



PREVENTIVE MAINTENANCE MONTHLY

ISSUE 778 SEPTEMBER 2017

13302 770 SELTEMBER 2017		Gage Protection Case Alternative
COMBAT VEHICLES	2	SMALL ARMS
M88A1 Recovery Vehicle Ground Hop Compor M113-Series FOV PM Pointers	nents 3 4-8	M153 CROWS II, 4-3-2-1 Rule Prevents Damage
M2/M3-Series Bradley, Don't Push M242 Indicator Rod Stryker, Keep RWS Lenses Capped	9	CBRN
TACTICAL VEHICLES	5 10	COMET CBRN Advice M40-, M50-Series Mask Canister Replacement M12A1 Decon Terrain Decon Spray Bar (TDSB)
HMMWV Serpentine Belt NSNs M1097R1 HMMWV Protective Control Box M1151, M1151A1, M1151A1w/B1, M1167	11 11	COMMUNICATIONS
HMMWV Cargo Hatch Hinge Bracket Guidan SECM Truck Assistance FMTV A/C Compressor Leak Check	12-13 13 14	AN/PSQ-20 ENVG Battery Connector Shoes Generators, Shut Down after Equipment Power Down
CONSTRUCTION	15	SOLDIER SUPPORT
M1231 MK III VMMD Husky Step Guidance HMEE-1 Backhoe Hidden Grease Fitting	16-17 18	Containerized Batch Laundry, No PDISE for Powe MTRCS Door Parts

AVIATION

MEDEVAC. Rescue Basket Safety Issue

UH/HH-60 Series. External Rescue Hoist

AGPU Cocoon Cover Maintenance and

CH-47F Aircraft Sun Shades

CONSTRUCTION	15	SOLDIER SUPPORT	49
MMD Husky Step Guidance	16-17	Containerized Batch Laundry, No PDISE for Power	50-51
Hidden Grease Fitting	18	MTRCS Door Parts	51
-		Kitchen Equipment Ventilation Hood Cleaning	52-53
A1// ATION	40	Containerized Kitchen Water Pump NSN	53

19 22-23

LOGISTICS MANAGEMENT 54 MSD. Software Compatibility Combinations

56-57 **HAZMAT Shipping Guidance** 57 MSD V2 Operating System Upgrade 58-59 **HAZMAT** Disposal Help

MISSILES

Patriot Missile System Cleaning

HIMARS, Drain Cock Elbow Pipe Fitting Update

TOOLS

35

36-37

37-38

39

39

40

40-41

42

42-43

43-44

46

47

48

60-61

Dungeons and Dragoons 27-34 Connie's Post Scripts

TB 43-PS-778, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for a

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You are invited to send PS your ideas for improving maintenance procedures, questions on maintenance and supply problems and guestions or comments on material published in PS.

Just write to:

TM Update

Installation

MSG Half-Mast PS, the Preventive Maintenance Monthly **USAMC LOGSA (AMXLS-GP)** Bldg. 3303 Redstone Arsenal, AL 35898

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By order of the Secretary of the Army:

MARK A. MILLEY General, United States Army Chief of Staff

Official

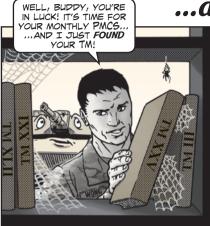
GERALD B. O'KEEFE

Administrative Assistant to the Secretary of the Army

1716752

Stock Current TMs...







PS writers go to the field several times each year to talk to Soldiers first-hand about what kind of equipment and maintenance problems they're experiencing.

Two problems that surface nearly every trip are that many motor pools, arms rooms, CBRN rooms and other maintenance shops aren't stocking current TMs and that the -10 TMs aren't going to the field with Soldiers.

Ignoring the importance of TMs dooms your equipment to failure. TMs are written by the equipment experts to guide you through PMCS, troubleshooting, repairs, and ordering parts. If you don't have the most current TMs, you are missing out on changes to procedures and NSNs, changes that could be critical. And if the TMs never leave the motor pool, they do no good to the Soldier in the field who actually operates the equipment. He must try to remember what he learned in school years ago, instead of being able to flip open the -10 TM to do troubleshooting.

Worried about TMs not making it back to the motor pool? Don't be. Your pubs clerk can order replacements for free.

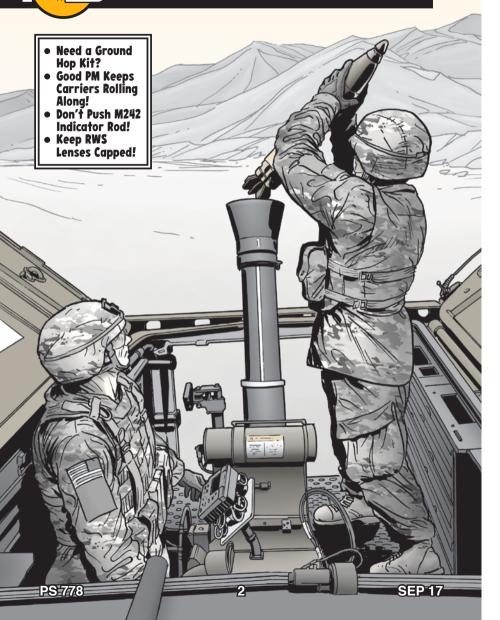
Not sure what TMs you need or if your TMs are current? LOGSA's Publications Tailored Index Listing (PTIL) can give you a complete list of the pubs you need for your equipment and the current edition of each pub. Contact them at DSN 645-8586, (256) 955-8586, or email: usarmy.redstone.logsa.mbx.eopdb@mail.mil Be sure to include your UIC and the levels of maintenance you are authorized to perform.

The LOGSA ETM site gives the latest version of almost all TMs. Go to:

https://liw.logsa.army.mil/etmapp/#/etm/home

Make sure your TMs are up-to-date and that they reach the people who need them. Those are crucial steps to equipment readiness and mission success.

SEP 17 PS 778



M88A1 Recovery Vehicle...

HEED A GROUND HOP KIT?



Dear Half-Mast,

Can you help me out with the NSN for the M88A1 recovery vehicle's ground hop kit? Also, I need the transmission caps to use when ground-hopping.

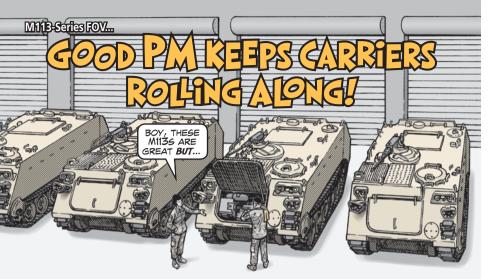
SGT C.D.H.

NO PROBLEM, SERGEANT! THERE ISN'T A SINGLE NON FOR THE GROUND HOP KIT. YOU'LL HAVE TO ORDER THE KIT BY ITS INDIVIDUAL COMPONENTS YOU'LL FIND THESE ITEMS LISTED IN FIG 463 OF TM 9-2350-256-13&P IN IETM EM 0355 (MAY 15):



Component	NSN	Qty
Accessories cable assembly	6150-00-615-8737	1
Generator cable assembly	2920-00-614-7203	1
Starter cable assembly	6150-00-614-7543	1
Ground cable assembly	6150-00-674-8738	1
Engine primer (purge pump) hose assembly	4720-01-044-8393	1
Main and return fuel line hose assembly	4720-01-041-3375	2
Ground hop air filtration kit	2815-01-334-3270	1
Transmission caps	2590-00-330-8642	1

PS 778 3 SEP 17











HERE'S HOW YOU CAN

Oil Check

ENGINE AND TRANSMISSION OIL IS THE LIFEBLOOD OF ANY VEHICLE, AND THE MITS IS NO

EXCEPTION.

CONFUSED ABOUT HOW TO BEST CHECK THE OIL LEVELS.

BUT YOU MIGHT BE

THE PMCS CHARTS IN THE -10 TMS SAY TO DO AN AFTER-OPERATION HOT CHECK, WHILE THE LUBE ORDERS (LO) SAY TO DO A BEFORE-OPERATION COLD CHECK, OR BOTH A HOT AND COLD CHECK.

THE READING YOU GET IS BASED ON WHETHER YOU DO A HOT OR COLD CHECK.

THE RIGHT THING IS TO DO BOTH CHECKS.



THE READING WON'T BE COMPLETELY ACCURATE, BUT IT DOES KEEP YOU FROM DRIVING THE CARRIER IF IT'S DANGEROUSLY LOW ON OIL.

THE OIL LEVEL SHOULD BE AT OR JUST ABOVE THE DIPSTICK'S F (FULL) MARK FOR A COLD CHECK.

IF THE LEVEL IS BELOW THE L (LOW) MARK, GET YOUR MECHANIC TO CHECK FOR LEAKS. IF IT'S VERY FAR ABOVE THE F MARK, HE MAY NEED TO DRAIN SOME OIL.

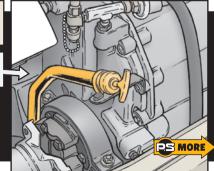
THE HOT CHECK IS THE MOST ACCURATE AND THE ONE THE DIPSTICK WAS DESIGNED FOR.

