

WIRING DIAGRAM FOR ELECTRIC GUITAR

WIRING DIAGRAM FOR ELECTRIC GUITAR IS AN ESSENTIAL TOOL FOR MUSICIANS, TECHNICIANS, AND ENTHUSIASTS LOOKING TO UNDERSTAND OR MODIFY THE INTERNAL ELECTRICAL CONNECTIONS OF AN ELECTRIC GUITAR. THIS ARTICLE EXPLORES THE FUNDAMENTALS OF ELECTRIC GUITAR WIRING DIAGRAMS, EXPLAINING THEIR COMPONENTS, COMMON CONFIGURATIONS, AND PRACTICAL APPLICATIONS. WHETHER YOU ARE BUILDING A GUITAR FROM SCRATCH, REPAIRING A FAULTY CONNECTION, OR CUSTOMIZING YOUR INSTRUMENT'S TONE CONTROLS, A CLEAR WIRING DIAGRAM SERVES AS A RELIABLE REFERENCE. ADDITIONALLY, THIS GUIDE ADDRESSES DIFFERENT PICKUP TYPES AND HOW THEY INFLUENCE WIRING CHOICES, AS WELL AS TIPS FOR TROUBLESHOOTING WIRING ISSUES. BY MASTERING THE WIRING DIAGRAM FOR ELECTRIC GUITAR, USERS CAN ENHANCE THEIR INSTRUMENT'S PERFORMANCE AND ACHIEVE A WIDE RANGE OF SONIC POSSIBILITIES. THE FOLLOWING SECTIONS PROVIDE A DETAILED EXAMINATION OF KEY CONCEPTS AND STEP-BY-STEP GUIDANCE RELATED TO ELECTRIC GUITAR WIRING.

- UNDERSTANDING THE BASICS OF ELECTRIC GUITAR WIRING
- KEY COMPONENTS IN A WIRING DIAGRAM
- COMMON WIRING CONFIGURATIONS
- WIRING DIAGRAMS FOR DIFFERENT PICKUP TYPES
- HOW TO READ AND INTERPRET A WIRING DIAGRAM
- TROUBLESHOOTING AND MODIFYING GUITAR WIRING

UNDERSTANDING THE BASICS OF ELECTRIC GUITAR WIRING

A WIRING DIAGRAM FOR ELECTRIC GUITAR ILLUSTRATES THE ELECTRICAL CONNECTIONS BETWEEN THE INSTRUMENT'S COMPONENTS, INCLUDING PICKUPS, VOLUME AND TONE CONTROLS, SWITCHES, AND OUTPUT JACK. THIS SCHEMATIC REPRESENTATION HELPS VISUALIZE HOW SIGNALS FLOW FROM THE GUITAR STRINGS, THROUGH THE PICKUPS, TO THE AMPLIFIER. PROPER WIRING ENSURES OPTIMAL SIGNAL INTEGRITY, MINIMAL NOISE, AND DESIRED TONAL CHARACTERISTICS. THE WIRING TYPICALLY INVOLVES SOLDERED CONNECTIONS, INSULATED WIRES, AND SPECIFIC GROUNDING POINTS TO REDUCE HUM AND INTERFERENCE. UNDERSTANDING THE BASICS OF WIRING ENABLES USERS TO IDENTIFY ISSUES AND CUSTOMIZE THEIR INSTRUMENT EFFECTIVELY.

SIGNAL FLOW IN ELECTRIC GUITARS

THE SIGNAL GENERATED BY THE VIBRATION OF THE GUITAR STRINGS IS CONVERTED INTO AN ELECTRICAL CURRENT BY THE PICKUPS. THIS CURRENT THEN TRAVELS THROUGH THE GUITAR'S INTERNAL WIRING, PASSING THROUGH VARIOUS CONTROLS BEFORE REACHING THE OUTPUT JACK. A WIRING DIAGRAM VISUALLY TRACES THIS PATH, SHOWING HOW COMPONENTS ARE CONNECTED IN SERIES OR PARALLEL CIRCUITS. RECOGNIZING THE DIRECTION AND FLOW OF THE SIGNAL IS CRUCIAL FOR SUCCESSFUL WIRING MODIFICATIONS.

