

INSTALLATION INSTRUCTION

Volta 4.5" Tunable White - New Construction Square Housing

R4SNT, R4SNL



SAFETY INSTRUCTION

IMPORTANT: Never attempt any work without shutting off the electricity.

- Read all instructions before installing.
- System is intended for installation by a qualified electrician in accordance with the National Electrical Code and local regulations.
- Go to the main fuse box, or circuit breaker. Place the main power switch in the "OFF" position and unscrew the fuse(s) or switch "OFF" the circuit breaker switch(es) that control the power to the fixture or room that you are working on.
- Place the wall switch in the "OFF" position.

AVERTISSEMENT

IMPORTANT: Coupez l'électricité avant TOUTE manipulation.

- Lisez toutes les instructions avant d'installer.
- Système est destiné à être installé par un électricien qualifié en conformité avec le code national de l'électricité et les règlements locaux.
- Accédez au panneau central de disjoncteurs ou de fusibles de votre demeure et placez l'interrupteur principal en position d'arrêt (« OFF »).
- Placez l'interrupteur mural en position d'arrêt (« OFF »).

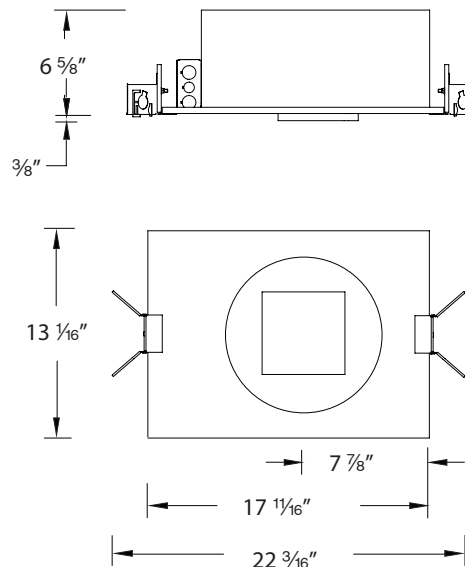
CAUTION:

All parts must be used as indicated in these instructions. Do not substitute any parts, leave parts out, or use any parts that are worn out or broken. Failure to follow this instruction could invalidate the ETL/cETL listing of this fixture.

OVERVIEW:

Housing is new construction Airtight IC or Non-IC (Refer to table below). Housing requires a trim for a finished look. Refer to specification sheets for compatible trim options.

OVERALL HOUSING DIMENSION



SPECIFICATIONS	
Input:	120-277V; 50/60 Hz
Installation:	Non-IC for -36 model (44W)
	IC for -25 model (29W)
	IC for -15 model (20W)
Dimming	DMX for T-X model 0-10V for T-Z model

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FIG. 1 HANGER BAR

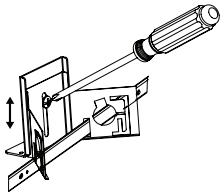


FIG. 2 1/2" CHANNEL

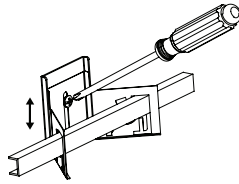


FIG. 3 3/4" CHANNEL

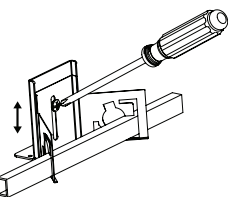


FIG. 4 1 1/2" CHANNEL

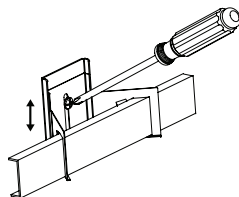


FIG. 5 ROUND CHANNEL

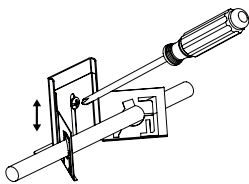


FIG. 6

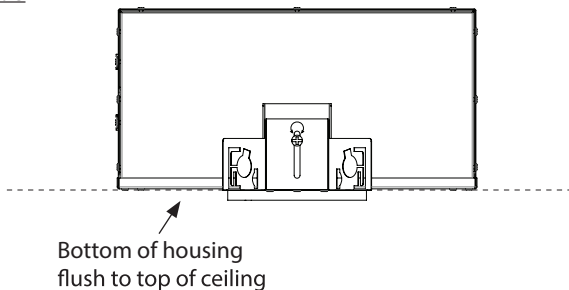
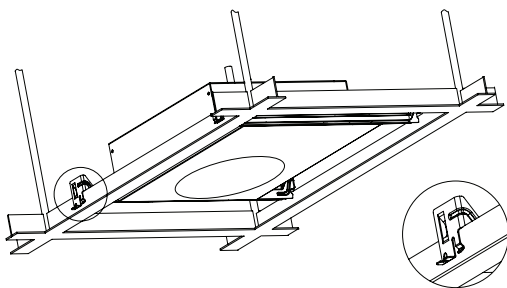


