

# 1111CA and 1112CA RECTIFIER INSTALLATION INSTRUCTIONS



LEECE-NEVILLE®

A Prestolite Electric Product

## GENERAL NOTES

**Remote Mounted** — Designed to be mounted away from engine compartment for easier installation and for extended diode life due to lower ambient temperatures.

**Cooling** — Convection cooled design eliminates the need for cooling by forced air.

**Capacity** — The 1111CA is designed to reliably handle loads up to 200 amps at 14 volts. The 1112CA reliably handles up to 250 amps at 14 volts.

**Interchangeable** — The 1111CA may be used to replace Leece-Neville selenium dry plate rectifiers #1080CA, #1081CA, #1084CA and #1085CA in older applications. A different mounting may be necessary for the 1111CA rectifier because of its larger size. See mounting instructions below and wiring diagrams for connections and Table 1 for recommended wire sizes. For higher current applications, the 1112CA mounts interchangeably with the 1111CA.

**New Applications** — The rectifiers are designed for use in emergency rescue vehicles, ambulances and other commercial vehicles with heavy electrical loads. Use 1111CA for loads up to 200 amps. Use 1112CA for loads up to 250 amps.

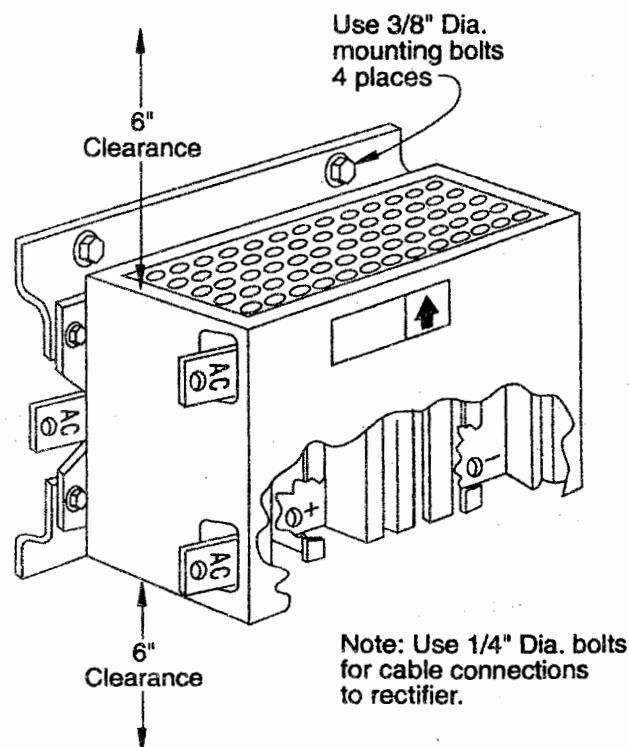
See mounting instructions below and wiring diagrams for connections and Table I for recommended wire sizes for 14 volt alternators that have field current requirements under 5 amps.

## Mounting Instructions

1. Rectifier should be mounted in a clean and cool area (100°F. maximum ambient temperature) that allows unrestricted convection air circulation. If mounted in driver's cab, 6" clearance above and below the rectifier will provide adequate cooling. If mounted in a small, closed compartment, air vents or louvers are required to let air in and out. Engine compartment mountings are not recommended.
2. Rectifier must be mounted on a vertical, flat surface with open side down (or grill side up) as shown, to provide adequate air flow through rectifier heat sinks.

**CAUTION:** Be sure mounting surface is flat enough to provide clearance with lower AC collector strap and heads of bolts. Use a reinforcing plate behind mounting surface if mounting on thin sheet metal.

3. Secure all rectifier leads with harness clamps as close to rectifier as practical to prevent vibration problems.



Torque Diode to 15 lb.-in. max.

Solder

Relay #3 terminal

Regulator "POS" terminal

Rectifier positive output terminal

12 Volt Systems	Total Circuit Lengths: 1. Load Circuit—All "A" leads 2. AC Circuit—One "B" lead 3. Field Circuit—All "C" leads	Recommended Minimum Wire Size		
		A	B	C
60-75 Amps	16 Feet or less	#6	#8	#16
	16-25 Feet	#4	#6	#14
	25-40 Feet	#2	#4	#12
80-125 Amps	16 Feet or less	#4	#6	#16
	16-25 Feet	#2	#4	#14
	25-40 Feet	#0	#2	#12
130-250 Amps	16 Feet or less	#2	#4	#16
	16-25 Feet	#0	#2	#14
	25-40 Feet	#00	#0	#12

Form 4396A