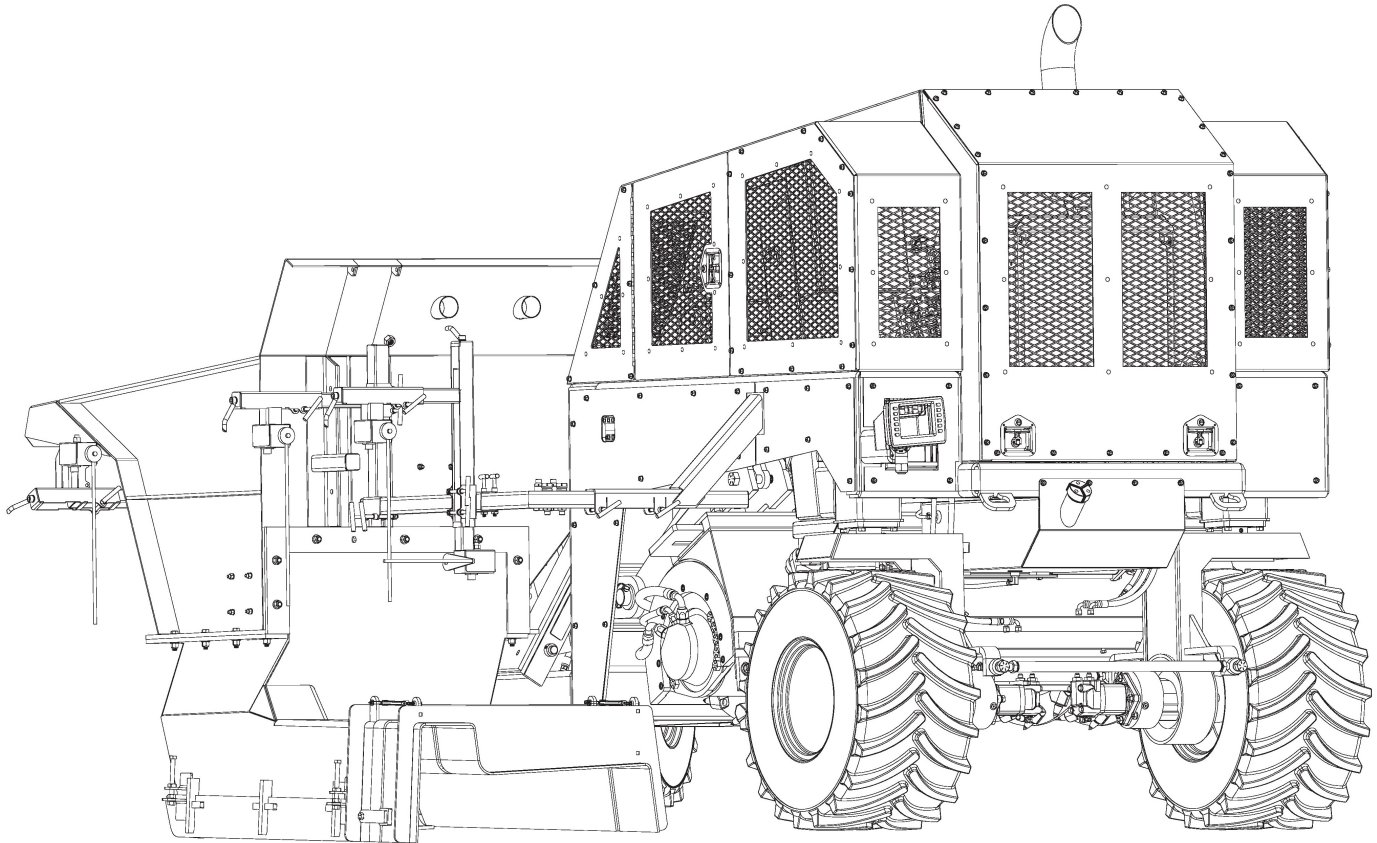


***CurbDog Equipment***

# **OPERATION MANUAL**



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**CD9700 Curber**  
**Operation No. CD9700-rev2**  
**Published 06-31-19**

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## THE BASICS

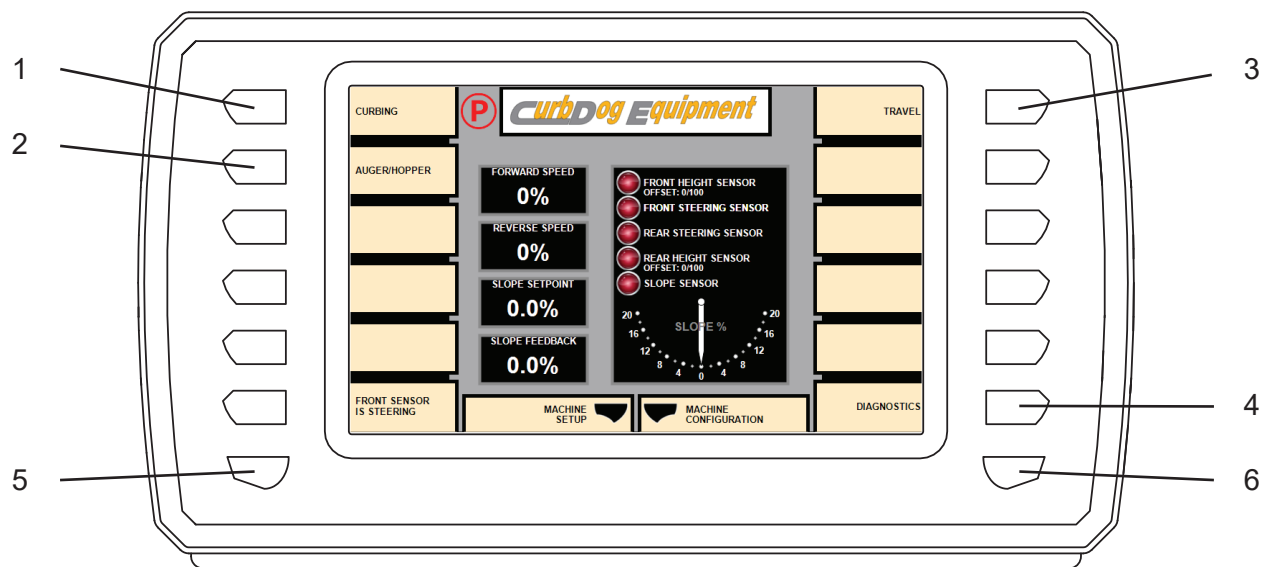
Congratulations and welcome to the CurbDog curbing family! With a little practice and patience, our line of slipform curb machines will not only help you to become more productive, but exponentially more profitable!

The primary focus of this short **Quick-start** manual will be to give you the basic knowledge needed to allow you to receive/unload/move your new CDE Slipform Curbing Machine. A more comprehensive and complete understanding of the machine will be available in the complete Owner's Manual and 3-day training session with a CurbDog Certified Instructor.

## TRAVEL MODE

Accessed through the Home page after initial boot when the machine is tuned on, **Travel Mode (3)** allows for the basic "manual" operation of the curber. In **Travel Mode**, all sensor and computer functions are tuned off and all non-transport associated hydraulics are inaccessible. This allows for easy manual operation for purposes of trailer loading/unloading, string-line initial positioning and any other non-operational travel associated with moving the curber from one place to another.

