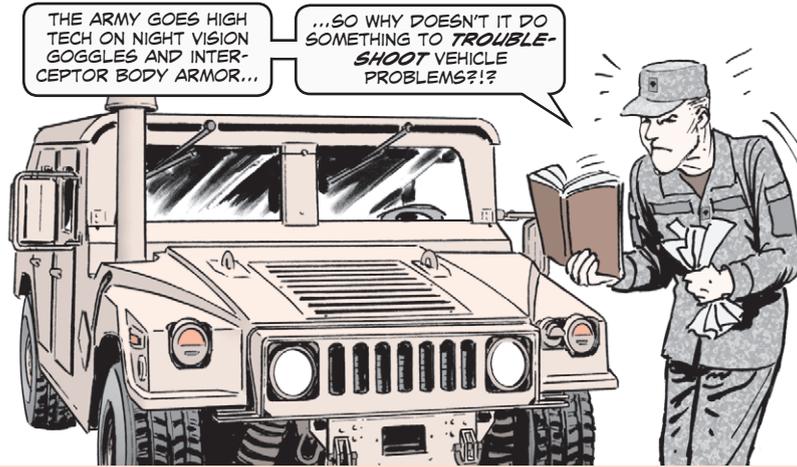
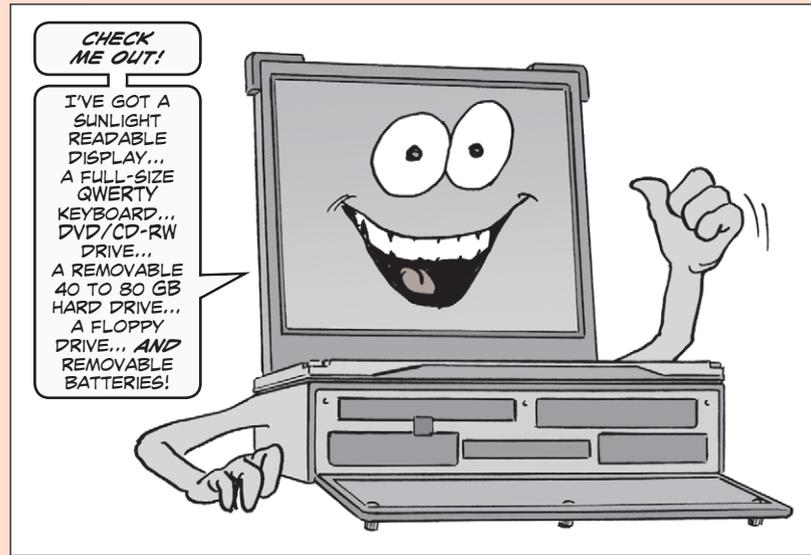


MSDs and IETMs

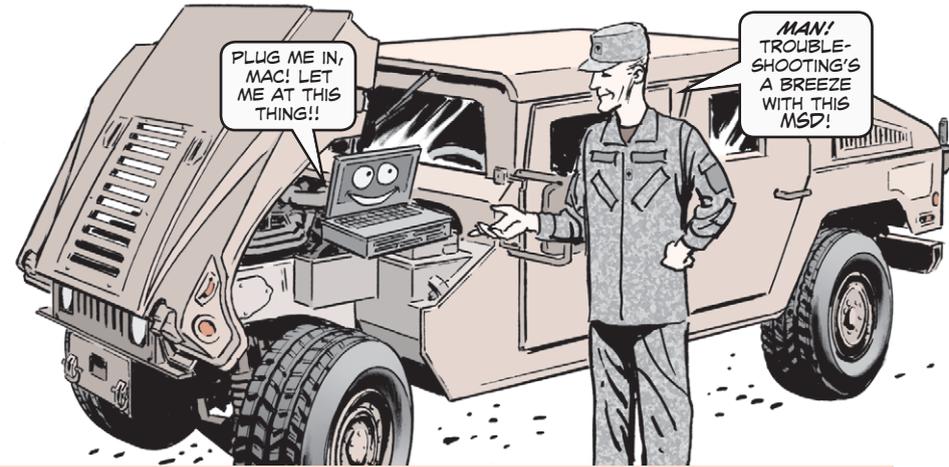


Soldiers like high tech items such as night vision goggles, HMMWV ballistic glass, Interceptor body armor, and unmanned aerial vehicles because they give them an edge over their enemies.

