

2 battery switch wiring diagram

2 Battery Switch Wiring Diagram: A Comprehensive Guide

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Introduction:

A 2 battery switch wiring diagram is crucial for anyone operating a vehicle, boat, or RV with a dual battery system. This diagram outlines the precise connection points for two batteries and a switch, enabling the user to select which battery (or both) powers the system. Understanding different 2 battery switch wiring diagrams is vital for safe and efficient operation. This guide explores various methodologies and approaches to wiring two batteries with a switch, addressing common configurations and safety considerations.

H1: Understanding the Purpose of a 2 Battery Switch

Before diving into specific 2 battery switch wiring diagrams, let's clarify the purpose. A 2 battery switch allows you to:

Isolate batteries: Prevent one battery from draining the other. This is especially crucial in situations where one battery powers essential systems (e.g., engine starting) and the other powers accessories (e.g., lights, stereo).

Select power sources: Choose which battery powers your auxiliary circuits. This is useful for conserving starting battery power or running high-draw accessories without affecting engine starting.

Combine power: Connect both batteries in parallel (with appropriate safety precautions) for increased power output for high-demand accessories.

H2: Types of 2 Battery Switch Systems

Several types of switches facilitate a 2 battery switch wiring diagram. Understanding the differences is key to selecting the right one for your needs:

Perko Switch: A popular choice in marine applications, Perko switches offer robust construction and clear switching options (battery 1, battery 2, both, and off). A 2 battery switch wiring diagram for a Perko switch typically involves a straightforward parallel connection, isolating or combining batteries as needed.

Blue Sea Systems Switch: Another reliable option known for its quality and versatility. Blue Sea Systems offers a range of switches suitable for different amperage requirements. The 2 battery switch wiring diagram will vary depending on the specific switch model, but generally follows a similar logic to the Perko switch.

Rotary Switches: These switches provide a simple way to select between different power sources. A 2 battery switch wiring diagram for a rotary switch needs careful planning to avoid short circuits. Each position needs to be clearly defined.

Battery Isolators: While not strictly a "switch" in the traditional sense, battery isolators automatically prevent battery drain between two batteries. They are particularly useful for maintaining a charged starting battery while using a second battery for accessories. The 2 battery switch wiring diagram for a battery isolator is often simpler than those with manual switches, involving diodes or relays.

H2: Common 2 Battery Switch Wiring Diagrams

Here, we'll examine a few common 2 battery switch wiring diagrams:

A. Parallel System with a Perko Switch:

This diagram showcases a typical setup where both batteries are connected in parallel through the switch to power accessories. This configuration provides maximum power for auxiliary systems. A detailed diagram with wire sizes and fuse placement will be provided in the accompanying infographic. The 2 battery switch wiring diagram clearly indicates the roles of positive (+) and negative (-) terminals, ensuring correct connections.

B. Isolated System with a Blue Sea Systems Switch:

This configuration illustrates how to isolate two batteries. Battery 1 (starting battery) powers essential systems, and Battery 2 (auxiliary battery) powers accessories. The switch allows selection between the two, preventing cross-drain. The 2 battery switch wiring diagram will clearly highlight the isolation function.

C. System with a Battery Isolator and a Rotary Switch:

This diagram integrates a battery isolator for automatic charging and a rotary switch for manual selection of power sources. This provides both automated charging and manual control over power distribution. The 2 battery switch wiring diagram demonstrates how both components work together.

H3: Safety Precautions and Considerations for 2 Battery Switch Wiring Diagrams

Safety is paramount when working with electrical systems. Here are some crucial precautions:

Disconnect the battery: Always disconnect the negative terminal of both batteries before starting any wiring work.

Use appropriate wire gauge: Select wire gauge that matches the amperage requirements. Undersized wires can overheat and cause fires.

Fuse or circuit breaker protection: Always include fuses or circuit breakers to protect the circuit from overloads and shorts. The 2 battery switch wiring diagram should clearly show the fuse/breaker location and rating.

Proper grounding: Ensure a solid ground connection for both batteries.

Use marine-grade components: In marine or RV applications, use components rated for outdoor use and resistant to corrosion.

