

BL = Black Finish

2XX Series Track Systems have a black finish.

		170 BESTEEL® CWANA code							
		Parts Included	CORD OPERATED/MOTORIZED				WALK-ALONG		
			170 (270)	171 (271)	171-R (271-R)	260	172 (272)	173 (273)	173-N (273-N)
Single Carriers	1701	✓			✓	✓	✓		
	1737		✓						
	1749			✓					
	1737W							✓	
	1749W								✓
Master Carriers	1702	✓				✓	✓		
	1738		✓					✓	
	1750			✓					✓
	2602				✓				
Pulleys	1703	✓	✓	✓	✓				
	1704	✓	✓	✓	✓				
	2803					✓			
	2804					✓			
	2865	✓	✓	✓	✓	✓			
Cord	1728	✓	✓	✓	✓				
	1730					✓			
Back Pack® Guides	1734	✓*	✓*	✓*	✓*	✓*			
	1733	✓*	✓*	✓*					
	1735					✓*			

* Back Packs are optional.



SPECIFICATIONS:

BESTEEL® Model 170 (270) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1701(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such 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 1703(BL)**) and Dead-End (**Model 1704(BL)**) pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops (**Model 1709(BL)**) for placement at each track end and a tension Floor Pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 170(270) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 171-N (271-N) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1737(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such 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 1703(BL)**) and Dead-End (**Model 1704(BL)**) pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops (**Model 1709(BL)**) for placement at each track end and a tension Floor Pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 171-N(271-N) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 171-R (271-R) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1749(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two neoprene-tired ball-bearing wheels held to the steel block by a rust-proof nickel

plated rivet, such 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 1703(BL)**) and Dead-End (**Model 1704(BL)**) pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops (**Model 1709(BL)**) for placement at each track end and a tension floor pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 171-R (271-R) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 172 (272) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1701(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such 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 2803(BL)**) and Dead-End (**Model 2804(BL)**) pulleys shall be adjustable and shall be equipped with 3" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two End Stops (**Model 1709(BL)**) for placement at each track end and a tension Floor Pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1730), for hand operated track systems, shall have synthetic center and shall be of 5/16" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 172(272) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 173 (273) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1701(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops (**Model 1709(BL)**) for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173(273) as manufactured by Automatic Devices Company of Allentown, PA.

SPECIFICATIONS:

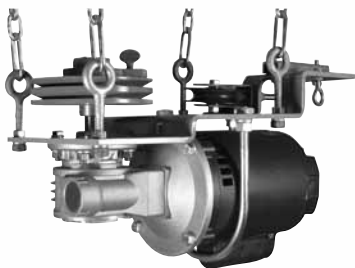
BESTEEL® Model 173-N (273-N) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1737W(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops (**Model 1709(BL)**) for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-N(273-N) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 173-R (273-R) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1749W(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two neoprene-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops (**Model 1709(BL)**) for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-R(273-R) as manufactured by Automatic Devices Company of Allentown, PA.

Consider an "In-Line" Type Machine.



Specifically designed for projects requiring the curtain machine to be located off of the finished floor. This model machine is designed to attach to, and align with, the curtain track and be supported by an overhead structure via eyebolts mounted to the machine's base. The machine also eliminates the vertical operating cables that normally run from a floor mounted machine to the track live-end pulley. The control box for this model machine is provided separately and can be located up to 6' away from the machine. Control is stop/start/reverse from any point of travel.

BESTEEL® Model 260 (360) Curtain Tracks

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1701(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Master carriers (**Model 2602**) shall include 8-1/2" steel overlapping arms to provide a 17" curtain overlap on a single section track system. Live-End (**Model 1703(BL)**) and Dead-End (**Model 1704(BL)**) pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two end stops (**Model 1709(BL)**) for placement at each track end and a tension Floor Pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 260(360) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 270P Curtain Tracks

Curtain tracks Model 1700BL shall be of 14 gauge galvanized steel construction entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (Model 1701P) shall be spaced on 12" centers and shall be of nylon construction with two polyethylene wheels held to block by a steel ball-bearing molded into the block and by a rust-proof nickel plated rivet. Each curtain carrier shall include a free-moving plated swivel and trim chain to accommodate curtain S-hook. Live-End (Model 2803BL) and Dead-End (Model 2804BL) pulleys shall be adjustable and shall be equipped with oil-impregnated sleeve bearing nylon wheels adequately guarded. The manufacturer shall furnish two End Stops (Model 1709BL) for placement at each track end and a tension Floor Pulley (Model 2865BL) for increasing cord tension. Stretch-resistant #12 operating cord (Model 2828), for hand operated track systems, shall have synthetic center, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 270P as manufactured by Automatic Devices Company of Allentown, PA.



THREAD

1 - 1 lb

Designed to allow suspension of our various track models from tensile rated threaded rod. The bracket is fabricated from hardened steel and has centered hole designed to accept 1/2" threaded rod. Track hanging clamps not included. Dimensions: 3-7/8"H x 1-1/2"W x 3-1/4"L



No. 1783-Wall Mounting Bracket for Model 1700 Track

1 - 3 lbs. 12 oz.

Used to mount 2 Model 1700 tracks (bi-part operation) to side walls. Projection of track closest to the wall is 12" (to center of track). Painted steel angle with 3 mounting holes on vertical leg. 14" long x 14" high x 1-1/2" deep

Model 1703S available for single track applications.



No. 1721-Pocket Mounting Bracket for Model 1700 Track

1 - 8 oz.

Steel offset bracket for mounting Model 1700 track to side of ceiling pocket. Projects track approximately 4" from side of pocket. Must be used with Model 1708 Hanging Clamp (not included). Plated steel construction. 4-3/16"L x 1-1/4"W



No. 1722-Pocket Mounting Bracket for Model 1700 Track

1 - 8 oz.

Steel offset bracket for mounting Model 1700 track to side of ceiling pocket. Projects track approximately 2" from side of pocket. Must be used with Model 1708 Hanging Clamp (not included). Plated steel construction. 4-3/16"L x 1-1/4"W

NOTE: If using pocket mounting brackets with bi-parting track system, both 2821 & 2822 pocket brackets must be used.

NOTE: These brackets are not designed for wall mounted track systems. They do not project enough to allow the curtain to stack without rubbing against the wall.



No. 1713 [BL] Pipe Clamp

1 pr. - 5.5 oz.

For 1" I.D. Schedule 40 pipe



No. 1714 [BL] Pipe Clamp

1 pr. - 7 oz.

For 1-1/4" I.D. Schedule 40 pipe



No. 1715 [BL] Pipe Clamp

1 pr. - 7 oz.

For 1-1/2" I.D. Schedule 40 pipe



BESTEEL® 170 SERIES CURTAIN TRACKS



No. 1703-AS Center-Take-Off Pulley

Suspended Mount

1 – 3 lbs. 5 oz.

Center-Take-Off Pulley for suspended track systems. Designed to route the operating lines perpendicular to the track. Must add 1 each 1704 Dead End pulley if used. 1703-AS must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to floor pulley or machine. Approximately: 4-1/2" long x 4-7/8" wide x 3-13/16" high.



No. 1724 (BL) Splicing Clamp

1 pr. - 4 lbs. 3 oz.

Two piece 11 gauge steel clamp for joining track sections assuring proper alignment of channels.

Approximately: 12" long x 2" wide x 3-3/4" high.

NOTE: For suspended tracks only.



No. 1708 (BL) Hanging Clamp

1 pr. - 6.5 oz.

Recommended spacing: 6'. Steel, chain or cable suggested for track suspension. Adjustable to any location.



No. 2624 (BL) Splicing Clamp

1 pr. - 2 lbs.

Two piece 11 gauge steel clamp for joining track sections on ceiling-mounted installations assuring proper alignment of channels.

Approximately: 12" long x 2" wide x 2-1/4" high.

NOTE: For ceiling mounted systems only.



No. 1709 (BL) End Stop

1 - 4.5 oz.

Prevents carriers from moving beyond selected position in track.

Cannot be used with Rotodrapers®. Proper hardware supplied with Rotodrapers®.



No. 1707 (BL) Lap Clamp

1 - 9.5 oz.

For securing bi-parting tracks at center overlap. For suspended tracks only. Sold individually.



No. CPS-2 Center Pipe Support

1 pr - 5.5 oz.

To facilitate the clamping of steel track channel to pipe batten, a Center Pipe Support is available. The Center Pipe Support is placed at the overlap, and the two lap clamps are used in the normal manner.

Lap & pipe clamps sold separately.



No. 2865 (BL) Tension Floor Pulley

1 - 1 lb. 12 oz.

Plated steel construction equipped with 1 oil-impregnated sleeve-bearing nylon wheel. Tension spring provides cord tension. Can be either wall or floor mounted. Spring-loaded latch maintains wheel in uppermost position during installation. Approximately: 1-1/2" long x 3-1/2" wide x 13" high.



No. 2805 (BL) Adjustable Floor Pulley

1 - 4 lbs. 5 oz.

Powder Coated steel side plates equipped with 1 oil-impregnated sleeve-bearing wheel. Locks in place via threaded axle. Adjustment – 9".

Approximately: 3-1/4" long x 5" wide x 13" high.



No. 2602 Master Carrier

1 - 12 oz.

Plated steel body equipped with 4 solid Kralastic wheels and 2 cord/cable connectors (Model C098). Extension arm provides 17" overlap (8-1/2" in front of 8-1/2").

Carrier width: Approximately 13".

Used with Model 260.



No. 1702B-12" Master Carrier with Manual Brake

1 - 1 lb. 8 oz.

One foot in length and features nylon tired, ball-bearing wheels. The spring-loaded brake is released by pulling down on an operating line when positioning the carrier. For walk-draw applications only. Also available in 4' version (Model 1702B4)



No. 1703 (BL) Live End Pulley

1 - 1lb. 4 oz.

Equipped with 2 oil-impregnated sleeve-bearing steel wheels. Steel block, under-hanging type, anchorable to any position under track without drilling.

Pulley width: Approximately 3".



No. 1704 (BL) Dead End Pulley

1 - 9.5 oz.

Equipped with 1 oil-impregnated sleeve-bearing steel wheel. Steel block, anchorable to any position under track without drilling. Pulley width: Approximately 3".



No. 2803 (BL) Live End Pulley

1 - 2 lbs. 5 oz.

No. 2803 Live End Pulley can be used to help ease the operation of a 170 series track system. Standard with Model 172.

Pulley width: Approximately 4".



No. 2804 (BL) Dead End Pulley

1 - 1 lb. 8 oz.

Can be used to help ease the operation of a 170 series track system. Standard with Model 172.

Pulley width: Approximately 4".



No. 1703-AC Center-Take-Off Pulley Ceiling Mount

1 - 1 lb. 10 oz.

Center-Take-Off Pulley for ceiling mounted track systems. Designed to route the operating lines perpendicular to the track. Must add 1 each 1704 Dead-End pulley if used. 1703-AC must be located a minimum of 4' from the end of the track. Additional pulleys may be required to mule operating lines to floor pulley or machine. Approximately: 6" long x 3" wide x 3" high.



1703H Horizontal Live End Pulley

1 - 2 lbs

Used in place of the standard Model 1703 Live End Pulley. The pulley routes the operating lines horizontally and at a 90 degree angle relative to the track. A mule sheave (Model MB-2) can be used at the back wall to route the cables to a floor mounted machine or tension pulley.

Dimensions: 7-1/2"L x 6-3/4"W



No. 1703-F Flying Live End Pulley

1 - 2 lbs. 7 oz.

Used with flying type curtain machines. Pulley is designed to route the cable 180 degrees back over the top of the track, to the track-mounted machine. Extends beyond track approximately 2".



BESTEEL® 170 SERIES CURTAIN TRACKS

170



No. 1738 [BL] Nylon Ball-Bearing Master Carrier

1 - 5 oz.

Plated steel body equipped with 4 nylon-tired ball-bearing wheels. Plated swivel for free, effortless curtain movement. Supplied with 2 cord/cable connectors (Model C098).

Carrier width: Approximately 3".

Used with Model 171-N.



No. 1749 [BL] Neoprene Ball-Bearing Single Carrier

1 - 2 oz.

Plated steel body equipped with 2 neoprene-tired ball-bearing wheels which help provide a quieter operation.

No. 1726 Rubber Spacer (included) must be inserted between carriers. Used with Model 171-R.



No. 1750 [BL] Neoprene Ball-Bearing Master Carrier

1 - 6 oz.

Plated steel body equipped with 4 neoprene-tired ball-bearing wheels. Also equipped with 2 cord/cable connectors (Model C098).

Used with Model 171-R.



No. 1701-P Single Carrier

1 - 3-1/4 oz.

Carrier spacing: 12". Block constructed of nylon material supported from ball-bearing with 2 heavy duty polyethylene wheels. Larger diameter wheels provide easier operation for non-overlapping tracks. Plated swivel for free, effortless curtain movement. Trim chain supplied for curtain trimming.

Approximately 9-1/4" high.



No. 1702-P Single Carrier

1 - 9 oz.

Block constructed of plated steel supported from 2 ball-bearings with 4 heavy duty polyethylene wheels and 2 cable clips which clamp cord to carrier. Larger diameter wheels provide easier operation for non-overlapping tracks.

Approximately 9-1/4" high.



No. 1740 Masking Master Carrier

1 - 1 lb.

For side-masking tracks. Steel plate is attached to top of masking frame. Constructed of painted steel equipped with 4 neoprene-tired ball-bearing wheels and 2 cord/cable connectors (Model C098).

Carrier width: Approximately 4".



No. 1751-N Door Carrier

1 - 20 oz.

Constructed of 4 nylon-tired ball-bearing wheels mounted to plated steel body. Adjustable design permits leveling of door height without removing door from carrier. Rated for 70 pound load on properly supported track.

1 - 4" long x 1-1/4" wide x 5-1/2" high (to base of plate)

Model 1751 equipped with steel ball-bearing wheels.



No. 1751A Basic Scenery Carrier

1-14.5 oz.

Rated for 150 pound load on properly supported track.

Approximately 4-1/2" long x 3-1/2" high 3/8" thread



No. 1700 Channel [1700BL]

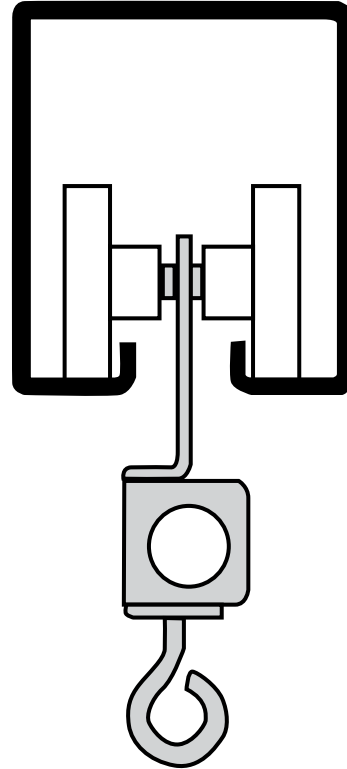
1' - 1 lb. 11 oz.

