



ROOFTOP UNIT

AERO 2503, 12V, 13 kW

**DESIGNED FOR MINI / MIDI BUSES (WITH SIDE DUCTS)
W. ELECTRONIC CONTROLLER
P.N.4700-503**

- ALEX ORIGINAL RESERVE THE RIGHTS TO MAKE CHANGES IN ITS PRODUCTS WITHOUT ADVANCE NOTICE.



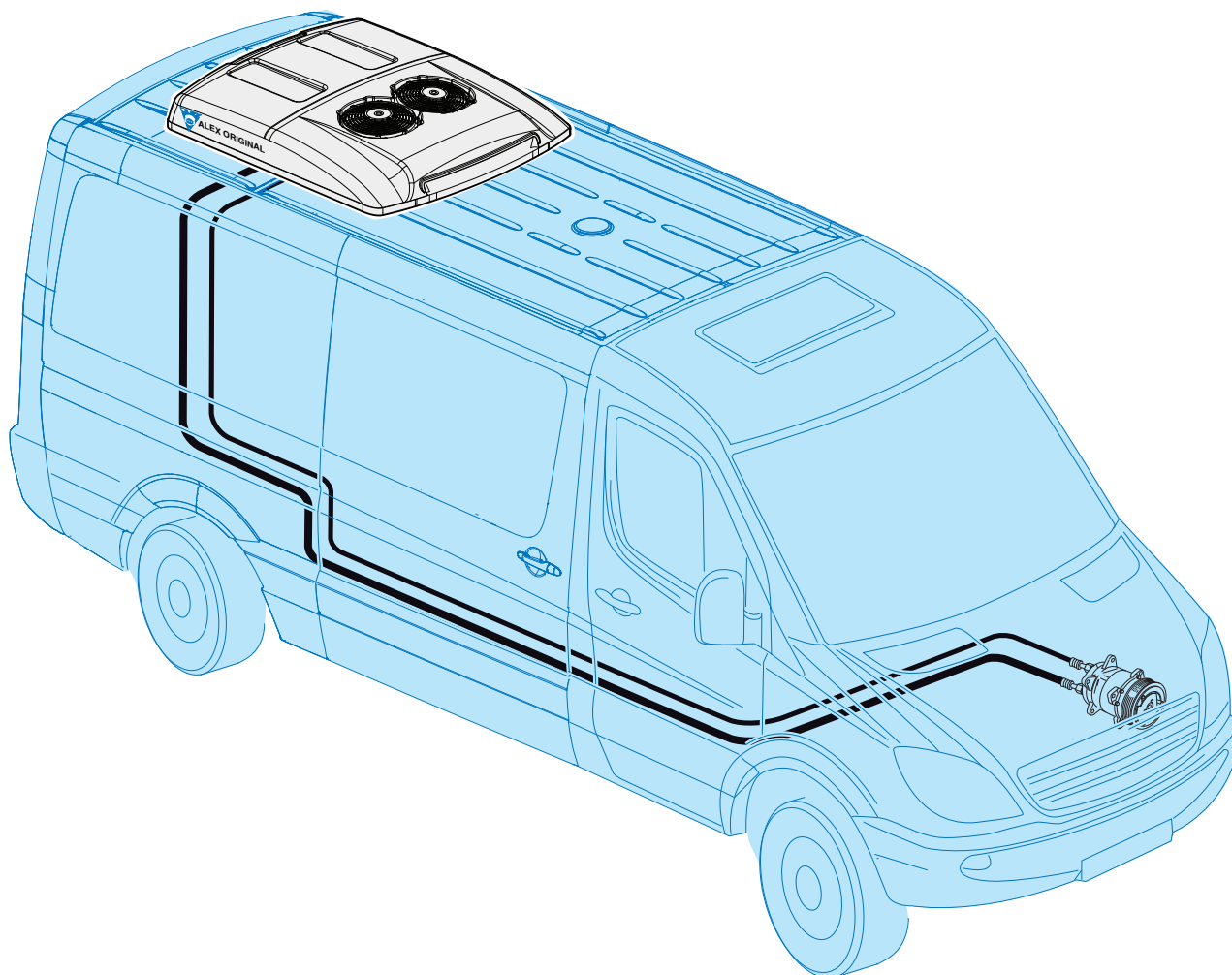
AERO 2503•12V

AERO 2504•24V

ROOFTOP UNIT

(DESIGNED FOR MINI / MIDI BUSES WITH SIDE DUCTS)

W. ELECTRONIC CONTROLLER



	4700-503	4700-504
Refrigeration capacity at ambient temperature 30°C	11.5kw	12.5kw
Refrigerant	R-134a	
Refrigerant charge for 134a	1050gr.	
Refrigerant charge for 134a connected to front AC	2400gr.	
Oil charge (in addition to the existing in the compressor)	70cc	
Rooftop Unit weight	40kg	

AERO 2503 • Rooftop Unit • 12V • 4700-503

AERO 2504 • Rooftop Unit • 24V • 4700-504

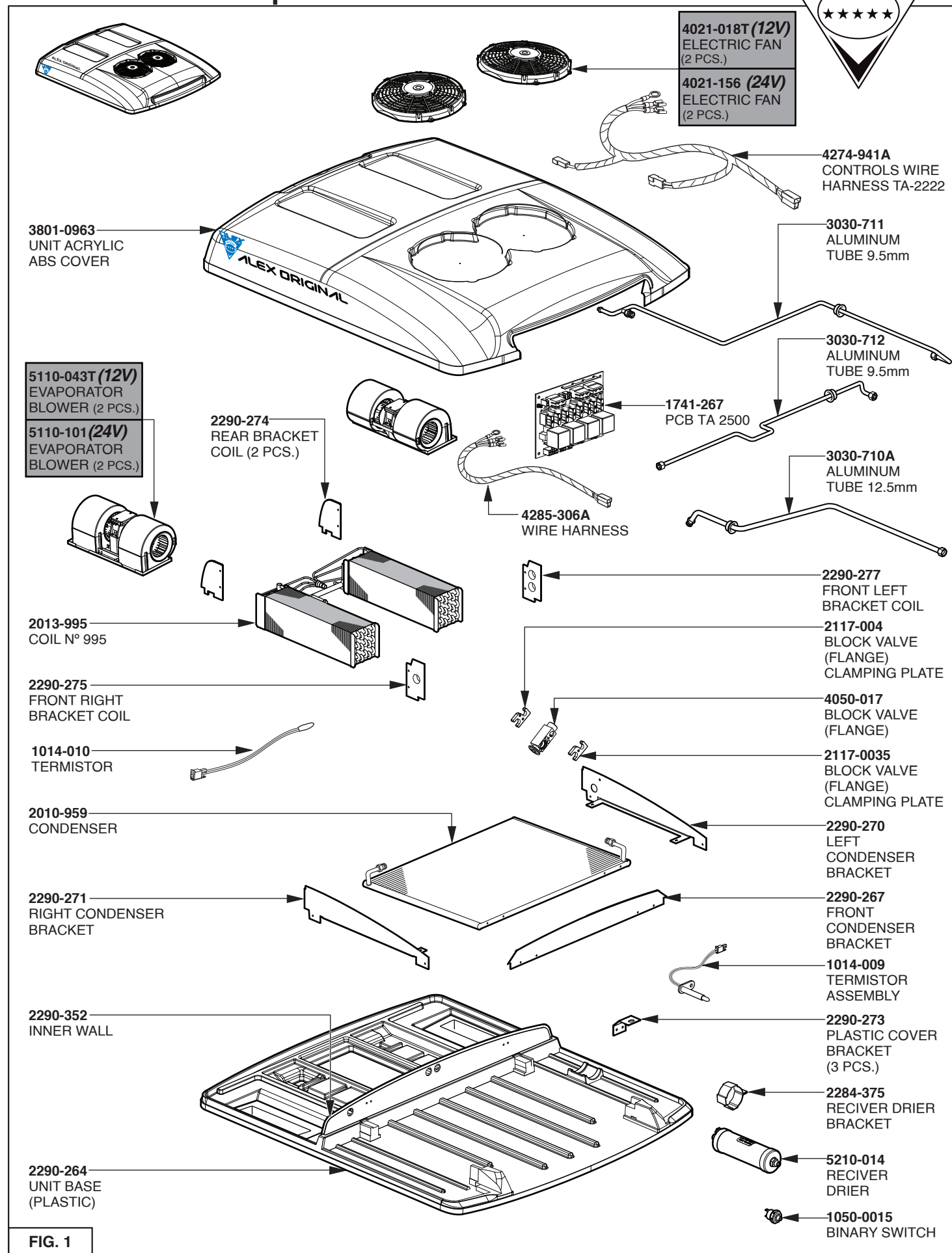
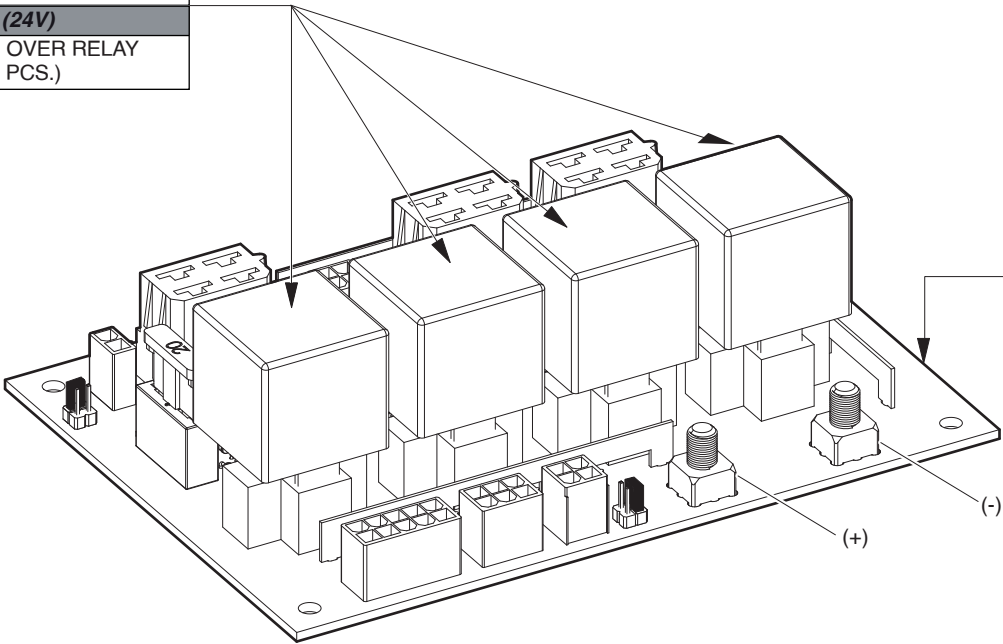


