



AUTOMATION CONCEPTS, INC.
The Parts Handling Experts

**BILL OF MATERIALS
AND
BELT REPLACEMENT INSTRUCTIONS**

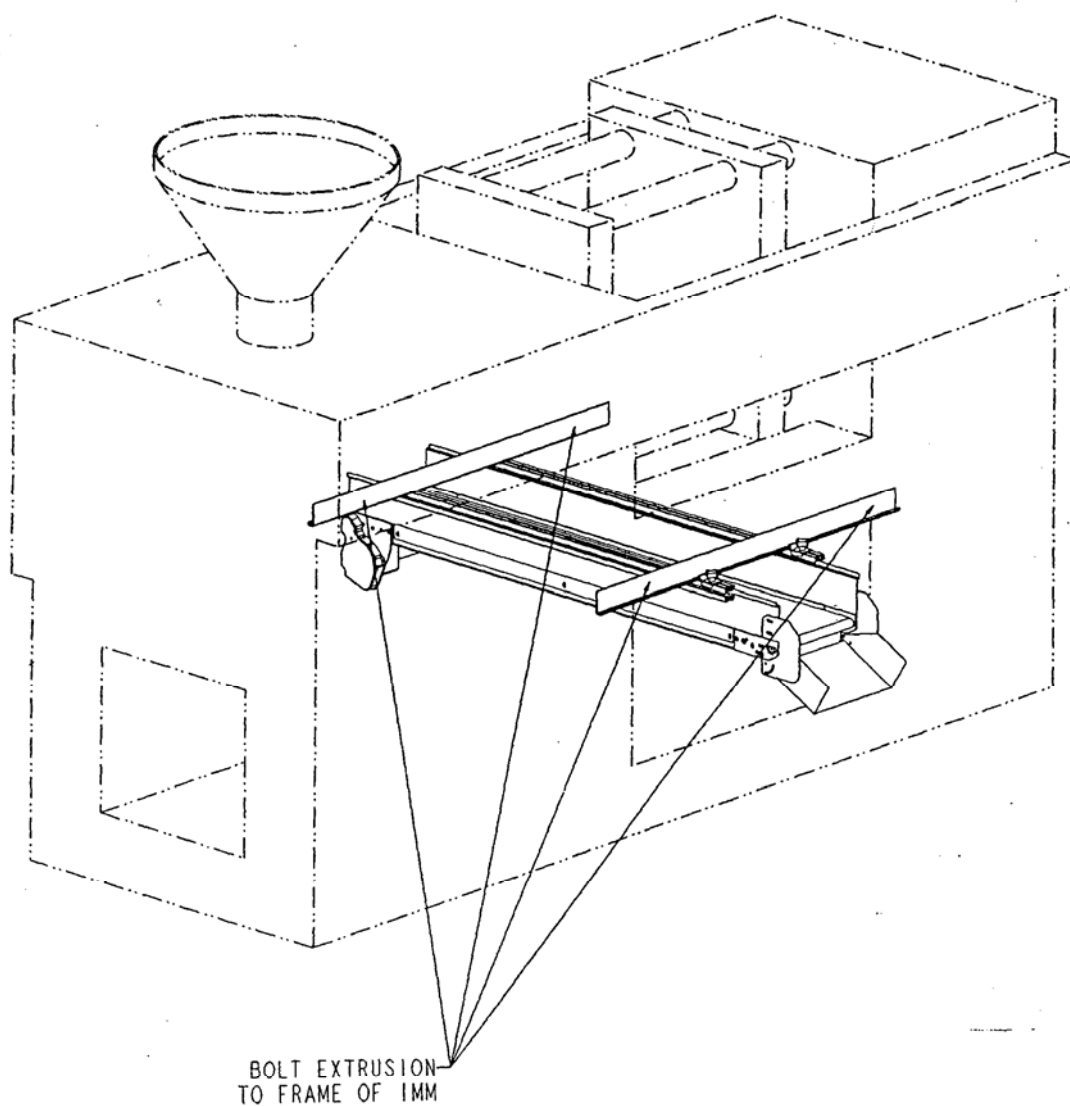
**MAC TRAK 100
LOW PROFILE CONVEYORS.**

MOLDING AUTOMATION CONCEPTS, INC.