IMPORTANCE OF GROUNDING

GROUNDING IS A FUNDAMENTAL ASPECT OF ELECTRIC GUITAR WIRING, AS IT PREVENTS UNWANTED ELECTRICAL NOISE AND HUM. THE WIRING DIAGRAM FOR ELECTRIC GUITAR CLEARLY MARKS GROUNDING POINTS, WHICH CONNECT METAL PARTS OF THE GUITAR TO A COMMON GROUND LINE. PROPER GROUNDING ENSURES THAT INTERFERENCE IS MINIMIZED, RESULTING IN A CLEANER SOUND OUTPUT.

KEY COMPONENTS IN A WIRING DIAGRAM

A COMPREHENSIVE WIRING DIAGRAM FOR ELECTRIC GUITAR INCLUDES SEVERAL CRITICAL COMPONENTS, EACH SERVING A SPECIFIC FUNCTION WITHIN THE CIRCUIT. UNDERSTANDING THESE COMPONENTS FACILITATES ACCURATE INTERPRETATION AND IMPLEMENTATION OF WIRING LAYOUTS.

PICKUPS

PICKUPS ARE TRANSDUCERS THAT CONVERT STRING VIBRATIONS INTO ELECTRICAL SIGNALS. THEY COME IN VARIOUS TYPES SUCH AS SINGLE-COIL AND HUMBUCKER, EACH WITH UNIQUE WIRING REQUIREMENTS. THE DIAGRAM SHOWS THE PICKUP'S HOT AND GROUND WIRES AND HOW THEY CONNECT TO THE REST OF THE CIRCUIT.

POTS (POTENTIOMETERS)

POTS ACT AS VARIABLE RESISTORS USED FOR VOLUME AND TONE CONTROLS. TYPICAL POTENTIOMETERS IN GUITARS ARE 250k OR 500k OHMS, INFLUENCING THE TONAL RESPONSE. THE WIRING DIAGRAM DEPICTS THE THREE TERMINALS OF A POT AND THEIR CONNECTIONS.

CAPACITORS

CAPACITORS IN TONE CIRCUITS FILTER HIGH FREQUENCIES, SHAPING THE GUITAR'S SOUND. THE WIRING DIAGRAM SPECIFIES THEIR VALUES AND PLACEMENT IN RELATION TO POTS AND PICKUPS.

SWITCHES

SWITCHES SELECT PICKUPS OR ALTER WIRING PATHS, ENABLING TONAL VERSATILITY. THE DIAGRAM DETAILS THE SWITCH TYPE (E.G., TOGGLE, BLADE, ROTARY) AND TERMINAL CONNECTIONS.

OUTPUT JACK

THE OUTPUT JACK SERVES AS THE INTERFACE BETWEEN THE GUITAR AND AMPLIFIER. THE WIRING DIAGRAM SHOWS THE CONNECTION POINTS FOR THE HOT SIGNAL AND GROUND WIRES.

COMMON WIRING CONFIGURATIONS

SEVERAL STANDARD WIRING CONFIGURATIONS ARE WIDELY USED IN ELECTRIC GUITARS, EACH OFFERING DISTINCT TONAL OPTIONS AND CONTROL LAYOUTS. THE WIRING DIAGRAM FOR ELECTRIC GUITAR WILL VARY DEPENDING ON THE CHOSEN CONFIGURATION.

SINGLE PICKUP WIRING

SINGLE PICKUP WIRING IS THE SIMPLEST CONFIGURATION, INVOLVING ONE PICKUP CONNECTED DIRECTLY TO VOLUME AND TONE CONTROLS, THEN TO THE OUTPUT JACK. IT IS COMMONLY FOUND IN GUITARS LIKE THE FENDER TELECASTER'S BRIDGE PICKUP CIRCUIT.

Two Pickup Wiring

THIS SETUP TYPICALLY INCLUDES A SELECTOR SWITCH TO CHOOSE BETWEEN PICKUPS OR COMBINE THEM. THE WIRING DIAGRAM ILLUSTRATES HOW PICKUPS ARE CONNECTED IN PARALLEL OR SERIES, ALONG WITH INDIVIDUAL VOLUME AND TONE CONTROLS OR SHARED CONTROLS.

