

# ETC Reference Guide

## High End Systems Hyperstar Replacement Gobo

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### Overview

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

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

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

Each Hyperstar fixture includes two gobo wheels that are located in the effects module:

- The rotating gobo wheel faces the LED engine and contains replaceable gobos.
- The fixed gobo wheel is located closest to the lens and contains gobo patterns that cannot be replaced.

### Considerations for Custom Gobos

This section includes information about the mandatory use of mounting rings for custom rotating gobos, gobo sizing requirements, and installation positions of rotating gobo carriers.

#### Gobo Specifications

ETC recommends that custom gobos for use in a Hyperstar 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 flipped horizontally, as shown in the graphics that follow, because the artwork is flipped horizontally when it is projected.

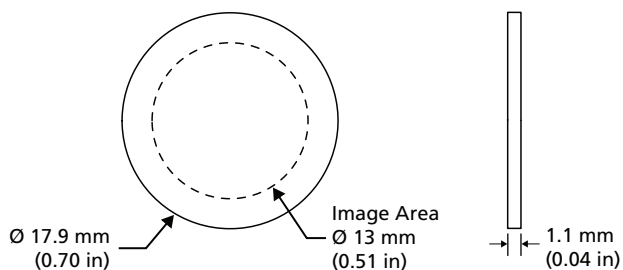


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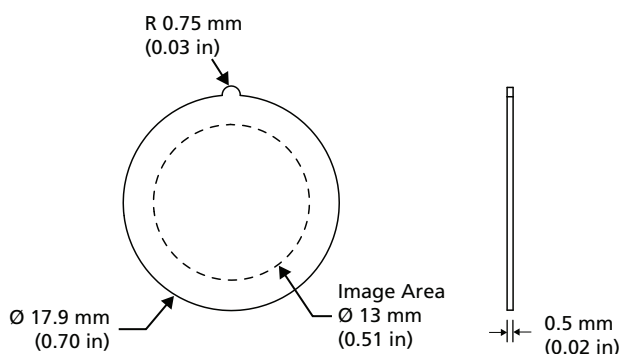
## Hyperstar Replacement Gobo

### Gobo Size Requirements

#### Hyperstar Glass Rotating Gobo

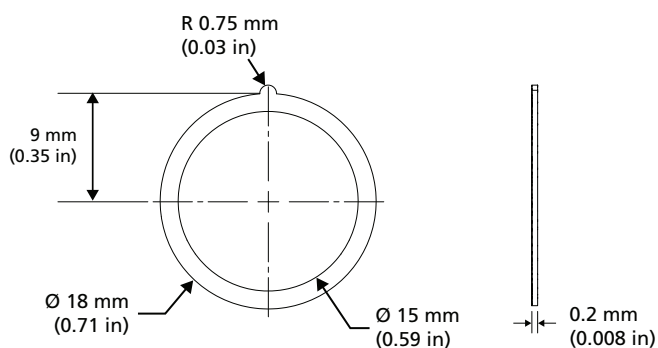


#### Hyperstar Aluminum Rotating Gobo



### Gobo Mounting Ring

When installing a custom glass rotating gobo, you must use a metal gobo mounting ring to help secure the gobo in the gobo carrier. Gobo mounting rings are available for purchase from ETC. Contact ETC or your authorized ETC dealer and order part number 2550A3001.



- For BOROFLOAT gobos, affix the gobo mounting ring to the reflective/mirrored side of the gobo.
- For art glass gobos, affix the gobo mounting ring to the non-reflective/coated side of the gobo.
- Make sure to use the same orientation of the gobo mounting ring for each gobo to ensure consistent indexing between fixtures.

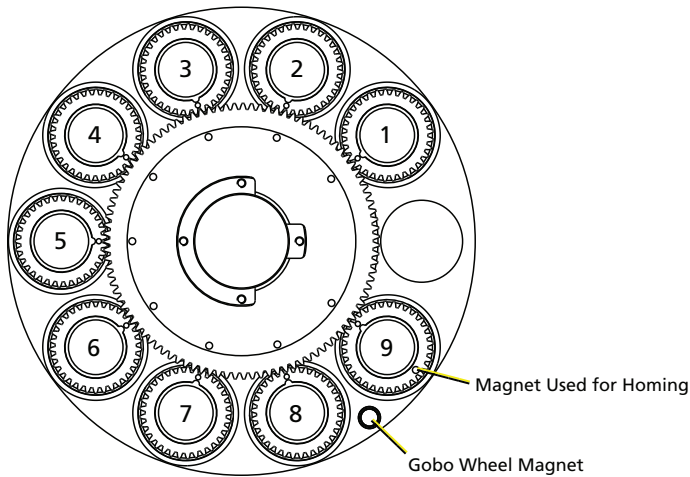
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### Rotating Gobo Carriers

Hyperstar fixtures use two different rotating gobo carriers:

- A standard carrier with a magnet
- A standard carrier without a magnet



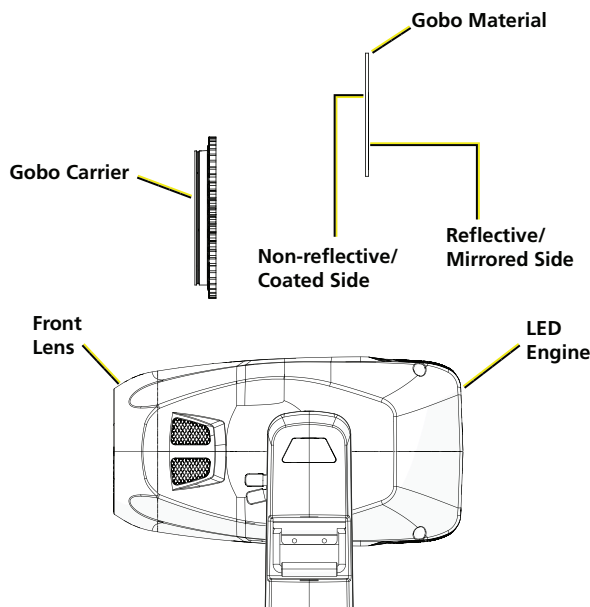
Part Number	Description
2550A3002	Gobo carrier, no magnet
2550A3003	Gobo carrier, magnet

- The gobo carrier in position 9 must include a magnet because that magnet is used to home the gobos.
- Gobo carriers used in the other positions do not need to include magnets.

### 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

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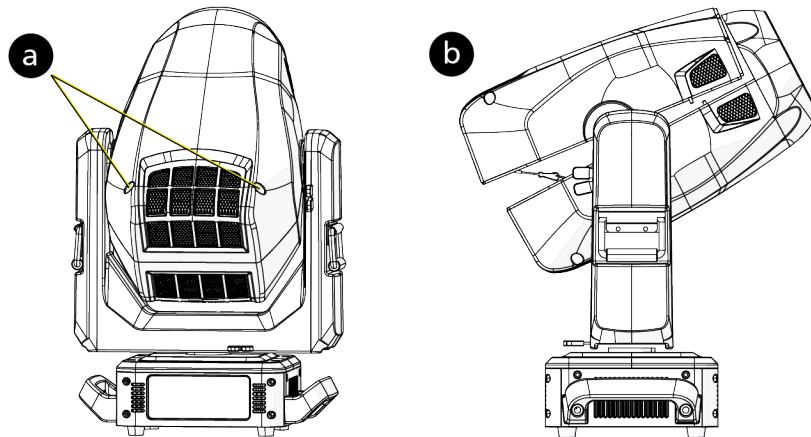
**Note:** ETC recommends that you wear clean cotton gloves when changing gobos to protect the gobos from dirt and fingerprints.

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#### Parts and tools required:

- #3 Phillips screwdriver
- Replacement gobo
- Precision flatblade screwdriver
- Needle nose pliers

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 head cover that is on the top of the fixture when the front lens is facing away from you and the tilt lock is to the right of the fixture head.
  - a. Using a #3 Phillips screwdriver, loosen the captured Phillips screws that secure the cover to the fixture.
  - b. Lift the cover, and then detach 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 bottom of the fixture head above the LED engine.

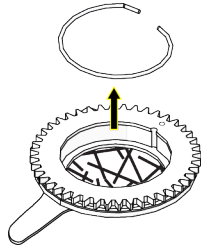
3. Locate the gobo you want to remove.
4. Remove the gobo carrier from the gobo wheel.
  - a. Using a precision flatblade screwdriver or a finger nail, push down on the edge of the gobo carrier to move the carrier out of its slot in the gobo wheel.
  - b. Using a needle nose pliers, grip the edge of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

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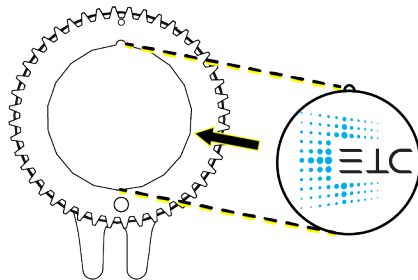
## Hyperstar Replacement Gobo

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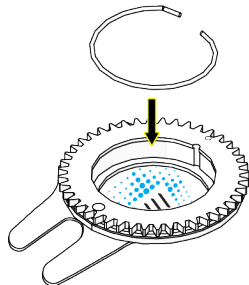
5. Remove the gobo from the gobo carrier.
  - a. Use a precision flatblade screwdriver to carefully pry the spring out of the gobo carrier.
  - b. Remove the gobo media from the gobo carrier.



6. Insert the new gobo into the gobo carrier.
  - a. Verify that the reflective side of the gobo is facing up. (See [Gobo Orientation on page 3](#) for details.)
  - b. Align the alignment tab on the gobo with the notch in the gobo carrier.



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



8. Insert the gobo carrier into the gobo wheel.
  - a. Locate the slot in which you want to install the gobo carrier.
  - b. Push the gobo carrier into its slot in the gobo wheel until the gobo carrier is firmly seated in the gobo wheel.

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9. Reinstall the head cover.
  - a. Align the head cover with the fixture and reattach the safety laynard to the fixture.
  - b. Angle the cover under the front housing.
  - c. Slide the back of the cover down and align its edges with the edges of the other cover.
  - d. Secure the cover in place by tightening the captured Phillips screws.

