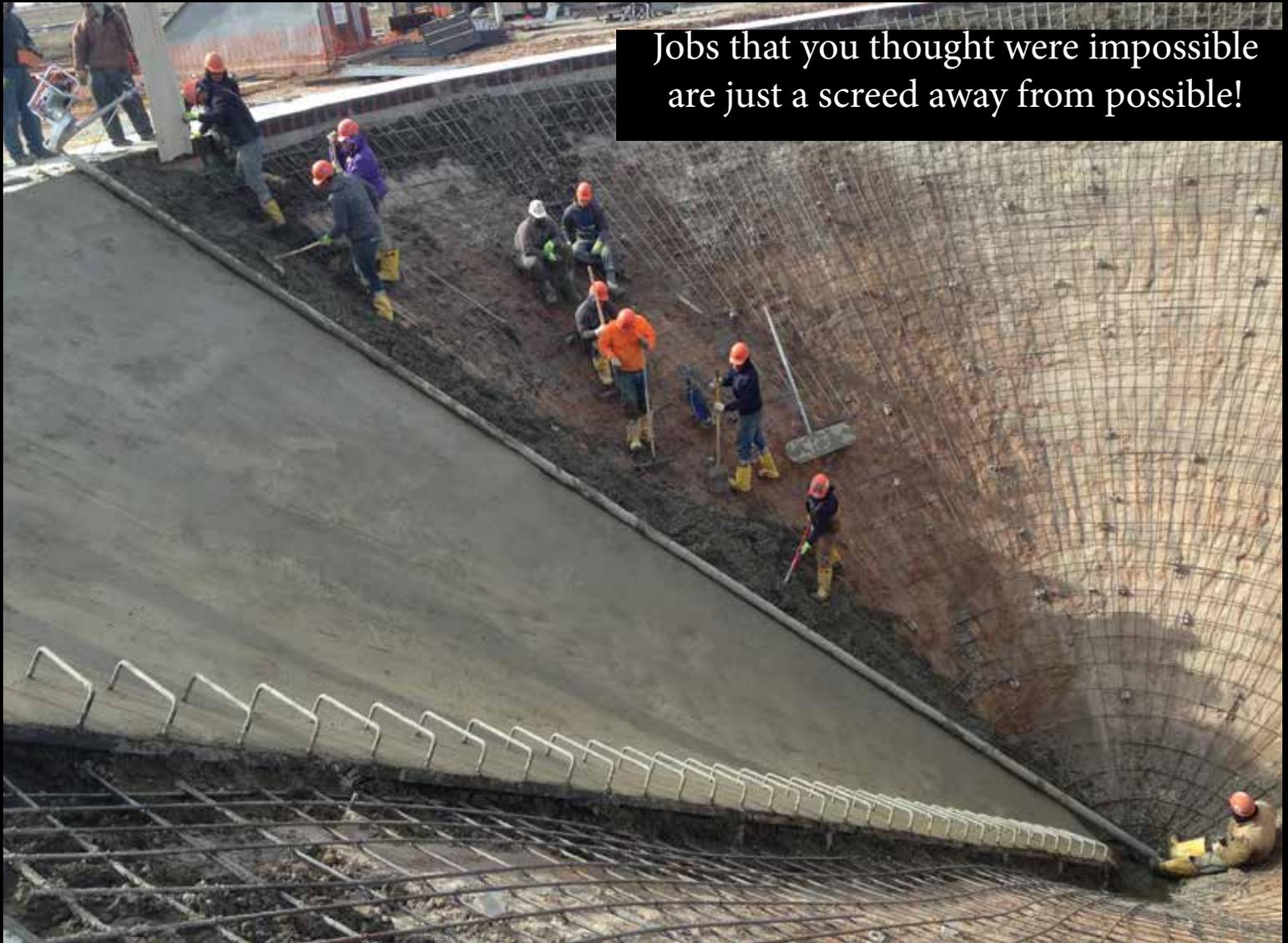




The BEST SCREEDING SYSTEM on the market!  
STRAIGHTER TUBES than any other roller screed!  
ADAPTS TO DIFFERENT SIZES because the tubes couple together or thread together!  
-“POUND FOR POUND AND DOLLAR FOR DOLLAR, the BEST SCREED AVAILABLE!” - Larry Bernard - LA



Jobs that you thought were impossible are just a screed away from possible!

# TESTIMONIALS

"WE USE LESS PEOPLE AND IT TAKES HALF THE TIME."  
-NORTHER GRAIN IMPROVEMENT



"WITH IDEAL CONDITIONS AN EIGHT MAN CREW CAN POUR 1000 YDS IN A 10 HOUR DAY AND THE MOBILITY IS TREMENDOUS."

-GHILLOTI CONSTRUCTION



WE HAVE REDUCED THE CREW, LESSEMED THE BACK ISSUES, AND LOVE THE VERSATILITY.

I HONESTLY CANNOT UNDERSTAND WHY ANYONE WOULD USE ANYTHING ELSE BUT THE LIGHTNING STRIKE™!

-JON BAYMAN, CAMRUD FOSS

IN ALASKA, WE HAVE A SMALLER WINDOW OF OPPORTUNITY TO GET THE WORK DONE. JUST TO KEEP UP, I HIRED ON MORE CREW BECAUSE WE COULD CONSISTENTLY PLACE MORE CONCRETE IN A DAY.

-JESSE WEST, WEST CONSTRUCTION



**THE LEADERS IN ROLLER SCREED INNOVATION**

**Quick, Easy, Accurate!**

# History of Lura Enterprises!

**Work smarter with the most efficient and versatile screeding system on the market.**

This system can **reduce your crew size** and at the same time **increase the amount of cubic yards** you place in a day.

With all of our tubes being **true to 20/1000 of an inch**, it will be the flattest concrete you have ever poured.

You will be able to grow your business by being able to bid bigger jobs with a wider range of versatility such as sloped pours and super flat concrete!

This Screed System was developed by Dennis Lura who was a General Contractor out of Fargo ND with 25 years of experience. His crew had to be able to do professional work on many different types of jobs from framing buildings to pouring concrete. He had to find tools that could help his crew maintain a high level of quality in every phase of construction. There was no screed on the market that he felt delivered what he needed and he had tried them all.

Dennis needed a screed that could pour very flat concrete no matter how wide the pour was. The screed had to be easy to operate so any new crew member could operate it. The screed also had to be fast, easy to transport, capable of delivering flat concrete to a wide range of pours (circular, flat or sloped).

Truss screeds were too heavy and hard to transport, they also took too long to clean.

He did not like the weed wacker screeds because they could not deliver flat concrete as fast or as wide as he needed and the concrete needed to be very wet in order for the the weed wacker screed to even work. They also require at least 3 experienced men, one on either side of the operator. This wasn't always possible and some time's very frustrating. Today, it is so difficult to find people that are willing to work or that have any experience in construction!

It has become even more important to use tools that can help make the job more profitable and easier to complete professionally with crew that have little or no experience.

The development of the Lura Stryker screed started with a need (necessity being the mother of invention) that Dennis Lura had but many contractors around the world have added very useful improvements over the years to make this a one of a kind screed system that has a wide range of time and labor saving attachments.

## **September 2012:**

Using in combination the Lightning Strike™ roller screed and Mako FinCap system, Lura Enterprises more than exceeded expectations on this Kia plant pour.

**The FF/FL criteria: 45/35**

### *Our results:*

**30' pour 84/57**

**15' pour 61/48**



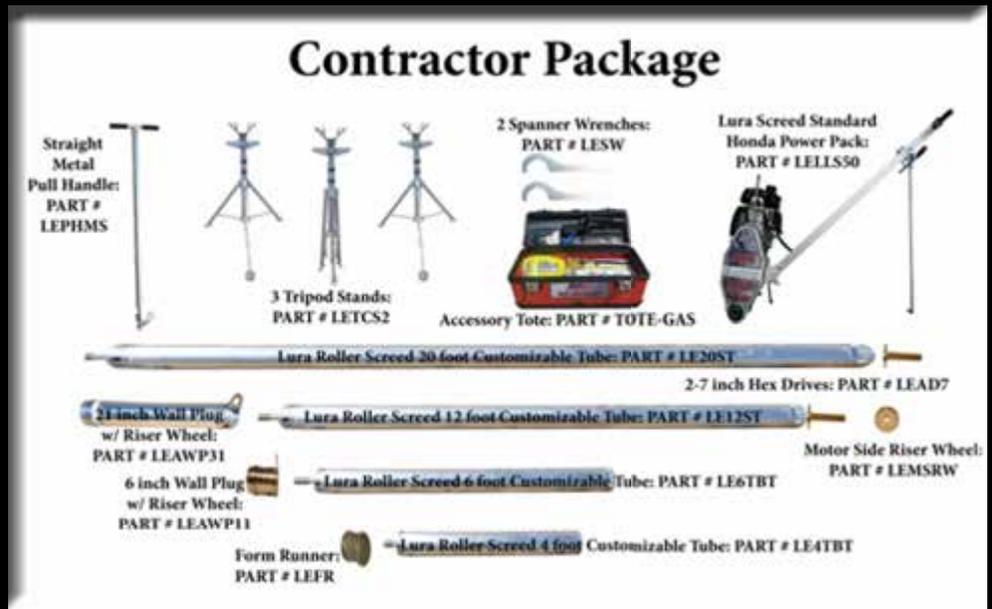
# PACKAGES

FINANCING AVAILABLE

## CONTRACTORS PACKAGE

- 1-50cc Gas Motor Assembly
- 1-20' Screed Tube
- 1-12' Screed Tube
- 1-6' Screed Tube
- 1-4' Screed Tube
- 1- 6" and 21" Wall Plugs
- 3-Tripod Stands
- 1-Pull Handle
- 1-Motor Side Riser Wheel
- 1-T Handle
- 2-Hex Driver
- 25-Mako FinCaps and Driver
- 1-Tote with accessories
- 1-Form Runner

We designed the Contractor Package to eliminate confusion about what to use for each application by putting everything into one convenient bundle. The Lightning Stryker's Contractor Package gives concrete professionals the power to do the job today and versatility to face the pours of tomorrow. It has over 15 different screed length options to adapt to most any pour!



# SLOPED POURS

There are several ways to approach a sloped pour. One method is to start at the top of the pour and let gravity help with the screeding. With the Lightning Stryker contractors have been able to strike off slopes as steep as 40 degrees and 25' wide passes. Some contractors will run on screed rails or screed pipes on both ends of the screed for a more accurate Monolithic placement and some will use our patented Wet Screed Shoe for a faster placement and there will be no screed pipe to fill. The motor should be on the right hand side as you are backing down the hill. This will help keep the pipes from loosening because the threaded coupler joint has right handed threads. If you need to have the motor on the left side of the pour you need to make sure that the Set Screws are SET on the female side of the coupler joint. When the pour is done you will need to make sure you release these Set Screws.

