

# INSTALLATION INSTRUCTIONS HAND OPERATED MODELS 140 AND 140-R BI-PART OPERATION

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## **II. SUSPENDED TRACK** (bi-part operation)

1. If the track is to be curved in the field, curve it now. Please refer to ADC Form 404 for the curving procedure for this track, using the BT-2 bending tool. If track must be spliced, this should also be done at this time. Please refer to splicing instructions for suspended track systems (DWG A-4224). Make sure that the track sections will not be too large to handle.
2. Attach the live-end and dead-end pulleys to the appropriate ends of the track with the hardware provided. To properly align the live-end pulley make sure that it is on the inside of the curve and that the top wheel of the pulley is closest to the end of the track.

**NOTE: The live-end pulley mounting plate is supplied with two (2) sets of mounting holes to allow the pulley wheels to be reversed allowing the assembly to be mounted at either end of the track system.**

Attach a 1309 end stop through the track in front of the live-end pulley to prevent the curtain from interfering with the pulley's operation.

3. Clamp the two sections of track together at the center lap with the lap clamps and hardware provided. The track section with the live-end pulley should be the "front" (audience side) track at the center over-lap.
4. Insert an equal amount of single carriers into the two (2) track sections. The carrier can be inserted at the open ends of the track at the center overlap. Be sure to attach the 4225 rubber bumpers to the carrier flanges facing the nearest end pulley, these bumpers help to reduce the operating noise of the track system. Refer to ADC form 743 for further information. Insert a master carrier into each side of the track system, making sure that the cord connectors on each master face the inside of the track curves.
5. Install the combination end-stop/cord hook assembly at the center overlap. This device will be used to guide the cord through the overlap. Hanging clamps can also be attached at this time. Spacing for the hanging clamps is 4 feet or less, with additional supports used at curves and the ends of the track.
6. The location of the spindles and idlers varies according to the amount of curve and the curve's radius. The spindles and idlers always mount to the track between the top and middle flange. Refer to ADC form 442 for further information.

#### HARDWARE

1458 SPINDLE A

1459 SPINDLE B

#### TRACK LOCATION

INSIDE CURVE, LIVE-END HALF

INSIDE CURVE, DEAD-END HALF

Track lay-outs featuring a continuous curve require 1458 Spindle B's and 1460-A idlers at the overlap for cord alignment. The large 1407-A lap clamps is also used to provide 4" spacing between the track sections at the overlap.

1460 IDLER

OUTSIDE CURVE, DEAD-END HALF

7. The assembled track can now be raised and mounted in its permanent position.

#### **CORDING THE 140 CURVED TRACK SYSTEM**

1. Position the cord coil under the live-end pulley. Take one end of the coil and thread it up over the top wheel of the live-end pulley, and continue around the inside of the curved track threading the cord through the TOP of the 1458 spindle A's.
2. When the overlap is reached, thread the cord through the combination end stop/cord hook and continue along the inside of the curve. On continuous curve track lay-outs, the cord would pass through the 1460-A idler and 1459 Spindle B's at the overlap.
3. The cord should now be ready to be threaded through the cord connectors of the master carrier on the dead-end half of the track. Do not tighten these connectors at this time.
4. Continue along the inside of the curve of the dead-end half of the track system, threading the cord around the 1459 spindle B's to the dead-end pulley.
5. When the dead-end pulley is reached, run the cord around the pulley wheel and to the outside of the curve. The cord should now line up with the idler wheels on the outside of the dead-end section of the track. Thread the cord around the OUTSIDE of these wheels, to the master carrier of the opposite, (live-end) half of the track system. When the master carrier is reached, attach the cord to the NEAREST cord connector on the master carrier and tighten this connection.
6. Thread the other end of the cable coil through the floor pulley, align the floor pulley with the live-end pulley, and secure the floor pulley to the floor. Continue threading the operating cord up and over the lower wheel of the live-end pulley, then along the inside of the curve of the live-end half of the track system, threading the cord around the ROLLER TUBE of the 1458 spindle A's to the master carrier located on the live-end half of the track system.
7. Insert the end of the cord through the second cord connector of the master carrier and remove the slack from the system. Tighten the cord connector.

8. Slide each master carrier toward the center overlap, as far as they will travel. Tighten the remaining cord connectors. The track is now ready for the curtain installation.

## **II. CEILING MOUNTED TRACK SYSTEMS** (bi-part operation)

1. If the track is to be curved in the field, curve it now. Please refer to ADC Form 404 for the curving procedure for this track, using the BT-2 bending tool. If track must be spliced, this should also be done at this time. Please refer to splicing instructions for suspended track systems (DWG A-4224). Make sure that the track sections will not be too large to handle.
2. Attach the live-end and dead-end pulleys to the appropriate ends of the track with the hardware provided. To properly align the live-end pulley make sure that it is on the inside of the curve and that the top wheel of the pulley is closest to the end of the track.

**NOTE: The live-end pulley mounting plate is supplied with two (2) sets of mounting holes to allow the pulley wheels to be reversed allowing the assembly to be mounted at either end of the track system.**

Attach a 1309 end stop through the track in front of the live-end pulley to prevent the curtain from interfering with the pulley's operation.

