

# lobster elite™

Grand IV and V Owner's Manual



built for life®

place  
stamp  
here



**LOBSTER®**

7340 Fulton Avenue  
North Hollywood, CA 91605

## TO OUR CUSTOMERS

**Thank you** for purchasing a Lobster ball machine. Please read this owner's manual in its entirety before operating your Lobster ball machine. These instructions were written to ensure your safety and to protect the machine.

## CHECK FOR DAMAGE

Inspect your machine for damage. The machine may appear undamaged externally, but internal parts could be damaged. Test all of the machines functions.

## SAVE THE ORIGINAL SHIPPING BOX

The original box and inserts should always be used if it is necessary to ship the machine back to the factory.

**If you have questions about your ball machine, DO NOT contact your dealer; please call Lobster Sports directly at 800.210.5992**

Serial Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

## ! WARNING

TO AVOID INJURY:

- Keep face out of ball path - balls can shoot out from opening at any time.
- Use only for tennis practice with conventional tennis balls.
- Turn off the machine when leaving it unattended or before performing maintenance tasks.
- Never place body parts or objects into machine.
- Never operate with parts removed.
- Never add balls while machine is running.
- Never put wet tennis balls in machine.



7340 Fulton Avenue  
North Hollywood, CA 91605  
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www.lobstersports.com  
sales@lobstersports.com  
support@lobstersports.com



### WARRANTY REGISTRATION - Fill out info below, tear at perforation and mail back to validate warranty. (\*Required Fields)

Machine Serial Number\* \_\_\_\_\_

Name\* \_\_\_\_\_ Email\* \_\_\_\_\_

Mailing Address\* \_\_\_\_\_ City\* \_\_\_\_\_ State\* \_\_\_\_\_ Zip\* \_\_\_\_\_

Phone\* \_\_\_\_\_

Purchase Date\* \_\_\_\_\_ Where Purchased\* \_\_\_\_\_

**How did you learn about Lobster?** (circle) Quality Design Price Reputation Previous Customer Portability Better Features  
 Dealer Website \_\_\_\_\_ Tennis Magazine Tennis Week Magazine Other Magazine/Search Engine \_\_\_\_\_  
 Dealer \_\_\_\_\_ Friend \_\_\_\_\_ Pro \_\_\_\_\_ MSN \_\_\_\_\_ Yahoo \_\_\_\_\_ Google \_\_\_\_\_

**What attracted you to this product?** (circle) Quality Design Price Reputation Previous Customer Portability Better Features  
 Income (circle) \$40-60K \$60-80K \$80-100K \$100-\$120K \$120-140K \$140-\$160K \$160-\$180K \$180-200K \$200K+  
 Age (circle) 15-25 25-35 35-45 45-55 55-65 65-75 75-85 85+

**Occupation** \_\_\_\_\_

**OPTIONAL EXTENDED WARRANTY\*\*** Please send in a separate envelope within 60 days of purchase.

Please select from the following: Credit Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_  
 1 Year .....\$65 Verification Code (last 3 digits in signature bar) \_\_\_\_\_ Select (circle) Visa Mastercard Discover Card  
 2 Years .....\$110 Authorization Signature \_\_\_\_\_  
 3 Years .....\$149

Lobster Sports warrants each Lobster Elite machine purchased will be free from DEFECTS IN MATERIAL AND WORKMANSHIP for the extended period specified above past the normal 2 year limited warranty. The extended warranty period will run consecutively from the warranty period determined at time of purchase. **It does not cover parts worn under normal use**, specifically the battery and the server wheels.  
\*\*Extended warranties only apply to machines located in the United States.

## MAINTENANCE

### Storage

Never store the machine outside. Exposure to rain and snow will shorten machine life. Store the machine in a clean, dry location with the Main Power off. Never store the machine in a closed car trunk where temperatures can reach 180 degrees. Extreme temperatures and conditions can affect the machine's electronic board and battery. Exposure to rain and snow will damage the electronics.

### Cleaning

Turn Main Power OFF when cleaning the machine. Outside of machine may be wiped down with a mild detergent. Inside of machine may be vacuumed to remove tennis ball fuzz. The Lobster storage cover is ideal to protect your machine from the elements.

### Ball Consistency

The consistency of ball throws is dependent on the consistency of the tennis balls you use. Consistent balls will produce consistent ball throws. A mixture of new and old balls will produce inconsistent ball throws. Pressureless balls are recommended for use with a ball machine. For more information, call Lobster at 800.526.4041.

## LIMITED WARRANTY

Lobster Sports warrants that each Lobster Sports ball machine purchased will be free from defects in material and workmanship for 2 years from the date of purchase except for the battery and server wheels which are warranted for 6 months. Demonstration models and reconditioned machines have a 1 year warranty. Said warranty to be determined by Lobster Sports at time of purchase. Any part of ball machine which proves to be defective in material or workmanship within the 2 year warranty period will be repaired or replaced at Lobster Sports' option with a new or functionally operative part. Warranty extends only to the original customer and may be enforced only by such person.

