

# Application Methods



LineLazer™ IV 3900, 5900, 200HS Auto-Layout™ ,  
and 250SPS System Airless Line Stripers

312307E

EN

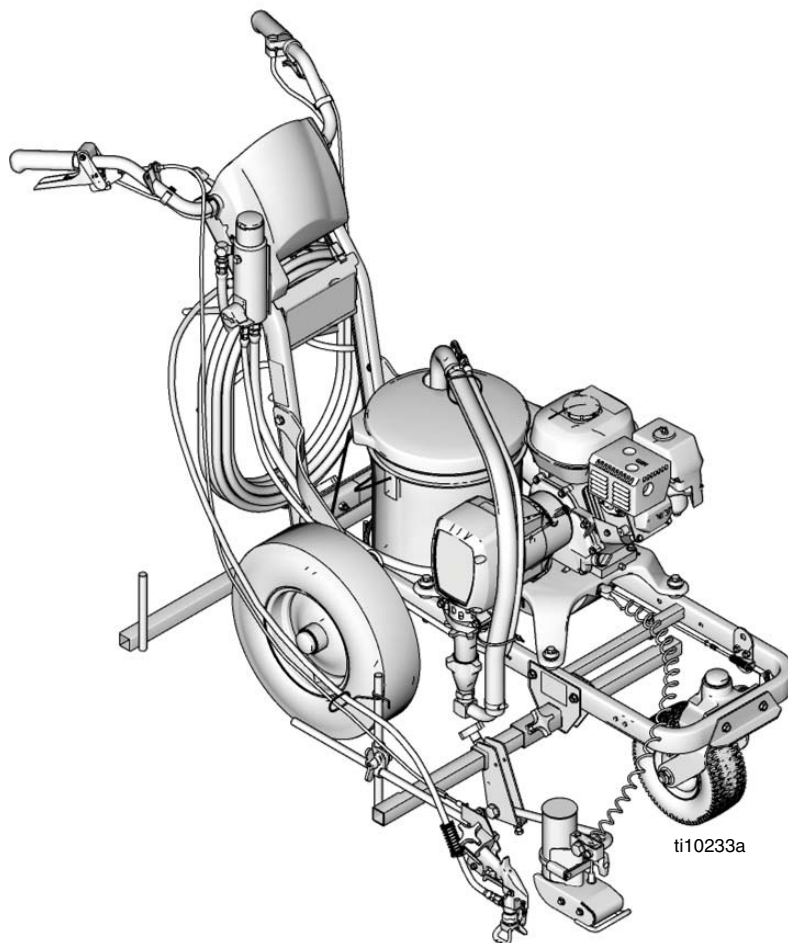
**- For the application of line striping materials. For professional use only. Not for use in explosive atmospheres. -**

*3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure.*



## **Important Safety Instructions**

Read all warnings and instructions in the Operations Manual 312190. Save these instructions.



PROVEN QUALITY. LEADING TECHNOLOGY.

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**NOTE:** For Best results, always dot in the same direction.

**NOTE:** Minimum RPM for placing dots is 2600.

**NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.

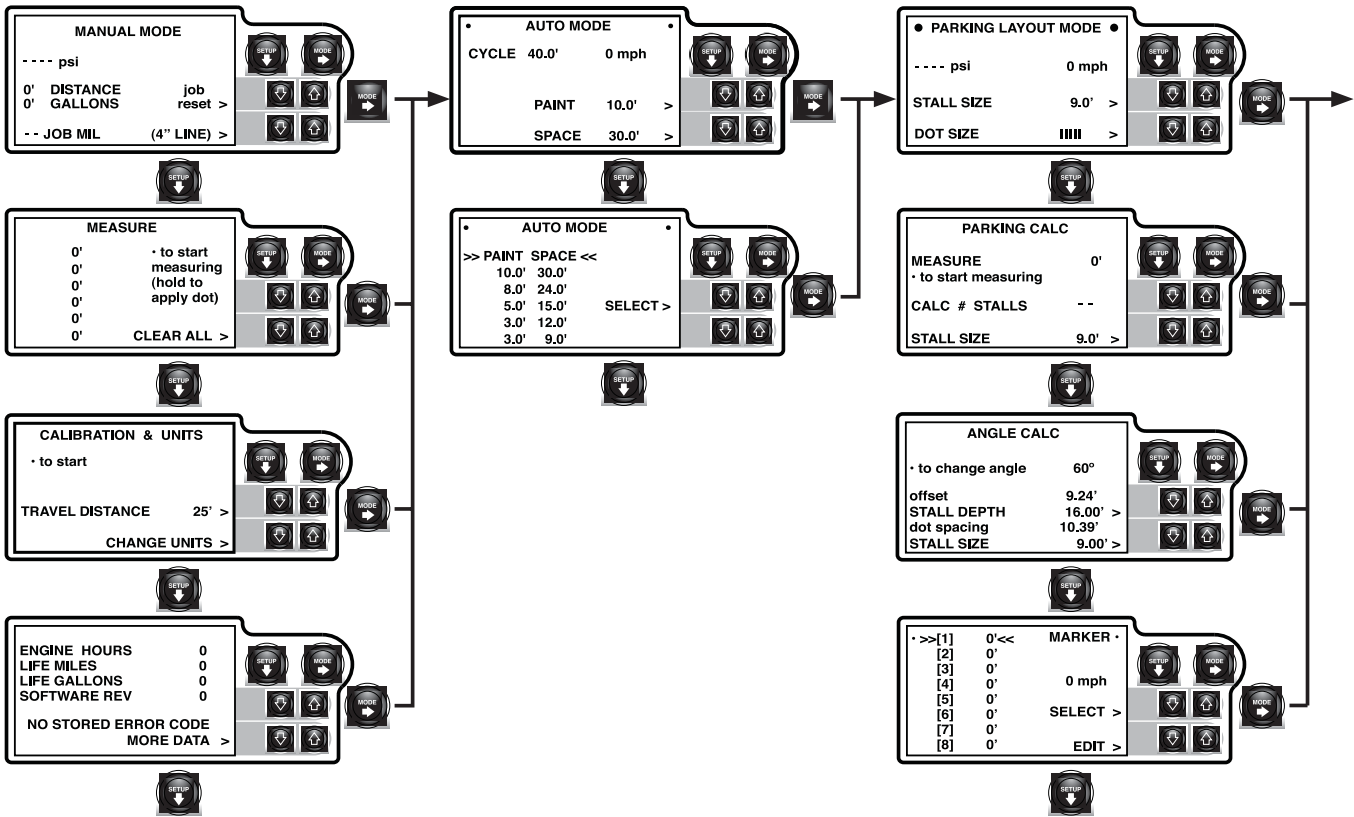
# Quick Guide - LineLazer IV Auto Layout System

STRIPING MODE	PARKING MODE	ROAD MODE	
<p>START</p>	<p>PARKING MODE</p>	<p>ROAD MODE</p>	
<p>ADVANCED FEATURES</p>	<p>ADVANCED FEATURES</p>	<p>ADVANCED FEATURES</p>	
<p>MEASURE MODE</p> <p>CALIBRATION &amp; UNITS</p> <p>ENGINE RPM 3100</p>	<p>PARKING CALC</p> <p>ANGLE CALC</p> <p>MARKER MODE</p>	<p>ROAD PRE-SETS</p> <p>ROAD SETUP</p>	
<p>PROVEN QUALITY. LEADING TECHNOLOGY. CE</p> <p>15M129C Graco Inc. P.O. Box 1441 Minneapolis, MN 55440-1441 Copyright 2007, Graco Inc. registered to I.S. EN ISO 9001</p>			<p>ti8387b</p>

