

SHOW PRO INDUSTRIES

P.O. Box 1235 (Hwy. 51 N.), Springtown, TX 76082 / (817)523-4055 / (817)220-5117 fax

Show Pro Industries would like to thank you for purchasing a Pro Cutter. Every effort has been made to provide you with an ultra high quality product designed to provide years of trouble-free service.

Packing List

Pro Cutter 1504PC with flag

- electronic control box
- digital remote control
- black & white foam trainer's flag
- kevlar cable
- cable tensioner
- installation instructions

INSTALLATION INSTRUCTIONS:

1. **Mount control box:** Bottom of electronic control box should be mounted approximately 45 inches above ground level. Insert four 1/4" bolts or lag bolts through drive box mounting tabs into steel or 1" plywood. (see included drawing) Or attach directly to wood, pipe or panels.
2. **Mount cable tensioner:** Mount cable tensioner on opposite side of arena from control box approximately 45 inches above ground level. The included universal bracket easily attaches to flat panel, wood or pipe.
3. **Install Kevlar cable:** To install Kevlar cable, start in center of arena. Take one end of cable around off-side pulley, across arena, around both pulleys on bottom of control box, and back to arena center. Tie one end of cable to left side of flag and other end to right side of flag. Tighten. Cut off extra line.
4. **Apply Power:** Plug Pro Cutter into a grounded 120VAC, 3-prong outlet. Turn power on. *NOTE: EURO models require 240VAC/50HZ*
5. **Make initial settings on control box:** Your new Pro Cutter 1504PC can be tailored to suit your riding style and ability. We encourage you to experiment with the various controls before introducing your horse. The following common settings will allow you to get started most productively:
 - **Speed 1 = 20 (left speed dial on control box)**
 - **Speed 2 = 45 (right speed dial on control box)**
 - **Logic = user preference**
 - **Brake = on**
 - **Rate = 10**
6. **Remote control power:** Press POWER switch located on right-side of remote control pouch.
7. **Limits:** The Pro Cutter 1504PC is equipped with a unique LIMIT feature designed to prevent over-runs or crashes when operating the remote control. To set these LIMITS:

- a. Press left gray switch on remote control; flag will travel left. Have flag stop within 10' of left side. This will become the left side limit.
- b. Press right gray switch on remote control; flag will travel right. Have flag stop within 10' of right side. This will become the right side limit.
- c. Bring flag back to center.

LIMITS are now set and the flag will automatically travel within these limits using remote control. LIMITS can be "cleared" by pressing and holding the orange "clear" button on the remote control for 5 seconds or cycling power to the control box.

Note: LIMITS must be re-set whenever power is turned off to the control box.

ADDITIONAL FEATURES:

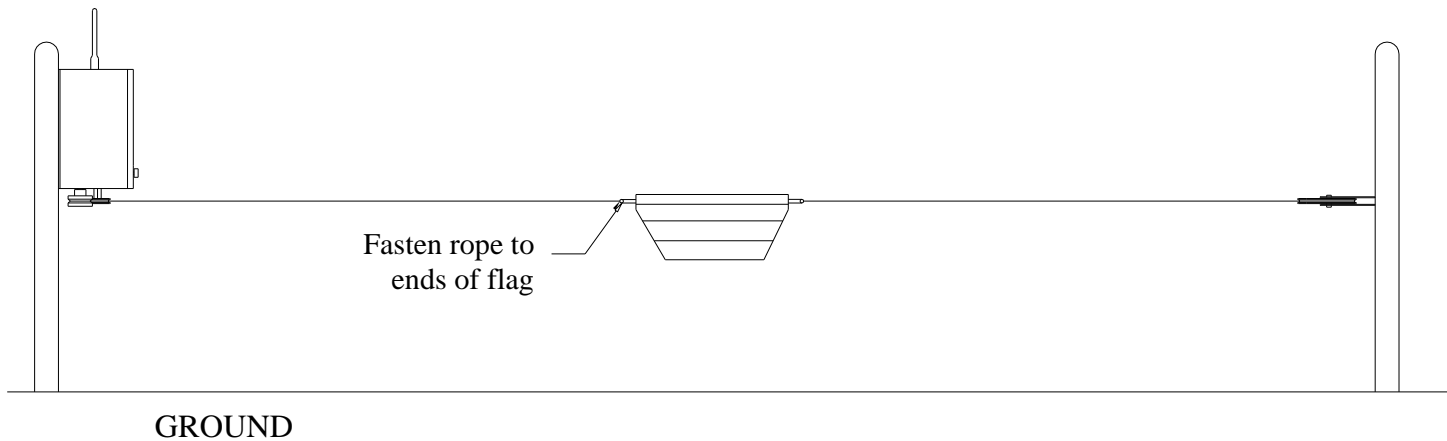
- * Fully programmable with auto-learn feature
- * Crash protection through arena LIMIT management system
- * Soft-shift: eliminates hesitation when shifting from Speed 1 to Speed 2
- * Soft-start acceleration: Graduated acceleration in 1st and 2nd speeds
- * Ultra-fast programmable radio system
- * Button antenna system prevents damage
- * Variable acceleration RATE
- * Large drive system: Heavy-duty industrial components
- * Weather-tight NEMA enclosure