This warranty does **not** cover the following conditions: A) Damage resulting from misuse, neglect, alteration, accidents, tampering, abuse, fire, war, insurrection, civil disorder, flood, acts of God or any other casualty; B) Failure of Customer to properly follow operating instructions provided by Lobster Sports at time of delivery; and C) Damage caused by use on circuits or voltages other than indicated on the applicable nameplate.

**This limited warranty is in lieu of all other express warranties. Any implied warranties of merchantability and fitness for a particular purpose shall coincide in duration with the 2 year limited warranty. The exclusive remedy of the Customer hereunder shall be repair or replacement as stated above. Under no circumstances shall Lobster Sports be liable to the Customer or any other person for incidental or consequential damages of any nature, including, without limitation, damage for personal injury or damages to property; and however occasioned, whether alleged as resulting from breach of warranty by Lobster Sports, the negligence of Lobster Sports.**

No agent, employee or representative of Lobster Sports or any other person is authorized to modify this warranty in any respect. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state.

This limited warranty is void unless Customer completes and returns the attached **warranty response form** to Lobster Sports within 30 days of receipt of the ball machine.



## MACHINE SETUP

### Intended Use

This tennis ball machine is intended to be used in a dedicated tennis facility. For safety reasons, players should stand on the opposite side of the tennis net at a minimum of 35 feet away from the machine. This tennis ball machine is designed to throw tennis balls only.

### Unpack and Assembly

Remove the machine from the box. Keep the box along with the packing materials in case the machine needs to be shipped back to the factory.

#### Assembly:

- Detach the hopper.
- Flip the hopper and reattach by pushing the hopper on to the case knobs, starting with the front knob (side furthest from handle), then attach the hopper to the back knob.
- **Do not remove the wire deflectors.**
- Confirm that the Main Power switch is in the ON position. The main power switch can be found on the left side of the metal box directly below the control panel. There is no need to remove the red case to find this switch.

### Handle Operation

To raise the handle, simply pull up on the grip until it locks in place. To fold the handle, move the switches on the inside of the hinges to the unlock position and apply light pressure to the upper section of the handle until it begins to fold. The handle can now be lowered into its storage position.

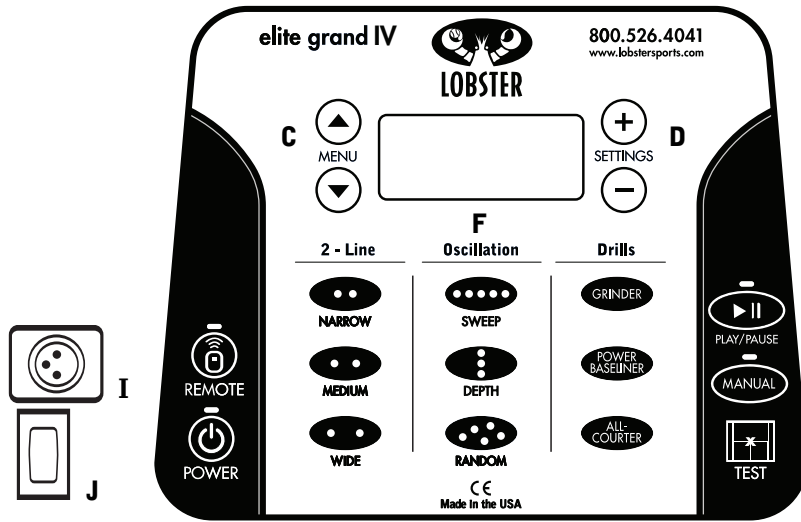
### Transporting

The handle is provided to push or pull the machine. The lower part of the handle is designed to easily go up/down stairs but, it can also wear the metal and cause premature failure if care is not used. Be aware of steps or rough surfaces that may bend or damage the underside of the machine.

To prepare the machine for transport in your vehicle, invert the hopper to cover the machine and fold the handle. The machine weighs approximately 46 lbs and may be lifted into a vehicle by one or two people. Use the molded handholds on the underside of the machine to lift and carry the machine.