FIG. 7



HOUSING INSTALLATION:

1. Housing features mounting bracket that can be used with hanger bars or various channel supports (See **FIG. 1-5**).

Adjust the brackets to proper height by loosening the wing screw such that the bottom of housing is flush to top of finished ceiling plane (See **FIG. 6**). Retighten screws securely.

2. Pinch the two flanges of the brackets towards each other. Slide the male and female hanger bars or other channel supports through the appropriate hole in the brackets.

3. A. For hanger bar installation on grid:

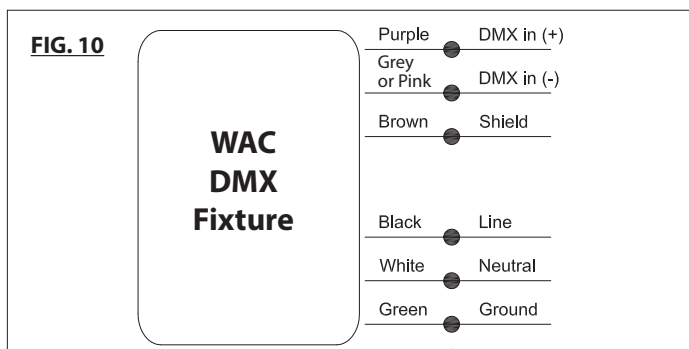
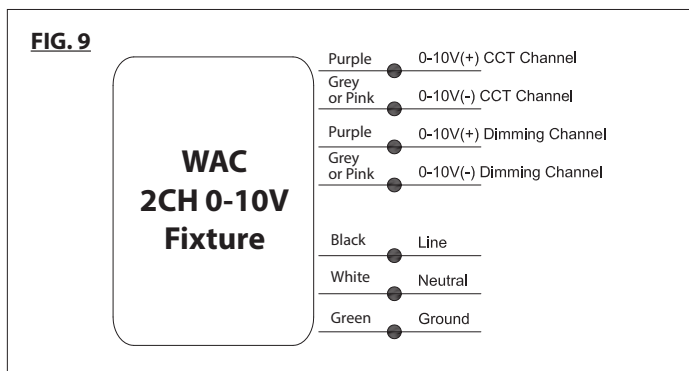
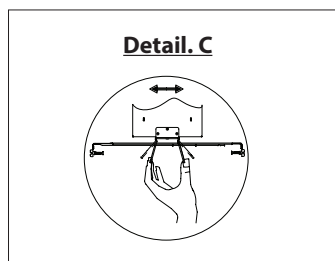
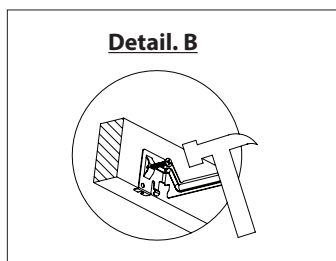
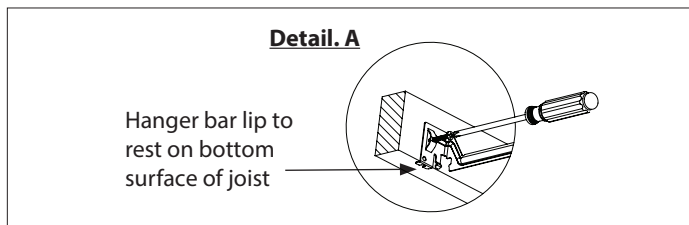
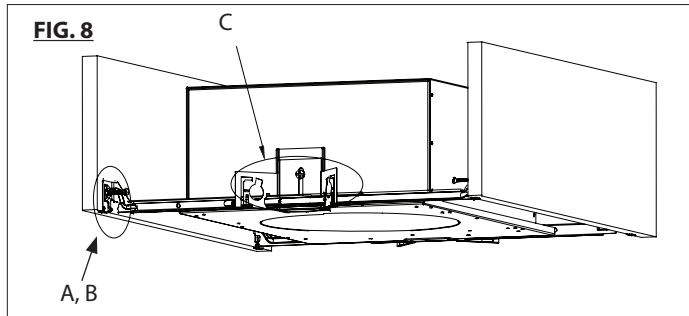
Hanger bars are notched on the ends to fit over "T" bars in suspended ceilings. Support with tie wires (by others) to upper ceiling structure (See **FIG. 7**).