Three Pickup Wiring

POPULARIZED BY GUITARS SUCH AS THE FENDER STRATOCASTER, THIS CONFIGURATION USES A FIVE-WAY SWITCH ALLOWING MULTIPLE PICKUP COMBINATIONS. THE WIRING DIAGRAM SHOWS COMPLEX SWITCH WIRING TO ACHIEVE VARIOUS TONAL SELECTIONS.

Coil Splitting and Phase Switching

ADVANCED WIRING DIAGRAMS MAY INCLUDE MODIFICATIONS LIKE COIL SPLITTING FOR HUMBUCKERS OR PHASE SWITCHING TO ALTER THE PICKUP PHASE RELATIONSHIP. THESE REQUIRE ADDITIONAL SWITCHES AND CAREFUL WIRING TO FUNCTION CORRECTLY.

Wiring Diagrams for Different Pickup Types

PICKUP TYPES DETERMINE THE WIRING APPROACH USED IN A GUITAR. EACH PICKUP'S ELECTRICAL CHARACTERISTICS INFLUENCE HOW IT IS INTEGRATED INTO THE CIRCUIT, AS DEPICTED IN THE WIRING DIAGRAM FOR ELECTRIC GUITAR.

Single-Coil Pickups

SINGLE-COIL PICKUPS HAVE A SIMPLE WIRING SCHEME WITH TWO WIRES: HOT AND GROUND. THE WIRING DIAGRAM SHOWS DIRECT CONNECTIONS TO POTS AND SWITCHES, WITH ATTENTION TO GROUNDING FOR NOISE REDUCTION.

Humbucker Pickups

HUMBUCKERS CONTAIN TWO COILS AND OFTEN HAVE FOUR-CONDUCTOR WIRING, ALLOWING FOR SERIES, PARALLEL, OR COIL-SPLIT OPTIONS. THE WIRING DIAGRAM MUST INDICATE EACH WIRE'S FUNCTION AND THE NECESSARY SWITCH OR POT CONNECTIONS.

Active Pickups

ACTIVE PICKUPS REQUIRE A POWER SOURCE, TYPICALLY A 9-VOLT BATTERY, IN ADDITION TO STANDARD WIRING. THE WIRING DIAGRAM INCLUDES BATTERY CONNECTIONS AND MAY INCORPORATE PREAMP CIRCUITS.

How to Read and Interpret a Wiring Diagram

READING A WIRING DIAGRAM FOR ELECTRIC GUITAR INVOLVES UNDERSTANDING THE SYMBOLS, LINES, AND LABELS THAT REPRESENT COMPONENTS AND CONNECTIONS. THIS SKILL IS VITAL FOR SUCCESSFUL WIRING, REPAIRS, AND MODIFICATIONS.

Identifying Symbols and Lines

WIRING DIAGRAMS USE STANDARDIZED SYMBOLS TO REPRESENT COMPONENTS LIKE POTS, CAPACITORS, PICKUPS, AND SWITCHES.

Lines depict wires, with junctions indicating soldered connections. Recognizing these conventions aids in visualizing the actual wiring.

Following Signal Paths

Tracing the signal path from pickups to output jack helps verify proper connections. The wiring diagram guides users through the sequence of components and their impact on tone and volume.

Verifying Polarity and Grounding

Ensuring correct polarity and grounding is critical. The wiring diagram marks hot and ground wires, highlighting points where grounding must occur to avoid issues like hum or phase cancellation.

Troubleshooting and Modifying Guitar Wiring

Wiring diagrams are invaluable for diagnosing problems and implementing modifications in electric guitars. Following a wiring diagram helps identify faulty connections and plan upgrades effectively.

Common Wiring Issues

- Intermittent or no sound due to loose or broken connections
- Excessive noise or hum caused by poor grounding
- Incorrect tone or volume behavior from miswired pots or caps
- Switch malfunctions leading to pickup selection problems

Using a wiring diagram for electric guitar assists in pinpointing these issues by providing a clear map of the circuit.

Modifying Tone and Control Circuits

Modifications such as adding push-pull pots, coil splits, or alternative tone capacitor values can be planned using wiring diagrams. They illustrate how to integrate new components without disrupting existing functionality.

