

WIRING FOR GARBAGE DISPOSAL WITH SWITCH

WIRING FOR GARBAGE DISPOSAL WITH SWITCH IS AN ESSENTIAL ASPECT OF KITCHEN APPLIANCE INSTALLATION THAT ENSURES SAFE AND EFFICIENT OPERATION. PROPER ELECTRICAL WIRING ALLOWS THE GARBAGE DISPOSAL UNIT TO FUNCTION EFFECTIVELY WHILE BEING CONTROLLED CONVENIENTLY BY A WALL SWITCH. THIS ARTICLE COVERS THE FUNDAMENTAL PRINCIPLES, SAFETY CONSIDERATIONS, NECESSARY TOOLS, AND STEP-BY-STEP INSTRUCTIONS FOR WIRING A GARBAGE DISPOSAL WITH A SWITCH. UNDERSTANDING THE ELECTRICAL REQUIREMENTS AND FOLLOWING CODE REGULATIONS WILL HELP AVOID HAZARDS AND EXTEND THE LONGEVITY OF THE DISPOSAL UNIT. ADDITIONALLY, THIS GUIDE DISCUSSES TROUBLESHOOTING COMMON WIRING ISSUES AND MAINTENANCE TIPS TO KEEP THE SYSTEM RUNNING SMOOTHLY. WHETHER INSTALLING A NEW DISPOSAL OR REPLACING AN EXISTING ONE, MASTERING WIRING FOR GARBAGE DISPOSAL WITH SWITCH IS CRUCIAL FOR ANY HOMEOWNER OR ELECTRICIAN. THE FOLLOWING SECTIONS PROVIDE A COMPREHENSIVE OVERVIEW OF THE TOPIC TO ASSIST IN ACHIEVING A PROFESSIONAL AND COMPLIANT INSTALLATION.

- UNDERSTANDING ELECTRICAL REQUIREMENTS FOR GARBAGE DISPOSAL
- TOOLS AND MATERIALS NEEDED FOR WIRING
- STEP-BY-STEP GUIDE TO WIRING GARBAGE DISPOSAL WITH SWITCH
- SAFETY PRECAUTIONS AND ELECTRICAL CODES
- TROUBLESHOOTING COMMON WIRING ISSUES
- MAINTENANCE TIPS FOR GARBAGE DISPOSAL WIRING

UNDERSTANDING ELECTRICAL REQUIREMENTS FOR GARBAGE DISPOSAL

PROPER WIRING FOR GARBAGE DISPOSAL WITH SWITCH BEGINS WITH UNDERSTANDING THE ELECTRICAL SPECIFICATIONS OF THE DISPOSAL UNIT. MOST GARBAGE DISPOSALS OPERATE ON A STANDARD 120-VOLT CIRCUIT AND TYPICALLY REQUIRE A DEDICATED 15-AMP OR 20-AMP CIRCUIT BREAKER. THIS DEDICATED CIRCUIT PREVENTS ELECTRICAL OVERLOAD AND INTERFERENCE WITH OTHER APPLIANCES.

THE WIRING SETUP GENERALLY INCLUDES A POWER SUPPLY LINE, A WALL SWITCH TO CONTROL THE UNIT, AND A CONNECTION TO THE DISPOSAL'S MOTOR. THE SWITCH ACTS AS A REMOTE CONTROL, ALLOWING THE USER TO TURN THE DISPOSAL ON OR OFF CONVENIENTLY WITHOUT UNPLUGGING IT.

MOST UNITS HAVE A POWER CORD THAT PLUGS INTO AN OUTLET UNDER THE SINK, BUT HARDWIRED INSTALLATIONS ARE ALSO COMMON. THE SWITCH WIRING MUST COMPLY WITH LOCAL ELECTRICAL CODES, AND THE CIRCUIT SHOULD INCLUDE A GROUND WIRE TO PREVENT ELECTRICAL SHOCK HAZARDS. UNDERSTANDING THE DIFFERENCE BETWEEN A SINGLE-POLE SWITCH AND OTHER TYPES OF SWITCHES IS ALSO IMPORTANT FOR PROPER INSTALLATION.

