

Re: Sanyo battery pack

Source: <http://sci.tech--archive.net/Archive/sci.electronics.repair/2005-09/msg01496.html>

- *From:* "Dave D" <dave_d@xxxxxxxxxxx>
 - *Date:* Sun, 25 Sep 2005 13:22:46 +0100
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"Pompey ©" <darynleedelete@xxxxxxxxxxxxxxxxxxx> wrote in message
[news:hmvZe.115294\\$G8.40629@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:hmvZe.115294$G8.40629@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

> Hi
> Need to replace a rechargeable battery pack from a 18 year old radio
> scanner(Black panther/challenger bj200).. the label on the batteries says
> sanyo but cant see any part number.. its a row of 5 AA size looking
> batteries sealed in plastic with a red and black wire exiting.. the
> charger is for 6V .anyone any ideas for a replacement?
>
> Thankyou Daryn Lee
>

You don't give any clues about your electronics/soldering skills, so I'll assume they are limited.

You can probably replace them with nice new 2500mAH NiMH cells, which should give around 5 times the running time of your old cells. Old NiCad AA cells are usually somewhere between 450-650mAH, probably most commonly 500mAH.

However, you will run into a problem. The new cells will require 5 times the charging current over the same charge time, or the same charging current as your old ones for 5 times as long.

Increasing the charging current 5 times is probably a non starter with the same charger, and if the charger is a 14 hr type, well, increasing the charging time is a non starter as well!

You can get AA cell holders which are so compact they use little more space than custom assembled packs, so you **might** be able to use that approach. If the batteries are easy to access you could pop them out of the holder and charge them in a conventional charger, which would solve the problem of the old charger not being up to scratch.

An easy substitute for your old cells might be using AAA cells instead, which nowadays are sold in capacities from around 700mAH to 950mAH, not too far away from what you probably have. Fitting these will mean they are basically a drop in replacement, aside from the physical fit. You won't get the full capacity out of them without a modification to the charger, but

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there's a good chance the charger will easily handle alteration so it charges at 70–95mAH instead of 50–60mAH, as it is probably capable of quite a lot more than that.

The upside of using AAA cells, apart from the fact that it wouldn't be necessary to mod the charger unless you really wanted the extra capacity, is that these cells, even fitted into a holder, will fit into your scanner with room to spare. AA cells might be a squeeze in a holder.

If you are skilled in electronics, I personally would opt for AA 2500mAH cells, glued/shrink wrapped together in the same way as the old pack, with a new wall adaptor and modified charging circuit. Even the cheaper conventional (ie non-tagged) cells can be soldered as long as the contacts are given a quick rub with fine sandpaper and soldered very quickly with a hot iron.

Dave

• *Follow-Ups:*

- ◆ [Re: Sanyo battery pack](#)
◇ From: Dave D

• *References:*

- ◆ [Sanyo battery pack](#)
◇ From: Pompey ©

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