

HOW TO USE FAST START

Once you have Fast Start set up and operational, all you have to do is ride into the box and push the RESET button on the timing module to initialize the system for your next run. The display will present the message “Ready to Ride” after the timing module determines that all functions are normal.

Following a run, or if you accidentally break the barrier beam, simply push the RESET button to reinitialize the system.

By pushing the FINISH button on the timing module, an associate can record the end of your run. The Fast Start module will display both the barrier times and the event time until you push the RESET button.

When the rider breaks a barrier the timing module will calculate and display the elapsed time between the steer and the rider. A plus (+) sign in front of the time value indicates that the rider broke out ahead of the steer. A minus (-) sign in front of the time value indicates that the rider was behind the steer.

If you are in a low ambient light condition, pushing the BACKLIGHT button on the module will cause the display to illuminate. The back-light will stay on for 15 seconds.

The Box — The depth of the box at almost all US ropings is 16 feet.

The Score — The score will vary from roping to roping. The producer will set the score length. You can contact the producer to find out the box depth and score length for a particular event. Then, set up your arena for those dimensions and practice with confidence. In normal practice you should not set the score length less than 10 feet.

The Start — Fast Start shows you how hard your horse breaks and what your reflexes are so that you can get the best start on different score length and all types of cattle.

Reaction Time — You are looking for a barrier time of between -0.08 and -0.12 seconds. This will give you a good start with a margin for error. After using Fast Start for a while, you will lower your barrier times and have fewer break outs.

Rev Date 02-07-08

FAST START

COMPETITION BARRIER TIMING SYSTEM

OPERATION MANUAL

TEAM ROPING PROGRAM

BARREL RACING PROGRAM

PRODUCER'S SPECIAL FEATURES

REPRESENTED AND ENDORSED BY:

Denny Watkins — 19 Time National Final Rodeo Qualifier
— 2 Time National Final Rodeo Champion

CONTACT INFORMATION:

Denny Watkins — 661-587-4288

Fast Start Roping — 707-725-9898

Web Site — www.faststartroping.com

Fast Start Roping — 606 L Street — Fortuna, CA 95540

WHAT IS FAST START?

Fast Start Competition Barrier Timing System is an electronic system which uses photoelectric sensors of the same style used in most major jackpot ropings. However, there is one major difference: Fast Start will tell you your time on the barrier. Fast Start will tell you the difference between the time the steer breaks its barrier and the time the rider breaks the barrier. Fast start will tell you, in hundredths of a second, how late you are or by how much you broke out.

Fast Start is designed for use in the practice pen and the arena. Practice using Fast Start will help you to develop a good mental and physical reflex so that you can get a fast start on all types of cattle.

SETTING UP FAST START

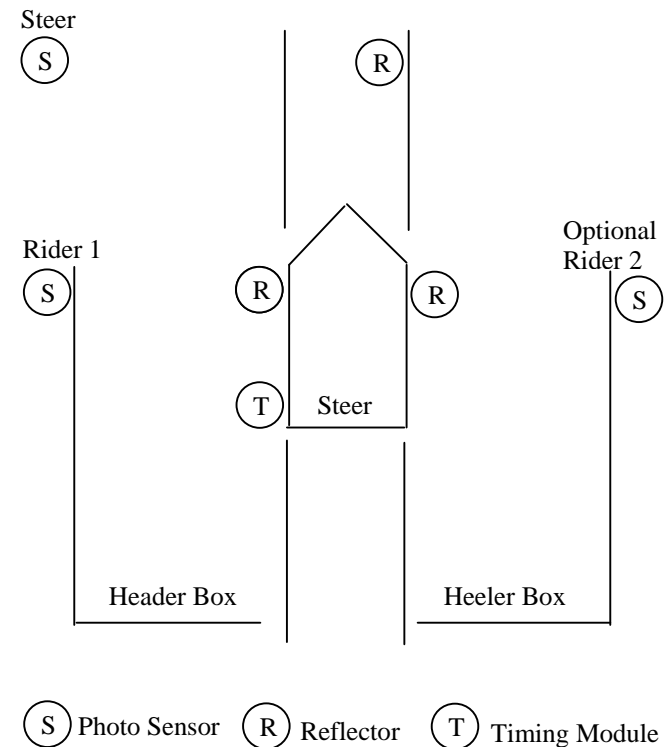
Fast Start is a hard-wired system which can be set up in any practice pen or arena. I use a steer run out shoot in my practice pen. This makes it easier to set up the system and it is also the same configuration that is used at all jack pot ropings. I don't want my horse to see anything different at a jack pot than he sees in the practice pen. However, you can set up the system without a run out shoot as long as the distance across the boxes is less than 30 feet.