## ELITE GRAND IV CONTROL PANEL



- A. **Power Button** – Push and hold the POWER button to turn the machine on. Battery level is shown at startup. Both the horizontal and vertical motors will perform functional checks to calibrate the machine when it is turned on or off.
- B. **Remote** – Push this button to turn on/off the remote control receiver.
- C. **Menu Buttons** – The up/down buttons are used to scroll through the menu options to be selected and adjusted. A cursor on the LCD will highlight the current selection.
- D. **Settings** – The +/- buttons are used to adjust a highlighted option on LCD screen.
- E. **Play/Pause** – The Play button is used to begin the play of a selected function and to pause the feed.
- F. **Presets** – The nine buttons in the center of the control panel are used to select the play mode. Menu and Settings buttons are used to select and adjust shot parameters. After the shot parameters are satisfactory, press play to start.
- G. **Manual** – Machine will continuously throw a certain shot to a specific location.
- H. **Test** – Used to align your machine for proper ball placement on the court.
- I. **Charger Connector** – Used to charge your battery.
- J. **Main Power Switch** – Main power cut off. If you plan to not use your machine for one month or longer, Lobster recommends that you turn this switch off. (This switch is located on the left side of the metal box directly below the control panel)

## TROUBLESHOOTING

### Machine Doesn't Power On

The main power switch may be off. The battery may need to be charged. The battery wires may be disconnected or loosened.

- Make sure the MAIN POWER switch on the machine is in the off position and ensure there are no balls in the machine.
- Undo the four screws on the control panel and gently pull back. (Be careful not to touch the electronic board directly)
- Follow the red and black wires from the battery terminals to the control board. If they are loose, reconnect.

**If you have questions about your ball machine, DO NOT contact your dealer; please call Lobster Sports directly at 800.210.5992**

### Machine Error

The electronics are programmed to help the user diagnose his/her machine. Error messages will appear on the LCD screen when the machine is turned on. If there is no obvious problem, turn the machine off and back on again to check error message. If the error message continues, call Lobster Customer Service at 800.526.4041.

## CUSTOMER SERVICE

Since 1970, Lobster Sports has been dedicated to providing outstanding customer service. To this end, we invite our customers to contact our Customer Service Department at **800.526.4041** anytime between 8:00am - 4:30pm PST, Monday through Friday. After hours, please leave a voice message or email us at [support@lobstersports.com](mailto:support@lobstersports.com)

### Shipping Damage

If an order arrives with shipping damages, contact Customer Service to coordinate sending a replacement. If a replacement part can resolve the issue, Lobster will ship the part immediately. If not, a damage call tag will be issued. Upon pick up of the damaged machine, the customer must call in the pick-up tracking number and a replacement will be shipped immediately.

### Mis-Shipments

Lobster Sports maintains the highest manufacturing and shipping quality standards and strives for 100% accuracy. However, in the event an order is not correct please contact Customer Service to rectify the situation.

## CHARGING INSTRUCTIONS

### Charging the Battery with the Fast Charger or Premium Fast Charger

Trickle charge technology ensures the battery will not be overcharged and can be left connected indefinitely.

- For the **Fast Charger**, connect the cord into the charger jack on the left of the control panel. Plug the charger into a live electrical outlet. The battery will be charged in 3-9 hours.
- For the **Premium Fast Charger**, connect the cord into the charger jack on the left of the control panel. Plug the charger into a live electrical outlet. The battery will be charged in 1-3 hours.
- An orange light on either charger indicates the battery is charging.
- A green light indicates the battery is fully charged.
- For optimal capacity, charge the battery with the fast charger after each use.

### Battery Capacity

Battery level is shown when the machine starts up as Full, High, Medium, or Low! When the machine is not in use (i.e. during the winter season or when in storage) charge the machine **every month**. Before storing the machine, ensure the battery is fully charged and the main power switch is off in the down position. Never let the machine go uncharged for more than one (1) month. The most common reason for a dead battery is a dead AC outlet. Ensure the machine is connected to a live AC outlet and is receiving a charge. The most common reason for shortened battery capacity and life is chronically undercharging the machine.





FOR UNLIMITED PLAY YOU MAY PURCHASE LOBSTER SPORTS' EXTERNAL AC POWER SUPPLY. Please call Customer Service at 800.526.4041 or visit [www.lobstersports.com](http://www.lobstersports.com)

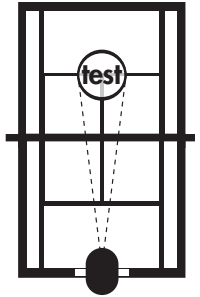


## ELITE GRAND IV OPERATING INSTRUCTIONS





### Court Placement / Test Button

Your Lobster Elite Grand IV is a computerized tennis machine and has been designed to keep the ball in the full singles court.


- Ensure that the main power switch is in the up or on position.
- Start by placing the machine with the white Line Marker positioned over the baseline, at the court's center mark.
- Power on  the machine and allow it to go through a self test.
- Place one tennis ball in the hopper. Push the  TEST button. One tennis ball should be thrown over the net to land within a 2 foot area of the opposite side of the court where the service and center lines converge, just as depicted by the TEST button and the diagram to the right.
  - If the test ball lands outside of the 2 foot radius, long or short use the  and  SETTINGS buttons to adjust the distance in .5 foot increments. If the ball should fall outside of the area left or right, nudge the front of the machine slightly to the left or right, as needed. Retest and make adjustments as necessary.
- Once the test is complete, press the manual button or one of the nine preset buttons in the center of the control panel to choose mode of play, then press the play button.



