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SMALL ARMS

M4/M4A1 Carbine: Use UOC for Parts Ordering

M240 Machine Gun, M16-Series Rifle,

TB 43-PS-792, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for al

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

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Or email:

usarmy.redstone.logsa.mbx.psmag@mail.mil

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By Order of the Secretary of the Army:

Connie's Post Scripts

MARK A. MILLEY

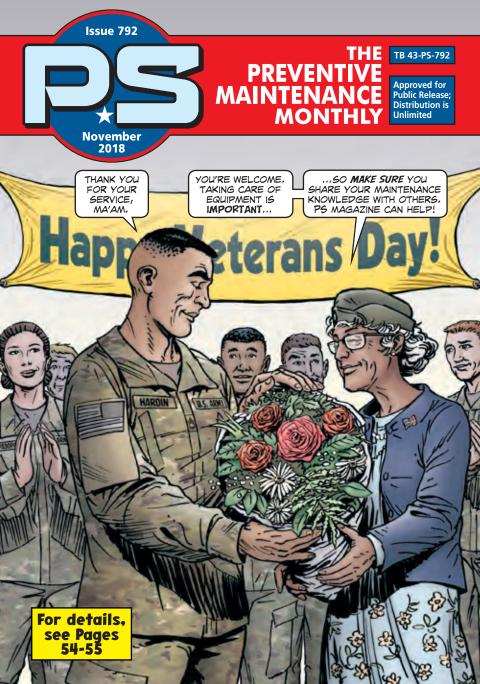
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General, United States Army Chief of Staff

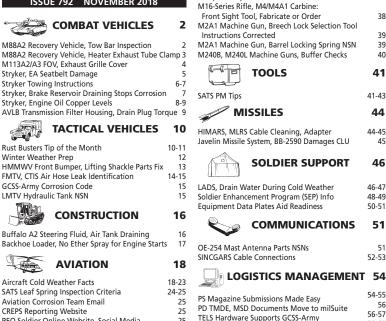
MARKE AVERILL Acting Administrative Assistant to the Secretary of the Army 1822951





PREVENTIVE MAINTENANCE MONTHLY

ISSUE 792 NOVEMBER 2018



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PEO Soldier Online Website, Social Media

Moonbreaker, Part 2

RO-7B Shadow. Protection from the Elements

Or email:

usarmy.redstone.logsa.mbx.psmag@mail.mil

https://www.logsa.army.mil/psmag/pshome.cfm

Packaging Publications

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SMALL ARMS

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By Order of the Secretary of the Army: MARK A. MILLEY PS 792



PILOTS **ESPECIALLY** FORE-WHEN IT COMES WARNED TO FLYING IS FORE-AIRCRAFT IN AN ARMED! ENVIRONMENT WITH BAD VISIBILITY.

THERE'S A FLYING CONDITION THAT EVERY PILOT SHOULD BE READY FOR, IT'S CALLED **DEGRADED VISUAL** ENVIRONMENT (DVE) AND IT'S AN AVIATION KILLER

DVE CAN TAKE OUT AN AIRCRAFT AND ITS OCCUPANTS IF IT'S NOT TAKEN SERIOUSLY, NO DOUBT EVERY PILOT EITHER HAS OR WILL EXPERIENCE THIS CONDITION WHEN FLYING AIRCRAFT,

> DVE ISN'T SOMETHING YOU WANT TO PLAY AROUND WITH, IT LURKS IN DUSTY AND SANDY CONDITIONS THAT CAUSE DISORIENTATION, LOW LIGHT, POOR CONTRAST AND LIMITED VISIBILITY. THAT MEANS YOU CAN'T SEE WHERE YOU'RE FLYING!

THE BEST DEFENSE AGAINST DVE IS PREPARATION, THOROUGH PLANNING AND TOUGH, REALISTIC TRAINING THAT'S DONE TO STANDARD.

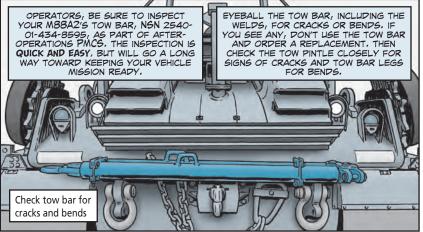
> THAT'S WHAT IT TAKES TO MANAGE THE RISKS.

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NOV₁₈

TOW BAR PM KEEPS RECOVERY ON TRACK

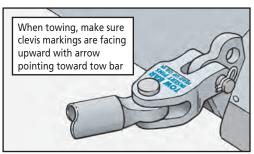




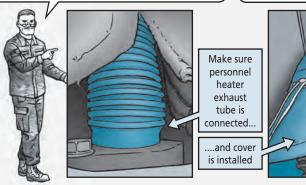
MAKE SURE THE PINTLE WORKS PROPERLY. IF IT LOOKS TOO WORN TO USE, ORDER A NEW PINTLE. IF IN DOUBT, ORDER A NEW ONE.

BETTER SAFE THAN SORRY!

ALSO, WHEN ATTACHING THE MI-SERIES TANK TOW FOOT CLEVIS, BE SURE THE CLEVIS LETTERING IS ON TOP WITH THE ARROW (TOW TOW THE ARROW TOWARD THE TOW BAR.



M88A2 Recovery Vehicle... PMCS IS DONE FOR THE DAY, PAL NOT IF YA HAVEN'T CHECKED MY PERSONNEL HEATER EXHAUST TUBE, IT'S NOT! OPERATORS, MAKE SURE THE HEATER EXHAUST IF IT ISN'T, A FIRE COULD BREAK TUBE RUNNING BY YOUR M88A2'S AUXILIARY OUT EITHER DURING OR AFTER POWER UNIT (APU) IS PROPERLY CONNECTED. USING THE PERSONNEL HEATER.



WHILE
YOU'RE AT IT,
MAKE SURE
THE HEATER
EXHAUST TUBE'S
THERMAL
INSULATION
COVER IS
SERVICEABLE
AND IN PLACE.

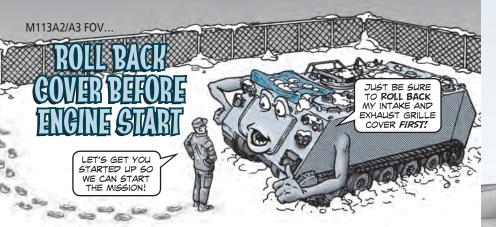
RUNNING THE
HEATER WITHOUT
THE COVER
INSTALLED
CREATES A FIRE
HAZARD. REPLACE
A MISSING OR
DAMAGED COVER
WITH NSN 254001-533-3144.



ALSO, BE SURE TO KEEP THE BACK PECK AREA WHERE THE EXHAUST COMES OUT FREE OF TRAGH ANP ANYTHING ELSE THAT'S FLAMMABLE.

PS 792 3 NOV 18 Click here for a copy of this article to save or email.

PS 792 2 NOV 18
Click here for a copy of this article to save or email.



SOME DRIVERS LEAVE THE CANVAS COVER FOR THE MISA2/A3 INTAKE AND EXHAUST GRILLES IN PLACE WHEN STARTING THE ENGINE BECAUSE THEY THINK THAT'LL HELP THE ENGINE WARM UP FASTER WHEN IT'S COLD OUTSIDE.





THE COVER
IS MEANT TO
KEEP ICE, SNOW
AND OTHER
PEBRIS OUT
OF THE ENGINE
COMPARTMENT
WHEN THE
VEHICLE IS
PARKED.

LEAVING THE COVER IN PLACE *HEATS* THE ENGINE TOO FAST. IT CAN EVEN BURN THE ENGINE UP. THAT'LL LAND YOU IN HOT WATER WITH YOUR COMMANDER AND COST YOUR UNIT SOME SERIOUS BUCKS.

ALSO

FUMES FROM THE ENGINE COMPARTMENT THAT WOULD NORMALLY BE VENTED THROUGH THE EXHALST GRILLE ARE FORCED INTO THE DRIVER AND CREW COMPARTMENTS.

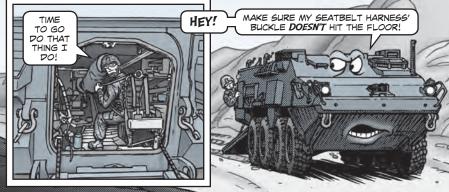
THAT CAN BE DEADLY.

ALWAYS ROLL THE COVER BACK FROM THE EXHAUST AND INTAKE GRILLES BEFORE STARTING YOUR VEHICLE.



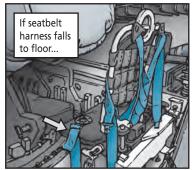
PS 792 4 NOV 18 Click here for a copy of this article to save or email. M1129 MCV, M1133 MEV, M1134 ATGM Strykers...

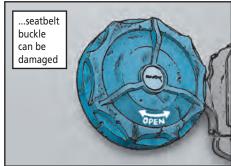
Buckle Down on EA Seatbelt Damage



Crewmen, your Stryker's energy attenuating (EA) seats can save you from serious injury—or worse—during a blast from a mine or IED. But the EA seat, NSN 2540-01-633-6805, can't do its job if the four-point seatbelt, NSN 2540-01-671-1897, is damaged.

When exiting your vehicle through the lowered ramp door, be careful not to let the seatbelt harness fall to the floor. That can damage the seatbelt buckle.

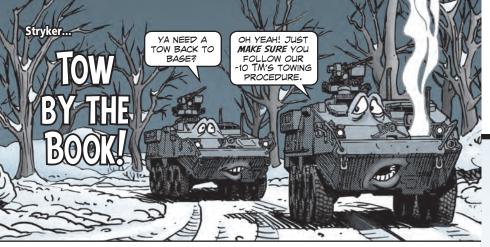




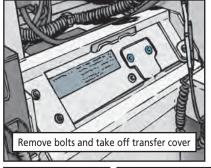
The buckle can also fall into the crack between the ramp door and the vehicle hull. When the ramp closes...CRUNCH! Not only is the buckle damaged but maybe even the ramp door or hull.