TO CHECK THE ENGINE OIL, SHUT THE ENGINE DOWN AFTER IT REACHES OPERATING TEMPERATURE, CHECK THE OIL LEVEL AFTER WAITING 3-5 MINUTES.

YOU'LL NEED TO CHECK THE TRANSMISSION OIL LEVEL WHILE THE ENGINE IS RUNNING AT OPERATING TEMPERATURE (160-230°F).

YOU SHOULD GET READINGS BETWEEN THE LAND F MARKS

IF EITHER OIL LEVEL IS BELOW THE L OR ABOVE THE F. LET YOUR MECHANIC KNOW RIGHT AWAY.



PS 778 SEP 17

Fuel Cap PM

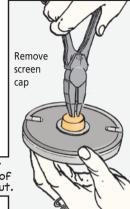
DIRT, SAND AND OTHER CONTAMINANTS CAN SIDELINE YOUR CARRIER IF YOU'RE NOT DILIGENT ABOUT PM ON EVERY COMPONENT OF THE FUEL SYSTEM, INCLUDING THE FUEL CAP, NSN 5342-01-083-5674.

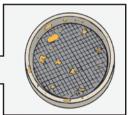
IF YOU DON'T CLEAN THE SCREEN CAP AND RUBBER VENT GROMMET ON TOP OF THE FUEL CAP, THE CAP GETS PLUGGED WITH DIRT, CREATING A VACUUM AND CAUSING FUEL FLOW PROBLEMS.

SO BE SURE TO CLEAN THE CAP AND GROMMET EVERY SIX MONTHS-MORE OFTEN IN DUSTY OR SANDY ENVIRONMENTS.

HERE'S HOW TO INSPECT AND CLEAN THE CAP AND GROMMET:

- Grip the tang in the center of the fuel cap with a pair of pliers and pull the screen out.
- Take a close look at the grommet in the fuel cap. If it's damaged, replace the entire fuel cap.
- Clean the screen cap with dry cleaning solvent.

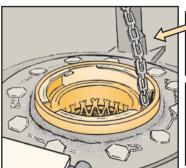




THEN CHECK UNDERNEATH THE BOTTOM OF THE FUEL CAP.

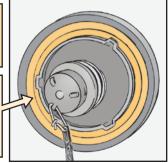
DIRT AND SAND CAN COLLECT AROUND THE FILLER NECK, KEEPING THE CAP FROM SCREWING ON PROPERLY.

THAT CAN BEND THE METAL LIP INSIDE THE FUEL TANK OPENING, WHICH CAN DAMAGE THE GASKET ON THE UNDERSIDE OF THE FUEL CAP.

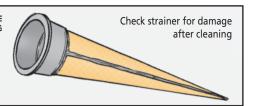


BRUSH AWAY ANY DIRT OR SAND FIRST BEFORE OPENING THE FUEL CAP.

AND THEN MAKE SURE THE FILLER NECK AREA IS CLEAN BEFORE CLOSING THE FUEL CAP.



PULL OUT THE FUEL STRAINER INSIDE THE FILLER NECK BEFORE SCREWING THE FUEL CAP BACK INTO PLACE. IF THE STRAINER IS CLOGGED WITH SEDIMENT, CLEAN IT WITH SOLVENT AND INSPECT THE STRAINER FOR CUTS OR TEARS, IF YOU FIND DAMAGE, REPLACE THE STRAINER USING NSN 4730-00-701-3921.



Ramp Reservoir

NOT ONLY DO YOU NEED TO CHECK YOUR MIIS'S RAMP HYDRAULIC RESERVOIR FLUID EVERY DAY ...

...YOU NEED TO CHECK IT THE RIGHT WAY.

ALWAYS PARK THE VEHICLE ON LEVEL GROUND BEFORE CHECKING THE FLUID, IF YOU PARK IT ON AN INCLINE, THE SIGHT GLASS READING MIGHT MAKE IT APPEAR THERE'S EITHER TOO MUCH OR TOO LITTLE HYDRAULIC FLUID IN THE RESERVOIR.



IF YOU ADJUST THE LEVEL BASED ON A FAULTY READING, YOU COULD END UP WITH TOO MUCH OR TOO LITTLE HYDRAULIC FLUID.

TOO MUCH

MEANS A BIG MESS WITH FRH LEAKING OUT OF THE HYDRAULIC SYSTEM TANK BREATHER.

TOO LITTLE

COULD MAKE YOUR RAMP ACT FUNNY OR STOP WORKING ALTOGETHER.

DON'T FORGET THAT THE RAMP HAS TO BE ALL THE WAY DOWN WHEN YOU CHECK THE FLUID!

FOLLOW THE RAMP LOWERING INSTRUCTIONS IN THE -10 TM. IF YOU READ THE RESERVOIR SIGHT GLASS WHILE THE RAMP IS CLOSED OR PARTIALLY OPEN, THE RESERVOIR WILL APPEAR TO HAVE TOO LITTLE HYDRAULIC FLUID.



CHECK OUT THE LUBRICATION TABLE ON CARP 21 OF LO 9-2350-261-12 (JUL 90, W/CH 4, JUL 97) FOR THE M113A2 AND CARD 19 AND 20 OF LO 9-2350-577-13 (MAY 12, W/CH 1, SEP 13) FOR THE M113A3.

THEY HAVE MORE INFORMATION ABOUT KEEPING THE HYDRAULIC SYSTEM UP AND RUNNING IN ALL CONDITIONS.



PS 778 SEP 17

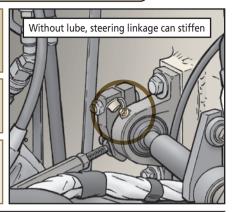
M113A3 Steering Bearing

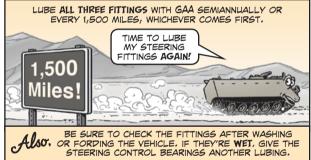
THE STEERING ON THE MII3A3 GETS STIFF AND HARD TO TURN WITHOUT REGULAR LUBE.

THERE ARE
THREE LUBE
POINTS FOR
THE STEERING
CONTROL
BEARINGS.

MOST CREWMEN REMEMBER THE **TWO** ON THE STEERING SHAFT,

BUT THE THIRD ONE, LOCATED IN THE ENGINE COMPARTMENT, IS OFTEN MISSED.







M2/M3-Series Bradley...

DON'T PUSH M242 INDICATOR ROD!

I APPRECIATE ALL YOUR PMCS, BUT PLEASE KEEP YOUR HANDS OFF MY RECOIL INDICATOR ROD.

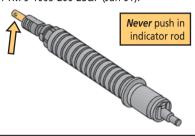


Bradley crewmen used to check the recoil fluid level for the M242 automatic gun by pushing in the indicator rod.

Don't do that!

All the recoil mechanisms have been replaced. If you push in the indicator rod on the new recoils, it can damage the recoil and lead to leaks.

To check the recoil fluid levels, repairmen should follow the procedure in WP 0049-00 in TM 9-1005-200-23&P (Jun 01).





Dear Editor,

Stryker units need to remember the importance of keeping the lenses for the remote weapon station (RWS) capped when they're not firing.

If the lenses are facing the sun without caps, the lenses can be burned out. That's a very expensive fix.

Of course, a big problem is that the caps disappear and nobody bothers to order more. Don't make that mistake. Order replacements with these NSNs:

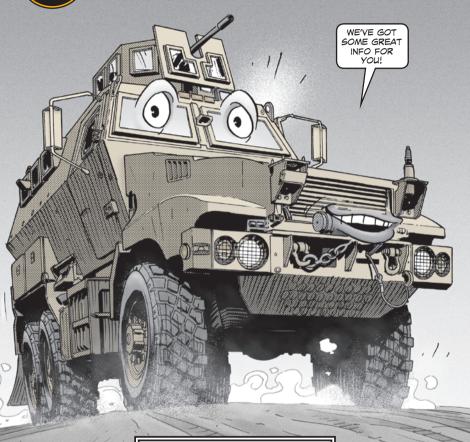
- thermal imaging module (TIM), NSN 5895-01-573-6699
- visual imaging module (VIM), NSN 6760-25-150-4631

These caps aren't cheap. The TIM cap runs close to \$600 and the VIM cap almost \$150. So keep track of them.

Until the caps come, use the RWS cover, NSN 2590-25-150-4724, to protect the lenses and the entire RWS. Use the cover any time the Stryker will sit for long periods.

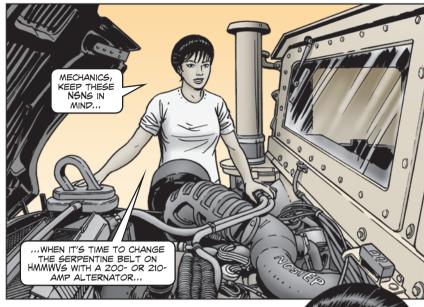
CPT David Anderson Ft Carson, CO Editor's note: A tip of the cap to you, Captain. Use those caps!





