		500 PATRIARC® CWANA code					
		CORD OPERATED/MOTORIZED				WALK-ALONG	
	Parts Included	500 (600)	500-R (600-R)	501 (601)	501-R (601-R)	502 (602)	502-R (602-R)
	STRAIGHT			√	√	√	√
	CURVED*	√	√			√	√
Single Carriers	5001 (BL)	√		√	√	√	
	5001-A (BL)		√				√
Master Carriers	5002 (BL)	√		√		√	
	5002-A (BL)				√		√
Pulleys	5003 (BL)	√	√	√	√		
	5004 (BL)	√	√	√	√		
	2866**	√	√	√	√		
Cable Guide	5058	√	√	√	√		
Cord	2828**	√	√	√	√		

BL = Black Finish
6XX Series Track Systems have a black finish.

*Must be factory curved.

**For manually operated tracks, replace 5029 cable (standard) with 2828 cord. Heavy duty track applications generally require motorization.

SPECIFICATIONS:

PATRIARC® Model 500 (600) Curtain Tracks

Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12” centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5” diameter ball-bearing wheels adequately guarded. Nylon cable guides **(Model 5058)** shall be furnished for the purpose of guiding operating cable along the contour of the factory-formed curved track. Operating cable (Model 5029) shall be of 3/16” diameter extruded nylon with wire-center. 1-1 /4” I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 500(600) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 500-R (600-R) Curtain Tracks

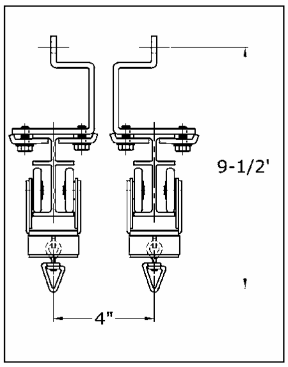
Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12” centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5” diameter ball-bearing wheels adequately guarded. Nylon cable guides **(Model 5058)** shall be furnished for the purpose of guiding operating cable along the contour of the factory-formed curved track. Operating cable (Model 5029) shall be of 3/16” diameter extruded nylon with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support both straight and curved areas of all suspended curved tracks. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 500-R(600-R) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 501 (601) Curtain Tracks (Straight-Uncurved Systems)

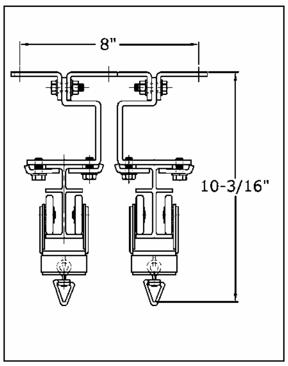
Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12” centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5” diameter ball-bearing wheels adequately guarded. Operating cable (Model 5029) shall be of 3/16” diameter extruded nylon with wire-center. 1-1/4” I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 501(601) as manufactured by Automatic Devices Company of Allentown, PA.

Model 500 Assembly

Cross Section of 500 Suspended

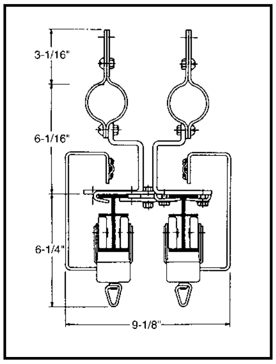


Cross Section of 500 Ceiling Mount



Cross Section of 500 track at Center Overlap Pipe Mounted

Min. pocket width: 10 in.



Shown with optional pipe clamps.

PATRIARC® MODEL 500 (600)

PATRIARC® is an all-purpose heavy-duty stage curtain track system specially designed for large reverse curved auditorium stages. All curves are custom formed at the factory. Equipped with ball-bearing carriers, end pulleys and cable guides, this is one of the quietest tracks in the ADC line.

PATRIARC® track systems are normally used with a machine operator. Each drum curtain machine furnished with PATRIARC systems is equipped with a Cable Tension Device at no extra cost. Cable Tension Devices are used to help maintain tension on the operating cables as well help guide the operating cable onto the grooved drum.

PATRIARC® curved tracks are available for hand-operation, though not recommended.Curved track systems are inherently more difficult to operate manually than are straight track systems. While PATRIARC® tracks are available for manual applications, we suggest motorizing curved applications of the track.

MODEL 500-R (600-R)

Model 500-R(600-R) is identical to Model 500(600) except that No. 5001-A neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001 single carriers.

MODELS 501 AND 501-R (600 AND 601-R)

Model 501(601) is entirely straight in layout. Model 501-R(601-R) is identical to Model 501(601) except that No. 5001-A(BL) neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001(BL) single carriers.

MODELS 502 AND 502-R (602 AND 602-R) (Walk-Along Systems)

Model 502(602) is for walk-along operation only. This track system is recommended for stage cyclorama installations where it is necessary that the operator walk the curtain to its opened and closed positions. No cord or pulleys are supplied with walk-along tracks. No. 5002-A(BL) Master Carriers and No. 5008-A Hanging Clamps (or No. 5023A Ceiling Clamps) are used instead of No. 5002(BL) and No. 5008. Model 502-R(602-R) is identical to Model 502(602) except that No. 5001-A(BL) neoprene-tired Ball-Bearing Single Carriers are used in place of the standard nylon-tired No. 5001(BL) single carriers.

SPECIFICATIONS:

PATRIARC® Model 501-R (601-R) Curtain Tracks (Straight-Uncurved Systems)

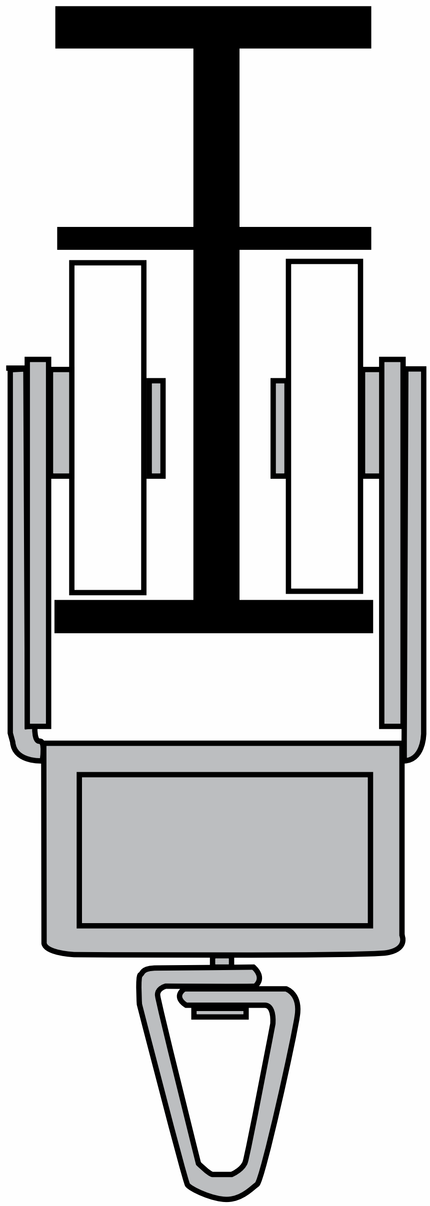
Curtain tracks (Model 5000 (5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Live-End **(Model 5003(BL))** and Dead-End **(Model 5004(BL))** pulley blocks shall be equipped with 5" diameter ball-bearing wheels adequately guarded. Operating cable (Model 5029) shall be of 3/16" diameter extruded nylon with wire-center. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish two end stops **(Model 5009(BL))** for placement at track ends.
Model 501-R(601-R) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 502 (602) Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 5000(5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001(BL))** shall be spaced on 12" centers and shall be of steel construction to include two nylon-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish four end stops **(Model 5009(BL))** for placement at track ends.
Model 502(602) as manufactured by Automatic Devices Company of Allentown, PA.

PATRIARC® Model 502-R (602-R) Curtain Tracks (Walk-Along Track System)

Curtain tracks (Model 5000(5000BL)) shall be of 7 gauge extruded aluminum I-beam construction consisting of a center rib and top, intermediate and bottom flanges. Each curtain carrier **(Model 5001-A(BL))** shall be spaced on 12" centers and shall be of steel construction to include two neoprene-tired ball-bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. 1-1/4" I.D. stiffening pipe or the equivalent shall be used to support track sections. The manufacturer shall furnish four end stops **(Model 5009(BL))** for placement at track ends.
Model 502-R(602-R) as manufactured by Automatic Devices Company of Allentown, PA.



Full Size End View

Explanation of Curved Track Terms

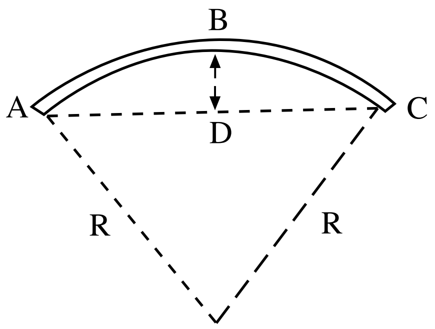
A sketch or template must accompany each inquiry or order for PATRIARC® curved tracks. The sketch shown below explains terms used in connection with curved tracks. A simple formula for determining the radius when Chord (AC) and Rise (BD) are given is as follows:

$$\text{Radius (R)} = \frac{\left(\frac{AC}{2}\right)^2 + BD^2}{2BD}$$

When placing an order for PATRIARC curved tracks, the following information is required:

A. Arc (track channel) and all radii dimensions
B. Manner of mounting track (suspended or ceiling-mounted).
C. Is the track machine or hand operated?

> NOTE: Track can be curved to a minimum 2' radius for curves up to 90 degrees. For curves greater than 90 degrees and systems with multiple curves please consult the factory.



ABC - Arc
AC - Chord
BD - Rise
R - Radius

No. 5000[BL] Channel

1' - 1-1/2 lbs.
7 gauge extruded aluminum, mill-finish (5000BL-Anodized Black Finish). Obtainable in unspliced lengths up to 20'. Custom-curved at factory. Flange above carrier prevents tilting of carrier.
Approximately: 1-5/8" wide x 3-1/4" high.

No. 5001[BL] Nylon Ball-Bearing Single Carrier

1 – 11 oz.
Carrier spacing: 12". Block constructed of plated steel supported from 2 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Rubber bumpers and nylon strips attached to carrier to assure quiet operation.
Carrier width: Approximately 2-1/8".