ELECTRICAL SPECIFICATIONS OF GARBAGE DISPOSAL UNITS

THE TYPICAL GARBAGE DISPOSAL UNIT REQUIRES 120 VOLTS AC AND DRAWS BETWEEN 4.5 TO 7.0 AMPS DEPENDING ON THE HORSEPOWER RATING. THE POWER CORD IS USUALLY RATED FOR 15 AMPS, WHICH IS SUFFICIENT FOR MOST RESIDENTIAL DISPOSALS. THE NATIONAL ELECTRICAL CODE (NEC) RECOMMENDS A DEDICATED CIRCUIT FOR KITCHEN DISPOSALS TO AVOID TRIPPED BREAKERS.

TYPES OF SWITCHES USED

THE MOST COMMON SWITCH USED FOR GARBAGE DISPOSALS IS A SINGLE-POLE SWITCH, WHICH CONTROLS THE FLOW OF

ELECTRICITY FROM THE POWER SOURCE TO THE DISPOSAL UNIT. MOMENTARY OR CONTINUOUS-ON SWITCHES CAN BE USED DEPENDING ON USER PREFERENCE AND INSTALLATION SPECIFICS.

TOOLS AND MATERIALS NEEDED FOR WIRING

WIRING FOR GARBAGE DISPOSAL WITH SWITCH REQUIRES A SET OF SPECIALIZED TOOLS AND MATERIALS TO ENSURE A CLEAN, SAFE, AND CODE-COMPLIANT INSTALLATION. HAVING THE RIGHT EQUIPMENT ON HAND BEFORE BEGINNING THE PROJECT IS CRITICAL TO AVOID DELAYS AND ERRORS.

ESSENTIAL TOOLS INCLUDE WIRE STRIPPERS, A VOLTAGE TESTER, SCREWDRIVERS, PLIERS, A DRILL, AND ELECTRICAL TAPE. MATERIALS TYPICALLY INVOLVE ELECTRICAL WIRES (USUALLY 14/2 OR 12/2 NM CABLE), A GROUNDED ELECTRICAL BOX, A SINGLE-POLE SWITCH, WIRE NUTS, AND A POWER OUTLET OR JUNCTION BOX DEPENDING ON THE SETUP.

LIST OF REQUIRED TOOLS

- WIRE STRIPPERS AND CUTTERS
- VOLTAGE TESTER OR MULTIMETER
- PHILLIPS AND FLATHEAD SCREWDRIVERS
- NEEDLE-NOSE PLIERS
- ELECTRIC DRILL WITH BITS
- ELECTRICAL TAPE

MATERIALS AND ELECTRICAL COMPONENTS

- 14/2 OR 12/2 NON-METALLIC (NM) CABLE
- SINGLE-POLE TOGGLE SWITCH
- ELECTRICAL BOX (PLASTIC OR METAL)
- WIRE NUTS/CONNECTORS
- POWER OUTLET OR JUNCTION BOX (IF NEEDED)
- GROUNDING WIRE AND GROUNDING SCREWS

STEP-BY-STEP GUIDE TO WIRING GARBAGE DISPOSAL WITH SWITCH

INSTALLING WIRING FOR GARBAGE DISPOSAL WITH SWITCH INVOLVES A SYSTEMATIC APPROACH TO CONNECT THE POWER SOURCE, SWITCH, AND DISPOSAL UNIT SAFELY. THE FOLLOWING STEPS OUTLINE THE PROCESS, ASSUMING THE DISPOSAL IS HARDWIRED AND CONTROLLED BY A WALL SWITCH.

STEP 1: TURN OFF POWER

BEGIN BY TURNING OFF THE CIRCUIT BREAKER SUPPLYING POWER TO THE GARBAGE DISPOSAL CIRCUIT. USE A VOLTAGE TESTER TO CONFIRM THAT NO ELECTRICITY IS FLOWING THROUGH THE WIRES BEFORE PROCEEDING.

STEP 2: INSTALL ELECTRICAL BOX AND SWITCH

MOUNT THE ELECTRICAL BOX AT A CONVENIENT LOCATION NEAR THE SINK. ATTACH THE SINGLE-POLE SWITCH INSIDE THE BOX AND SECURE IT PROPERLY. THIS SWITCH WILL CONTROL THE POWER FLOW TO THE DISPOSAL UNIT.