FIG. 1



1010-008 (12V)
RELAY 40A (3 PCS.)
1010-007 (24V)
CHANGE OVER RELAY 20/30A (4 PCS.)



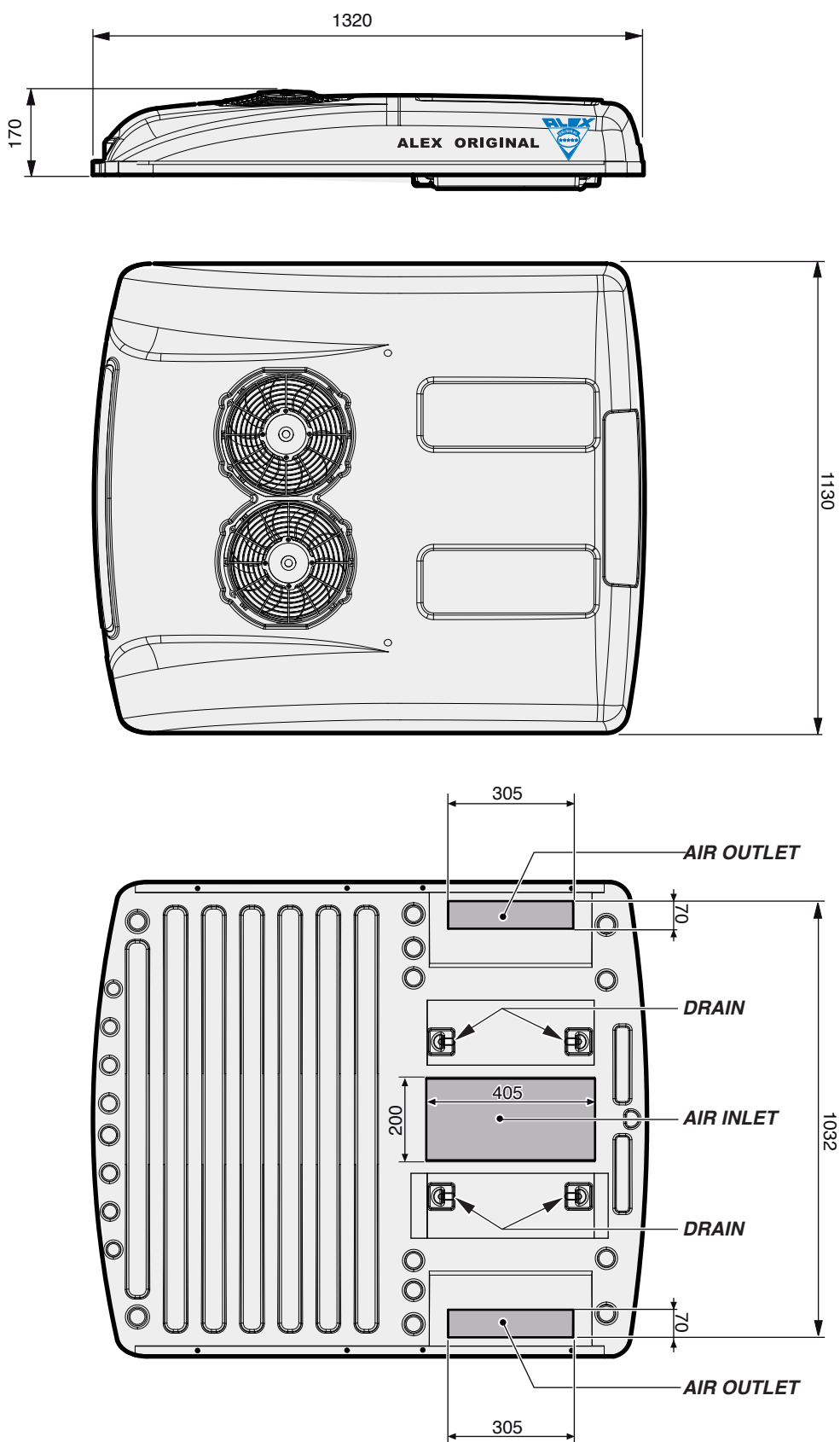
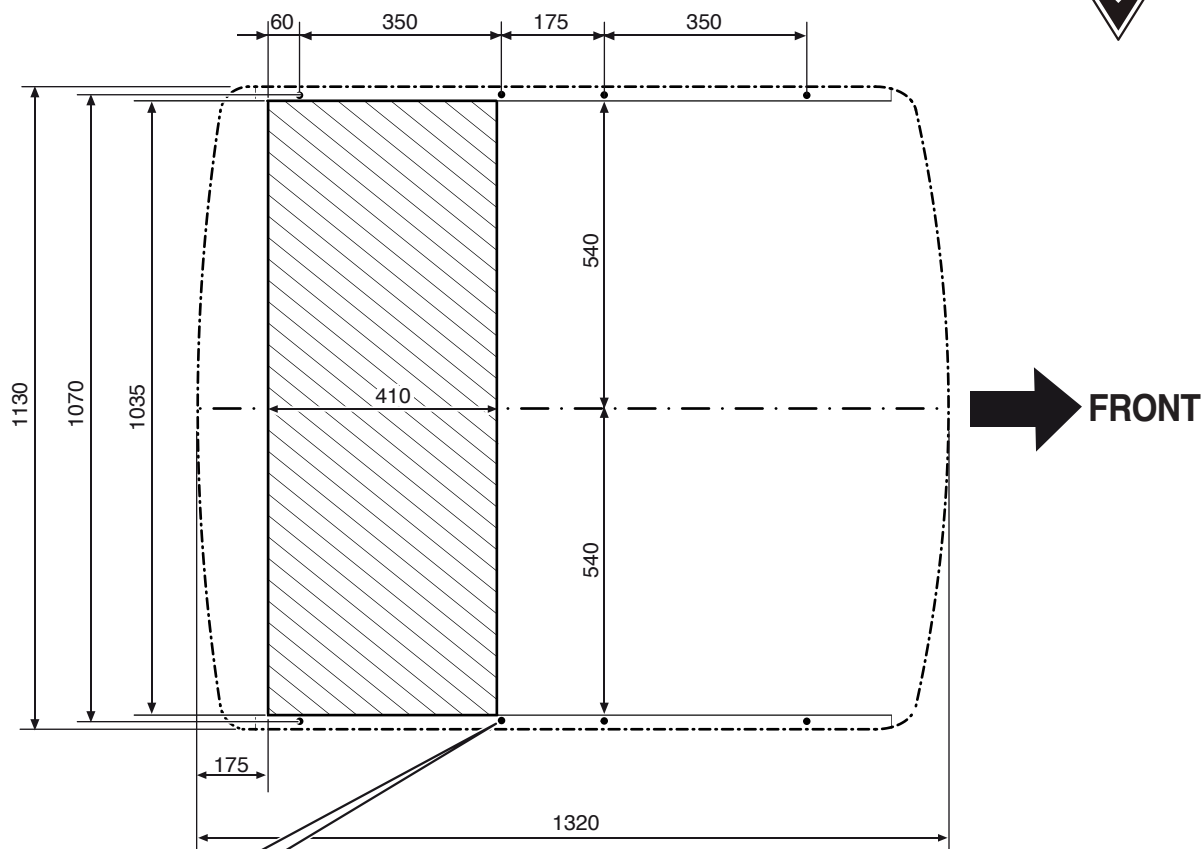
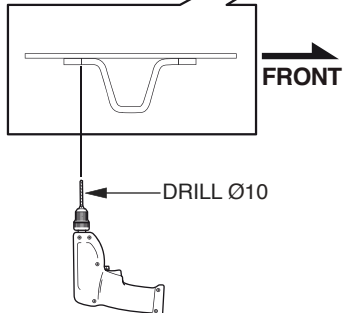


