

2 speed fan wiring diagram

Decoding the 2 Speed Fan Wiring Diagram: A Comprehensive Guide

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Introduction: Understanding a 2 speed fan wiring diagram is crucial for anyone working with or repairing fans, from HVAC systems to computer cooling solutions. This comprehensive guide will delve into the intricacies of various 2 speed fan wiring diagrams, exploring different configurations, troubleshooting common issues, and providing practical advice for both beginners and experienced technicians. We'll cover various types of 2-speed fans and explain the logic behind their wiring schemes, using clear diagrams and explanations to demystify the process.

H1: Types of 2 Speed Fan Motors and Their Wiring Diagrams

The complexity of a 2 speed fan wiring diagram depends heavily on the type of motor used. Two primary motor types dominate the 2-speed fan market: capacitor-start motors and multi-speed motors with tapped windings.

H2: Capacitor-Start 2 Speed Fan Wiring Diagram

Capacitor-start motors utilize a capacitor in the starting circuit to improve starting torque. In a 2-speed configuration, a second winding and potentially a second capacitor are employed to achieve the lower speed. The 2 speed fan wiring diagram for this type typically shows two sets of connections: one for high speed and another for low speed. Switching between speeds involves activating or deactivating the second winding and associated capacitor. A common switching mechanism involves a rotary switch or a relay controlled by a thermostat or a speed control. Analyzing a 2 speed fan wiring diagram for this type requires carefully tracing the paths of the windings and capacitors to understand how the speed is controlled. Incorrect wiring can lead to overheating or motor failure, so careful attention to detail is essential when interpreting the 2 speed fan wiring diagram.

H2: Multi-Speed Motor with Tapped Windings 2 Speed Fan Wiring Diagram

Multi-speed motors with tapped windings utilize a single winding with multiple taps, each tap corresponding to a different speed. The 2 speed fan wiring diagram for this configuration is typically simpler, showing the connections to the different taps on the winding. A switching mechanism selects the appropriate tap to achieve the desired speed. This design often results in a more compact and potentially more efficient system. The 2 speed fan wiring diagram will clearly indicate which terminals correspond to each speed. Again, correctly interpreting the 2 speed fan wiring diagram is vital to avoid damaging the motor.

H2: Understanding the Components in a 2 Speed Fan Wiring Diagram

Before delving deeper into specific diagrams, let's identify common components frequently represented in a 2 speed fan wiring diagram:

Motor Windings: These are the coils of wire that generate the magnetic field and produce torque.
Capacitors: Used in capacitor-start motors to boost starting torque and in some designs to influence speed.
Switch (Rotary or Relay): The mechanism used to select the desired speed.
Power Supply: The source of electrical power for the fan motor.
Terminals: Connection points on the motor and switch for wiring.

H1: Analyzing and Interpreting Different 2 Speed Fan Wiring Diagrams

Let's examine several examples of 2 speed fan wiring diagrams:

(Here, you would insert several detailed diagrams of different 2-speed fan configurations, including capacitor-start, tapped winding, and perhaps even some with built-in speed controllers. Each diagram needs clear labels for all components and a concise description of its operation. Images should be high-quality and professionally rendered).

H1: Troubleshooting Common Issues with 2 Speed Fans

Many problems with 2-speed fans stem from incorrect wiring or faulty components. By understanding the 2 speed fan wiring diagram, you can effectively troubleshoot these issues:

No Operation: Check power supply, switch, and wiring connections.
Only One Speed Works: Inspect the switch, relay, and associated wiring for the inactive speed. Check capacitors for capacitance.
Motor Overheating: This often indicates a problem with the motor windings, incorrect capacitor value, or short circuits in the wiring.
Erratic Speed Control: This may be due to a faulty switch, relay, or capacitor.

Systematic testing using a multimeter is crucial for accurate diagnostics.

