

WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG

WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG IS ESSENTIAL KNOWLEDGE FOR ANYONE LOOKING TO INSTALL OR REPAIR A 12V POWER OUTLET IN A VEHICLE. THIS ARTICLE PROVIDES A COMPREHENSIVE GUIDE TO UNDERSTANDING THE WIRING LAYOUT, COMPONENTS INVOLVED, AND SAFETY PRECAUTIONS. THE CIGARETTE LIGHTER PLUG IS A COMMON POWER SOURCE FOR VARIOUS AUTOMOTIVE ACCESSORIES, AND KNOWING ITS WIRING DIAGRAM ENSURES PROPER INSTALLATION AND FUNCTIONALITY. THIS ARTICLE COVERS THE BASIC WIRING CONNECTIONS, TYPES OF PLUGS, TROUBLESHOOTING TIPS, AND BEST PRACTICES FOR SAFE USE. WHETHER INSTALLING A NEW SOCKET OR REPAIRING AN EXISTING ONE, UNDERSTANDING THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG IS CRUCIAL. THE FOLLOWING TABLE OF CONTENTS OUTLINES THE MAIN TOPICS COVERED IN THIS GUIDE.

- UNDERSTANDING THE BASICS OF A CIGARETTE LIGHTER PLUG
- COMPONENTS OF A CIGARETTE LIGHTER PLUG WIRING DIAGRAM
- STEP-BY-STEP WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG INSTALLATION
- COMMON WIRING CONFIGURATIONS AND VARIATIONS
- TROUBLESHOOTING AND SAFETY TIPS FOR CIGARETTE LIGHTER PLUG WIRING

UNDERSTANDING THE BASICS OF A CIGARETTE LIGHTER PLUG

THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG BEGINS WITH UNDERSTANDING THE BASIC FUNCTION AND PURPOSE OF THE PLUG. ORIGINALLY DESIGNED TO HEAT A CIGARETTE LIGHTER ELEMENT, THESE PLUGS HAVE EVOLVED INTO STANDARD 12V POWER OUTLETS IN VEHICLES, USED TO POWER CHARGERS, GPS DEVICES, AND OTHER ELECTRONICS. THE CIGARETTE LIGHTER PLUG CONNECTS TO THE VEHICLE'S ELECTRICAL SYSTEM, PROVIDING A 12-VOLT DC POWER SOURCE.

IN ITS SIMPLEST FORM, THE CIGARETTE LIGHTER PLUG CONSISTS OF A CYLINDRICAL SOCKET AND A PLUG THAT FITS INSIDE IT. THE SOCKET IS WIRED TO THE VEHICLE'S ELECTRICAL SYSTEM, GENERALLY CONNECTED TO THE BATTERY THROUGH A FUSE FOR PROTECTION. KNOWING HOW THESE COMPONENTS CONNECT IS THE FIRST STEP IN INTERPRETING ANY WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG.

HOW THE CIGARETTE LIGHTER PLUG WORKS

THE CIGARETTE LIGHTER PLUG OPERATES BY COMPLETING AN ELECTRICAL CIRCUIT WHEN THE PLUG IS INSERTED INTO THE SOCKET. THE CENTRAL CONTACT WITHIN THE SOCKET CONNECTS TO THE POSITIVE TERMINAL OF THE VEHICLE'S BATTERY, AND THE OUTER SHELL IS GROUNDED TO THE VEHICLE'S CHASSIS. THIS SETUP ALLOWS CURRENT TO FLOW THROUGH THE DEVICE PLUGGED INTO THE SOCKET.

PROPER WIRING ENSURES THAT THE PLUG DELIVERS CONSISTENT POWER WHILE PROTECTING THE VEHICLE'S ELECTRICAL SYSTEM FROM OVERLOADS THROUGH FUSES OR CIRCUIT BREAKERS.