**NOTE:** Hopper mounted controls must be in the Neutral/Off position when operating in **Travel Mode**.

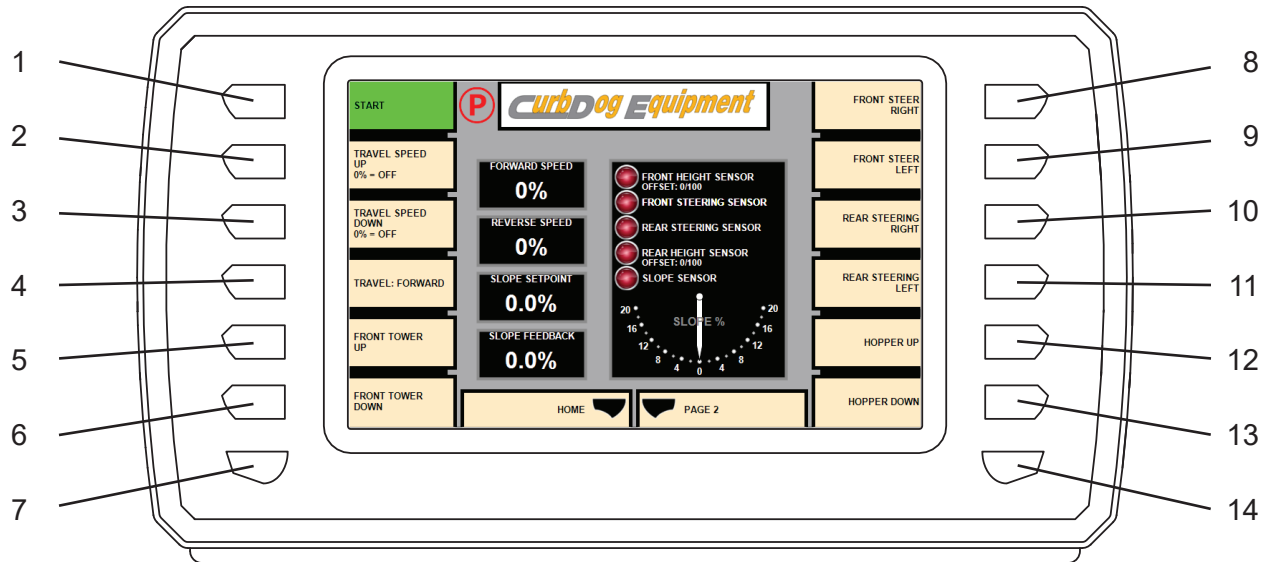


INITIAL START PAGE (Figure S1)

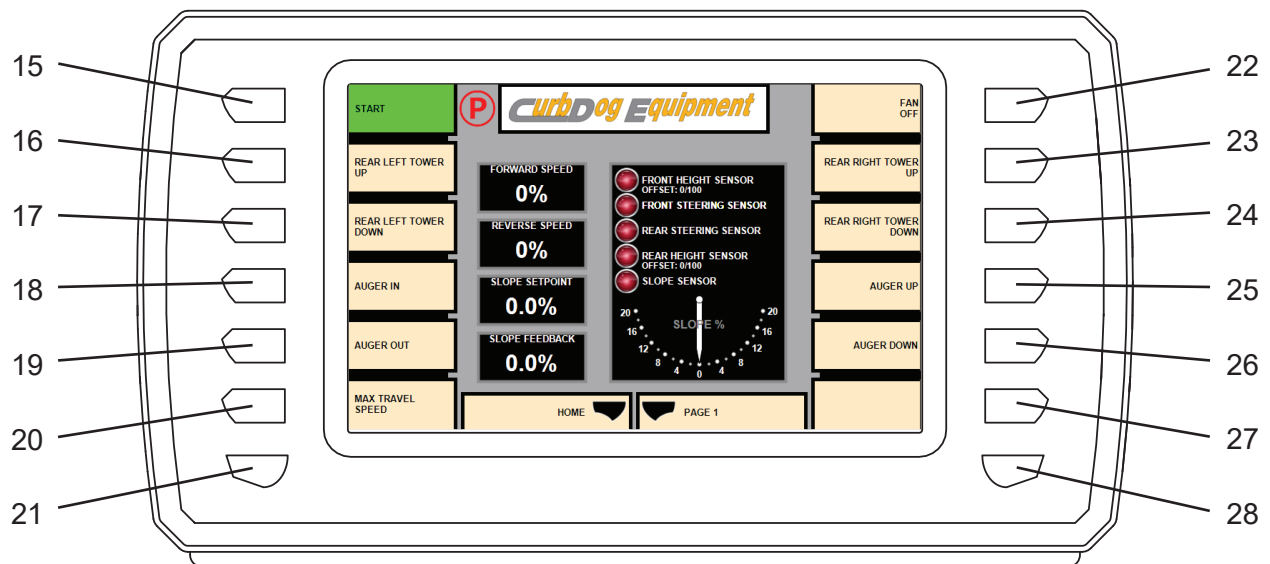
Operational Modes available through the Home Page

- (1) Curbing Mode
- (2) Auger/Hopper Mode
- (3) Travel Mode**
- (4) Diagnostics
- (5) Machine Setup
- (6) Machine Configuration

## TRAVEL MODE



PAGE-1 (Figure 1)



PAGE-2 (Figure 2)

## TRAVEL MODE CONTROL DEFINITIONS

FIG. REF	ITEM	CONTROL NAME	FUNCTION
		<b>PAGE 1</b>	
1	1	START/STOP	Engage/disengage all computer/Travel functions simultaneously
1	2	TRAVEL SPEED UP	Manually increase travel speed
1	3	TRAVEL SPEED DOWN	Manually decrease travel speed
1	4	TRAVEL DIRECTION	Press for forward, again for reverse
1	5	FRONT TOWER UP	Manually raise front of machine
1	6	FRONT TOWER DOWN	Manually lower front of machine
1	7	<b>HOME</b>	<b>Long-press to move to the start-up page</b>
1	8	FRONT STEERING RIGHT	Manually turn front wheels to the right
1	9	FRONT STEERING LEFT	Manually turn front wheels to the left
1	10	REAR STEERING RIGHT	Manually turn rear wheels to the right
1	11	REAR STEERING LEFT	Manually turn rear wheels to the left
1	12	HOPPER UP	Manually raise hopper
1	13	HOPPER DOWN	Manually lower hopper
1	14	<b>PAGE 2</b>	<b>Press to move to Page-2 of Travel Mode</b>
2	15	START/STOP	Engage/Dis-engage computer
2	16	REAR LEFT TOWER UP	Manually raise machine over left rear tire
2	17	REAR LEFT TOWER DOWN	Manually lower machine over left rear tire
2	18	AUGER IN	Manually retract trimming auger
2	19	AUGER OUT	Manually extend trimming auger
2	20	MAX TRAVEL SPEED	Increase machine speed x2
2	21	<b>HOME</b>	<b>Press to move to the startup page</b>
2	22	FAN CONTROL	Fan on/off
2	23	RIGHT REAR TOWER UP	Manually raise machine over right rear tire
2	24	RIGHT REAR TOWER DOWN	Manually lower machine over right rear tire
2	25	AUGER UP	Manually raise trimming auger
2	26	AUGER DOWN	Manually lower trimming auger
2	27		
2	28	<b>PAGE 1</b>	Return to <b>Page 1</b>
2	27		
2	28	<b>PAGE 1</b>	<b>Press to return to Page 1 of Curbing Mode</b>

