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# ***REPAIR MANUAL FOR DUNE 270° AWNING***

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## **Purpose of the document**

The purpose of this document is to describe the correct procedures to repair and/or replace the parts for Dune Awnings

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## PURPOSE OF THE DOCUMENT

<b>1. CONTENTS</b>	<b>2</b>
<b>2. THE DUNE AWNING</b>	
2.1 Icons Used in the Manual	<b>2</b>
2.2 Brief Description	<b>3</b>
2.3 Support	<b>3</b>
2.4 Complete Parts List	<b>4</b>
<b>3. REPAIRING A DUNE AWNING</b>	
3.1 General	<b>5</b>
3.2 Technology	<b>5</b>
3.3 Replacing Broken Parts	
3.3.1 Replacing Broken Parts	<b>6</b>
3.3.2 Hinge Insert	<b>8</b>
3.3.3 Complete Spar Arm	<b>9</b>
3.3.4 Rubber Strap	<b>10</b>
3.3.5 Large End Cap	<b>10</b>
3.3.6 Pole Holder	<b>11</b>
3.3.7 Pole End Caps	<b>11</b>
3.4 Removing Skin from Frame	<b>12</b>
3.5 Removing Skin onto Frame	<b>13</b>

## 2.1. ICONS USED IN THE MANUAL

Throughout this document, the pictograms below are used to underline points or important notions.



Important information



Good to know - Tricks



Mandatory action

## **2. THE DUNE 270° AWNING**

### **2.2 BRIEF DESCRIPTION**

The Dune Awnings are very simple, but remarkably efficient in their design.

There are a number of hinged spars/arms that are supported by a solid aluminium backing plate that attaches to one's vehicle. By 'fanning out' these arms, one achieves extensive protection from the elements.

It is unlikely that the Awning will become damaged in normal operation providing all arms are fully secured using the guy ropes and pegs provided. Sometimes, however, incidents involving storms, vehicles, trees and other unforeseen circumstances can result in breakages.

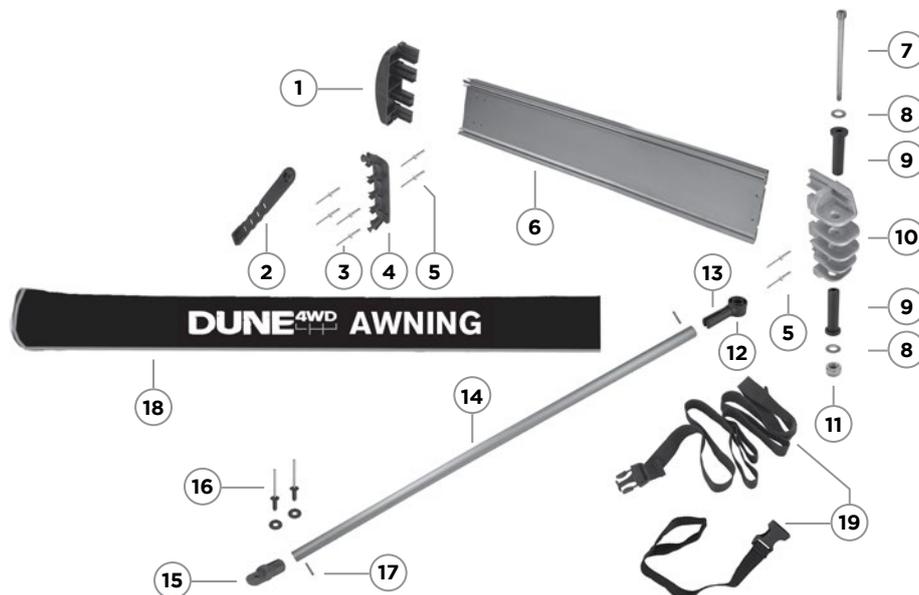
The purpose of this manual is to provide instructions as to how one can easily repair the awning.

For matters related to the installation of the awning to a vehicle (and any associated repairs), it is recommended that one contacts the relevant roof rack/platform/tray provider.

