



Roll-up of Articles
January 2023

General and Special Topics





I Own This: December 2022 Nominees

/ Published Jan. 6, 2023

PS Magazine’s “**I Own This Campaign**” is designed to recognize Warfighters who exemplify the highest standards of care for their assigned vehicles and equipment and contribute in meaningful ways to their unit (s) overall maintenance and supply posture. In short, they live and breather readiness.

For December 2022, we had eight (8) individuals nominated for this program—the most we've ever had. All are deserving of this recognition. One was selected at random to get the spotlight placed on them. This month that individual is CW4 Scott J. Quiros from Fort Wainwright, Alaska.

SPOTLIGHT PROFILE



CW4 Scott J. Quiros

Army/Active

Aviation Material Officer (AMO)

Nominated by: CW5 Paul Fekete

How did you come to know/observe the nominee's actions? CW4 Quiros and I were assigned to the 1-25th at Ft Wainwright and we both worked together in battalion-level positions (I have subsequently been reassigned). We discussed, collaborated and developed solutions and ideas to help the commander accomplish training objectives.

I recognize that any AMO has a difficult job when it comes to fleet maintenance and aircraft readiness. I will attest that being a material officer and maintenance test pilot (MTP) of an attack aviation battalion stationed in the coldest part of the USA (Fairbanks, AK) presents many challenges.

Why does this individual deserve recognition? Chief Quiros developed a unique procedure to ensure maintenance is completed. He refined a program to train and certify MTPs and to conduct maintenance test flights (MTFs) at night due to extreme environmental conditions. He also gathered and compiled three (3) years of data to help shape and rewrite the AH-64 operations in extreme cold environments AWR (airworthiness release). This data helped remove self-imposed restrictions of flying in extreme low temperatures and enabled the battalion to conduct year-round training.

Any additional comments? Chief Quiros makes sure the unit's NCOs and maintainers are properly trained to perform maintenance tasks. He also makes sure their training is properly documented accountability. He is a consummate professional and always provides the battalion commander a true and accurate assessment for an answer. I would want him on my team if our unit was to go to war.

Also Nominated...

Warfighter's Name: **CPL Jacob E. Amesquita**

Unit: HHB, 1ID DIVARTY, Ft Riley, KS

Position/Title: Retrans Team Chief

Component: Army/Active

NSN or End Item: 5895-99-155-1466

Nominated by: SSG James Miller

Justification: I served and deployed as his platoon sergeant and NCOIC. CPL Amesquita led our brigade's integration into the Baltics. He was the first US soldier to utilize a tactical voice bridge (TVB) between US forces, Canadians and Latvians. He also led our brigade's lower technical inspection on deployment while being the lone 25U in our brigade.



CPL Jacob E. Amesquita

Warfighter's Name: **SFC Raymon H. Armitage**

Unit: HHC, 32nd IBCT, Camp Douglas, WI

Position/Title: Transportation Logistics NCO

Component: Army/National Guard

NSN or End Item: TO7679

Nominated by: LTC Bill Barthen

Justification: SFC Armitage transferred to HHC, 32nd IBCT from the Indiana Army National Guard as an 11B when I was the Brigade S-4. He was assigned to my team as an 88N, which is the duty position assigned as the S-4's driver. SFC Armitage and I drove several thousand miles together as we prepared for a major exercise at Camp Grayling. Our vehicle's generator never had operational maintenance issues. That's because SFC Armitage's attention to preventative maintenance kept the HMMWV mission-ready over a four-year period. He was exceedingly disciplined in making sure the vehicle was always mission ready. He performed vehicle PMCS, loaded equipment, prepared the JBC, radios and communicated our status to enable me to focus on other administrative and operational tasks for the latest movement that maximized my effectiveness.



SFC Armitage (right)

Warfighter's Name: **LCpl Carter Landers**

Unit: Weapons and Field Training Battalion
Edson Range, Camp Pendleton, CA

Position/Title: Armorer

Component: Marines/Active

NSN or End Item: M16A4

Nominated by: CW02 Shawn Daley

Justification: I am the Battalion's Maintenance Management Officer. I observe LCpl Landers dedication and impact to the mission daily. LCpl Landers is an effective and trusted armorer selected to provide range support for 600 recruits across five different ranges each week. For this task, he must work well with the range OICs and thoroughly know the weapons being fired. With a parts kit and tools, LCpl Landers arrives at the range able to diagnose weapon malfunctions and ensure continuity of training for 1,800 recruits, allowing each recruit to rifle qualify and become a US Marine. He takes great initiative and shows inspirational dedication with the sole intent to maintain 100% combat-ready mission-essential equipment.

Warfighter's Name: **SGT Muritala T. Olanrewaju**

Unit: Kentucky Army National Guard
Maneuver Area Training Equipment Site, Ft Knox, KY

Position/Title: Surface Maintenance Mechanic

Component: Army/National Guard
NSN or End Item: HMMWV, PLS, MTV, HEMTT
Nominated by: CW4(P) Chris Kehl
Justification: I supervise SGT Olanrewaju. He's a top-notch mechanic who's fantastic at troubleshooting faults on heavy-duty military equipment. Olanrewaju attends every course he can that pertains to military equipment and also uses time off to attend classes for mechanical engineering. He also works on military equipment on his day's off. SGT Olanrewaju goes far and above the call of duty.

Warfighter's Name: **PFC Jennifer Quinones**

Unit: F FSC, 1-319th Airborne FAR, 3BCT, 82nd ABN DIV, Ft Bragg, NC
Position/Title: Wheeled Vehicle Mechanic
Component: Army/Active
NSN or End Item: Forward Repair System (FRS)
Nominated by: 1LT Christopher Duncan
Justification: I served as the maintenance control officer for the unit where PFC Quinones serves. She was assigned the responsibility of "owning" the Forward Repair System (FRS) during the FORSCOM ground readiness evaluation assessment and training (GREAT) inspection. PFC Quinones received a 100% score for her graded portion. Further, the COMET team inspector stated that it was the most impressive FERS he had seen in any of his inspections. PFC Quinones goes above and beyond her position and grade for MOS tasks and additional duties.

Warfighter's Name: **1SG Charles Ramsey**

Unit: Kansas ARNG Readiness Center, Field Maintenance Shop, Wichita, KS
Position/Title: Inspector
Component: Army/National Guard
NSN or End Item: Various
Nominated by: SSG Shane Haberlein
Justification: I started working with 1SG Ramsey a few months ago as a technician and quickly learned he's the type of soldier I look up, am inspired to work with and want to be like. 1SG Ramsey is one of those individuals who's exceptional in every aspect of his life, whether it's coming to work and doing everything by the book, staying in shape or helping others. He's one of the best soldiers I've met over the course of the 14 years that I've been in the Army. He deserves this recognition.

Warfighter's Name: **SrA Wolfgang J. Vanwie**

Unit: 55th Rescue Generation Squadron, Davis-Monthan AFB, AZ
Position/Title: Inspection Section Journeymen
Component: Air Force/Active

NSN or End Item: HH-60G Pave Hawk

Nominated by: TSgt Riley Smith

Justification: I am SrA Vanwie's supervisor. He performs maintenance at the highest level and is a top performer in the phase section. He takes time to train new members of the unit to become quality maintainers. Vanwie is an excellent maintainer on the HH-60G platform and his devotion to quality maintenance is critical to the unit and combat search and rescue missions. He identified a gouged and out-of-limits tail gear box and acted quickly by sourcing 18 components for a gear box rebuild. His invaluable expertise led to training and qualification of four members on the rebuild task. Because of his leadership, the tail gear box was replaced in a record time that crushed the timeline by two days. Vanwie's maintenance abilities sealed a Zero-Defect Quality Assurance Key Task Listing rating that allowed the FCF to release two days ahead of schedule. The early release allowed the aircraft to complete a TDY that enabled 16 aircrew members to qualify on two weapon systems. SrA Vanwie's was hand-selected to lead a 600-hr phase inspection where he trained two crewmembers, increasing the life expectancy of the airframe by 24 months. His HH-60G knowledge was vital to the early completion of the section, allowing him to assist with 300 remaining maintenance tasks. His actions contributed to the completion of the 600-hr inspection four days early. Vanwie's bolstered the unit's dual deployment that enabled six aircraft to cover two different AORs. And finally, Vanwie expedited 13 tail rotor paddle "one-time inspections" that helped train three members on the task. The completion of the critical inspection returned \$1.3 million of assets into the supply system and across the Department of Defense. SrA Vanwie sets himself apart by performing superior maintenance on the HH-60G platform while training members on major tasks. SrA actions directly sealed the highest FMC rate in the HH-60G across the Air Force.



SrA Wolfgang J. Vanwie



Leader Interview: COL Medaglia, UAS PM

/ Published Jan. 6, 2023



COL Danielle Medaglia

Project Manager, Unmanned Aircraft Systems, PEO Aviation

MSG Half-Mast recently drove across Redstone Arsenal to speak with COL Danielle Medaglia, Unmanned Aircraft Systems (UAS) Project Manager to discuss the current state of UAS, future development efforts and some maintenance best practices.

COL Medaglia was commissioned through ROTC from Temple University in 1999, joining the Aviation branch and qualifying as a UH-60 Black Hawk pilot. She commanded Charlie Company, 3-158th Aviation Regiment, a portion of

which involved supporting Operation Iraqi Freedom. She joined the Acquisition Corps in 2009. Among her subsequent assignments, she served as: Assistant Product Manager for the Enhanced Medium Altitude Reconnaissance and Surveillance System, Aberdeen Proving Ground, MD; Chief of Flight Operations supporting the Defense Contract Management Agency with duty at the Boeing Company, Philadelphia, PA, where she also qualified as a CH-47F Chinook pilot; Product Manager, CH-47F Helicopter Product Office; and Executive Officer to the Principal Military Deputy, ASA(ALT), Washington D.C. She assumed her present duties in Sep 22. She attended the Air War College, Air University, earning a master's degree in Strategic Studies.

MSG Half-Mast: Ma'am, thanks for taking time to meet with *PS Magazine* and update us on the Army's Unmanned Aircraft Systems (UAS) Project Office. Let's start by briefly describing your organization's mission.

COL Medaglia: Our mission at the PM UAS Project Office is to revolutionize the battlefield by delivering uncrewed weapons systems that extend our combat commanders' operational reach. Our organization's motto is "Never a fair fight!" By that, we mean it's not going to be fair for the enemy. UAS give our units the operational advantage they need to fight and win on today's and tomorrow's battlefields.

MSG Half-Mast: Recognizing you're new to this position, what will be your primary focus and priorities over the next one to two years?

COL Medaglia: Team UAS is prioritizing and focusing on the Army's modernization efforts as we continue to deliver capability in support of multidomain operations. Specifically, the team is executing these near-term efforts:

1. The Air Launched Effects program of record (POR) with delivery scheduled for 2025. Air Launched Effects is a system consisting of an air vehicle, effector payload, mission system applications and associated support equipment, designed to deliver effects as a single agent or as a member of a team. The Future Tactical Unmanned Aircraft System (FTUAS) will award in 2Q23 to develop and deliver a vertical take-off and landing weapon system that consists of intelligence, surveillance, and reconnaissance functions.
2. Additionally, a short-term priority within the office is continuing the development and fielding of the Short-Range Reconnaissance Unmanned System to the Soldiers who are closest to the fight. The team is also updating the Raven UAS to the Medium Range Reconnaissance (MRR) role and kicking-off the new Long

Range Reconnaissance program next year, while continuing to modernize the Army's Gray Eagle fleet.

MSG Half-Mast: Why are UAS important to the Army's mission and how are they envisioned to support large-scale, multidomain operations? Related to this but through a joint lens, how is your office integrating with UAS development efforts of the other services?

COL Medaglia: UAS extends operational reach by leading with systems and sensors versus risking the lives of Soldiers. Specifically, UAS increase commanders' knowledge across a battlefield, which results in timely and better-informed decisions. Also, unmanned systems allow Soldiers to breach the enemy's defense systems, providing opportunities they can then exploit. In a multidomain environment, extending the reach to find and fix targets is critical for achieving victory without endangering Soldiers' lives.

PM UAS is incredibly fortunate to work with teammates among all the services and DoD laboratories where the Science and Technology (S&T) community is continuously prototyping and pushing the boundaries of what is in the realm of possible. The UAS community engages regularly across DoD to develop and deliver the best possible weapons systems to the men and women who fight our nation's wars.

MSG Half-Mast: To the degree you can answer this, how is UAS employment in the Ukraine conflict informing the decisions your office is making in its development efforts?

COL Medaglia: The efforts in the US European Command (USEUCOM) in support of Ukraine and its citizens is truly inspirational. The success of UAS is dependent on cutting-edge technology; therefore, DoD observes the systems employed throughout Ukraine to inform decisions.

MSG Half-Mast: What are some of the preventive maintenance issues Soldiers need to focus on when it comes to UAS? Are there things leaders need to emphasize better to ensure their combat effectiveness.

COL Medaglia: It is imperative that Shadow and Gray Eagle UAS units place emphasis on protecting cables. Follow the *Preventative Maintenance Daily* (PMD) section in the Shadow TM 1-1550-1689-23&P (May 22) and special instructions sections for the *Unmanned Ground Control Station* (UGCS) and *Unmanned*

Ground Data Terminal (UGDT) sections in the Gray Eagle TM 1-1550-696-23&P (Sep 22). An additional resource is TM 1-1500-323-24-4 (Aug 12) for proper fiber optic cable care. Avoid bending and stretching cables to the maximum, walking, and driving over them, or leaving them submerged in water.



Tactical Vehicles Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 12, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for tactical vehicles and trailers.

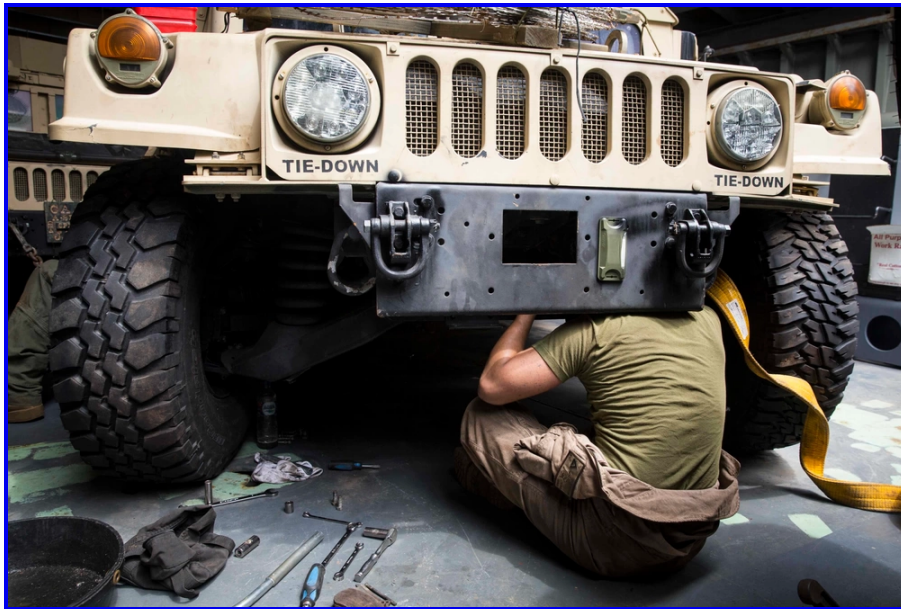


Photo by Cpl. Danny Gonzalez

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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More often, it's our readers that notice an incorrect NSN in a TM or try to order a part and discover that the NSN they're using is no longer valid and they reach out to *PS*.

After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for tactical vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

*Denotes terminal item that can still be ordered but when stocks are depleted there's a replacement NSN.

Fuel Tanker Trailers

Model	Nomenclature	NSN
M967A2, M969A3	Landing leg crank handle, retaining pin	5315-01-543-8980
M967A1P1, M969A1P1, M969A2P1	Wheel seal	5330-01-417-5137
M967A1P1, M969A1P1, M969A2P1	Hub cap gasket	5330-01-280-5827
M967A1P1, M969A1P1, M969A2P1	Outer wheel bearing	3110-00-100-0663
M967A1P1, M969A1P1, M969A2P1	Outer race	3110-00-100-0332
M967A1P1, M969A1P1, M969A2P1	Inner wheel bearing	3110-00-100-0683
M967A1P1, M969A1P1, M969A2P1	Inner race	3110-00-100-0337
M969A3	Fuel/water separator, bottom gasket	5330-01-398-8738
M969A3	Shutoff valves	4820-01-504-7434

FMTV

Model	Nomenclature	NSN
All	Air dryer	2530-01-630-5913
All	Engine air inlet heater solenoid kit	5945-01-626-8750
All	Programmed junction box	5940-99-216-7389
M1083, M1095	TPU tiedown kit	3990-01-444-0356
M1085	TPU tiedown kit	3990-01-444-0355

HEMTT

Model	Nomenclature	NSN
M1120A2	Hook arm cylinder assembly	3040-01-642-5340
HEMTT A4	Headlamp	6220-01-616-1079

HMMWV

** Due to security classification guidance from PEO CS/CSS, most HMMWV NSNs are CUI; thus, the need to place them behind the CAC firewall.

