



Max Torque: The Maltese Long Johns, Pt 1

27-34

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Just write to:

MSG Half-Mast

UH-60 Series Parts Turn-in

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By Order of the Secretary of the Army:

26 Connie's Post Scripts

MARK A. MILLEY

neral, United States Arm

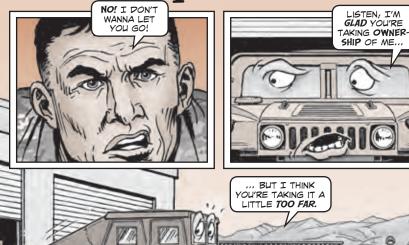
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Official:

Acting Administrative Assistant to the Secretary of the Army 1831752

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Ownership of the Vehicle



PREVENTIVE MAINTENANCE IS THE REGULAR,
ROUTINE MAINTENANCE THAT KEEPS YOUR UNIT'S
EQUIPMENT UP AND RUNNING, IT PREVENTS
UNPLANNED DOWNTIME AND EXPENSIVE REPAIR
COSTS FROM EQUIPMENT FAILURE.

BET YOU'RE NODDING YOUR HEAD AND THINKING, "NO NEWS THERE."

BUT THERE'S A **GROWING PROBLEM** IN MOTOR POOLS ACROSS THE ARMY. PMCS IS BECOMING NOTHING MORE THAN A **RIPPLE** IN THE OCEAN, ESPECIALLY ON LOW-PENSITY EQUIPMENT.

#### WHY?

BECAUSE WAY TOO MANY OPERATORS DON'T TAKE OWNERSHIP OF THEIR EQUIPMENT. THAT'S PESPITE THE FACT THAT EQUIPMENT PERFORMANCE DEPENDS ON THEM.

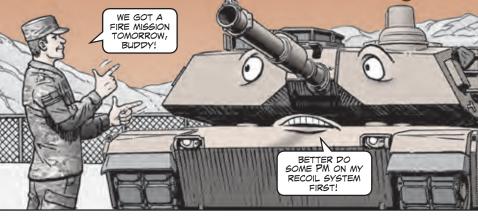
THAT'S WHERE YOU NCOS COME IN, MAKE IT A HABIT TO WALK AROUND THE MOTOR POOL ON MAINTENANCE MONDAYS OR PURING AFTER OPERATION MAINTENANCE (AOM).

CORRECT A FEW FAULTS THEY'VE MISSED AND THEY'LL LEARN FAST THAT PMCS IS THEIR DUTY.



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### **Recoil System PM Done Right**



Dear Editor,

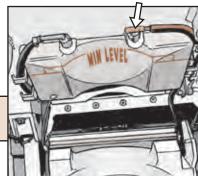
We recently had an inexperienced crew get rattled because their M1A2 tank's gun tube started shaking during a live-fire exercise. Turns out, they didn't do proper PMCS and the recoil system had air in it.

Keeping air out of the system is an important part of keeping your tank combat ready. Same goes with making sure the replenisher has enough fluid.

Just like it says in the -10 TM, here's what you need to do anytime the replenisher has been changed for maintenance or just before firing:

#### Replenisher Level

- 1. Park the tank on level ground and raise the gun tube to max elevation.
- 2. Make sure you're wearing long sleeves (rolled down), rubber gloves, goggles and a faceshield. FRH contains a chemical that can cause paralysis if it's taken orally. FRH can also be absorbed through the skin, so wash thoroughly with soap and water if you get any on you.
- 3. Disconnect the hose from the plug on the top right side of the replenisher reservoir.
- 4. Uncoil the hose by sliding it out of the six retaining clips around the outside of the replenisher.
- 5. Extend the hose through the loader's hatch.
- Put the small BII funnel, NSN 7240-00-404-9793, in the hose and slowly add FRH, NSN 9150-00-111-6256, until the fluid level reaches the MIN LEVEL mark on the replenisher.



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7. Remove the funnel, slide the hose back through the retaining clips and reattach it to the plug on top of the replenisher.

If the fluid level in the replenisher keeps moving down over time, report it. You could have a Class III leak.

### Bleed Recoil System

If there's air in the system, the replenisher could give you a false reading. The level may look good when it's actually low.

Bleed the system prior to firing exercises and every time the system is drained and refilled. Here's how:

- Make sure you're wearing long sleeves, gloves, goggles and a face shield for protection.
- Elevate the main gun to maximum elevation with the hydraulic pump handle and check the replenisher to make sure it's full. Add hydraulic fluid if it's needed.
- With turret power off and the system hydraulic pressure reduced to zero, manually depress the gun tube just below level.
- 4. Loosen, but don't remove, the bleed plug below the gun mount.
- Allow all the air to escape until you see FRH starting to ooze from around the bleed plug.
- Retighten the bleed plug. Wipe off any FRH with a rag and dispose of it properly.
- 7. Recheck the replenisher reservoir.

Add more FRH if needed.

SSG Mike Porter Ft Hood, TX

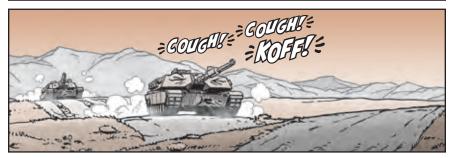




M1-Series Tanks...

# V-Packs Critical in Protecting Engine







Dear Editor,

If you've ever seen an M1-series tank engine that's been destroyed by dirt or other foreign debris, you know how important it is to make sure the air going into the engine is free of anything that could cause damage.

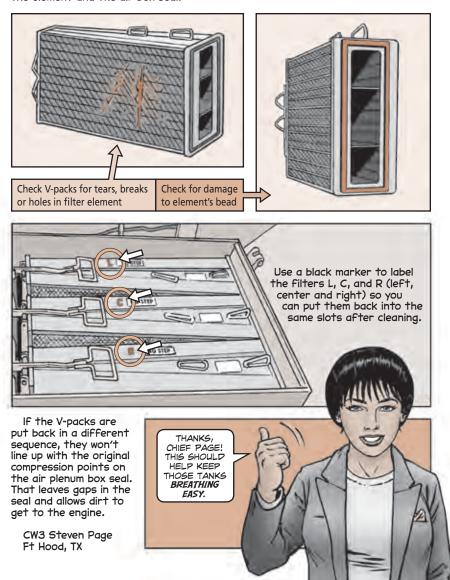
A big part of protecting the engine is making sure the V-packs are clean and serviceable. Keep in mind that every time the V-packs are removed, the seals might not seal properly and dirt and other debris can get inside the engine, so don't remove them needlessly.

Since a pulse jet system (PJS) routinely keeps the V-packs clean, the V-packs don't need to be removed until semiannual services.

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During services, they'll be removed, blown out and weighed. If they're within the weight limits listed in the TM, they'll be reinstalled. If not, they'll be replaced.

Mechanics, take a little extra time during semiannual services to look closely for measurable tears, breaks or holes in the filter element's fibers. Then look for any damage to the element's bead that would prevent a snug fit between the element and the air box seal.





Dear Editor,

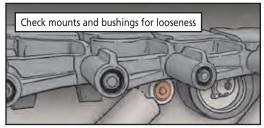
I see a lot of Bradley and MLRS crewmen overlooking their vehicle's shock absorbers after a mission. Bad idea! Like it says in the -10 TM, shock absorbers need a good once-over after every operation.

Here's how to make sure you aren't shocked by bad shock absorber PM:

 Shock absorbers that are doing their job generate heat during operation. If any of the shocks are cool or only slightly warm to the touch, tell your mechanic. Careful, though. Shocks in good working order generate a lot of heat and can burn you!



 Feel the shock absorber mounts and bushings. They should be nice and tight. Let your mechanic know about any loose ones.



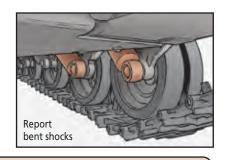
 Eyeball the shock absorbers for oil leaks. Report any leaks.



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 From the front of the vehicle, look straight down the track line at the shock absorbers.
 Checking from that angle makes it easy to find bent or broken shocks. Tell your mechanic about any shock absorbers that aren't straight.

> SGT Miguel Rodriguez Ft Carson, CO



Editor's note: Sergeant Rodriguez, hopefully your tips will shock some crews into doing shock absorber PM!

WELL, YOUR PM'S ALL DONE FOR THE DAY

WELL, YOUR PM'S ALL DONE FOR THE DAY

WELL, YOUR PM'S ALL DONE COVERS A LITTLE ATTENTION?

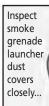
WELL, YOUR PM'S ALL DONE FOR THE DAY

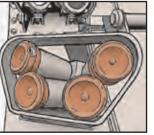
ON DUST

GOVERS PM

CREWMEN, TAKE A LITTLE EXTRA TIME DURING PMCS AND GIVE THE DUST COVERS ON YOUR MII3 CARRIER'S SMOKE GRENADE LAUNCHER TUBES A GOOD EYEBALLING.

THE COVERS SHOULD BE IN GOOD SHAPE, WITH **NO TEARS OR HOLES.**IF YOU FIND AN **UNSERVICEABLE**COVER, ORDER A NEW ONE WITH
NSN 5340-01-095-0297.







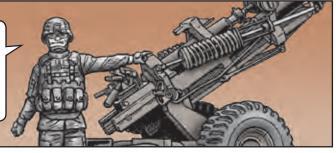
WHILE YOU'RE AT IT, MAKE SURE THE SMOKE GRENADE LAUNCHER TUBES ARE FREE OF ANY DIRT OR OTHER DEBRIS. USE A PIPE CLEANER TO CLEAN THE DRAIN HOLE IN THE BOTTOM OF EACH TUBE, JUST LIKE IT SAYS IN THE -10 TM. THEN LOOSEN AND
PUSH OUT ANY
REMAINING DIRT OR
DEBRIS THROUGH THE
DRAIN HOLES.