H1: Safety Precautions When Working with 2 Speed Fan Wiring Diagrams

Always disconnect power before working with any electrical wiring. Familiarize yourself with the 2

speed fan wiring diagram completely before attempting any repairs or modifications. Use appropriate safety equipment, including insulated tools. If unsure about any aspect of the wiring, consult a qualified electrician.

Conclusion: Mastering the 2 speed fan wiring diagram is an essential skill for anyone working with fans, enabling efficient troubleshooting and repair. By understanding the different motor types, component functions, and potential problems, you can confidently diagnose and resolve issues. Remember, safety should always be your top priority when working with electrical systems.

FAQs:

1. What is the difference between a capacitor-start and a multi-speed motor? A capacitor-start motor uses a capacitor for starting torque; a multi-speed motor has tapped windings for different speeds.
1. Can I use a 2-speed fan motor on a single-speed application? Yes, you can simply connect it to the high-speed terminal.
1. How do I determine the correct capacitor value for my 2-speed fan? Consult the motor's specifications or the 2 speed fan wiring diagram.
1. What is the function of the centrifugal switch in a capacitor-start motor? It disconnects the starting capacitor once the motor reaches a certain speed.
1. Can I replace a faulty 2-speed motor with a single-speed motor? Possibly, but you might need to adapt the wiring and may not achieve optimal performance.
1. How can I test a capacitor using a multimeter? You can measure its capacitance directly using a multimeter's capacitance function.
1. Why is my 2-speed fan making unusual noises? This could indicate bearing wear, unbalanced blades, or other mechanical problems.

1. Where can I find a 2 speed fan wiring diagram for my specific model? You might find it in the user manual, on the manufacturer's website, or through online searches.

1. What type of switch is typically used to control the speeds of a 2-speed fan? Rotary switches or relays are commonly employed.

Related Articles:

1. Troubleshooting Common 2-Speed Fan Problems: This article focuses on diagnosing and fixing malfunctioning 2-speed fans, providing step-by-step guidance.

1. Selecting the Right Capacitor for Your 2-Speed Fan Motor: This article discusses the importance of capacitor selection and how to choose the appropriate value.

1. Understanding Centrifugal Switches in 2-Speed Fan Motors: A deep dive into the operation and troubleshooting of centrifugal switches.

1. Wiring Diagrams for Different Types of 2-Speed Fan Motors: This explores various wiring configurations with detailed diagrams and explanations.

1. Safety Guidelines for Working with 2-Speed Fan Wiring: This article emphasizes safety precautions when working with electrical systems.

1. Repairing a Faulty 2-Speed Fan Motor: Step-by-step guide to common repairs.

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1. Energy Efficiency Considerations for 2-Speed Fans: This examines the energy efficiency of different 2-speed fan designs and motor types.

1. Comparing Different Speed Control Methods for Fans: A comparative analysis of various fan speed control techniques.

2 speed fan wiring diagram: The Colorado-Big Thompson Project United States. Bureau of Reclamation, 1957

2 speed fan wiring diagram: The Colorado-Big Thompson Project, Constructed 1938-56: Power and pumping plants United States. Bureau of Reclamation, 1957

2 speed fan wiring diagram: Colorado-Big Thompson Project, Constructed 1938-56, Technical Record of Design and Construction. Denver, Colorado, April 1957 United States Reclamation Bureau, 1957

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2 speed fan wiring diagram: Technical Manual United States Department of the Army, 1956

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2 speed fan wiring diagram: Operation and Maintenance Instructions with Illustrated Parts Breakdown , 1991

2 speed fan wiring diagram: BTU Buddy Notebook Bill Johnson, 2008-07-22 The BTU Buddy Notebook is a collection of more than 50 unique service call scenarios conducted by an HVAC technician which describe real-life service scenarios related to troubleshooting. Many high quality images help to illustrate troubleshooting techniques and the equipment being serviced. Important Notice: Media content referenced within the product description or the product text may not be

available in the ebook version.