Model	Nomenclature	NSN
All	Winter tire assembly	** HERE
All	ABS brake fluid (DOT 5.1 quart-sized packs)	9150-01-694-1600
M1151A1	Engine compartment hood	* 2510-01-432-3338 2510-01-628-3889

Semitrailers

Model	Nomenclature	NSN
M172A1	Ramp assembly	3990-00-353-6354

Tractor Trucks

Model	Nomenclature	NSN
M915A3	Collision warning ECU	7050-01-691-0409
M915A3	Battery equalizer	6150-01-595-3497
M915A5	Cable pivot bracket (RH)	2590-01-699-1184

Model	Nomenclature	NSN
M915A5	Cable pivot bracket (LH)	2590-01-699-1181
M915A5	Air tank valve	4820-00-412-3525

Trailers-Cargo, Bolster and Water

Model	Nomenclature	NSN
M1101, M1102	Shock absorber	* 2510-01-190-3862 2510-01-554-1785
M796, M979, M1061, M106A1, M1073, M103A2, M149A2	Master cylinder	* 2530-00-204-4800 2530-01-339-8620



Aviation Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for aviation, as well as NSN turn-ins that are needed for repair.



Photo by [Sgt. Claudia Nix](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, corrected, updated or rescinded NSNs. Why's that?

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Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand. You can check out these articles addressing DD Form 1348-6 [HERE](#) and [HERE](#).

New or updated NSNs captured for aviation in 2022
(clicking on NSNs or items in blue hyperlinks to related article)

Shadow Cover NSNs

Item	NSN
Shadow covers	Numerous; see article

All Aircraft Turn-In Component NSNs

Item	NSN
ARC-231 receiver transmitters	5821-01-500-4770
KAB mounts	5975-01-555-9367

MEDEVAC NSNs

Item	PN	NSN
BAM window latch Rim latch set (L/H)	1049584-10	1560-01-701-9385
BAM window latch Rim latch set (R/H)	1049584-30	1560-01-702-6466
Oxygen flow meter adapter	33-2600	6515-01-298-8018
Lift bag kit (cargo set, heavy lift)	KT-694	3990-01-694-4332
MEDEVAC mission sensor (MMS) adapter plate		5340-01-614-9602

Chinook NSNs

Item	NSN
O-rings and packings (engine fuel manifold)	5331-01-703-3320
Cockpit sunshade kit	1680-01-661-1895
Cabin sunshades	1680-01-661-1937

Chinook Rotor Blade Stand NSNs

Item	PN	NSN
Angle aluminum, 2x2-in		9540-00231-9911
Lumber, 2x4-in		5510-00-267-2283
Machine bolt (27 ea.)	AN5-7A	5306-01-450-4885
Flat washer (54 ea.)	NAS1149F0563P	5310-00-167-0820
Self-locking nut (27 ea.)	MS21044N5	5310-00-088-0553
Felt strip		8305-00-812-2360

AGSE NSNs

Item	PN	NSN
Engine oil filter	XP4903180	2940-01-682-2228
Fuel/water separator	171081-55910	4730-01-682-2492
Hydraulic filter	740582032	2940-01-682-8317
Left polymer door (ALUMMC)	AM147742	2510-01-659-4135
Right polymer door (ALUMMC)	AM147743	2510-01-659-4132
Polymer door kit (ALUMMC)	BM26111	2510-01-659-4150
GANG tire and wheel assembly	581952-001	2530-01-506-2183
3T tripod jack	L10532	1730-01-537-4357 1730-01-541-3186 1730-00-734-9382
5T tripod jack	L10559	1730-00-516-2018
5T axle jack	L09135	1730-00-540-2343
10T axle jack	L09340	1740-00-203-4697
10T tripod jack		1730-01-563-7046
12T tripod jack	L10589	1730-00-912-3998
Jack Rebuild Kits		
Columbus Regent 12-ton jack		2590-01-642-3505

Malabar 12-ton jack	1730-01-500-4443
10-ton axle jack	1730-00-673-4717
5-ton axle jack	1730-00-673-4716

AGSE Maintenance Platform NSNs

Item	NSN
B-1 stand	1730-00-390-5618
B-4A Adjustable stand	1730-00-294-8883
Low Level stand	1730-00-269-8283
Low Level Maintenance Stand Part NSNs	
Item	NSN
Rigid caster	5340-01-340-9799
Quick-release pin	5315-00-935-8804
Latch assembly-clamping catch	5340-00-787-3209
Catch and strike	5340-01-295-4896
Clamping catch	5340-00-821-0304
Clamping latch catch spring loaded	5340-00-860-3862

Component Turn-In NSNs for H-60

Item	NSN
Vaneaxial fan	4140-01-424-9956
Vaneaxial fan	4140-01-329-3428
300-watt 7-ohm resistor	5905-01-698-8444
Radio receiver, LF/ADF, ARN-149(V) R-2382/ARN-149(V)1	5826-01-600-6180
Impedance amplifier, AM4859A/ARN-89	5826-00-001-4074
Radio receiver, R-2593/ARN-147(V)	5826-01-444-0314
Flight control panel, (C-10909E/A)	1680-01-544-7218
Drive shaft assembly	1615-01-491-1924

APN-209 radar altimeter	5841-01-547-5286
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Apache NSNs

Item	NSN
Electronically erasable programmable read-only memory (EEPROM)	1220-01-605-5217
Fluke® 27-II multimeter	6625-01-581-4058
Apache covers	Numerous: see article

Component Turn-In NSNs for Apache

Item	PN	NSN
EDECU		2995-01-680-3143
STAMP	1080750	4920-01-698-5843
Radio frequency amplifier	60083097-000	5996-01-616-4318
Receiver-transmitter rover	60082784-002	5820-01-616-4318
Computer digital DA	3000649000	5895-01-677-5223
Carrier drive assemblies	7-317236502-5	1005-01-221-7602



Small Arms Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for small arms.



Photo by [Sgt. Steven Lewis](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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New or updated NSNs captured for small arms in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

Model	Nomenclature	NSN
M151 spotting scope	M151 spotting scope	<u>6650-01-549-5838</u>
M249 machine gun	Front sight post adjustment tool	<u>5120-01-689-4725</u>
M50 shotgun	Buttstock	<u>1005-01-285-0612</u>
M69 reflex sight	M68 reflex sight	<u>1240-01-576-6134</u>
MK19 Grenade Machine Gun	Rear sight assembly	<u>1010-01-608-6053</u>

Here are some additional articles that contain useful NSNs.

For PRF-680 NSNs see:

[***P-D-680/CID A-A-59601 Cleaning Solvent Is a NO-GO!***](#)

For proper weapon cleaning supplies see:

[***Small Arms: What You Should Know About Weapon Cleaning***](#)

For proper material to ship weapons see:

[***Small Arms: Good Prep Protects Your Weapon for Shipping***](#)

For M240H egress kit NSNs see:

[***M240H Machine Gun: Need an Egress Kit?***](#)

For CLP and LAW NSNs see:

[***Small Arms: Does Your Weapon Need LAW Instead of CLP?***](#)

For approved Loctite® NSNs see:

[***M17/M18 MHS: Rear Sight Inspection and Repair***](#)



Commo/Electronics & Soldier Support Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for commo/electronics and Soldier support.



Photo by [Cpl. Christian Garcia](#)

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New or updated NSNs captured for communications and electronic equipment and Soldier support items in 2022:

(clicking on NSNs or items in blue hyperlinks to related article)

Commo/Electronics

Item	Nomenclature	NSN
Advanced Battery Charger	Charger, battery	6130-01-660-3696
• Adapter BTA-70100-1 For models: • BB-2590 • BB-390 • BB-2557	Adapter, battery charger	6130-01-667-1471
• Adapter BTA-70100-2 For models: • AN/PRC-148 radio battery • AN/PRC-152 radio battery • D Size NiMH batteries • AA Size NiMH batteries	Adapter, battery charger	6130-01-667-1500
AN//PVS-14 NVD	Single battery housing	5855-01-523-4058
M20 Antenna Components	Antenna, M20	Numerous; see article
STT's replacement 9200L switch	Switching group, DIG	5895-01-619-8977

Soldier Support

Item	Nomenclature	NSN
ULCANS Camouflage	Desert/Urban, General Purpose, Radar Scattering (R/S)	<u>1080-01-475-0696</u>
ULCANS Camouflage	Desert/Urban, Communications, Radar Transparent (R/T)	<u>1080-01-475-0694</u>
Clothing	Army rank insignia	<u>Numerous; see article</u>
Clothing	Unit patches for OCP uniforms	<u>Numerous; see article</u>
Tactical water purification system	Pump unit, centrifuge	<u>4320-01-531-1844</u>



Construction Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for construction equipment and vehicles.



Photo by [Capt. Andrew Czaplicki](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

That's because *PS* must be aware of new or updated NSNs. Sometimes we get notified by a command like TACOM, CECOM, DEVCOM, etc. Sometimes we're informed of an NSN change by an equipment specialist or LAR and asked to publish the change.

More often, it's our readers that notice an incorrect NSN in a TM or try to order a part and discover that the NSN they're using is no longer valid and they reach out to *PS*.

After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for construction equipment and vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

End Item	Part	NSN
40-ton Grove Crane RTCC	Entire vehicle	3810-01-205-2716
22-ton Grove Crane	Grease caps	4730-00-289-8148
TWPS	RO pump	4320-01-531-1844
MW24C Scoop Loader	Old J.I. Case Dealer parts	Order parts here
M400W Skid Loader	Door assembly	2510-01-593-8321
HYEX	Rust inhibitor	8030-01-127-4187
RCV Buffalo A2	Anti-seize compound	8030-01-087-8254
M160 Light Flail	Front camera	6720-53-000-0665
M160 Light Flail	Rear camera	6720-53-000-0664
M160 Light Flail	Front camera wiring harness	6150-53-000-0373
M160 Light Flail	Rear camera wiring harness	6150-53-000-0294
M160 Light Flail	10-in coaxial cable	5995-01-668-6980
M160 Light Flail	M160 desktop trainer	6910-01-654-9345

Other NSNs covered in 2022

Item	NSN
Dessiccant bags, 300	6850-00-264-6571
Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 1-qt	9150-01-648-5541

Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 5-gal	<u>9150-01-648-5549</u>
Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 55-gal	<u>9150-01-648-5553</u>



Combat Vehicles Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for combat vehicles.



Courtesy photo

Introduction

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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New or updated NSNs captured for combat vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

M113A3 FOV Ceramic Exhaust Components

Part	NSN
Metal tube assembly (short curved pipe)	4710-01-492-5972
Turbo supercharger	2990-01-480-3847
Manifolds (2 per engine)	4730-01-492-5996
Connector, exhaust pipe	4730-01-494-4991
Metal tube assembly (long pipe)	4710-01-492-5970

M113A3 FOV Periscope Stowage Box Pin Replacement

Part	NSN
Cotter pin	5315-00-839-2326
Flat washer	5310-00-081-4219
Spring	5360-00-776-1546
Hook	5340-00-932-4989

M1A2 SEPv3 Tank Turret Lifting Kit

Part	NSN
Lifting kit	2590-01-692-8605
5 bolt center eye link	4933-01-692-8220

M1-Series Tanks Cannon Tube Cleaning

Part	NSN
Cleaner, lubricant and preservative (CLP)	9150-01-327-9631
Bore brush	1015-01-209-3483

Chamber brush	1015-01-511-7872
Rammer staff	1015-00-699-0633

M88A2 Recovery Vehicle Semi-Annual Service Kit

Part	NSN
Semi-annual service kit	4910-01-698-9195
Mechanic's side transmission filter kit	4330-01-690-4514

Bradley FOV Towing Shackle Anchors/Lead Acid Turret Battery

Part	NSN
Towing shackle anchor	4030-01-187-0964
4HN 24V battery4HN 24V battery	6140-01-390-1968

M109A7/M992A3 Paladin/Ammo Carrier Cooling System Plenum Assembly

Part	NSN
Quick-disconnect (QD) coupler	4730-01-657-6292
Manifold	2590-01-652-4858
QD coupler O-ring	5331-01-006-9048
Ground hop kit	6110-01-659-0185

M1070A1 HET 5th Wheel Assembly

Part	NSN
5 th wheel assembly	2510-01-599-8628

Heavy Assault Scissoring Bridge (HASB) Grease

Part	NSN
MIL-G-21164 (14 oz	9150-00-935-4018
MIL-G-21164 (1.7 pounds)	9150-00-754-2595
MIL-G-21164 (6.5 pounds)	9150-00-223-4004
MIL-G-21164 (35 pounds)	9150-00-965-2003



PS Magazine Year-In-Review: Top 10 Website Downloads

/ Published Jan. 13, 2023

BLUF: PS Magazine saw nearly 80K downloads in 2022 and these were the Top 10.



PS Magazine's Cloe, Metrics Guru

Since 1951 *PS Magazine* has focused on producing articles to help Soldiers with maintenance and logistics issues. Over the past year, the *PS* website has hosted more than 470,000 visitors who viewed over 1,430,000 pages. The website also features helpful documents, posters and charts that were downloaded over 80,000 times.

The most popular download last year was the *Tire and Wheel Assembly Chart*. The chart, which was downloaded more than 6,690 times, features the NSNs for tire and wheel assemblies for a variety of wheeled vehicles. Click [HERE](#) to download a copy of the chart.

The *Condition Code Tag* infographic was also popular last year, with over 5,070 downloads. The infographic explains the four different types of condition code tags and how to order them online. Need a copy for your aviation maintainers? Click

[HERE](#).

The *Operational Camouflage Pattern (OCP) Unit Patch* chart was in high demand in 2022. The chart, which was downloaded over 2,379 times, provides the NSNs for several unit patches and rank insignia for active-duty, Reserve and National Guard units. Need a copy? Click [HERE](#).

Visitors to the *PS* website downloaded the *Tips for Towing HMMWVS* Sergeant's Time Training module over 1,772 times. The module provides tips on what to do and what not to do when towing a broken-down HMMWV. Click [HERE](#) to check it out for yourself.

Those in need of NSNs and part numbers for the Combat Service Support Automated Information System (CAISI) downloaded the *CAISI Sustainment Table* more than 1,615 times. Click [HERE](#) to download the table.

Other popular 2022 downloads include:

File	Downloads
PS Index - 2014	1,288
JTDI Access Instructions	1,069
TB 43-PS-805	1,063
PS Retro Poster - PMCS	1,058
PS Index - 2020	892

If you have thoughts on informational tools that would benefit the force that aren't currently on the *PS* website, don't hesitate to submit your ideas to us at:

usarmy.redstone.asc.mbx.psmag@army.mil



Flat Half-Mast: Seeking Rendezvous with History and More

/ Published Jan. 18, 2023

Over the holidays, MSG Half-Mast made a trip “over the pond” to visit merry ‘ole England, specifically London. While there, he made a stop at the Imperial War Museum to take in the various exhibits and learn more about the UK’s experience fighting many of the same wars we’ve fought, many we haven’t and how it envisions the future of both war and peace.

