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Installation Instructions For Aurora LED Accent Housing 3 Round & Square Trimless AH3-ARE3-RGB & AH3-ASE3-RGB

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General Information

Fixture must be installed by a qualified electrician (check with local and national codes for proper installation). To prevent electrical shock, disconnect electrical supply before installation or servicing. Compatible only with traditional, level 5 surface finishing, not self-leveling, PVA primer systems. **Not for use in wood or tile ceilings.**

WORKFLOW CHART



ELECTRICAL CONTRACTOR

1. Locate and mount housing
2. Screw and lock-in housing
3. Connect wires in housing



DRYWALL CONTRACTOR

1. Install and cut drywall around housing.



ELECTRICAL CONTRACTOR

1. Adjust plaster flange frame and tighten wing nuts.
2. Connect the MR16 wiring to the plaster plate.
3. Screw plaster plate into housing.
4. Test MR16.



DRYWALL CONTRACTOR

1. Plaster, sand & paint.
2. Clean aperture with clean damp towel.



ELECTRICAL CONTRACTOR

1. Clean aperture with clean damp towel, where the drywall contractor missed.
2. Adjust pan rotation ring and aim lamp. You're done!



Important

Scan with your mobile device to watch the installation video or visit:

www.purelighting.com/aurora-install

Importante

Escanear con el dispositivo móvil para ver el video de instalación o visite:

www.purelighting.com/aurora-install

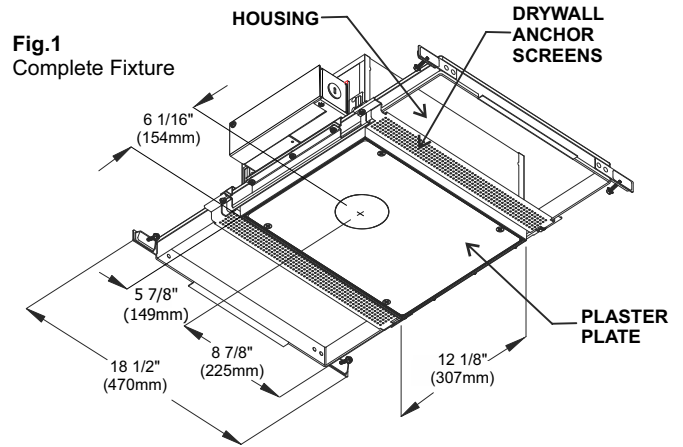


Fig.1 Complete Fixture

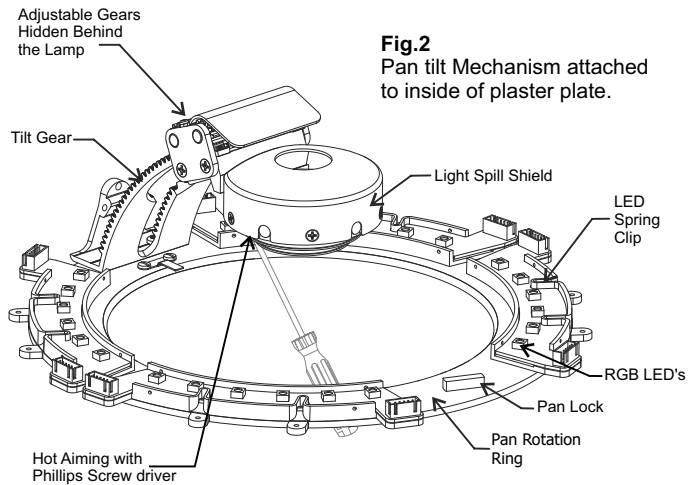


Fig.2 Pan tilt Mechanism attached to inside of plaster plate.

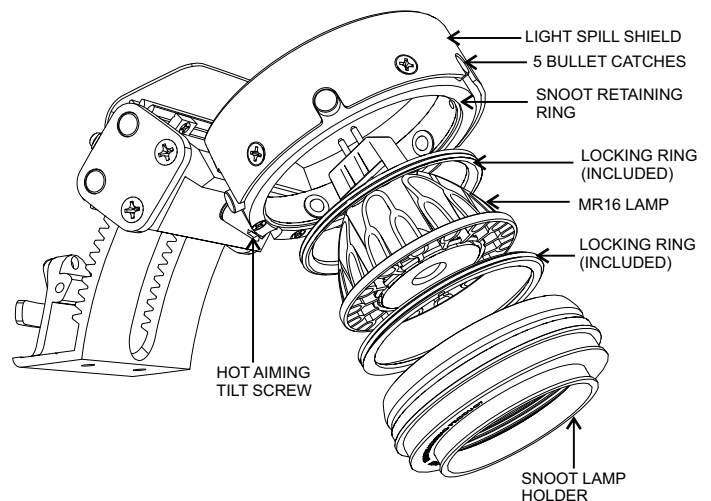
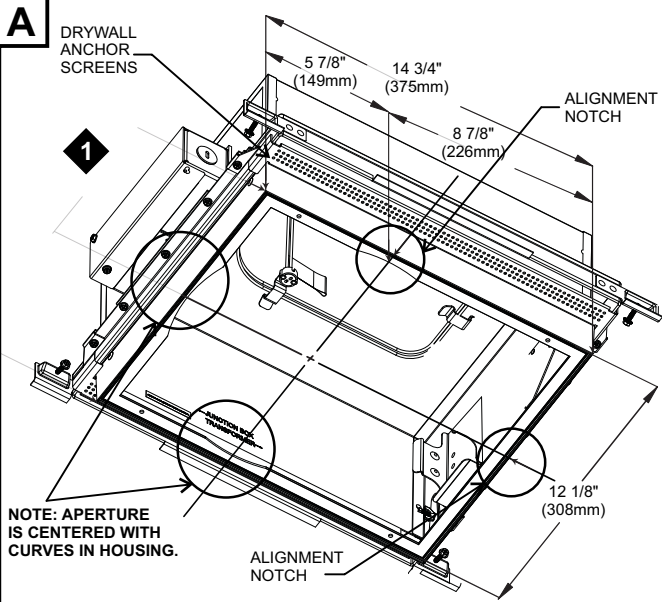