1760 KILKENNY COURT, WOODSTOCK, IL 60098-7437 1-800-435-6979 OR 1-815-337-3000



AUTOMATION CONCEPTS, INC



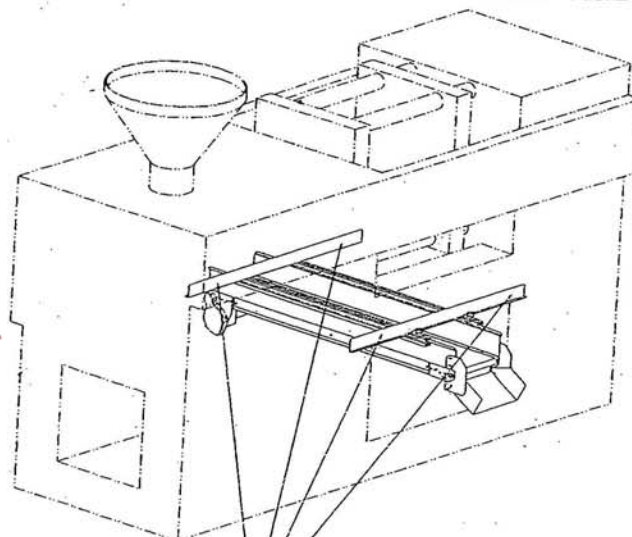
BOLT EXTRUSION
TO FRAME OF IMM

1760 Kilkenny Ct. Woodstock, Illinois 60098 • 815/337-3000 • FAX 815/337-3020 • 800/435-6979
(OUTSIDE ILLINOIS)

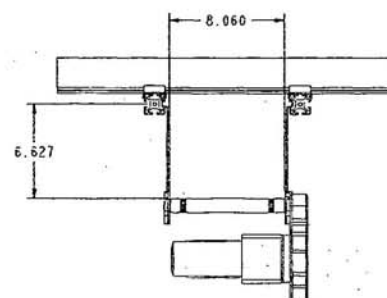
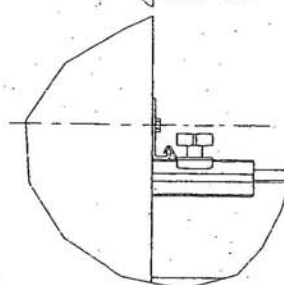
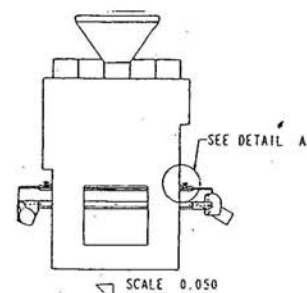
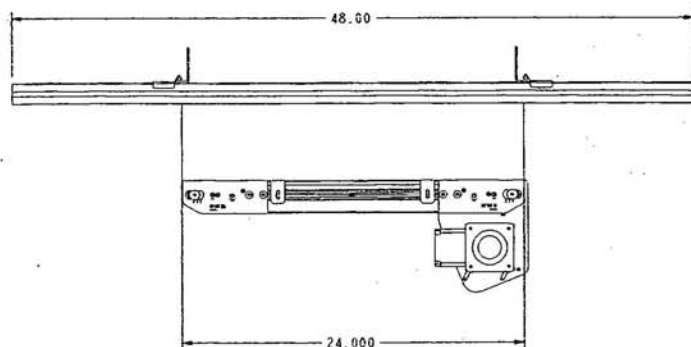
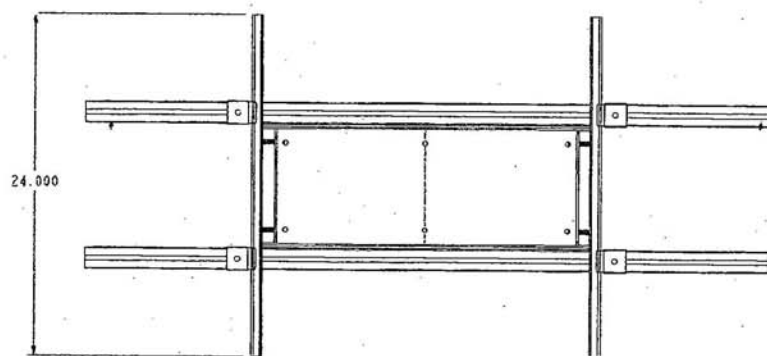