No. 5001-A[BL] Neoprene Ball-Bearing Single Carrier

1- 11 oz.
Carrier spacing: 12". Block constructed of plated steel supported from 2 neoprene-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Rubber bumpers and nylon strips attached to carrier to assure quiet operation.
Carrier width: Approximately 2-1/8".

5001DS DRIFT STOP CARRIER

1 - 12 oz
Prevents the last carrier of the system from drifting past a predetermined point in the stack area when the dead-end of the curtain is not tied off to the live or dead-end pulley.
Dimensions: 3-1/14” W x 2-1/4” L

No. 5002 Master Carrier

1 - 4 lbs. 3 oz.
Block constructed of painted steel supported from 4 nylon-tired ball-bearing wheels. Rubber bumper included for quieter operation. Carrier width: Approximately 5-1/4".

No. 5002-S Master Carrier With Extension Arm
1 - 4 lbs. 12 oz.
Used with single section track systems to create center overlap. Creates 20" overlap (10" in front of 10").
Approximately: 1'- 4" long x 6-9/16" high x 3-3/4" wide.

No. 5002-A Walk-Along Master Carrier
1 - 1 lb. 13 oz.
Master carrier for Model 500 track series systems with walk-along operation. Painted steel construction with nylon-tired ball-bearing equipped wheels and rubber bumpers for noise suppression.
Approximately: 5-1/16"L x 2-3/16"W

No. 5051 Scenery Panel Carrier
1 - 2 lbs. 6 oz.
Walk-along panel carrier for Model 500 track series systems. Adjustable bottom plate mounts directly to the top of the scenery panel allowing for leveling of the panel after installation. Painted steel construction with nylon-tired ball-bearing equipped wheels. **Maximum capacity is 150 pounds.**
Approximately: 5-1/16"L x 2-3/16"W

No. 5003(BL) Live End Pulley
1 - 6 lbs. 8 oz.
Plated steel construction equipped with 2 glass-filled nylon tired ball-bearing 5" diameter wheels. Attaches to track end. Extends beyond track 6".
Pulley width: Approximately 6-1/2".

No. 5004(BL) Dead End Pulley
1 - 2 lbs. 15 oz.
Plated steel construction equipped with 1 glass-filled nylon tired ball-bearing 5" diameter wheel. Attaches to track end.
Pulley width: Approximately 5".

No. 5003-F Flying Live End Pulley
1 – 5 lbs.
Used with flying type curtain machines. Routes operating cable 180 degrees up and over the track to the track mounted machine. Note: machine must be located at least 10' from the pulley.
Approximately: 8" long x 6" wide x 8" high.

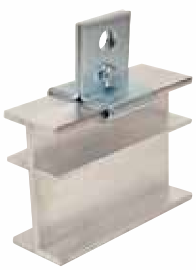
No. 5003-A Center Take-Off Live End Pulley
1 - 5 lbs. 14 oz.
Routes operating cables perpendicular to the track. Add 1 each Model 5004 when using this device. 5003-A must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to machine or floor pulley.
Approximately: 7-3/8" long x 6-1/2" wide x 2-3/8" high.

No. 5008 Hanging Clamp
1 - 1 lb. 4 oz.
Recommended spacing: 5' with additional units in curves and stack areas. Constructed of painted hardened steel. Pipe batten recommended for track suspension. Adjustable to any location.
Approximately: 4" high.

No. 5023B(BL) Ceiling Clamp
1 - 9.5 oz.
Recommended spacing: 5' with additional units at curves and in stack areas. Constructed of plated steel. For use with ceiling-mounted tracks. Approximately: 2-1/4" long x 1-1/4" wide x 1-3/4" high.

No. 5023A Ceiling Clamp for Walk-Along Systems

1 - 8 oz.
Used to ceiling mount Model 502 walk-along track systems. Allows track to be mounted directly to an overhead structure. Can ONLY be used with walk-along systems. Painted steel construction.
Approximately: 3-5/8"L x 1-1/2"W



No. 5008-A(BL) Hanging Clamp

1 pr. - 4.5 oz.
Used with Model 502 suspended walk-along systems only.
Recommended spacing: 5' with additional units at curves and in stacking areas. Constructed of plated steel. Pipe batten recommended for track suspension.
Approximately: 1-1/2"W x 2"L x 2"H

No. 5024(BL) Splicing Clamp

1 pr. - 1 lb. 3 oz.
Splicing bars for joining track sections assuring proper alignment of track.
Approximately: 6" long x 3/8 wide x 7/8" high.

No. 5009 End Stop

1 - 1.5 oz.
Prevents carriers from moving beyond selected position in track.
Located at center overlap and end of tracks.

No. 5007(BL) Lap Clamp

2 - 2 lbs. 13 oz.
For attaching double-sectioned track at center overlap. Assures proper spacing of tracks.
Used with suspended bi-parting tracks only. Sold individually.

No. 5058 Cable Guide

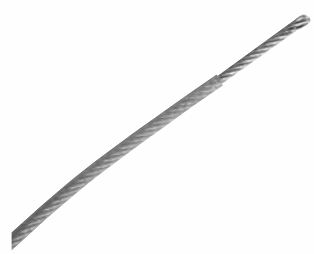
1 - 1 lb. 2 oz.
Consists of nylon ball-bearing rollers for guiding cable along track channel. Drawing of track layout required when ordering to assure proper roller placement. Available in 3 layouts color coded white, red, yellow.

No. 2866(BL) Adjustable Floor Pulley

1 - 5-1/2 lbs.
For manual operation. Equipped with 1 - 5" diameter glass-filled nylon ball-bearing wheel. Locks in place via threaded axle.
Adjustment – 7".
Approximately: 3" long x 5-1/2" wide x 13" high.

No. 2828 Cord

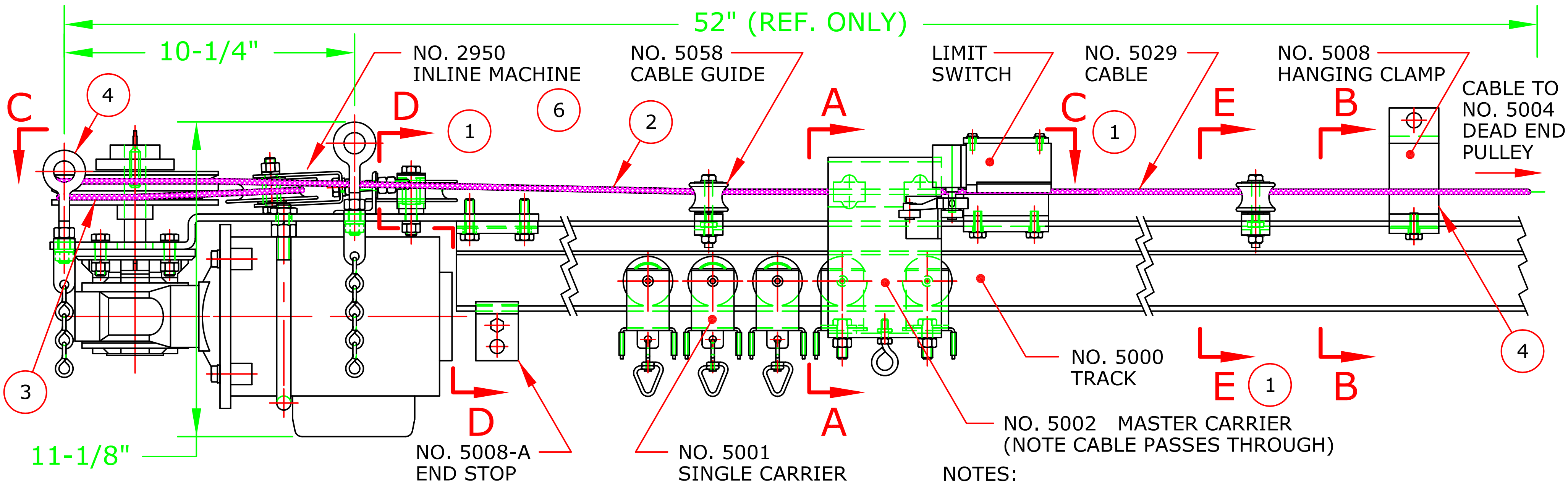
100' - 5 lbs. 7 oz.
For manual operation only.
3/8” diameter (No. 12)



No. 5029 Cable

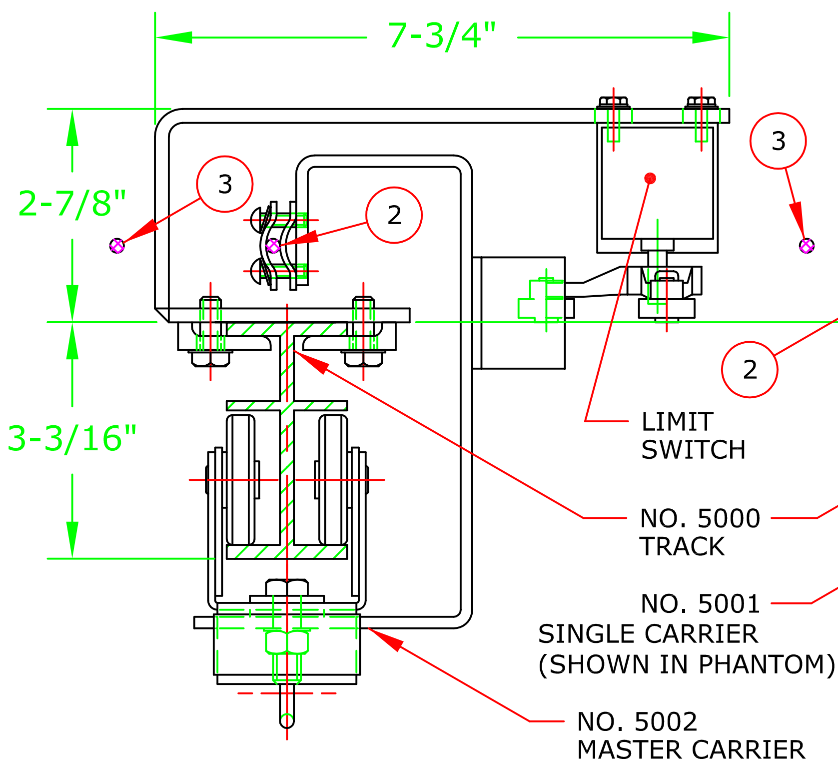
100' - 3 lbs. 10 oz.
Wire center with extruded nylon cover.
For machine operated 500 Series tracks only.
3/16" diameter (No. 6)

