

TECHNICAL - HID LAMP/BALLAST FAULT FINDING CHART



First identify the type of problem, then test for the cause by following the numerical sequence shown. (ie: 1, then 2, etc).

PROBLEM	LAMP TYPE	CIRCUIT TYPE	A	B	C	D	E	F	G	H	I
			End of lamp life	Incorrect type of lamp	New lamp not yet run in properly	Mains supply current capacity	Mains supply voltage dips	Photo-control switching incorrectly	Ballast failed	Capacitor failed	Ignitor failed
Lamps won't start - single luminaires	MV MH	Reactor Reactor CWA	1	5						5	
	HPS	Reactor CWA	1	6						7	
Lamps won't start - groups of luminaires (or brand new installations)	MV MH	Reactor Reactor CWA		1							
	HPS	Reactor CWA		1							
Lamps cycling on and off - single luminaires	MV MH	Reactor Reactor CWA	3								
	HPS	Reactor CWA	1								
Lamps cycling on and off - groups of luminaires	MV MH	Reactor Reactor CWA		1							
	HPS	Reactor CWA		1							
Different lamp colours	MV MH HPS		2 2	1 1	3		4				

A: END OF LAMP LIFE At the end of a lamp's life, the voltage requirements exceed the output ability of the ballast. The usual failure mode for Mercury lamps is low light output, followed by failure to start. For Metal Halide and Sodium, imminent failure causes low or varying light levels, colour shifts, and lamp instability (cycling on and off). It should be understood that in the early stages of failure, the lamp may operate for many hours before cycling "off" - the "on" period steadily decreases until the lamp fails completely. Cycling lamps should be replaced immediately to prevent ballast or ignitor damage.

B: INCORRECT LAMP Lamp's wattage, lamp voltage and current, burning position and type must ALL be compatible with the control equipment used to run it. Problems with lamp starting can also be caused by using a lamp with internal ignitor in a circuit which also has an ignitor, or vice-versa. New (but incorrect) lamps often strike and run OK for many hours, then start to give problems like poor starting, lamp cycling and colour differences.

C: NEW LAMP NOT YET RUN-IN PROPERLY New lamps go through a burn-in period, which may extend for up to 100 hours or more. The usual result is noticeable colour variation between lamps. Metal Halide lamps are noted for this, but the colour will stabilise as the burn-in period ends. It is important to understand that variations to colour will always be noticed between lamps from different manufacturers, and between old and new lamps of the same type.

D: MAINS SUPPLY CURRENT CAPACITY The ability of the mains to supply sufficient current and the correct voltage is critical in HID lighting circuits. When Reactor control gear starts, the current drawn exceeds the normal running current. As CWA gear starts the current drawn slowly increases until the lamps are fully lit. In all cases the mains supply must be capable of meeting the maximum current draw of the particular circuit, whilst providing the correct rated voltage.

E: MAINS SUPPLY VOLTAGE DIPS The usual cause of voltage dips is overloaded circuits, and the starting of large motors and welders. Mild dips usually only cause a lamp colour shift, but severe dips will cause the lamps to extinguish. The voltage dip tolerance of Reactor ballasts is much lower than CWA control gear.

F: PHOTO-CONTROL SWITCHING INCORRECTLY Problems can occur from electrical failure, or from an incorrect amount of light reaching the photocell. First, cover the eye of the cell with electrical tape to verify fixture and cell operation. If the fixture fails to operate, electrically bypass the photocell to identify the problem source. Problems with light reaching the cell can be solved by re-positioning the cell or fixtures, or by using special cell caps to regulate the light.

G: BALLAST FAILED Ballasts are surprisingly rugged devices, and usually a visual check will confirm if the ballast is damaged or not. Repeated failures (often in conjunction with capacitor failures) are usually caused by high amplitude spikes on the mains supply, which can be traced with the use of a scope and the Power Company's assistance. Note: Ballast failure due to overheating, which is caused by not replacing failed lamps immediately, is not covered by the manufacturer's warranty.

H: CAPACITOR FAILED In Reactor circuits the capacitor is used as a power factor correction device, so open circuits will not cause operational faults. In CWA circuits the capacitor is fundamental to operation, and the lamp will not operate with a faulty capacitor. To test a capacitor, substitute a known good unit.

I: IGNITOR FAILED Ignitors are required in Reactor Metal Halide, Reactor Sodium and CWA Sodium circuits to generate the required lamp starting voltages. Ignitors are not required for most CWA Metal Halide circuits. To test an ignitor, substitute a known good unit. It should be noted that the ignitor and lamp must be EXACTLY matched. Ignition voltage varies from 800 to 5000 Volts, and the duration of and number of starting pulses is critical for correct starting. Many older ignitors and systems will not reliably strike the more modern high-tech HID lamps (especially from Europe) which are becoming more widely used, causing unexplained starting problems.

