

AIO (ALL IN ONE) LED Pixel Card Handling, Installation, and Replacement Process

Models:

LD-A1381F (138" / 1.5mm)

LD-A1651F (165" / 1.9mm)

AIO Pixel Cards

The AIO pixel cards are hard-connected on the 3-in-1 board by connectors and held in place by magnets. Align the pixel card along the bottom edge and use the appropriate amount of force during installation. Do not forcefully install the pixel cards since it may cause physical damage to it and/or the surrounding pixel cards.

Every pixel card has a location number on the back (Figure 1) and it refers to the installation location on the corresponding 3-in-1 boards of the display. The pixel cards should be installed in their corresponding locations for best results (1-200 for the LD-A138F and 1-288 for the LD-A165F). This ensures the pixel cards are in the exact location at the time of calibration, resulting in better image quality.

NOTE: Pixel cards 201-220 are the spares included with the LD-A138F and 289-317 are the spares included with the LD-A165F. Also included with the kit are spare LED pixels and ICs that are needed to repair any damaged pixel cards during the installation process.

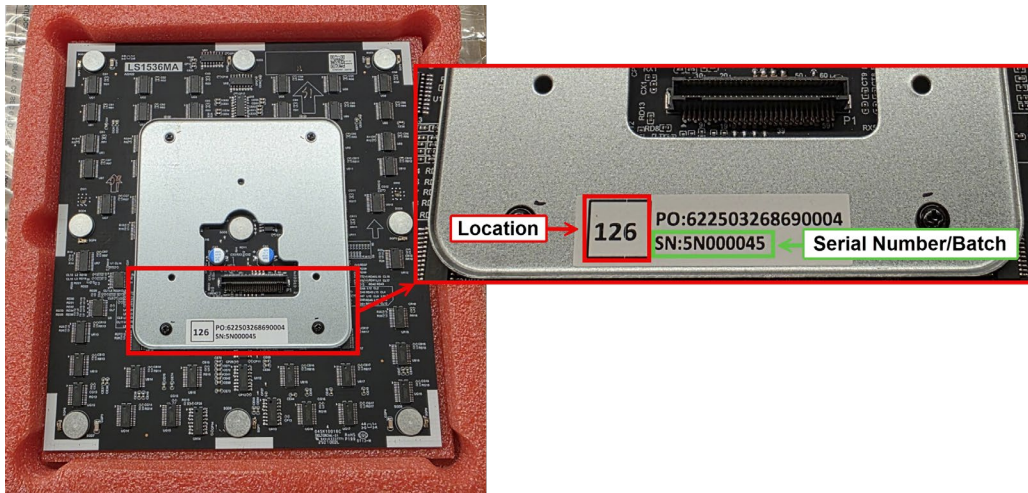
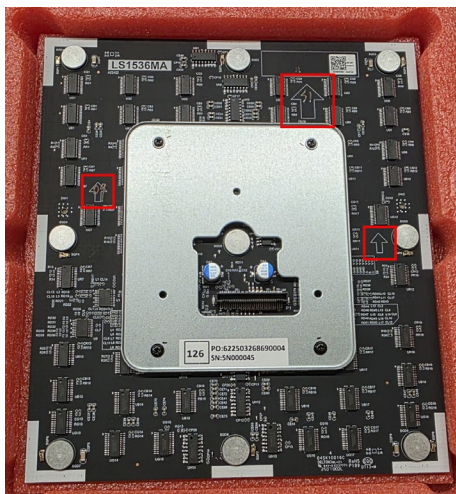


Figure 1

The pixel cards must be installed with the arrows on the back side pointing up.



