Fast Fix Proposal (Sample)

Fast Fix: Repairing a Warped LP Record
Team tag: CPSU-STEPHENSON-F14S1G1
Camera: Canon PowerShot A480 (10 megapixels)
Group email addresses: jessica@calpoly.edu, cody@calpoly.edu

Hello iFixit,

For our Fast Fix project, we propose to document the process of repairing a warped LP record. When exposed to excessive heat or stored improperly, records can warp to the point where they become unuseable. We will show people how to restore their records to working order.

Title:

The proposed title for our guide is: **How to Repair a Warped LP Record.**

Procedure:

Repairing a warped LP is a relatively simple process that most people can accomplish at home. Our guide will follow the outline below:

1. Clean the record.
2. Set the record between two glass panels for heating.
3. Preheat an oven to 175 degrees Fahrenheit.
4. Heat the record in the oven for 2-3 minutes.
5. Remove the record and panels from the oven.
6. Weigh down the top panel of glass while the record cools.

We expect the final guide to consist of roughly 6-7 steps.

Tools:

We will use a 10-megapixel Canon PowerShot A480 to take high-quality photos for the procedure. We plan to use the following tools in our guide:

- Glass panels
- Standard oven

We will need to use sheets of glass that might shatter if dropped or overheated, and there is a slight burn risk with the oven. However, most people have experience using ovens, and this process presents little opportunity for serious injury.

Why This Guide is Needed:

We believe this guide is necessary because warped records aren't playable on a turntable. LP records can be expensive to replace, and many record albums are only available in the original analog format. Additionally, repairing a warped LP can help to minimize potentially dangerous waste. Most municipal recycling services won't process vinyl records. When discarded in landfills, records can leak chemicals that are toxic to humans.

Existing Repair Information:

We've found a few resources that cover different methods for repairing warped records. The resources that we've found focus on videos or illustrations of the process. Some of these resources also differ greatly in the temperatures and heating times. We intend to create a guide that is easy to follow, with photographs of each step. By documenting our process we will also be able to provide a recommended temperature and heating time to our readers.

Alternative Topics

If our warped LP guide is not an option, we'd like to work on one of the following repairs:

- **Toilet Fill Valve Replacement**
  We would replace the fill valve by draining the toilet and disconnecting the tubing that runs to the fill valve before removing the fill valve itself.

- **Replacing the Slider on a Coil Zipper**
  We would replace the zipper slider by cutting off the zipper stop in order to remove the broken slider. After replacing the slider, we will add a new zipper stop.

Repair Experience Inventory

In our repair experience inventory, we found that neither of us have much experience with electronic devices. We're more experienced with hand tools and mechanical repairs. Jessica's family owns a plumbing business, and she is familiar with plumbing and some other household repairs. Cody has experience with auto repairs and basic sewing techniques. We've also learned that we're both good at researching and troubleshooting problems that we haven't seen before. Though neither of us have worked with restoring records before, we're both into vintage music and would like to learn how to keep our collections in good condition while helping others repair their damaged records.

Thank you for considering our proposal. We're excited to get started! Please let us know if we can proceed, or if you would like any modifications to our project before we start.

Sincerely,

Jessica F. and Cody G. CPSU-STEPHENSON-F14S1G1