

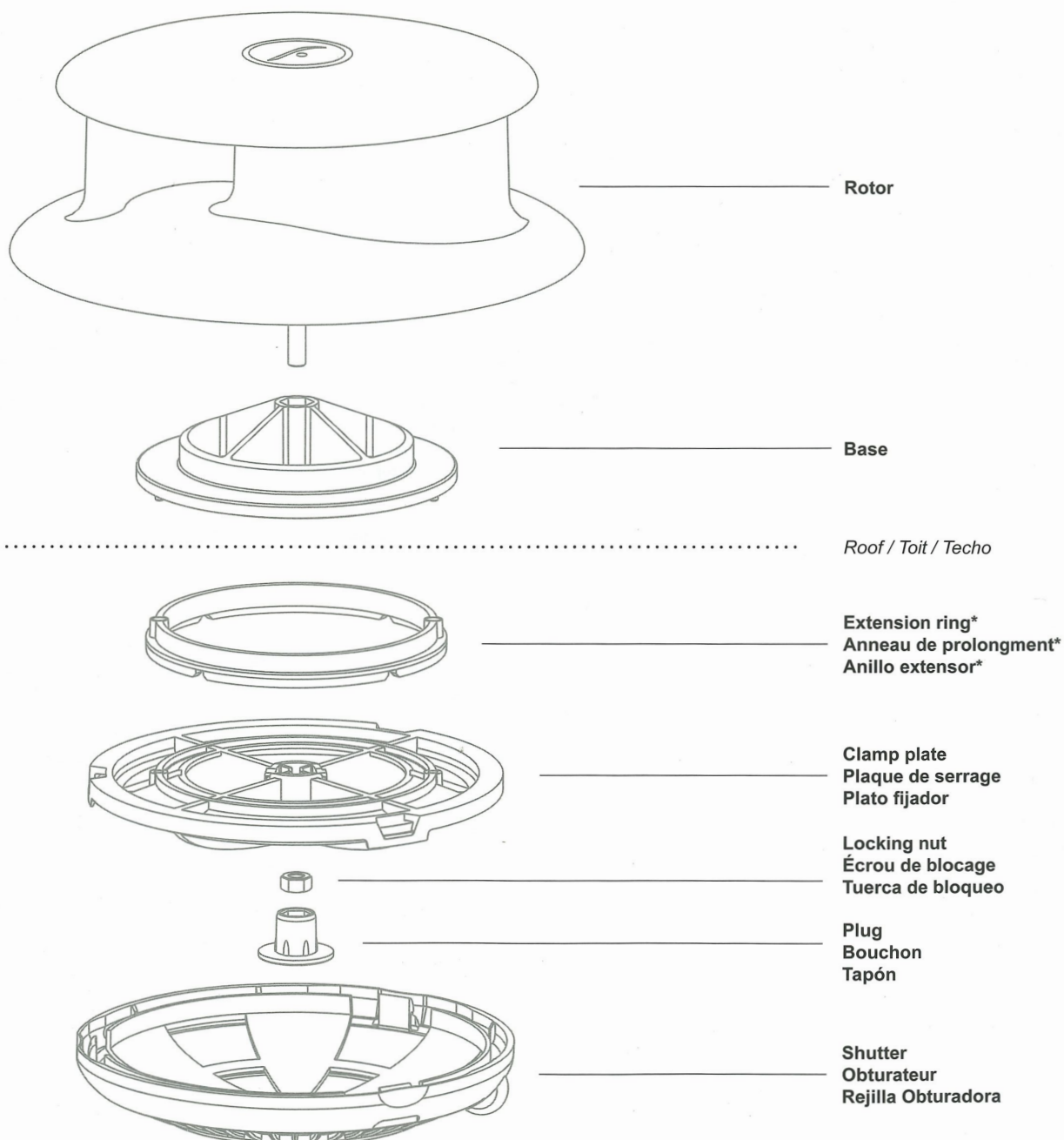


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The following items are supplied as part of the **Flettner TCX-2™** ventilator:

Les éléments suivants sont compris avec le ventilateur **Flettner TCX-2^{MC}** :

Las siguientes piezas son las que se entregan como parte del ventilador **Flettner TCX-2™** :