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B. For hanger bar installation on joists:

Install the hanger bar and housing assembly such that the lip of the hanger bar rests on the bottom surface of the joist. Use a screw-driver or hammer to secure the "screw-nail" into the wood (See **FIG. 8**)

- Pinch the adjustable bracket and slide the housing along the hanger bars to the desired position (See **Detail. C**). Release to secure the housing in place.
- Connect fixture wires to building wires: insert each supply wire into appropriate connector.
 - For 0-10V control [**T-Z** models] (See **FIG. 9**): Two 0-10V input signals are used to achieve CCT and intensity changing. Recommended maximum of 500ft of 18 ga 0-10V communication wiring.
 - For DMX control [**T-X** models] (See **FIG. 10**): Two DMX input channels are used to achieve CCT and intensity changing. Factory default Channel 1 is intensity changing and Channel 2 is CCT changing. If differing channels are desired in the field, use of a RDM compatible control console can reassign channels.

It is recommended to use cable specifically designed for DMX. These cables have an impedance of 120Ω and a low capacitance. For instance: Belden 9841 or 3105a. At the last fixture, the cable to be terminated with a 120Ω resistor between the DMX (+) and DMX (-) pinouts to prevent reflections of the signal. The resistor value of the resistor on the last driver should be kept the same as the resistor of signal wires.

Recommended maximum of 500ft of cabling from controller to last fixture.

After 32 unit loads a repeater/booster is recommended.

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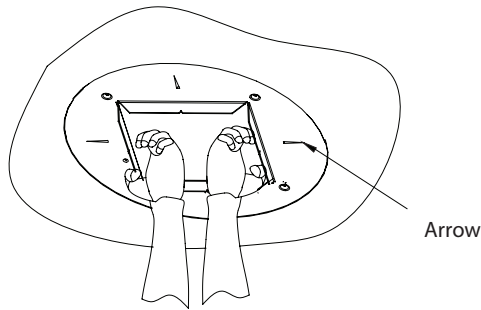
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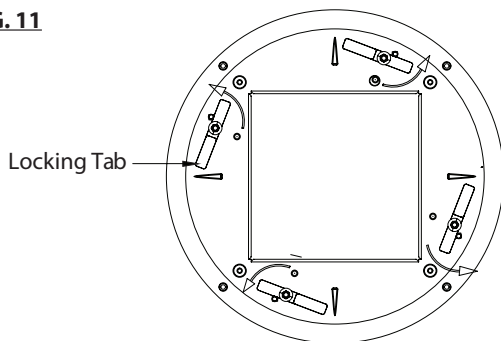
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FIG. 10



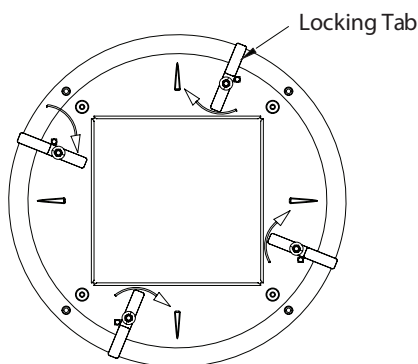
Unlock and adjust angle for trim mounting plate

FIG. 11



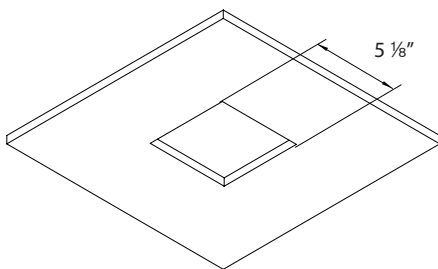
Counterclockwise rotation to unlock position

FIG. 12



Clockwise rotation to lock position

FIG. 13



- Square trim mounting plate comes from factory aligned with housing. Should additional adjustments be necessary for field alignment, reach inside housing and unlock 4 locking tabs by counterclockwise rotation. Once free, align the square trim mounting plate. Arrows provided to assist with indexing. Relock mounting plate in desired position by clockwise rotation of locking tabs to "click" lock position. Once all locking tabs are locked, review for confirmed stability. (See FIG. 10, 11 & 12)

- Cut a 5 1/8" x 5 1/8" square cutout in the ceiling at the point of installation and install ceiling (See FIG. 13).
- Refer to installation instructions for appropriate trims to complete the installation.