I suggest that you mount the timing module on the steer shoot so that you can ride in, check your time, and then reset the system for the next run. However, the timing module may be placed at any convenient location. Longer cables are available if required.

Basic Instructions:

1. Attach photoelectric sensors to tripods.
2. Attach reflectors.
3. Position photo sensor tripods. The maximum distance between a sensor and its reflector is 30 feet.
4. Connect threaded connector end of signal cables to sensors.
5. Connect the battery cable's push on connectors to the battery. Mate the red connector to the battery's red terminal.
6. Connect other end of signal cables to the timing module.
 - a. Steer cable connects to "Steer" connector on module.
 - b. Header cable connects to "Rider 1" connector on module.
 - c. Heeler cable connects to "Rider 2" connector on module.
 - d. Power cable connects to "Power" connector on module.

7. When power is applied, the timing module becomes active and will display the message "Team Roping Mode Selected." This message will be displayed for two seconds.
8. Push RESET button on module to power the photo sensors. A display message will indicate if a sensor beam is out of alignment. Align the sensor light beam with the reflector by pointing the beam at the reflector and positioning the sensor until the yellow light on the back of the unit turns on. On a bright day you may have to shade the indicator with your hand in order to see it.
9. Push RESET button again to test beam alignment. Repeat step 8 if required.
10. When all barrier beams are aligned the display will present the message "Ready to Ride." Enjoy the ride.



BARREL RACING SUPPLIMENT

In addition to the normal Team Roping barrier monitoring and event timing, Fast Start may be configured to time Barrel Racing events. In this configuration only one barrier is used to mark both the start and finish line of the race.

SETTING UP FOR BARREL RACING

It is recommended that you first read the general Fast Start Operation Manual in order to become familiar with the equipment.

Barrel Racing Connection Instructions:

1. Attach a photoelectric sensor to a tripod.
2. Attach a reflector. This reflector may be attached to a tripod.
3. Position the sensor and reflector on the start/finish line. The maximum distance between the sensor and reflector is 30 feet.
4. Connect threaded connector end of signal cable to sensor.
5. Connect the battery cable's push on connectors to the battery. Mate the red connector to the battery's red terminal.
6. Connect other end of signal cable to the "Steer" connector on the module.
7. To enter the Barrel Racing program push and hold the RESET button while connecting the power cable to the "Power" connector on the module. When power is applied in this manner, the timing module becomes active and will display the message "Barrel Racing Mode Selected." This message will be displayed for two seconds.
8. Push RESET button on module to power the photo sensor. A display message will indicate if the sensor beam is out of alignment. Align the sensor light beam with the reflector by pointing the beam at the reflector and positioning the sensor until the yellow light on the back of the unit turns on. On a bright day you may have to shade the indicator with your hand in order to see it.
9. Push RESET button again to test beam alignment. Repeat step 8 if required. When the barrier beam is aligned the display will present the message "Ready to Ride" Enjoy.
10. When the barrier is first broken the event timer will start. There is a short delay before the barrier becomes active again, after which breaking the barrier will end the event and the elapsed time will be calculated and displayed.

BARREL RACING SUPPLIMENT

In addition to the normal Team Roping barrier monitoring and event timing, Fast Start may be configured to time Barrel Racing events. In this configuration only one barrier is used to mark both the start and finish line of the race.

SETTING UP FOR BARREL RACING

It is recommended that you first read the general Fast Start Operation Manual in order to become familiar with the equipment.

