



## *HEAVY DUTY CONVEYOR*

### **BILL OF MATERIALS AND BELT REPLACEMENT INSTRUCTIONS**

*The Experts IN "Parts Management Systems"*

**MOLDING AUTOMATION CONCEPTS, INC.**

1760 KILKENNY COURT • WOODSTOCK, IL 60098 • WITHIN IL-815/337-3000 • OUTSIDE IL-800/435-6979

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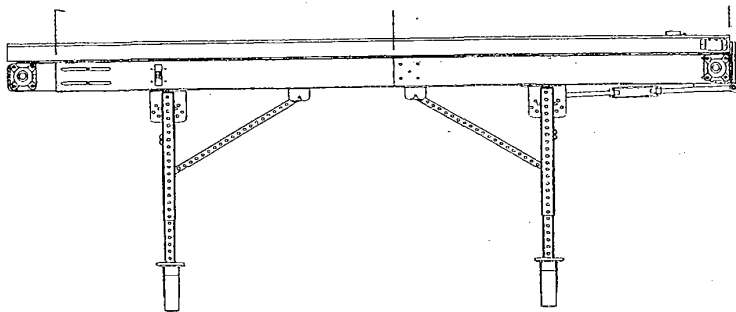
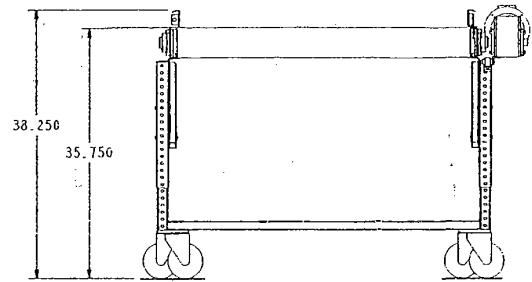
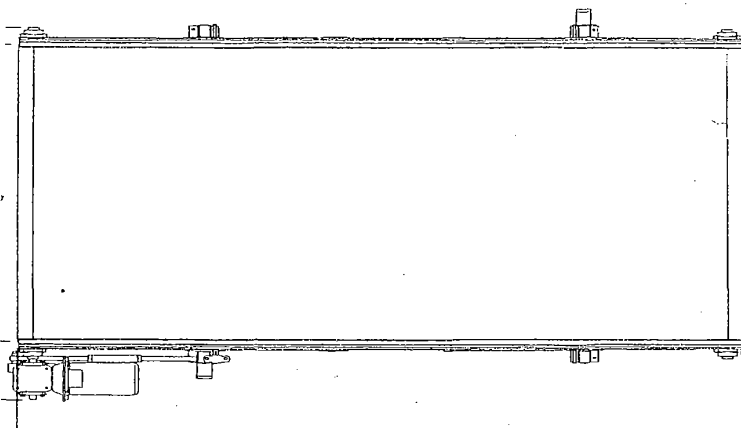


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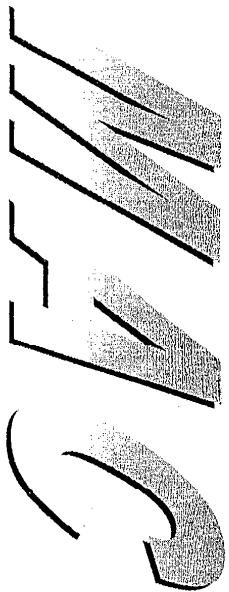
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## HEAVY DUTY CONVEYOR BILL OF MATERIAL

REF# & PART#	DESCRIPTION	QTY
1. OPTIONAL	SIDE RAIL'S	2
2. OPTIONAL	PULLEY,HD DRIVE .	1
3. OPTIONAL	PULLEY,HD IDLE SECTION.	1
4. 0110	MCG BEARING KFC4-45 X 1"	4
5. 1389	DRV END BEARING MNT, HD	2
6. 1388	TAKEUP UNIT,HD COV,FINISHED	2
7. 9948	ROD,1/2-13UNC X 9.0" LONG	2
8. OPTIONAL	ASSY,CUSTOM HD DRIVE	1
9. OPTIONAL	BOSTON GER REDUCER	1
10. OPTIONAL	BOSTON MOTOR VL	1
11.0128	PAY CASTER 200-5UT-SK /SWIVEL	4
12.7716B	HD BOLT-ON LEG BRKT	4
13.7588A	LEG SUPPORT PLATED	4
14.7747B	LEG SUPPORT TUBE 23" PLATED	4
15. OPTIONAL	ENDLESS BELT	1
16.00015318	BOS REACTION ROD KIT X718-76K	1
17. OPTIONAL	ASSY,LEG SET ___W"X___H"	2
18. OPTIONAL	FIXED SPEED OR VARIABLE SPEED	1