### Manual

Press the MANUAL Button to practice one particular shot repetitively. The machine will pause while you make your adjustments. Use  /  Menu buttons to select location and shot parameters. Use  /  SETTINGS buttons to increase or decrease value of the selected menu option.




- Speed – Choose from 35 to 80 MPH in 5 mph increments.
- Elevation – Adjust elevation between 2 and 80 degrees in 1 degree increments to change depth of the ball thrown on the court.
- Spin – Increase and decrease top and back spin up to three levels.
- Angle – Choose position along baseline. 0 is center court with positive numbers moving to the right and negative numbers moving to the left.
- Feed – Adjust between 2-9 second intervals, or scroll down to random setting.

When you are satisfied with your adjusted settings press the  Play/Pause button to start your session.






## OPERATING INSTRUCTIONS CONTINUED

### Presets

Main preset options are selected by pressing one of the nine buttons in the center of the control panel. The machine will automatically pause until you are satisfied with the settings. Press the  play/pause button to begin play. Use  menu buttons to select location and shot parameters. Use  SETTINGS buttons to increase or decrease value of the selected menu option. **PLEASE NOTE:** To keep all shots in the court, some combinations are not available in conjunction with each other.




### 2-LINE

-  **Narrow** – practice forehand and backhand strokes at the center of the court.
-  **Medium** – practice forehand and backhand strokes midway between center court and sideline.
-  **Wide** – Practice forehand and backhand strokes at the sidelines.

Within each button above, your options will be:

- Speed – Choose from 50 to 80 MPH in 5 mph increments.
- Spin – Increase and decrease top and back spin up to three levels.
- Depth – Choose from Row A (Deep), Row B (Mid), Row C (Short) or Random.
- Feed – Adjust between 2 - 9 second intervals, or scroll down to random.

### OSCILLATION

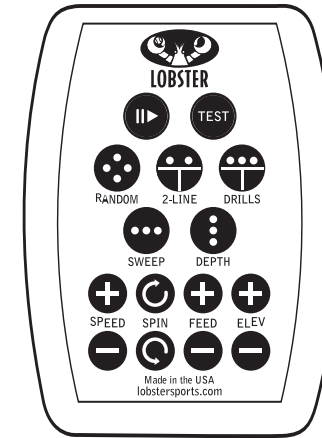
-  **Sweep** – throw balls randomly across the width of the court. Shot parameters include
  - Depth – Short, Mid, Deep or Random.
  - Speed – Choose from 45 to 80 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Feed – Adjust between 2-9 second intervals, or scroll down to random.
-  **Depth** – balls are thrown randomly from short to deep.
  - Position – Choose balls to be thrown on court to the Left, Center, or Right.
  - Speed – Choose from 45 to 75 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Feed – Adjust between 2-9 second intervals, or scroll down to random.
-  **Random** – machine will randomly throw balls on the court using variations of speed, spin and trajectory.
  - Feed – Adjust between 2-9 second intervals, or scroll down to random.




## OPERATING INSTRUCTIONS - REMOTE CONTROL

### Remote Control

The remote consists of fifteen buttons and allows you to operate many of the functions on your ball machine from a distance.



- Press the  REMOTE button located on the control panel to activate the remote. When the LED is lit the machine will accept commands from your remote controller.
  - **PLAY/PAUSE** button will start and stop the machine at any time.
  - **TEST** - Allows you to calibrate your machine.
  - **RANDOM** - Press button to activate the fully random function.
  - **2-LINE** - Press button multiple times to scroll through the narrow, medium, and wide settings for the 2-line functions.
  - **DRILLS** - Press button to scroll through the pre-programmed drills.
  - **SWEEP** - Press multiple times to scroll through the short, mid, deep and random settings for the sweep function.
  - **DEPTH** - Press button multiple times to scroll through short, mid, deep and random settings for the depth function.
- The 8 black buttons are used to change shot parameters on the fly for the presets.
  - **Speed** – Adjust the ball speed for 2-line, sweep, depth, and manual presets.
  - **Spin** – Adjust the top or bottom spin for 2-line, sweep, depth, and manual presets.
  - **Feed** – Adjust the ball interval for all settings.
  - **Elevation** – Adjust the elevation for 2-line, manual, and test function.

Using the remote while a drill is running will cause the next shots parameters to change temporarily. Doing so may cause shots to land in unplayable areas.