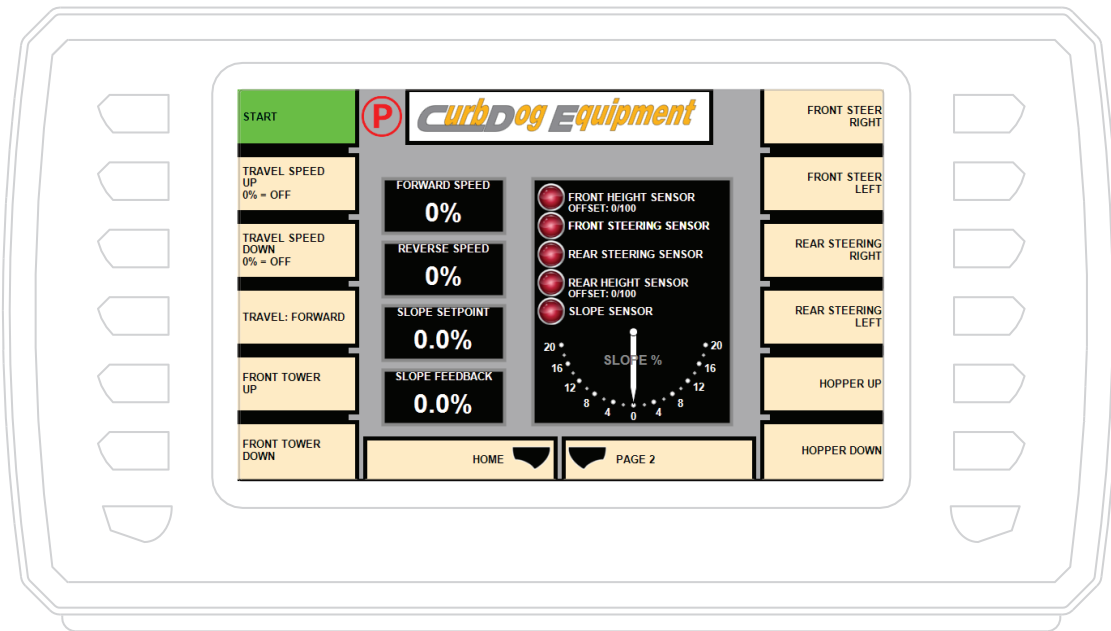
## STARTING THE CD9700

1. Check all fluid/fuel levels
2. Check for obstacles/clearances around the machine
3. Insure hopper-mounted controls are in Neutral/Off position
4. Without starting the machine, turn key to position (I). This will boot the computer and activate the glo-plug.
5. When glo-plug indicator light goes out, turn key to position (II) to engage the starter and start the engine.



## MOVING THE CD9700

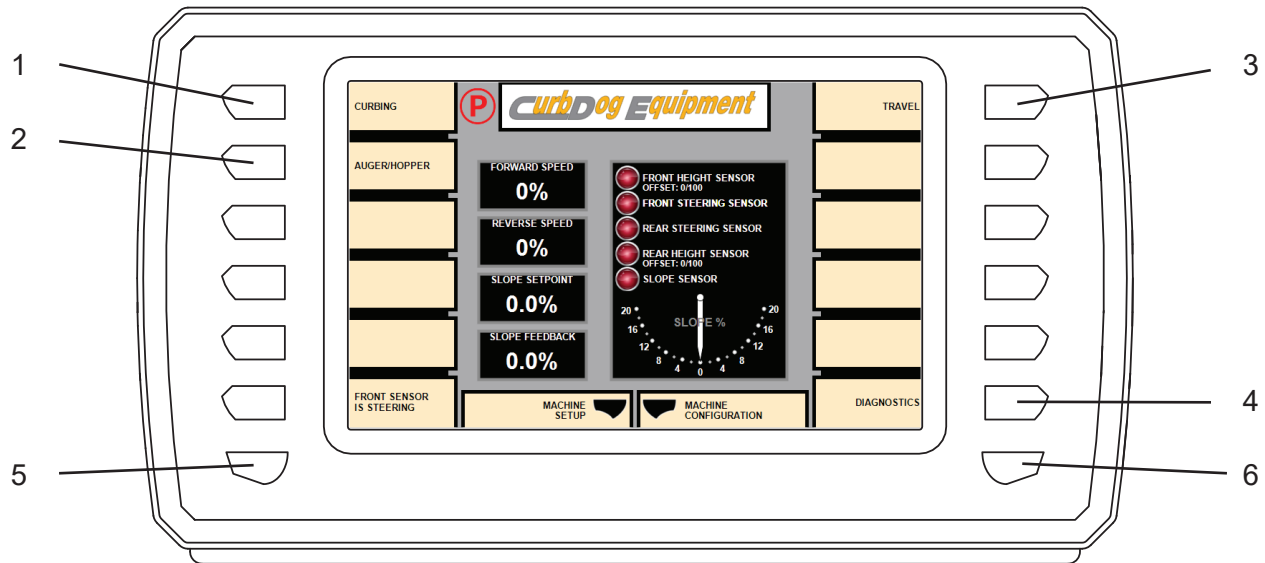
1. At the initial start screen (Figure S1), select **Travel Mode**.
2. Using the **Hopper Up** button (Figure 1-12), raise the hopper and mold up off of the ground as needed.
3. Using the **Front Lift Up/Down** buttons (Figure 1-5 and 1-6) and the **Rear Lift Up/Down** buttons (Figure 2-16 and 2-17), adjust the elevation of the machine over the front and rear wheels as needed.
4. Select the desired direction of travel (Figure 1-4).



5. Engage (Figure 1-1) machine travel, ensure that forward and reverse speeds are set at 0%.
6. Slowly adjust speed up using the **Increase/Decrease Speed** buttons (Figure 1-2 and 1-3). These speed changes will effect the current active travel direction. Do not be in a hurry...take your time and go **SLOW**. A travel speed not exceeding 10% to 15% should be enough for loading/unloading.
7. Adjust steering using the Front Steering buttons (1-8 and 1-9) There shouldn't be any need to manipulate the rear steering at this point.
8. To stop the machine, simply press the Start button (1-1) once again.

## CURBING WITH THE CD9700

Accessed through the Home page after initial boot when the machine is tuned on, **Curbing Mode (1)** makes all of the basic functions available as well as all Curbing Functions through the control panel. These include: Front, Rear and Tight Radius Steering Sensors, Height Sensor, Cross-Slope Sensor, Vibrator Control/Speed and Hydraulic Fluid Cooling Fan.

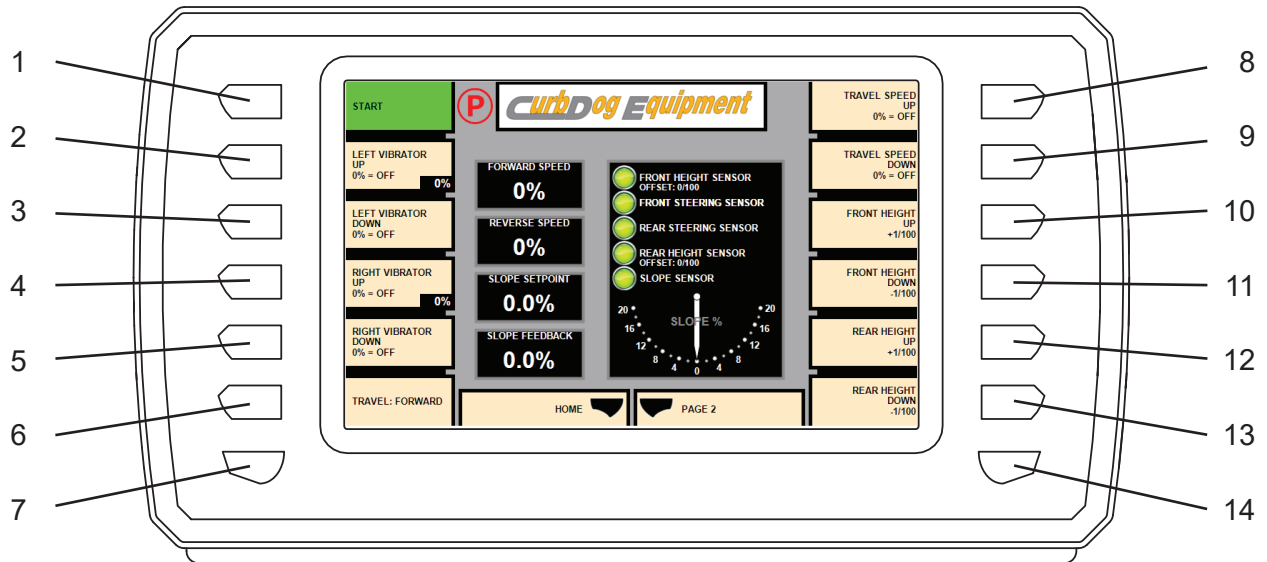


INITIAL START PAGE (Figure S2)