Here are a few images from that visit:





Right click on any photo and open in a new window or tab to view larger image

He's seeking more such trips and experiences and is calling on *PS* readers to click on the image below to print and cut out their own Flat Half-Mast and then photograph him at any of the following:

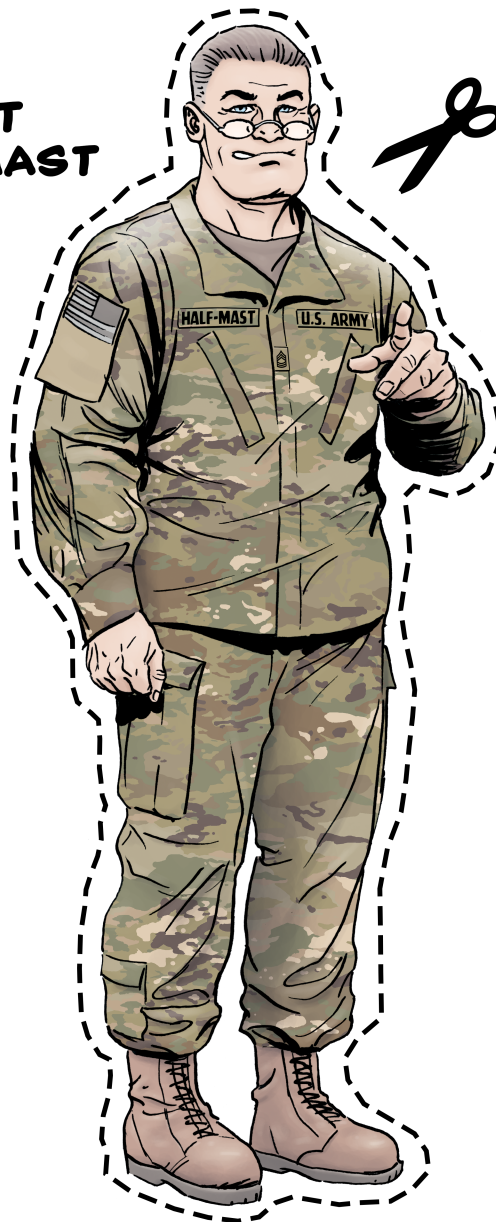
- US battlefields or memorials, here and abroad
- Military museums or displays
- Historical monuments with a connection to military history
- Local military-related monuments or statues
- Veterans' (VFW, American Legion, IAVA) halls or events
- Military unit events, ceremonies (such as changes of command) or gatherings
- Maintenance Mondays or other maintenance-focused events

Be mindful of OPSEC when you take your photos and, it should go without saying, that they should be in good taste and positively reflect you, your unit and your service. If you have any doubts, get with your unit public affairs officer, specialist or representative for guidance.

Send your photos to the email below with a brief description of the place or event Flat Half-Mast is visiting or participating in and we'll post them on our website and selectively on our social media platforms.

usarmy.redstone.asc.mbx.psmag@army.mil

**FLAT
HALF-MAST**

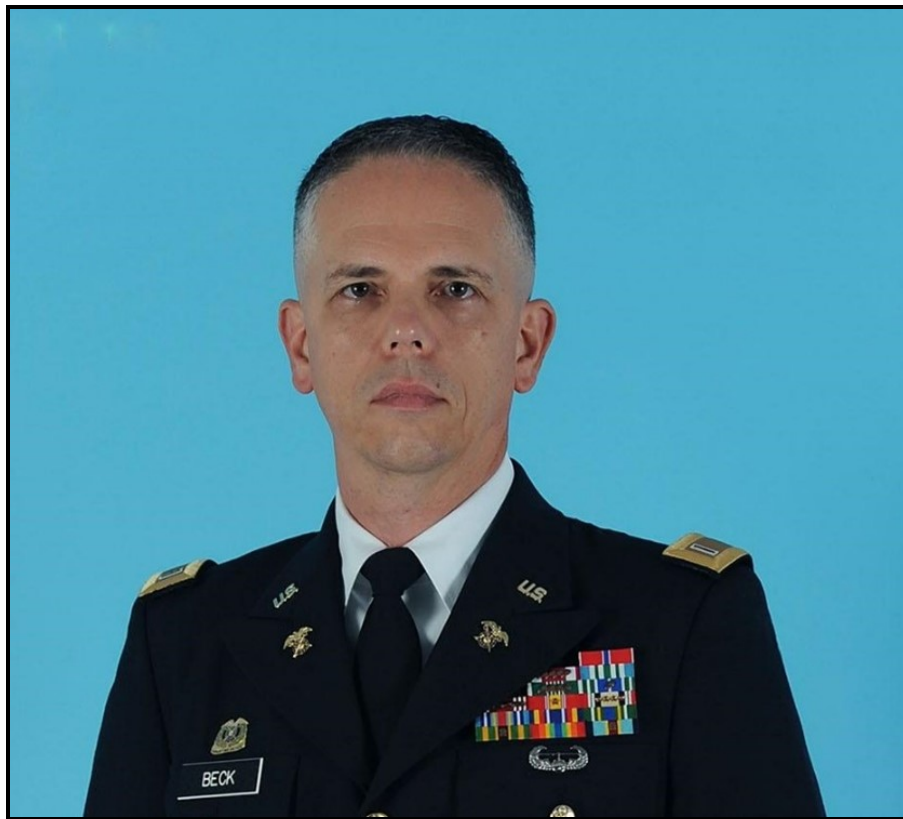


[Click on image above to open PDF version](#)



Leader Interview: CW5 Beck, ASC Stockage Determination

/ Published Jan. 23, 2023



CW5 John P. Beck, Deputy ASC Stockage Determination Branch

MSG Half-Mast didn't have to travel far to meet with CW5 John P. Beck, the Deputy of the Stockage Determination Branch, a subordinate activity of Army Sustainment Command, located on Redstone Arsenal, Alabama. That's because he just strolled next door and met with Mr. Beck to learn about stockage determination and its impact on the Army.

Mr. Beck is a native of Wauseon, OH, and entered active service in August 1986. After attending basic and advanced individual training, he was awarded the MOS of 76P10M6, Materiel Control and Accounting Specialist and was initially

assigned to the 41st Area Support Group, Ft Clayton, Panama. He's served in a variety of logistical positions while enlisted, ranging from supply support activities to depot repair facilities. He was accepted into the Warrant Officer program in 1997 and completed the training that same year. Some of his previous assignments include Production Support Center Operations Officer, Logistics Support Activity (LOGSA); Expert Authorized Stockage List (ASL) Team Deputy, LOGSA; and Supply and Services Branch OIC, 21st Theater Sustainment Command. He's deployed in support of logistics and sustainment operations with the 317th Maintenance Company, 71st Combat Service Support Battalion and the 16th Sustainment Brigade in support of Operation Iraqi Freedom. He assumed his present duties in November of 2020.

MSG Half-Mast: Chief, it's great for you to share some of your sustainment knowledge with our readers. Briefly describe the mission of the Stockage Determination Branch, Redstone Arsenal (RSA) Alabama.

Mr. Beck: The Stockage Determination Branch (SDB) is the Army's single source for developing and implementing authorized stockage lists (ASLs), which directly support unit and fleet readiness across the Army. Using a standardized, data-driven approach, along with approved business rules, SDB generates and updates ASLs for all tactical Supply Support Activities (SSA), Installation Supply Support Activities (ISSA), Army Prepositioned Stocks (APS) and theater ASLs throughout the Army.

MSG Half-Mast: Could you explain for our readers what authorized stockage lists (ASLs) are and how your team develops them? What determines when and how an ASL is changed or updated?

Mr. Beck: The organization of an SSA is structured under either an MTOE or TDA. SSAs are supply distribution activities that provide multi-class support including 2, 3 (packaged), 4, 7, 8, and 9 supplies directly to the using units or maintenance activities on a customer support basis. Every Stock Record Account (SRA) with a GCSS-Army Plant 2001 is authorized a national-level coordinated ASL and each SSA will develop a distinct ASL coordinated through the Army Sustainment Command (ASC) SDB.

The sole purpose of the ASL is to support the Warfighter by ensuring that mission-critical Class (CL) IX parts are available for issue allowing combatant commanders to build combat power in both garrison and high-OPTEMPO environments. Our team leverages several different models based on demand and consumption data to determine the optimal breadth and depths for each ASL.

All ASLs must be reviewed at least annually (and sometimes more frequently) based on geographical location or theater of operation. SDB maintains an ASL management schedule on our SharePoint site that identifies the month and year for scheduled reviews. It's accessible by anyone with a CAC.

MSG Half-Mast: In what ways do ASLs contribute to overall sustainment and readiness?

Mr. Beck: Without an optimized ASL, the warfighter is at the mercy of national supply chains, aerial ports and seaports of debarkation (APODs/SPODs) congestion and snarled distribution networks, all of which could severely degrade the readiness of key combat systems. Having a fully stocked ASL, complemented by a high-performing SSA, allows critical combat systems to operate in high-OPTEMPO environments with little to no interruptions of parts availability.

MSG Half-Mast: Perhaps, related to the last question, discuss the impact ASLs have on front-line units and Soldiers. Conversely, how might Soldiers impact ASL development? For example, can they make recommendations?

Mr. Beck: Within the constraints of our current enterprise resource planning (ERP) capability--GCSS-A, having access to accurate empirical data is crucial to ensuring our modeling software can make the correct recommendations. Accurately capturing all CL IX requirements, ensuring the status of equipment is updated correctly and timely in GCSS-A, as well as bringing inventory to record and accounting for it accurately, are all essential tasks and typically part of daily battle drills at the tactical unit level. Leaders must ensure that the SSAs, motor pools and supply rooms are adequately staffed with trained personnel to accomplish these foundational tasks. If not, it makes identifying critical repair parts much more difficult.

Additionally, having subject-matter experts (SMEs) involved during the ASL review process is key to a successful review. It allows for SMEs to cross talk among their sister units and identify CL IX nuances that the models may have overlooked and elevate them to the appropriate level within their organizations for further consideration.

MSG Half-Mast: US Army Sustainment Command (USASC) has been very involved with supporting sustainment operations in the EUCOM area of operation, particularly tied to Ukraine. What are some lessons learned or takeaways arising from these

operations in terms of ASL development?

Mr. Beck: The major hurdle with developing the right ASL support packages, specifically with the support to the Ukraine conflict, was the age of equipment sets. Whether it was MRAPs or older howitzer platforms or radar systems, there were difficulties first with identifying the most critical repair parts and then their availability. Many of these older systems hadn't been exercised in several years, so our ability to leverage the normal empirical data sets was diminished.

Of course, this made it more difficult for SDB to home in on the critical parts, not to mention that many of these repair parts no longer exist within the usual supply chains. This fact forced us to think outside the box by leveraging the Equipment Downtime Analyzer (EDA), historical databases for demands and consumptions and ASL review recommendations during past theater conflicts. Combining these resources enabled us to satisfy sustainment requirements.

MSG Half-Mast: Any final thoughts you'd like to share with *PS* readers?

Mr. Beck: Army logistics and sustainment are complicated, but they don't have to be. Spend time learning your craft, know where your organization fits into the larger picture and commit to being part of the solution, versus part of the problem.
Most importantly – be proud of what you are doing for the Army!



Photo by [Pvt. Kenneth Barnet](#)



Soldier Support: Info about Soldier Referral Program

/ Published Jan. 24, 2023

BLUF: You can help the Army meet its recruiting goals. Here's how.



Photo by [Sgt. Sarah Enos](#)

The Secretary of the Army, Army Chief of Staff and Sergeant Major of the Army just announced the **Soldier Referral Program**, a new recruitment initiative to Soldiers who make prospective-Soldier referrals and bring more talented volunteers into the

Army family. Incentives include recruiting ribbons and the potential for early promotion.

Although these incentives are intended for currently-serving Soldiers, there's a role for family members, retirees and civilians, too; they can provide critical assistance to uniformed personnel in identifying and referring new recruits.

For details and more info on how to participate, see the official letter [HERE](#).



Half-Mast Sends: Keep on Trucking

/ Published Jan. 26, 2023

BLUF: The war in Ukraine offers some valuable maintenance and logistics lessons-learned, chiefly to focus on the BASICS!



Photo by Tech. Sgt. Michael Matkin

The war in Ukraine is offering a lot of lessons. The question is: Are we learning them?

Take a moment and read [this CNN article](#). (A PDF version is found [HERE](#).)

If you're a vehicle driver or mechanic, particularly of wheeled vehicles, here are some important takeaways from the article:

- They may not be glitzy or high-tech, but trucks and trailers are the workhorses of the Army.
- Vehicles need to be exercised routinely while in garrison.
- Sometimes the obvious, such as tires, gets ignored.
- PMCS, PMCS, PMCS

It's easy to think the problems plaguing the Russian army or any adversary are unique to them and attributable to their flawed system. But if we ignore maintenance and supply basics, we run the risk of reducing, even crippling, our combat power just when it's needed most.

Here are a few articles from the PS archive that will assist you and your team with ensuring your vehicles and equipment are combat ready when they need to be:

[**Cold Weather: Some Must-Read PS Articles to Prepare, Plan & Train**](#)

[**Tactical Vehicles: Shocking Truth behind Defective Batteries**](#)

[**Tactical Vehicles: Five Steps to Install Batteries Right**](#)

[**Be Prepared for Hot Weather: A List of Must-Read PS Articles**](#)

[**Corrosion: Bust Rust with TACOM CCI Checklists**](#)

[**Corrosion: Cleaning is Key to Prevention**](#)

[**Tactical Wheeled-Vehicles: Safe Slave Starting**](#)

[**Ground Vehicles: Drive Like Your Life Depends on It!**](#)

[**M1-Series Tank: Road Testing Part of PMCS**](#)

[**M1-Series Tanks: Check Road Wheel Hub Oil Levels**](#)

[**M1-Series Tanks: Regular Engine Starts Enhance Readiness**](#)

[**M88-Series Recovery Vehicles: Wait Before Checking Oil**](#)

[**Combat Vehicles: Don't Overlook BII, COEI**](#)

[**M88-Series Recovery Vehicles: PM Keeps Winches Working**](#)

[**M113A3-Series FOV: Inspect Exhaust Manifold and Heat Shield Covers Regularly**](#)

[**M2/M3 Bradley: Basic Maintenance Keeps Your Mission on Track**](#)

[**Stryker: Calibrate and Maintain Height Management System**](#)

[Patriot Missile System: Pinpoint PM](#)

[HIMARS: How-to Tips](#)

[MLRS: PMCS Multiplies Performance](#)

[60mm Mortars: Don't Slack on Preventive Maintenance](#)

[Maintenance Training: Find Every Chance to Teach](#)

[PMCS: Good PM Takes More Than Just the TM](#)

Another way to reinforce the basics is to shine a light on those Soldiers and Warfighters who focus on the basics, take full ownership of their assigned vehicle(s) and equipment and complete all their preventive maintenance checks and services (PMCS) with pride. Or, similarly, recognize civilian maintainers who go above and beyond sustaining Army fleets.

PS Magazine has two recognition programs that seek to spotlight deserving individuals. To nominate a deserving Soldier, Warfighter from another service, or civilian sustainer, visit our **Recognition Programs** page [HERE](#).

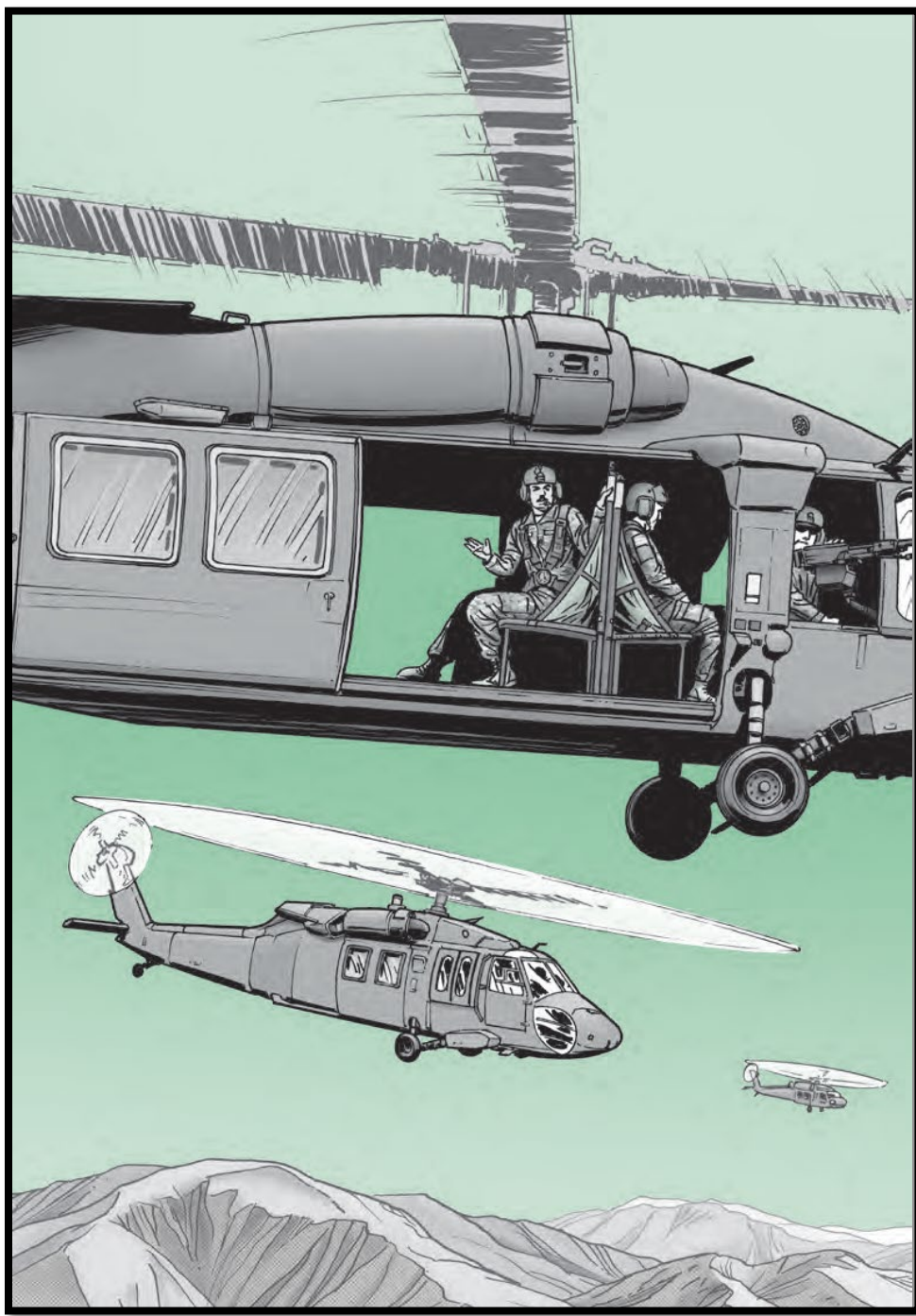


"I Own This" recognizes Soldiers/Warfighters; "I Sustain This recognizes civilian sustainers

Click on each image for more information

Half-Mast

Aviation





UH-60: Corrosion Compound Now Authorized for Stabilator

/ Published Jan. 3, 2023

BLUF: Several TM work packages are being corrected to allow limited application of Cor-Ban 27L corrosion preventive compound on the stabilator.