Thank you for choosing.....

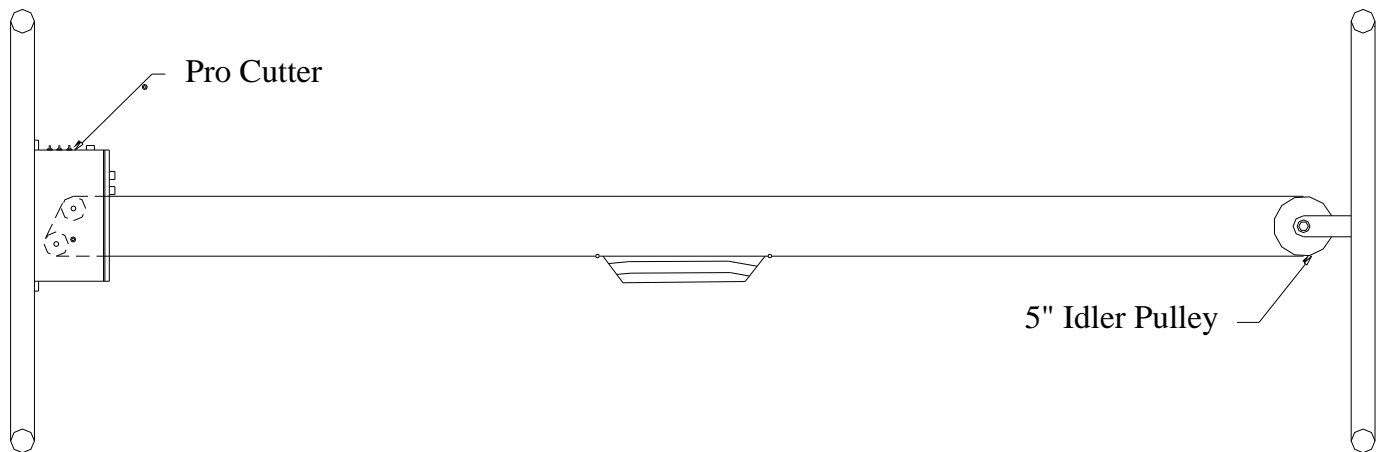
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FRONT VIEW - FLAG MODEL



OVERHEAD VIEW - FLAG MODEL



OPERATING INSTRUCTIONS

Following is a brief description of the various switches and dials:

1. **POWER:** Flip POWER switch ON to energize control box. Red POWER light will illuminate. The unit requires 5 seconds to initialize. Avoid pressing any control buttons while unit initializes.
2. **MANUAL:** Operate control box left, right, and change speeds.
3. **LOGIC:** Reverses the direction the flag travels.

Example: After the Pro Cutter is installed, attach remote control to your wrist (wrist watch position) and button assembly on index finger. Press left switch with your thumb. If flag travels to left, you're ready to go. However, if flag travels to right, toggle LOGIC switch. This will cause the flag to travel left as you press left switch and right as you press right switch.