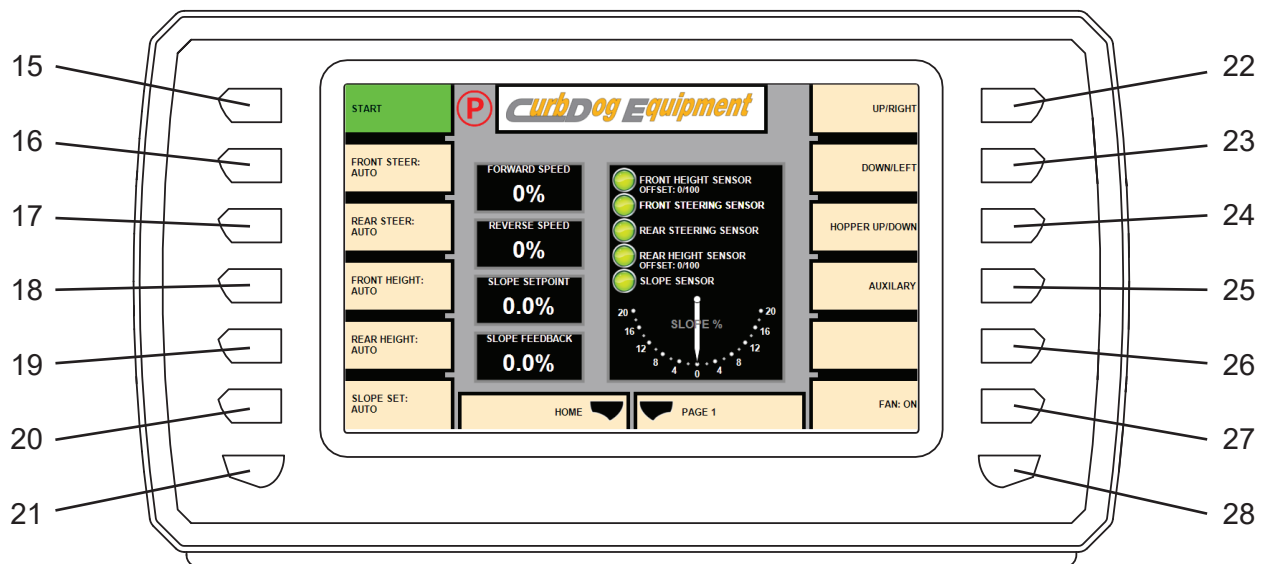
Operational Modes available through the Start Page

- (1) **Curbing Mode**
- (2) Auger/Hopper Mode
- (3) Travel Mode
- (4) Diagnostics
- (5) Machine Setup
- (6) Machine Configuration

## CURBING WITH THE CD9700



PAGE-1 (Figure-3)



PAGE-2 (Figure 4)

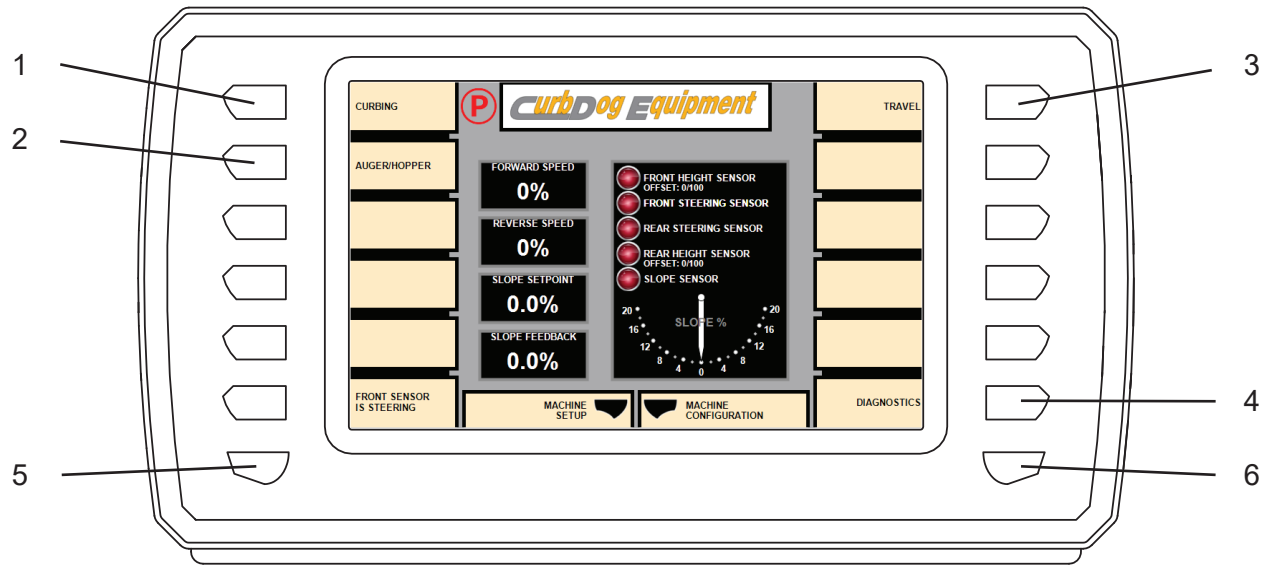
## CURBING CONTROL DEFINITIONS

FIG. REF	ITEM	CONTROL NAME	FUNCTION
3	1	START /STOP	Engage/disengage all computer/curbing/Travel functions simultaneously
3	2	LEFT VIBRATOR UP	Single press select. Allows for speed increase adjustment...0% is off
3	3	LEFT VIBRATOR DOWN	Single press select. Allows for speed decrease adjustment...0% is off
3	4	RIGHT VIBRATOR UP	Single press select. Allows for speed increase adjustment...0% is off
3	5	RIGHT VIBRATOR DOWN	Single press select. Allows for speed decrease adjustment...0% is off
3	6	TRAVEL DIRECTION	Press for forward, again for reverse
3	7	<b>HOME</b>	<b>Long-press to move to the start-up page</b>
3	8	TRAVEL SPEED UP	Incremental increased travel speed adjustment...0% is off
3	9	TRAVEL SPEED DOWN	Incremental decreased travel speed adjustment...0% is off
3	10	FRONT HEIGHT UP	Incremental front height adjustment - up
3	11	FRONT HEIGHT DOWN	Incremental front height adjustment - down
3	12	REAR HEIGHT UP	Incremental rear height adjustment - up
3	13	REAR HEIGHT DOWN	Incremental front height adjustment - down
4	14	<b>PAGE 2</b>	<b>Press to move to Page-2 of Curbing Mode</b>
4	15	START /STOP	Engage/disengage all computer/curbing functions simultaneously
4	16	FRONT STEER	Front steer sensor on/off/manual
4	17	REAR STEER	Rear steer sensor on/off/manual
4	18	FRONT HEIGHT	Front height sensor on/off/manual
4	19	RIGHT HEIGHT	Rear height sensor on/off/manual
4	20	SLOPE SET	Select to manually adjust cross-slope offsets in 10ths - auto/off/manual adjustment
4	21	<b>HOME</b>	<b>Long-press to move to the start-up page</b>
4	22	UP/RIGHT	Adjust Slope Offset (#20 Figure 4), Hopper (#24 Figure 4) up
4	23	DOWN/LEFT	Adjust Slope Offset (#20 Figure 4), Hopper (#24 Figure 4) down
4	24	HOPPER	Single press select. Manually adjust hopper height using the "UP" and "DOWN" buttons (#22 and #23 Figure 4)
4	25	AUXILARY	Highlight to operate with UP and DOWN buttons (Figure 4 #22 and #23)
4	26		
4	27	FAN	Fan on/off
4	28	<b>PAGE 2</b>	<b>Press to RETURN to Page-1 of Curbing Mode</b>



## TRIMMING WITH THE CD9700

Accessed through the Home page after initial boot when the machine is tuned on, **Auger/Hopper Mode (2)** makes all of the basic functions available as well as all Trimming Functions through the control panel. These include: Front, Rear and Tight Radius Steering Sensors, Height Sensor, Cross-Slope Sensor, Auger In-Out, Auger Up-Down and Hydraulic Fluid Cooling Fan.