FIG. 2

FIXING POINTS & ROOF OPENING



VIEW A



ROOF OPENING:

BEFORE OPENING THE ROOF, BE CAREFUL NOT TO DAMAGE THE INTERNAL CELLING, WIRES OR COMPONENTS.

MARK AND DRILL 2 HOLES 10mm ON CROSS MEMBER LIP (VIEW A)

540mm ON BOTH SIDES OF ROOF CENTER LINE.

USE THE 2 HOLES TO MARK (ACCORDING TO THE MEASUREMENTS FIG. 4)

THE SIX ADDITIONAL HOLE AND THE OPENING FOR THE UNIT.

IF USING A TEMPLATE, FIX IT USING 2 BOLTS M6x25, MARK THE SIX ADDITIONAL HOLE AND THE OPENING FOR THE UNIT.

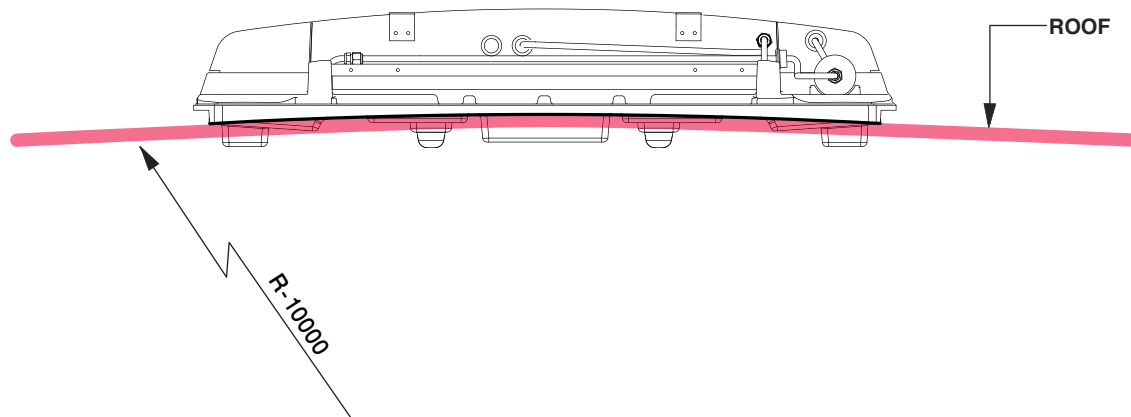


FIG. 3

POSITION THE ROOFTOP UNIT ACCORDING THE 2 HOLES.

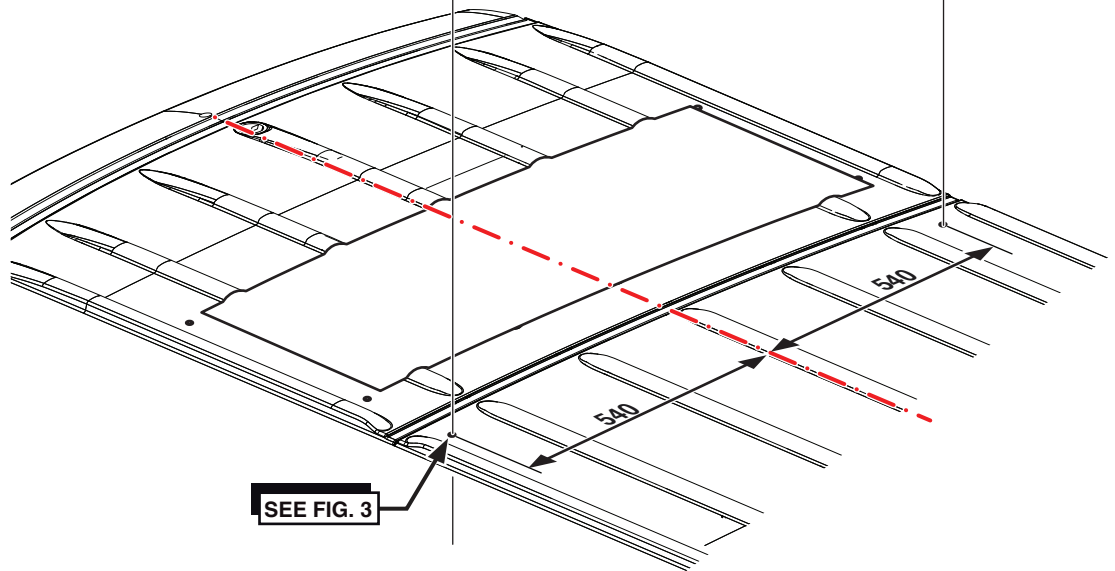
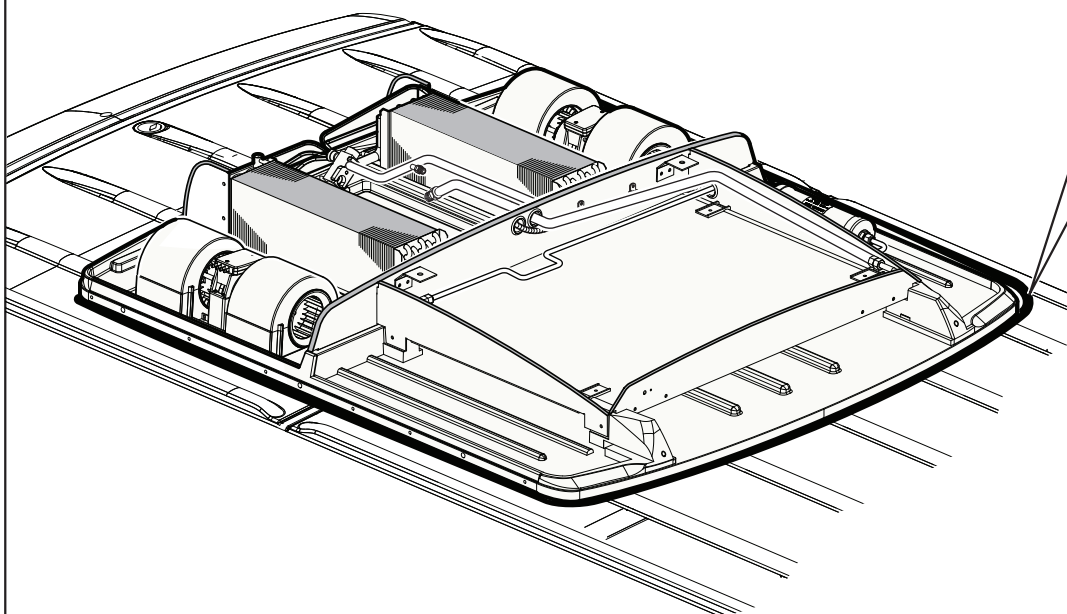