No. 1700-A [BL] Channel

1' - 9 oz.

14 gauge galvanized steel. (1700BL powder coated black finish) No. 1700-ABL supplied in 12 gauge aluminum black finish. Obtainable in unspliced lengths up to 26' (1700-A, 24' max unspliced length). Holes can be drilled for direct ceiling attachment.

Approximately: 1-3/4" wide x 2" high.



Full Size End View



No. 1701 [BL] Single Carrier

1 - 1 oz.

Carrier spacing: 12". Block constructed of plated steel with 2 polyethylene wheels. Plated swivel for free, effortless curtain movement.

Carrier width: Approximately 1-3/16".



No. 1702 [BL] Master Carrier

1 - 3 oz.

Block constructed of plated steel with 4 polyethylene wheels. Plated swivel for free, effortless curtain movement. Supplied with 2 cord/cable connectors. (Model C098)

Carrier width: Approximately 3".



No. 1737 [BL] Nylon Ball-Bearing Single Carrier

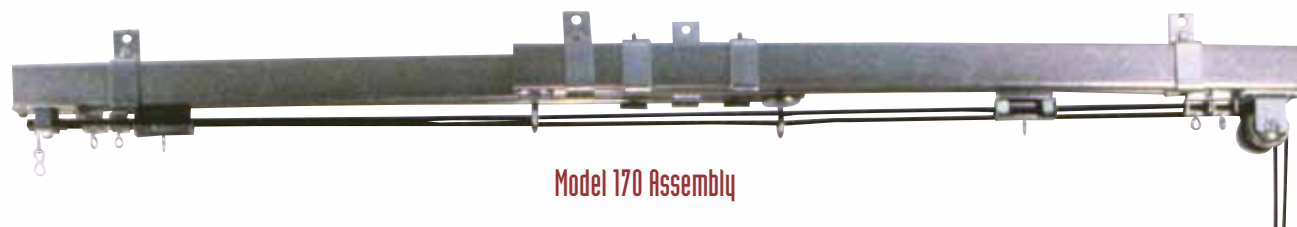
1 - 2 oz.

Plated steel body equipped with 2 nylon-tired ball-bearing wheels which help provide easier operation and service life. Used with Model 171-N.



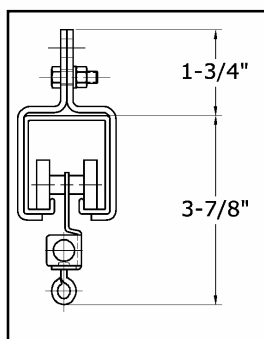
BESTEEL® 170 SERIES CURTAIN TRACKS

170

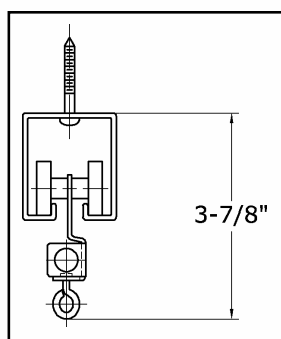


Model 170 Assembly

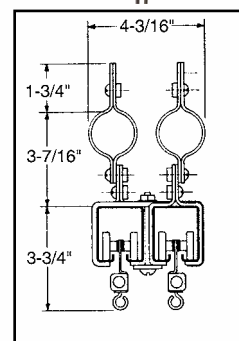
Cross Section of 170 Suspended



Cross Section of 170 Ceiling Mount



Cross Section of 170 Track at Center Overlap Pipe Mounted
Min. pocket width: 5 in.



Shown with optional pipe clamps.

BESTEEL® MODEL 170 [270]

BESTEEL is the most famous name in medium-duty stage tracks. The Model 170(270) is used on the majority of stage installations with medium or light weight curtains with lengths up to about 40'. On slightly heavier installations Models 171-N (271-N) or 171-R(271-R) can be used.

BESTEEL Model 260(360) is identical to Model 170 except special master carriers with extension arms are used to overlap the curtain for a single track system.

BESTEEL Model 173, which is for "walk-along" cyclorama and gym divider curtains can be outfitted with pre-manufactured curved sections.

MODEL 171-N [271-N]

Model 171-N(271-N) employs No. 1737(BL) Nylon Ball-Bearing Single Carriers and No. 1738(BL) Nylon Ball-Bearing Master Carriers which provide an easier operation are used in place of the standard No. 1701(BL) and No. 1702(BL).

MODEL 171-R [271-R]

Model 171-R(271-R) employs No. 1749(BL) Neoprene Ball-Bearing Single Carriers and No. 1750(BL) Neoprene Ball-Bearing Master Carriers which provide a quieter operation (and No. 1726 Rubber Spacers) in place of the standard No. 1701(BL) and No. 1702(BL).

MODEL 172 [272]

Model 172(272) utilizes larger end pulleys No. 2803(BL) Live End, No. 2804(BL) Dead End which provide an easier operation. No. 1702-A(BL) Master Carriers are used in order to accommodate the heavier No. 1730 operating cord.

MODEL 173 [273] [Walk-Along Track System]

Model 173(273) is for stage cyclorama and gym divider installations where it is necessary that the operator walk the curtain to its opened and closed positions. Curves are obtainable in 90°, 75°, 60° and 45° bends curved to a 24" radius. Two pairs of No. 1724(BL) or 2624(BL) splicing clamps are furnished with each curve. The track can be supplied either as a single-sectioned or overlapping unit. No cord or pulleys are supplied with "walk-along" tracks

Model 173-N [273-N] [Walk-Along Track System]

Model 173-N(273-N) provides greater strength and durability by utilizing the No. 1737(BL) Nylon Ball-Bearing Single Carriers and No. 1738(BL) Nylon Ball-Bearing Master Carriers.

Model 173-R [273-R] [Walk-Along Track System]

Model 173-R(273-R) is both quiet and durable. It features No. 1749(BL) Neoprene Ball-Bearing Single Carriers and No. 1750(BL) Neoprene Ball-Bearing Master Carriers.

BESTEEL® MODEL 260 [360]

Model 260(360) is identical to Model 170 except that it operates as a single-sectioned bi-part unit (vs. double-sectioned). No. 2602 Master Carriers (self-lapping) are used instead of No. 1702.

MODEL 270P

Model 270P employs 1701P & 1702P carriers which have larger diameter wheels and steel ball-bearings. The use of these carriers in addition to the 2803BL and 2804BL Live and Dead-End pulleys, which have larger diameter sheaves than the standard units, helps provide an easier hand operation on larger systems. This track system is only available with a black finish.

Cord operated 170 and 260 series tracks cannot be curved.

SPECIFICATIONS:

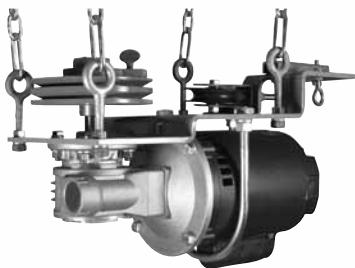
BESTEEL® Model 173-N (273-N) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1737W(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two nylon-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops (**Model 1709(BL)**) for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-N(273-N) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 173-R (273-R) Curtain Tracks (Walk-Along Track System)

Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1749W(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two neoprene-tired ball-bearing wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. The manufacturer shall furnish four End Stops (**Model 1709(BL)**) for placement at each track end. This model track system is for walk-along operation only and does not include pulleys or other operating hardware. Model 173-R(273-R) as manufactured by Automatic Devices Company of Allentown, PA.

Consider an "In-Line" Type Machine.



Specifically designed for projects requiring the curtain machine to be located off of the finished floor. This model machine is designed to attach to, and align with, the curtain track and be supported by an overhead structure via eyebolts mounted to the machine's base. The machine also eliminates the vertical operating cables that normally run from a floor mounted machine to the track live-end pulley. The control box for this model machine is provided separately and can be located up to 6' away from the machine. Control is stop/start/reverse from any point of travel.

BESTEEL® Model 260 (360) Curtain Tracks

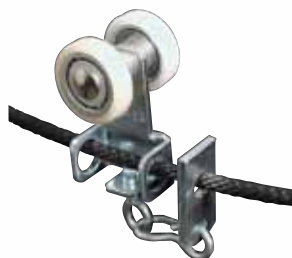
Curtain tracks Model 1700(1700BL) shall be of 14 gauge galvanized steel construction (1700A - 12 gauge aluminum) entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (**Model 1701(BL)**) shall be spaced on 12" centers and shall be of plated steel construction with two polyethylene wheels held to the steel block by a rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. Master carriers (**Model 2602**) shall include 8-1/2" steel overlapping arms to provide a 17" curtain overlap on a single section track system. Live-End (**Model 1703(BL)**) and Dead-End (**Model 1704(BL)**) pulleys shall be adjustable and shall be equipped with 1-13/16" diameter sleeve-bearing wheels adequately guarded. The manufacturer shall furnish two end stops (**Model 1709(BL)**) for placement at each track end and a tension Floor Pulley (**Model 2865(BL)**) for increasing cord tension. Stretch-resistant operating cord (Model 1728), for hand operated track systems, shall have synthetic center and shall be of 1/4" diameter, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 260(360) as manufactured by Automatic Devices Company of Allentown, PA.

BESTEEL® Model 270P Curtain Tracks

Curtain tracks Model 1700BL shall be of 14 gauge galvanized steel construction entirely enclosed except for slot in bottom, each half to be in one continuous piece except where splicing clamps are required. Each curtain carrier (Model 1701P) shall be spaced on 12" centers and shall be of nylon construction with two polyethylene wheels held to block by a steel ball-bearing molded into the block and by a rust-proof nickel plated rivet. Each curtain carrier shall include a free-moving plated swivel and trim chain to accommodate curtain S-hook. Live-End (Model 2803BL) and Dead-End (Model 2804BL) pulleys shall be adjustable and shall be equipped with oil-impregnated sleeve bearing nylon wheels adequately guarded. The manufacturer shall furnish two End Stops (Model 1709BL) for placement at each track end and a tension Floor Pulley (Model 2865BL) for increasing cord tension. Stretch-resistant #12 operating cord (Model 2828), for hand operated track systems, shall have synthetic center, extra quality yarn. Machine operated tracks shall use 3/16" diameter wire center cable (Model 3529). Model 270P as manufactured by Automatic Devices Company of Allentown, PA.



BESTEEL® 170 SERIES CURTAIN TRACKS

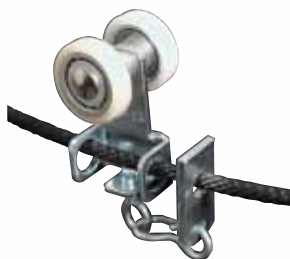


No. 1733 [BL] Back Pack Guide® (Optional)

4 - 1 oz.

Provides sliding door effect. Prevents curtain from accumulating until track ends are reached.

Thickness: 1/8".

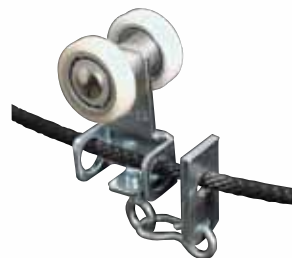


No. 1734 [BL] Back Pack Guide® (Optional)

1 - 5 oz.

Provides sliding door effect (for machine operated tracks). Prevents curtain from accumulating until track ends are reached. Has smaller hole than 1733.

Thickness: 1/8".



No. 1735 [BL] Back Pack Guide® (Optional)

1 - 5 oz.

Used with Model 172 tracks. Has larger hole for 1730 cord.

Thickness: 1/8".



No. 1748 Space Saver

5 - 1 oz.

For reducing curtain stacking area. Used in place of carrier. Recommended spacing: no more than 1 between two carriers at end pulley area only. Total quantity used should not exceed 10% of curtain width. Thickness: 1/8".



No. 1726 Rubber Spacer

(See No. 1749 Single Carrier)



No. 1728 Cord

100' - 2 lbs. 4 oz.

Synthetic center and stretch-resistant. For manually-operated tracks.

1/4" (No. 8)

No. 1730 Sash Cord

100' - 4 lbs.

Used with Model 172 tracks.

Synthetic center with woven cover.

5/16" (No. 10)

No. 3529 Cable

100' - 2 lbs. 7 oz.

Wire center with woven polyester cover.

Used with drum-drive machines.

3/16" (No. 6)



No. 1752 [BL] Curve (90°, 24" radius)

1 - 8 lbs. 8 oz., 62" long

(Approximately 3' x 3').



No. 1753 Curve (75°, 24" radius)

1 - 7 lbs. 6 oz., 57" long.

(Approximately 2'8" x 2'8").



No. 1754 Curve (60°, 24" radius)

1 - 6 lbs. 6 oz., 51" long

(Approximately 2'3" x 2'3").



No. 1755 [BL] Curve (45°, 24" radius)

1 - 5 lbs. 14 oz., 44" long

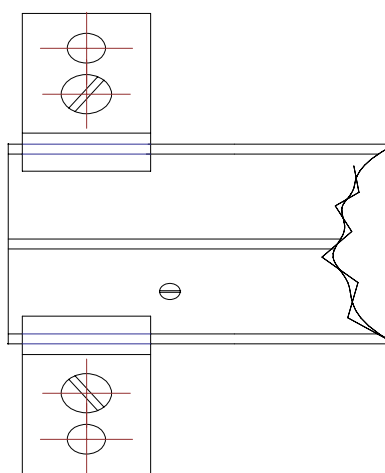
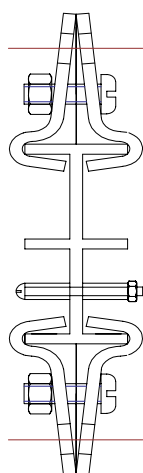
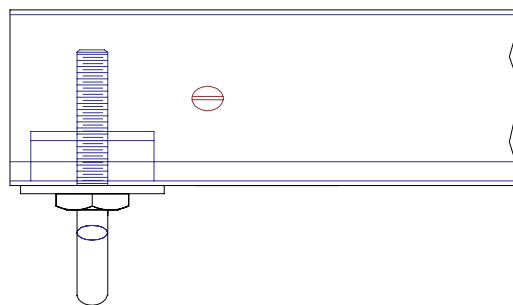
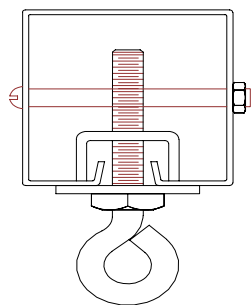
(Approximately 2' x 2').

CUSTOM CURVES ARE NOT AVAILABLE.

CURVES USED WITH WALK-ALONG TRACK SYSTEMS ONLY.

