TECHNICAL - HID LAMP/BALLAST FAULT FINDING CHART



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

·			A.		C	D	E.	F	0	H	
PROBLEM	EAMP TYPE	CIRCUIT	End of Samp life	Incorrect type of lamp	New lomp not yet run in properly	Masins supply current capacity	Maxima supply voltage digs	Photo- control switching incorrectly	Braffigur Fortland	Copocitor failed	Sgmittor Bailed
Longs won't start single luminoire	MW MH HPS	Reactor Reactor CWA Reactor CWA	1 1 3 1	5 4 4		NONNA		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 6 7 6	5 7	5 6 5 5
Lamps won't start groups of luminatives (or Brand New Installation)	MV MH HPS	Reactor CWA Reactor CWA		1		SPARA		3 3 3 3 2			
Lamps cycling on and all single luminosine	MV MH HPS	Reactor Reactor CVAA Reactor CVAA	1 1	nnnn		3	3	2 4 4 4			
lamps cycling on and off groups of luminaire	MV MH HPS	Reactor Reactor CWA Reactor CWA		i		- P.	2 2 2 3 3 3	3 3 4 3 4			
Different lamp colours	MW MH HPS		3	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 interval ignitor in a c incut which also has an ignitor, or vica-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 BUN-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 oid 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 gean starts, the current drawn exceeds the normal running current. As CIMA goar starts the current drawn slowly increases until the lamps are fully lit. In all cases the mains supply must be capable of meeting the mains upply must be capable of meeting the mains are fully lit.

E: MAINS SUPPLY YOUTAGE 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 ordinate additional tape to verify finture and cell operation. If the fixture fails to operate, electrically byposs 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: Ballants are surprisingly sugged devices, and usually a visual check will confirm if the ballant 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 Conjuncts assistance. Note: Ballant 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.

It 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.

<u>Hid Lamp Troubleshooting Guide</u>

Ron Gilster, Helen Heneveld

Hid Lamp Troubleshooting Guide:

The Electrician's Troubleshooting and Testing Pocket Guide John E. Traister, H. Brooke Stauffer, 2000 Whether you re an electrician or a consulting or plant engineer if you use portable meters to test maintain and troubleshoot electrical equipment and systems this quick look up pocket sized resource delivers key information where you need it most on the job

Roadway Lighting Handbook United States. Federal Highway Administration. Office of Traffic Operations, 1978 Complete Guide to the Language of Lighting McGraw-Edison Company. Halo Lighting Division, 1983 **Lighting Design &** Application ,1975 Standard Handbook of Plant Engineering Robert C. Rosaler, 1995 Here is the best single guide to efficient cost effective plant engineering from construction to internal operation maintenance and management of the plant facility With contributions from more than 70 well known leaders in their specialties this new edition of Standard Handbook of Plant Engineering offers you state of the art information on the basic plant facility plant operation equipment repair and replacement methods and much more Packed with tables formulas charts graphs and checklists the Second Edition now features greater emphasis on practical hands on information in the areas of maintenance cost control maintenance management and staff training more than 40% new material with all sections revised and updated and software listed for most topics a Board of Advisors specifically chosen to select new and expanded coverage and both metric and S I units for ease of use in domestic and international markets Covering virtually every aspect of modern plant engineering the new edition of this definitive handbook will give you the expertise required to keep manufacturing and service facilities operating Popular Mechanics Do-it-yourself Encyclopedia: Drill presses to energy savings guide, 1986 at peak productivity

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