Note: Ceiling thickness table below.

Trim Model	Trim Description	Ceiling Thickness		
		1/2"	1"	1 1/2"
R4SD2T, R4SD2L	<i>Downlight</i>	Yes	Yes	Yes
R4SD1T, R4SD1L	<i>Shallow Regressed Downlight</i>	Yes	Yes	Yes
R4SAT, R4SAL	<i>Adjustable</i>	Yes, to 45°	Yes, to 45°	Yes, to 35°
R4SWT, R4SWL	<i>Wall Wash</i>	Yes	Yes	No

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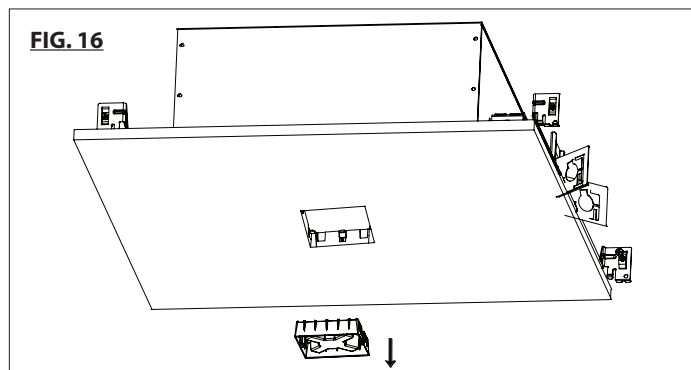
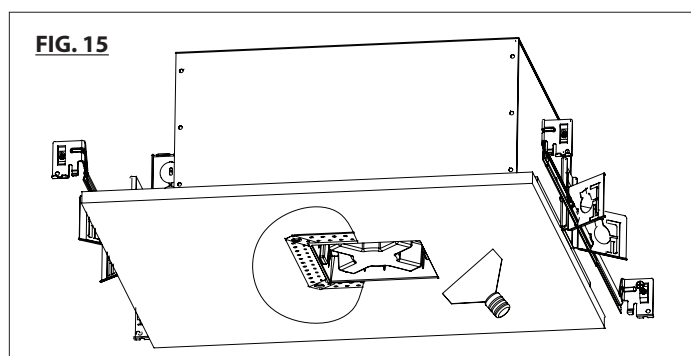
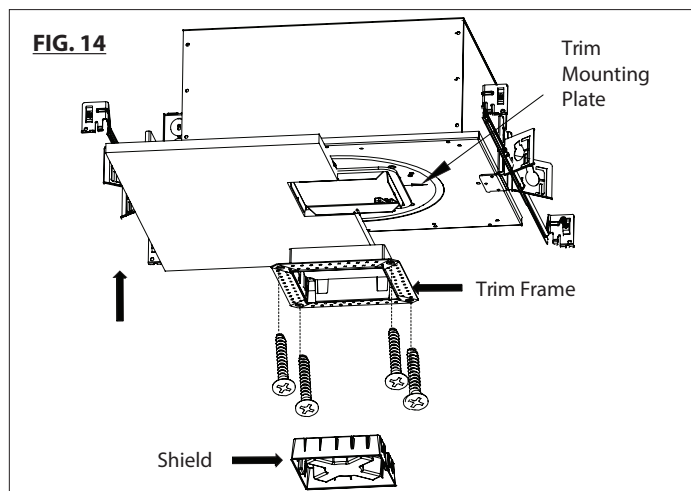
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TRIMLESS HOUSING INSTALLATION

1. Repeat the same procedure as above from step 1 to step 7.
2. Raise the Trimless frame into trim mounting plate, and secure by using the screws supplied. Put plaster shield inside trim opening. (See **FIG. 14**)
3. Apply plaster or spackle over trim frame and sand surface when dry for a finished look. (See **FIG. 15**)
4. Remove the plaster shield when finishing is complete. (See **FIG. 16**)
5. Refer to installation instructions for appropriate trims to complete the installation.