Two No. 1724 or 2624 (must be specified when ordering) Splicing Clamps are included with each curve.

INSTALLATION INSTRUCTIONS FOR ALL ROTODRAPERS EXCEPT MODEL 06 AND 06A



Two 1/4" diameter bolts are supplied with all Rotodrapers (except Models 06 & 06A) and are to be installed 2" from the ends of the track as illustrated above. To install the bolts, drill a 1/4" clearance hole in front of each end stop. Insert the bolts with spacing tubes (if included) as shown above. These bolts are used to add additional protection against the possibility of the Rotodraper coming out of the track.

Install bolt after Rotodrapers are installed in tracks.

INSTALLATION INSTRUCTIONS FOR HAND OPERATED BESTEEL MODELS: 170, 171-R, 171-N, 172, 260

I. SUSPENDED INSTALLATIONS

NOTE: MODEL 260 FENSTEEL TRACK IS ASSEMBLED IN THE SAME MANNER AS DESCRIBED BELOW WITH THE EXCEPTION THAT THIS MODEL DOES NOT USE A TRACK OVERLAP. THE OVERLAP IS PROVIDED BY MASTER CARRIERS WITH EXTENSION ARMS (2602).

1. Lay the two track halves on the floor with the track slot facing down and with the desired amount of center overlap. If splicing is required, it should be done at this time. Splicing instructions can be found below. Attach the two lap clamps to the tracks at the overlap.
2. Install the live-end and dead-end pulleys at the end of the tracks and secure them to the track with the hardware supplied.
3. Insert an equal amount of single carriers into each track half. The carriers can be inserted at the open track ends located at the center overlap. The master carriers are the last to be inserted. Install the eye-bolt end stops in the open track ends at the center overlap and secure.
4. Place the hanging clamps at their desired locations along the track sections and secure to the track with the hardware provided.
5. Raise the track to its permanent location, position the track and secure in place.
6. Mount the floor pulley to the floor directly under and aligned with the track live-end pulley.

Model 171-R is supplied with rubber spacers that are positioned between the single carriers on the operating cord. These spacers must be threaded on the operating cord between the single carriers of the track sections.

7. Thread the operating cord through one sheave of the live-end pulley, through the bodies of the single carriers, the body of the master carrier and the two cord connectors which must be located inside the cavity of the master carrier body. Continue threading the cord through the eye-bolt of the end stop located at the center overlap, around the dead-end pulley, through the single carrier bodies of the second half of the track system and through one (1) half of the second master carrier, secure this end at the master carrier temporarily with a cord connector. Thread the

remaining end of the operating cord through the floor pulley, up and through the remaining sheave of the live-end pulley, through the eye bolt end stop of the second half of the track system and through the second master carrier. Loosely secure this end of the operating cord to the master carrier with a cord connector.

8. Move the master carriers an equal distance from the end of each track section. Remove the slack from the operating cord at the master carrier with the cut ends of cord and secure the cord at both masters with the cord connectors. Cut off excess cord.

IMPORTANT NOTES

- NEVER USE LESS THAN FIVE SUSPENSION POINTS TO SUPPORT THE TRACK SYSTEM. THE TRACK SHOULD ALWAYS BE SUPPORTED AT IT'S ENDS.
- SUPPORT THE LIVE-END PULLEY TO THE OVERHEAD STRUCTURE USING THE HOLE PROVIDED ON THE PULLEY.
- ONE-WAY OPERATING CURTAINS ARE INSTALLED IN THE SAME MANNER AS LISTED ABOVE WITH THE EXCEPTIONS THAT ONLY ONE MASTER CARRIER IS USED, THERE IS NO CENTER OVERLAP, AND ALL OF THE SINGLE CARRIERS ARE INSTALLED BEHIND THE SINGLE MASTER CARRIER.

II. CEILING MOUNTED INSTALLATIONS

<p>NOTE: MODEL 260 FENSTEEL TRACK IS ASSEMBLED IN THE SAME MANNER AS THE ABOVE REFERENCED MODELS WITH THE EXCEPTION THAT THIS MODEL DOES NOT USE A TRACK OVERLAP. THE OVERLAP IS PROVIDED BY MASTER CARRIERS WITH EXTENSION ARMS (2602).</p>

1. Hanging clamps and lap clamps are not needed or provided for ceiling mounted track systems. The top of the track channel should be drilled every 18" for direct attachment to the ceiling structure.

Because ceiling mounted tracks do not provide an opportunity for vertical adjustment, it is very important that the ceiling structure be level. Any deviation can cause the space between the bottom of the curtain and the floor surface to be uneven. Shims, or blocking may be required for this purpose.

2. Install the live-end and dead-end pulleys at the end of the tracks and secure.
3. Insert an equal amount of single carriers into each track half. The carriers can be

inserted at the open track ends. The master carriers are the last to be inserted. Install the eye-bolt end stops in the open track ends and secure with the hardware provided.

4. Raise the track to its permanent location, position the track and secure in place.
5. Mount the floor pulley to the floor directly under and aligned with the track live-end pulley

Model 171-R is supplied with rubber spacers that are positioned between the single carriers on the operating cord. These spacers must be threaded on the operating cord as the single carriers are installed in the track sections.

6. Thread the operating cord through one sheave of the live-end pulley, through the bodies of the single carriers, the body of the master carrier and two cord connectors which must be located inside the cavity of the master carrier body. Continue threading the cord through the eye-bolt of the end stop located at the center overlap, around the dead-end pulley, and through the single carriers of the second half of the track system and through one (1) half of the second master carrier, secure this end at the master carrier temporarily with a cord connector. Thread the remaining end of the operating cord through the floor pulley, up and through the remaining sheave of the live-end pulley, through the eye bolt end stop of the second half of the track system and through the second half of the second master carrier. Loosely secure this end of the operating cord to the master carrier with a cord connector.
6. Move the master carriers an equal distance from an end of each track section. Remove the slack from the operating cord at the master carrier with the cut ends of cord and secure the cord at both masters with the cord connectors provided. Cut off the excess cord

IMPORTANT NOTE

- ONE-WAY OPERATING CURTAINS ARE INSTALLED IN THE SAME MANNER AS LISTED ABOVE WITH THE EXCEPTIONS THAT ONLY ONE MASTER CARRIER IS USED, THERE IS NO CENTER OVERLAP AND ALL OF THE SINGLE CARRIERS ARE INSTALLED BEHIND THE SINGLE MASTER CARRIER.

IMPORTANT SPLICING INFORMATION

I. SUSPENDED TRACK: Place splice clamps onto track and align holes in track with those in splicing clamps. Tighten clamps in place by means of the three 1/4" x 3/4" stove bolts. Align track by tightening the four 5/16" case hardened cap screws against the top of both track sections. Place twelve 5/16" x 1/4" 20 stove bolts through the sides of the splice clamps and tighten into position. Refer to drawing P-1724 for further assistance.

II. CEILING MOUNTED TRACK: Place splicing clamps on track and align holes in splicing clamps with factory drilled and tapped holes of the track channel. Insert twelve 1/4-20 by 5/16" long stove bolts through the holes in the side of the splice clamps and tighten securely into the tapped holes in the track channels. Refer to ADC drawing number 2624 for additional information.

INSTALLATION INSTRUCTIONS FOR MOTORIZED BESTEEL MODELS: 170, 171-R, 171-N, 172, 260

1. SUSPENDED INSTALLATIONS

NOTE: MODEL 260 FENSTEEL TRACK IS ASSEMBLED IN THE SAME MANNER AS DESCRIBED BELOW WITH THE EXCEPTION THAT THEI MODEL DOES NOT USE A TRACK OVERLAP. THE OVERLAP IS PROVIDED BY MASTER CARRIERS EQUIPPED WITH EXTENSION ARMS.

1. Lay the two track halves on the floor with the track slot facing down and with the amount of desired center overlap. If splicing is required, it should be done at this time. See splicing instructions below. Attach the two lap clamps to the tracks at the overlap with the hardware provided.
2. Install the live-end and dead-end pulleys at the end of the tracks and secure with the hardware supplied.
3. Insert and equal amount of single carriers into each track section. The carriers can be inserted at the open track ends located at the center overlap. The master carriers are the last to be inserted. Install the eye-bolt end stops in the open track ends at the center overlap and secure with the hardware provided.
4. Place the hanging clamps at their desired locations along the track sections. Raise the track to its permanent position and secure in place. Mount the floor pulley to the floor directly under and in line with the live-end pulley.

Model 171-R is supplied with rubber spacers that ride on the operating cord between each carrier. Be sure to incorporate them when cording the track.

5. Thread one end of the wire-center cable through one wheel of the live-end pulley, through the body of the single carriers, through the first master carrier and its cord connectors making sure to locate the cord connectors on inside the cavity of the master carrier body. Continue threading the cable through the eye-bolt of the end stop and around the dead-end pulley, through the body of the single carriers located in the other half of track, through the second master carrier and its cord connectors. Be sure to locate the cord connector in the cavity of the master carrier body. Thread the cable through the second end stop, the remaining wheel of the live-end pulley and down to the curtain machine.
6. You should have two coils of cable, of approximately the same length emanating from

the live end pulley of the track. At this point refer to ADC form # **745-A** for instructions on cord attachment to the grooved cable drum.

IMPORTANT NOTES

- NEVER USE LESS THAN FIVE SUSPENSION POINTS. ALWAYS PROVIDE A SUPPORT AT THE TRACK ENDS.
- SUPPORT THE LIVE-END PULLEY TO AN OVERHEAD STRUCTURE USING THE HOLE PROVIDED ON THE PULLEY.
- SUPPORT MEDIA SHOULD BE CHAIN, THREADED ROD, STEEL OR WIRE CABLE. **NEVER USE ROPE.**
- ONE-WAY OPERATING CURTAINS ARE INSTALLED IN THE SAME MANNER AS LISTED ABOVE WITH THE EXCEPTIONS THAT ONLY ONE MASTER CARRIER IS USED, THERE IS NO CENTER OVERLAP, AND ALL OF THE SINGLE CARRIERS ARE INSTALLED BEHIND THE SINGLE MASTER CARRIER.

II. CEILING MOUNTED INSTALLATIONS

NOTE: MODEL 260 FENSTEEL TRACK IS ASSEMBLED IN THE SAME MANNER AS DESCRIBED BELOW WITH THE EXCEPTION THAT THEI MODEL DOES NOT USE A TRACK OVERLAP. THE OVERLAP IS PROVIDED BY MASTER CARRIERS EQUIPPED WITH EXTENSION ARMS.

1. Lay the two track halves on the floor with the track slot facing down and with the amount of desired center overlap. If splicing is required, it should be done at this time. See splicing instructions below.

Hanging clamps and lap clamps are not needed or provided for ceiling mounted track systems. The top of the track channel should be drilled every 18" for direct attachment to the ceiling structure.

Because ceiling mounted tracks do not provide the opportunity for vertical adjustment, it is very important that the ceiling structure be level. Any deviation can cause the space between the bottom of the curtain and the floor surface to be uneven. Shims or blocking may be required for this purpose.

2. Install the live-end and dead-end pulleys at the end of the tracks and secure with the hardware supplied.
3. Insert an equal amount of single carriers into each track section. The carriers can be inserted at the open track ends located at the center overlap. The master carriers are the last to be inserted. Install the eye-bolt end stops in the open track ends at the center overlap and secure with the hardware provided.

Model 171-R is supplied with rubber spacers that ride on the operating cord between each carrier. Be sure to incorporate them when cording the track.

4. Lift the track sections into place and secure to the overhead structure.
5. Thread one end of the wire-center cable through one wheel of the live-end pulley, through the body of the single carriers, through the first master carrier and its cord connectors making sure to locate the cord connectors on inside the cavity of the master carrier body. Continue threading the cable through the eye-bolt of the end stop and around the dead-end pulley, through the body of the single carriers located in the other half of track, through the second master carrier and its cord connectors. Be sure to locate the cord connector in the cavity of the master carrier body. Thread the cable through the second end stop, the remaining wheel of the live-end pulley and down to the curtain machine.
6. You should have two coils of cable, of approximately the same length emanating from the live end pulley of the track. At this point refer to ADC form # **745-A** for instructions on cord attachment to the grooved cable drum.

IMPORTANT SPLICING INFORMATION

I. SUSPENDED TRACK: Place splice clamps onto track and align holes in track with those in splicing clamps. Tighten clamps in place by means of the three 1/4" x 3/4" stove bolts. Align track by tightening the four 5/16" case hardened cap screws against the top of both track sections. Place twelve 5/16" x 1/4" 20 stove bolts through the sides of the splice clamps and tighten into position. Refer to drawing P-1724 for further assistance.

II. CEILING MOUNTED TRACK: Place splicing clamps on track and align holes in splicing clamps with factory drilled and tapped holes of the track channel. Insert twelve 1/4"-20 by 5/16" long stove bolts through the holes in the side of the splice clamps and tighten securely into the tapped holes in the track channels. Refer to ADC drawing number 2624 for additional information.

INSTALLATION INSTRUCTIONS
SILENT STEEL MODEL 280 AND BESTEEL MODEL 170
EQUIPPED WITH CENTER TAKE-OFF LIVE END PULLEY

1. Track systems that utilize center take-off pulleys (CTO) incorporate a dead end pulley in place of the live end pulley. Make the substitution of a dead end pulley in the instructions for the track system being used. Assemble the remainder of the track system according to its standard instructions to the point where it is ready for cable installation.
2. The CTO can be located along the track only in areas where the return cable is in an open area (not going through carriers). The CTO can be attached to the track anywhere between the center overlap and as close as 4 feet to the dead-end pulley. Do not locate the CTO any closer than 4 feet from the dead end pulley.
3. The operating cable can be installed either before the track is raised to its final position, or after the track is in place. Starting at the CTO, thread the cable around one of the CTO's sheaves, around one of the dead end pulleys, through the single carriers and then the master carrier to the other side of the track. Continue to and around the other dead end pulley, then back through the single carriers and master carrier on that side. Thread the cable past the center overlap and around the remaining CTO sheave.

Do not tighten the master carrier's cable clamps at this time.

4. An additional mule sheave is usually required to mule the cables down to a floor mounted curtain machine. The mule block can be ceiling, or wall mounted but must be able to support the operating load of the system. Run the cables from the CTO to the mule block, and then down to the curtain machine making sure that the lines remain in alignment. Connect the cables to the curtain machine's grooved cable drum, referring to form 745-A for instructions.
5. It is very important that the track be securely braced in every direction so that it does not sway during operation. The use of a CTO will create a load perpendicular to the track as the system operates. Make sure to add supports to the system that will allow for this additional force. Any movement of the track will affect cable tension.
6. Locate the master carriers an equal distance from the ends of their tracks, and secure the operating cable to the master carriers with the cable clamps provided.
7. Test the track and machine operation several times prior to attaching the curtain to the track system.

