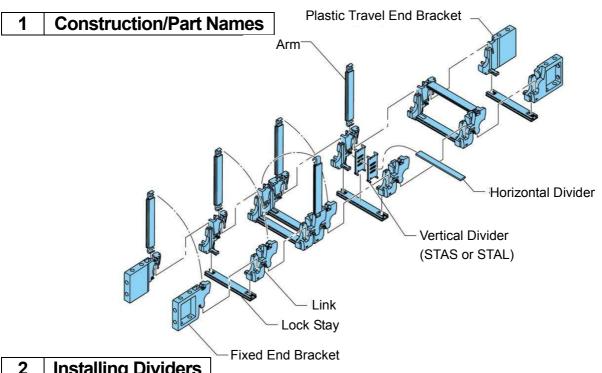


Tsubaki Instruction Manual **Cableveyor®**

TKR20H28



Installing Dividers

Dividers are installed when inserting cables and hoses.

Follow the steps below with the arms opened (only the lock stays attached) and install the vertical dividers onto the inner

circumterence of the lock stays.	
1) Hook the catching part on one side of the divider to the lock stay.	2) With the catching part hooked, push the catching part on the other side of the divider onto the lock stay to
lock stay.	install.

There are two types of vertical dividers **STAS STAL** Sliding divider for DSA Locking divider for DSA Identifying hole (1) Identifying hole (2)

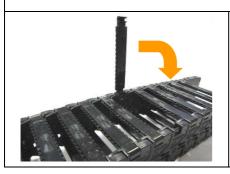
Dividers are installed every 2 links. Check the amount that is installed in any one location. Note:

Installing vertical dividers continuously onto neighboring lock stays will cause interference when the Cableveyor bends. Ensure there is 2 or more links of space (in the direction of the pitch) between dividers.

3 Attaching Arms

1) Push the arm down in the direction of the arrow and attach to the link.

2) Ensure that it is firmly attached.







4 Removing Arms

 Insert a flat head screwdriver into the space between the arm and the lock to release the lock.

Caution: Gently lift up the screwdriver if the arm does not release

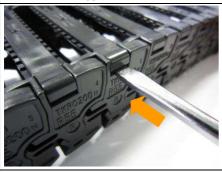
and lift up.

Caution: Forcing the screwdriver into

the space may damage the link bar.

2) Open the arm and rotate until it is directly vertical.

3) Pull the arm laterally to remove.







Note: Use a screwdriver with a 4mm or smaller tip.

5 Removing Lock Stays

 Insert a flat head screwdriver into the indentation on the lock stay and twist lightly to slightly lift up the lock stay.

Caution: Using excessive force may break the lock stay and cause it to fly apart.

2) Repeat 1) on the other side of the link (along the length of the lock stay) to lift the lock stay up fully.

3) Remove the lock stay by hand.





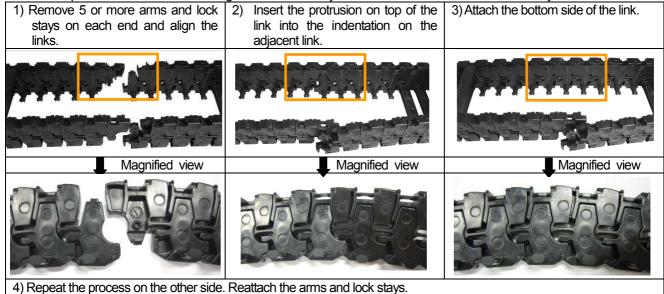


Note: Use a screwdriver with a 4mm or smaller tip.

Connecting Cableveyors and Brackets 6

Long length formations (over 100 links) are generally shipped disassembled. Connect the Cableveyor as follows.

Refer to the previous sections for removing arms and lock stays. Brackets are attached in the same way.



Disassembling Cableveyors and Removing Brackets

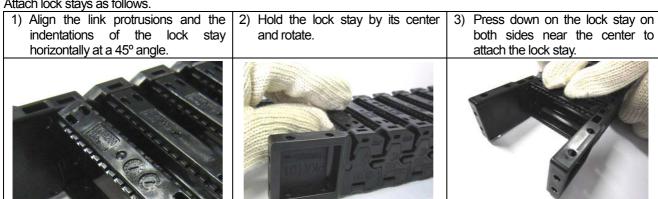
Disassemble the Cableveyor to the required length as follows. The following applies to removing brackets as well.

1) Remove the arms and lock stays from 5 or more 2) Twist the screwdriver in the direction of the arrow to remove links on both ends of the area you wish to the link disassemble, and insert a flat head screwdriver into the hole on the bottom (inner circumference) of the link.

Note: Use a screwdriver with a 4mm or smaller tip.

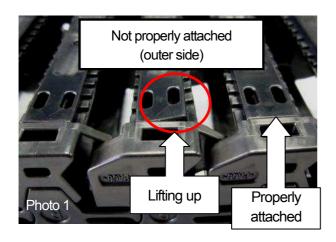
Attaching Lock Stays

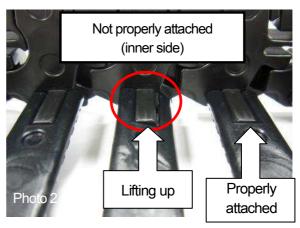
Attach lock stays as follows.



1. Ensure that the lock stay is firmly attached to the link stay.

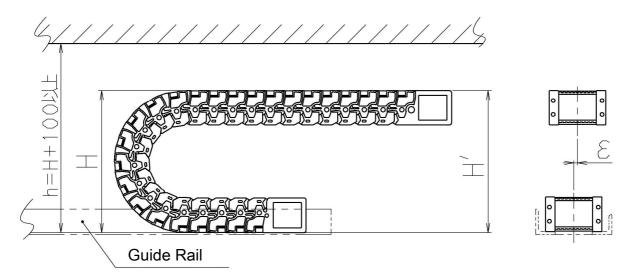
- The lock stay may come loose and fall off during operation if not firmly attached.
- 2. When using vertical dividers, ensure that the lock stay is firmly attached to the link stay after attaching the divider.
- 3. The lock stay may lift up as shown in photos 1 and 2 below if it is not properly attached. Please use caution.





9 Caution

Depending on the application, pretension and sag may appear in the free span. However, if selected within Tsubaki's performance graph then there will be no problems with use.



- 1. Machine travel end installation height (H') should be Cableveyor height H + (10-30).
- 2. Cableveyor space height (h) is H + 100.
- 3. Install a guide rail.
- 4. The difference (ε) in the travel end and fixed end bracket attachment sides should be less than 4mm.
- 5. Use travel cables/hoses with excellent bending and wear properties.
- 6. Avoid using cables/hoses with wire braiding, as they are easily damaged.
- Cables/hoses wear easily when used stacked onto of one another. Lay horizontally or use horizontal dividers
- 8. Set cables and hoses in the Cableveyor so that they have some play, and clamp both ends.
- 9. Remove foreign objects from guide rails, as they may cause damage.
- 10. Dividers are shipped unassembled and will require assembly when installing the Cableveyor.
- Any unevenness on the plastic bracket installation surface may damage the bracket. Ensure that the installation surface is as smooth as possible. Over-tightening the installation bolts can also damage the plastic bracket. Please use the following recommended tightening torque.

Bolt Size	Recommended Tightening Torque
M4	0.6 N/m

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