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2 speed fan wiring diagram: Popular Mechanics Complete Car Care Manual Popular Mechanics, 2008 Vehicle maintenance.

2 speed fan wiring diagram: Instrument Engineers' Handbook, Volume Two Bela G.

Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available. Retaining the format that made the previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life applications. Expanded coverage includes descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions and innovations in control valves, and a full chapter devoted to safety. With more than 2000 graphs, figures, and tables, this all-inclusive encyclopedic volume replaces an entire library with one authoritative reference. The fourth edition brings the content of the previous editions completely up to date, incorporates the developments of the last decade, and broadens the horizons of the work from an American to a global perspective. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

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HVAC/R Robert Chatenever, 2000 This book provides HVAC/R service technicians with exceptionally practical information on the unique wiring diagrams, methods, technician short-cuts, and potential pitfalls encountered on the job. It begins with a discussion of general electricity and electrical circuits, and then moves quickly into explaining wiring diagrams for HVAC and refrigeration systems, and the new devices that are encountered with each new diagram. It features accessible, technician-level explanations of electronics. Electrical Concepts. Simple Currents. Standing Pilot Furnaces. Heating/Air Conditioning Circuits. Troubleshooting Strategies. Testing and Replacing Common Devices. Repair Strategies. Commercial Systems. Motor Applications. Power Wiring. Testing and Replacing Motors and Start Relays. How Motors Work. Low-Voltage Room Thermostats. Electronic Ignition Gas-Fired Furnaces. Oil Heat. Electric Heat. Boilers. Heat Pump. Ice Makers. Miscellaneous Devices and Accessories. Wiring Techniques. DDC Controllers. For HVAC/R service technicians.

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2 speed fan wiring diagram: Forest Products Journal , 1984

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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 ...

ARH-1, ARH-2, ARH-3 - argocontrols.com

for 2 Speed Fan (Remove Jumper) (G1/G2) Note: Zone 1 R & C terminals must be connected and energized for board to function. 8 ... Wiring Diagram for Adding ARH-1 TO ARH-2 OR ARH-3. ...

FORCE FAN WIRING - THREE PHASE - jdmfg.com

IS345-24I J&D Manufacturing • 6200 Hwy 12 • Eau Claire, WI 54701 • 1-800-998-2398 •
www.jdmfg.com Page 2/13 Wiring Single Force Fan To Ventilation Control:

FAN COIL CONTROLS - Krueger-HVAC

Mar 30, 2016 · Figure 2 – Reference Wiring Diagram. 5 FRBii IOM FRBii INPUTS AND OUTPUTS
TB1 – LOW VOLTAGE PERIPHERAL DEVICES TABLE F.1 – SCREW ...

Hunter Fan Company

the ceiling fan's speed setting after your speed control is installed, as damage to your ceiling fan or Hunter control may result. 2. Verify proper operation of the ceiling fan wall switch ...

ACF001MKA1 2 SPEED FAN CONTROL KIT - Todd's IT

2 SPEED FAN CONTROL KIT BEFORE STARTING INSTALLATION, DISCONNECT ALL POWER TO THE UNIT. Electrical shock hazard. Turn OFF electric power at fuse box or ...

Installation, Setup, & Instructions Variable Frequency Drive ...

2-Speed Fan Motor (at high speed) 2-Speed Fan Motor (at low speed) FHS072 1800 2030 1338
FHS090 2250 2535 1673 FHS120 3000 3380 2231 FHS180 4500 4500 2970 FHS240 6000 ...

Holley Sniper EFI FUEL INJECTION INSTALLATION MANUAL

Dec 1, 2022 · 108-84-2 108-99 7 1 3.5" Touch Screen Controller 553-115 Includes harness to connect directly to CAN connector 8 Output Harness 1 558-491 Shutdown, Electric Mates to ...