Pixel Card Handling

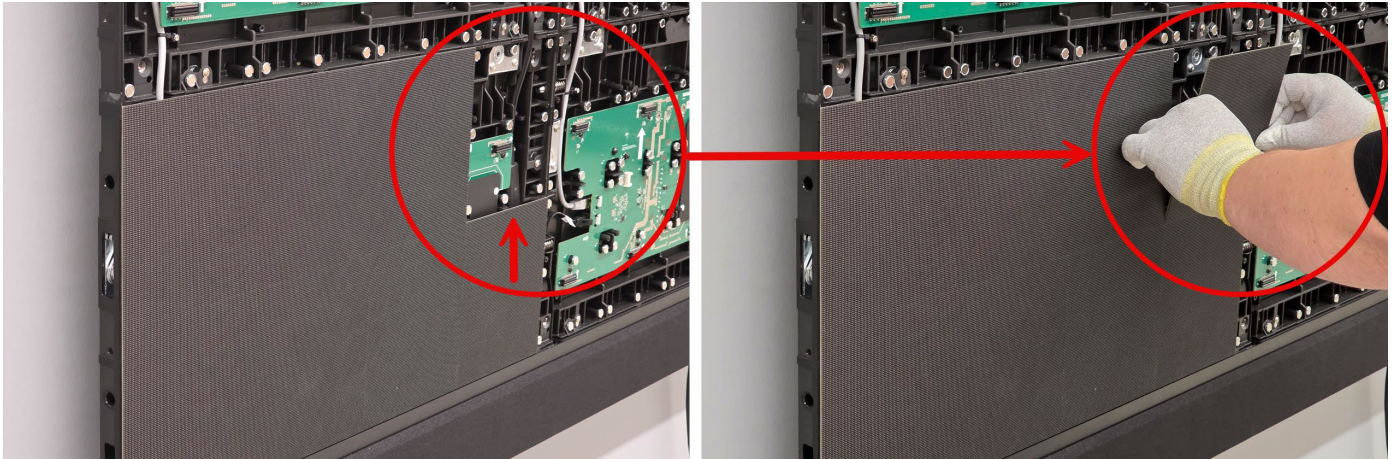
Please use the gloves included with the kit when handling the pixel cards during the installation process. The pixel cards are fragile and need to be handled with extreme caution while unboxing and installing them on the display. When installing the pixel cards, pay attention not to damage them against the other pixel cards already installed or other objects.

NOTE: If any damaged pixel cards are encountered, please review and follow the AIO (ALL IN ONE) LED Pixel Card Repair RMA Process.