## Auto-Layout™ System

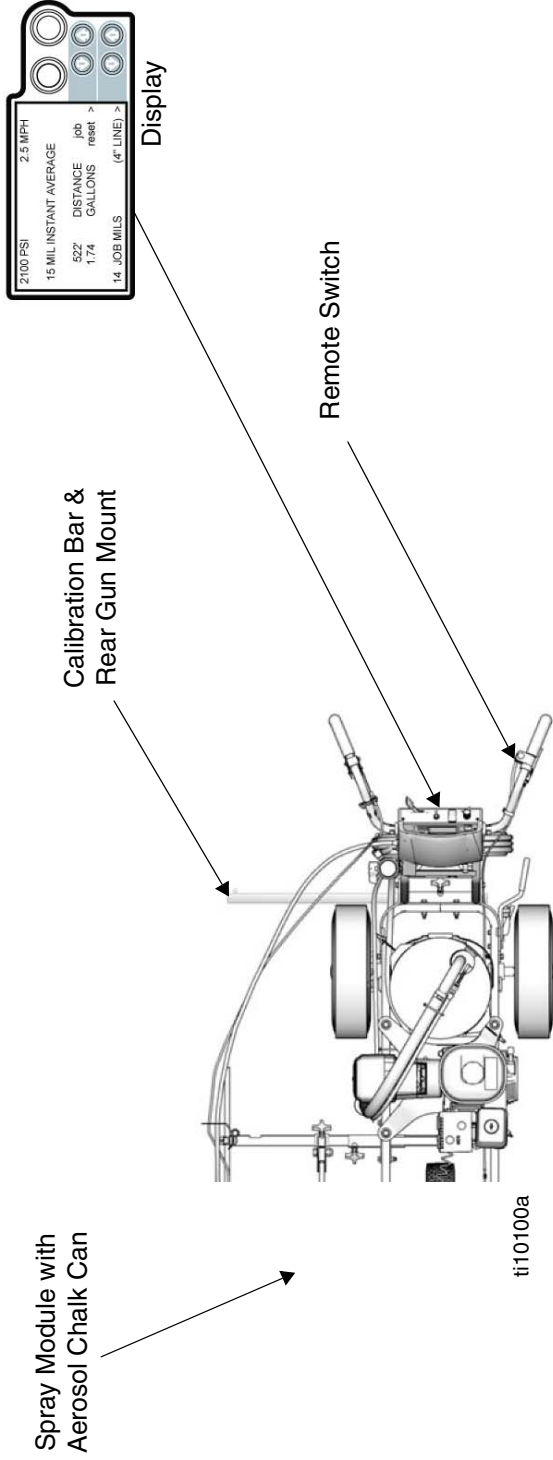
ti8387b\_front

# Quick Guide - LLIV 250SPS

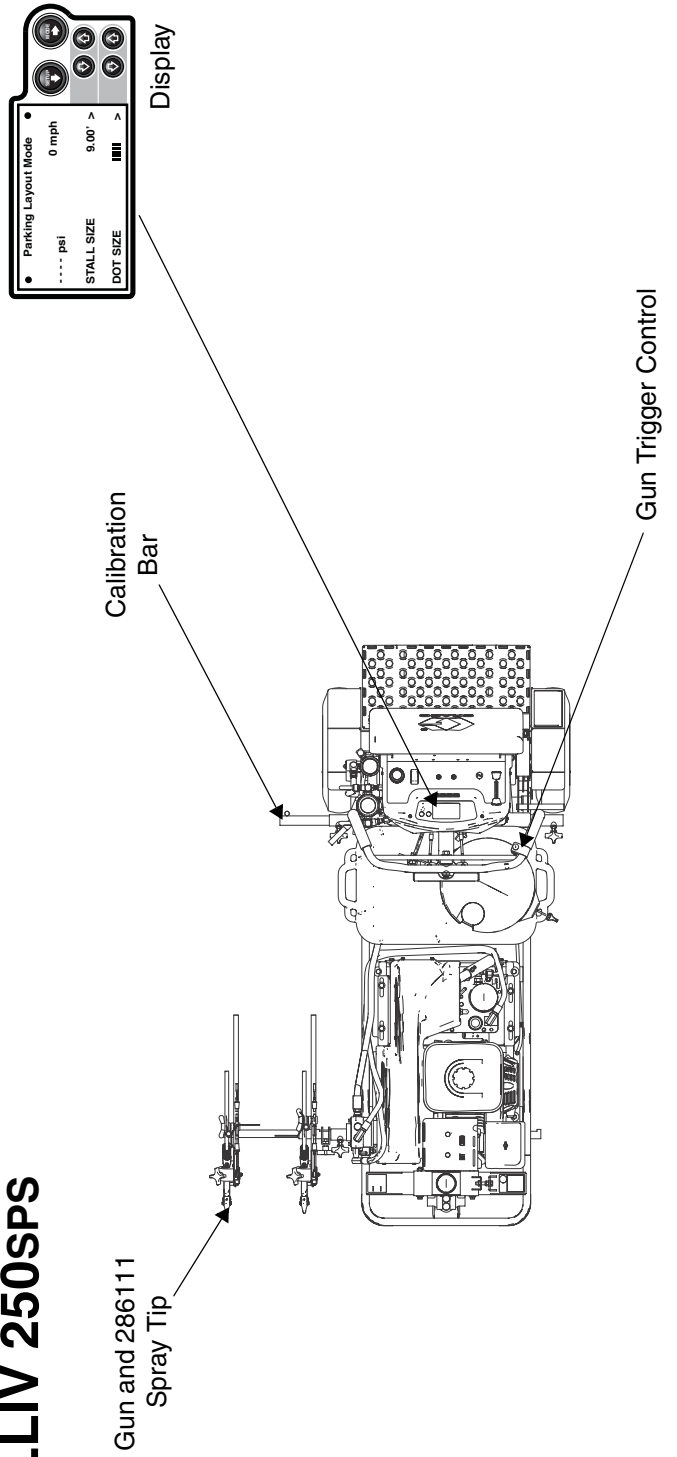


# LineLazer IV Auto-Layout System

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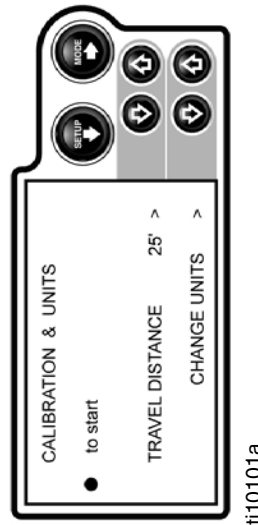
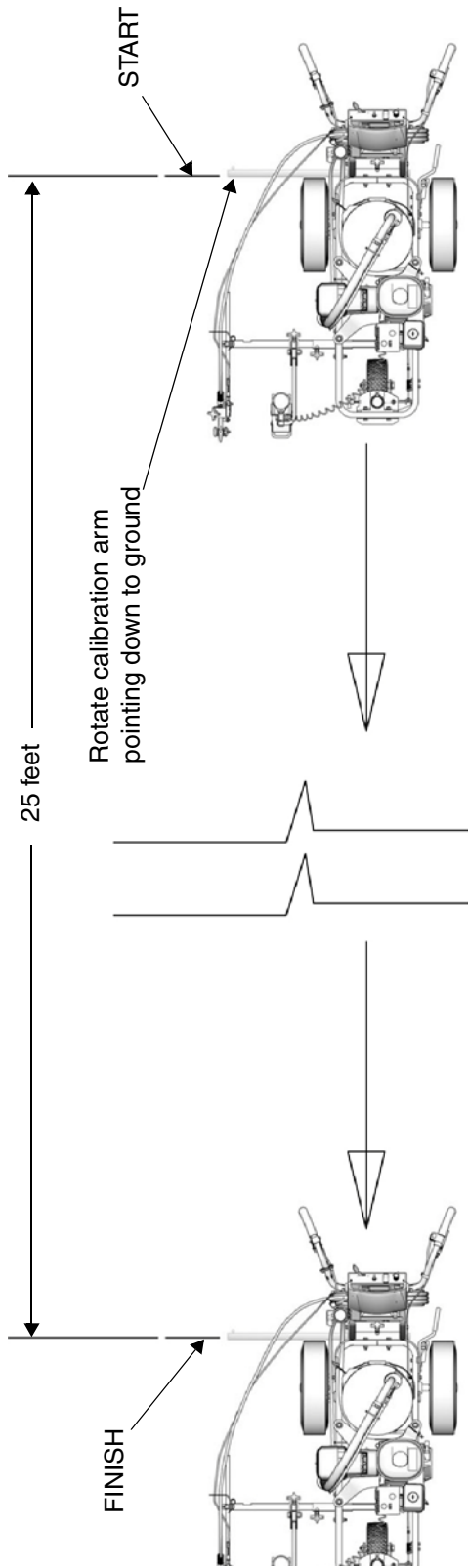


# LLIV 250SPS



# Calibration

## Minimum 25 ft precision course



### CALIBRATION AND UNITS

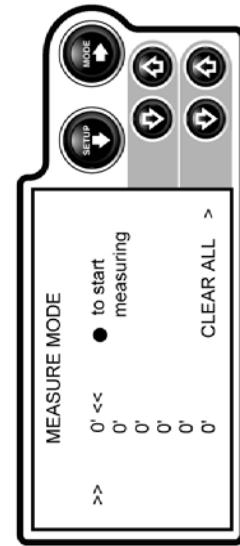
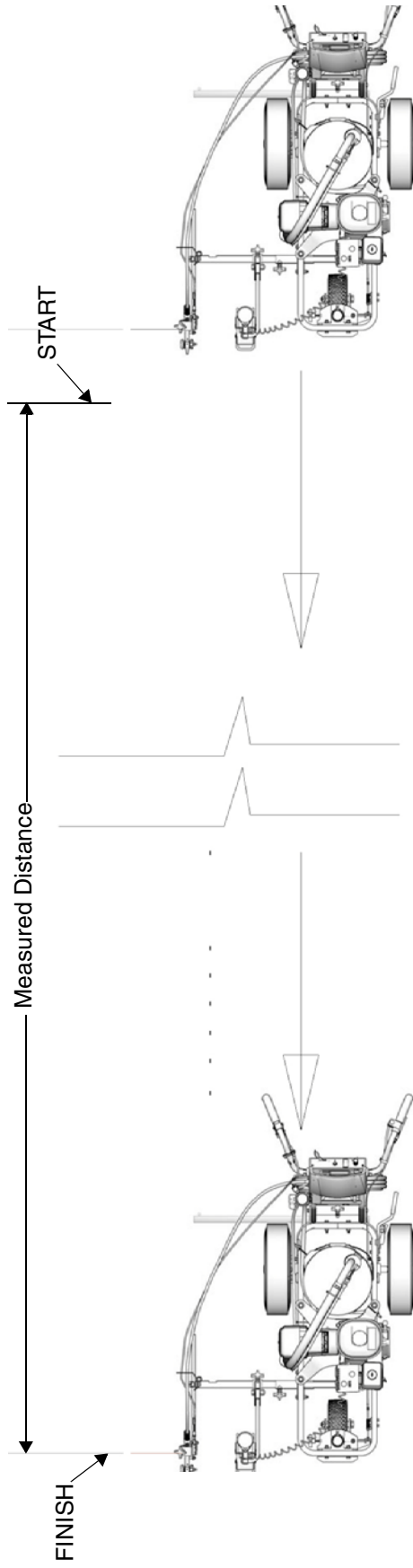
Press **REMOTE SWITCH** to **START** calibration. Press **REMOTE SWITCH** to **FINISH** calibration.

**IMPORTANT NOTE:** For best results, calibrate to a minimum of 25 ft. Use only steel measuring tape. Precise start and stop are necessary. Calibration distance above 100 ft is not recommended due to inaccuracy with setting up the course. Tire air pressure variations can negatively impact accuracy of unit.

**CHANGE UNITS** changes all displayed values to metric or standard units of measure.

# Measure Mode

Used for measuring and marking specific distances



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## MEASURE MODE

At any time while in **MEASURE MODE**, momentarily hold down **REMOTE SWITCH** to apply dot. Holding down **REMOTE SWITCH** will produce continuous dotted line 1 foot dot spacing when moving, used for pre-marking.