NOTE: FOR MANUALLY OPERATED 170 TRACK, REFER TO FORM 710.
FOR MANUALLY OPERATED 280 TRACK, REFER TO FORM 718.

INSTALLATION INSTRUCTIONS FOR BESTEEL CURTAIN TRACKS

WALK-DRAW MODELS 173, 173-N & 173-R

CEILING MOUNTED TRACK

1. Place the 1700 track channels and curves (if needed) on the floor, or stable support, for assembly.
2. The top of the track must be drilled every 18" for direct attachment to the ceiling structure. Shims or blocking may be required if the ceiling surface is uneven.
3. If the track layout has curves, splice them to the straight sections of track. Splice the remaining track sections together. Make sure that the assembled sections are not too large to handle. Refer to **drawing number iso-2624-96** and the notes below for additional ceiling mount splice clamp installation instructions.
4. Insert the single and master carriers from the open ends of the track and install the end stops with the hardware provided. If you have a model 173-r model track, make sure that the rubber bumpers are installed on the carriers. If final assembly of track sections is to be made with the track in the mounted position, wait until assembly is complete to add carriers and end stops.
5. With the carriers and end stops installed lift the track into position and secure to ceiling structure with appropriate hardware.
6. It may be desirable to attach chains between carriers, especially on long tracks, or on tracks with heavy curtains where curtains will be pulled from either end. Chains will relieve the strain on the top of the curtain. It is often easier to push the folded curtain around curves rather than pull the curtain from one end.

important splicing information

- ◆ Place splicing clamps on track and align the holes in the splicing clamps with the holes that have been drilled and tapped in the sides of the track channel.
- ◆ Insert twelve (12) 1/4-20 x 5/16" long stove bolts through the holes in the sides of the splice clamps. Tighten them securely into the tapped holes in the track channel.

INSTALLATION INSTRUCTIONS FOR BESTEEL WALK-DRAW MODELS 173, 173-N & 173-R SUSPENDED INSTALLATIONS

1. Place the track channels and curves (if used) on the floor, or a stable support for assembly.
2. If a center overlap is desired, overlap the tracks by the amount desired and attach the lap clamps (1707) to the track by inserting the bolt from below, through the hole in the top of each clamp. Install and tighten the nuts on top of the clamp to the bolt to lock the clamps in place.
3. If the track layout includes curves, splice them to the straight sections of track. Splice the remaining track sections together. Make sure that the assembled sections are not too large to handle. Refer to **drawing number a-2824-1724** for additional splice clamp installation instructions. Be sure to adjust the setscrews of the splice clamps such that the side, top and bottom surfaces of the two joined track channels are properly aligned.
4. Attach hanging clamps (1708) a maximum of every 6' along the track length and at each end of the track channels. Be sure to support the curved sections of track from the splice clamps. Do not attach hanging clamps directly to the curved sections of track.
5. Insert the single and master carriers into the track sections and install the end stops at the open ends with the hardware provided. If you have a model 173-r model track, make sure that the rubber bumpers are installed on the carrier.
6. With the carriers and end stops installed lift the track into position and secure it to the ceiling structure with appropriate hardware.
7. It may be desirable to attach chains between carriers, especially on long tracks, or on tracks with heavy curtains where curtains will be pulled from either end. Chains will relieve the strain on the top of the curtain fabric. It is often easier to push the folded curtain around curves rather than pull the curtain around the curve from one end of the curtain.

important suspended track information

- Never use less than five (5) lines to suspend any track system.
- Always attach hanging clamps and use support lines to the ends of the track sections.
- Firmly anchor end stops at each end of the track channels.
- Pipe battens can be used to provide additional support to suspended track system. Pipe clamps are available for attachment of hanging clamps to common size pipe battens.

- If possible, add hanging clamps immediately alongside of splice clamps. These will aid in maintaining correct track alignment at the splice.
- When properly supported, a suspended track will not sway a great deal during curtain operation.
- A chain, positioning pole, or other positioning device can be attached to the master carrier(s) to aid in curtain operation.

INSTALLATION INSTRUCTIONS FOR RUBBER SPACERS AND BUMPERS

<u>RUBBER SPACER</u>	<u>DESCRIPTION</u>
1726	5/8" O.D. X 5/16" I.D. X 1/8" THICK
2825	1/2" O.D. X 1/2" DEEP, TAPERED WITH SLOT
2826	1" O.D. X 1/2" I.D. X 1/8" THICK
2827	1" O.D. X 1/2" I.D. X 7/16" THICK
2827A	1-1/4" O.D. X 5/8" I.D. X 5/16" THICK

BESTEEL MODEL 171-R TRACK (HAND OR MACHINE OPERATED)

- One 1726 Rubber Spacer is inserted between each carrier.
- If Backpack Guides are used, the 1726 is inserted between each Backpack Guide and the carrier to which it is attached.

BESTEEL MODEL 172-R TRACK (HAND OPERATED)

- One 2826 Rubber Spacer is inserted between each carrier.
- If Backpack Guides are used, the 2826 is inserted between each Backpack Guide and the carrier to which it is attached.

SILENT STEEL MODEL 280 TRACK (HAND OR MACHINE OPERATED)

- One 2825 Rubber Bumper is attached to each carrier, directly above the opening for the cord, on the side facing the master carrier.
- If Backpack Guides are used, the 2826 is inserted between each Backpack Guide and the carrier to which it is attached. One 2827 Rubber Spacer is inserted between each Backpack Guide and the following carrier. One 2827 Rubber Spacer is inserted between the master carrier and the adjoining single carrier.

SILENT STEEL MODEL 280-A TRACK (HAND OR MACHINE OPERATED)

- One 2826 Rubber Spacer is inserted between each carrier.
- If Backpack Guides are used, follow the same procedure as described above for the Model 280 track equipped with Back-Pack Guides.

SILENT STEEL MODELS 281 AND 282 TRACKS (HAND OR MACHINE OPERATED)

- One 2827 Rubber Bumper is inserted between each carrier.
- If Back-Pack Guides are used, follow the same procedure as described above for the Model 280 track equipped with Backpack Guides.

SILENT STEEL MODELS 283-N AND 283-R (HAND OPERATED)

- Two 2827-A Rubber Spacers are inserted between each carrier.
- If Backpack Guides are used, one 2827-A Rubber Spacer is inserted between each Backpack Guide and the carrier to which it is attached. One 2827-A Rubber Spacer is inserted between each Backpack Guide and the carrier that follows it.

SILENT STEEL MODELS 283-N AND 283-R (MACHINE OPERATED)

- One 2827 Rubber Spacer is inserted between each carrier.
- If Backpack Guides are used, follow the same procedures as are used for Model 280 track equipped with Backpack Guides.

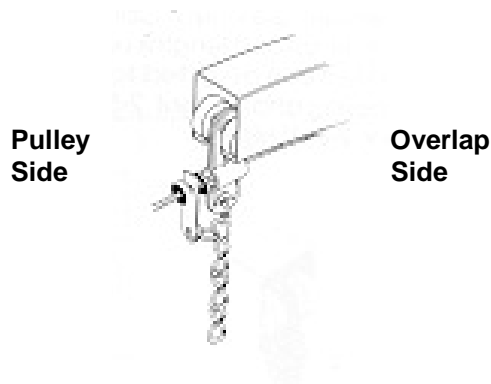
GENERAL COMMENTS

Rubber spacers are never inserted between single carriers and end pulleys. This also applies to backpack guides. Never attach a backpack guide to the outer-most single carriers next to the live and dead-end pulleys. Also never attach backpack guides to master carriers.

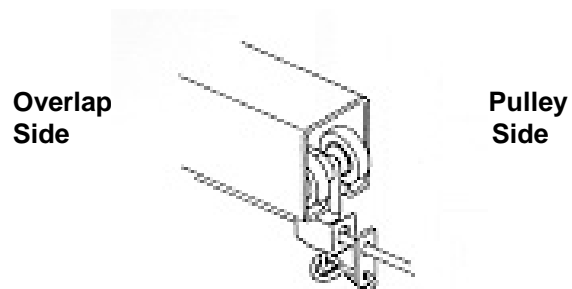
CAUTION TAG

ATTACHMENT OF BACK-PACK GUIDES

- Back-pack guides must be attached to the back (pulley side) of the track single carriers.
- Check the chain connecting the back-pack guide body to the carrier and make certain that it is not twisted, or in conflict with the curtain fabric.
- The half-link closest to the back-pack guide must be entirely vertical for the back-pack to operate correctly.
- The half-link closest to the carrier swivel must be entirely horizontal for the back-pack to operate correctly.
- Do not attach back-pack guides to the last (off stage) carriers. Installing back-packs to these carriers will interfere with the end pulleys of the track and damage the operating cord or cable.
- Failure to adhere to the above warnings will result in damage to the track system components and/or hinder operation of the track system.



Model 280 Track Systems



Model 170 Track Systems



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.

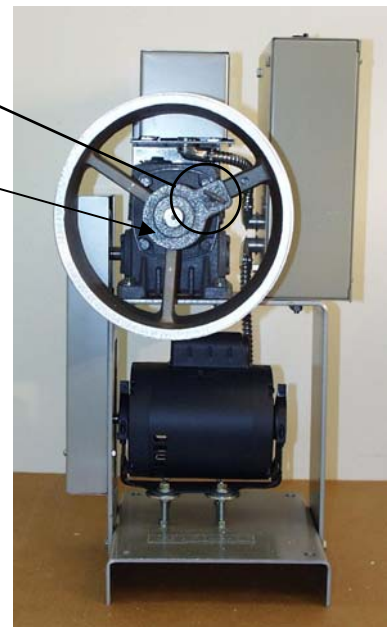


Photo 1

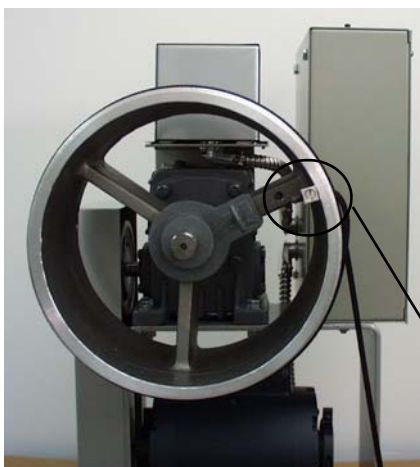


Photo 2

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](#)).

Cable Clamp (CF-1)



4. Following the grooves carefully, wrap the cable 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

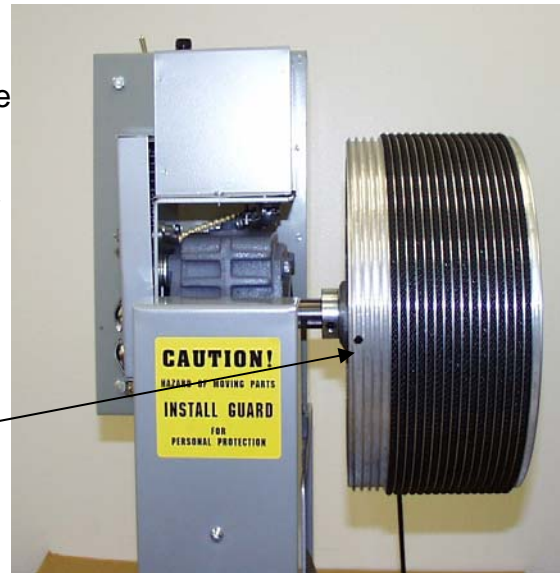


Photo 3

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.

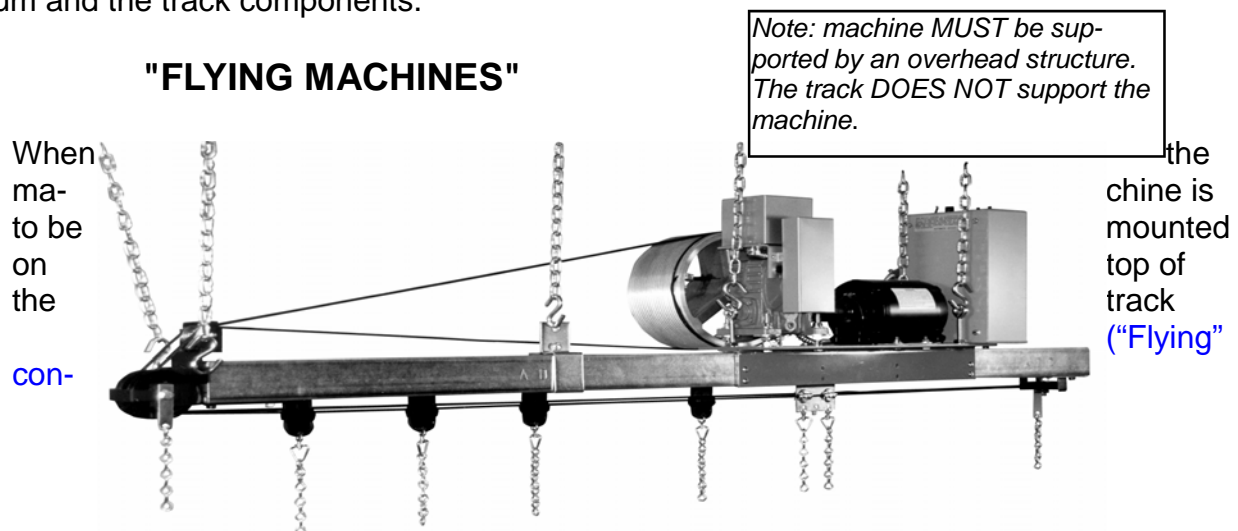
At least 1 empty groove between cables.

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.



(**figuration**), 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

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.
2. Disengage the drum from the drive shaft by loosening the thumb screw on the driving dog. Thread the end of the cable through the hole in one end of the drum. Fasten the end of cable to the inside of the drum with cord the cable connector provided.
3. 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. 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.
4. Allow at least one empty groove in the drum and wind 3 wraps of the cord around the drum in the opposite direction of the first cable attached to the drum. Feed the end of the cable through the hole in the drum and attaching it with a cord connector. Cut off any excess cable.
5. Engage the drum by tightening the thumbscrews.
6. Adjust the limit switches. Directions for limit switch adjustments are located on the limit switch cover (Form #306).

IMPORTANT NOTES

- All wire-centered cable stretches during its first few weeks of use. It is strongly recommended that periodic checks are made, and excess slack is taken up, 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.
- 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 may damage the aluminum drum and the track components.

