

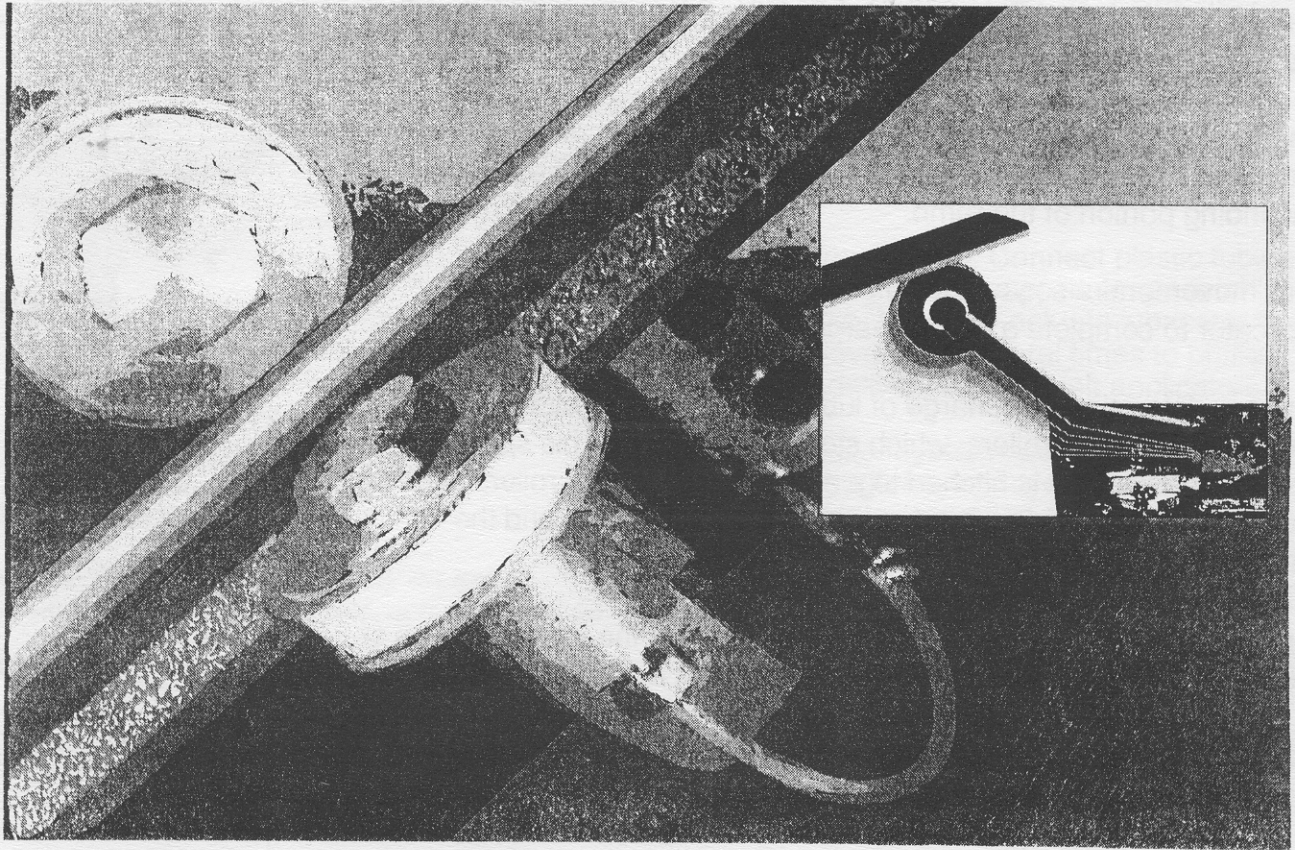
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# LUBRI-TRAK

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## Lubricating System for Horizontal Carousels Operations Manual

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The Lubri-Trak System deposits a thin film of lubricant on the wear surface of top drive horizontal carousel tracks.

The automatic lubricating system reduces track wear and noise levels, since lubricant is delivered right at the critical friction points – downtime is reduced, along with repairs and servicing expenses.

This booklet describes the operating principle, major components and installation. The system is supplied in a convenient kit for fast easy ordering and set up.

The system is designed for use on small to large carousels. The amount of lubricant deposited on the track is directly related to the activity rate of the carousel.



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# Lubri-Trak System Operation

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The lever actuated lubricator is mounted at the top of a carousel bin and travels with the machine while it is in motion.

At two locations (normally spaced about 180° apart), stationary ramp assemblies are mounted to the top frame of the carousel to actuate the lubricator.

Ramp assemblies are fully adjustable for alignment to properly actuate the Lubri-Trak pump.