MAC

AUTOMATION CONCEPTS



BOLT EXTRUSION
TO FRAME OF INH

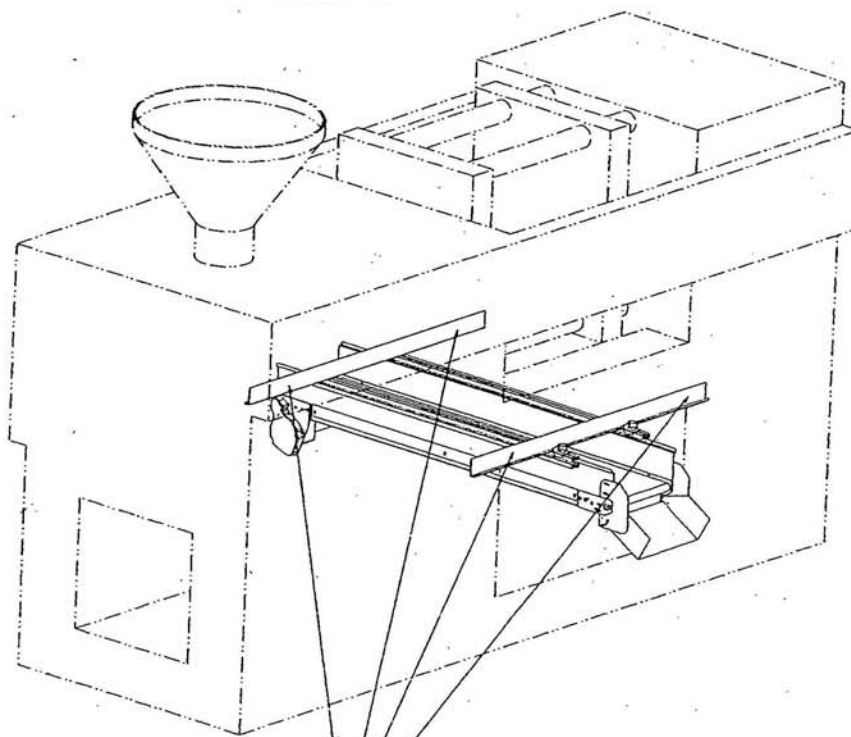


The Experts IN "Parts Management Systems"
MOLDING AUTOMATION CONCEPTS, INC.

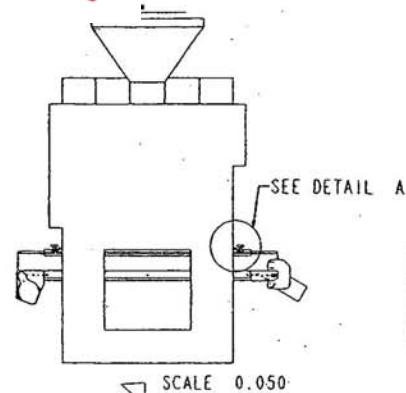
1760 KILKENNY COURT • WOODSTOCK, IL 60098 • WITHIN IL-815/337-3000 • OUTSIDE IL-800/435-6979

MAC

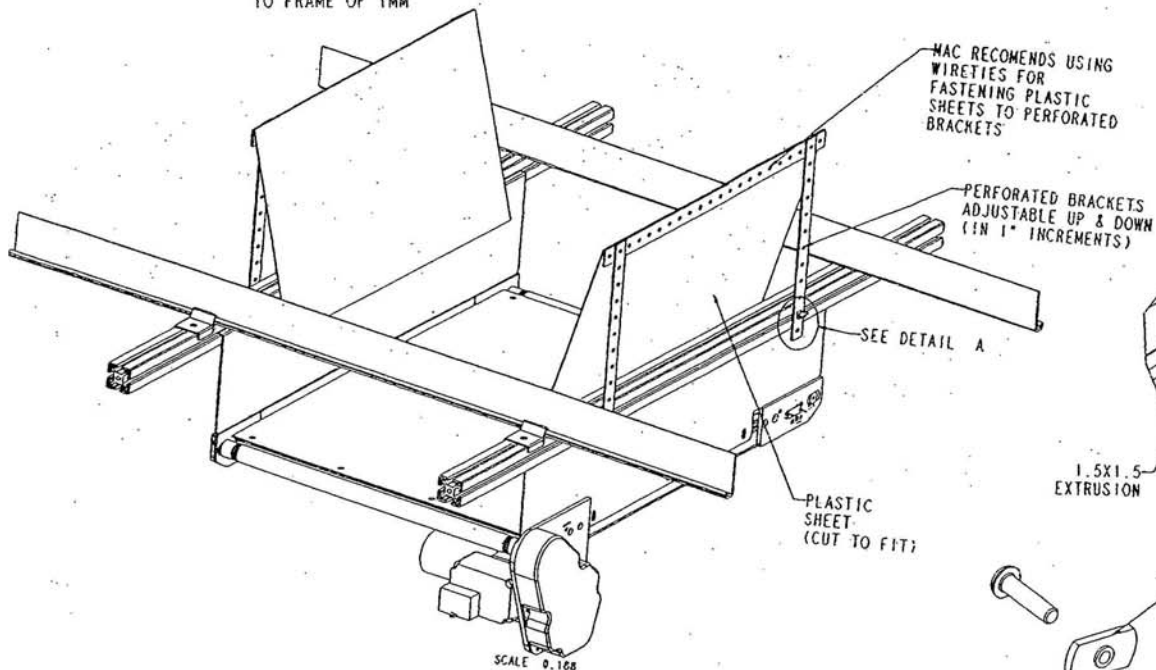
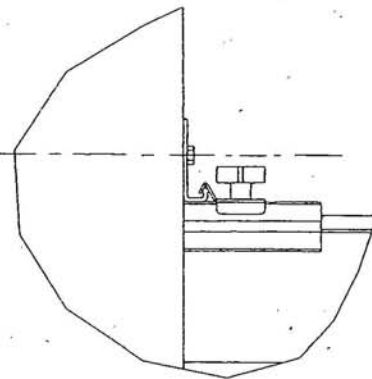
AUTOMATION CONCEPTS