Barrel Racing Connection Instructions:

1. Attach a photoelectric sensor to a tripod.
2. Attach a reflector. This reflector may be attached to a tripod.
3. Position the sensor and reflector on the start/finish line. The maximum distance between the sensor and reflector is 30 feet.
4. Connect threaded connector end of signal cable to sensor.
5. Connect the battery cable's push on connectors to the battery. Mate the red connector to the battery's red terminal.
6. Connect other end of signal cable to the "Steer" connector on the module.
7. To enter the Barrel Racing program push and hold the RESET button while connecting the power cable to the "Power" connector on the module. When power is applied in this manner, the timing module becomes active and will display the message "Barrel Racing Mode Selected." This message will be displayed for two seconds.
8. Push RESET button on module to power the photo sensor. A display message will indicate if the sensor beam is out of alignment. Align the sensor light beam with the reflector by pointing the beam at the reflector and positioning the sensor until the yellow light on the back of the unit turns on. On a bright day you may have to shade the indicator with your hand in order to see it.
9. Push RESET button again to test beam alignment. Repeat step 8 if required. When the barrier beam is aligned the display will present the message "Ready to Ride" Enjoy.
10. When the barrier is first broken the event timer will start. There is a short delay before the barrier becomes active again, after which breaking the barrier will end the event and the elapsed time will be calculated and displayed.

PRODUCER'S UNIT SUPPLIMENT

Producers of roping events face several problems not encountered in the training arena. Examples would be the length of cable runs and the rapid pace of event cycling. These, among other issues, are addressed in this supplement. It is recommended that you first read the general Fast Start Operation Manual in order to become familiar with the equipment.

NOTES REGARDING PRODUCER UNITS

1. Producer timing units are distinguished by both the large FINISH button at the left of the front panel and by the program version number (beginning with "P") displayed at unit power on.
2. In order to accommodate special features, connections internal to the timing module have been modified. This requires the use of a special "producer cable" to connect to the sensors. (Part number FS144 is 250 in length; part number FS145 is 3 feet in length.) The male end of the multi-headed cable plugs into the timing module's connectors, while the sensor cables plug into the female end of the cable. Plugging sensor cables directly into the module will cause the system to not work properly.
3. Following the completion of a timed event, the timing module automatically resets to enable the next event. Time values for the previous event will remain in the display until the next event actually starts. Power remains on the sensors at all times.
4. Despite the fact that the module automatically resets between events, the RESET button will operate in the expected manner.
5. The large FINISH button is supplied for convenience and ease of operation.
6. A small box with approximately six feet of two-wire cable is attached to the producer cable. This box contains relay contacts which may be used to control a "break-out" alarm horn or other signaling device. These contacts are rated at 5A up to 250Vac.

PRODUCER'S UNIT SUPPLIMENT

Producers of roping events face several problems not encountered in the training arena. Examples would be the length of cable runs and the rapid pace of event cycling. These, among other issues, are addressed in this supplement. It is recommended that you first read the general Fast Start Operation Manual in order to become familiar with the equipment.

NOTES REGARDING PRODUCER UNITS

1. Producer timing units are distinguished by both the large FINISH button at the left of the front panel and by the program version number (beginning with "P") displayed at unit power on.
2. In order to accommodate special features, connections internal to the timing module have been modified. This requires the use of a special "producer cable" to connect to the sensors. (Part number FS144 is 250 in length; part number FS145 is 3 feet in length.) The male end of the multi-headed cable plugs into the timing module's connectors, while the sensor cables plug into the female end of the cable. Plugging sensor cables directly into the module will cause the system to not work properly.
3. Following the completion of a timed event, the timing module automatically resets to enable the next event. Time values for the previous event will remain in the display until the next event actually starts. Power remains on the sensors at all times.
4. Despite the fact that the module automatically resets between events, the RESET button will operate in the expected manner.
5. The large FINISH button is supplied for convenience and ease of operation.
6. A small box with approximately six feet of two-wire cable is attached to the producer cable. This box contains relay contacts which may be used to control a "break-out" alarm horn or other signaling device. These contacts are rated at 5A up to 250Vac.