H4: Troubleshooting Common Problems with 2 Battery Switch Wiring

Common issues include:

No power: Check all connections, fuses, and the switch itself.

One battery draining the other: The isolator or switch may be faulty, or there might be a parasitic drain somewhere in the system.

Overheating wires: The wire gauge is likely too small for the current load.

Conclusion:

A well-designed 2 battery switch wiring diagram is essential for managing dual-battery systems safely and efficiently. Understanding different switch types, wiring configurations, and safety precautions is crucial for ensuring reliable and long-lasting performance. This guide provides a foundational understanding to help you navigate the complexities of designing and implementing your own dual-battery system.

FAQs:

1. What size wire should I use for my 2 battery switch wiring diagram? The wire size depends on the amperage draw of the connected devices. Always refer to wire gauge charts to ensure adequate current carrying capacity.
1. Can I use a standard automotive switch for a marine application? No, for marine applications, use marine-grade switches rated for damp and corrosive environments.

1. What happens if I connect the batteries incorrectly? Incorrect connections can cause sparks, damage to the batteries, and potentially a fire.
1. How do I test my 2 battery switch wiring diagram? Use a multimeter to test voltage and continuity at various points in the system.
1. What is a parasitic drain, and how do I find it? A parasitic drain is a small current draw even when the system is turned off. It can be detected with a multimeter.
1. Can I combine two different battery types (e.g., AGM and flooded)? It's generally not recommended unless they are specifically designed to be compatible.
1. What is the difference between a switch and an isolator? A switch allows manual selection of power sources, while an isolator automatically prevents cross-drain.
1. How often should I inspect my 2 battery switch system? Regular inspection is crucial, checking connections, fuses, and the switch itself for corrosion or damage.
1. Where can I find a professional to install my 2 battery switch system? Contact local marine electricians or automotive specialists with experience in dual battery systems.

Related Articles:

1. Wiring a Perko Dual Battery Switch: A step-by-step guide to installing and wiring a Perko dual battery switch, including detailed diagrams.
1. Blue Sea Systems Switch Installation Guide: A comprehensive guide to installing and wiring various Blue Sea Systems dual battery switches.

1. Troubleshooting Common Dual Battery System Problems: A guide to diagnosing and fixing common issues in dual battery systems.
1. Understanding Battery Isolators and Their Applications: A detailed explanation of different types of battery isolators and their functionality.
1. Choosing the Right Battery for Your Dual Battery System: Guidance on selecting suitable batteries for different applications.
1. Calculating Wire Gauge for Dual Battery Systems: A guide to correctly calculating the appropriate wire size for different loads.
1. Safety Precautions When Working with Dual Battery Systems: A comprehensive review of safety practices when installing or maintaining dual battery systems.
1. RV Dual Battery Systems: Installation and Maintenance: A guide specifically focused on installing and maintaining dual battery systems in RVs.
1. Marine Dual Battery Systems: Best Practices and Regulations: A guide to best practices and regulations for installing dual battery systems in marine applications.

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2 battery switch wiring diagram: *Advanced Automotive Electricity and Electronics* Klyde, Kirk Vangelder, 2017-06-12 *Advanced Automotive Electricity and Electronics*, published as part of the CDX Master Automotive Technician Series, gives students with a basic understanding of automotive electrical the additional knowledge and experience they need to diagnose and fix complex electrical systems and circuits. Focused on a “strategy-based diagnostics” approach, this book helps students master technical trouble-shooting in order to address the problem correctly on the first attempt.

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2 battery switch wiring diagram: Technical Manual United States Department of the Army,

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2 battery switch wiring diagram: Radio & TV News , 1926 Some issues, Aug. 1943-Apr. 1954, are called Radio-electronic engineering ed. (called in 1943 Radionics ed.) which include a separately paged section: Radio-electronic engineering (varies) v. 1, no. 2-v. 22, no. 7 (issued separately Aug. 1954-May 1955).