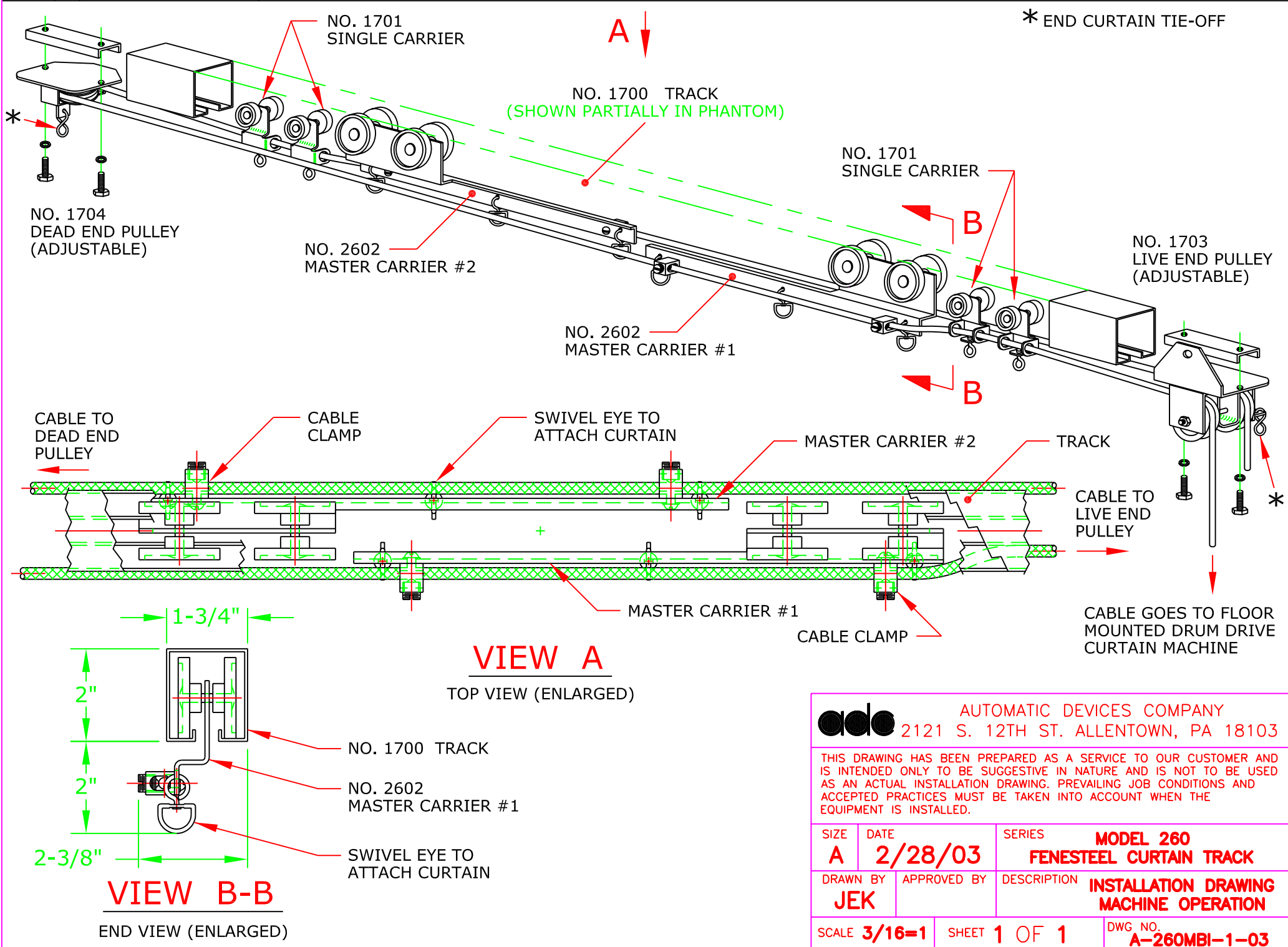
"FLYING MACHINES":

When the machine is to be mounted on top of the track, 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. Eyebolts 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.

BACK-PACK GUIDE SCHEDULE

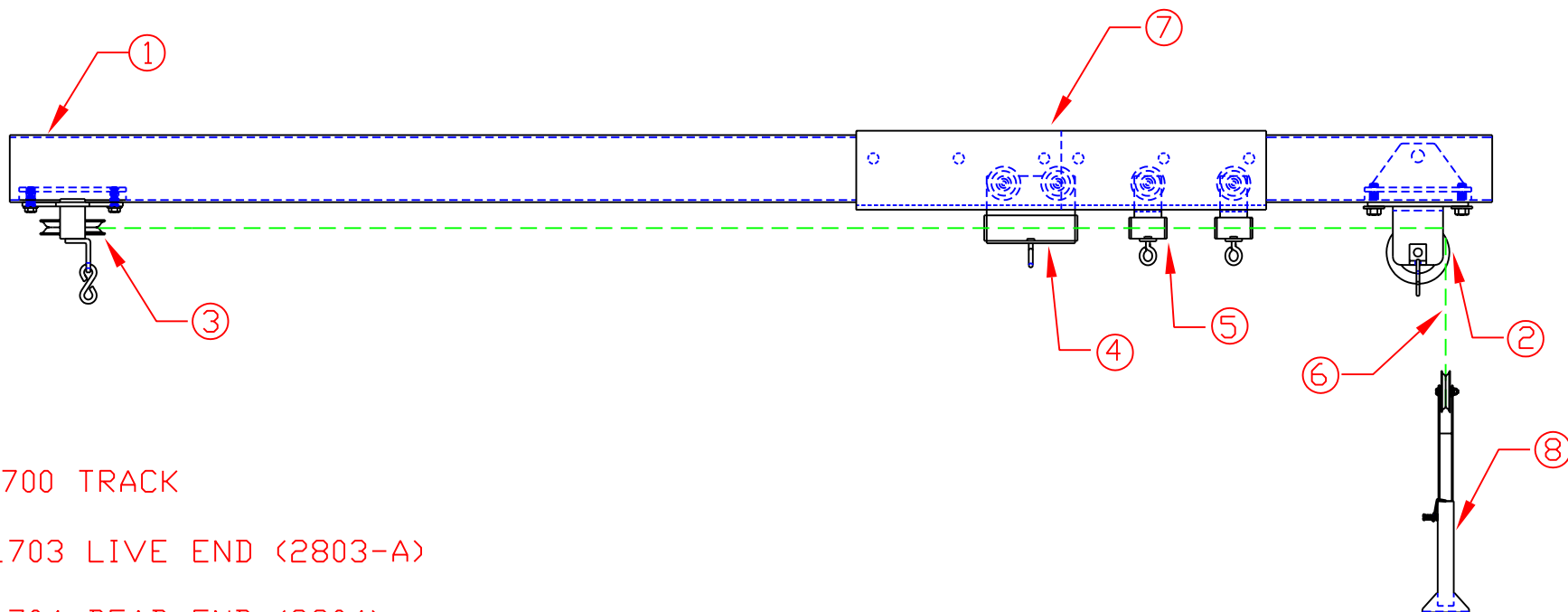
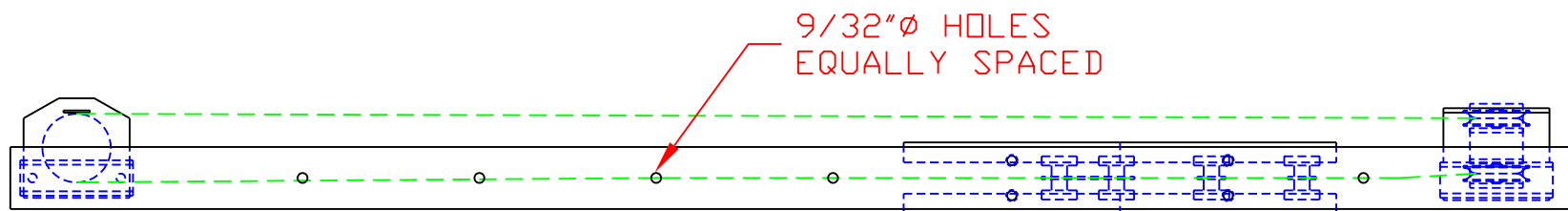
GUIDE	GUIDE I.D.	WASHER No 1.	O.D.	I.D.	THICKNESS	WASHER No 2.	O.D.	I.D.	THICKNESS	OPERATION
1733	5/16"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HAND
1734	1 /4"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	MACHINE
1735	3/8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HAND (1730)
2833A	5/8"	2827A	1-1/16"	5/8"	7/16"	2827A	1-1/16"	5/8"	7/16"	HAND (2830)
2834	1 /4"	2826	1"	9/16"	1/8"	2827	1"	9/16"	7/16"	MACHINE
2833	7/16"	2826	1"	9/16	1/8"	2827	1"	9/16"	7/16"	HAND



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SIZE	DATE	SERIES	
A	2/28/03	MODEL 260	
		FENESTEL CURTAIN TRACK	
DRAWN BY	APPROVED BY	DESCRIPTION	
JEK		INSTALLATION DRAWING MACHINE OPERATION	
SCALE 3/16=1		SHEET 1 OF 1	DWG. NO. A-260MBI-1-03



- ① - 1700 TRACK
 - ② - 1703 LIVE END (2803-A)
 - ③ - 1704 DEAD END (2804)
 - ④ - 1702 MASTER CARRIER (1738,1750)
 - ⑤ - 1701 SINGLE CARRIER (1737,1749)
 - ⑥ - OPERATING CORD OR CABLE
 - ⑦ - 2624 SPLICE CLAMP (IF NEEDED)
 - ⑧ - 2865 FLOOR PULLEY (2805,2866,2866A)
- (*,*) DENOTES ALTERNATIVE COMPONENTS

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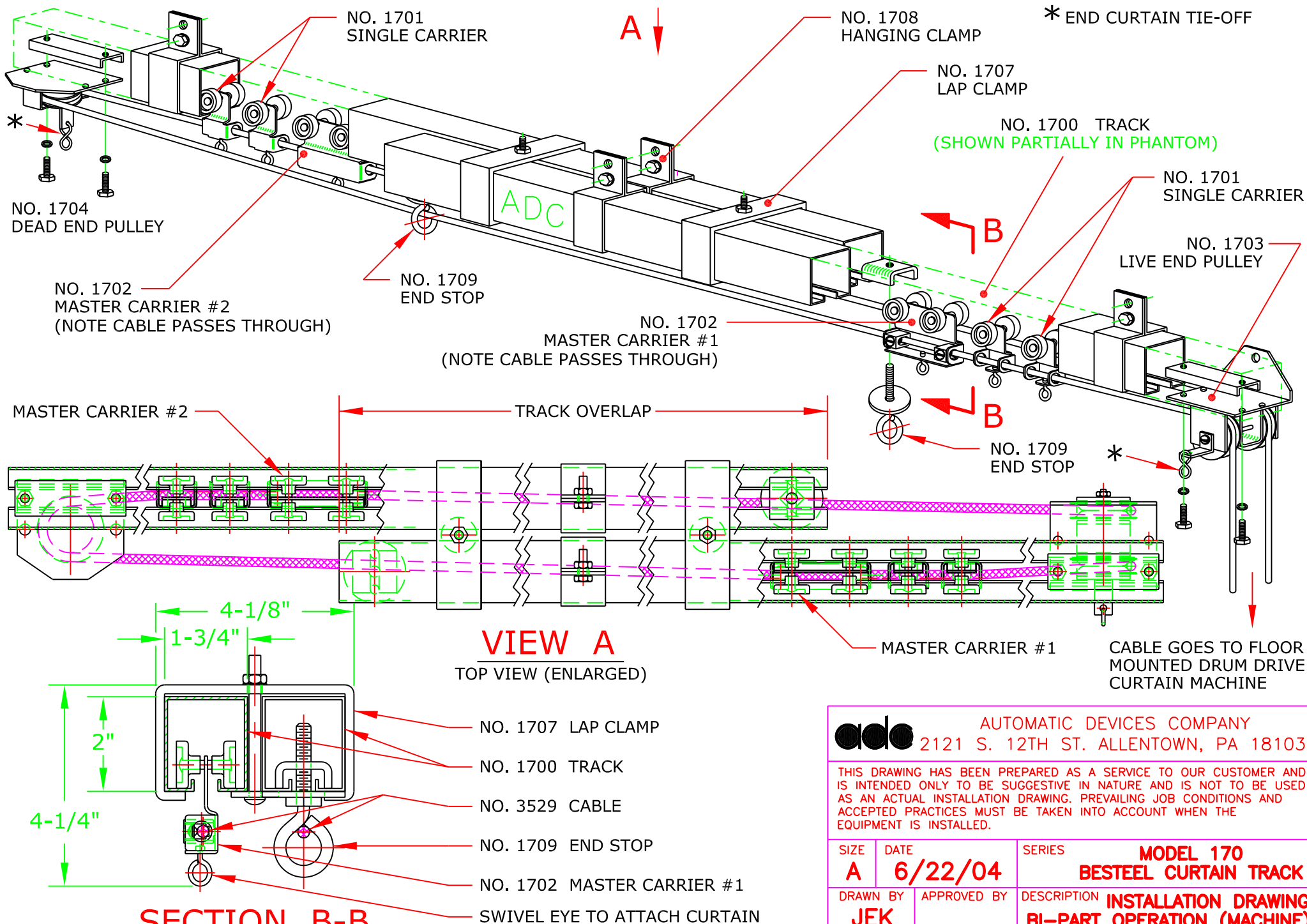
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SIZE A	DATE 06/01/98	INSTALLATION INSTRUCTIONS	REV
DRAWN BY GAR	APPROVED BY	DESCRIPTION 1700 TRACK LEG ASSEMBLY-CEILING MOUNTED	
SCALE NTS	SHEET 1 OF 1	DWG NO. II-170CL-98	

REV.