Press **REMOTE SWITCH** to **START**. Press **REMOTE SWITCH** to **FINISH**.

Measurements automatically increment down on screen, last measurements display at all times.

**NOTE:** The striper measures moving forward or reverse.

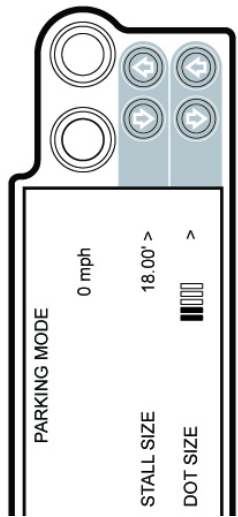
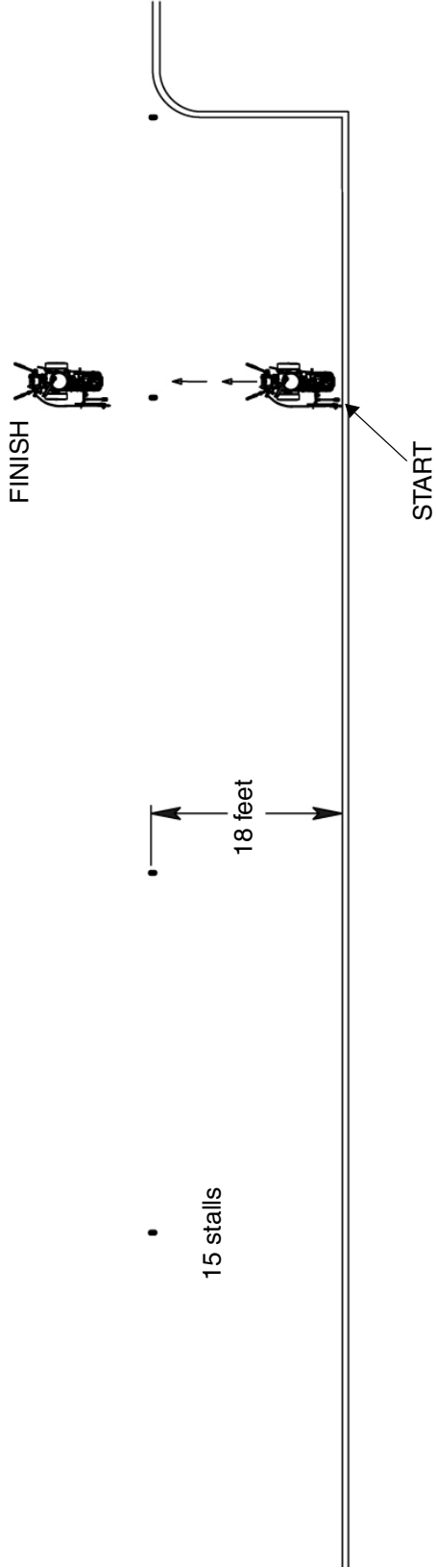
# Basic Stall Layout: Parking Mode

Establishing outer boundary with reference dots

**NOTE:** For Best results, always dot in the same direction.

**NOTE:** Minimum RPM for placing dots is 2600.

**NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.



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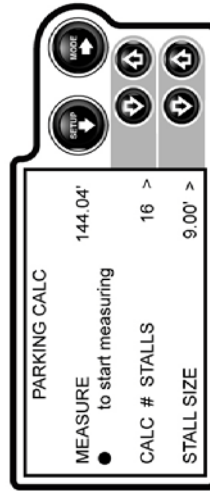
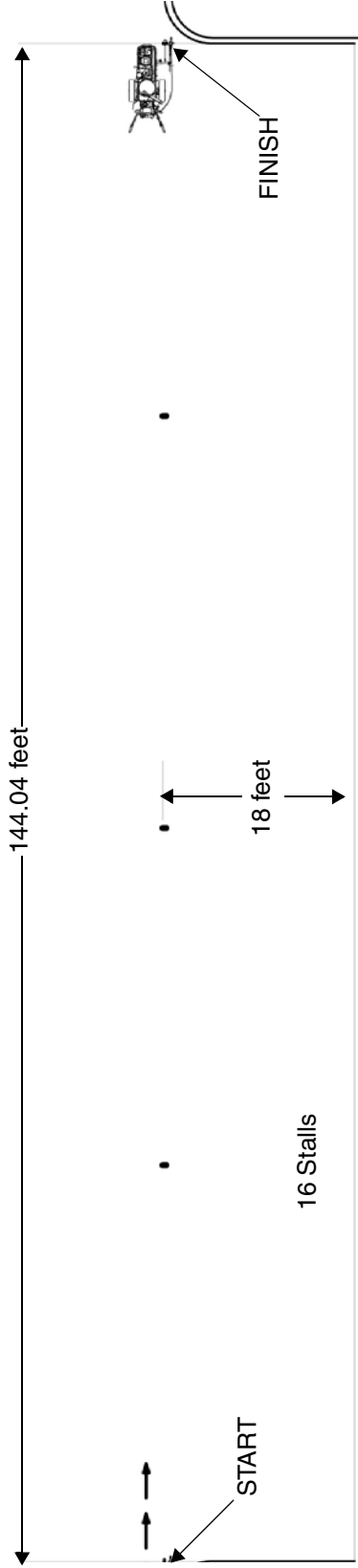
**PARKING MODE**  
Press **REMOTE SWITCH** to **START** and **FINISH**.

Establish enough reference dots to guide striper for applying stall lines.  
In this case, 18 ft from inner curbing.



# Basic Stall Layout: Parking Calculation

Measure for automatic calculation or select desired stall size



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## PARKING CALC

Press **REMOTE SWITCH** to **START** and **FINISH** calculation. **IMPORTANT NOTE:** Start-point and finish-point accuracy is critical.

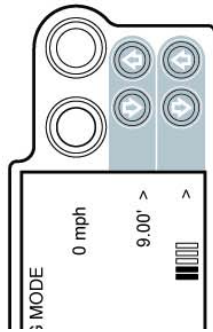
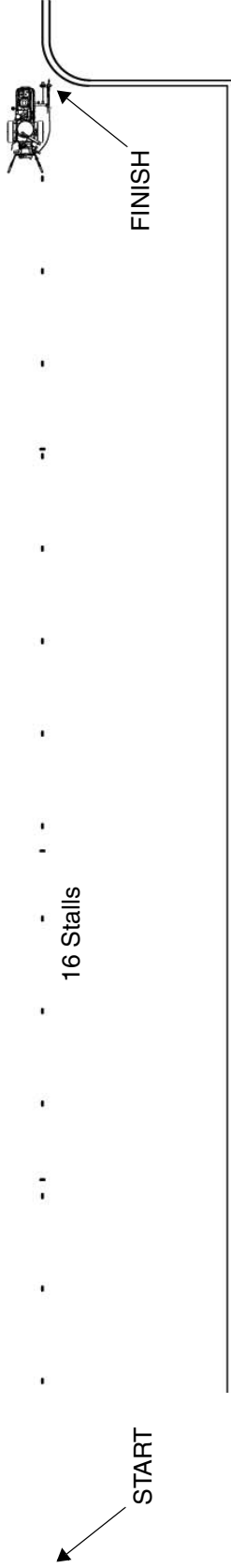
Press remote switch to start measuring. Follow the established 18 ft reference dots, measure from start to finish. Press remote switch to stop measuring.

Use up/down arrows to adjust number of stalls as desired.

**NOTE:** System automatically transfers the calculated **STALL SIZE** from **PARKING CALC** to **PARKING MODE** screen.

# Basic Stall Layout: Parking Mode

Mark dots at beginning of each stall



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## PARKING MODE

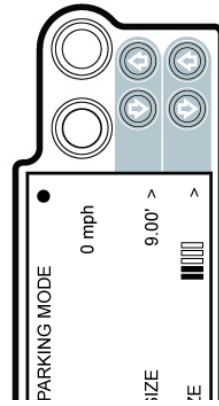
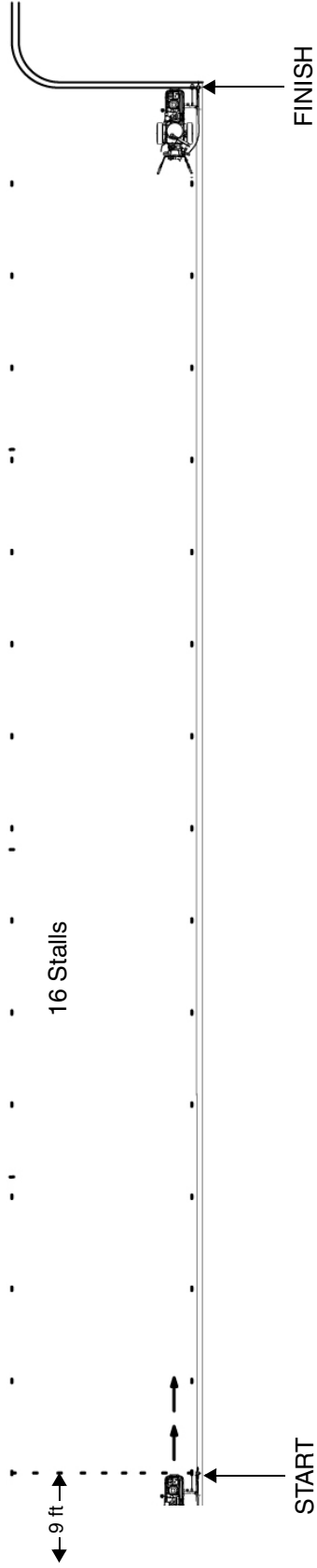
Press **REMOTE SWITCH** to **START** and **FINISH** dots.

Utilizing calculated stall size, apply dots, traveling from start to finish.

