

# LUMENWERX

## CLUSTER

### RECESSED - INSTALLATION INSTRUCTIONS

1

NEW CONSTRUCTION - OF - IC - CP - DRYWALL

2

NEW CONSTRUCTION - OF - IC - CP - GRID

3

REMODEL - RM

4

MILLWORK - MW



This product must be installed in accordance with the National Electrical Code and all applicable local codes, by a person familiar with the construction and operation of the product, and the hazards involved. proper grounding is required for safety.

Ce produit doit être installé suivant le code national de l'électricité, ainsi que tous les codes locaux applicables, par une personne familière avec la construction et le fonctionnement du produit, ainsi que tous les risques qui y sont associés. La mise à terre électrique est obligatoire pour la sécurité.

Wire dimming conductors as Class 1

A luminaire with more than one power supply connection means shall be connected to only one branch circuit.

Do not power until all luminaires have been connected to the remote driver.

**NOTE:** Installation instructions also apply to CHICAGO PLENUM

**NOTE:** Wire dimming conductors as Class 1

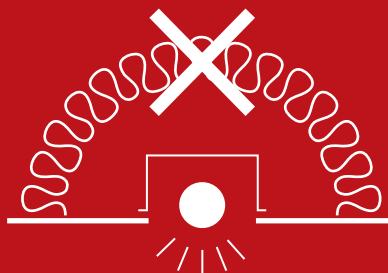


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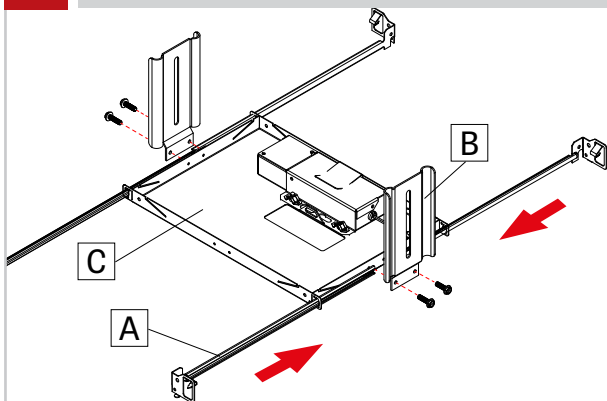
Cluster 3x3, 5x5, 10x1 and 15x1 do not install with insulation directly on the fixture.



	CLUSTERS	DIMENSIONS		
		Cut-out	Clearance Height	
			OF	IC / CP
Linear	CLUR01	1.56" x 1.56"	4.81"	4.88"
	CLUR02	2.75" x 1.56"	4.81"	4.88"
	CLUR03	4" x 1.56"	4.81"	5.38"
	CLUR05	6.38" x 1.56"	4.81"	5.38"
	CLUC10	12.38" x 1.56"	4.81"	5.38"
	CLUC15	18.37" x 1.56"	4.81"	5.38"
Planar	CLUR22	2.81" x 2.81"	6"	6.13"
	CLUR33	4" x 4"	6"	6.13"
	CLUR55	6.38" x 6.38"	4.81"	6.13"
Adjustable	CLUADJO3	4.38" x 3"	4.81"	5.38"
	CLUADJO5	6.75" x 3"	4.81"	5.38"
	CLUADJ10	12.75" x 3"	4.81"	5.38"

1

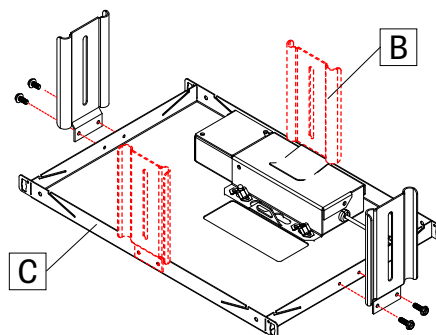
FMB option



With the **FMB** (Flush mount bars) option (when adjustment in height is not required), remove brackets (B) and insert the Bar hangers (A) into Mounting plate (C). Refer to the table above for clearance height dimensions.

2

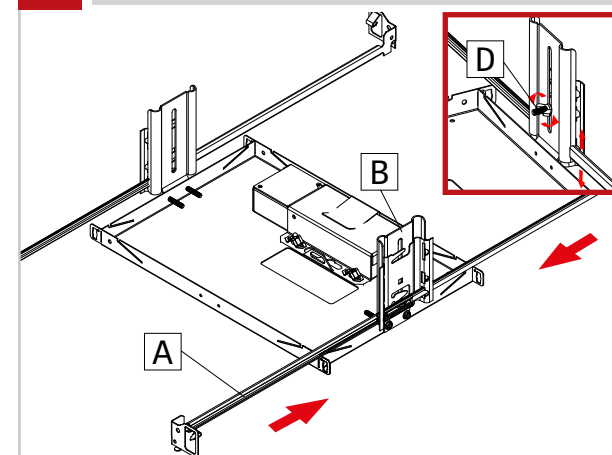
ACB, ASB, AHC option



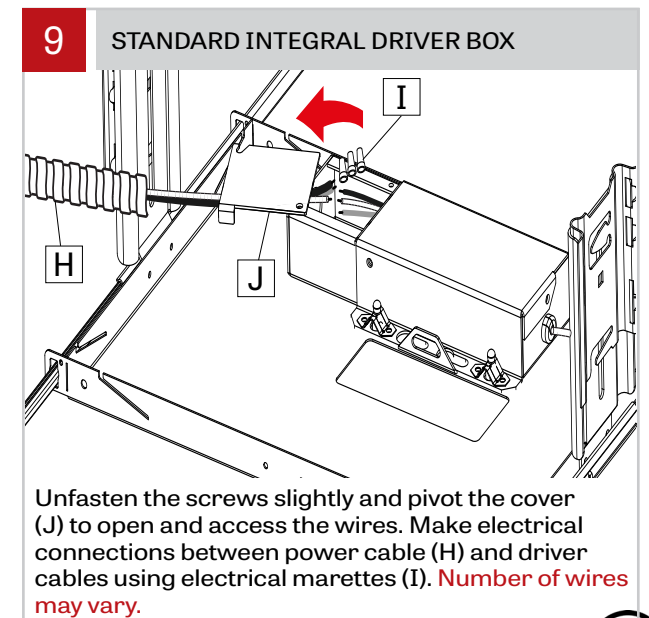
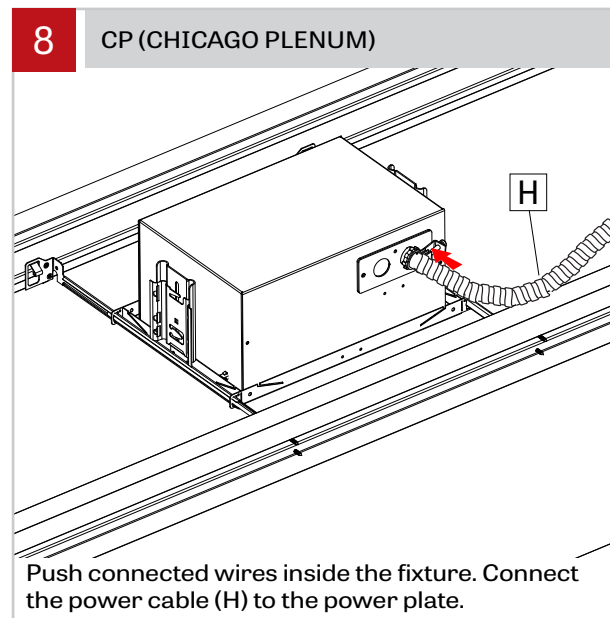
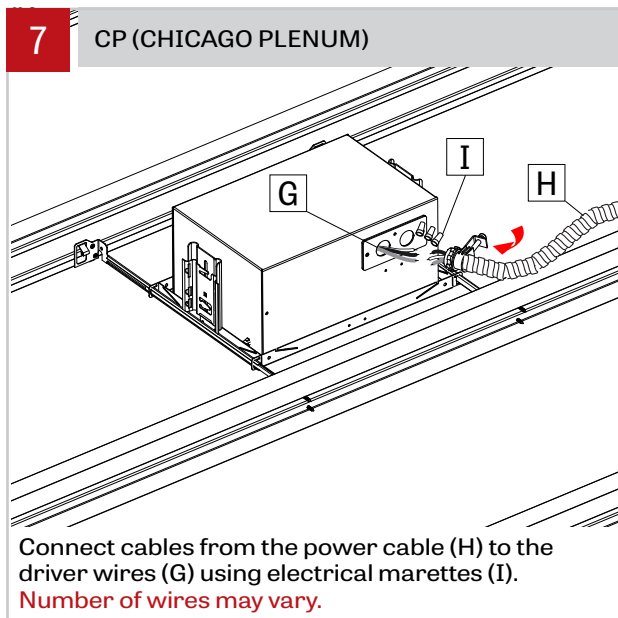
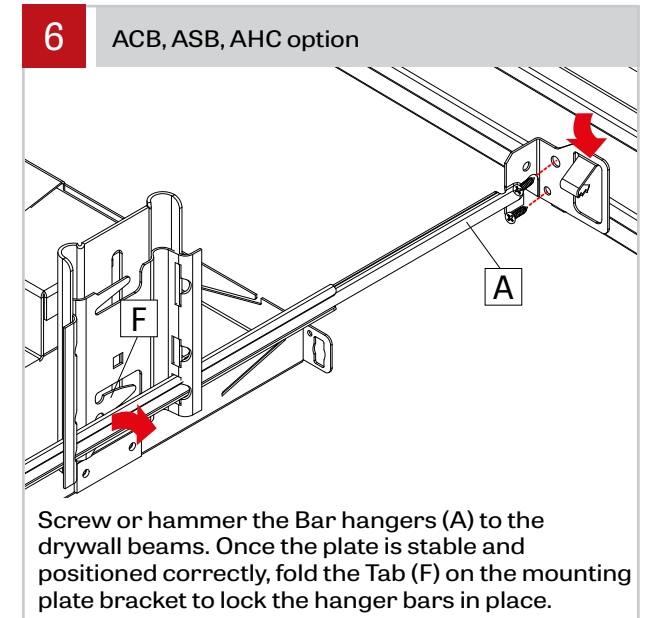
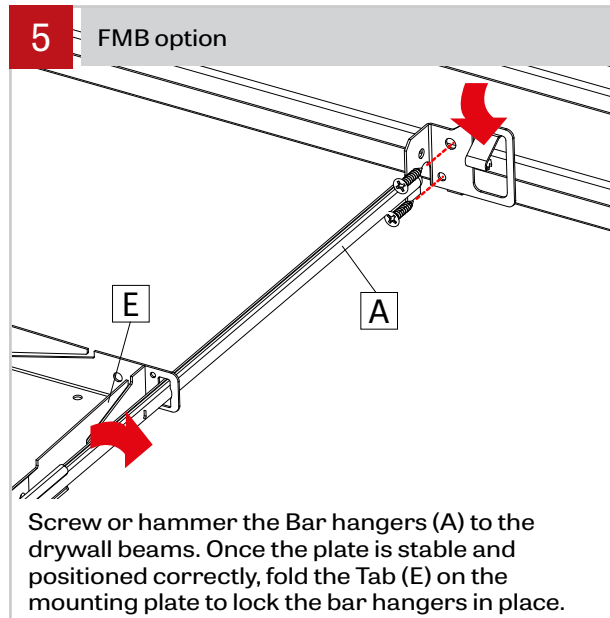
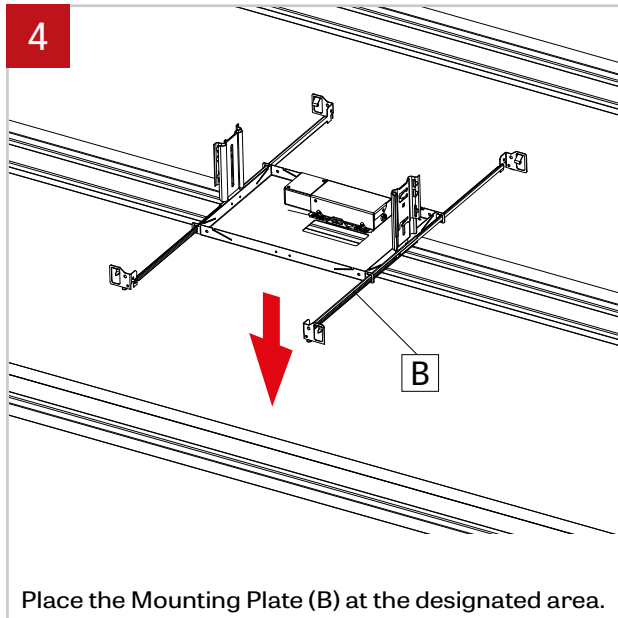
With the **ACB** (Adjustable commercial bar hangers) or **ASB** (Adjustable standard bar hangers) or **AHC** (Adjustable hat channel bars) option (when height adjustability is required), screw the Mounting plate bracket (B) to Mounting Plate (C) to desired side for hanger bar.