Blower Installation Instructions - Hearth & Home Technologies

Connect the wiring according to the wiring diagram. Fig-ure 13 2. Plug in power cord to junction box. Figure 14 Install the Thermal Sensor- BUF36, BUF36-R, BUF42 & BUF 42-R (Natural ...

INSTALLATION INSTRUCTIONS HIGH OUTPUT 2 SPEED RAD...

HIGH OUTPUT 2 SPEED RAD FAN PART # 16913 & 16917 KIT CONTENTS QTY. DESCRIPTION 1 High Output RAD Fan 4 Rubber Isolators 4 Foam Pads QTY. ...

69-1341EF/m04 - H8908A/B Humidistat; H8908C/D ...

Wiring H8908 with 2-speed fan motor. Fig. 14. Typical wiring diagram of current sensing relay with humidifier. M24734 M24801 H8908 1 1 2 ... Typical wiring diagram for HR150, HR200, ER150 ...

Wiring Diagrams - Carrier

Wiring Diagrams INDEX UNIT 50BYN V-PH-Hz LABEL DIAGRAM FIG. NUMBER 006 008 208/230-3-60 460-3-60 11720011-C 1 575-3-60 012 208/230-3-60 014 460-3-60 11720960-B ...

Hunter Fan Company

Ratings: 120 VAC, 2 A, 60 Hz 3-Speed Rotary Control Model 22691 Read and save these instructions. Caution: Risk of Electrical Shock! All wiring must be performed in accordance with ...

INSTALLATION INSTRUCTIONS HIGH OUTPUT DUAL RAD ...

Diagram #5 MOUNTING 1. Install the Rubber Fan Shroud Seal. (See Diagram #4) 2. Position the electric fan in the desired location. Taking the Angle Brackets supplied determine the best ...

TECHNICAL INFORMATION TI Unit Fan 02 EN Rev00 ...

The fan speed is controlled by an FSY-41S fan speed controller. Refrigeration unit Nr. of fans Fan blade diameter Fan speed Maximum current @ 100 % ... Figure 1: Fan wiring diagram - ZX ...

COOLING 2. Radiator Fan System - Subaru Forester Owners ...

1. Radiator Fan System A: WIRING DIAGRAM CO-00290 E E B72 F16 F2 F17 F27 F2 F27 F27 B100 IGNITION SWITCH ENGINE CONTROL MODULE BATTERY ... fans rotate at low ...

CEILING FAN MANUAL - Beacon Lighting

ELECTRICAL WIRING DIAGRAM INSTALLING THE FAN . 8 Fig. 9 Rotary switch and controller capacitor wiring diagram. Fig. 10 Secure the canopy with screws . 9 ... SWITCH POSITION ...

Wiring Diagrams - Carrier

Wiring Diagrams INDEX UNIT 9AB DRAWING TYPE DRAWING NUMBER FIG. NO. 4,6 Label Diagram 9AB6 - 10816 1 8,12 Label Diagram 9AB12 - 10816 2 ACCESSORIES ...

Installation Instruction Two-Speed Fan KFATS01012SP Relay ...

Fig. 3—Two-Speed Fan Relay Wiring Diagram Fig. 4—Two-Speed Fan Relay with Time Delay-Off Relay and Latent Capacity Control Kits Wiring Diagram A90157 A90159 W2 E L O G C Y R ...

REB Instruction Booklet REV8 - Just Fans

WIRING DIAGRAMS FOR ELECTRONIC SPEED CONTROLLERS (SINGLE PHASE 230V ~ 50Hz) L - Supply Live 230V 50Hz N - Supply Neutral U1 - Motor Control Variable Neutral U2 ...

Advanced Installation and Configuration Instructions - Carrier

Fan Coil Unit (FCU) wiring on the ecobee: A221100 2-pipe system 4-pipe system PTAC system •RC & C: thermostat power •RC & C: thermostat power •RC & C: thermostat power •Y1: fan ...

