

BD Vacutainer® Venous Blood Collection Tube Guide

For the full array of BD Vacutainer® Blood Collection Tubes, visit www.bd.com/vacutainer.

Many are available in a variety of sizes and draw volumes (for pediatric applications). Refer to our website for full descriptions.



Helping all people live healthy lives

BD Vacutainer® Tubes with BD Hemogard® Closure	BD Vacutainer® Tubes with Conventional Stopper	Additive	Inversions at Blood Collection*	Laboratory Use	Your Lab's Draw Volume/Remarks
		▪ Clot activator and gel for serum separation	5	For serum determinations in chemistry. May be used for routine blood draws, coagulation and diagnostic testing of serum for infectious disease. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.	
		▪ Lithium-heparin and gel for plasma separation	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulants (heparin) with blood to prevent clotting.	
		▪ Silicone-coated glass ▪ Clot activator, silicone-coated plastic	5	For serum determinations in chemistry. May be used for routine blood draws, coagulation and diagnostic testing of serum for infectious disease. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 450 minutes.	
		▪ Thrombin-based clot activator with gel for serum separation	5 to 6	For clot serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
		▪ Thrombin-based clot activator	8	For clot serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
		▪ Clot activator (plastic serum) ▪ K ₂ EDTA (plastic)	8	For trace-element, toxicology and nutritional-chemistry determinations. Special stopper formulation provides low levels of trace elements. Tube inversions ensure mixing of either clot activator or anticoagulant (K ₂ EDTA) with blood.	
		▪ Sodium-heparin ▪ Lithium-heparin	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulants (heparin) with blood to prevent clotting.	
		▪ Potassium-muricate, sodium fluoride ▪ Sodium Fluoride-K2EDTA (K2SA) ▪ Sodium Fluoride (serum tube)	8	For glucose determinations. Chelate and EDTA anticoagulants with give plasma samples. Sodium fluoride is the antidiagnostic agent. Tube inversions ensure proper mixing of additive with blood.	
		▪ K ₂ EDTA (plastic)	8	For lead determinations. This tube is certified to contain less than 10 µg/mg lead. Tube inversions prevent clotting.	
		▪ Sodium poly(methyl sulfone) (SPS) ▪ Acid citrate dextrose (ACD) Solution A - 22.0 g/L trisodium citrate, 8.0 g/L citric acid, 24.5 g/L glucose Solution B - 13.2 g/L trisodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose	8	SPS for blood culture specimen collections in microbiology.	
		▪ Liquid K ₂ EDTA (glass) ▪ Spray-coated K ₂ EDTA (plastic)	8	ACD for use in blood bank studies, HLA, phenotyping, and DNA and paternity testing.	
				Tube inversions ensure mixing of anticoagulants (K ₂ EDTA) with blood to prevent clotting.	
		▪ K ₂ EDTA and gel for plasma separation	8	For use in molecular diagnostic test methods. (Such as, but not limited to, polymerase chain reaction (PCR) analysis, and DNA (micro)amplification analysis). Tube inversions ensure mixing of anticoagulant (K ₂ EDTA) with blood to prevent clotting.	
		▪ Spray-coated K ₂ EDTA (plastic)	8	For whole blood hematology determinations. May be used for routine immunochemistry testing and blood donor screening. Each tube is labeled with patient information required by the AABB. Tube inversions prevent clotting.	
		▪ Buffered sodium citrate 0.105 M (0.2%) glass ▪ Citrate, thiophosphate, adenosine, diphosphate (CTAD)	3-6	For coagulation determinations. CTAD for selected platelet function assays and routine coagulation determination. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
		▪ None (plastic)	10	For use as a discard tube or secondary specimen tube.	

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Franklin Lakes, NJ 07417 USA

BD Global Technical Services: 1-800-631-0174
BD Customer Service: 1-888-237-2762
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AN Whitehead

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galleries of inspiration for finishes Installation New in this edition you can learn how to install a prefab straight run staircase and use epoxy or lay rubber floor tiling to finish cement floors You ll also find updated sections on everything from creating office spaces to media rooms The ground level basement More interested in creating a workshop in your garage Well now you can With this specialty section and newly integrated projects and tips you can learn the best ways to get the garage you ve always wanted Whether you re already underway creating a new addition to your house or looking for a guide to get your creative juices flowing this book is a great fit **Stereophile**, 1995 The Nature Photographer's Complete Guide to Professional Field Techniques John Shaw, 1984 From one of America s most gifted photographers comes this field tested handbook Stunning color photographs and a well written text cover everything photographers need to know **The Simon and Schuster Complete Guide to Home Repair and Maintenance** Bernard Gladstone, 1987-05 Many topics are covered including carpentry plumbing furniture repair and electrical systems *Recommended Reference Books for Small and Medium-Sized Libraries and Media Centers 2000* Bohdan S. Wyna, 2000-04-22 Published with reference work and collection development in mind this text will allow librarians to locate the best works in a given field consult other published reviews and compare price scope and coverage of reference books in a particular subject area *United Services and Empire Review*, 1924 Hi-fi News & Record Review, 1997 **English Mechanic and World of Science**, 1897 *The Complete Guide to Four Season Home Maintenance* David Heberle, Dave Heberle, Richard M. Scutella, 1993 Packed with detailed maintenance tips and procedures to help homeowners minimize costly repairs and replacements this book covers a variety of problems from leaking foundations to furnace breakdowns to backed up septic systems and teaches homeowners how to establish the kind of preventive maintenance routines that will keep most problems from occurring in the first place