Fig.3 Snoot Assembly

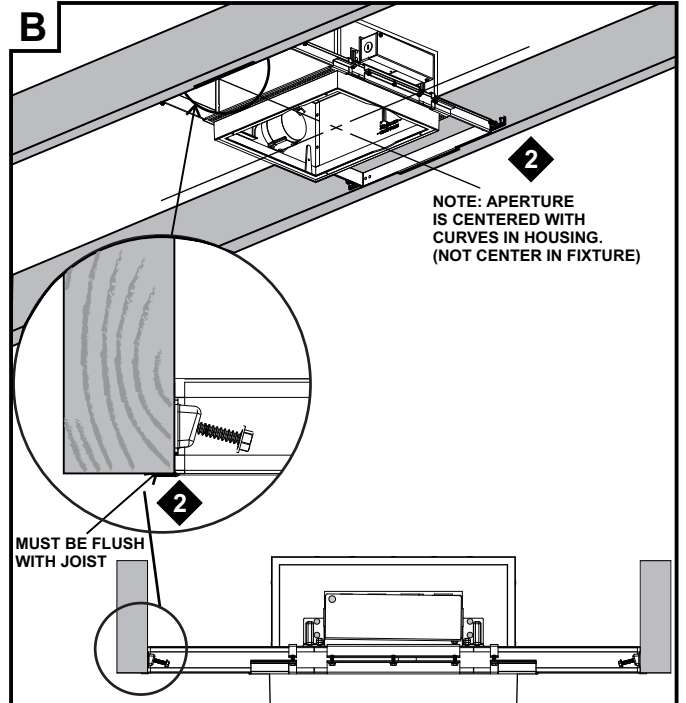


ELECTRICAL CONTRACTOR

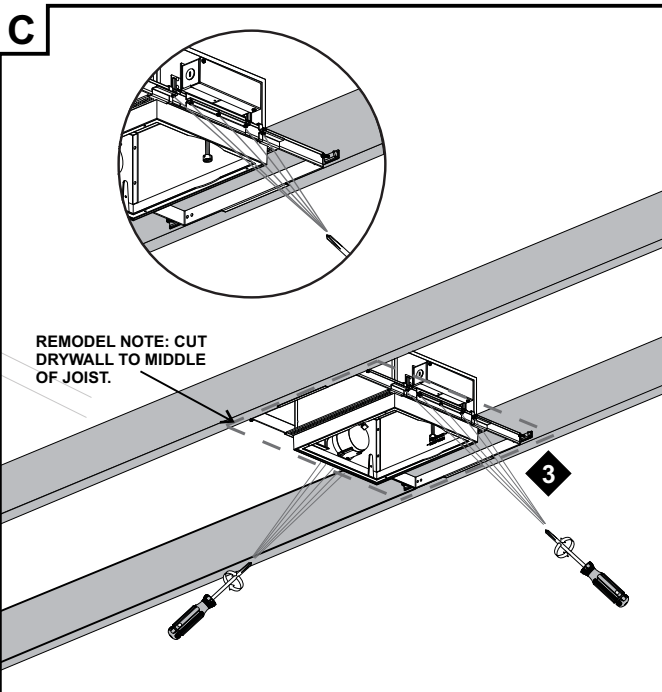


1: Use these dimensions when locating the center point of the aperture during the installation process. Align the fixture using a laser or a chalk line.

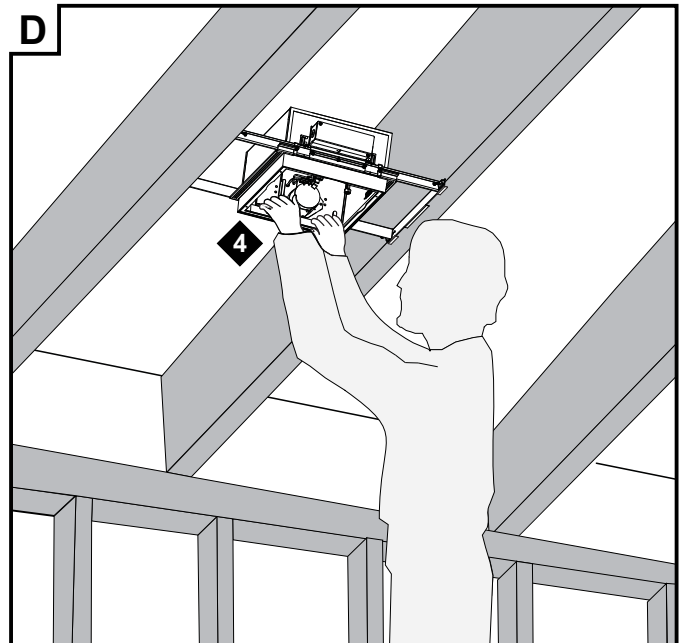
NOTE: Drywall anchor screens may be removed, if the joist are less than 14 1/2" apart. Refer to page 8 to shorten the hanger bars,



2: Hanger bars must align and remain flush with joist.



3: After fixture is positioned, tighten all (10) screws on hanger bars.



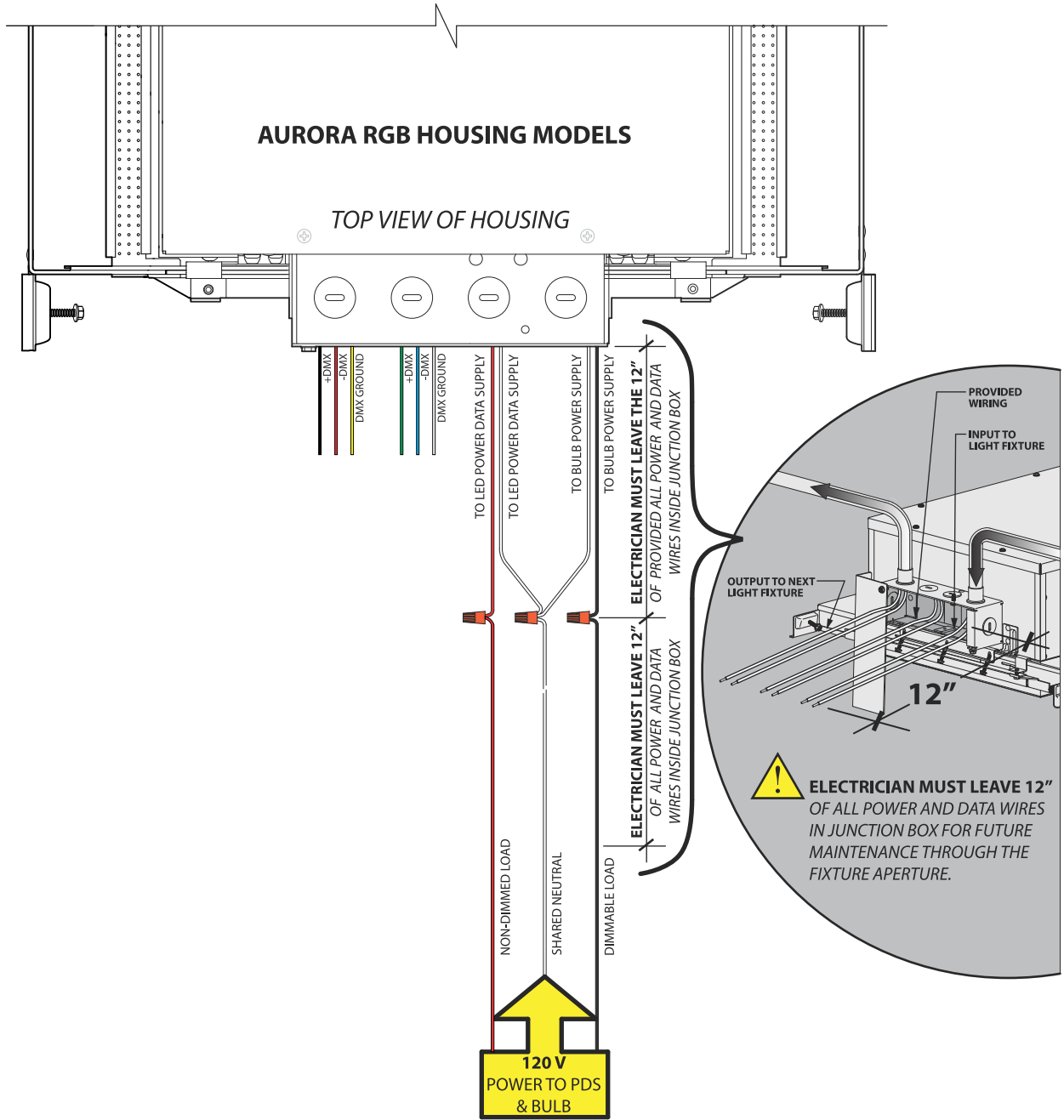
4: After installation, pull on fixture to ensure there is no movement.



