

WALT DISNEY WORLD®

## PROJECT RED

### FROGS

#### OPERATIONS AND REPAIR MANUAL



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## Revision History

| Date       | Version | Description                         | Author                                          |
|------------|---------|-------------------------------------|-------------------------------------------------|
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| 05/24/2024 | 1.1     | Addition of Comprehensive Materials | Bridget Reilly<br>Beauchamp,<br>Brieaunna Avery |
| 06/11/2024 | 2.2     | Final Iteration before installation | Bridget Reilly<br>Beauchamp, Betsy Falk         |
|            |         |                                     |                                                 |
|            |         |                                     |                                                 |
|            |         |                                     |                                                 |

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# 1 Introduction and Preface

## 1.1 General Project Information

### 1.1.1 Notes from Monkey Boys Productions

This character is designed for use in collaboration with Walt Disney World/Disney's Hollywood Studios for use in the Voyage of the Little Mermaid Theater. All information contained herein was prepared for Monkey Boys Productions, LLC and is property of the Disney Corporation and not to be used in any way without their consent.

### 1.1.2 From the Disney Scope of Work, section 1.2-1.4:

#### *General Resort Overview*

*Movie magic comes to life at Disney's Hollywood Studios. This park features 8 sections: Hollywood Boulevard, Echo Lake, Grand Avenue, Sunset Boulevard, Commissary Lane, Star Wars: Galaxy's edge, Toy Story Land and Animation Courtyard.*

#### *General Venue Overview*

*Project Red will take place in the Voyage of the Little Mermaid (VOLM) Theater located within the One Man's Dream building next to Animation Courtyard in Disney's Hollywood Studios. The VOLM Theatre is a 400-seat theatre with a small, elevated stage with access between the house and backstage on Stage Left. All elements must fit through a double door at most due to limited load in infrastructure.*

#### *General Show Overview*

*A reimaged retelling of the classic film seen through the unique perspective of Ariel, a 16-year-old girl. Through cutting edge technology, mixed media, puppetry, and live actors, we follow Ariel's journey as she boldly pursues her dream to be part of the human world above, even if it means leaving her under the sea home.*

## 1.2 Item Description

### 1.2.1 Summarized from the Disney Scope of Work, Section 4.1.1:

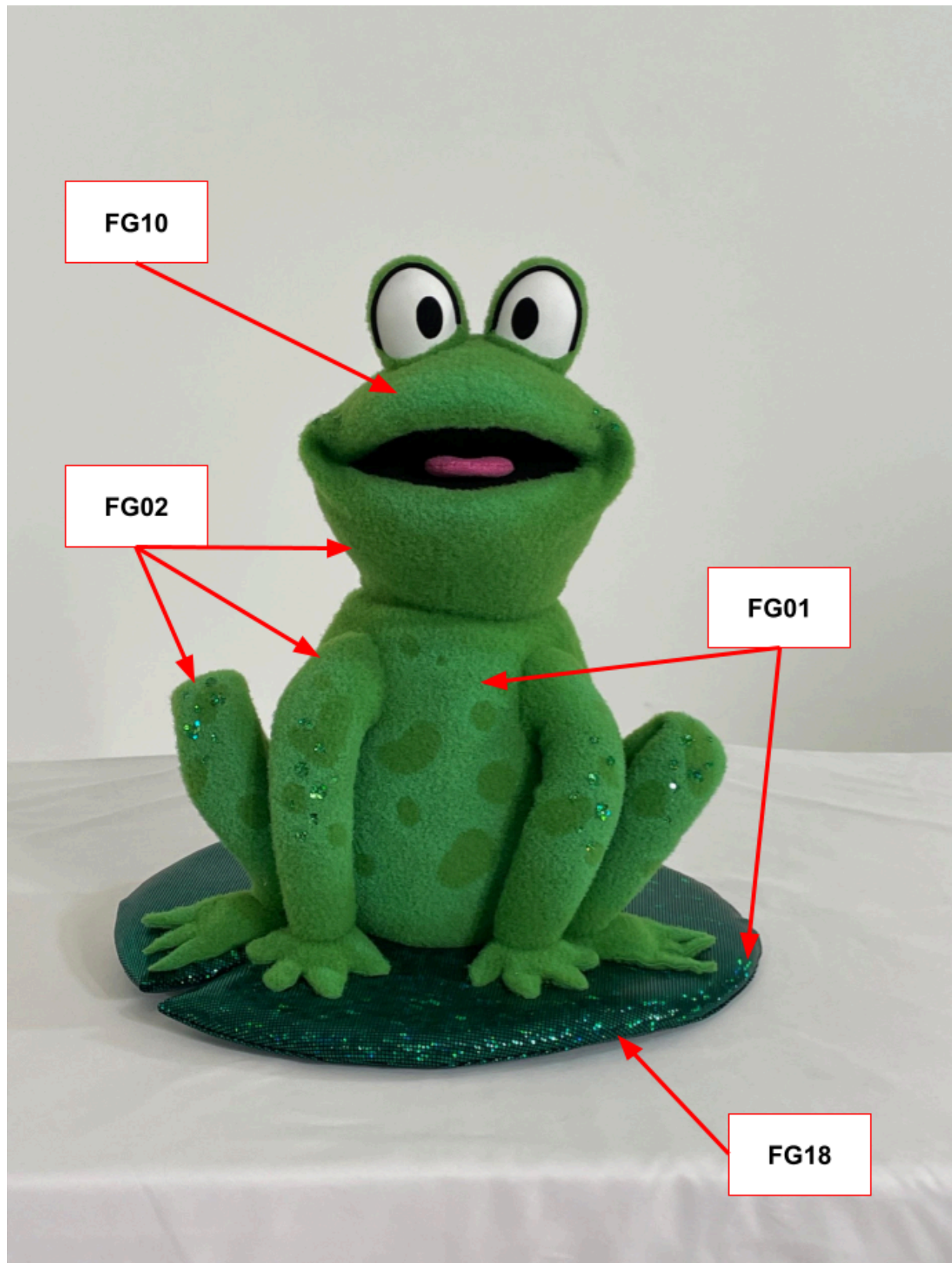
*"The frogs (quantity 5) are a trio of hand puppets each performed by a single puppeteer. They are simple sock puppets that should appear to be sitting on their own lily pad which should be mounted to the bottom of the puppet just below their feet."*