REV.		DATE:		FORM NO.: 2950MS



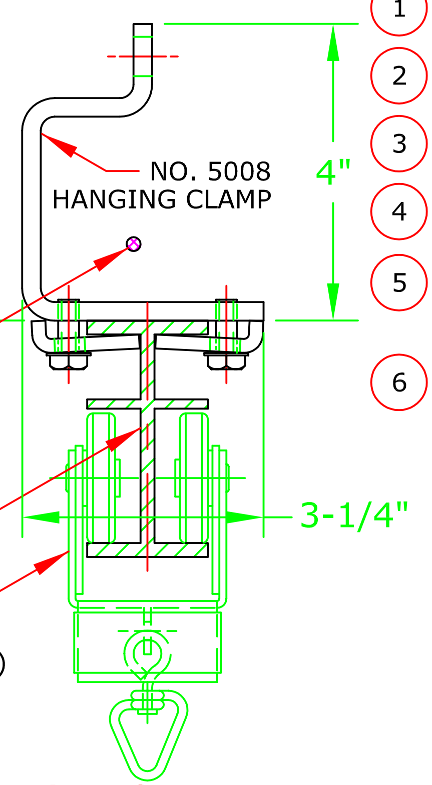
NOTES:

1. FOR ADDITIONAL VIEWS AND SECTIONS, SEE SHEET 2.
2. NO. 5029 CABLE INTO TOP GROOVE OF DRIVE SHEAVE.
3. NO. 5029 CABLE INTO BOTTOM GROOVE OF DRIVE SHEAVE.
4. TRACK SYSTEM MUST BE MOUNTED DIRECTLY TO AN OVERHEAD STRUCTURE.
5. 8 x 10 REMOTE CONTROL BOX NOT SHOWN. BOX IS WIRED TO MOTOR, LIMIT SWITCHES AND REMOTE CONTROL STATION.
6. FOR N0. 2950 INLINE MACHINE DETAILS, SEE DRAWING M-2950-1-04.



SECTION A-A

SCALE: 3/8=1

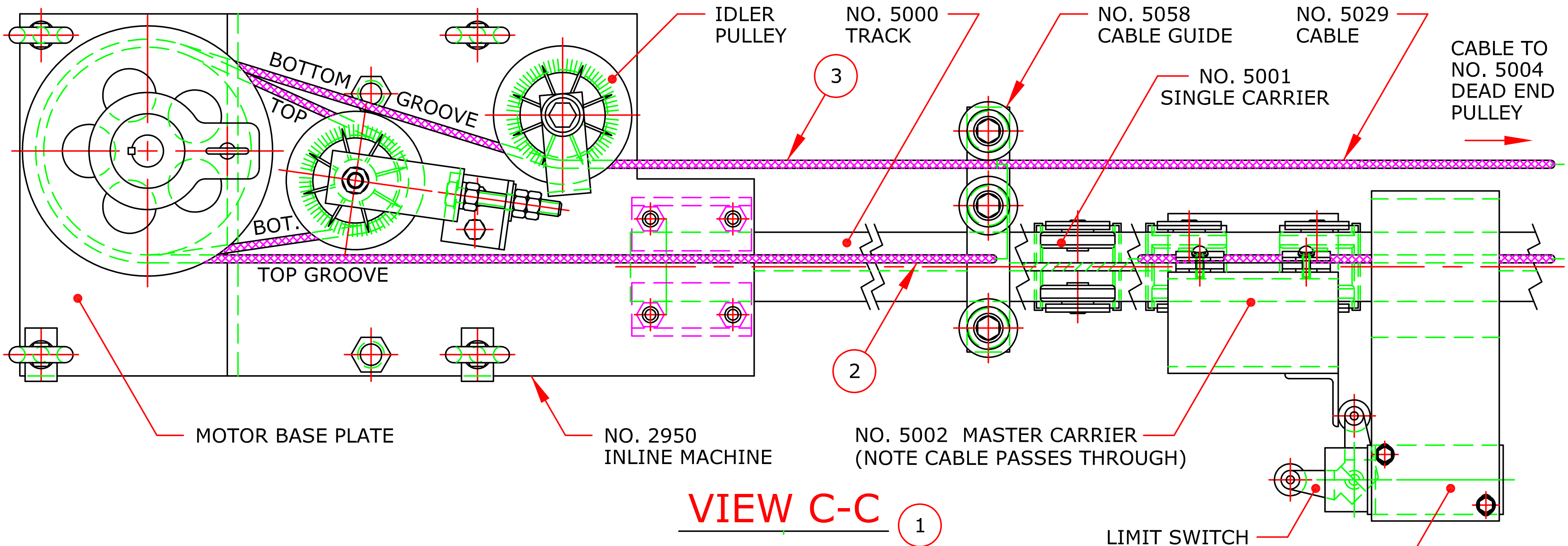


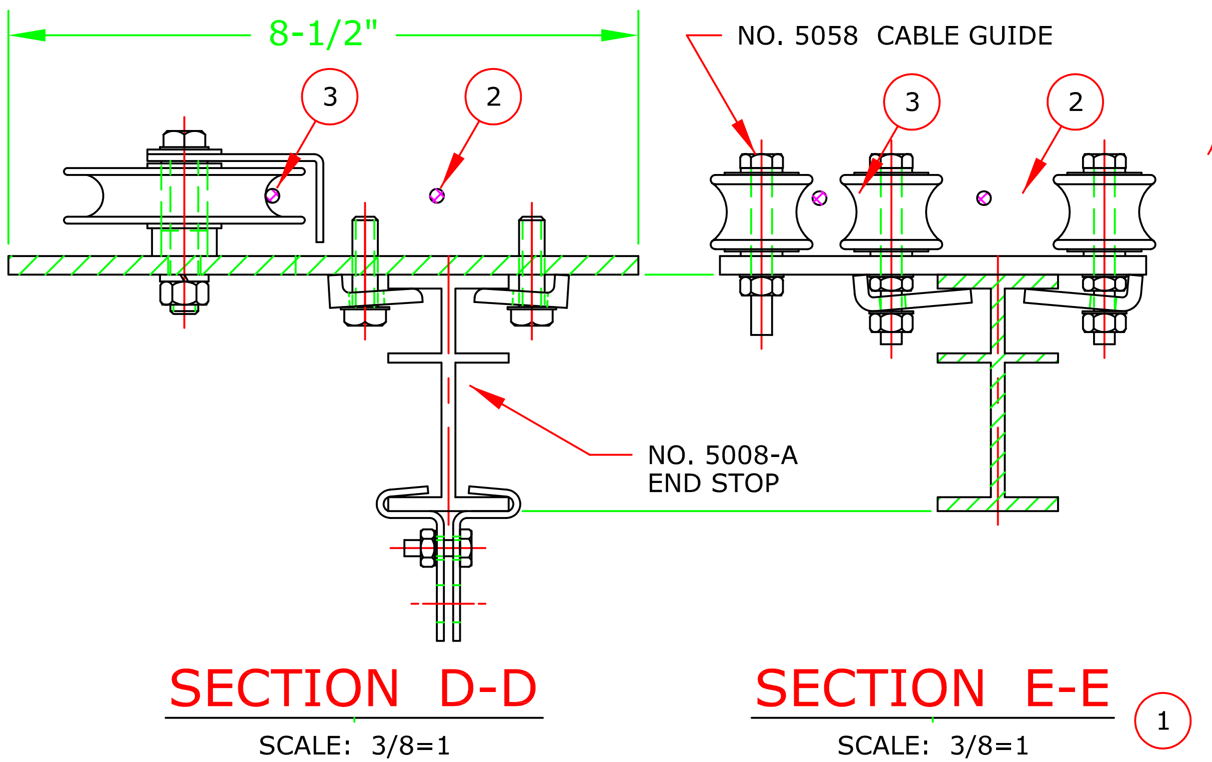
SECTION B-B

AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

SIZE	DATE	SERIES	
A	11/8/04	MODEL 500 PATRIARC CURTAIN TRACK	
DRAWN BY	APPROVED BY	DESCRIPTION	
JEK		INSTALLATION DRAWING 2950 INLINE MACHINE	
SCALE 3/16=1	SHEET 1 OF 2	DWG NO.	II-2950-1-04

REV.		DATE:		FORM NO.: 2950MS





NOTES:

1. FOR VIEW AND SECTION CUT LINES, SEE SHEET 1.
2. NO. 5029 CABLE INTO TOP GROOVE OF DRIVE SHEAVE.
3. NO. 5029 CABLE INTO BOTTOM GROOVE OF DRIVE SHEAVE.