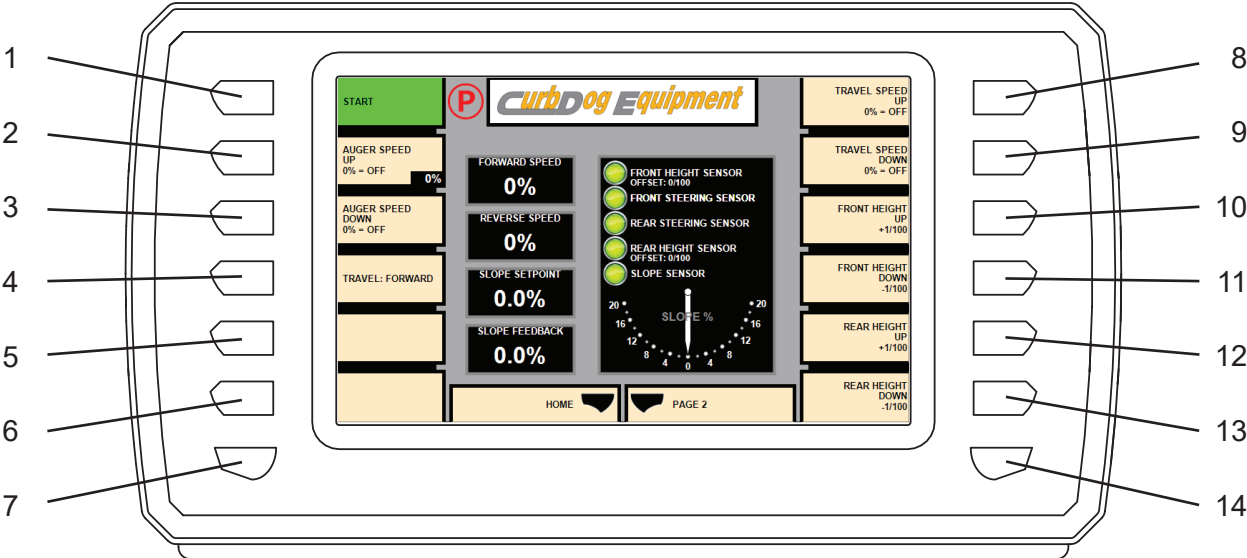


INITIAL START PAGE (Figure S2)

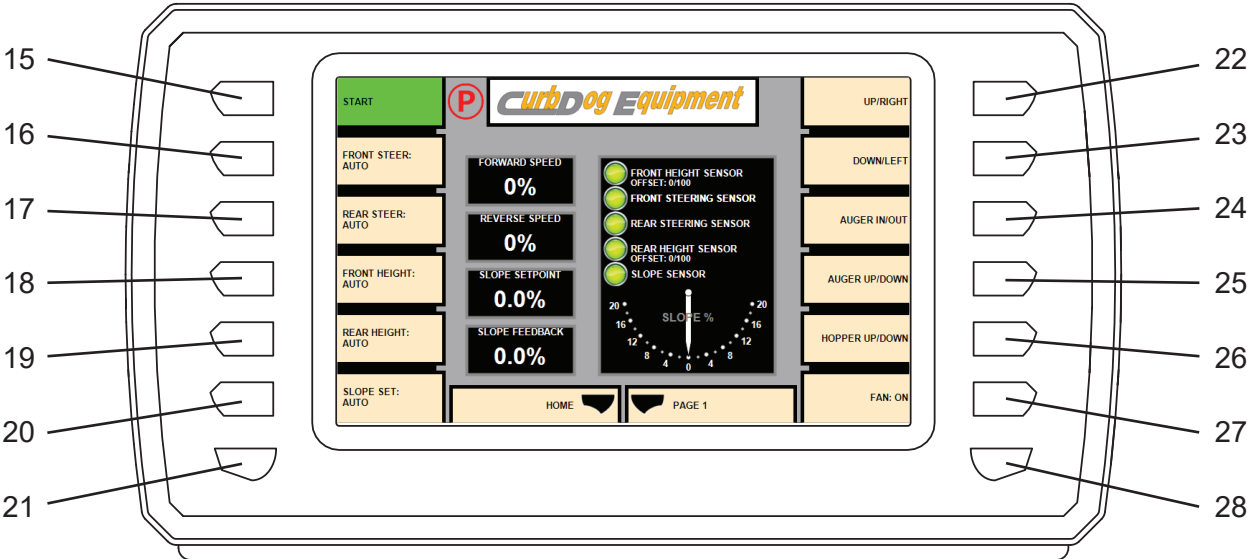
Operational Modes available through the Start Page

- (1) Curbing Mode
- (2) Auger/Hopper Mode**
- (3) Travel Mode
- (4) Diagnostics
- (5) Machine Setup
- (6) Machine Configuration

TRIMMING WITH THE CD9700



PAGE-1 (Figure-5)



PAGE-2 (Figure 6)

## TRIMMING CONTROL DEFINITIONS

FIG. REF	ITEM	CONTROL NAME	FUNCTION
5	1	START /STOP	Engage/disengage all computer/curbing/Travel functions simultaneously
5	2	AUGER SPEED UP	Increase trimming auger speed incrementally...0% off
5	3	AUGER SPEED DOWN	Decrease trimming auger speed incrementally...0% is off
5	4	TRAVEL	Single press to switch between reverse and forward.
5	5		
5	6		
5	7	<b>HOME</b>	<b>Long-press to move to the start-up page</b>
5	8	TRAVEL SPEED UP	Increase travel speed incrementally...0% is off
5	9	TRAVEL SPEED DOWN	Decrease travel speed incrementally...0% is off
5	10	FRONT HEIGHT UP	Increase machine height over the front wheels
5	11	FRONT HEIGHT DOWN	Decrease machine height over the front wheels
5	12	REAR HEIGHT UP	Increase machine height over left rear tower
5	13	REAR HEIGHT DOWN	Decrease machine height over left rear tower
6	14	<b>PAGE 2</b>	<b>Press to move to Page-2 of Curbing Mode</b>
6	15	START /STOP	Engage/disengage all computer/curbing functions simultaneously
6	16	FRONT STEER	Front steering sensor auto/off/manual
6	17	REAR STEER	Rear steering sensor auto/off/manual
6	18	FRONT HEIGHT	Front height sensor auto/off/manual
6	19	REAR HEIGHT	Rear height sensor auto/off/manual
6	20	SLOPE SET	Single press select. Manually adjust the cross-slope attitude using the "UP" and "DOWN" buttons (#22 and #23 Figure 6) - auto/off/manual
6	21	<b>HOME</b>	<b>Long-press to move to the start-up page</b>
6	22	UP/RIGHT	Adjust Slope Offset (#20 Figure 6) up
6	23	DOWN/LEFT	Adjust Slope Offset (#20 Figure 6) down
6	24	AUGER IN/OUT	Extend/retract trimming auger using RIGHT and LEFT buttons (#22 and #23 Figure 6)
6	25	AUGER UP/DOWN	Press to select - Raise or lower using UP and Down buttons (#22 and #23 Figure 6)
6	26	HOPPER UP/DOWN	Press to select - Raise or lower using UP and Down buttons (#22 and #23 Figure 6)
6	27	FAN	Cooling fan control on/off
6	28	<b>PAGE 2</b>	<b>Press to RETURN to Page-1 of Curbing Mode</b>