FIG. 4



1. MARK AROUND THE UNIT.
2. LIFT THE UNIT.

FIG. 5

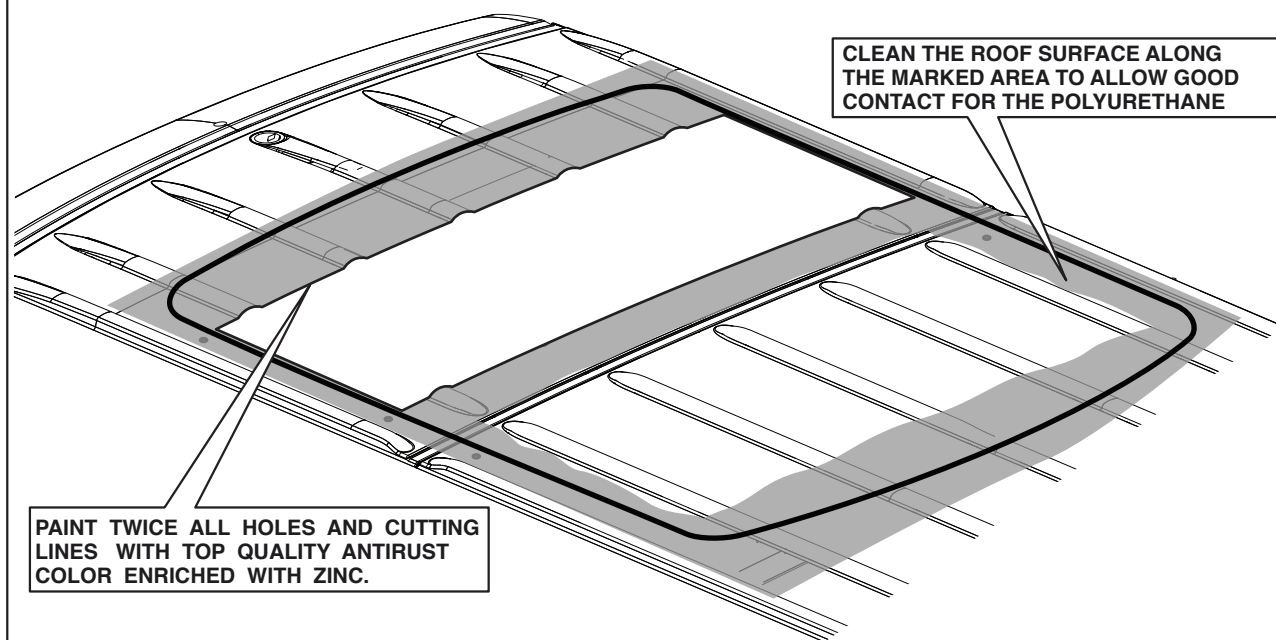


FIG. 6

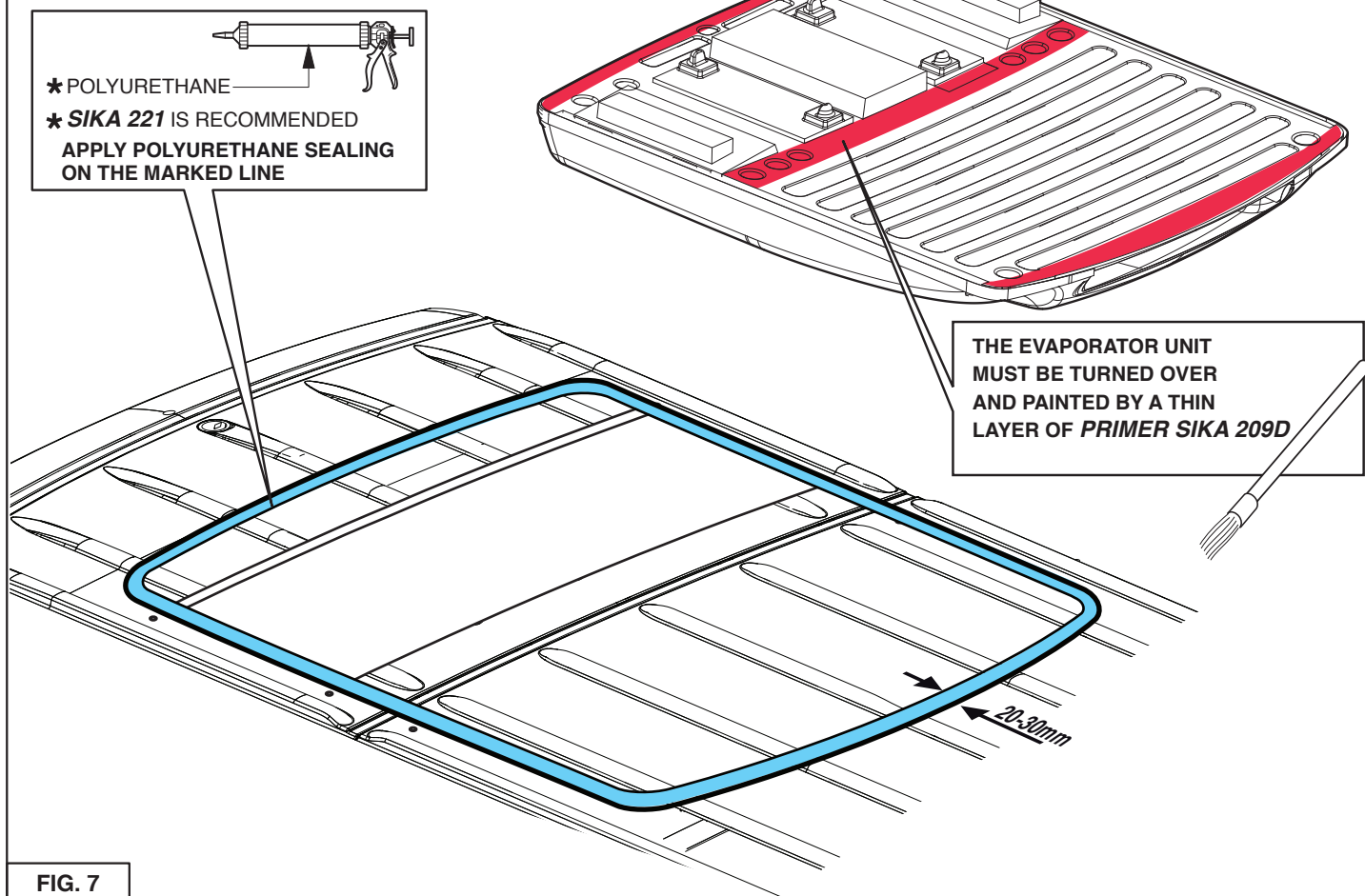


FIG. 7

REINSTALL UNIT ACRYLIC ABS COVER.