Photo by 1st Lt. Travis Mueller

Mechanics, several UH-60 stabilator work packages (WPs) are being updated to permit the use of corrosion preventive compound, Cor-Ban 27L, NSN 6850-01-469-7645, as the primary coating on the **shank** portion only of the right and left stabilator attachment bolts. See the TM references below:

TM	WP
1-1520-237-23&P (Mar 22)	0567
1-1520-246-23&P (Jun 21)	0331
1-1520-280-23&P (May 22)	0623

Currently, TM 1-1520-280-23&P instructs maintainers to use sealing compound, CA 1000, NSN 8030-01-450-0381, but it's only authorized as an alternative coating for installation of the right and left bolts.

TM 1-1520-237-23&P and TM 1-1520-246-23&P currently tell maintainers to use antiseize compound, MIL-T-83483, NSN 8030-00-087-8630. Both TMs will be changed to make Cor-Ban 27L the primary coating and sealing compound. CA 1000 will remain an authorized alternative coating.

Note that Cor-Ban 27L or CA 1000 may also be applied to the exposed threads on the left and right bolt after the nut is torqued and cotter pin is installed.

This information will appear in the next update of the TMs identified in the table above.



Black Hawk: New Inspection Criteria for HSS Expandable Pins

/ Published Jan. 3, 2023

BLUF: Inspection criteria for the HSS expandable pins has changed and the relevant work packages must be updated.



Photo by 1st Lt. Travis Mueller

Mechanics, there's new inspection criteria for the horizontal stores support (HSS) expandable pins; as a result, the following aviation TM work packages (WPs) need to be updated in IADS.

TM Number	WP Title
TM 1-1520-237-23 (Mar 22)	External Stores Support System (ESSS) Inspections
TM 1-1520-237-23 (Mar 22)	Horizontal Stores Support (HSS)
TM 1-1520-280-23&P (May 22)	Crashworthy Extended Range Fuel System (CEFS) Inspections

TM 1-1520-280-23&P (May 22)	Horizontal Stores Support (HSS)
TM 1-1520-246-23&P (Jun 21)	Crashworthy Extended Range Fuel System (CEFS) Inspections
TM 1-1520-246-23&P (Jun 21)	Horizontal Stores Support (HSS)

Currently, the guidance is to replace the HSS expandable pins if they've been installed, locked and stored in the fitting for over a year. However, a new inspection procedure allows these pins to remain in service for longer. But only after they've been inspected.

The inspections are lengthy and detailed, so units **must** contact the PM to get the inspection criteria. Contact the PM at:

usarmy.redstone.peo-avn.mbx.h60-avn-msg-reporting@army.mil

Post the changes to the work packages in accordance with general Aviation Maintenance Action Message, GEN-20-AMAM-04. The AMAM explains the step-by-step details on posting electronic changes in IADS.

View and download the AMAM [HERE](#).

Click on [Consolidated Listings](#), select [Aviation](#) as the Record Type, [GEN](#) as System Type and [AMAM](#) as Message Type. Then click [Search](#). Results are listed in chronological order.

Also, check out the IADS article titled, *IADS: Export and Import Function Enables Sharing of Notes*, [HERE](#).



AH-64/H-60: Sign Up for T700 Engine Classes for 2023

/ Published Jan. 10, 2023

BLUF: General Electric has announced its 2023 training schedule for classes on the T700-series engine.



Courtesy Photo

Getting T700 engine training keeps mechanics up to date on maintaining their aircraft. General Electric will again be offering line maintenance training in 2023. The first class in February is already full, so units should sign up ASAP.

For more details, check out the Utility Helicopter Newsletter (Nov-Dec 2023) attached [HERE](#) to get all the details on class requirements and the 2023 course schedule.

Note that fill rates may have changed since the newsletter was published, meaning fewer slots may be available than listed.

Contact the AMCOM POC, Marlayna Dotson, for scheduling at:

marlayna.p.dotson.civ@army.mil



Aviation Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for aviation, as well as NSN turn-ins that are needed for repair.



Photo by [Sgt. Claudia Nix](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, corrected, updated or rescinded NSNs. Why's that?

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More often, it's our readers that notice an incorrect NSN in a TM or try to order a part and discover that the NSN they're using is no longer valid and they reach out to *PS*.

After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand. You can check out these articles addressing DD Form 1348-6 [HERE](#) and [HERE](#).

New or updated NSNs captured for aviation in 2022
(clicking on NSNs or items in blue hyperlinks to related article)

Shadow Cover NSNs

Item	NSN
Shadow covers	Numerous; see article

All Aircraft Turn-In Component NSNs

Item	NSN
ARC-231 receiver transmitters	5821-01-500-4770
KAB mounts	5975-01-555-9367

MEDEVAC NSNs

Item	PN	NSN
BAM window latch Rim latch set (L/H)	1049584-10	1560-01-701-9385
BAM window latch Rim latch set (R/H)	1049584-30	1560-01-702-6466
Oxygen flow meter adapter	33-2600	6515-01-298-8018
Lift bag kit (cargo set, heavy lift)	KT-694	3990-01-694-4332
MEDEVAC mission sensor (MMS) adapter plate		5340-01-614-9602

Chinook NSNs

Item	NSN
O-rings and packings (engine fuel manifold)	5331-01-703-3320
Cockpit sunshade kit	1680-01-661-1895
Cabin sunshades	1680-01-661-1937

Chinook Rotor Blade Stand NSNs

Item	PN	NSN
Angle aluminum, 2x2-in		9540-00231-9911
Lumber, 2x4-in		5510-00-267-2283
Machine bolt (27 ea.)	AN5-7A	5306-01-450-4885
Flat washer (54 ea.)	NAS1149F0563P	5310-00-167-0820
Self-locking nut (27 ea.)	MS21044N5	5310-00-088-0553
Felt strip		8305-00-812-2360

AGSE NSNs

Item	PN	NSN
Engine oil filter	XP4903180	2940-01-682-2228
Fuel/water separator	171081-55910	4730-01-682-2492
Hydraulic filter	740582032	2940-01-682-8317
Left polymer door (ALUMMC)	AM147742	2510-01-659-4135
Right polymer door (ALUMMC)	AM147743	2510-01-659-4132
Polymer door kit (ALUMMC)	BM26111	2510-01-659-4150
GANG tire and wheel assembly	581952-001	2530-01-506-2183
3T tripod jack	L10532	1730-01-537-4357 1730-01-541-3186 1730-00-734-9382
5T tripod jack	L10559	1730-00-516-2018
5T axle jack	L09135	1730-00-540-2343
10T axle jack	L09340	1740-00-203-4697
10T tripod jack		1730-01-563-7046
12T tripod jack	L10589	1730-00-912-3998
Jack Rebuild Kits		
Columbus Regent 12-ton jack		2590-01-642-3505

Malabar 12-ton jack	1730-01-500-4443
10-ton axle jack	1730-00-673-4717
5-ton axle jack	1730-00-673-4716

AGSE Maintenance Platform NSNs

Item	NSN
B-1 stand	1730-00-390-5618
B-4A Adjustable stand	1730-00-294-8883
Low Level stand	1730-00-269-8283
Low Level Maintenance Stand Part NSNs	
Item	NSN
Rigid caster	5340-01-340-9799
Quick-release pin	5315-00-935-8804
Latch assembly-clamping catch	5340-00-787-3209
Catch and strike	5340-01-295-4896
Clamping catch	5340-00-821-0304
Clamping latch catch spring loaded	5340-00-860-3862

Component Turn-In NSNs for H-60

Item	NSN
Vaneaxial fan	4140-01-424-9956
Vaneaxial fan	4140-01-329-3428
300-watt 7-ohm resistor	5905-01-698-8444
Radio receiver, LF/ADF, ARN-149(V) R-2382/ARN-149(V)1	5826-01-600-6180
Impedance amplifier, AM4859A/ARN-89	5826-00-001-4074
Radio receiver, R-2593/ARN-147(V)	5826-01-444-0314
Flight control panel, (C-10909E/A)	1680-01-544-7218
Drive shaft assembly	1615-01-491-1924

APN-209 radar altimeter	5841-01-547-5286
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Apache NSNs

Item	NSN
Electronically erasable programmable read-only memory (EEPROM)	1220-01-605-5217
Fluke® 27-II multimeter	6625-01-581-4058
Apache covers	Numerous: see article

Component Turn-In NSNs for Apache

Item	PN	NSN
EDECU		2995-01-680-3143
STAMP	1080750	4920-01-698-5843
Radio frequency amplifier	60083097-000	5996-01-616-4318
Receiver-transmitter rover	60082784-002	5820-01-616-4318
Computer digital DA	3000649000	5895-01-677-5223
Carrier drive assemblies	7-317236502-5	1005-01-221-7602



AH-64/H-60: T700-GE-701D Engine Gets Newer PTM

/ Published Jan. 19, 2023

BLUF: The T700 engine gets a new Power Turbine Module (PTM) starting in January 2023.



Courtesy photo

Mechanics, the newest T700 engine power turbine module (PTM), NSN 2840-01-692-2620, PN 6071T26G05, is scheduled for release starting this month (Jan 23) for engines with serial number GEE941157 and higher.

Make a note that the PTM incorporates an oil jet for C-sump lubrication supporting rotor brake operations. Corpus Christi Army Depot (CCAD) will continue to send out PTMs with PN 6071T26G02 for units needing them until all affected aircraft are converted to the newer PTM, PN 6071T26G05.



AH-64/H-60: Managing Compressor Issues and Engine Noise

/ Published Jan. 20, 2023

BLUF: The Utility Helicopter Project Office offers guidance on ways to manage compressor issues and engine noise.



Photo by Sgt. Sarah Sangster

Air flow disruption and damaged or bent compressor blades are common when aircraft operate at the lowest of altitudes. Effectively dealing with both compressor issues and engine noise includes engine washes for performance recovery, borescope of the compressor and possibly blending or even clipping the blades.

PM Utility Helicopter offers some guidance on the task of blending the blisks (compressor blades) [HERE](#). You'll need your CAC to access.

It refers to the engine manual, TM 1-2840-248-23&P (EM 0271, Oct 19), which can be searched on the ETM website [HERE](#).

If you have questions on this guidance, contact Michael Weist at:

michael.e.weist2.ctr@army.mil



UH-60V: Mission Equipment Needed for New Aircraft Fielding

/ Published Jan. 20, 2023

BLUF: The fielding of UH-60V MEDEVAC aircraft in FY24 depends on units turning in MEDEVAC mission equipment now.



Courtesy photo

The UH-60V MEDEVAC aircraft begins fielding in FY24. The new aircraft will be fielded based on the availability of mission equipment packages (MEPs), which contain these components: external hoist, TALON turret and the interim MEDEVAC mission support system (IMMSS) for patient handling.

To field the UH-60V aircraft successfully, the Army requires MEDEVAC unit assistance and support to identify and recover MEP components.

If your MEDEVAC unit possesses uninstalled mission equipment, regardless of

condition, contact PD MEDEVAC ASAP to coordinate recovery of that equipment to support the UH-60V MEDEVAC fielding.

You can view the PM Utility Helicopter Newsletter for more details on the MEP component recovery effort [HERE](#).

If you have questions about the MEP and UH-60V fielding, contact Michael Brooks at:

michael.w.brooks28.civ@army.mil



MEDEVAC: Hoist Cowling Modification Reduces Maintenance Burden

/ Published Jan. 26, 2023

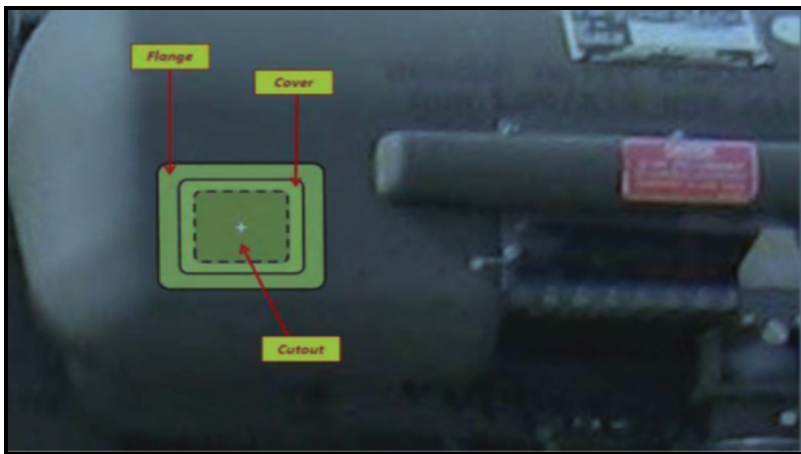
BLUF: MEO B3379 allows for cowling modification on the external rescue hoist to make event counter viewing easier.



Photo by Sgt. Brian Schroeder

Mechanics, when it's time to inspect the Breeze-Eastern external rescue hoist, PN BL-29900-30-1, you also must calculate the hoist cycles. That means doing a full-out and full-in of the entire 295-ft hoist cable.

To accomplish this, you must access the event counter, but that can be a maintenance burden because it requires removing the cowling to view it. To reduce the burden, maintenance engineering order (MEO) B3379 provides instructions on how to modify the rescue hoist. A cowling cut-out and cover plate installation are needed to view the event counter without removing the cowling.



Follow engineering instructions to modify hoist cowling

If your unit wants to perform this MEO modification, reach out to your local or nearest logistics assistance representative (LAR) for all the details. Got questions for PD MEDEVAC? Email Michael Brooks at:

michael.w.brooks28.civ@army.mil



AGSE: Magnetic Particle Inspection Kit Added to NDI Shelter

/ Published Jan. 27, 2023

BLUF: Maintenance information message AGSE-23-MIM-01 adds a new tool, the magnetic particle inspection kit, to the NDI shelter.



Photo by [Staff Sgt. George Prince](#)

Mechanics, per maintenance information message (MIM) AGSE-23-MIM-01, the Aviation Ground Support Equipment (AGSE) Product Office is adding a new magnetic particle inspection kit to the non-destructive inspection (NDI) shelter LIN# S35435, NSN 4920-01-600-7368.



NDI shop set includes magnetic particle inspection kit

The new kit, which will be sent to units by the AGSE PO, allows NDI personnel to conduct the system effectiveness check of aerosol media with portable equipment and the dead weight check of the magnetic yoke kit, as detailed in TM 1-1500-366-23 (Dec 20). For the 10-lb test bar, future procurement after the initial fielding will have to be through local manufacturers.