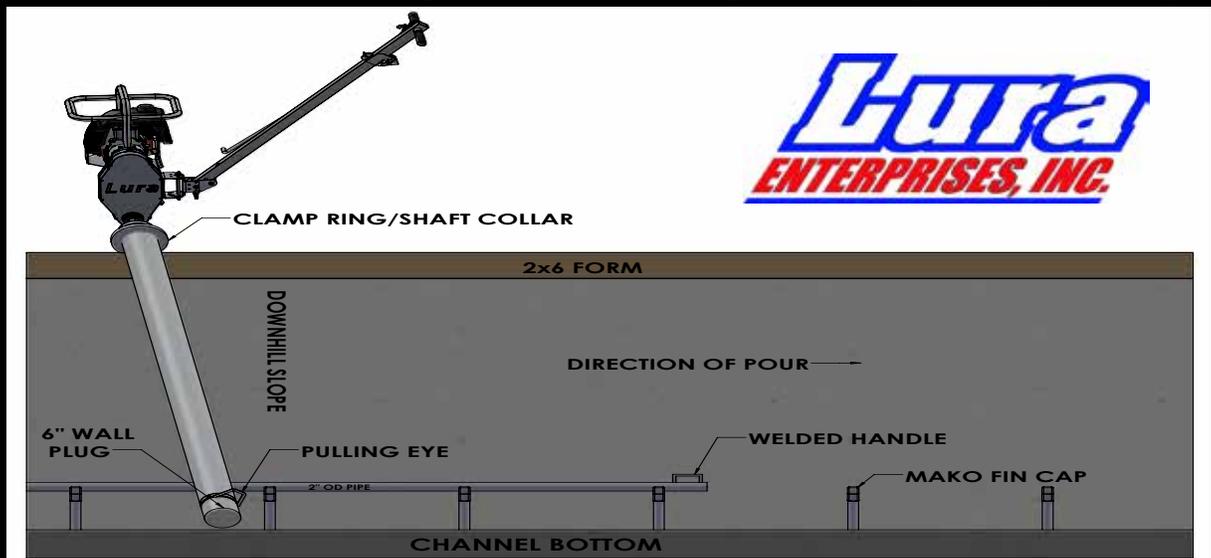


## Channel or Canal Slopes

On Channel or Canal slopes some contractors will make up 2 or 3 jigs that can span from one side of the canal to the other and hang on the form on either side of the pour. The jig is usually made from  $\frac{1}{4}$  "or  $\frac{3}{8}$ " thick steel by 2" or 3" deep. After one bay is poured you should be able to put a man on both sides of the pour and lift the jig. You should not need to fill where the jig was just bull float from above on the sloped sides and bull float the bottom of the channel by standing in the bottom of the next bay.

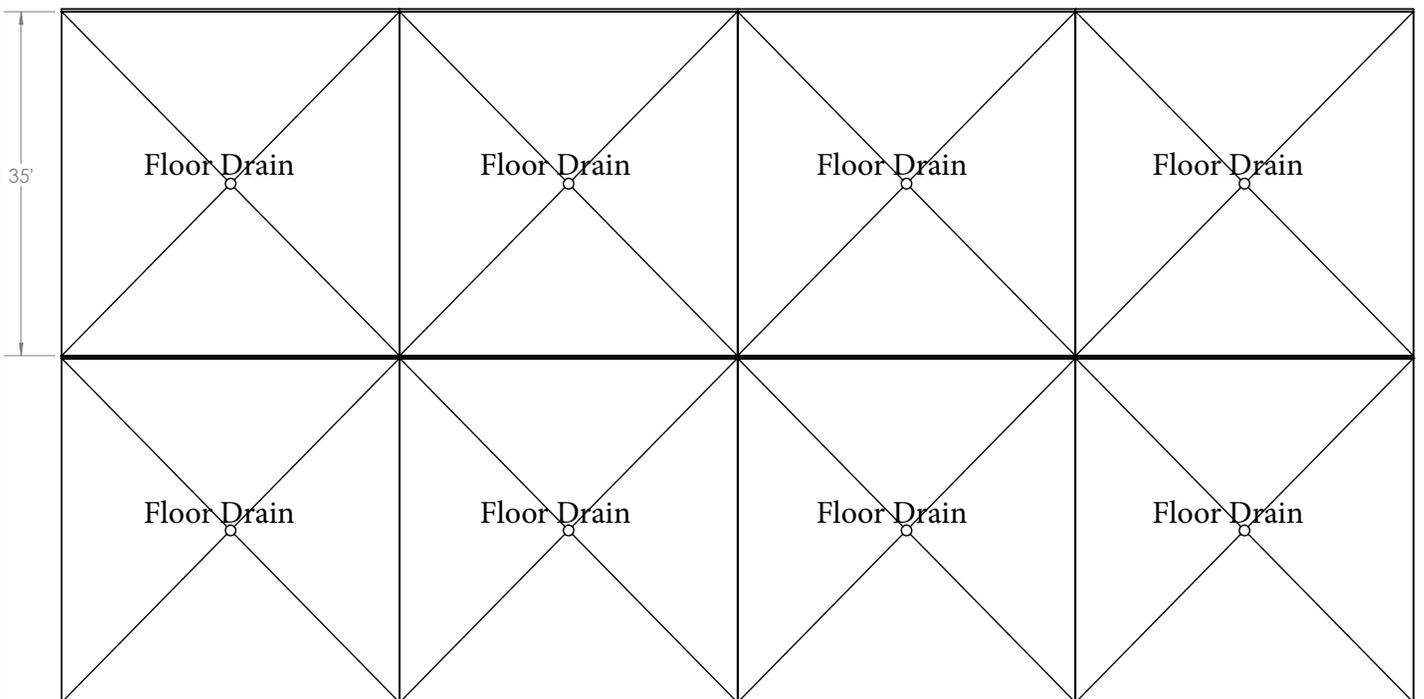
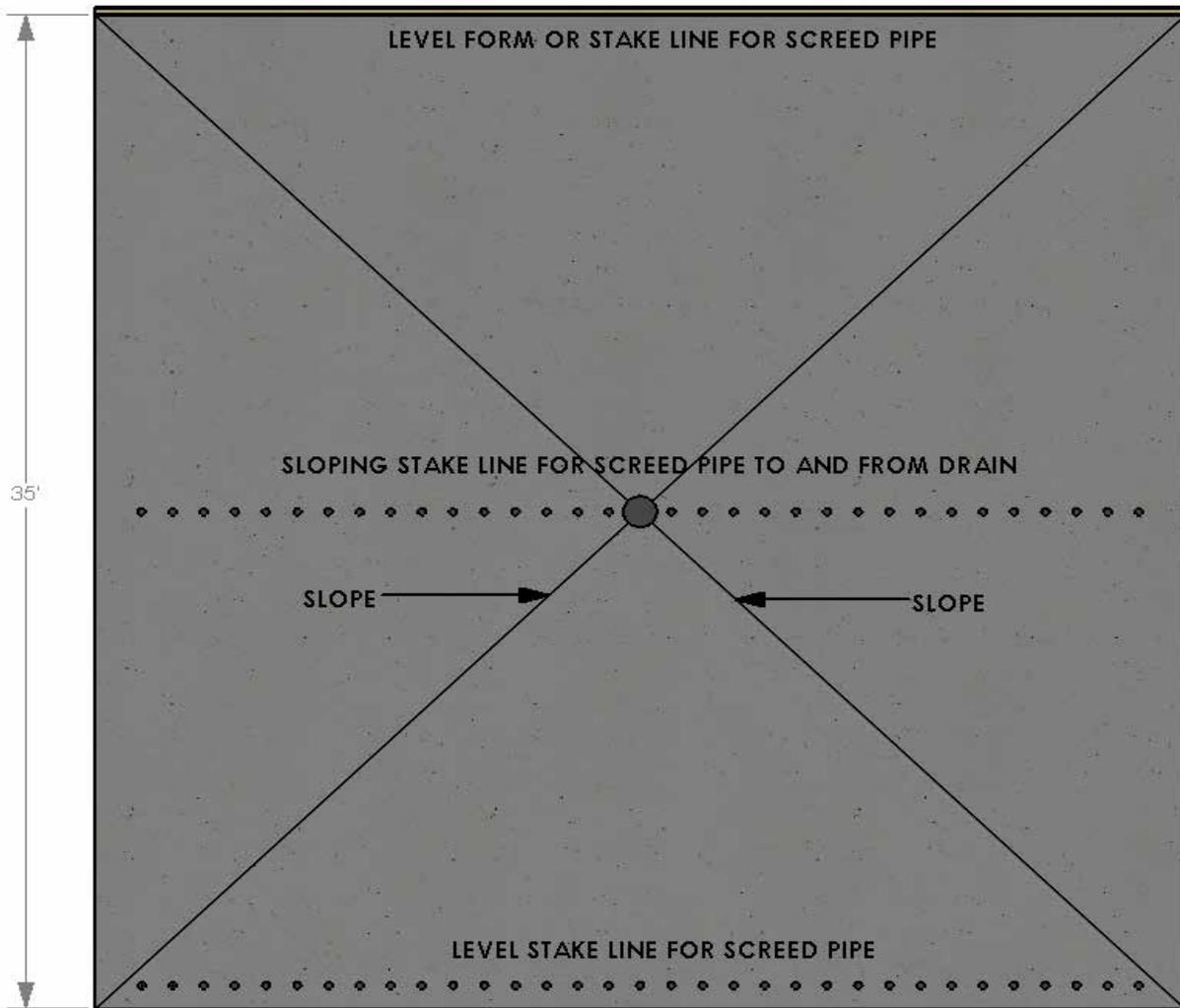
## Horizontal Slope pours

With side hill pours in order to control the gravity trying to pull the tube down we would recommend using a Clamp Ring on the tube at the top of the form and a screed pipe or screed rail near the bottom of the pour to control the height of the tube and thickness of the pour. Contractors have poured as steep as 37 degrees using this method.



# Drain Pour Diagram

The diagram below shows how to set up a drain pour on a small or large scale!