**NOTE:** System automatically transfers the calculated **STALL SIZE** from **PARKING CALC** screen if desired.

# Basic Stall Layout: Parking Mode

Mark dots at end of each stall



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## PARKING MODE

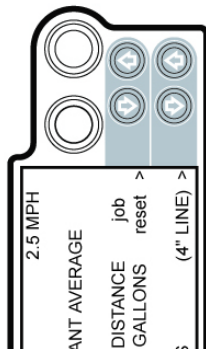
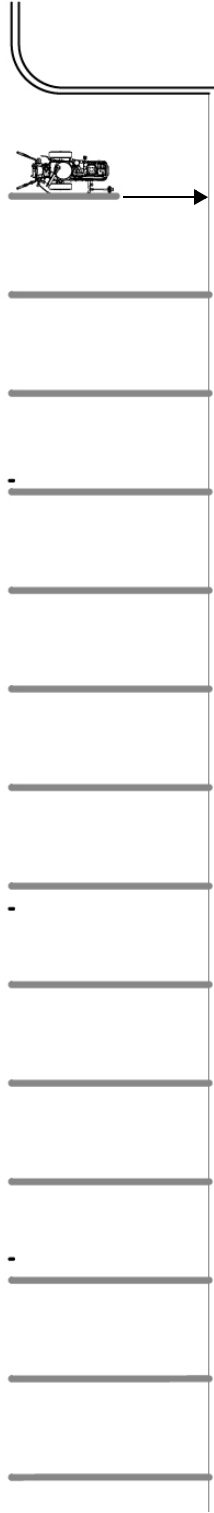
Press **REMOTE SWITCH** to **START** and **FINISH** dots.

Press remote switch at start while following curbing as a reference applying evenly spaced dots. Press remote switch at finish to stop dots.

Establish first stall perpendicular to curb as shown (if curbing does not allow room for striper).

# Basic Stall Layout: Striping Mode

Paint lines (connect the dots)



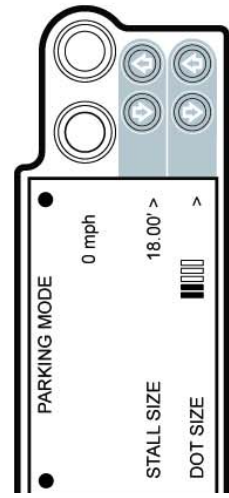
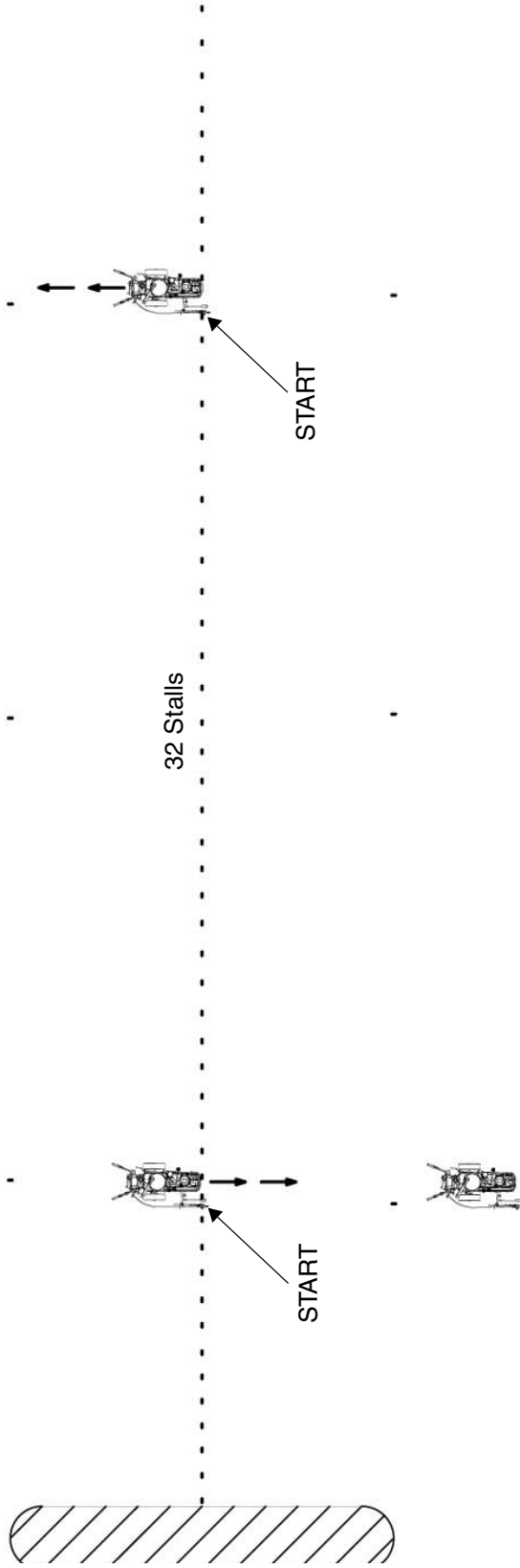
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## STRIPING MODE

Simply connect the dots with your sprayer.

# Island Stall Layout: Parking Mode

Establish the center line and outer boundary first



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## PARKING MODE

Press **REMOTE SWITCH** to start and stop dots.

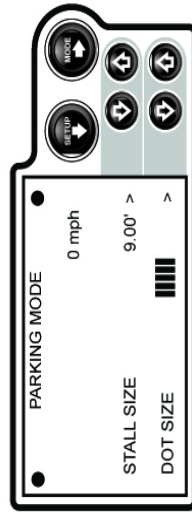
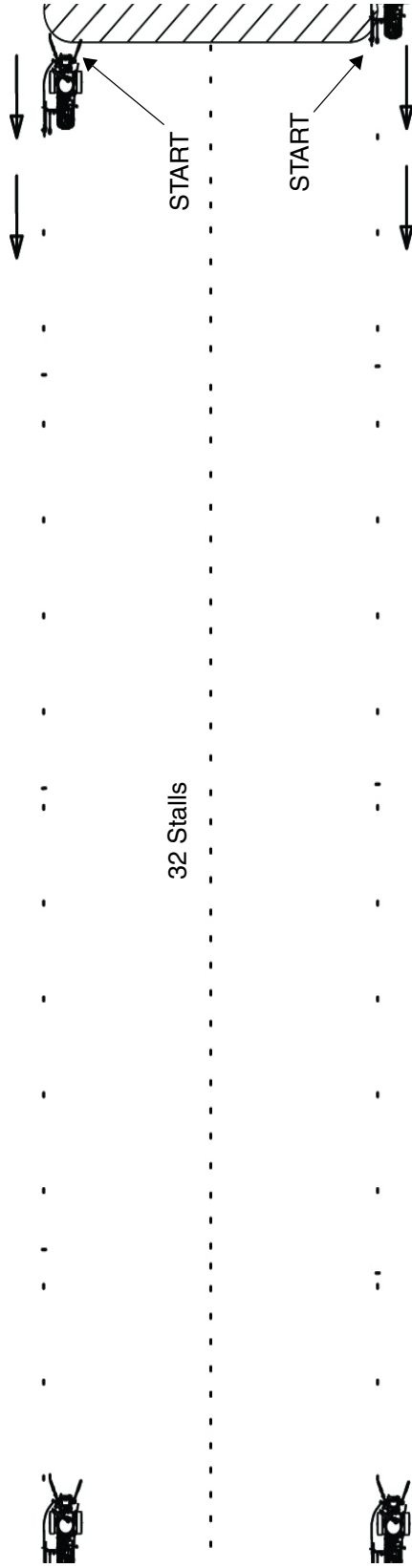
Establish enough reference dots to guide striper for applying stall lines by using **PARKING MODE** measuring 18 ft out from centerline.

**NOTE:** The striper measures moving forward or reverse, as shown, placing evenly spaced dots at desired spacing.

# Island Stall Layout: Parking Mode

Place dots at the beginning of each stall line

- NOTE:** For Best results, always dot in the same direction.
- NOTE:** Minimum RPM for placing dots is 2600.
- NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.



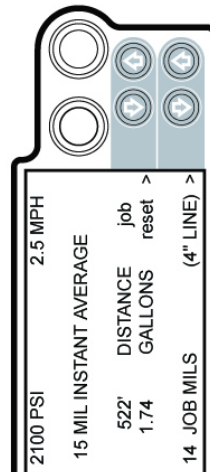
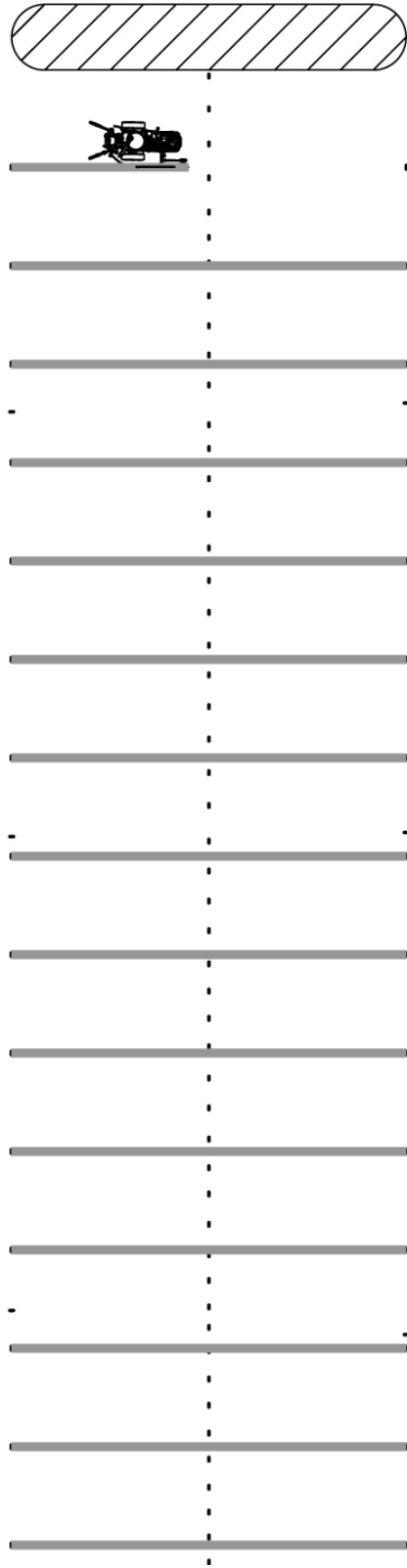
ti10109a