- Need a New Serpentine Belt?
- M1097R1 HMMWV Protective Control Box
- A Cure for the Bracket Cracker
- Need SECM Help?
- Look for Leaks on A/C Compressor

Need a New Serpentine Belt?



HMMWV Model	NSN 3030-
A2-Series M1113/M1114 (SN 196900 and below)	01-466-9476
A2-Series M1113/M1114, M1151A1, M1152A1, M1165A1 & M1167 (SN 196901 and above)	01-488-5606

NOTE THAT M998S USE ONLY V-BELTS.
THERE IS NO AUTHORIZED MWO THAT
CHANGES THAT VEHICLE'S CONFIGURATION
TO A SERPENTINE BELT.

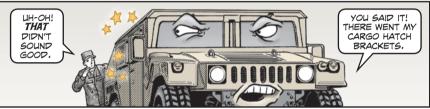
M1097R1 HMMWV Protective Control Box

Order a new protective control box for your M1097R1 HMMWV with NSN 6110-01-542-7901. NSN 6110-01-470-1931, which is shown as Item 6 in Fig 59 of TM 9-2320-280-13&P in IETM EM 0338 (Jan 14), is a terminal item.

M1151, M1151A1, M1151A1W/B1, M1167 HMMWVs...

A CURE FOR THE BRACKET CRECKER





Dear Half-Mast.

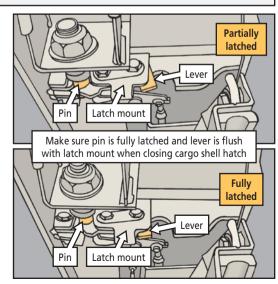
I'm looking for some guidance on the cargo hatch hinge brackets for HMMWVs. One of the units we support is reporting a lot of cracked bracket welds. Should these brackets be re-welded? Or is there a stronger bracket?

SSG S.P.D.

Dear Sergeant,

Good question. Cracked bracket welds can make your vehicle NMC if you're hauling equipment in the cargo area, so it's a problem that needs to be fixed.

One reason for the failure is when the hatch is opened from the rear position before the forward latch is completely closed to the second detent. When that happens, the added leverage can result in a cracked or failed bracket.



Prevent this problem by reviewing and practicing the opening and closing procedures for the cargo shell hatch. They're found in WP 0043 of TM 9-2320-387-10 (Sep 12) and in TM 9-2320-387-13&P (IETM EM 0323, Apr 14) under Operation Under Usual Conditions, Cargo Shell Door Operation (M1114, M1151, M1151A1, M1167).

Some units have tried welding the brackets as a quick fix, but that's not an authorized repair. TACOM has approved a much stronger bracket that fits the same and holds up better than the original bracket.

Get the new left-hand bracket with NSN 2590-01-574-8770 and the new right-hand bracket with NSN 2590-01-574-8782.

Installation instructions are available on AKO:

https://www.us.army.mil/suite/doc/23922086







SECM Knowledge Page: https://www.us.army.mil/suite/folder/17073357

SKOT Group webpage for tool replacement and warranty info: https://tools.army.mil

Army Enterprise Systems Integration Program (AESIP).

This is a new SKO site for current supply catalogs
and component lists:

https://www.aesip.army.mil/irj/portal

Sets, Kits and Outfits Online (historical supply catalogs only): https://liw.logsa.army.mil/

Click on App Warehouse and search for SKO.

Questions? Send an email to: usarmy.detroit.tacom.mbx.ilsc-skot-group-actions@ mail.mil

PS 778 13 SEP 17

Look For LACS on A/C Compressor





OPERATORS, PURING WEEKLY PMCS, YOU NEED TO DO AN AIR CONDITIONING LEAK CHECK ON YOUR FMTVAHP2, HIMARS AND LVAD TRUCKS.

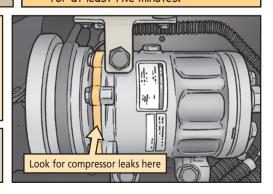
SPECIFICALLY, LOOK FOR COOLANT LEAKS COMING FROM THE A/C'S COMPRESSOR SHAFT SEAL.

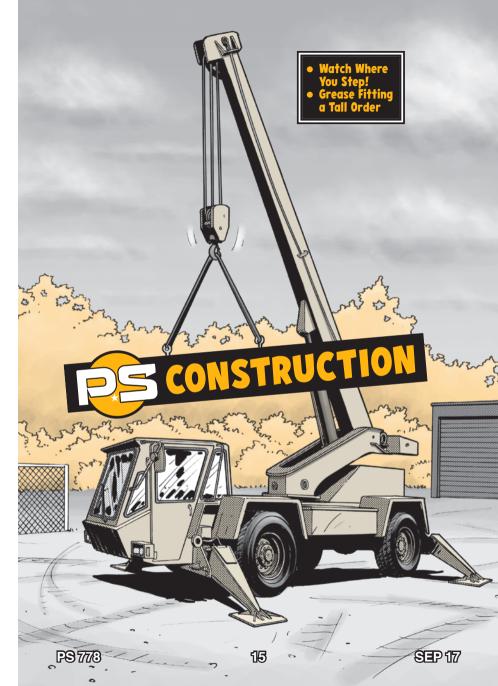
TO SEE IF THERE'S A LEAK, START THE VEHICLE AND SET THE A/C CONTROLS LIKE THIS:

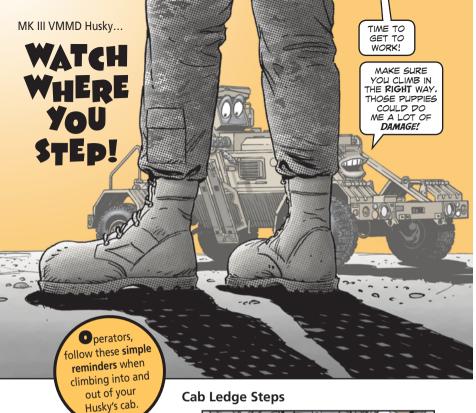
- 1. Turn the fan switch to HIGH.
- 2. Set the heat control switch to COLD.
- 3. Turn the fresh air/recirculation switch to either position.
- 4. Turn the vent/defrost control switch to either position.
- Turn the A/C switch to the ON position and let all the vehicle's systems run for at least five minutes.

NOTE: IF THE AMBIENT TEMPERATURE IS BELOW 65°F, TURN THE HEAT CONTROL SWITCH TO HOT AND THE FRESH AIR/RECIRCULATION. KEEP THE CAB DOORS CLOSED AND WAIT WHILE THE CAB WARMS TO 65°F. THEN TURN THE A/C SWITCH TO THE ON POSITION.

YOU'LL WANT TO LOOK FOR COOLANT LEAKS IN AND AROUND THE COMPRESSOR SHAFT SEAL. IF YOU SPOT ANY, REPORT THEM TO YOUR MECHANIC.

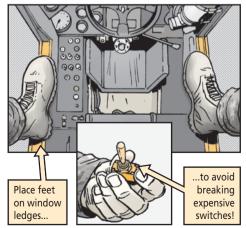






Easy does it when climbing up to the vehicle's cab. Place your feet on the window ledges only when lowering yourself into the cab.

And keep your feet away from the operator switch panel on the left and the detector panel on the right. A misplaced foot will bust the switches. Not only is that a costly replacement, but a busted switch means your Husky can't do its job during landmine and IED detection operations.



Behind the Cab

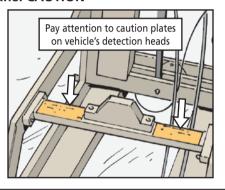


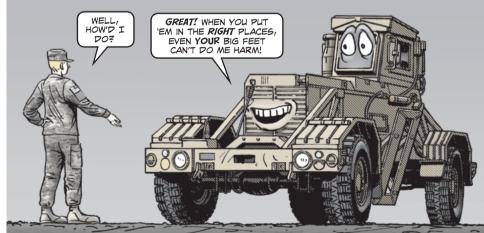
Detection Panel CAUTION

When working around the Husky, pay special attention to the CAUTION plates on the vehicle's detection heads.

CAUTION
DO NOT STEP ON
DETECTION HEADS

The plates are there for a good reason: to keep you from stepping on the detection heads! Your weight will break the heads, bringing mine detection operations to a screeching halt!





PS 778 16 SEP 17





It's a fact: Nine out ten operators will probably miss at least one of the 19 grease fittings on the HMEE-1's backhoe!



On the rear of the backhoe is a small opening that's there for one reason: to give you access to the grease fitting most often missed!



That's because the fitting is located about three feet above your head when the backhoe's in the elbow position. That makes it easy to miss.

You'll find the fitting listed as #19 in Fig 9 of the lubrication instructions from TM 5-2420-232-13&P in IETM EM 0330 (Feb 13).

Lube it daily with GAA.

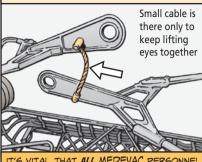








THE ISSUE IS THE SMALL CABLE THAT'S USED TO CONNECT THE TWO LIFTING EYES. IT'S THERE TO KEEP BOTH LIFTING EYES CLOSE TOGETHER SO THEY CAN BE EASILY JOINED BY THE RESCUE HOOK.