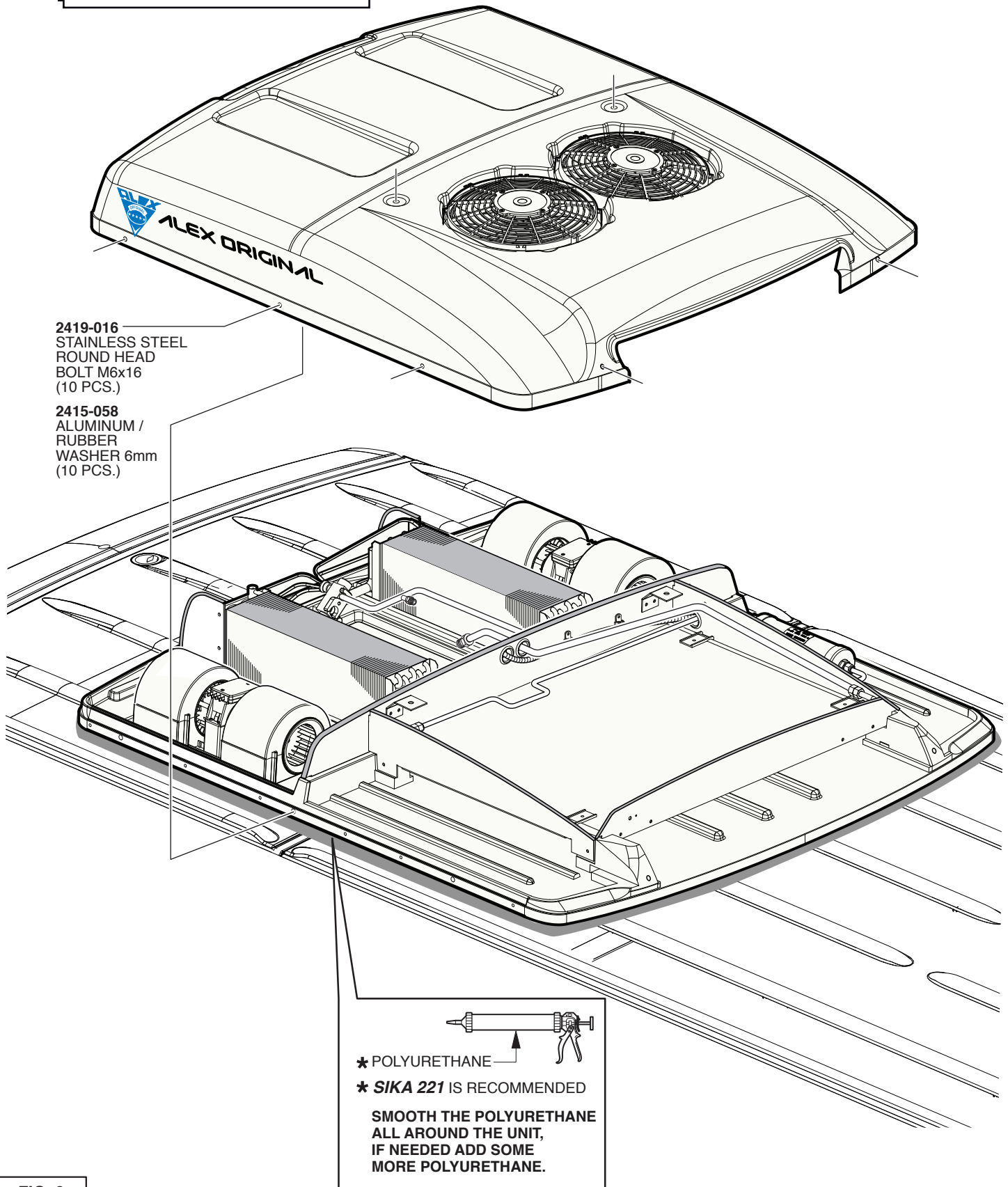
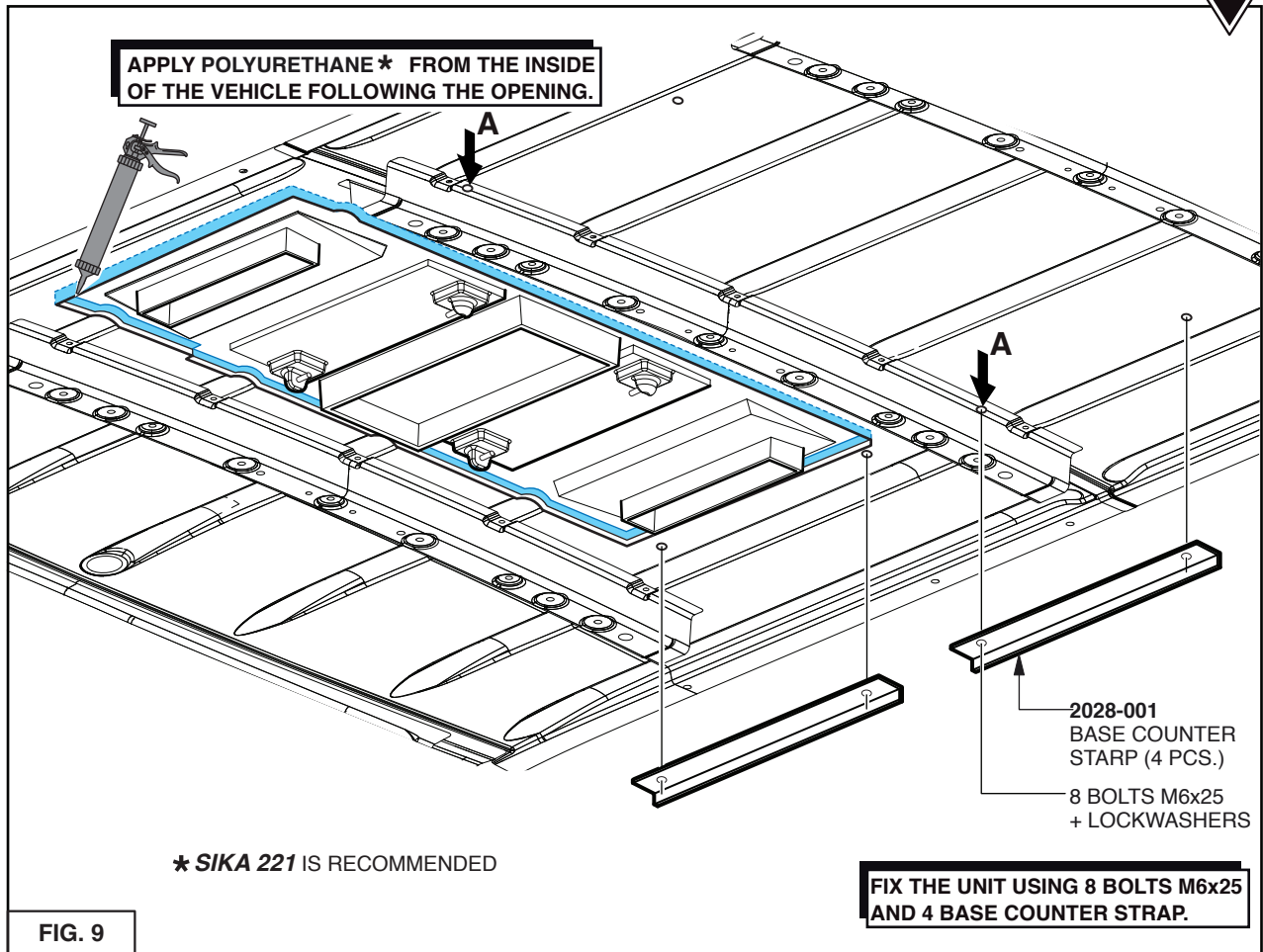
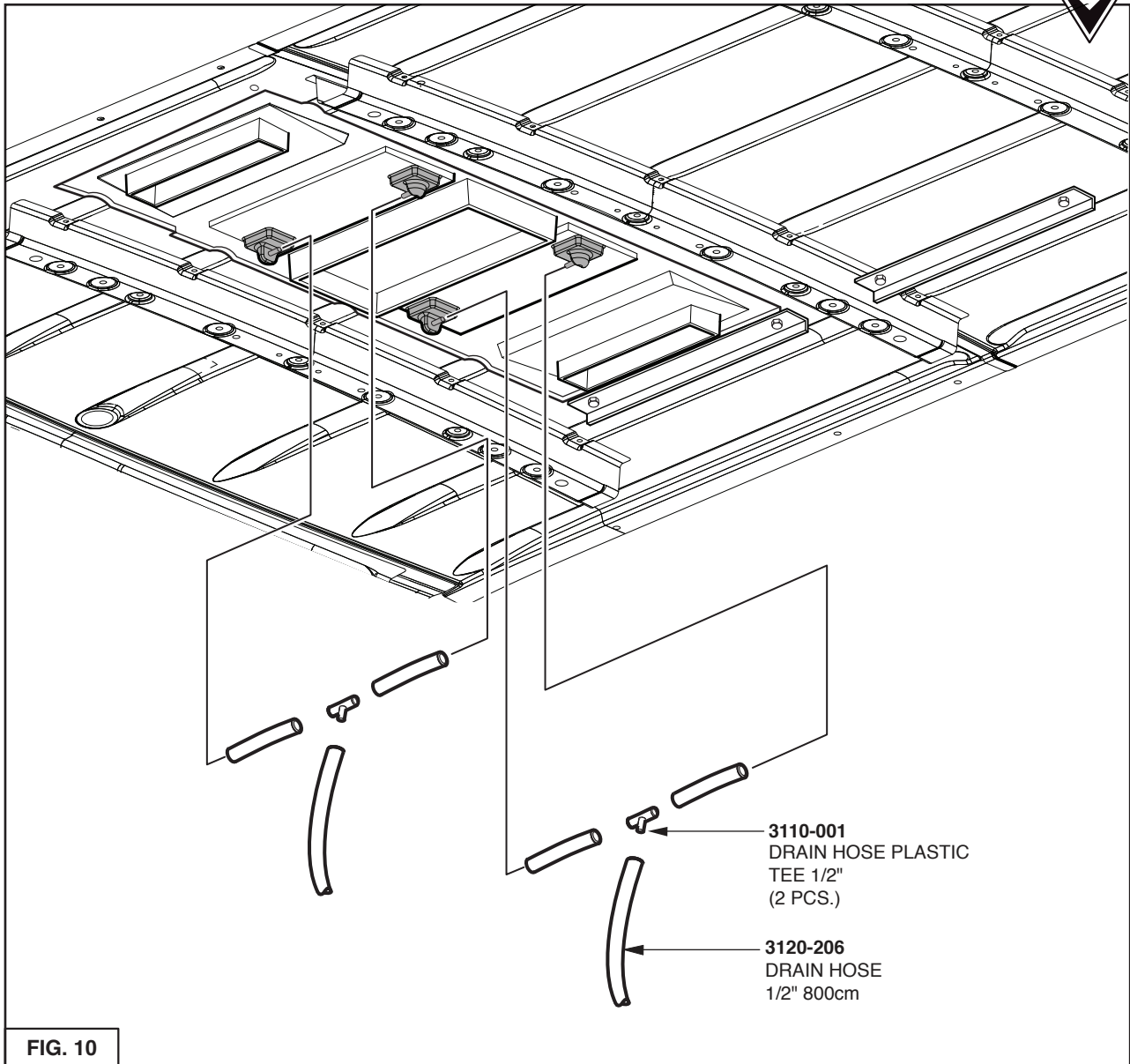