The information contained here is given in good faith, as a guide to assist in determining the most probable cause for problems with HID installations. In some cases there may be other factors involved, or more than one cause, so this guide may not be definitive in finding the actual cause.



Hid Lamp Troubleshooting Guide

**McGraw-Edison Company. Halo
Lighting Division**



Hid Lamp Troubleshooting Guide:

Immerse yourself in the artistry of words with Crafted by is expressive creation, **Hid Lamp Troubleshooting Guide** . This ebook, presented in a PDF format (PDF Size: *), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

https://staging.conocer.cide.edu/results/Resources/index.jsp/guilty_pleasures_personal_and_business_english_edition.pdf

Table of Contents Hid Lamp Troubleshooting Guide

1. Understanding the eBook Hid Lamp Troubleshooting Guide
 - The Rise of Digital Reading Hid Lamp Troubleshooting Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Hid Lamp Troubleshooting Guide
 - 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 Hid Lamp Troubleshooting Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hid Lamp Troubleshooting Guide
 - Personalized Recommendations
 - Hid Lamp Troubleshooting Guide User Reviews and Ratings
 - Hid Lamp Troubleshooting Guide and Bestseller Lists
5. Accessing Hid Lamp Troubleshooting Guide Free and Paid eBooks
 - Hid Lamp Troubleshooting Guide Public Domain eBooks
 - Hid Lamp Troubleshooting Guide eBook Subscription Services
 - Hid Lamp Troubleshooting Guide Budget-Friendly Options

6. Navigating Hid Lamp Troubleshooting Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Hid Lamp Troubleshooting Guide Compatibility with Devices
 - Hid Lamp Troubleshooting Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hid Lamp Troubleshooting Guide
 - Highlighting and Note-Taking Hid Lamp Troubleshooting Guide
 - Interactive Elements Hid Lamp Troubleshooting Guide
8. Staying Engaged with Hid Lamp Troubleshooting Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hid Lamp Troubleshooting Guide
9. Balancing eBooks and Physical Books Hid Lamp Troubleshooting Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hid Lamp Troubleshooting Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hid Lamp Troubleshooting Guide
 - Setting Reading Goals Hid Lamp Troubleshooting Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hid Lamp Troubleshooting Guide
 - Fact-Checking eBook Content of Hid Lamp Troubleshooting Guide
 - 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

Hid Lamp Troubleshooting Guide Introduction

In today's digital age, the availability of Hid Lamp Troubleshooting Guide books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Hid Lamp Troubleshooting Guide books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Hid Lamp Troubleshooting Guide books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Hid Lamp Troubleshooting Guide versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Hid Lamp Troubleshooting Guide books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether you're a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Hid Lamp Troubleshooting Guide books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Hid Lamp Troubleshooting Guide books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free

access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Hid Lamp Troubleshooting Guide books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Hid Lamp Troubleshooting Guide books and manuals for download and embark on your journey of knowledge?

FAQs About Hid Lamp Troubleshooting Guide Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Hid Lamp Troubleshooting Guide is one of the best book in our library for free trial. We provide copy of Hid Lamp Troubleshooting Guide in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Hid Lamp Troubleshooting Guide. Where to download Hid Lamp Troubleshooting Guide online for free? Are you looking for Hid Lamp Troubleshooting Guide PDF? This is definitely going to save you time and cash in something you should think about.

Find Hid Lamp Troubleshooting Guide :

[guilty pleasures personal and business english edition](#)
[guide to unix using linux fourth edition chapter 2 solutions](#)
~~[guided practice problem chemistry 1page 360 answers](#)~~

[guide to vinesweeper](#)

[guided activity 14 3 answers key](#)

[guidelines for writing effective operating maintenance procedures](#)

[guide to zante in greece](#)

[guided reading chapter 19 section 5 china reform and reaction](#)

[guided reading activity 6 answer key](#)

[guided reading and practice 10 1 answer key](#)

[guitar tab notebook 6 string guitar tab with treble clef stave](#)

[guided reading activity 12 2](#)

[guitar chords and lyrics for catholic hymns](#)

[guided reading chapter 23](#)

[guidelines for writing a good ev](#)

Hid Lamp Troubleshooting Guide :