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## AVOID NOSTY SPRING SURPRISE



CREWMEN, STORING YOUR M119A2 TOWED HOWITZER IN THE TRAVEL-LOCK POSITION COULD DAMAGE THE EQUILIBRATOR SPRINGS.



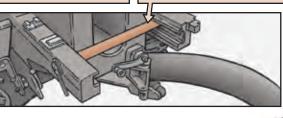
THE SPRINGS, NSN 5360-01-465-3964 AND NSN 5360-01-466-4057, CAN BE DAMAGED FROM THE STRESS OF BEING COMPRESSED FOR LONG PERIODS OF TIME.

BOTH SPRINGS TOGETHER COST MORE THAN \$1,900.

**DON'T** STORE YOUR HOWITZER IN THE TRAVEL-LOCK POSITION.

INSTEAD, KEEP THE CANNON TUBE AT ITS MAXIMUM ELEVATION...

...AND MAKE SURE THE RUN-BACK STOP IS INSTALLED, JUST LIKE IT SAYS IN THE -10 TM.



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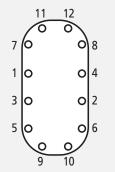
MECHANICS, THERE HAVE BEEN SEVERAL ENGINE FIRES RECENTLY INVOLVING M88-SERIES RECOVERY VEHICLES. PROPERLY
INSTALLED
TRANSMISSION OIL
FILTERS MIGHT
HAVE PREVENTED
SOME OF THESE
FIRES.

IF YOU DON'T GET THE TORQUE JUST RIGHT WHEN INSTALLING THE FILTER, THE OIL FILTER HOUSING GASKET CAN FAIL. THEN TRANSMISSION FLUID SPRAYS ON THE TURBOS.

NEXT THING YOU KNOW, YOU HAVE AN ENGINE FIRE!

Transmission oil filter gasket can blow if bolts are improperly torqued

JUST LIKE THE TM SAYS, TORQUE THE TRANSMISSION OIL FILTER MOUNTING BOLTS TO 25-31 LB-FT, BE SURE TO TORQUE THEM IN THE PROPER NUMERICAL SEQUENCE SHOWN BELOW.



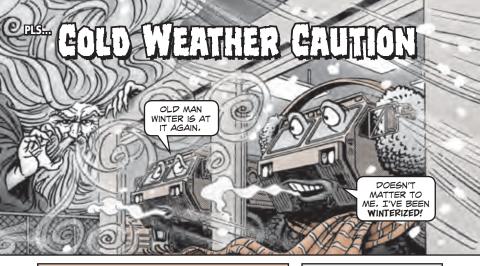
BEFORE INSTALLING A NEW FILTER, MAKE SURE NONE OF THE OLD GASKET REMAINS. AND NEVER USE ANY TYPE OF RTV!

IT ACTS AS A LUBRICANT AND COULD CAUSE THE GASKET TO BLOW.

REMOVE AS MUCH OF THE OLD TRANSMISSION OIL FROM THE MOUNTING BOLT HOLES AS POSSIBLE TO ALLOW THE PROPER TORQUE ON THE BOLTS.

FINALLY, MAKE SURE YOU'RE USING A TORQUE WRENCH THAT'S CORRECTLY CALIBRATED.

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AS OLD MAN WINTER WREAKS HAVOC WITH FREEZING TEMPS THIS SEASON, YOUR PALLETIZED LOADING SYSTEM (PLS) TRUCKS NEED EXTRA CARE TO WITHSTAND THE COLD.

HARSH WEATHER REALLY STRESSES VEHICLES, BUT THE IETM WORK PACKAGES HAVE YOU COVERED.

EVEN IF YOU'VE READ IT BEFORE, DO A QUICK REFRESHER BY READING THE SECTION ON COLD WEATHER MAINTENANCE FOR YOUR PLS MODEL:

Model	ТМ	IETM
M1074	9-2320-364-10-1,	9-2320-364-13&P (EM 0206),
& M1075	WP 0069	WP 0010-25 & 26
M1074A1	9-2320-319-10-1,	9-2320-319-13&P (EM 0298),
& M1075A1	WP 0051	WP 0100-03 & 0010-26

#### Winter Resources

THESE
ADDITIONAL
PUBS ALSO
PROVIDE
HELPFUL
INFO FOR
SERVICING
VEHICLES
WEATHER:

- TM 4-33.31, Cold Weather Maintenance Operations (Feb 17)
- ATP 390.97, Mountain Warfare and Cold Weather Operations (Apr 16)
- TC 21-305-20, Manual for the Wheeled Vehicle Operator (Jan 16)
- TB 750-651, Use of Antifreeze Multi-Engine Type Cleaning Compounds and Test Kit in Engine Cooling Systems (Sep 06)
- TM 750-254, Cooling Systems: Tactical Vehicles (Mar 72)



### Ether and Engines: A Dangerous No-No for PLS











ETHER ACTUALLY BURNS HOTTER THAN JP8 AND DIESEL. THAT MEANS YOU CAN SERIOUSLY DAMAGE YOUR PLS ENGINE IF YOU SPRAY IT WITH ETHER!

CRACKED PISTONS, FRACTURED CYLINDER SLEEVES, BENT CONNECTING RODS AND RUINED CYLINDER HEADS ARE JUST A FEW OF THE REPAIRS YOU'LL BE MAKING ON YOUR TOASTED ENGINE AFTER COOKING IT WITH ETHER SPRAY.

EVEN WORSE, ETHER IS **EXTREMELY FLAMMABLE** AND CAN IGNITE AT LOWER TEMPERATURES THAN YOU MIGHT EXPECT. THIS PUTS YOU **AND** YOUR VEHICLE AT RISK OF FIRE OR EXPLOSION WHEN USING EXTERNAL SPRAY ETHER.



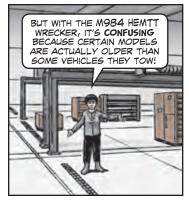


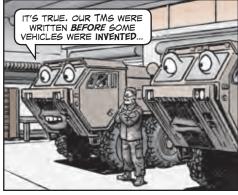
### Towing Troubles Trigger TM Transitions











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YOU'LL ONLY FIND TOWING PROCEPURES FOR FMTV/LTAG VEHICLES IN THE M984A4'S MANUAL. THE TMS FOR THE M984A1 AND A2 MODELS DON'T SAY ANYTHING ABOUT TOWING FMTVS.

SOME UNITS INTERPRET THAT TO MEAN YOU CAN'T TOW FMTV/LTAS VEHICLES WITH THE M984A1 OR A2 WRECKERS, THAT'S MOT TRUE.

THESE OLDER TMS ARE NOW BEING UPDATED TO INCLUDE TOWING PROCEDURES FOR FMTV/LTAS. IN THE MEANTIME, USE THE SAME FMTV/LTAS TOWING PROCEDURES LISTED FOR THE M984A4 IN TM 9-2320-421-10-1 AND IETM EM 0289.

YOU'LL ALSO NEED TO ORDER
THE PARTS IN THIS CHART. THAT'S
BECAUSE ALL M984 HEMTT
WRECKERS USE THE SAME TOWING
DEVICE, WHICH REQUIRES THESE
ADDITIONAL PARTS FOR TOWING
FMTV/LTAS VEHICLES:

Item	NSN		
Shoulder pin	5315-01-613-1461		
Sleeve spacer	5365-01-613-2392		
Straight pin	5315-01-215-7505		

FIND MORE INFO IN TACOM MA 16-009:

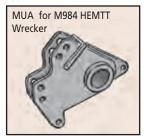
https://tulsa.tacom.army.mil/Maintenance/message.cfm?id=MA16-009.html

### **Towing Tools: Multi-Use Adapters**

BOTH THE M984 HEMTT AND THE M1089 FMTV WRECKERS MADE BY BAE AND OSHKOSH USE THE MULTI-USE ADAPTER (MUA) SYSTEM TO TOW VEHICLES, BUT THE MUAS ARE **NOT** INTERCHANGEABLE.



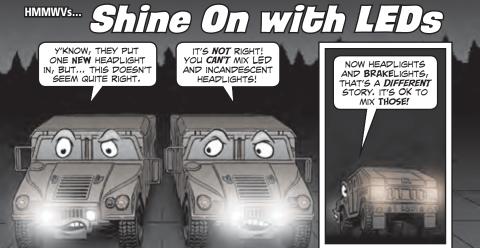




DON'T GET THEM CONFUSED! THE M1089 MUA HAS A SQUARE-SHAPED CROSS TUBE. THE M984 MUA IS A CYLINDRICAL CROSS TUBE. EACH ONE REQUIRES A LEFT AND A RIGHT MUA.

USE THIS	\
HANDY	1
CHART TO	
ORDER THE	
CORRECT MUAS:	
	,

Wrecker	Left "roadside" MUA NSN	Right "curbside" MUA NSN
M984 HEMTT	5340-01-516-2058	5340-01-516-2059
M1089 FMTV BAE	4910-01-434-6818	5340-01-372-0948
M1089 FMTV Oshkosh	2590-01-614-6050	3040-01-614-5746



Dear Half-Mast,

If one incandescent light goes out on a HMMWV, can an LED bulb be used to replace it, assuming all lights are ordered using NSNs/part numbers out of the appropriate TMs for the vehicles?

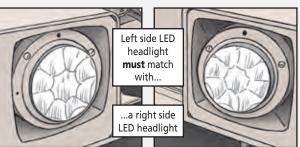
SGT N.D.

#### Dear Sergeant,

When it comes to mixing and matching incandescent and LED lights on HMMWVs, the left and right sides of the vehicle should always be symmetrical. Right and left headlights should match. Right and left brake lights should match.

However, the brake lights can be LED while the headlights are incandescent, or vice versa.

If replacing an incandescent light with an LED, the corresponding light on the other side of the HMMWV should also be replaced with an LED.



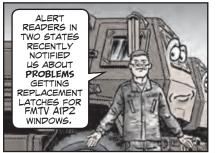
By the way, NSN 6220-01-600-5069 for the HMMWV LED headlight assembly hasn't made it into the IETM yet, so save it for future reference!