STEP 3: RUN ELECTRICAL CABLE

RUN A LENGTH OF NM CABLE FROM THE CIRCUIT BREAKER PANEL TO THE SWITCH BOX, AND THEN FROM THE SWITCH BOX TO THE GARBAGE DISPOSAL UNIT. SECURE CABLES ACCORDING TO LOCAL ELECTRICAL CODE REQUIREMENTS TO PREVENT DAMAGE.

STEP 4: MAKE WIRE CONNECTIONS

STRIP THE INSULATION FROM THE ENDS OF THE WIRES AND CONNECT THEM AS FOLLOWS:

1. CONNECT THE BLACK (HOT) WIRE FROM THE POWER SOURCE TO ONE TERMINAL ON THE SWITCH.
2. CONNECT ANOTHER BLACK WIRE FROM THE OTHER TERMINAL OF THE SWITCH TO THE GARBAGE DISPOSAL'S BLACK WIRE.
3. JOIN THE WHITE (NEUTRAL) WIRES FROM THE POWER SOURCE AND DISPOSAL TOGETHER WITH A WIRE NUT.
4. CONNECT ALL GROUND WIRES (BARE COPPER OR GREEN) TOGETHER AND ATTACH TO THE GROUNDING SCREW IN THE ELECTRICAL BOX AND SWITCH.

STEP 5: SECURE CONNECTIONS AND TEST

AFTER MAKING ALL CONNECTIONS, CAREFULLY TUCK THE WIRES INTO THE ELECTRICAL BOX, MOUNT THE SWITCH COVER PLATE, RESTORE POWER AT THE BREAKER, AND TEST THE SWITCH OPERATION. THE DISPOSAL SHOULD TURN ON AND OFF SMOOTHLY VIA THE SWITCH.

SAFETY PRECAUTIONS AND ELECTRICAL CODES

ADHERING TO SAFETY PROTOCOLS AND ELECTRICAL CODES IS CRITICAL WHEN WIRING FOR GARBAGE DISPOSAL WITH SWITCH. IMPROPER WIRING CAN CAUSE ELECTRICAL SHOCKS, FIRE HAZARDS, OR DAMAGE TO THE DISPOSAL UNIT.

CONSULT LOCAL BUILDING CODES AND THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIC REQUIREMENTS REGARDING CIRCUIT BREAKERS, WIRE GAUGE, GROUNDING, AND SWITCH INSTALLATION. USING A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OUTLET IS RECOMMENDED IN WET AREAS SUCH AS KITCHENS FOR ADDED PROTECTION.

IMPORTANT SAFETY TIPS

- ALWAYS SWITCH OFF POWER AT THE CIRCUIT BREAKER BEFORE WORKING ON ELECTRICAL WIRING.
- USE A VOLTAGE TESTER TO VERIFY ABSENCE OF POWER.

- ENSURE ALL WIRE CONNECTIONS ARE SECURE AND INSULATED TO PREVENT SHORT CIRCUITS.
- USE PROPER WIRE GAUGE ACCORDING TO CIRCUIT AMPERAGE REQUIREMENTS.
- NEVER BYPASS GROUNDING WIRES; GROUNDING IS ESSENTIAL FOR SAFETY.

CODE COMPLIANCE GUIDELINES

LOCAL CODES MAY REQUIRE A DEDICATED CIRCUIT FOR THE GARBAGE DISPOSAL WITH A SPECIFIC BREAKER SIZE. THE SWITCH MUST BE INSTALLED IN AN ACCESSIBLE LOCATION WITH PROPER ELECTRICAL BOXES. USING UL-LISTED COMPONENTS AND FOLLOWING MANUFACTURER INSTALLATION INSTRUCTIONS ARE MANDATORY FOR COMPLIANCE AND WARRANTY PURPOSES.

TROUBLESHOOTING COMMON WIRING ISSUES

ISSUES WITH WIRING FOR GARBAGE DISPOSAL WITH SWITCH CAN LEAD TO THE DISPOSAL UNIT NOT OPERATING OR TRIPPING CIRCUIT BREAKERS. IDENTIFYING AND RESOLVING THESE PROBLEMS ENSURES RELIABLE PERFORMANCE AND SAFETY.