BOLT EXTRUSION
TO FRAME OF 1MM



SCALE 0.050



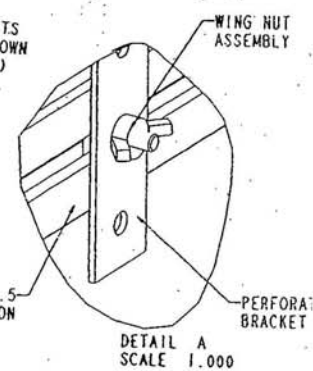
MAC RECOMMENDS USING
WIRE TIES FOR
FASTENING PLASTIC
SHEETS TO PERFORATED
BRACKETS

PERFORATED BRACKETS
ADJUSTABLE UP & DOWN
(IN 1" INCREMENTS)

SEE DETAIL A

PLASTIC
SHEET
(CUT TO FIT)

SCALE 0.100

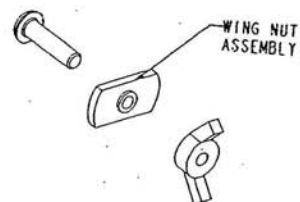


WING NUT
ASSEMBLY

1.5X1.5
EXTRUSION

PERFORATED
BRACKET

DETAIL A
SCALE 1.000



WING NUT
ASSEMBLY

SCALE 1.000

Quick Change Rails Installation

1. Bolt “J” Extrusion (provided by MAC) to frame of IMM using 5/16-18 Button head screws, Warning: Please be sure not to drill in to electrical wires this can cause some extensive repair to your machine.
2. Once “J” Extrusion is in place please slide in the black knobs in to the 1.5”x1.5” extrusion top slot , this will hold the 1.5”x1.5” extrusion in place.(Please see Detail “A” top right hand picture)
3. Please center the extrusion according to the distance between the conveyor rails, slide in the conveyor rails in to the 1.5”x 1.5” inside slot. This will allow the conveyor to sit in place.
4. Please be sure that the 1.5”x1.5” extrusion is not pinching the conveyor rails to tight, this will not allow your conveyor rails to slide in or out easily. We want the conveyor rails to be free in the 1.5”x1.5” extrusion slots so conveyor can be easily remove for mold change or maintenance.
(Please see Detail “ A” top right hand picture .)
5. Tighten all black knobs to insure that 1.5”x1.5” extrusion won’t move do to vibration of IMM machine.
6. Your next step is to install your QCPC Package if Applicable.