The kit contains the following items:

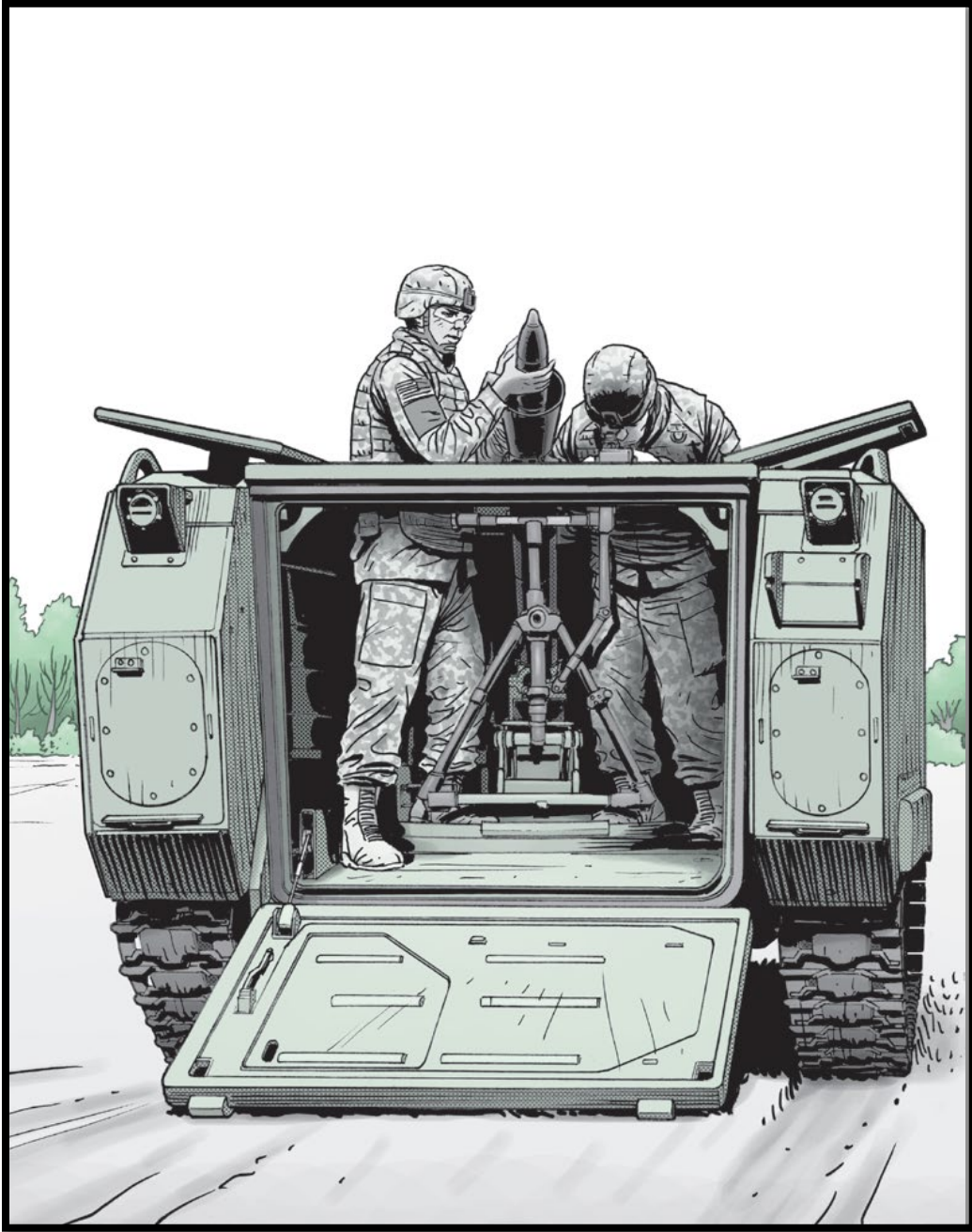
Nomenclature	NSN	CAGE	Part Number	QTY
Quantitative quality indicator	635-01-367-2188	37676	KSCT234	1
Transparent film tape	7510-00-551-9821	0X796	TS-436-50	1
Test bar 10 LBs *				1
Case with foam	**	1TX96	T-1411-CV	1
*Have back shop locally make test bar				
**NSN not assigned. Can be requisitioned by part number only.				

You can view and download the MIM [HERE](#). Pay particular attention to the guidance in paragraph eight (8): Technical Procedures/Instructions.

Click on Consolidated Listings, select Aviation as the Record Type, AGSE as System

Type and MIM as Message Type. Then click Search. Results are listed in chronological order.

Combat Vehicles





M1-Series Tank: Coast Your Way to Proper Track Tension

/ Published Jan. 11, 2023

BLUF: Proper M1-series tank track adjustment involves allowing the tank to coast to a stop before adding grease.



Photo by [Spc. Kelsey M VanFleet](#)

Worn end connectors and cupped sprocket teeth are common problems with M1-series tanks with improperly tensioned track.

Crewmen sometimes pump grease into the track adjusting link and leave it at that. But they're missing a very important step. The TM says when adjusting track tension to move the tank backward 20 feet, then forward 20 feet on a level surface before pumping grease into the track adjusting link.

But don't hit the brakes when doing this. Instead, allow the tank to coast to a stop.

Letting the tank coast to a stop ensures that the track adjusting link is the only thing

pressing against the track when you add grease. If you use the brakes to stop the tank, the weight of the tank is thrown forward when it stops. That leaves some track sections tight and others loose. Adjusting the track then usually results in overtightened track that wears out end connectors and cups sprockets.

You'll find more information about track tension procedures in TM 9-2350-264-10 (Sep 11, w/Ch 4, Jan 18) for the M1A1, TM 9-2350-388-10 (Jan 18, w/Ch 2, Oct 21) the M1A2 SE Pv2 and TM 9-2350-412-10 (Apr 20, w/Ch 1, Jan 22) for the M1A2 SE Pv3.



Combat Vehicles Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for combat vehicles.



Courtesy photo

Introduction

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

That's because *PS* must be aware of new or updated NSNs. Sometimes we get notified by a command like TACOM, CECOM, DEVCOM, etc. Sometimes we're informed of an NSN change by an equipment specialist or LAR and asked to publish the change.

More often, it's our readers that notice an incorrect NSN in a TM or try to order a part and discover that the NSN they're using is no longer valid and they reach out to *PS*. After some investigation on our part, we find the correct NSN and inform the reader.

Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for combat vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

M113A3 FOV Ceramic Exhaust Components

Part	NSN
Metal tube assembly (short curved pipe)	4710-01-492-5972
Turbo supercharger	2990-01-480-3847
Manifolds (2 per engine)	4730-01-492-5996
Connector, exhaust pipe	4730-01-494-4991
Metal tube assembly (long pipe)	4710-01-492-5970

M113A3 FOV Periscope Stowage Box Pin Replacement

Part	NSN
Cotter pin	5315-00-839-2326
Flat washer	5310-00-081-4219
Spring	5360-00-776-1546
Hook	5340-00-932-4989

M1A2 SEPv3 Tank Turret Lifting Kit

Part	NSN
Lifting kit	2590-01-692-8605
5 bolt center eye link	4933-01-692-8220

M1-Series Tanks Cannon Tube Cleaning

Part	NSN
Cleaner, lubricant and preservative (CLP)	9150-01-327-9631
Bore brush	1015-01-209-3483

Chamber brush	1015-01-511-7872
Rammer staff	1015-00-699-0633

M88A2 Recovery Vehicle Semi-Annual Service Kit

Part	NSN
Semi-annual service kit	4910-01-698-9195
Mechanic's side transmission filter kit	4330-01-690-4514

Bradley FOV Towing Shackle Anchors/Lead Acid Turret Battery

Part	NSN
Towing shackle anchor	4030-01-187-0964
4HN 24V battery4HN 24V battery	6140-01-390-1968

M109A7/M992A3 Paladin/Ammo Carrier Cooling System Plenum Assembly

Part	NSN
Quick-disconnect (QD) coupler	4730-01-657-6292
Manifold	2590-01-652-4858
QD coupler O-ring	5331-01-006-9048
Ground hop kit	6110-01-659-0185

M1070A1 HET 5th Wheel Assembly

Part	NSN
5 th wheel assembly	2510-01-599-8628

Heavy Assault Scissoring Bridge (HASB) Grease

Part	NSN
MIL-G-21164 (14 oz	9150-00-935-4018
MIL-G-21164 (1.7 pounds)	9150-00-754-2595
MIL-G-21164 (6.5 pounds)	9150-00-223-4004
MIL-G-21164 (35 pounds)	9150-00-965-2003



M1-Series Tank: Splash Guard Do's and Don'ts

/ Published Jan. 13, 2023

BLUF: Never operate the M1-series tank without the rear splash guard (also known as skirt #7) in place and carefully open skirts to avoid injury.



Photo by [Sgt. Mason Cutrer](#)

Crewmen, operating your M1-series tank without the rear splash guard (also known as skirt #7) can lead to big trouble.



Missing rear mud guard (skirt #7) can lead to engine damage

Running your tank without the rear splash guard allows dust, mud and other debris to overwhelm the pulse jet system (PJS) that keeps the V-packs clean. If the V-packs get dirty, this can lead to very expensive engine damage or even complete engine failure due to foreign object damage (FOD).

So bottom line, always make sure the rear splash guard is installed before driving your tank.

Keep in mind that your tank's skirts are very heavy. Never open skirts 1 and 2, skirts 3 and 4 or skirts 5 and 6 at the same time because they are on the same hinge line. Also, check for missing hinge pins before opening a skirt. Opening two skirts on same hinge line or opening any skirt with a missing hinge pin can cause the skirt to fall and injure someone.

Find more information in TM 9-2350-264-10 (Sep 11, w/Ch 4, Jan 18) for the M1A1, TM 9-2350-388-10 (Jan 18, w/Ch 2, Oct 21) the M1A2 SEPv2 and TM 9-2350-412-10 (Apr 20, w/Ch 1, Jan 22) for the M1A2 SEPv3.



M113-Series FOV: Heater Box Engines Phased Out

/ Published Jan. 23, 2023

BLUF: The M113-series FOV heater box-equipped engine has been replaced by the glow plug engine.



Photo by Spc. Richard Trinh

Heads up! The M113-series FOV's heater box-equipped engine, NSN 2815-01-248-7644, has been phased out and is no longer supported. The replacement is the glow plug engine, NSN 2815-01-412-2715.

If your unit has a vehicle with an unserviceable heater box-equipped engine, you'll need to replace it with a glow plug engine. Keep in mind you'll also need the glow plug conversion kit, NSN 2815-01-653-9437. The kit upgrades the vehicle's electrical system so it's compatible with the glow plug engine.

Also, don't dispose of unserviceable heater box-equipped engines. Turn them in to the supply system.



Half-Mast Sends: Keep on Trucking

/ Published Jan. 26, 2023

BLUF: The war in Ukraine offers some valuable maintenance and logistics lessons-learned, chiefly to focus on the BASICS!



Photo by [Tech. Sgt. Michael Matkin](#)

The war in Ukraine is offering a lot of lessons. The question is: Are we learning them?

Take a moment and read [this CNN article](#). (A PDF version is found [HERE](#).)

If you're a vehicle driver or mechanic, particularly of wheeled vehicles, here are some important takeaways from the article:

- They may not be glitzy or high-tech, but trucks and trailers are the workhorses of the Army.
- Vehicles need to be exercised routinely while in garrison.
- Sometimes the obvious, such as tires, gets ignored.
- PMCS, PMCS, PMCS

It's easy to think the problems plaguing the Russian army or any adversary are unique to them and attributable to their flawed system. But if we ignore maintenance and supply basics, we run the risk of reducing, even crippling, our combat power just when it's needed most.

Here are a few articles from the PS archive that will assist you and your team with ensuring your vehicles and equipment are combat ready when they need to be:

[**Cold Weather: Some Must-Read PS Articles to Prepare, Plan & Train**](#)

[**Tactical Vehicles: Shocking Truth behind Defective Batteries**](#)

[**Tactical Vehicles: Five Steps to Install Batteries Right**](#)

[**Be Prepared for Hot Weather: A List of Must-Read PS Articles**](#)

[**Corrosion: Bust Rust with TACOM CCI Checklists**](#)

[**Corrosion: Cleaning is Key to Prevention**](#)

[**Tactical Wheeled-Vehicles: Safe Slave Starting**](#)

[**Ground Vehicles: Drive Like Your Life Depends on It!**](#)

[**M1-Series Tank: Road Testing Part of PMCS**](#)

[**M1-Series Tanks: Check Road Wheel Hub Oil Levels**](#)

[**M1-Series Tanks: Regular Engine Starts Enhance Readiness**](#)

[**M88-Series Recovery Vehicles: Wait Before Checking Oil**](#)

[**Combat Vehicles: Don't Overlook BII, COEI**](#)

[**M88-Series Recovery Vehicles: PM Keeps Winches Working**](#)

[**M113A3-Series FOV: Inspect Exhaust Manifold and Heat Shield Covers Regularly**](#)

[**M2/M3 Bradley: Basic Maintenance Keeps Your Mission on Track**](#)

[**Stryker: Calibrate and Maintain Height Management System**](#)

[Patriot Missile System: Pinpoint PM](#)

[HIMARS: How-to Tips](#)

[MLRS: PMCS Multiplies Performance](#)

[60mm Mortars: Don't Slack on Preventive Maintenance](#)

[Maintenance Training: Find Every Chance to Teach](#)

[PMCS: Good PM Takes More Than Just the TM](#)

Another way to reinforce the basics is to shine a light on those Soldiers and Warfighters who focus on the basics, take full ownership of their assigned vehicle(s) and equipment and complete all their preventive maintenance checks and services (PMCS) with pride. Or, similarly, recognize civilian maintainers who go above and beyond sustaining Army fleets.

PS Magazine has two recognition programs that seek to spotlight deserving individuals. To nominate a deserving Soldier, Warfighter from another service, or civilian sustainer, visit our **Recognition Programs** page [HERE](#).

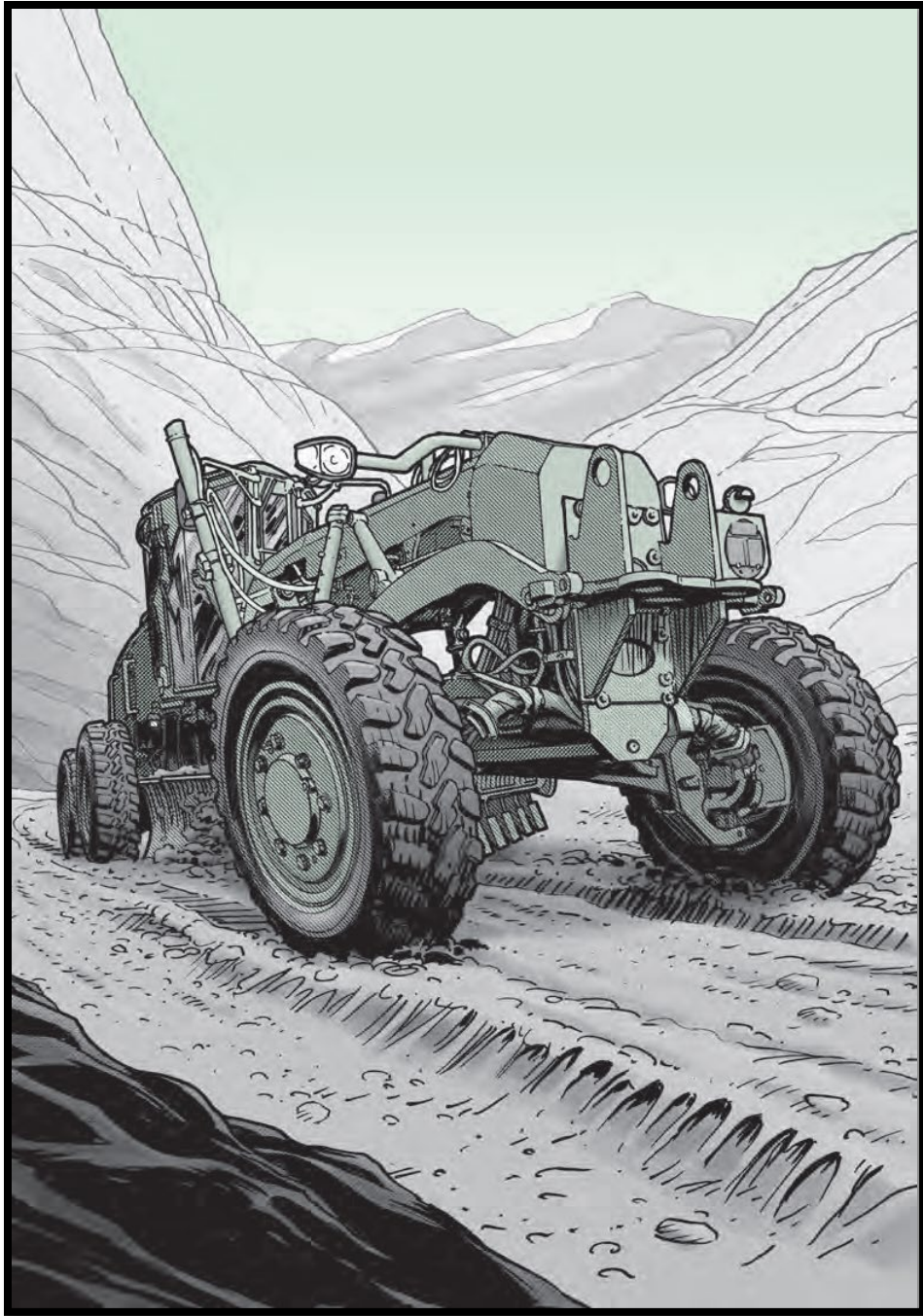


"I Own This" recognizes Soldiers/Warfighters; "I Sustain This recognizes civilian sustainers

Click on each image for more information

Half-Mast

Construction





Construction Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for construction equipment and vehicles.