DISPOSAL DOES NOT TURN ON

CHECK IF THE CIRCUIT BREAKER HAS TRIPPED OR IF THE SWITCH IS FAULTY. USE A VOLTAGE TESTER TO VERIFY POWER AT THE SWITCH AND OUTLET. LOOSE OR DISCONNECTED WIRES MAY ALSO CAUSE FAILURE; INSPECT ALL CONNECTIONS CAREFULLY.

CIRCUIT BREAKER TRIPS FREQUENTLY

THIS MAY INDICATE AN OVERLOADED CIRCUIT, SHORT CIRCUIT, OR FAULTY DISPOSAL MOTOR. VERIFY THAT THE DISPOSAL IS ON A DEDICATED CIRCUIT WITH THE CORRECT BREAKER SIZE. INSPECT WIRING FOR DAMAGED INSULATION OR INCORRECT CONNECTIONS.

SWITCH FEELS HOT OR SPARKS

A HOT OR SPARKING SWITCH INDICATES POOR WIRING CONNECTIONS OR A DEFECTIVE SWITCH. REPLACE THE SWITCH AND ENSURE WIRES ARE TIGHTLY CONNECTED WITH NO EXPOSED COPPER.

MAINTENANCE TIPS FOR GARBAGE DISPOSAL WIRING

PROPER MAINTENANCE OF WIRING FOR GARBAGE DISPOSAL WITH SWITCH PROLONGS THE LIFE OF THE DISPOSAL UNIT AND ENSURES CONTINUED SAFETY. PERIODIC INSPECTION AND PREVENTIVE MEASURES HELP AVOID COSTLY REPAIRS OR ELECTRICAL HAZARDS.

REGULAR INSPECTION

INSPECT WIRING AND SWITCH COMPONENTS PERIODICALLY FOR SIGNS OF WEAR, CORROSION, OR DAMAGE. LOOK FOR LOOSE CONNECTIONS, DISCOLORED WIRES, OR ANY UNUSUAL SMELLS INDICATING OVERHEATING.

KEEP AREA DRY AND CLEAN

MOISTURE NEAR ELECTRICAL COMPONENTS CAN CAUSE CORROSION AND SHORT CIRCUITS. ENSURE THE AREA UNDER THE SINK REMAINS DRY, AND CLEAN ANY DEBRIS OR DUST AROUND THE SWITCH AND WIRING.

REPLACE FAULTY COMPONENTS PROMPTLY

IF ANY PART OF THE WIRING OR SWITCH SHOWS SIGNS OF MALFUNCTION OR DAMAGE, REPLACE IT IMMEDIATELY WITH PROPER RATED COMPONENTS. DO NOT ATTEMPT TEMPORARY FIXES OR BYPASS SAFETY FEATURES.

FREQUENTLY ASKED QUESTIONS

WHAT TOOLS DO I NEED FOR WIRING A GARBAGE DISPOSAL WITH A SWITCH?

YOU WILL NEED A SCREWDRIVER, WIRE STRIPPERS, WIRE NUTS, ELECTRICAL TAPE, A VOLTAGE TESTER, A POWER DRILL (IF INSTALLING A NEW SWITCH BOX), AND APPROPRIATE WIRING SUCH AS 14/2 OR 12/2 ELECTRICAL CABLE.

CAN I WIRE A GARBAGE DISPOSAL DIRECTLY TO THE POWER SOURCE WITHOUT A SWITCH?

WHILE POSSIBLE, IT IS NOT RECOMMENDED OR CODE-COMPLIANT TO WIRE A GARBAGE DISPOSAL WITHOUT A SWITCH. A DEDICATED SWITCH PROVIDES SAFETY AND CONTROL, ALLOWING YOU TO TURN OFF THE DISPOSAL WHEN NOT IN USE.

HOW DO I WIRE A GARBAGE DISPOSAL TO A WALL SWITCH?

FIRST, TURN OFF POWER AT THE CIRCUIT BREAKER. RUN ELECTRICAL CABLE FROM THE SWITCH BOX TO THE DISPOSAL. CONNECT THE BLACK (HOT) WIRE FROM THE POWER SOURCE TO ONE TERMINAL ON THE SWITCH, THEN CONNECT A BLACK WIRE FROM THE OTHER SWITCH TERMINAL TO THE GARBAGE DISPOSAL'S BLACK WIRE. CONNECT ALL WHITE (NEUTRAL) WIRES TOGETHER, AND GROUND WIRES TO THE GREEN GROUNDING SCREW OR WIRE.