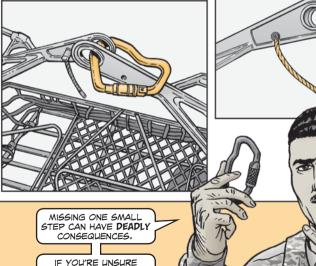
IT'S VITAL THAT ALL MEDEVAC PERSONNEL KNOW THAT THE LIFTING HOOK MUST BE CONNECTED TO BOTH LIFTING EYES ON THE RESCUE BASKET.

IN THE INCIDENT, THE OPERATOR ATTACHED THE LIFTING HOOK ONLY TO THE TOP LIFTING EYE. WHEN THE BASKET WAS LIFTED, THE SMALL CABLE, WHICH IS NOT RATED TO HOLD A LOAD, HELD JUST LONG ENOUGH FOR THE BASKET TO GET HIGH IN THE AIR.

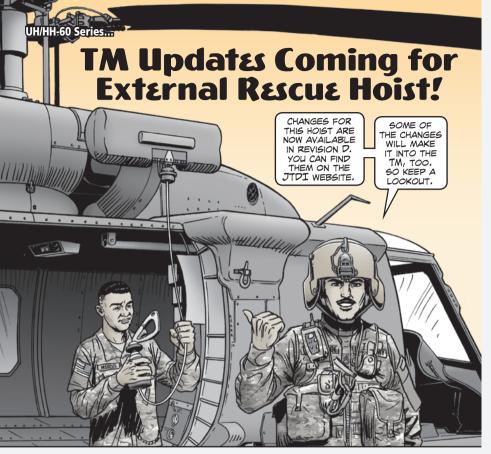
THE CABLE SNAPPED AND THE OCCUPANT WAS DUMPED OUT AND FELL TO HIS DEATH.

TO AVOID ACCIDENTS LIKE THIS, DISCONNECT ONE END OF THE SMALL CABLE AND CONNECT BOTH LIFTING EYES TOGETHER WITH A LOCKING CARABINER. THE CARABINER SERVES THE SAME FUNCTION AS THE SMALL CABLE-KEEPING THE LIFTING EYES CLOSE TOGETHER...

ABOUT A PROCEDURE, ASK YOUR FLIGHT INSTRUCTOR FOR HELP. ...WHILE **REMINDING** THE HOIST OPERATOR TO CONNECT BOTH LIFTING EYES ON THE RESCUE BASKET WITH THE LIFTING HOOK, MAKE SURE TO REMOVE THE CARABINER BEFORE ATTACHING THE HOOK TO BOTH LIFTING EYES.



PS 778 20 SEP 17



PERATORS, IF YOUR H-60 AIRCRAFT HAS THE BREEZE-EASTERN (B-E) EXTERNAL RESCUE HOIST INSTALLED, MAKE A NOTE THAT REVISION D OF THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL (TD-01-00G) IS NOW AVAILABLE, GET IT ON THE JTDI WEBSITE:

https://www.jtdi.mil

YOU CAN ALSO FIND THE REVISION ON THE (B-E) WEBSITE, BUT YOU'LL NEED TO REGISTER FOR ACCESS:

https://portal.breeze-eastern.com

RELEVANT CHANGES WILL APPEAR IN FUTURE UPPATES TO TM 1-1520-237-23 AND -280-23,



YOU MIGHT BE WONDERING WHY THE B-E MANUAL IS FOR REFERENCE ONLY. WHILE IT'S TRUE THAT **ONLY** THE TM SHOULD BE USED FOR MAINTENANCE, THE B-E MANUAL IS USEFUL BECAUSE:

- it contains good information about hoist cables in general and explains cable design, complexity and the factors that affect cable life.
- it clarifies approved
 TM procedures using photos.
- it has a detailed parts section that includes NSNs and part numbers not found in the TM.
 Remember, you'll need to submit a DD Form 1348-6 to order parts that have no NSN.
- it can be used as guidance to generate a Maintenance Engineering Call (MEC), which allows the Aviation Engineering Directorate (AED) to provide approved documents that authorizes requesting units to perform maintenance not found in the TMs. If there's a maintenance procedure you believe can be performed at unit level, but it's not in the TM. get with your LAR and use the original equipment manual to generate the new maintenance instructions. AED must approve the MEC before the maintenance can be performed. but approval is more likely with manufacturer support.

What's Up with Cables?

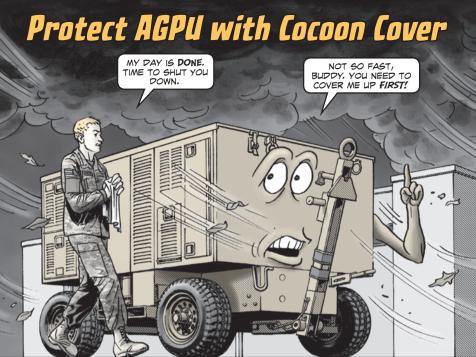
THERE WAS SOME UNDERSTANDABLE CONFUSION IN THE PREVIOUS REVISION DEALING WITH CABLE LUBRICATION.

THE REVISION SEEMED TO INDICATE THE HOIST CABLES HAD TO BE COMPLETELY FREE OF LUBRICATION BECAUSE IT MIGHT INTERFERE WITH THE TENSIONING SYSTEM. YET NEW CABLES FROM SUPPLY COME PRE-LUBRICATED.

THE ACTUAL INTENT WAS THAT NO ADDITIONAL LUBRICATION BE ADDED TO THE CABLES. THE LUBE THAT IS ALREADY ON THE CABLES IS OK.

ALWAYS CHECK YOUR TMS FOR HOIST INFORMATION, AND REMEMBER: REVISION D OF TD-01-006 IS FOR INFORMATIONAL PURPOSES ONLY!

PS 778 22 SEP 17





CARE AN BEEN PAY SE

SO TO
KEEP THE
AGPU GOING
STRONG, THE
HEADSHED IS
PROVIDING A
PROTECTIVE
COVER TO
SHIELD IT
FROM THE
ELEMENTS.

MECHANICS,

YOUR

AIRCRAFT

DEPENDS ON

THE POWER

PROVIDED BY

THE AVIATION

POWER UNIT

(AGPU).

CARE AND MAINTENANCE INSTRUCTIONS HAVEN'T BEEN ADDED TO TM 1-1730-229-13 YET, SO PAY SPECIAL ATTENTION TO THE FOLLOWING:

Warnings

- Always remove the cover before starting the AGPU engine.
- Do not install the cover until after shutdown and when the AGPU is cool to the touch. Heat from the exhaust area could ignite or melt the cover.
- Properly secure the AGPU cover at all times, whether installed or not, to keep it from becoming FOD on the flight line. When removed from the AGPU, store the cover inside the hangar or in a safe area. DO NOT store it inside the AGPU. That blocks air flow, causing heat damage to internal components.
- As an added precaution, use two people to remove and install the cover.

Care and Maintenance

CLEAN THE COVER WITH MILD SOAP AND WATER. HOSE IT OFF WITH WATER AND ALLOW IT TO AIR-DRY COMPLETELY.

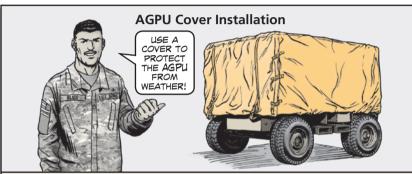
STORING A WET COVER IS AN INVITATION TO MILDEW



REMOVE LARGE SNOW ACCUMULATION AND BE CAREFUL NOT TO DAMAGE THE COVER.

LARGE PUDDLES OF RAINWATER SHOULD BE REMOVED AS WELL.

HOWEVER, SMALL
AMOUNTS OF PUDDLING
FROM RAIN ARE
NORMAL AND WILL
EVAPORATE IN DRY
WEATHER.



FOLLOW THESE STEPS FOR COVER INSTALLATION:

- Inspect the AGPU's exterior surface for sharp edges, bent sheet metal and protruding screws and bolts and repair them. They can snag, tear or wear against the cover.
- Before installing the cover, make sure the AGPU is shut down and cool to the touch, including the exhaust door top. All required PMCS should be completed.
- 3. Orient the cover with each side facing in the proper direction and drape it over the AGPU's top. Pull the sides down evenly all around to prevent binding. Secure all hook-and-pile fasteners and buckles. Secure the lower straps to the four corner tie downs to keep the cover from blowing off the AGPU.

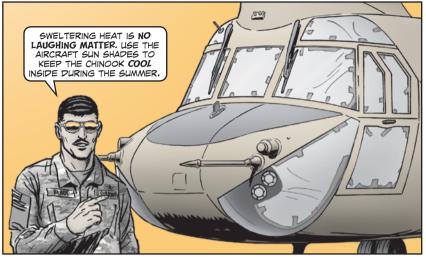
NOTE: A step ladder may be needed, depending on the height of the installers.

4. The area covering the AGPU's master control panel and tow arm can be opened by disconnecting the buckles and separating the hook-and-pile fasteners for access. That allows you to move the AGPU using the self-drive mode without removing the cover. The cover can also remain in place for tow mode.

