



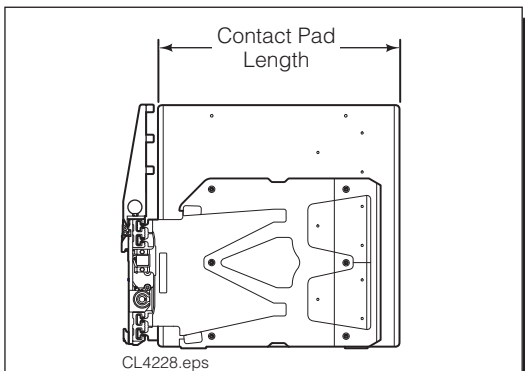
Installation Instructions

D and E-Series Carton Clamp Contact Pad Camber Adjustment

This sheet provides case load handling troubleshooting and contact pad camber information for D and E-Series Carton Clamps. The back of the sheet describes how to measure contact pad camber and install adjustment shims.

IMPORTANT: D and E-Series Carton Clamps are designed to provide a well distributed clamp force for all carton case load handling applications. Before adjusting contact pad camber to solve handling problems, make sure the Clamp is being used correctly and is not damaged. Use the Troubleshooting procedure shown and, if necessary, adjust the contact pad camber using a Shim Kit.

Shim Kits contain four 1/16 in. (1.6 mm) middle shims and four 1/8 in. (3.2 mm) top or bottom shims.



SHIM KIT PART NO.	CONTACT PAD LENGTHS
217490	39.4 – 41.3 in. (1000 – 1050 mm)
3001710	41.4 – 43.3 in. (1051 – 1100 mm)
3001713	43.4 – 45.2 in. (1101 – 1149 mm)
217491	45.3 – 47.2 in. (1150 – 1200 mm)
3001716	47.3 – 49.2 in. (1201 – 1250 mm)
3001719	49.3 – 51.1 in. (1251 – 1299 mm)
217492	51.2 – 53.1 in. (1300 – 1350 mm)
3001722	53.2 – 55.1 in. (1351 – 1400 mm)

TROUBLESHOOTING

Front stack of load tilts out:

- 1 Position load against backrest.
- 2 Check for bent pads or stabilizers.
- 3 Position load center between pad pivot and backrest.

Lower tier of load bridges down or slides out:

- 1 Position bottom of load even with bottom of pads.
- 2 Check for bent pads.
- 3 Check for worn lower pad surfaces.
- 4 Check hydraulics for too low supply pressure.
- 5 Add or increase *positive* camber.

Lower tier of load is creased:

- 1 Clamp load squarely between pads.
- 2 Position bottom of load even with bottom of pads.
- 3 Check for bent pads.
- 4 Check hydraulics for too high supply pressure.
- 5 Add or increase *negative* camber.

TYPICAL PAD CAMBER FOR HANDLING CARTON CASE LOADS

PRODUCT	CAMBER	Front View – Pads
CANNED / BOTTLED / DENSE CASE GOODS	Neutral-to-Positive	
SOFT CASE GOODS	Neutral-to-Negative	
APPLIANCE / LARGE CASE GOODS	Neutral-to-Negative	
UNKNOWN LOADS	Start with neutral, look for creases and adjust camber as required.	

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MEASURING AND ADJUSTING CONTACT PAD CAMBER

- 1 Position the arms at the width of the frame. Lower the clamp so the pads just touch the floor.
 - 2 Measure the distance between the pad bottom centers (in line with the pivot pins), and 30 in. (73 cm) above the pad bottom centers as shown. The difference between the two measurements is the pad camber:
Positive Camber: Top of pads farther apart than bottom.
Neutral Camber: Pads equal distance apart.
Negative Camber: Bottom of pads farther apart than top.
 - 3 Determine the correct camber needed for the case loads being handled (See Chart on front of sheet).
 - 4 Loosen the contact pad capscrews and nuts. Shims are designed to slip into place between the pad and stabilizer without removing the capscrews and nuts. For reassembly, tighten the capscrews to 50 ft.-lbs. (65 Nm).
 - 5 Install shims as required to obtain a minimum or maximum camber adjustment. Installing shims at the pad bottom and middle provide positive camber. Installing shims at the pad top and middle provide negative camber.
- CAUTION:** Use an equal number of shims on each contact pad. Pad camber must be the same on each side of the Clamp for proper load handling.