Half-Mast-

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### FMTV A1P2... SIMPLE LATCH SAVES CASH!

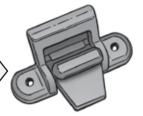








ORDER NON 2540-01-654-7991 TO GET A SINGLE WINDOW LATCH FOR ONLY \$42!



SAVE YOUR UNIT MONEY AND HEADACHES BY MAKING A NOTE OF THE NSN UNTIL THE TM IS LIPPATED.

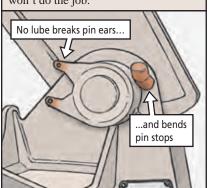
THEN NO ONE MAKES THE MISTAKE OF ORDERING A COSTLY WINDOW JUST TO REPLACE A BROKEN LATCH!

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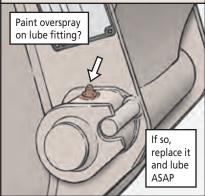


Maintenance neglect has become a real problem for the backhoes on the HMEE-1 excavator. These vehicles often sit for weeks or months at a time. Even when they're used regularly, the backhoe's lube points are often overlooked or ignored.

And when that happens, the backhoe bucket's pivot pins rust in place. That causes frozen bucket pins, busted pin ears and broken pin-stop pins. Bottom line is a backhoe bucket assembly that won't do the job.



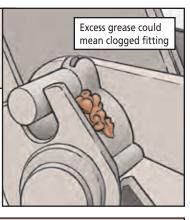
Take a good look at the HMEE-1's backhoe. Notice any lube points with CARC paint overspray on the grease fitting? That's a sure sign the grease fitting was never lubed!



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And if you see a fitting with globs of grease all around it, the fitting is either clogged or not being lubed properly. Wipe away the excess and try again. If grease still won't go in the fitting, notify your mechanic.





MAKE SURE ALL THE LUBE POINTS LISTED IN TM 5-2420-232-10 (JUL 07) GET ATTENTION. AND IF YOU'RE USING THE OPERATOR'S MANUAL IN TM 5-2420-232-13&P IN IETM EM 0330 (FEB 13), NOTE THAT THE LUBE INSTRUCTIONS AREN'T INCLUDED WITH THE PMCS.

INSTEAD, YOU'LL FIND THEM LISTED UNDER MAINTENANCE PROCEDURES.



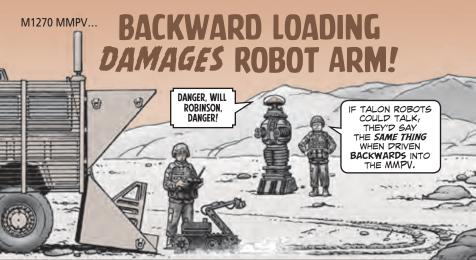
### GIVE BUCKET A BREAK

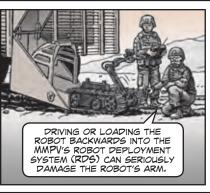
PERATORS, MAKE IT A POINT TO LOWER THE BACKHOE BUCKET SO IT'S FLAT ON THE GROUND WHEN YOU PARK YOUR HMEE-1 EXCAVATOR.

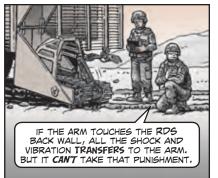
RESTING THE BUCKET TAKES
WEIGHT OFF THE LIFT
CYLINDER AND KEEPS WATER
FROM POOLING INSIDE,

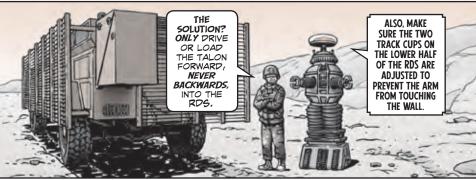
WATER THAT SITS IN THE BUCKET CAUSES **RUST.** IN THE WINTER, IT FREEZES AND SPLITS WELDS.

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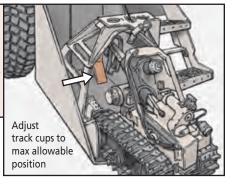




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#### HERE'S HOW:

- 1. Remove the robot from the RDS.
- Open the RDS so that its lower half is positioned parallel to level ground below it. That stops the track cups from sliding back and forth.
- Locate the two adjustable track cups on the lower half of the RDS.
- Using the adjustable wrench from your BII, loosen and remove the two nuts located on each adjustable cup (total of four nuts).
- Loosen both nuts to re-position track cups
- 5. With the nuts removed, manually adjust the two track cups by pushing them away from the rear of the truck. You'll know they're in the correct position when both cups are at the maximum allowable space along the slotted holes. Make sure both track cups are in alignment with each other.
- Tighten the track cups in their new position using the four nuts removed in Step 4.







FOR MORE INFORMATION, CHECK OUT TACOM MAINTENANCE ACTION MESSAGE 18-011: https://tulsa.tacom.armu.mil/Maintenance/message.cfm?id=MA18-011.html

Watercraft...

HERE'S WHAT YOU NEED TO KNOW ABOUT THE LATEST...

### Update to DA PAM 750-8!



VESSEL OPERATORS AND MAINTAINERS, LISTEN UP!

AN UPDATE TO SECTION G-2 IN CHAPTER G, WATERCRAFT PROCESSES, FORMS AND RECORDS, OF DA PAM 750-8 IS IN THE WORKS.

BUT THERE'S NO NEED TO WAIT, HERE'S A PARAPHRASE OF WHAT THE UPDATE SAYS: 6-2. Records of use, including vessel logbooks, in Global Combat Support System-Army (GCSS-A) ensures units capture maintenance man-hours, parts or supply demands, work orders, and usage data on the vessel. This data will be used to capture and track maintenance hours and usage.

a. To capture this data, the vessel operator or maintainer will dispatch vessel(s) and input data in the appropriate fields within GCSS-A.

b. Dispatching will happen, even for routine maintenance, where underway time is not required.

c. Instructions for dispatch procedures refer to the GCSS-A End User's Manual and unit SOPs.

M1231 Husky...

### WHAT'S THE AIR DRYER INTERVAL?

Dear Half-Mast,

How often does the air dryer filter have to be replaced on the Husky? TM 9-2355-316-23-3 (Nov 10, w/Ch 2, Jul 14) lists it as a mandatory replacement item and the PMCS chart says the equipment is NMC if the filter is past its replacement date.

So when is the filter due for replacement?

Mr. D.H.G.

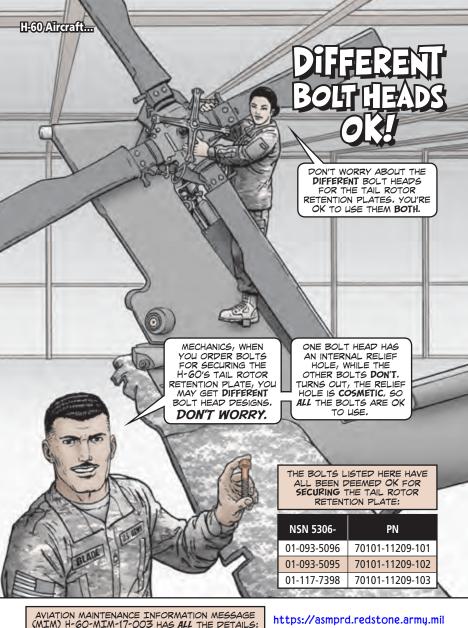


Dear Sir,

According to the manufacturer, the recommended change interval for the air dryer is one to two years. So your best bet is to change it annually.

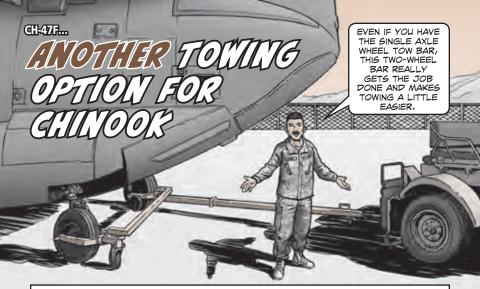
The interval will be added in the next update to the TM.

PS 795 20 FEB 19



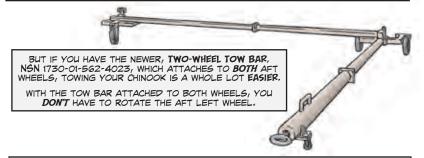
(MIM) H-60-MIM-17-003 HAS ALL THE DETAILS:

PS 795 **FEB 19** 21 Click here for a copy of this article to save or email.



MECHANICS, IF YOUR UNIT STILL HAS THE CHINOOK'S OLD SINGLE AXLE/WHEEL TOW BAR, YOU HAVE TO ROTATE THE LEFT REAR WHEEL 120 DEGREES BEFORE HOOKUP, THAT'S TO KEEP THE LANDING GEAR FROM SNAPPING DURING TOWING.

PAGE 37 OF P6 G62 (JAN 08) HAP THE COMPLETE SCOOP: https://www.logsa.armu.mil/web2/archive/PS2008/662/662-37.pdf



THE TWO-WHEEL TOW BAR KEEPS BOTH WHEELS ALIGNED DURING GROUND HANDLING AND HELPS PREVENT DAMAGE TO THE WHEELS, SPINDLE AND LANDING GEAR.

THE TOW BAR TURNS BOTH AFT LANDING GEARS DURING A TURN.

THE TOW BAR HAS A COMMERCIAL OPERATOR AND MAINTENANCE MANUAL, SO MAKE SURE YOU REFER TO IT WHEN OPERATING THE TOW BAR.

NEED A COPY? SEND AN EMAIL TO: usarmu.redstone.asc.mbx.psmag@mail.mil

NOTE THAT THIS TOW BAR IS LISTEP AS A PART OF THE SPECIAL TOOLS AND TEST EQUIPMENT (STTE) AND PECULIAR GROUND SUPPORT EQUIPMENT (PGSE), LIN 159439 IN TB 1-1520-271-20-01.