**PARKING MODE**  
Press **REMOTE SWITCH** to start and stop dots.

**NOTE:** See Basic Stalls section (pages 4-8) to automatically measure and calculate stall size.

# Island Stall Layout: Striping Mode

Paint lines (connect the dots)



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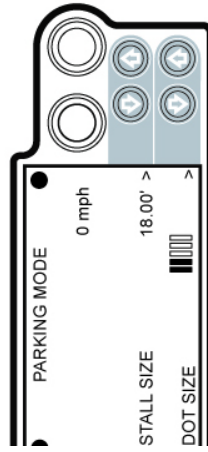
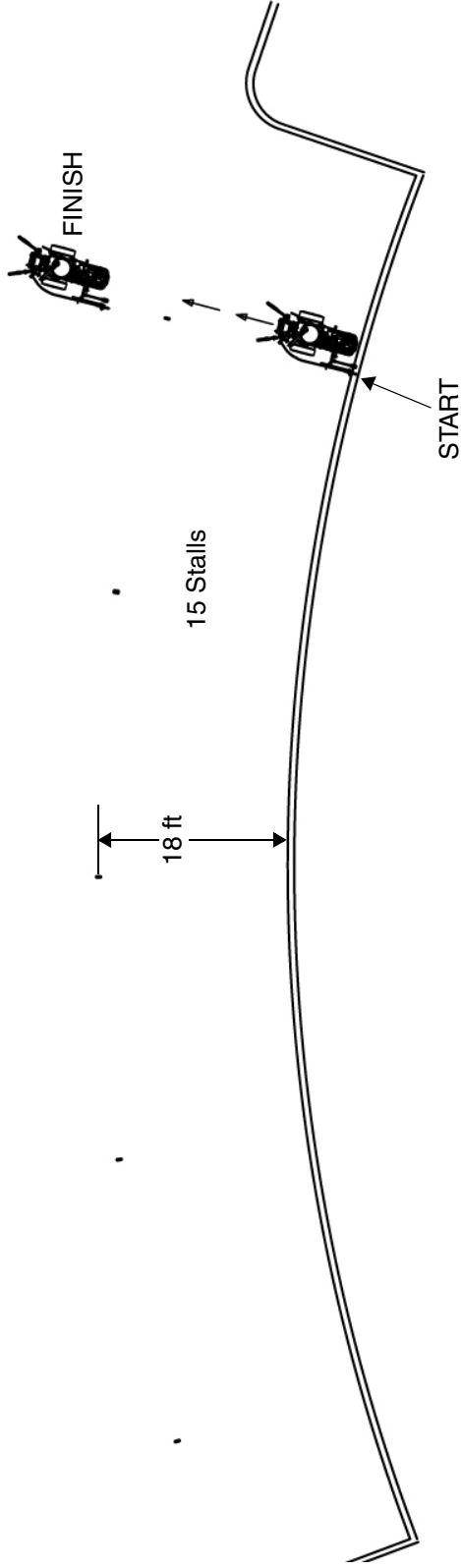
## STRIPING MODE

Simply connect the dots with the striper.

# Radius Stall Layout: Parking Mode

Place evenly spaced dots at beginning of each stall

- NOTE:** For best results, always dot in the same direction.
- NOTE:** Minimum RPM for placing dots is 2600.
- NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.



ti10113b

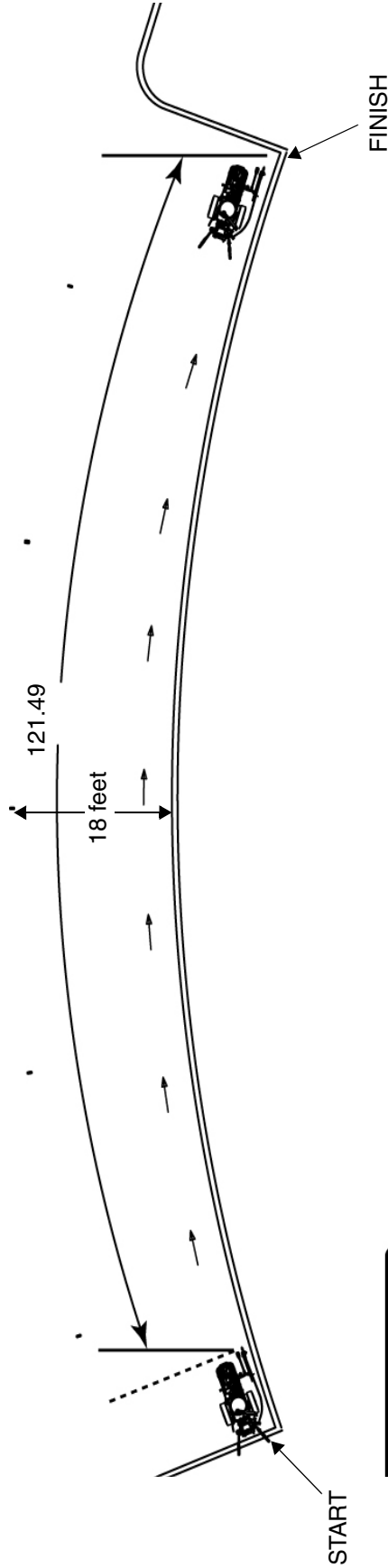
**PARKING MODE**  
Press **REMOTE SWITCH** to **START** and **FINISH**.

Establish enough reference dots to guide striper for measuring and applying stall lines. In this case, 18 feet from inner curbing.



# Radius Stall Layout: Parking Calculation

Measure inner perimeter distance



ARKING CALC	121.49'		
E start measuring			
STALLS	15	>	
ZE	8.68'	>	

## PARKING MODE

Press **REMOTE SWITCH** to **START** and **FINISH** measuring.

**NOTE:** Measure start-point and finish-point accuracy is critical.

Press remote switch at start, follow the curbing as a reference to guide striper along path measuring from start to finish. Press remote switch at finish to stop measuring.

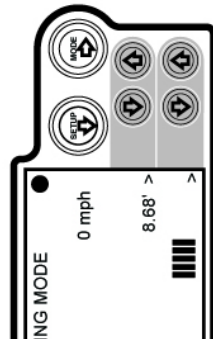
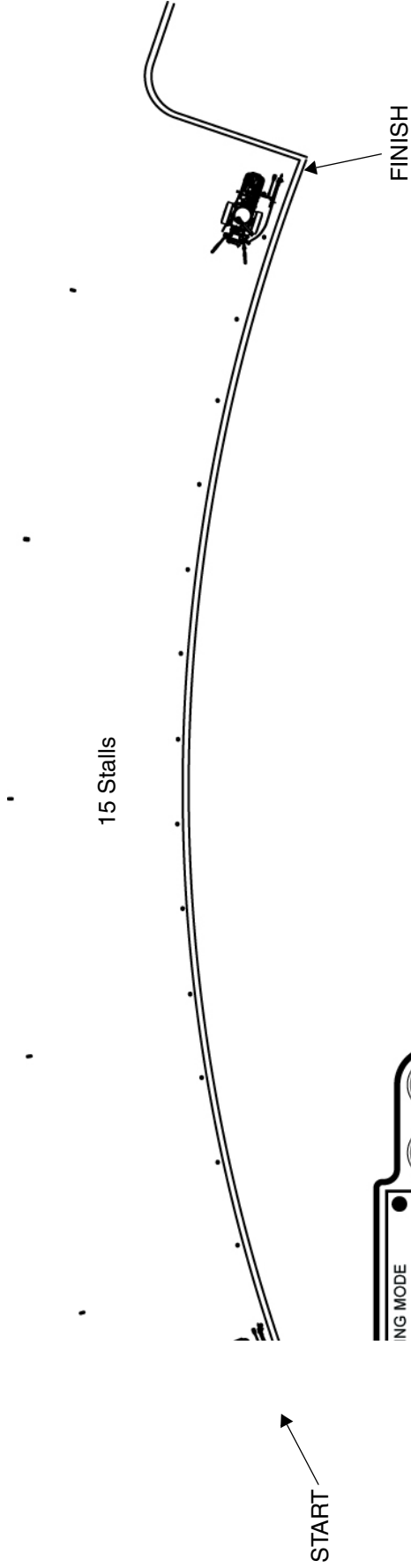
Use up/down arrows to adjust correct number of stalls. New parking stall size will display under **STALL SIZE**. Establish first stall if curbing does not allow room for striper (in this case 15 less 1 = 14 for the calculation).