## ELITE GRAND V OPERATING INSTRUCTIONS CONTINUED

5. Selecting and running a drill can be done from the Overall Program Screen:

- The top line displays your Program number. You can change the Program number from 1-6 by highlighting the top line with the menu buttons  $\uparrow$ / $\downarrow$  and adjusting the number with  $\oplus$ / $\ominus$  settings buttons.
- Line 2 will show you the court location of each ball thrown. One number for each ball.
- Line 3 allows you to edit or view the settings of an existing shot in the Program.
- Pressing  $\odot$  at any time on this screen will run the Program.

OVERALL PROGRAM SCREEN  
 PROGRAM # : 1  
 LOCS 3 4 5 1 6 3  
 SHOT: 2 EDIT : NO  
 PUSH PLAY TO RUN

### Editing An Existing Program

Once you have created a program you may want to adjust or completely redesign any aspects of the program.

- If you are not already in the program function, press the **PROGRAM** button to display the overall Program screen.
- First use the  $\oplus$ / $\ominus$  settings buttons to select the program you wish to adjust.
- Next use the menu buttons  $\uparrow$ / $\downarrow$  to highlight SHOT then adjust the number to reflect which shot in the sequence you wish to adjust (1st, 2nd, 5th...)
- Highlight edit and press the  $\oplus$  button to change to a yes to take you to the Select Location Screen.
- The current location of this shot is now displayed in the upper right corner. If you are satisfied with the location, press the same number to select it again and you will advance to the shot parameters screen which will display your current settings.
- If you chose another location, the defaults will reset.
- You can remove the shot from the drill by pressing the  $\ominus$  button. This will return you to the overall program screen and the drill will run with one less shot.

OVERALL PROGRAM SCREEN  
 PROGRAM # : 1  
 LOCS 3 4 5 1 6 3  
 SHOT: 2 EDIT : NO  
 PUSH PLAY TO RUN

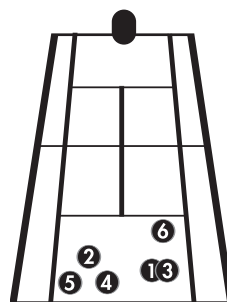
SHOT LOCATION SCREEN  
 P#1 SHOT#2 LOC 4  
 Press a location  
 To prgm shot, or  
 Press - to erase

## OPERATING INSTRUCTIONS - DRILLS

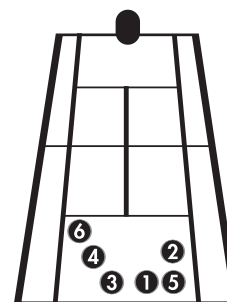
### Drills

Each of the six custom designed court drills consists of six sequential shots in a designated pattern combining court location, ball speed, and spin. To adjust the difficulty, the feed rate can be set to a fixed 2 - 9 seconds or a random setting that will constantly change the feed rate. Use the  $\oplus$ / $\ominus$  SETTINGS buttons. Low feed settings will have a short pause between cycles.

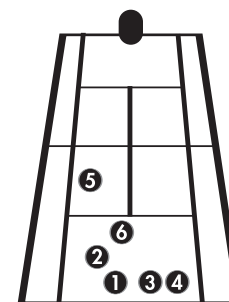
- GRINDER** – Six ball drill that utilizes the full back court with different types of spin.
  - Press Grinder twice to select **“MOON BALLER”** drill - Six ball drill that utilizes a high arc over the net with moderate to heavy top spin.
- POWER BASELINER** – Six ball drill that utilizes the full back court with little spin and more ball speed.
  - Press Power Baseliner twice to select **“SLICER”** – Six ball drill with backspin or underspin that utilizes a low arc over the net.
- ALL-COURTER** – Six ball drill that utilizes both the front and back court with some top spin and less ball speed.
  - Press All Courter twice to select **“LEFTY”** drill - Six ball drill that simulates strong forehand groundstrokes and strong backhand volleys.