### 1.2.2 Basis of Engineering

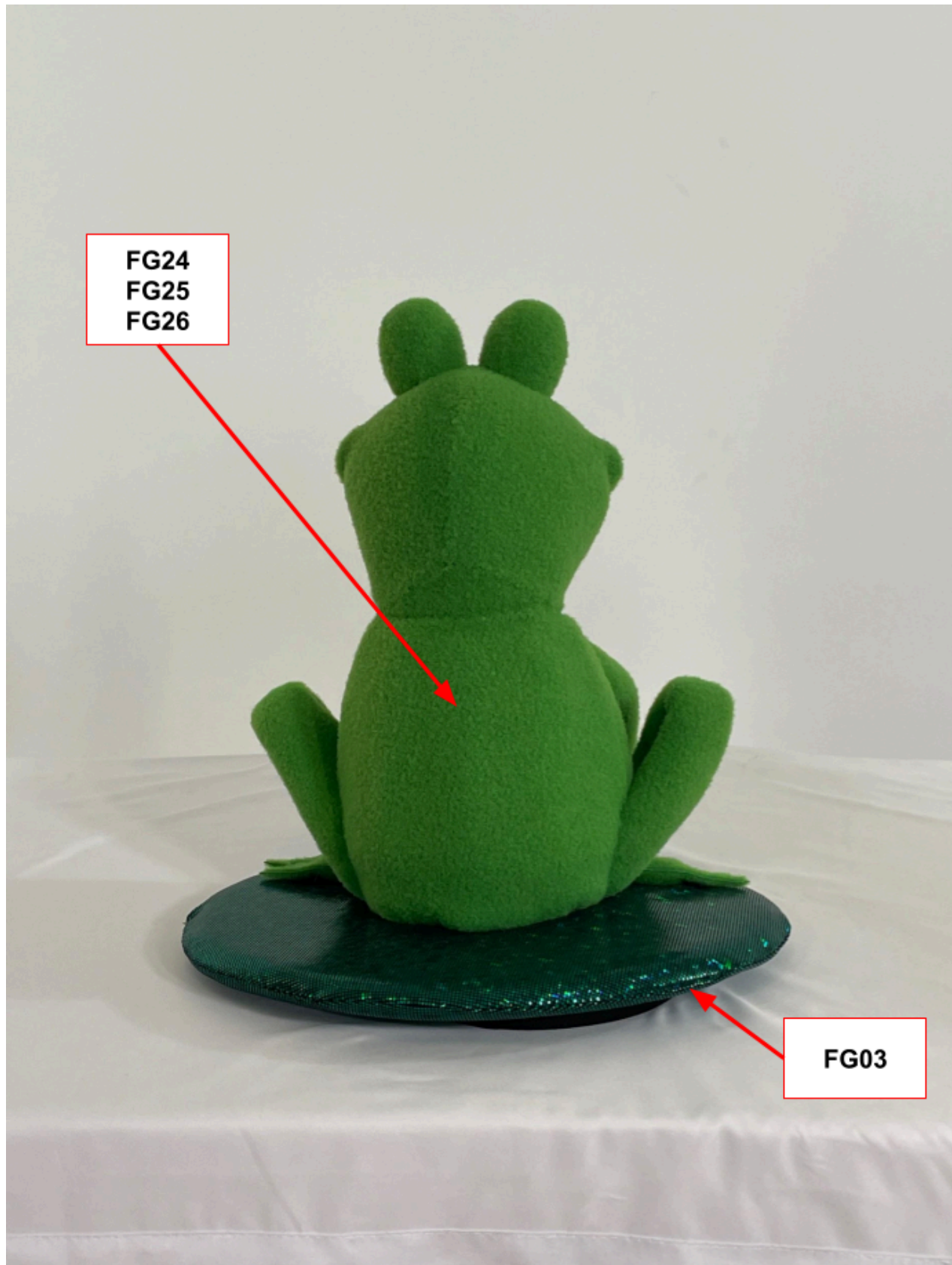
The frogs are built of laminated poly foam. They are covered in a combination of custom-dyed fleece and metallic spandex. They have no mechanics.