2 battery switch wiring diagram: Chilton's Motor Age , 1920

2 battery switch wiring diagram: The Motor Age , 1918

2 battery switch wiring diagram: The Boat Electrics Bible Andy Johnson, 2015-09-10

Following in the successful footsteps of the groundbreaking Boat Maintenance Bible and Boat Repair Bible this new title in this popular series of all-encompassing technical reference bibles presented in an accessible, modern and attractive way is sure to be the boater's godsend. Electrics are a notoriously tricky aspect of boat ownership and maintenance - both critical to the operation of the yacht or motorboat and prone to breaking down in the damp atmosphere and bouncy conditions. This is the book that will take owners through all the likely problems and solutions including making new installations of equipment, reviving an old boat and correcting electrical faults on their current craft. Equally useful for yacht or motorboat owners and illustrated with helpful photos, detailed close-up shots, step by step exploded diagrams and instructions, this is a book every owner should keep aboard.

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Powerboater's Guide to Electrical Systems, he combines basic theory with step-by-step directions for troubleshooting problems, making repairs, and installing new equipment. Learn to Draw up a wiring diagram for your boat Locate and identify wiring and circuit components Select and use a multimeter Choose and maintain battery and marine ignition systems Troubleshoot starting, charging, and instrument problems Install DC and AC marine accessories, equipment, and electronics "Ed Sherman's nationally recognized expertise in electrical systems in boats makes him a natural choice to train and certify marine electricians. . . . He believes, as I do, that doing it right the first time will surely enhance your boating experience."--C. T. "Skip" Moyer III, Past President, American Boat & Yacht Council

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2 battery switch wiring diagram: The Radio Dealer , 1925

2 battery switch wiring diagram: Custom Auto Wiring & Electrical HP1545 Matt Strong, 2009-04-07 This indispensable guide to high performance and OEM automotive electrical systems covers electrical theory, wiring techniques and equipment, custom wiring harnesses for racing, hot rods and restorations, pre-made wiring harnesses, special electrical systems (navigational, audio, video), troubleshooting common electrical problems, dashboards and instrument, and trailer wiring.

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Additional Resources

2 - Wikipedia

2 (two) is a number, numeral and digit. It is the natural number following 1 and preceding 3. It is the smallest and the only even prime number. Because it forms the basis of a duality, it has ...

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2 (number) - Simple English Wikipedia, the free encyclopedia

2 (Two; / ˈ t uː /) is a number, numeral, and glyph. It is the number after 1 and the number before 3 . In Roman numerals, it is II.

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2 (number) - New World Encyclopedia

2 (two) is a number, numeral, and glyph that represents the number. It is the natural number [1] that follows 1 and precedes 3. It is an integer and a cardinal number, that is, a number that is ...

2 -- from Wolfram MathWorld

The number two (2) is the second positive integer and the first prime number. It is even, and is the only even prime (the primes other than 2 are called the odd primes). The number 2 is also ...

Auto Generator Start wiring diagram For Honda (EU7000is ...

Battery Bank (monitored for gen turn on) Auto Generator Start wiring diagram – For Honda (EU7000is using Remote Switch Plug) 2-13-2018 DM ≤5 amp fuse Magnum Energy, Inc. provides ...

BDX Battery Disconnect - Intellitec

Note: For wire connections please refer to suggested wiring diagram on page 5. For the 100 amp disconnects, the power and feedback lines to the switch panel will plug into the battery ...

Cat No. 9611 Series Basic Switch Cat No. 9612 Series with ...

All wiring to the switch shall be performed by a QUALIFIED MARINE ELECTRICIAN, and in accordance with the “Fire Protection Standard For Motor Craft”, N.F.P.A.* No. 302, The ...

2016 UPFITTER SCHEMATIC - Ram Trucks

The auxiliary switch function logic (BATTERY or IGNITION FED, MOMENTARY or LATCHING, LAST STATE) is programmed using the EVIC display in the instrument cluster. C ... Note – Vehicle ...

WIRING DIAGRAMS - 73-87ChevyTrucks.com

CIRCUIT COMPONENTS (Figure 2) The usual circuit path starts at the power supply which is the battery/generator system. Next in the circuits is the circuit protection component which can be a ...

FLEET WOOD - mikerobotics.com

the battery voltage and when it exceeds 13.8 volts for one hour, the chassis battery will be disconnected. When the voltage on that battery drops below 12.6 volts, the isolator will reconnect to ...