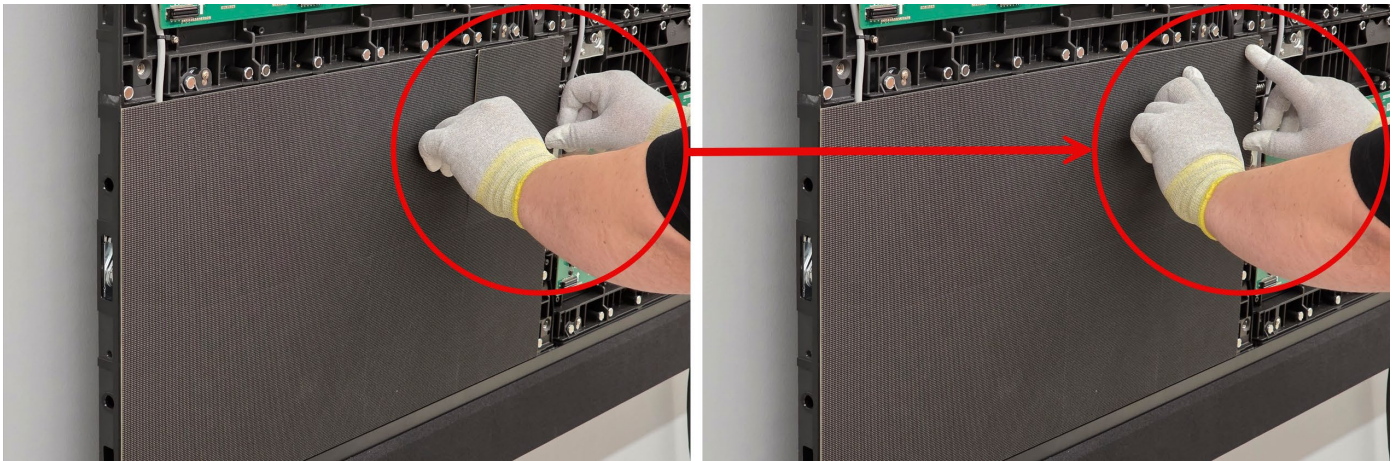


AIO Pixel Card Installation Process

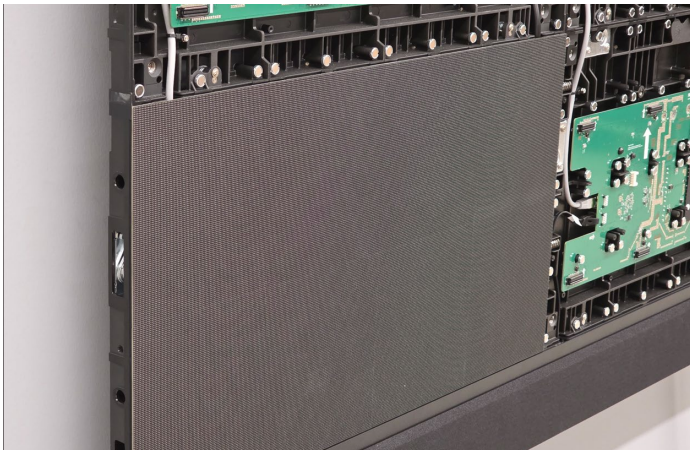
Carefully Align the bottom edge of the pixel card along the top edge of the already installed pixel cards.



Move it into position over the connector press lightly until it is properly seated.



The pixel card should be level with the other pixel cards already installed.



Pixel Card Installation Method 1

First recommended pixel card installation method is from the **bottom up** starting from column A and working your way to the right through column B, C, D and E on the LD-A138F and B, C, D, E, and F on the LD-A165F as outlined in the diagrams below:

LD-A138F

1	2	3	4	41	42	43	44	81	82	83	84	121	122	123	124	161	162	163	164
5	6	7	8	45	46	47	48	85	86	87	88	125	126	127	128	165	166	167	168
9	10	11	12	49	50	51	52	89	90	91	92	129	130	131	132	169	170	171	172
13	14	15	16	53	54	55	56	93	94	95	96	133	134	135	136	173	174	175	176
17	18	19	20	57	58	59	60	97	98	99	100	137	138	139	140	177	178	179	180
21	22	23	24	61	62	63	64	101	102	103	104	141	142	143	144	181	182	183	184
25	26	27	28	65	66	67	68	105	106	107	108	145	146	147	148	185	186	187	188
29	30	31	32	69	70	71	72	109	110	111	112	149	150	151	152	189	190	191	192
33	34	35	36	73	74	75	76	113	114	115	116	153	154	155	156	193	194	195	196
37	38	39	40	77	78	79	80	117	118	119	120	157	158	159	160	197	198	199	200
A				B				C				D				E			

LD-A165F

1	2	3	4	49	50	51	52	97	98	99	100	145	146	147	148	193	194	195	196	241	242	243	244
5	6	7	8	53	54	55	56	101	102	103	104	149	150	151	152	197	198	199	200	245	246	247	248
9	10	11	12	57	58	59	60	105	106	107	108	153	154	155	156	201	202	203	204	249	250	251	252
13	14	15	16	61	62	63	64	109	110	111	112	157	158	159	160	205	206	207	208	253	254	255	256
17	18	19	20	65	66	67	68	113	114	115	116	161	162	163	164	209	210	211	212	257	258	259	260
21	22	23	24	69	70	71	72	117	118	119	120	165	166	167	168	213	214	215	216	261	262	263	264
25	26	27	28	73	74	75	76	121	122	123	124	169	170	171	172	217	218	219	220	265	266	267	268
29	30	31	32	77	78	79	80	125	126	127	128	173	174	175	176	221	222	223	224	269	270	271	272
33	34	35	36	81	82	83	84	129	130	131	132	177	178	179	180	225	226	227	228	273	274	275	276
37	38	39	40	85	86	87	88	133	134	135	136	181	182	183	184	229	230	231	232	277	278	279	280
41	42	43	44	89	90	91	92	137	138	139	140	185	186	187	188	233	234	235	236	281	282	283	284
45	46	47	48	93	94	95	96	141	142	143	144	189	190	191	192	237	238	239	240	285	286	287	288
A				B				C				D				E				F			