## CURBING WITH THE CD9700

1. In **Travel Mode**, position the curber such that the outside edge of the mold is approximately the correct distance from the stringline.
2. Adjust the Front, Rear and Tight Radius Sensor Brackets so that sensor wands are the correct distance from the outside of the mold to the stringline when in vertical position.
3. Return to the Home page, Press the **CURBING MODE** button (Figure S2-1).
4. Move to **PAGE 2** by pressing the **PAGE** button and then press the **HOPPER** button (Figure 4-24) to highlight. Lower the mold to the ground using the **DOWN** button (Figure 4-23).
5. Adjust the Height Sensor Bracket so that the center of the sensor arm is level with the stringline.
6. Insure that all sensors are activated (Figure 4-16,17,18,19 and 20). To ensure that front and rear wands are set correctly, activate the **START** button...The sensors will activate and move the machine towers. If adjustments to front height, rear height and slope need to be made, adjust sensor placement prior to curbing.
7. Return to **PAGE 1** by pressing the **PAGE** button.
8. Set the machine travel direction by pressing the **TRAVEL DIRECTION** button (Figure 3-6). Long press the same button to activate direction choice
9. Engage **START** button as concrete is being poured into hopper
10. Engage vibrators by by setting speed above 0% (Figure 3-2,3,4 and 5)...Adjust vibrator speed as need to get concrete flowing evenly through slipform mold.
11. Set the machine forward speed by pressing the **FORWARD SPEED CONTROL UP/DOWN** buttons (Figure 3-8 and 3-9) to increase/decrease the machine speed once the concrete begins to move through the back of the slipform mold.

### NOTE:

At any time during operation, pressing the **START** button again will “pause” the machine, thereby suspending machine operations. Vibrators and travel will stop allowing for some “Fine Tuning” of machine settings. Pressing the **START** button yet again will resume all machine/vibrator functions and travel

## NOTES: HOPPER MOUNTED CONTROLS

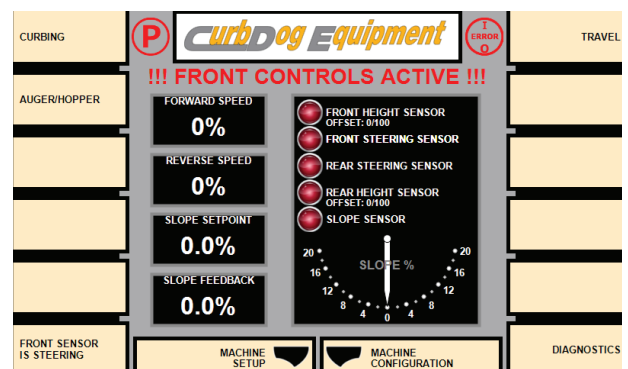
**ON** - Activates forward controls...Forward controls will override rear display operation. When activated, the rear controller will display a large, red warning indicating that forward controls are engaged.

**OFF** - Returns machine operation to rear display and acts as an emergency shut-off in forward control mode.

**FORWARD** - Sets travel direction to **FORWARD**

**REVERSE** - Sets travel direction to **REVERSE**

**Hopper steering controls only affect front wheels.**



## TRIMMING WITH THE CD9700

1. In **TRAVEL MODE**, position the curber such that the outside edge of the mold is approximately the correct distance from the stringline.
2. Adjust the Front, Rear and Tight Radius Sensor Brackets so that sensor wands are the correct distance from the outside of the mold to the stringline when in vertical position.
3. Return to the Home page, Press the **AUGER/HOPPER** button (Figure S2-2) and then move to **PAGE 2** by pressing the **PAGE** button (Figure 5-14)
4. Adjust the Height Sensor Bracket so that the center of the sensor arm is level with the stringline.
5. Insure that all sensors are activated (Figure 6-16,17,18,19 and 20).
6. Return to **PAGE 1** by pressing the **PAGE** button.
7. Lower Auger by pressing **AUGER UP/DOWN** (Figure 6-23) button to select and then the **DOWN/LEFT** button (figure 6-23) until desired height is reached.
8. Raise hopper to ensure auger clearance by pressing the **HOPPER UP/DOWN** button (Figure 6-26) to select and then the **UP/RIGHT** button (Figure 6-22) until desired height is reached and then extend the auger by pressing the **AUGER IN/OUT** button (Figure 6-24) and then **DOWN/LEFT** (Figure 6-23)
9. Set the auger rotation speed by pressing the **AUGER SPEED UP**(Figure 5-2) and **AUGER SPEED DOWN** (Figure 5-3) for adjustment. 0% is off
9. Set the machine travel direction by pressing the **TRAVEL** button (Figure 5-4).
10. Set the machine forward speed by pressing the **TRAVEL SPEED UP/DOWN** buttons (Figure 5-8 and 5-9) to increase/decrease the machine speed.
11. Press the **START** button (Figure 3-1) to start trimming, starting auger and forward travel.

### NOTE:

At any time during operation, pressing the **START** button again will “pause” the machine, thereby suspending machine operations. Vibrators and travel will stop allowing for some “Fine Tuning” of machine settings. Pressing the **START** button yet again will resume all machine/vibrator functions and travel