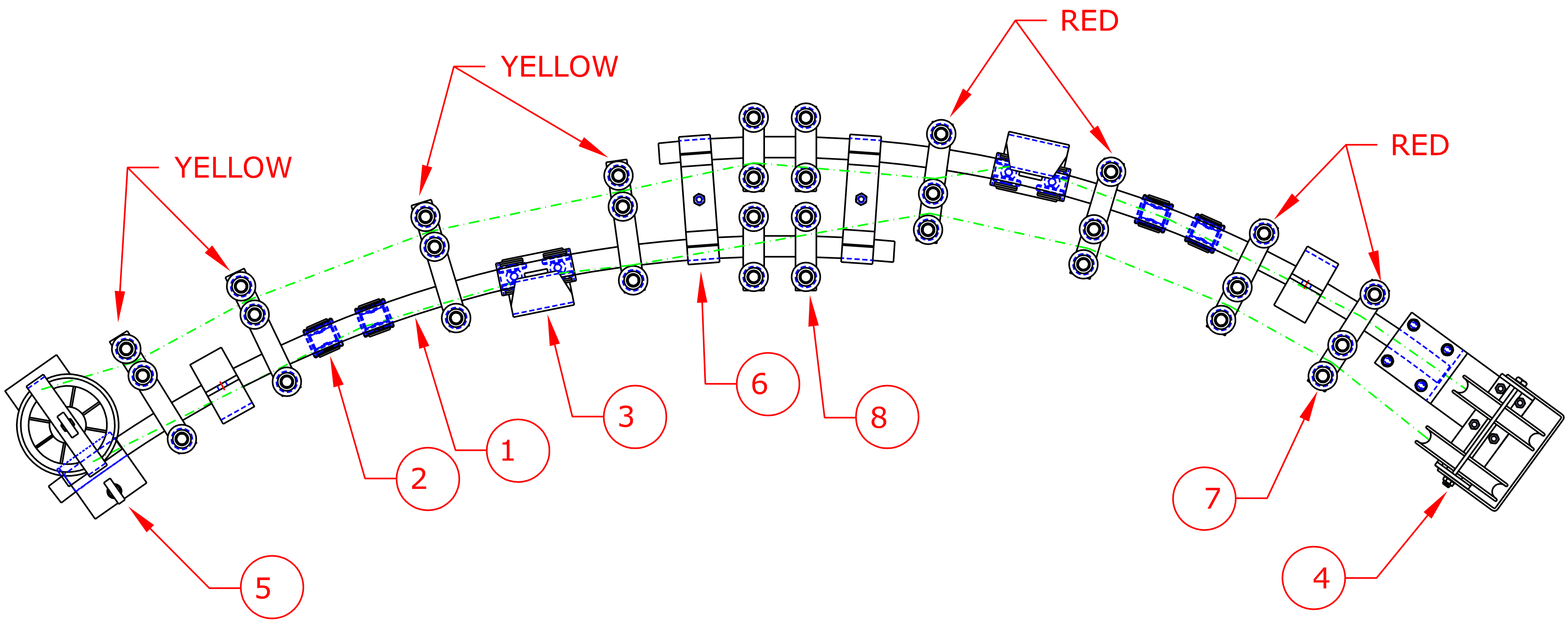
ada AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

SIZE	DATE	SERIES
A	11/17/04	MODEL 500 PATRIARC CURTAIN TRACK

DRAWN BY	APPROVED BY	DESCRIPTION
JEK		INSTALLATION DRAWING 2950 INLINE MACHINE

SCALE	SHEET	DWG NO.
9/32=1	2 OF 2	II-2950-2-04

REV		DATE:



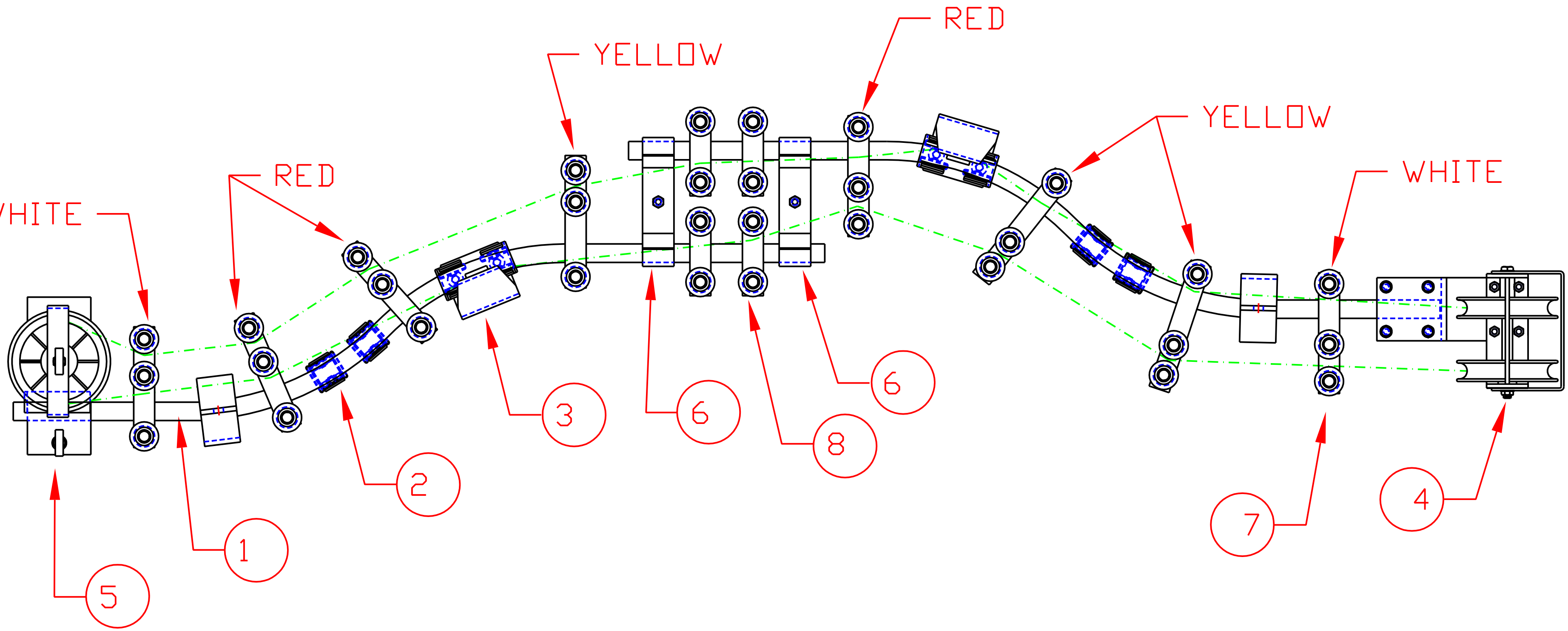
1. 5000 TRACK
2. 5001 SINGLE CARRIER
3. 5002 MASTER CARRIER
4. 5003 LIVE END PULLEY
5. 5004 DEAD END PULLEY
6. 5007 LAP CLAMP
7. 5058 CABLE GUIDE
8. 5058A CABLE GUIDE

NOTE:
CABLE GUIDES MUST BE INSTALLED ON TRACK AS PER COLOR CODE SHOWN

AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

SIZE	DATE		REV
A	06/08/98	INSTALLATION INSTRUCTIONS	
DRAWN BY	APPROVED BY	DESCRIPTION 500 TRACK ASSEMBLY-CONTINUOUS CURVE	
GAR			
SCALE NTS	SHEET 1 OF 1	DWG NO. II-500CC-98	

REV	DATE:



1 5000 TRACK

2 5001 SINGLE CARRIER

3 5002 MASTER CARRIER

4 5003 LIVE END PULLEY

5 5004 DEAD END PULLEY

6 5007 LAP CLAMP

7 5058 CABLE GUIDE

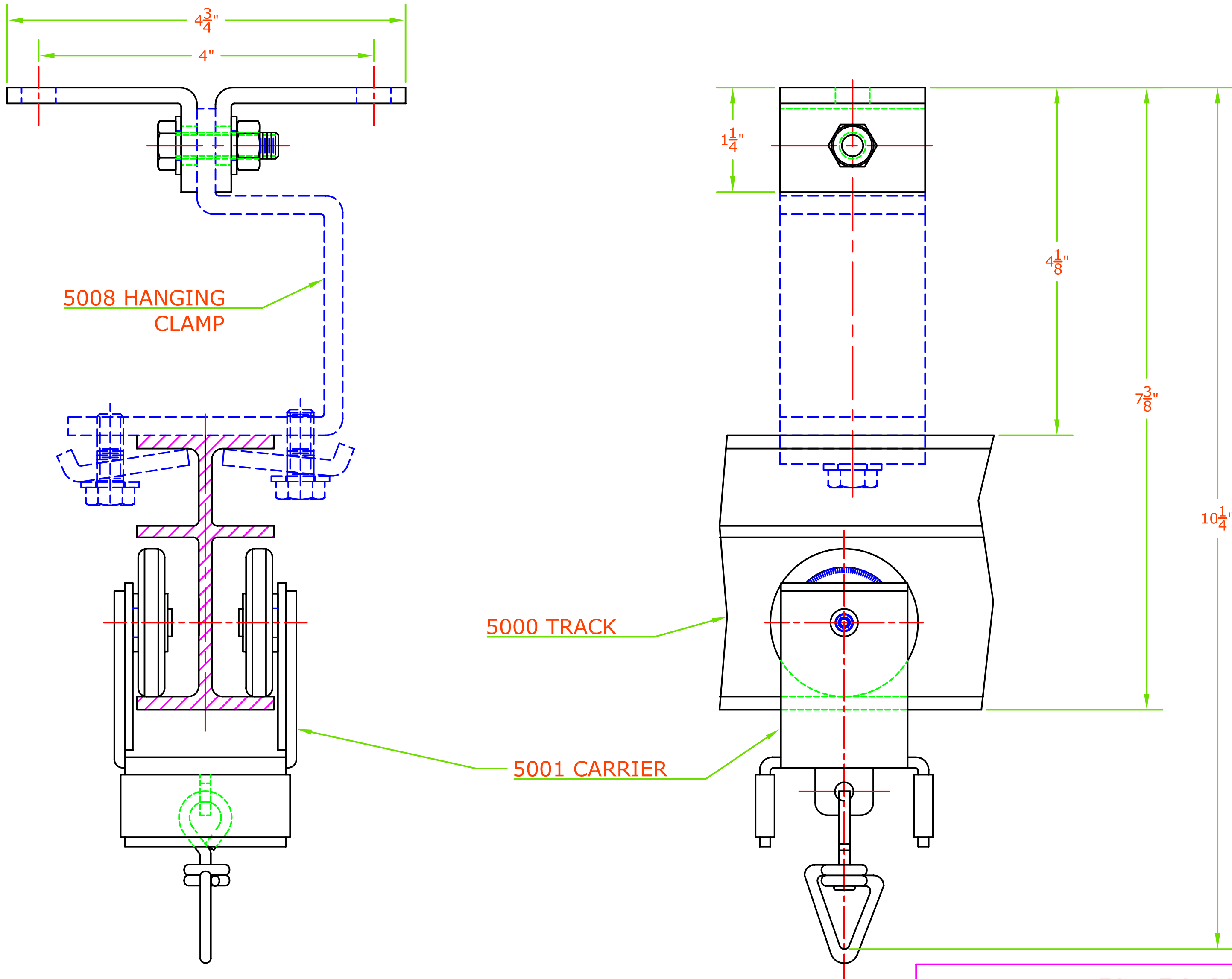
8 5058A CABLE GUIDE

NOTE:
CABLE GUIDES MUST BE INSTALLED ON TRACK AS PER COLOR CODE SHOWN.

AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

THIS DRAWING HAS BEEN PREPARED AS A SERVICE TO OUR CUSTOMER AND IS INTENDED ONLY TO BE SUGGESTIVE IN NATURE AND IS NOT TO BE USED AS AN ACTUAL INSTALLATION DRAWING. PREVAILING JOB CONDITIONS AND ACCEPTED PRACTICES MUST BE TAKEN INTO ACCOUNT WHEN THE EQUIPMENT IS INSTALLED.

SIZE	DATE	INSTALLATION INSTRUCTIONS	REV
A	06/08/98		
DRAWN BY GAR	APPROVED BY	DESCRIPTION 500 TRACK ASSEMBLY-REVERSE CURVE	
SCALE NTS	SHEET 1 OF 1	DWG NO. II-500RC-98	



NOTE:
SHOWN WITH 5008 HANGING CLAMP (NOT INCLUDED).
WITH 5023. 5023 SOLD IN PAIRS

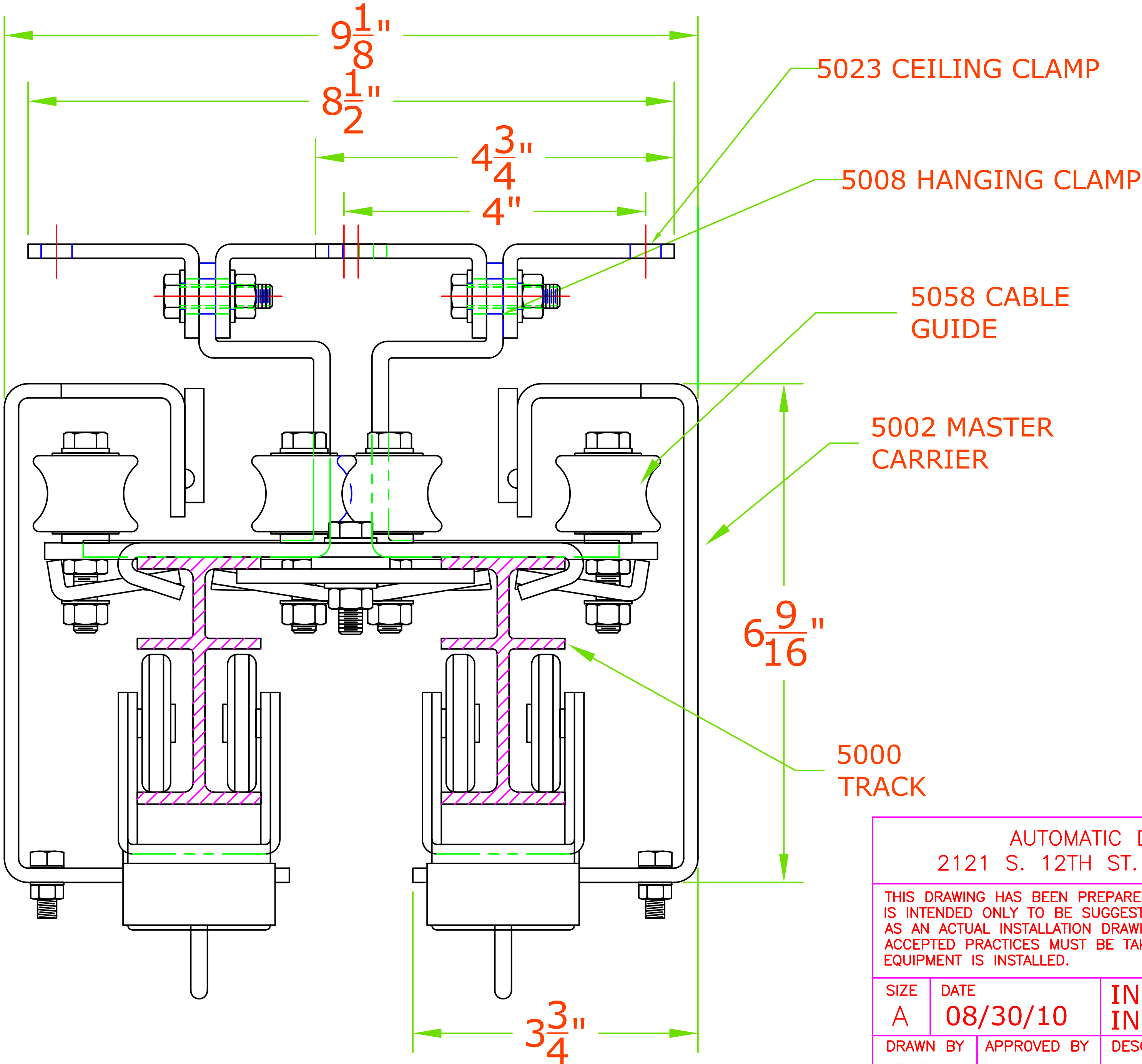
AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

SIZE	DATE		REV
A	05/05/10		

DRAWN BY	APPROVED BY	DESCRIPTION
DJL		ASSEMBLY 5000 5008, 5023

SCALE	SHEET	DWG NO.
1/2=1	2 OF2	A-5023/5000-2-10

REV | DATE:



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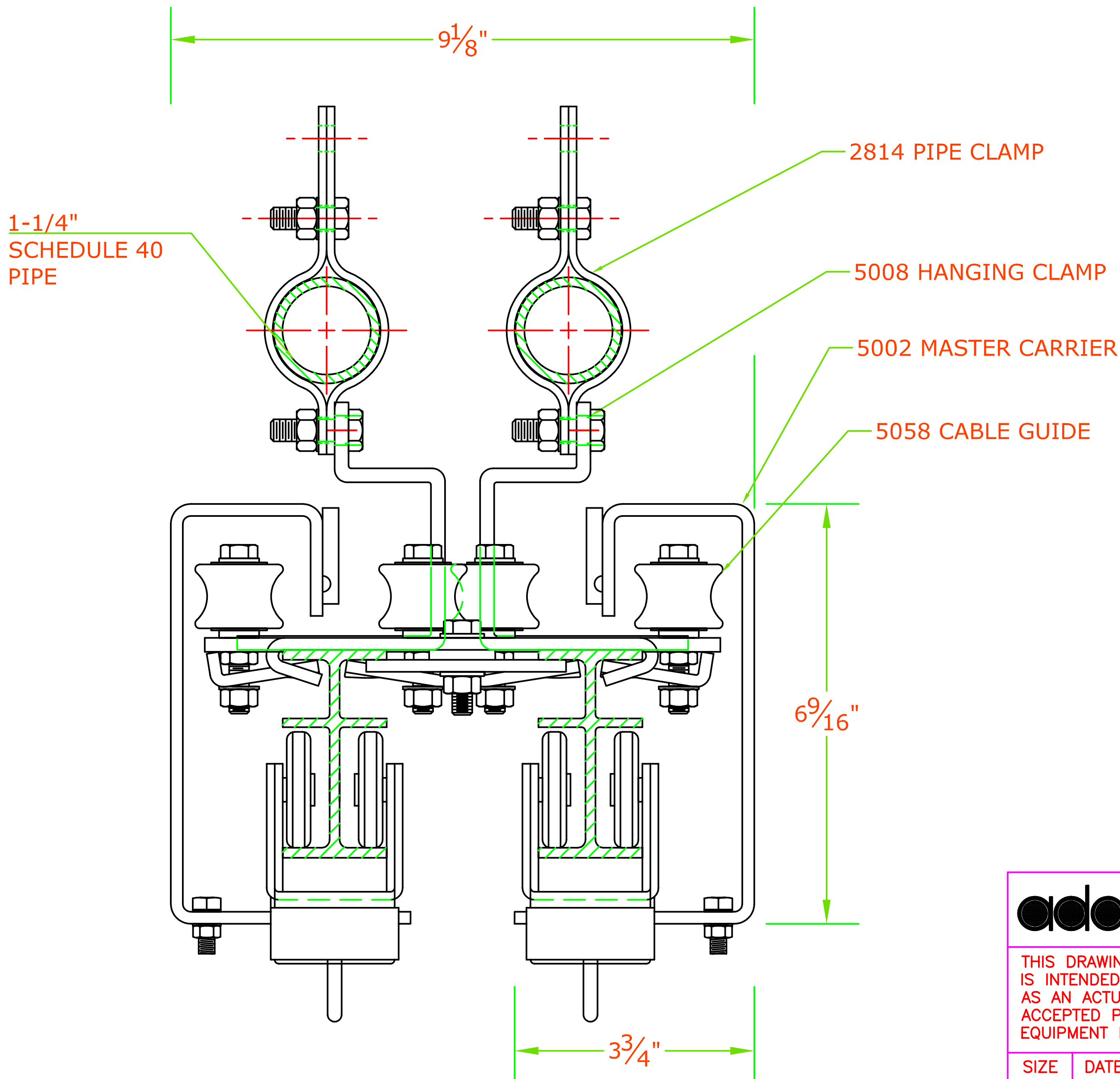
SIZE: A | DATE: 08/30/10 | INSTALLATION INSTRUCTIONS | REV

DRAWN BY: DJL | APPROVED BY: | DESCRIPTION: SECTION VIEW AT OVERLAP

SCALE: 1/2"=1" | SHEET: 1 OF 1 | DWG NO. II-5000L-10

REV.		DATE:		FORM NO.:



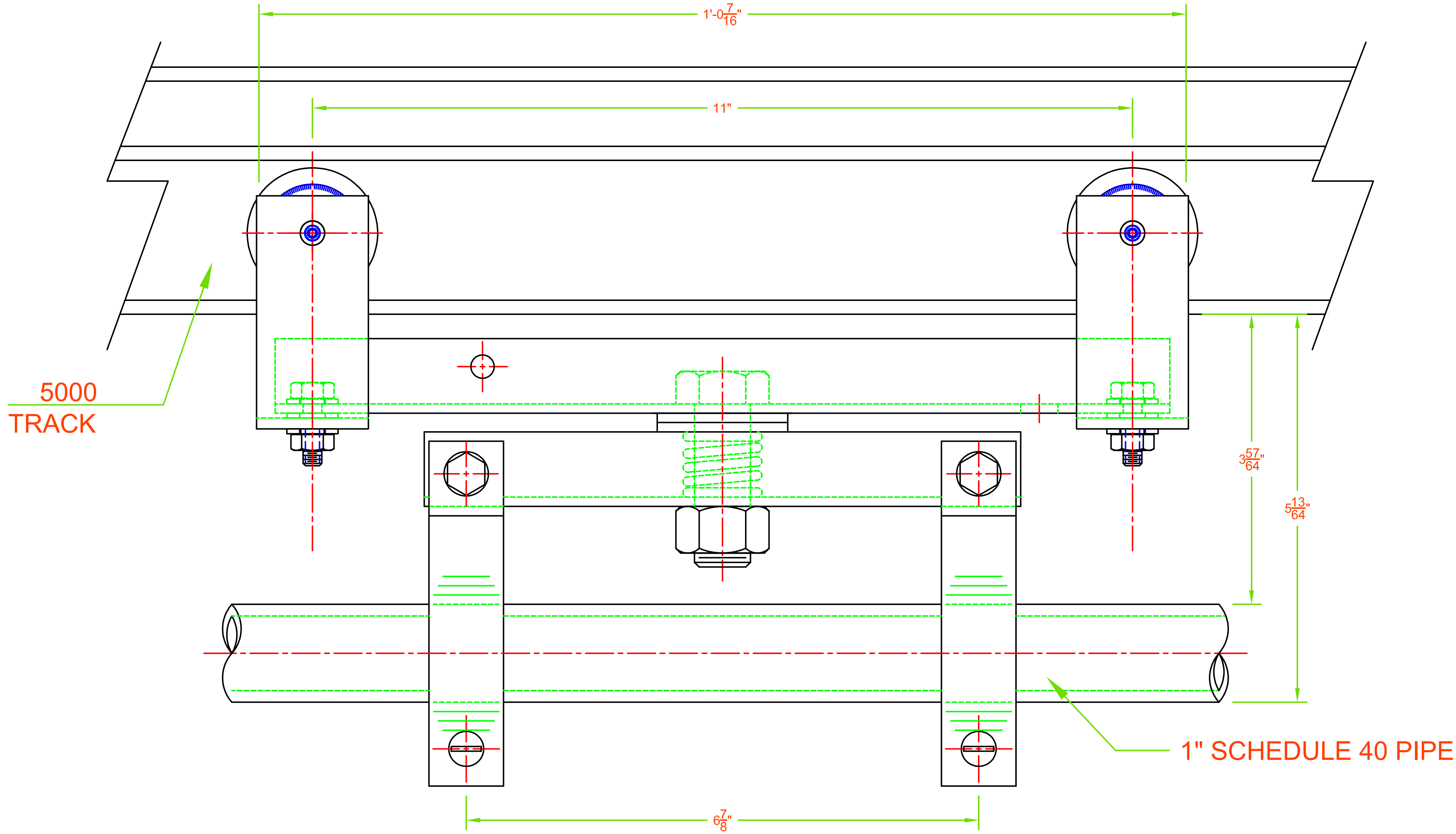
ade AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

THIS DRAWING HAS BEEN PREPARED AS A SERVICE TO OUR CUSTOMER AND IS INTENDED ONLY TO BE SUGGESTIVE IN NATURE AND IS NOT TO BE USED AS AN ACTUAL INSTALLATION DRAWING. PREVAILING JOB CONDITIONS AND ACCEPTED PRACTICES MUST BE TAKEN INTO ACCOUNT WHEN THE EQUIPMENT IS INSTALLED.

SIZE	DATE	SERIES
A	12/09/11	SYSTEM DRAWING

DRAWN BY	APPROVED BY	DESCRIPTION
DJL		SECTION 500 PIPE MOUNTED 1-1/4" PIPE

SCALE	SHEET	DWG NO.
3/8=1	1 OF 1	A-500OL-PM-1-11



MATERIAL: PAINTED (BLACK) FORMED STEEL

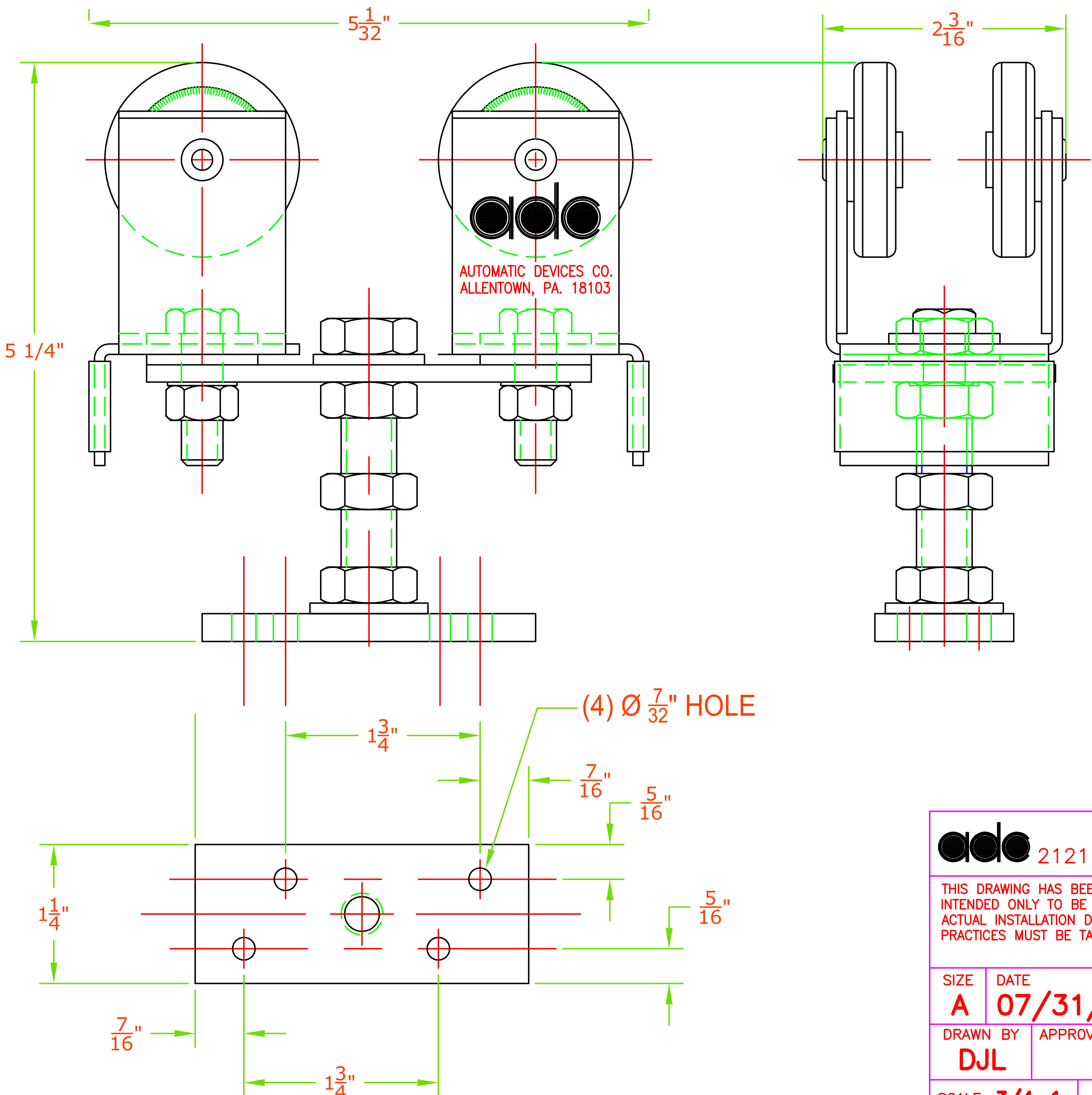
FOR USE WITH MODEL 5000 TRACK ONLY

PIPE MUST BE ORDERED SEPARATELY. 8' MAXIMUM LENGTH

AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

SIZE	DATE		REV
A	04/26/10	SIDE VIEW	
DRAWN BY DJL	APPROVED BY	DESCRIPTION #50 ROTODRAPER ASSEMBLY	
SCALE 1/2"=1"	SHEET 1 OF 2	DWG NO. A–50–10	

REV | | DATE:



PAINTED STEEL
CONSTRUCTION

NYLON-TIRED
BALL-BEARING WHEELS

AUTOMATIC DEVICES COMPANY
2121 S. 12TH ST. ALLENTOWN, PA 18103

THIS DRAWING HAS BEEN PREPARED AS A SERVICE TO OUR CUSTOMER AND IS INTENDED ONLY TO BE SUGGESTIVE IN NATURE AND IS NOT TO BE USED AS AN ACTUAL INSTALLATION DRAWING. PREVAILING JOB CONDITIONS AND ACCEPTED PRACTICES MUST BE TAKEN INTO ACCOUNT WHEN THE EQUIPMENT IS INSTALLED.

SIZE	DATE	SERIES
A	07/31/06	500

DRAWN BY	APPROVED BY	DESCRIPTION
DJL		WALK-ALONG SCENERY CARRIER

SCALE	SHEET	DWG NO.
3/4=1	1 OF 1	A-5051-06

INSTALLATION INSTRUCTIONS FOR MANUALLY OPERATED PATRIARC MODELS 500 AND 500-R

1. Lay the track sections on the floor with the arrow, number and color dot markings facing up. If the track system requires splicing, splice the track sections together by aligning the corresponding numbers on the track sections. To create the center overlap, align the arrow stickers of the track sections making sure that they are pointing towards each other and attach the lap clamps with the hardware provided.

2. The live-end and dead-end pulleys can be attached to either end of the track, but the live-end side must always be attached to the forward track section.

3. Install the hanging clamps to the top of the track. Note that the maximum separation for the hanging clamps is 5 feet. Install extra hanging clamps in the stack areas, curved areas, and at the ends of the track. The open side of the hanging clamp must face the side of the track which is traversed by the extension arm of the master carrier.