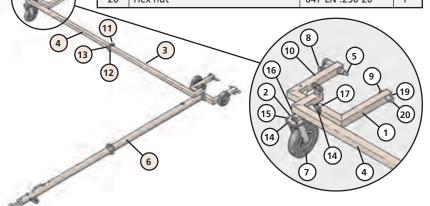
PS 795 22 FEB 19

IF YOU HAVE PROBLEMS WITH THE TOW BAR OR ITS COMPONENTS, DON'T TRY TO MAKE A REPAIR.

INSTEAD, REPLACE THE BROKEN PART FROM THIS LIST...



Tow Bar, NSN 1730-01-562-4023			
Item	Part	PN	Qty
1	Yoke assembly	HT47-01-00A	1
2	Arm assembly	HT47-03-00	1
3	Leg assembly	HT47-04-00	1
4	Leg assembly	HT47-05-00	1
5	Pin assembly	HT47-02-00	1
6	Tow bar assembly	HT-647A	1
7	Non-locking caster wheel	1080-520Z	1
8	Locking pin assembly	90222A112	1
9	Pin	HT47-02-15	1
10	Hitch pin	HITCH pin 3/4	2
11	Hex bolt-UNC (regular thread-inch)	647-B313-24-1.00	4
12	Washer A	647-W313-SAE	8
13	Hex nut	647-LN-313-24	4
14	Hex nut	647-LN375-24	8
15	Washer A	647-W375-SAE	16
16	Hex bolt-UNC (regular thread-inch)	647-B375-24-1.50	4
17	Hex bolt-UNC (regular thread-inch)	647-B375-24-1.50	4
18	Hinge	90170A650	2
19	Hex bolt-UNC (regular thread-inch)	647-B250-20-2.00	1
20	Hex nut	647-LN250-20	1



FOR ALL THE PARTS YOU NEED, CONTACT THE MANUFACTURER, BRACKETT AIRCRAFT, AT (928) 757-4005. THEIR WEBSITE IS: http://www.brackettaircraft.com/

OR YOU CAN ORDER ON A DD FORM 1348-6 USING THE PART NUMBER AND CAGE 56833.



When your Apache flies through a whirlwind of sand, a clean helicopter air data system (HADS) probe will get you where you're going.

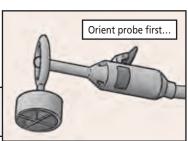
The HADS probe gives readings on air speed and directional control, so a clogged probe will leave you flying blind. Your aircraft will be like Dorothy's house: caught in a whirlwind heading to the Land of Oz.

The solution is to keep the HADS probes clean and cover them whenever the aircraft isn't flying.

Note that the Apache headshed will be issuing new information about improved HADS covers for the probes. There will be an initial free issue of two per aircraft for both D and E model Apaches through the Performance Based Logistics windows. After the free issue, the new HADS covers will come through DLA with NSN 1561-01-659-2716.

Keeping the HADS probes covered will reduce your maintenance time and decrease the number of probes that get turned in for repair. So when you're issued the improved covers, use them like this:

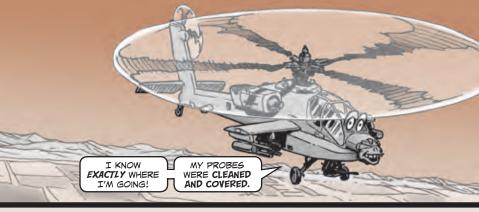
 Rotate the HADS so the fins are near the probe body at the six o'clock position and the probe head is facing outboard.



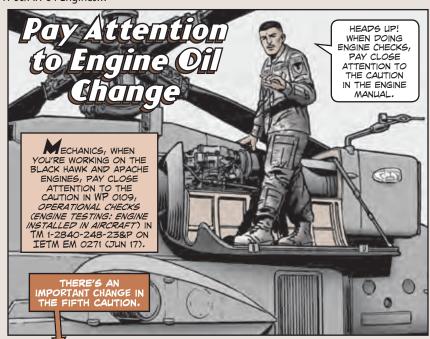
- Slide the cover over the probe head first. Continue to pull the cover over the probe to cover the temp sensor on top and the fins that are still at the six o'clock position.
- Make sure the probe head is completely seated at the end of the cover. Then fully seal the Velcro flap to create a tight seal around the HADS support arm.



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H-60/AH-64 Engines...



\*Don't operate the engine when it needs more than 1.5 quarts of oil to bring the level to the ADD line of the sight glass during a single oil service or the engine bearings may be damaged.

THE PREVIOUS EDITION OF THE TM SAID 3.5 QUARTS OIL ARE NEEDED TO BRING THE LEVEL TO THE FULL LINE, KEEP THIS IN MIND SO YOU HAVE ENOUGH ENGINE OIL TO OPERATE YOUR H-60 AND AH-64 AIRCRAFT ENGINE.

AND
CHECK OUT
ALL THE OTHER
CHANGES MARKED
BY A CHANGE
BAR IN THE LEFT
COLUMN OF
THE TM.

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

TURN II PARIG FA REPAR

GETTING THE PARTS YOU NEED TO MAINTAIN YOUR AIRCRAFT MEANS YOU MUST RETURN UNSERVICEABLE EQUIPMENT FOR REPAIR.

THE UNSERVICEABLE EQUIPMENT RETURN RATE FOR H-60 SERIES AIRCRAFT IS **LOW** AND NEEDS TO BE AT LEAST 95 PERCENT FOR ALL ITEMS.



IF YOU HAVE ANY OF THE FOLLOWING EQUIPMENT IN YOUR SHOP AREA, TURN THEM IN NOW.

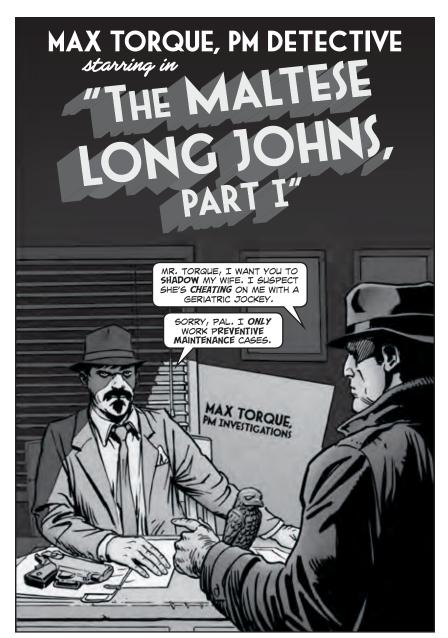
IF A PIECE OF EQUIPMENT HAS A **CONTAINER**, USE IT TO SHIP THE COMPONENT TO **AVOID** UNNECESSARY DAMAGE.

MAKE A NOTE THAT UNSERVICEABLE PARTS ARE BEING SCRAPPEP AT A HIGH RATE, SO TAKE CARE OF THEM. THEY'RE FRAGILE. THE OTHER PARTS HAVE LOW RETURN RATES, SO GET THEM IN.

Aircraft	ltem	NSN	PN	Return/ Scrap Rate %
UH-60M	Right hand stabilator	1560-01-542-8455	70200-07801-102	37.8
UH-60M	Left hand stabilator	1560-01-542-7904	70200-07801-101	63.9
UH-60A/L/M	Auxiliary valve assembly Shipping container	1650-01-399-5104 8110-00-254-5722	52900-2	62.7 22
UH-60A/L/M	Hydraulic pumping unit	5340-01-147-2150	1311024-003	73.7
UH-60A/L/M	Hydraulic accumulator Shipping container	1650-01-222-4316 1650-01-250-3767 8145-00-536-4925	3197170-5 0204-0004	82.2 22
UH-60A/L	Horizontal stabilator	1560-01-301-8212	70200-07050-051	66.7
UH-60A/L/M	Hydraulic servo valve Shipping container	1650-01-263-7870 8145-00-301-2987	70410-02540-102	79.7 22
UH-60A/L	Stabilizer fitting assembly	1560-01-088-1709	70209-07051-052	77.9
UH-60A/L/M	Hydraulic motor pump Shipping container	1650-01-224-6682 8145-00-522-6907	4730-20E	82.2 15
UH-60A/L/M	Primary transfer module hydraulic servo valve Shipping container	1650-01-162-5035 8145-00-522-6907	60900-11	89.1 15

QUESTIONS?

CONTACT HER! RODRIGUEZ AT 256-313-4832, DSN 897-4832 OR BY EMAIL: heriberto.rodriguez2.civ@mail.mil

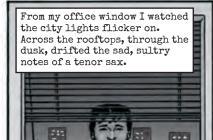


PS 795 27 FEB 19

It was a peaceful spring evening in the City of Angels. The traffic noise over on Sunset had faded to a whisper.



A gentle breeze was flowing down the Hollywood Hills, carrying the scent of jasmine to the streets below.





















LAST NIGHT SOMEONE STOLE ARMY CLOTHING AND PERSONAL GEAR FROM OUR PRIVATE COLLECTION.





TAKE, FOR EXAMPLE, THE LAUNDERING OF ARMY COMBAT UNIFORMS. IF NOT WASHED PROPERLY, UNIFORMS FADE. THEY WEAR THIN AT THE ELBOWS AND KNEES.

THE POCKETS, COLLAR AND CUFFS FRAY.

THE STITCHING COMES SO UNRAVELED YOU'RE TRAILING SIX YARDS OF THREAD.











THAT FADES THE CLOTHING, WEAKENS THE FABRIC AND SHORTENS ITS LIFE.



THEN THE DRYER IS SET FOR HOT RATHER THAN PERMANENT PRESS. THAT'S A FORMULA FOR SHRINKAGE.



SOMETIMES THE PROBLEM IS SIMPLY FAILING TO USE COLD WATER AND MILD LAUNDRY DETERGENT WHEN WASHING UNIFORMS.



I SEE THIS STORY HAS SHAKEN YOU.