COMMON USES AND APPLICATIONS

BESIDES ITS ORIGINAL PURPOSE, THE CIGARETTE LIGHTER PLUG SERVES AS A CONVENIENT POWER OUTLET FOR VARIOUS AUTOMOTIVE ACCESSORIES. THESE INCLUDE:

- MOBILE PHONE CHARGERS
- GPS NAVIGATION UNITS

- DASH CAMERAS
- PORTABLE REFRIGERATORS AND COOLERS
- AIR COMPRESSORS AND TIRE INFLATORS

UNDERSTANDING THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG ENSURES THESE DEVICES RECEIVE THE CORRECT VOLTAGE AND CURRENT WITHOUT DAMAGING THE VEHICLE'S ELECTRICAL SYSTEM.

COMPONENTS OF A CIGARETTE LIGHTER PLUG WIRING DIAGRAM

A TYPICAL WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG INCLUDES SEVERAL KEY COMPONENTS ESSENTIAL FOR SAFE AND EFFECTIVE OPERATION. FAMILIARITY WITH THESE PARTS HELPS IN BOTH INSTALLATION AND TROUBLESHOOTING.

POSITIVE POWER SUPPLY

THE POSITIVE POWER SUPPLY LINE CONNECTS THE CIGARETTE LIGHTER SOCKET TO THE VEHICLE'S 12V BATTERY. THIS LINE USUALLY PASSES THROUGH A FUSE OR CIRCUIT BREAKER TO PROTECT AGAINST ELECTRICAL FAULTS. CORRECTLY IDENTIFYING THIS WIRE IN THE WIRING DIAGRAM IS CRUCIAL FOR ENSURING THE PLUG RECEIVES POWER.

GROUND CONNECTION

THE GROUND WIRE COMPLETES THE ELECTRICAL CIRCUIT BY CONNECTING THE SOCKET'S OUTER SHELL TO THE VEHICLE'S METAL CHASSIS. THIS CONNECTION IS VITAL FOR SAFETY AND PROPER OPERATION, PREVENTING ELECTRICAL FAULTS AND ENSURING STABLE VOLTAGE SUPPLY.

FUSE OR CIRCUIT BREAKER

INCORPORATING A FUSE OR CIRCUIT BREAKER INTO THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG SAFEGUARDS THE SYSTEM FROM OVERCURRENT CONDITIONS. A FUSE RATED BETWEEN 10A AND 20A IS COMMON, DEPENDING ON THE EXPECTED LOAD. THIS COMPONENT DISCONNECTS THE CIRCUIT IF EXCESSIVE CURRENT FLOWS, PREVENTING DAMAGE OR FIRE HAZARDS.

CIGARETTE LIGHTER SOCKET AND PLUG

THE SOCKET IS THE PHYSICAL RECEPTACLE INSTALLED IN THE VEHICLE'S DASHBOARD OR PANEL, WHILE THE PLUG CONNECTS TO ACCESSORIES. BOTH COMPONENTS HAVE INTERNAL CONTACTS ALIGNED WITH THE WIRING DIAGRAM TO ENSURE PROPER ELECTRICAL FLOW WHEN ENGAGED.

STEP-BY-STEP WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG INSTALLATION

INSTALLING A CIGARETTE LIGHTER PLUG REQUIRES FOLLOWING A PRECISE WIRING DIAGRAM TO GUARANTEE SAFETY AND FUNCTIONALITY. THIS SECTION OUTLINES THE INSTALLATION PROCESS STEP-BY-STEP, FOCUSING ON THE WIRING CONNECTIONS.

STEP 1: GATHERING MATERIALS AND TOOLS

BEFORE BEGINNING THE WIRING PROCESS, GATHER THE NECESSARY MATERIALS:

- CIGARETTE LIGHTER SOCKET
- APPROPRIATE FUSE OR CIRCUIT BREAKER
- 12V AUTOMOTIVE WIRE (USUALLY 14-16 GAUGE)
- WIRE CONNECTORS AND TERMINALS
- ELECTRICAL TAPE OR HEAT SHRINK TUBING
- BASIC TOOLS: WIRE STRIPPER, CRIMPER, SCREWDRIVER, MULTIMETER

STEP 2: IDENTIFYING POWER AND GROUND WIRES

CONSULT THE VEHICLE'S WIRING DIAGRAM OR USE A MULTIMETER TO LOCATE A SUITABLE 12V POWER SOURCE AND A RELIABLE GROUND POINT. THE POWER SOURCE SHOULD BE FUSED AND LIVE ONLY WHEN THE IGNITION IS ON, IF DESIRED, TO PREVENT BATTERY DRAIN.