FIG. 8





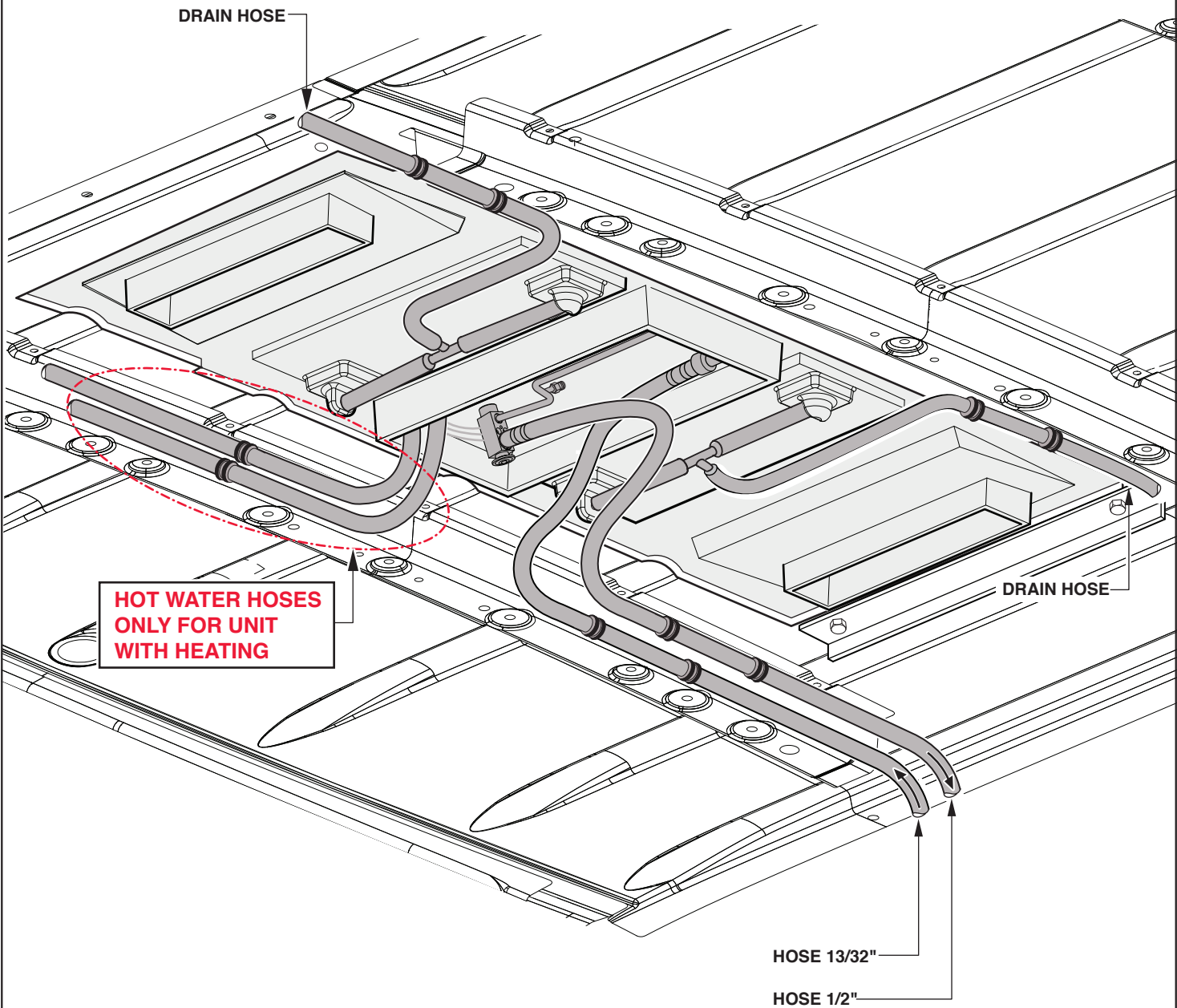
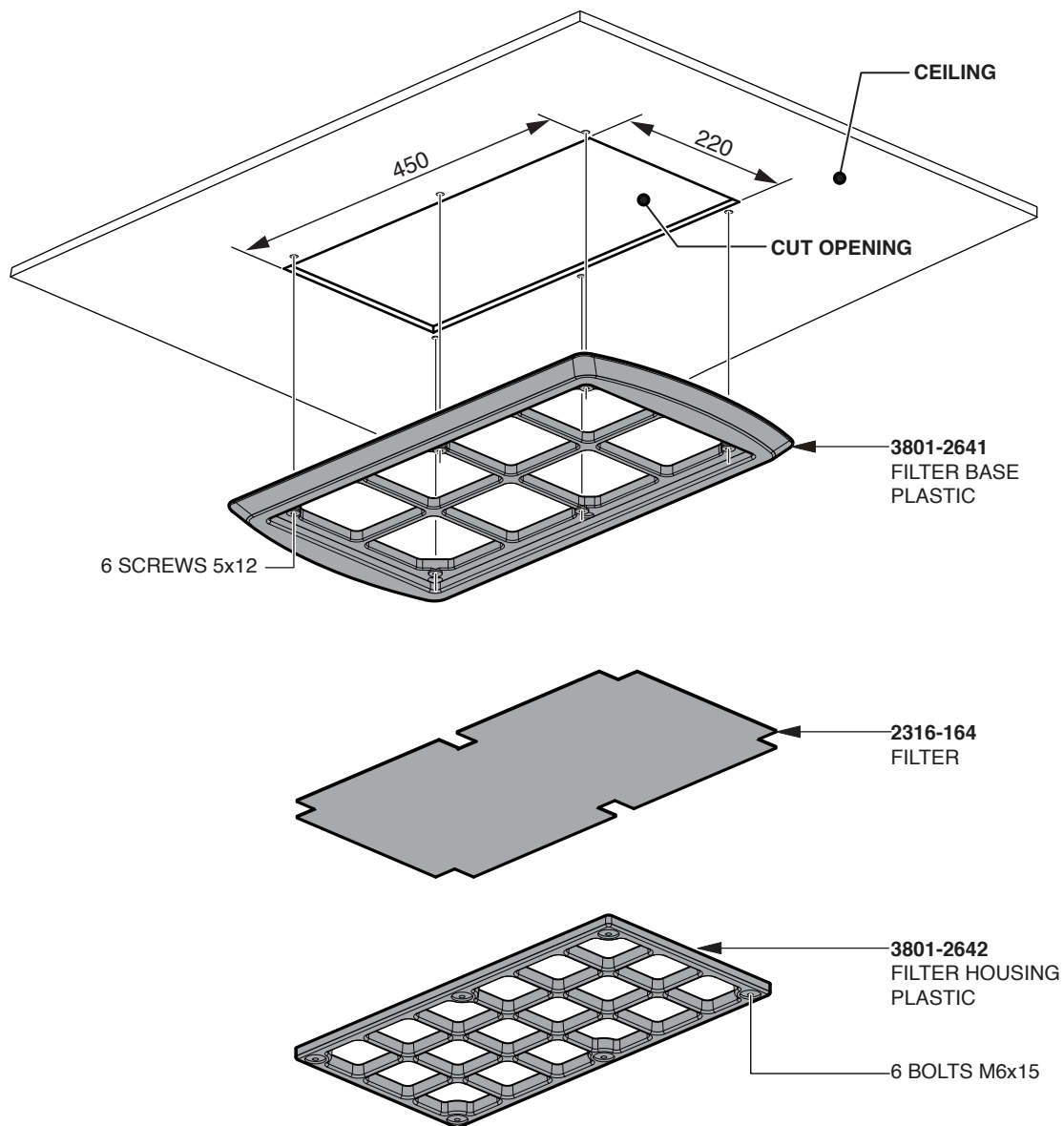


FIG. 11



AIR FILTER ASSY. (P.N. 3801-264)