DATE:

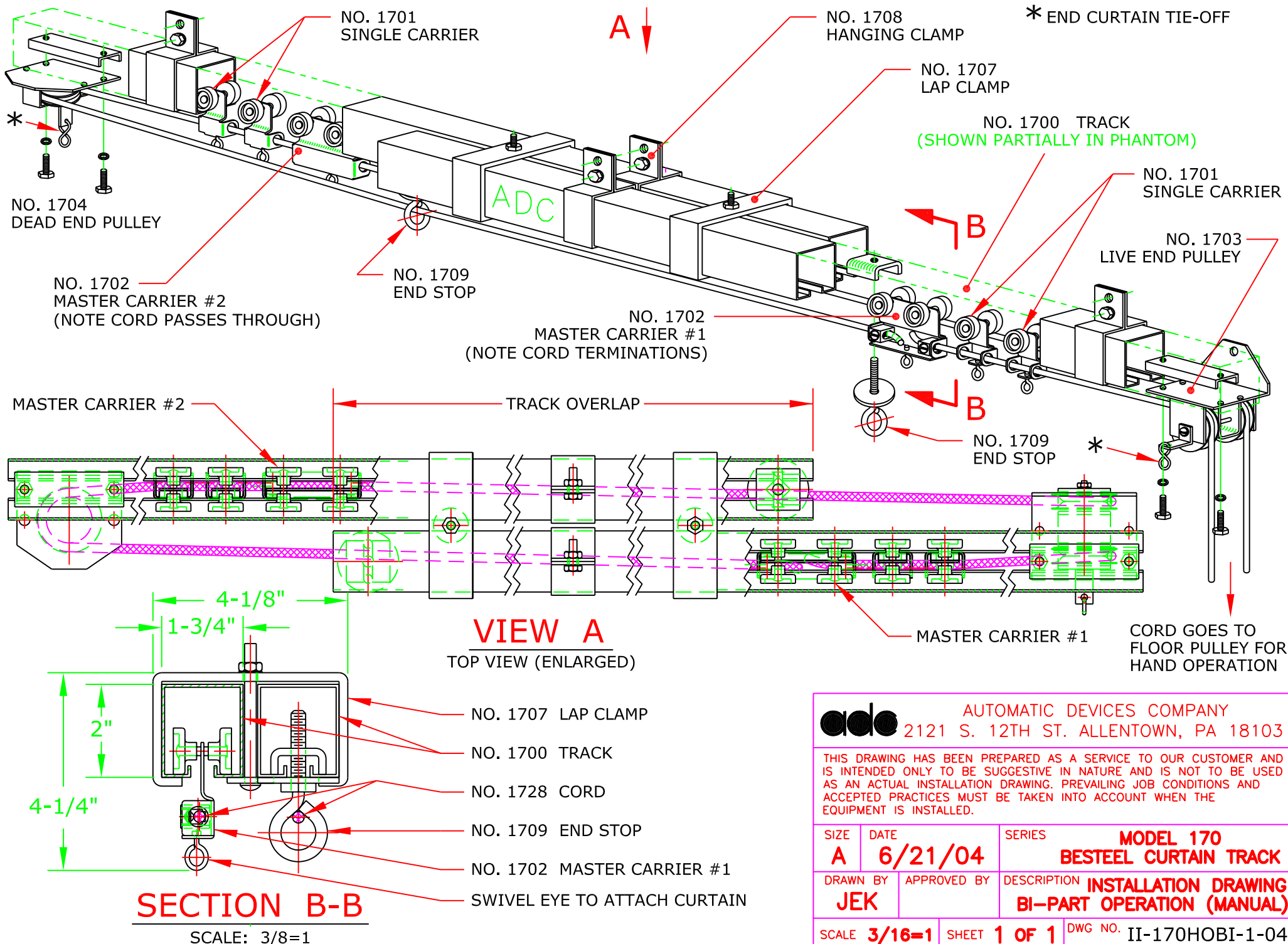
FORM NO.: 170BPMS

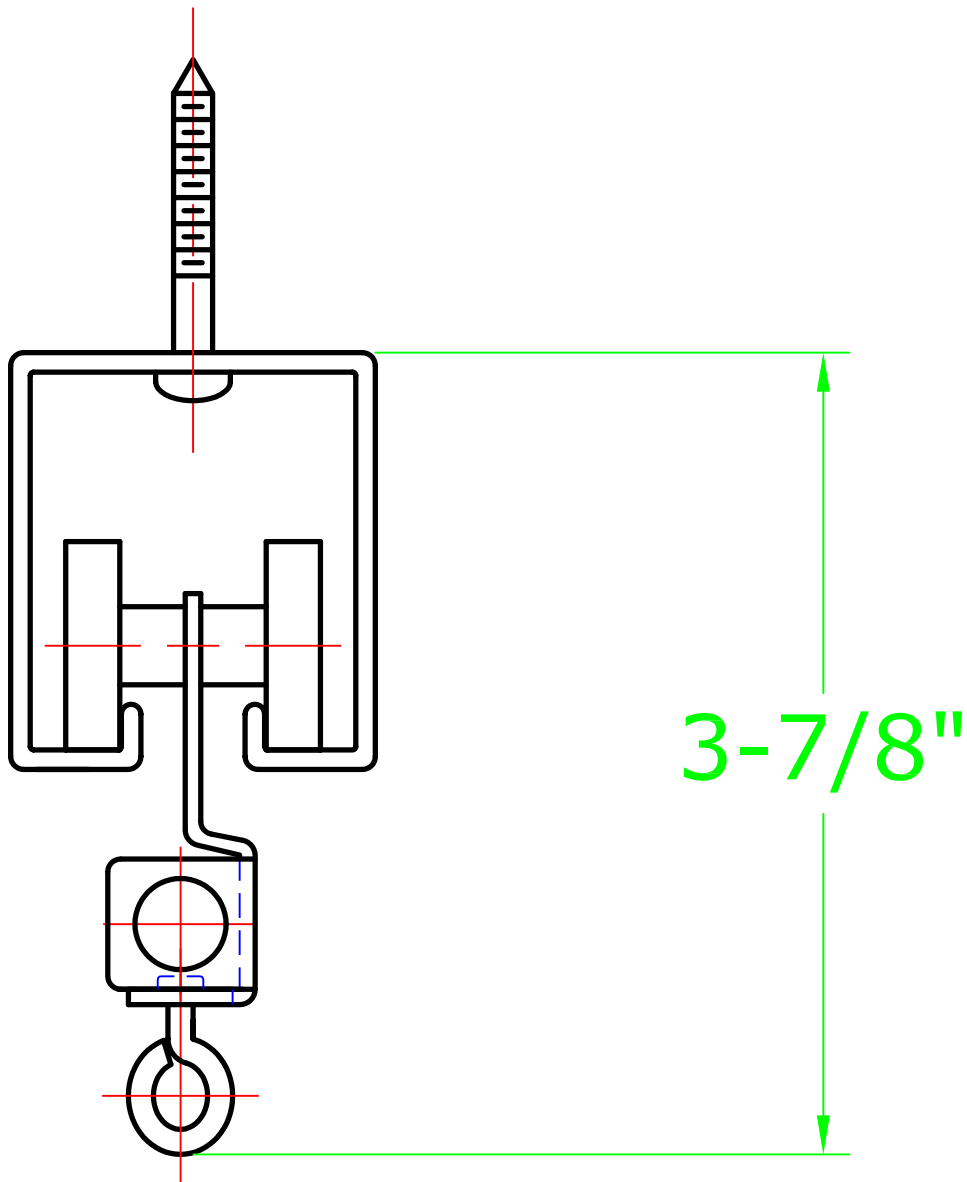


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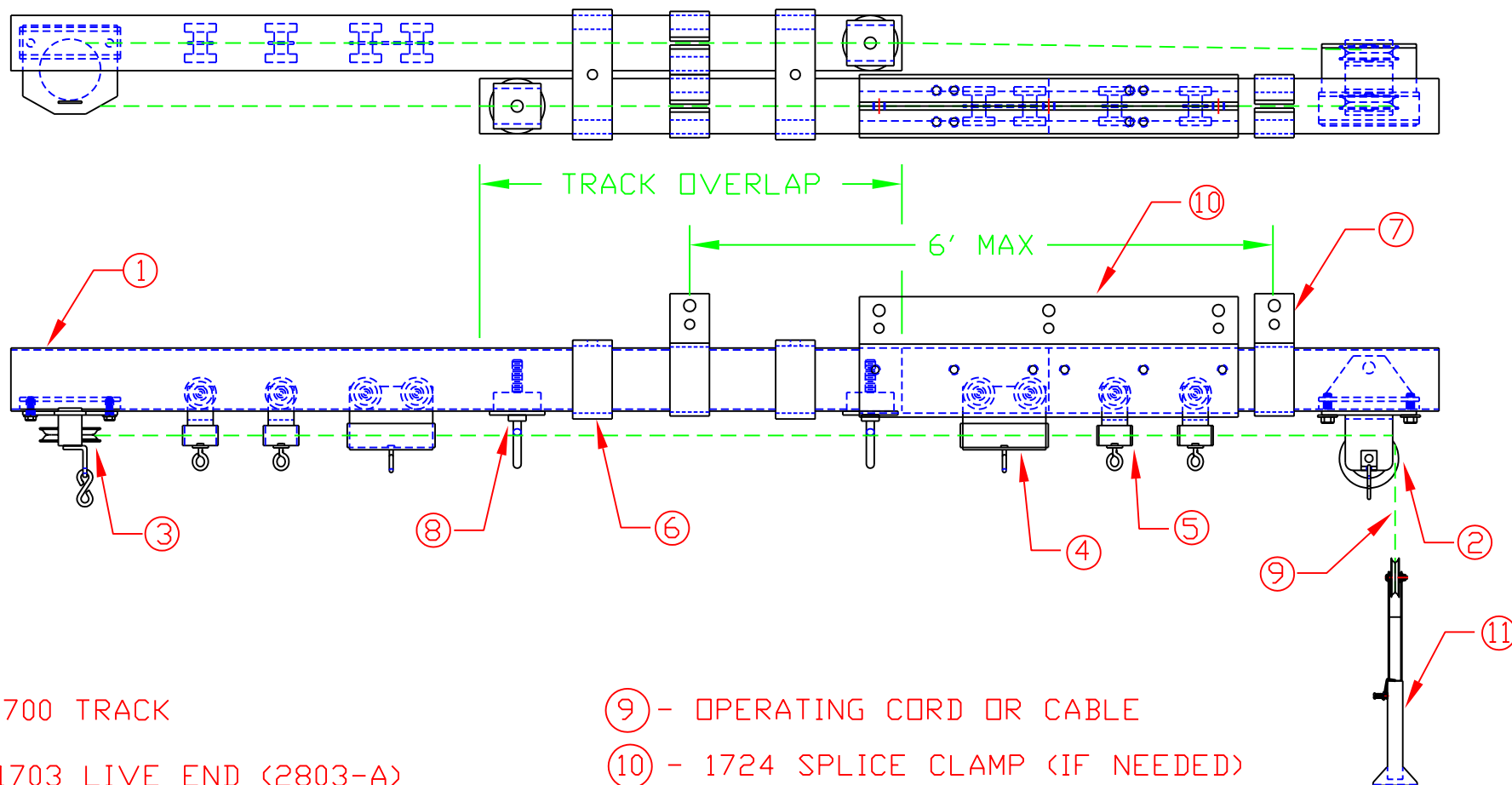
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SIZE	DATE	SERIES	MODEL 170 BESTEEL CURTAIN TRACK
A	6/22/04		
DRAWN BY	APPROVED BY	DESCRIPTION	INSTALLATION DRAWING BI-PART OPERATION (MACHINE)
JEK			
SCALE 3/16=1	SHEET 1 OF 1	DWG NO.	II-170MBI-1-04





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SIZE A	DATE 8/16/02	SERIES 170	
DRAWN BY JEK	APPROVED BY	DESCRIPTION 170 CEILING MOUNT	
SCALE NONE	SHEET 1 OF 1	DWG. NO. CAT-170CEIL-02	



① - 1700 TRACK

② - 1703 LIVE END (2803-A)

③ - 1704 DEAD END (2804)

④ - 1702 MASTER CARRIER (1738,1750)

⑤ - 1701 SINGLE CARRIER (1737,1749)

⑥ - 1707 LAP CLAMP

⑦ - 1708 HANGING CLAMP

⑧ - 1709 END STOP

⑨ - OPERATING CORD OR CABLE

⑩ - 1724 SPLICE CLAMP (IF NEEDED)

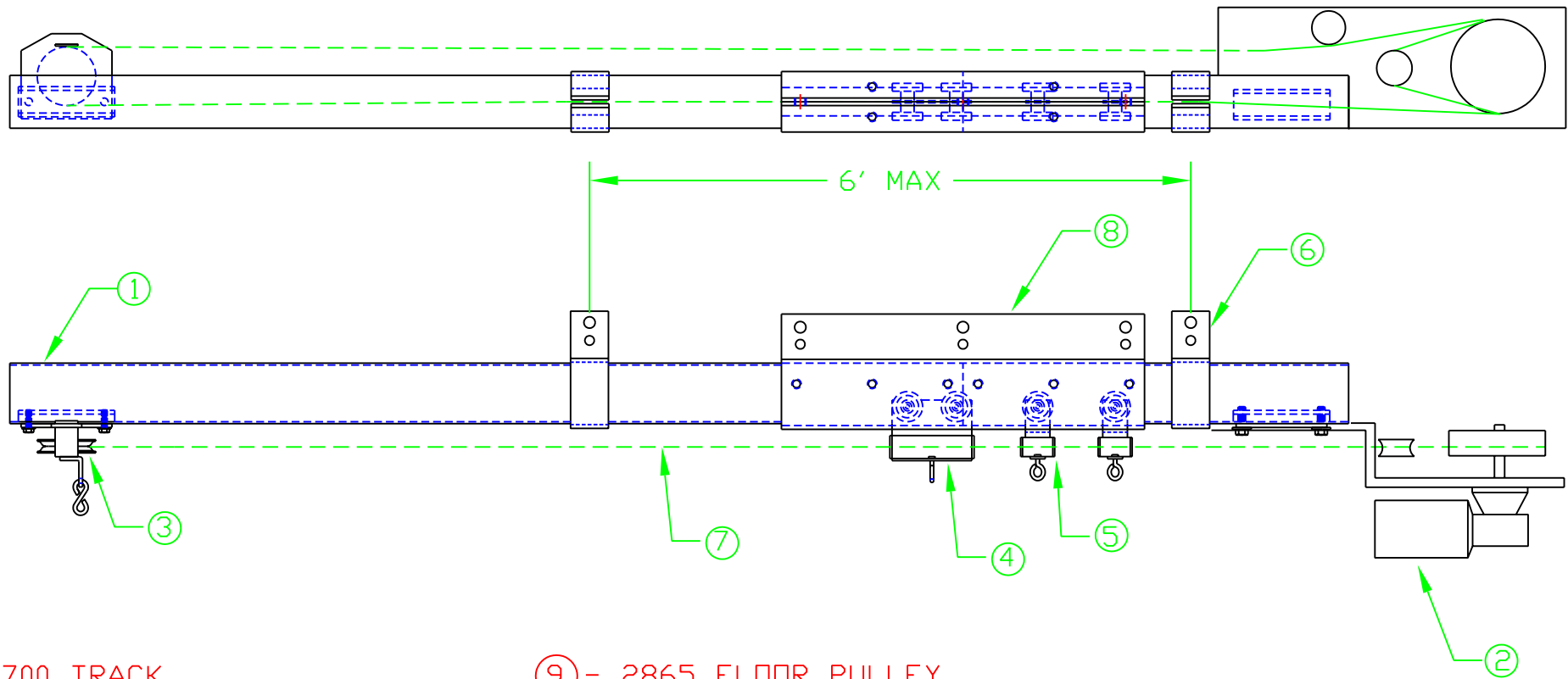
⑪ - 2865 FLOOR PULLEY (2805,2866,2866A)