STEP 3: WIRING THE POSITIVE LEAD

CONNECT THE POSITIVE WIRE FROM THE FUSE BOX OR POWER SOURCE TO THE CENTER TERMINAL OF THE CIGARETTE LIGHTER SOCKET. ENSURE THAT A FUSE APPROPRIATE FOR THE LOAD IS INSTALLED INLINE TO PROTECT THE CIRCUIT.

STEP 4: WIRING THE GROUND LEAD

ATTACH THE GROUND WIRE TO THE OUTER SHELL TERMINAL OF THE SOCKET AND SECURELY CONNECT IT TO THE VEHICLE'S CHASSIS OR A KNOWN GROUND POINT. USE A CLEAN, UNPAINTED METAL SURFACE FOR OPTIMAL GROUNDING.

STEP 5: TESTING THE CONNECTION

AFTER COMPLETING THE WIRING, TEST THE SOCKET WITH A COMPATIBLE DEVICE OR MULTIMETER TO VERIFY PROPER VOLTAGE AND GROUNDING. CONFIRM THAT THE FUSE REMAINS INTACT AND THAT NO EXCESSIVE HEAT OR SPARKS OCCUR DURING OPERATION.

COMMON WIRING CONFIGURATIONS AND VARIATIONS

THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG MAY VARY DEPENDING ON THE VEHICLE TYPE, INSTALLATION LOCATION, AND ADDITIONAL FEATURES. UNDERSTANDING THESE VARIATIONS HELPS TAILOR INSTALLATIONS TO SPECIFIC NEEDS.

SWITCHED VS. CONSTANT POWER WIRING

SOME INSTALLATIONS REQUIRE THE SOCKET TO BE POWERED ONLY WHEN THE IGNITION IS ON. THIS IS ACHIEVED BY CONNECTING THE POSITIVE WIRE TO A SWITCHED POWER SOURCE. CONVERSELY, CONSTANT POWER WIRING PROVIDES POWER REGARDLESS OF IGNITION STATUS, USEFUL FOR ACCESSORIES THAT NEED CONTINUOUS OPERATION.

INCORPORATING LED INDICATORS

SOME CIGARETTE LIGHTER SOCKETS INCLUDE LED INDICATORS TO SHOW POWER PRESENCE. THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG WITH AN LED INVOLVES AN ADDITIONAL CONNECTION FOR THE LED, OFTEN REQUIRING A RESISTOR AND PROPER POLARITY ALIGNMENT.

MULTIPLE OUTLET WIRING

FOR VEHICLES REQUIRING MORE THAN ONE CIGARETTE LIGHTER SOCKET, WIRING DIAGRAMS SHOW PARALLEL CONNECTIONS WITH INDIVIDUAL FUSES OR A SHARED FUSE PANEL. PROPER WIRING ENSURES ALL OUTLETS RECEIVE ADEQUATE POWER WITHOUT OVERLOADING CIRCUITS.

TROUBLESHOOTING AND SAFETY TIPS FOR CIGARETTE LIGHTER PLUG WIRING

PROPER WIRING AND MAINTENANCE OF CIGARETTE LIGHTER PLUGS ARE CRITICAL FOR PREVENTING ELECTRICAL FAILURES AND SAFETY HAZARDS. THIS SECTION COVERS COMMON ISSUES AND BEST PRACTICES INFORMED BY THE WIRING DIAGRAM FOR CIGARETTE LIGHTER PLUG.

COMMON WIRING PROBLEMS

FREQUENT ISSUES INCLUDE BLOWN FUSES, POOR GROUNDING, LOOSE CONNECTIONS, AND DAMAGED WIRES. SYMPTOMS SUCH AS NO POWER TO THE SOCKET, INTERMITTENT OPERATION, OR BURNING SMELLS INDICATE WIRING FAULTS THAT SHOULD BE ADDRESSED PROMPTLY.