HEALTH PSYCHOLOGY; TENTH EDITION by SE Taylor · Cited by 4895 — Her research interests concern the psychological and social factors that promote or compromise mental and physical health across the life span. Professor Taylor. Health Psychology: 8 Edition Shelley E. Taylor | PDF The Biopsychosocial Model in Health Psychology (cont). Clinical implications: - diagnosis should always consider biological, psychological and social factors in ... Health Psychology 8th edition Shelley E. Taylor Health Psychology Health Psychology: - exciting and relatively new field devoted to understanding psychological influences on how people stay healthy, ... Health Psychology: Shelley E. Taylor | PDF Health Psychology - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Health Psychology. Health Psychology by Taylor, Shelley The eighth edition of Health Psychology highlights health issues that face the college student and his or her family through both accessible research ... Shelley Taylor Health Psychology 8th test bank by ji8uy Jul 27, 2020 — Download pdf Health Psychology 8th edition by Shelley Taylor test bank Full link: <https://bit.ly/30Id820>. Health Psychology 11th Edition Taylor TEST BANK Test Bank for Health Psychology, 11th Edition, Shelley Taylor, ISBN10: 1260253902, ISBN13: 9781260253900... HEALTH PSYCHOLOGY, NINTH EDITION SHELLEY E. TAYLOR is Distinguished Professor of Psychology at the University of California, Los Angeles. ... free from pain, disability, and lifestyle compromise ... Health Psychology, 8Th Edition: Shelley E. Taylor This book is excellently written. Health psychology is one of the more medically related sectors of psychology, and for many psychology students this might ... Health psychology | WorldCat.org "The eighth edition of Health Psychology highlights health issues that face the college student and his or her family through both accessible research ... 2001

Mitsubishi Eclipse Engine Diagram 2001 Mitsubishi Eclipse Engine Diagram transmission wiring diagram 3 wiring diagram rh uisalumnisage org wiring diagram 2006 nissan x trail ... 2001 Mitsubishi Eclipse Service Repair Manual Mar 20, 2021 — MAINTENANCE, REPAIR AND SERVICING EXPLANATIONS This manual provides explanations, etc. concerning procedures for the inspection, maintenance, ... need wiring diagram for 2001 mitsubishi eclipse gt thank Mar 19, 2009 — Sorry, my schematic doesnt cover the transmission wiring. I will opt out so that another expert can get the diagrams for you. Automatic Transmission for 2001 Mitsubishi Eclipse Endeavor. From 4/3/99. Diamante. Internal. Galant. 3.8l. MSRP \$49.52. \$37.14. Resolved > Wire Diagrams? 2.4 3G Eclipse Spider Feb 6, 2022 — Hi guys looking for a Wire diagram for a 2002 2.4L Eclipse Spider with the Automatic Transmission. ... 3G Mitsubishi eclipse GT to GTS engine swap. Mitsubishi Eclipse - Transmission rebuild manuals Here you can download Mitsubishi Eclipse automatic transmission rebuild manuals, schemes, diagrams, fluid type and capacity information. 2000-2002 Eclipse Service Manual Need a diagram of the correct installment for spark plugs and the correct order wiring to the distributor on a 2002 Mitsubishi eclipse 3.0L v6 please help?!! Engine & Trans Mounting for 2001 Mitsubishi Eclipse 3.0L. Eclipse. Manual trans. Galant. Front. MSRP \$43.03. \$32.27. Add to Cart. MSRP \$43.03. What are the shift solenoids on a 2001 Mitsubishi eclipse? Apr 10, 2011 — i need a diagram of the shift solenoids on a 2001 mitsubishi eclipse so i can tell which ones are c and d. i have the parts, and the pan is ... IPT Crane and Rigging Answer Book Flashcards Study with Quizlet and memorize flashcards containing terms like Two types of wire rope center core designs, What is the percentage gain in strength using ... Ironworker Quality Construction Practices, Reference ... Rigging for Ironworkers: Ironworker Quality Construction Practices, Reference Manual & Student Workbook by International Association Of Bridge, Structural, ... Basic Rigging Workbook - BNL | Training | Login The purpose of this document is to discuss the requirements for planning and performing an incidental lift using an overhead crane and commonly available. rigging basic - learner workbook May 21, 2021 — Should a rigger work on structural steel that is wet from rain or fresh paint? ... The answers in this book are in no way conclusive and are to ... Advanced Rigging Instructor's Manual Student answers are automatically collected in detailed reports to ensure ... Student Workbook for comparison. 139. Page 144. 5. SECTION 5: RIGGING FORCES AND ... MODULE 4 - LIFTING AND RIGGING □ Understand the proper use of wire ropes, wire rope fittings, end terminations, and tighteners. □ Explain the use of slings and sling arrangements. □ ... Answers 3 See Student Book answer to Question 5. (above) although there are no ... b iron: malleable and magnetic (other answers are possible). 8 a both are metals as ... Ironworkers : Occupational Outlook Handbook Align structural and reinforcing iron and steel vertically and horizontally, using tag lines, plumb bobs, lasers, and levels; Connect iron and steel with bolts, ... Rigger Level I and Rigger Level II A Certified Rigger Level I can perform simple, repetitive rigging tasks when the load weight, center of gravity, the rigging, and rigging configuration are ... Hoisting & Rigging Fundamentals The material outlined in this manual outlines the requirements of the DOE Hoisting and. Rigging program. It requires persons who perform rigging or

operate ...