

LL-401 lens installation procedure

Oct. 29, 2002
Hitachi, Ltd. DMD

1. Remove (3) screws to remove the front bezel



(1) Left



(2) Right



(3) Bottom

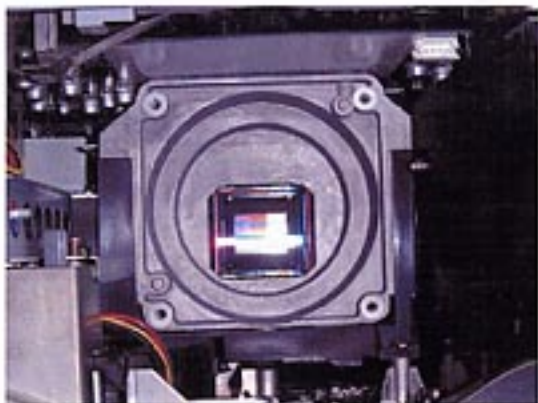


(4) Front bezel off

2. Disconnect wires



3. Remove (4) screws to remove the projection lens



(5) Projection Lens off

4. LL-401 lens mount and assembly



5. Lens setting change

As Lens f value is different against a standard lens, digital keystone parameters are needed to change. Turn on the projector and open MENU and select OPTION.



While the above OSD is on, press and hold "LEFT" and "RESET" key on the top case at the same time (recommended sequence is press "LEFT" and add "RESET"). You will see the following SERVICE menu.



Go down to LENS and press "RIGHT" to select OPTION.



6. Appearance difference



(6) Original



(7) With LL-401 lens

LL-401 for CP-X885W, CP-X880W and CP-X870W

7. Lens specs comparison

ITEM		SPECS.		NOTE
		Original	LL-401	
F No.		1.7 ~ 2.4	1.7 ~ 2.1	
Focal Length		30.5 ~ 45.8mm	49.1 ~ 63.8mm	Power Focus
Zoom Ratio		1.5	1.3	Power Zoom
Keystone Correction		10 : 0		Fixed upward shift
Focus Range		0.9m ~ 9.3m (W) 1.3 ~ 13.9m (T)	2.0m ~ 14.9m (W) 2.6m ~ 19.3m (T)	
Image Size		30" ~ 300"	40" ~ 300"	
Image Distance	30"	0.9 ~ 1.3m	N/A	<ul style="list-style-type: none"> • Tolerance +/-10% • Screen size is diagonal.
	40"	1.2 ~ 1.8m	2.0 ~ 2.6m	
	60"	1.5 ~ 2.3m	3.0 ~ 3.9m	
	70"	2.1 ~ 3.2m	3.5 ~ 4.5m	
	80"	2.4 ~ 3.7m	4.0 ~ 5.2m	
	100"	3.0 ~ 4.6m	4.9 ~ 6.4m	
	120"	3.7 ~ 5.5m	6.0 ~ 7.7m	
	150"	4.6 ~ 6.9m	7.4 ~ 9.7m	
	200"	6.2 ~ 9.2m	9.9 ~ 12.9m	
	250"	7.7 ~ 11.6m	12.4 ~ 16.1m	
300"	9.3 ~ 13.9m	14.9 ~ 19.3m		