**NOTE:** System automatically transfers the calculated **STALL SIZE** from **PARKING CALC** to **PARKING MODE** screen.

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# Radius Stall Layout: Parking Mode

Mark dots at end of each stall



ti10412a

**PARKING MODE**  
Press **REMOTE SWITCH** to **START** and **FINISH** dots.

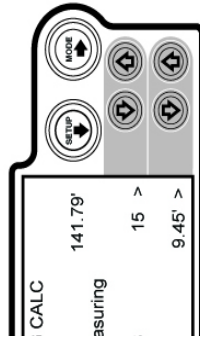
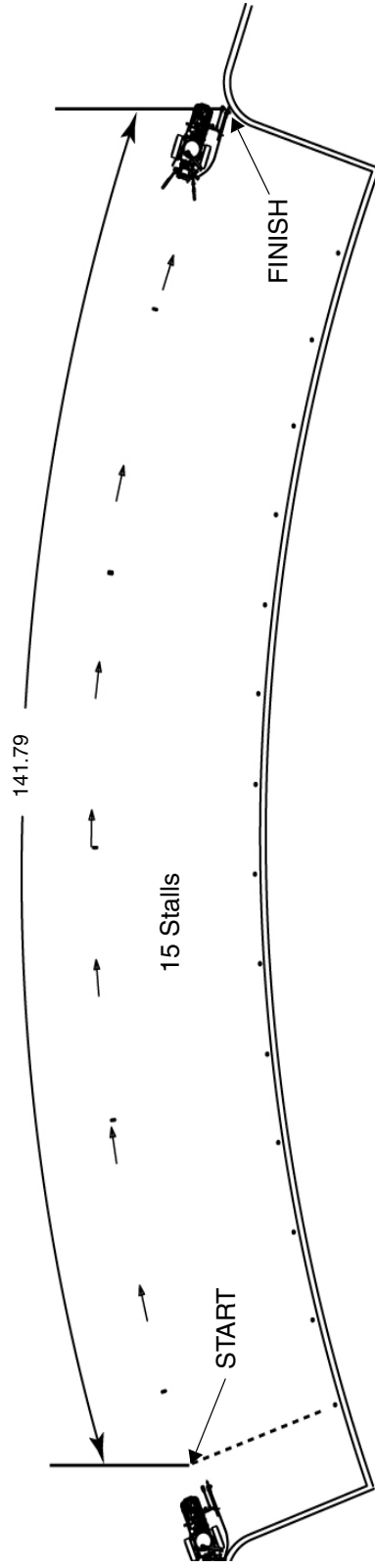
Utilizing calculated stall size, apply dots, traveling from start to finish.

Establish first stall perpendicular to curb as shown (if curbing does not allow room for stripet).

**NOTE:** System automatically transfers the calculated **STALL SIZE** from **PARKING CALC** to **PARKING MODE** screen.

# Radius Stall Layout: Parking Calculation

Measure outer perimeter distance



ti10413a

## PARKING CALC

Press **REMOTE SWITCH** to **START** and **FINISH** measuring.

**NOTE:** Start-point and finish-point accuracy is crucial.

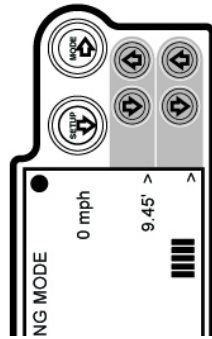
Press remote switch at start to begin measuring. Follow the established 18 ft reference dots measuring from start to finish. Press remote switch again to stop measuring.

Use up/down arrows to adjust correct number of stalls.

**NOTE:** System automatically transfers the calculated **STALL SIZE** from **PARKING CALC** to **PARKING MODE** screen.

# Radius Stall Layout: Parking Mode

Place evenly spaced dots at beginning of each stall



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## PARKING MODE

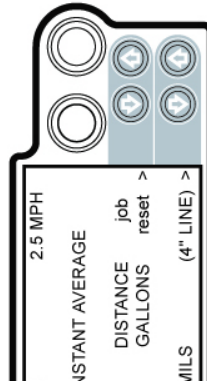
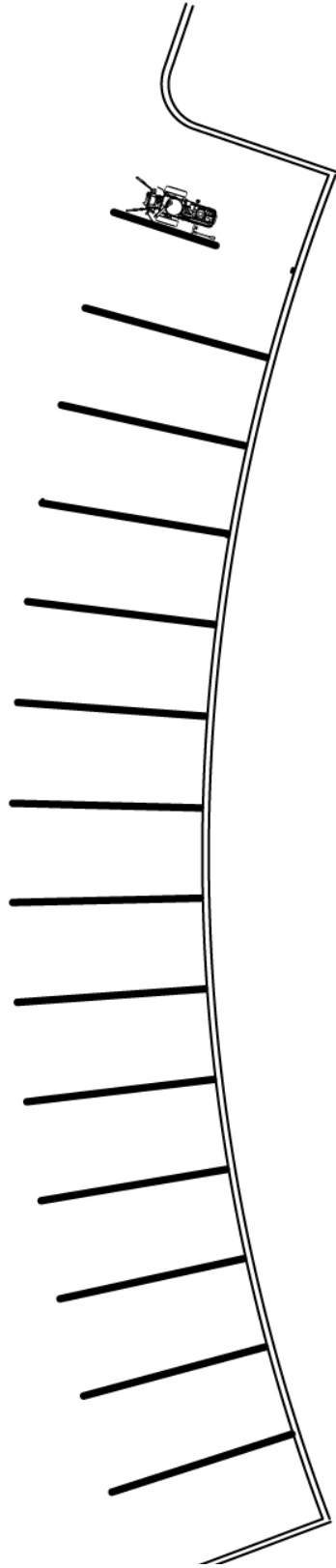
Press **REMOTE SWITCH** to **START** and **FINISH** dots.

Utilizing calculated stall size, apply dots traveling from start to finish.

**NOTE:** System automatically transposes the calculated **STALL SIZE** from **PARKING CALC** to **PARKING MODE** screen.

# Radius Stalls

Paint lines



## STRIPING MODE

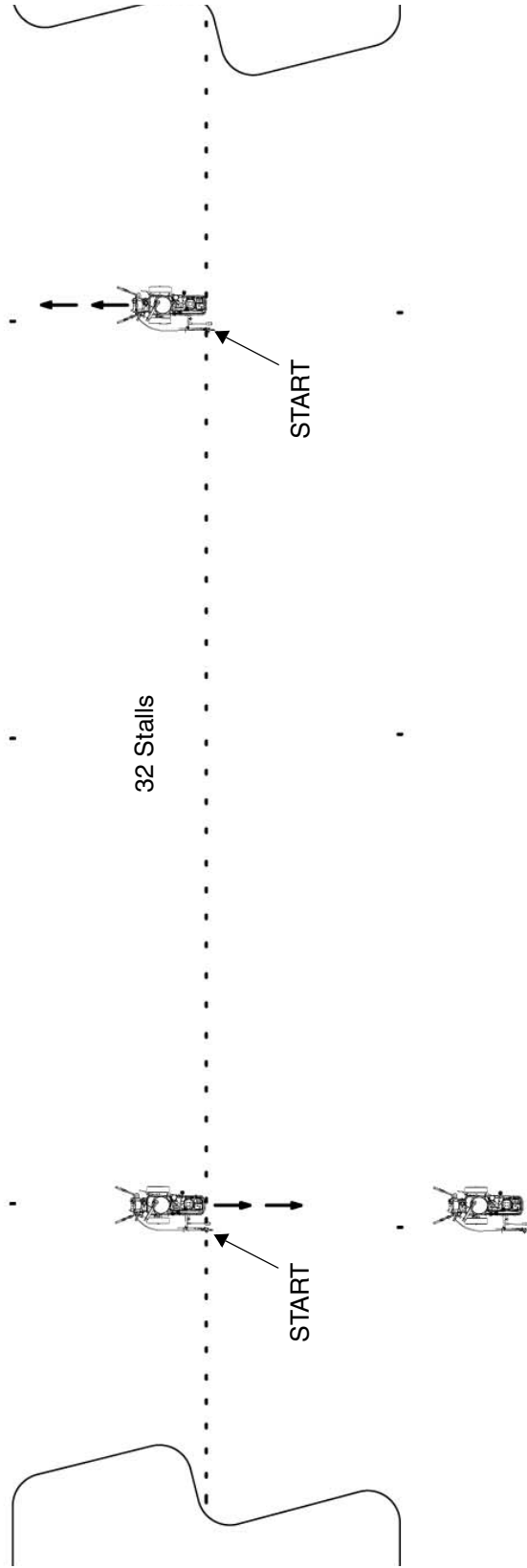
Simply connect the dots with the striper.

ti10116b

# Angle Stall Layout: Parking Mode

Establish the center line and outer boundary

- NOTE:** For best results, always dot in the same direction.
- NOTE:** Minimum RPM for placing dots is 2600.
- NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.

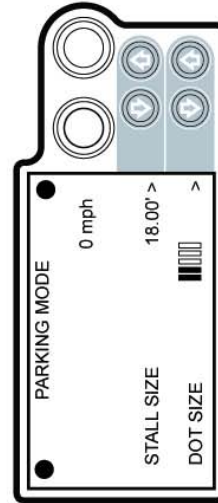


## PARKING Mode

Press **REMOTE SWITCH** to **START** and **FINISH** dots.

Establish enough reference dots to guide striper for applying stall lines by using **PARKING MODE** measuring 18 ft out from centerline.