PRINT THIS ARTICLE FROM THE PS WEBSITE AND KEEP IT HANDY UNTIL THE MAINTENANCE INSTRUCTIONS FOR THE AGPU COVER GET ADDED TO TM 1-1730-229-13.

PS 778 25 SEP 17

Get Some Aircraft Sun Shades



MECHANICS, ON A HOT SUMMER DAY THE SUN CAN HEAT UP THE INSIDE OF A CHINOOK LIKE IRONS IN A FIRE! YOU THINK I LOOK HOT? CHECK OUT THE GUYS INSIDE!

KEEPING THE INTERNAL TEMPERATURE OF YOUR HELICOPTER COOL IS IMPORTANT, ESPECIALLY IF YOU'RE WORKING INSIDE IT.

TO KEEP THOSE TEMPS DOWN, USE SUN SHADES TO BLOCK THE SUN.

THERE ARE **TWO** SUN

NSN 1680-01-661-1895

BRINGS YOU THE COCKPIT SHADES FOR THE:

- left, center and right windshield
- left and right eyebrow window
- left and right chin bubble
- upper and lower, left and right iettison doors.

NSN 1680-01-661-1937

BRINGS SUN SHADES FOR ALL THE CABIN WINDOWS.

THE CHINOOK HEADSHED IS ADDING THESE NSNS TO THE FLYAWAY EQUIPMENT SECTION OF THE PARTS TM...



... SO BE ON THE LOOK OUT UPDATES!

FOR THESE

BOTH KITS

COME WITH

A CASE TO

HOLD THE

SHADES











SEP 17 PS 778 **PS 778** 27 **SEP 17** 26































PS 778 28 SEP 17







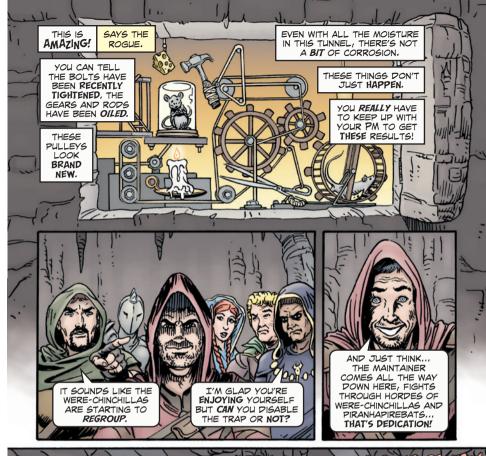








SEP 17























PS 778 33 SEP 17



MOST TROOPS WON'T STOP TO ADMIRE YOUR PREVENTIVE MAINTENANCE EFFORTS.

IT MAY NOT BE PRETTY, BUT PROPER PM IS ALWAYS IMPORTANT.

PERFORM YOUR PM
THE RIGHT WAY AND
YOU'LL GET IMPRESSIVE
RESULTS, LESS
DOWNTIME FOR THE
EQUIPMENT AND MORE
MONEY SAVED...



34



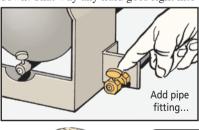






Pages 40-41 of PS 718 (Sep 12) pointed out the problem of draining the HIMARS' hydraulic relief valve. The drain cock points straight out, so when you open it, hydraulic fluid sprays on you. That's quite a mess. It's also a bad idea to get hydraulic fluid on your clothing or skin.

PS recommended installing a 90-degree elbow pipe fitting that points the flow down. That way any fluid goes right into a container.







UNFORTUNATELY,
THE NSN WE GAVE
FOR THE ELBOW
PIPE FITTING NOW
BRINGS A STRAIGHT
ADAPTER, AG
AMCOM LAR
TED REYNOLDS
POINTED OUT.

60 USE NSN 4730-00-842-3162 TO ORDER THE ELBOW PIPE FITTING.



Repairmen should follow the procedures in IETM 9-1055-1646-13&P for removing the old air bleed valve and installing the elbow pipe fitting.

Then HIMARS crews need to make sure to bleed the air system daily, including the launcher hydraulic system bleed valve at the rear of the three vehicle air tanks. Otherwise, air pressure builds up in the reservoir and causes incorrect fluid readings. The pressure can eventually damage the reservoir.

But it's important to first bleed the air system before the hydraulic system. That reduces the force of the hydraulic fluid. Bleed the hydraulic fluid into a container so you can safely dispose of it.



WHEN IT COMES TO YOUR PATRIOT MISSILE SYSTEM, THINK CLEAN AND FRESH.

BECAUSE THE PATRIOT HAS SO MANY ELECTRONIC COMPONENTS, IT NEEDS LOTS OF FRESH AIR TO KEEP THEM FROM OVERHEATING AND

SHUTTING DOWN.

THE INTERIORS OF PATRIOT MAJOR
END ITEMS LIKE THE AN/MPQ-65 RADAR SET AND THE AN/MSQ-132 ENGAGEMENT CONTROL STATION (ECS)
NEED TO BE KEPT

AS CLEAN AS
POSSIBLE
SO DIRT AND SAND
AREN'T SUCKED INTO



 CLEAN FILTERS ARE A MUST FOR THE AN/MPQ-65 AND ECS.

THE PATRIOT OFTEN
OPERATES IN SANDY
AREAS, BLOWING SAND
MEANS THE FILTERS NEED
TO BE BLOWN OUT AT
LEAST DAILY.

A WISE INVESTMENT IS TO BUY TWO SETS OF FILTERS. THAT WAY YOU CAN ROTATE FILTERS, WHICH GIVES YOU TIME TO THOROUGHLY WASH AND DRY ONE SET WITHOUT STOPPING OPERATIONS.



DON'T FORGET THE RADAR'S CLET (COOLER, LIQUID ELECTRON TUBE) NOW HAS FIVE FILTERS AND THEY ALL NEED TO BE KEPT CLEAN, ANY TIME THE CLET RESISTIVITY IS LOW, THOSE FILTERS NEED TO BE CHECKED.

OF COURSE, IT **WON'T** MATTER HOW CLEAN THE FILTERS ARE IF THE RADAR AIR DUCTS THEMSELVES PLUG UP. QUARTERLY, CLEAN THE TRANSMITTER BAY AIR DUCTS LIKE IT SAYS IN TM 9-1430-1601-10-1.

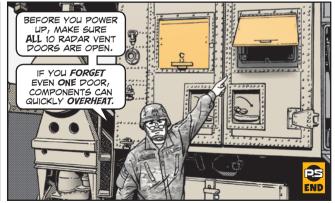
THE PATRIOT HAS **RACKS AND RACKS**OF CIRCUIT CARDS. IF THOSE CARDS
GET **DIRTY**, YOU GET **FAULTS**. AT LEAST
QUARTERLY, BLOW OUT THE CIRCUIT
CARD RACKS WITH LOW-PRESSURE AIR.



KEEP THE
ECS AND RADAR
DOORS SHUT
AS MUCH AS
POSSIBLE SO
SAND AND DIRT
CAN'T GET IN.

VACUUM INSIDE WHENEVER THE FLOOR GETS DIRTY. AND WIPE OFF THE CIRCUIT CARD RACKS.

ANY LOOSE
DIRT WILL
BE SUCKED
UP INTO THE
ELECTRONICS





Dear Editor,

Page 44 of PS 771 (Feb 17) had a great storage case suggestion from CW3 Don Gilmore for protecting all the expensive gages repairmen use.

We have a cheaper suggestion: the M249 machine gun's accessory case, NSN 1005-01-158-2226. It costs only \$61.

We used an exacto knife to cut out places to put the various gages. Then we cut a piece of plywood to separate one side from the other, which keeps the gages from falling out.

The case does a good job protecting the gages and is easy to move from unit to unit.

SGT Robert Mitchell



NOW THAT'S A GOOD WAY TO SAVE MONEY!
UNITS WILL NEED TO
DECIDE WHAT IS THE BEST
CASE FOR THEM BASED
ON HOW LARGE THEIR
GAGE SET IS.

CW3 GILMORE'S WAS QUITE EXTENSIVE AND WOULD NOT FIT IN THE M249 ACCESSORY CASE. BUT THE M249 CASE WOULD WORK GREAT FOR SOMETHING LIKE SMALL ARMS GAGES. FOR LARGER SETS, A CASE WITH SEVERAL LAYERS OF FOAM INSERTS WILL BE NEEDED.

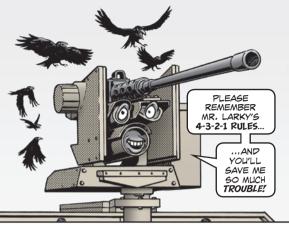
THE INTERNET OFFERS

MANY POSSIBILITIES!

PS 778 38 SEP 17 PS 778 39 SEP 17

M153 CROWS II

REMEMBER 4-3-2-1 TO KEEP CROWS FLYING!



Dear Editor,

From my years working with the M153 CROWS II as both an instructor and as a logistics assistance representative, I offer these tips to keep your CROWS flying:

Remember 4-3-2-1. This rule will save CROWS from so much damage. Before operating CROWS, remember:



4 covers. The environmental, laser range finder (LRF), visible imaging module (VIM) and thermal imaging module (TIM) covers must all be removed.