Pixel Card Installation Method 2

The second recommended pixel card installation method is also from the **bottom up** but starting with row 1 from left to right and working your way upward through row 2, 3, 4 and 5 on the LD-A138F and 2, 3, 4, 5, and 6 on the LD-A165F as outlined in the diagrams below:

LD-A138F

5	1	2	3	4	41	42	43	44	81	82	83	84	121	122	123	124	161	162	163	164
	5	6	7	8	45	46	47	48	85	86	87	88	125	126	127	128	165	166	167	168
4	9	10	11	12	49	50	51	52	89	90	91	92	129	130	131	132	169	170	171	172
	13	14	15	16	53	54	55	56	93	94	95	96	133	134	135	136	173	174	175	176
3	17	18	19	20	57	58	59	60	97	98	99	100	137	138	139	140	177	178	179	180
	21	22	23	24	61	62	63	64	101	102	103	104	141	142	143	144	181	182	183	184
2	25	26	27	28	65	66	67	68	105	106	107	108	145	146	147	148	185	186	187	188
	29	30	31	32	69	70	71	72	109	110	111	112	149	150	151	152	189	190	191	192
1	33	34	35	36	73	74	75	76	113	114	115	116	153	154	155	156	193	194	195	196
	37	38	39	40	77	78	79	80	117	118	119	120	157	158	159	160	197	198	199	200
	A				B				C				D				E			

LD-A165F

6	1	2	3	4	49	50	51	52	97	98	99	100	145	146	147	148	193	194	195	196	241	242	243	244
	5	6	7	8	53	54	55	56	101	102	103	104	149	150	151	152	197	198	199	200	245	246	247	248
5	9	10	11	12	57	58	59	60	105	106	107	108	153	154	155	156	201	202	203	204	249	250	251	252
	13	14	15	16	61	62	63	64	109	110	111	112	157	158	159	160	205	206	207	208	253	254	255	256
4	17	18	19	20	65	66	67	68	113	114	115	116	161	162	163	164	209	210	211	212	257	258	259	260
	21	22	23	24	69	70	71	72	117	118	119	120	165	166	167	168	213	214	215	216	261	262	263	264
3	25	26	27	28	73	74	75	76	121	122	123	124	169	170	171	172	217	218	219	220	265	266	267	268
	29	30	31	32	77	78	79	80	125	126	127	128	173	174	175	176	221	222	223	224	269	270	271	272
2	33	34	35	36	81	82	83	84	129	130	131	132	177	178	179	180	225	226	227	228	273	274	275	276
	37	38	39	40	85	86	87	88	133	134	135	136	181	182	183	184	229	230	231	232	277	278	279	280
1	41	42	43	44	89	90	91	92	137	138	139	140	185	186	187	188	233	234	235	236	281	282	283	284
	45	46	47	48	93	94	95	96	141	142	143	144	189	190	191	192	237	238	239	240	285	286	287	288
	A				B				C				D				E				F			