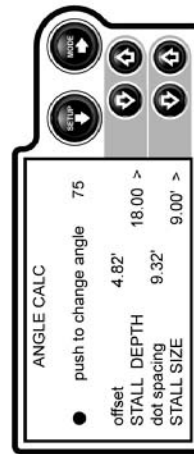
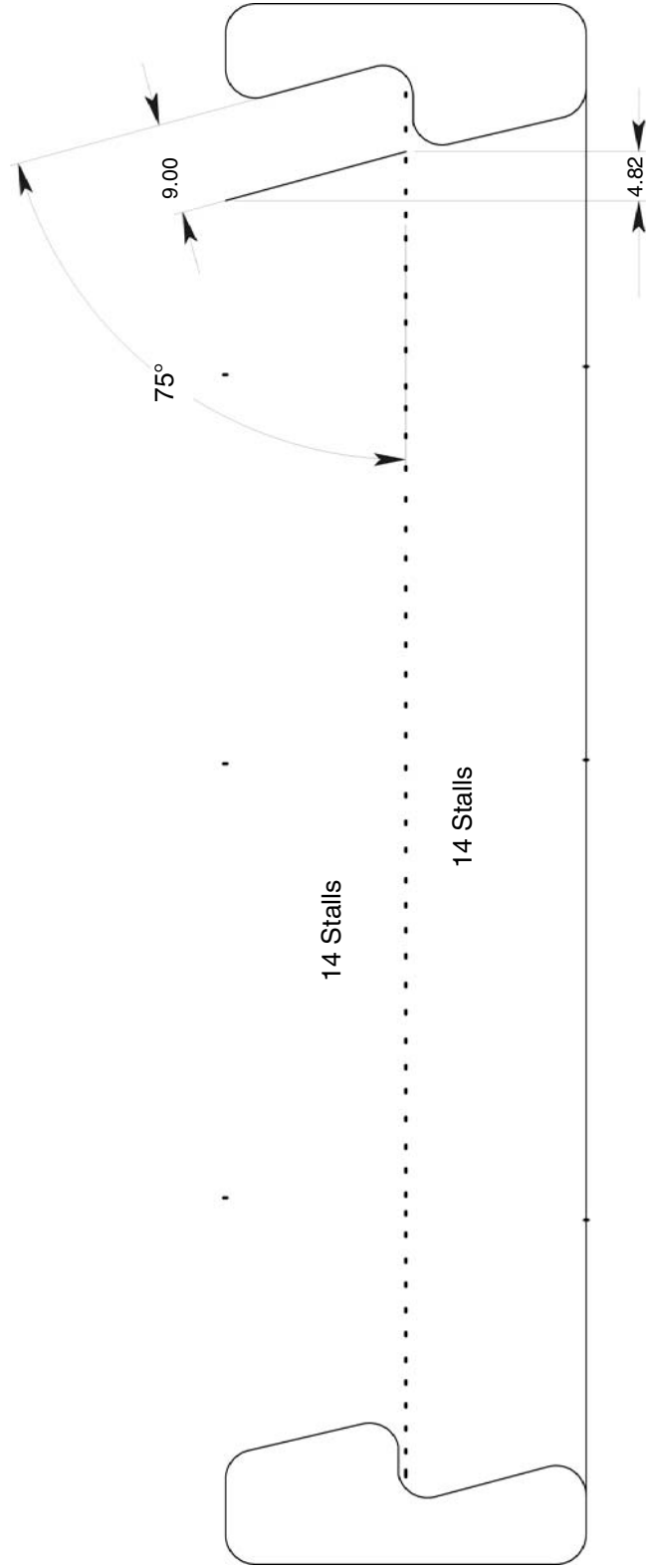
**NOTE:** The striper measures moving forward or reverse, as shown, placing evenly-spaced dots at desired spacing.



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# Angle Stall Layout: Angle Calculation

Measure outer boundary



ti10118a

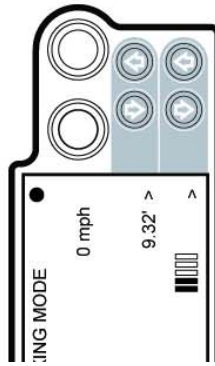
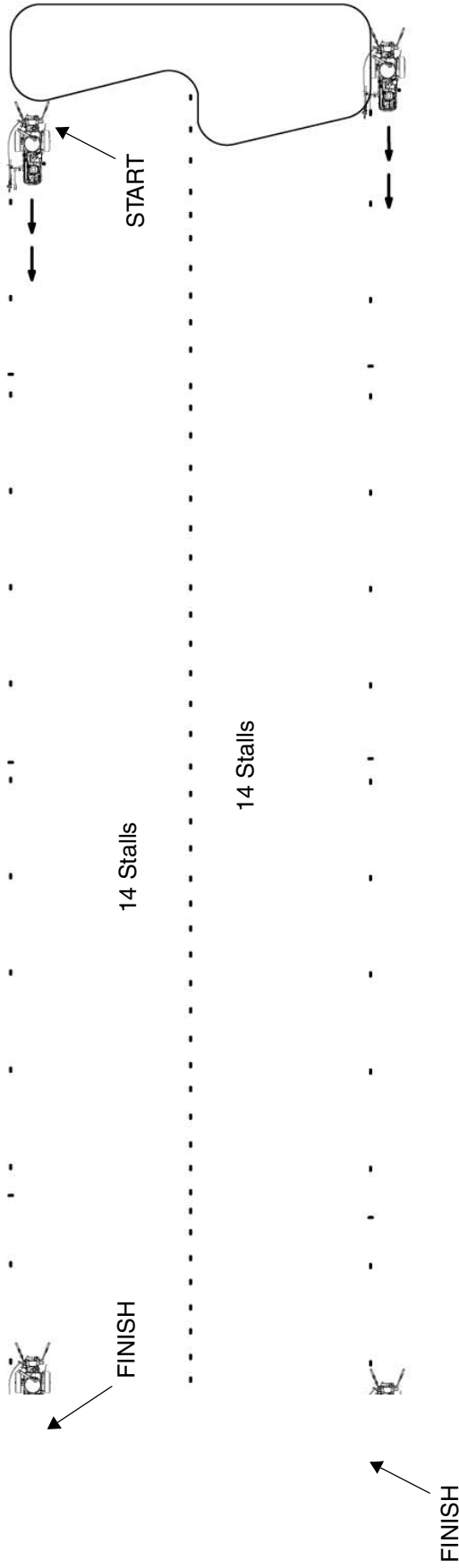
## ANGLE CALC

Press **REMOTE SWITCH** to adjust desired angle. Use up/down arrows to set desired **STALL DEPTH** and **STALL SIZE**. System automatically calculates "offset" and "dot spacing".

**NOTE:** System automatically transfers calculated "dot spacing" from **ANGLE CALC** to **PARKING MODE** screen.

# Angle Stall Layout: Parking Mode

Mark dots at end of each stall



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## PARKING MODE

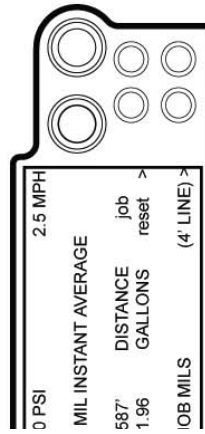
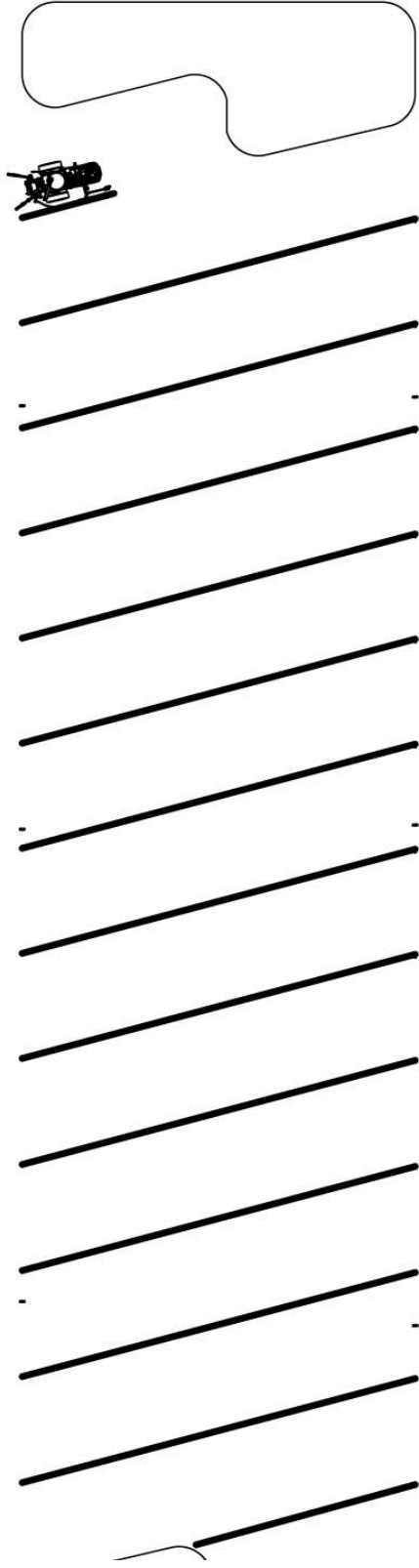
Press **REMOTE SWITCH** to **START** and **FINISH** dots.

If necessary, use **PARKING CALC** to determine how many 9.32 ft parking stalls will fit.



# Angle Stall Layout: Striping Mode

Paint lines (connect the dots)



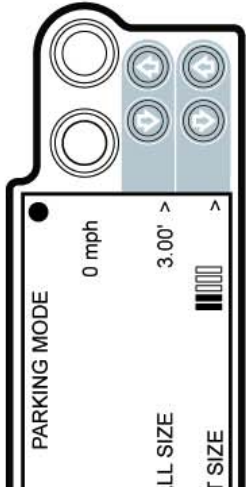
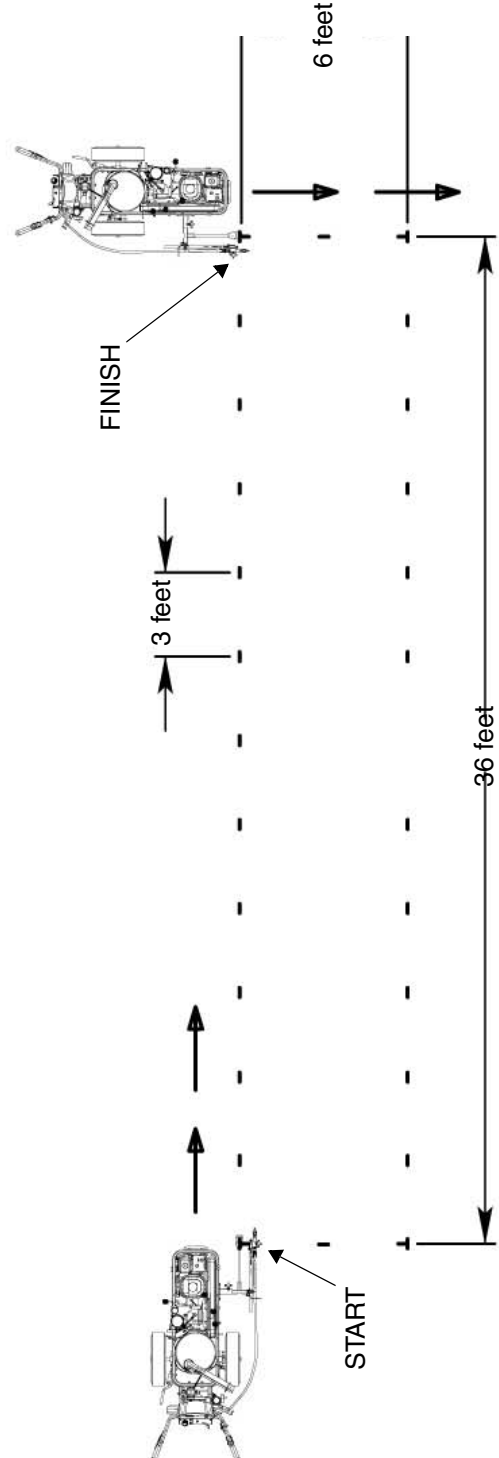
**STRIPING MODE**  
Simply connect the dots with the striper.

ti10120a

# Cross Hatch Layout: Parking Mode

Establish the boundary and apply dots at desired spacing

- NOTE:** For Best results, always dot in the same direction.
- NOTE:** Minimum RPM for placing dots is 2600.
- NOTE:** Minimum pressure on LLIV 250SPS is 1000 psi.