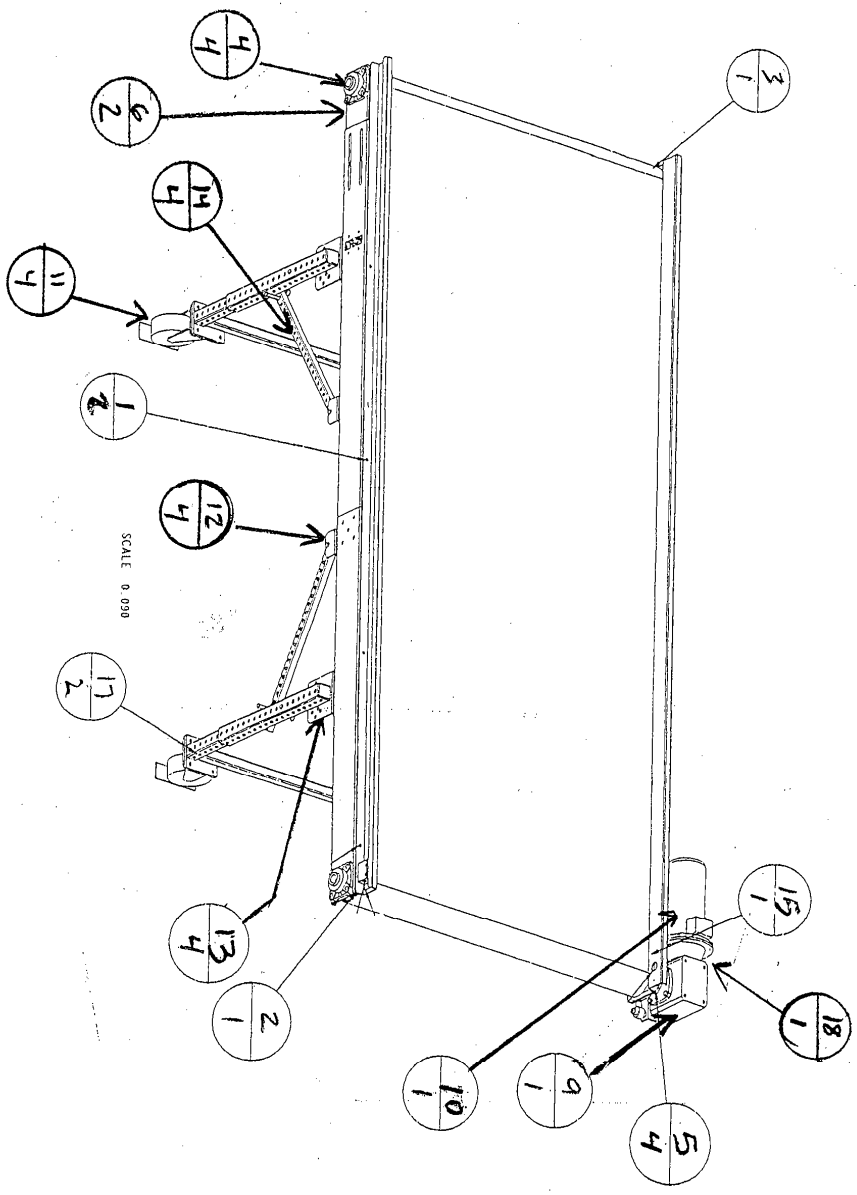
PLEASE WHEN ORDERING SPECIFY PART#, DISCRIPTION AND SERIAL NUMBER ON SYSTEM.

NOTE: PLEASE CONSULT FACTORY FOR PRICING AND OPTIONAL ITEMS.



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SCALE 0.090



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## MAINTENANCE

### • **Maintenance Safety Precautions**

A) *Maintenance, such as lubrication and adjustment, shall be performed only by Qualified and trained personnel.*

B) *It is Important that a maintenance program be established to insure that all Conveyor components are maintained in a condition, which does not constitute A hazard to personnel.*

C) *When a conveyor is stopped for maintenance purposes, starting devices or powered Accessories shall be locked or tagged out in accordance with a formalized procedure Designed to protect all person or groups involved with the conveyor against an Unexpected starts.*

D) *Replace all safety devices and guards before starting equipment for normal Operation.*

E) *Whenever practical, DO NOT lubricate conveyors while they Are in motion. Only trained personnel who are aware of the Hazard of the conveyor in motion shall be allowed to lubricate.*

#### **SAFETY GUARDS**

*Maintain all guards and safety devices IN POSITION and IN SAFE REPAIR.*

#### **WARNING SIGNS**

*Maintain all warning signs in a legible condition an obey all Warnings.*

### • **Lubrication**

#### **BEARINGS**

*STANDARD: Supplied sealed and pre-lubricated. No lubrication required.*

#### **REDUCERS**

*MANUFACTURES BY BOSTON: see separated Manual in Packing Envelope that contains rubrication and maintenance instr, for Boston Gear.*



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## ***BELT INSTALLATION***

### ***INSTALLING THE BELT***

The Conveyor drive belt has been pre-cut to the proper length and lacing installed at the factory. To install follow these steps:

1. Thread belt through conveyor.
2. Pull ends together and insert lacing pin. (Fig 8b). if belt ends cannot be pulled together by hand, loosen take-ups(At the idle end) .
3. Adjust belt tension with take-up pulley, Keep pulley square by moving both Take-up bolts an equal amount. Maintain enough tension so drive pulley will not slip when carrying the rated load.
4. Track belt per instruction on Belt tracking page.