## 2. THE DUNE 270° AWNING

### 2.4 COMPLETE PARTS LIST

Item	General Part Name	Parts No
1/5	Large End Cap with Rivets	FOXLC
2	Rubber Strap	FOXRS
3/4	Pole Holder With Rivets	OFW01SPPH
6	Backing Extrusion	OFWSPMBE
7/8/11	Hinge Bolt (incl nut and Washers)	FOXSBOLT
9	Hinge Pin/Bush (set Of 2)	OFW01SPHPSET
10/5	Spar Hinge	FOXSPH
12/13	Nylon Hinge Insert	OFW01SPNH
14	Complete Arm	FOXWINGCANH
14a	Complete Spar arm (incl Insert and End Cap)	CANH
15/17	Pole End Cap (Pack of 4)	OFW01SPEC
16	Pole End Cap Rivets and Washers (Set of 8)	OFW01SPRIVCAP
18a	270° Awning Cover (LH)	OFW27AWLHACOV
18b	270° Awning Cover (RH)	OFW27AWRHACOV
19	270° Tensioning Straps	FOXTS



## 3. REPLACING BROKEN PARTS

### 3.1 GENERAL

The Dune Awning is relatively easy to repair. The key processes are as follows:

- Identify the parts that are broken (the above List, 2.2, allows for easy identification).
- Read the instructions below to ensure that you understand the repair process.
- Obtain replacement parts as required (refer 2.3 above).
- Determine whether the repair you are performing is best performed with the Awning on or off the vehicle. As a general rule, replacing the Awning cover can be performed with the Awning installed on your vehicle, with most other repairs being more easily performed with the Awning removed from the vehicle.
- Arrange a clear and safe work area.

### 3.2 TERMINOLOGY

Apart from the names of the parts, there are a couple of terms used in this document that require clarification:

- **“A” Side:** this term is used to describe the side of an awning that is located at the rear of the vehicle and is parallel to the side of the vehicle. It is the first side to be pulled out when setting the Awning up. The opening width/length of this side differs from all other sides of the Awning. The zipper arrangement for “A” End panels differs between Left Hand and Right Hand models.
- **“B” Side:** This term is used to describe the second segment of an Awning. It sits between to the ‘A’ side and the rest of the Awning. The opening width/length of this side differs from the other sides of the Awning. The zipper arrangement for “B” End Panels is the same for both Left Hand and Right hand models.

#### Where to find the Batch Number

If your looking for the Batch number for a warranty, it can be found in the end cover flap as shown below on the white stitching label



## 3.3 REPLACING BROKEN PARTS

### 3.3.1. AWNING TRAVEL COVER - PART #18

This is the PVC part that covers the folded-up Awning during travel. Most current models include a clip-in/clip-out pole/peg bag.

To replace:

- Fully unzip the Awning Cover.
- Unclip, remove and put aside the pole/peg bag prior to replacement of the Cover.



It is not necessary to remove the Awning from your vehicle if the only part being replaced is the Awning Travel Cover.



It is important to correctly identify the Awning Cover that you require. Note that Left Hand models will not work with a Right Hand Awning (and vice versa).

- Once the Pole/Peg Bag has been removed, unclip the remaining clips that support the rolled up Awning. These are attached to black webbing and will allow the fabric of the Awning to hang down.
- Undo all the Velcro attachments at the hinged end of your Awning (normally to the rear of your vehicle).



## 3.3 REPLACING BROKEN PARTS

- From the front of the Awning, pull the Awning Cover out of the main aluminium backing extrusion.



- Ensure that both parts (upper cover and lower zipper) are removed.



- To install the new Awning Cover, follow the above steps in reverse. Ensure the replacement cover has been fully unzipped and ensure that the attached pole/peg bag has been unclipped and put aside. The new Awning cover is attached by inserting the rope track sides of the Awning Cover into the corresponding channels on the main Backing Extrusion (#6).



Ensure the zipper on the Awning Cover is positioned at the lower side of the Backing Extrusion.

