



ASHWORTH ENGINEERING

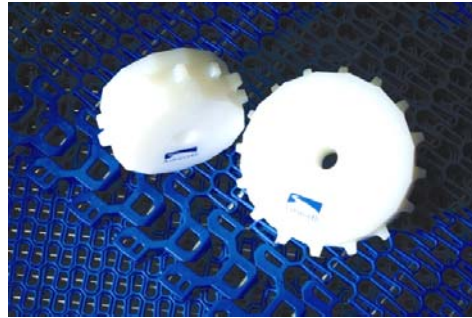
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PRODUCT TECHNICAL BULLETIN

THE ADVANTAGE 120 & 200

ASSEMBLY INSTRUCTIONS

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BEFORE INSTALLING THE BELT

- ◆ Care should be used in uncrating to prevent damage. If damage occurs, remove the affected sections of belt before proceeding.
- ◆ Tools required to connect and separate belt sections:
 - Advantage belt tool or a small flat blade screwdriver
- ◆ Wear gloves and eye protection while joining or separating sections, and always apply force to belt components in a direction away from your body. Always follow safety procedures mandated by your company’s safety policy.

INSTALLING DRIVE COMPONENTS

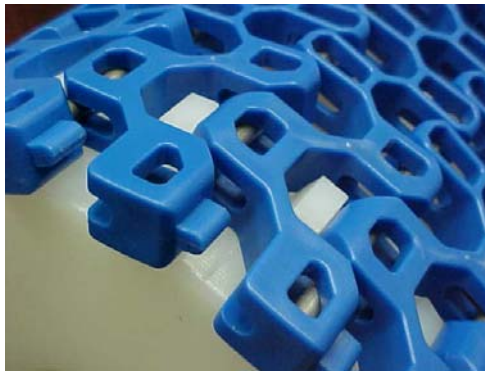
Install sprockets only on the drive shaft, and only at the outer edges of the belt. Plain idlers should be placed between the sprockets at 8” to 16” spacing. Make sure the sprockets are aligned with each other and keyed to the shaft. The drive direction should be indicated on the sprockets, but if not, the curved faces of the sprocket teeth must be facing in the direction of belt travel. Start with the center of the sprocket approximately 1¼” (Advantage 120) or 1 ¾” (Advantage 200) inward from the outside of the belt. Once the belt is installed, make sure the sprocket teeth are centered on the driving lobes of the links. Lock sprockets and idlers in place with set screws or split locking shaft collars (not supplied).

Use flanged idlers at the belt edges at the tail end and take-up, except for idlers that contact the face of a belt with guard edges. In those cases, use plain idlers located to the inside of the guard edges. Allow approximately ¼” clearance between the flange and the belt edge. Plain idlers should be placed between the flanged idlers at 8” to 16” spacing. Lock idlers in place with set screws or split locking shaft collars (recommended).

It is important to monitor the position of the sprockets and idlers after the belt is started. The belt may initially drift to a “natural” position as it runs. This should be allowed as much as system clearances permit. Adjust the position of the sprockets as necessary to keep the teeth centered on the driving lobe. Adjust edge idlers to maintain clearances.

INSTALLING THE BELT

For standard Advantage belts, there is no top or bottom side to the belt - either side can be up. However, if the belt has guard edges they must be on the top surface of the belt. The belt can travel in only one direction, so take care to install the belt in the proper direction as shown. The curved face of the sprocket tooth should contact the radius of the center lobe of the link as shown in the illustrations. The drive direction may also be indicated on the link.



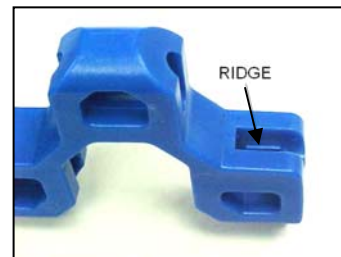
ASSEMBLY INSTRUCTIONS

JOINING AND SEPARATING THE BELT

Joining and separating the belt can be done fairly simply with a small screwdriver. There is a small retaining ridge that prevents the rod from moving from the operating position to the entry hole. The rod must be moved around the end of this barrier for insertion or removal.

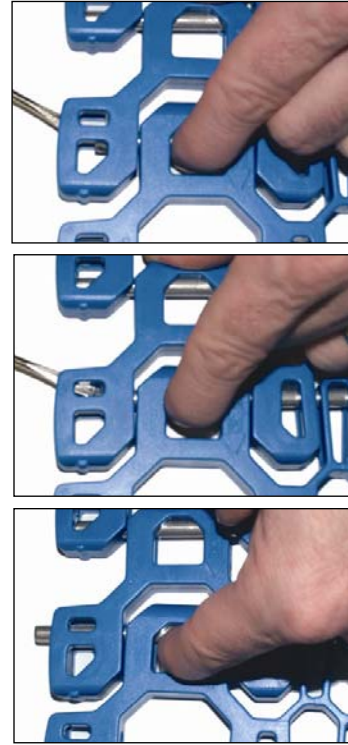
ROD INSERTION

- Align the links and modules and insert the rod. It may be helpful to place a piece of cardboard under the belt ends to support the modules in the aligned position. Make sure the far end of the rod does not go through the opening on the opposite side.
- Hold the edge of the belt and push inward and slightly forward on the rod until the end of the rod is past the end of the retaining ridge. The belt will need to stretch slightly across the width to allow this, so make sure the opposite side of the belt is not against a guide or other obstacle.
- When the rod passes the end of the ridge, it will move down into the operating position. Release the end of the rod. The rod will be pulled back under the retaining ridge when the belt springs back to its normal width.



ROD REMOVAL

- To separate the belt, pull the rod upward against the retaining ridge while pushing inward on the end of the rod.
- When the end of the rod moves past the retaining ridge, it will slide up into the entry hole.
- Push the rod out through the entry hole. It may be helpful to push on the opposite end of the rod with the screwdriver.



ASSEMBLY INSTRUCTIONS

FIRE WARNING *Safety Precautions for Plastic Belting*

Most plastic belting, including some Ashworth belts, contains thermoplastic components that can burn. If exposed to an open flame or to temperatures above stated specifications, belts may decompose and emit toxic fumes. Do not expose plastic belts to extreme temperatures or to an open flame. Additionally, these belts should not be used following any process, such as an oven, where products could be ignited before being placed on the belt. Refer to the appropriate MSDS (Material Safety Data Sheet) for other precautions and emergency response information.

Reference: *Product Technical Bulletin "021 Conveyor Design Guidelines".*

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