Containment Package Assembly instructions

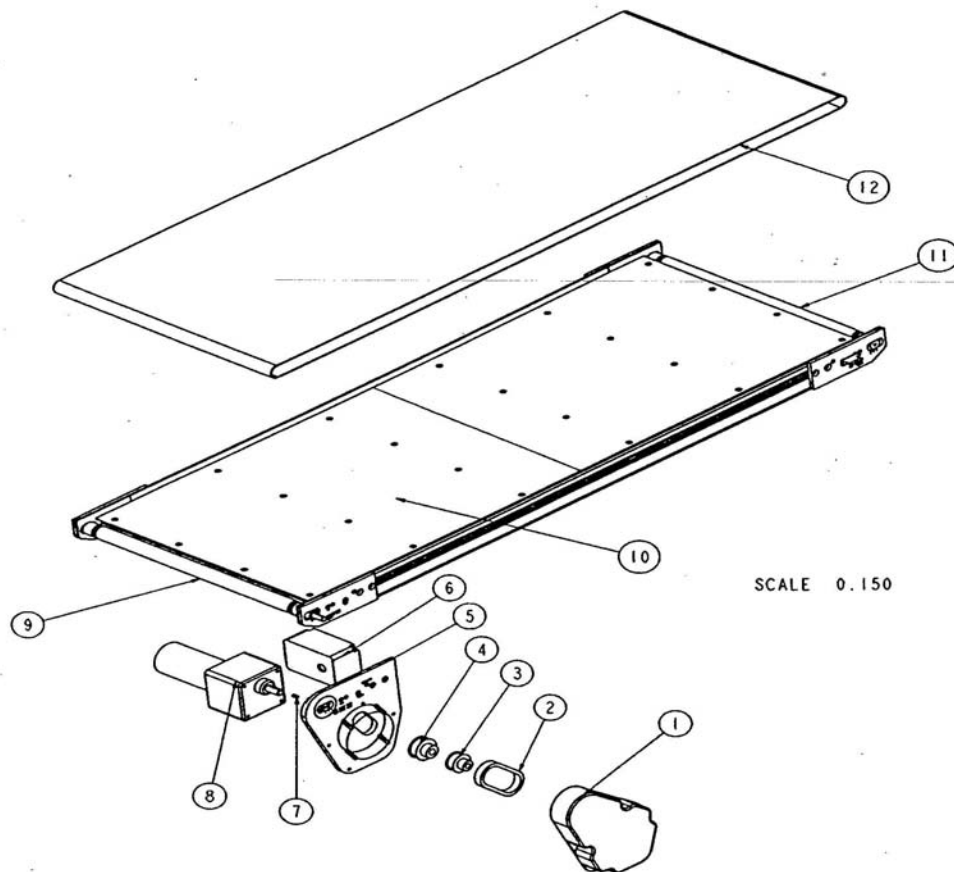
1. Once you have conveyor in place insert ¼-20 bolts with sliders into 1.5” X 1.5” Extrusion slot (see detail “A”)
2. Cut to fit plastics sheet according to your specifications and make appropriate holes to fasten in to 1” perforated brackets using wireties . Please refer to above drawing.
3. Perforated brackets can be adjustable up or down in 1” increments.
4. Please repeat installation on other side.