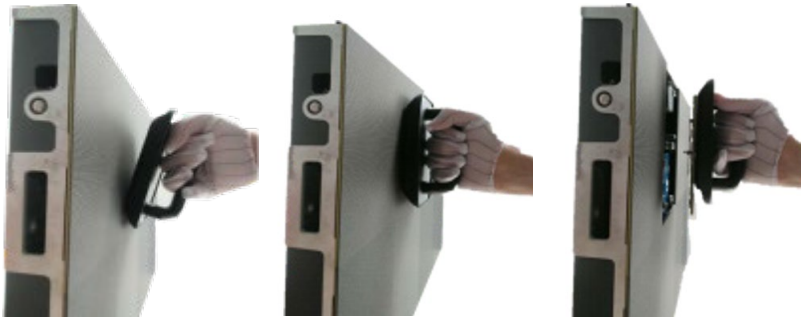
Removing Pixel Card from the Display

Locate the malfunctioning/damaged pixel card and remove it with the pixel card removal tool (front maintenance tool).

NOTE: Turning the display off and allowing it to cool down before removing and replacing pixel cards is recommended.



Align the bottom curved surface of the front maintenance tool along the bottom edge of the pixel card and slowly transition it upward. After absorbing the pixel card, carefully remove it outward in a parallel direction to avoid damaging the surrounding pixel cards.



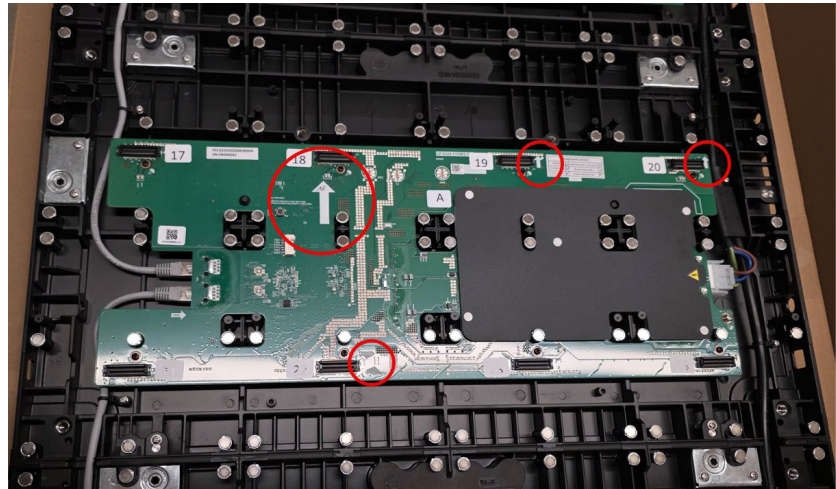
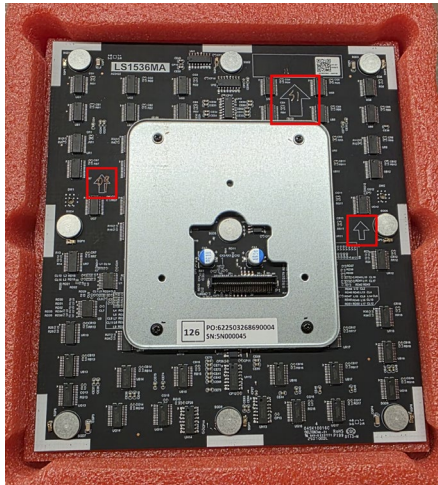
Firmly hold the pixel card with full palm and slowly remove the front maintenance tool.