StorEdge Wiring and On Site Checklist - SolarEdge

2.4 Switch the inverter ON/OFF switch to OFF. 3 RS485 Configuration Verification (for 1 Battery and 1 meter) 3.1 If not already OFF, switch OFF the StorEdge Connection Unit

switch (for StorEdge ...

Installing a Net2 access control unit - Paxton

contains a 2A 12V DC power supply, a charging circuit for battery back up and an enclosure tamper switch. Alarm messages will be reported to the Net2 server if the lid of the ACU is opened ...

Trailer | Remolque | Remorque Cable | Cable | Câble Break ...

WIRING DIAGRAM ON BACK CABLE INSTALLATION FIG 1 FIG 2 FIG 3 CABLE CABLE CABLE
BREAK-AWAY SWITCH BREAK-AWAY SWITCH BREAK-AWAY SWITCH BUMPER CLEVIS SAFETY
CHAIN ...

DIAGRAM WITH CHARGER - CARiD

Remove Charger and Battery from the battery case. Mount battery case securely to frame, jack post or other suitable location on trailer. Bolt breakaway switch to frame of trailer or battery case ...

SOLERA POWER AWNING WIRING DIAGRAM - Amazon Web ...

Rev: 08.28.18 Page 1 CCD-0002065 SOLERA® POWER AWNING WIRING DIAGRAM TI-165
AWNINGS Solera® Power Awning motors come stock with an internal 6A auto reset
breaker. If ...

SERVICE MANUAL - Navistar

3200, 4100, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, 8600, MXT, RXT
Models Built Oct. 1, 2005 to Feb. 28, 2007 — ELECTRICAL CIRCUIT DIAGRAMS

BATTERY DISCONNECT - Intellitec

1485 Jacobs Rd. Deland, FL 32724 386.738.7307 www.intellitec.com P/N 53-00066-400 Rev.
C 032119 Intellitec INSTALLATION MANUAL BATTERY DISCONNECT BATTERY DISCONNECT
...

FOREWORD - PriusChat

WIRING DIAGRAM Provides circuit diagrams showing the circuit connections. 2004 PRIUS
(EWD555U) 3 ... The actual wiring of each system circuit is shown from the point where the
...

WIRING DIAGRAM INDEX - Mack Trucks

POWER DISTRIBUTION 1/2 WIRING DIAGRAM: AA BA:1 E SPCB1 BA:1 D A17.C A17.C(1):4
AC:4 E X10_C1 BATT IGN EMS ILLUM EMS BATT IGN ILLUM AC:0 B SPF7A FRC1_P1 STUD,
FRC1 POWER ...

A D E I N U S M A V D E T R A N O W N E E - American Autowire

A 510494 Ignition Switch and Starter Wiring Kit B 510493 Alternator Connection Kit ...
IGNITION 2 BATTERY 1 RADIO BATTERY 2 GAUGES ACCESSORY 1 PARK WIPER HEAT/AC
HORN OUT HORN ...

722 & 2722 MARINE & AUTOMOTIVE BATTERY SWITCH - Flak

The battery switch is remotely operated via a key switch (part number 722-KS2) which can
be mounted on the dash or any other convenient position. 2 Features ... mode the Battery
Switch is ...

WIRING DIAGRAM INDEX, 12V - Mack Trucks

power distribution 2/2 wiring diagram: ab cb61 body batt. stud 20a a b cb67 cir. brkr., open a b cb68 cir. brkr., cigar lighter 15a a b f71 fuse, trans (batt) 10a a b f25 fuse, hvac cab 30a a b ...

PANEL 2X4 LED EMERGENCY BATTERY BACK UP ...

1. Connect wires as shown in wiring diagram. Push all wires back into the Splice Box. Connect Inverter Plug only after supply wiring is complete. (see wiring instructions). Be careful not to ...

Instructions for LED Emergency Lighting Fixture - Exit Light Co

1. Complete the battery connection (Fig B). 3. Align snaps and push housing directly onto the back plate (Fig C.). ... When the switch is released, the lamps will go off. WIRING DIAGRAM. Note: Use ...