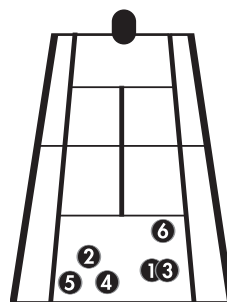
Grinder



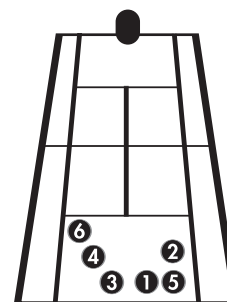
Power Baseliner



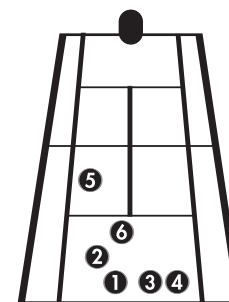
All-Courter



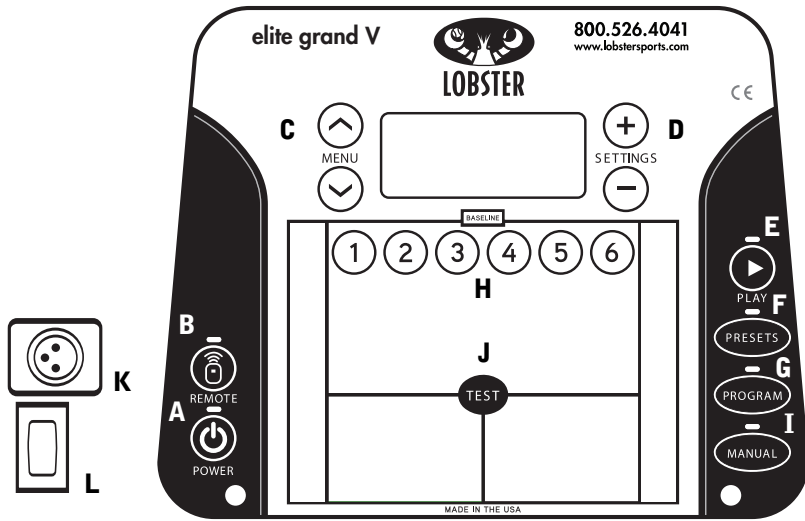
Moon Baller



Slicer



Lefty



- A. Power Button** – Push and hold the POWER button to turn the machine on. Battery level is shown at startup. Both the horizontal and vertical motors will perform functional checks to calibrate the machine when it is turned on or off.
- B. Remote** – Push this button to turn on/off the remote control receiver.
- C. Menu Buttons** – Used to scroll through the menu options to be selected and adjusted. A cursor on the LCD will highlight the current selection.
- D. Settings** – Used to adjust a highlighted option on LCD screen.
- E. Play/Pause** – Press to play and pause the machine.
- F. Presets** – Press button multiple times to cycle through the preset modes. Two-line, Sweep oscillation, Depth oscillation, Fully Random and pre-programmed Drills.
- G. Program** – Press to create customized drills.
- H. 1-6 Numbered Buttons** – Used to select desired position for ball to land in program mode. (More detailed information can be found in the program section.)
- I. Manual** – Machine will continuously throw a certain shot to a specific location.
- J. Test** – Used to align your machine for proper ball placement on the court.
- K. Charger Connector** – Used to charge your battery.
- L. Main Power Switch** – Main power cut off. If you plan to not use your machine for one month or longer, Lobster recommends that you turn this switch off. (This switch is located on the left side of the metal box directly below the control panel)

**Program**

The Program function allows you to create your own drills and set up your own training exercises. You may create sequences of shots with anywhere from 1 to 6 balls that will cycle. This allows for many more combinations that will always give you new challenges.

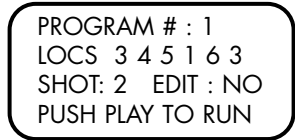
There are limitations to what the machine can do...please read this carefully.

- The serving wheels can speed up faster than they can slow down. Fast shots followed by slow shots or drastic changes in spin will produce shots out the back of the court if used with fast feed rates. If you wish to use faster feed rates, keep your changes in speed and spin incremental. A good guide is not to change the speed more than your feed rate times 5 in miles per hour (treat each level of spin as 5 MPH).

**As an example :** A feed rate of 4 sec will let you have up to 20mph of change or 4 levels of spin.

- Certain combinations of speed and spin will not stay within the court. If a setting will not produce a viable shot, the display will blink to tell you that the shot is not possible and remain at the previous setting.
- When you have filled up the 6th shot in a program, selecting next will automatically take you to the overall program screen.

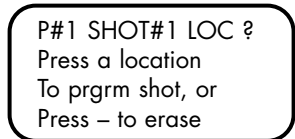
OVERALL PROGRAM SCREEN



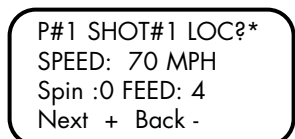
**Create Your First Personal Program**

1. Press the PROGRAM button (PROGRAM)
2. The screen will prompt you to select a location for your first shot. Press any of the ① ② ③ ④ ⑤ ⑥ buttons to advance to the shot parameters screen.
3. The machine will be programmed to throw one ball to the location selected. You may now adjust the shot parameters for this shot:
  - Speed – Chose from 55 to 80 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Feed – Adjust between 2 - 9 second intervals, or scroll down to random.
4. When the shot is satisfactory, use the menu buttons (▲)/(▼) to highlight the "Next + Back -" line. Press (⊕) to choose the location and shot parameters for the next shot in your drill or (⊖) to return to overall program screen.