Safety and Best Practices

When working with guitar wiring, it is essential to use proper soldering techniques, avoid cold joints, and double-check polarity and grounding. A wiring diagram serves as a checklist to ensure all connections are correct before testing the instrument.

Frequently Asked Questions

WHAT IS A WIRING DIAGRAM FOR AN ELECTRIC GUITAR?

A WIRING DIAGRAM FOR AN ELECTRIC GUITAR IS A SCHEMATIC REPRESENTATION THAT SHOWS THE ELECTRICAL CONNECTIONS BETWEEN COMPONENTS SUCH AS PICKUPS, POTS (POTENTIOMETERS), SWITCHES, AND OUTPUT JACK.

WHY IS A WIRING DIAGRAM IMPORTANT FOR ELECTRIC GUITAR MAINTENANCE?

A WIRING DIAGRAM IS CRUCIAL FOR TROUBLESHOOTING, REPAIRING, OR MODIFYING AN ELECTRIC GUITAR'S ELECTRONICS, ENSURING CORRECT CONNECTIONS AND FUNCTIONALITY.

WHERE CAN I FIND RELIABLE WIRING DIAGRAMS FOR ELECTRIC GUITARS?

RELIABLE WIRING DIAGRAMS CAN BE FOUND ON GUITAR MANUFACTURER WEBSITES, SPECIALIZED GUITAR FORUMS, REPAIR MANUALS, AND WEBSITES LIKE SEYMOUR DUNCAN OR STEWMAC.

HOW DO I READ AN ELECTRIC GUITAR WIRING DIAGRAM?

TO READ A WIRING DIAGRAM, IDENTIFY EACH COMPONENT SYMBOL, FOLLOW THE LINES INDICATING CONNECTIONS, AND UNDERSTAND THE FLOW OF THE ELECTRICAL SIGNAL FROM PICKUPS THROUGH CONTROLS TO THE OUTPUT JACK.

CAN I MODIFY MY ELECTRIC GUITAR WIRING USING A WIRING DIAGRAM?

YES, WIRING DIAGRAMS ALLOW YOU TO MODIFY YOUR GUITAR'S ELECTRONICS BY ADDING OR CHANGING PICKUPS, SWITCHES, OR POTS TO CUSTOMIZE TONE AND FUNCTIONALITY.

WHAT ARE COMMON WIRING CONFIGURATIONS SHOWN IN ELECTRIC GUITAR WIRING DIAGRAMS?

COMMON CONFIGURATIONS INCLUDE SINGLE-COIL OR HUMBUCKER PICKUP WIRING, SERIES/PARALLEL WIRING, COIL-SPLITTING, AND DIFFERENT SWITCH SETUPS LIKE 3-WAY OR 5-WAY SELECTORS.

DO DIFFERENT ELECTRIC GUITAR MODELS HAVE UNIQUE WIRING DIAGRAMS?

YES, EACH GUITAR MODEL MAY HAVE UNIQUE WIRING DUE TO DIFFERENCES IN PICKUPS, CONTROLS, AND SWITCHES, SO IT'S IMPORTANT TO USE THE CORRECT DIAGRAM FOR YOUR SPECIFIC GUITAR.

HOW CAN I TROUBLESHOOT ELECTRIC GUITAR WIRING USING A WIRING DIAGRAM?

BY COMPARING THE ACTUAL WIRING TO THE DIAGRAM, YOU CAN IDENTIFY BROKEN CONNECTIONS, INCORRECT WIRING, OR FAULTY COMPONENTS CAUSING ISSUES LIKE NO SOUND OR UNWANTED NOISE.

IS IT SAFE TO USE A WIRING DIAGRAM TO REWIRE MY ELECTRIC GUITAR MYSELF?

YES, AS LONG AS YOU FOLLOW THE DIAGRAM CAREFULLY AND TAKE BASIC SAFETY PRECAUTIONS LIKE UNPLUGGING THE GUITAR FROM ANY AMPLIFIER, REWIRING IS SAFE FOR MOST HOBBYISTS.

WHAT TOOLS DO I NEED TO FOLLOW AN ELECTRIC GUITAR WIRING DIAGRAM?

