

# EMP Protection Ham in a Can



No not like that one more like this one.



There are lots of videos, books, youtube videos, and files online that will tell you all about EMP and what EMP is and how it works. This is not that. This is how to protect your ham radio from an EMP or CME. EMP Electro Magnetic Pulse, CME Coronal Mass Ejection.

If you are a ham radio operator you want to make sure your ham radio is protected as much as possible from either event so after the events you can get on the radio and learn where damage may have occurred, news from outside the area, pass along emergency traffic, and what other people are doing.

I will give links at the end of places to learn more and watch videos online.

Several names you will run across multiple times when looking up emp information are, Dr Arthur Bradley Nasa Scientist, Dr Peter Vincent Pry who was on the EMP commission, William R. Forstchen a writer and speaker who promotes EMP preparedness, and more.

Basically the more metal and better sealed a faraday cage you can provide the better. Having multiple layers of shielding is also a good thing. So we could start out with a handle talkie. Place the handle talkie in what some call an EMP bag or mylar electronics protection bag.



There are many manufactures of such bag each different. The more mils or thickness the bag supposedly the more protection. You could then take that mylar bag with handle talkie in it and place it inside an ammo can as another layer of protection.



Some will say you need to pull the rubber seal out of the metal ammo can and replace it with a metal gasket to make metal on metal contact or seal. This video will show you how that works. He also shows you how much shielding this provides in the video.

[https://www.youtube.com/watch?v=WQ6ul2ajKK8&index=13&list=PL8kkR3k\\_0rWGyvyCc9xyJrycJALOHVf7D&t=0s](https://www.youtube.com/watch?v=WQ6ul2ajKK8&index=13&list=PL8kkR3k_0rWGyvyCc9xyJrycJALOHVf7D&t=0s)

Be sure to read the questions and answers below the video as they usually contain a lot of valuable information as well.

Others say they will use a metal garbage can. His next video will show you the difference between a trashcan closed and one closed and sealed with aluminum tape. The amount with tape was a big difference to me and well worth doing if you want to protect your radios.

[https://www.youtube.com/watch?v=uYWhTMmv6bs&index=11&list=PL8kkR3k\\_0rWGyvyCc9xyJrycJALOHVf7D&t=61s](https://www.youtube.com/watch?v=uYWhTMmv6bs&index=11&list=PL8kkR3k_0rWGyvyCc9xyJrycJALOHVf7D&t=61s)

Also visit this video from Dr Pry about emp.

[https://www.youtube.com/watch?v=d8zZXsexTmQ&index=22&list=PL8kkR3k\\_0rWGyvyCc9xyJrycJALOHVf7D&t=38s](https://www.youtube.com/watch?v=d8zZXsexTmQ&index=22&list=PL8kkR3k_0rWGyvyCc9xyJrycJALOHVf7D&t=38s)

If you look on youtube and search for the names I gave you earlier you will find lots of informative videos on these individuals.

This is what I was thinking of doing and am implementing part of it now. I have a metal building with a metal roof already which will provide some level of shielding. Then getting one of the ham in a can purchase products or make your own.



Then purchase a large contractors tool box like this from Lowes or home depot and place or build the ammo can radio in it. Or a metal storage cabinet from an office supply store like Office Depot or Staples



I would use the metal cabinet like this person is using the wooden one on the right. Installing all my radios and computer then hooking up antenna and power connections when I was going to use them. I always disconnect my power and antennas now for fear of lightning.

By closing up the metal cabinet with my radio that is already in an ammo can that gives me three layers of protection, the building, ammo can, and cabinet.

I hope this helps others get some ideas. Please be careful as there is a lot of misinformation out there on the net. Make sure the information you are reading is from well known sources of engineers or scientist or others.

ARRL Article on EMP and Ham Radio Operators. All 4 parts.

[https://qsl.net/kx4z/QST-Electromagnetic Pulse and the Radio Amateur.pdf](https://qsl.net/kx4z/QST-Electromagnetic_Pulse_and_the_Radio_Amateur.pdf)

Small pdf on what to protect and why for hams.

<http://harriscountyares.org/training/KNW/KNW-131.pdf>

Good reasonable book on emp and ham radio.

<https://amzn.to/2U8VO28>

One of the best books by author and speaker who studied and found professionals in the field for research for his book. He has several books out under this same series and is really good read of what could happen in a fictional emp account.

<https://amzn.to/2Ea1Drp>