IT'S JUST THAT WHEN I HEAR THE WORDS 'COLD WATER AND MILD LAUNDRY DETERGENT,' I GET ALL MISTY-EYED.

090



THE THEFT OF CLOTHING AND PERSONAL GEAR IS ONLY HALF THE CRIME.

THE THIEF ALSO STOLE A PRICELESS ARTIFACT.

MR. TORQUE, HAVE YOU EVER HEARD OF THE MALTESE LONG























...BUT A SILKEN PAIR FASHIONED BY THE FINEST CRAFTSMAN!















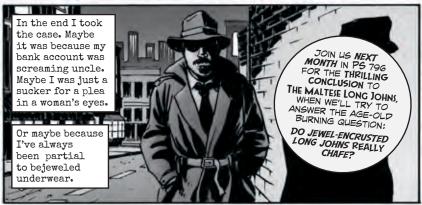








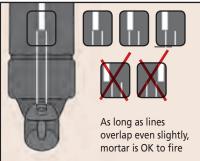






TARS 9-1000-202-14, 9-1015-250-10, 9-1015-250-23&P, AND 9-1015-256-13&P FOR THE M298 TUBE LISED ON M120/A1 MORTARS SAY THE BARREL'S WHITE LINE SHOULD ALIGN WITH THE WHITE LINE FOR THE FIRING PIN ON THE BREECH (OR BASE) CAP.





IF THE WHITE LINES HAVE SOME OVERLAP, THE CANNON IS OK TO FIRE AS LONG AS:

- there is no evidence of gas leaks, metal discoloration or excessive erosion around the area where the barrel and breech cap meet.
- the breech cap is free of cracks, dents, bulges or other unusual wear.
- the firing pin is fully accessible for removal for misfire procedures while the mortar (cannon, baseplate and bipod) is emplaced.

IF THE WHITE LINES ARE WEARING OFF, THEY CAN BE TOUCHED UP. THE LINES SHOULD BE 0.39 INCH WIDE. OF COURSE, **DON'T** MAKE THE LINES WIDER TO CORRECT A MISALIGNMENT.

MORTAR FIRE CONTROL SYSTEM (MFCS) AND MORTAR COMPONENTS WILL WORK FINE WITH THE SLIGHT MISALIGNMENT OF THE LINES.

THE TMS WILL BE REVISED TO CLARIFY THE ALIGNMENT PROCEDURE.

FOR MORE INFORMATION, SEE TACOM MAINTENANCE ADVISORY MESSAGE MAIS-035: https://tulsa.tacom.army.mil/Maintenance/message.cfm?id=MAI8-035.html

PS 795 35 FEB 19

## AVOID CCMCK DANGERS



EACH YEAR, WEAPONS BLOW APART BECAUSE OF STUCK CLOSE COMBAT MISSION CAPABILITY KIT (CCMCK) PROJECTILES. 50 FAR NO ONE HAS SUFFERED SERIOUS INJURY, **BUT** THERE HAVE BEEN SEVERAL MINOR INJURIES, NOT TO MENTION THE **DAMAGE** TO THE WEAPONS.



THIS OFTEN HAPPENS AFTER SOLDIERS HAVE DONE URBAN TRAINING/HOUSE CLEARANCE EXERCISES USING CCMCK ROUNDS.

#### SLEEVE

THEY THEN MARCH TO A RANGE TO DO REGULAR FIRING.

BUT BEFORE THEY FIRE REAL ROUNDS, THEY DON'T DO THE NECESSARY PMCS TO ENSURE THE WEAPONS' BARRELS ARE CLEAR OF OBSTRUCTIONS.

AND THAT'S WHEN THE TROUBLE STARTS.

THE PROBLEM WITH CCMCK IS THE ROUNDS CAN LEAVE AN ALUMINUM SLEEVE STUCK IN THE BARREL.

IF YOU **DON'T** PUSH OUT THE **SLEEVE**, THE BARREL ENDS UP **PLUGGED**.

PS 795 36 FEB 19



CLEAN AND LUBE YOUR WEAPON WITH CLP LIKE IT SAYS IN THE WEAPON'S -10 TM. YOUR WEAPON SHOULD BE AS CLEAN AS POSSIBLE BEFORE FIRING CCMCK ROUNDS.

DO THE SAME CLEANING AND LUBING PROCEDURE, BUT PAY SPECIAL ATTENTION TO THE BARREL AND BORE, MAKING SURE THERE ARE NO OBSTRUCTIONS.



LOOK FOR THE END OF THE CLEANING ROD IN THE CHAMBER.

IF YOU CAN'T SEE THE END OF THE ROD, YOU MAY HAVE A STUCK PROJECTILE, IF YOU CAN'T PUSH IT OUT, TELL YOUR ARMORER.

MAKE SURE THE BARREL IS CLEAR **BEFORE** YOU FIRE OR TURN IN THE WEAPON TO THE ARMS ROOM.

ARMORERS, DON'T USE A NEW MIG/M4 BARREL THAT HAS FIRED FEWER THAN 200 STANDARD ROUNDS FOR CCMCK.

OLDER BARRELS HAVE SMOOTHER BORES AND ARE LESS LIKELY TO HAVE PROBLEMS WITH A STUCK CCMCK PROJECTILE.

M249 BARRELS COME FROM THE MANUFACTURER READY FOR CCMCK FIRING, BUT YOU NEED TO FIRST FIRE 200 REGULAR ROUNDS BEFORE FIRING CCMCK. THE M9 PISTOL CONVERSION KIT. NSN 1005-20-003-2362, HAS A BLUE BARREL FOR FIRING CCMCK ROUNDS.

FOR THE COMPLETE WORP ON CCMCK, SEE TM 9-6920-3700-10. IT'S ON THE LOGSA ETM WEBSITE: https://liw.logsa.armu.mil/etmadd/#/etm/home

CONTACT ARDEC'S ROBERT WEISSMAN AT DSN 880-3056, (973) 724-3056 OR EMAIL:

QUESTIONS?

robert.j.weissman.civ@mail.mil

OR EDWARD GILLIGAN AT
DSN 880-4992, (973) 724-4992, OR EMAIL:
edward.gilligan2.civ@mail.mil



# WHERE TO FIND TOOL COMPONENT LISTS



When it's time to inventory your tools sets, it's essential that you have the sets' component lists (CL). (CLs used to be called supply catalogs (SC) or SKOs.) The CL itemizes every tool in the set with their part numbers and NSNs, plus pictures of many of the tools.

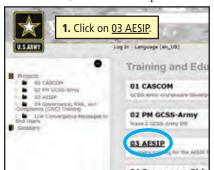
But where do you find CLs? They should be in your unit's GCSS-Army account. But sometimes they're not or aren't in a usable format. That's when you turn to the Army Enterprise Systems Integration Program (AESIP). AESIP is what feeds CLs to GCSS-Army.

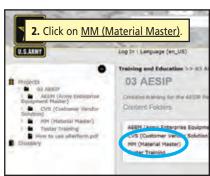
To access the CLs in AESIP, you must first establish an AESIP account. For instructions on how to do that, go to: https://www.us.army.mil/suite/page/562 Accounts are usually approved within 15 days.

While waiting for approval, take the CL/SKOTs Viewer training. Go to:

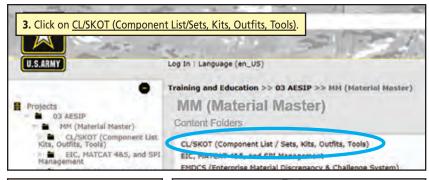
https://www.uperform.redstone.army.mil/gm/

Once there, follow these steps:





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



Take the training for all of Module 1 (Overview) and the Hand Receipts Report portion of Module 5 (Reports).

When you receive approval, log in to AESIP and click CL/SKOTs Viewer tab and follow these steps:



- 1. In the Detailed Navigation panel, click the Reporting folder to expand the folder and show its menu items.
- 2. Click the Hand Receipts Report with Illustrations link.
- Click the Publication Date drop-down menu and select the most current date. The date format is YEARMMDD.
- Type the desired NIIN into the Search By NIIN block or click the drop-down to search for NIIN.
- 5. Component List No. can be used, but isn't necessary to run the report.
- 6. Click Run.
- The CL can be scrolled through electronically, printed or exported as a file to your computer.

To export the CL, click the export icon. The best file format is Microsoft Word (97-2003)-Editable, which will display in the export pop-up menu.

To print, click on the printer icon. Printer Setup will pop up. Select the desired printer and click Print.

If a current CL can't be found in AESIP, a historical CL may be available. Email the SKOT Team: usarmy.detroit.tacom.mbx.ilsc-skot-group-actions@mail.mil AESIP problems? Email: usarmy.redstone.asc.mbx.service-desk@mail.mil GCSS-Army problems? Go to: https://s4if.lee.army.mil



The last thing you want is a critical part of your helicopter, tank, truck or weapon working itself loose while you're riding in or firing it. The result could be fatal.

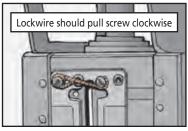
That's why these fastener rules are critical:

If the TM calls for a lock washer, use a lock washer! Lock washers keep bolts from working loose. If the TM says a lock washer is needed, it's because the equipment engineers believe that bolt needs all the help it can get to stay tight. Remember, lock washers can't be reused.

An impact wrench is no substitute for a torque wrench. If the TM calls for a certain torque on a nut, you need to get out the torque wrench and give it the torque called for. That's the only way you know for sure you've got it right. An impact wrench leaves you guessing. It could leave a nut too loose and vulnerable to working off. A nut too tight could snap off.

If the TM says to lockwire a nut or screw, lockwire it. But you've got to do it right. First, use the right lockwire (or locking cable if that's what the TM specifies). Often the lockwire found around motor pools isn't strong enough. Use the wire called out in the equipment's -23&P TM's expendable supplies. If none is called out, use NSN 9505-00-293-4208.