SHOT LOCATION SCREEN



SHOT PARAMETERS SCREEN



\*will display your selected location

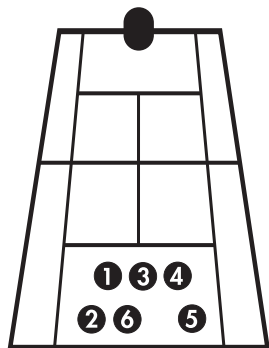


## ELITE GRAND V COURT DRILL INSTRUCTIONS CONTINUED

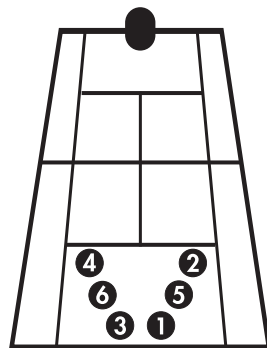
**Beginner** – Six ball drill to help beginners improve and build confidence.

**Intermediate** – Six ball drill that will help intermediates improve their court coverage and execute a variety of shots.

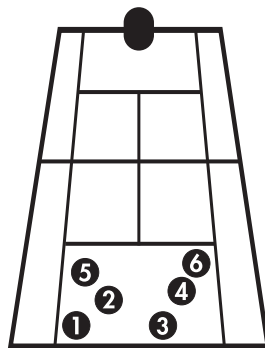
**Advanced** – Six ball drill for advanced players to develop higher shot tolerance and learn to quickly identify 'opportunity' balls that can be attacked.



Beginner



Intermediate

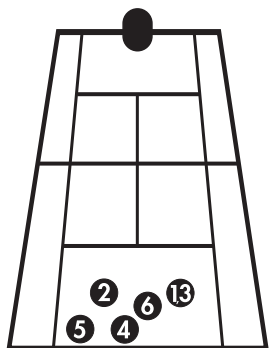


Advanced

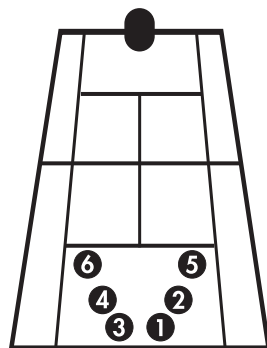
**Moon Baller** – Six ball drill that utilizes a high arc over the net with moderate to heavy top spin.

**Slicer** – Six ball drill with backspin or underspin that utilizes a low arc over the net.

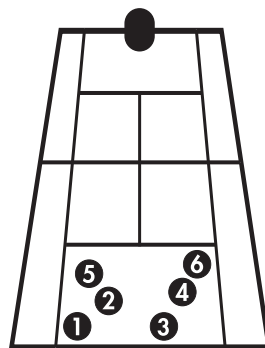
**Lefty** – Six ball drill that simulates strong forehand groundstrokes and strong backhand volleys.



Moon Baller



Slicer







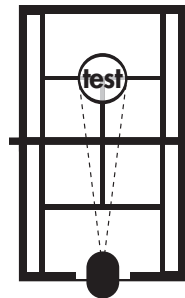
Lefty

## ELITE GRAND V OPERATING INSTRUCTIONS





### Court Placement / Test Button

Your Lobster Elite Grand V is a computerized tennis machine and has been designed to keep the ball in the full singles court.


- Ensure that the main power switch is in the up or on position.
- Start by placing the machine with the white Line Marker positioned over the baseline, at the court's center mark.
- Power on  the machine and allow it to go through a self test.
- Place one tennis ball in the hopper. Push the  button. One tennis ball should be thrown over the net to land within a 2 foot area of the opposite side of the court where the service and center lines converge, just as depicted by the TEST button and the diagram to the right.
- If the test ball lands outside of the 2 foot radius, long or short use the  and  SETTINGS buttons to adjust the distance in .5 foot increments. If the ball should fall outside of the area left or right, nudge the front of the machine slightly to the left or right, as needed. Retest and make adjustments as necessary.
- Once the test is complete, press the manual, program or presets buttons on the right side of the control panel to choose mode of play, then press play button.



### Manual







Press the MANUAL Button to practice one particular shot repetitively. The machine will pause while you make your adjustments. Use / Menu buttons to select location and shot parameters. Use / SETTINGS buttons to increase or decrease value of the selected menu option.

- Speed – Choose from 35 to 80 MPH in 5 mph increments.
- Elevation – Adjust elevation between 2 and 80 degrees in 1 degree increments to change depth of the ball thrown on the court.
- Spin – Increase and decrease top and back spin up to three levels.
- Angle – Choose position along baseline. 0 is center court with positive numbers moving to the right and negative numbers moving to the left.
- Feed – Adjust between 2 - 9 second intervals, or scroll down to random.



When you are satisfied with your adjusted settings press the  Play/Pause button to start your session.

