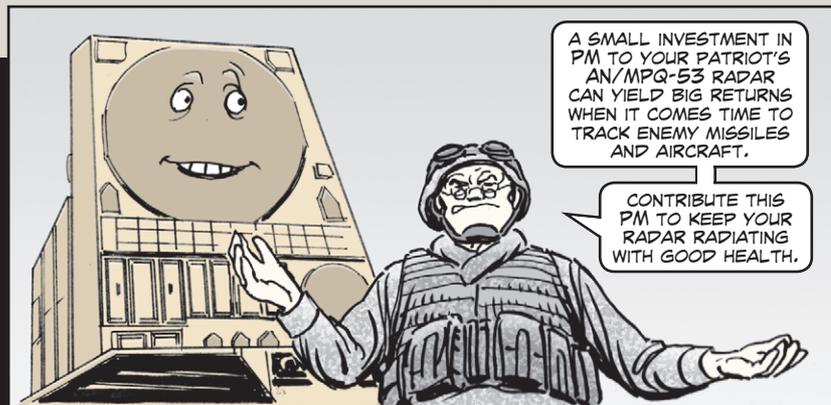
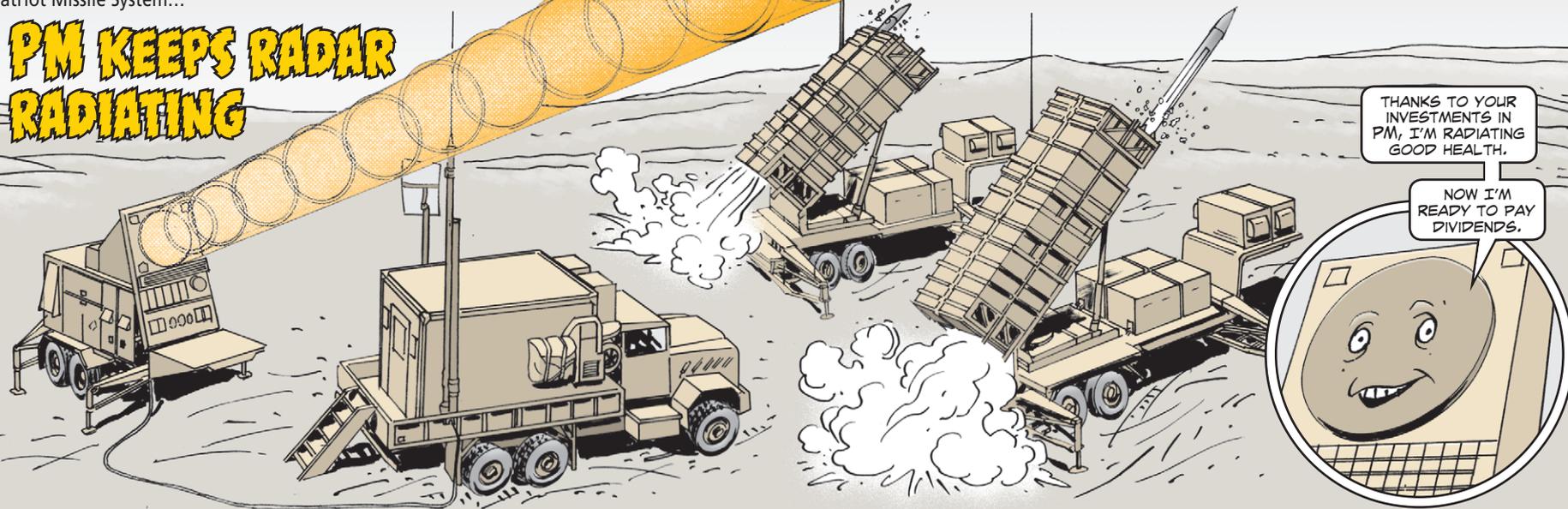


PM KEEPS RADAR RADIATING



Cables

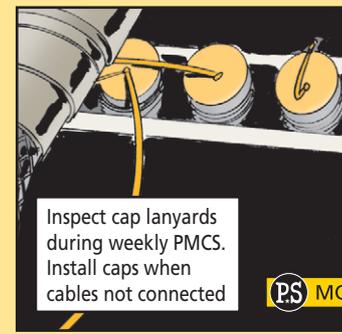
If those big power cables you hook up to the AN/MPQ-53 are in bad shape, the radar is in bad shape. It has no power. Look over the cables and connectors' threads for burrs and corrosion. They make it difficult to screw on the cables and can fool you into thinking you have the cable securely connected when you don't. Report problems to your repairman.

Connecting and disconnecting the large cables are **always** jobs for two hands. If you twist cables on and off with one hand, you eventually rip the cables' wiring. Those cables cost thousands to replace. Use one hand to support the cable and take the weight off the connector. Use the other hand to turn the connector.

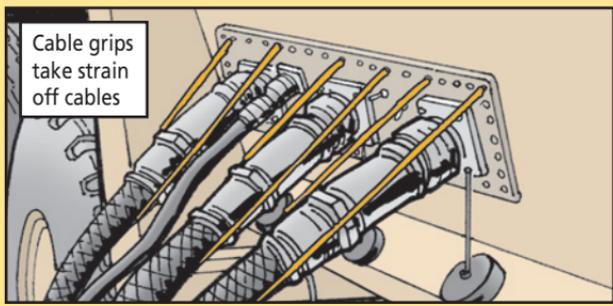


When you disconnect the cable, pull it straight off and don't let the head hit the ground. A hard fall could cost you a cable.

Cap cables and radar connectors when the cables are disconnected. If you leave them uncapped, sand plugs holes and unplugs power when you try to connect the cables. Check the caps' lanyards during weekly PMCS. They often break and once they do the caps soon disappear. It's difficult to get replacement caps. If a lanyard is shot, make a new one with wire or 550 cord. If a cap is missing, cover the cable and radar connectors with plastic bags until you can get a new cap.

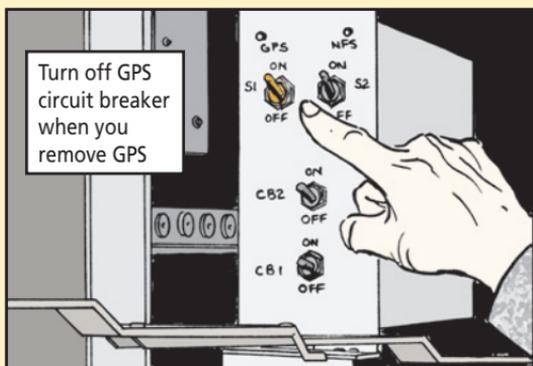


Using cable grips will help support the cables' weight and prevent wiring from being jerked loose. Order grips with NSN 5120-01-213-9538. These grips will work with all the Patriot's large cables.



GPS

When you remove the GPS, remember to turn off the GPS circuit breaker. If you forget, the RGN10 circuit card may be fried when you power up. Without the circuit card, you'll have trouble auto-emplacing the radar. See your AMCOM logistics assistance representative for more details.



Cleaning and Reseating

The cleaner you keep the AN/MPQ-53, the fewer problems you'll have. Dirt blocks fresh air that keeps electronics cool and also can cause electrical faults. Keep the radar's door shut as much as possible and vacuum inside the radar before operating. Any dirt on the floor will be sucked into the air system. Use low-pressure air to blow dirt out of the cabinets with circuit cards and wipe off the cabinets.

If you get system faults after moving the radar to a new site, reseat all the circuit cards in the rack the fault is showing up in. A loose card will cause faults and cost you troubleshooting time.