PS 795 40 FEB 19

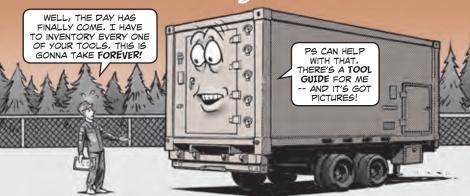
Follow the lockwire procedure in the TM.

Route the wire in the correct direction. The wire should pull the screw or nut clockwise so it can't work loose.

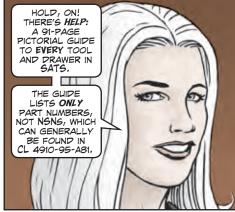
Don't leave slack in the wire. That lets the screw or nut work loose. Pull the wire as tight as possible.



## SATS Inventory Made Easier







IF YOU'D LIKE A COPY OF THE GUIDE, EMAIL PS: usarmy.redstone.asc.mbx.psmag@mail.mil

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



# ECU/PPU and You

Dear Editor,

The Avenger's environmental control unit/primary power unit (ECU/PPU) should normally be the crew's primary source of power.

But too often crews use the system batteries to do PMCS. That wears out batteries and leaves the ECU/PPU idle for too long. Then, of course, the ECU/PPU runs ragged or not at all when it's really needed.

The solution is to use the ECU/PPU during weekly PMCS. That gives it a workout, while saving the batteries.

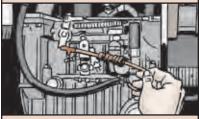
SGT Steven Kuczera Ft Bragg, NC



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Check the oil. The ECU/PPU engine often doesn't have a heavy enough load. The result is wetstacking where oil is thrown on the exhaust system. That means the oil level is always dropping, which means you always need to check the oil before cranking up the ECU/PPU.

But measure as you fill it with oil. It holds only  $3^{1/2}$  quarts. It's too easy to overfill, which leads to leaks. Pour in  $^{1/2}$  quart and then measure. Keep doing that until oil reaches the FULL line.



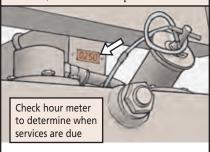
Check oil before operations and measure when adding

Before turning on the ECU/PPU, turn off the blower and set the temperature selector to VENT. Otherwise, it won't start and you'll think something major is wrong.

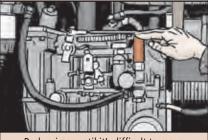


Before turning on ECU/PPU, turn off blower and set temperature to VENT

**Keep an eye on the hour meter.** The ECU/PPU should go to support every 250 hours of operation for services like replacing filters. If it doesn't get those services, it'll soon have problems.



**Pump to prime.** If the ECU/PPU won't start in cold weather, prime it. Keep pushing down on the primer until it's hard to move. The ECU/PPU should fire right up.



Push primer until it's difficult to move



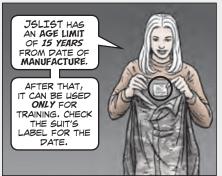
usarmv.redstone.asc.mbx.psmag@mail.mil

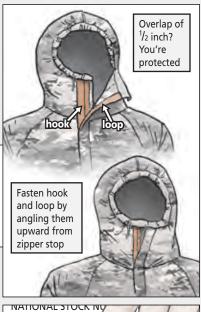


SOME SOLDIERS FEEL THAT THE JOINT SERVICE LIGHTWEIGHT INTEGRATED SUIT TECHNOLOGY (JSLIST) HOOD FITS TOO TIGHT AROUND THE NECK WHEN WEARING THE JOINT SERVICES GENERAL PURPOSE MASK (JSGPM).

AS A RESULT, THE JSLIST'S TM 10-8415-220-10 IS BEING REVISED TO INCLUDE THREE COURSES OF ACTION:

- 1. Live with the discomfort. If the tightness doesn't bother you too much, do nothing.
- 2. Lessen hood fastener overlap.
  The inside flap has a green 1/2-in fastener strip. If you can secure the left side overlapping flap to it—green on green—you're good to go. Secure the hook and loop fasteners by angling them upward from the zipper stop to the draw cords.
- Obtain a larger JSLIST Type II coat. This should be a last resort and done only if you feel the hood is still too tight around the neck.





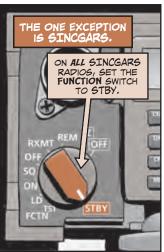


PS 795 44 FEB 19

## SLASH RISK OF POWER SURGE!







THIS STEP IS ALL TOO EASY TO FORGET IF YOU'RE IN A HURRY! ORDER A CAUTION DECAL, NSN 7690-00-942-7067, TO REMIND YOU.

PUT IT NEXT TO THE VEHICLE'S START SWITCH.
THE DECAL READS:

# CAUTION TURN OFF ALL COMMUNICATION EQUIPMENT BEFORE STARTING OR STOPPING ENGINE

ONE SIMPLE LITTLE REMINDER CAN SAVE THE ARMY BIG BUCKS AND SAVE YOU A LOT OF HEADACHES!

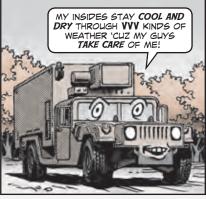
PS 795 45 FEB 19

## THE INSIDE SCOOP









EXTREME WEATHER AND WEATHER EXTREMES CAN PUNISH YOUR COMMO SHELTER.

BUT IT'S UP TO THOSE OF YOU WHO WORK AND DO MAINTENANCE INSIDE THE SHELTER TO MAKE SURE THOSE EXTREMES STAY OUTSIDE.



PS 795 46 FEB 19
Click here for a copy of this article to save or email.

THE IDEAL INSIDE-SHELTER ENVIRONMENT IS COOL AND DRY.

THAT MEANS YOUR MAINTENANCE WAR
IS WAGED AGAINST HEAT, HUMIDITY
AND CONDENSATION.

HERE ARE A FEW TIPS TO HELP YOU WIN THE BATTLE:

#### Ventilation

CLOSING THE DOOR TO YOUR SHELTER MAKES IT NEARLY AIRTIGHT.



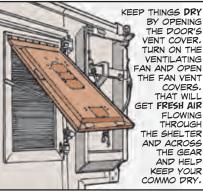
IF THE OUTSIDE TEMPERATURE CHANGES, CONDENSATION FORMS IN THE CLOSED SHELTER.





YOU'RE STILL
NOT HOME FREE.
ALL THE WATER
YOU'RE PRINKING
TO STAY
HYDRATED IS
LOST IN SWEAT.

INSIDE YOUR SHELTER, SWEAT TURNS INTO CONDENSATION.





DON'T FORGET THOSE CLOSED-UP SHELTERS IN STORAGE, THEY SUFFER MOST FROM CONDENSATION. CHECK THEM OFTEN AND LET THEM BREATHE WHEN NECESSARY.



PLACING FOAM PADS IMPREGNATED WITH VCI THROUGHOUT A SHELTER ALLOWS THE VAPORS TO CHEMICALLY BOND TO METAL SURFACES AND PROVIDE A ONE-MOLECULE THICK BARRIER BETWEEN THE METAL AND MOISTURE.

IN AN 5-250 SHELTER
IN STORAGE,
SEVEN IOXIO-INCH FOAM
PAPS SHOULD PROVIDE
A YEAR'S WORTH OF
MOISTURE PROTECTION.

IN AN 5-280 SHELTER, YOU'LL NEED 11 PADS.

DESICCANTS ADD PROTECTION BY ABSORBING MOISTURE AND HUMIDITY. USE INDICATOR CARDS ALONG WITH DESICCANTS. THESE CARDS CHANGE COLOR TO SHOW THE MOISTURE LEVEL IN THE DESICCANT AND LET YOU KNOW WHEN TO CHANGE THE DESICCANT.



#### Mats Matter

IF YOUR SHELTER HAS RUBBER FLOOR
MATS, TAKE A PEEK WINDERNEATH. MOISTURE
HAS A WAY OF COLLECTING UNDER THEM
AND FORMING MOLD AND MILDEW. IF YOU
FIND MOISTURE, PULL UP THE MATS AND
HANG THEM OUT TO DRY. WIPE THE SHELTER
FLOOR DRY WITH A MOP OR RAG.



PUST AND SAND FIND THEIR WAY UNDER SHELTER MATS, TOO. KEEP 'EM OUT OF YOUR SHELTER BEFORE THEY FIND THEIR WAY INTO COOLING SYSTEMS.

DON'T VIGOROUSLY SWEEP YOUR SHELTER!
THAT STIRS UP DUST AND SAND.

MAKE IT A RULE FOR EVERYONE TO SHAKE THE SAND AND DUST OFF THEIR CLOTHING AND BOOTS **BEFORE** THEY ENTER THE SHELTER.





#### Overheating

ODDS ARE GOOD THAT YOUR COMMO SHELTER OPERATES IN HOT-WEATHER TEMPERATURES—120°F OR MORE. COMPARED TO WHERE YOU'RE SITTING, THAT MAY EVEN SOUND COOL!

RADIOS RUN HOT AND DON'T NEED MUCH OUTSIDE HELP TO OVERHEAT,

YOU MUST KEEP YOUR SHELTER AND THE EQUIPMENT IN IT COOL. REMEMBER THESE
THREE WORDS TO
COMBAT OVERHEATINGSHADE, SHADE, SHADE.

SHADE YOUR SHELTER WHENEVER AND HOWEVER POSSIBLE. USE ANYTHING THAT'LL MAKE SHADE.



REMEMBER, TOO, THAT SHAPE **MOVES** AG THE SUN GOES UP AND DOWN AND AG YOU CHANGE THE POSITION OF YOUR SHELTER.

GET A CANOPY, NSN 4940-00-937-2553, FOR YOUR 5-280 SHELTER.
IT COMES WITH ITS OWN MOUNT HARDWARE.

THERE'S NO CANOPY FOR THE S-250 SHELTER, BUT YOU CAN GET A TARP, NSN 2540-00-927-5530. IT COMES WITH A TIE ROPE, BUT NO MOUNTING HARDWARE.