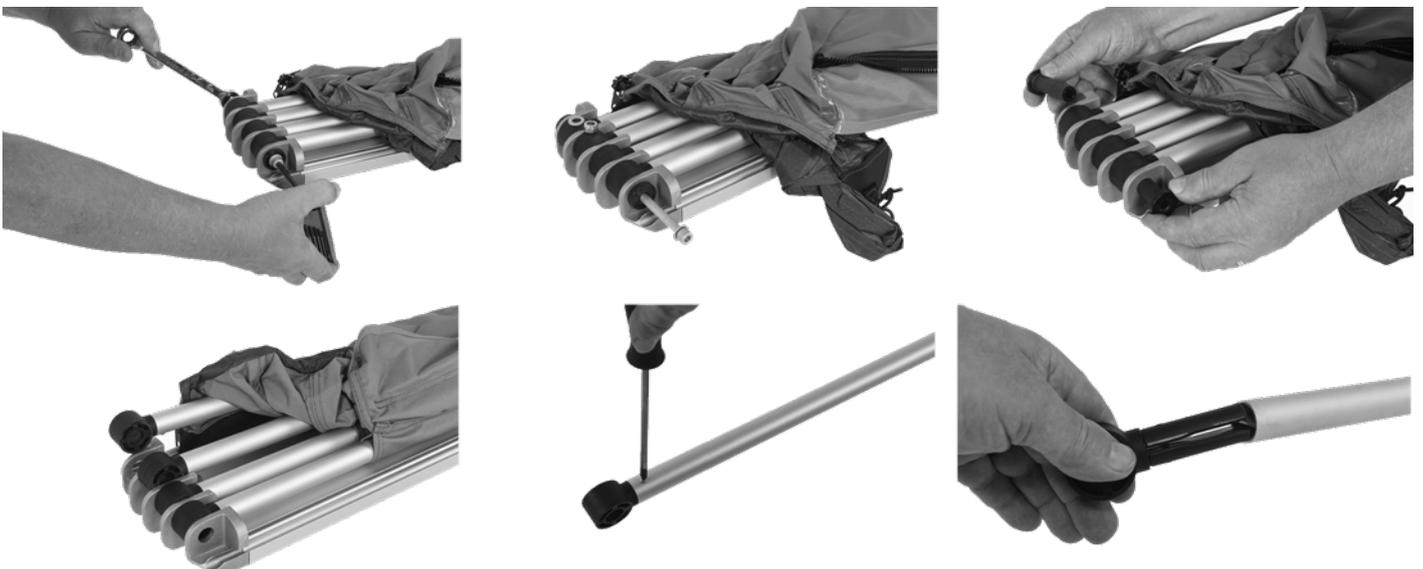
## 3.3 REPLACING BROKEN PARTS

### 3.3.2. HINGE INSERT - PART #12

The Hinge Inserts are the parts that connect the Spar Arms to the main Hinge Assembly. The current models are composed of a nylon resin that allows flexibility and strength. Early models used moulded aluminium inserts with metal washers. Those inserts are no longer available. If replacing a broken aluminium insert it will be necessary to replace all Hinge Inserts on the Awning with the nylon version. Failure to do this may result in breakage to the main spar hinge (#10).

To replace one or more Hinge inserts:

- Remove the Main M8 x 150mm Hinge Bolt (#7) using a 13mm spanner and a 6mm Hex Key. Ensure the bolt is undamaged and retain, along with the nut and washers, for reinstallation.
- Pull out the upper and lower Hinge Pins/Bushes (#9). Ensure that these are undamaged and retain for reinstallation.
- Gently remove the broken/damaged Hinge insert from the main spar hinge assembly.
- The Hinge Insert is connected to the Spar Arm with a Phillips Head screw. Remove this screw.
- If the Hinge Insert is not broken, it is often possible to simply 'tap out' the Insert. If the Hinge Insert is broken, it is easier to push the broken parts inside the Spar arm Tubing. This process will not interfere with normal operation.
- Insert the Hinge Insert into the Spar arm tubing, ensuring that the screw hole on the Hinge Insert aligns with the hole in the Spar arm tubing. Secure with the screw.
- Reassemble the Awning in the reverse order of the above steps. Ensure that the Hinge Pins/Bushes are securely inserted and that the Bolt, nut and washers are firm and secure.
- Set up your Awning to ensure smooth and easy operation. If you encounter any difficulties, recheck the above steps.
- If there are difficulties, it may be necessary to replace the entire Spar Arm and not just the Hinge insert. (Refer below)



## 3.3 REPLACING BROKEN PARTS

### 3.3.3. COMPLETE SPAR ARM - PART #14a

This is the complete Spar arm that consists of the following individual parts.

- Nylon Hinge insert with screw
- Aluminium Spar Arm Tubing
- End cap with pin.

This part may become damaged due to wind, weather, or other unforeseen events. To replace this part, it may be easier if the Awning has been removed from the vehicle. It is necessary to access the top of the Awning to remove and reinstall the Complete Spar Arm.