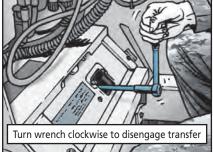
So don't get in such a hurry that you neglect to keep those seatbelt buckles safe from damage. If you do, your Stryker could end up NMC!

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REWMEN, IT'S VITAL THAT YOU CHECK OUT YOUR STRYKER'S -10 TM BEFORE TOWING TO ENSURE YOU DO IT THE RIGHT WAY. DOING IT WRONG RESULTS IN A DAMAGED VEHICLE. IT COULD EVEN CATCH FIRE! JUST LIKE IT SAYS IN THE TM, THE BEST WAY TO FLAT-TOW A DISABLED STRYKER IS WITH ANOTHER STRYKER USING A TOW BAR.





ALWAYS BE SURE TO **DISCONNECT** THE TRANSFER CASE AND **RELEASE** THE PARKING BRAKE ON THE DISABLED VEHICLE **BEFORE** TOWNING



YOU CAN VERIFY THAT THE TRANSFER CASE IS
PISCONNECTED BY REMOVING THE #4 ENGINE ACCESS
PANEL. THEN USE YOUR HAND TO ROTATE THE DRIVE
SHAFT TO MAKE SURE IT SPING FREELY WITHOUT BINDING.
IF THE SHAFT BINDS AND DOESN'T SPIN FREELY, TRY
AGAIN TO DISENGAGE THE TRANSFER CASE.

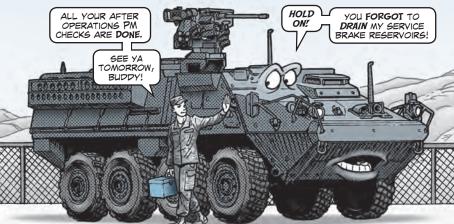
YOU NEED TO FOLLOW ALL OF THE TOWING PROCEDURES EXACTLY AS THEY'RE SHOWN IN THE -10 TM. THAT WAY YOU CAN'T GO WRONG!

PS 792 6 NOV 18 Click here for a copy of these articles to save or email. AND REMEMBER THAT IF A STRYKER IS SO DAMAGED IT CAN'T BE FLAT-TOWED, MECHANICS SHOULDN'T USE A HEMTT WRECKER TO TOW WITH THE STRYKER'S FRONT END SUSPENDED.

NOT ONLY WILL TOWING A STRYKER WITH THE FRONT END SUSPENDED DAMAGE THE REAR SUSPENSION AND HUBS ON THE STRYKER, BUT IT CAN ALSO BREAK THE HEMTT'S LIFT CYLINDERS. INSTEAD, CALL FOR AN M916 TRACTOR TRUCK WITH AN M870A1 SEMITRAILER.

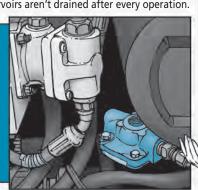
FOR MORE INFORMATION ON STRYKER TOWING,
CHECK OUT TACOM MAINTENANCE ACTION MESSAGE #18-007 AT:
https://tulsa.tacom.army.mil/Maintenance/message.cfm?id=MA18-007.html

Stryker... PUT BRAKES ON VALVE CORROSION



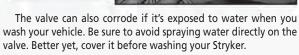
Crewmen, your Stryker's parking brake can fail if the front and rear service brake reservoirs aren't drained after every operation.

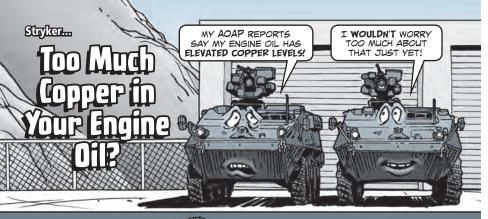
If you don't drain the reservoirs, moisture gets inside the parking brake valve and corrodes it. So make draining them a regular part of after-operations PMCS. The -10 TM shows you how to do it right.



BRAKE VALVE CORRODES
WHEN WET OR
IF SERVICE BRAKE
RESERVOIRS AREN'T
PRAINED AFTER
OPERATIONS.

THE PARKING



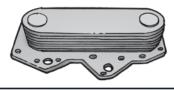


I GOT THE
RESULTS BACK
FROM MY
STRYKER'S ARMY
OIL ANALYSIS
PROGRAM (AOAP)
SAMPLE.

IT SHOWS THAT
THE ENGINE OIL
HAS ELEVATED
LEVELS OF
COPPER. SHOULD
I BE WORRIED?



NOT NECESSARILY! AN AOAP ANALYSIS THAT SAYS ELEVATED COPPER LEVELS IN YOUR STRYKER'S ENGINE OIL "EXCEEDS WEAR METAL LIMITS" ISN'T ALWAY'S REASON FOR CONCERN. A NEW ENGINE OIL COOLLER COULD BE TO BLAME.



DEPENDING ON THE CIRCUMSTANCES, THERE MIGHT ACTUALLY BE LITTLE DANGER OF EXCESSIVE WEAR AND/ OR COMPONENT FAILURE. BUT YOU NEED TO UNDERSTAND WHY ELEVATED COPPER LEVELS SOMETIMES HAPPEN BEFORE YOU SUBMIT ANOTHER-MAYBE UNNEEDED-AOAP SAMPLE.



WITH A **NEW** OIL COOLER, COPPER DISSOLVES FROM THE SURFACE OF THE OIL COOLER TUBES AND LEACHES INTO THE ENGINE OIL.

AS THE OIL COOLER BREAKS IN, A PROTECTIVE COATING EVENTUALLY FORMS ON THE COPPER TUBES AND THE LEACHING STOPS.

THE ENGINE ISN'T DAMAGED AND THE ELEVATED COPPER LEVELS GRADUALLY DECREASE.

COPPER LEACHING FROM THE OIL COOLER INTO THE ENGINE OIL TYPICALLY HAPPENS WITH NEW ENGINES WITHIN THE FIRST TWO OIL CHANGE INTERVALS.

LEACHING CAN ALSO HAPPEN IN USED ENGINES...

- if the engine is overdue for an oil change.
- that have had a new oil cooler installed.
- if a different type of oil is used.

SO WHEN SHOULD YOU BE CONCERNED ABOUT ELEVATED COPPER LEVELS IN YOUR STRYKER'S ENGINE OIL? IF YOUR STRYKER IS NEW OR HAS A NEW ENGINE AND IT GETS AN AOAP REPORT INDICATING INCREASED COPPER LEVELS, COPPER LEACHING FROM THE OIL COOLER IS LIKELY TO BLAME.

YOUR STRYKER'S ENGINE IS PROBABLY OK AND YOU CAN CONTINUE SUBMITING AOAP SAMPLES EVERY SIX MONTHS OR 3,000 MILES, WHICHEVER COMES FIRST.



HOWEVER, IF THE VEHICLE OR ENGINE IS USED AND HAS EVER OVERHEATED, THE INCREASED LEVELS OF COPPER COULD BE CAUSED BY WORN BRONZE BUSHINGS AND BEARINGS OR A COMBINATION OF BOTH.

THAT'S WHEN YOU NEED TO BE CONCERNED ABOUT ENGINE DAMAGE AND FURTHER AOAP SAMPLING.



CHECK OUT P6 772 FOR INFORMATION ABOUT STRYKERS AND THE AOAP PROGRAM: https://www.logsa.army.mil/web2/archive/PS2017/772/772-06-08.pdf

TORQUE AWAY TRANSMISSION WOES



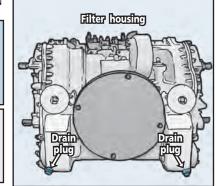
MECHANICS, IT'S VERY IMPORTANT TO APPLY JUST THE RIGHT AMOUNT OF TORQUE TO THE FILTER HOUSING AND PRAIN PLUG BOLTS ON THE AVLB'S TRANSMISSION.

TOO MUCH TORQUE
CAN CALLSE CRACKS IN
THE TRANSMISSION'S
ALLIMINUM FILTER
HOUSING AND
STRIP THE PRAIN
PLUG BOLT HOLE
THREADS.

AVOID COSTLY
PAMAGE AND KEEP
COMBAT REAPINESS
HIGH BY KEEPING
THOSE BOLTS
TORQUED TO
26-32 LB-FT.

THAT CAN LEAD TO CATASTROPHIC TRANSMISSION FAILURE. A NEW TRANSMISSION WILL COST YOUR UNIT NEARLY \$75,000!

WHILE YOU'RE AT IT, MAKE SURE THE HOLES ARE FREE OF PEBRIS BEFORE TIGHTENING THE BOLTS. Over-tightening bolts can crack transmission filter housing and strip drain plug bolt holes



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RUST BUSTERS TIP OF HE MONTH















Corrosion Prevention Tools Shopping List

Surface Prep Tools

Lube oil/grease Power grinder Scraping knife Shop vacuum Shop vacuum accessories Wire brush

Personal Protective Equipment

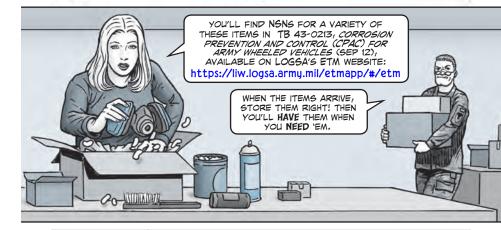
Coveralls Ear plugs Face shield Gloves Goggles/eye protection Respirator & cartridge

CPC Application

Applicator brush Corrosion inhibiting compounds (CIC) Petrolatum Pressurized spray applicator Rust inhibiting compound Sealant Solid film lubricant Thread compound

Touch-Up Painting

Paint brush Wet film gauge



QUESTIONS?