## 2 Construction and Assembly

### 2.1 Front View

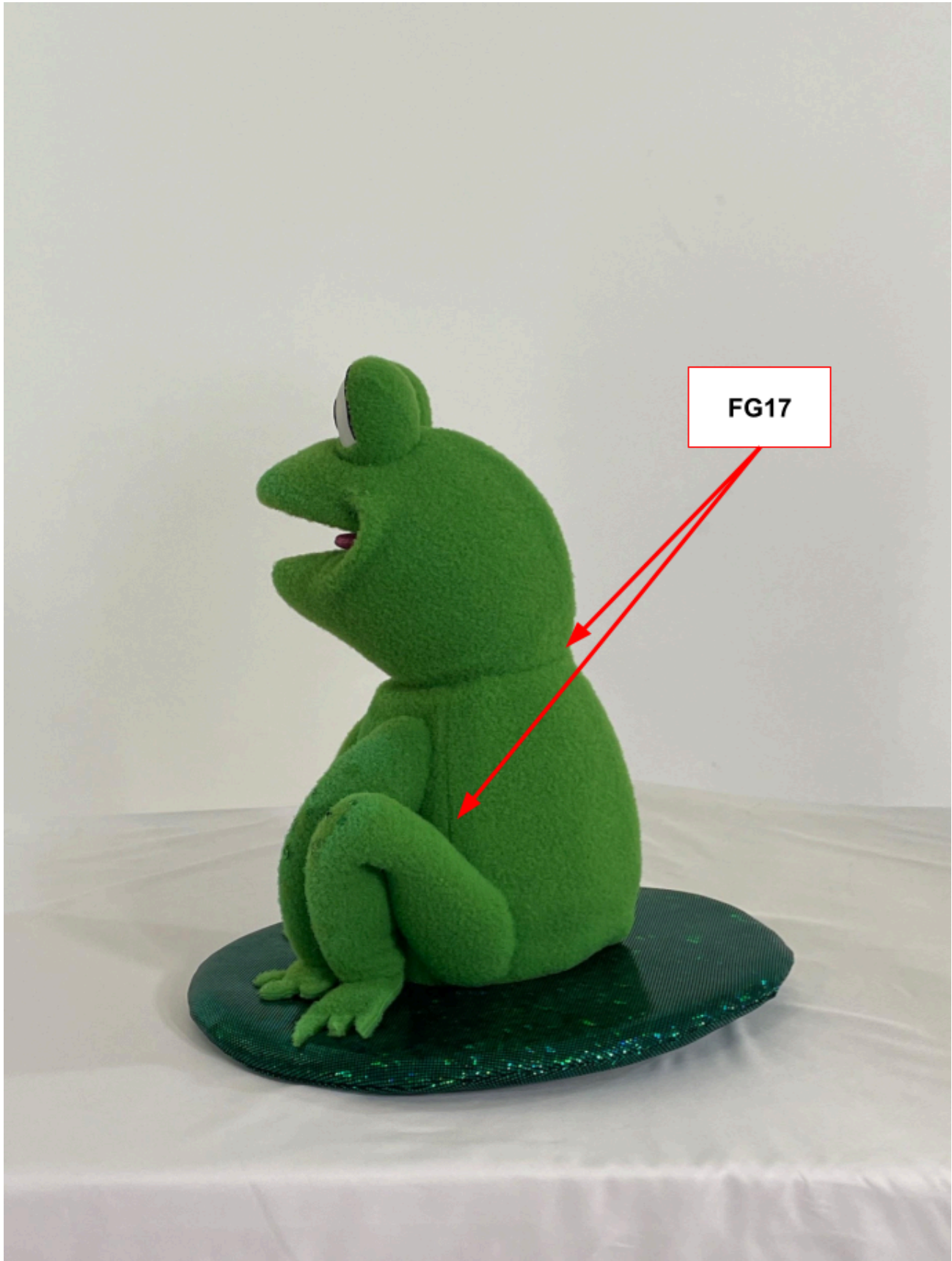


## 2.2 Rear View



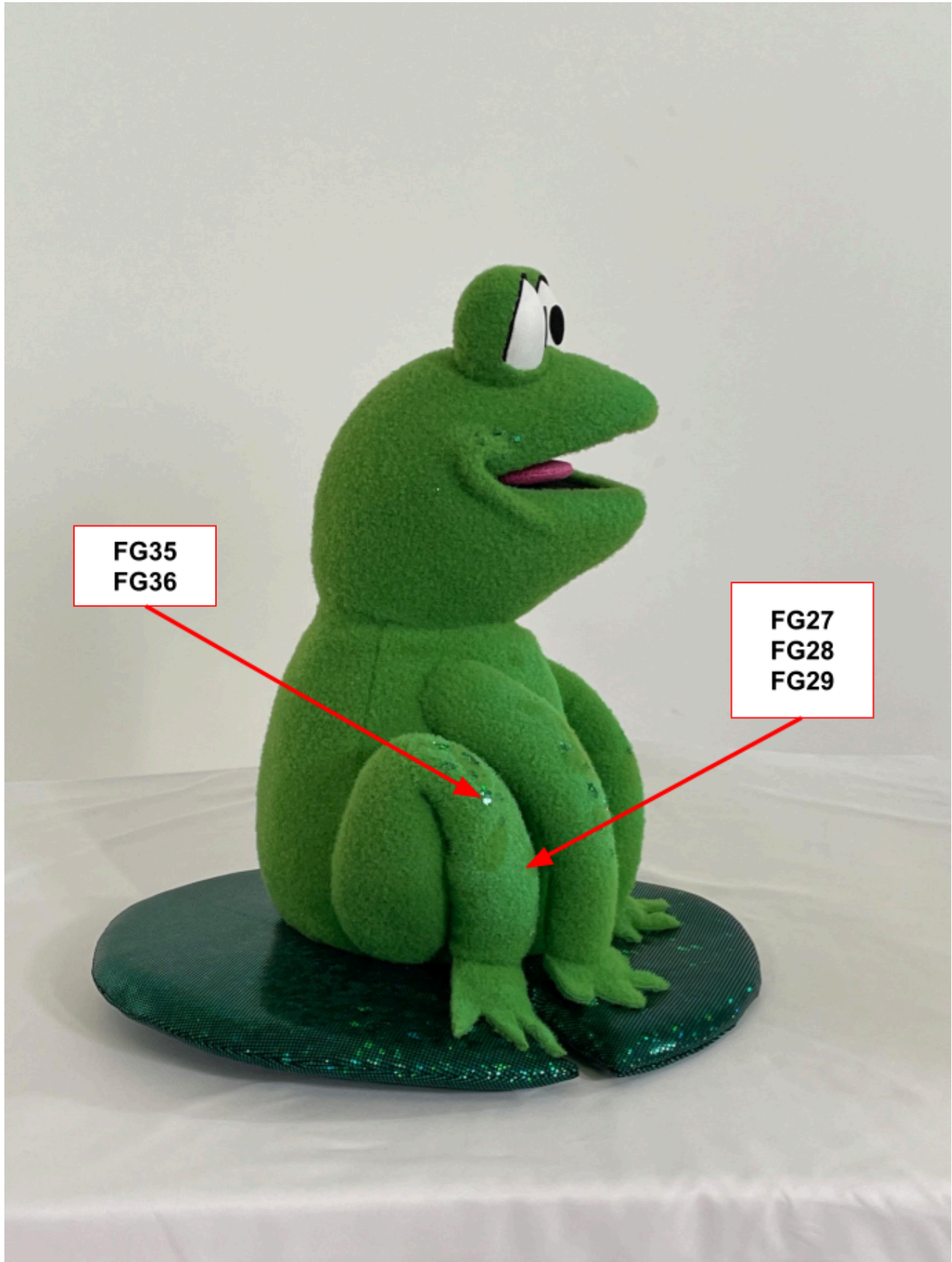


### 2.3 Left view

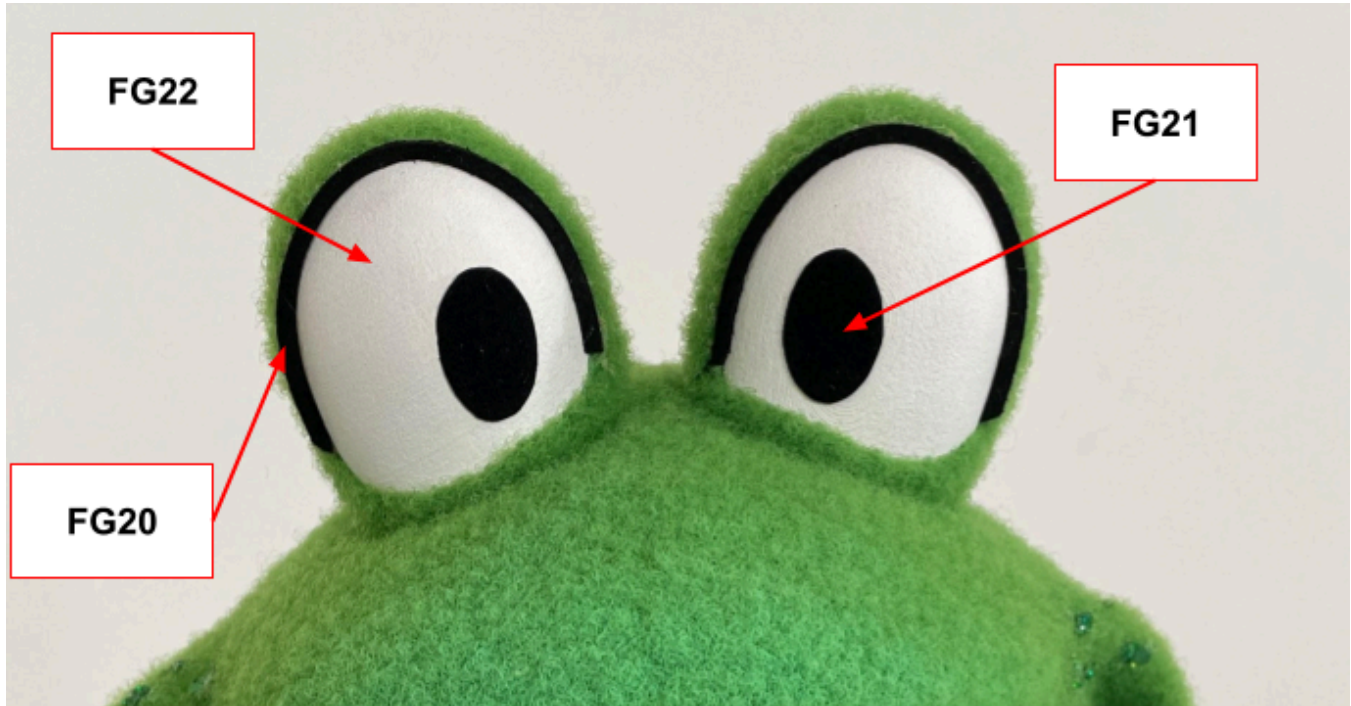




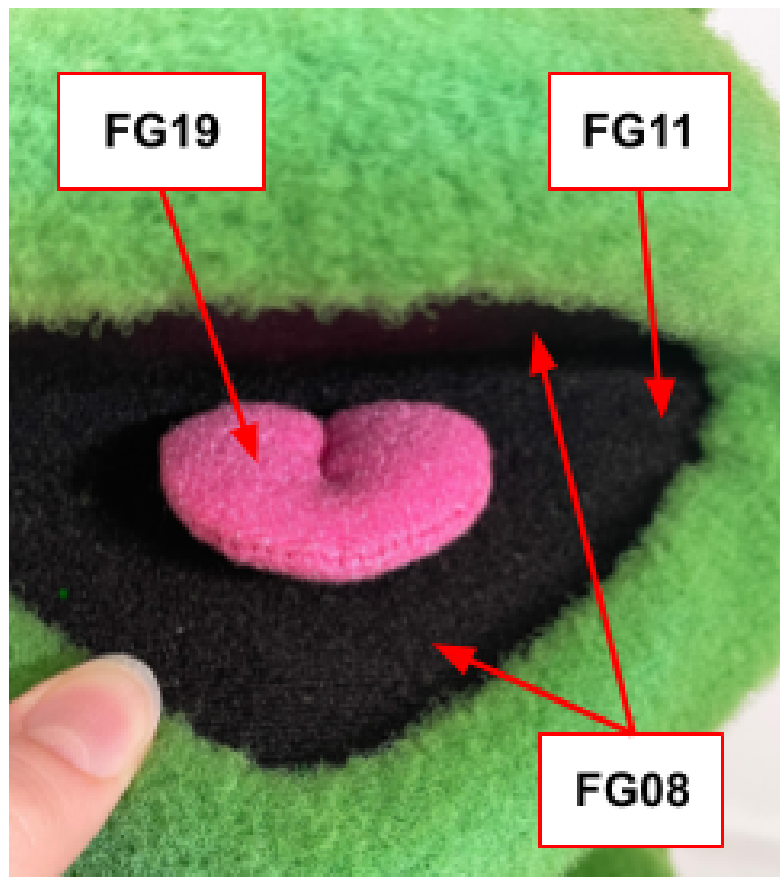
## 2.4 Right View



## 2.5 Closeup of Eyes



## 2.6 Closeup of Mouth



## 3 Description of Operating Modes

### 3.1 Operating Modes

#### 3.1.1 Storage

The Frog puppets will be stored on stands during the show.

Between performances, the puppets should be covered with its custom cover in order to protect it from the elements.

At no point should a puppet be stacked on top of or underneath another puppet or prop.

#### 3.1.2 Performance

Each Frog puppet is operated by a single performer. They should be able to do all performing actions without assistance.

