ETC Installation Guide

High End Systems Arkon Replacement Gobo

Overview

CAUTION: ***RISK OF ELECTRIC SHOCK! Disconnect power before servicing.***

ATTENTION : ***RISQUE DE CHOC ÉLECTRIQUE! Couper l'alimentation avant l'entretien.***

This guide provides instructions for replacing rotating gobos in the High End Systems Arkon fixture.

Considerations for Custom Gobos

This section includes information about the gobo sizing requirements and installation positions of rotating gobo carriers.

Gobo Specifications

ETC recommends that custom gobos for use in the Arkon fixture be 1.1 mm glass BOROFLOAT® or 0.5 mm aluminum material.

When looking at the gobo from the LED engine, the gobo artwork must be oriented as you want it to appear when projected as shown in the graphic that follows.

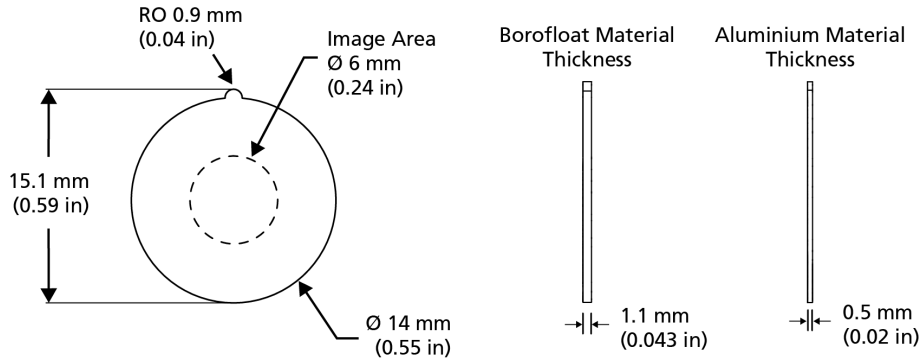


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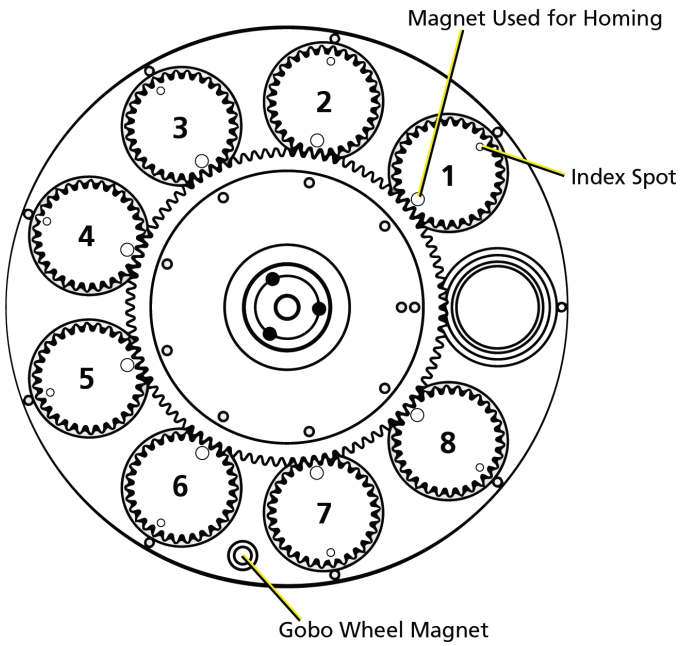
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Gobo Size Requirements



Rotating Gobo Wheel

The rotating gobo wheel in a Arkon fixture includes eight gobos. Each gobo is secured in a rotating gobo carrier.



Part Number	Description
2555A3005	Gobo carrier with magnet

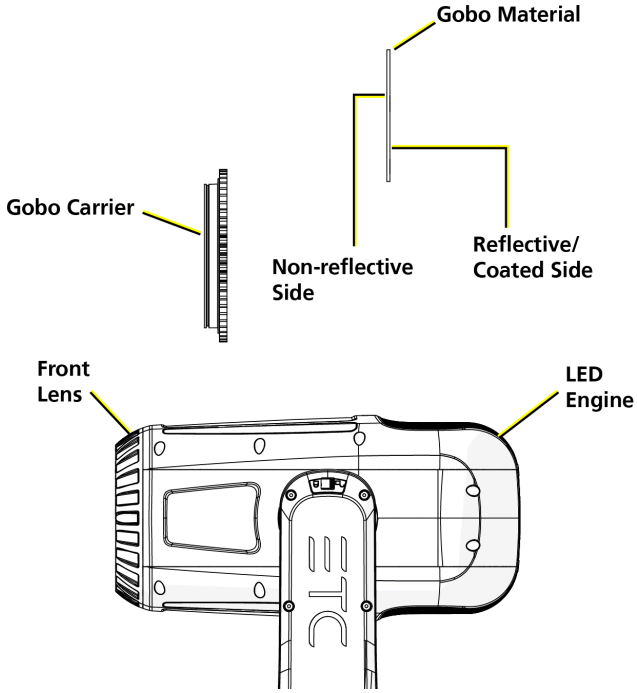
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Gobo Orientation

Before installing a new gobo, identify the reflective/mirrored side of the gobo to ensure the correct orientation of the new gobo in the gobo wheel.

The reflective/mirrored side of the gobo must face toward the LED engine when the gobo carrier is installed in the gobo wheel.