YOU WILL NEED A SOLDERING IRON, SOLDER, WIRE CUTTERS/STRIPPERS, A MULTIMETER FOR TESTING, SCREWDRIVERS, AND POSSIBLY REPLACEMENT COMPONENTS DEPENDING ON YOUR PROJECT.

ADDITIONAL RESOURCES

1. *WIRING YOUR ELECTRIC GUITAR: A STEP-BY-STEP GUIDE*

THIS BOOK OFFERS A COMPREHENSIVE INTRODUCTION TO THE BASICS OF ELECTRIC GUITAR WIRING. IT COVERS ESSENTIAL COMPONENTS LIKE PICKUPS, POTS, SWITCHES, AND OUTPUT JACKS, PROVIDING CLEAR DIAGRAMS AND INSTRUCTIONS. IDEAL FOR BEGINNERS, IT BREAKS DOWN COMPLEX CONCEPTS INTO EASY-TO-UNDERSTAND STEPS TO HELP GUITARISTS MODIFY OR REPAIR THEIR INSTRUMENTS CONFIDENTLY.

2. *THE ELECTRIC GUITAR WIRING HANDBOOK*

FOCUSED ON DETAILED WIRING SCHEMATICS, THIS HANDBOOK SERVES AS A VALUABLE RESOURCE FOR BOTH HOBBYISTS AND PROFESSIONALS. IT INCLUDES A VARIETY OF WIRING DIAGRAMS FOR COMMON PICKUP CONFIGURATIONS AND TONE CONTROL SETUPS. THE BOOK ALSO DISCUSSES TROUBLESHOOTING TECHNIQUES TO DIAGNOSE AND FIX WIRING ISSUES EFFECTIVELY.

3. *GUITAR ELECTRONICS: WIRING AND REPAIR*

THIS GUIDE DIVES INTO THE ELECTRONICS BEHIND ELECTRIC GUITARS, EXPLAINING HOW DIFFERENT COMPONENTS INTERACT TO SHAPE TONE. READERS WILL FIND DETAILED DIAGRAMS AND EXPLANATIONS FOR INSTALLING PICKUPS, GROUNDING, AND SHIELDING. THE BOOK ALSO PROVIDES TIPS ON SOLDERING AND UPGRADING GUITAR ELECTRONICS FOR IMPROVED PERFORMANCE.

4. *CUSTOM ELECTRIC GUITAR WIRING MADE EASY*

TARGETED AT PLAYERS LOOKING TO CUSTOMIZE THEIR GUITAR'S WIRING, THIS BOOK SIMPLIFIES COMPLEX WIRING PROJECTS. IT OFFERS STEP-BY-STEP INSTRUCTIONS FOR MODIFYING TONE CIRCUITS, ADDING COIL SPLITS, AND INSTALLING PUSH-PULL POTS. PERFECT FOR INTERMEDIATE USERS AIMING TO TAILOR THEIR GUITAR'S SOUND.

5. *THE ART OF ELECTRIC GUITAR WIRING*

THIS BOOK COMBINES TECHNICAL WIRING KNOWLEDGE WITH ARTISTIC DESIGN PRINCIPLES TO HELP GUITARISTS CREATE UNIQUE WIRING SCHEMES. IT INCLUDES NUMEROUS WIRING DIAGRAMS, COLOR-CODED SCHEMATICS, AND ADVICE ON SELECTING COMPONENTS. IT'S A GREAT RESOURCE FOR THOSE WANTING TO EXPERIMENT WITH UNCONVENTIONAL WIRING SETUPS.

6. *ELECTRIC GUITAR REPAIR AND WIRING ESSENTIALS*

A PRACTICAL MANUAL FOR MAINTAINING AND REPAIRING ELECTRIC GUITARS, FOCUSING ON WIRING ISSUES. THE BOOK COVERS COMMON FAULTS, HOW TO TEST WIRING CIRCUITS, AND REPLACEMENT TECHNIQUES. IT'S AN ESSENTIAL GUIDE FOR GUITAR TECHS AND DIY ENTHUSIASTS LOOKING TO KEEP THEIR INSTRUMENTS IN TOP SHAPE.