**ELECTRICAL CONTRACTOR
CONNECT LINE VOLTAGE INSIDE THE FIXTURE.**

AURORA RGB HOUSING MODELS

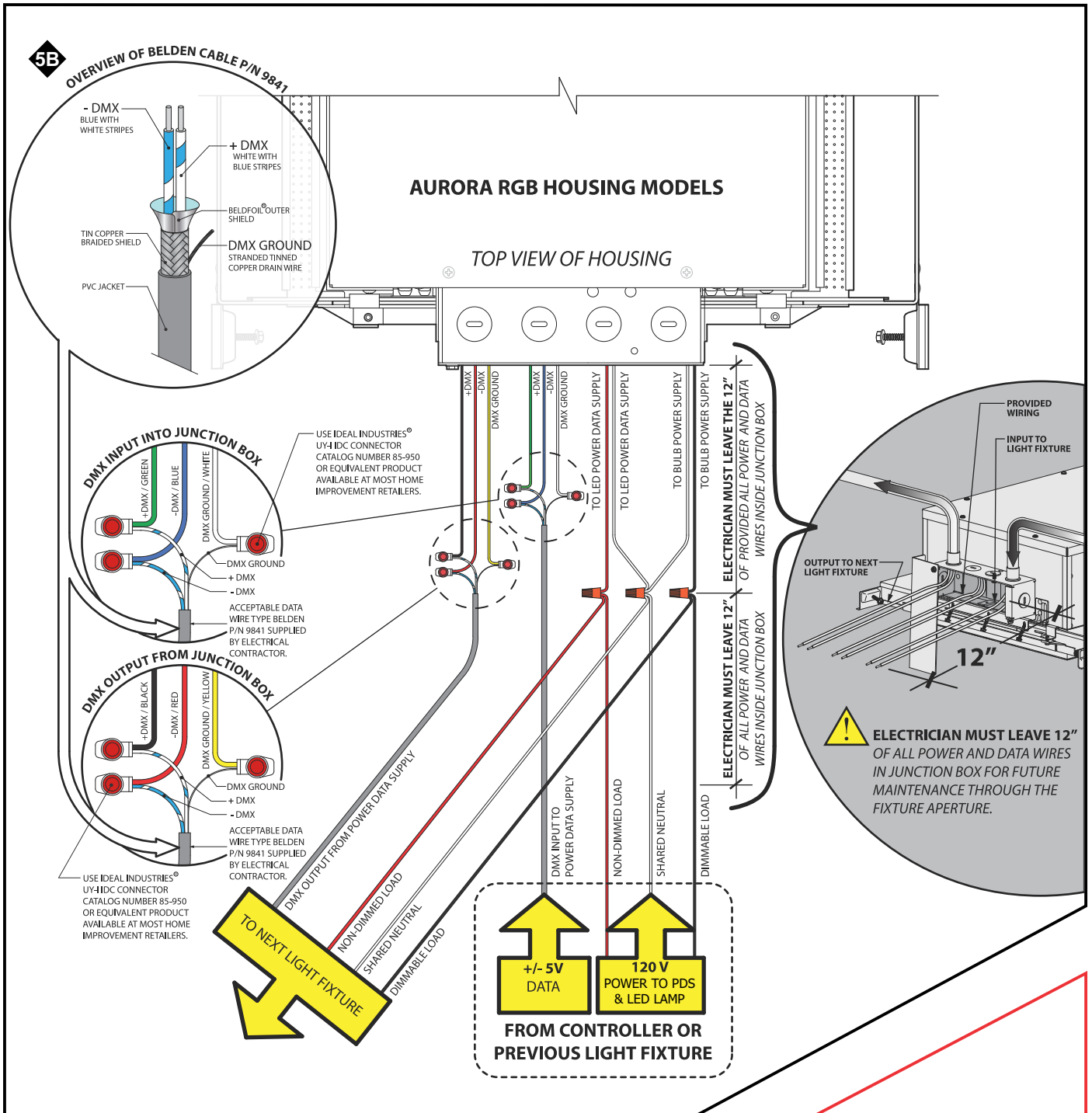
TOP VIEW OF HOUSING



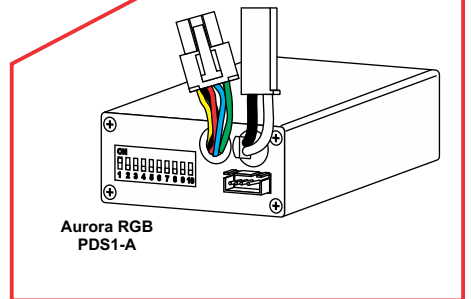


ELECTRICAL CONTRACTOR

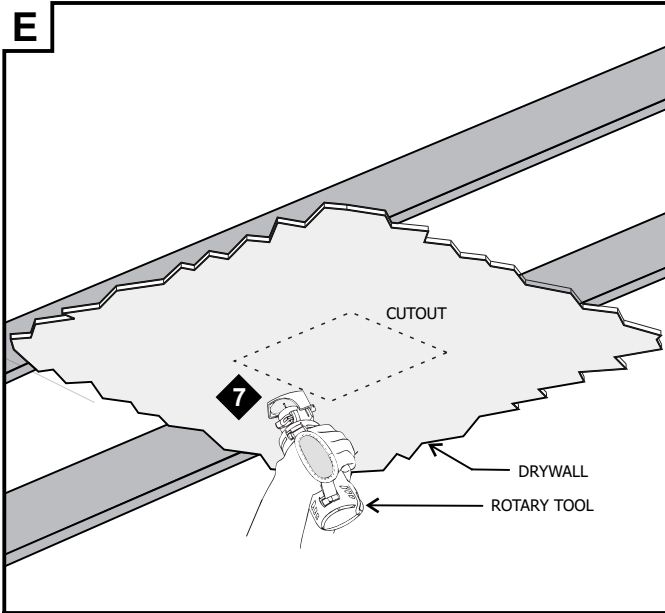
CONNECT DATA WIRES INSIDE THE FIXTURE, AND TO SET FIXTURE ADDRESS REFER TO PDS1A OPERATIONAL GUIDE ON PAGES 9&10 FOR MORE INFORMATION.