12 VOLT ELECTRONIC DUAL BATTERY ISOLATOR - Projecta

existing wiring. It can be fitted to all 12V vehicle types. ... 2. Mount the auxiliary battery cradle and fit the auxiliary battery. 3. ... Once the Isolator is in 'Charging mode,' turn the engine 'Off', then ...

ME-AGS* wiring diagram For Westinghouse 7500 Generators

Battery 4-1-2019 DM This diagram is provided to assist in the installation of the Auto Generator Start controller. ... 2 ENGINE SWITCH 5 amp fuse OFF Relay = SPDT 30 Amp, 12 VDC coil relay; ...

StorEdge Single Phase Inverter Wiring and On Site Check

With the disconnect switch With the auxiliary power switch To power off the battery: 1. Turn off the circuit breaker. 2. Turn off the disconnect/auxiliary power switch. To power on the battery: 1. ...

6-Volt Positive Ground Installation Instructions - CARiD

1. See figure B for wiring diagram. 2. Remove the ignition switch wire from the negative coil terminal. 3. Connect the black Ignitor wire directly to the ignition switch wire. 4. Connect the ...

User's Guide UPS 20 - 40 kVA, 230/400 V 50/60 Hz output (3 ...

The ABM monitors the status of the battery and charges it only when the battery needs charging. This is the key to long battery life with the ABM due to low generation of corrosion inside the ...

9600 Series Battery Disconnect Switch Installation Instructions

NOTE: (1) Locate switch to keep battery cables short as possible. (2) If switch is to be mounted in an area subject to corrosion, it is recommended that a liquid electrical coating

be applied to the ...

Wiring Diagram for Models Using Two p/n 0120750 Batteries

Battery 3 Battery 4 Battery 2 Battery 1 BATTERY WIRING DIAGRAMS 24 Volt AS SERIES
MODELS: AS270-24V, AS360-24V Wiring Diagram for Models Using Four p/n 0120752
Batteries Wiring ...

Sahara Series automatic Bilge Pumps PUMP MOUNTING ...

WIRING INSTRUCTIONS ... wires to the pump as shown in the applicable diagram below. 2.
Route wires out of the way and secure them to the bulkhead to avoid pulling. 3. Using butt
connectors ...

FLEETWOOD - BATTERY CONTROL CENTER - Intellitec

Switched Coach Battery, Coach Battery, Disconnect-Switched Chassis Battery, and Ignition
Switched Chassis Battery. The 20 fuses and their size are as listed: Connector LP / CO Det.
F1 10 ...

Wiring Diagrams - Products - Narva - Autonerdz

7 "d Plug & 6 R Plug & 000 nat 12 7 Pin Round Plug & socket Plug & socket o 7 Plug &

LED Emergency Battery Backup Installation Instructions

Oct 17, 2016 · WIRING DIAGRAM B (For 0-10V LED Retrofit with or without switch and
without dimmer) 12 WIRING DIAGRAM C (For non-dim LED Retrofit <23W with or without
switch) 13 ...

INSTALLATION INFORMATION EMG MODEL: STRAT (S3), ...

with bypass and an input/output section for signal output and battery power on/off. .965
1.625 Diagram #2 Diagram #1 6/32 THD TYP (2) 1.350 1.530 0230-0167B ... Diagram #6a
shows the ...

Universal Mount Battery Switch - Arrow Electronics

OPERATION: Always reserve one battery for engine starting. Use the second battery for
lights, appliances, and other ship's service. Both position parallels batteries for
emergency use. ...

Wiring Schematics E-Z-GO Golf Cars - HPEVS

Dec 21, 2010 · wiring schematics . e-z-go golf cars . rev. c . visio 12/21/10 1 1 85 86 87 30
brake lights relay 1010-ez-go ... (note *2) golf / s t r e switch reverse p4 deutsch dtm-04-6p
i/o ground ...

12-Volt Positive Ground Installation Instructions - Speedway ...

1. See figure " for wiring diagram. 2. Remove the ignition switch wire from the negative
coil terminal. 3. Connect the ignition switch wire directly to the Ignitor black wire.
Note: With the Ignitor ...