SAFETY PRECAUTIONS

ADHERING TO SAFETY GUIDELINES REDUCES THE RISK OF ELECTRICAL SHOCK, FIRE, OR DAMAGE:

- ALWAYS DISCONNECT THE VEHICLE BATTERY BEFORE WORKING ON WIRING
- USE THE CORRECT FUSE RATING FOR THE CIRCUIT
- SECURE ALL CONNECTIONS WITH PROPER TERMINALS AND INSULATION
- AVOID ROUTING WIRES NEAR SHARP EDGES OR HEAT SOURCES
- TEST THE CIRCUIT THOROUGHLY BEFORE REGULAR USE

MAINTENANCE RECOMMENDATIONS

REGULAR INSPECTION OF THE CIGARETTE LIGHTER PLUG WIRING HELPS IDENTIFY WEAR OR DAMAGE EARLY. CLEAN CONTACTS, CHECK FUSE INTEGRITY, AND ENSURE GROUNDING POINTS REMAIN CORROSION-FREE TO MAINTAIN RELIABLE OPERATION.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE STANDARD WIRING COLOR CODE FOR A CIGARETTE LIGHTER PLUG?

TYPICALLY, THE POSITIVE WIRE IS RED OR YELLOW, AND THE NEGATIVE (GROUND) WIRE IS BLACK. THE POSITIVE WIRE CONNECTS TO THE CENTER PIN OF THE PLUG, AND THE NEGATIVE WIRE CONNECTS TO THE OUTER SHELL.

HOW DO I WIRE A CIGARETTE LIGHTER PLUG TO A 12V POWER SOURCE?

CONNECT THE POSITIVE WIRE OF THE CIGARETTE LIGHTER PLUG TO THE POSITIVE TERMINAL OF THE 12V POWER SOURCE, AND CONNECT THE NEGATIVE WIRE TO THE NEGATIVE TERMINAL OR GROUND. ENSURE PROPER INSULATION AND SECURE CONNECTIONS TO PREVENT SHORTS.

CAN I USE A CIGARETTE LIGHTER PLUG WIRING DIAGRAM FOR A USB CAR CHARGER INSTALLATION?

YES, MANY USB CAR CHARGERS USE THE SAME WIRING AS STANDARD CIGARETTE LIGHTER PLUGS, WITH A POSITIVE WIRE TO THE CENTER PIN AND A NEGATIVE WIRE TO THE OUTER SHELL. ALWAYS VERIFY THE VOLTAGE AND POLARITY BEFORE INSTALLATION.

WHAT SAFETY PRECAUTIONS SHOULD I TAKE WHEN WIRING A CIGARETTE LIGHTER PLUG?

ENSURE THE POWER SOURCE IS DISCONNECTED BEFORE WIRING, USE APPROPRIATE WIRE GAUGE, FUSE THE POSITIVE LINE TO PREVENT OVERCURRENT, DOUBLE-CHECK POLARITY, AND SECURE CONNECTIONS TO AVOID SHORTS OR LOOSE CONTACTS.

WHERE CAN I FIND A RELIABLE WIRING DIAGRAM FOR A CIGARETTE LIGHTER PLUG?

RELIABLE WIRING DIAGRAMS CAN BE FOUND IN VEHICLE SERVICE MANUALS, ELECTRONICS HOBBYIST WEBSITES, AUTOMOTIVE FORUMS, OR MANUFACTURER DOCUMENTATION FOR CIGARETTE LIGHTER PLUGS AND ACCESSORIES.

ADDITIONAL RESOURCES

1. *WIRING DIAGRAMS FOR AUTOMOTIVE ACCESSORIES*

THIS BOOK OFFERS COMPREHENSIVE WIRING DIAGRAMS SPECIFICALLY DESIGNED FOR AUTOMOTIVE ACCESSORIES, INCLUDING CIGARETTE LIGHTER PLUGS. IT COVERS THE BASICS OF ELECTRICAL SYSTEMS IN VEHICLES AND PROVIDES STEP-BY-STEP GUIDES TO PROPERLY INSTALL AND TROUBLESHOOT WIRING. IDEAL FOR BOTH BEGINNERS AND EXPERIENCED DIY ENTHUSIASTS, THIS GUIDE ENSURES SAFE AND EFFECTIVE WIRING PRACTICES.