**TO SET FIXTURE ADDRESS
REFER TO PDS1A OPERATIONAL
GUIDE ON PAGES 9&10.**



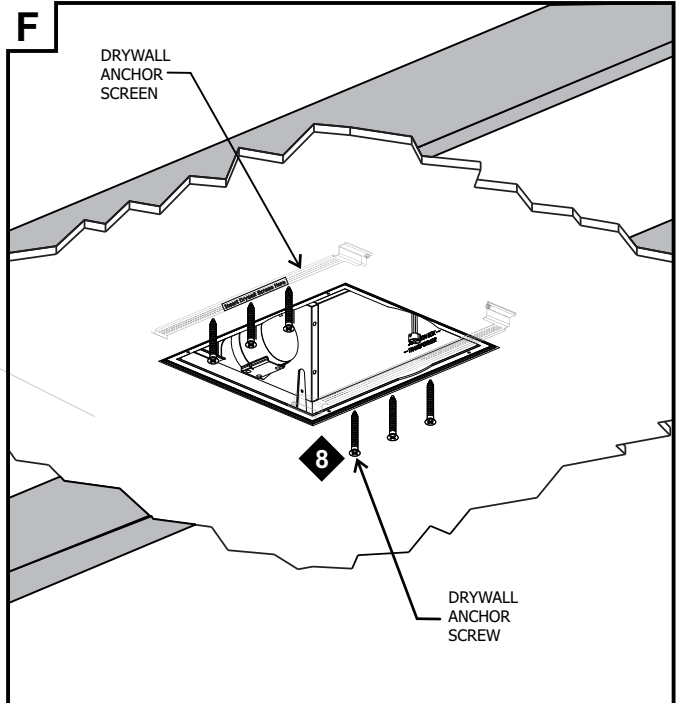
DRYWALL CONTRACTOR



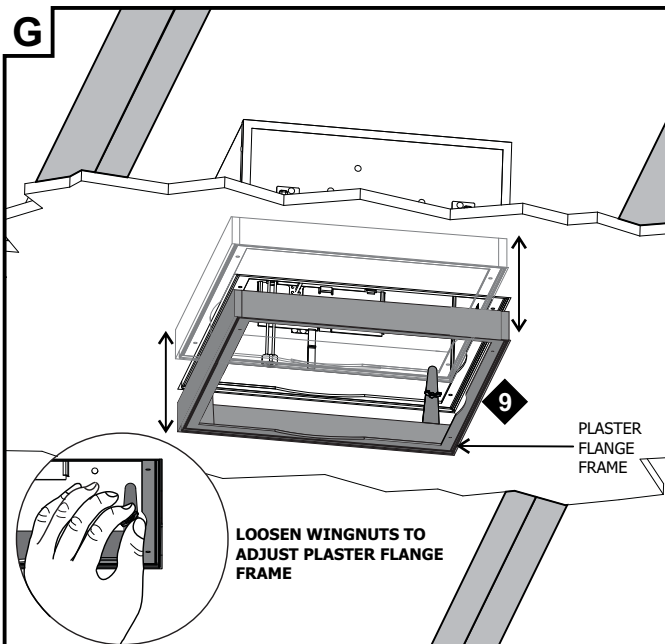
7: Drywall contractor must install drywall and cut 14 3/4" (375mm) X 12 1/8" (308mm) hole with rotary cutting tool around fixture or pre-cut hole in drywall prior to installation.

Contratista hojas de pared tiene que instalar la hoja de pared y corte un agujero 14 3/4" (375mm) X 12 1/8" (308mm) con una corte rotatorio alrededor el enseres fijo o lo corte un agujero antes que instalar.

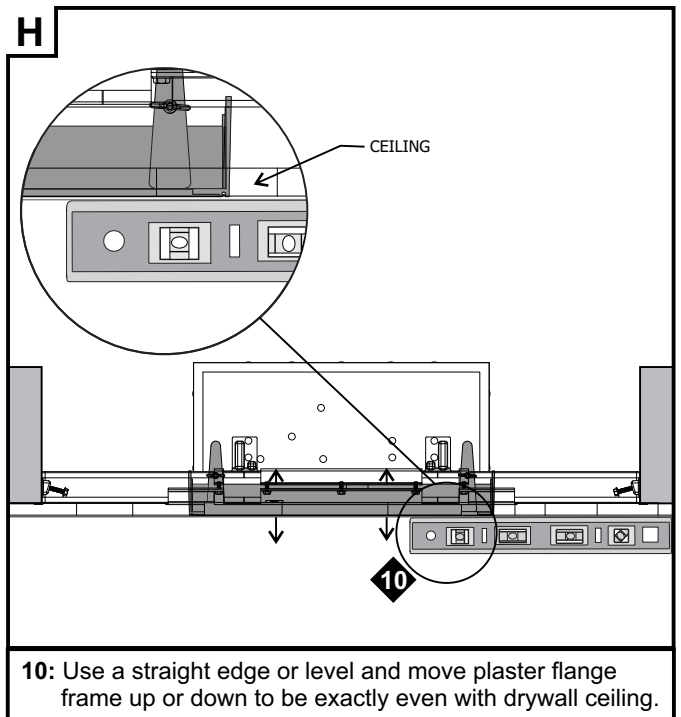
ELECTRICAL CONTRACTOR



8: Electrician must anchor drywall anchor screens. Insert screws through drywall into anchor screen on fixture.



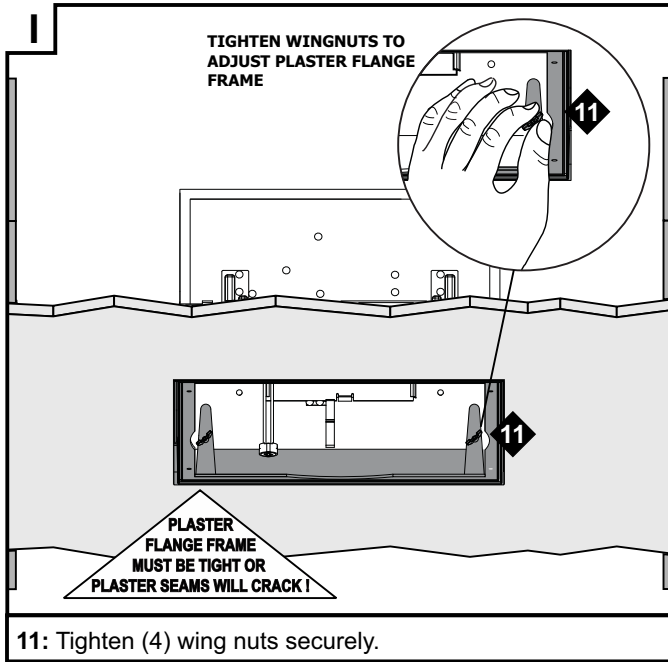
9: Loosen (4) wing nuts and adjust plaster flange frame to be flush with drywall. All 4 corners MUST be exactly even with drywall. Plaster flange frame adjusts to accommodate 1/2" (13mm) to 1 1/4" (32mm) ceiling thickness.



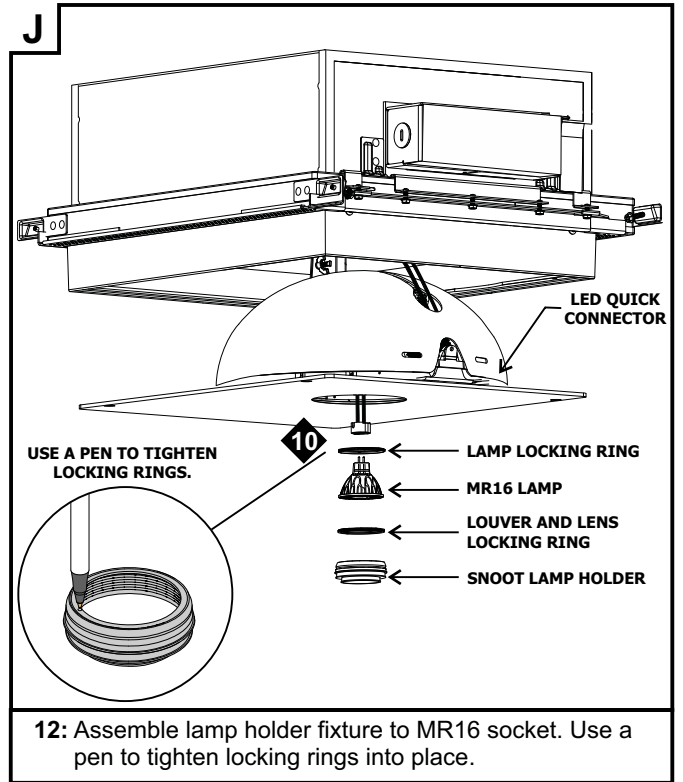
10: Use a straight edge or level and move plaster flange frame up or down to be exactly even with drywall ceiling.