4. **FUSE:** Power surges, faulty cord, or defective components may cause a fuse to blow. When this happens, remove fuse and replace using **only 4 amp/250 volt AGC fuse**, or permanent damage may result.

NOTE: power indicator light will not illuminate when fuse is bad.

5. **BRAKE:** If the brake is "On", the flag will stop instantly when you release the switch on the remote control. If the brake is "Off", the flag will coast 12" to 14" before coming to a complete stop.
6. **RATE:** Presets the acceleration profile in SPEEDS 1 and 2. With each horse, it can be desirable to change the RATE at which the flag accelerates. Typically, younger horses can benefit from longer RATE periods since it provides more time to collect and draw; thereby promoting a proper turn-around. As the horse progresses, the acceleration period can be reduced to help the horse come through the turn at a faster rate.

7. **SPEED DIALS:** Front face of control box

- **SPEED 1:** The left speed dial is the starting speed. When the control box is asked to run using either remote or manual control

switches, the flag will begin moving at Speed 1 regardless of direction. To stop, simply release button or switch.

- **SPEED 2:** The right speed dial is second speed. To access Speed 2, begin by pressing a run button on remote or manual control. The flag will begin moving at Speed 1. When traveling at Speed 1, release button and re-press immediately. Control box will shift to Speed 2.

8. **REMOTE CONTROL:** The remote control can be worn in a variety of ways depending on comfort and convenience. The most common method is to strap the control pouch to your preferred wrist, and strap the button assembly to your index (pointer) finger. The riders thumb is then used to operate the run buttons.

The standard remote control has a total of 5 buttons:

- 1 - **POWER Switch:** on right side of pouch. Press switch to operate remote control. Red light will illuminate each time a function button is pressed. A solid light or no light indicates battery replacement is required.
- 2 - **GRAY:** operate cow left, right, and shift speeds
- 1 - **BLUE:** selects and de-selects program PLAY mode
- 1 - **ORANGE:** clears program memory after holding 2 seconds, AND clears arena limits after holding 5 seconds or more

NOTE: The remote control uses a standard 9-volt battery which is pre-installed and ready for operation.

NOTE: The Pro Cutter 1504pc CCTD contains an all new ultra-high performance radio system eliminating the need for a traditional "whip" style antenna. The small button antenna located on top of the drive enclosure is all that is required. For a complete description, please refer to the attached RADIO BULLETIN.

9. **PROGRAM:** Once the power is on, a RED program indicator light on the face of the control box will begin flashing at 1 second intervals, indicating the LIMITS of the arena have not been set. ***Refer to Item #7 (Limits) of the Installation Instructions.*** With the arena LIMITS established, the RED program indicator light will stop flashing, indicating the unit is ready to operate.

NOTES:

- When unit is powered off, all programmed limits and recorded moves are cleared unless stored; see **STORING PROGRAM** instructions below.
- **LIMITS** must be set before operating
- **LIMITS** can be taught starting in either direction
- **LIMITS** should be set allowing for 10' shut-down area
- Flashing Program light indicates **LIMITS** not ready
- Once **LIMITS** are set, the Pro Cutter is automatically placed in **RECORD** mode
- **LIMITS** establish operating parameters for computer playback
- **LIMITS PROVIDE CRASH PROTECTION WHEN OPERATING THE REMOTE CONTROL OR MANUAL CONTROL SWITCH**

A. **RECORDING: working program**

The Pro Cutter constantly monitors and records each movement of the flag without user input. This includes intervals between movements, speed changes, direction changes, and distance. **RECORD** mode is automatic and occurs each time the user operates the remote control or manual switch. Pressing **PLAY** will generate a temporary program, continuously playing back random moves. Pressing **PLAY** again will stop the playback.

NOTE: This data is stored in temporary memory and will be erased when power is switched off to control box, or the rider selects **CLEAR ALL** on the remote control or control box.

B. **STORING PROGRAMS: permanent programs**

The Pro Cutter PC can store 2 programs to permanent memory. These programs **will be retained** during **CLEAR ALL** function or cycling power. Both directional control buttons represent a permanent storage area. After you have created a working program, press the orange **CLEAR** and left directional control buttons, or **CLEAR** and right directional control buttons, **SIMULTANEOUSLY** to store the current working program to permanent memory.