CONTACT TACOM'S CORROSION PREVENTION AND CONTROL OFFICE: usarmy.detroit.tacom.mbx.ilsc-corrosion@mail.mil



WINTER WEATHER REQUIRES
MORE PREPARATION AND
MAINTENANCE FOR VEHICLES.

PS 792

PART OF THAT PREPARATION SHOULD INCLUDE WINTER SURVIVABILITY TIPS IN CASE OF EMERGENCIES!

OF COURSE, THE -10 TM IS YOUR FIRST STOP.
THE SECTION ON OPERATION UNDER UNUSUAL CONDITIONS HAS INFO ABOUT STARTING, OPERATING AND MAINTAINING VEHICLES IN COLD WEATHER.

A **VIDEO**, PRODUCED BY THE U.S. ARMY COMBAT READINESS CENTER, IS A GREAT RESOURCE, TOO. IT SHOWS WHAT TO DO IF YOU'RE **STRANDED IN A VEHICLE** DURING WINTER.

PRACTICAL TIPS LIKE THESE COULD SAVE YOUR LIFE:

- Raise the hood and display a trouble sign, like a bright cloth tied to the side mirror or fastened at the top of a door.
- Make sure snow drifts or debris don't block the tail pipe.
- Stay in the vehicle unless you can see help within 100 yards.
- Crank the vehicle once every hour and run the heater about 10 minutes.

WATCH THE VIDEO HERE:
https://www.dvidshub.net/video/413415/stranded-vehicle
LEARN ABOUT APPITIONAL WINTER PRIVING TIPS AT:
https://safety.army.mil

NOV 18

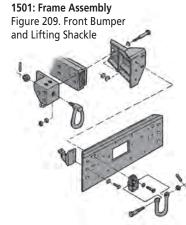
k here for a copy of this article to save or email.



AN UPPATE TO THE HMMWV PARTS LIST IS ON THE WAY, THANKS TO AN ALERT PS MAGAZINE READER WHO NOTICED A **DISCREPANCY** BETWEEN PART NUMBERS AND FIGURES.

TACOM SAYS ITEMS 6 THROUGH 15 IN FIG 209 OF TM 9-2320-387-13&P IN IETM EM 0323 (MAR 14) ARENT IN SYNCH WITH THE FIGURE CALL-OUTS. THESE ITEMS WILL BE RENUMBERED AS SHOWN HERE TO CORRESPOND WITH THE PROPER CALL-OUTS AT THE NEXT TM UPDATE.

IN THE MEANTIME, HERE'S HOW THE PARTS LIST SHOULD READ:



ALE GUIS.					
	Item Number	Item	NSN		
	6	Frame section LH	2510-01-358-1178		
	6	Frame section RH	2510-01-357-8789		
	7	Self-locking nut	5310-01-548-1848		
	8	Flat washer	5310-01-121-1703		
	9	Bumper, front	2540-01-412-8610		
	10	Pin cotter	5315-00-012-0123		
	11	Plain nut	5310-01-569-6094		
	12	Shackle	4030-01-316-1551		
	13	Screw cap	5305-01-264-3602		
	14	Screw cap	5305-00-071-2071		
	15	Bracket mount	5340-01-106-2516		

PS 792 13 NOV 18 Click here for a copy of this article to save or email.

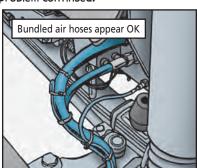


Dear Editor

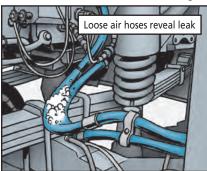
We recently had a tire deflation problem with the two front tires on an FMTV while the electronic control unit (ECU) showed five flashing lights. We swapped out both tires with spares, but the tires continued to deflate.

We followed the troubleshooting guide in the TM and replaced all the central tire inflation system (CTIS) components, including the quick release valve (QRV), wheel valve, pressure switch, pneumatic control unit (PCU), ECU, CTIS seals and wiring harness.

Then we sprayed soapy water on all the supply lines and tire hoses to look for an air leak. We found no signs of a leak, but the deflation problem continued.



Finally, I decided to cut the zip ties that secure the Front air hoses together in a tight bundle. This allowed them to unwind and hang free. Then I sprayed soapy water on the hoses again.

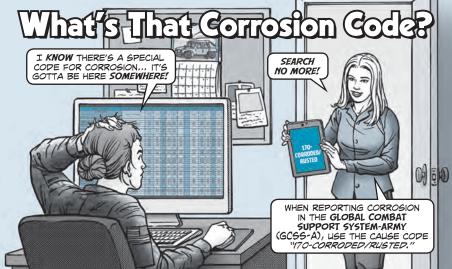


That did the trick! The soapy water bubbled up and made the leaks easy to detect. We replaced the front air hoses, and that fixed the deflation problem.

The moral of the story: when CTIS air hoses are tightly banded together, you can't always see or detect air leaks. Before you start replacing CTIS components, separate the tightly banded air hoses and check for air leaks first. This could save a lot of time and costly replacements!

Ricardo S. Iriarte Annville, PA

Editor's note: Many thanks, Ricardo. Soldiers, don't forget to re-secure the lines after the repair.





USE THE CORROSION CODE
"170-CORRODED/RUSTED"
REGARDLESS OF WHETHER
YOU'RE REPORTING MANUALLY
WITH DA FORM 2404 OR ONLINE
WITH DA FORM 5988-E.

ALL MAINTENANCE DEFICIENCIES, INCLUDING CORROSION, MUST BE REPORTED IN GCSS-A, FOLLOWING THE GUIDANCE IN DA PAM 750-8.

THAT WAY, YOUR CORROSION REPORT WILL GET RECORDED CORRECTLY AND PLAY A ROLE IN DEVELOPING FUTURE MAINTENANCE DECISIONS AND BUDGETS.

LMTV Hydraulic Tank NSN

Get a new hydraulic tank for the 2 ¹/₂-ton LMTV with NSN 4320-01-645-5255. This is the correct NSN for *all* FMTVs, but Item 13 in Fig 125 of TM 9-2320-333-13&P (Jun 15) lists NSN 4320-01-504-5020 for the LMTV. That's wrong, so make a note until the TM is updated.

PS 792 15 NOV 18 Click here for a copy of these articles to save or email.



BEFORE AND AFTER THE DAY'S RUN, KEEP THESE CHECKS IN MIND TO KEEP YOUR BUFFALO MISSION-READY:

Fluid Warm Up

IN COLD WEATHER, LET THE POWER STEERING FLUID WARM UP BEFORE MOVING THE STEERING WHEEL (ABOUT 30 MINUTES).

FOLLOW THE CAUTION PLACARD ON THE INSTRUMENT DO NOT FORCE THE STEERING WHEEL TO TURN WHILE VEHICLE IS STATIONARY.

THAT WAY YOU'LL AVOID POWER STEERING LEAKS.

Easy Pull on Cable

YOU'VE GOT TO DRAIN THE AIR TANKS ON YOUR BUFFALO EVERY DAY AFTER OPERATION. IF YOU FORGET, MOISTURE BUILDS UP AND CREATES CORROSION THAT PLUGS UP THE ENTIRE AIR SYSTEM, INCLUDING BRAKE VALVES AND CYLINDERS. THAT CAN ALSO LEAD TO BRAKE FAILURE.

SO DRAIN WATER FROM THE PRIMARY AND SECONDARY AIR TANKS ON THE DRIVER'S SIDE OF THE VEHICLE.

THE TANK HAS THREE PULL CABLES. JUST DON'T YANK ON THEM. THE ADDED STRESS WILL EVENTUALLY BREAK A CABLE.

PULL ON THE CABLES JUST UNTIL YOU HEAR AIR COME OUT. THAT'S FAR ENOUGH, AND MAKE SURE YOU PULL STRAIGHT OUT ON THE CABLES, YANKING OR PULLING THE CABLES SIDEWAYS WEARS OUT THE PROTECTIVE SLEEVE AND EXPOSES THE METAL STRANDS.

EVENTUALLY, THE CABLE DETERIORATES AND BREAKS, ESPECIALLY IF IT'S YANKED ON EVERY DAY DURING CHECKS AND SERVICES!





AKE A QUICK WALK THROUGH ANY ENGINEERING BATTALION AND YOU'LL SEE LOTS OF CONSTRUCTION EQUIPMENT WITH BUILT-IN STARTING AIDS. THESE AIDS HELP VEHICLE ENGINES TURN OVER IN

COLD WEATHER.

Backhoe Loader...

STAY

AWAY

from

Ether

Spray!

BUT IF YOU'RE LOOKING FOR ONE OF THESE STARTING AIDS ON THE BACKHOE LOADER (BHL), YOU'RE OUTTA LUCK. THERE ISN'T ONE.

JONES! WHAT

HAPPENED TO YOU?

UNFORTUNATELY, SOME OPERATORS THINK IT'S OK TO GRAB A CAN OF ETHER SPRAY TO CREATE THEIR OWN.

NOW, SAY IT ONCE, THEN SAY IT OVER AND OVER AGAIN:

JUST FOUND OUT THE HARD WAY THAT YOU'RE NOT S'POSED TO USE SPRAY CAN ETHER TO START A BACKHOE LOADER!



DON'T EVEN THINK ABOUT HEADING BACK TO THE WORKBENCH, GRABBING A CAN OF ETHER SPRAY, AND GIVING IT A GO! SPRAYING ETHER IN YOUR BHL'S ENGINE WILL CRACK PISTONS, BEND RODS AND RUIN HEADS.