Photo by [Capt. Andrew Czaplicki](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for construction equipment and vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

End Item	Part	NSN
40-ton Grove Crane RTCC	Entire vehicle	3810-01-205-2716
22-ton Grove Crane	Grease caps	4730-00-289-8148
TWPS	RO pump	4320-01-531-1844
MW24C Scoop Loader	Old J.I. Case Dealer parts	Order parts here
M400W Skid Loader	Door assembly	2510-01-593-8321
HYEX	Rust inhibitor	8030-01-127-4187
RCV Buffalo A2	Anti-seize compound	8030-01-087-8254
M160 Light Flail	Front camera	6720-53-000-0665
M160 Light Flail	Rear camera	6720-53-000-0664
M160 Light Flail	Front camera wiring harness	6150-53-000-0373
M160 Light Flail	Rear camera wiring harness	6150-53-000-0294
M160 Light Flail	10-in coaxial cable	5995-01-668-6980
M160 Light Flail	M160 desktop trainer	6910-01-654-9345

Other NSNs covered in 2022

Item	NSN
Dessiccant bags, 300	6850-00-264-6571
Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 1-qt	9150-01-648-5541

Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 5-gal	<u>9150-01-648-5549</u>
Artic engine oil synthetic multi-purpose lubricant (OE/HDO-SMPL-I), 55-gal	<u>9150-01-648-5553</u>



966H Scoop Loader: Complete Joystick NSN

/ Published Jan. 31, 2023

BLUF: Use NSN 2520-01-619-2035 to order a complete joystick for your 966H scoop loader.



Photo by Spc. Christopher Shannon

This post script initially appeared in PS 800 (Jul 19), p. 61.

To get a **complete** electrohydraulic joystick for your 966H scoop loader, order NSN 2520-01-619-2035.

Use NSN 2520-01-557-4374, which is shown as Item 1 in Fig 151 of TM 5-3805-291-23P (Jan 10), if you **want only** the top handle control of the joystick.

Editor's Note (Jan 23): A senior technical representative with the 406th Army Field Support Battalion at Fort Drum has noticed that units are still ordering the NSN for the top handle control when they actually need the complete joystick. Make a correction in your TM until it's updated.

Commo/Electronics





KG-175D: Battle Blackout! Mind TACLANE Checks

/ Published Jan. 5, 2023

BLUF: Account for clock drift and monitor battery life for the KG-175D TACLANE-Micro Inline Network Encryptor,



Courtesy photo

This article initially appeared in PS 800, p.45 (Jul 19).

Dear Editor,

When observing signal maintenance, I noticed a lot of operators were unfamiliar with the KG-175D TACLANE-Micro Inline Network Encryptor, NSN 5810-01-547-4520, Human-Machine Interface in the AN/TTC-64 Battalion Command Post Node.

Specifically, the operators aren't validating clock drift and battery life for their KG-175D TACLANE. TM 11-5810-422-13 (Nov 08) recommends that operators check clock drift for accuracy once every six months, and make adjustments if needed to prevent communication blackouts.

The TM also recommends a battery change every 12 months or when the BATTERY LOW status LED is lit. This prevents the TACLANE from losing data or going into tamper mode when there is power loss. The instructions for clock drift are found in Para 3.1, Section II, Chap 3 in TM 11-5810-422-13. Battery replacement is covered in

CW3 Kelshall Williams

Korea

Editor's note: *You've communicated some mighty good points here, Chief!*

Important! The Communications Security experts also want to stress that you should make sure the KG-175D is powered ON when changing the battery. If you change out the battery without powering on the device first, you'll trigger the tamper mode and a host of headaches. If that happens, follow the troubleshooting guidance in Section III of the TM. Also, the KG-175D TACLANE doesn't take a standard AA battery. Order battery NSN 6135-01-358-7471 when it's time to replace it.



Publications: AN/MRC-150A TM Released

/ Published Jan. 10, 2023

BLUF: TM 11-5865-2073-13&P (Dec 22) for the AN/MRC-150A communication system is now available.



Photo by [1st Lt. Angelo Mejia](#)

TM 11-5895-2073-13&P (Dec 22) for the AN/MRC-150A communication system, NSN 5895-01-663-7740, has been released. This operator and field maintenance TM includes the RPSTL.

The TM is restricted so you'll need your CAC to access it. Search for the TM [HERE](#).



Soldier Support: LAR Toolbox Revisited

/ Published Jan. 10, 2023

BLUF: A LAR toolbox is available again, covering power generation and environmental systems.



Photo by [Cameron Porter](#)

Dear Editor,

I've submitted several articles over the years to assist Army maintainers with both technical and logistical issues for power generation and environmental systems. Here's good news: The CECOM Power and Environmental LAR Resource Center finally has its files on MS Teams to assist maintainers. The files cover military standard equipment and some of the commercial systems that may be encountered during deployments worldwide.

Maintainers can access the LAR Toolbox [HERE](#) (a page will appear indicating that permission is needed to access the site; they just type in their request and submit).

Once in the site, they'll find TMs and many other training aids.

Sam Harden

407th AFSBn

Editor's note: *We took a peek, Sam, and the toolbox is a great repository of P&E info. Thanks for sharing this resource.*



Commo/Electronics & Soldier Support Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for commo/electronics and Soldier support.



Photo by [Cpl. Christian Garcia](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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and discover that the NSN they're using is no longer valid and they reach out to *PS*. After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for communications and electronic equipment and Soldier support items in 2022:

(clicking on NSNs or items in blue hyperlinks to related article)

Commo/Electronics

Item	Nomenclature	NSN
Advanced Battery Charger	Charger, battery	6130-01-660-3696
• Adapter BTA-70100-1 For models: • BB-2590 • BB-390 • BB-2557	Adapter, battery charger	6130-01-667-1471
• Adapter BTA-70100-2 For models: • AN/PRC-148 radio battery • AN/PRC-152 radio battery • D Size NiMH batteries • AA Size NiMH batteries	Adapter, battery charger	6130-01-667-1500
AN//PVS-14 NVD	Single battery housing	5855-01-523-4058
M20 Antenna Components	Antenna, M20	Numerous; see article
STT's replacement 9200L switch	Switching group, DIG	5895-01-619-8977

Soldier Support

Item	Nomenclature	NSN
ULCANS Camouflage	Desert/Urban, General Purpose, Radar Scattering (R/S)	1080-01-475-0696
ULCANS Camouflage	Desert/Urban, Communications, Radar Transparent (R/T)	1080-01-475-0694
Clothing	Army rank insignia	Numerous; see article
Clothing	Unit patches for OCP uniforms	Numerous; see article
Tactical water purification system	Pump unit, centrifuge	4320-01-531-1844



Lithium Batteries: Don't Get Burned By Wrong Type

/ Published Jan. 20, 2023

BLUF: Use only 1.5V AA lithium batteries in sights and night vision equipment.



Photo by [Master Sgt. Becky Vanshur](#)

This article initially appeared in PS 797 (Apr 19), pp.53-54.

Dear Editor,

One of our Soldiers recently loaded six 3.6V AA lithium batteries in an AN/PAS-13C(V)2 MWTS thermal weapon sight instead of the standard 1.5V AA lithium battery. The sight exploded, burning the Soldier's hands and causing temporary hearing loss.

Please emphasize to Soldiers that they should always use **1.5V AA lithium** batteries in their sights, night vision devices and other equipment unless the item's -10 TM says otherwise.

Editor's note: *Excellent point, John.*

Since all AA batteries are the same size, it's critical that Soldiers actually check the voltage listed on the lithium battery. That's the only way you know for sure you're using a 1.5V AA. You can't go by color because both batteries come in several colors.

Units must make a point to keep 1.5V batteries segregated from 3.6V batteries used with other devices so they aren't mixed up. If Soldiers are using equipment that does use the 3.6V battery, they should make sure to keep the 3.6V batteries separate in their packs so they don't accidentally use the wrong battery.

A warning will be added to the various -10 and -23&P TMs that says: **Using AA batteries other than 1.5V will cause damage to this equipment and may explode, causing serious injury to the user. DO NOT USE AA BATTERIES OTHER THAN 1.5V.**

Here's a partial list of sights and NVDs that use 1.5V lithium batteries:

- AN/PAS-13C/D/E/G thermal weapon sights
- AN/PAS-35 night vision viewer
- AN/PAS-36 night vision viewer
- AN/PSQ-20A/B enhanced night vision goggles
- AN/PSQ-39 enhanced night vision goggles III
- AN/PSQ-40 enhanced night vision goggles III
- AN/PVS-7B/D night vision goggles
- AN/PVS-14 monocular night vision device
- AN/PVS-6(V)1/1A/1B/2/3 aviator's night vision imaging systems

Of course, many hand-held devices also use 1.5V lithium batteries. When in doubt about what battery to use, always check the -10 TM.



AN/PRQ-7 CSEL: Order Non-rechargeable Batteries

/ Published Jan. 24, 2023

BLUF: Order non-rechargeable CSEL batteries rather than rechargeable batteries until the latter is replenished.



Graphic by [David Perry](#)

Effective immediately, subject to mission requirements, unit supply officers should order BA-5301A/U, Combat Survivor/Evader Locator (CSEL) **non-rechargeable batteries**, **NSN 6135-01-568-3234**, instead of BB-2001 A/U CSEL rechargeable batteries, **NSN 6140-01-534-3856**.

If a current requisition exists for the rechargeable battery, NSN 6140-01-534-3856, cancel the order and submit a new requisition for the non-rechargeable battery, NSN 6135-01-568-3234.

These two CSEL batteries have the same form, fit and function. The reason for the

substitution is that the Army has a greater supply of the non-rechargeable batteries. They are immediately available until the rechargeable batteries stock is replenished.

For answers to your questions, contact Luis A. Beltran at:

luis.a.beltran.civ@army.mil

or

usarmy.apg.cecom.mbx.ilsc-pe-pscoe-support@army.mil



SINGGARS: M917 Dump Truck Not on List

/ Published Jan. 24, 2023

BLUF: There is no SINGGARS installation kit for the M917 dump truck.



Photo by [Capt. Jose Lopez Jr.](#)

Dear Half-Mast,

I'm looking for the correct Single-Channel Ground and Airborne Radio System (SINGGARS) installation kit (IK) for the M917 dump truck. I've reviewed SB 11-131-2, *Vehicular Radio Sets and Authorized Installations Volume II: SINGGARS FHMUX and EPLRS* (Sep 05), but I couldn't find any reference for the dump truck IK.

Is the driver supposed to use the SINGGARS manpack instead?

R.R.

Dear Sir,

Before answering your direct question, I reviewed all the technical documents we have for the SINCGARS IKs and couldn't find one for the M917 dump truck. I confirmed this fact with a subject matter expert who previously worked on SINCGARS integrations. The development of the SINCGARS IK for the M917 dump truck hasn't happened and isn't planned anytime soon.

Now to your question: The SINCGARS manpack isn't designed for vehicular use. Having a driver wear the SINCGARS manpack isn't an option due to potential safety issues that could result in injury or death.

Half-Mast



SATCOM: KGV-310B TRANSEC Module Destruct Switch Alert

/ Published Jan. 26, 2023

BLUF: Mistakenly choosing the destruct switch when zeroizing the KGV-310B TRANSEC module on the SMART-T system results in unnecessary and costly repair.



Photo by [Staff Sgt. Malcom Cohens-Ashley](#)

Dear Editor,

Our team is noticing a high trend of KGV-310B transmission security (TRANSEC) module destruction in the AN/TSC-154A Secure Mobile Anti-Jam Reliable Tactical-Terminal (SMART-T).

Operators are **mistaking the destruct switch** for a way to zeroize the TRANSEC; as a result, they're accidentally destroying the device.

When the TRANSEC module is destructed, the device requires evacuation to Tobyhanna Army Depot for a lengthy repair.

Our quick reference guide with photos [HERE](#) will help prevent operators from accidentally destroying their TRANSECs or corrupting the cryptographic recovery keys (CRKs). You'll need your CAC to access the link.

It's important to note that according to the SMART-T TM 11-5895-1881-13&P (May 22), an inoperable TRANSEC module deadlines the SMART-T and should be reflected in GCSS-A for proper reporting.

In addition, operators should keep in mind that:

1. The destruct function is **only** for battle overrun situations. End of mission zeroization is an option available during normal shutdown of the terminal and should be executed at the system menu.
2. To prevent corruption, the CRK should not be inserted or removed while the terminal is powering on or powering down.

SFC Elvis R. Guevara
2nd Infantry Division

Editor's note: *That's some smart info about SMART-T. CECOM agrees with this important message. Thanks.*



Batteries: The ABCs of Battery Care

/ Published Jan. 30, 2023

BLUF: Help prevent battery failure by practicing several suggested rules.



Photo by 10th Mountain Division Sustainment Brigade Public Affairs Office

This article initially appeared in PS 768 (Nov 16), pp. 36-37.

Batteries don't last forever. Even if they've been sitting on a shelf unused, they may not work if their expiration date has come and gone. To say the least, battery failure could hurt you and your mission.

These rules will help units prevent battery failure. Every unit should keep a copy of these rules:

- Before using any batteries, check their expiration dates. If they've expired, don't use them. No use taking a chance. Use fresh batteries.

- When storing batteries, make it easy to check their expiration dates. Mark the date in large numbers on the packaging.
- Keep batteries from the same lot together and use up batteries from one lot before starting on another lot. That way you don't mix batteries with different expiration dates.
- Of course, always check batteries for damage, swelling, leakage, cracks and corrosion. If you have any doubts, don't use them.
- When you need to dispose of batteries, follow the procedures in TB 43-0134, *Battery Disposition and Disposal* (May 18). It's on the ETM site [HERE](#).
- Get a copy of SB 11-6 (Mar 17). It covers storage, safety, transportation and disposition of batteries. It's also on the ETM site.*

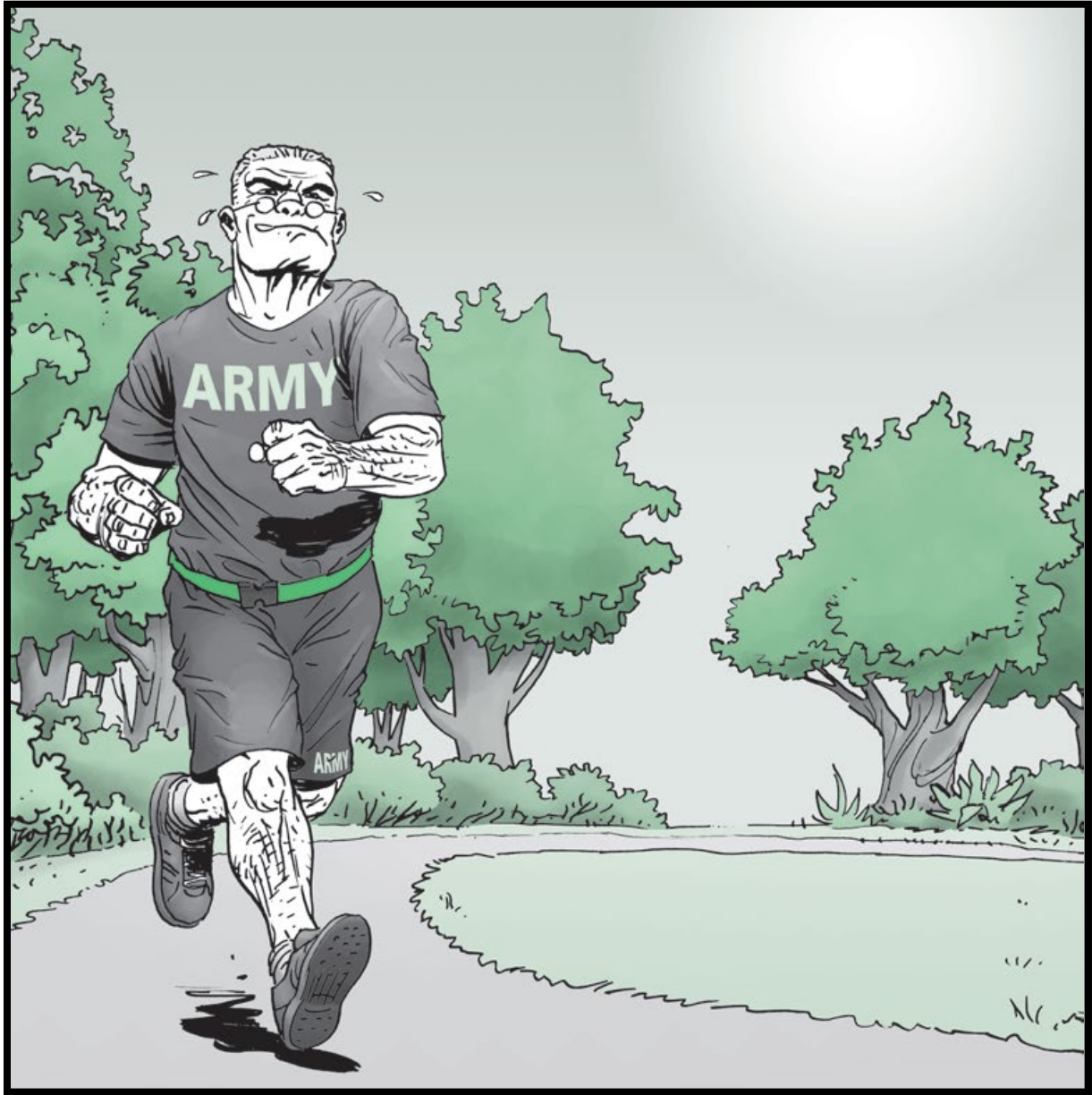
There's one other good battery rule: Never leave batteries stored in equipment. The batteries leak, damaging and even ruining equipment! This costs your unit big bucks that could have been avoided with a few minutes of work.

