

## Only Keypads I2C Encoder Project

Steps: 1 thru 15

### Build the Prototype Board

1. Introduction
2. Select Prototype Board and Populate
3. Interconnecting Patch Wires

### Basic Bench Testing

4. **Part 1** - Biasing Test Power Pins
5. **Part 2** - Biasing Transistor Test

Test Key Easy 4017 Chaser Board with EEPROM

6. **Part 1** - Integrate Hardware to Software (Introduction)
7. **Part 2** - Build EEPROM Breadboard programmer

### Download Arduino EEPROM Write Code and Arduino IDE Software

8. **Part 3** - Consists of **three** sections

**1st** ----- In Windows build the file structure in your Documents folder

**2nd** ----- Download Arduino files into your file folder

**3rd** ----- Download Arduino IDE software from Internet

### Understand AT24C02 EEPROM Character Address ID

9. **Part 4** - EEPROM Character Address ID

### Key East 4017 Chaser EEPROM Programming of character set

10. **Part 5** - Key Easy 4017 Chaser EEPROM Programming

### Download Arduino (Keypad\_4017\_chaser\_2.2A) code and bench test

11. **Part 6** - Key Easy 4017 Chaser Bench Test With Push Button

### Construct (Keypad 40) keypad Prototype Board

12. Keypad 40 Prototype Construction

### Download Frame and Template Files

13. 3D Frame and Paper Template File Download

### Demonstrate EZP2019 Programmer

14. EZP2019 Programmer for EEPROM

### Manufactured (Key Easy 4017 Chaser) and (Key Easy Two Wire) Encoder Boards

15. Resource for Further Advanced Development