4. Attach the cable guides to the top of the track with the clamps and hardware provided. Match the color coded arrows with the color stickers of the guides. <u>Do</u> <u>not</u> tighten down the nylon rollers on the cable guides. Guide spacing is marked at the factory. These marks should be followed as closely as possible. If, because of hanging clamp locations, the cable guides can not be located as indicated by the arrows, they may be moved slightly to either side of the indicated location. If they are moved, be sure to keep the spacing between cable guides the same as the arrows would indicate. Do not exceed this spacing. Additional cable guides are provided for this purpose, should you need them. The guide spacing in a curve, should be symmetrical.

5. Install the single and master carriers at the open ends of the track at the center overlap, master carriers last. **Be sure to insert the master carrier so that the extension arm, with the cord connector, is on the same side of the track as the open side of the hanging clamps.**

6. Thread the operating cord over the wheel of the live-end pulley which is in line with the center of the track. Feed the cord between the cable guide rollers to the center overlap. At the center overlap, begin feeding the cord between two outboard cable guide rollers to the dead end pulley. Note that the master carrier has a two piece cable clamp which can be attached to the cable later. Do not cut the cord at the master carriers!

7. Feed the cord around the dead end pulley and back towards the center overlap between the center guides. At the overlap, feed the cord through the outboard guide rollers back to the second master carrier. Attach the end of the cord to the cable clamp located on the arm of the master carrier

8. Take the other end of the operating cord, feed it through the floor pulley and up over the other wheel of the live-end pulley. Continue cording through the cable guides of the track until you reach the master carrier with the first end of the cord already attached. Loosely

attach the cord.

9. Raise the track up and secure it in place to the overhead structure. Be sure to use appropriate hardware for attaching the track system to the overhead structure. Attach the floor pulley to the floor making sure that it remains aligned with the live-end pulley attached to the track.

10. Move the master carriers to the center overlap making sure that the carriers overlap equally. Disassemble the two piece cable clamp of the master carrier without the cord already attached. Place the operating cord so that the recessed portion of the clamp is directly over the cable. Making certain that the cable is straight, or in line with the recess in the cable clamp, securely tighten the two screws which hold the outer or smaller part of the clamp to the arm of the master carrier. Do not tighten the set screws on the master unless the master carrier is in its proper position.

11. Before operating the track, make certain that the cord is in its proper location between all of the cable guides and not under any of the parts which protrude from the track or on the wrong (non-open) side of the hanging clamps.

13. Carefully and slowly, operate the track system with the operating cord. If a master carrier should happen to strike a cable guide, loosen the hex nuts which clamp the brackets to the track and move this bracket until the master carrier clears it.

14. If the track operates properly, the Allen set screws on the master carriers can be fully tightened.

IMPORTANT NOTES

- The span between track supports should never exceed 5 feet. Additional supports should be placed on the curves, splices and the stacking areas.
- When the operating cord is threaded through the track, make certain that the cord runs between the cable guides and that it does not run underneath or on the wrong side of the hanging clamps.
- Carrier spacing should never exceed 12 inches.
- Minimum curve radius for 5000 series track is 2 feet.
- All curved suspended tracks should be additionally supported by 1-1/4" ID stiffening pipe, or the equivalent.
- Make certain that the live-end and dead-end pulleys are attached to the overhead structure.
- On the curves, make absolutely certain that the cable guides are placed close enough to the hanging clamps so that they will prevent the cable from rubbing the bracket of the

hanging clamps.

- When the installation has been completed and is in operation, the curtain should move back and forth without causing any noticeable track deflection.
- On tight reverse curved track systems, it may be desirable to link carriers together with chain or cable to facilitate curtain around curves.
- When linking carriers together, be sure to allow some fullness in the top of the curtain. If the curtain grommets are spaced 12 inches on center, then the carriers should be linked together on 10 inch centers. Be sure to take this into account when fabricating the curtain so that the curtain will properly cover the opening or screen.

IF THE INSTALLER SHOULD FAIL TO ABIDE BY THESE INSTRUCTIONS, SERIOUS PROBLEMS AND EQUIPMENT DAMAGE MAY OCCUR. THE FACTORY CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGES WHICH ARISE BECAUSE THE INSTRUCTIONS WERE NOT COMPLIED WITH IN EVERY DETAIL.

INSTALLATION INSTRUCTIONS FOR MOTORIZED PATRIARC MODELS 500 AND 500-R

1. Lay the track sections on the floor with the arrow, number and color dot markings facing up. If the track system requires splicing, splice the track sections together by aligning the corresponding numbers on the track sections. To create the center overlap, align the arrow stickers of the track sections making sure that they are pointing towards each other and attach the lap clamps with the hardware provided.

2. The live-end and dead-end pulleys can be attached to either end of the track, but the live-end side must always be attached to the forward track section.

3. Install the hanging clamps to the top of the track. Note that the maximum separation for the hanging clamps is 5 feet. Install extra hanging clamps in the stack areas, curved areas, and at the ends of the track. The open side of the hanging clamp must face the side of the track which is traversed by the extension arm of the master carrier.

4. Attach the cable guides to the top of the track with the clamps and hardware provided. Match the color coded arrows with the color stickers of the guides. <u>Do</u> <u>not</u> tighten down the nylon rollers on the cable guides. Guide spacing is marked at the factory. These marks should be followed as closely as possible. If, because of hanging clamp locations, the cable guides can not be located as indicated by the arrows, they may be moved slightly to either side of the indicated location. If they are moved, be sure to keep the spacing between cable guides the same as the arrows would indicate. Do not exceed this spacing. Additional cable guides are provided for this purpose, should you need them. The guide spacing in a curve should be symmetrical.

5. Install the single and master carriers at the open ends of the track at the center overlap, master carriers last. **Be sure to insert the master carrier so that the extension arm, with the cable connector, is on the same side of the track as the open side of the hanging clamps.**

6. Thread the operating cable over the wheel of the live-end pulley which is in line with the center of the track. Feed the cable between the cable guide rollers to the center overlap. At the center overlap, begin feeding the cable between two outboard cable guide rollers to the dead end pulley. Note that the master carrier has a two piece cable clamp which can be attached to the cable later. Do not cut the cable at the master carriers!

7. Feed the cable around the dead end pulley and back towards the center overlap between the center guides. At the overlap, feed the cable through the outboard guide rollers back to the live-end pulley of the track. Thread the cable over the remaining wheel of the live-end pulley and down to the floor. Coil a few feet of cable on the floor.

8. Raise the track up and secure it in place to the overhead structure. Be sure to use appropriate hardware for attaching the track system to the overhead structure. Refer to

ADC Form 745 for instructions on attaching the cable to a grooved drum machine.

9. Move the master carriers to the center overlap making sure that the carriers overlap equally. Disassemble the two piece cable clamps of the master carriers. Place the operating cable so that the recessed portion of the clamp is directly over the cable. Making certain that the cable is straight, or in line with the recess in the cable clamp, securely tighten the two screws which hold the outer or smaller part of the clamp to the arm of the master carrier. Do not tighten the setscrews on the master unless the master carrier is in its proper position.

10. Before operating the track, make certain that the cable is in its proper location between all of the cable guides and not under any of the parts which protrude from the track or on the wrong (non-open) side of the hanging clamps.

11. Carefully and slowly, operate the track system MANUALLY with the hand crank of the machine. If a master carrier should happen to strike a cable guide, loosen the hex nuts which clamp the brackets to the track and move this bracket until the master carrier clears it.

12. If the track operates properly, the Allen set screws on the master carriers can be fully tightened and the drum of the machine can be engaged.

DO NOT MACHINE UNTIL THE LIMIT SWITCHES HAVE BEEN SET.

IMPORTANT NOTES

- The span between track supports should never exceed 5 feet. Additional supports should be placed on the curves, splices and the stacking areas.
- When the operating cable is threaded through the track, make certain that the cable runs between the cable guides and that it does not run underneath or on the wrong side of the hanging clamps.
- Carrier spacing should never exceed 12 inches.
- Minimum curve radius for 5000 series track is 2 feet.
- All curved suspended tracks should be additionally supported by 1-1/4" ID stiffening pipe, or the equivalent.
- Make certain that the live-end and dead-end pulleys are attached to the overhead structure.
- On the curves, make absolutely certain that the cable guides are placed close enough to the hanging clamps so that they will prevent the cable from rubbing the bracket of the hanging clamps.

- When the installation has been completed and is in operation, the curtain should move back and forth without causing any noticeable track deflection.

- On tight reverse curved track systems, it may be desirable to link carriers together with chain or cable to facilitate curtain around curves.

- When linking carriers together, be sure to allow some fullness in the top of the curtain. If the curtain grommets are spaced 12 inches on center, then the carriers should be linked together on 10-inch centers. Be sure to take this into account when fabricating the curtain so that the curtain will properly cover the opening or screen.

IF THE INSTALLER SHOULD FAIL TO ABIDE BY THESE INSTRUCTIONS, SERIOUS PROBLEMS AND EQUIPMENT DAMAGE MAY OCCUR. THE FACTORY CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGES WHICH ARISE BECAUSE THE INSTRUCTIONS WERE NOT COMPLIED WITH IN EVERY DETAIL.

CORD ATTACHMENT TO GROOVED CABLE DRUM
ADC SILENT STEEL AND BESTEEL MODEL TRACKS

1. After the cable has been threaded through the pulleys, carriers and track, place the excess cable on the floor beneath the live-end pulley. Make sure to pull at least an extra 5 feet of cord all the way through. At this time the machine should be mounted beneath the live-end pulley. A plumb line may be used to ensure proper alignment between the machine and the live-end pulley.

Thumb Screw

Driving Dog

2. Disengage the drum from the drive shaft by loosening the thumb screw on the driving dog (see Photo 1). Thread the end of the cable through the hole in one end of the drum.

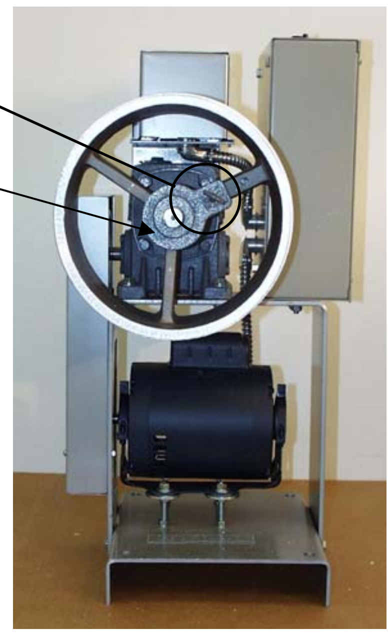


Photo 1

3. Fasten the end of cable to the inside of the drum with cord the cable connector provided. The cord clamps will be in a cloth bag, tied to the machine (see Photo 2).

