

257477BA Battery Adapter ver. 7.2



Background

A number of military radios were designed to use the BA-4386/PRC-25 battery or an equivalent. The BA-4386 is now obsolete. Any radio that uses the CY-2562 can use this adapter. Some other radios also can use it, see below.

Capacity

Ten common "D" cells are used in electrical series. They can be any chemistry the end user desires that provide 1.2 to 1.5 Volts per cell.

The 3 volt tap has a current limiting resistor to protect the filament in the PRC-25 radio. All 10 cells provide the 12 V or 15 Volt output.

Possible Configurations:

#	Chemistry	Amp Hours	Volts	Watt Hours
E95	Alkaline	8.35	15	125
GP700DH	NMH	7.0	12	84
C5000D	NiCad	5.0	12	60

Construction

Thick fiberglass end plates hold 10 "D" cells and the socket. Fast and easy cell replacement without using any tools.

Dimensions

Length: 9 1/4" (235 mm)
Width: 3 1/8" (80 mm)
Height: 2 3/8" (61 mm)*

* Note: The CY-2562 Battery box has foam strips to hold the BA-4386 battery. The 257477BA Ver 7.2 Battery Adapter uses the space between these strips and so is higher than a BA-4386. This is why the 257477BA will not fit all BA-4386 applications. It does fit all applications that use the CY-2562 battery box.

Note: If the Battery Adapter is made to be within the outline of a BA-4386: 9.4375" long, 3.5" wide, and 2.0625 high (per MIL-B-55252/1, then 10 "D" cells will not fit, only "C" cells can be used. Associated Industries used to make their 2577BA adapter as a plastic box 3.562" wide that held 10 "D" cells. It does not have the 3 Volt tap so can not be used with the PRC-25.

The plastic us used as an electrical insulator so converting this design into metal would be very expensive.

Applicability

Operational with the following:

- PRC-25
- PRC-74 only with the CY-6314 battery box
- PRC-77
- PSN-6 Loran-C receiver
- TS-2963/USQ-46 (the 80718-3 1A3 battery box will only go on one way) so the USQ-42 and USQ-46 should also work
- PRC-124 = PRC-1088 should work because it uses the same battery box.
- PRC-1077 reported to work fine.
- PRC-1099 uses the CY-2562 so will work
- RT-1185/GRA-114 Receiver-Transmitter uses the CY-2562 so works.

Will NOT work with the following:

- PRC-74 with the CY-6314A/PRC-74 battery box, KY-38, KY-57

Do not know about:

KY-65, PPS-115, PPS-115A, PRD-10, PRD-12, URR-69, USA-32, URC-100 series radios

Batteries Not Included

Only the adapter is supplied. The user can determine which cell chemistry, brand and model makes sense for their use.

Reorder

<http://www.PRC68.com>