3. Ceiling mounted track systems can be attached to the overhead structure one of two ways:
  - TYPE 1.** LOOSELY ATTACH THE CEILING CLAMP'S BASE PLATE TO THE TRACK WITH THE SIDE PRESSURE PLATES PROVIDED. THE CLAMPS CAN BE ATTACHED TO THE TRACK ON THE GROUND AND SLID TO THE PROPER MOUNTING POSITION WHEN THE TRACK IS LIFTED INTO PLACE. ONCE IN POSITION THE BASE PLATE IS FIXED TO THE CEILING USING THE TWO OUTSIDE MOUNTING HOLES. ONCE THE BASE PLATE IS BOLTED TO THE CEILING, THE SIDE PRESSURE PLATE BOLTS ARE TIGHTENED.
  - TYPE 2.** SCRIBE A LINE ON THE CEILING THAT FOLLOWS THE TRACK CENTERLINE. MOUNT THE BASE PLATES TO THE CEILING, CENTERING THEM ON THE LINE. USE THE CENTER, COUNTER SUNK HOLE TO MOUNT THE BASE PLATE. LIFT TRACK INTO POSITION AND SECURE IT TO THE CEILING CLAMP USING THE SIDE PRESSURE PLATES PROVIDED.
4. With the track secured to the overhead structure, insert an equal amount of single carriers into the two (2) track sections. The carrier can be inserted at the open ends of the track at the center overlap. Be sure to attach the 4225 rubber bumpers to the

carrier flanges facing the nearest end pulley, these bumpers help to reduce the operating noise of the track system. Refer to ADC form 743 for further information. Insert a master carrier into each side of the track system, making sure that the cord connectors on each master face the inside of the track curves.

5. Install the combination end-stop/cord hook assembly at the center overlap. This device will be used to guide the cord through the overlap.
6. The location of the spindles and idlers varies according to the amount of curve and the curve's radius. The spindles and idlers always mount to the track between the top and middle flange. Refer to ADC form 442 for further information.

HARDWARE

1458 SPINDLE A

1459 SPINDLE B

TRACK LOCATION

INSIDE CURVE, LIVE-END HALF

INSIDE CURVE, DEAD-END HALF

**Track lay-outs featuring a continuous curve require 1458 Spindle B's and 1460-A idlers at the overlap for cord alignment. Note that a wider overlap is required for these devices.**

1460 IDLER

OUTSIDE CURVE, DEAD-END HALF

**CORDING THE 140 CURVED TRACK SYSTEM**

1. Position the cord coil under the live-end pulley. Take one end of the coil and thread it up over the top wheel of the live-end pulley, and continue around the inside of the curved track threading the cord through the TOP of the 1458 spindle A's.
2. When the overlap is reached, thread the cord through the combination end stop/cord hook and continue along the inside of the curve. On continuous curve track lay-outs, the cord would pass through the 1460-A idler and 1459 Spindle B's at the overlap.
3. The cord should now be ready to be threaded through the cord connectors of the master carrier on the dead-end half of the track. Do not tighten these connectors at this time.
4. Continue along the inside of the curve of the dead-end half of the track system, threading the cord around the 1459 spindle B's to the dead-end pulley.
5. When the dead-end pulley is reached, run the cord around the pulley wheel and to the outside of the curve. The cord should now line up with the idler wheels on the outside of the dead-end section of the track. Thread the cord around the OUTSIDE of these wheels, to the master carrier of the opposite, (live-end) half of the track system. When the master carrier is reached, attach the cord to the NEAREST cord connector on the master carrier and tighten this connection.

6. Thread the other end of the cable coil through the floor pulley, align the floor pulley with the live-end pulley, and secure the floor pulley to the floor. Continue threading the operating cord up and over the lower wheel of the live-end pulley, then along the inside of the curve of the live-end half of the track system, threading the cord around the ROLLER TUBE of the 1458 spindle A's to the master carrier located on the live-end half of the track system.
7. Insert the end of the cord through the second cord connector of the master carrier and remove the slack from the system. Tighten the cord connector.
8. Slide each master carrier toward the center overlap, as far as they will travel. Tighten the remaining cord connectors. The track is now ready for the curtain installation.

### **NOTES**

- THE MAXIMUM DISTANCE BETWEEN TRACK SUPPORTS SHOULD NOT EXCEED 4'. ADDITIONAL SUPPORTS SHOULD BE ADDED AT CURVES, SPLICES AND STACK AREAS.
- LIVE-END AND DEAD-END PULLEYS MUST BE ANCHORED FIRMLY TO THE TRACK.
- SUSPENDED SYSTEMS SHOULD HAVE SUPPORT LINES ATTACHED AT BOTH ENDS OF THE TRACK.
- THE DISTANCE BETWEEN CARRIERS SHOULD NOT EXCEED 1 FOOT.
- SUSPENDED, CURVED TRACK SHOULD BE SUPPORTED BY A 1 1/4" PIPE BACK BONE.
- PROPERLY INSTALLED TRACK SHOULD ALLOW THE CURTAIN TO TRAVERSE WITHOUT CAUSING ANY NOTICEABLE CHANNEL DEFLECTION.

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