Personnel Risk

TO BRING THE POINT HOME, A WARNING DECAL IS MOUNTED ON THE STREET SIDE OF THE BHL:

EXPLOSION HAZARD -DO NOT USE ETHER

THERE'S AN IMPORTANT REASON FOR THE DECAL. THE BHL'S ENGINE MANIFOLD INTAKE HEATER IS JUST ON THE OTHER SIDE, THAT HEATER GETS OVEN HOT, SO A SPRAY OF ETHER WILL IGNITE AND TRAVEL RIGHT BACK TO THE ETHER CAN. THAT CREATES AN EXPLOSION THAT CAN CAUSE SEVERE BURNS, SCARS, BLINDNESS OR EVEN DEATH!

SO IF YOU'RE HAVING PROBLEMS STARTING YOUR BHL, KEEP YOUR HANDS OFF THE SPRAY CAN ETHER AND GRAB A MECHANIC INSTEAD.



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IN BITTER COLD, MAKE SURE YOU WORK IN SHIFTS AND USE THE BUDDY SYSTEM.

IN SUB-ZERO TEMPERATURES IS

CRITICAL TO READINESS AND KEEPING

MAKE SURE YOUR UNIT'S

IF THAT CAN'T BE DONE

A SHELTER WILL WORK

FOR EQUIPMENT FACED

WITH EXTENDED TIME OUT

IN THE COLD.

SOP FOR COLD WEATHER

OPERATIONS IS CURRENT.

AIRCRAFT FLYING ...





BREAK THE MAINTENANCE UP INTO SMALL PERIODS WITH ONE PERSON WORKING WHILE ANOTHER WARMS UP IN A HANGAR OR SHELTER.

MOVING AIRCRAFT

INSIDE THE HANGAR

FOR MAINTENANCE

IS BEST.

IF YOU USE A TEMPORARY SHELTER MADE OUT OF CANVAS OR A PARACHUTE, USE A HEATER TO WARM IT.

BUT MAKE SURE YOU FOLLOW ALL SAFETY REGULATIONS TO PREVENT A FIRE OR CARBON MONOXIDE POISONING.



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Fact 1: Cold Fuel



EVEN AFTER TOPPING OFF, THERE WILL BE A GAP BETWEEN THE TOP OF THE TANK AND THE FLIEL. THAT'S WHERE AIR CONDENSES AND WATER MIXES WITH YOUR FLIEL. SO WHEN YOU TAKE A FLIEL SAMPLE EACH DAY, DRAIN ENOUGH FLIEL TO GET RID OF ALL THE WATER.

ALWAYS DRAIN FROM THE LOWEST POINT OF THE FUEL CELL. WATER IS HEAVIER THAN FUEL ACCUMULATE ON THE BOTTOM.

IF REFUELING IS PONE **OUTSIDE** IN **FREEZING**TEMPERATURES, **ALWAYS** CHECK THE AIRCRAFT'S
FUEL LEVEL **BEFORE** MOVING IT INSIDE.

FUEL **EXPANDS** IN **WARMER** TEMPERATURES, SO TAKING A FULL AIRCRAFT INSIDE COULD GIVE YOU A FUEL SPILL TO CLEAN UP.





BE EXTREMELY CAREFUL ABOUT STATIC ELECTRICITY DURING REFUELING.

STATIC ELECTRICITY INCREASES WHEN THE TEMPERATURE AND HUMIDITY DROP.

COMBINED, THEY CAN FIRE UP YOUR WINTER REAL FAST!

WHEN DEALING WITH COLD FUEL AND AIRCRAFT, KEEP THESE GROUNDING POINTS IN MIND: 1. aircraft to ground 2. aircraft to fuel tanker 3. aircraft to fuel nozzle BEFORE REMOVING THE CAP!



IT'S ALSO IMPORTANT TO REINSTALL THE FUEL CAP BEFORE REMOVING THE GROUND WIRE FROM AN AIRCRAFT.

OTHERWISE, SPARKS
CAN SHOOT BETWEEN
THE GROUNDING CABLE
AND THE AIRCRAFT.





FUEL SPILLS CAN CREATE ENVIRONMENTAL HAZARDS, BUT SPILLING COLD FUEL ON BARE SKIN CAN LEAD TO INSTANT FROSTBITE.





NOTHING IS IMMUNE TO COLD, NOT EVEN OIL AND GREAGE.

AS THE MERCURY DIPS, OIL GETS THICKER AND GREASE GELS.

USING THE
RIGHT OIL, LUBE
AND GREASE
MINIMIZES THOSE
PROBLEMS.

FOR EXAMPLE, WHEN SERVICING A STONE COLP AIRCRAFT'S OIL SYSTEMS, NEVER FILL IT TO THE BRIM. THAT'S BECAUSE OIL EXPANDS AS IT HEATS UP AND YOU'LL BE CLEANING UP AN OVERFLOW MESS.

BECAUSE OIL LEAKS ARE A BIGGER PROBLEM IN THE WINTER, REGULARLY EYEBALL CONNECTIONS, JOINTS AND SEALS.

Fact 3: Cold Seals



OLD MAN WINTER DOES A NUMBER ON SEALS. WHEN COLD CONTRACTS A SEAL, IT OPENS THE DOOR FOR LEAKS. EVEN WORSE, MOISTURE
CAN SEEP IN AROUND SEALS
AND FREEZE. COLD TURNS
MOISTURE INTO ICE AND ICE
CUTS THE SEALS. CHECK
SEALS REGULARLY TO SEE
IF THEY NEED REPLACING.

PS MORE

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Fact 4: Cold Batteries

COLD CAN AFFECT BATTERIES, BUT UNLESS THE TEMPERATURES DROP TO SUB-FREFING LEVELS, SEALED LEAD-ACID BATTERIES (SLAB) OR NI-CAD BATTERIES SHOULD CONTINUE TO DO THEIR JOB.

HOWEVER, FREQUENT COLD STARTS WILL SHORTEN BATTERY LIFE.

THE H-GOM HAS TWO SLAB BATTERIES IN THE NOSE. THE HH-GOL HAS THE SLAB BATTERY IN THE QUAD BAY. AND THE LIH-GOA/L HAS THE BATTERY IN THE CABIN **BEHIND THE PILOT SEAT.** IT COULD BE **EITHER** A NI-CAD OR SLAB BATTERY.

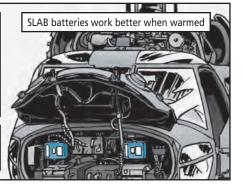


YOUR BEST BET IS TO BRING BATTERIES INSIDE FROM THE COLD IF SUB-FREEZING TEMPERATURES ARE PREDICTED. BEFORE STARTING YOUR AIRCRAFT ENGINES, TURN ON THE SEARCHLIGHT, LANDING LIGHTS OR SOME OTHER COMPONENT FOR 30 SECONDS. THAT WARMS UP THE BATTERIES AND HELPS GET THE ENGINE STARTED.

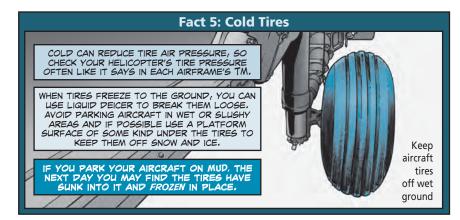
KEEP SLABS WARM. THE COLD CAN DRAIN THEIR CHARGE MUCH FASTER THAN IT DOES A NICKEL CADMIUM BATTERY.

WHEN BRINGING EITHER SLAB OR NICKEL-CADMIUM BATTERIES INSIDE, STORE THEM IN SEPARATE AREAS. FUMES FROM A SLAB BATTERY CAN CAUSE A NICKEL-CADMIUM BATTERY TO DISCHARGE.

ALWAYS STORE BATTERIES ON A SHELF OR ON TOP OF DUNNAGE BECAUSE BARE FLOORS WILL DRAIN THEM.







Fact 6: Cold Aircraft

USE AIRCRAFT COVERS TO PROTECT EVERY PART OF YOUR AIRCRAFT.

KEEPING TRACK OF YOUR AIRCRAFT COVERS AND FLYAWAY GEAR COMES IN HANDY IN THE WINTER.





IF YOU CAN'T COVER THE ENTIRE AIRCRAFT, AT LEAST COVER:

- the engine inlets
- exhaust openingspitot tubes
- the main rotor head and tail rotor



NEVER TAKE COLD WEATHER FOR GRANTED!

PREPARE TO DO MAINTENANCE WITH THE PROPER CLOTHING TO KEEP WARM SO THE JOB GETS DONE **RIGHT.**



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New Inspection for SATS Leaf Spring Wear



Mechanics, the leaf spring assemblies on the standard aircraft towing system (SATS), NSN 1740-01-575-5662, are experiencing excessive wear that can put the SATS in a non-mission capable status.

While not a safety issue, the distance between the vehicle frame and leaf spring assembly can exceed the design constraints over time. If that happens, the leaf spring assembly can rub against the drive train.

New leaf spring inspection criteria will be added to the SATS' TM 1-1740-221-13&P at the next update. In the meantime, here are the new criteria:

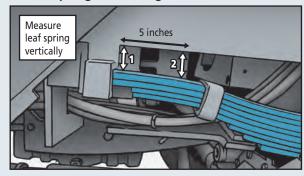
Inspection Conditions



- With the engine shut down, make sure the transmission is in park.
- Chock the vehicle tires.
- Only use standard measurements such as $\frac{1}{2}$ inch, $\frac{3}{8}$ inch, $\frac{9}{16}$ inch (+/- $\frac{1}{16}$ inch).
- Take measurements at the rear, outboard edge of the front leaf spring assembly on the driver and passenger sides where the springs enter the housing block shackle.

Leaf Spring Measuring

- 1. Measure vertically from the vehicle's frame to the point where the leaf spring assembly enters the rear housing block shackle.
- 2. Move the ruler forward five inches and measure vertically from the top of the leaf spring to the frame.