3

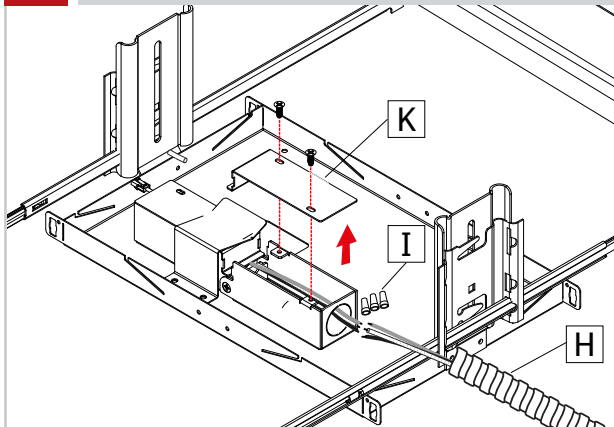
ACB, ASB, AHC option



Insert the Bar hangers (A) into Mounting plate bracket (B). Adjust the Bar hangers (A) height with the wing nut (D).



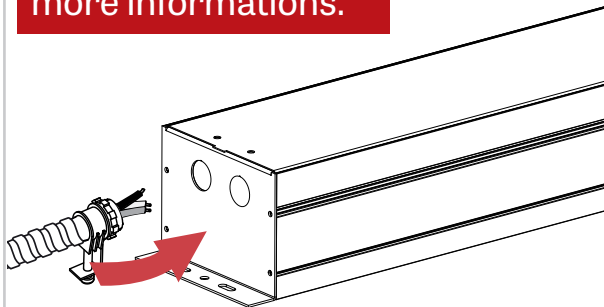
### 10 1x1 & 1x2 INTEGRAL DRIVER



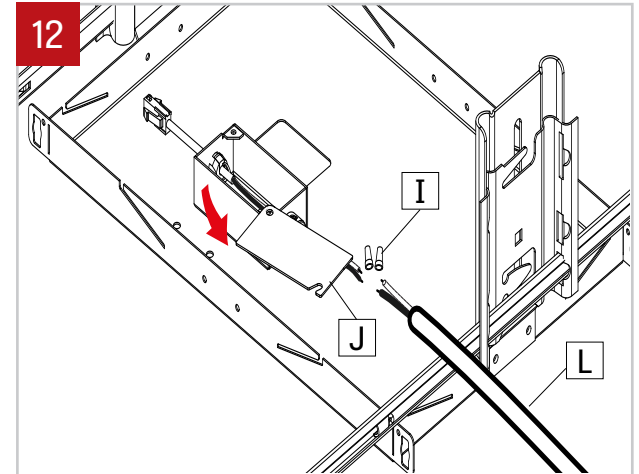
Unscrew the cover (K) to open and access the wires. Make electrical connections between power cable (H) and driver cables using electrical marettes (I).  
**Number of wires may vary.**

### 11 REMOTE DRIVER BOX

Please refer to the remote driver installation sheet for more informations.

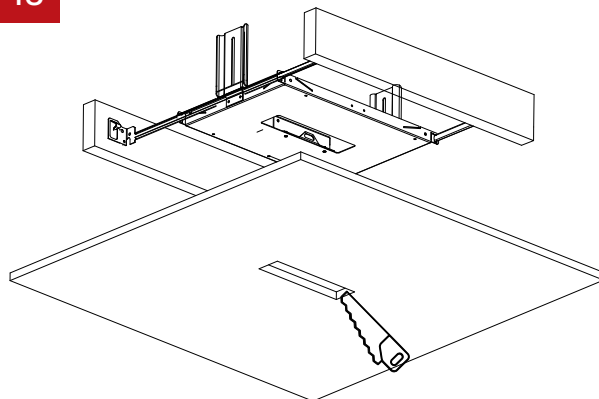


### 12



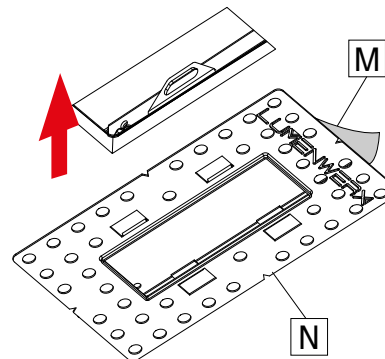
Unfasten the screws slightly and pivot the cover (J) to open and access the wires. Make electrical connections between the remote driver cable (L) and connector using the electrical marettes (I).  
**Number of wires may vary.**

### 13



Install the drywall. Prepare the area where the fixture is going to be installed. Cut hole in the drywall according to the dimensions (as shown in page 1).

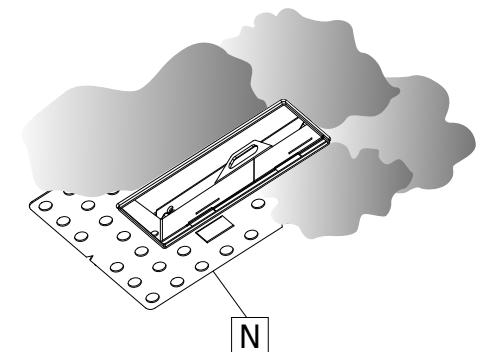
### 14 MUDPLATE (TRIMLESS)



Remove the paper layer (M) from the double sided tape. Place and stick the Mud flange bracket (N) into the prepared area. **DO NOT USE SCREWS. STAPLES IS OKAY.**

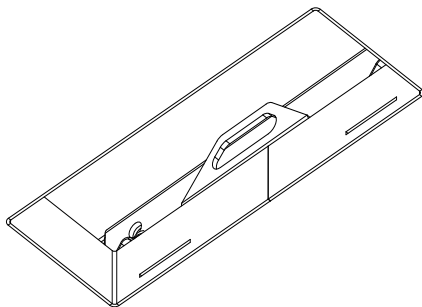
### 15

### MUDPLATE (TRIMLESS)



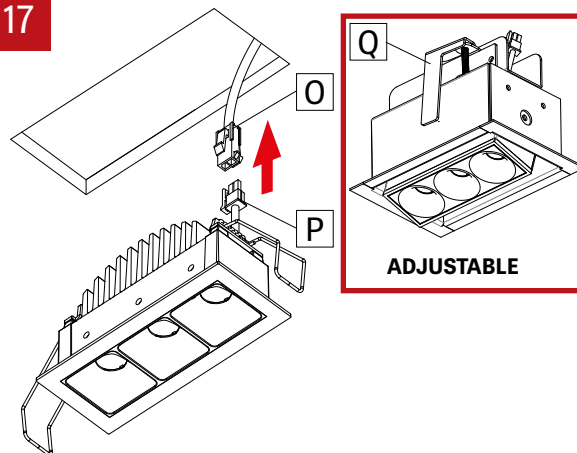
Plaster and sand over mud flange bracket (N) to create a smooth finish.

### 16 MUD FLANGE (TRIMLESS)



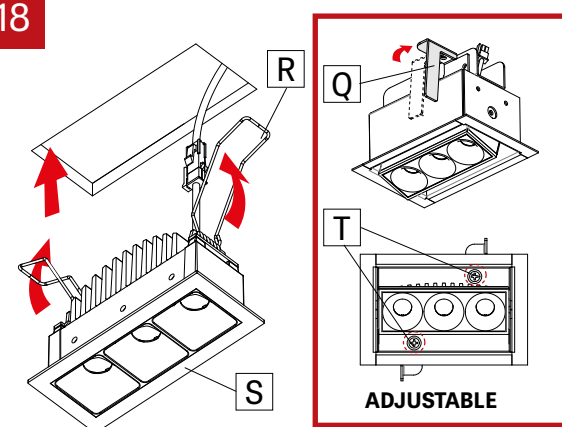
Once the mud is totally dry and painted, clean any leftover residue.

### 17



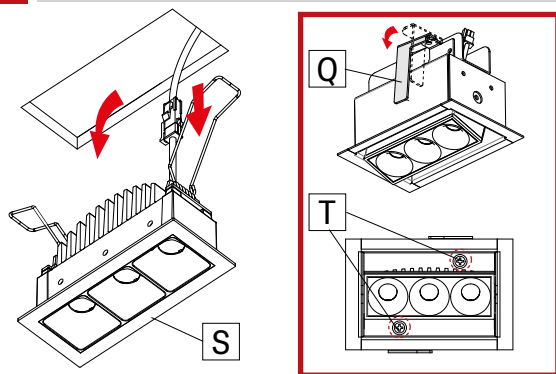
Make the connection between the driver quick connector (O) and the fixture quick connector (P). **Note: For ADJUSTABLE models, make sure the mounting brackets (Q) are up against the fixture body.**

### 18



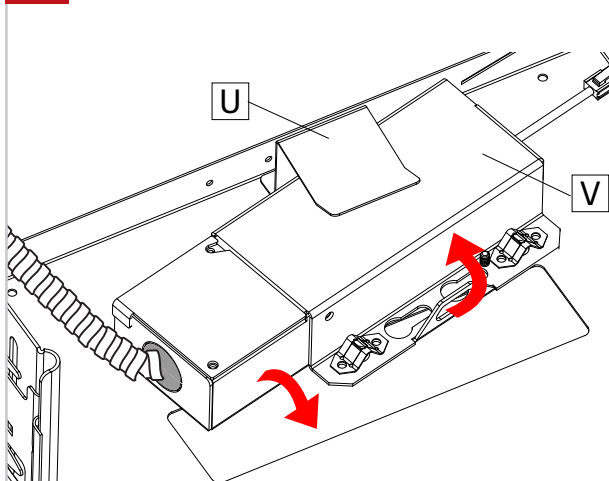
Compress the springs (R) upwards. Install the fixture (S) into the cut out. **For ADJUSTABLE models, there is no springs. Hold the fixture in place and fasten 2 or 4 screws (T) (do not overtighten). So, the mounting bracket (Q) will be rotated and the fixture (S) will be fixed in place.**

### 19 DRIVER REPLACEMENT



Pull the fixture (S) down and disconnect the quick connector between the driver and the fixture. **For ADJUSTABLE models, there is no springs. Unscrew 2 or 4 mounting screws (T). So, the mounting bracket (Q) will be rotated and located up against the fixture body. Remove the fixture.**

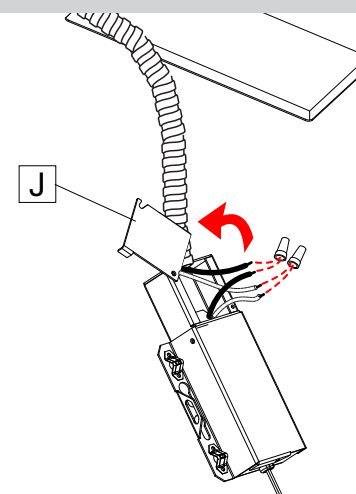
### 20



Unfasten the driver from the retain clips (U) and pull the driver box (V) through the fixture cut-out.

