

Batteries...

A HEAVY LOAD OF POWER!



WHEN YOUR PLATOON LEADER GIVES THE COMMAND AND YOU MOVE OUT ON PATROL, YOU'RE CARRYING A HALF-DOZEN OR MORE DIFFERENT TYPES OF BATTERIES WITH YOU.

YOU'RE LOADED DOWN WITH EQUIPMENT THAT NEEDS POWER AND THAT POWER IS SUPPLIED BY BATTERIES. KEEPING TRACK OF THE BATTERIES YOU NEED CAN BE A HEADACHE.

TO HELP THAT HEADACHE GO AWAY, HERE'S A LIST OF THE MOST COMMON PIECES OF EQUIPMENT YOU MAY BE CARRYING OR WEARING AND THE BATTERIES THAT POWER THEM.

AN/PRC-152C, GPS Handheld Radio, Falcon III, NSN 5820-01-551-6851

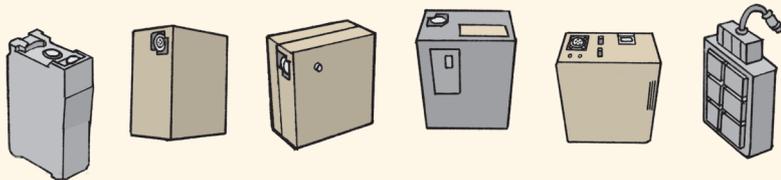
The Falcon III gives you eight battery choices in addition to the manufacturer supplied battery, NSN 6140-01-548-7566, that comes with the radio. Seven of those choices are:

- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316;
- BA-8180/U, NSN 6135-01-500-0572.

All of these choices require only one battery. The eighth choice, BA-3058/U, NSN 6135-00-985-7845, requires 16 AA batteries and battery tray, NSN 6160-01-571-7464.



The BA-5590B/U and BA-5590A/U will last about 46 hours in your Falcon III. You will need the J-6686/U adapter, NSN 5940-01-517-3990, to use the BA-8180/U.



AN/PVS-14, Monocular Night Vision Device, NSN 5855-01-432-0524

AN/PEQ-2A, Infrared Illuminator, NSN 585-01-447-8992

AN/PAQ-4B, Infrared Aiming Light, NSN 5855-01-361-1362

AN/PVS-7D, Night Vision Goggle, NSN 5855-01-422-5413

AN/PVS-5C, Night Vision Goggle, NSN 5855-01-228-0936

AN/PAS-13D(V)2, -(V)3, Thermal Weapon Sight, Medium,

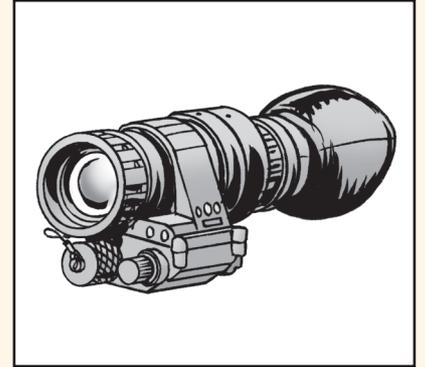
NSN 5855-01-524-4313 or Heavy, NSN 5855-01-524-4314

AN/PSN-13, Defense Advanced GPS Receiver (DAGR), NSN 5825-01-516-8038

You have a choice of three batteries to power the equipment in this list. You can use the BA-3058/U, NSN 6135-00-985-7845, a non-rechargeable alkaline AA cell.

Or the L91, NSN 6135-01-333-6101, a non-rechargeable lithium iron disulfide battery. The L91 will give you a few more hours of runtime and can take high heat better, but will cost you more.

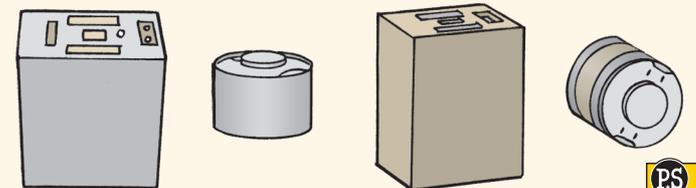
Or the NH15, NSN 6140-01-467-3225, a rechargeable nickel metal hydride. To keep this battery charged, you'll need charger, NSN 6140-01-413-3929.