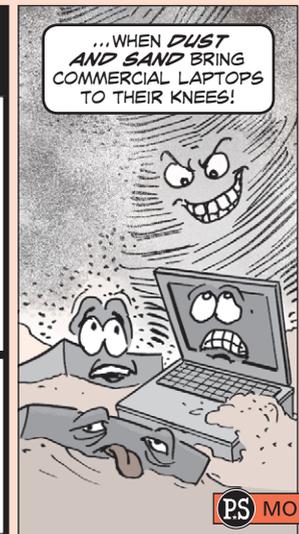
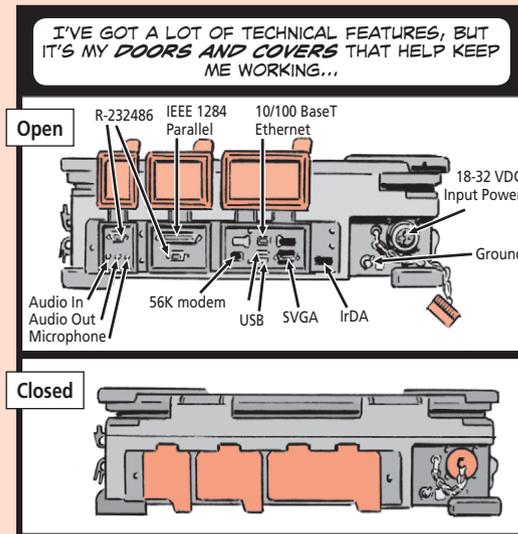
In the same way, the maintenance support device (MSD) with interactive electronic technical manuals (IETMs) improve the mechanic's ability to maintain the warfighter's edge.

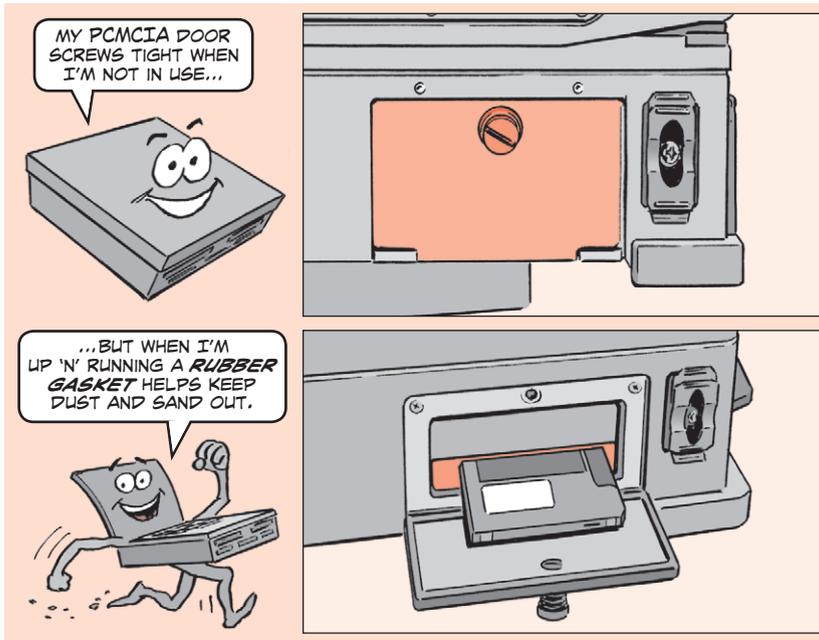


New Maintenance Tools



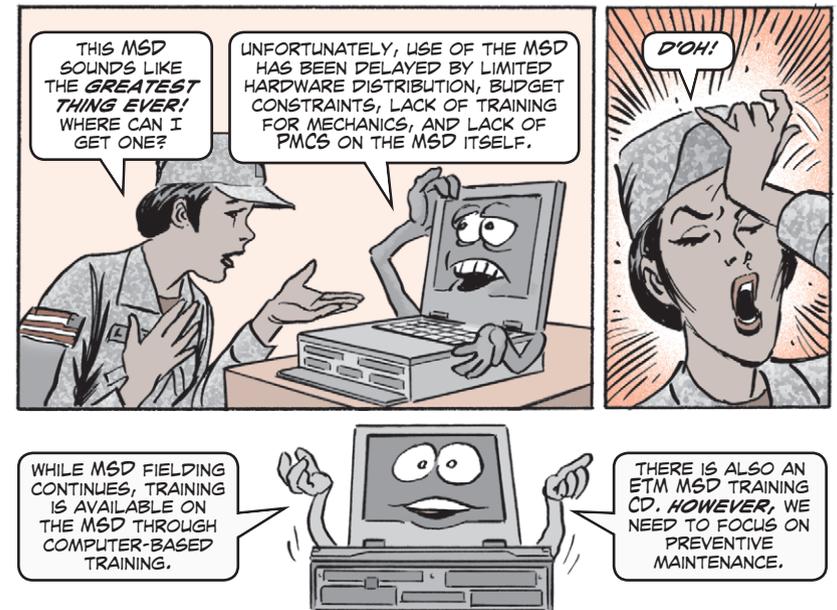
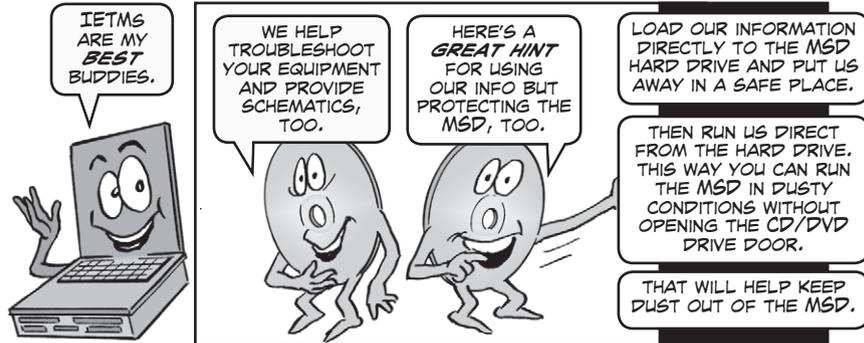
The MSD automates equipment diagnostics by electronically troubleshooting systems as varied as the Stryker, HMMWV, Abrams, Black Hawk, Javelin, Patriot, and the FMTVs, to mention a few. Its use greatly reduces human error and automates the parts ordering process.