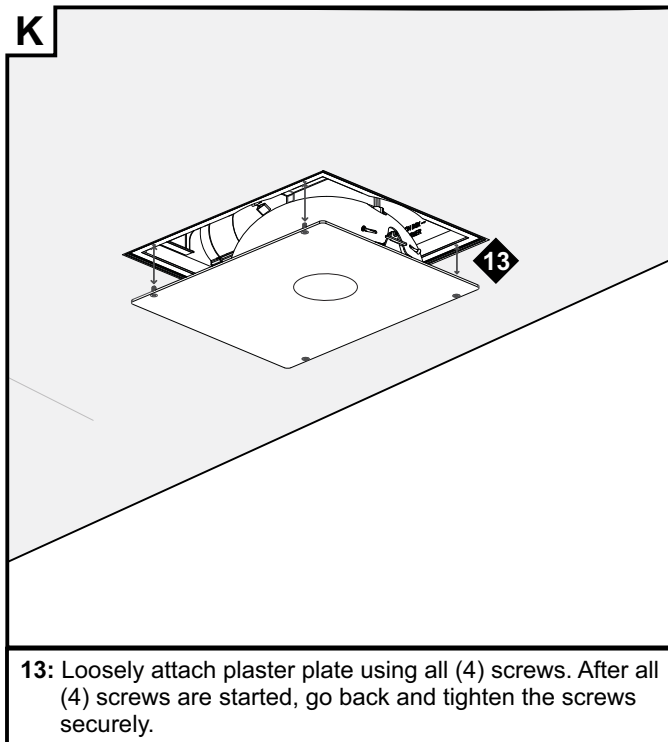
ELECTRICAL CONTRACTOR



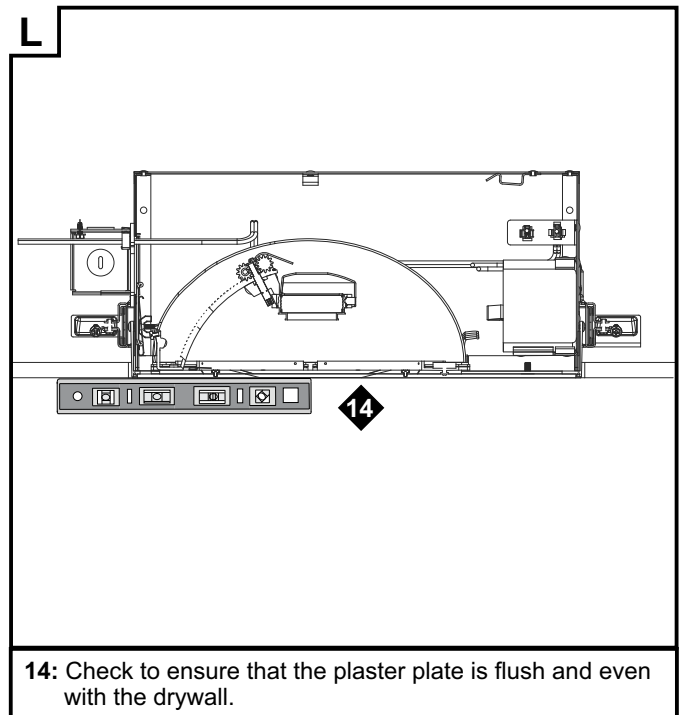
11: Tighten (4) wing nuts securely.



12: Assemble lamp holder fixture to MR16 socket. Use a pen to tighten locking rings into place.



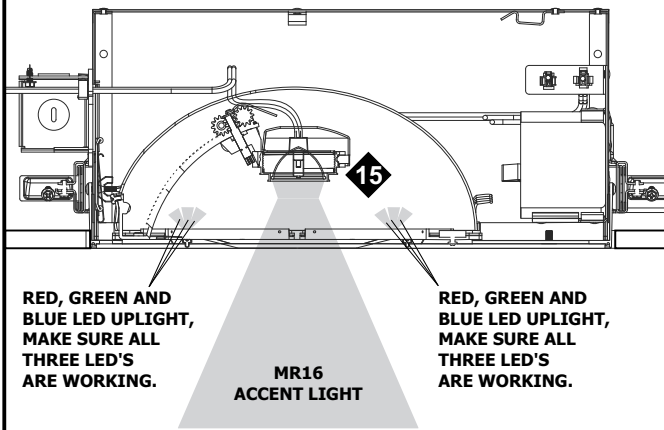
13: Loosely attach plaster plate using all (4) screws. After all (4) screws are started, go back and tighten the screws securely.



14: Check to ensure that the plaster plate is flush and even with the drywall.

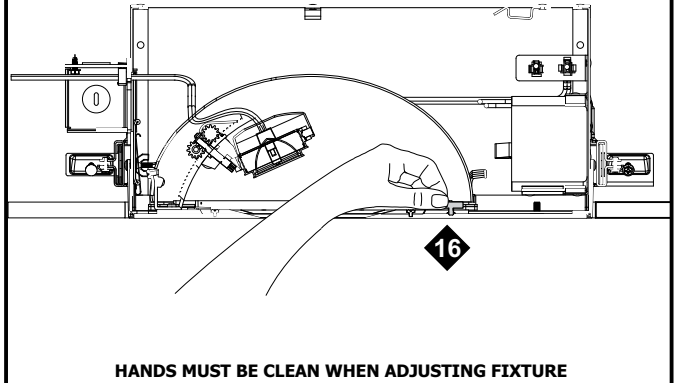


M



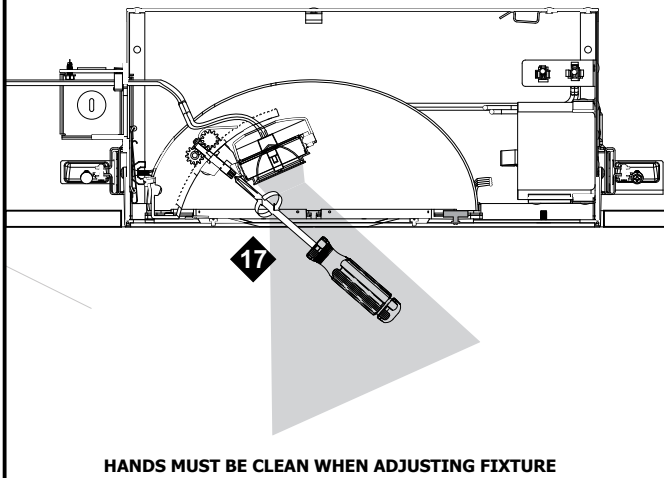
15: Turn on and test MR16 and RGB LED uplight to ensure they are properly installed.