LPA BILL OF MATERIAL

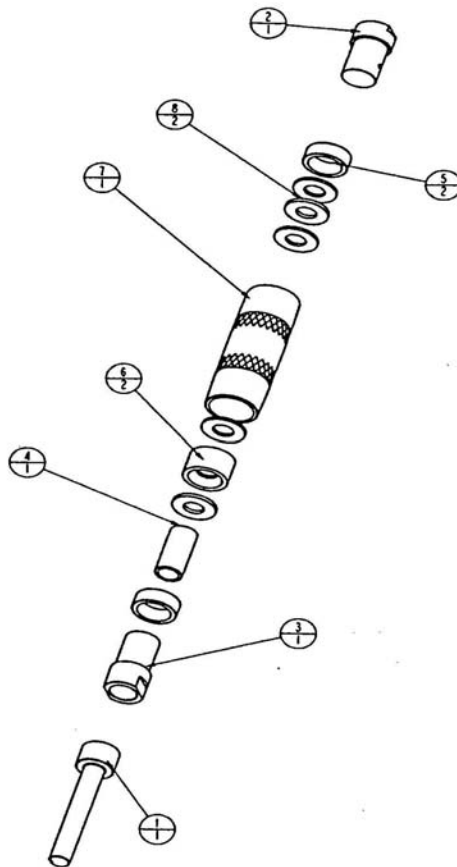
LPA CONVEYOR

- | | | |
|----------------|--|---------------|
| 1. 00042851 | COVER CHAIN GUARD | |
| 2. 00021588 | BRN GEARBELT, 124L0510 | |
| 3. 00021590 | PULLEY, TIMING 12 TH 1/2B 3/8P 12LF05 | |
| 4. 00021589 | PULLEY, TIMING, 10 TH 3/8B 3/8P, 10LF05 | |
| 5. 00057050 | PLATE, MOTOR MOUNT LPA, RIGHT (00057073 LEFT) | |
| 6. OPTIONAL | BOD ACC 0984 DIECAST T-BOX | |
| 7. 00039838 | KEY, 3/32X3/8 LONG | |
| 8. OPTIONAL | BOD MTR (Serial #, Model & Type) | |
| 9. OPTIONAL | PULLEY, ASSY, MT100 DRIVE (Width of LPA) | |
| 10. OPTIONAL | SLIDER BED STAINLESS STEEL (Width and length) | |
| 11. OPTIONAL | PULLEY, ASSY, MT100 IDLE (width of LPA) | |
| 12. OPTIONAL | BELT, ENDLESS OR CLEATED | |
| 13. [REDACTED] | ASSY, TAKE-UP, LPA, LEFT | New #56435004 |
| 14. [REDACTED] | ASSY, TAKE-UP, LPA, RIGHT | New #56435005 |
| 15. 00039950 | MCG CAM ROLLERS CYLINDERS (not shown) | |
| 16. 00040635 | QCRS RETAINER (not shown) | |
| 17. OPTIONAL | BOD CAPACITOR (not shown) | |
| 18. 6350 | CORD, BLK SJTO 18/3 W/PLUG (not shown) | |



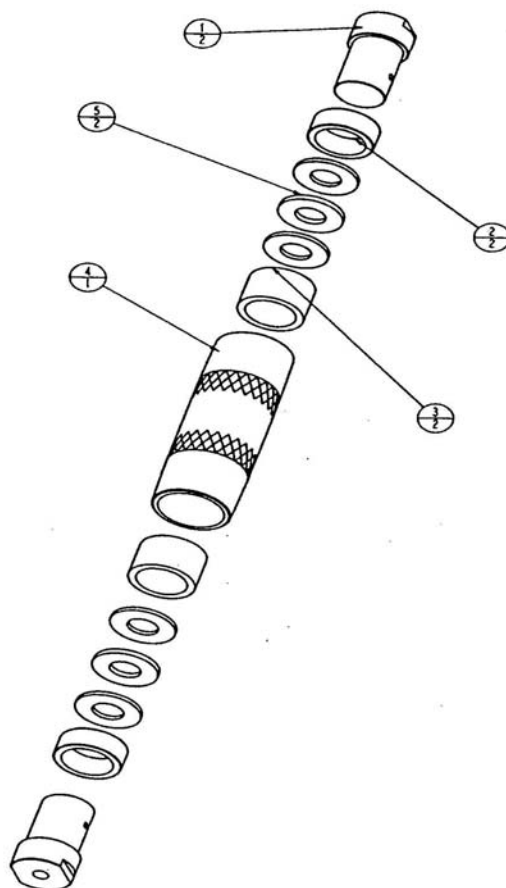


The Experts in "Parts Management Systems"



LPA DRIVE PULLEY ASSY, BILL OF MATERIAL

1. 00018447	SHAFT, DRIVE, MT100
2. 00018449	HUB,IDLE, MT100
3. 00018450	HUB,DRIVE, MT100
4. 00024740	BRONZE BUSHING
5. 00040634	INA,BEARING SCE-105-NO SEAL
6. 00043409	INA,BEARING SCE-109-P
7. 45195902	PULLEY,MT100 GENERIC TUBE
8. 00029650	THRUST BEARING ASSEMBLY



LPA IDLE PULLEY ASSY, BILL OF MATERIAL

1. 00018449	HUB IDLE MT100
2. 00040634	INA BEARING SCE-105 NO SEAL
3. 00043409	INA BEARING SCE-109-P
4. 45195902	PULLEY,MT100 GENERIC TUBE
5. 00029650	THRUST BEARING ASSEMBLY



CONVEYOR MAINTENANCE GUIDE

Congratulations,

You have just purchased, and are about to use, one of the many fine engineered conveyors available from MAC. When you buy MAC, you buy not only the equipment; but, also the support of an organization with a caring staff of engineering, sales, service, and manufacturing professionals.

From all of us at MAC, "Thank You", for favoring us with your business. We look forward to serving your future conveyor and automation needs. Should you have any questions or comments, we can be reached at

**MAC Automation Concepts, Inc.
1760 Kilkenny Court
Woodstock, Illinois 60098-7437**

1-800-435-6979 or FAX 815-337-3020

Again, congratulations and welcome to the MAC Family of Products.



Visit our updated website www.macautomation.com for more information on all of our Parts Handling Equipment and Systems!

Low Profile Aluminum Conveyor Drive & Idle Pulleys

It is recommended for long life and optimum operating conditions to properly grease with a quality grease lubricant every 4-6 weeks in a continuous run operation. In a periodic operating environment, every 6-8 weeks.