Note: Storing a new working program to a previously used storage area overwrites the previous program.

C. **PLAYBACK: working program**

Pressing the PLAY switch will initiate playback of your recorded steps, and turn on the program indicator light on the front of the unit. The unit will continue to generate moves and the program indicator light will remain lit until the PLAY switch is pressed a second time. Once playback is stopped, the unit will automatically begin recording any new moves made with either the remote control or manual switch. The program continuously evolves whenever the rider is operates the machine.

NOTE: New moves will be ADDED to the working program unless CLEAR is selected. Only movements from the remote control or manual switch will cause new steps to be appended to the end of the current steps. Once memory is full, new steps will begin overwriting the first stored steps. If no new steps are recorded, the unit sits in a “standby” mode.

D. **PLAYBACK: permanent programs**

To play a previously stored permanent program, ***press and hold blue*** PLAY button and immediately press the gray directional control button that corresponds to the program you wish to play back.

E. **CLEARING WORKING PROGRAM AND LIMITS:**

Clearing the working program and limits is done by ***pressing AND holding*** orange CLEAR switch.

- To clear program data, press and hold orange CLEAR switch 2 seconds
- To clear ALL program data AND limits, ***press and hold*** orange CLEAR switch for 5 seconds. New LIMITS must be established before operating machine.

NOTE: Clearing of program memory or limits can only be accomplished when NOT in PLAYBACK mode. Pressing the CLEAR switch during playback will cause the indicator light to flash rapidly and the command will be ignored.

NOTE: Holding switch for 5 seconds or more clears BOTH program memory AND limits. The unit will begin flashing the program indicator light ready to learn new limits.

NOTE: A rapid flashing of the program indicator light indicates an error has occurred. Reset by cycling power to control box.

NOTE: CLEAR switch is located on both remote control and control box.

10. **Practice:** Attach remote control to your wrist by inserting your hand through Velcro loop on pouch. Attach switch plate to index finger and rotate buttons so they can be pushed by your thumb. Walk to center of arena and practice operating machine. Make any necessary adjustments to cable, etc. Once comfortable with the controls you are ready to introduce your horse to the Pro Cutter. We recommend working at slow speeds until both horse and rider are acclimated.

Note: Keep in mind that all moves will be automatically recorded and may be played back at any time.

BULLETIN: Digital Radio Upgrade

Show Pro Industries is proud to announce that our next generation remote control radio system has been installed in your new Pro Cutter. This new “state of the art” operator interface provides many advantages over other remote control systems. These include user programmable functions, instant response, extended range, no outside interference, and an on/off switch for extended battery life.

The remote control system comes pre-equipped with an easily replaceable 9 volt battery and is ready to operate once your Pro Cutter is installed. As with any electronic device, the remote control should be stored in a cool, dry location to enhance battery life and prevent corrosion. Should the remote control become wet, damage may be prevented by immediately removing the battery and leaving the battery door off in a warm, low humidity location for several hours. The battery should also be removed during extended storage periods exceeding 2 to 3 months. Direct replacement remote controls are readily available should the original unit become lost or damaged.

IMPORTANT SAFEGUARDS:

1. Electrical enclosure should be protected with a non-metal roof or shield. This not only protects the paint finish but also keeps rubber components (gasket, boots, antenna, etc.) from drying out.
2. **Warning:** Electric shock or malfunction could occur if power cord or plug is damaged in any way. Do not work Pro Cutter in rain – or allow cord or plug to lie in water
3. Always use properly grounded 110VAC electrical outlet.
4. Do not operate Pro Cutter if electrical enclosure or any of its components are damaged in any way, or after malfunction.
5. Use Pro Cutter only as intended and described in literature.
6. Always unplug Pro Cutter when through working each day.

TROUBLESHOOTING:

Problem:

1. Pro Cutter will not operate using remote control or manual switch.

Solution:

Make sure there is power to machine. Check fuse.

