feet.*
- *The placement of the controller on your person will have an impact on the range. Try moving your unit to a different orientation on your belt, shell pouch, jacket, etc.*
- *The receiver may be picking up interference from a surrounding structure or environment. Try moving the receiver to a different location and/or adjust the antenna orientation to the shooting field.*
- *Increase the machine pulse length. Refer to the wiring/receiver manual.*
- *Possibly a bad battery, replace with a new 9-volt Alkaline battery.*
- *Extend the cord on the receiver to reposition it closer to the middle of the skeet field.*

Step G: Wrong House Triggers

The most common problem is that the wiring in the machine connector is not properly configured. Identify the situation and change the wiring.

- **Machines work properly but the wrong machine triggers;**
black and white wires reversed in connector
- **High and Doubles work but no Low:**
black and green wires reversed in connector
- **Low and Doubles work but no High:**
white and green wires reversed in connector

Step D: System seems to work ok but no target launch

- Be sure target machine is on.
- *Wireless- insure receiver is on. If the receiver has prematurely turned itself off, refer to the wiring/receiver manual.*
- Check that the cord is connected properly and securely to the machine connector and Autopuller.
- *Wireless- Verify the data and target lights on receiver are operating properly.*
- If there is still a problem, contact Clay Delay for assistance.

Step E: Erratic operation, false targets

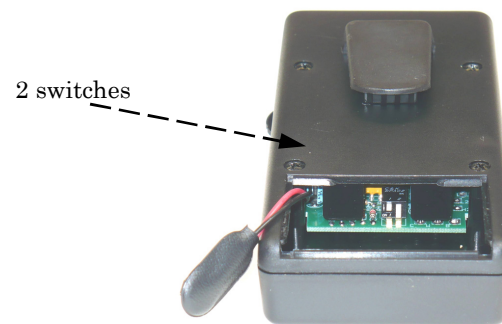
- Lower the sensitivity of the microphone using either the external adjuster or switches inside of battery compartment. See page 7 for setup.
- Turn unit off, count to five, turn units back on. See if the problem is corrected.
- The next check is to unplug the microphone. Launch several targets using the manual button. If the problem is gone, plug the microphone back into the side jack. While watching the front voice indicator light, pull and twist the microphone cord and connector. If the micro indicator starts to blink or stays on, there is a problem in the microphone. If possible, try a different microphone and see if the problem is resolved. Contact Clay Delay for a assistance.
- Possibly a bad battery, replace with a new 9-volt Alkaline battery.
- If there is still a problem, contact Clay Delay for assistance.

Microphone Setup

The microphone is preset to work in most situations. If you find that the external adjuster does not allow you to comfortably call for your target, you may adjust the sensitivity further by accessing the internal set of two switches.

The internal switch is located in the battery compartment. Open the battery door and remove the battery. The switch is now visible in the center of the unit. As seen through the opening, down is on and up is off.

The normal settings are for one switch to be on and one switch to be off. Turning switches 1+2 off will decrease the sensitivity of the microphone. You will now need a louder and longer call before the unit will respond. Turning switches 1+2 on will increase the sensitivity of the microphone. Keep in mind that the increased sensitivity will now release a target very easily, possibly even with the closing of your gun.



Wireless- Transmitter Signal Setup

Wired- Machine Signal Setup

The signal is set to work in most environments. If you are having difficulties in releasing a target, adjust the signal length.

Adjustment

- 1a. While holding the Manual button,
- 1b. Turn the Autopuller on.
- 1c. Release the Manual button.

One light will be blinking fast.

2. Press and release the Manual until the light corresponding to the signal you desire is blinking.

Light 1 blinking fast - .5 second signal

Light 2 blinking fast - 1 second signal

Light 3 blinking fast - 1.5 second signal

3. When you have selected the light you want, turn the Autopuller off. The next time you turn on, the new signal length will be used.