## ELITE GRAND V OPERATING INSTRUCTIONS CONTINUED




### Presets

Press the Presets button  multiple times to scroll through all of the possible functions and pre-set drills. The machine will automatically pause until you are satisfied with the settings. Use  /  Menu buttons to select location and shot parameters. Use  /  SETTINGS buttons to increase or decrease value of the selected shot option. Press the  play/pause button to begin play. To keep all shots in the court some combinations are not available in conjunction with each other.


### OSCILLATION FUNCTIONS

-  **Random Sweep** – balls are thrown randomly across the width of the court. Shot parameters include:
  - Depth – Row A (Deep), Row B (Mid), Row C (Short) or Random.
  - Speed – Choose from 45 to 80 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Feed – Adjust between 2 - 9 second intervals, or scroll down to random.
-  **Random Depth** – balls are thrown randomly from short to deep.
  - Position – At the top of the LCD, choose Left, Center, or Right of court.
  - Speed – Choose from 45 to 75 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Feed – Adjust between 2 - 9 second intervals, or scroll down to random.

### 2-LINE FUNCTIONS

-  **Wide** – practice forehand and backhand at the sidelines.
-  **Narrow** – practice forehand and backhand strokes at the center of the court.
-  **Medium** – practice forehand and backhand strokes midway between center court and sideline.
  - Speed – Choose from 45 to 80 MPH in 5 mph increments.
  - Spin – Increase and decrease top and back spin up to three levels.
  - Depth – Row A (Deep), Row B (Mid), Row C (Short) or Random
  - Feed – Adjust between 2 - 9 second intervals, or scroll down to random.

### FULLY RANDOM FUNCTIONS

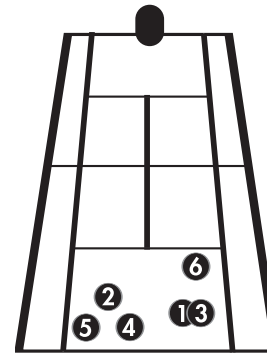
-  **Random** – Your machine will randomly throw balls horizontally and vertically across the court using variations of speed, spin and trajectory.
  - Feed – Adjust between 2 - 9 second intervals, or scroll down to random.

## ELITE GRAND V COURT DRILL INSTRUCTIONS

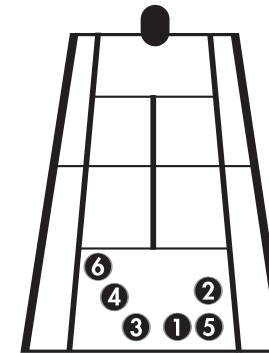
### Pre-Programmed Court Drills

Each of the 12 drills consists of 6 shots in a designated pattern, changing location, ball speed and spin. To alter difficulty, the feed rate can be adjusted.

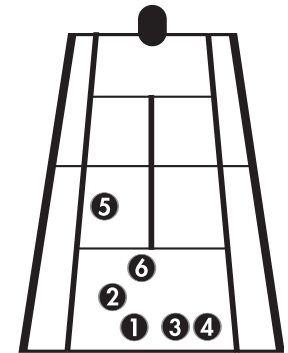
- Grinder** – Six ball drill utilizing the full back court with different types of spin.
- Power Baseliner** – Six ball drill that utilizes the full back court with little spin and more ball speed.
- All-Courter** – Six ball drill that utilizes both the front and back court with some top spin and less ball speed.



Grinder



Power Baseliner

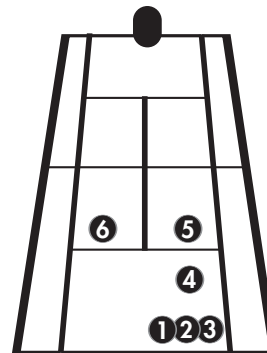


All-Courter

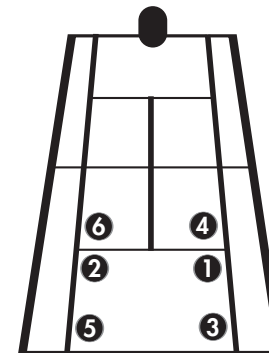
**Approach** – Six ball drill emphasizing the approach from behind the baseline into the front court with balance and speed.

**Attack/Defend** – Six ball drill designed to teach a player to move in all directions from the baseline.

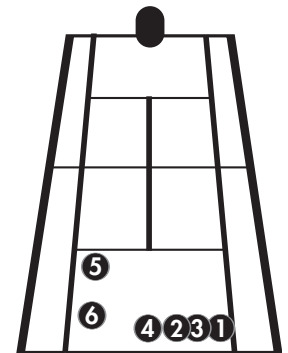
**Forehand Plus** – Six ball drill challenging the player to maintain dominant court position by using their forehand for every shot.



Approach



Attack / Defend



Forehand Plus