BATTERY SWITCHES INSTALLATION AND OPERATING ...

All wiring to the switch shall be performed by a QUALIFIED MARINE ELECTRICIAN, and in
accordance ... DIAGRAM #2 2 Batteries 2 Engines 2 Switches This allows either engine to ...

Port ...

StorEdge Interface Wiring and On Site Check Quick Guide

2 Wiring the System MAN-01-00615-1.2 StorEdge Interface Wiring and On Site Check Quick Guide Connecting System Components Connect the system components as shown in the diagram ...

ELECTRICAL SCHEMATICS YM 3-DIGIT MODELS - Tractor ...

SWITCH BATTERY PLUS CORD STARTING MOTOR BATTERY MINUS CORD BATTERY Red
WATER TEMP. PILOT LAMP (RED) Yellow Yellow OIL PRESSURE PILOT LAMP (RED) Yellow
Green ...

Audi A4 No. 2/1 Wiring diagram - VAG Links

Wiring diagram ws= white sw = black ro = red br = brown gn = green bl = blue gr = grey li
= lilac ge = yellow Ignition/Starter Switch, main fuse or = orange rs = pink Audi A4 No. 2/5
A-Battery B ...

SERVICE MANUAL - Navistar

1. Route and clip wiring to minimize chafing and exposure to weather. Use conduit, loom, and/or ... • Whenever disconnecting battery terminals, always disconnect the ground terminal first. When ...

Owner 's Manual Automatic Transfer Switch - Generac Power ...

blocks for transfer switch connections. Transfer Switch Mechanism See Figure 2-1. This switch is used with a single-phase system when the single-phase neutral line is to be connected to a ...

Wiring Diagram - EZGO RXV (After Jan 23, 2012) - Navitas

Battery Pack Wiring Diagram - EZGO RXV (After Jan 23, 2012) 8 POS Molex 39-01-3089
Housing 39-00-0040 Pin 1 Solenoid P1: +12V POLY P2: OTF REGEN P 3: OTF SPEED P4: OTF
...

LED Emergency Battery Backup - Litetronics

Remove lid of emergency battery backup. Adjust Dip Switch settings to position specified by your product part number. Locate part number and reference the chart on page 3 for the correct Dip ...

ST-386-83 1983 - 73-87ChevyTrucks.com

136 Dark Blue Ground, Vacuum Switch Controlled, Turbo Boost Telltale 137 Natural-Ground, Vacuum Switch White Controlled, Turbo Boost Economy Telltale 139 Pink-Black Feed, Ign. Sw. ...

WIRING DIAGRAMS - 73-87ChevyTrucks.com

Caballero/EI Camino2 . WIRING DIAGRAMS DESCRIPTION . The main wiring diagrams are laid out so that the After the main diagrams are systems diagrams. ... 2. Battery 3. Fuse .
1. 4. ...

FLEETWOOD - BATTERY CONTROL CENTER - Intellitec

Disconnect Relay while pressing the switch in the coach. Wiring or switch faulty. To check the operation, have an assistant operate the switch inside the coach while checking for voltage on ...

WIRING DIAGRAMS FIAT SPIDER 124 TYPE BS (1969 - ...

The wiring diagram provided herein is presented first in the original, "all wires" format, and subsequently with one drawing per wire color. ... 22 Engine fan motor relay switch 23 Battery ...

ME-AGS-N wiring diagram For Generac Home Standby ...

Monitored battery bank voltage 12 (on 48V setting) / 24 / 48 V ON 4 3 2 1 Dip-switch configuration (2-Wire Maintain) Evolution 2.0 Controller 12V Gen Battery Bottom of Evolution Controller ...

Universal Mount Battery Switch - Binnacle

OPERATION: Always reserve one battery for engine starting. Use the second battery for lights, appliances, and other ship's service. "Both" position parallels batteries for emergency use. ...

Wiring Diagram.dsn - sdellington.us

Battery Switch +DC In-DC In 150 W 30A (At frame below electrical compartment only, common to AC ground) Isolate battery negative on tongue 20A DC Powerpole Port + +-- ... Ranger 12 Wiring ...

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