- **3.** Subtract the lesser measurement from the greater one. If the result is less than one inch, no further action is necessary. If the difference is one inch or greater or the leaf spring assembly touches the vehicle frame, go to Step 4.
- **4.** On the DA Form 2404 (manual) or 5988-E (electronic), enter a / status symbol with the following: "Left/right leaf spring assembly sag measures _____." Enter your measurement in the blank.

In the future, units should order and replace both the front left and front right leaf spring assemblies at the next 500-hour/semiannual service. Make sure you replace both assemblies at the same time.

Got Aviation Corrosion Questions?

Fighting corrosion is a daily battle. And in that fight, sometimes questions come up about how best to fight corrosion. To get answers, contact the aviation corrosion team by email: usarmy.redstone.rdecom-amrdec.mbx.amcom-corrosion@mail.mil

CREPS Reports Improve Readiness

Readiness is important to the warfighter. That's why TACOM provides a way for you to voice your concerns or comments about equipment or TMs. Just submit a Collaborative Readiness Problem Solving (CREPS) report. The website is:

https://gfis.tacom.army.mil/hd/default.cfm?p=nt&cz=128

Stay Connected with PEO Soldier

Got questions about PEO Soldier items? Check out their website at: http://www.peosoldier.army.mil/

Also check them out on social media:

https:twitter.com/PEOSoldier https://facebook.com/PEOSoldier https://flickr.com/peosoldier https://youtube.com/user/USArmyPEOSoldier

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CHADOW REEDS PROTECTION! I REALLY AM NOT MADE FOR THIS KIND OF WEATHER. PROTECT ME FROM THE ELEMENTS.

THE RQ-7B SHAPOW LIAV NEEDS ALL THE PROTECTION YOU CAN GIVE IT FROM RAIN, WIND AND PIRT, ITS DELICATE PARTS CAN BE DAMAGED BY TOO MUCH EXPOSURE TO THE ELEMENTS.

THE **BEST PROTECTION**FOR ALL UAVS IS TO KEEP
THEM PARKED **INSIDE** WHEN
THEY'RE **NOT** FLYING.



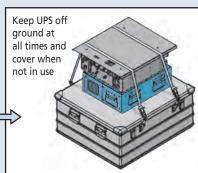
IF YOU DON'T
HAVE A TENT, AT
THE VERY LEAST
KEEP SHADOWS
COVERED WITH A
TARP. IF WINDS
ARE STRONG OR
STORMS ARE
RAGING, FIND
SOMEPLACE
ENCLOSED TO
PARK SHADOWS
TO PREVENT
DAMAGE.

ONE SHAPOW COMPONENT THAT SHOULD BE LEFT
OUTSIDE AS LITTLE AS POSSIBLE
IS THE UNINTERRUPTABLE
POWER SUPPLY (UPS) FOR
THE UNIVERSAL AND PORTABLE
GROUND DATA TERMINALS
(UGDT AND PGDT).

THE
UPS IS
ESPECIALLY
SENSITIVE
TO WATER
AND DIRT.

MAKE SURE THE UPS IS OFF THE GROUND ON A PLATFORM TO PREVENT STANDING WATER FROM GETTING IN THE UPS.

IF A LIGDT OR PGDT IS GOING TO BE SITTING OUTSIDE VERY LONG, COVER THE LIPS TO PROTECT IT FROM THE ELEMENTS.



FOR MORE INFO ON PROTECTING YOUR SHADOW, SEE TM 1-1550-1689-23&P AND TM 1-1550-689-23&P.

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JAMES BONDO in MOONBREAKER











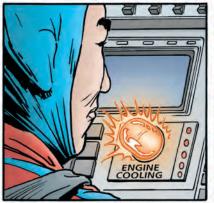


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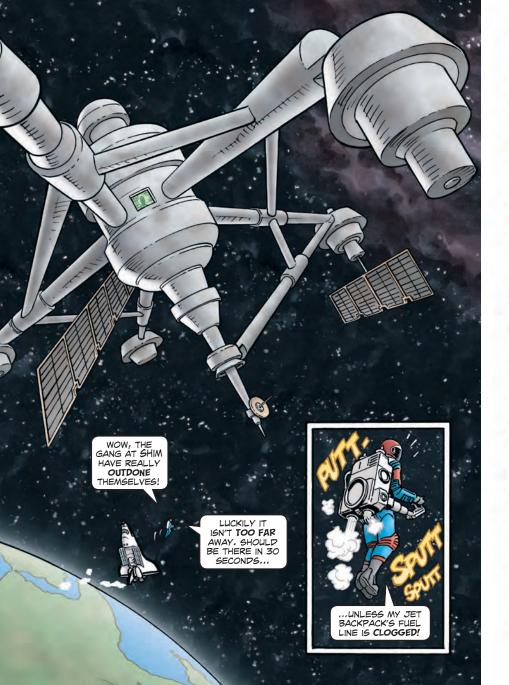








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M240 Machine Gun, M16-Series Rifle, M4/M4A1 Carbine...

UOC Makes All the Difference







SMALL ARMS REPAIRMEN, THE LOC (USABLE ON CODE) MAKES ALL THE DIFFERENCE WHEN YOU ORDER PARTS FOR YOUR M240 MACHINE GUN M16 RIFLE OR M4/M4A1 CARBINE.



SO WHEN YOU'RE LOOKING UP REPLACEMENT PARTS IN THE WEAPON'S -23&P, CHECK THE PART'S LIOC TO MAKE SURE IT'S THE RIGHT ONE FOR YOUR WEAPON.

THE LIOC IS A SERIES OF NUMBERS AND/OR LETTERS NEXT TO THE PART'S DESCRIPTION. THE LOC TELLS

YOU WHAT MODELS THE LETTERS AND NUMBERS REPRESENT.



Here are the M240 UOCs:

M240: G69 M240B: BB2 M240C: L04 M240D: BC2 M240E1: AG8 M240G: BC6 M240H: BN4

M240N: BJ8

Here are the M16 and M4 UOCs:

M16A2: AR8 M16A3: AW4 M16A4: AZ1 M4: AS1 M4A1: AY6

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A WEAPON MUST BE THOROUGHLY DEGREASED AND INSPECTED FOR CORROSION AND DAMAGE BEFORE USING SFL.

A WEAPON SHOULD ALSO BE THOROUGHLY DEGREASED EVERY TIME YOU CHANGE LUBES.

IF THE WEAPON IS CORRODED OR DAMAGED, IT MUST BE REPAIRED BEFORE USING SFL.

TO DEGREASE, USE MIL-PRF-680 TYPE II DRY CLEANING SOLVENT, NSN 6850-01-474-2317.

UNFORTUNATELY, IT'S NOT ENOUGH TO SOAK A WEAPON'S PARTS IN THE SOLVENT. YOU MUST ALSO SCRUB THE PARTS WITH THE SOLVENT AND A NON-METALLIC BRUSH TO CLEAN OUT ALL DIRT AND GREASE.





THEN APPLY AN EVEN COATING OF SFL TO THE AREAS THAT NEED TOUCHUP.



LET THE SFL FULLY CURE FOR 24 HOURS BEFORE RELUBING THE WEAPON AND RETURNING IT TO SERVICE.



YOU CAN ALSO GET A 1-GAL CAN WITH NSN 9150-00-142-9361.



AND THERE'S NOW A PAINT PEN DISPENSER, NSN 9150-01-646-0099, AVAILABLE THAT MAKES IT MUCH EASIER TO TOUCH UP NICKS, SCRATCHES AND SHINY SPOTS.



REGARDLESS OF WHICH KIND YOU USE, CAREFULLY FOLLOW THE INSTRUCTIONS ON THE CAN FOR BEST RESULTS.

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Small Arms...

Check Weapons GOING and COMING





Dear Editor.

Please emphasize to your readers the critical importance of inspecting weapons before transferring them to other units. And the receiving units also need to do their own inspections before letting weapons out of the arms room.

We've received several weapons that weren't up to 10/20 standards. In one case, a cleaning rod was stuck in the barrel. The weapon would've blown apart if fired!

> WO1 Robert Mitchell ALARNG

Editor's note: Yes, weapons should be inspected going and coming. Every weapon's -23&P TM lists the PMCS that should be done when a unit receives a weapon, new or old.

M16-Series Rifle, M4/M4A Carbine...

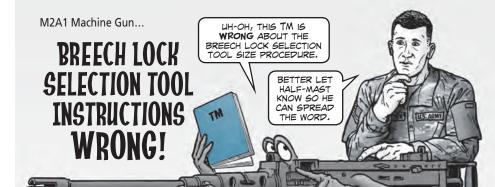
NEED A FRONT SIGHT TOOL? YOU HAVE CHOICES!

Dear Half-Mast. How do you get the tool to adjust and remove the M16 rifle and M4 carbine's front sight post?

SSG D.R.

Dear Sergeant,

Now you have two choices. In the past your support had to fabricate the tool following the instructions in WP 0030-2 in TM 9-1005-319-23&P. You can still go that route. Or you can order the tool with NSN 1005-01-660-5283 for \$35.



Dear Editor,

The M2A1 machine gun's TM 9-1005-347-23&P (Jul 11) gives the wrong info on using the breech lock selection tool.

The \widetilde{WP} 0033 00-4 says to retract the bolt until the barrel extension has separated no more than 1/16 inch from the trunnion block. This lets you use the breech lock selection tool to get the correct breech lock size.

The problem comes when the TM says to slowly release the retracting slide. That's wrong. You'll need to hold the retracting slide handle in place to maintain the 1/16-in separation until the right breech lock selection tool size has been determined.

If you do it the way the TM says, you could get the wrong reading.

SGT Nick Rucker **NEARNG**

Editor's note: *You're absolutely right, Sergeant.* This will be corrected in the next revision to the TM.