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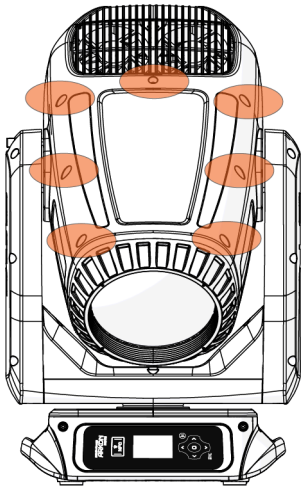
Replace a Gobo

Note: *ETC recommends that you wear clean cotton gloves when changing gobos to protect the gobos from dirt and fingerprints.*

Parts and tools required:

- T20 Torx screwdriver
- Replacement gobo
- Precision flatblade screwdriver

1. Disconnect power to the fixture and allow it to cool completely before continuing.
2. Remove the head cover. You only need to remove the cover located on top of the fixture when the front lens is facing you and the tilt lock is on the left side of the fixture head.
   a. Using a T20 Torx screwdriver, loosen the seven captured screws that secure the cover to the fixture.

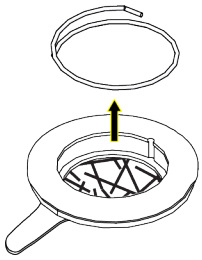


   b. Lift the cover from the fixture. You may need to use a precision screwdriver to loosen the cover. The seals that ensure an IP54 rating for the fixture can make the cover difficult to remove.
   c. Lift the cover, and then disconnect the Arkon Vibe wire harness and the safety lanyard from the fixture to completely remove the cover.

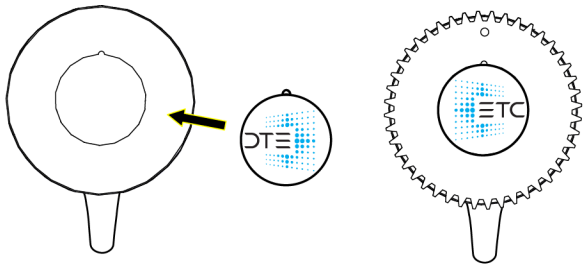
   The gobo wheel is located in the effects module, which is located near the middle of the fixture above the optics.

3. Locate the gobo you want to remove.
4. Remove the gobo carrier from the gobo wheel.
   a. Using a precision flatblade screwdriver or finger nail, push up on the edge of the gobo carrier to move the carrier out of its slot in the gobo wheel.
   b. Grip the edge of the gobo carrier and pull the carrier out of the gobo wheel.

5. Remove the gobo from the gobo carrier.
   a. Use a precision flatblade screwdriver to carefully pry the spring out of the gobo carrier.
   b. Remove the gobo from the gobo carrier.

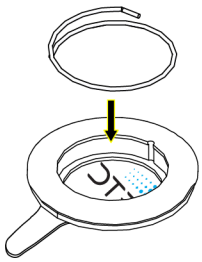


6. Insert the new gobo into the gobo carrier.
   a. Verify that the reflective/mirrored side of the gobo is facing down so that it will be inserted face down in the gobo carrier. (See *Gobo Orientation on page 3* for details.)
   b. Align the alignment tab on the gobo with the notch in the gobo carrier, and insert the gobo into the carrier.



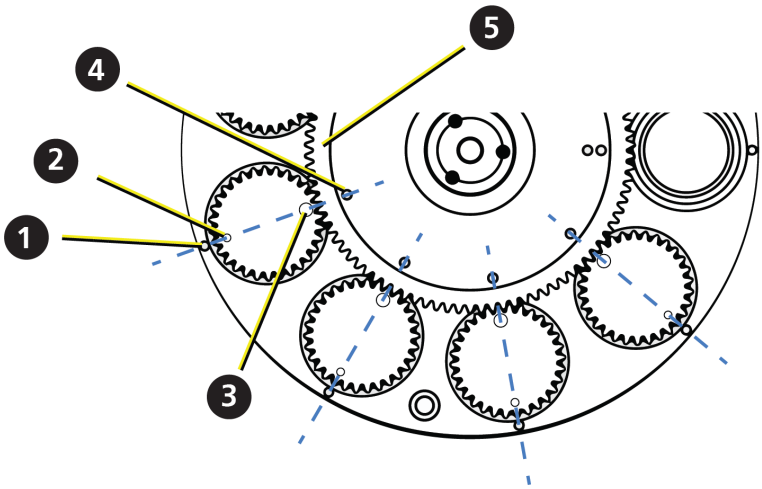
View from the front of the gobo carrier

7. Carefully insert the spring into the gobo carrier to secure the gobo.



8. Each gobo carrier includes an index spot (#2 in the following graphic). To ensure proper rotation of the gobos with respect to each other, the index spot on each gobo carrier must be aligned with its corresponding alignment key on the gobo wheel (#1 in the following graphic) before you install the new gobo.

   Rotate the gobo wheel until all index spots are aligned with their alignment keys. This also aligns each magnet (#3 in the following graphic) with an alignment key on the sun gear.



Item	Description
1	Alignment key
2	Index spot
3	Magnet
4	Sun gear alignment key
5	Sun gear

9. Install the replacement gobo.
   a. Locate the slot in which you want to install the replacement gobo.
   b. Turn the gear on the gobo carrier so that the index spot and alignment key will be properly aligned when you install the gobo in the gobo wheel.
   c. Push the gobo carrier into its slot until the gobo carrier is firmly seated in the gobo wheel, making sure that the index spot on the gobo carrier is aligned with its alignment key as shown in step 8.
      It can help to hold one of the other gobo carriers in position in the gobo wheel as you are installing the replacement gobo so that the other seven gobos do not rotate as you are pushing the replacement gobo into the gobo wheel.
10. Reinstall the head cover.
    a. Reattach the safety lanyard to the fixture.
    b. Reconnect the Arkon Vibe wire harness to the fixture.
    c. Secure the cover in place by using a T20 Torx screwdriver to tighten the captured Phillips screws.