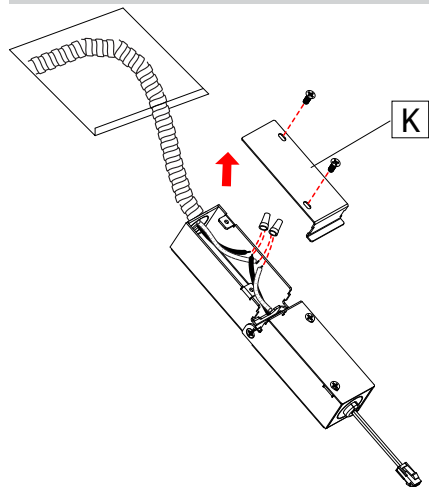
### 21

#### STANDARD INTEGRAL DRIVER



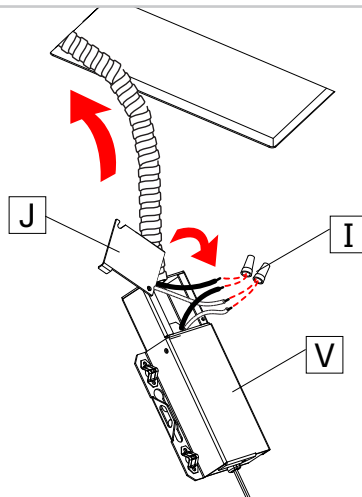
Unfasten the screw slightly and pivot the cover (J) to disconnect the wires.

### 22 1x1 & 1x2 INTEGRAL DRIVER



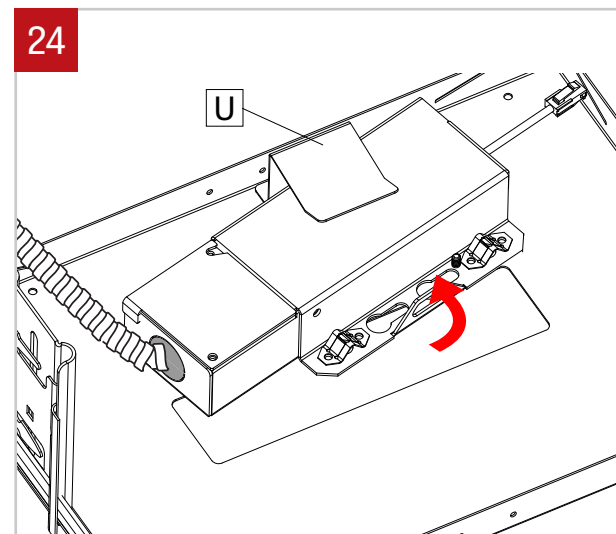
Unscrew the cover (K) on the driver and disconnect the wires.

### 23



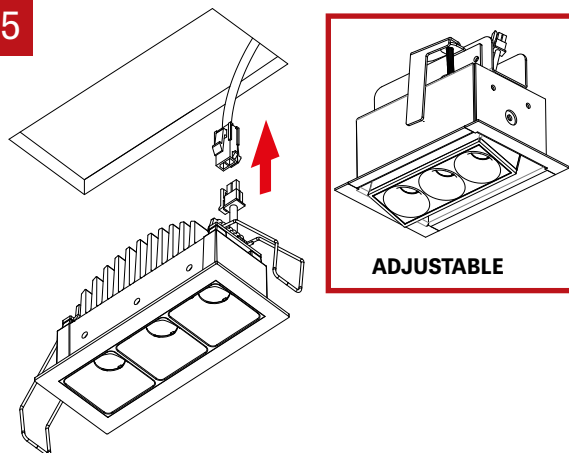
Replace to the new driver. Make the electrical connection with the electrical marettes (I). Close the cover (J) on the new driver. Push the driver box (V) through the fixture cut-out.

### 24



Fasten the driver under the retain clips (U).

### 25



For the connection between the fixture and the driver, repeat steps 17 and 18.



**NOTE:** Installation instructions also apply to CHICAGO PLENUM

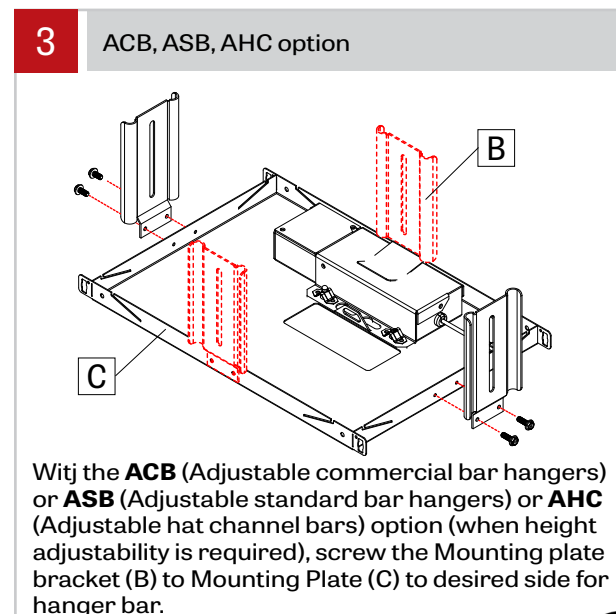
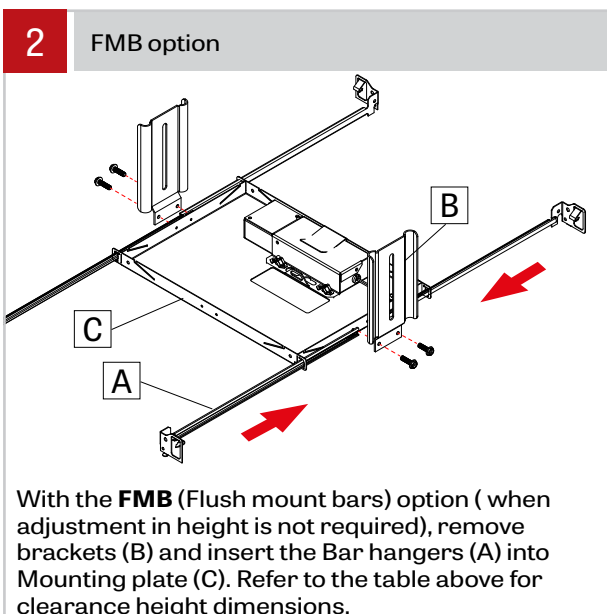
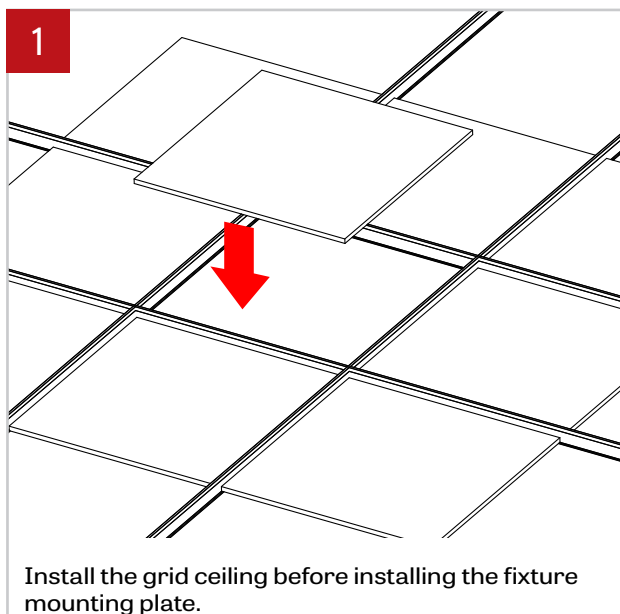
**NOTE:** Wire dimming conductors as Class 1



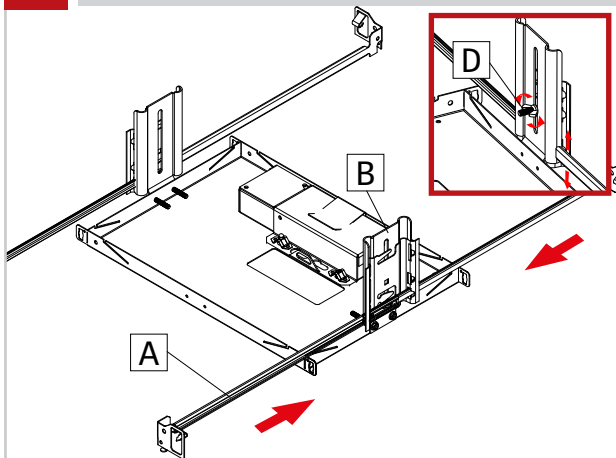
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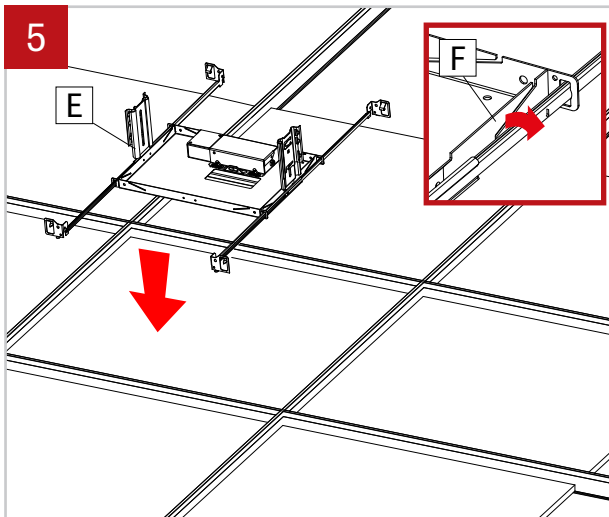


### 4 ACB, ASB, AHC option



Insert the Bar hangers (A) into mounting plate bracket (B). Adjust the Bar hangers (A) height with the wing nut (D).

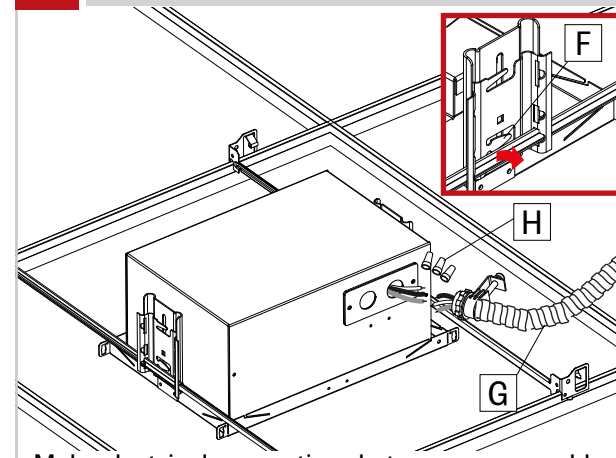
### 5



Place the mounting plate (E) at the designated area. Where the fixture will be installed in. Fold the tap (F) on the mounting plate to lock the bar hangers.

### 6

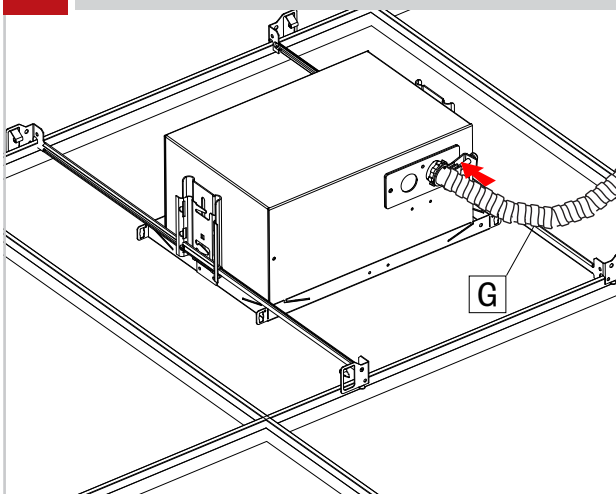
### CHICAGO PLENUM



Make electrical connections between power cable (G) and driver cables using electrical marettes (H). **Number of wires may vary.** Fold the tap (F) on the mounting plate to lock the bar hangers.