M2A1 Machine Gun... MISSING BARREL LOCKING SPRING NSN

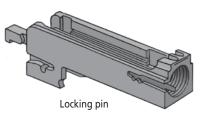
Dear Editor,

The M2A1 machine gun's TM 9-1005-347-23&P doesn't list the NSN for the barrel locking spring or show its picture in the repair parts and special tools list (RPSTL).

Repairmen need to make a note in WP 0016 00-10 that they can order the spring with NSN 1005-00-726-6134. That way they won't have to order the entire barrel extension assembly.

Follow the procedure in WP 0016 00-10 to install the spring into the barrel extension assembly.

> James Wood JBLM, WA



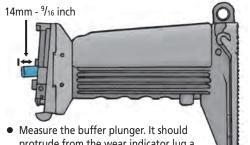
Editor's note: Great tip, James. The M2 and M2A1 -23&Ps are being merged and this mistake will be corrected in the new TM.

PS 792 **NOV 18** M240B, M240L Machine Guns...

DON'T LET BUFFER SUFFER!



If the buffer on your M240B or M240L machine gun suffers, so will your entire weapon. These checks spot buffer problems early:

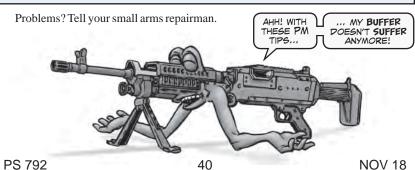


Measure the buffer plunger. It should protrude from the wear indicator lug a minimum of ⁹/₁₆ inch (14mm). If it doesn't, the buffer is loose from the buffer housing. Your weapon is NMC until the buffer is replaced.

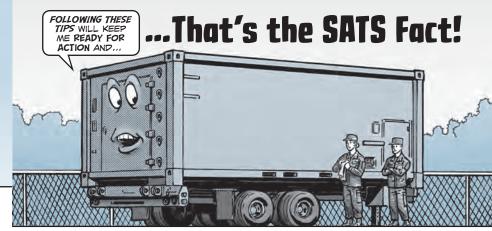
 Check the buffer housing for peening, cracking or other damage, including missing finish from the stop above the buffer.

 Check the buffer shaft for bends, mushrooming, peening and cracks on the shaft's face.

 Check the shaft for oil residue. Work the buffer to check for fluid leakage. The buffer shaft should depress smoothly without chatter and return promptly when released.



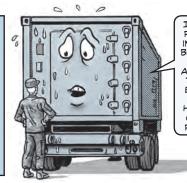
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Dear Editor,

We've found these tips keep our Standard Automotive Tool Set (SATS) ready for action:

A/C. We know PS has talked about how desiccants can help prevent corrosion doing a number on tools and other equipment stored inside SATS. But we've found the best way to beat corrosion is simply opening up SATS every week and running the A/C for 45 minutes. That does a good job drying up any moisture inside.

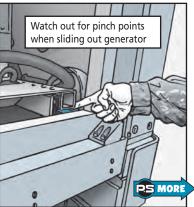


I'M GETTING
PRETTY WET
INSIDE HERE,
BETTER OPE,
MY POOR
AND TURN ON
THE A/C OR
ELSE WE'RE
GOING TO
HAVE MAJOR
CORROSION
PROBLEMS!

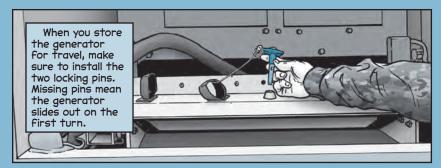
• Use two people to slide out the generator. The generator is very heavy. If the stops on the slide rails fail, the generator could slide out right on top of you! That's bad for you and the generator. Wear gloves, too. Your hands need protection from the pinch points between the door frame and the front of the rails.

It's best to have one person pushing from the rear while the other pulls from the front. Do it slowly so the generator has no momentum. Don't depend on the rail stops to stop the generator.

Try to park the SATS on level ground. That makes it easier to slide the generator in and out safely.

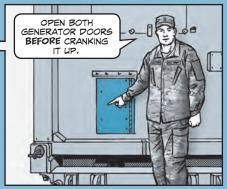


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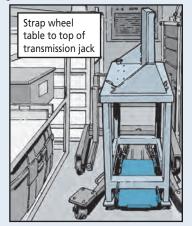
 Give the generator air. Open the generator's two doors whenever it's running. That lets exhaust go outside instead of inside the trailer.

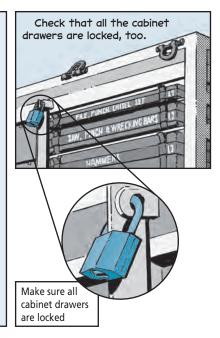
• Make sure everything is securely strapped down before hitting the road. You don't want large objects flying around inside the trailer. Every single item in the trailer should have its own ratchet strap with that strap tightly locked in place before you travel.



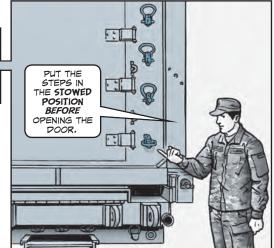


Pay special attention to the air compressor, tire jack and transmission jack. You sure don't want those heavy items bouncing around. It's easier if you strap the wheel table to the top of the transmission jack. They make a good fit.





 Before opening the door, make sure the steps are in the stow position. Otherwise, you can damage the door when you open it.



SSG Jason Firestine SPC Detreu Gregory Ft Bragg, NC

Editor's note: Those are, in fact, good SATS tips. Thanks.



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Connect to Cable Connector PM

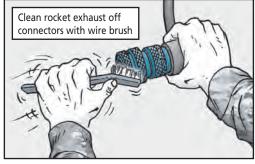


HIMARS and M270A1 MLRS rocket exhaust can do a real number on the cable connectors. The exhaust is extremely corrosive. If it's allowed to do its worst, you'll soon get system faults and it becomes harder and harder to connect and disconnect cables.

CORROSION NUMBER ON US.

A little PM after firing can make short work of corrosion. Use a wire brush to rub off any corrosion from the outside of connectors. Then use a soft brush and isopropyl alcohol to clean inside the connectors. Pay special attention to the HIMARS' W519 and W520 and the MLRS' W19 and W420 cables. They usually have the most problems with corrosion.

ROCKET EXHAUST!



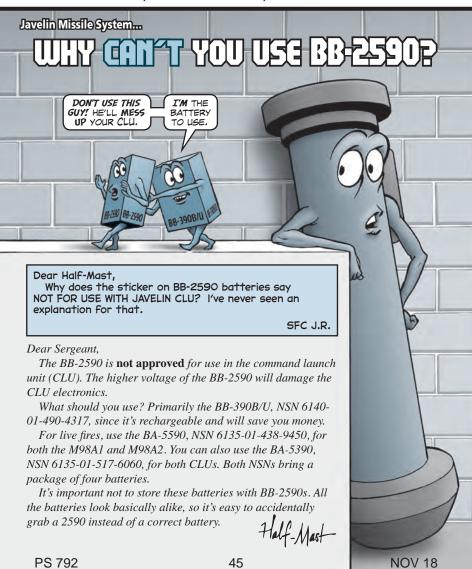
Use the cable second-chance (SAV-CONS) adapters. The adapters are fairly cheap—cables are not. If you bend the pins on an adapter, you can just put on another adapter and you're back in business. That's why it's a good idea for HIMARS and MLRS units to keep a stock of second-chance adapters. You don't want to take a chance damaging the cable connector because you have no adapter.



CONNECTORS!

HIMARS units can get more adapters free from the contractor with pseudo NSNs 0000-H0-000-0028 and 0000-H0-000-0029. MLRS units order the adapters with NSN 5935-01-155-9847 and NSN 5935-01-238-5896.

When cables become difficult to take off or you get system faults, first try changing the second-chance adapter. That often fixes the problem.



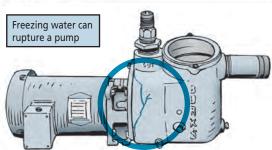
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DRAINING PREVENTS OVERNIGHT FREEZE DAMAGE TO THE LADS PLUMBING.

IF WATER FREEZES
INSIDE THE LADS, IT CAN
RUPTURE A SUBCOOLER
OR WATER PUMP. IT CAN
ALSO BURST PIPES AND
VALVES.

THAT'S AN EXPENSIVE AND MESSY PROBLEM. SO YOU MUST RUN THE DRAIN CYCLE.

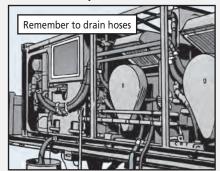


FOLLOW THE INSTRUCTIONS IN TM 10-3510-221-10 (JUL 08). WP 0016 TELLS YOU HOW TO PRAIN THE LAPS MOPEL C. WP 0017 COVERS THE LAPS MOPEL D.

MAKE SURE TO COMPLETE THE ENTIRE WORK PACKAGE FOR EACH MODEL. USE THESE GLIDELINES ALONG WITH THE TM...



- Flush water from the anti-foam and detergent hand pumps.
- Drain the water tanks. Disconnect the bright green utility hose and open the faucet.
- Even after you run the DRAIN CYCLE, a little water stays in the LADS. Drain leftover water in the water pumps, distillate pump and still by opening their ball valves (drain cocks).
 Make sure the valves are left open. That way freezing water has room to expand and won't crack pipes and valves. Note: Drain cycle can't be done manually.
- Also drain the 10-ft and 50-ft water supply hoses, the 5-ft and 50-ft drain hoses, the utility hose and the water supply pump.



Subcooler

will freeze

and crack if

not drained

A common mistake
 is forgetting to drain
 the recycle system's
 distillate pump
 assembly particulate
 filter housings and
 subcooler.
 Check that
 all eight
 of its

After dra
 leave the n
 caps off duy

valves are

opened.