2. *THE COMPLETE GUIDE TO 12V WIRING IN CARS*

FOCUSING ON 12-VOLT SYSTEMS COMMONLY FOUND IN VEHICLES, THIS BOOK DETAILS THE WIRING OF CIGARETTE LIGHTER PLUGS AND OTHER COMPONENTS. IT EXPLAINS THE ELECTRICAL PRINCIPLES INVOLVED AND INCLUDES DIAGRAMS TO SIMPLIFY COMPLEX CONNECTIONS. READERS WILL LEARN HOW TO INSTALL, REPAIR, AND CUSTOMIZE THEIR CAR'S ELECTRICAL ACCESSORIES WITH CONFIDENCE.

3. *AUTOMOTIVE ELECTRICAL SYSTEMS AND WIRING HANDBOOK*

THIS HANDBOOK PROVIDES AN IN-DEPTH LOOK AT AUTOMOTIVE ELECTRICAL SYSTEMS, INCLUDING DETAILED WIRING DIAGRAMS FOR CIGARETTE LIGHTER PLUGS. IT ADDRESSES COMMON PROBLEMS AND SOLUTIONS, OFFERING PRACTICAL ADVICE FOR MAINTENANCE AND UPGRADES. THE BOOK IS A VALUABLE RESOURCE FOR TECHNICIANS, HOBBYISTS, AND STUDENTS.

4. *DIY CAR WIRING: INSTALLING ACCESSORIES AND UPGRADES*

DESIGNED FOR DIY ENTHUSIASTS, THIS BOOK COVERS THE INSTALLATION OF VARIOUS CAR ACCESSORIES, WITH A SECTION DEDICATED TO CIGARETTE LIGHTER PLUG WIRING. IT INCLUDES CLEAR DIAGRAMS, TOOL RECOMMENDATIONS, AND SAFETY TIPS. THE GUIDE EMPOWERS READERS TO ENHANCE THEIR VEHICLES' FUNCTIONALITY WITHOUT PROFESSIONAL HELP.

5. *ELECTRICAL WIRING BASICS FOR AUTOMOTIVE APPLICATIONS*

THIS INTRODUCTORY BOOK EXPLAINS FUNDAMENTAL CONCEPTS OF AUTOMOTIVE ELECTRICAL WIRING, INCLUDING HOW TO WIRE

CIGARETTE LIGHTER PLUGS CORRECTLY. IT BREAKS DOWN COMPLEX INFORMATION INTO EASY-TO-UNDERSTAND LANGUAGE, SUPPORTED BY ILLUSTRATIVE DIAGRAMS. PERFECT FOR NEWCOMERS WANTING TO LEARN ESSENTIAL WIRING SKILLS.

6. MODERN VEHICLE WIRING DIAGRAMS AND TROUBLESHOOTING

PROVIDING UPDATED WIRING DIAGRAMS FOR MODERN VEHICLES, THIS BOOK COVERS CIGARETTE LIGHTER PLUGS AMONG OTHER COMPONENTS. IT EMPHASIZES TROUBLESHOOTING TECHNIQUES TO DIAGNOSE AND FIX WIRING ISSUES EFFICIENTLY. THE BOOK ALSO DISCUSSES NEW TECHNOLOGIES AND STANDARDS IN AUTOMOTIVE ELECTRICAL SYSTEMS.

7. CIGARETTE LIGHTER PLUG WIRING AND POWER SOLUTIONS

DEDICATED SPECIFICALLY TO CIGARETTE LIGHTER PLUGS AND THEIR WIRING, THIS BOOK EXPLORES BOTH STANDARD AND CUSTOM WIRING METHODS. IT EXPLAINS POWER DISTRIBUTION, FUSE PROTECTION, AND CONNECTOR TYPES, HELPING READERS CREATE RELIABLE POWER SOURCES FOR THEIR DEVICES. SUITABLE FOR PROFESSIONALS AND HOBBYISTS ALIKE.