### 7

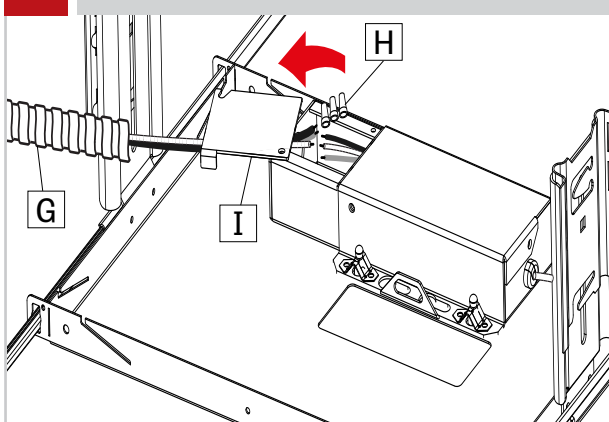
### CHICAGO PLENUM



Push connected wires inside the fixture. Connect the BX cable (G) to the power plate.

### 8

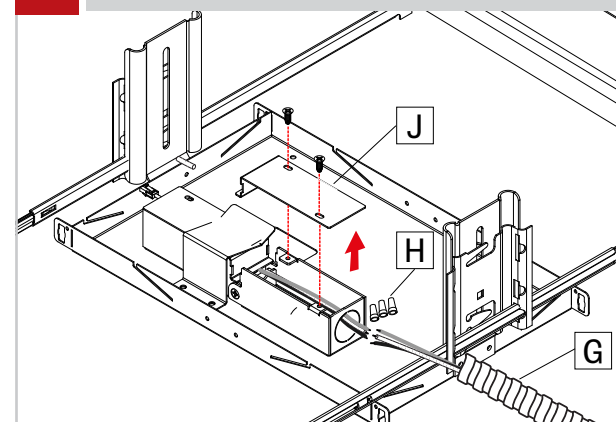
### STANDARD INTEGRAL DRIVER BOX



Unfasten the screws slightly and pivot the cover (I) to open and access the wires. Make electrical connections between power cable (G) and driver cables using electrical marettes (H). **Number of wires may vary.**

### 9

### 1x1 & 1x2 INTEGRAL DRIVER

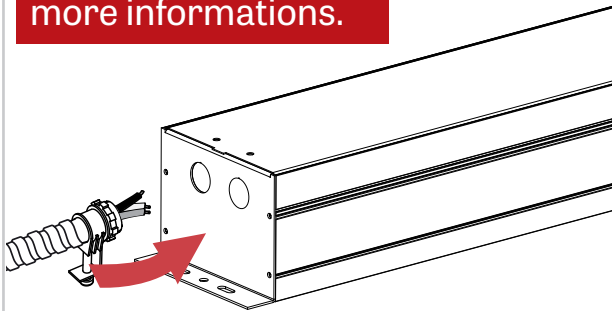


Unscrew the cover (J) to open and access the wires. Make electrical connections between power cable (G) and driver cables using electrical marettes (H). **Number of wires may vary.**

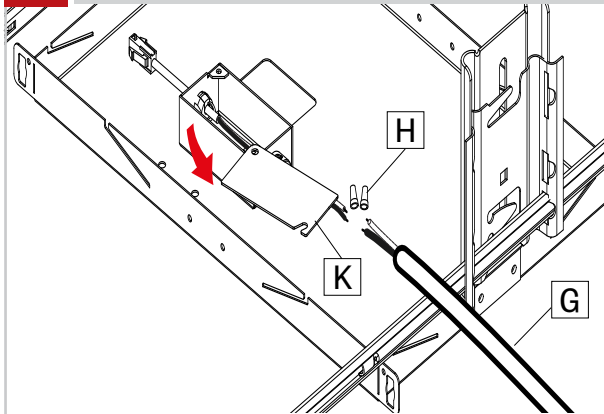


### 10 REMOTE DRIVER BOX

Please refer to the remote driver installation sheet for more informations.

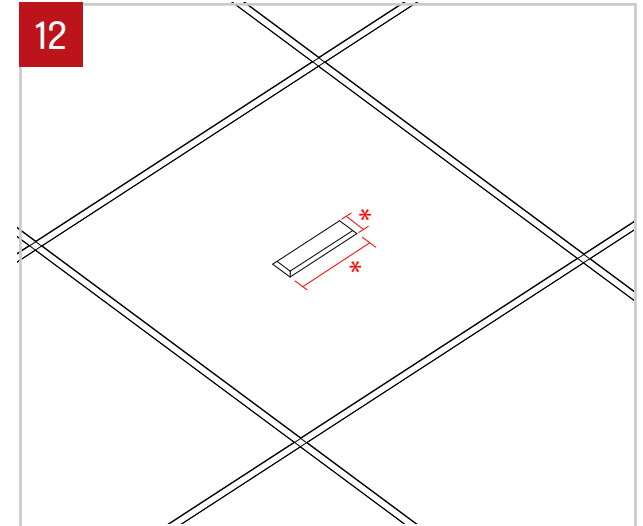


### 11 REMOTE DRIVER BOX



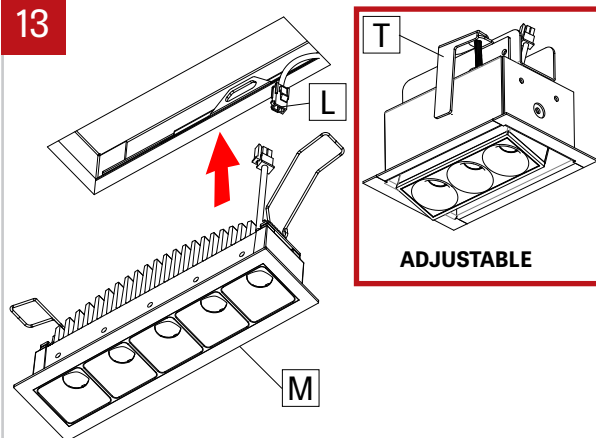
Unfasten the screws slightly and pivot the cover (K) to open and access the wires. Make electrical connections between the cable on the remote driver (H) and connector using the electrical marettes (H).  
**Number of wires may vary.**

### 12



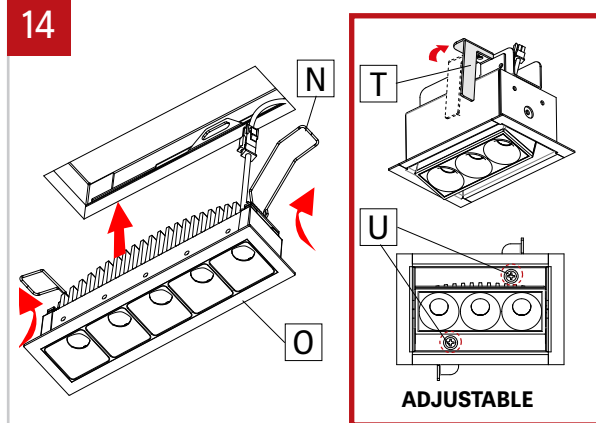
Prepare the area where the fixture is going to be installed. Cut hole in the drywall according to the dimensions (as shown in page 1).

### 13



Make the connection between the drivers quick connector (L) and the fixtures quick connectors (M). **Note:** For ADJUSTABLE models, make sure the mounting brackets (T) are up against the fixture body.

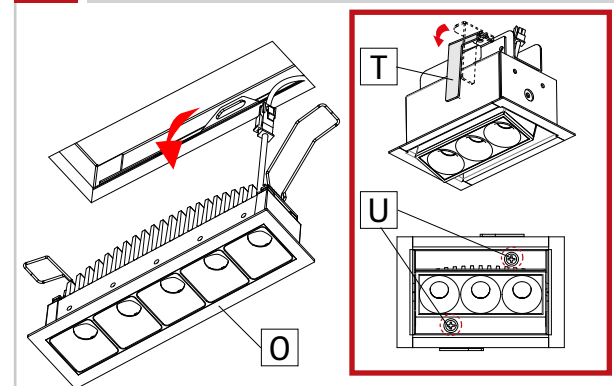
### 14



Compress the springs (N) Upwards and place the Fixture (O) into the cut out. **For ADJUSTABLE models, there is no springs.** Unscrew 2 or 4 mounting screws (U). So, the mounting bracket (T) will be rotated and located up against the fixture body. Remove the fixture.

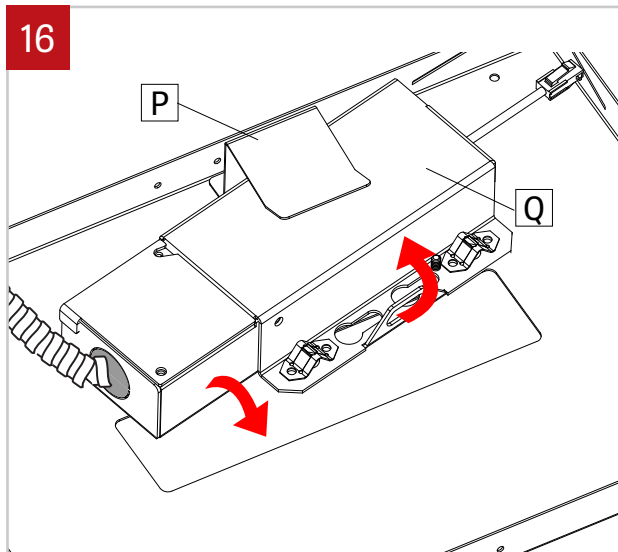
### 15

#### DRIVER REPLACEMENT



Pull the fixture (O) down and disconnect the quick connector between the driver and the fixture (O). **For ADJUSTABLE models, there is no springs.** Unscrew 2 or 4 mounting screws (U). So, the mounting bracket (T) will be rotated and located up against the fixture body. Remove the fixture.

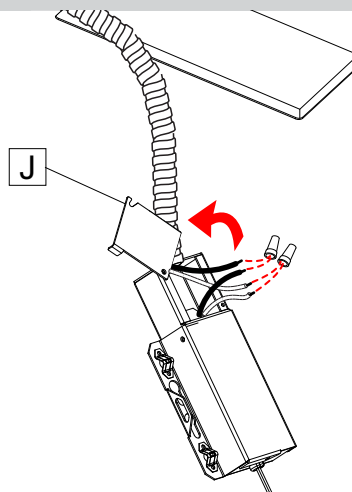
16



Unfasten the driver from the retain clips(P) and pull the driver box(Q) through the fixture cut-out.

17

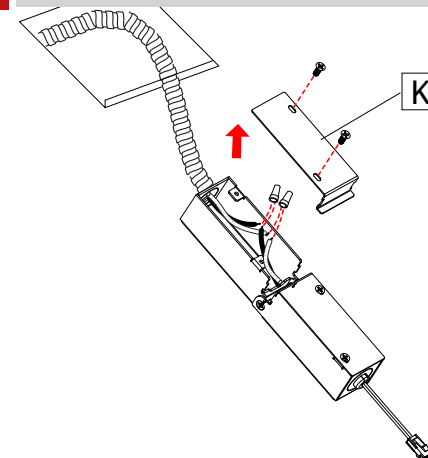
STANDARD INTEGRAL DRIVER



Unfasten the screw slightly and pivot the cover(J) to disconnect the wires.