Whichever battery you choose, you'll need six to power your thermal weapon sight, four to run your DAGR and two to run the rest of the equipment listed.

The PVS-7D and PVS-5C have two other choices, the BA-5567A/U, NSN 6135-01-447-5082, a 3V non-rechargeable, lithium sulfur dioxide and the BA-5367/U, NSN 6135-01-507-1135, a 3V non-rechargeable, lithium manganese dioxide battery. The advantages to these two batteries over the first three is you only need one to do the job and they can withstand higher temperatures. The disadvantage is their runtime is half of what the other three offer.

If you have a non "D" model thermal weapons sight, use one BA-5347/U, non-rechargeable lithium manganese dioxide, battery, NSN 6135-01-455-7946 or one, BB-2847A/U, NSN 6140-01-493-8092, 8V rechargeable lithium ion battery. To recharge the BB-2847A/U, you'll need adapter, J-6354, NSN 5940-01-427-9278, and the portable battery charger, NSN 6130-01-495-2839. Or you can use the vehicle-mounted charger, NSN 6130-01-527-2726, which does not require an adapter.



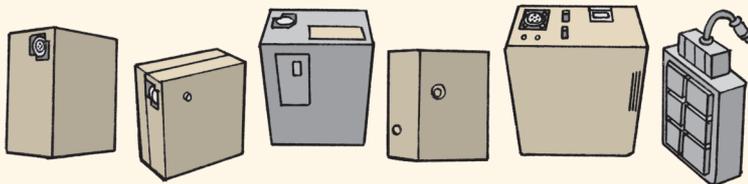
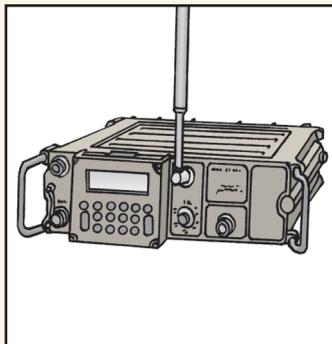
AN/PRC-117F, Multiband Radio, Harris, NSN 5820-01-462-2484

The Harris radio gives you seven battery choices:

- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BA-8180/U, NSN 6135-01-500-0572;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316.

You will need the J-6687/U adapter, NSN 5940-01-516-9787, to use the BA-8180/U.

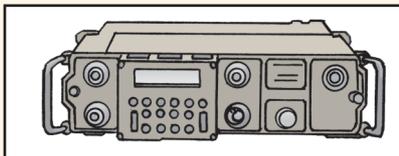
BA-5590B/U without a state-of-charge indicator and the BA-5590A/U with a state-of-charge indicator will last about 18 hours in your radio.



AN/PRC-150(C), HF Radio Manpack, NSN 5820-01-492-3628

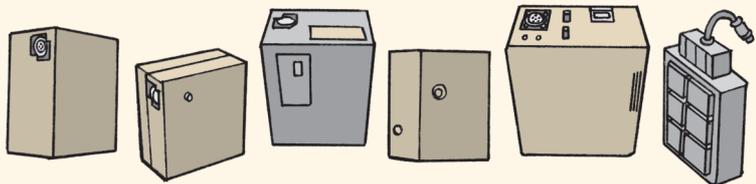
The manpack radio gives you seven battery choices and none of them require an adapter. The choices are:

- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BA-8180/U, NSN 6135-01-500-0572;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316.



You'll need two of each of these except the BA-8180/U. You'll need only one of those.

You will need the J-6687/U adapter, NSN 5940-01-516-9787, to use the BA-8180/U.