** required as a spacer for certain applications*

** utilisé en tant qu'espaceur pour certaines applications*

** algunas aplicaciones ocupan un espaciador*



Figure 1 - Actual Size Template for Standard TCX-2™ Base

Figure 1 - Modèle de grandeur réelle pour la base régulière Flettner TCX-2^{MC}

Figura 1 - Plantilla en tamaño real para la base Estándar del Flettner TCX-2™

- Locating Holes
Trous de positionnement
Hoyos de Localización
- Extent and position of large hole to be cut
Étendue et position de la grande ouverture à découper
Tamaño y posición del hoyo grande a cortar en el techo

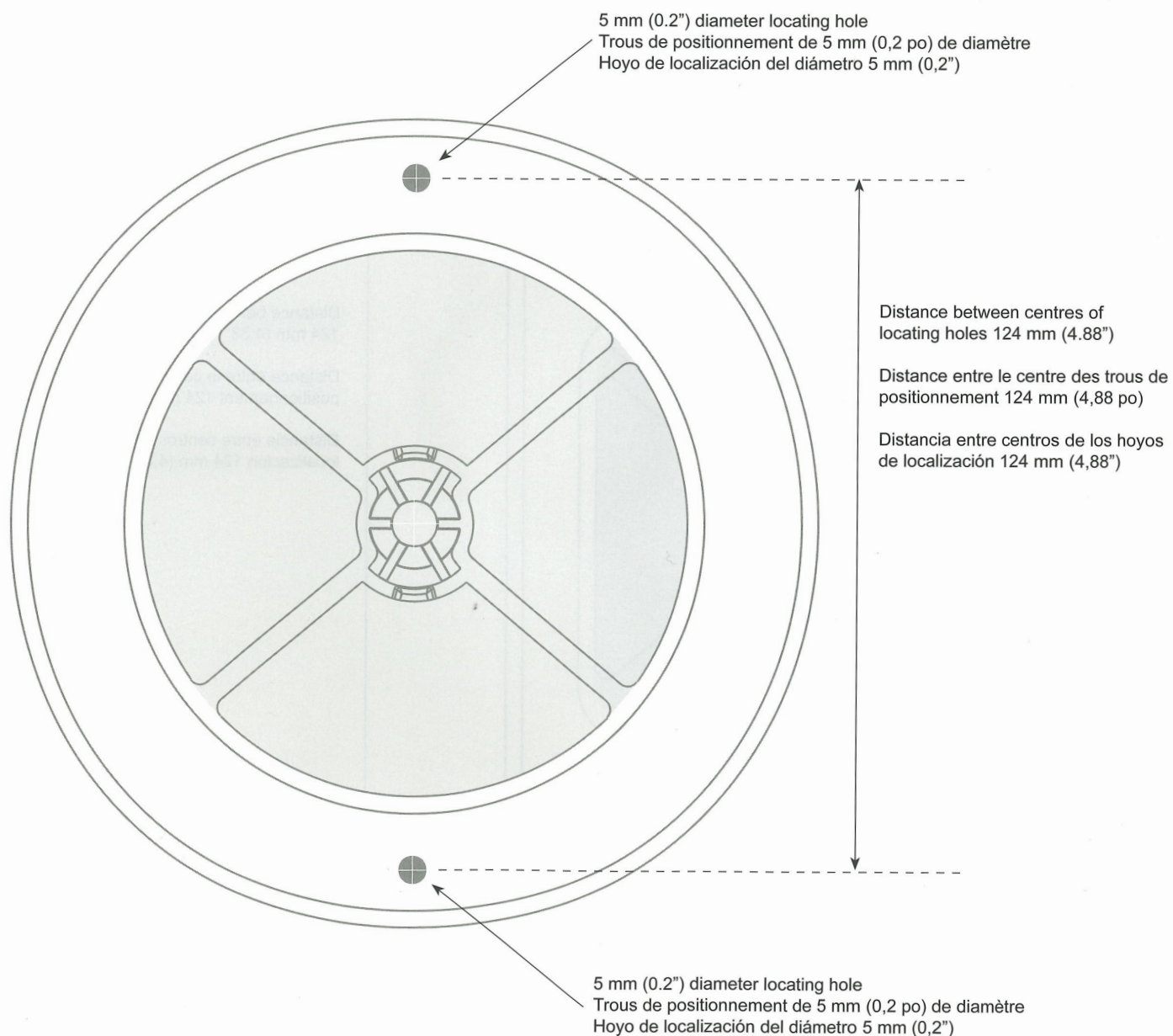




Figure 2 - Actual size template for narrow TCX-2™ base