# PACKAGES

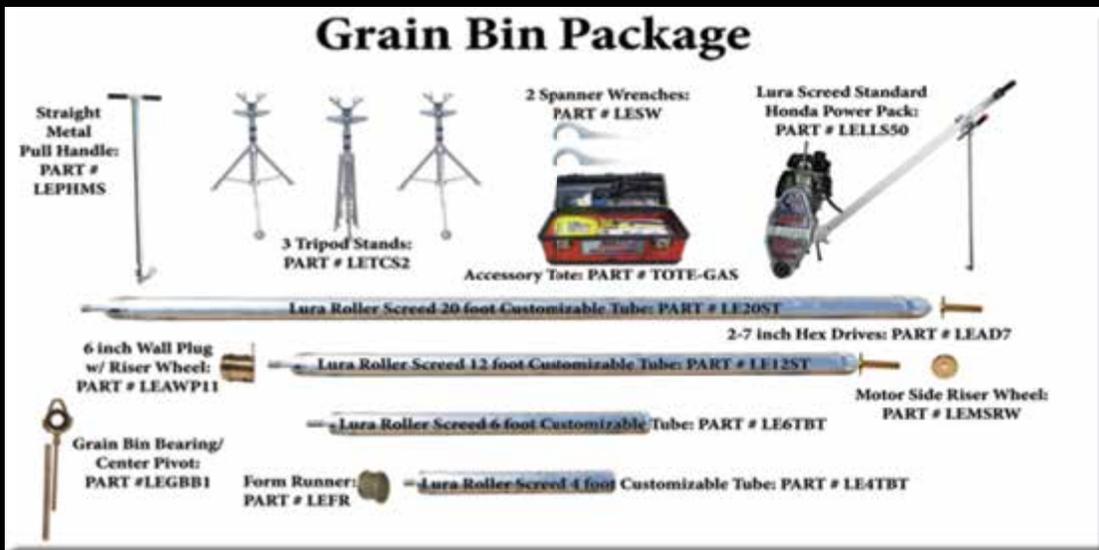
## GRAIN BIN PACKAGE

FINANCING AVAILABLE

- 1-50cc Gas Motor Assembly
- 1-20' Screenshot Tube
- 1-12' Screenshot Tube
- 1-6' Screenshot Tube
- 1-3' Screenshot Tube
- 1-6" Wall Plug
- 3-Tripod Stands
- 1-Form Runner
- 1-Pull Handle
- 2- Hex Drivers
- 1-Tote with accessories
- 25-Mako FinCaps and Driver
- 1-Center Pin Pivot/Grain Bin Bearing



This package offers everything needed for grain bin application in one convenient bundle. The beauty of this bundle is that crews can customize to just about any grain bin or circular pour out there.



# CIRCULAR POURS

Center Pin Pivot



PART # LEGBB1



**Center pin pivot (Patented) –** The center pin pivot has revolutionized how contractors do circular pours. This simple invention allows the center to be adjusted to the desired height and removes the need for an additional person, which reduces labor costs.

The Lura roller screed aluminum/magnesium/titanium design is lightweight yet rugged, and capable of clear spanning over 22 feet without deflection and all the way to 40 feet by using a screed pipe support. With the Lura Stryker roller screed, circular pours are as easy as 1-2-3 and can be set up in 10 minutes.

A 30 inch long pipe with a 3/4 inch diameter, is pounded into the center of the pour with the top of the pipe at least 3 inches below form height. The coil rod insert is then inserted into the pipe. Use the two coil nuts to adjust to the desired height. Then take the male end of the Lura screed tube and put it through the Center pin pivot, locking it on with the UHMW nut.

It is important to move the screed in a clockwise direction. If it is necessary to move in a counter-clockwise, the set screws need to be locked down.

When finished with the pour, the screed and coil rod pivot are removed. A small amount of concrete will be needed to fill in this area. The pipe will remain in the pour at least 3 inches below the surface.

# How to set up and pour a Circular Pour

We have been told by contractors that technology has walked right past the people that build circular pours. At Lura Enterprises, we listen to our customers and have come up with a time and labor saving attachment! The Lura Stryker has been uniquely designed to be able to customize to just about any circular pour! (Large pours, small pours, conical pours, crowned or cambered pours) Utilizing our tubes that can be ordered from 1' to 26' and our patented coupling system allows the user to extend the tubes to customize to the desired pour.

We also offer 3 powerful motors (2 Honda gas motors 50cc and 100cc and one electric) that can tackle any job you come up against.

The 50cc gas motor is easily our most popular power pack. Unlike some other roller screeds on the market today, our gas motors have no hydraulic hoses or cords running to them. Which means you will need no generator or cumbersome hydraulic power pack to drag along and no hydraulic hoses catching on rebar or busted hoses spraying hydraulic fluid on your concrete.

1- When it comes to setting up the Lura Stryker for a circular pour you should first select the proper tubes. Measuring from the center of the pour and extending about 1' outside your pour.

2- Take the Center Pivot assembly and pound the  $\frac{3}{4}$ " pipe into the ground.

3- Now place the Coil Rod and pivot bearing into the  $\frac{3}{4}$ " pipe

4- Next take the male end of the Roller Screed Tube and place it into the pivot bearing.

Thread on the Nylon nut to hold the roller tube in place.

5- With the other end of the Roller Screed Tube resting on the outside form you can take your laser level and place it on top of the Roller Screed Tube and set your height at that point for the laser.

6- Now go to the center of your pour and place your laser on top of the Roller Screed Tube and adjust the Center Pivot to your desired height tube. Note: Most contractors want the center raised about 1" higher than the outside forms. You can also use a string line pulled tight to set the height of the Center Pivot if you do not have a laser level.

7- We recommend that you travel in a clockwise motion when striking off a circular pour. This will help insure that the tubes stay coupled together during the pour. If you are using two tubes for your pour, you will want to make sure that you have locked down the two set screws where the tubes couple together. This will keep the tubes together when you have to go counter-clockwise if you have concerns of a cold joint.

8- It is important to keep the center pivot solid so we recommend that about 5 gallons of concrete be placed around the  $\frac{3}{4}$ " pipe early, like when you are doing your footings.

9- If you want the Roller Screed to mark your bolt pattern simply measure on top of the tube from the center of the center pivot to the desired bolt location. Make a mark on the tube and you can drill a sheet metal screw in at that location or tie a wire around the tube at that spot.

10- When running on metal forms it is highly recommended to use the standard form runner to protect the tube.

11- When doing a 40' diameter bin, there will be little to no deflection in the tube without support! When doing a 50' diameter bin, there will be about 3/16 of an inch deflection in the tube without support!

Diagram A

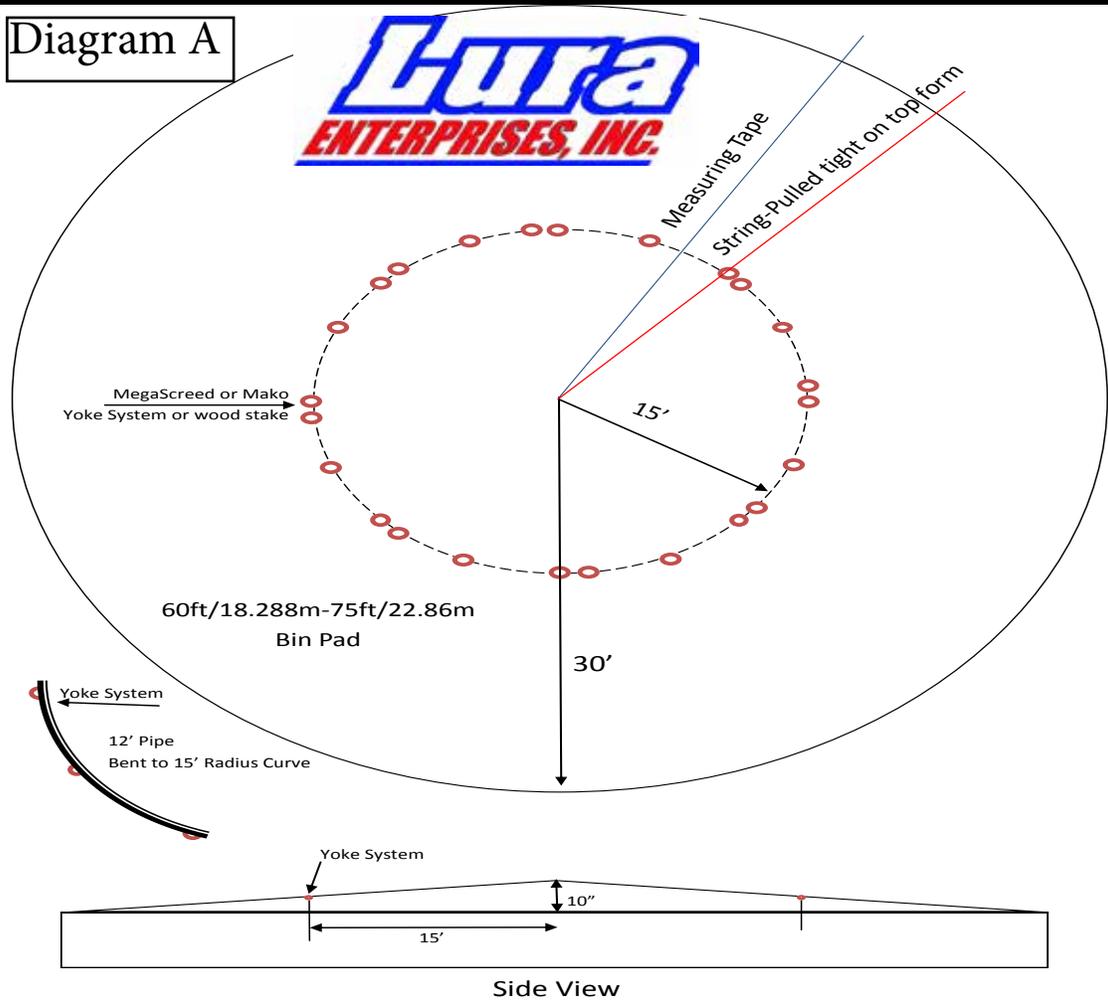
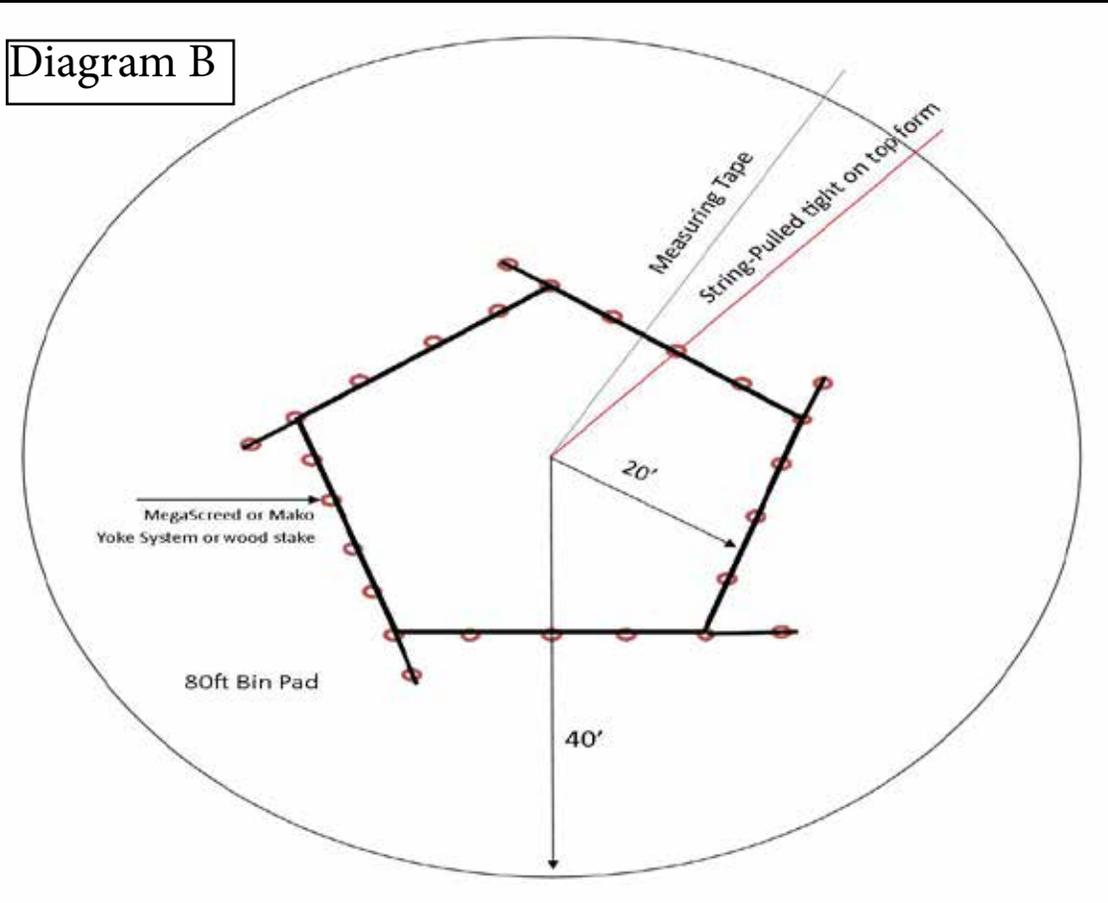