BE SURE TO RIG THE TARP SO THERE'S SOME SPACE BETWEEN THE TARP AND THE SHELTER TO LET AIR CIRCULATE. THE EQUIPMENT IN YOUR SHELTER AND THE SHELTER ITSELF HAVE COOLING SYSTEMS TO AID IN YOUR FIGHT AGAINST OVERHEATING.

SOME COOLING SYSTEMS CAN BARELY KEEP UP UNDER NORMAL HOT-WEATHER CONDITIONS.

WHEN IT'S REALLY HOT, YOU'VE GOT TO DO YOUR PART TO HELP! YOUR PART IS KEEPING FILTERS AND FANS, FINS AND GRILLS, SCREENS AND COVERS SQUEAKY-CLEAN.

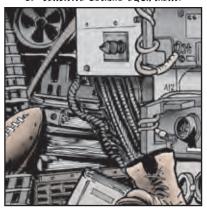
TO DO THIS JOB RIGHT, YOU HAVE TO CHECK THOSE CRITICAL CLOGGING AREAS REPEATEDLY.

IF YOU **WAIT** UNTIL THE COOLING SYSTEM IS CLOGGED UP, YOU'VE WAITED **TOO LONG.** 

MAKE SURE **EVERYONE** ON YOUR SHELTER TEAM KNOWS THEIR COOLING-SYSTEMS CHECK RESPONSIBILITIES. PROBLEMS POP UP WHENEVER SOMEONE ON THE TEAM THINKS THEIR CHECKS ARE SOMEONE ELES'S JOB.

#### **Keep Out Clutter**

OPPS ARE A LOT OF THINGS HAVE FOUND A HOME IN YOUR SHELTER THAT DON'T BELONG THERE, SOME SHELTERS HAVE THE DIRTIEST, GRIMIEST GEAR STACKED RIGHT NEXT TO-OR WORSE, RIGHT ON TOP OF-SENSITIVE COMMO EQUIPMENT.



MAYBE TOO MANY FOLKS SEE THE CENTER OF YOUR SHELTER AS UNOCCUPIED TERRITORY TO BE CONQUERED BY THEIR CAMOUFLAGE NETTING, TENTS AND TENT PEGS, OR PERSONAL GEAR. IF THAT'S THE CASE WITH YOUR SHELTER, IT'S TIME TO PUT OUT THE UNWELCOME MAT.

SOME OF YOU COMMO TYPES ARE GUILTY, TOO, AS YOU PITCH OR PACK ANTENNAS, CABLES AND GENERATOR-RELATED STUFF INTO YOUR SHELTER!



EVERY SHELTER
SHOULD HAVE A
LOAD PLAN THAT
MINIMIZES THE
THINGS THAT CAN BE
CARRIED INSIDE.

WITH A PLAN IN HAND, IT'S EASIER TO DENY REQUESTS FOR TRANSPORT OF UNAUTHORIZED EQUIPMENT. EVEN WITH A LOAD PLAN, NOTHING SHOULD COME INSIDE YOUR SHELTER THAT HAS NOT BEEN CLEANED BEFOREHAND AND NOTHING SHOULD BE TOSSED INSIDE. EVERYTHING SHOULD BE CLEANED AND CAREFULLY PLACED.

ARE THERE TIMES WHEN SPEED MAY BE THE MOST IMPORTANT CONSIDERATION, EVEN OVERRIDING CLEANLINESS AND PLACEMENT?





YES. LIFE-AND-DEATH SITUATIONS ARE A PRESENT REALITY. BUT MAKE SURE THE URGENCY IN PACKING OUTWEIGHS THE REAL POSSIBILITY OF EXPENSIVE DAMAGE TO YOUR COMMO EQUIPMENT.

#### Clean Wins the Day



WHEN IT COMES TO COMMO SHELTERS, STRIVE FOR CLEANLINESS.

DAMAGED OR DOWNED EQUIPMENT LEADS TO A FAILURE TO COMMUNICATE. A **DIRTY, CLUTTERED** SHELTER LEADS TO **DAMAGED AND DOWNED** COMMUNICATIONS EQUIPMENT.

AND ON TODAY'S
BATTLEFIELD,
THAT'S DEADLY!



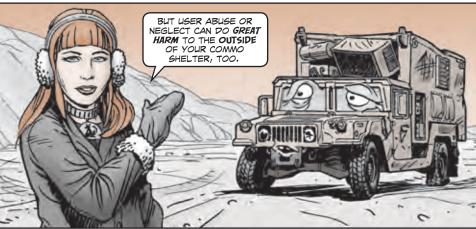
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Commo Shelters...

# ON THE OUTS

ON PAGES 46-49, WE TALKED ABOUT THE IMPORTANCE OF KEEPING COMMO SHELTERS SHIPSHAPE INSIDE.







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#### Thin-Skinned

PUNCTURES IN THE SHELTER'S SKIN AND SPLIT SEAMS INVITE LEAKS, LOOK FOR PUNCTURES AND TEARS DURING OPERATOR PMCS.

IF YOU FIND ANY, HAVE YOUR UNIT REPAIRER PATCH THEM RIGHT AWAY.

TB 43-0124, MAINTENANCE AND REPAIR PROCEDURES FOR SHELTERS (JUN 88), TELLS YOU WHAT UNIT-LEVEL MAINTENANCE CAN REPAIR, AS WELL AS THE TOOLS AND MATERIALS NEEDED.

ALSO CHECK OUT TM 10-5411-205-13 (AUG 05) FOR THE S-250 SHELTER AND TM 10-5411-207-13&P FOR THE S-280C SHELTER (APR 16). THEY'LL GIVE YOU ADDITIONAL TIPS.



#### **Dry Receptacles**



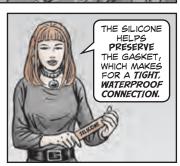


#### CORROSION ON THE CONTACTS?

CLEAN IT OFF WITH ISOPROPYL ALCOHOL. NSN 6810-00-753-4993. APPLY A LIGHT COAT OF SILICONE, NSN 6850-00-880-7616, ON THE RECEPTACLE'S GASKET









#### On Top of the Shelter



#### YOUR SHELTER'S ROOF!

IT'S MADE FROM 20-GAGE ALUMINUM, WHICH NOT ONLY DECREASES THE WEIGHT OF THE SHELTER, BUT ALSO REDUCES THE ABILITY TO USE THE ROOF AS A PLATFORM FOR STORAGE OR TRANSPORTATION OF EQUIPMENT

> THE #1 SHELTER DAMAGE PROBLEM IS CAUSED BY PILING STUFF ON TOP OF THE ROOF.





CONCERTINA WIRE, GROUND RODS, ANTENNA ELEMENTS, AND EVEN TARPS AND TENTS CAN PUNCTURE THE SHELTER'S THIN ROOF.

TO SOLVE THIS PROBLEM, SOME SOLDIERS PLACE PALLETS OR PLYWOOD BETWEEN THE ROOF AND THE EQUIPMENT PILED ON TOP.

THIS DOESN'T WORK! IT ONLY MAKES IT WORSE.

ITEMS WITH PROTRUDING NAILS AND SHARP EDGES CAN PUNCTURE THE ROOF'S SKIN.

HEAVIER LOADS LIKE PALLETS CAUSE THE FOAM BONDING BETWEEN THE OUTER ROOF AND THE INNER CEILING TO SEPARATE AND DESTROY THE SUPPORTING SPOT-WELDS.

ONCE THIS HAPPENS, THE ALUMINUM RIBBING, PLYWOOD THERMAL BARRIER AND FOAM MATERIAL FILLING THE 2-IN SPACE BETWEEN THE OUTER ROOF AND INNER CEILING ARE EXPOSED TO THE ELEMENTS, YOU'VE LOST YOUR FIRST LINE OF SHELTER PROTECTION.

THE ONLY WAY TO PROTECT YOUR SHELTER IS TO PROTECT YOUR SHELTER TOP.

NEVER, EVER, **PUT ANYTHING** ON TOP OF IT!

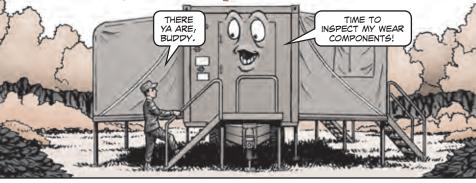


TO REINFORCE THIS PRACTICE, GET YOUR COMMANDER'S AUTHORIZATION TO STENCIL "THIS IS NOT A LOAD-BEARING SURFACE" ON TOP OF YOUR SHELTERS. NOW EVERYONE WILL GET THE MESSAGE.



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## TAKE CARE WHEN WINGING IT



Danger looms during containerized kitchen (CK) setup when raising or lowering either side's wing wall. Each wall is operated by a single manual winch assembly located inside the CK wall. The winch action raises and lowers the wing wall using a wire rope.

The affected models include the CK with trailer, NSN 7360-01-473-3408 (PNs 47010001 or 25670002, LIN C27633).

The CK configuration includes an orange safety strap that **must** be engaged before operators are under the CK wing wall to operate the cam locks.





when viewed from end
with personnel door, and
all damaged straps replaced
before unlocking cam locks
on side wings

The winch also has wear components, which must be inspected annually to ensure the winch brake mechanism is functioning correctly. Badly worn winches will not brake and may release unexpectedly.

Over time the wire rope can become damaged, frayed or flattened. Wire rope failure may cause an inadvertent wall release, so it needs to be inspected annually.

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The safety strap is constructed of 1-in webbing, which is exposed to the elements and may suffer deterioration over time. In the event the safety strap and winch or wire rope fail, the wing wall may release while Soldiers are operating the cam locks.

Each wing wall weighs about 1,500 pounds. A falling wing wall could strike someone, injuring or even killing them. Already there have been reports of Soldiers struck by falling wing walls, in one case resulting in a broken leg.