WHAT TYPE OF SWITCH IS USED FOR A GARBAGE DISPOSAL?

TYPICALLY, A SINGLE-POLE TOGGLE OR ROCKER SWITCH RATED FOR 15 OR 20 AMPS IS USED FOR A GARBAGE DISPOSAL. IT SHOULD BE INSTALLED IN A PROPER ELECTRICAL BOX NEAR THE SINK.

IS IT NECESSARY TO USE A JUNCTION BOX WHEN WIRING A GARBAGE DISPOSAL?

YES, JUNCTION BOXES OR ELECTRICAL BOXES ARE NECESSARY WHEN SPLICING WIRES OR INSTALLING SWITCHES. THIS ENSURES ALL CONNECTIONS ARE SAFELY ENCLOSED AND COMPLIANT WITH ELECTRICAL CODES.

CAN I USE AN EXISTING OUTLET TO POWER A GARBAGE DISPOSAL WITH A SWITCH?

IT IS POSSIBLE IF THE OUTLET IS ON A DEDICATED CIRCUIT AND CAN HANDLE THE LOAD. HOWEVER, MANY LOCAL CODES REQUIRE A DEDICATED CIRCUIT FOR THE DISPOSAL. IT IS OFTEN BETTER TO WIRE THE DISPOSAL DIRECTLY FROM THE CIRCUIT BREAKER WITH ITS OWN SWITCH.

HOW DO I GROUND A GARBAGE DISPOSAL WHEN WIRING IT WITH A SWITCH?

CONNECT THE BARE COPPER OR GREEN GROUNDING WIRE FROM THE POWER SOURCE TO THE GREEN GROUNDING SCREW ON THE GARBAGE DISPOSAL AND THE GROUNDING TERMINAL IN THE SWITCH BOX. THIS ENSURES THE DISPOSAL IS PROPERLY GROUNDED FOR SAFETY.

ARE THERE ANY ELECTRICAL CODE REQUIREMENTS FOR WIRING A GARBAGE DISPOSAL WITH A SWITCH?

YES, ELECTRICAL CODES TYPICALLY REQUIRE A DEDICATED 15 OR 20 AMP CIRCUIT FOR THE DISPOSAL, USE OF PROPER WIRE GAUGE (USUALLY 14 OR 12 AWG), INSTALLATION OF A SWITCH WITHIN SIGHT OF THE DISPOSAL, AND USE OF A GROUNDED CIRCUIT WITH GFCI PROTECTION IF REQUIRED BY LOCAL CODE.

ADDITIONAL RESOURCES

1. *WIRING BASICS FOR GARBAGE DISPOSAL SWITCHES*

THIS BOOK PROVIDES A CLEAR AND CONCISE INTRODUCTION TO THE FUNDAMENTALS OF WIRING GARBAGE DISPOSAL UNITS TO WALL SWITCHES. IT COVERS ESSENTIAL ELECTRICAL CONCEPTS, SAFETY PRECAUTIONS, AND STEP-BY-STEP INSTRUCTIONS TO ENSURE PROPER INSTALLATION. IDEAL FOR DIY ENTHUSIASTS AND BEGINNERS ALIKE, IT DEMYSTIFIES THE PROCESS WITH EASY-TO-FOLLOW DIAGRAMS AND TIPS.

2. *THE COMPLETE GUIDE TO KITCHEN APPLIANCE WIRING*

FOCUSED ON THE ELECTRICAL SETUP OF KITCHEN APPLIANCES, THIS GUIDE INCLUDES DETAILED CHAPTERS ON GARBAGE DISPOSALS AND THEIR SWITCH CONTROLS. READERS WILL LEARN ABOUT CIRCUIT REQUIREMENTS, WIRING TYPES, AND TROUBLESHOOTING COMMON ELECTRICAL ISSUES. THE BOOK ALSO EMPHASIZES SAFETY STANDARDS AND CODE COMPLIANCE FOR RESIDENTIAL INSTALLATIONS.