AERO 2503 • Rooftop Unit • 12V • 4700-503

AERO 2504 • Rooftop Unit • 24V • 4700-504

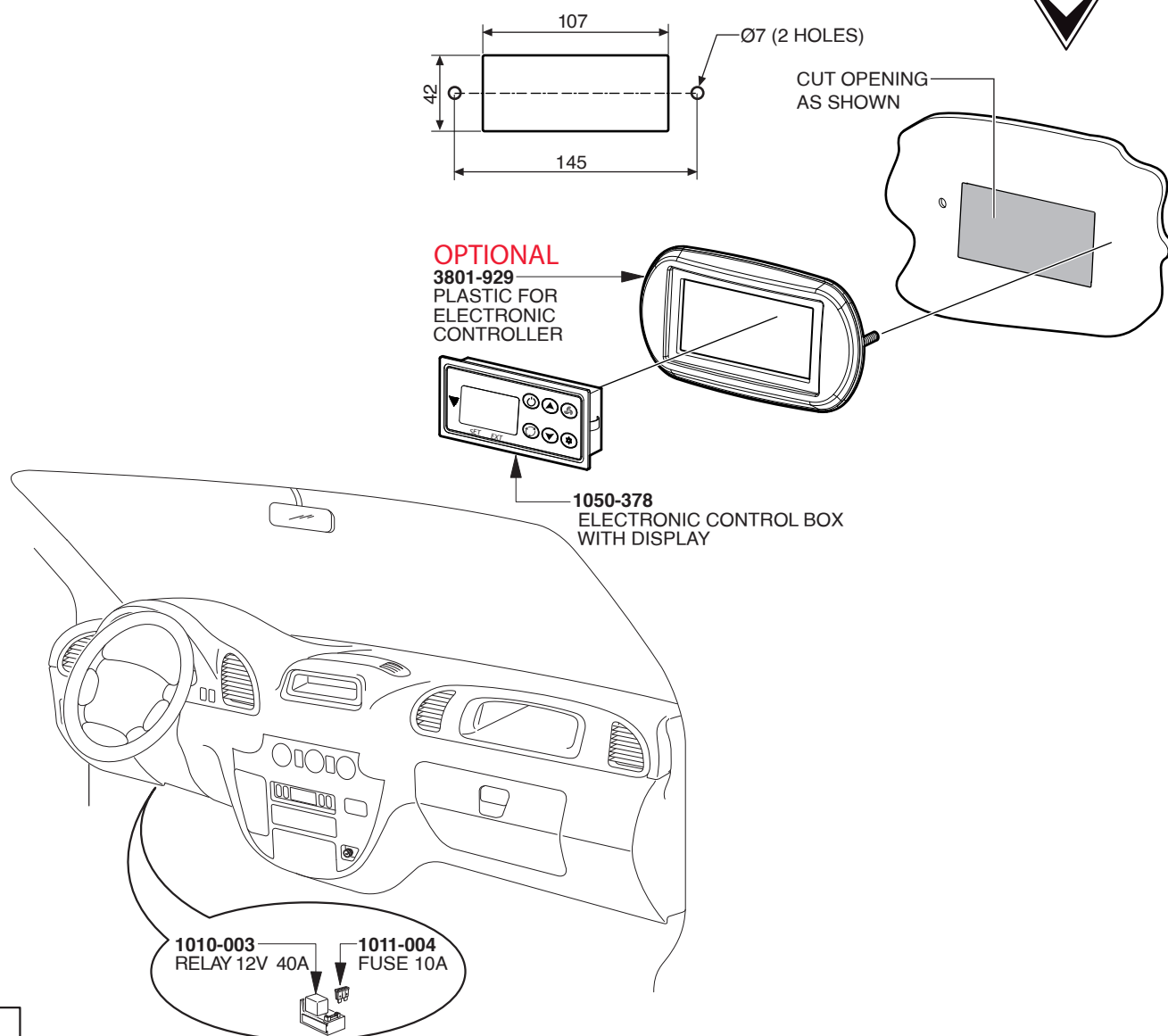


FIG. 13

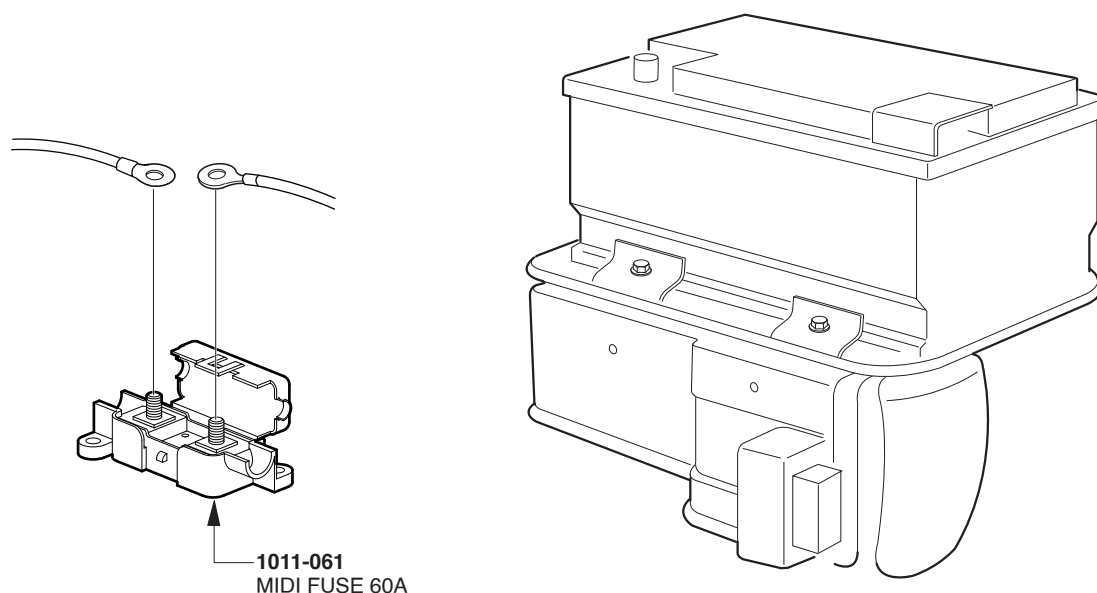
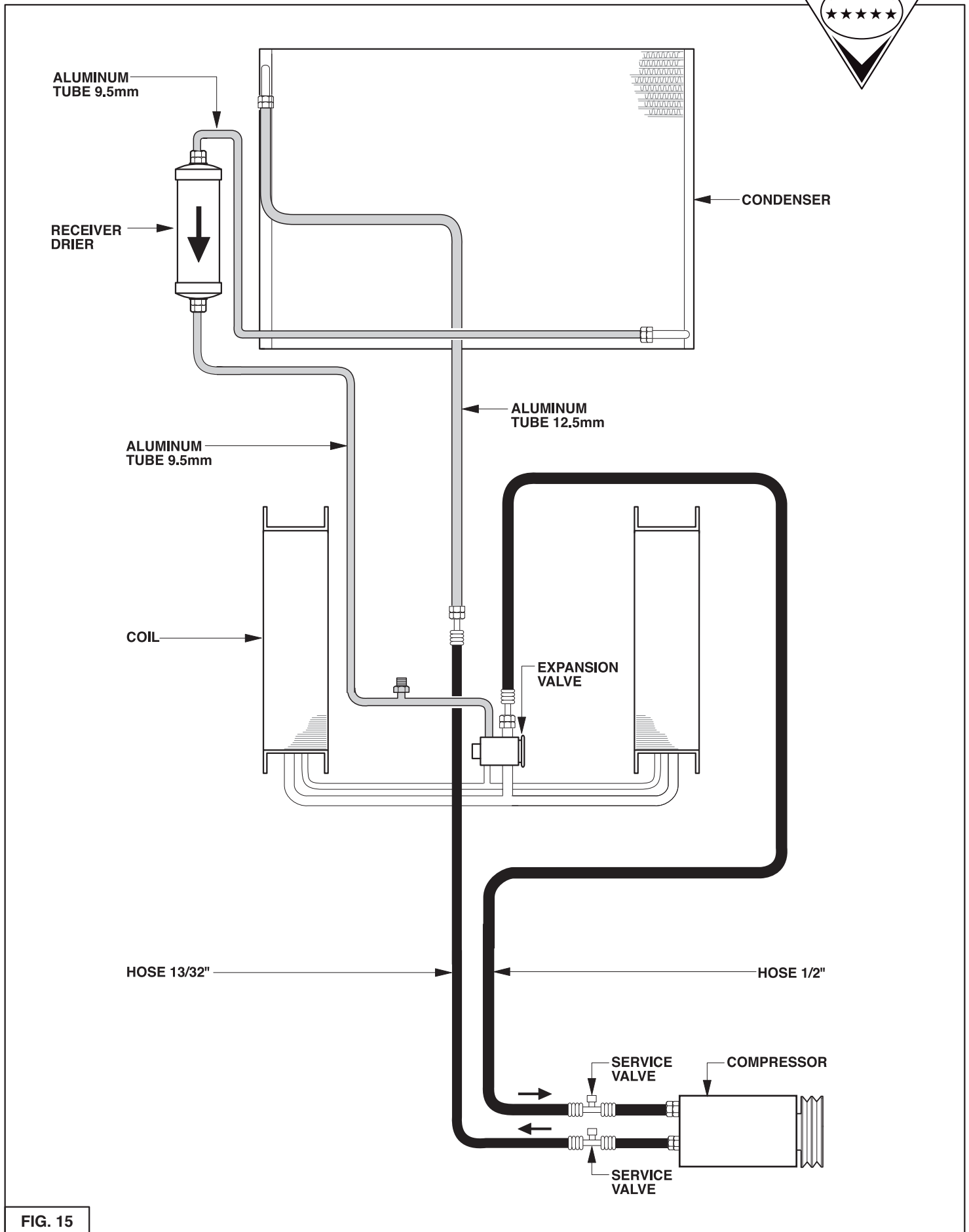
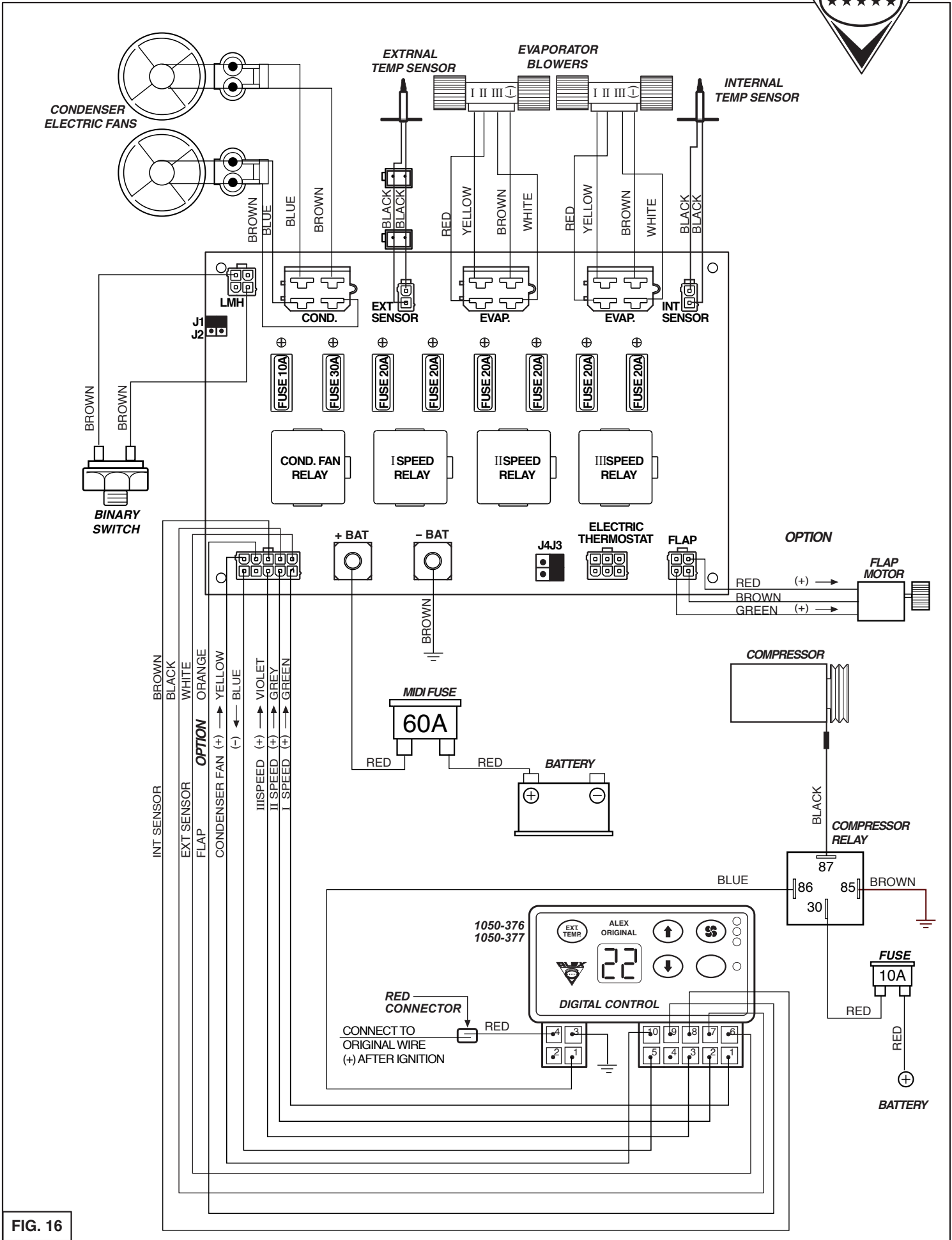


FIG. 14

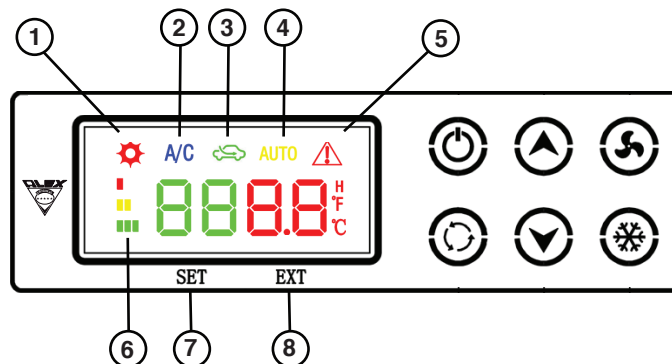


AERO 2503 • Rooftop Unit • 12V • 4700-503
AERO 2504 • Rooftop Unit • 24V • 4700-504



ADVANTAGES

Electronic climate control. Automatic fan speed adaptation according to temperature. Easy readable digital Display. Automatic changeover between heating and cooling. Heating system control. Outside temperature indication. 3 speed internal fan.



1. Heating 2. Cooling 3. Circulation 4. Auto fan 5. Error 6. Fan level 7. Set point 8. Exterior temp

FUNCTION

-  **KEY - Automatic climate control.** Switches on- off the automatic temperature control.
-  **KEY - Blower control.** Increases/decreases blower speed or set to auto.
-  **KEY - Temperature control.** Decreases interior temperature set point by one degree per click.
-  **KEY - Temperature control.** Increases interior temperature set point by one degree per stroke.
-  **KEY - Air Recirculation.** Pressing key to turn on recirculation.

OPERATING INSTRUCTIONS

When engine is running press key  to activate the climate control.

Temperature control When A/C is on, select temperature by using key  to decrease or key  to increase the temperature. The temperature can be adjusted between 12°C-28°C / 54°F-82°F.