N



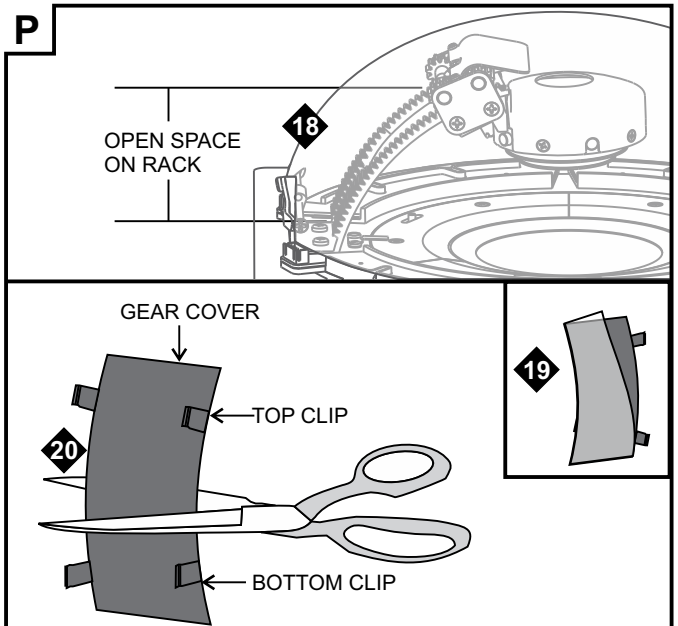
16: To aim lamp, loosen pan lock, rotate and position the pan rotation ring.

O



17: Tilt and rotate MR16 as needed. When lamp is properly adjusted secure pan lock.

P



18: Measure the distance of the open space on the track.

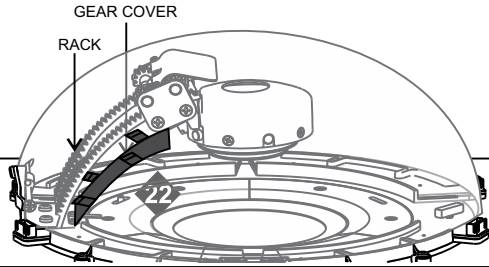
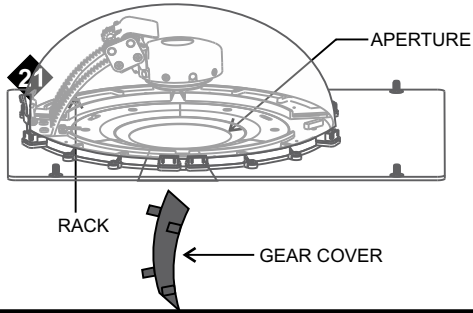
19: Remove the protective film from the gear cover.

20: Cut the gear cover to fit the space if necessary.



ELECTRICAL CONTRACTOR

Q



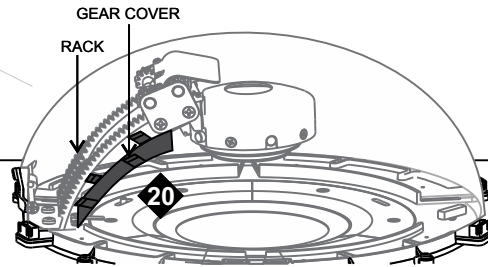
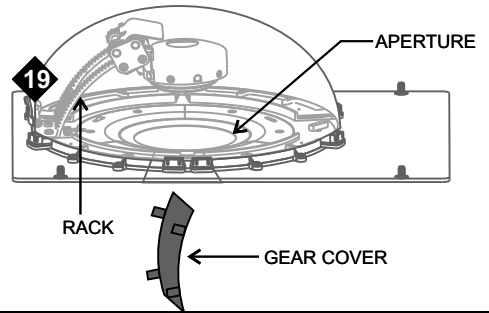
21: Insert the gear cover (make sure the gear cover clips are facing the lamp assembly rack) from the bottom of the aperture.

22: Secure by snapping in the two bottom clips of the gear cover first to the bottom edge, then snap in the top two clips to the top edge.



ELECTRICAL CONTRACTOR

R



23: Insert the gear cover (make sure the gear cover clips are facing the lamp assembly rack) from the bottom of the aperture.

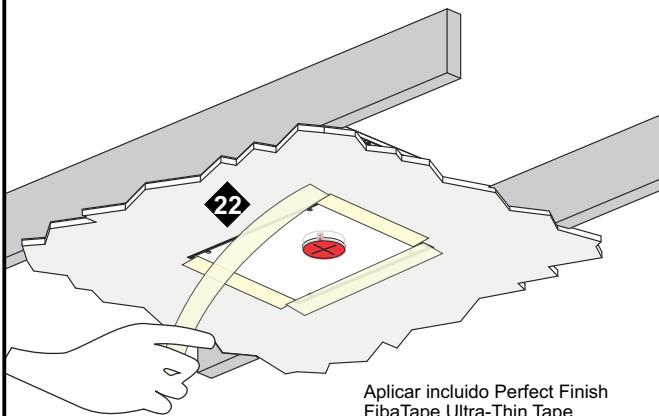
24: Secure by snapping in the two bottom clips of the gear cover first to the bottom edge, then snap in the top two clips to the top edge.



DRYWALL CONTRACTOR

Compatible only with traditional, level 5 surface finishing, not self-leveling, PVA primer systems.

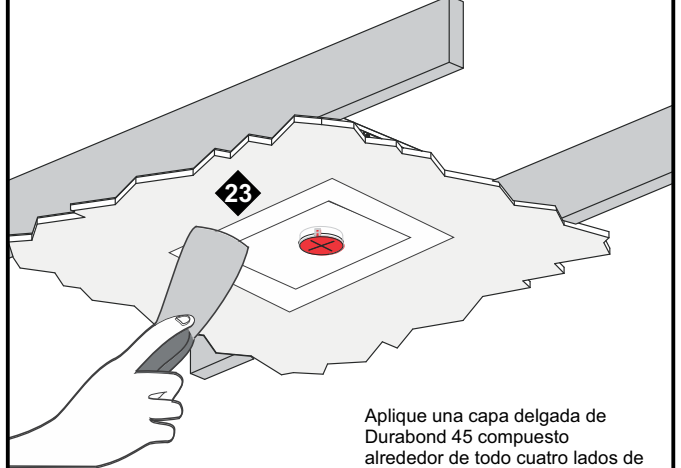
S



Aplicar incluido Perfect Finish FibaTape Ultra-Thin Tape alrededor de los cuatro lados

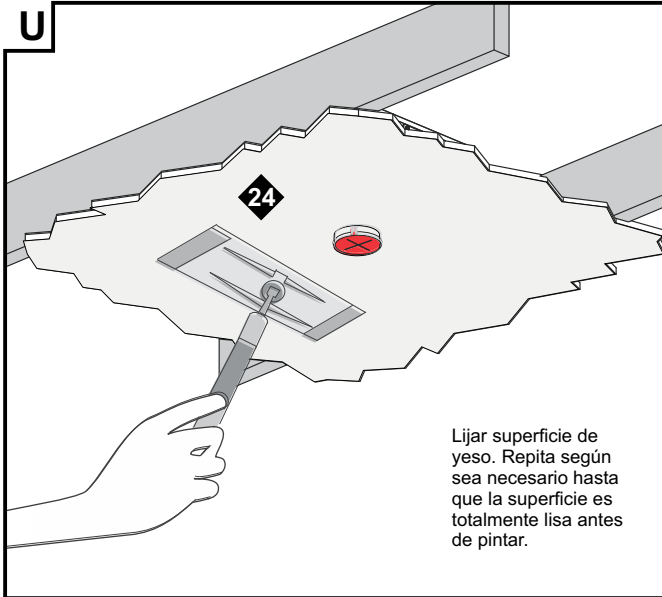
25: Apply included Perfect Finish FibaTape Ultra-Thin Drywall Tape around all four sides of the plaster plate. **DO NOT OVERLAP.**

