



INSTRUCTION MANUAL FOR MODEL

GRAVITY ROLLER CONVEYOR



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INSTRUCTION MANUAL FOR MODEL GRC **GRAVITY ROLLER CONVEYOR SYSTEM**

1. OPERATION

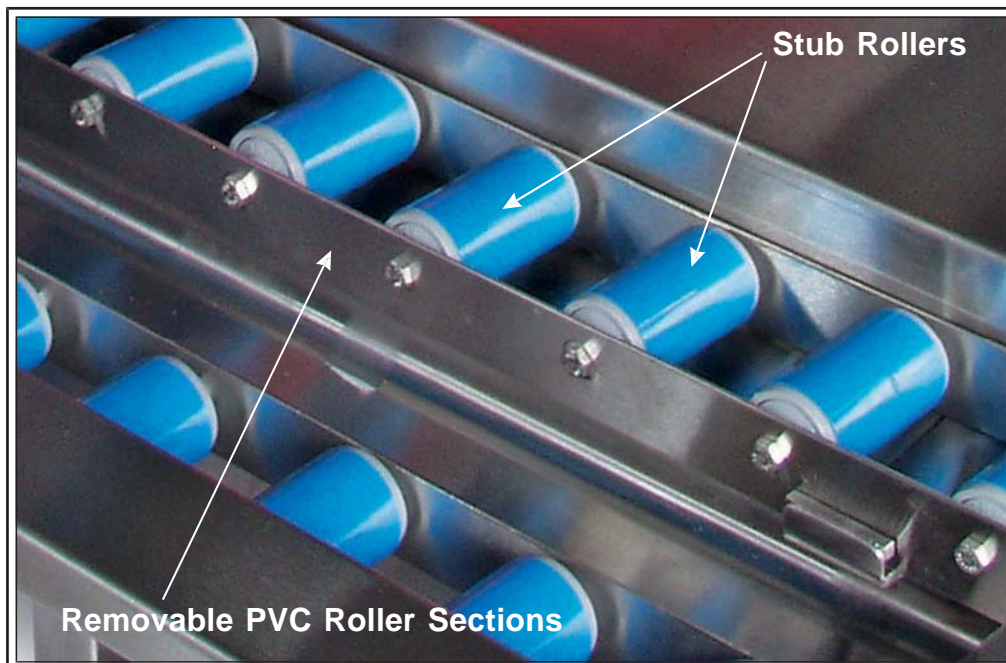
1.1. GRAVITY ROLLER, STUB ROLLER AND CLEAN DISH TABLE

Both the Gravity and Stub Roller Conveyor are non-motorized conveyors. The Gravity Roller Conveyor is designed to pass dish racks from the Power Roller Conveyor on the soiled dish table to a dishwasher or serve as a clean dish table to receive clean dish racks exiting the dish machine. The Stub Roller Conveyor is located at the soiled dish table to convey soiled trays as they travel across the dish table over a waste trough.

The stub rollers are shorter than the gravity rollers and form two lines of rollers on either side of trough. The construction features of both of these rollers are similar.

1.1.1. GENERAL INSTRUCTIONS

1. The Gravity Roller Conveyor or Stub Roller has no electrical components.



PROPER ORIENTATION OF PVC ROLLER SECTIONS

2. Rollers bearings are plastic and have a labyrinth seal. The ball bearings inside are stainless steel. The rollers must be hosed down frequently to ensure each roller turns freely.
3. The Gravity Rollers and Stub Rollers are mounted in easily removable frames to facilitate cleaning.
4. Ensure that the stub roller conveyor sections are mounted correctly on the mounting brackets provided on the soiled dish table. Since the soiled tray rides upon the stub roller sections, it is necessary to have them correctly aligned. Gravity rollers are constructed either with PVC or stainless steel. B-133 bearings are used for PVC rollers and B-131 bearings are used for stainless steel rollers. Both of these bearings are maintenance free. However worn or damaged rollers must be replaced.