Homeowner's Complete Guide to Plumbing Merle Henkenius, 1989 **Bicycling Magazine's Complete Guide to Bicycle Maintenance and Repair** Jim Langley, 1999-06-19 Fix a broken chain with a shoelace Improve shifter performance with dishwashing detergent Inside are thousands of tips to repair and maintain any road or mountain bike Whether it s the latest model or a classic that has thousands of miles on it beginners or experienced riders can keep their bikes on the road longer and spend less time in the repair shop With this ultimate repair manual Build a dream bike workshop with complete plans and comprehensive tool lists Wow ride partners with tricks for fixing breakdowns with a minimum of tools Roll wheel hoops and save time and money Dial in suspension shocks for comfortable rides Discover top tricks from professional mechanics Expertly work on any style of brakes including the V Brake Overhaul freewheels and cassettes for peak performance Service clipless pedals for maximum safety What s new in the expanded and revised fourth edition Updated text that covers the latest models and parts Over 160 new photos so you get repairs right the first time Clearer better designed captions so you can read as you repair Troubleshooting sections to quickly identify and correct common problems Web sites and phone numbers of bicycle and parts manufacturers An updated glossary with the latest in bike lingo **A**

Comprehensive Guide to Intellectual and Developmental Disabilities Ivan Brown,Maire Ede Percy,2007 Learning objectives instructive case stories stimulating questions for reflection and key Internet resources help make this a user friendly textbook one that students will refer to for years to come With this thorough compendium of information insights and answers future educators social workers researchers and clinicians will know what to do and how to do it once they start their work with people with disabilities the editors and the majority of the contributors are the top Canadian specialists in the disability field Ivan Brown Ph D is Associate Professor and Manager Centre for Excellence for Child Welfare Faculty of Social Work at University of Toronto his co editor Maire Percy Ph D is Director Neurogenetics Lab and Professor Emeritus of Physiology and Ob Gyn at University of Toronto **Medical Review of Reviews** ,1903 Index medicus in v 1 30 1895 1924

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Table of Contents Ultimate Guide Tube Recommendations

1. Understanding the eBook Ultimate Guide Tube Recommendations
 - The Rise of Digital Reading Ultimate Guide Tube Recommendations
 - Advantages of eBooks Over Traditional Books
2. Identifying Ultimate Guide Tube Recommendations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ultimate Guide Tube Recommendations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ultimate Guide Tube Recommendations
 - Personalized Recommendations
 - Ultimate Guide Tube Recommendations User Reviews and Ratings
 - Ultimate Guide Tube Recommendations and Bestseller Lists
5. Accessing Ultimate Guide Tube Recommendations Free and Paid eBooks
 - Ultimate Guide Tube Recommendations Public Domain eBooks

- Ultimate Guide Tube Recommendations eBook Subscription Services
 - Ultimate Guide Tube Recommendations Budget-Friendly Options
6. Navigating Ultimate Guide Tube Recommendations eBook Formats
- ePub, PDF, MOBI, and More
 - Ultimate Guide Tube Recommendations Compatibility with Devices
 - Ultimate Guide Tube Recommendations Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Ultimate Guide Tube Recommendations
 - Highlighting and Note-Taking Ultimate Guide Tube Recommendations
 - Interactive Elements Ultimate Guide Tube Recommendations
8. Staying Engaged with Ultimate Guide Tube Recommendations
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ultimate Guide Tube Recommendations
9. Balancing eBooks and Physical Books Ultimate Guide Tube Recommendations
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ultimate Guide Tube Recommendations
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ultimate Guide Tube Recommendations
- Setting Reading Goals Ultimate Guide Tube Recommendations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ultimate Guide Tube Recommendations
- Fact-Checking eBook Content of Ultimate Guide Tube Recommendations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web on micromaster 4 there is only one fault code f0070 for profibus communications failure if the fault is due to failure of communication with the profibus master the led on the profibus module goes orange if it is due to mm to profibus module comes failure it goes red

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web oct 27 2023 if your device has ceased to function correctly then you need to look at the display where you will see micromaster 440 fault codes which we have briefly described below f0001 overcurrent f0002 overvoltage f0003 undervoltage f0004 converter overheating f0005 i2t exceeded f0011 engine overheating by i2t

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f070 fault code 29193 industry support siemens - Jun 22 2022

web 2 days ago hi can any one advise on a problem i have with micromaster 430 the problem is a fault code f070 profibus fault we have replaced the profibus micromaster module and replaced the prifibus plug

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web cb configuration error micromaster 430 operating instructions 6se6400 5ae00 0bp0 page 88 index 2 parameter settings for output do not correspond to dac type no load is applied to the a0922 inverter no load as a result some functions may applied to not work as under normal load inverter conditions

mm430 fault code f0023 70228 industry support siemens - Feb 28 2023

web nov 12 2020 when start a fan motor in 2 3second the frequency shown f0023 and motor stop i have checked the motor cable is ok tried doing quick commissioning still the same no improve tried set the motor identification by setting the p1910 1 still same problem

micromaster 440 siemens - Aug 25 2022

web wherever faults occurring in the control equipment can lead to substantial material damage or even grievous bodily injury i e potentially dangerous faults additional external precautions must be taken or facilities provided to ensure or enforce safe operation even when a fault occurs e g independent

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5 faults and alarms nicontrols - Sep 25 2022

web to reset the fault code one of three methods listed below can be used cycle the power to the drive press the button on the bop or aop via digital input 3 default setting fault messages are stored in parameter r0947 under their code number e g f0003 3 the associated error value is found in parameter r0949

siemens micromaster 430 parameter list inverter drive - Apr 01 2023

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web micromaster 430 documentation getting started guide is for quick commissioning with sdp and bop 2 operating instructions gives information about features of the micromaster 430 installation commissioning control modes system parameter structure troubleshooting specifications and available options of the micromaster