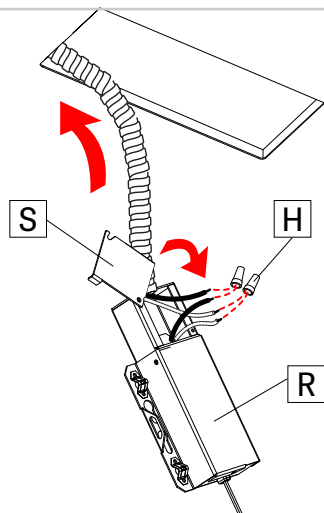
18

1x1 & 1x2 INTEGRAL DRIVER



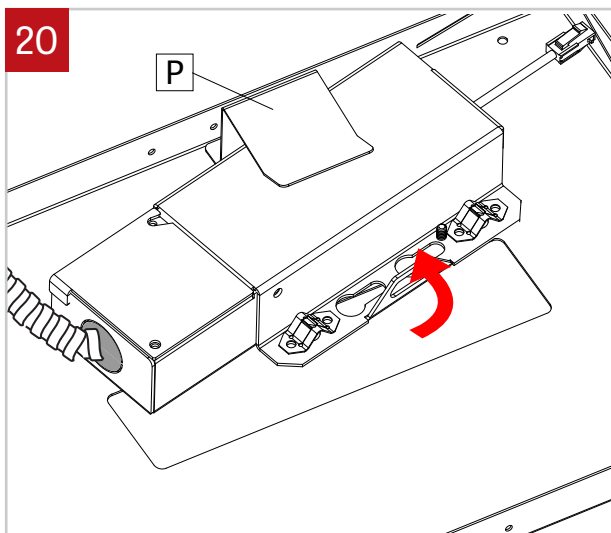
Unscrew the cover(K) on the driver box to disconnect the wires.

19



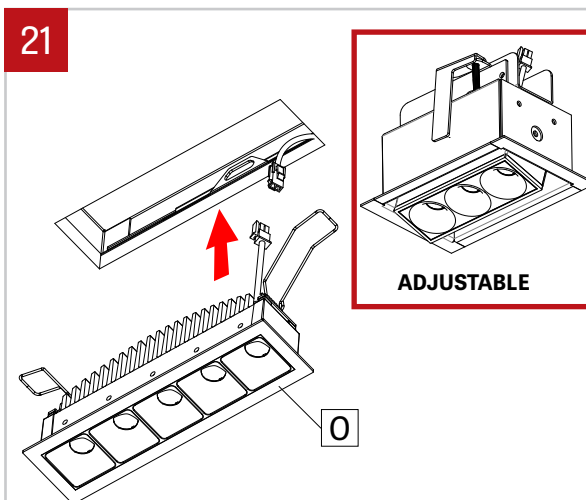
Replace new driver (R) and make the electrical connection with the electrical marettes (H). Close the cover(S) on the new driver(V). Push the driver box(R) through the fixture cut-out.

20



Fasten the driver from the retain clips(P).

21



For the connection between the fixture(O) and the driver, repeat steps 13 and 14.

**NOTE:** Wire dimming conductors as Class 1

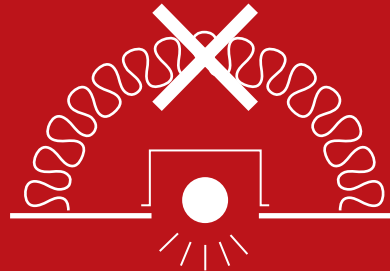


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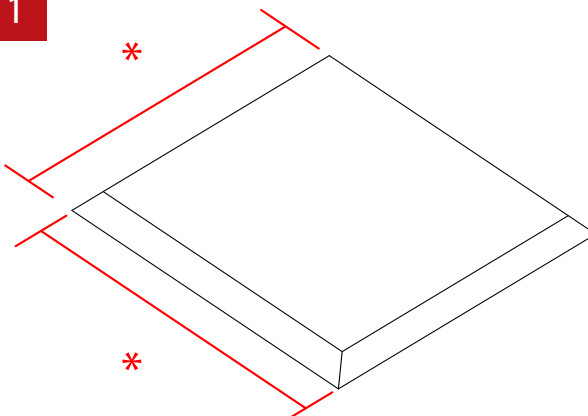


Cluster 3x3, 5x5, 10x1 and 15x1 do not install with insulation directly on the fixture.



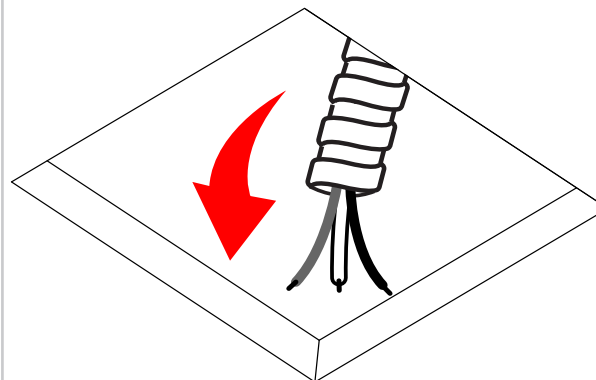
	CLUSTERS	DIMENSIONS		
		Cut-out	Clearance Height	
			Integral driver	Remote driver
Linear	CLUR01	1.56" x 1.56"	4"	2.16"
	CLUR02	2.75" x 1.56"	4"	1.94"
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Adjustable	CLUADJ03	4.38" x 3"	4"	3.25"
	CLUADJ05	6.75" x 3"	4"	3.25"
	CLUADJ10	12.75" x 3"	4"	3.25"

1



Prepare the area where the fixture is going to be installed. Cut hole in the drywall according to the dimensions [\*] in the cut-out dimensions table above.

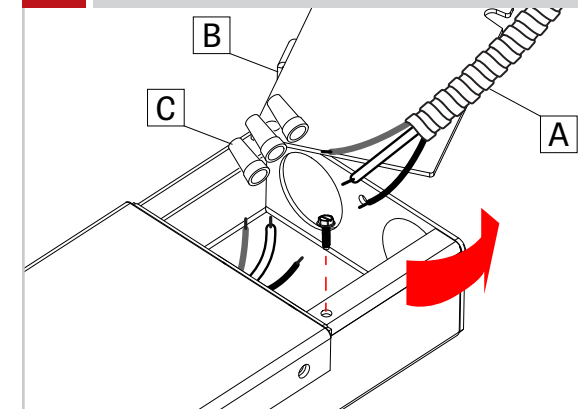
2



Prepare the area where the fixture is going to be installed. Cut hole in the drywall according to the dimensions [\*] in the client drawings.

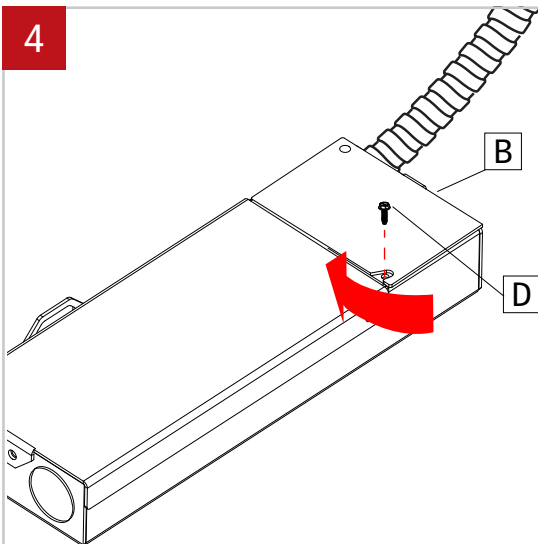
3

### STANDARD INTEGRAL DRIVER BOX



Unfasten the screws slightly and pivot the cover (B). Make electrical connections between power cable (A) and driver cables with electrical marettes (C).  
**Number of wires may vary.**

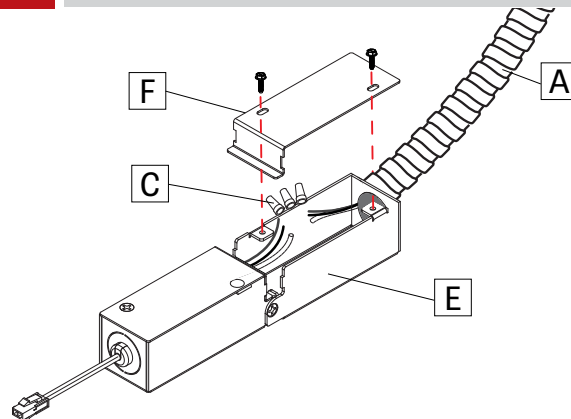
4



Reinstall the cover (B) by pivoting it back into place. Tighten the screw (D) to secure the cover.

5

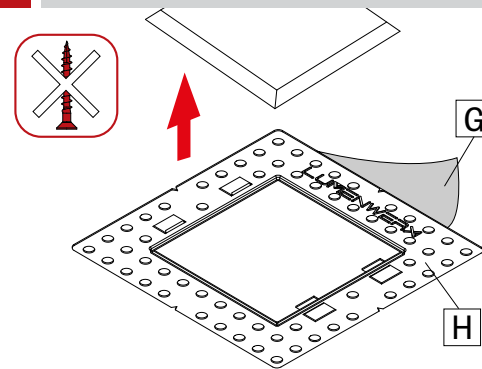
1X1, 1X2 INTEGRAL DRIVER BOX



Unscrew to remove the cover (F). Make the electrical connection between the integral driver box (E) and power cable (A) with the electric marettes (C). Close the cover with the screws (I).  
**Number of wires may vary.**

6

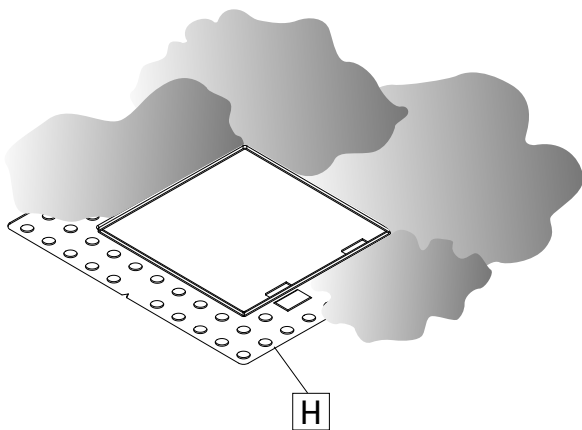
TRIMLESS



Remove the paper layer (G) from the double-sided tape. Place and stick the Mud flange bracket (H) into the prepared area. **STAPLES ARE OK. DO NOT USE SCREWS.**

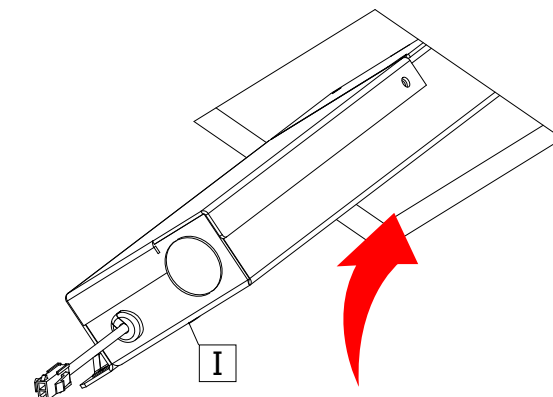
7

TRIMLESS



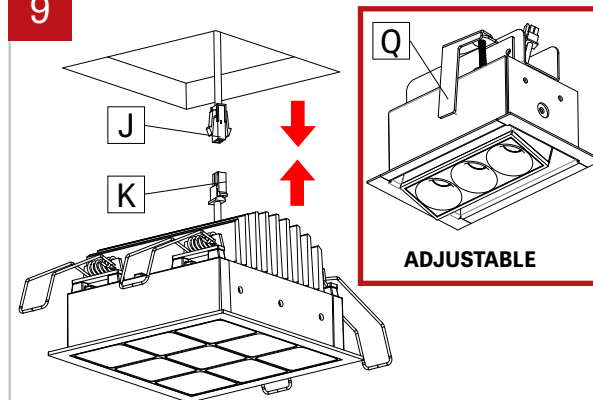
Plaster and sand over mud flange bracket (H) to create a smooth finish.