The replacement process is as follows:

- Remove the Main M8 x 150mm Hinge Bolt (#7) using a 13mm spanner and a 6mm Hex Key. Ensure the bolt is undamaged and retain, along with the nut and washers, for reinstallation.
- Pull out the upper and lower Hinge Pins/Bushes (#9). Ensure that these are undamaged and retain for reinstallation.
- Gently remove the hinge/arm from the main spar hinge assembly.
- Refer above images for guidance.
- It will be necessary to remove the rivets and washers connecting the Awning Skin to the Spar Arm. This simply requires drilling out the existing rivets using an 8mm drill bit



- The Complete Spar Arm will now slide out of the sleeves attaching it to the Awning Skin.
- Replace the Complete Spar Arm, ensuring that the End Cap eyelets are consistently aligned (the eyelet portion of the End Cap should be uppermost)
- Reattach the Awning Skin using the appropriate rivets and washers.
- Reassemble the Complete Spar Arm into the Spar Hinge. Ensure that the Hinge Pins/Bushes are securely inserted and that the Bolt, nut and washers are firm and secure.
- Set up your Awning to ensure smooth and easy operation. If you encounter any difficulties, recheck the above steps.



## 3.3 REPLACING BROKEN PARTS

### 3.3.4 RUBBER STRAP - PART #2

This is the part that holds all the spar arms securely to the Pole Holder when closed. It is a simple rubber strap that firmly attaches to the upper knob on the Pole Holder and then loops over the lower knob of the Pole Holder.

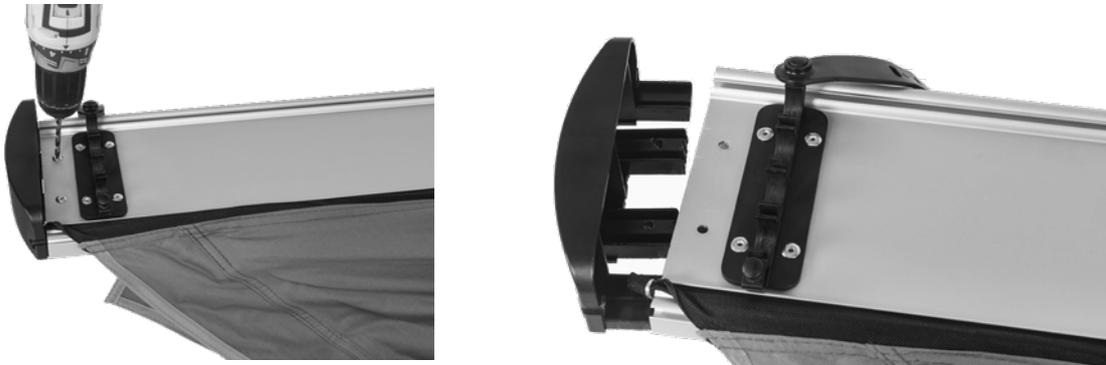


If this part needs replacing, simply remove the existing strap by firmly pulling the strap upwards and away from the unit. A replacement strap can be then pushed onto the exposed upper knob. Note that it is preferable that the strap is secured to the uppermost knob as this makes the Awning easier to operate.

### 3.3.5 LARGE END CAP

This is the part that protects the front of the unit when closed. It is connected to the Main Backing Extrusion by two rivets. To remove a damaged Large End Cap, it is necessary to drill out the two connecting rivets.

The part can then be 'tapped out' and removed.



To replace the Large End Cap, simply push the replacement unit into the Main Backing Extrusion and insert rivets to secure. Note that it may be necessary to gently tap the part into the extrusion with a rubber hammer or similar.

## 3.3 REPLACING BROKEN PARTS

### 3.3.6 POLE HOLDER - PART #4

The Pole Holder supports the Spar Arms when the Awning is closed. The Rubber Strap connects to this part to further hold the arms securely. If your Rubber Strap is still functional, remove it and then reinsert it onto your replacement Pole Holder.

The Pole Holder is connected to the Main Backing Extrusion by four rivets. To remove the Pole Holder, simply drill out the rivets and remove. The replacement part can then be rivetted into place. Do not forget to reattach the Rubber Strap.

### 3.3.7 POLE END CAPS - PART #15

Each Spar Arm has a Pole End Cap into which the Awning Upright poles can be inserted.

If a Pole End Cap needs replacing, the following steps are involved:

- Ensure that the Spar Arm is straight and serviceable. If there is any doubt, it may be worthwhile considering replacing the Complete Spar Arm (#14a).
- It is easiest to replace the Pole End Caps if the Spar Arm has been removed from the Awning. Refer Paragraph 3.3.3 above for details.
- Remove the securing spring pin from the arm. This requires a nail punch to push out the spring pin.