- If the controller does not follow the correct sequence, there could be a power problem. Install a new 9-volt Alkaline battery and using the side switch, turn the Controller on and off several times. If this does not correct the problem, contact Clay Delay for assistance.

Step C: Wireless- Receiver Operation

- *Turn the receiver on by pressing the power symbol on the front panel. The power light will illuminate for two seconds then start to blink.*
- *With the controller on and armed, press the manual button.*
- *The data light will illuminate for the length of time the controller light is on. The corresponding target light will blink on then off.*
- *If the receiver does not respond to the controller refer to the wiring/receiver manual*
- *If the receiver responds properly, your system is operating the way it was designed to. Continue to the step that best matches your problem.*
- *If the receiver does not respond to the controller, refer to the wiring/receiver manual for synchronizing.*
- *If the receiver does not consistently indicate a signal, try a fresh 9-volt Alkaline battery. If this does not correct the problem, contact Clay Delay for assistance.*

Step A: Can't Turn Controller On

(The Instant light should be blinking when the controller is turned on.)

- Be sure side rotary switch is on.
- Check for a weak or dead 9-volt battery.
- If you have the Battery Saver option, press the O/O symbol .

Step A: Receiver - Can't Turn Receiver On

(The power indicator light should be blinking when the receiver is turned on.)

- Press firmly on the power symbol on front panel. Power light should illuminate, then start to blink.
- Check for a weak or dead 9-volt battery.
- If external power was installed, insure power source is turned on and that the power source is plugged in to the receiver.

Step B: Controller Operation

- Turn Controller on. The Instant light will be blinking.
- Press one of the arming buttons. The Instant light should come on steady.
- Press the manual button. The corresponding target lights blink r/g, then go off.
- Instant light should go back to the blinking state.
- Plug the microphone into the side jack. The green micro indicator should turn on when you talk into the microphone. If not, refer to page 7, microphone setup.
- Press one of the arming buttons again.
- Call for a target.
- The mic indicator light should illuminate green and the corresponding target lights should flash red and green to indicate a target launch.

Transmitter/Machine Signal Setup

1a. Hold Manual button
and turn on.

1c. Release

2. Press and release
Manual button to
index lights

Light 1 = .5 sec
Light 2 = 1 sec
Light 3 = 1.5 sec

1b. Turn on
3. Turn off

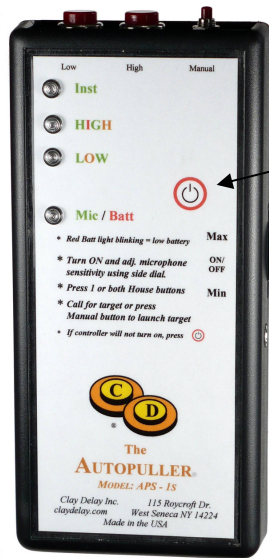


Continued on page 13

Battery Saver Option

The battery saver option will turn all power off after 30 minutes of non-use. When you turn your Autopuller on, the timer starts. Each time you launch a target, the 30 minute timer resets.

If the Autopuller will not turn on using the side rotary switch, reset the timer by pressing the Power symbol on the front panel.



Power symbol

Troubleshooting Procedure

If you understand what works, it should be very easy to find your problem. Please do a quick evaluation of what you have, before spending a lot of time changing things.

Identify the first step that does not work and proceed to that step on the following pages.

GO TO: IF:

- Step A Controller does not turn on?
- Step A *Wireless-* Receiver does not turn on?
- Step B Controller does not operate properly?
- Step C *Wireless-* Receiver does not respond to controller?

If you have completed the above 4 steps and all appears to be working properly, continue to the step that corresponds to the area you are having the problem in.

GO TO: IF:

- Step D Autopuller seems to work ok but no target launch
- Step E Erratic operation, false target launch
- Step F Erratic operation, missing targets
- Step G Wrong target launched
- Step H No target launch at a different machine or club
- Step I Foot-operated released machines