T



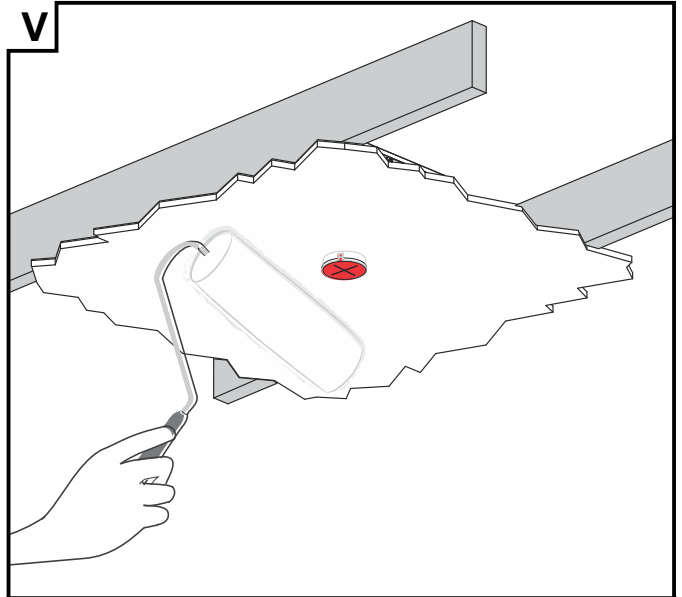
Aplique una capa delgada de Durabond 45 compuesto alrededor de todo cuatro lados de la placa de yeso

26: Apply a thin layer of Durabond 45 compound around all four sides of the plaster plate.



Lijar superficie de yeso. Repita según sea necesario hasta que la superficie es totalmente lisa antes de pintar.

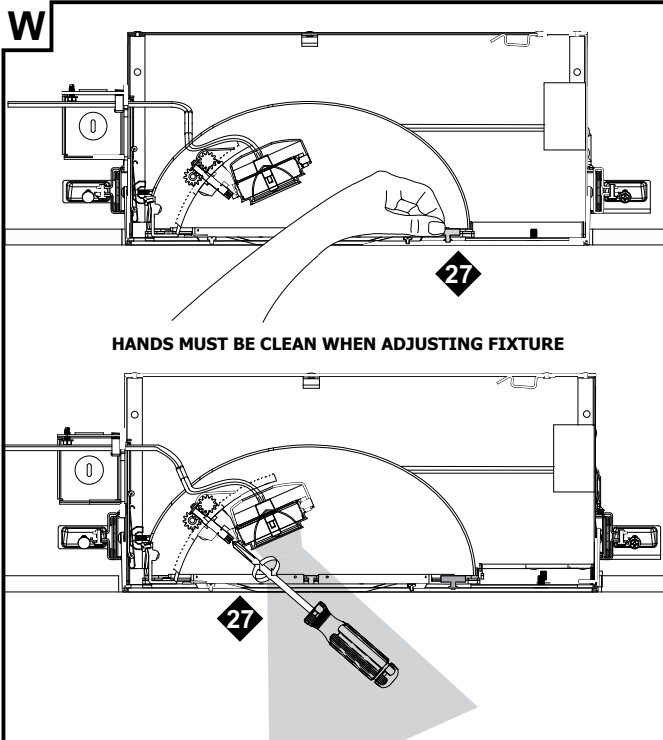
27: Sand plastered surface. Repeat as needed until surface is completely smooth before painting.



28: Paint and finish plaster plate and wall. Remove paint shield from plaster plate 20-60 minutes after painting.

29: Clean all excess paint from the aperture.

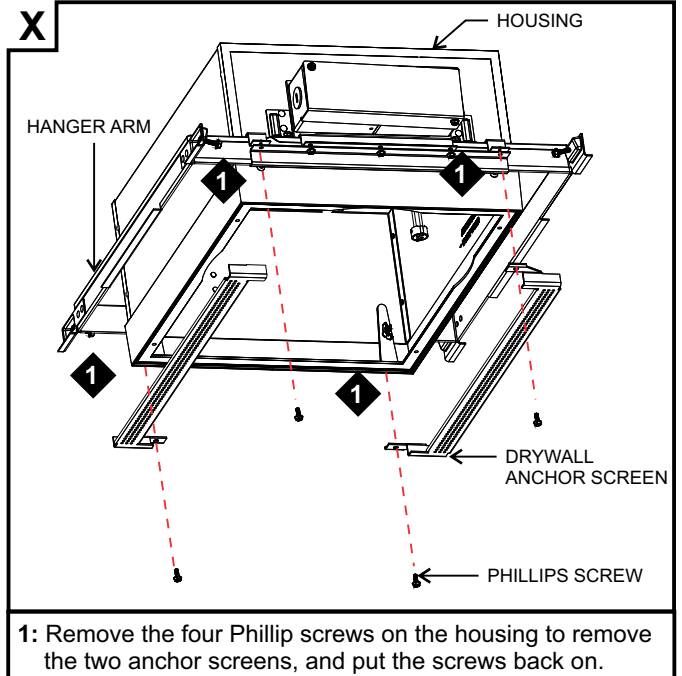
 **ELECTRICAL CONTRACTOR**



HANDS MUST BE CLEAN WHEN ADJUSTING FIXTURE

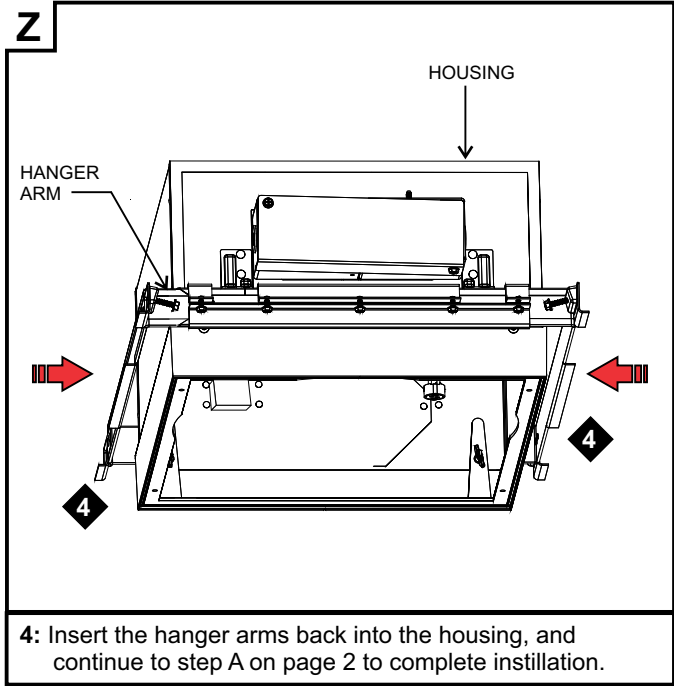
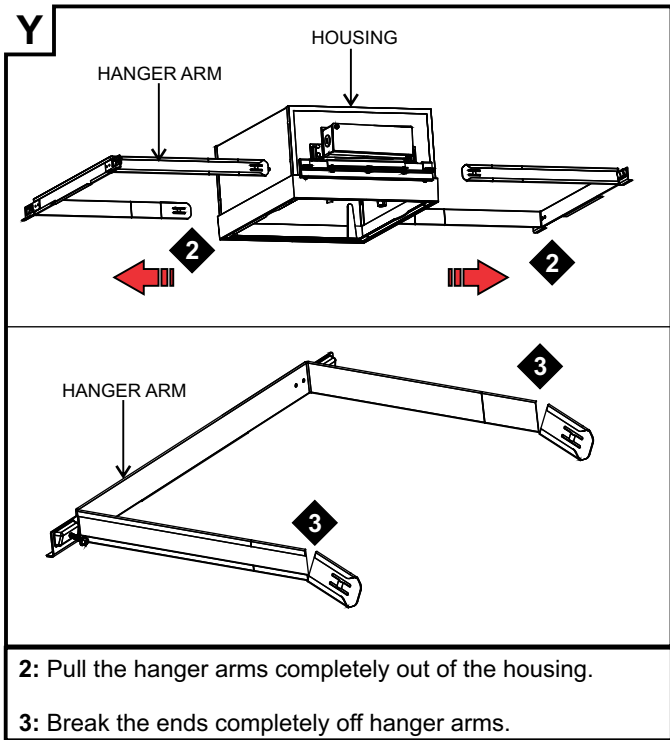
30: Wash hands and clean all drywall residue from inside aperture, with a clean damp towel. Electrician or lighting designer - ensure pan rotation ring is adjusted, locked in place, and the lamp is aimed properly.