### 3.2 Operating Procedures

#### 3.2.1 Removing the puppet from the stand

*\*\*Please ensure that you have clean hands before handling this puppet.\*\**

1. To remove the puppet from the stand for performance, the puppeteer should use both hands to lift the puppet straight up and off the stand.
2. Once the puppet is off the stand, cradle it with your left arm, facing down, and insert your right hand inside the neck sleeve.
3. Carefully rest your fingers on the “speedbump” on top of the mouthplate. Place your thumb into the bottom tube.

#### 3.2.2 Action: Moving Mouth

A Frog’s mouth moves when the puppeteer opens and closes their right hand.

#### 3.2.3 Action: Moving Head

To move character’s head from side to side, swivel your right wrist.

#### 3.2.4 Placing puppet on stand

To place the puppet on its stand, reverse the actions described in section 3.2.1

#### 3.2.5 Storage

To store the puppet ensure that the puppet is stable on the stand and lower the cover over the top. Draw the string around the bottom of the puppet and pull the cord lock to secure it in place. The cover does not need to be cinched completely closed around the stand.



## 4 Detailed Diagrams of Mechanisms and Hardware

N/A

## 5 Safety and Hazards

### 5.1 Safety Precautions and Hazard Identification

As is the case with any puppet, care must be taken when handling this item to make sure that the item does not become damaged beyond normal expectations.

- Care should be taken that the puppet and its accessories do not crash against walls, doorframes, other props, or other items. This could cause the puppet to become damaged or soiled.
- If the hardware on the puppet becomes loosened, pieces of the puppet will be likely to behave erratically. Care should be taken to ensure that all hardware is present and properly tightened at all times.
- All electrical systems should be regularly checked and maintained to the utmost safety standards.

### 5.2 Hazard Mitigation Strategy

There is always a chance of breakage and small injury when handling puppets and props, but Monkey Boys Productions has done their best to keep these chances low and keep both performers and technicians safe. All items have been built to be safe to handle with little chance of injury when handled correctly.

- All carbon fiber parts have been sanded to a smooth surface and sealed or covered.
- All wires and other such electrical parts have been assembled in the most safe and logical way to avoid injury and avoid becoming a hazard to performers or technicians.
- Weights and distribution of weight have been thought through to make the carrying and handling of the props easier on the performers to avoid muscular injury or strain.

These puppets are not a hazard to the environment or the performance location.