3. *SAFE AND EFFICIENT GARBAGE DISPOSAL WIRING*

THIS MANUAL HIGHLIGHTS BEST PRACTICES FOR SAFELY WIRING GARBAGE DISPOSALS WITH WALL-MOUNTED SWITCHES. IT DISCUSSES DIFFERENT WIRING CONFIGURATIONS, GROUNDING TECHNIQUES, AND HOW TO INTEGRATE SWITCHES WITH EXISTING KITCHEN CIRCUITS. WITH PRACTICAL ADVICE AND SAFETY CHECKLISTS, IT HELPS HOMEOWNERS AVOID COMMON PITFALLS.

4. *DIY ELECTRICAL WIRING FOR HOME APPLIANCES*

A COMPREHENSIVE RESOURCE FOR HOMEOWNERS LOOKING TO WIRE VARIOUS APPLIANCES, INCLUDING GARBAGE DISPOSALS, THIS BOOK BREAKS DOWN COMPLEX ELECTRICAL CONCEPTS INTO MANAGEABLE TASKS. IT FEATURES DETAILED WIRING DIAGRAMS AND EXPLAINS HOW TO INSTALL SWITCHES TO CONTROL GARBAGE DISPOSALS EFFECTIVELY. THE BOOK ALSO COVERS NECESSARY TOOLS AND SAFETY GEAR.

5. *ELECTRICAL WIRING DIAGRAMS FOR KITCHEN REMODELS*

DESIGNED FOR THOSE REMODELING THEIR KITCHENS, THIS BOOK OFFERS SPECIFIC WIRING DIAGRAMS FOR GARBAGE DISPOSAL UNITS AND THEIR SWITCHES. IT INCLUDES PLANNING TIPS TO ENSURE ELECTRICAL CIRCUITS MEET CURRENT CODES AND ACCOMMODATE NEW APPLIANCE SETUPS. THE VISUAL AIDS HELP READERS VISUALIZE THE WIRING PROCESS EASILY.

6. *MASTERING GARBAGE DISPOSAL INSTALLATION AND WIRING*

THIS TITLE FOCUSES SPECIFICALLY ON THE COMPLETE INSTALLATION PROCESS OF GARBAGE DISPOSALS, WITH AN EMPHASIS ON ELECTRICAL WIRING AND SWITCH INTEGRATION. IT GUIDES READERS THROUGH SELECTING APPROPRIATE SWITCHES, WIRING METHODS, AND TESTING THE SYSTEM FOR FUNCTIONALITY AND SAFETY. IDEAL FOR BOTH NOVICES AND PROFESSIONALS.

7. *UNDERSTANDING KITCHEN ELECTRICAL SWITCHES*

EXPLORING THE ROLE OF SWITCHES IN KITCHEN APPLIANCE CONTROL, THIS BOOK COVERS VARIOUS TYPES OF SWITCHES SUITABLE FOR GARBAGE DISPOSAL UNITS. IT EXPLAINS WIRING METHODS, SWITCH PLACEMENT, AND COMPATIBILITY CONSIDERATIONS. THE AUTHOR ALSO HIGHLIGHTS ENERGY EFFICIENCY AND USER CONVENIENCE FACTORS IN SWITCH SELECTION.

8. *HOME ELECTRICAL WIRING: FOCUS ON GARBAGE DISPOSAL*

THIS PRACTICAL GUIDE TARGETS THE WIRING ASPECTS OF GARBAGE DISPOSALS WITHIN HOME ELECTRICAL SYSTEMS. IT OFFERS DETAILED INSTRUCTIONS ON CONNECTING DISPOSALS TO SWITCHES, INSTALLING JUNCTION BOXES, AND ENSURING PROPER CIRCUIT PROTECTION. THE BOOK INCLUDES TROUBLESHOOTING TIPS AND MAINTENANCE ADVICE TO KEEP SYSTEMS RUNNING SMOOTHLY.

9. *STEP-BY-STEP GARBAGE DISPOSAL WIRING AND INSTALLATION*

A HANDS-ON MANUAL PROVIDING DETAILED, SEQUENTIAL INSTRUCTIONS FOR WIRING GARBAGE DISPOSALS WITH SWITCHES. IT COVERS EVERYTHING FROM WIRING PREPARATION TO FINAL TESTING, EMPHASIZING SAFETY AND CODE COMPLIANCE THROUGHOUT. PERFECT FOR DIYERS WANTING A STRAIGHTFORWARD APPROACH TO ELECTRICAL INSTALLATION IN THE KITCHEN.

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