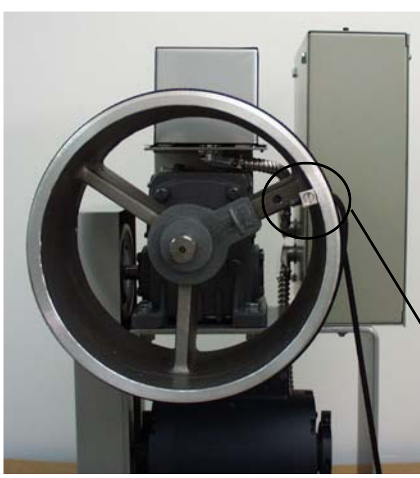


Photo 2

Cable Clamp (CF-1)

4. Following the grooves carefully, wrap the cable on the drum to within 4 grooves of the far end of the drum, or with an amount of cable equal to the amount of cable travel required plus 5 feet. Remove all slack in the system by pulling the other end of the cable. **Be careful not to make the cord too taut!** Damage to track components and curtain machine may occur if cable is too taut.

Note at least 4 empty grooves

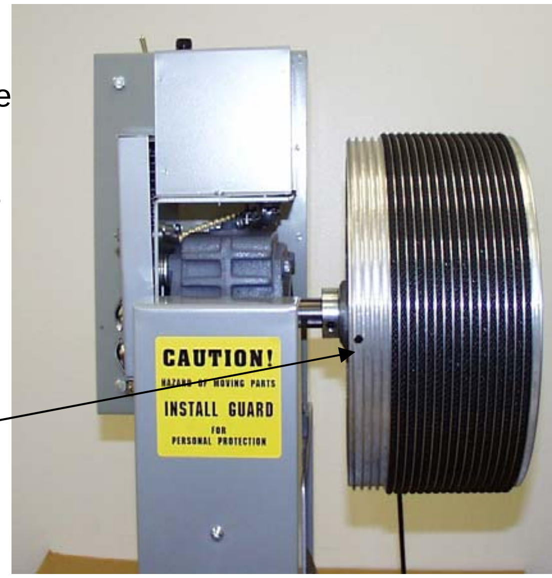


Photo 3

5. Leaving at least 1 empty groove, wind 3 wraps of the cord around the drum in the opposite direction of the first cable. Feed the end of the cable through the hole in the drum and secure it with a cord connector (see Photo 1). Cut off any excess cable. Your drum should now look the drum in Photo 4 below.

6. Turn the drum until the hole of the driving dog lines up with the hole in the drum spoke. Engage the drum by tightening the thumb screw. (See photo 1)

7. The machine is now ready for limit switch adjustment. DO NOT OPERATE THE MACHINE UNTIL THE LIMIT SWITCHES HAVE BEEN SET. Directions for limit switch adjustment are located in the machine manual that accompanied the machine.

Limit switch cover. Limit switches located under cover. DO NOT REMOVE COVER BEFORE READING MACHINE INSTALLATION MANUAL.

Cable properly loaded on drum.

At least 1 empty groove between cables.

Photo 4

IMPORTANT NOTES

- All wire-centered cable stretches during its first few weeks of use. It is strongly recommended that periodic checks be made, and excess slack be taken out, especially during the first few weeks of operation.

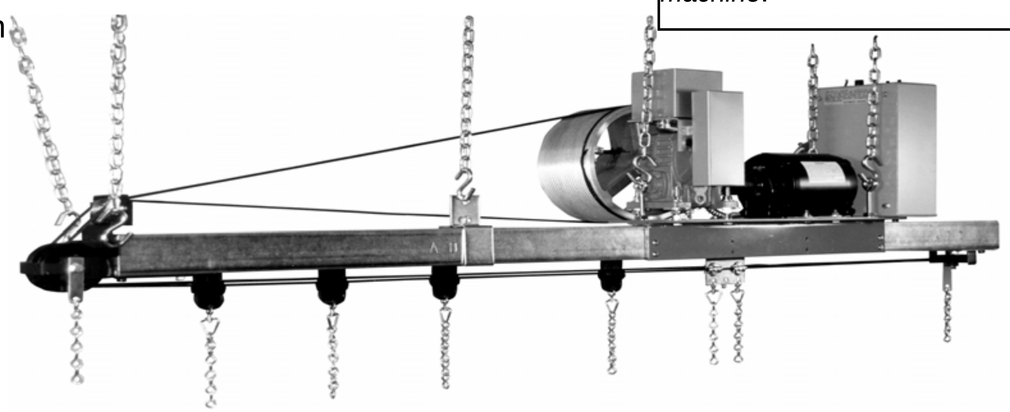
- Do not use cable that is larger than what will nest properly in the grooves of the cable drum (3/16” in most cases).

- In order to maintain a proper fleet angle, the machine's drum should never be less than 10 feet from the live-end pulley. A plumb line should be run from the center of the live-end pulley to the floor to ensure that the drum is vertically in line with the live-end pulley.

- Always use a covered wire center cable. Uncoated steel cable will damage the aluminum drum and the track components.

Note: machine MUST be supported by an overhead structure. The track DOES NOT support the machine.

"FLYING MACHINES"



When the machine is to be mounted on top of the track (“Flying” configuration), follow the previous instructions for threading the cable. Mount the machine to the top of the track with the angle bracket supplied with the machine. Steel track must be drilled and tapped to fasten the angle bracket. Eye bolts for securing the machine to the overhead structure are also furnished on the base. A special live-end pulley must be used to guide the cable up and over the top of the track to the machine. The machine must be mounted to the track at least 10 feet from the flying live-end pulley.

NOTE: THE MACHINE MUST BE SECURED TO AN OVERHEAD STRUCTURE FROM THE EYEBOLTS OF THE MACHINE BASE. THE TRACK ALONE CANNOT SUPPORT THE WEIGHT AND TORQUE OF THE MACHINE.

End of Instructions

INSTALLATION INSTRUCTIONS
RIG-I-FLEX MODEL 140,CURVIT-SURE MODEL 350,PATRIARC MODEL 500
EQUIPPED WITH CENTER TAKE-OFF LIVE-END PULLEY

1. Follow standard assembly drawings and installation instructions for the particular track to be installed. Tracks that utilize Center Take-Off Pulleys incorporate a dead end pulley in place of the live end pulley. Make the substitution of a dead end pulley for the live end pulley in the instructions. Assemble the track to the point in the instructions where it is ready for cord installation.

2. The CTO device can be located along the track only in areas where the return cord is in an open area. The CTO device can be attached to the track at any point between the dead-end pulley and the center overlap. Note that the device must not interfere with the placement of spindles or idler brackets.

3. The operating cord can be installed either before the track is raised to its final position, or after the track is in place. Starting at the CTO device thread the cord around one of the CTO's sheaves, through the track idler brackets (if used), around the sheave of one dead-end pulley, through one of the master carriers to the other side of the track. Continue through the idlers on the opposite side (if used), around the other dead-end, and back through the other master carrier. Continue past the center overlap, through the remaining idlers (if used), to the CTO. Thread the cord around the remaining sheave of the CTO device.

4. An additional mule block is usually used to mule the cords down a to a floor mounted curtain machine. The mule block can be ceiling, or wall mounted. Run cords from the CTO to the mule block, and then down to the curtain machine making sure that the lines remain in alignment. Connect cords to the curtain machine's grooved cable drum.

5. It is <u>very important</u> that the track be securely braced in every direction so that it does not sway during operation. The use of a CTO device will create a load perpendicular to the track as the system operates. Make sure to add supports to the system that allow for this additional loading. Any movement of the track will affect the cable tension.

6. Locate the master carrier(s) an equal distance from the ends of their track(s) and secure to the operating cable.

7. Test the track and machine operation prior to attaching curtain to the track system.

ADC FORM 711
(8/96)

INSTRUCTIONS FOR USING THE BT-2 BENDING TOOL

IMPORTANT NOTE: <u>DO NOT</u> BEND THE TRACK COMPLETELY AROUND THE BENDING TOOL SHOE. THE RADIUS OF THE SHOE IS 7" AND THE MINIMUM RADIUS FOR THE TRACK IS 24". THE TRACK MUST BE ADVANCED AS IT IS BENT ON THE TOOL.

(READ ALL OF THE FOLLOWING INSTRUCTIONS PRIOR TO CURVING THE TRACK)

1. A full scale chalk drawing of the curved portion of the track must be drawn on the floor, or work bench in order to check curving progress. The radius of this full scale drawing can be drawn using chalk attached to a wooden plank, or string, with a length equal to the radius of the required curve. Be sure to allow at least 1' of straight track at each end of the curve to assure alignment of the track.

2. Use a marker or wax pencil to mark the location of the center of the <u>curve</u> on the top flange of the track.

3. Place marks on the top of the track in both directions out from the center line mark in 3" increments, or a distance of 1.5 times the radius of the curve.

4. Secure the BT-2 tool to the floor, or work bench making sure that ample room exists to walk the track around the tool.

5. Slide the track into the bender and line up the FIRST mark of either end of the marked section with the apex of the tool's shoe.

6. Pull SLIGHTLY on the longest section of track coming out of the shoe. This should put a SLIGHT bend in the track, usually around 5 degrees.

7. Move the track forward or backward in the bender and align the second mark on the track with the apex of the tool's shoe. Pull SLIGHTLY on the longest section of track coming out of the shoe

8. Continue this process, repeating steps 6 and 7 until a slight bend exists at each mark unless the track is beginning to curve more that the drawn template. If this occurs the individual bends are too severe for the overall bend required and must be straightened.
9. Check the track radius against the chalk drawing by laying it on top of the chalk line.

10. In most cases the formed radius will be too large, which is desirable. Repeat steps 5 through 9 until the required curve is formed.

11. If the radius becomes too tight during this process you can remove some of the curve. ***<u>The key to bending the track correctly is to bend in small multiple steps,</u>*** checking the radius against the chalk line while you do it, avoiding curving the track too tightly.