Diagram B



# PACKAGES



## PERVIOUS PACKAGE

- 1-50cc Gas Motor Assembly
- 1-20' Screed Tube
- 1-12' Screed Tube
- 1-6' Screed Tube
- 1-4' Screed Tube
- 1- 6" & 21" Wall Plugs
- 3-Tripod Stands
- 1-Pull Handle
- 1-Motor Side Riser Wheel
- 1-T Handle
- 2-Hex Driver
- 1-Tote with accessories
- 1-Pervious Cross Roller with brush attachment
- 1-Pervious Joint Cutter with brush attachment
- 25-Mako FinCaps and Driver

Pervious concrete is the most environmentally friendly process the concrete industry can produce. Our pervious package was crafted specifically for the contractor who wants to be proficient in pervious placement including all the options to handle any size job, quickly and easily delivering the finest finished product to your customers.



Straight Metal Pull Handle: PART # LEPHMS  
 3 Tripod Stands: PART # LETCS2  
 2 Spanner Wrenches: PART # LESW  
 Lura Screed Standard Honda Power Pack: PART # LE1LS0  
 Accessory Tote: PART # TOTE-GAS  
 2:7 inch Hex Drivers: PART # LEAD7  
 Lura Roller Screed 20 foot Customizable Tube: PART # LE20ST  
 Lura Roller Screed 12 foot Customizable Tube: PART # LE12ST  
 Motor Side Riser Wheel: PART # LE1MSRW  
 Lura Roller Screed 6 foot Customizable Tube: PART # LE6STH  
 Lura Roller Screed 4 foot Customizable Tube: PART # LE4STH  
 Pervious Cross Roller w/ Brush: PART # LEPCRI  
 Pervious Joint Cutter w/ Brush: PART # LEJPCI

### Pervious Package

# PERVIOUS CONCRETE

PERVIOUS JOINT CUTTER



PERVIOUS CROSS ROLLER



Optional Brush attachment (shown), keeps the tools clean and free of debris during use.



Rolls control joints in pervious concrete to prevent cracking in weak areas. Custom cutters are available upon request to suit various thickness requirements.

Offers a means to achieve solid compaction in every pour. To ensure best compaction results, the hollow tube can be filled with water to desired weight, up to 125 pounds.

*The Pervious Joint Cutter and Pervious Cross Roller will adapt to either 1 3/4 inch or 1 3/8 inch bull float handles*

It's beginning to seem, that the entire world is going green. With the Lightning Strike™ and its line of pervious concrete finishing tools, you'll be ready to grow your own green business. Pervious concrete, also known as "No Fines" or "Permeable" concrete, allows water to flow through it, making it ideal for storm water run-off control and can give points toward LEED certification.

## HELPFUL HINTS

Using the optional 2 mil plastic followed by the recommended 6 mil plastic, creates a much higher rate of success with proper curing of pervious concrete.

### Steps to success

- Starting with a good mix design is essential.
- Next, level with a quality screed that does not float on pour but rather cuts the concrete.
- Follow up by working the edges
- Now cover with the 2 mil plastic
- Cross roll
- Chalk a line where control joint is needed
- Cut in joints
- Finally, cover with 6 mil plastic.



# Pervious Concrete Recommendations after you have been certified

1. **The day before the pour, roll out your painter's plastic (very thin Plastic 1 or 2 mill) and 6 mil plastic onto separate round tubes, so they can be unrolled easily on the day of the pour.**
2. Before you start to pour the pervious concrete the rock sub-base should be watered well so there is plenty of moisture available to evaporate during the 7 day cure and to prevent the recharge bed from pulling what little water is in the pervious concrete paste, downward.
3. **If you want to you can fill the Cross Roller with water. It weighs 75 lbs. empty and when filled with water weighs 130 lbs. or about 40 lbs. per foot. Most contractors do not add water with the new mix designs**
4. Also have a chalk line on hand so you can snap a line on the painter's plastic if you intend to roll your joints in.
5. **Most contractors choose to saw cut the joints in two days after the placement.**
6. A crew of 7 will work very well on a 12' to 14' wide pour: (1 man on the chute), (2 men raking, (2) on the Lightning Strike roller screed and (2) working the edges, rolling the plastic, cross rolling and rolling out the 6 mil. This can be done with a crew of 5 once everyone knows what they are doing. If you are using wood forms a hammer tacker would be a good thing to have on hand to staple the plastic to the forms so the wind doesn't take your plastic for a ride. You may want to have a Hudson hand sprayer on hand to mist the top surface with E-Con or Confilm before you roll the painters plastic out. This will help the plastic stick to the cement paste. You may still leave a slight line where the Cross Roller went so one more item to have on hand is a weighted Fresno to go over any potential cross roller lines. This can be used to touch up any line that can be seen through the painters plastic
7. **Build up the edges and compact with your boot next to the form before you strike it off. You want the edge as strong as possible.**
8. The joints can be cut in after the cross rolling is done right through the painters plastic or saw cut a day or two later.
9. **Mark your control joint cuts on your forms the day before if possible if you are going to roll them in.**
10. Weigh the 6 mil down with 2x4's or whatever you have so the wind can't get underneath of it.
11. **Try to pour on a day that isn't too windy and early in the cool of the morning is best.**
12. A front end dump Ready mix truck can easily make a 14' wide pour with a 5 or 6 man job.
13. **A volumetric mixer is a good option (if available) when your pour is a great distance from the plant (40 minutes or more). With the right amount of hydration stabilizer such as Delvo, pervious can be put to sleep for several hours.**
14. A conveyor belt or telabelt is a good option for a 20' wide pour or any pour where you need to get a good production rate. The key on a larger job is to have two trucks dumping into the conveyor at the same time so there is no break in the placement. You CANNOT pump pervious concrete.
15. **Whatever the color of pervious you are pouring you might want to also figure in a matching water based stain and apply it after the 7 day cure for uniform color. When you take the plastic off, everyone will be looking for any imperfection.**
16. Also, new products are being developed every year to help insure a better cure. HydroMax for an internal cure appears to work very well ,Pervious Shield , E-Con or Confilm also help keep the surface hydrated before the plastic placement. One other product that works well with the Cross Roller is the Scofield company product called Bubble Gum Release.
17. **Make sure you are prepared to pour the day before you pour with your tools , forms, plastic rolled up on some PVC pipe and a couple of the crew that been Certified for Pervious placements to insure a successful job.**

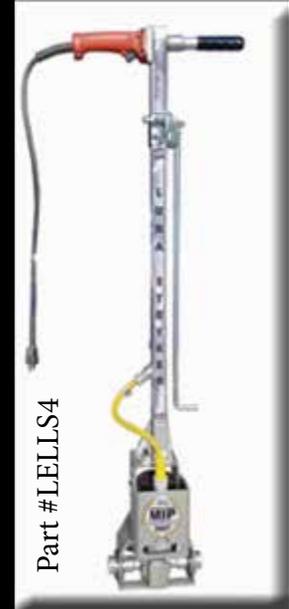


# LURA SCREED MOTORS

50cc Industrial GAS

100cc INDUSTRIAL GAS

ELECTRIC MOTORS  
SINGLE AND DUAL



THE LIGHTWEIGHT, POWERFUL, AND ERGONOMIC DESIGN PROVIDES A UNIQUE ADVANTAGE OVER ALL OTHER SCREEDS.

The Lura Stryker patented pass through drive on the gas motor gearbox, allows for easy connect and disconnect for right or left sided pours. Built with a Honda motor, this concrete leveling machine delivers staggering abilities to power through virtually anything you can throw at it. The gas motors are perfect for essentially any pour in any environment. The electric motor is ideal in hard to reach, elevated situations. Whichever motor you choose, you will be confident while placing pervious or non-pervious concrete in any sized commercial, residential or military project. Unlike our competition we guarantee results!

The Lura Stryker industrial electric motors work well for indoor or enclosed pours as well as traditional outdoor pours. Built with a powerful enclosed electric motor, specially designed for the harsh concrete environment!



# ACCESSORIES

## 24" ADJUSTABLE CURB RUNNER



Enables the system to ride on top of an existing curb, form or sidewalk! Greatly reduces finish time on projects by eliminating the need to set forms and perform time and labor intensive hand screed work.