8



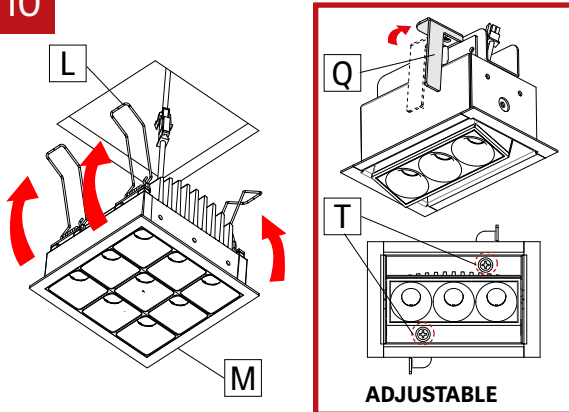
Place the integral driver box (I) into the ceiling.

9



Make the connection between the driver quick connector (J) and the fixture quick connector (K).  
**Note: For ADJUSTABLE models, make sure the mounting brackets (Q) are up against the fixture body.**

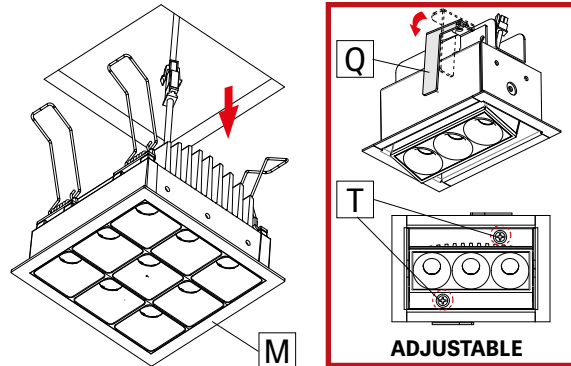
10



Compress the springs (L) Upwards and install the fixture (M) into the cut out. **For ADJUSTABLE models, there is no springs.** Hold the fixture in place and fasten 2 or 4 screws (T) (do not overtighten). So, the mounting bracket (Q) will be rotated and the fixture (S) will be fixed in place.

11

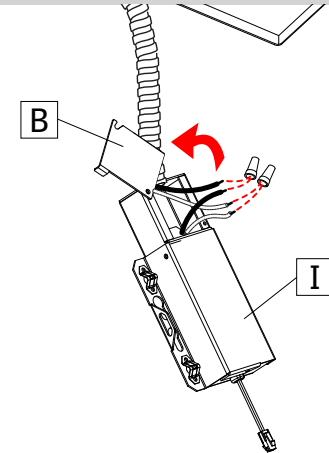
### DRIVER REPLACEMENT



Pull the fixture (M) down and disconnect the quick connector between the driver and the fixture (M). **For ADJUSTABLE models, there is no springs.** Unscrew 2 or 4 mounting screws (T). So, the mounting bracket (Q) will be rotated and located up against the fixture body. Remove the fixture.

12

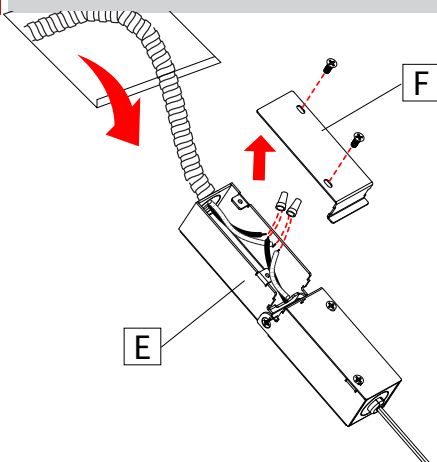
### STANDARD INTEGRAL DRIVER



Pull the integral driver box (I) down through the cut out. Unfasten the screw slightly and pivot the cover (B) to disconnect the wires.

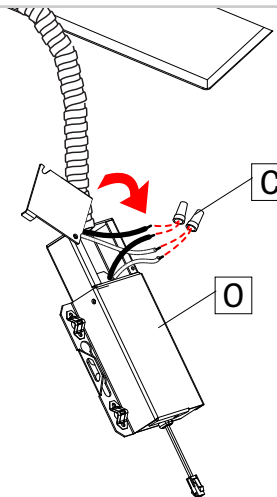
13

### 1x1 & 1x2 INTEGRAL DRIVER



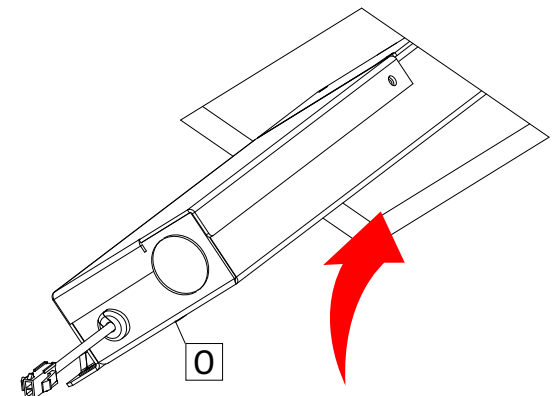
Pull the integral driver box (E) down through the cut out. Unscrew to remove the cover (F). Disconnect the wires.

14



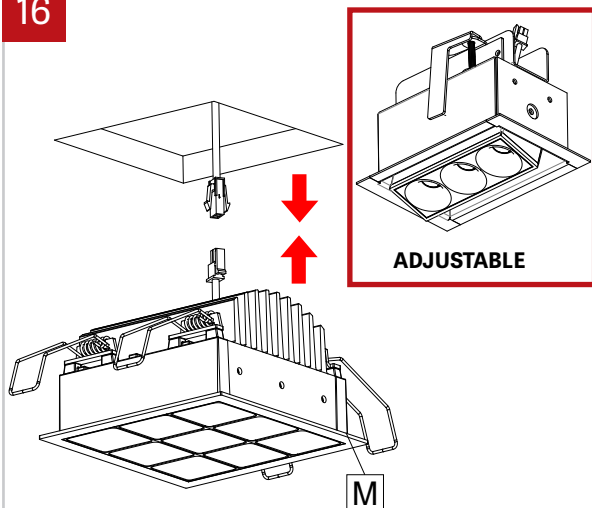
Replace to the new driver (O). Make the electrical connection with the marettes (C). Place the new driver (O) into the ceiling.

15



Place the new integral driver box (O) into the ceiling.

16



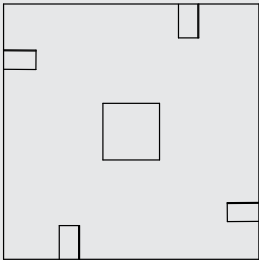
For the connection between the driver and the fixture (M), repeat step 9 and 10.



# CLUSTER

RECESSED-MILLWORK-MW-INST

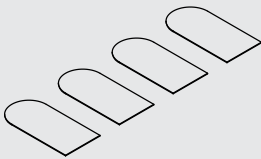
NOTE: Wire dimming conductors as Class 1



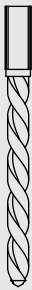
MILLWORK JIG INCLUDED



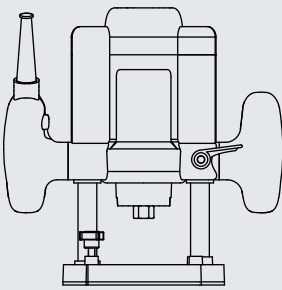
5/16 MINIATURE RABBETING BIT WITH 1/8" CUR DEPTH INCLUDED (FOR TRIMLESS ONLY)



3M COMMAND POSTER STRIP #136 (QTY. 40) INCLUDED



DRILL BIT TO START HOLE NOT INCLUDED



ROUTER NOT INCLUDED



WOOD CHISEL NOT INCLUDED

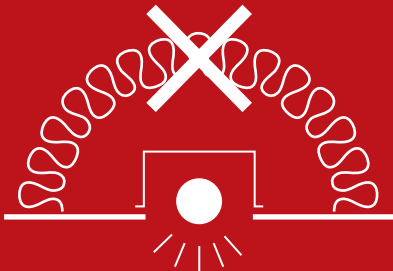


This product must be installed in accordance with the National Electrical Code and all applicable local codes, by a person familiar with the construction and operation of the product, and the hazards involved. proper grounding is required for safety.

Ce produit doit être installé suivant le code national de l'électricité, ainsi que tous les codes locaux applicables, par une personne familière avec la construction et le fonctionnement du produit, ainsi que tous les risques qui y sont associés. La mise à terre électrique est obligatoire pour la sécurité.

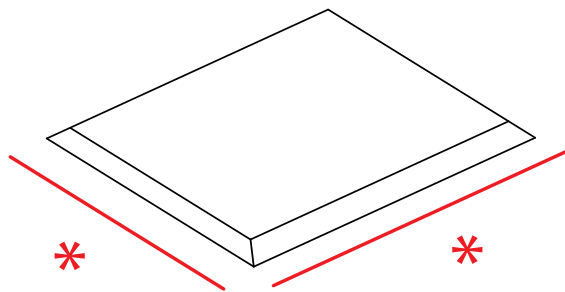


Cluster 3x3, 5x5, 10x1 and 15x1 do not install with insulation directly on the fixture.



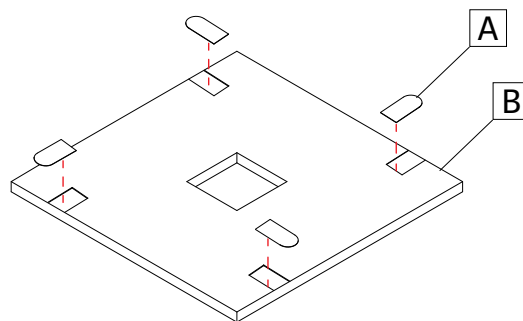
	CLUSTERS	DIMENSIONS	
		Cut-out	
		TRIMLESS	TRIM
Linear	CLUC01	1.300" x 1.300"	1.56" x 1.56"
	CLUC02	2.500" x 1.300"	2.75" x 1.56"
	CLUC03	3.700" x 1.300"	4" x 1.56"
	CLUC05	6.100" x 1.300"	6.38" x 1.56"
	CLUC10	12.100" x 1.300"	12.38" x 1.56"
	CLUC15	18.100" x 1.300"	18.37" x 1.56"
Planar	CLUC22	2.500" x 2.500"	2.81" x 2.81"
	CLUC33	5.700" x 5.700"	4" x 4"
	CLUC55	6.100" x 6.100"	6.38" x 6.38"

1



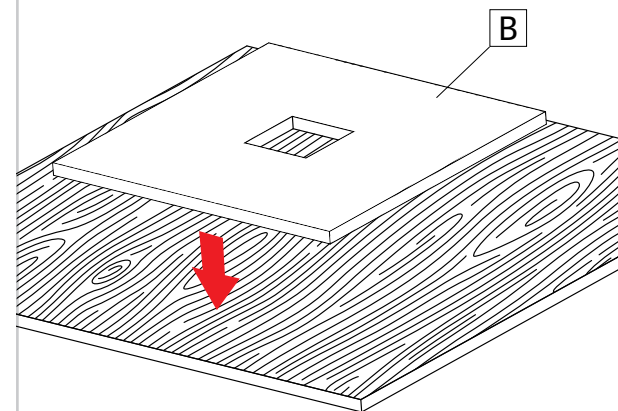
Prepare and clean wood surface. Refer to the table on previous page for dimensions.