Installation Instructions for Hunter Original Ceiling Fans

Jun 3, 2002 · 2. To avoid possible electrical shock, be certain electricity is shut off at main panel before wiring. Always turn power off at main panel before servicing your fan or installing ...

OWNER'S GUIDE - QuietCool Systems

Set the dip switch positions inside the Hub as shown in the diagram below. 8. Power-on the Hub. The Power LED indicator will be lit. ... Two Speed Wiring (for ES-2250 and STL PRO-2.5) (see ...

Model IFFT, IFFTe, TJFU, IFAB & IFEB - Soler & Palau USA

tjfu/iff & 6002/6002-14b gas detector - 2-speed dahlander winding motor auto switch alarm 1 - low speed no alarm - off alarm 2 - high speed motor 3 ph 6000b gas detector notes: 1. no = ...

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

MULTI-- SPEED CONTROLLER INSTALLATION AND ...

1. Check wiring 2. Verify power supply Fan will not run 1. 1. Verify system wiring 2. 2. Check supply voltage 3. 3. Verify output voltage between terminals P5 and P6. 4. Check disconnect ...

Fan Centers R8239A-H Relays; AT72H,J Transformers; Q633A ...

Wiring Diagram R8239A AT72H/R8222B 3/4 SPDT — ... R8239E typical hookup with 2-speed fan and limit controller in heating-cooling system. On Q633A1007 Plate-mounted Relay ...

Detail A Adjustm Scres - Greenheck-USA

Wiring diagrams are shown for motor packs and dampers installed with power ventilator fan equipment with single speed motor. The damper will open when the fan is on and close when ...

709031-0 Systems Field Wiring Instructions ii - Nortek HVAC

left of the contactor. See Figure 2. Control Wiring Field-installed control wiring to the outdoor unit consists of: • a 3-conductor shielded cable dedicated for iQ system communication • 2 wires ...

WIRING DIAGRAM W - enora.nordyne.com

WIRING DIAGRAM Optional 4-Speed ! W BloA weR r NI G Sw i tc hru b eak s o" f" ... IFR = Fan Relay IFM = Fan Motor Cont = Contactor LS = Limit Switch Legend: = Fan Plug Grey Black ...

Single Pole / 3-Way Quiet Fan-Speed Controls Install (0301990)

Fan doesn't run at full speed. • Verify that fan is set to highest speed. See Step 1. Troubleshooting Models 120 V~ 60 Hz 1.5 A 120 V~ 60 Hz 2 A AYFSQ-F DVWFSQ-F DVFSQ ...

INSTALLATION INSTRUCTIONS FOR THE - The Unico System

used with the 2-speed MP motors, the ventilation speed has the further benefit of low operating cost as it uses only 1/4th of full-speed power. This is nearly the same as a DC motor without ...

QUIET FAN SPEED CONTROL - Leviton

3 2 1 4 Fan Speed Control Green Ground Black Red Red Hot (Black) Neutral (White) Line 120VAC, 60Hz Fan Speed Control Cap with Wire Connector Connect wires per WIRING ...

27182 slider - Hunter Fan

1. Use the wire nuts supplied to make the ceiling fan and fan light kit connections as shown in the Wiring Diagram. If a ground wire is provided in your electrical box, attach it to the ground ...

Electronically Commutated Motor Wiring Manual - .NET ...

Wiring Manual R: 0 G: 105 B: 62 #00693e GREEN SPECS R: 0 G: 0 B: 0 #000000 BLACK SPECS ... VOLTAGE SIGNAL input which will operate the motor at the default continuous fan ...

ZB80 n ZB110 READ AND SAVE THESE INSTRUCTIONS X2

2 New Construction Installation 5 Connect Wires and Install Knockout Plate • Run 120VAC electrical wiring to the installation location. • Use proper UL-approved connectors to secure ...