(* ,*) DENOTES ALTERNATIVE COMPONENTS

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SIZE A	DATE 01/22/98	INSTALLATION INSTRUCTIONS	REV
DRAWN BY GAR	APPROVED BY	DESCRIPTION 170 BI-PARTING SUSPENDED SYSTEM	
SCALE NTS	SHEET 1 OF 1	DWG NO. II-170BPS-98	



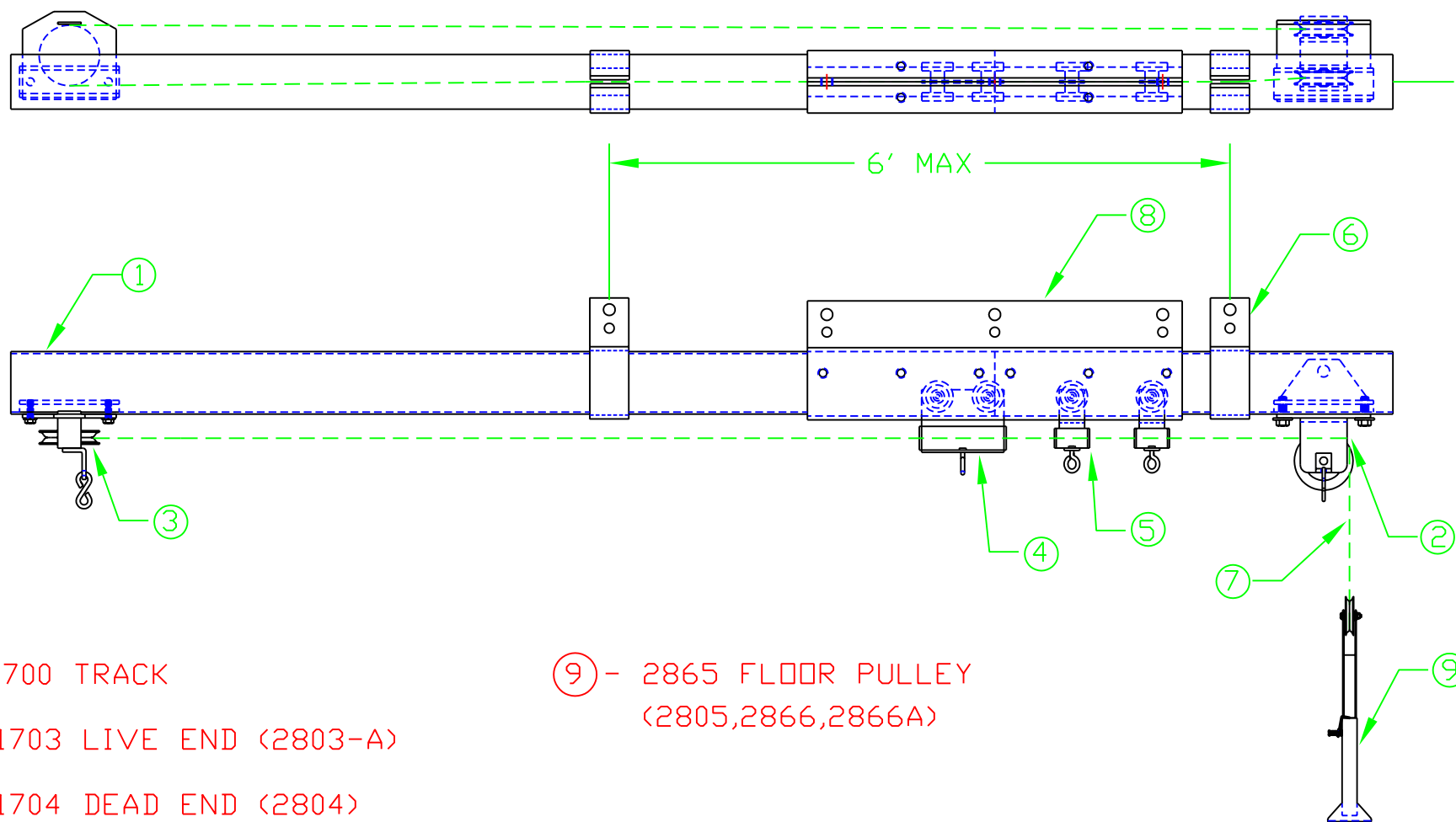
- ① - 1700 TRACK
- ② - 2917 INLINE MACHINE
- ③ - 1704 DEAD END (2804)
- ④ - 1702 MASTER CARRIER (1738,1750)
- ⑤ - 1701 SINGLE CARRIER (1737,1749)
- ⑥ - 1708 HANGING CLAMP
- ⑦ - OPERATING CABLE
- ⑧ - 1724 SPLICE CLAMP (IF NEEDED)
- ⑨ - 2865 FLOOR PULLEY
(2805,2866,2866A)

(*,*) DENOTES ALTERNATIVE COMPONENTS

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SIZE A	DATE 12/29/01	INSTALLATION INSTRUCTIONS	REV
DRAWN BY GAR	APPROVED BY	DESCRIPTION 170 ONE-WAY WITH 2917 MACHINE	
SCALE NTS	SHEET 1 OF 1	DWG NO. II-170SL2917-01	



① - 1700 TRACK

② - 1703 LIVE END (2803-A)

③ - 1704 DEAD END (2804)

④ - 1702 MASTER CARRIER (1738,1750)

⑤ - 1701 SINGLE CARRIER (1737,1749)

⑥ - 1708 HANGING CLAMP

⑦ - OPERATING CORD OR CABLE

⑧ - 1724 SPLICE CLAMP (IF NEEDED)

⑨ - 2865 FLOOR PULLEY
(2805,2866,2866A)

(* ,*) DENOTES ALTERNATIVE COMPONENTS

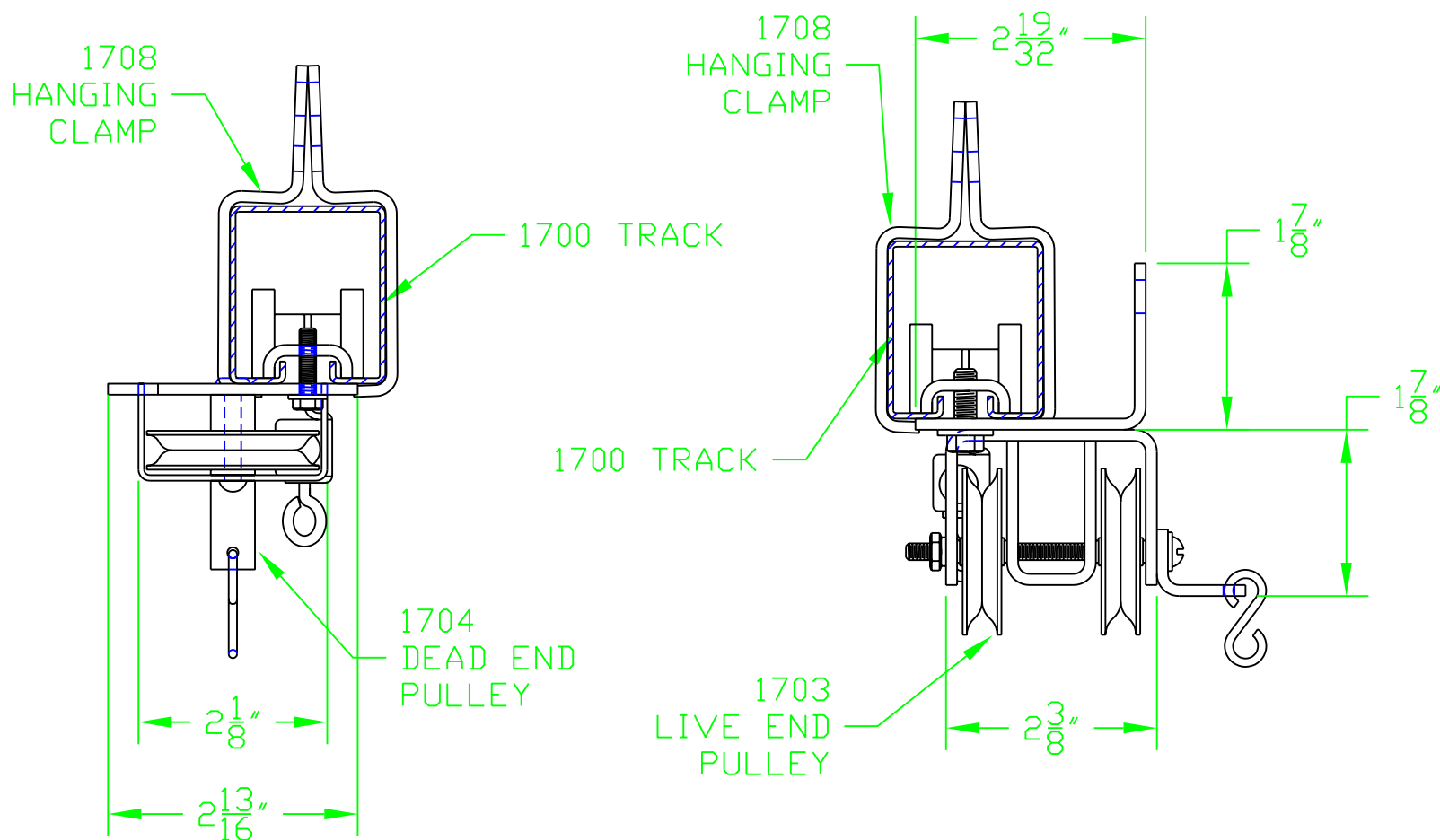
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SIZE A	DATE 05/29/98	INSTALLATION INSTRUCTIONS	REV
DRAWN BY GAR	APPROVED BY	DESCRIPTION 1700 TRACK ASSEMBLY	
SCALE NTS	SHEET 1 OF 1	DWG NO. II-170SL-98	

REV

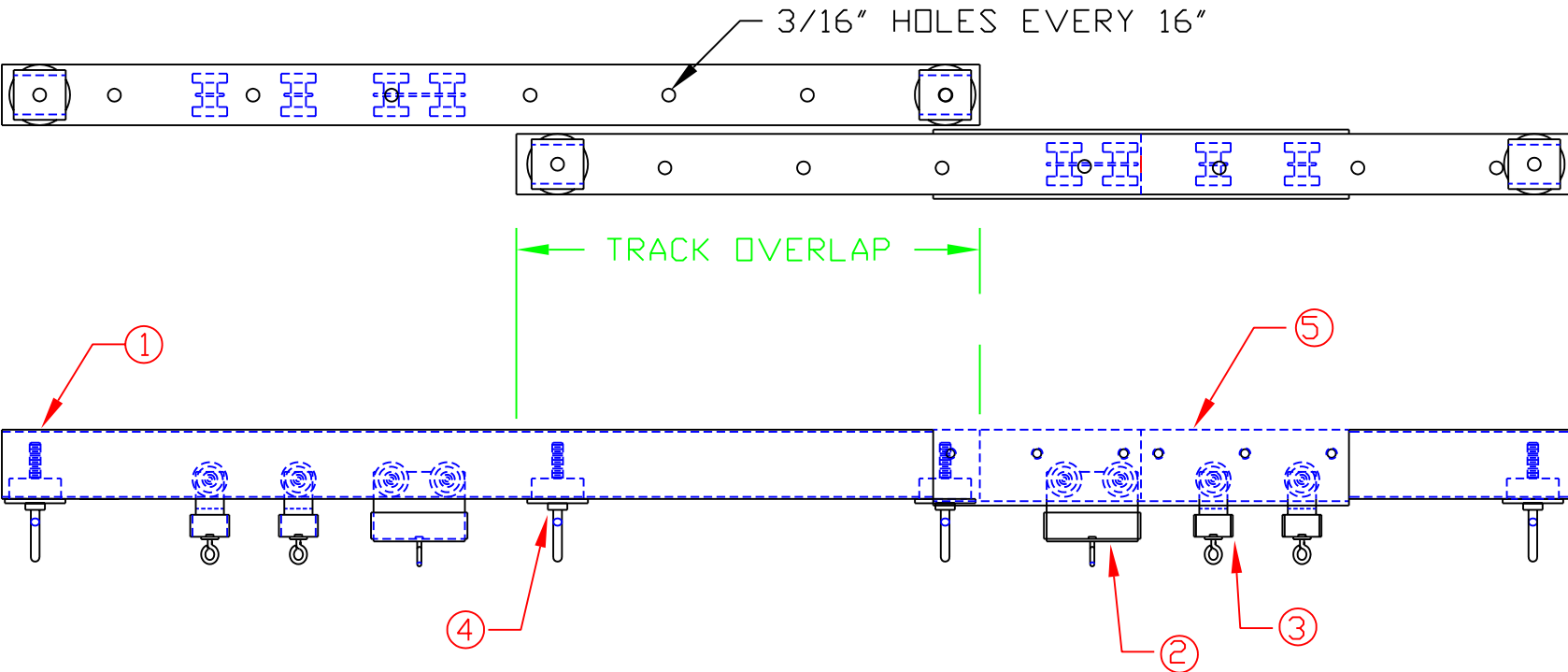
DATE:



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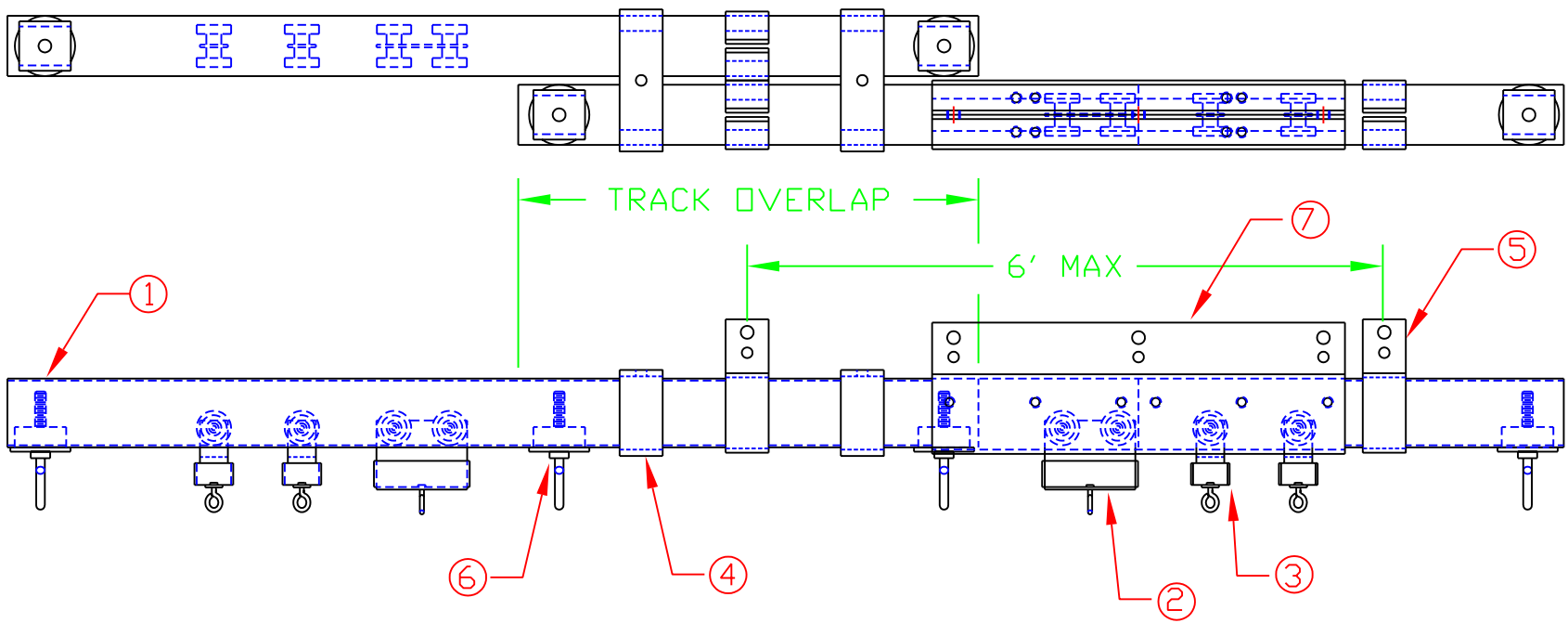
SIZE A	DATE 07/28/98	INSTALLATION INSTRUCTIONS	REV
DRAWN BY GAR	APPROVED BY	DESCRIPTION 1703 & 1704 END VIEW	
SCALE 1/2"=1"	SHEET 1 OF 1	DWG NO. II-170SEC-98	



- ① - 1700 TRACK
- ② - 1702 MASTER CARRIER (1738,1750)
- ③ - 1701 SINGLE CARRIER (1737,1749)
- ④ - 1709 END STOP
- ⑤ - 2624 SPLICE CLAMP (IF NEEDED)

(* ,*) DENOTES ALTER-NATIVE COMPONENTS

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SIZE	DATE	INSTALLATION INSTRUCTIONS		REV
A	01/04/02			
DRAWN BY	APPROVED BY	DESCRIPTION 173 BI-PARTING CEILING MOUNTED		
GAR				
SCALE	NTS	SHEET	1 OF 1	DWG NO. II-173BPC-02



- ①

- 1700 TRACK
- ②

 - 1702 MASTER CARRIER (1738,1750)
- ③

 - 1701 SINGLE CARRIER (1737,1749)
- ④

 - 1707 LAP CLAMP
- ⑤

 - 1708 HANGING CLAMP
- ⑥

 - 1709 END STOP
- ⑦

- 1724 SPLICE CLAMP (IF NEEDED)

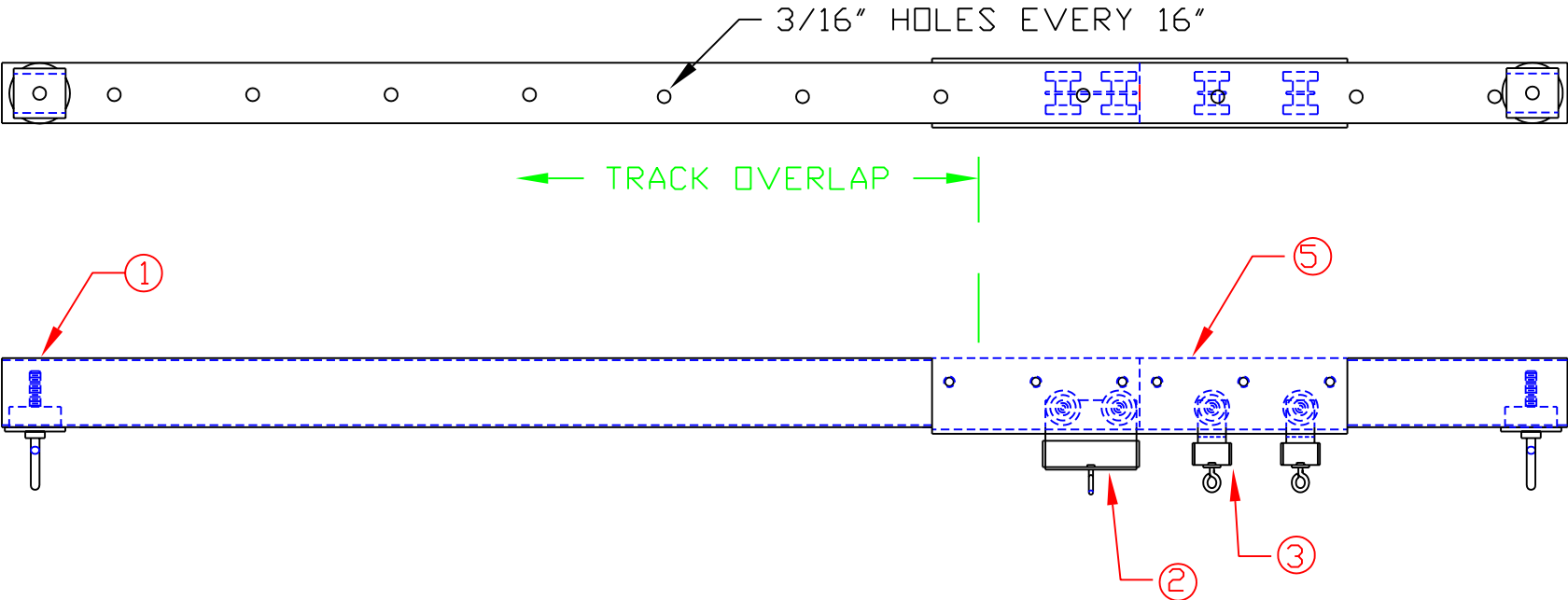
(* ,*) DENOTES ALTER-NATIVE COMPONENTS

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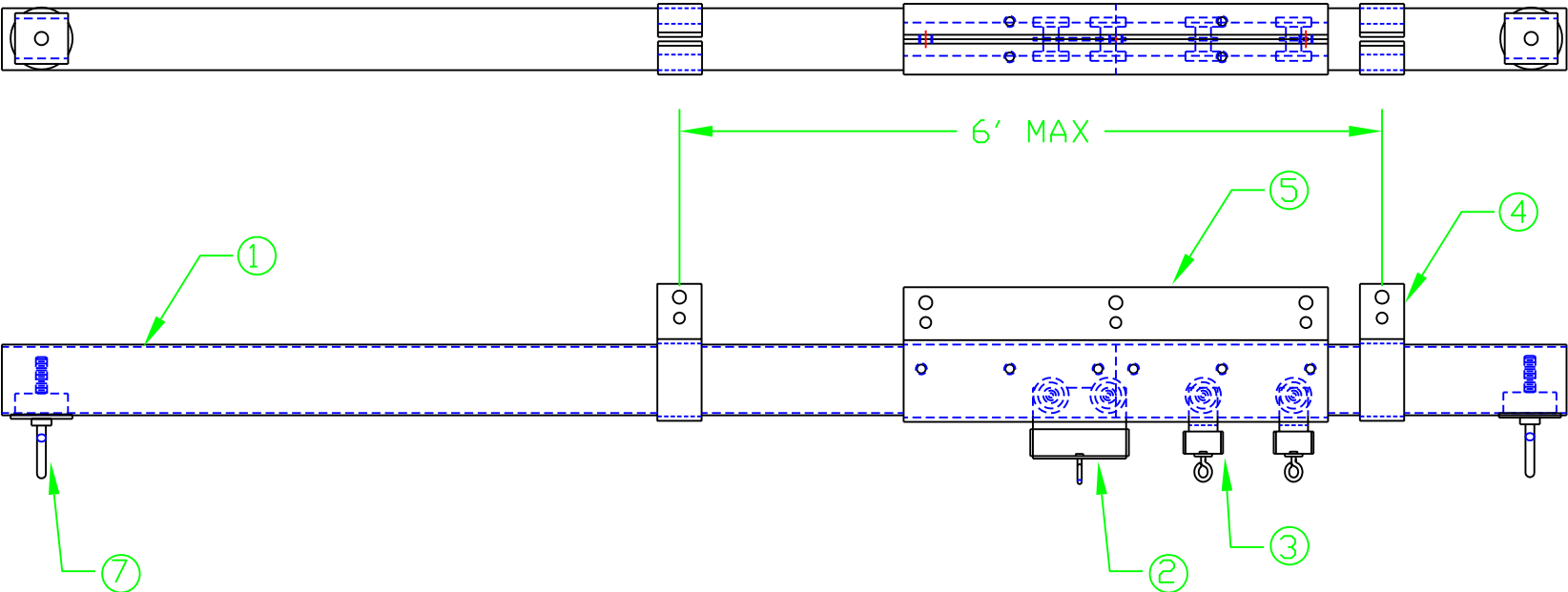
SIZE	DATE	INSTALLATION INSTRUCTIONS	REV
A	01/04/02		
DRAWN BY	APPROVED BY	DESCRIPTION	
GAR		173 BI-PARTING SUSPENDED SYSTEM	
SCALE	NTS	SHEET	DWG NO.
		1 OF 1	II-173BPS-02



- ① - 1700 TRACK
- ② - 1702 MASTER CARRIER (1738,1750)
- ③ - 1701 SINGLE CARRIER (1737,1749)
- ④ - 1709 END STOP
- ⑤ - 2624 SPLICE CLAMP (IF NEEDED)

(* ,*) DENOTES ALTER-NATIVE COMPONENTS

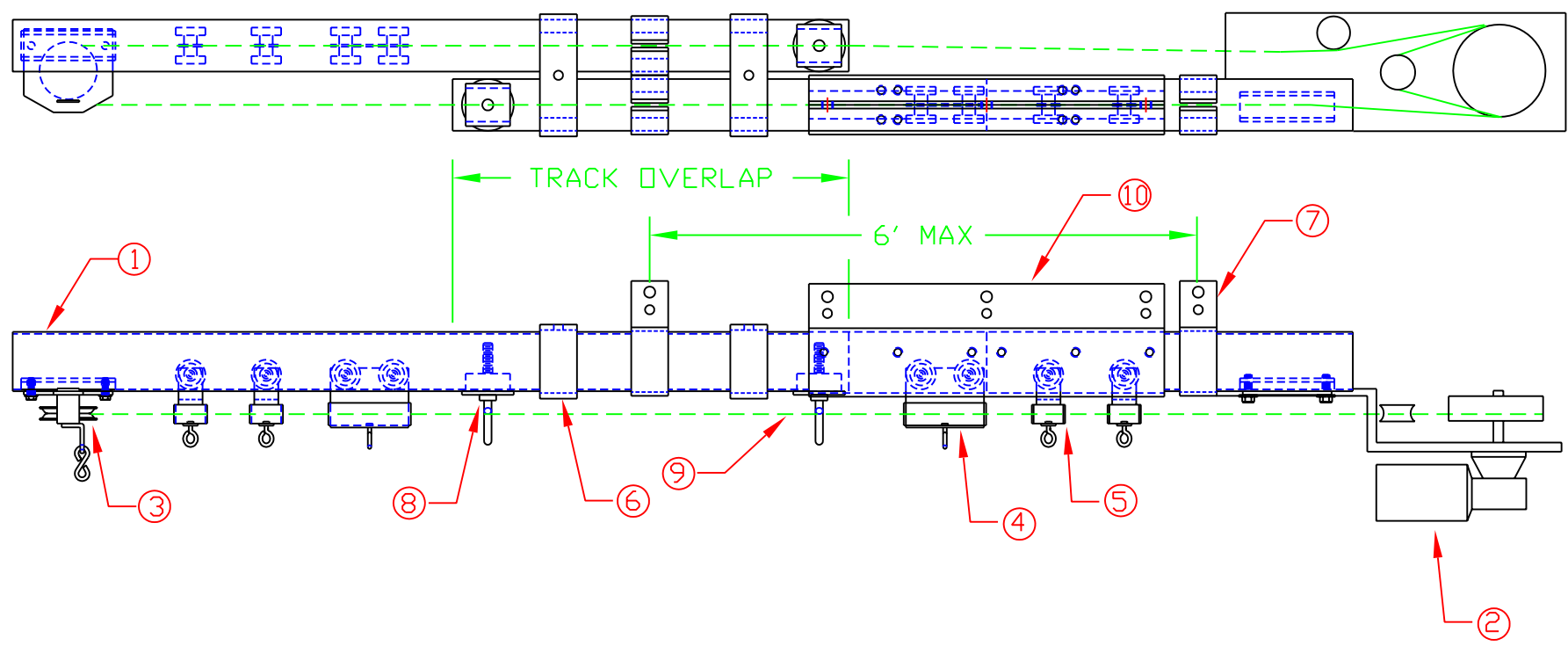
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SIZE	DATE	INSTALLATION INSTRUCTIONS		REV
A	01/04/02			
DRAWN BY	APPROVED BY	DESCRIPTION CEILING MOUNTED 173 LEG OPERATION		
GAR				
SCALE	NTS	SHEET	1 OF 1	DWG NO. II-173CL-02



- ① - 1700 TRACK
- ② - 1702 MASTER CARRIER (1738,1750)
- ③ - 1701 SINGLE CARRIER (1737,1749)
- ④ - 1708 HANGING CLAMP
- ⑤ - 1724 SPLICE CLAMP (IF NEEDED)
- ⑦ - EYE-BOLT

(*,*) DENOTES ALTER-NATIVE COMPONENTS

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SIZE	DATE	INSTALLATION		REV
A	01/05/02	INSTRUCTIONS		
DRAWN BY	APPROVED BY	DESCRIPTION 173 SUSPENDED		
GAR		LEG OPERATION		
SCALE	NTS	SHEET	1 OF 1	DWG NO. II-173SL-02



- ① - 1700 TRACK

② - 2917 INLINE MACHINE

③ - 1704 DEAD END (2804)

④ - 1702 MASTER CARRIER (1738,1750)

⑤ - 1701 SINGLE CARRIER (1737,1749)

⑥ - 1707 LAP CLAMP

⑦ - 1708 HANGING CLAMP

⑧ - 1709 END STOP
- ⑨ - OPERATING CABLE

⑩ - 1724 SPLICE CLAMP (IF NEEDED)
- (*,*) DENOTES ALTERNATIVE COMPONENTS

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SIZE	DATE	INSTALLATION INSTRUCTIONS	REV
A	12/22/01		
DRAWN BY	APPROVED BY	DESCRIPTION	
GAR		170 BI-PARTING WITH 2917 MACHINE	
SCALE	NTS	SHEET 1 OF 1	DWG NO. II-170BP2917-98