OPERATING THE CK WING WALLS WITH WORN OR DAMAGED PRIMARY WINCH COMPONENTS, CABLE ASSEMBLY AND SAFETY STRAPS PRESENTS A SIGNIFICANT RISK TO ANYONE DEPLOYING THE SYSTEM.

OPERATORS AREN'T ALLOWED TO BE UNDER THE WING WALL PURING RAISING AND LOWERING THE WALL WITHOUT THE SAFETY STRAP ENGAGED.

IF THE WINCH, SAFETY STRAP AND/OR CABLE ARE INOPERABLE WHEN CAM LOCKS ARE OPENED, THE WING WALL CAN FALL AND INJURE SOMEONE.

#### Steps for Resolving Issues and Enhancing Safety

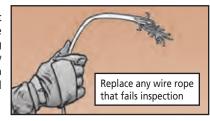
CK winch assembly. Inspect both CK winch assemblies for component wear. Inspection
requires winch removal. Follow WP 0033 in TM 10-7360-226-23-1. Ensure all warnings
are observed and wear recommended protective gloves when handling wire rope.
Primary wear points include the winch pawl, brake pads and pinion gears, though
other components may be missing or damaged.

A winch repair kit, NSN 3650-01-666-4542, is now available to replace worn components, in conjunction with a supplied work package.

Note that this is the interim solution until the replacement winch assembly is available (estimated 3QFY19). Any CK is NMC if either wing wall winch assembly is unserviceable.



 Winch cable (wire rope). Fully inspect the CK wire rope for both wing walls. The winch must be removed prior to inspecting the full length of wire rope. Replace any wire rope that fails inspection criteria with NSN 4010-01-486-3503. The CK is NMC until unserviceable wire rope is replaced.



- Wing wall safety strap. Inspect both orange safety straps for damage due to abrasion
  or environmental exposure. Do this inspection as a before- and after-PMCS check. Note
  that the strap may appear faded from the original orange color. Replacement of faded
  safety straps is recommended but not required. All hardware should be present and in
  working order.
- Immediately replace broken or missing safety straps. Order single safety straps with NSN 5340-01-486-1936. The CK is NMC if any safety strap is broken or missing.

#### **Important Pointers**

INSPECTIONS MUST OCCUR BEFORE THE CK'S NEXT USE. USE THE PROCEPURES IN TM 10-7360-226-23-1-2 TO INSPECT HARPWARE AND APPLY REPAIR COMPONENTS. ORDERING INFORMATION IS FOUND IN TM 10-7360-226-23P.

- Dispose of all damaged hardware IAW local regulations.
  - Follow-up actions: Qualify replacement of new winch assemblies for CK wing walls. Coordinate with DLA to procure winch assemblies, safety straps and wire rope.
  - **2. Field assistance:** The project manager/Product Support Integration Directorate will assist units as needed.
- Supply Status:
  - Parts required:
  - wire rope, NSN 4010-01-486-3503 safety strap, NSN 5340-01-486-1936 winch repair kit, NSN 3650-01-666-4542
- Disposition/availability:
   Legacy CK winches, NSNs 3950-01-511-1191, 3950-01-486-3816
   and 3950-01-515-2999, are obsolete and out of stock.
- Cost Impact: wire rope, NSN 4010-01-486-3503 (\$130 each); safety strap, NSN 5340-01-486-1936 (\$160 each); winch repair kit, NSN 3650-01-666-4542 (\$160 each)

FOR MORE INFO, SEE TACOM SAFETY OF USE MESSAGE 18-008: https://tulsa.tacom.army.mil/Safety/message. cfm?id=SOU18-008.html

QUESTIONS?

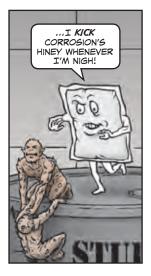
CONTACT WESLEY SHAW, DSN 256-4059, (508) 233-4059, OR EMAIL: wesley.s.shaw.civ@mail.mil



### **KEEP CORROSION AT BAY!**







TO HELP **PREVENT**CORROSION, KEEP **PLENTY**OF DESICCANT ON HAND.

GET A **DRUM OF 300 DESICCANT BAGS** WITH NSN 6850-00-264-6571.



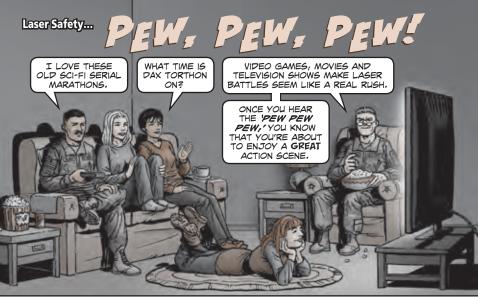
TUCK BAGS IN MOISTURE-PRONE SPOTS TO KEEP EQUIPMENT DRY.

PUT DESICCANT BAGS WHERE THEY WON'T BLOCK VENTS, FALL INTO MOVING PARTS OR OTHERWISE MESS UP YOUR EQUIPMENT.





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#### FACT:

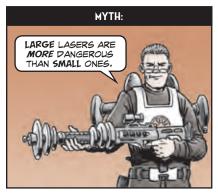
SUNGLASSES ARE **NOT** A FORM OF LASER EYE PROTECTION.

LASERS OPERATE AT SPECIFIC WAVELENGTHS AND SUNGLASSES DON'T BLOCK ANY OF THEM, OPENING YOU UP TO BLINDNESS OR INJURY.

IF YOU NEED PROTECTION, IT WILL BE ISSUED TO YOU IN ADVANCE AND RATED TO BLOCK WHICHEVER LASERS YOU'LL BE USING DURING THE MISSION. DON'T TRY TO MAKE YOUR OWN.









THE ARMY PUBLIC HEALTH CENTER HAS RELEASED A TRAINING VIDEO ON LASER SAFETY THAT WALKS YOU THROUGH SEVERAL MORE LASER MYTHS AND FACTS: https://www.youtu.be/watch?v=HvbXIx-WH9g

## COLD WEATHER CAUSES PROBLEMS, TOO

MOST SOLDIERS ARE AWARE OF INJURIES CAUSED BY HOT WEATHER. BUT PIP YOU KNOW THAT OLD MAN WINTER CAN CAUSE SOME OF THE **SAME** PROBLEMS AS HOT WEATHER... ..WHILE BRINGING
A FEW UNIQUE
CHALLENGES,
TOO?

THE INJURIES THAT MOST PEOPLE ASSOCIATE WITH COLD WEATHER ARE:

Hypothermia:

 A person's core temperature drops below 95°F.
 Hypothermia can also happen in temperatures above freezing if a person is wearing wet clothes.

• Frostbite: Frostbite happens at temperatures below 32°F, and includes freezing fingers, toes or exposed skin.
Contact with cold metal and super-cooled liquids can also cause frostbite.

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 Chilblain: A non-freezing cold weather injury that can occur after prolonged exposure to cold, wet conditions. There aren't any permanent effects associated with chilblains, but the swelling and itching will make you mighty uncomfortable.

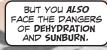


 Immersion Foot: This is also known as trench foot and is caused by prolonged exposure of tissue (usually on the feet) to cold, wet temperatures between 32 and 60°F.



THESE INJURIES AND OTHERS LIKE CARBON MONOXIDE POISONING FROM IMPROPERLY VENTED HEATERS AND FALLING INJURIES FROM SLIPPING ON THE ICE ARE UNIQUE TO WINTER WEATHER.







SO GET SMART ON COLD-WEATHER INJURIES AND PREVENTION!

THE ARMY PUBLIC HEALTH CENTER PRODUCED A SHORT, INFORMATIVE TRAINING VIDEO ON THE SYMPTOMS AND WAYS TO PREVENT COLD-WEATHER INJURIES.

FIND IT HERE: https://youtu.be/MD6Fp1p\_BCY



## Connie's POST SCRIPTS

#### Find it in EIR Digest

EIR Digest covers all TACOM-managed equipment and serves as a handy reference for TACOM publication changes, plus safety and maintenance messages. Access it on LOGSA's ETM web site: https://www.logsa.army.mil/etms

Select Pub Number in the Search Type block and search for TM 43-0001-62-%. Questions? Email: usarmy.detroit.tacom.mbx.ilsc-tech-pubs@mail.mil

#### **GET UPDATED BATTERY TB**

TB 43-0134, Battery Disposition, Handling and Disposal (May 18), has been updated, replacing a May 2008 version. Download it at the LOGSA ETM website:

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

#### **Ordering Parts Without NSN Revisited**

AMCOM's email address for ordering parts without an NSN on Page 24 of PS 789 (Aug 18) has changed. The new email address to send a completed DD Form 1348-6 is:

usarmy.redstone.amcom.mbx.alc-part-numberrequistion-redstone@mail.mil

#### New UBC TM Available

TM 10-6130-523-10 (Feb 18) is the new operator manual for the universal battery charger (UBC), NSN 6130-01-659-7090. Distribution is restricted, so you'll need to log in with your CAC to the Logistics Information Warehouse at: <a href="https://liw.logsa.army.mil/">https://liw.logsa.army.mil/</a> Choose the "ETM/IETM" icon and search for the TM.

#### TB 43-180 Revised

The AMCOM headshed has revised TB 43-180, Calibration and Repair Requirements for the Maintenance of Army Materiel (Nov 18). Grab your CAC and go to the LOGSA LIW website: https://liw.logsa.army.mil

## ATLAS 10K Forklift Wheel Assembly NSN

Page 15 of PS 766 (Sep 16) listed the wrong NSN for the ATLAS 10K forklift's right side wheel assembly. The correct NSN is 2530-01-446-1035. Make a note until a new chart is published.

#### FUN FACTOID FOR US BLOKES

Did you know PS has a British army counterpart? True story: KiT! Magazine was inspired by PS, but has their own unique comic style. Cheers to the KiT! staff, who celebrated 25 years of publication last year.

# Would You Stake Your Life ight now on the Condition of Your Equipment?

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