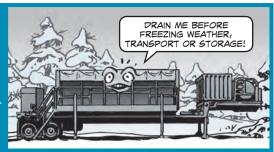
Note:
After draining, leave the manifold caps off during cold weather, until the LADS is needed.

IMPORTANT!

PRAIN THE LAPS NOT ONLY BEFORE TEMPERATURES PROP TO FREEZING, BUT ALSO BEFORE YOU TRANSPORT OR STORE IT.

HAULING THE LADS WITH FULL WATER TANKS CAN CAUSE THE TANKS TO CRACK STORING THE LADS WITH

WATER IN IT ALSO SETS UP A BREEDING GROUND FOR BACTERIA.



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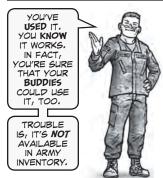
SEP: By Soldiers, for Soldiers













YOU MAY BE SURPRISED TO LEARN THAT SOLDIERS HAVE A **VOICE** IN ARMY PURCHASING DECISIONS.

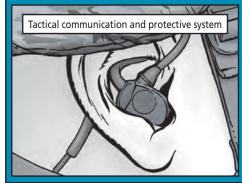
IN FACT, MORE
THAN 40 PERCENT
OF CURRENT
PROGRAM EXECUTIVE
OFFICE SOLDIER
(PEO SOLDIER)
EQUIPMENT BEGAN
IN THE SOLDIER
ENHANCEMENT
PROGRAM (SEP).

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SEP suggestions have led to Army equipment additions Modular airbor







SEP HAS BEEN AROUND FOR 28 YEARS, TAKING A 'BUY, TRY, AND DECIDE" APPROACH TO RECOMMENDED PRODUCTS.

FOR EXAMPLE, THE MODULAR
AIRBORNE WEAPONS CASE, CLIP-ON
SNIPER NIGHT SIGHT, AND TACTICAL
COMMUNICATION AND PROTECTIVE
SYSTEM ALL STARTED AS
SEP RECOMMENDATIONS
FROM THE FIELD.

COMMERCIAL OFF-THE-SHELF (COTS), GOVERNMENT OFF-THE-SHELF (GOTS), OR NON-PEVELOPMENTAL ITEMS (NDIS) ARE ALL CANDIDATES FOR SEP EVALUATION AND IMPLEMENTATION.

THE RECOMMENDED ITEM OR EQUIPMENT SHOULD DO ONE OR MORE OF THE FOLLOWING:

- Improve ability to execute a combat mission
- Improve the current program of record of COTS/GOTS/ NDI products
- Assist in the refinement and/or generation of requirements. SEP identifies COTS/GOTS/NDIs capabilities. These can be evaluated during low-cost, low-risk evaluations. The data can help developers validate and approve an item.
- Bridge a capability gap
- Improve a combat platform interface.

SINCE PROPUCTS UNDER SEP CONSIDERATION ARE ALREADY COMMERCIALLY AVAILABLE, SAVINGS COME FROM A STREAMLINED ACQUISITION PROCESS AND REDUCED RESEARCH AND DEVELOPMENT COSTS.

NOW'S YOUR CHANCE TO MAKE A REAL DIFFERENCE NOT ONLY IN UNCLE SAM'S POCKETBOOK, BUT IN YOUR FELLOW SOLDIERS' LIVES.

IF YOU THINK THERE'S A TECHNOLOGY OR EQUIPMENT ITEM THAT THE ARMY SHOULD CONSIDER, VISIT: http://www.peosoldier.army.mil/sep/

READY TO TAKE THE PLUNGE? PRESS THE <u>SUBMIT AN ITEM</u>
BUTTON AND FILL OUT THE FORM.

QUESTIONS?

EMAIL: usarmy.belvoir.peo-soldier. mbx.peo-soldier-g7-sep@ mail.mil

DATA PLATES: BUMP UP READINESS

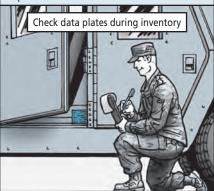


A RECENT ARMY AUDIT FOUND THAT **NOT** ALL EQUIPMENT IS BEING PROPERLY RECORDED AND REPORTED IN GC55-ARMY.

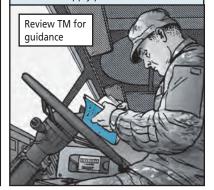
ONE REASON FOR THIS IS THAT SOME EQUIPMENT DATA PLATES ARE MISSING, UNREADABLE OR INCLUDE WRONG DATA.

UNITS SHOULD FOLLOW THESE STEPS TO **RESOLVE** DATA PLATE ISSUES AND **IMPROVE** EQUIPMENT READINESS:

 During inventory, identify any equipment with missing, illegible or incorrect data plates.



2. Check the equipment TM to see if the data plate is a field-level replacement item that can be ordered through the normal supply process.



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3. If it's ground equipment and data plates are not addressed in the TM, check with your nearest TACOM LAR, who will contact the equipment program manager to coordinate data plate replacement, if possible. To find your TACOM LAR, see Pages 14-15 in PS 759:

https://www.logsa.army.mil/web2/archive/PS2016/759/759-14-15.pdf

TACOM's Logistics Assistance Directorate is another resource at:

https://www.tacom.army.mil/ilsc/lad/

- **4.** To request night vision goggle data plates (AN/PVS-14, AN/PVS-7 and AN/AVS-6), email: usarmy.apg.cecom.mbx.lrc-night-vision-support@mail.mil
- 5. Alternatively, new data plates can often be made at depots at unit cost. For more info, see Letterkenny Army Depot's website at:

http://www.letterkenny.army.mil/UIDworks/howto.html Or email AMC at: usarmy.redstone.usamc.mbx.iuid@mail.mil



Dear Half-Mast,

I need to order OE-254 parts for our unit. The antenna mast group is NSN 5985-01-063-1574. I'm trying to find the mast section part that connects to the feed cone. It's the AB-24/GRC antenna element listed as Item 1 of TM 11-5985-357-23P (Jun 88). I've hunted high and low and gone over the TM with a fine-toothed comb, but I can't find an NSN for this part. Any tips?

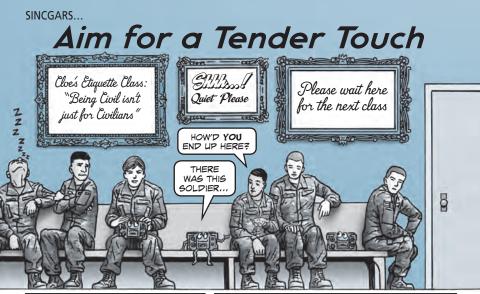
SGT G.J.

Dear Sergeant,

Yup. I'm all about raising pointed antenna tips! Here's a couple: the TM misidentified some parts. The mast section part that connects to the feed cone assembly is the MS-116A antenna element, NSN 5985-00-199-8831.

The AB-24/GRC antenna element, NSN 5985-00-240-3720, is the antenna tip mast section part. For reference, see Pages 1-0 and B-2 of TM 11-5985-357-13 (Feb 91). Antennas up!

Half-Mast



...AND HE KEPT JABBING ME
WITH MY RADIO FREQUENCY
CABLE UNTIL I GOT SO MAD I
COULDN'T TAKE IT ANYMORE!





A TENDER TOUCH IS NEEDED WHEN YOU CONNECT AND PISCONNECT THE RADIO FREQUENCY CABLE (W2), NSN 5995-01-304-2026, ON YOUR SINCGARS VEHICULAR RADIO.

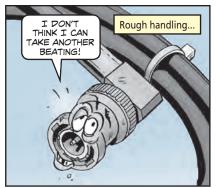
ROUGH HANDLING OR BLINDLY RAMMING N' JAMMING THE CABLE CAN BREAK OFF THE CONNECTOR PIN.

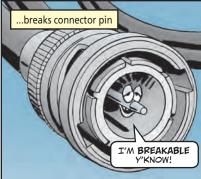
IF A PIN GETS STUCK AND BREAKS OFF INSIDE THE RT'S ANTENNA CONNECTOR OR THE POWER AMPLIFIER'S J2 CONNECTOR, YOU'LL BE SINGING THE BUSTED BLUES.

YOU'LL HAVE TO SEND YOUR SINCGARS TO SUSTAINMENT-LEVEL MAINTENANCE TO EXTRACT THE PIN.

IN OTHER WORDS, ONE MOMENT OF ROUGH HANDLING CAN TRANSLATE INTO A LOT OF REPAIR TIME, BIG BUCKS AND MAJOR HASSLES. THE SAME CAUTION APPLIES TO THE CG-3855/VRC RADIO FREQUENCY CABLE, WHICH CONNECTS THE POWER AMPLIFIER TO THE VEHICULAR ANTENNA.

IF YOU'RE **TOO ROUGH**, THE CONNECTOR PIN COULD **BREAK OFF** AND GET STUCK INSIDE THE POWER AMPLIFIER'S **J**1 CONNECTOR.

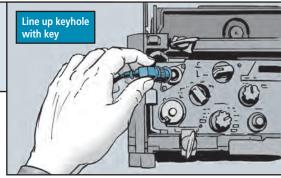




A GENTLE AND STEADY HAND IS THE KEY TO PRESERVING THOSE CONNECTIONS.



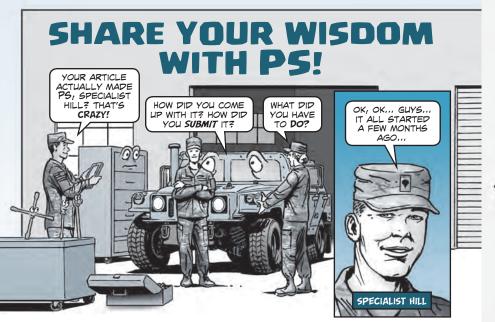
- Line up the keyhole on the cable connector with the key on the RT's antenna connector (or the power amplifier's J1 or J2 connector).
- **2.** Push the cable connector straight in.
- Turn the cable connector clockwise until it doesn't move any more.