## 6 Repair & Service

### 6.1 Daily Checks and Inspections

The following list is provided as a basis for daily inspection of the puppet. Items may be added to or removed from this list as the on-site technical director sees fit.

| Check Point                  | How to Inspect                            |
|------------------------------|-------------------------------------------|
| Join between lily pad & frog | Visually and physically inspect stitching |

### 6.2 Periodic Testing

The following list is provided as a basis for periodic testing of the puppet. Items may be added to or removed from this list as the on-site technical director sees fit.

| Check Point | How to Inspect                          | When to Inspect |
|-------------|-----------------------------------------|-----------------|
| Eyes        | Visually & physically inspect stitching | Monthly         |

### 6.3 Routine Corrective Maintenance

The following list is provided as a basis for routine maintenance of items that will commonly need replacement or adjustment. Items may be added to or removed from this list as the on-site technical director sees fit.

| Check Point    | Corrective Action | When to Address |
|----------------|-------------------|-----------------|
| Lily Pad edges | reshape           | as needed       |
|                |                   |                 |

### 6.4 Puppet-specific Service Items

A basic service kit has been supplied for use with this specific prop. Refills of the items in this kit can be handled by direct purchase from the source or by emailing [contact@monkeyboysproductions.com](mailto:contact@monkeyboysproductions.com). A full manifest of these items is supplied inside the kit and is included on the final page of this manual.

### 6.5 Cleaning Fabrics

#### 6.5.1 Spot Cleaning

- Spot clean as soon as dirt and grime are noticed.
- Gently wipe with Shout or Tide wipe.
- Dab product into deeper stains.
- Blot and gently wipe with a clean, white towel.
- Make sure that the area dries well.

#### 6.5.2 Deep Cleaning Option 1 for widespread stains

- Dilute a drop of Woolite detergent in room temperature water.
- Dab on with a white cloth.
- Gently wipe & dab with clean white towel.

#### 6.5.3 Deep Cleaning Option 2 for deep stains

- Spray Bissell Pro Carpet Cleaner on worst of spot.
- Allow it to rest for 1 minute.
- Carefully dab and wipe with a clean towel, being mindful that fabric doesn't pull away from the material beneath.

#### 6.5.4 In all cases

- DO NOT rub, twist, or pull when cleaning
- DO NOT use heat, steam, or pressure
- DO NOT use bleach or other harsh chemicals
- DO NOT immerse in or saturate with water

### 6.6 Cleaning Hard Surfaces

- Hard surfaces (Carbon fiber, plastic, aluminum, grip tapes, etc.) can be wiped clean with water or a mild cleanser such as Dawn dish detergent diluted in water.
- Always use a soft cloth and work carefully to avoid scratching or damaging any coatings or paints.
- Always wipe all surfaces dry immediately after cleaning to avoid leaving water spots or otherwise damaging finishes.



## 7 Detailed Maintenance Procedures

### 7.1 Specialty information about replacing the tongue

The frog's tongue is stitched only at the back points to allow for ambient movement while the frog lip syncs.

## 8 Comprehensive Parts List

### 8.1 Understructure and Base

| Part # | Part                               | Usage                                 | Vendor                                             | Vendor Part ID |
|--------|------------------------------------|---------------------------------------|----------------------------------------------------|----------------|
| FG01   | 1/2" bra foam                      | Body, lilypad                         | <a href="http://foambymail.com">foambymail.com</a> | CPIT100010     |
| FG02   | 1/2" poly foam                     | head, arms, legs, hands, feet, tongue | <a href="http://foambymail.com">foambymail.com</a> | PE2-_1         |
| FG03   | 1/16" millinery wire               | stiffening lilypad                    | amazon                                             | B07JVY648V     |
| FG04   | heat shrink tubing                 | securing lilypad wire                 | amazon                                             | B0919GN3SX     |
| FG05   | gaff tape                          | securing lilypad wire                 | in house                                           | n/a            |
| FG06   | L300                               | finger grip in mouth                  | <a href="http://foambymail.com">foambymail.com</a> | CMS-PWB12-10   |
| FG07   | 1/2" rigid plastic boning + casing | internal support and necksleeve entry | corsetmaking.com                                   | B07CHX1GTD     |
| FG08   | 1/4" plywood                       | mouthplates                           | amazon                                             | CMS-BC-W34YD   |

### 8.2 Hardware

| Part # | Part                              | Quantity     | Usage          | Vendor        | Vendor Part ID                                                 |
|--------|-----------------------------------|--------------|----------------|---------------|----------------------------------------------------------------|
| FG09   | 1/4-20 1" black nylon thumb screw | 2 per puppet | eye attachment | McMaster-Carr | <a href="http://www.mcmaster-carr.com/94323A733">94323A733</a> |