### NOTES:

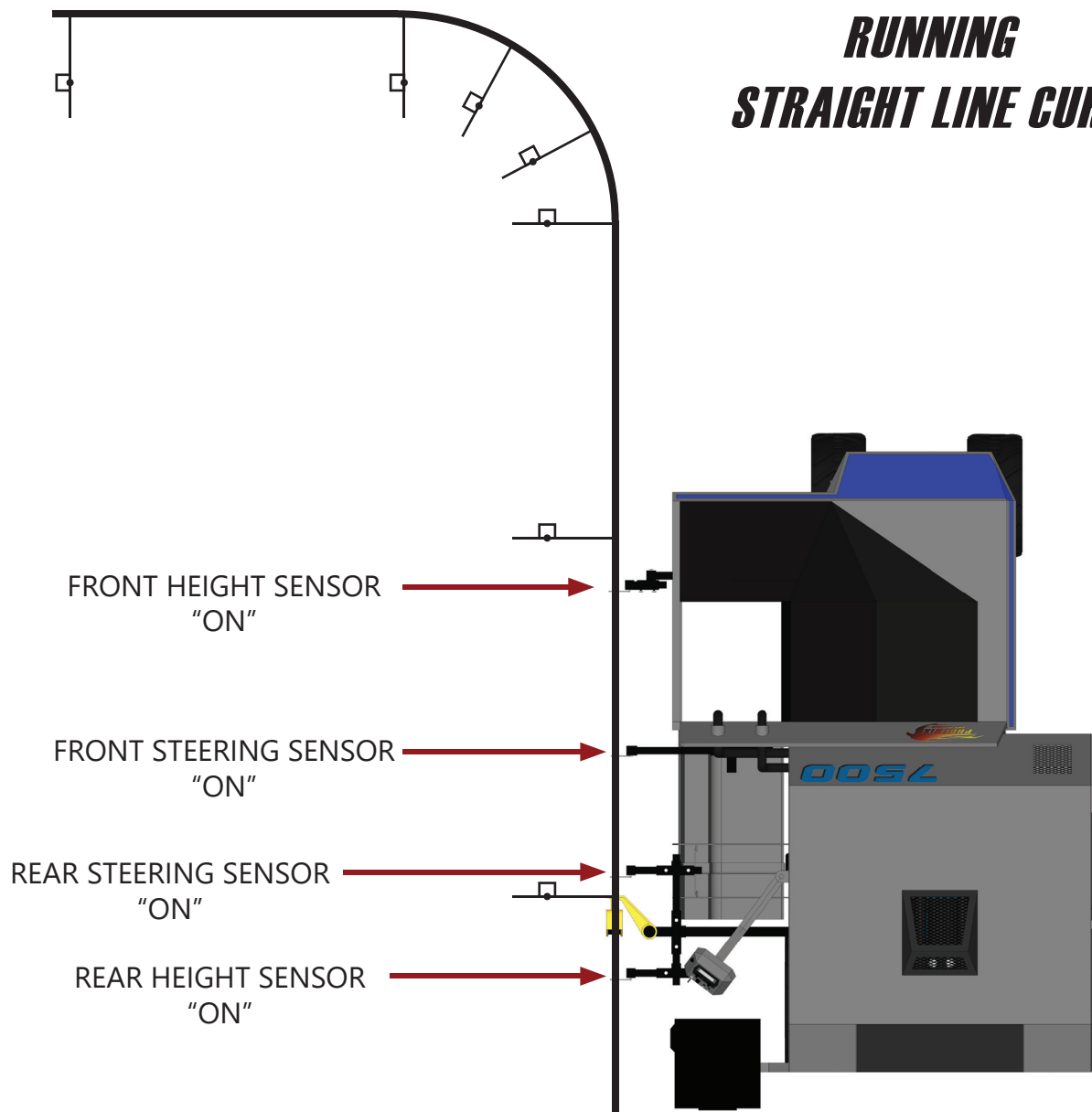
**NOTES:**

# ***CurbDog Equipment***

## ***CD9700***

### ***RUNNING THE STRING LINE***

***CONFIGURATION FOR  
RUNNING  
STRAIGHT LINE CURB***

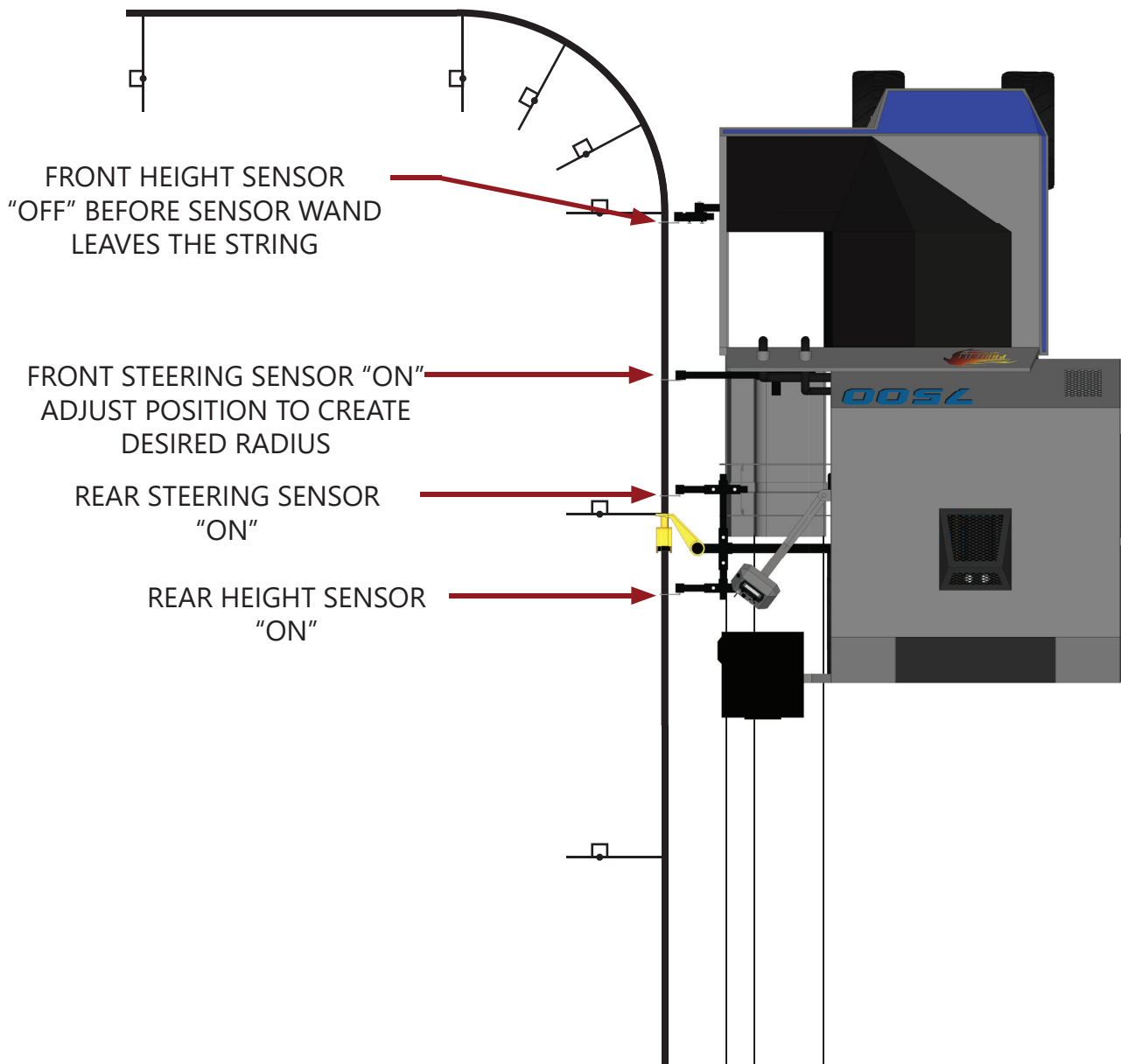


# *CurbDog Equipment*

## **CD9700**

### ***RUNNING THE STRING LINE***

***WHEN APPROACHING THE  
BEGINING OF THE RADIUS***

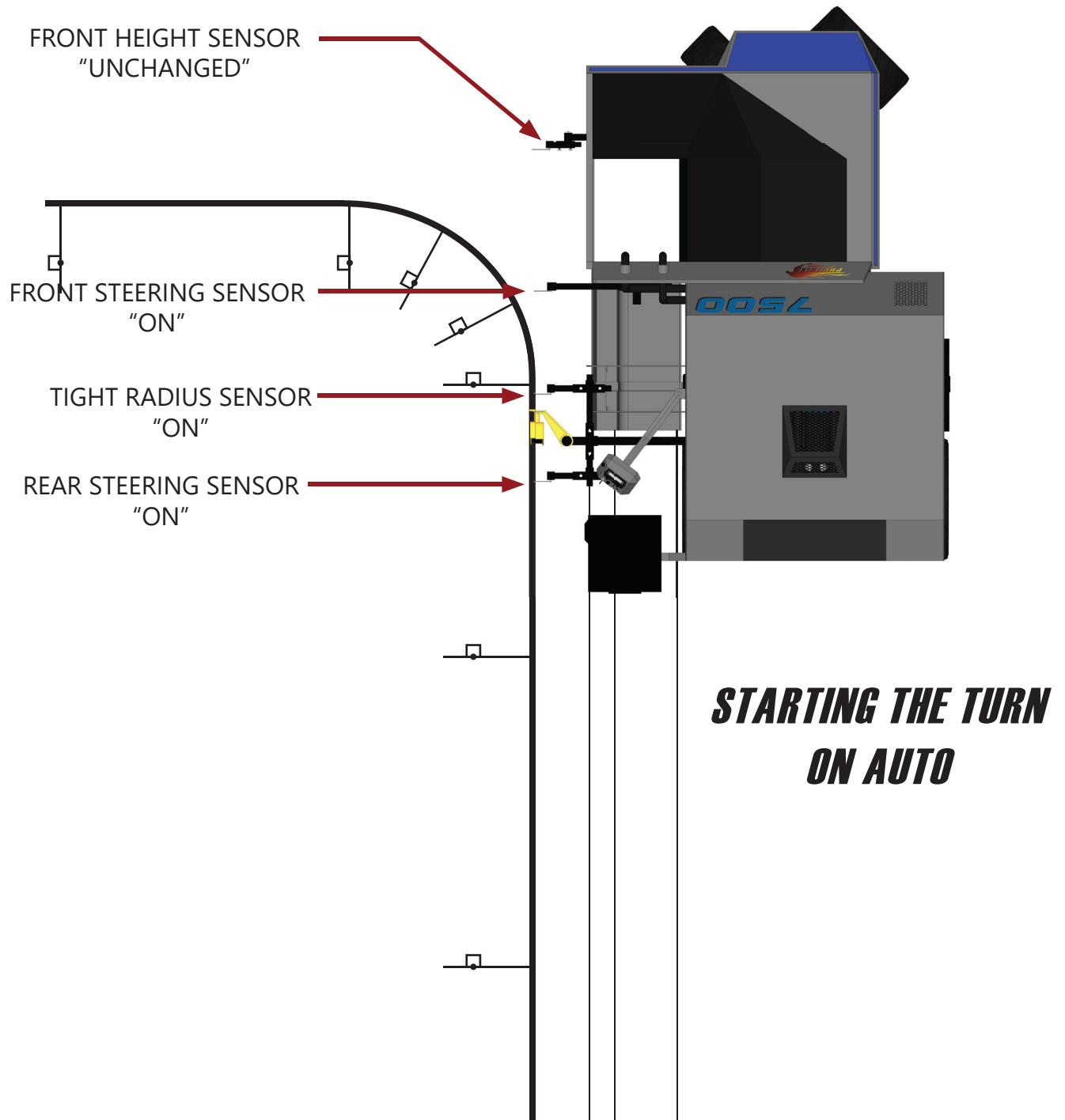




# *CurbDog Equipment*

## **CD9700**

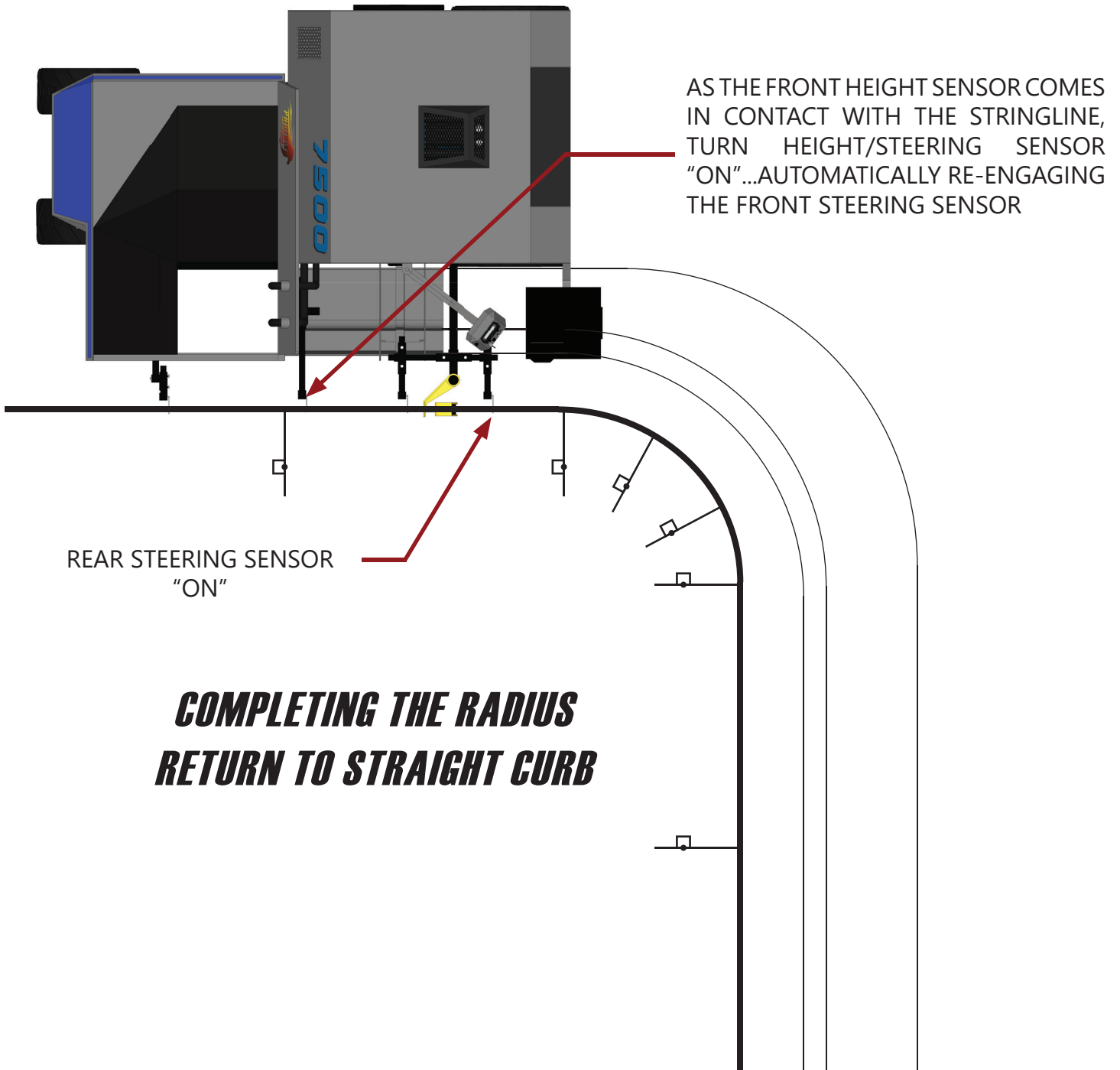
### ***RUNNING THE STRING LINE***



# *CurbDog Equipment*

## *CD9700*

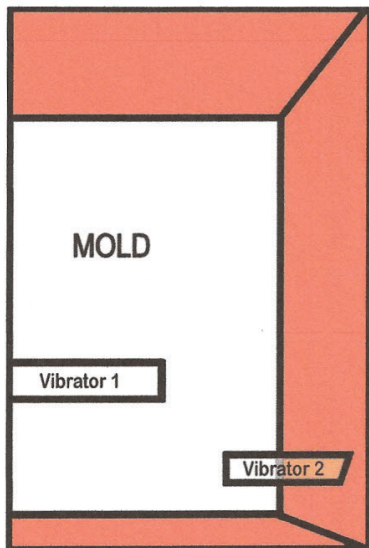