Figure 2 - Modèle de grandeur réelle pour la base étroite Flettner TCX-2™^{MC}

Figura 2 - Plantilla en tamaño real para la base estrecha del Flettner TCX-2™

Locating Holes

Trous de positionnement

Hoyos de Localización

Extent and position of large hole to be cut

Étendue et position de la grande ouverture à découper

Tamaño y posición del hoyo grande a cortar en el techo

5 mm (0.2") diameter locating hole

Trous de positionnement de 5 mm (0,2 po) de diamètre

Hoyo de localización del diámetro 5 mm (0,2")

5 mm (0.2") diameter locating hole

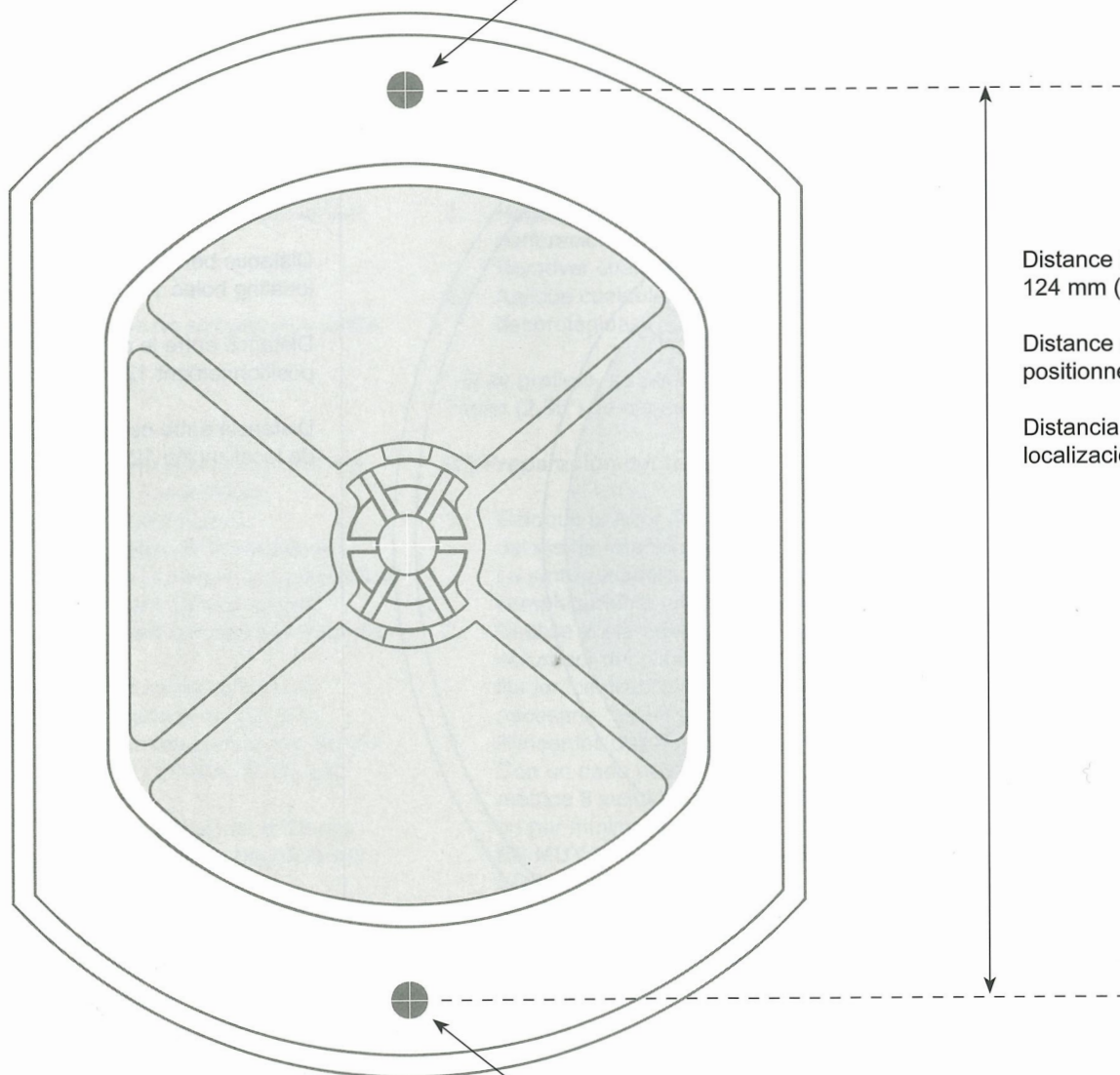
Trous de positionnement de 5 mm (0,2 po) de diamètre