Questions? Email:

usarmy.apg.cecom.mbx.ilsc-pe-pscoe-support@army.mil

*Updated URL for ETM, pub dates and email for assistance as of 1/23.

H2F





H2F: ATP Guide Gives Guidance

/ Published Jan. 19, 2023

BLUF: ATP 7-22.02 is the H2F guide to physical fitness and readiness.

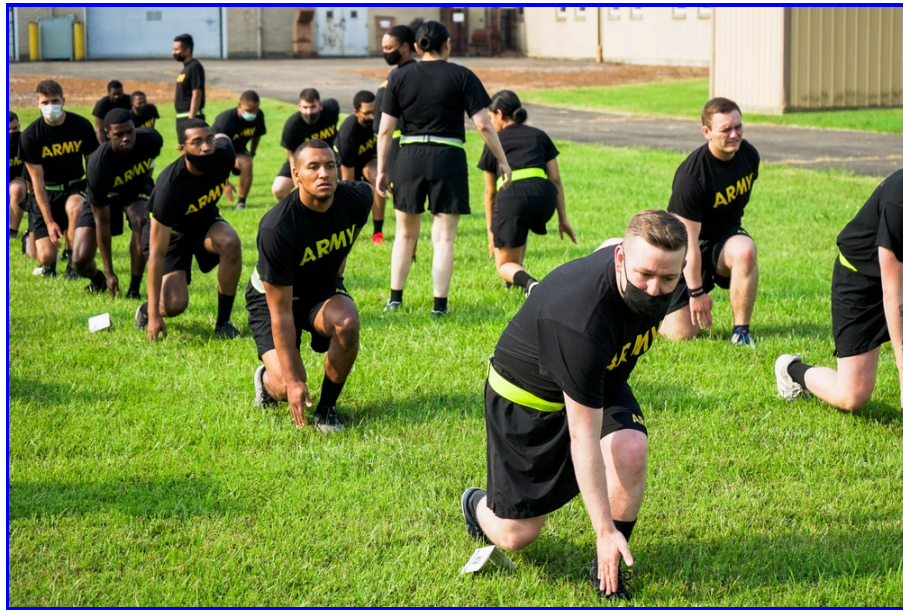


Photo by [Sgt. Owen Thez](#)

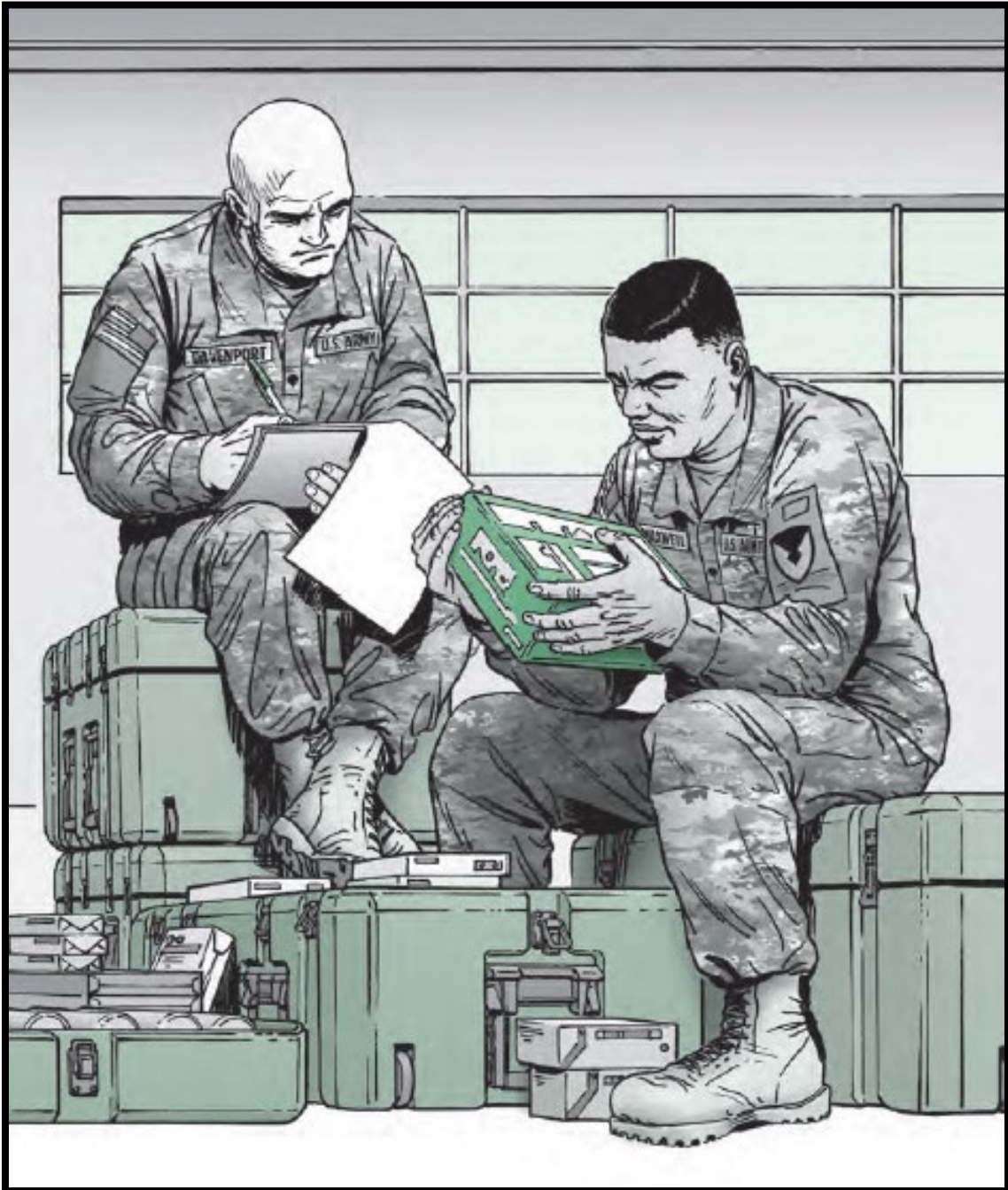
ATP 7.22.02, *Holistic Health and Fitness Drills and Exercises* (Oct 20), is the how-to guide for exercises and drills with the goal of achieving physical fitness at the individual level. Physical fitness is a cornerstone of Soldier readiness and, by extension, Army readiness. Physical readiness is the ability to meet the physical demands of any duty or combat role.

The exercises and drills in the holistic health and fitness (H2F) system are standardized so that no matter where they train, Soldiers can quickly understand the exercises and perform them safely.

The ATP details exercises and drills with photos. Chapter 17 covers PMCS drills for the entire body, including ankles and spines. It's a reminder that PMCS doesn't apply only to equipment.

View or download a PDF version of ATP 7.22.02 [HERE](#).

Logistics Management





ASC Materiel Readiness Training Div Offers Virtual Option

/ Published Jan. 11, 2023

BLUF: Turn to Army Sustainment Command's (ASC) Materiel Readiness Training Division (MRTD) for valuable automated logistics sustainment training on logistics tools, applications and programs that support Army operations.



Photo by Capt. Daniel Parker

Updated 11 Jan 2023

The Army Sustainment Command's (ASC) Materiel Readiness Training Division (MRTD) offers valuable automated logistics sustainment training on logistics tools, applications and programs in support of Army operations.

Previously, the primary tools MRTD taught were Logistics Data Analysis Center (LDAC)-centric. Since transitioning to ASC, MRTD has expanded the courses they provide to include any logistics readiness-enabling tool or application.

MRTD's mission is to bridge the gap between professional military education and unit-provided training. MRTD Provides tactical, operational, strategic, and functional knowledge through the development of training material and the execution of Automated Logistics Training to enable the Army's Materiel Readiness; equipping logisticians with Distributed Learning Materials necessary to enhance knowledge and skills required for maintaining unit readiness.

MRTD provides customer tailored, instructor led, hands-on, over-the-shoulder training session; utilizing TEAMS, Blackboard and the AESIP DST-Train Site (which replicates the actual DST Tool).

MRTD develops new courses/programs as needed. Current courses include:

- Decision Support Tool - Sourcing Module (DST-SM)
- Strategic Support Area Business Reporting Environment tool (SABRE) Supply Management Army (SMA)
- Strategic Support Area Business Reporting Environment tool (SABRE) Organic Industrial Base (OIB)
- Decision Support Tool Unit Reset Planner (URP)
- Theater Provided Equipment (TPE)
- Army Readiness Common Operating Picture (AR-COP)
- Test, Measurement, and Diagnostic Equipment (TMDE)

To request training, fill out a training request form at the following link (you'll need a CAC to access):

[Materiel Readiness Training Division \(MRTD\) Training Request Form](#)

Note: Submit all training requests no later than 30 days before the requested training date. That allows enough time to process the request and allocate the required resources. If you have questions, email:

usarmy.redstone.asc.mbx.materiel-readiness-training-division@army.mil



Packaging: New COSIS Approach

/ Published Jan. 11, 2023

BLUF: A new approach to the Care of Items in Storage (COSIS) aims to help you take better care of stored items.



Photo by [Jon Connor](#)

Temperature, humidity, handling and even electrostatic shock are factors that can degrade the serviceability of stored items over time. Currently, items are inspected in accordance with AR 740-3, *Stock Readiness*. This guidance is effective when items are stored correctly in uncompromised packaging, but the storage timetable doesn't account for finding items that are hypersensitive to the elements, stored in inadequate or compromised packaging or in less-than-ideal storage conditions.

COSIS can slow or stop environmental effects on stored equipment. The new COSIS approach accounts for the real-time effect of the environment. It's based on the sensitivity of items and whether they are stored correctly.

This story is the first in a series of articles that will explain more about Method of Preservation (MOP) 50, electrostatic discharge, non-extendable and extendable shelf-life items, hazardous materials and items stored outside that should be stored inside. These areas make up the COSIS Priority Groups (CPGs) identified by the Army Sustainment Command's Packaging, Storage, and Containerization Center (PSCC).

As a start, easily identify these CPGs by running an on-hand inventory in AESIP using the Army Packaging tab to figure out which items should be selected first for inspection. That'll help you find critical errors sooner.

The next article in this series covers COSIS MOP 50.

If you have questions about COSIS or CPGs as this series unfolds, submit them here:

<https://www.psc.army.mil/About-Us/Contact-Us/>



Half-Mast Sends: Keep on Trucking

/ Published Jan. 26, 2023

BLUF: The war in Ukraine offers some valuable maintenance and logistics lessons-learned, chiefly to focus on the BASICS!



Photo by Tech. Sgt. Michael Matkin

The war in Ukraine is offering a lot of lessons. The question is: Are we learning them?

Take a moment and read [this CNN article](#). (A PDF version is found [HERE](#).)

If you're a vehicle driver or mechanic, particularly of wheeled vehicles, here are some important takeaways from the article:

- They may not be glitzy or high-tech, but trucks and trailers are the workhorses of the Army.
- Vehicles need to be exercised routinely while in garrison.
- Sometimes the obvious, such as tires, gets ignored.
- PMCS, PMCS, PMCS

It's easy to think the problems plaguing the Russian army or any adversary are unique to them and attributable to their flawed system. But if we ignore maintenance and supply basics, we run the risk of reducing, even crippling, our combat power just when it's needed most.

Here are a few articles from the PS archive that will assist you and your team with ensuring your vehicles and equipment are combat ready when they need to be:

[**Cold Weather: Some Must-Read PS Articles to Prepare, Plan & Train**](#)

[**Tactical Vehicles: Shocking Truth behind Defective Batteries**](#)

[**Tactical Vehicles: Five Steps to Install Batteries Right**](#)

[**Be Prepared for Hot Weather: A List of Must-Read PS Articles**](#)

[**Corrosion: Bust Rust with TACOM CCI Checklists**](#)

[**Corrosion: Cleaning is Key to Prevention**](#)

[**Tactical Wheeled-Vehicles: Safe Slave Starting**](#)

[**Ground Vehicles: Drive Like Your Life Depends on It!**](#)

[**M1-Series Tank: Road Testing Part of PMCS**](#)

[**M1-Series Tanks: Check Road Wheel Hub Oil Levels**](#)

[**M1-Series Tanks: Regular Engine Starts Enhance Readiness**](#)

[**M88-Series Recovery Vehicles: Wait Before Checking Oil**](#)

[**Combat Vehicles: Don't Overlook BII, COEI**](#)

[**M88-Series Recovery Vehicles: PM Keeps Winches Working**](#)

[**M113A3-Series FOV: Inspect Exhaust Manifold and Heat Shield Covers Regularly**](#)

[**M2/M3 Bradley: Basic Maintenance Keeps Your Mission on Track**](#)

[**Stryker: Calibrate and Maintain Height Management System**](#)

[Patriot Missile System: Pinpoint PM](#)

[HIMARS: How-to Tips](#)

[MLRS: PMCS Multiplies Performance](#)

[60mm Mortars: Don't Slack on Preventive Maintenance](#)

[Maintenance Training: Find Every Chance to Teach](#)

[PMCS: Good PM Takes More Than Just the TM](#)

Another way to reinforce the basics is to shine a light on those Soldiers and Warfighters who focus on the basics, take full ownership of their assigned vehicle(s) and equipment and complete all their preventive maintenance checks and services (PMCS) with pride. Or, similarly, recognize civilian maintainers who go above and beyond sustaining Army fleets.

PS Magazine has two recognition programs that seek to spotlight deserving individuals. To nominate a deserving Soldier, Warfighter from another service, or civilian sustainer, visit our **Recognition Programs** page [HERE](#).



"I Own This" recognizes Soldiers/Warfighters; "I Sustain This" recognizes civilian sustainers

Click on each image for more information

Half-Mast

Small Arms





60mm Mortar: Emplacing the Baseplate on Frozen Ground

/ Published Jan. 1, 2023

BLUF: When emplacing the 60mm mortar in freezing weather, protect the baseplate by placing dry bags of sand or snow beneath it to prevent cracking.