## WALL PLUGS

### 6" WALL PLUG

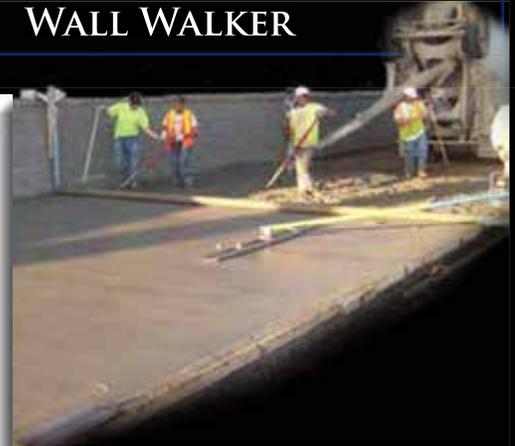


### 21" WALL PLUG



The Wall Plug accessories are specially designed to enable the screed tube to be placed directly next to the wall. This accessory has a built-in riser wheel which helps to protect your investment. Both 6 and 21 inch Wall Plug come standard with contractor package.

## WALL WALKER



This unique accessory allows the screed tube to adjust to a raised wall situation due to its ability for the contractor to adjust to greater lengths with the use of a 2x4. The Wall Walker adjusts in 1/4 inch increments and eliminates the need for a screed pipe.

# ACCESSORIES

## CV JOINT



Eliminates the need for a screed tube when using a truss system

The CV Joint sets the desired pitch. Ideal for applications where a peak is required such as crowns, cambers or if the slab is running to a drain, the CV Joint can be tightened for flatter results or loosened for greater pitch.

## TROLLEY SYSTEM



Constructed of quarter-inch steel, the Trolley System is supported by eight concave rollers each capable of carrying a metric ton of load. It runs on pipes as large as 2.5 inches outside diameter to expand pours to as wide as 38 feet at a fraction of the cost of conventional equipment.

Simply adjust the Trolley System to any height to allow it to clear obstacles, such as rebar or a parapet wall. The Trolley's three adjustment points come at both ends of the pour as well as the CV joint in the center of the trolley frame. If necessary, the trolley can be articulated in other locations, as well. Completing cambered pours and bridge decks with crowns has never been so easy and inexpensive. For the ultimate in customization, the Trolley System can be powder coated to match each company's colors.

## MOTOR SIDE AXLE EXTENSION



Enables screeding on either side of the motor. It is typically best to keep the engine on the right side of the pour, however, the extension provides flexibility when needed, such as situations where there are obstructions on both sides.

## WET SCREED SHOE



Determines proper height and speed on sloped pours. On side-by-side wet pours, the shoe also eliminates extra work by allowing the handle end to float across the top of the previous pour.



# ACCESSORIES

## FORM RUNNER

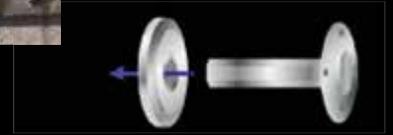


PROTECT  
YOUR  
INVESTMENT



The form runners help significantly reduce the system's wear on metal forms. By adding grease and simply sliding on the tube, the Form Runner can be easily positioned to ride between the screed rotation and the form.

## MOTOR SIDE RISER WHEEL



Elevate the Lightning Strike™ system 1/8 inch above the pour. With the additional height, patching jobs become faster and easier, while excessive stress is taken off the unit to reduce premature wear.

## TRIPOD STANDS



For easy set up and clean up these light weight stands are collapsible and easily transportable. The tripod stands are required for proper threading of the Lightning Strike screed tubes.

## MOTOR CRADLE



The motor cradle mounts to the side rail of your truck or job trailer, keeps motor up right and can be locked for security.

# Instructional Manual

## INTRODUCTION

This operator's manual contains important information for assembling, operation, disassembly and maintenance of the Lura Lightning Strike Screed.

## IMPORTANT

- Read the entire operator's manual before assembling or using the screed. If any information is not understood or if more information is needed, contact your dealer. All persons operating the Lura Lightning Strike Screed must read this manual or be trained by an experienced

operator before starting the screed.

- The Lura Lightning Strike Screed is to be used to screed freshly poured concrete products ONLY. Any other use of the screed could damage the screed, cause premature wear, and will void the warranty.

## SAFETY

- Keep fingers away from all moving parts.
- Do NOT wear loose clothing around moving parts (shoe laces, baggy pants, torn clothing).
- NEVER spray water directly on electrical components.
- NEVER use electrical devices (drills, impact drivers, or the power head) to assemble or disassemble screeding tubes. Always use the spanner wrenches provided to assemble or disassemble the tubes.
- Read and understand ALL safety decals on the machine.
- Learn and practice safe use of the screed in a clear area before operating the machine on a job site.
- Be sure there is clear communication

between the power head operator and the rope pull operator.

- Clear the area around the screed before starting the screed at the job site.

- Be careful of sharp edges on the threaded ends of the screed tubes.
- Keep both hands on the power head tee handle while the motor is running.

## ELECTRICAL POWER HEAD POWER REQUIREMENTS

Extension cords:

- 10 gauge 2 wire with ground (10-2 WG)

Portable generator:

- 4000 watt with 110-120v and 20 amp circuit breaker.

## Power Head Assembly

### STEP 1



Install the cord strap (1) on the motor handle (2) and install the motor handle on the Power Head assembly (3).

### STEP 2



For Electric Motor Power Head  
When not in use, the T-handle hex wrench (1) can be stored in the handle holder (2) as shown. Secure the wrench with the rubber strap (3).



For 50cc Gas Engine Power Head  
When not in use, the T-handle hex wrench (1) can be stored in the handle holder (2) as shown.

## SET UP

8

Tube and Tube Options Assembly  
STEP 1



Select the length of screed tube or combination of lengths to span the area to be leveled.

Place the tripod stands in a straight line and level the tube supports. Place two stands under the longest tube selected.

## STEP 2



Use a third tripod stand to support the next section to be added. Turn the second tube clockwise to start the threads into the first tube.

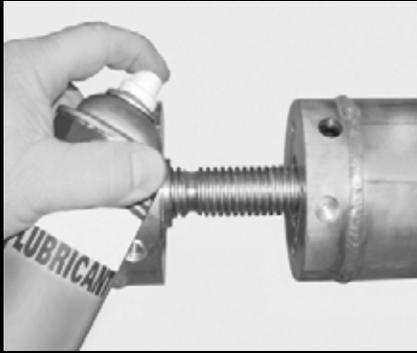
## STEP 3



Adjust the height of the tripod stands to keep each tube level with the next tube during assembly.

Tube and Tube Options Assembly  
(Cont'd)

STEP 4



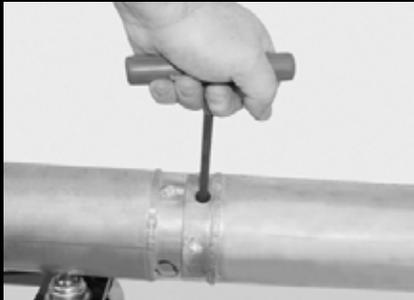
Spray the exposed threads and the flat ends of both tubes with Six Way Lubricant (or equivalent lubricant). **IMPORTANT:** Contact MRO Solutions for technical and safety information on Six Way Lubricant at [www.mrosolutions.com](http://www.mrosolutions.com) or 1-847-588-2480. For emergencies call 1-800-424-9300.

STEP 5



Turn the second tube clockwise until the two tube ends make contact. Use the two spanner wrenches provided to tighten the two tubes 3/4 inch rotation past tube contact. **DO NOT** use extensions on the spanner wrenches when tightening the tubes.

STEP 6



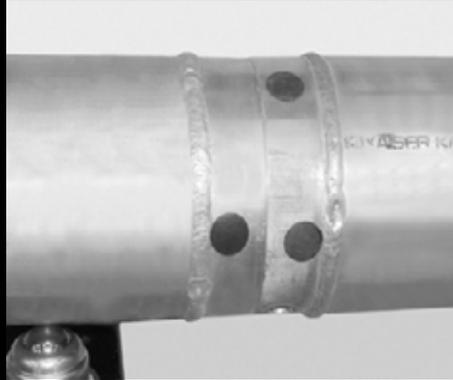
Use the tee handle wrench provided to tighten the set screws.

SET UP

10

Tube and Tube Options Assembly (Cont'd)

STEP 7

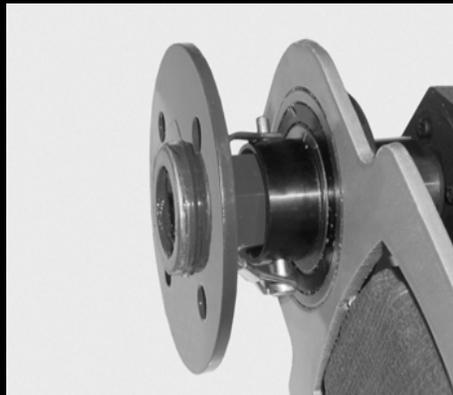


Install the plastic plugs in the spanner wrench and set screw holes.

STEP 8

Repeat Steps 2 through 7 for each additional section added.

STEP 9



When the tube or tubes are assembled and if the driver plate is stored on the power head, remove the lock pin from the power head and tube drive plate. Remove the drive plate from the power head output shaft.

**NOTE:** The drive plate is normally stored in the tool box.

STEP 10



For Electric Motor Power Head

Use the four 3/8 x 3/4 inch bolts and 3/8 lock washers to install the tube drive plate on the female tube end. Tighten the bolts until the drive plate contacts the tube end. **DO NOT** tighten the bolts more than 20 Ft.-lb.

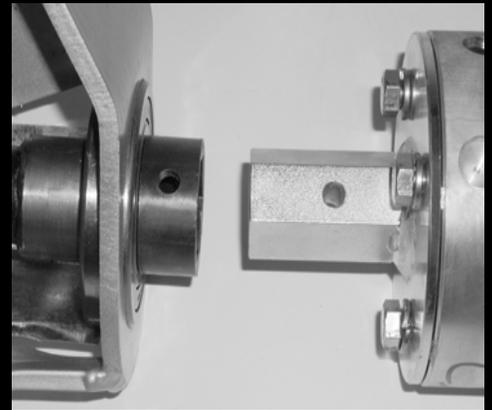
Tube and Tube Options Assembly (Cont'd)



For 50cc Gas Engine Power Head

Use the four 3/8 x 3/4 inch bolts and 3/8 lock washers to install the tube drive plate on the female tube end. Tighten the bolts until the drive plate contacts the tube end. **DO NOT** tighten the bolts more than 20 Ft.-lb.