Note: After cleaning the removed PVC roller section, it should be replaced in position with the correct orientation. (The stub roller surface should project above the frame of the PVC roller section)

1.1.2. GENERAL INSTRUCTION - CLEAN DISH TABLE

1. Hose down the system on a daily basis.
2. The clean Dish Table having Gravity Roller is equipped with a mechanical limit switch. The dish machine will shut down when the switch is actuated.
3. No daily service is required except to ensure that the rollers are clean and run freely to smoothly convey dish racks exiting the dish machine.
4. After cleaning the removable roller sections make sure that they are replaced in their correct position. Incorrect fitting will impede the movement of dish racks..
5. The Clean Dish Table is equipped with either stainless steel or PVC rollers. Stainless steel rollers use B-31 bearings where as PVC rollers use B-133 bearings. Both these bearings are maintenance free. However they may require replacement in when worn or damaged.

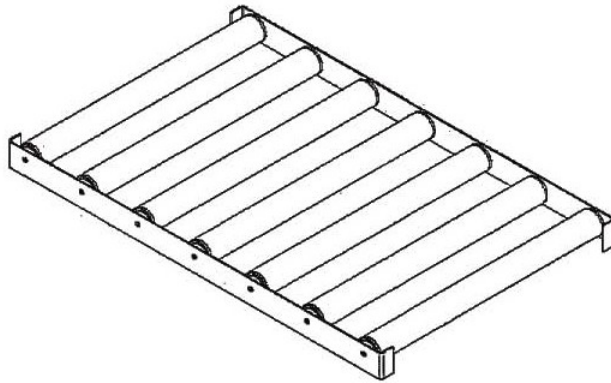
2. TROUBLEHOOTING

PROBLEM MECHANICAL	PROBLEM CAUSE	SOLUTION
Rollers do not turn freely.	The bearings of shaft may be damaged.	Replaced damaged component.
	The roller tube itself may be warped.	Replaced the roller tube.

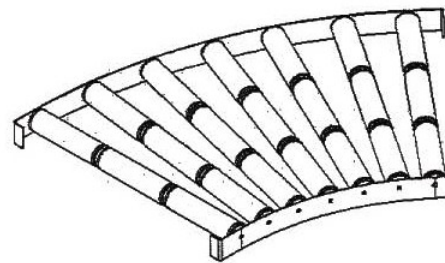
Note: Do not attempt to replace an old roller with a new bearing/shaft or vice versa. The bearings are press fitted into the tubes at Aerowerks, using an appropriate assembly tool. It is very difficult to achieve the desired fit by manual assembly.

PROBLEM MECHANICAL	PROBLEM CAUSE	SOLUTION
Dish machine does not stop when dish racks reach the end conveyer.	Accumulation flap is not making contact with accumulation switch.	Manually check to make sure that the accumulation flap is making contact with the accumulation switch.
	Faulty accumulation switch.	Check the connection of accumulation switch pf the dish machine

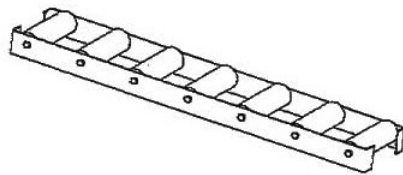
3. MODEL GRC - GRAVITY ROLLER CONVERYOR PARTS