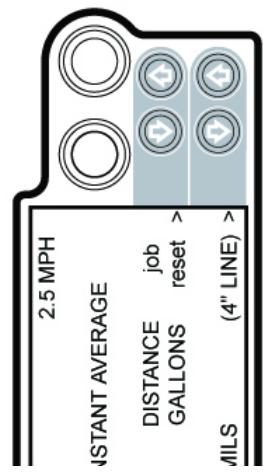
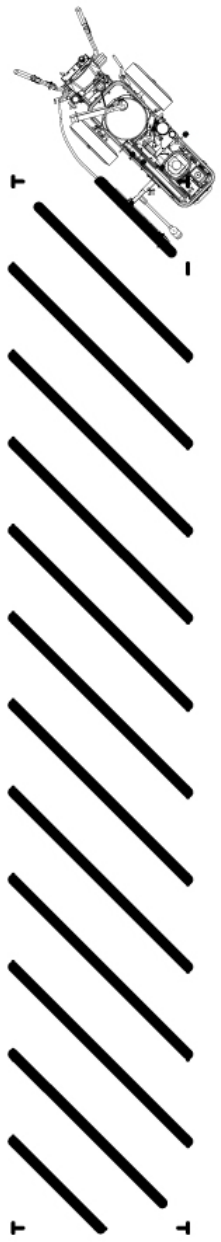


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- PARKING MODE**  
Press **REMOTE SWITCH** to **START** and **FINISH** dots.
- Adjust **STALL SIZE** to achieve desired cross hatch spacing.
- Place dots around perimeter of area.

# Cross Hatch Layout: Striping Mode

Paint lines (connect the dots)



## STRIPING MODE

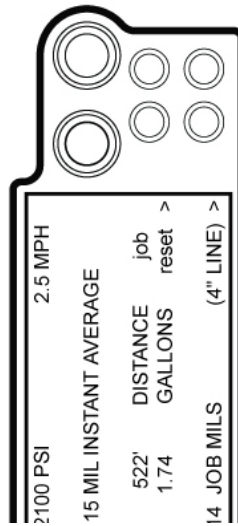
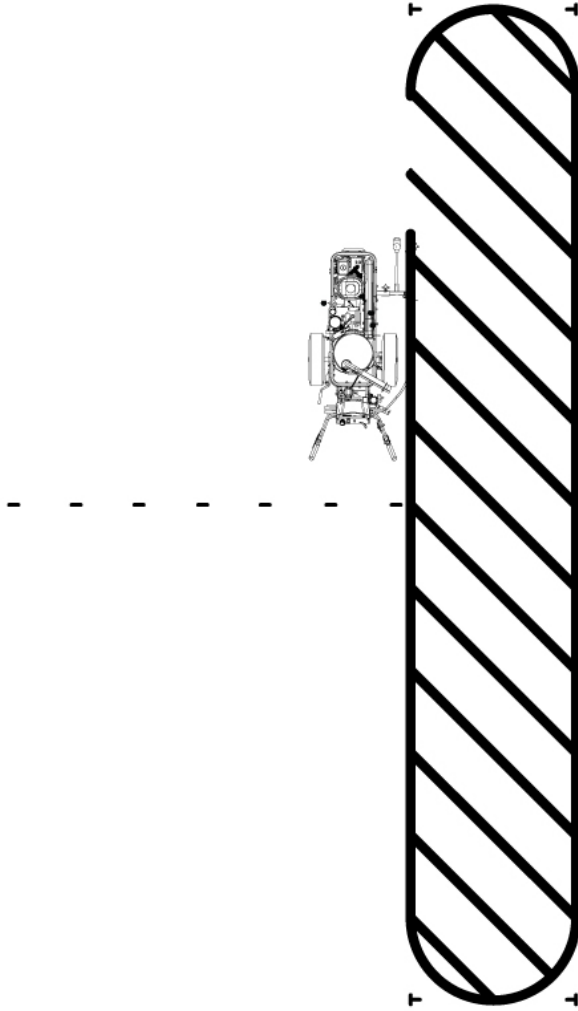
Simply connect the dots with the striper.

Paint interior by connecting the dots. If ends are rounded as shown, make sure you establish this before painting.

ti10122a

# Cross Hatch Layout: Striping Mode

Paint perimeter (connect the dots)



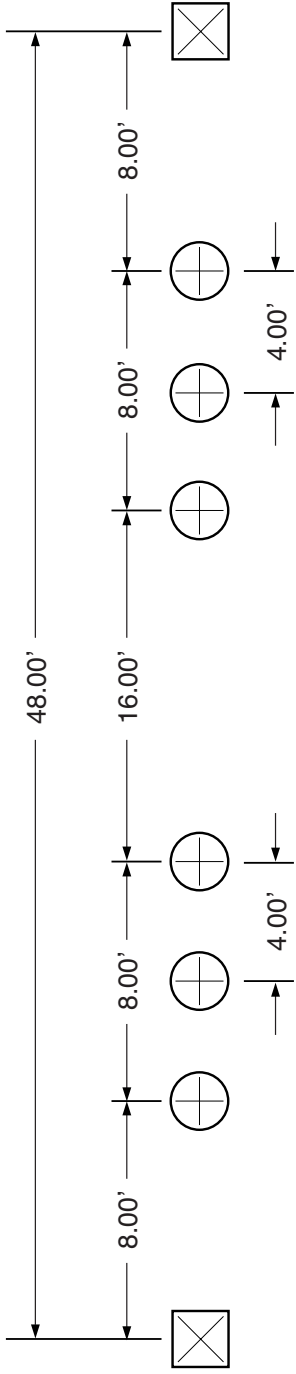
ti10123a

## STRIPING MODE

Large or small, cross hatching jobs can be simplified by following these simple steps, eliminating the inconsistencies found on many job sites today.

# Marker Mode Layout: Center Lines and Lane Lines Mode

Paint lines (connect the dots)

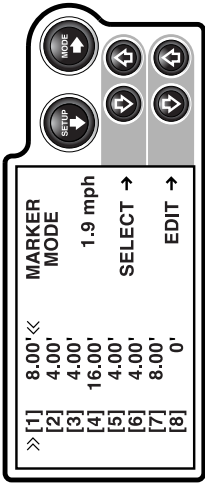


### MARKER MODE

Automatic marker layout example shows typical lane line layout for reflective markers. Set space sizes up to 8 consecutive measurements. By leaving zeros in any space, AutoLayout will skip to the next measurement in a continuous loop.

### OTHER USES:

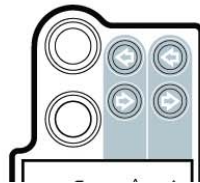
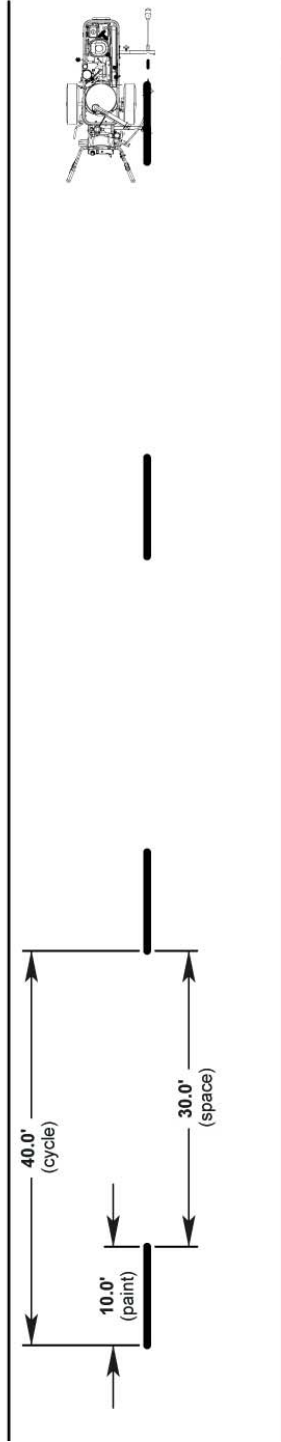
- Multiple spaced handicap stall layout
- Double line stalls



tt10126a

# Line Layout: Road Mode

Skip line



## ROAD MODE

Automatic skipline layout for roads, bike trails, and airports.

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# Notes


# Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

**THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

**GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.** These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

## **FOR GRACO CANADA CUSTOMERS**

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présent document ainsi que de tous les documents, avis et procédures judiciaires exécutés, donnés ou intentés à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées, sera en anglais.

## **ADDITIONAL WARRANTY COVERAGE**

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

# Graco Information

For the latest information about Graco products, visit [www.graco.com](http://www.graco.com).

**TO PLACE AN ORDER**, contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.

*All written and visual data contained in this document reflects the latest product information available at the time of publication.  
Graco reserves the right to make changes at any time without notice.*

*For patent information, see [www.graco.com/patents](http://www.graco.com/patents).*

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