

Kreuzberg Bando Project Repair and Maintenance Manual

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1 Introduction

Hello, if you are reading this probably you have physically opened the "Bando" and most likely want to repair it. If so, I kindly request you to contact me; since I am curious about if "bando" ever need repair or not.

This project has a codename "Kreuzberg Bando" for us and the third working bando has ever made. The previous ones are Kadıköy and İzmir respectively and made our process easier and simpler on Kreuzberg one.

2 Parts

- Raspberry Pi 3 Model A+
- Arduino Mega 2560
- Arduino Mega Sensor Shield
- Rotary Encoder modules
- 32 GB Class U1 microSD card
- 5V 3A charger (adapter)
- microUSB cable

3 Assembly and wiring

3.1 Wiring

Sound name (TR)	Sound name (EN)	Pins (S1-S2)	Channel #
Yahudi müzesi	Jewish museum	4-5	0
Çocuk	Children	16-17	1
David Bowie	David Bowie	20-21	2
Metro	U-Bahn	22-23	3
Kuş	Birds	36-37	4
Gürültü	Noise	40-41	5
Pompa	Pump	42-43	6
Saat	Clock Tower	44-45	7
Kaykay	Skateboard	48-49	8

Table 1: Rotary encoder wiring table

In addition, the "key" pins of Children and David Bowie must be wired to pin 15 and pin 19 respectively.

4 Software

TODO