-
2. Cutter will operate using manual switch but not remote control.

Check battery in remote control. Be sure antenna & receptacle aren't damaged.

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3. There's a "clicking" noise but Pro Cutter won't run. Power light does not illuminate.

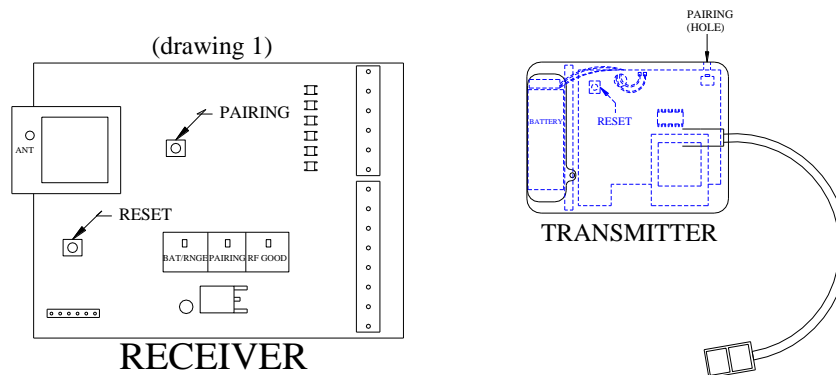
Fuse is blown.
Replace fuse (4 amp, 250 v. fast blow).

NOTE: The remote control is powered by a common 9-volt battery which will require replacement on occasion. Remove plastic case from Velcro pouch. On top of plastic case, remove small screw to remove battery door. Unsnap battery and replace.

PAIRING (programming):

At times it is desirable to operate multiple Pro Cutters' in close proximity without the remote controls' cross-communicating. This requires a simple PAIRING procedure to shift the radio package to an alternate frequency. The following procedure outlines the pairing (programming) process which requires opening the Pro Cutter drive box **with**

power applied. Care must be taken to avoid contact with live circuits or electric shock may occur. Show Pro Industries accepts no responsibility for damage or injury resulting from contact with live electrical circuits. **PROGRAM RADIOS AT YOUR OWN RISK.**



- 1) Begin by opening the lid on the Pro Cutter drive box. This is accomplished using a blade screw driver on the $\frac{1}{4}$ turn lid latch. Once open, the radio receiver is located in the top-center of the control box (drawing 1). Using drawing 1 as a guide, identify the black PAIR button located near the center of the receiver circuit board.
- 2) Remove the wireless remote control from the canvas/Velcro pouch. Using drawing 2 as a guide locate the pairing hole in the upper left corner of the remote control case. A small pin will be required to access the pairing switch.
- 3) With power applied to the Pro Cutter drive box, press and release the black PAIR button on the radio receiver board. A yellow PAIR indicator will illuminate on the receiver board indicating the receiver is searching for the remote control. Next, press and release the PAIR button on the remote control using a small pin. You should now see the yellow PAIR indicator flash and the green RF GOOD indicator illuminate. Wait for both indicators to turn off before pressing any buttons or switches.
- 4) Pairing is complete once both indicators turn off. Test for proper operation by pressing the remote control RUN buttons. The green RF GOOD indicator should illuminate each time a RUN button is pressed. Close Pro Cutter lid being careful to fully engage lid latch to prevent possible damage from water/dirt entering control box. Reinstall remote control case into Velcro pouch.

LIMITED WARRANTY

The following warranty is in lieu of all other warranties, expressed, implied or statutory, including but not limited to any implied warranty of merchantability or fitness for a particular purpose.

All new products sold by Show Pro Industries are warranted against defects in material and workmanship for two (2) years from the date of original purchase. During the warranty period, Show Pro Industries will repair, or at its option replace without charge, any SPI product (excluding normal wear items), providing it is returned to the factory, shipping prepaid, and is proven to be defective during the subsequent factory inspection. The warranty period for products repaired after expiration of new product warranty, as stated above, is limited to the repair portion and is valid for 90 days from date of reshipment to customer. All warranties, expressed or implied, are void if product is damaged by accident, misuse or modification in the absence of written authority from Show Pro Industries.

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