3 locks. The azimuth and elevation locks must be unlocked and the SSA clamp must be removed. Before you shoot:



Put the ELEVATION
 (EL) transport lock in
 OPERATION



Remove the SSA clamp assembly and stow it in the support equipment baq

covers must

be removed



2 mechanisms. The elevation and azimuth release mechanisms must be engaged with the pins installed. Some Soldiers mistakenly think the pins should be removed.



1 weapon. Only one weapon can be installed correctly on CROWS at a time. If you're switching from an M249 to an M2 for instance, you must remove all the M249 items and install all the nine items needed for the M2.

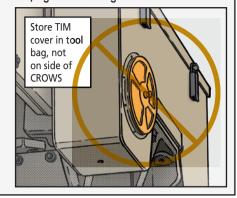
Use the covers and carefully store them when not in use. Most of the time you won't be firing with CROWS and that's when all four covers need to be on. If the CROWS is left uncovered for long periods, water can rust the hydraulic cylinder. Rust can freeze the cocking mechanism and the SSA, too.

Remove the lens covers only if you're going to fire. Very expensive lenses can quickly suffer heavy damage from flying rocks during travel.

When you remove the TIM cover, don't screw it onto the side of CROWS like the TM says. Vibration can cause the cap to work loose and fall off. Instead, store the TIM cover in the CROWS tool bag.

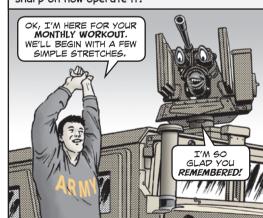
If covers disappear, replace them ASAP with these NSNs:

Cover	NSN		
Environmental	5340-25-160-3971		
LRF	6650-25-160-3989		
VIM	6760-25-150-9879		
TIM	5855-01-584-6138		



Be careful when you remove the environmental cover. The cover's draw string can catch the pin on the azimuth release mechanism and pull it out. You won't realize something's wrong until you hit the road and the CROWS' arm kicks out and the system shuts down.

Operate CROWS at least monthly. That keeps its moving parts moving and operators sharp on how operate it.







PS 778 41 SEP 17





THE FOLKS AT COMET HAVE NOTICED SOME RECURRING MAINTENANCE CONCERNS WITH THE M50 MASK, THE M20 SCPE AND THE M26 DECON. THEY'VE PROVIDED GOOD ADVICE HERE!

Dear Editor,

Through our work on the Command Maintenance Evaluation and Training Team (COMET), we have noticed a couple of chronic CBRN problems:

M50 Mask

Soldiers are using screwdrivers or similar tools to remove the outlet valve cover from their M50 masks. This ruins the mask.

What's the right way? WP 0025 00-2 in t M50 mask's TM 3-4240-542-13&P says to remove the drink coupler from below the fr module assembly, unwrap the external drink from around the front module, and turn the drink tube lever upward halfway so that it clears the outlet valve cover.

Place your thumb at the bottom of the cover below the communications port cover and between the cover and the front module main body. *Gently* lift the outlet valve cover away from the front module main body.

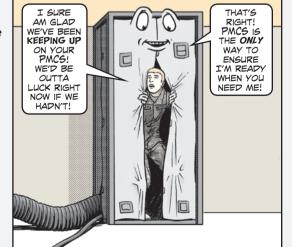
If you have trouble, get help!



Outlet valve cover

M20 SCPE

Don't let equipment sit forgotten. Most posts have the M20 or M20A1 simplified collective protection equipment (SCPE). Too often, no one ever checks it out... until it actually needs to be used. Then it's too late to get things like damaged cords or air ducts repaired. Both the M20 and M20A1 have semiannual PMCS that at the least needs to be done. For the M20, see Page 4-3 in TM 3-4240-288-12&P (May 93). For the M2OA1, see Page 2-3 in TM 3-4240-313-20&P (Jan 11).



M26 Decon

The same goes for the M26 decon. If it sits for months, count on starting and corrosion problems among other things. WP 0008 in TM 3-4230-238-23&P (Nov 09) lists several quarterly PMCS checks, but units also need to start up their M26s every month and let them run. It's not that much trouble and it will mean much less trouble for M26s.

David Whitmire JBLM, WA

Editor's note: Thanks again for sharing your experience, David. The COMET program has provided so much good info to PS over the years.





Dear Editor,

We inspect the CBRN rooms at Ft Carson as part of our work on the Command Evaluation and Training Team (COMET). We find too many M40 masks with canisters that have passed their expiration dates. Of course, that means in a chemical attack the mask may not provide any protection.

Please remind CBRN specialists how often they should change the capisters on M40 and M50 masks.

COMET Ft Carson, CO

CANISTERS ARE **DEFINITELY**SOMETHING **CBRN** SPECIALISTS
NEED TO TRACK, HERE ARE
THE STANDARDS...



YOU'LL NEED YOUR CAC CARD TO LOG IN. FOLLOW THESE RULES ONCE A CANISTER HAS BEEN REMOVED FROM ITS PACKAGING.

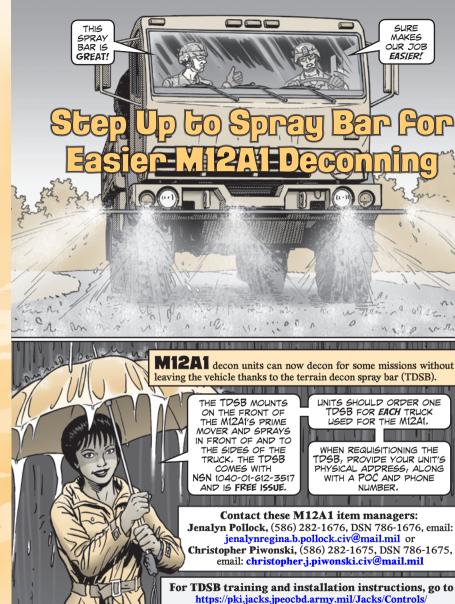
- IF YOU'RE OPERATING WHERE THERE HAVE BEEN NO CHEMICAL ATTACKS AND NO BLOOD AGENT CK (CYANOGEN CHLORIDE) THREAT, CHANGE THE CANISTER ANWALLY.
- IN AN AREA WITH NO CONFIRMED CHEMICAL ATTACKS BUT A CK THREAT IN A CLIMATE THAT'S COLD AND HUMID OR WARM AND MODERATELY HUMID. CHANGE THE CANISTER ANNUALLY.
 - CHANGE IT EVERY 39 WEEKS WHEN IT'S HOT AND DRY.
- CHANGE IT EVERY
 10 WEEKS WHEN IT'S
 HOT AND HUMID.
- FOR UNITS THAT HAVE EXPERIENCED CHEMICAL ATTACKS, CHANGE THE CANISTER EVERY 30 DAYS.

WHENEVER A SOLDIER HAS TROUBLE PRAWING BREATH THROUGH THE CANISTER, IT SHOULD BE CHANGED.

REMEMBER THE MGI CANISTER FOR THE M50/M51 HAS A TIME PATCH. WHEN THE PATCH BEGINS TO TURN BLUE, HUMIDITY HAS DEGRADED THE CANISTER AND IT SHOULD BE REPLACED.



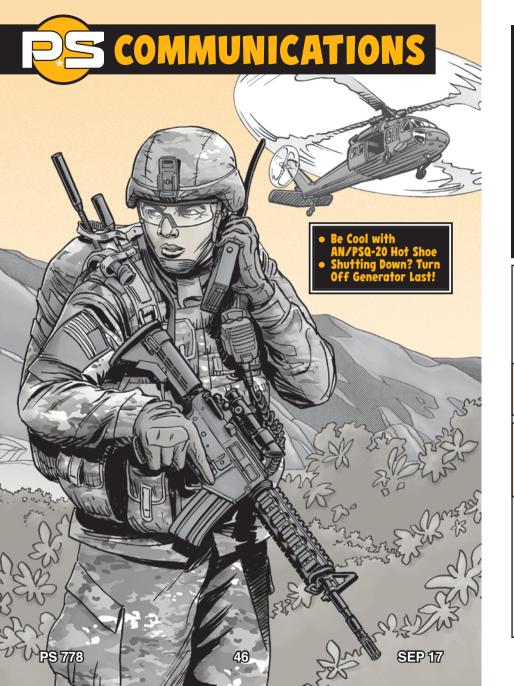
FOR MORE INFORMATION, SEE ATP 3-11.32, MULTI-SERVICE TACTICS, TECHNIQUES AND PROCEDURES FOR CBRN PASSIVE DEFENSE (MAY 16). CLICK THE SEARCH TAB AT: http://armypubs.army.mil



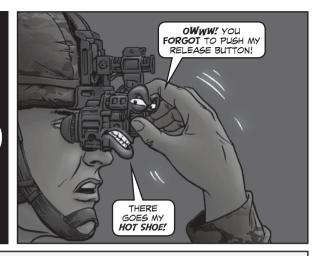
PS778

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fbde8938-78d7-4374-980d-d6e463cb91a2



BE COOL WITH AN/PSQ-20 HOT SHOE



Dear Editor.