SHORTENING THE HANGER BAR (ONLY FOR JOISTS SPACED LESS THAN 14.5")



1: Remove the four Phillip screws on the housing to remove the two anchor screens, and put the screws back on.

SHORTENING THE HANGER BAR (ONLY FOR JOISTS SPACED LESS THAN 14.5")





RGB Control

Color changing LEDs combine red, green and blue light at different intensities to create dynamic color effects. The color of an AURORA RGB can be either permanently assigned to the fixture during installation or adjusted remotely with the use of an external controller. Any external controller can be used so long as it uses the standardized lighting communication protocol known as DMX.

Operating in a DMX environment gives the user the greatest flexibility when it comes to customizing or creating dramatic effects. Depending on the functionality of the controller, you will be able to control each individual color and each fixture independently.

Selecting Modes

The AURORA RGB operates in Stand Alone Mode or DMX Mode. The mode can be selected with DIP switch #10 (See Figure A). On=DMX Mode Off=Stand Alone Mode. Any adjustments to the DIP switch settings should be made with electricity removed from device.

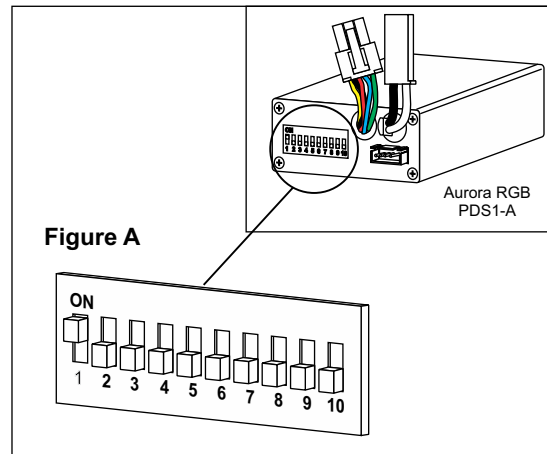
Stand Alone Mode

In this mode, DIP switches 1-9 are used to select a fixed color for applications where only one color is needed and no controller is present. Enter this mode by placing DIP switch #10 OFF. Multiple DIP switches can be adjusted to blend custom colors. Any adjustments to the DIP switch settings should be made with electricity removed from device. In Stand Alone Mode the device will not respond any DMX signals.

Stand Alone Mode

DIP	POSITION	EFFECT
1	ON/OFF	RED 100%
2	ON/OFF	RED 50%
3	ON/OFF	GREEN 100%
4	ON/OFF	GREEN 50%
5	ON/OFF	BLUE 100%
6	ON/OFF	BLUE 50%
7	OFF	TEST SEQUENCE
8	OFF	TEST SEQUENCE
9	ON/OFF	TEST SEQUENCE
10	OFF	MODE

Example: Shown with red light glowing at 100% intensity.



DMX Mode

In this mode, DIP switches 1-9 are used to select the DMX starting address. Any address 1-510 is possible. Enter this mode by placing DIP switch #10 ON. Any adjustments to the DIP switch settings should be made with electricity removed from device. In the event that no DMX signal is present for any period of time greater than 1 second, the AURORA RGB will revert to Signal Loss Mode. In this mode all LEDs will glow at 50% intensity until the DMX signal is resorted.

DMX Addressing

DMX mode enables the use of an external DMX controller. Each fixture requires a "start address" from 1 to 510. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 3 channels of DMX and was addressed to start on DMX channel 001, would read data from channels: 001, 002, and 003. Choose start addresses so that the channels used do not overlap and notate the start address selected for future reference.

Each Aurora RGB fixture uses three channels of control.

Channel	Value	Percent	Function
1	0-255	0-100%	Red Intensity 0-100%
2	0-255	0-100%	Green Intensity 0-100%
3	0-255	0-100%	Red Intensity 0-100%

DMX Dipswitch Quick Reference Chart

0=OFF 1=ON					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0	001	033	065	097	129	161	193	225	257	289	321	353	385	417	449	481	
1	0	0	0	0	002	034	066	098	130	162	194	226	258	290	322	354	386	418	450	482	
0	1	0	0	0	003	035	067	099	131	163	195	227	259	291	323	355	387	419	451	483	
1	1	0	0	0	004	036	068	100	132	164	196	228	260	292	324	356	388	420	452	484	
0	0	1	0	0	005	037	069	101	133	165	197	229	261	293	325	357	389	421	453	485	
1	0	1	0	0	006	038	070	102	134	166	198	230	262	294	326	358	390	422	454	486	
0	1	1	0	0	007	039	071	103	135	167	199	231	263	295	327	359	391	423	455	487	
1	1	1	0	0	008	040	072	104	136	168	200	232	264	296	328	360	392	424	456	488	
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1	0	0	1	0	010	042	074	106	138	170	202	234	266	298	330	362	394	426	458	490	
0	1	0	1	0	011	043	075	107	139	171	203	235	267	299	331	363	395	427	459	491	
1	1	0	1	0	012	044	076	108	140	172	204	236	268	300	332	364	396	428	460	492	
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0	1	1	1	0	015	047	079	111	143	175	207	239	271	303	335	367	399	431	463	495	
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1	0	1	0	1	022	054	086	118	150	182	214	246	278	310	342	374	406	438	470	502	
0	1	1	0	1	023	055	087	119	151	183	215	247	279	311	343	375	407	439	471	503	
1	1	1	0	1	024	056	088	120	152	184	216	248	280	312	344	376	408	440	472	504	
0	0	0	1	1	025	057	089	121	153	185	217	249	281	313	345	377	409	441	473	505	
1	0	0	1	1	026	058	090	122	154	186	218	250	282	314	346	378	410	442	474	506	
0	1	0	1	1	027	059	091	123	155	187	219	251	283	315	347	379	411	443	475	507	
1	1	0	1	1	028	060	092	124	156	188	220	252	284	316	348	380	412	444	476	508	
0	0	1	1	1	029	061	093	125	157	189	221	253	285	317	349	381	413	445	477	509	
1	0	1	1	1	030	062	094	126	158	190	222	254	286	318	350	382	414	446	478	510	
0	1	1	1	1	031	063	095	127	159	191	223	255	287	319	351	383	415	447	479		
1	1	1	1	1	032	064	096	128	160	192	224	256	288	320	352	384	416	448	480		

Example:

DMX STARTING ADDRESS #004

DMX STARTING ADDRESS #016

DMX STARTING ADDRESS #480