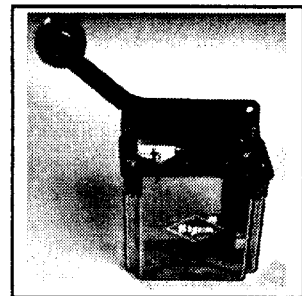
As the lubricator lever encounters the wedge-shaped ramp, the arm moves downward and returns to its original position as it exits the ascending portion of the ramp.

This movement raises and lowers the pump piston, causing the lubricator to complete a full discharge stroke.

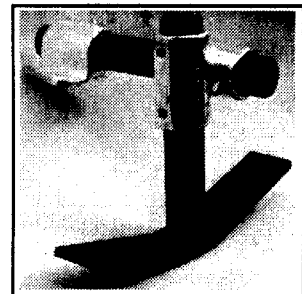
The pre-determined discharge of lubricant is equally divided to two specialty applicator rollers, which store the lubricant. This special applicator assembly is hitched to a set of the carousel's rollers in close proximity to the lubricator and moves with the lubricator and the carousel.

The applicator rollers are in constant contact with the wear surfaces of the track and apply a controlled film of lubricant along its entire length.

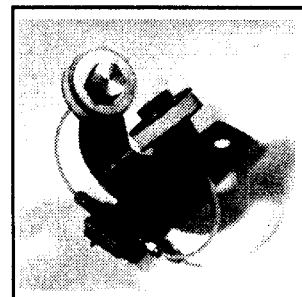
Note: Various styles of yoke wheel applicator assemblies are available for all major carousel manufacturers.



**Lubricator –  
travels with bin**

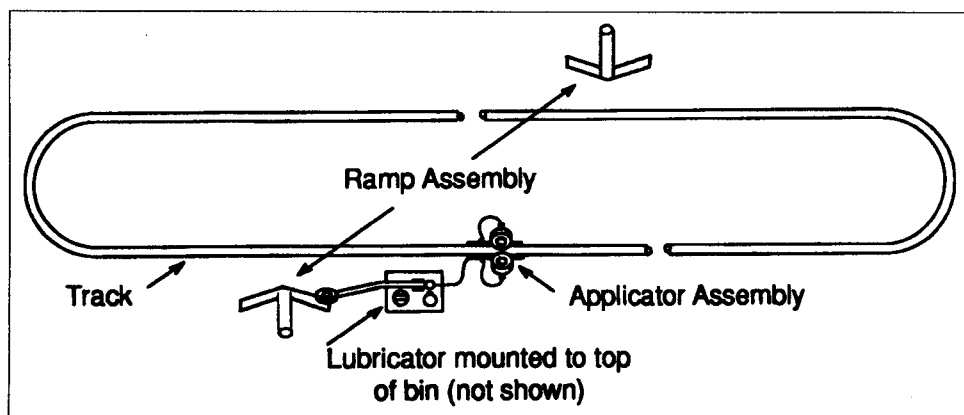


**Ramp Assemblies –  
actuates lubricator  
(2 per kit)**



**Applicator Assembly –  
hitches to  
existing trolley**

**Simplified Arrangement  
of Components  
(top view)**



# Lubri-Trak Mounting, Adjustment and Start-Up

## Mounting

### **Step 1:** *Locate the lever actuated lubricator.*

Mount the lubricator to the top left side of the bin, utilizing the special mounting bracket supplied with the Lubri-Trak kit.

**Step 2:** *Hitch the applicator assembly to the carousel.* This is accomplished by removing the yoke pin from the yoke closest, and to the right, of the lubricator for easier tube connections.

Slip the mounting plate between the load bar and the existing yoke. Note: one of the felt roller groups must be removed from the applicator assembly to accomplish this.

**Step 3:** *Locate and mount ramp assemblies to top of carousel frame.* Ramps must be mounted on straight sections of the frame. For most applications, the ramp assemblies are located approximately 180° apart.

## Adjustment

**Step 1:** *Adjust ramp assembly on top of carousel to actuate lubricator.* Jog carousel so the roller on pump lever arm is directly under the lowest point of the guide ramp.

Adjust ramp assembly to provide a minimum of 1/8" of remaining piston travel to prevent the pump piston from "topping out" and possible internal damage.

Check alignment of lever and ramp, complete adjustments, if required.

Following adjustments, make sure ramp assemblies are tightened securely to prevent movement and possible pump damage.