7. *MASTERING GUITAR WIRING DIAGRAMS*

THIS BOOK SPECIALIZES IN INTERPRETING AND CREATING WIRING DIAGRAMS FOR ELECTRIC GUITARS. IT TEACHES READERS HOW TO READ SCHEMATIC SYMBOLS, UNDERSTAND CIRCUIT FLOW, AND DRAFT THEIR OWN DIAGRAMS. HELPFUL FOR THOSE WHO WANT TO GAIN A DEEPER UNDERSTANDING OF GUITAR ELECTRONICS AND DESIGN THEIR CUSTOM WIRING.

8. *PICKUP WIRING AND MODIFICATIONS FOR ELECTRIC GUITARS*

DEDICATED TO PICKUP WIRING, THIS BOOK EXPLORES VARIOUS WIRING METHODS SUCH AS SERIES, PARALLEL, AND COIL SPLITTING. IT EXPLAINS HOW EACH WIRING TYPE AFFECTS TONE AND OUTPUT, WITH DETAILED DIAGRAMS FOR EACH MODIFICATION. IDEAL FOR PLAYERS SEEKING TO EXPERIMENT WITH THEIR GUITAR'S PICKUP CONFIGURATIONS.

9. *ELECTRIC GUITAR WIRING PROJECTS: FROM BASICS TO ADVANCED*

THIS PROJECT-BASED BOOK GUIDES READERS THROUGH A RANGE OF WIRING TASKS, FROM BASIC SETUP TO COMPLEX MODIFICATIONS. EACH PROJECT INCLUDES PARTS LISTS, WIRING DIAGRAMS, AND STEP-BY-STEP INSTRUCTIONS. IT'S PERFECT FOR LEARNERS WHO PREFER HANDS-ON EXPERIENCE TO MASTER ELECTRIC GUITAR WIRING.

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wiring diagram for electric guitar: *Guitar Setup, Maintenance & Repair* John Levan, 2011-02-24 This guide will use photographs, diagrams and sketches made by the author and some provided by various manufacturers to teach how to clean, condition, adjust the action and properly intonate your acoustic guitar, as well as: John's trade secrets on hand-carving bone nuts and bridge saddles, wiring and fretwork. John has also included a chapter on identifying and diagnosing problem guitars. It even includes a forward written by Bob Taylor of Taylor Guitars. This book is perfect to teach a beginner or a reference for the guitar repair professional.

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Understand guitar theory, sounds and techniques to help you learn new songs and add your style to classic tunes Practice several popular genres of guitar music, including blues, rock, and classical Access accompanying online video and audio instructional resources that demonstrate the lessons you find in the book Perfect for guitar players at any skill level, *Guitar All-in-One For Dummies* is a must-have resource for anyone who wants to get the most out of their own guitar and make great music.

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wiring diagram for electric guitar: Rock Guitar For Dummies Jon Chappell, 2011-04-18 Face it, being a rock guitarist is just about the coolest thing you can be - next to a secret agent with a black belt in karate. But even if you were a butt-kicking international person of mystery, playing rock guitar would still be cooler because it involves art, passion, power, poetry, and the ability to move an audience of listeners. Whether moving your listeners means mowing down crowd surfers with your power chords or making the audience cry with your sensitive melodies, no other musical instrument allows you so much versatility. Whatever rocks your world, *Rock Guitar For Dummies* can help you bring that message out through your fingers and onto that electric guitar that's slung over your shoulder. If you're a beginner, you'll discover what you need to know to start playing immediately, without drowning in complicated music theory. If you've been playing for a while, you can pick up some tips to help improve your playing and move to the next level. Here's a sampling of the topics covered in *Rock Guitar For Dummies*: How electric guitars and amplifiers work Choosing the right guitar and amp for you, and how to care for them Left-hand and right-hand guitar techniques The different styles of rock guitar playing Creating great riffs The history of rock guitar Buying accessories for your new toy Top Ten lists of the guitarists you should listen to, the rock albums you must have, and the classic guitars you should know about *Rock Guitar For Dummies* also comes with a CD that includes audio of every example shown in the book, plus play-along tracks with a band. So, if you consider yourself an air guitar virtuoso and would like to try the real thing, *Rock Guitar For Dummies* can help you on your way to becoming an accomplished guitarist. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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interested guitar enthusiasts who do not have a science or engineering background.

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