Hoyo de localización del diámetro 5 mm (0,2")

Distance between centres of locating holes
124 mm (4.88")

Distance entre le centre des trous de
positionnement 124 mm (4,88 po)

Distancia entre centros de los hoyos de
localización 124 mm (4,88")





channel or corner.

2. Fit the ventilator towards the rear of the vehicle.
3. Do NOT fit the ventilator in the centre of a large unsupported roof section.
4. Use one of our recommended fitters.

If the ventilator is to be fitted to a ribbed section of a roof ensure that the base of the ventilator can sit flush on the roof surface between the ribs, and that the position chosen will permit the clamp plate and shutter to sit flush with the underside of the roof. For most applications the standard base is suitable, but in some cases the narrow base option is required. For double-skinned roofs an adaptor (optional extra) should be used.

(B) Preparing the roof

1. Using one of the templates supplied (**figures 1 and 2**) mark out on a flat section of the roof the hole pattern corresponding to the correct base option. Ensure the position chosen allows sufficient clearance in each direction for the base and rotor to be located properly.
2. Drill the two 0.20" (5.0 mm) diameter locating holes. The centres of the two holes should be 4.88" (124.0mm) apart, equally spaced on either side of the large hole on a line passing through the centre of it.
3. For the **standard base** cut a 3.86" (98.0 mm) diameter circular hole using a hole saw or tank cutter. If preferred, a smaller diameter hole may be cut provided this is not less than 2.95" (75 mm) in diameter. For the **narrow base** cut an oval hole as shown in **figure 2**. Remove any burr from the cut edges.
4. Use an appropriate rust inhibiting preparation to treat any bare metal surfaces.

(C) Installing the ventilator

1. Place the rotor (including the base) onto the roof taking care not to let the base drop off the spindle. Push the two steel locating pins fully through the small holes. The sealing gasket (already bonded to the underside of the base) should be in full contact with the roof.
2. Slide the shutter element to the closed position and release the shutter from the clamp plate by gently deflecting the three retaining clips one at a time. Offer up the clamp plate to the underside of the roof, centring it on the steel shaft and taking care not to dislodge the rotor. If required, use the extension ring as a spacer between the roof and the clamp plate.
3. Align the two small holes on the clamp plate with the steel pins on the base. Using a 1/2" or 13mm socket spanner (socket wrench) fasten the clamp plate to the roof with the M8 locking nut provided*. The flat surface of the nut should face towards the roof. Tighten to a minimum torque of 1.5 lb ft (2.0 Nm). Do not exceed a torque of 2.2 lb ft (3.0 Nm)
VERY IMPORTANT – DO NOT OVERTIGHTEN.
4. Place the plug provided into the central recess of the clamp plate, turning it if necessary to ensure it presses fully home. It is important that the plug is fitted correctly.
5. If continuous ventilation is essential, remove the blue sliding element from the shutter (the peg to which the button is attached must be cut to remove it). Otherwise set the shutter to the closed position. Align the three clips on the shutter assembly with the three slots on the clamp plate. Push the shutter assembly firmly home, ensuring that all three clips snap correctly into place.

*If the ventilator is removed and refitted a new locking nut with a nylon insert of the same type must be used.

Note: The Flettner TCX-2™ Ventilator with a standard base can be fitted as a replacement for the Flettner 2000 Ventilator without the need to cut new holes in the roof. In such circumstances all parts of the old ventilator including the base should be removed.