FDI 9806 for pdfs (Page 2) - HVAC School

shaded-pole and PSC motors. Multi-speed split phase motors are commonly built using separate windings to provide other speeds. This assures the speed sensitive start switch will operate ...

FAN FILTER UNIT - Price Industries

** refer to drawing 266010 for led kit wiring diagram yellow led indicator light is created by simultaneous signals to green and red led. notes: 2-10 vdc = minimum to maximum airflow no ...

R8239A,B and D Fan Centers and Q633A Plate-Mounted ...

R8239A,B AND D FAN CENTERS AND Q633A PLATE-MOUNTED RECEPTACLE 3 60-0229—09 Fig. 4. Internal schematic and typical hookup for R8239B with two-speed fan in ...

Manually Operated Electronic Speed Controller Single Phase

WIRING DIAGRAM 1 WIRING DIAGRAM 2 WIRING DIAGRAM 3 WIRING DIAGRAM 4a. 6 WIRING DIAGRAM 6 - WIRING DIAGRAM 7a IMPORTANT NOTE FAN MOTOR HAS AN ...

Please read and save these instructions. Read carefully before ...

1. Install any auxiliary components. 3. Connect power to the motor, using an approved wiring method. Figure 2 - Wiring Diagram: 115 Volt Connection Fan frame and motor must be ...

TM AC Read and Save these Instructions - Hunter Fan

installation. Do not use the pull-chain to change the fan speed after installation, as damage to your ceiling fan or All-Fan™ control may result. The speed of the fan should only be changed ...

ACNF Series - Goodman MFG

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date

wiring. ⚠ Warning High Voltage: Disconnect all power before servicing or installing this unit. ...

Wire Harness Installation Instructions - Painless Performance

26 heater, a/c wiring 28 cooling fan switch 30 headlight switch 30 dimmer switch 30 accessory relay 32 tail section 33 testing the system 34 fuse requirements & wire index ... 24 figure 21 2 ...

FAN DRIVE INSTALLATION, OPERATION AND MAINTENANCE ...

Protect the radiator from possible damage from the fan during fan removal and fan drive installation. 2. If applicable, remove the existing fan, fan drive, mounting hardware and belts. ...

30117 - Painless Performance

1. Route the 2 groups of 12 gauge wires labeled "Fan #1/Low" and "Fan #2/High" from the relay to the electric fan motors. The red wires connect to the power side of the fans, and the black ...

OWNER'S GUIDE - QuietCool Systems

Aug 31, 2020 · 6 1-888-QUIETCOOL A. ADJUSTABLE HANGING STRAPS - Keyhole straps that allow you to adjust up or down without removing the screw so the fan can be hung in nearly ...

DUAL ELECTRIC FAN ACTIVATION WITH AC TRINARY SWITCH ...

A/C trinary switch. Fan 2 is activated by the manual override switch only. NOTE: Typical ground trigger trinary switch connection shown DUAL ELECTRIC FAN ACTIVATION WITH AC ...

77886 - Westinghouse Lighting

Diagram 1 Diagram 2 Diagram 3 LOW HIGH ON HOW TO OPERATE YOUR WALL CONTROL: OFF

1. Turn the wall control "ON" using the push button on Westinghouse Jax Fan Wall ...

DELTA T EC FAN CONTROL INSTALLATION, OPERATION

adjusts fan speed. As the delta-T increases, the fan speed increases. Here is a list of the default delta T values and associated speed setting: 0 degrees F = Speed 4 2 degrees F = Speed 4 4 ...

INSTALLATION INSTRUCTIONS HIGH OUTPUT 2 SPEED RAD ...

HIGH OUTPUT 2 SPEED RAD FAN ASSEMBLY PART # 16816,16818,16819,16821,16822,16823 & 16828 KIT CONTENTS QTY. DESCRIPTION ...

2 Speed Fan Wiring Diagram

2 Speed Fan Wiring Diagram

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