AN/PRC-148(V)1(C) through (V)5(C), Multiband Radio, MBITR

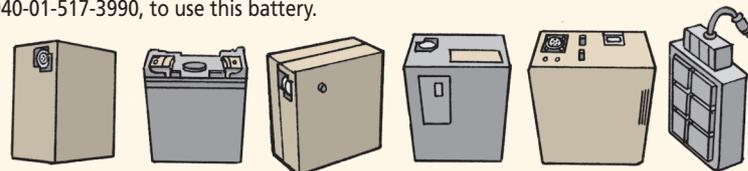
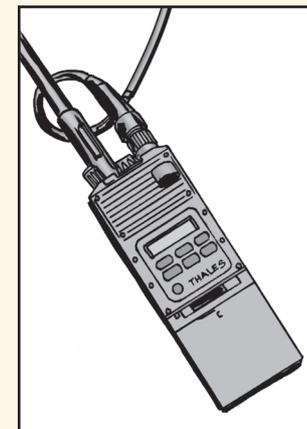
The MBITR gives you seven battery choices in addition to the Thales supplied battery, NSN 6140-01-487-1153, that comes with the radio. All seven of those choices:

- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BA-8180/U, NSN 6135-01-500-0572;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316,

require an adapter, J-6686/U, NSN 5940-01-517-3990, to use. All of these choices require only one battery. You'll need 12 batteries of the eighth choice, the BA-5123/U, NSN 6135-01-351-1131, and battery tray holder, NSN 6160-01-487-1151.

BA-5590B/U is a non-rechargeable lithium sulfur dioxide battery without a state-of-charge indicator. BA-5590A/U is a non-rechargeable lithium sulfur dioxide battery with a state-of-charge indicator. These batteries will last about 46 hours in your radio which is almost 4-times longer than the manufacturer's battery. The BA-5390A/U is a non-rechargeable 12/24V lithium manganese dioxide battery with a state-of-charge indicator. The BA-5390/U is a non-rechargeable 12/24V lithium manganese dioxide battery without a state-of-charge indicator. The BB-390B/U is a rechargeable 12/24V nickel metal hydride battery.

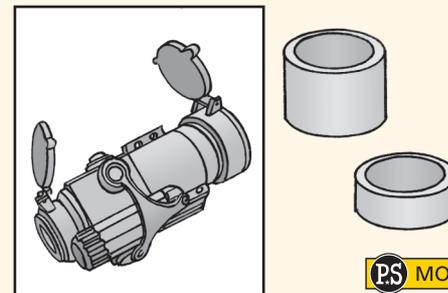
The BA-8180/U is a 12/24V zinc air battery. You will need the J-6686/U adapter, NSN 5940-01-517-3990, to use this battery.



M68, Reflex Sight, NSN 1240-01-411-1265

The M16 and M4's reflex sight uses one non-rechargeable lithium manganese dioxide battery, NSN 6135-01-398-5922. When you order this battery, you'll receive a battery with one of these part numbers: CR1/3N, DL1/3N or 2L76. One of these will make your sight work.

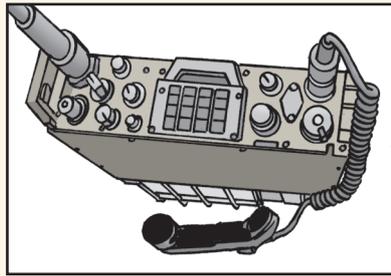
NSN 6135-01-174-8057 brings another battery you can use, the A-76. You'll need two of these.



AN/PRC-119 through 119F, SINGARS Radio Sets

The SINGARS radio gives you seven battery choices and none of them require an adapter. The choices are:

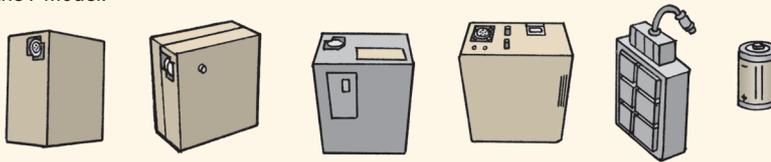
- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BA-8180/U, NSN 6135-01-500-0572;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316.



Your radio needs only one of these batteries.

You will need the J-6634/U adapter, NSN 5940-01-504-5597, to use the BA-8180/U on the A-E models.

You will need the J-6633/U adapter, NSN 5940-01-504-3218, to use the BA-8180/U on the F model.