ELECTRICAL

Standard equipment is a UL approved IEC style starter. No maintenance is required as the unit comes from our factory adjusted and matched to the motor used. A 110/60/1 Power source is the standard requirement. If you have ordered one of the many electrical options MAC has available, Please refer to the accompanying electrical manual for any questions or call our factory.

Integral Gear-Motor

(Used on MAC Mode SF, most HI, LF MAC-TRAC 100 & MAC Aluminum Conveyors)

These Units are designed for round the clock use and utilize a semi-fluid grease in the gear case. No change of lubricant is required as is lubed for life.



Visit our updated website www.macautomation.com for more information on all of our Parts Handling Equipment and Systems!

Low Profile Aluminum Conveyor Service Log

Date Of Service

Grease Drive & Idle Pulley's				
Change oil If Applies				
Check Belt Tracking				

Grease Drive & Idle Pulley's				
Change oil If Applies				
Check Belt Tracking				

Grease Drive & Idle Pulley's				
Change oil If Applies				
Check Belt Tracking				

Grease Drive & Idle Pulley's				
Change oil If Applies				
Check Belt Tracking				

BELT TRACKING

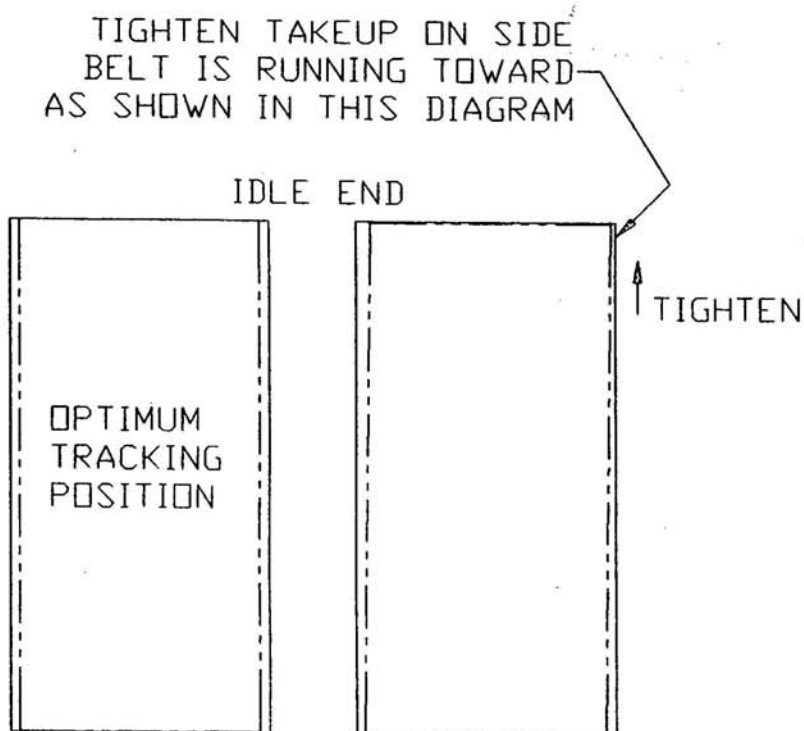
MAC uses the most highly recommended pulley design by belt manufacturers. It is a trapezoidal style crown. The monofilament backed belt we use has a high resistance to belt stretch which results in minimal maintenance. If your conveyor comes:

A) Completely assembled with belt installed:

We recommend that upon initial power up, the belt be monitored for a short period of time to ensure nothing has loosened up during shipment, and the belt remains centered on the pulleys.

B) Requiring belt installation:

- 1) Square up drive pulley with frame.
- 2) Install belt according to assembly instructions guide.
- 3) Center the belt on the idle pulley.
- 4) Tighten up the idle pulley and maintain belt center.
- 5) Turn on power. If belt tracks off center of idle pulley follow the diagram below.



MAC TRAC 100 LOW PROFILE CONVEYORS

BELT REPLACEMENT
INSTRUCTIONS

1. DISCONNECT ALL POWER FROM THE CONVEYOR.
2. REMOVE FOUR LEGS OR STAND.
3. LOOSEN UP THE TENSION ON ALL FOUR TAKE UP CASTING.
4. REMOVE LEFT SIDE RAIL.
5. REMOVE LEFT SIDE TAKE-UP CASTING. (Note: Idle pulley will hang from the opposite casting.).
6. UNBOLT STARTER BOX OR VARIABLE SPEED CONTROL FROM FRAME IF APPLICABLE.
7. REMOVE THE BELT FROM THE IDLE END OF THE CONVEYOR- WORKING TOWARDS THE DRIVE END.
8. REASSEMBLE CONVEYOR IN REVERSE ORDER MAKING THAT ALL SET SCREWS & BOLTS ARE TIGHTENED PROPERLY.