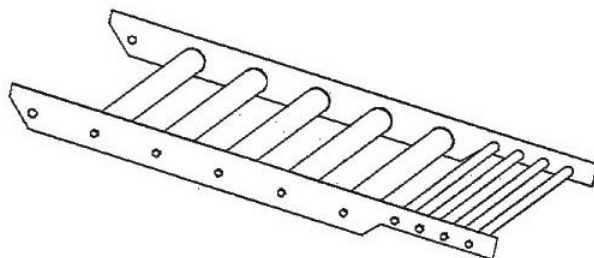
Gravity Rollers at Straight Section



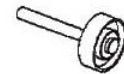
Gravity Rollers at Curved Sect



Stub Rollers Section



Gravity Rollers at Lift Gate



Side Mounted Roller

GRC GRAVITY ROLLER CONVEYOR PARTS LIST

Item #	Parts #	Description	Unit
GRC 1	8102059	Bearings B-2. 193 white skate wheel assembly	
GRC 1A	8102060	Bearings B-2. 193 gray skate wheel assembly	
GRC 2B	8102056	Bearings B-101 (used on ¾" dia. s/s rollers	
GRC 3	8102057	Bearings B-107 (for 1-1/8" dia. Aluminum & / or grey PVC tubing)	
GRC 4	8102058	Bearings B-109 (used on 1-1/4" dia. PVC rollers)	
GRC 5	8102054	Bearings B-131 (used on 1.9" S/S tubing)	
GRC 6	8102055	Bearings B-133 (used on 1.9" Blue PVC tubing)	
GRC 7		Bearings ¾" Stainless Steel tubing (minimum order of 5 feet)*	
GRC 8	8401890	1-1/8" Aluminum tubing (minimum order of 5 feet)*	
GRC 9	8401881	1-1/8" Grey PVC tubing (minimum order of 5 feet)*	
GRC 10		1.9" Stainless Steel tubing (minimum order of 5 feet)*	
GRC 11		1.9" Blue PVC tubing (minimum order of 5 feet)*	
GRC 12		12 skate wheel shaft	
GRC 13	0095411	¼" Round stainless steel shaft (used with GRC 16)	
GRC 14	009515	7/16" Hex aluminum shaft (for stub roller section)*	
GRC 14A		7/16" Hex aluminum Shaft (for gravity roller section)*	
GRC 15		7/16" Hex stainless steel shaft	
GRC 16	0131302	¾" Stainless Steel roller w/bearing B-101	
GRC 17	8102057	1-1/8" Aluminum Roller w/bearings B-107	
GRC 18	8102062	1-1/8" Grey PVC roller w/bearings B-107 1" -14" length	
GRC 19		1.9" Blue PVC Roller w/bearing B-133 for gravity roller section	
GRC 20		1.9" Blue PVC Roller w/bearing B-133 (for curved section)	
GRC 21	0095150	1.9" Blue PVC stub roller section (for stub roller section)	
GRC 21A	0095152	1.9" Stainless Steel stub roller w/bearing B-131 (for stub roller section)*	
GRC 22		1.9" Blue PVC roller w/ bearing B-133 (for lift gate)	
GRC 23	8300222	Hex bolt s/s 5/16" 18 x ¾"	

***Note:** All roller and shafts are cut to order. Please verify the length ordering.

4. WARRANTY SERVICE & PARTS POLICY FOR MODEL GRC GRAVITY ROLLER

4.1. WARRANTY PERIOD

Aerowerks warrants its products to the original purchaser against any defects in material and workmanship, under normal use and service for a period of one year after the date of installation by Aerowerks personnel or an Aerowerks authorized agent.

4.2. GENERAL

Aerowerks is not liable for any damage due to faulty installation or unauthorized alteration, misuse or abuse of the equipment. Liability or obligation in connection with the products of Aerowerks other than those covered by this warranty is not authorized by Aerowerks. This warranty is limited to the United States and Canada.

HOW TO HANDLE A WARRANTY CALL

Please contact Aerowerks Customer Support Staff at **1-888-774-1616 ext. 0** for all concerns regarding Aerowerks equipment. Hours of operation are 8:00 am to 4:30 pm EST.

Do not contact Hobart Service: While Hobart Service is our authorized service agent, it will only perform warranty service with a valid purchase order and authorization from Aerowerks. Contacting us directly will speed up the process of your warranty concern to minimize your downtime. If you require after hours emergency service please call Hobart Service. In the event Hobart Service has scheduled a service call without prior notification to Aerowerks they must notify Aerowerks and request a valid purchase order from Aerowerks during our normal business hours before invoicing Aerowerks.

Please Note: Aerowerks will cover the cost of the service call only; overtime charges will be the customer's responsibility. The claim must be submitted to Aerowerks immediately for validation.

4.3. WARRANTY COVERAGE

It is important to follow the proper operation and maintenance procedures outlined in this service manual, so that your new Aerowerks System will provide years of trouble-free operation. Failure to follow proper operating and maintenance procedures will void the warranty of your equipment.

Please review this complete manual for operation, clean-up and maintenance procedures.

The obligation of Aerowerks under this warranty is to repair or replace any defects in the equipment. All the services covered under the warranty will be provided by Aerowerks during regular working hours. All claims against this warranty must be made in writing to Aerowerks. Equipment must be serviced either by Aerowerks technicians or agents authorized by Aerowerks. All warranty parts will be shipped to the client via regular ground transportation.

The following are not covered under this warranty:

Normal wear on parts including rollers, shafts, bushings/bearings are not covered under warranty. Aerowerks is not liable for any damage caused by faulty installation or mechanical failure caused by unauthorized alteration, misuse or abuse of the equipment.