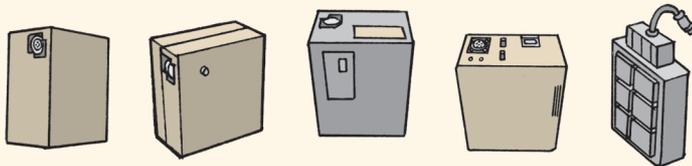
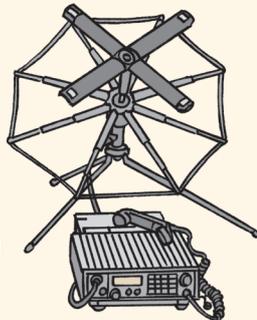
AN/PSC-5, Manpack UHF Terminal, NSN 5820-01-366-4120

The manpack terminal gives you seven battery choices and none of them require an adapter. The choices are:

- BA-5590B/U, NSN 6135-01-438-9450;
- BA-5590A/U, NSN 6135-01-523-3037;
- BA-5390/U, NSN 6135-01-501-0833;
- BA-5390A/U, NSN 6135-01-517-6060;
- BA-8180/U, NSN 6135-01-500-0572;
- BB-390B/U, NSN 6140-01-490-4317;
- BB-2590/U, NSN 6140-01-490-4316.

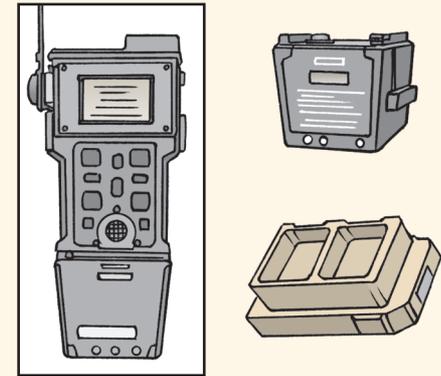
All of these require two batteries except the BA-8180/U needs only one. You will need the J-6687/U adapter, NSN 5940-01-516-9787, to use the BA-8180/U.

The BA-5590 should last about 17 hours in your PSC-5.



AN/PRQ-7, Radio Set, CSEL, NSN 5820-01-499-4473

The CSEL uses one BA-5301A/U, non-rechargeable lithium manganese dioxide battery, NSN 6135-01-568-3234; or one, rechargeable lithium ion battery, BB-2001A/U, NSN 6140-01-534-3856. To recharge this battery, you'll need adapter, NSN 5940-01-544-3476 and charger, NSN 6130-01-495-2839.



Phoenix Light, Infrared Transmitter, NSN 5855-01-396-8734

The Phoenix uses one non-rechargeable, 9V alkaline, BA-3090/U, NSN 6135-00-900-2139.

More Battery Info

Don't use old batteries with expired use-by dates. Batteries don't improve with age. Buy what you need when you need them. Then, use them or lose them.

Finally, use the internet for POWER—Power Optimizer for the Warfighter's Energy Requirements. Log into AKO and enter this URL in the address bar:

<https://www.us.army.mil/suite/doc/5859304>



POWER OPTIMIZER FOR THE WARFIGHTER'S ENERGY REQUIREMENTS
 Created by USA CECOM-LCMC, Power Sources Team, Ft. Monmouth, NJ
 Distribution authorized to U.S. Government agencies and their contractors for official use or for administrative or operational purposes only.

White Areas require user input

1) Select an End Item

AT THIS SITE YOU WILL FIND A COMPREHENSIVE SOURCE OF BATTERY TO END-ITEM RELATIONSHIPS, BATTERY RUNTIMES AND BATTERY OPTIONS.

The selected item is the AN/PRC-119F, Radio Set (SINGARS), NSN: 5820-01-451-8252

2) Select the temperature conditions in which the end item will be used: Normal Temperature (32°F to 130°F)

Battery option(s)	Qty	Run Time	Units	Note:	Total Batt. Weight	Units
BA5590	1	33	hrs		2.3	lbs
BA5390	1	50	hrs		3.0	lbs
BB2590	1	31	hrs		3.2	lbs
BB390	1	23	hrs		3.9	lbs
BA8180	1	165	hrs		6.0	lbs

3) Given the above options, which battery do you wish to use: BB2590

*Note: Batteries listed here those listed in the TM of so For a list of which battery obsolete, and their replaces the tab-labeled PS