WHEN ORDERING REPLACEMENT PARTS, PLEASE SPECIFY CATALOG NUMBER, REF. NUMBER & DESCRIPTION.

MAC utilizes two styles of drive packages. Please determine which style fits your conveyor, and maintain it according to the instructions relative to the particular conveyor model you have purchased.

INTEGRAL GEAR-MOTOR

**(Used on MAC Model SF, most HI, LF,
MAC-TRAC 100 & MAC Aluminum conveyors)**

These units are designed for round the clock use and utilize a semi-fluid grease in the gear case. No change of lubricant is required as it is lubed for life.

C-FACE MOTOR & RIGHT ANGLE REDUCER

(Used on MAC Model HD, and some HI conveyors)

These units use Mobil 600W lubricant. The lubricant should be changed after the first 250 hours of use, and thereafter, at regular intervals of 2500 hours or every six (6) months. Should an overload occur, the oil could degrade from heat and must be replaced. Failure to comply with these recommendations will void any written warranty from MAC.

CHAIN & SPROCKETS

It is recommended for long life and optimum operating conditions to lubricate with a quality chain lubricant every 4-6 weeks in a continuous run operation. In a periodic operating environment, every 6-8 weeks.

ELECTRICAL

Standard equipment is a UL approved IEC style starter. No maintenance is required as the unit comes from our factory adjusted and matched to the motor used. A 110/60/1 power source is the standard requirement. If you have ordered one of the many electrical options MAC has available, please refer to the accompanying electrical manual for any questions or call our factory.

MAC utilizes two styles of drive packages. Please determine which style fits your conveyor, and maintain it according to the instructions relative to the particular conveyor model you have purchased.

INTEGRAL GEAR-MOTOR

**(Used on MAC Model SF, most HI, LF,
MAC-TRAC 100 & MAC Aluminum conveyors)**

These units are designed for round the clock use and utilize a semi-fluid grease in the gear case. No change of lubricant is required as it is lubed for life.

C-FACE MOTOR & RIGHT ANGLE REDUCER

(Used on MAC Model HD, and some HI conveyors)

These units use Mobil 600W lubricant. The lubricant should be changed after the first 250 hours of use, and thereafter, at regular intervals of 2500 hours or every six (6) months. Should an overload occur, the oil could degrade from heat and must be replaced. Failure to comply with these recommendations will void any written warranty from MAC.

CHAIN & SPROCKETS

It is recommended for long life and optimum operating conditions to lubricate with a quality chain lubricant every 4-6 weeks in a continuous run operation. In a periodic operating environment, every 6-8 weeks.

ELECTRICAL

Standard equipment is a UL approved IEC style starter. No maintenance is required as the unit comes from our factory adjusted and matched to the motor used. A 110/60/1 power source is the standard requirement. If you have ordered one of the many electrical options MAC has available, please refer to the accompanying electrical manual for any questions or call our factory.

BELT TRACKING

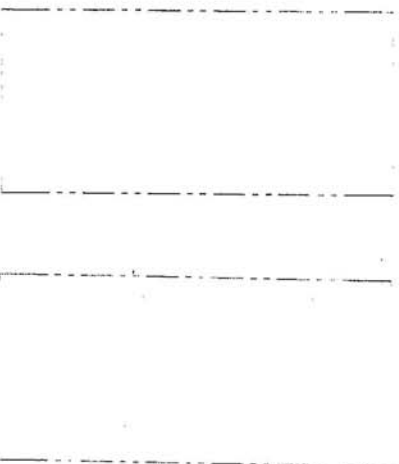
MAC uses the most highly recommended pulley design by belt manufacturers. It is a trapezoidal style crown. The monofilament backed belt we use has a high resistance to belt stretch which results in minimal maintenance. If your conveyor comes:

A) Completely assembled with belt installed:

We recommend that upon initial power up, the belt be monitored for a short period of time to ensure nothing has loosened up during shipment, and the belt remains centered on the pulleys.

B) Requiring belt installation:

- 1) Square up drive pulley with frame.
- 2) Install belt according to assembly instructions guide.
- 3) Center the belt on the idle pulley.
- 4) Tighten up the idle pulley and maintain belt center.
- 5) Turn on power. If belt tracks off center of idle pulley follow the diagram below.



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.