STEP 11



For Electric Motor Power Head

Align the holes on the hex socket to the holes on the drive plate. Install the power head on the tube assembly.



For 50cc Gas Engine Power Head

Align the holes on the hex socket to the holes on the drive plate. Install the power head on the tube assembly.



## SET UP

Tube and Tube Options Assembly  
(Cont'd)

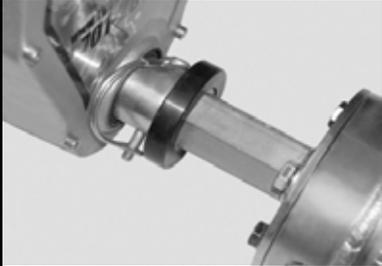
### STEP 12



For Electric Motor Power Head  
Install the D-clip.



For 50cc Gas Engine Power Head  
Select off-set distance from tubes and  
install D-clip lock pin.



## Tube End Options

There are seven tube end options for  
different applications.



1. Metal Handle Pull - For open  
straight pours with screed  
supports.

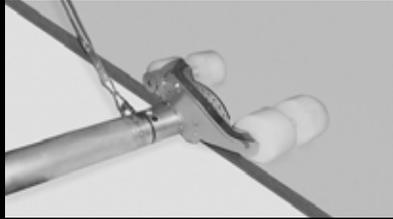


2. Wall Plug - For pours against an  
existing wall or obstruction.

## TUBE END OPTIONS



3. Pivot - For any circular type pour.



4. Adjustable Curb Roller - For  
pouring a drop apron against a  
garage slab, curb or wall requiring  
a drop to the next added pour.  
Optional roller extensions available for  
drops up to 54  
inches (136 cm). Custom  
extensions available upon request.



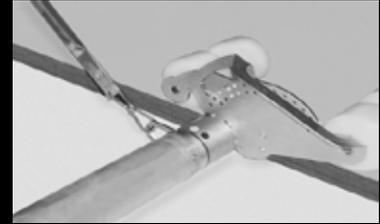
5. Motor Side Riser Wheel - For  
pours next to an existing slab.



6. Wet Screed Shoe- For pours next  
to a fresh pour.

## TUBE END OPTIONS

Metal Handle Pull



Clip metal handle to tube end  
option.

Wall Plug  
STEP 1



Install pulling eye bearing on wall plug.

STEP 2



Install and hand tighten the wall plug  
assembly on the tube assembly as  
shown.

Install the two white plastic plugs.

STEP 3



Use the tee handle tool provided to  
tighten the set screw.



## TUBE END OPTIONS

### Pivot - Grain Bin Bearing

#### STEP 1



Drive centering tube into the centerpoint of the pour up to the stop flange.

#### STEP 2



Insert pivot bearing in the tube. Use the two nuts to adjust the height for the center of the pour. The top of the pour is 3/8 inch up from the bottom edge of the pivot bearing nut. Tighten the two nuts against each other at the correct height.

#### STEP 3



Install the UHMW bushing on the male end of the tube end.

#### STEP 4



Remove pivot bearing from the centering tube and install on the UHMW bushing.

#### STEP 5

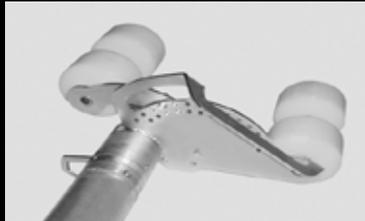


Install and hand tighten the 3-1/2 inch nylon nut .

## TUBE END OPTIONS

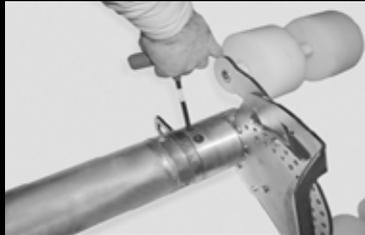
### Adjustable Curb Roller

#### STEP 1



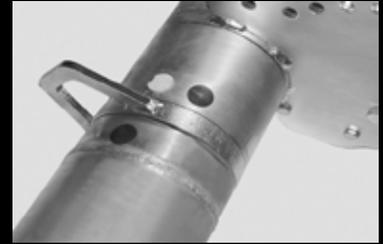
Install the curb roller assembly on the tube assembly as shown and hand tighten.

#### STEP 2



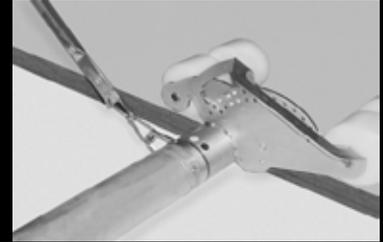
Use the tee handle tool to tighten the set screws.

#### STEP 3



Install the nylon plugs in the spanner wrench and set screw holes.

#### STEP 4



Move the tube assembly to the pour. Install the metal handle to the pull bearing loop.

#### STEP 5



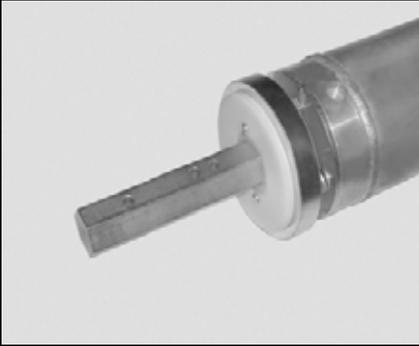
Curb Roller shown with optional roller extensions. Standard extensions are adjustable to 54 inches (137 cm). Custom extensions available upon request.



## TUBE END OPTIONS

### Motor Side Riser Wheel

#### STEP 1



Install the riser on the drive shaft.

#### STEP 2



Install the drive shaft into the power head gear box. Install the D-clips.

### Wet Screed Shoe

#### STEP 1



Install the UHMW bushing on the male end of the tube end.

### Wet Screed Shoe

#### STEP 2



Install the shoe on the tube.

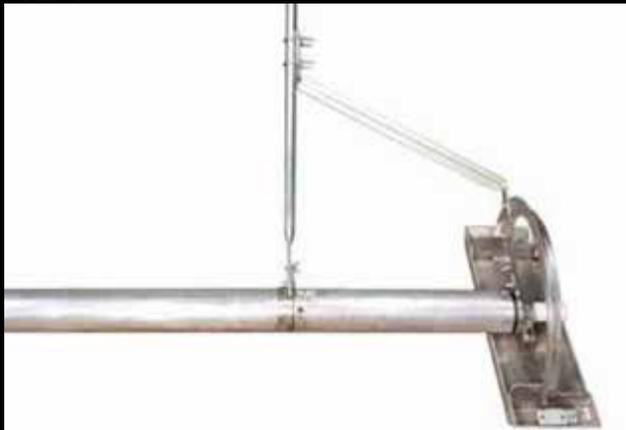
#### STEP 3



Install the UHMW nut.



#### STEP 4

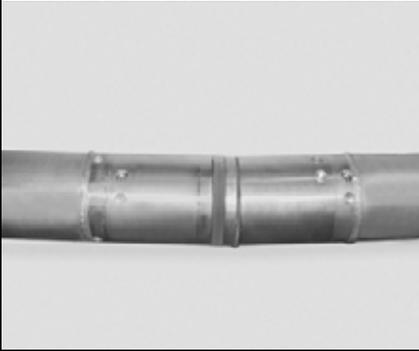


Install the handle, clamp bolt and eye bolt as shown.

## TUBE END OPTIONS

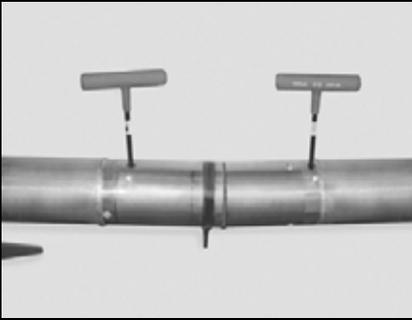
### CV Joint

#### STEP 1



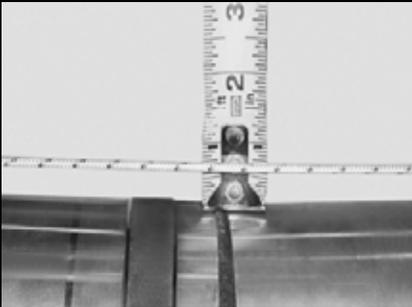
Install the CV joint between the tubes to be used.

#### STEP 2



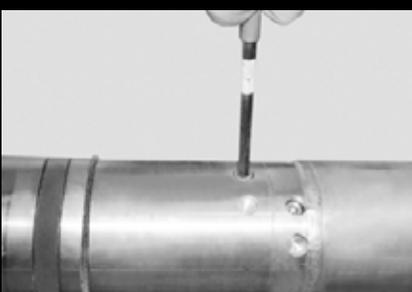
Use the spanner wrenches to tighten the CV joint on the tubes. Tighten the two set screws.

#### STEP 3



Use the spanner wrenches to turn the CV joint and tube assembly to adjust the amount of slump or crown on the screed.

#### STEP 4

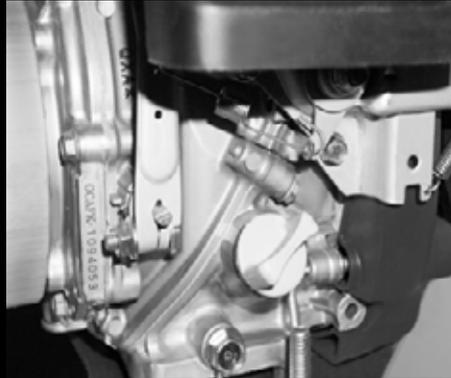


Tighten the CV joint set screw.

## OPERATION

### 50cc Gasoline Engine Operating Instructions

#### STEP 1



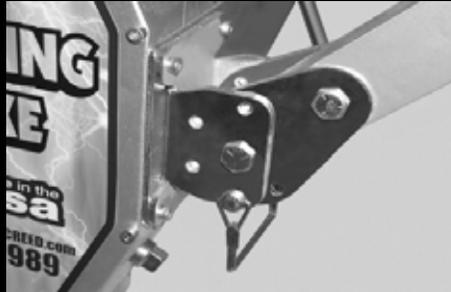
The engine must be level. Remove the plug. The oil level must be to the bottom of the fill hole.

#### STEP 2

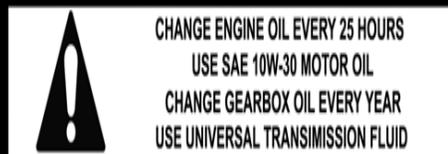


Check the oil level in the gearbox. Remove the plug. The oil level must be to the bottom of the fill hole.