During an inspection of our unit's AN/PSQ-20-series enhanced night vision goggles (ENVG), we discovered that many had damaged hot shoes (battery connectors). If the damage is severe enough, the whole front housing has to be replaced at a cost of almost \$2K!

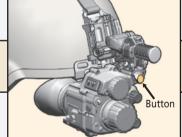
But Soldiers can prevent that expensive damage just by remembering the importance of the release buttons:

- When the AN/PSQ-20 is mounted, remember to press the release button before pivoting the eyepiece away from the helmet mount.
- When removing the battery pack, remember to press the release button while pivoting the battery pack away from the imaging system to remove the hotshoe connector from the receptacle.

Before checking out AN/PSQ-2Os, units need to do refresher training on this. If the training saves one \$2K repair, it will be well worth it.

> PFC Daniel Carmona Schofield Barracks, HI

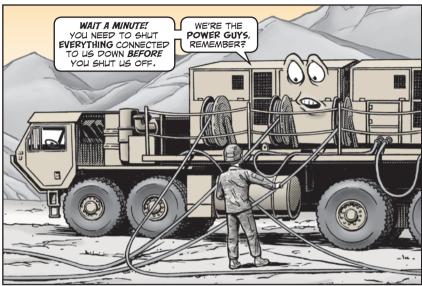
Editor's note: A hot tip to save hot shoes! Good job, Private. This applies to all versions of the AN/PSQ-20.





PS 778 47 SEP 17

Turn Off Generator Last!



After a long, hard day, Soldiers are often in a rush to shut down and get home. But one mistake Soldiers need to avoid is shutting down a generator that's powering other equipment before shutting down the equipment itself.

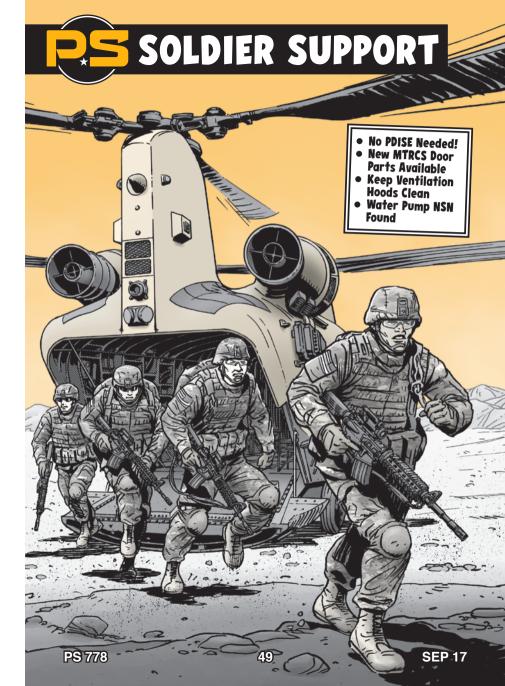
If something like the Patriot missile system's radar suddenly loses power, the radar's software, hard drives, and circuit and video cards could all be damaged. And you could lose any programming work you've done.

Even if the system escapes major damage, it could take hours and hours to get it up and running.

So always make sure you know what equipment is hooked up to a generator and make sure that equipment is properly shut down before you shut down the generator.

> CPT David Anderson SSG Patrick Rayburn Ft Carson, CO





Containerized Batch Laundry...



When it comes to powering your containerized batch laundry (CBL), NSNs 3510-01-527-2209 and -2210 (LIN C28019), less is more, operators.

Some units have been connecting the CBL to a Power Distribution Illumination System, Electrical (PDISE) and then hooking the PDISE to the 100-kW generator. The CBL isn't designed for use with the PDISE and such a hookup will lead to system level power issues, malfunctions and may even damage your equipment.

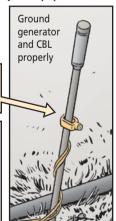
So when powering your CBL, skip the PDISE. A direct connection between the CBL and 100-kW generator is the way to go.

While you're at it, here are a few more important tips:

 Make sure the generator and CBL are properly grounded at the power entry points. You'll find the procedures starting on WP 0007 00-12 of TM 10-3510-226-10 (Aug 05 w/Ch 2, Feb 08).

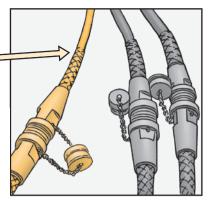
 Ensure all phase indicators are properly illuminated before powering up the system. See WP 0007 00-16 through 00-18 of the -10 TM for details. DRYER 1
PHASE STATUS
PHASE STATUS

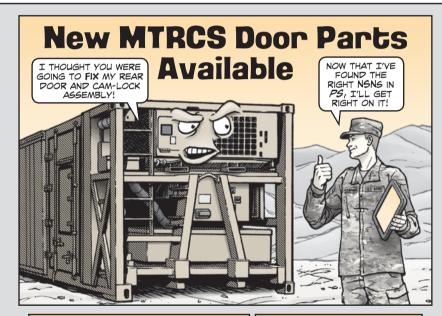
CAUTION
DO NOT OPERATE UNLESS
LIGHTS ARE LIT



 The electrician may have to remove a portion of the external black insulator sleeve on one of the 100A pigtails to make the generator connection. However, each individual conductor (LO, L1, L2 and L3) will keep its insulation.

Only MOS 12R (interior electrician),
 12P (prime power production specialist),
 91D (tactical power generation specialist),
 91J (quartermaster and chemical equipment repairer) or a qualified civilian electrician should connect the CBL to the generator.





HAVING PROBLEMS FINDING DOOR PARTS FOR YOUR MULTI-TEMPERATURE REFRIGERATED CONTAINER SYSTEM (MTRCS)?

MAKE A NOTE OF THESE NSNS UNTIL TM 10-8145-222-23P IS UPPATED:

Item	NSN 4130-	PN	CAGE	Price
Right door inner cam-lock assembly	01-661-4698	141-211-001	6SD02	\$763
Right door outer cam-lock assembly	01-661-4731	141-211-002	6SD02	\$763
Right door entry (includes both inner and out cam-locks)	01-661-4744	141-201-001	6SD02	\$3,000

PS 778 50 SEP 17

Kitchen Equipment... KEEP VENTILATION HOODS CLEAN PACK FOR AND THE THE PACK FOR T



HERE'S A
POP QUIZ
FOR THE FOOD
SERVICE FOLKS:

WHEN WAS THE LAST PMCS ON YOUR KITCHEN VENTILATION HOODS? IF YOU'RE NOT SURE, THAT'S A RED FLAG BECAUSE NORMAL COOKING OPERATIONS PRODUCE AN ALARMING AMOUNT OF GREASE.

WHEN VENTILATION HOODS OR EXHAUSTS **AREN'T WORKING RIGHT**, YOU'LL NOTICE BECAUSE GREASE AND STEAM **AREN'T REMOVED** FROM THE KITCHEN.



DO DAILY SAFETY AND READINESS INSPECTIONS OF KITCHEN FACILITY EQUIPMENT. WHILE GREAT-TASTING GRUB IS ALWAYS NICE, SAFETY AND SANITATION TAKE PRIORITY! THAT MEANS MAKING SURE OLD GREASE IS REMOVED AND HOOD FILTERS ARE CLEAN.

THIS **DEVILISH DUO** BUILDS UP ON SURFACES LIKE:

- countertops
- flatware
- plates, pots and pans
- other food service equipment
- walls and ceilings.

THAT'S A NIGHTMARE FOR THE POOR GLIY WHO FINALLY DOES THAT OVERDUE CLEANING. BUT IT'S ALSO A SERIOUS SANITATION AND SAFETY ISSUE. GREAGE AND PUST BUILDUP ON POWER OUTLETS CAN CAUSE ELECTRICAL FIRES.

IF NEEDED, HOOD FILTERS SHOULD BE PROFESSIONALLY CLEANED BY APPROVED CONTRACTORS.

REPLICE RISK BY KEEPING UP REGULARLY SCHEPULED PMCS, YOUR LOCAL DEPARTMENT OF PUBLIC WORKS (DPW) TECHNICIANS CAN ALSO ASSIST WITH SCHEPULED MAINTENANCE AND CLEANING AS COVERED IN CHAPTER 4 IN TB MED 530, TRI-SERVICE FOOD CODE (APR 14). GET THE PUB HERE:

http://www.apd.army.mil/epubs/DR pubs/DR a/pdf/web/tbmed530.pdf

HERE
ARE SOME
POINTERS TO
KEEP KITCHEN
VENTILATION
HOOD PMCS
ON TRACK:

- Remember to check for visible damage to interior hoods.
- Immediately report any exhaust hood that's not working to your DPW and local fire department.
- Cleaning tips:
 - Include daily, weekly and monthly user cleaning instructions in the dining facility SOP.
 - Follow all manufacturer guidelines.

 Make sure kitchen ventilation hoods are properly cleaned and regularly checked by a certified technician.



 Ensure the exhaust system is inspected and working properly before use.