### ***BELT TRACKING***

Belt is tracked by idle pulleys

### ***PRE-TRACKING INSPECTION***

Before attempting to physically track belt:

1. Make sure conveyor is level across the with and length of unit.
2. Make sure that the idle pulley are square with conveyor bed.
3. Make sure that the belt lacing has been installed correctly and is square with the belt.

Give the belt adequate time to react to the adjustments. It may take several complete revolutions around the conveyor for the belt to begin tracking properly on long, slow conveyor lines.

- A.)Stand at the tail pulley looking toward drive and note what direction belt is traveling.
- b.)Having observed belt and determined tracking problem, follow procedures in “ How to steer The belt”



## • **Trouble Shooting**

The following charts list possible problems that may occur in operation of a powered conveyor.

<b>TROUBLE WITH DRIVES</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Conveyor will not start or motor Quits frequently.	1) Motor is overloaded or drawing too much current.	1) Check for overload of conveyor.
Loud popping or grinding noise	1) Defective bearing 2) Loose set screws. 3) Loose drive chain.	1) Replace bearing. 2) Tighten setscrew. 3) Tighten chain.
Motor or Reducer overheating.	1) Conveyor is overloaded. 2) Low Voltage to Motor. 3) Low lubricant in Reducer.	1) Check capacity of conveyor and reduce to recommended level. 2) Have electrician check and correct a necessary. 3) Relubricate per Manufacture's recommendations. For BOSTON reducer.
Belt doesn't move, but drive runs.	1) Conveyor is overloaded. 2) Belt it too loose. 3) Lagging on drive pulley is worn.	1) Reducer load. 2) Use belt take-up to tighten belt. 3) Replace drive pulley and tighten belt.
<b>Trouble with belt Tracking</b>	<b>Cause</b>	<b>Solution</b>
Entire length of belt creeps off at one spot only.	1) One or more pulleys are out of line 2) Material build-up on pulleys or idlers.	1) Adjust idlers as necessary. See tracking belt Instructions. 2) Remove residue from pulleys or idlers. Install belt, cleaners, or scrapers of possible.
Belt creeps to one side of idle section.	1) Tail pulley, return idle, or snub idle near tail pulley not properly aligned or square with bed.	1) Adjust as necessary .See Belt Pre-Tracking Inspection Sheet.
Entire belt creeps to one side.	1) Conveyor not straight. 2) Conveyor not level. 3) Material build-up on rollers, pulleys, or idlers.	1) Re-align bed sections as necessary. 2) Correct as necessary. 3) Remove residue and install belt cleaners or scrapers if possible.



### Two Year Limited Warranty

Molding Automation Concepts, Inc. warrants all products manufactured by it to be free of defects in workmanship and materials when used under normal operating conditions. Use or service with abrasive or corrosive chemicals or materials or in a corrosive or abrasive atmosphere shall not be deemed normal. This warranty shall be in effect for a period of twenty-four months from date of purchase. Molding Automation Concepts' obligation under this warranty is limited to repairing at Molding Automation Concepts factory or furnishing a replacement for any part, or correcting any workmanship, which shall be demonstrated to Molding Automation Concepts satisfaction to have been defective at the time of delivery and with respect to which a written claim specifying the particular defect or defects shall have been delivered to Molding Automation Concepts within two (2) years from the date of delivery to the original purchaser.

No other warranty whether express or implied (including any warranty of merchantability or fitness) shall exist in connection with the sale or use of any Molding Automation Concepts product.

Molding Automation Concepts liability under this warranty shall be solely limited to repair or replacement of Molding Automation Concept's product within the warranty period and Molding Automation Concepts shall not be liable, under any circumstances for any consequential, incidental, direct, special, indirect damages or expenses associated with warranted products including, without limiting the generality of the foregoing, liability for loss of production, or any damages to person or property.

Molding Automation Concepts, Inc. does not warrant equipment manufactured by others, but will submit the manufacturer's warranty to purchase upon request.

Molding Automation Concepts will make no allowances for repairs, alterations or other work done unless specifically agreed to in writing. Purchaser agrees that purchaser's sole remedy for liability of any kind, including negligence with respect to the equipment and services furnished by Molding Automation Concepts shall be limited to the remedies provided herein.