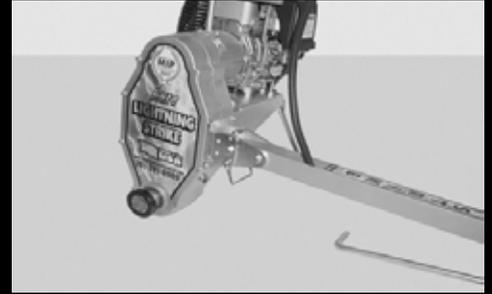
#### STEP 3



Remove the D-clip pin to adjust the handle to keep the engine level during operation. The engine must be kept level or it will affect the engine low oil shut-off.



#### STEP 4



Install the D-clip pin to lock the handle in the position selected.

#### STEP 5



Fill the tank with the recommended fuel.

#### STEP 6



Turn the switch to the ON position.



50cc Gasoline Engine Operating Instructions (Cont'd)

STEP 7



Set the choke lever to full choke.

STEP 8



Pull the rope to start the engine. When the engine starts, move the choke from full choke to half choke until the engine can run with the choke off. NOTE: If engine starts to run rough, add Sea Foam® Motor Treatment to the fuel.

STEP 9

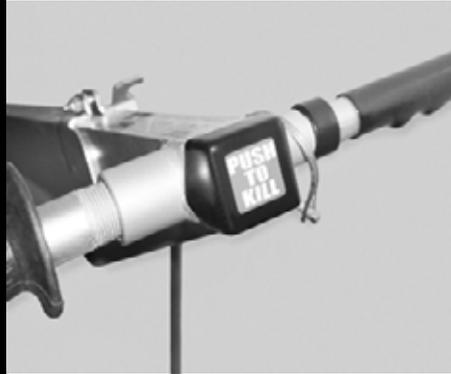


Use the throttle to adjust the speed of the motor and screed. To put the kick stand into the operating position, disengage the spring by pushing the button (end of shaft) on the left side and lift the kick stand.

OPERATION

50cc Gasoline Engine Operating Instructions

STEP 10



Push the kill switch button to stop the engine or turn the switch from STEP 6 to OFF.

Electric Motor Operating Instructions STEP 1



Be sure the switch is in the FORWARD POSITION.

STEP 2



Connect the motor and handle assembly to an extension cord. Install the extension cord in the the cord strap clip.

STEP 3



Engage the switch to test for correct tube rotation. When standing on the right hand side of the pour, the tube rotation must pull away from the power head operator.

IMPORTANT: For extension cord distances of 0-100 feet a 12 gauge 2 wire with ground (12-2 W/G) cord must be used. For distances over 100 feet a 10 gauge 2 wire with ground (10-2 W/G) cord must be used. Failure to meet these cord requirements will cause the circuit breaker to trip off.



**OPERATION**  
General Operating Instructions

**STEP 1**



The Power Head operator must be on the right hand side of the pour as shown and ready for the movement of the screed.

**STEP 2**



With the concrete ready, engage the switch or throttle lever and pull the screed in the direction to be leveled. Do not force the screed through the concrete, the rotary action of the Lura Lightning Strike Screed will move the concrete.

NOTE: Attendants will have to pull excess concrete or fill holes from in front of the screed.

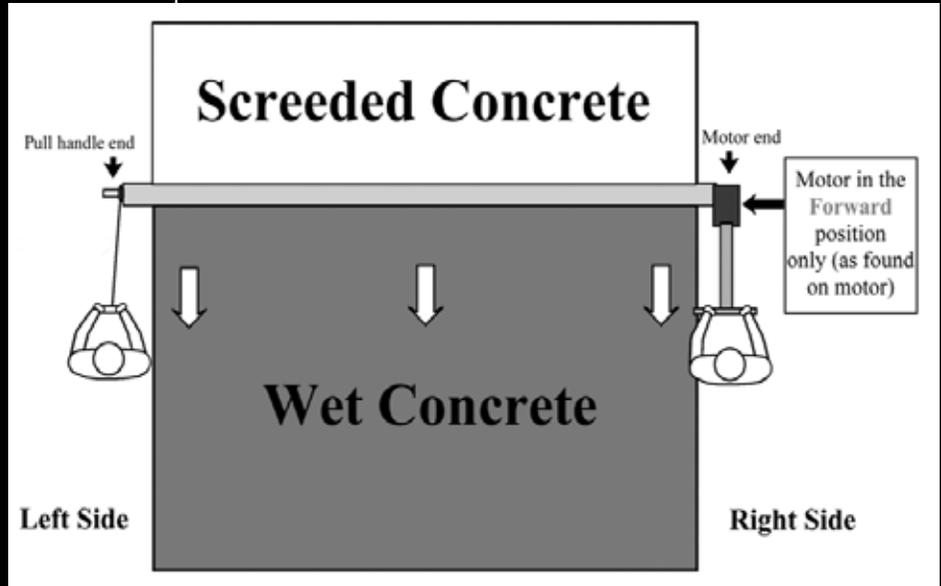
IMPORTANT: Turn the motor OFF or release the throttle lever when waiting for concrete to be poured or raked. Letting the motor and screed tubes spin freely while waiting can cause excess wear on the tubes and heat build up in the motor.

50cc Gasoline Engine Operating Instructions (Cont'd)

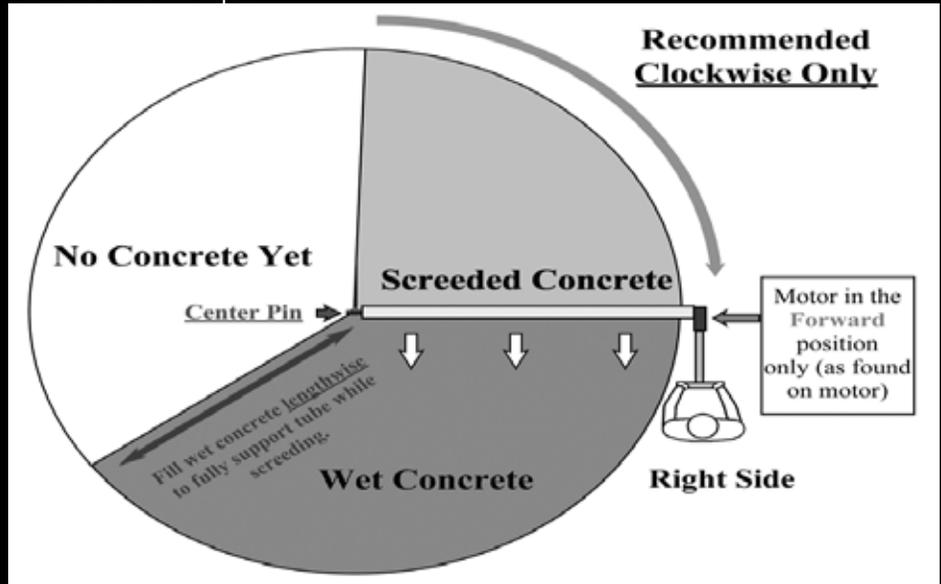


**OPERATION**

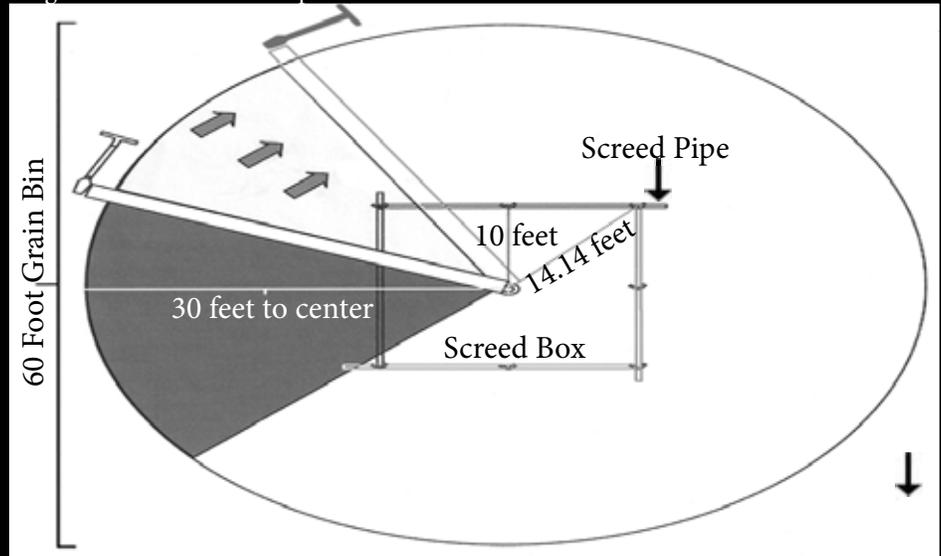
Flat Pour Example



Circular Pour Example



Large Diameter Pour Example

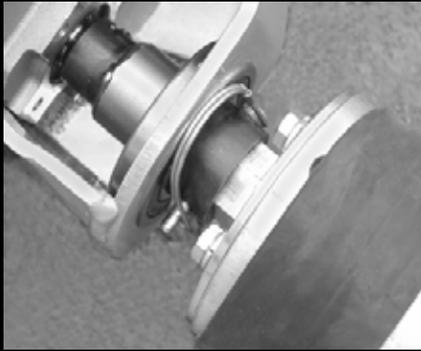


To control any deflection on large circular pours, you may need to add a screed box.

DISASSEMBLY

Clean Up

STEP 1



Remove the extension cord from the power head (electric motor only). Remove the D-clip from the driver plate. Remove the screed tube from the power head.

STEP 2



Remove the pull clip and handle, if used.

STEP 3



Remove the tube assembly from the pour and place on assembly stands. If the pivot option was used, remove the pivot tube from the pour.

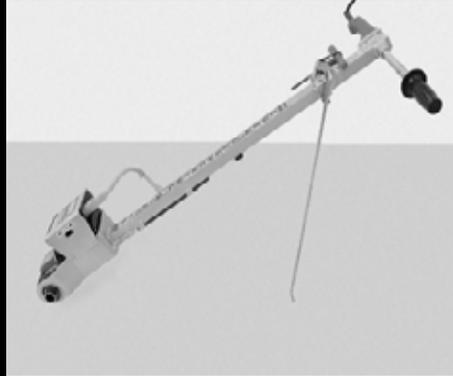
Clean Up (Cont'd)

STEP 4



Using clean water, wash off all concrete from the tube assembly, including the option assembly on the rope pull or pivot end. If the pivot option was used, wash off the pivot tube.