AND HERE'S THE CORRECT WAY TO DISCONNECT THE CABLES...

- **1.** Turn the cable connector counter-clockwise until the keyhole on the cable connector lines up with the key.
- 2. Pull the cable connector straight out and off.

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...WHEN
SERGEANT
SCHELL TOLP
ME TO PCMS
THE HMMWV
BEFORE
WE TOOK IT
OUT INTO
THE FIELD,
I REALIZED
HOW TO
IMPROVE THE
PROCESS...





HERE ARE A FEW QUESTIONS TO HELP YOU GET STARTED:



- What is the problem with your equipment or error in your TM?
- What caused the problem?
- What is the solution to the problem or needed correction to the TM?
- What is the potential cost to the Army if the problem isn't corrected?
- What is the solution to the problem or the correction for the procedure in the TM?

ONCE YOU'VE OUTLINED THE PROBLEMS AND SOLUTIONS, IT'S TIME TO SUBMIT YOUR INFORMATION. DON'T WORRY ABOUT THE FORMAT. ONE OF OUR WRITERS WILL TAKE THE INFORMATION YOU PROVIDE AND WRITE THE ARTICLE IN THE PS STYLE.



WE'LL ALSO HAVE A SUBJECT MATTER EXPERT FROM THE RESPONSIBLE LCMC REVIEW THE INFORMATION, ALL PS ARTICLES ARE APPROVED BY AN ARMY AUTHORIZED PROPONENT BEFORE THEY ARE PUBLISHED.

MAKE SURE TO INCLUDE ANY HELPFUL PHOTOGRAPHS AS JPG ATTACHMENTS IN YOUR EMAIL. PONT EMBED THE PICS IN A WORP OR POWERPOINT POCUMENT, THOUGH, THAT DEGRADES THEIR QUALITY AND MAKES THEM UNUSABLE.

PS ARTISTS USE THOSE PICTURES AS TECHNICAL REFERENCES WHEN THEY ILLUSTRATE THE ARTICLE.

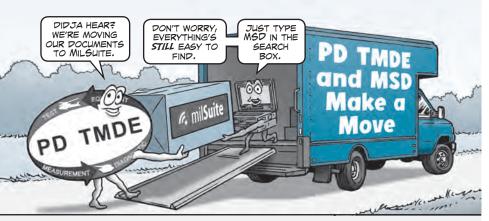
IF YOU CATCH A MISTAKE IN A TM, IT'S ALSO A GOOD IDEA TO SUBMIT A DA FORM 2028, RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS.

WE SHOWED YOU HOW TO DO THAT ON PAGES 58-59 OF PS 779 (OCT 17).

ONCE YOUR ARTICLE AND DIGITAL PICTURES ARE READY, SEND THEM TO THIS ADDRESS: usarmu.redstone.logsa.mbx.psmaq@mail.mil



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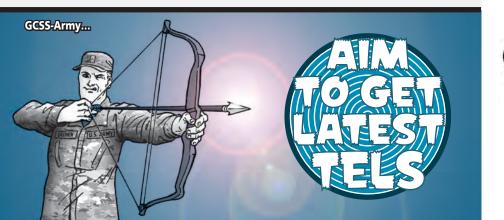




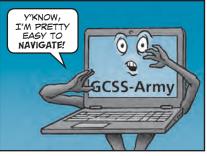
ONCE YOU LOG IN, DO A SEARCH FOR MSD. THEN CHECK OUT THE APATS MILSUITE LIBRARY FOR THE PD TMDE AND MSD DOCUMENTS AS WELL AS COURSES ON MILLUNIVERSITY. YOU'LL NEED YOUR CAC TO GAIN ACCESS: https://www.milsuite.mil/

IF YOU NEED HELP, EMAIL THE MSD/ICE HELP DESK: apats@redstone.army.mil

OR GIVE THEM A CALL: 877-564-1137







GCSS-ARMY

OPERATES ON TACTICAL ENTERPRISE LOGISTICS SYSTEM (TELS) HARDWARE THAT IS WINDOWS 10-COMPLIANT AND MEETS TRUSTED PLATFORM MODULE (TPM) 2.0 REQUIREMENTS. THE TELS HARDWARE COMPONENTS ARE ESTABLISHED IN THE ARMY STANDARD SUPPLY SYSTEM FOR REQUISITIONING. THIS REPUCES OVERALL SUSTAINMENT COSTS, WHILE ALSO SUPPORTING RAPID TECHNOLOGY "REFRESH" REQUIREMENTS.

IT ALSO ENHANCES THE UNIT'S CAPABILITIES BY ALLOWING THEM TO REQUISITION TELS COMPONENTS WITH THE STANDARD HARDWARE CONFIGURATION, A FIVE-YEAR WARRANTY WITH A 72-HOUR TURNAROUND, AND THE PRE-LOADING OF THE GCSS-ARMY SOFTWARE.



Printer, automatic data processing NSN 7025-01-662-7823

Optical reader, data entry (scanner)
NSN 7025-01-663-3407

Computer system, digital (tablet) NSN 7010-01-662-5022



QUESTIONS? EMAIL VANESSA RAMAGLIA AT: Vanessa.e.ramaglia.civ@mail.mil

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CALL THE MISTBUSTERS!









MIL-STD-2073-1, DoD Standard Practice for Military Packaging (Jan 11)

Here, you'll find information about the standard processes for developing and documenting military packaging, which is different from commercial packaging. It covers preservation methods to protect materiel against corrosion caused by the environment, physical or mechanical damage and other dangers during storage, handling or shipment.

SB 746-1, Publications for Packaging Army General Supplies (Apr 79)
This document lists publications that relate to packaging and processing Army general supplies, except for maintenance and ammo pubs. It provides guidance on procuring, storing, handling, shipping, issuing, caring and preserving general supplies.

MIL-HDBK-773, Electrostatic Discharge (ESD)-Protective Packaging (Jun 05)
Look here for detailed guidance on handling, packaging or storing items that can be damaged by electrostatic discharge.

TM 38-700, Packaging of Materiel, Preservation (Dec 99)

In this document you'll find instructions for cleaning, drying, preserving, packing, blocking and bracing, cushioning, reinforcing, weatherproofing and marking to prepare material for shipment or storage.

TM 38-701, Packaging of Materiel, Packing (Dec 99)

Contains detailed information about the requirements for packing operations, including:

- use of exterior shipping containers; assembling items or packs in the container.
- anchoring, blocking, bracing and cushioning items or packages in containers.
- weatherproofing.
- strapping of containers.
- testing exterior packs palletization and unitization of loads.
- parcel post.

The TM also covers general exterior marking in accordance with MIL-STD-129.

DA PAM 700-32, *Packaging of Army Materiel* (Jan 08) This pub gives uniform Army packaging guidelines.

MIL-STD-129, Military Marking For Shipment and Storage (Feb 14)

Provides the minimum requirements for uniform military marking and procedures for their application. Use it for the application of military specific markings for items transported and stored within the military distribution system. Markings for commercial packaging are discussed in ASTM D 3951.



MIL-STD-147, Palletized Unit Load (May 08)

This standard explains the methods, materials and techniques used in the formation of bonded palletized unit loads of military supplies on 40 x 48-in pallets. These instructions can be modified for use with different sized pallets.











NO COMMERCIAL REFRIGERANTS

On Page 51 of *PS* 787 in Step #5 under "Unit Instructions," the article stated that local purchase is authorized through LARs. That's *wrong*. Commercial purchase of all refrigerants is prohibited. They must be sole-sourced through DLA.

HEMTT A4, PLS A1 Distribution Manifold NSNs

Need a new distribution manifold for your HEMTT A4 or PLS A1 vehicle? Look no further. Each of the distribution manifolds below also come with installed solenoids:

Vehicle	Item	Fig	ТМ	UOC	NSN 4730-
PLS A1	1	768	9-2320-319-13&P	741, 751	01-670-7782
HEMTT A4 CBT	1	423	9-2320-326-13&P	L13	01-669-8492
HEMTT A4 (M977A4, M983A4, M985A4, M984A4 GMT)	1	423	9-2320-326-13&P	LH2, LH5, LH9, L10	01-667-3000
HEMTT A4 (M978A4, M983A4 LET, M984A4, M1120A4 LHS)	1	423	9-2320-326-13&P	LH4, LH7, L11, L14	01-564-7505

HEMTT Fuel Tank Repair Kits Get Makeover

The field repair kit for the HEMTT fuel tank sealant system, NSN 2540-01-577-2372, has changed. That kit contained a sealant with a shelf life that, when expired, required disposal of the entire kit. To avoid this waste, the kit now comes in two parts. Order the repair tools from the old kit with NSN 4940-01-661-4758. Order the sealant with NSN 8030-01-661-4763.

LTAS Cab Lift Cylinder NSN

Order a new front cab lift cylinder assembly for your M1078A1P2 LTAS with NSN 3040-01-665-1836 (PN 12505544-001). The old NSN 3040-01-567-2729 no longer appears on FED LOG, and the old part number crosses to a terminal NSN.

Now Showing: ESAPI Test Videos

Like any equipment, body armor needs to be inspected before use. For step-by-step videos showing the right way to do tap and torque tests on your enhanced small arms protective inserts (ESAPI), visit: https://www.dvidshub.net/video/473427/peo-soldier-armored-plate-tap-test-training

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

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THE **BEST** SOLDIERS SOAK UP MAINTENANCE INFO LIKE A **SPONGE...**



...THEN SHARE WHAT THEY'VE LEARNED!



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