**CAUTION: DO NOT PLACE PRODUCT ON TOP BIN SECTIONS THAT INTERFERES WITH RAMP ASSEMBLIES.**

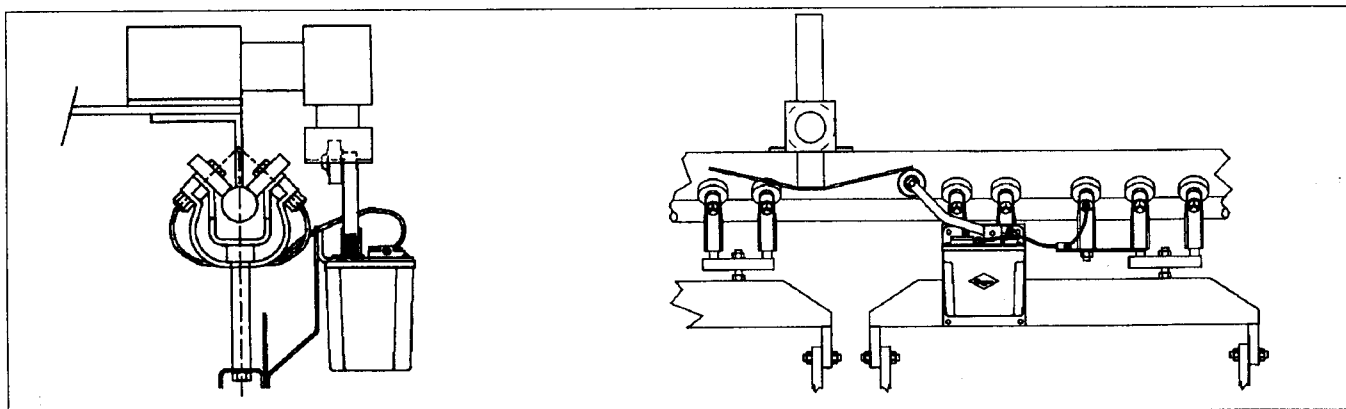
## Start-Up

**Step 1:** *Fill lubricator with recommended lubricant.*

**Step 2:** *Prime system.* Connect plastic tubing from barb fitting on yoke applicator assembly to outlet of pump. Manually actuate lubricator by depressing lever arm several times to prime plastic tube delivery line and felt applicators.

**Step 3:** *Monitor system operation.* Run the carousel through several cycles and check smooth lubricator actuation occurs – complete final adjustments, if necessary.

**Step 4:** *Check for proper lubricant discharge.* Observe carousel rail to ensure proper amounts of lubricant are deposited – **ONLY A THIN FILM IS REQUIRED** – To reduce lubricant discharge, refer to Technical Data Sheet, Form No. 21525.



Assembly of Lubri-Trak to Carousel

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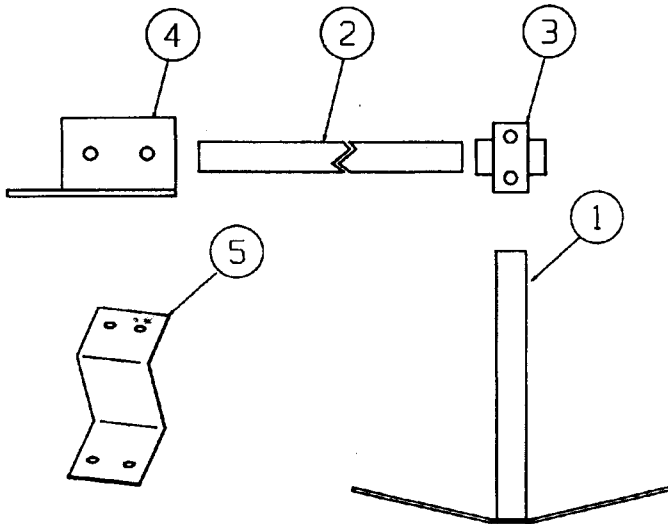
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# Lubri-Trak Ramp Assembly

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## Breakdown of Ramp Assembly and Bracket Kit (Part No. 20993) (included in Lubri-Trak Kits)



<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	2	20989-1	Guide Ramp
2	2	20990-1	Pipe Extension
3	2	20992	Cross Fitting
4	2	20991	Ramp Mount Fitting
5	1	20988-1	Lubricator Mtg. Bracket

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## Lubri-Trak Kits for Horizontal Carousels

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### Kit No. 21011 Buschman Retro-Fit

<u>Part No.</u>	<u>Description</u>
20655C	Track Lubricator
D4060	Yoke Applicator Assembly
20993	Ramp Assembly & Bracket Kit

### Kit No. 21341 White Retro-Fit

<u>Part No.</u>	<u>Description</u>
20655C	Track Lubricator
21507	Yoke Applicator Assembly
20993	Ramp Assembly & Bracket Kit

### Kit No. 21027 Richards-Wilcox Retro-Fit

<u>Part No.</u>	<u>Description</u>
20655C	Track Lubricator
21522	Yoke Applicator Assembly
20993	Ramp Assembly & Bracket Kit

### Kit No. 21340 Raymond Retro-Fit

<u>Part No.</u>	<u>Description</u>
20655C	Track Lubricator
C3562	Yoke Applicator Assembly
20993	Ramp Assembly & Bracket Kit

Illustrations and specifications are not binding in detail. Designs are subject to modification and improvement without notice.



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