A real value of the MSD is the ability to upload multiple IETMs giving mechanics immediate access to these new tools. Diagnostics can be run while moving through the IETM troubleshooting procedures. IETMs include great features like Point 2 Point™ schematics for electronic circuits, air and hydraulic systems. An added benefit is a reduction in the number of paper TMs the unit needs to carry.

The MSD also downloads data from your equipment and is used to load new software to your equipment.



Maintaining the MSD

The MSD is more rugged and versatile than laptop computers. It can be powered by AC or DC sources and by NATO vehicle adapters with connectors included in the carrying case. The MSD also has a display screen that is readable in sunlight. It stands up to desert hazards such as heat and sand better than laptops, but it isn't immune to damage or system failure.

So how do you keep MSDs working in the desert? Here's the scoop.

DON'T...

- Pour any liquid cleaner or spray any aerosol cleaner on the MSD.
- Wipe the display screen with a dry cloth.
- Remove the removable hard drive while the system is powered on.

DO...

- Turn off MSD power before cleaning.
- Use isopropyl alcohol for cleaning.
- Gently clean the display screen with a lint-free cloth dampened in isopropyl alcohol. Turn the cloth frequently to avoid scratching the screen.
- Use commercially available cleaning kits each month for floppy disk and DVD drives. Follow kit instructions.

FOLLOW THESE
"BEFORE
OPERATIONS"
PROCEDURES...



ITEM	Procedures
MSD-B	Inspect for visible signs of damage. Check connector covers and latches to ensure proper function.
Display screen	Inspect for excessive dust or dirt. Clean as needed.
Peripheral bays	Open the access doors. Inspect drives, batteries and connectors for signs of damage. Clean drive bays as needed with a soft bristle brush.
Keyboard	Inspect for visible damage. Use a cloth dampened with isopropyl alcohol or a soft bristle brush to wipe clean. Press all keys to ensure rebound on release.
Batteries	Remove and check for damage and state of charge. Batteries should have a full charge.
Power supply/charger	Inspect the AC power cord and DC output cable for visible damage.
NATO power cable	Check cable and connectors for visible signs of damage.
Transit case	Inspect for damage and missing components. Check that the latches will securely close the case.
European power connector adapter	Inspect for completeness and damage. Check for presence of fuse. If fuse is missing or blown, replace it with a commercially available 13-amp, 250-volts AC, F-type quick-acting, fast-blow fuse.
PCMCIA cards	Check for damage. Install required cards. If no cables are attached to installed cards, close the access door before turning the system on.
PCMCIA slots and other MSD openings	<p>Ensure power is off. To clean slots/openings, remove PCMCIA cards, batteries and removable hard drive. Place removed items on a clean, stable surface. If available, use a can of commercially available compressed air to blow dust and dirt off openings.</p> <p>DO NOT USE AN AIR COMPRESSOR.</p> <p>DO NOT OPEN THE MAIN CHASSIS — THE WARRANTY WILL BE VOIDED.</p> <p>If slots/openings need cleaning from dust or finger oils, lightly wipe inside connectors with a cotton or foam swab moistened with isopropyl alcohol and let it dry.</p> <p>Re-install cards, batteries and the removable hard drive.</p>

Taking Care of Repairs

There is a five-year three-month warranty on the MSD that covers everything, including the batteries. To replace batteries or get tech assistance call the Miltope MSD hotline, 888-577-6780, or email:

msdmail@miltope.com

TMDE/RDECOM also run a help desk for internal combustion engine vehicles, 877-564-1137.

When your MSD is missing parts or not working right, call the MSD hotline. If the problem can't be fixed over the phone, you'll get instructions for returning the MSD along with prepaid shipping. If you're in SWA there's a difference in shipping times between the MSD and the newer MSD version 2. The MSD 2 contract saves 23 days of turnaround time by immediately shipping a replacement MSD after authorizing return of your damaged MSD.

Keeping Up with Change

As the system is being fielded, it is also taking advantage of technology advances. The Pentium processor has been a 1.3 GHz chip, but is now a 1.8 GHz. The 40 GB removable hard drive has been upgraded to 80 GBs. New MSDs add wireless capability.