Containerized Kitchen...

Water Pump NSN Found

Dear Half-Mast,

I have an issue with a water pump that's not working in my containerized kitchen, NSN 7360-01-473-3408. Item 5 in Fig 19 of TM 10-7360-226-13&P (Aug 01, w/Ch 4, Mar 07) shows PN 2088-492-4444 for the water pump. But it doesn't cross to an NSN on FED LOG.

My only option now is to order the whole sink assembly at more than \$3,300! Is there an NSN out there for just the water pump?

WO1 R.J.D.



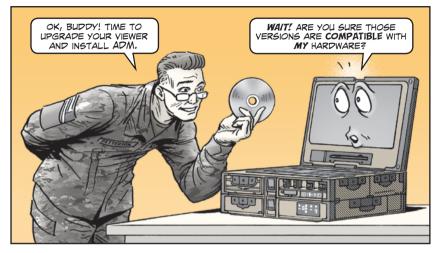
THANKS TO THE GOOD FOLKS AT THE NATICK SOLDIER SYSTEMS CENTER, THERE IS NOW, SIR. ORDER THE WATER PUMP WITH NSN 4320-01-486-3601.

AT \$176, THAT'S
A CONSIDERABLE
SAVINGS. MAKE
A NOTE UNTIL
THE TM CAN BE
UPPATED.

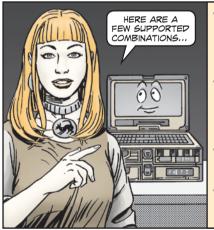
PS 778 53 SEP 17



Which Software Versions on Which Machines?



QUESTIONS ABOUT **WHICH VERSIONS** OF THE ELECTRONIC MAINTENANCE SYSTEM-NEXT GENERATION (EMS-NG) VIEWER AND AUTONOMOUS DIAGNOSTIC MANAGER (ADM) WORK WITH **WHICH SYSTEM?**



- Install Viewer V2.1.11 (and newer) on the MSD-V2 (32-bit Windows 7 AGM) and the MSD-V3 (64-bit Windows 7 AGM).
 This version also works on standard Army workstations (64-bit Windows 7 AGM).
- Use ADM V3.10.6 (and newer) on the MSD-V2 (32-bit Windows 7 AGM) and the MSD-V3 (64-bit Windows 7 AGM). The ADM must be used in conjunction with the Viewer and cannot function alone.
- Viewer V2.1.11X (and newer) is for vehicle platforms running Red Hat Enterprise Linux (RHEL) 6.4 (64-bit).
- Viewer V2.1.9.1 is the last version that can be installed on MSDs or computers running Windows XP.

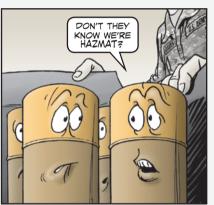
IF YOU HAVE ANY QUESTIONS ABOUT MSD SOFTWARE COMPATIBILITY, EMAIL THE EMS HELP DESK AT:

support@ems-helpdesk.com

PS 778 55 SEP 17









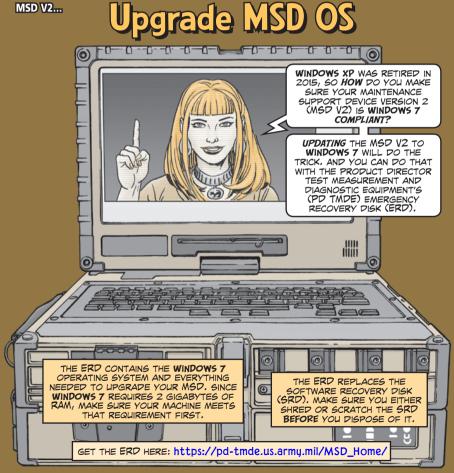
MORE THINGS COUNT AS HAZMAT THAN YOU MIGHT THINK! THE LOGISTICS SUPPORT ACTIVITY'S PACKAGING, STORAGE AND CONTAINERIZATION CENTER (LOGSA PSCC) CAN HELP TAKE THE GUESS WORK OUT OF WHAT COUNTS AS HAZMAT.

PSCC CAN ALSO HELP YOU PREPARE AND SEGREGATE HAZMAT AND ONCE IT'S READY TO SHIP, THEY WILL HELP YOU COMPLETE YOUR PAPERWORK.

EMAIL PSCC AT:

usarmy.tyad.usamc.mbx.pt@mail.mil





PS 778 56 SEP 17















MAKE SURE YOU GET RID OF HAZARDOUS WASTE THE RIGHT WAY! FOR MORE INFORMATION ON THE DLA DISPOSITION SERVICES' HAZARDOUS WASTE DISPOSAL PROGRAM GO TO:

http://www.dla.mil/DispositionServices/Offers/
Disposal/HazardousWaste/TurnInSvs.aspx





PS 778 59 SEP 17



TURN IN UNSERVICEABLE APACHE TRAILING ARMS

You won't get the parts you need unless you turn in your unserviceable parts for repair. Maintenance and overhaul programs won't work unless you turn in all of your trailing arm assemblies, NSN 1620-01-147-4777, PN 1168320-101. Send the item to

Plant 7015/RIC Corpus Christi Army Depot TX 78419

M104 Wolverine DECU Check

Performing a digital electronic control unit (DECU) health check on the M104 Wolverine is shown as Item 16 in TM 5-5420-232-10 (Mar 01, w/Ch 7, Apr 09) as part of Before PMCS. However, the DECU health check should now be done monthly or after every 50 hours of operation, whichever comes first. Make a note until the TM is updated.

M1074A1/M1075A1 PLS Emergency Steering Pressure Sensor NSN

Get a replacement emergency steering pressure sensor for the M1074A1/M1075A1 palletized loading system (PLS) with NSN 5930-01-347-1468. This new, 2-prong sensor replaces the 3-prong sensor, NSN 6695-01-565-5169, shown as Item 57 in Fig 515 of TM 9-2320-319-13&P in IETM EM 0298 (Mar 10).

JLLIS Training

Need to use the Joint Lessons Learned Information System (JLLIS) but don't know how? The Defense Logistics Agency (DLA) can help! DLA offers JLLIS training online. To find out more, call the DLA Center for Lessons Learned at (804) 279-3344.

M1094 FMTV Dump Truck Drive Shaft

Get a new drive shaft assembly for your M1094 FMTV dump truck with NSN 2520-01-545-0421. It replaces NSN 2520-01-472-4497, which is shown as Item 1 in Fig 155 of TM 9-2320-366-24P-1 (Oct 05). That NSN is a terminal item.

Dodge MSD V2 Database Vacuums

Ever get the dreaded "Failed to execute database vacuum" message on your Maintenance Support Device Version 2 (MSD-V2)? Version 2.1.11 of the Electronic Maintenance System – Next Generation (EMS-NG viewer) software fixes that glitch. Download it here:

https://www.tacom.army.mil/ems/products.html

M9 ACE Hydraulic Kit NSN

Get a hydraulic parts kit for your M9 armored combat earthmover with NSN 2590-01-216-8646. Need replacement parts? Check out Figure 228 of TM 5-2350-262-24P (Jun 12) for a complete list.

M915A5 Air Horn NSN

Get a new air horn for your M915A5 tractor truck with NSN 6350-01-578-6222 (PN 22-68626-000). It replaces PN H00293FD, which is shown as Item 7 in Fig 258 of TM 9-2320-426-13&P in IETM EM 0308 (Aug 14).

EMS Downloads On AKO

Electronic Maintenance Software (EMS) downloads for your maintenance support device (MSD) are now available on Army Knowledge Online (AKO):

https://www.us.army.mil/suite/folder/26121198

An AKO account and a Common Access Card (CAC) are required to log in.

FMTV C7 Engine Fuel Hose

Get a new fuel hose for your A1/A1P2 FMTV with NSN 4720-01-553-7158. This hose has a straight connection on one end and a 90-degree connection on the other and is backward compatible on all FMTV engines. NSN 4720-01-469-9896, which is shown as Item 16 in Fig 1032 of TM 9-2320-391-13&P in IETM EM 0195 (Aug 15), brings a hose with two straight ends and can't be connected to the fuel transfer pump on C7 engines.

MEP-803A 10-kW Generator In-line Fuel Filter NSN

Get the in-line fuel filter for your MEP-803A 10-kW generator with NSN 2910-01-553-6571 (PN 00-24000, CAGE 30554). This filter has two threaded connections. It replaces NSN 2940-01-365-6535, which is shown as Item 21 in Fig 17 of TM 9-6115-642-24P (Oct 96). That filter has one slip-on and one threaded connection.

M1088A1P2 Brake Plunger Seal

GET A NEW BRAKE PLUNGER SEAL FOR YOUR M1088AIP2 FMTV WITH NSN 5330-01-292-9573. IT REPLACES NON 5330-01-350-5385, WHICH IS SHOWN AS ITEM 10 IN FIG 1128 OF TM 9-2320-333-138P IN IETM EM 0294 (JUN 15). THAT NON IS A TERMINAL ITEM.



Would You Stake Your Life on the Condition of Your Equipment?

PS 778 61 SEP 17