2



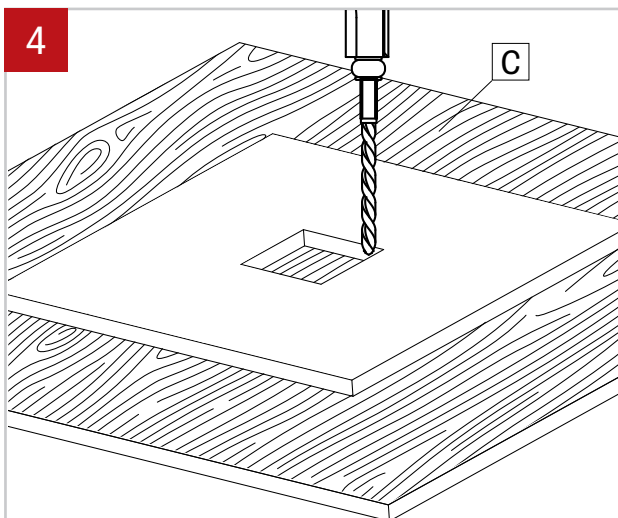
Place the double sided adhesive (A) onto the Millwork jig (B)

3



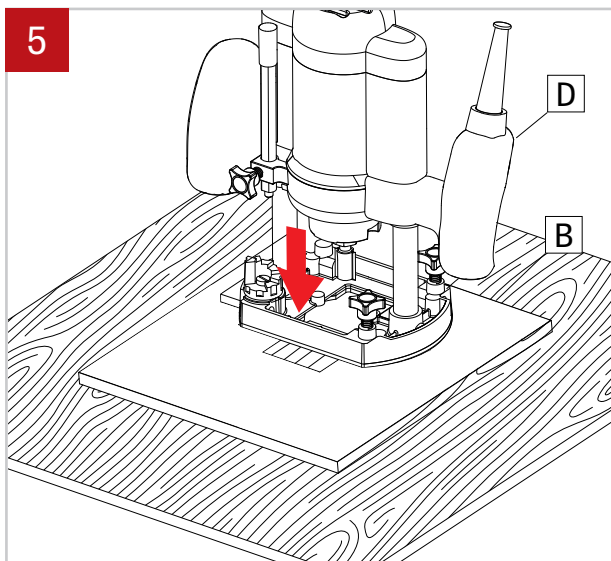
Align and install the Millwork jig (B) onto the wood ceiling surface.

4



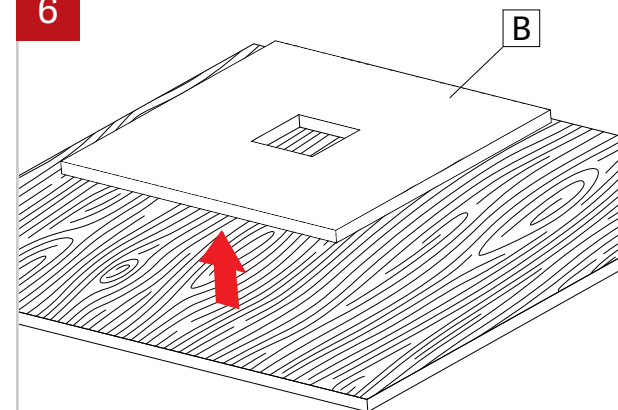
Make the pre-drill holes with the drill bit (C) into the wood ceiling.

5



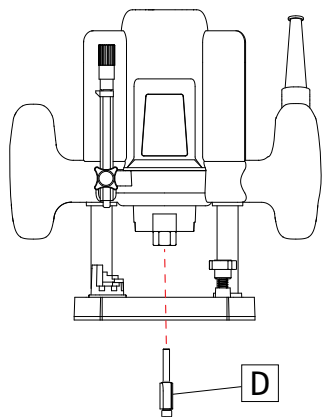
Using the router (D) create hole with the help of the millwork jig (B).

6



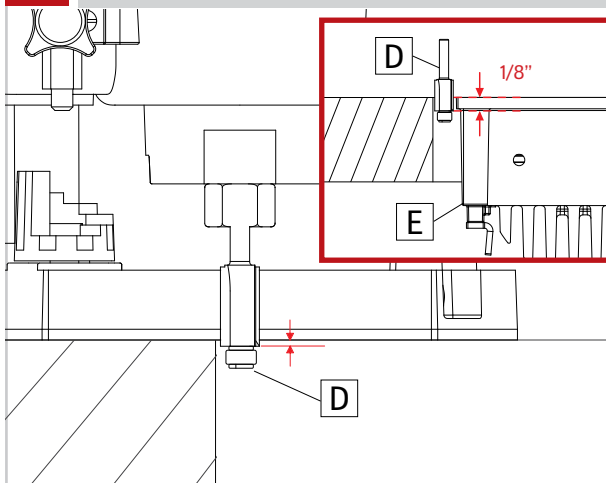
Remove the Millwork jig (B) once cut has been completed.

### 7 FOR TRIMLESS ONLY



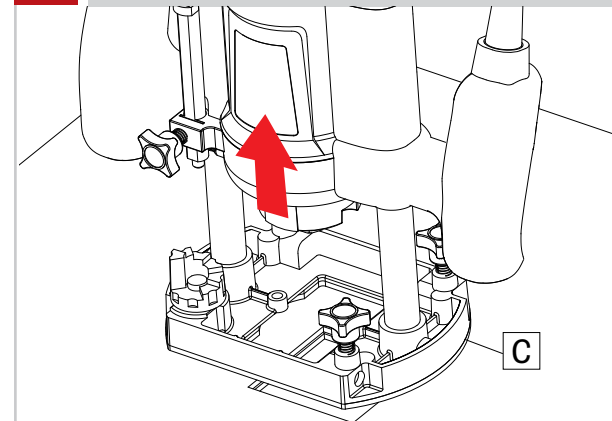
Install the 5/16" Miniature rabbeting tool (D) with a 1/16" cut depth.

### 8 FOR TRIMLESS ONLY



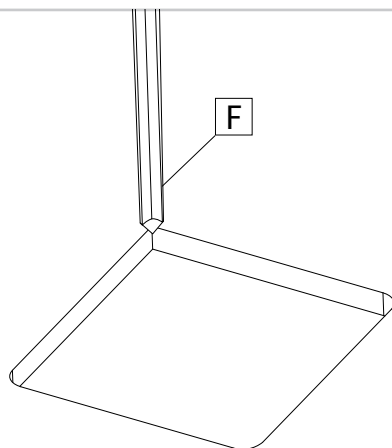
Set depth of rabbeting bit (D) to the height of the trim of the fixture (E) of 1/8"

### 9 FOR TRIMLESS ONLY



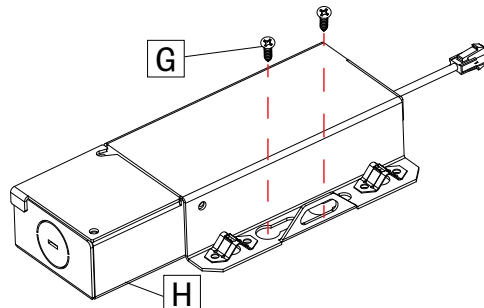
Create the trim recess on the visible surface side for the fixture to sit onto. Remove the router (C) once done.

### 10



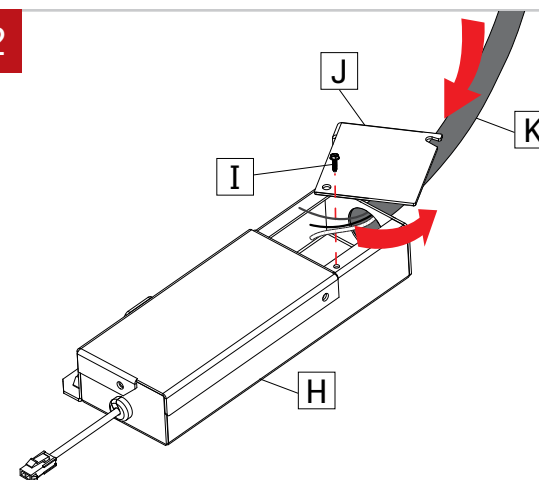
Use a wood chisel (F) to square all corners.

### 11 STANDARD INTEGRAL DRIVER BOX



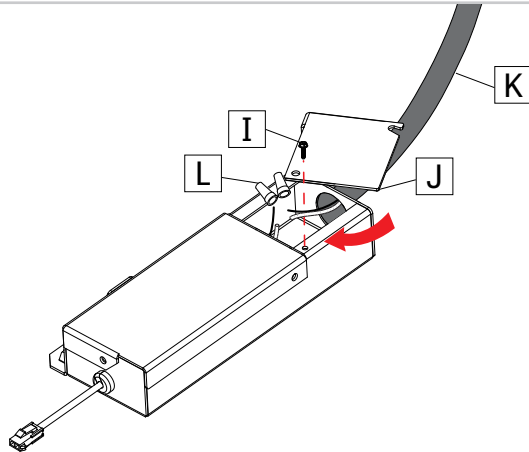
Secure the integral driver box (H) on a solid surface using screws (G). Near the Cut Opening of the fixture.

### 12



Unfasten the screw (I) and pivot the cover (J). Bring the FT-6 cable (K) into the driver box (H).

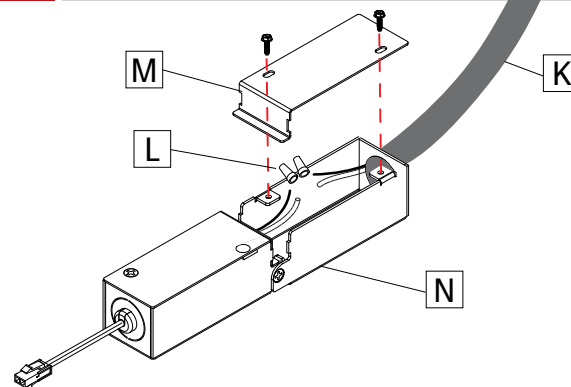
13



Make the electrical connection between the integral driver box (H) and the power chord (K) with the marettes (L). Close the cover (J) and reinstall the screw (I). **1x3, 1x5 and 2x2 models max 5 wires in.**

14

1X1, 1X2 INTEGRAL DRIVER BOX

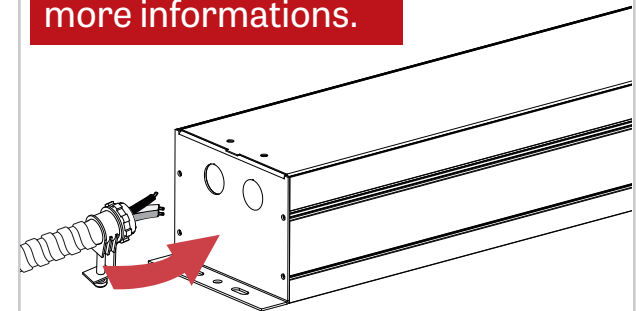


Unscrew to remove the cover (M). Make the electrical connection between the integral driver box (N) and power chord (K) with the marettes (L). Close the cover (J) and reinstall the screw (I). **1x1 and 1x2 max 3 wires in.**

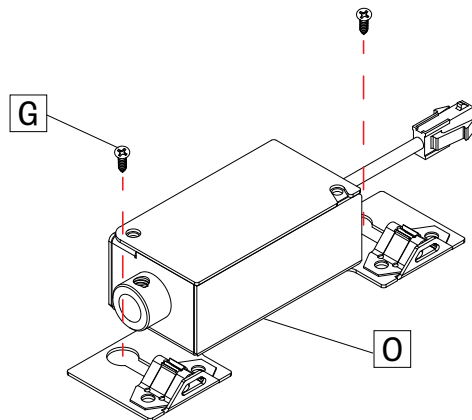
15

REMOTE DRIVER BOX

Please refer to the remote driver installation sheet for more informations.