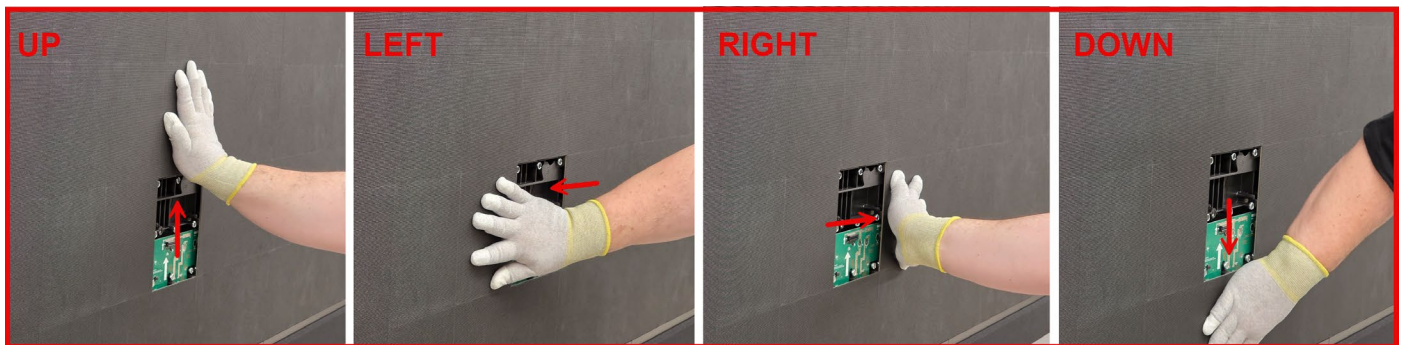
Replacing a Pixel Card in the Display

When installing the replacement/repaired pixel card, the arrow on the back side of the pixel card should be in the same direction of the arrow on the 3-in-1 board.

NOTE: The connector is located on the lower half of the pixel card.

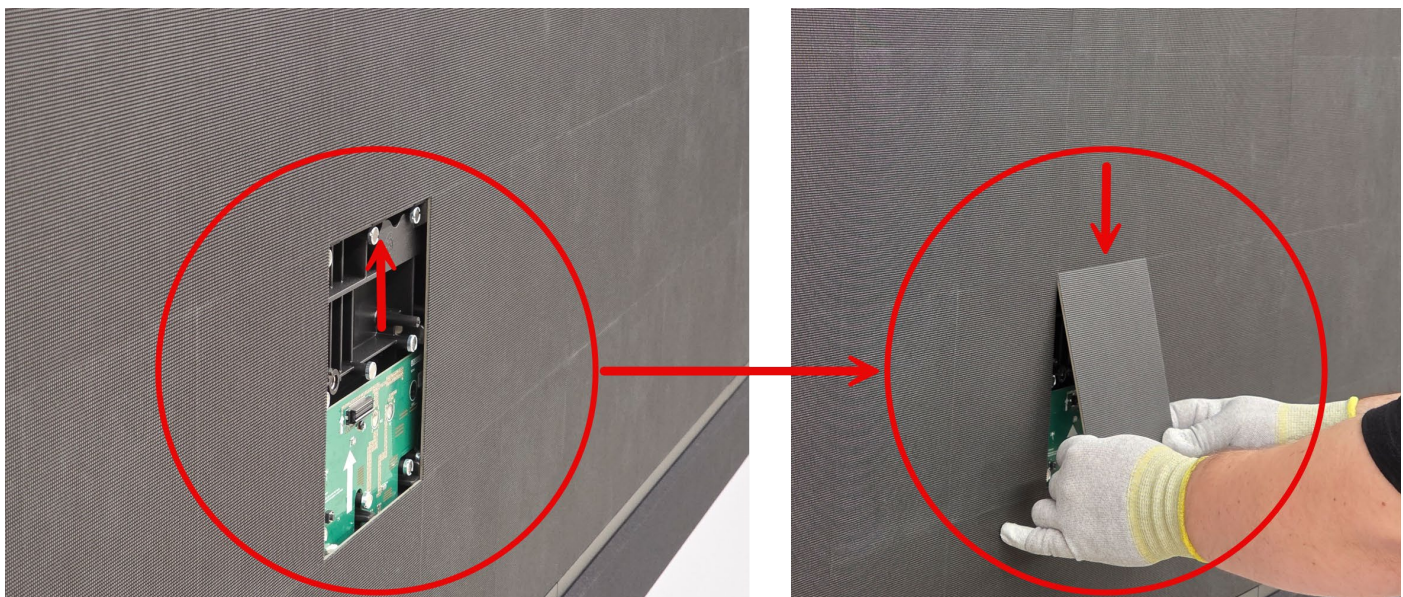


Carefully push the top, left, right and bottom pixel cards away from the open pixel card location.