Ventilation When A/C is on in automatic mode, the blower's speed is controlled by interior temperature. Blower speed can be changed by pressing key .

Heating (option)

If temperature drops below set temperature heating will start automatically LED will lid.

* In case the heating unit is not a part of the A/C system, on heating mode the A/C blowers should be cut off, by connecting points B1 and B4 on connector B.



Temperature indication

To check the interior temperature press simultany on  and .

Celsius to Fahrenheit conversion

Conversion function between Fahrenheit and Celsius degrees long press and hold the "Air Recirculation" to switch the current temperature display mode. If the current temperature is Celsius, it will switch to Fahrenheit; If it is currently in Fahrenheit, it will switch to Celsius.

1. A connector

- A1 Blower first speed relay output (+).

A2 Blower second speed relay output (+).

A3 Blower third speed relay output (+).

A4 Blower cut off on heating mode (+) input.

A5 Trinary input (-).

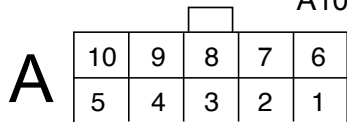
A6 External temp. sensor.

A7 Common for temp sensor.

A8 Internal temp. sensor.

A9 (+) Output for flap activation relay.

A10 (+) Output for roof fan activation relay.



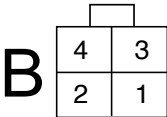
2. B connector

- B1 Compressor relay output (+).

B2 Hot water relay output (+).

B3 Input (-).

B4 Input (+).



3. Error Cods

- E1 Internal temp. sensor fault.

E2 External temp. sensor fault.

CO No Gas in the system.

Controller cutting dimension