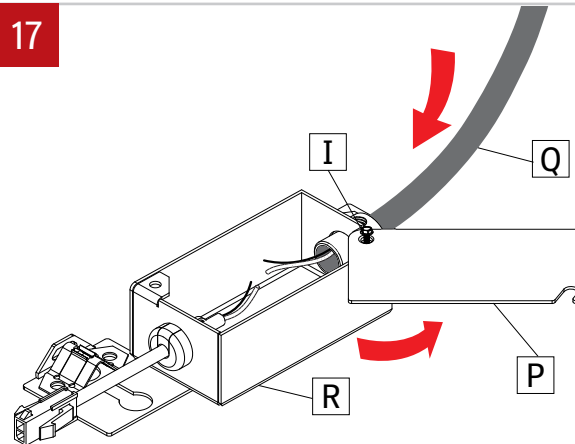


16



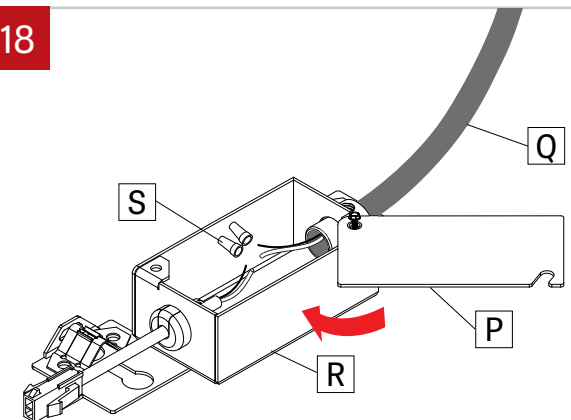
Secure the remote driver box (O) on a secure surface using screws (G). **Skip this step for 1x1 and 1x2.**

17



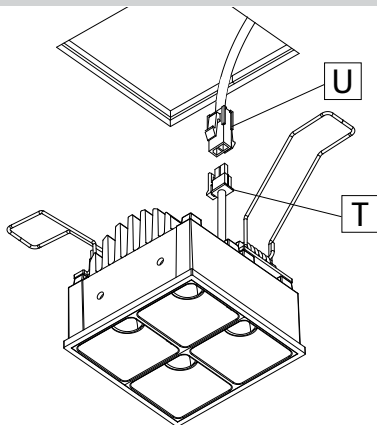
Loosen the screws (I) holding the cover (P) in place. Slide and open the cover (P). Bring the FT-6 cable (Q) into the remote driver box (R).

18



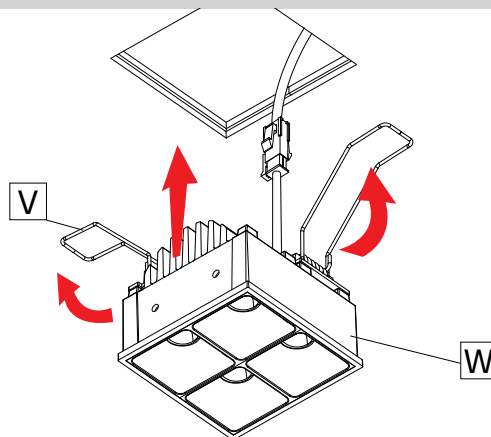
Make the electrical connection between the remote driver box (R) and the FT-6 cable (Q) with the marettes (S). Close the cover (P) and tighten the screws (I). **Number of wires may vary.**

### 19 TRIMLESS



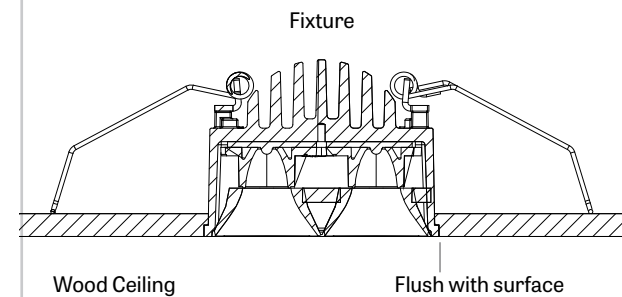
Make the connection between the driver quick connector (U) and the fixture using the quick connectors (T).

### 20 TRIMLESS



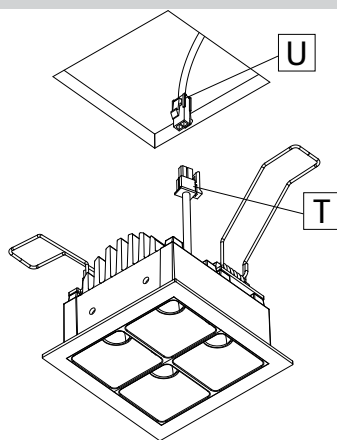
Compress the springs (V). Upwards and place the fixture (W) into the cut out.

### 21 TRIMLESS



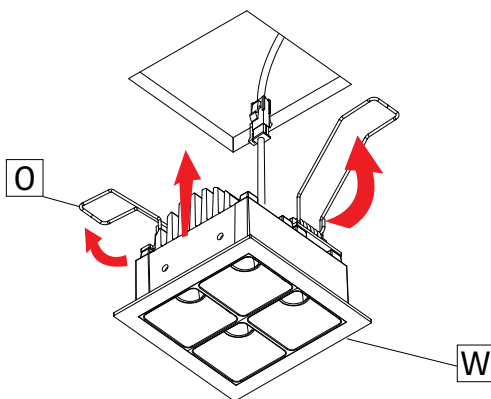
Final result section view.

### 22 TRIM



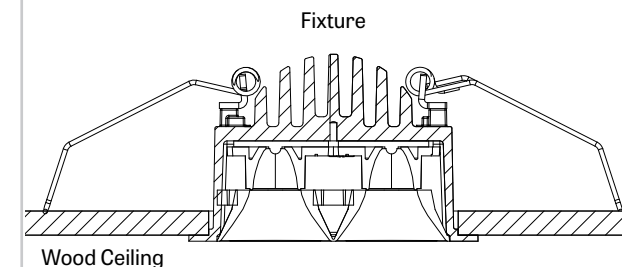
Make the connection between the driver quick connector (U) and the fixture using the quick connectors (T).

### 23 TRIM



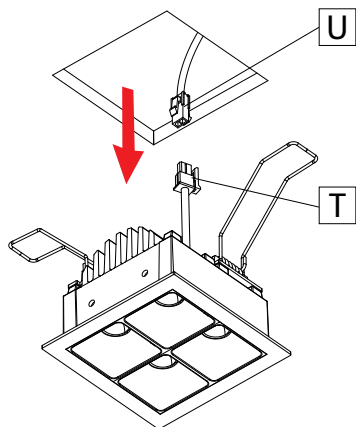
Compress the springs (O). Upwards and place the fixture (W) into the cut out.

### 24 TRIM



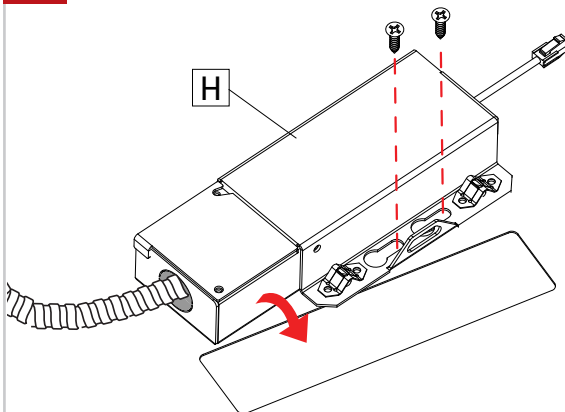
Final result section view.

### 25 DRIVER REPLACEMENT



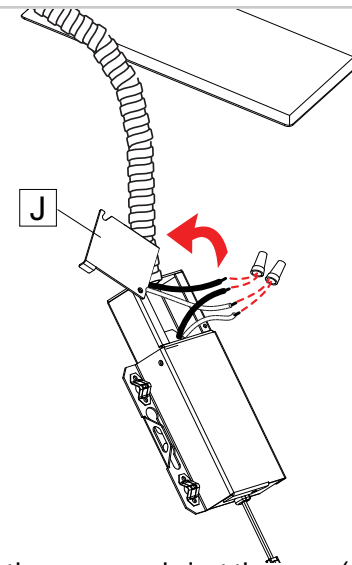
Disconnect between the driver quick connector (U) and the fixture using the quick connectors (T).

### 26



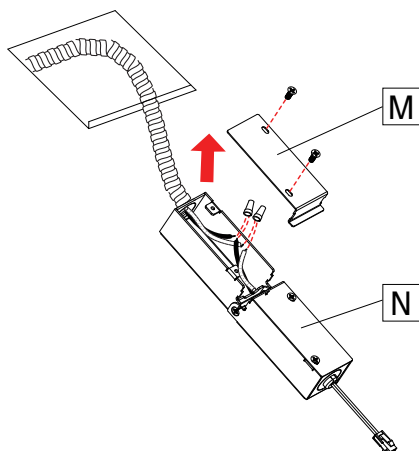
Unscrew to detach the driver box(H). Drag the driver through the cut out.

### 27



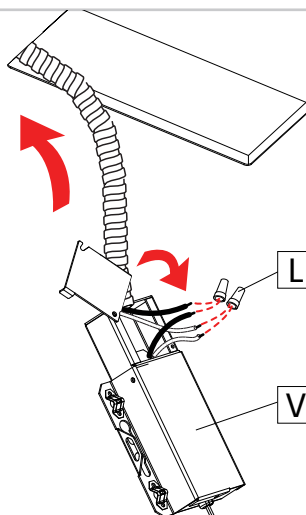
Unfasten the screw and pivot the cover(J). Disconnect the wires to replace the driver box.

### 28 1X1, 1X2 INTEGRAL DRIVER BOX



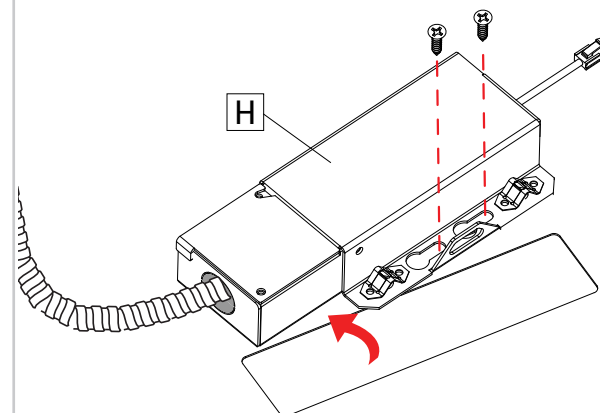
Pull the driver box(N) down through the cut out. Unscrew to remove the cover(M). Disconnect the wires.

### 29



Replace to the new driver(V). Make the electrical connection with the marettes(L) by fasten the screws. Push the driver through the fixture cut-out.

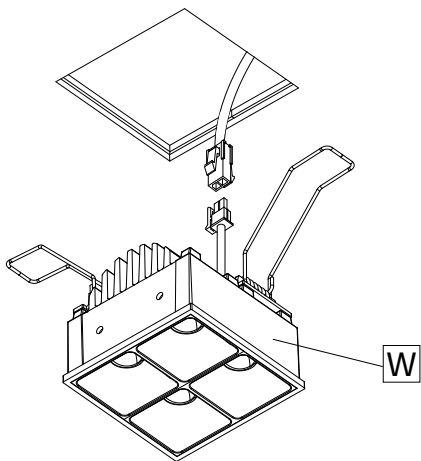
### 30



Screw to attach the driver box(H).



31



For the connection between the driver and the fixture(W), repeat step 18 to step 23.