- It should then be possible to 'tap out' the damaged Pole End Cap.
- An alternative method to remove the End Cap from the aluminium spar arm is to use a sharp, fine toothed hacksaw and cut the part at the point where the plastic of the end cap meets the aluminium spar arm. It is important that the securing spring pin has been removed prior to this operation. If the remaining plastic bits do not simply fall out, they should be pushed into the spar arm (ensuring there remaining bits do not interfere with the rivets that connect the Spar Arm to the Awning Skin).
- To replace, insert the replacement End Cap into the Spar Arm and secure with a screw (if the original spring pin is serviceable, this may be used). Ensure that the End Cap eyelets are consistently aligned.

## 3.4 REMOVING SKIN FROM AWNING

If it is necessary to replace the skin to the Awning Cover, the following steps should be taken:

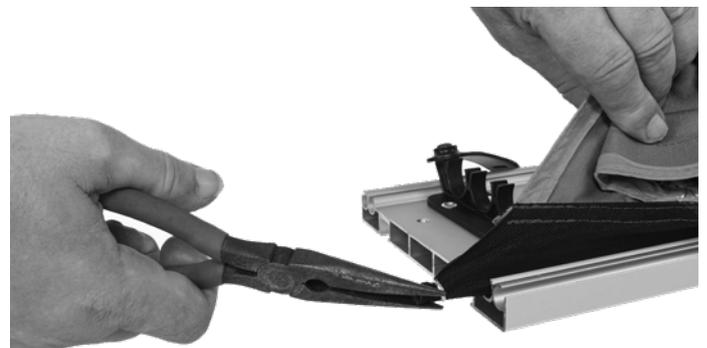
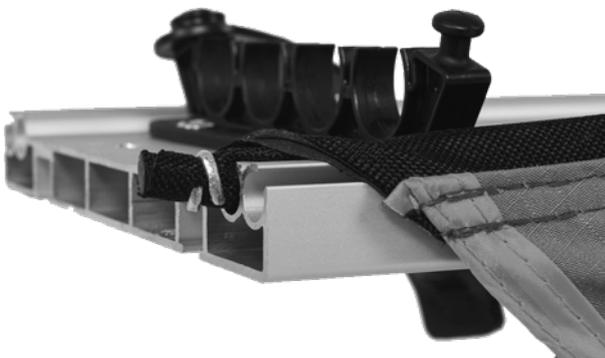
- Remove the Awning from the vehicle.
- Remove the Awning Travel Cover (refer 3.3.1).
- Drill out the rivets securing the damaged skin to the Spar Arms.



- Undo the Main Hinge Pin to release all the Spar Arms (refer 3.3.3).
- Slide out all the Spar arms from the sleeves in the damaged skin.

 It is easier to remove the Spar Arms from the Awning Sleeves by pulling them towards the hinged end of the Awning.

- Remove the Large End Cap (refer 3.3.5)
- Remove the damaged Awning Skin by sliding the skin out of the channel (pull away from the hinged end of the Awning)



- Retain the Spring 'O' Clip attached to the end of the sail-track spline (as illustrated above). Although not an essential part, it does assist in minimizing movement of the Awning Skin and assists in removing the Skin if it needs to be replaced in the future. Reapply this clip to the end of your replacement Skin prior to reinstallation.

## **3.5 Replacing Skin Onto Awning:**

To replace an Awning Skin, follow the steps in Paragraph 3.4 in reverse.

- Note that the sail track spine on the replacement Skin should be fitted into the second channel on the lower section of the Main Backing Extrusion.
- Note also that the replacement Skin should be aligned such that the sleeves for the Spar Arms are uppermost
- After sliding the Replacement Skin into the correct channel, thread the Spar Arms into sleeves on the Skin. This is best performed by threading from the hinged end to the outer ends.
- Reassemble the Spar Arms into the Main Spar Hinge (#10). Ensure that the Hinge Pins/ Bushes are securely inserted and that the Bolt, nut and washers are firm and secure.
- Open out the Awning to ensure it opens and closes freely and that the Skin is fitting correctly.
- Once satisfied that the Skin has been correctly installed and that the holes in the replacement skin correspond to the holes in the Spar Arm, rivet the Skin to the Spar arms using the Pole End Cap Rivets and Washers (Part #16)



- Replace the Large End Cap (refer 3.3.5)
- Replace the Awning Travel Cover (refer 3.3.1).
- Reinstall the Awning onto your vehicle.

**END OF DOCUMENT**

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444