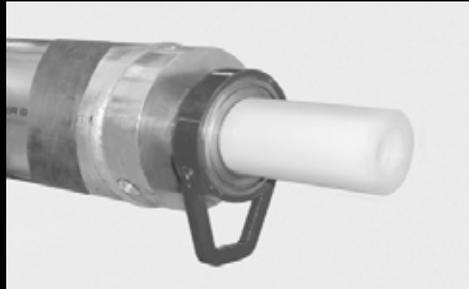
STEP 5



Wipe down the power head with a wet cloth.

Tube, Tube Options and Power Head Disassembly

STEP 1



Remove the pulling eye (1) or tube end option used from the tube.

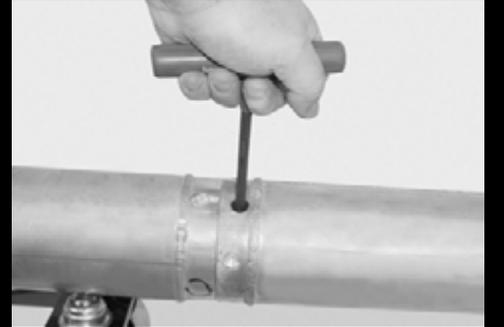


STEP 2



Loosen the 9/16 inch bolts to remove the hex driver.

STEP 3



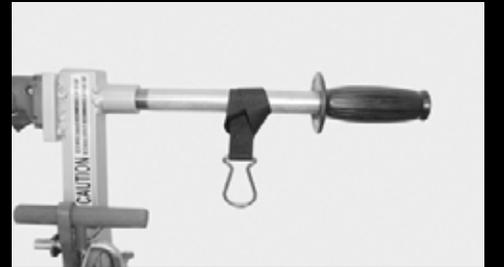
Loosen the set screws.

STEP 4



Use the two spanner wrenches to loosen and disassemble the tube sections. If resistance is felt after loosening the tubes, the set screw may need to be loosened more.

STEP 5



For Electrical Motor Only  
If necessary for transporting or storage, remove the handle and cord strap from the power head.

LIMITED WARRANTY

The Lura Lightning Strike Screed has a 1 year parts and labor limited warranty on the motor assembly. See your dealer for additional warranty information.

LURA ENTERPRISES, INC.  
1016 5th Avenue NE Unit 1  
West Fargo, ND 58078  
www.lurascreed.com

# TROUBLESHOOTING

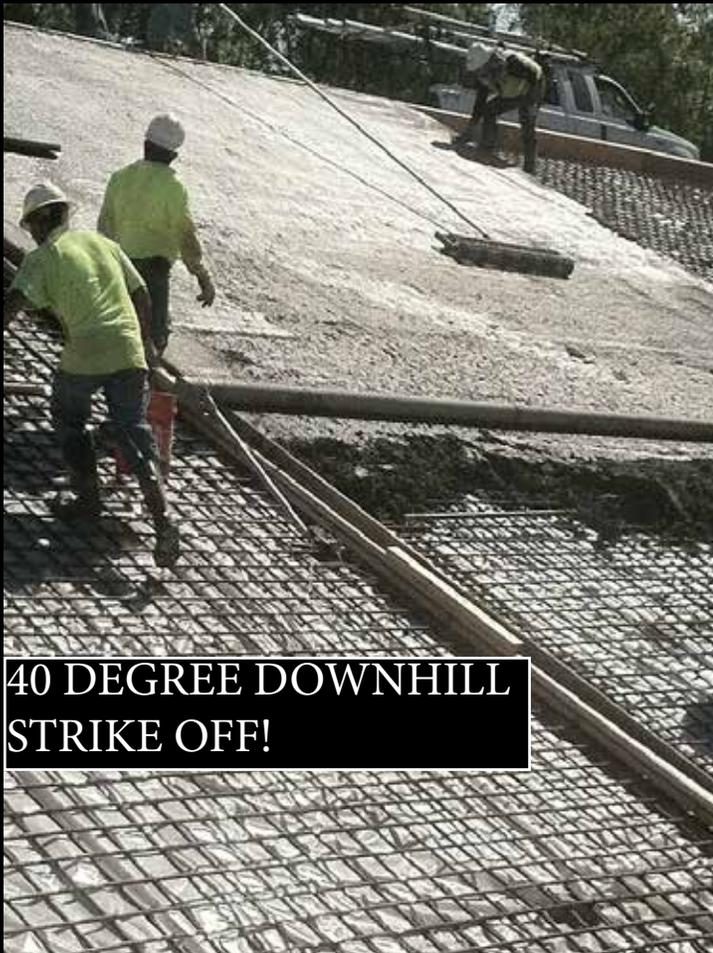
- 1) This motor is equipped with an automatic low oil shut off device. Sometimes when the unit is shipped a little oil may seep out causing the motor oil to be low. When you receive it, if it does not start or it dies quickly after starting, you may need to add ½ to 1 oz of 10- 30 motor oil.
  - The use of high octane gasoline (95-111 octane) is recommended if you want or require more power. Using high octane gasoline will not void the warranty. This type of gasoline also has a longer shelf life than regular gasoline
  - It is recommended to run Sea Foam or StaBil (gas additive) through the gas tank on a regular basis. Sea Foam will keep the varnish from forming as the shelf life of gasoline is very short. It is available at most automotive stores or Wal-Mart carries it as well.
- 2) If the motor is tilted more than 20 degrees forward or backward when you are screeding concrete, the oil sensor may shut the motor down. You can control this by adjusting the pivot. The pivot is located where the operating handle and gearbox meet. First, pull the pin out of the clevis. Next, adjust the handle to a point where the motor is in an upright position. Finally, slide the pin into the proper hole to keep it in position.
- 3) When you are putting two (2) tubes together, you must make certain the ends are very clean. You can quickly and easily clean them with steel wool or emery cloth. Keeping the ends clean will help prevent any wobble during the pour.
- 4) When you have the motor on the RIGHT side of the pour and you have 2 tubes screwed together, the machine will be tightening the threads. When you have the motor on the LEFT side of the pour, the machine will be trying to loosen the threads.

In this case it is important to set the set screws. The set screws are located under the white plastic caps on the tubes. 95% of the time you can keep the motor on the RIGHT side of the pour. WHEN YOU HAVE SET THE SET SCREW, MAKE SURE YOU LOOSEN IT WHEN YOU TAKE THE TUBES APART.
- 5) The kill switch is located under the black plastic cover on the top of the handle.
- 6) There are 2 kickstands.
  - The large kickstand located at the top of the handle is spring loaded. The large kickstand is not disengaged by pulling it from the right side of the handle. Simply push the ½ inch round rod that is sticking out of the left side of the kickstand. This will release the pressure that the spring is holding the kickstand in.
  - The small kickstand is located under the motor. This gives the motor a 3 point stance when you are not using the motor (before and after the pour). Keeping the motor in an upright position at all times, will help ensure no oil or gas will leak out.
- 7) It is a good idea to run some Sea Foam or StaBil through the gas tank on a regular basis. The gas we get these days does not have a very long shelf life and Sea Foam will keep the varnish from forming. You can get it at any automotive store or Wall Mart super store also carries it.
- 8) If you must adjust the idle, there is a black screw located under the gas tank, turn it CLOCKWISE to turn the idle up and COUNTERCLOCK wise to turn the idle down.
- 9) Sometimes because of vibration and use, the set screw on the throttle cable may slip. This will cause a reduction in the high RPM you want. Simply loosen the set screw where the throttle cable is attached to the throttle lever on the motor and adjust the cable so the motor is just starting to engage the Centrifugal Clutch which in turn will start the tube spinning. This adjustment can only be done when the motor is running.
- 10) It is a good idea to keep the motor on the right side of the pour. 95% of the time this is the side to be on because you are always tightening the threads if you have 2 tubes together. (we call this the forward position). If you need to have the motor on the Left side make sure to tighten the set screws located under the white plastic caps on the tubes. When you have completed the pour and it is time to take the tubes apart, make sure to loosen the set screws first before unthreading the tubes
- 11) When we ship outside of the US borders, we are required to PURGE the motor and gearbox of gas and oil. We use the same motor oil in the Honda Motor and gearbox (SAE 10-30). The motor will require about 8oz. Fill the gearbox with the same SAE 10-30 oil up to the lower oil plug. It will require about 16oz.

## ONE FINAL NOTE

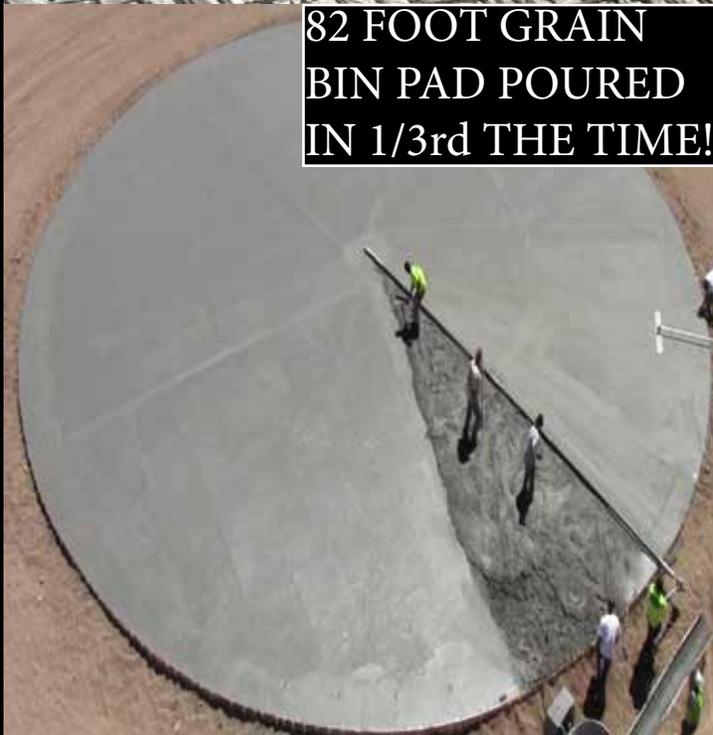
Lura Enterprises takes our responsibility for quality control very seriously. Our commitment does not end after the sale. For this reason, it is important to us that you contact Lura Enterprises with any questions, concerns, issues or suggestions you may have about the screeding system. It is our mission to provide the highest level of service to you. With your input, we hope to shine a light on any issues that will help us improve the product and advance the system for not only you but future screed users.

The goal here at Lura Enterprises is to make the work place safer, reduce short and long term injuries, all while saving time and increasing profits for everyone. A "Safer" work place and more "Profitable" work place usually opposes one another. We have married the two for a perfect blend where both labor and management win.



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Dennis Lura-President