### 8.3 Fabric and Fibers

| Part # | Part                | Usage                  | Vendor        | Vendor Part ID |
|--------|---------------------|------------------------|---------------|----------------|
| FG10   | fuzzelle fleece     | covering most surfaces | Georgia Stage | n/a            |
| FG11   | black winella       | covering mouth plates  | CRs Crafts    | 86027          |
| FG12   | black mesh          | neck sleeve            | Pico Textiles | KM446401       |
| FG13   | white cotton thread |                        | Wawak         | OTD40100       |
| FG14   | white nylon thread  |                        | Wawak         | ATDP1000       |
| FG15   | black nylon thread  |                        | Wawak         | ATDP4000       |

|      |                             |                          |               |            |
|------|-----------------------------|--------------------------|---------------|------------|
| FG16 | black cotton thread         |                          | Wawak         | # OTD40900 |
| FG17 | green nylon thread          |                          | Wawak         | # ATDP224  |
| FG18 | blue and green foil spandex | lily pad covering        | Spandex House | n/a        |
| FG19 | pink craft velour           | tongue covering          | CRs Crafts    | 86033      |
| FG20 | black sueded cording        | eyeliner                 | michaels      |            |
| FG21 | Black Velour contact paper  | pupil paper - eye pupils | Astek Home    | 205-1719   |

#### 8.4 Custom Made Parts

| Part # | Part                         | Quantity     | Usage                                        | Vendor          | Filename                                                                                                                                                                |
|--------|------------------------------|--------------|----------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FG22   | 3D printed eyes Nylon        | 2 per puppet | Eyes                                         | David Valentine | ** All Frog 3D files in Box Drive:<br><a href="https://disney.box.com/s/fu9dw7r5o8zfkxblsy2n12qlz3hlfxmi">https://disney.box.com/s/fu9dw7r5o8zfkxblsy2n12qlz3hlfxmi</a> |
| FG23   | Eye ball bolt washers - PETG | 2 per puppet | used with nylon bolts to hold eyes onto head | David Valentine |                                                                                                                                                                         |

#### 8.5 Paints and Dyes

SDS sheets are available in the separate SDS Project Packet.

| Part # | Part                                     | Usage                               | Vendor | Vendor Part ID |
|--------|------------------------------------------|-------------------------------------|--------|----------------|
| FG24   | Rit Synthetic Daffodil Yellow            | Custom dyed Fuzzelle fleece         | Amazon | B00U2IXJA8     |
| FG25   | Rit Synthetic Tropical Teal              | Custom dyed Fuzzelle fleece         | Amazon | B07KRL6SQ8     |
| FG26   | Rit Synthetic Peacock Green              | Custom dyed Fuzzelle fleece         | Amazon | B00U2IXIWW     |
| FG27   | Createx Colors Opaque Light Green (5205) | Highlight airbrush custom mix color | Amazon | B0006IJQH4     |
| FG28   | Wicked Colors Wicked White (0001)        | Highlight airbrush custom           | Amazon | B01HY2X3LY     |

|      |                                          |                                     |            |             |
|------|------------------------------------------|-------------------------------------|------------|-------------|
|      |                                          | mix color                           |            |             |
| FG29 | Wicked Colors Wicked Yellow (0003)       | Highlight airbrush custom mix color | Amazon     | B001TEKMEK  |
| FG30 | Createx Colors 4011 Reducer              | In all airbrush paint               | Amazon     | B071JZF3C2  |
| FG31 | Rustoleum White Universal Bonding Primer | Prepping 3d printed pieces - eyes   | Home Depot | # 205926957 |
| FG32 | White house paint                        | painting eyes                       | Home Depot | # 926929    |

## 8.6 Glues, Treatments, Coatings, and Chemicals

SDS sheets are available in the separate SDS Project Packet.

| Part # | Part                                           | Usage                                      | Vendor               | Vendor Part ID |
|--------|------------------------------------------------|--------------------------------------------|----------------------|----------------|
| FG33   | Barge contact adhesive                         | gluing all foam together                   | Frankford Leather    | BAPCPAR        |
| FG34   | 3M 90 spray adhesive                           | laminating lilypad layers                  | Home Depot           | # 1006518933   |
| FG35   | Holographic Chunky Glitter, Lucky Green        | accents on top of fleece                   | Amazon               | B09Y12SSN4     |
| FG36   | uxcell Mini Hot Glue Gun Sticks, Glitter Green | accents on top of fleece                   | Amazon               | B08L36RFLL     |
| FG37   | Gaff Tape                                      | connecting the top and bottom mouth plates | amazon               | B01GR5ZB2S     |
| FG38   | Top Stick                                      | securing pupil paper to eyeball            | amazon               | B0BMPLRXJS     |
| FG39   | Insta-Shield Flame Retardant                   | Fire treatment                             | Northeast FireShield | N/A            |