8. AUTOMOTIVE WIRING MADE SIMPLE: CIGARETTE LIGHTER CIRCUITS

THIS CONCISE MANUAL SIMPLIFIES THE PROCESS OF WIRING CIGARETTE LIGHTER CIRCUITS IN VEHICLES. IT INCLUDES EASY-TO-FOLLOW DIAGRAMS AND INSTRUCTIONS FOR INSTALLATION, REPAIR, AND MODIFICATION. THE BOOK IS IDEAL FOR QUICK REFERENCE AND PRACTICAL APPLICATION.

9. SAFE AND EFFICIENT WIRING FOR VEHICLE ACCESSORIES

FOCUSING ON SAFETY AND EFFICIENCY, THIS BOOK TEACHES PROPER WIRING TECHNIQUES FOR VARIOUS VEHICLE ACCESSORIES, INCLUDING CIGARETTE LIGHTER PLUGS. IT HIGHLIGHTS COMMON PITFALLS AND HOW TO AVOID ELECTRICAL HAZARDS. READERS WILL GAIN CONFIDENCE IN PERFORMING SECURE AND CODE-COMPLIANT WIRING WORK.

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can build and install themselves. From cooking in solar ovens, to mounting solar panels on your roof, this book teaches how to take advantage of solar energy. It's all possible with relatively small investments and minimal DIY building experience. You'll learn how to make: Tool trailer with available AC-power (directly from the sun) Solar systems for marine crafts Solar-powered security light Solar water heater Solar hot-air collector window mount Solar lumber kiln Solar battery charging station With clear instructions, tips, and step-by-step color photos for each project, this book takes the intimidation out of DIY solar builds. For those with more ambitious solar power plans, this updated edition contains information on outfitting your home with solar electricity collection systems and integrating them into your primary power supply system. Excitement about home solar energy is exploding, and *DIY Solar Projects: Updated Edition* sheds light on how you can get involved immediately. This book also offers an extensive resource guide with links to tax-reducing, subsidy, and support programs on both a national and state-by-state level. With high energy costs and an environment that demands cleaner fuel sources, now is the time to introduce new, cost-saving solar projects into your home.

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wiring diagram for cigarette lighter plug: *An Easy Pedal* Richard Jakl, 2019-03-13 The converting of my bicycle to a pedal assist electric started with the idea of putting to use an automotive power window motor I had for many years. I first made a list of my design objectives. Main objectives were: very easy to pedal or no pedaling, very low in cost, parts readily available, simple design to make and assemble. I took this project as a fun engineering challenge. After making many various prototypes, the final design concept made pedaling almost effortless. I thank two of my grandchildren for making suggestions, comments and helped with some road testing. After further testing, I thought why not share this design concept with others and write a book on how to convert a bicycle to a pedal assist electric. Pedal assist electric bicycles are not conserved motorized vehicles, so they can travel on pathways and trails marked Motorized Vehicles Prohibited The step by step building instructions, detailed drawings, schematics, wiring diagrams, complete material lists and many pictures should greatly help in building and assembly. Hopefully you can make this a fun project as it was for me.

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survival after Z-day, written by hardware hacker and zombie anthropologist Simon Monk, will teach you how to generate your own electricity, salvage parts, craft essential electronics, and out-survive the undead.

- Take charge of your environment:
- Monitor zombie movement with trip wires and motion sensors
- Keep vigilant watch over your compound with Arduino and Raspberry Pi surveillance systems
- Power zombie defense devices with car batteries, bicycle generators, and solar power

Escape imminent danger:

- Repurpose old disposable cameras for zombie-distracting flashbangs
- Open doors remotely for a successful sprint home
- Forestall subplot disasters with fire and smoke detectors

Communicate with other survivors:

- Hail nearby humans using Morse code
- Pass silent messages with two-way vibration walkie-talkies
- Fervently scan the airwaves with a frequency hopper

For anyone from the budding maker to the keen hobbyist, *The Maker's Guide to the Zombie Apocalypse* is an essential survival tool. Uses the Arduino Uno board and Raspberry Pi Model B+ or Model 2

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