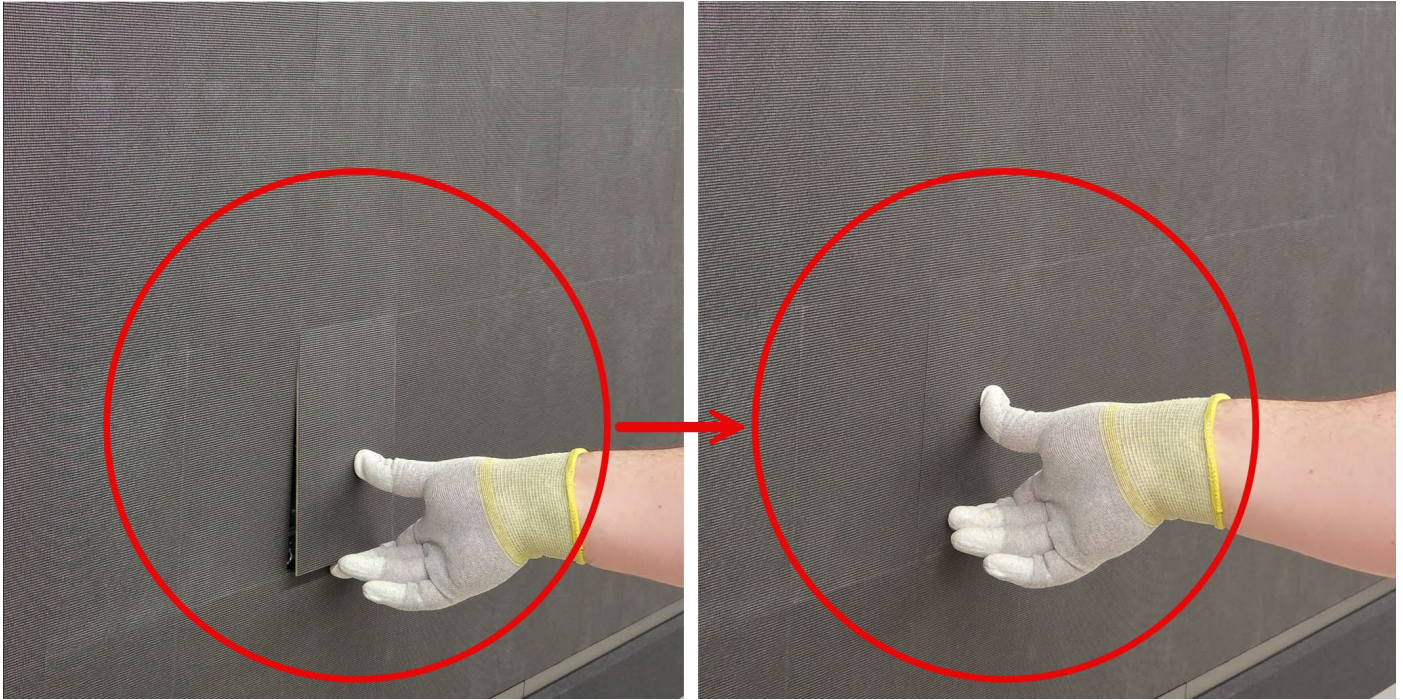


Carefully Align the top edge of the pixel card along the bottom edge of the already installed pixel card.

NOTE: Occasionally the reverse may work better option.



Move it into position over the connector press lightly until it is properly seated.



The pixel card should be level with the other pixel cards already installed.



Pixel card replacement complete.

The damaged pixel cards can be sent for repair, please review and follow the AIO (ALL IN ONE) LED Pixel Card Repair RMA Process.