



# RECTIFIER MAINTENANCE AND TROUBLE SHOOTING

## **TESTING SILICON DIODES AND STACKS**

- 1. THE WORTH OF A SILICON DIODE CANNOT BE DETERMINED WITH A VISUAL CHECK. EACH DIODE MUST BE TESTED INDIVIDUALLY. THE DIODES MUST BE ISOLATED FROM THE TRANSFORMER AND CP SYSTEM!**
- 2. TO ISOLATE THE DIODES, ONE LINK BAR AND ONE DC CABLE MUST BE REMOVED. DIODES CAN BE CHECKED IN THE RECTIFIER ONCE ISOLATED PER FIG. 5-10 (PRECEEDING SLIDE).**
- 3. AN ANALOG METER OR DIGITAL METER CAN BE USED TO CHECK DIODES. AN ANALOG METER MUST BE IN THE RESISTANCE RANGE, THE DIGITAL METER MUST BE IN THE DIODE CHECK MODE. (INDICATED BY THE TECHNICAL SYMBOL OF A DIODE)**
- 4. THE RECTIFIER MUST BE TURNED OFF TO TEST DIODES.**
- 5. TWO READINGS ARE REQUIRED FOR EACH DIODE (FORWARD AND REVERSE READINGS)**
- 6. THERE ARE FOUR DIODES IN A SINGLE PHASE UNIT, SIX DIODES IN A THREE PHASE UNIT.**

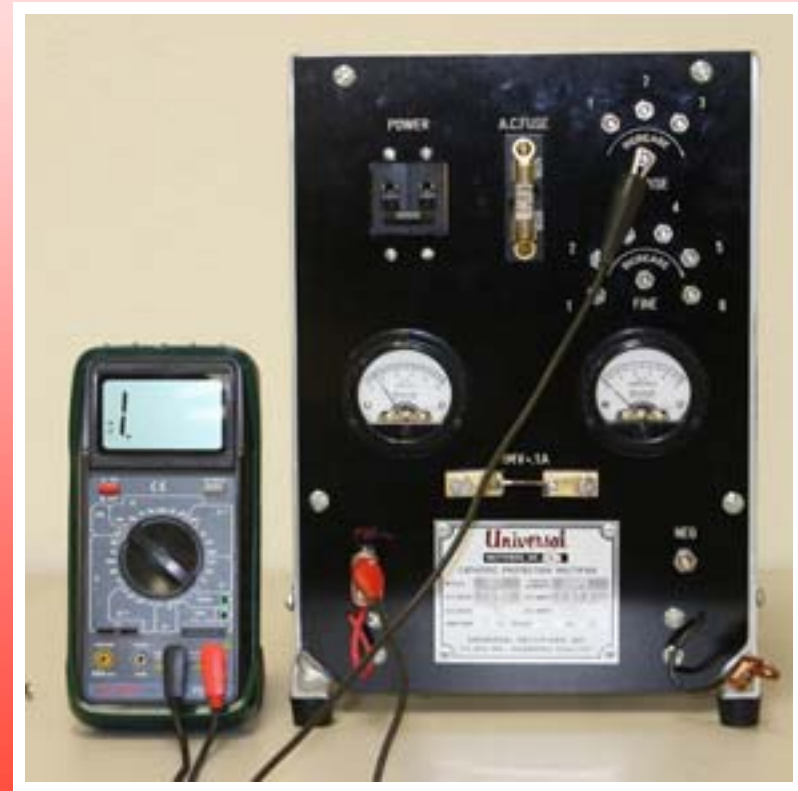
## CHECKING DIODES FROM THE FRONT OF THE RECTIFIER



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