### ***RUNNING THE STRING LINE***



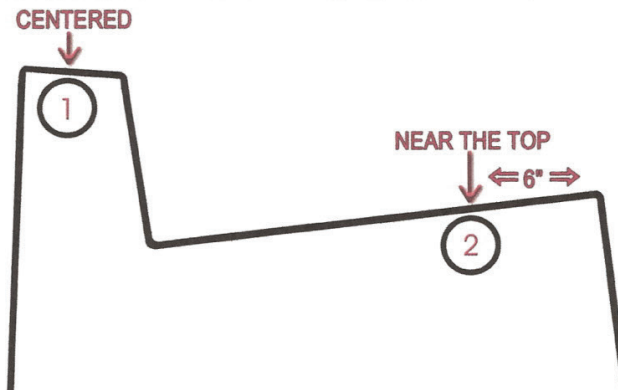
# *CurbDog* Equipment

## **CD9700**

### **VIBRATOR PLACEMENT**



VIBRATOR LOCATION IS VERY IMPORTANT BECAUSE VIBRATION IS THE ENERGY USED TO CONSOLIDATE THE CONCRETE AND MAKE THE CURB STAND UP. LIKE ANYTHING THAT GENERATES POWER, IT MUST BE PLACED IN THE OPTIMUM LOCATION. LIKE LIGHT, THE ENERGY RADIATES OFF THE TIP OF THE VIBRATOR IN ALL DIRECTIONS. THE BEST LOCATION FOR THE VIBRATOR IS AS INDICATED IN THESE TYPICAL DRAWINGS.



IF YOU CAN'T SEE THE TIP OF THE VIBRATOR BY LOOKING INTO THE BACK OF THE MOLD, ADJUSTMENTS MUST BE MADE. VIBRATOR ONE IS FARTHEST FROM THE MACHINE.