Photo by [Lance Cpl. Tanner Seims](#)

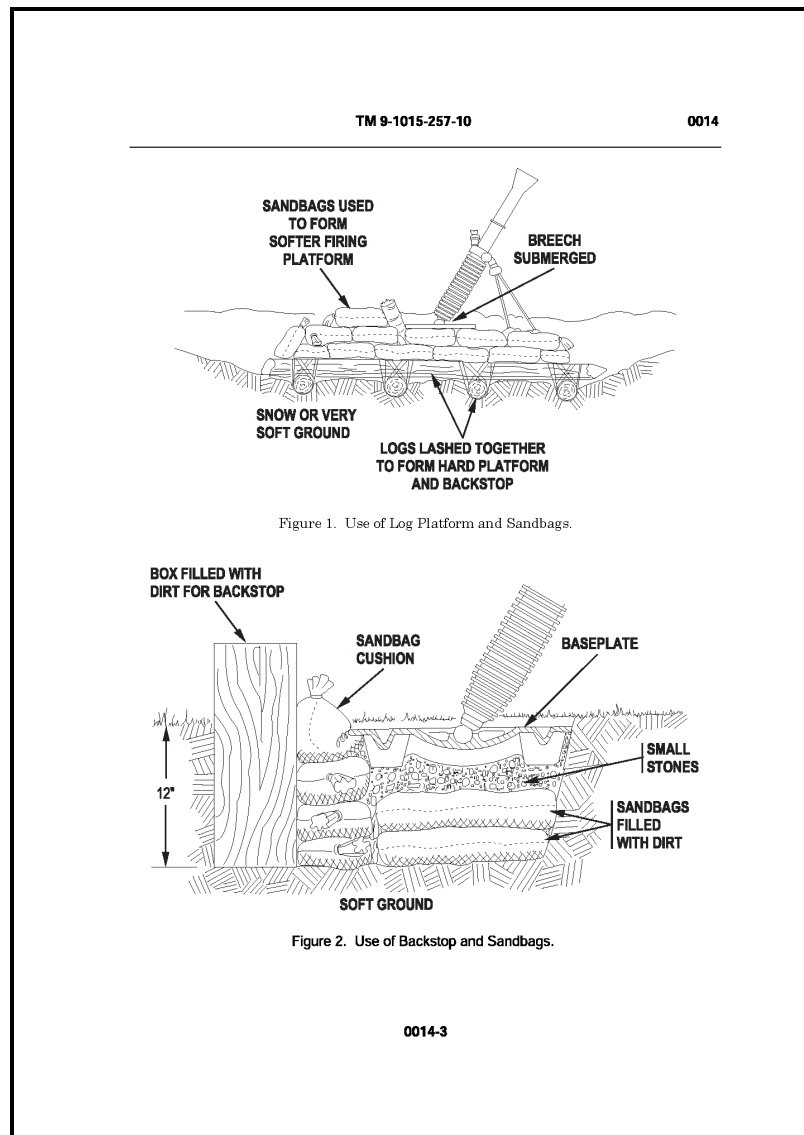
Operators and crew members, when you emplace the 60mm mortar baseplate on frozen ground, the cold temperature may make the metal brittle. The combination of brittle metal and the tremendous shock that the baseplate receives when a round is fired may cause the baseplate to crack.

WP 0018-2 of TM 9-1010-233-10 (Jul 16) tells you to emplace the 60mm mortar in frozen ground by loosening the ground to seat baseplate spades and bipod feet or, as an alternative, to use tree limbs, branches or sandbags to emplace the mortar. Because that's not very specific, the next TM update will provide more details.

Till then, here's what you need to know. You can position the mortar using one of the

following methods:

- Use a combination of logs lashed together and bags of either dry sand or snow beneath the baseplate to provide the weapon with a solid, yet resilient shock-absorbing base.



Graphic depiction of best ways to emplace 60mm mortar in extreme cold
(to view larger version, right click on graphic and open in new tab)

- Use a combination of sandbags (or bags filled with snow), small stones and a box filled with dirt to create a backstopped firing position that cushions the baseplate yet also provides a solid, shock-absorbing emplacement.

- An alternate but less preferable method is to make a mat out of brush under the baseplate. The brush mat should be a minimum of 3 ½ inches thick when compressed. If available, snowshoes can be placed under the bipods to help prevent the bipods from sinking in the snow. As with the first two methods, a solid foundation should be constructed beneath the brush to help with shock absorption.



M17/M18 MHS: Help Stop Extractor Pin Damage

/ Published Jan. 5, 2023

BLUF: To avoid damaging the M17/M18 MHS extractor tension pin, follow the procedures in WP 0010-9 of TM 9-1005-470-23&P (Jun 19).

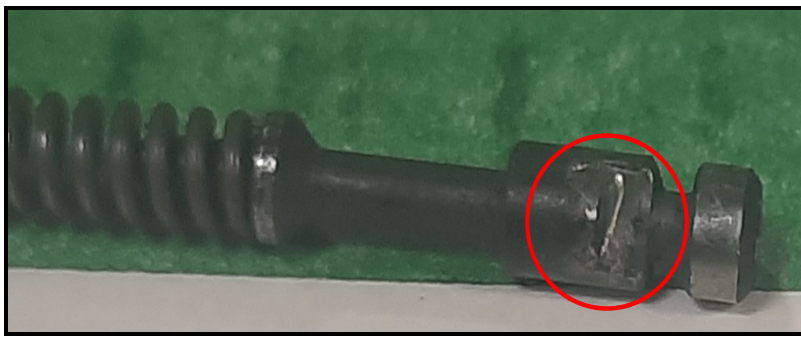


Photo by 1st Sgt. Lekendrick Stallworth

Dear Editor,

Here at Ft Leonard Wood, we've noticed a lot of M17/M18 MHS extractor tension pins with damage. This is possibly from the armorer working on the slide or the Soldier cleaning the weapon and not putting it back together properly.

It's important to note that **removing the extractor is a 91F task**, not operator level.

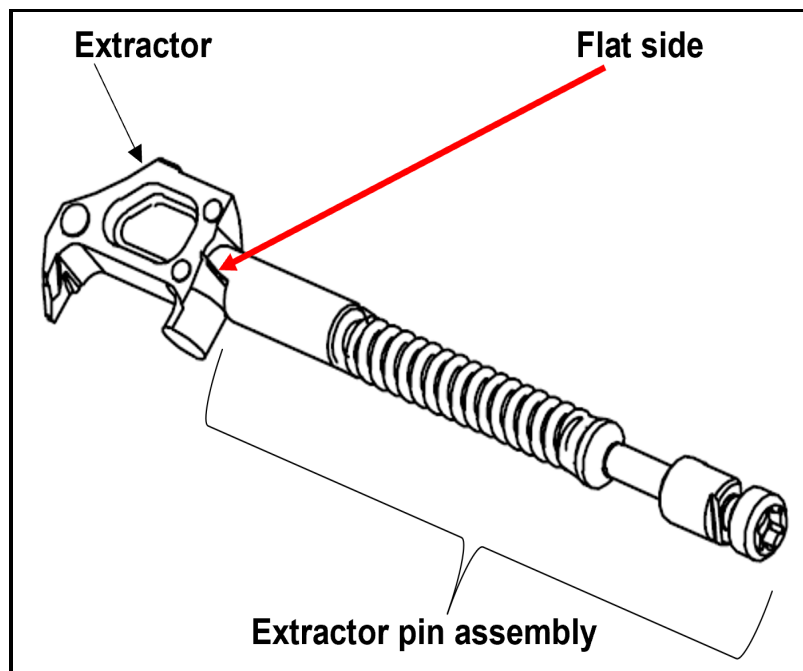


Damaged extractor tension pin

To prevent this type of damage, a 91F must follow these instructions:

- After the extractor has been inserted into the slide, insert the extractor tension pin into the hole at the rear of the slide.

NOTE: When installing the extractor tension pin, the flat side **must** go into the hole first, causing it to face the striker assembly. Failing to do so could prevent the pistol from functioning properly.



Flat side goes into hole at rear of slide first, facing striker assembly

- If inserted correctly, then the extractor pin assembly should fit right into the notch of the extractor and lock together (as shown in the image above).
- Push the extractor tension pin into the slide fully and turn the hex pin 180 degrees in either direction until it snaps into place.



Correctly installed extractor tension pin; recessed in the slide



Incorrectly installed extractor tension pin; protrudes from the slide

You can tell the extractor tension pin is **correctly** installed because it's recessed into the rear of the slide. If it pokes out from the rear of the slide, then you've installed it **incorrectly**.

After maintenance on the pistol, perform the slide function test. This includes checking the extractor for proper tension and seating. See WP 10 of TM 9-1005-470-23&P (Jun 19) for instructions.

Fred Fanning II

Mark Haggith
Ft Leonard Wood, MO

Editor's note: *We love to hear the voices of experience. Remember, only 91Fs can remove the extractor tension pin.*



81mm Mortars: Frozen Ground Emplacement

/ Published Jan. 11, 2023

BLUF: When emplacing the 81mm mortar in freezing weather, protect the baseplate by placing dry bags of sand or snow beneath it to prevent cracking.



Photo by [Erich Backes](#)

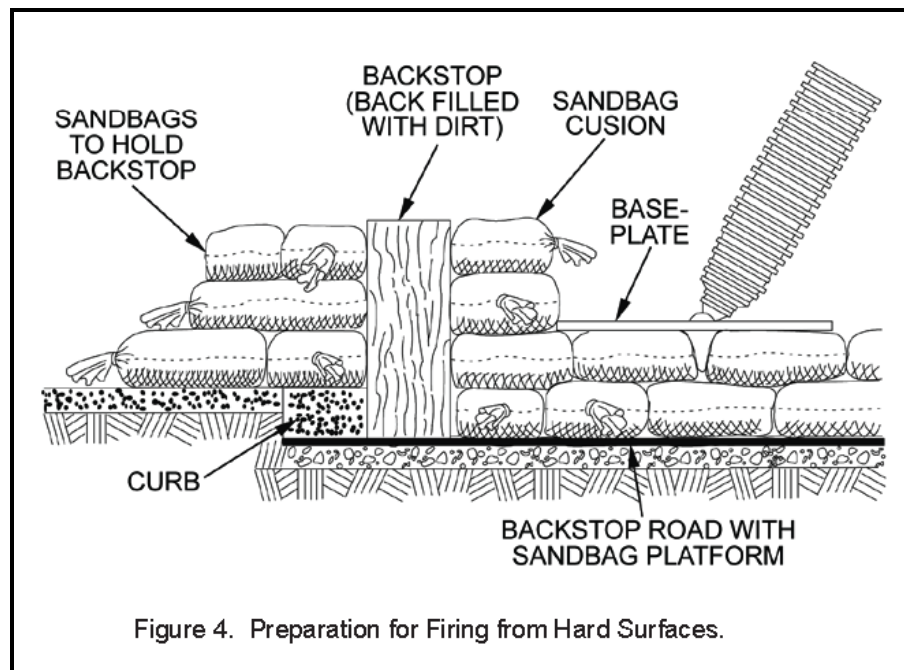
Mortar crew members, pay attention when emplacing the baseplate on frozen ground because cold weather makes the metal brittle. When you add the tremendous shock of a round being fired, the baseplate may crack.

Follow the instructions found in WP 0014-1 of TM 9-1015-257-10 (Aug 14) to help prevent the baseplate from cracking. Here's a recap of what you need to know:

First, if possible, loosen the ground to seat the baseplate spades and bipod feet. If the ground is frozen, then use sandbags to emplace the mortar or matting comprised of

tree limbs, branches or brush. More specifically:

1. Place bags of dry sand or snow beneath the baseplate, as shown in the diagram below. The sandbags will provide the weapon with a solid, yet resilient shock-absorbing base.



Recommended configuration for firing from hard surfaces

2. Place a brush matting under the baseplate (less preferred option). The matting should be a minimum of 6 ½ inches thick when compressed. Snowshoes can be placed under the bipods to help prevent the bipods from sinking in the snow.

Note: For a similar article on 60mm emplacement, click [HERE](#).



Small Arms Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for small arms.



Photo by [Sgt. Steven Lewis](#)

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

That's because *PS* must be aware of new or updated NSNs. Sometimes we get notified by a command like TACOM, CECOM, DEVCOM, etc. Sometimes we're informed of an NSN change by an equipment specialist or LAR and asked to publish the change.

More often, it's our readers that notice an incorrect NSN in a TM or try to order a part and discover that the NSN they're using is no longer valid and they reach out to *PS*. After some investigation on our part, we find the correct NSN and inform the reader.

Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

New or updated NSNs captured for small arms in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

Model	Nomenclature	NSN
M151 spotting scope	M151 spotting scope	<u>6650-01-549-5838</u>
M249 machine gun	Front sight post adjustment tool	<u>5120-01-689-4725</u>
M50 shotgun	Buttstock	<u>1005-01-285-0612</u>
M69 reflex sight	M68 reflex sight	<u>1240-01-576-6134</u>
MK19 Grenade Machine Gun	Rear sight assembly	<u>1010-01-608-6053</u>

Here are some additional articles that contain useful NSNs.

For PRF-680 NSNs see:

[***P-D-680/CID A-A-59601 Cleaning Solvent Is a NO-GO!***](#)

For proper weapon cleaning supplies see:

[***Small Arms: What You Should Know About Weapon Cleaning***](#)

For proper material to ship weapons see:

[***Small Arms: Good Prep Protects Your Weapon for Shipping***](#)

For M240H egress kit NSNs see:

[***M240H Machine Gun: Need an Egress Kit?***](#)

For CLP and LAW NSNs see:

[***Small Arms: Does Your Weapon Need LAW Instead of CLP?***](#)

For approved Loctite® NSNs see:

[***M17/M18 MHS: Rear Sight Inspection and Repair***](#)



Small Arms and Ammunition: Keep Good Accountability

/ Published Jan. 30, 2023

BLUF: Take weapons and ammunition security to heart. Don't be the one whose weapon is lost or stolen.



Photo by [Pfc. Tierra S Sims](#)

A recent article on *Military.com*, [“US Military Guns Keep Vanishing, Some Used in Street Crimes,”](#) put a spotlight on weapons and ammunition security. You can help prevent stolen weapons if you follow all security guidelines as stated in these Army regulations.

AR 190-11, *Physical Security of Arms, Ammunition, and Explosives*

AR 190-13, *The Army Physical Security Program*

AR 190-45, *Law Enforcement Reporting*

AR 190-51, *Security of Unclassified Army Resources (Sensitive and Nonsensitive)*

Here are some pointers to help you keep weapons and ammunition secure:

- Make sure the primary and secondary arms room keys are stored separately in locked metal containers. If possible, store the secondary keys at the next higher command. If that's not possible, secure the secondary keys at a separate secure location. (Para 3-8.f. of AR 190-11).
- Limit the number of personnel with unaccompanied access to the arms room. The commander can also use a two-person rule. This rule recommends using two authorized persons to open and access the arms room and stay together while it is open (Para 4-19, AR 190-11).
- It's important to keep track of weapons whenever they're issued and leave the arms room. Follow the guidance in Para 4-19.d. of AR 190-11 for proper issue and turn-in procedures to maintain accountability. Follow the commander's written guidance on safeguarding arms, ammunition and explosives (AA&E) at all times, according to Para 1-16.b. of AR 190-11.
- If your tank, vehicle or aircraft has a weapon or weapons mounted on it, then it needs to be parked inside a secure motor pool or aircraft parking area. If you don't have access to secure parking, it may be necessary to make the weapon(s) inoperative by removing the barrels or other essential firing components. See Table 4-1 of AR 190-11 for details.

Individuals who are issued or are in possession of weapons or ammunition or both are responsible for securing them. It doesn't matter if it's an individual weapon or the complete contents of an arms room, make sure to follow all security regulations and safeguard all weapons. You don't want to be the one responsible for any lost or stolen weapons.

Always report the loss, suspected loss or accountability discrepancy of AA&E immediately in accordance with commander's guidance. Lost, missing or stolen AA&E must be reported to Army law enforcement within the first two (2) hours of discovery and serious incident reporting to the Army Operations Center within 24 hours. DA Form 3056 follow-up is required within 72 hours.

If you need information on securing weapon racks with the right locks and chains, the following PS article will help:

<https://www.psmagazine.army.mil/News/Article/2053591/small-arms-secure-weapons-rack-with-the-right-locks/>



Maintain good weapon accountability...because lives depend on it!

Soldier Support





ASC Materiel Readiness Training Div Offers Virtual Option

/ Published Jan. 11, 2023

BLUF: Turn to Army Sustainment Command's (ASC) Materiel Readiness Training Division (MRTD) for valuable automated logistics sustainment training on logistics tools, applications and programs that support Army operations.



Photo by Capt. Daniel Parker

Updated 11 Jan 2023

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MRTD develops new courses/programs as needed. Current courses include:

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- Strategic Support Area Business Reporting Environment tool (SABRE) Supply Management Army (SMA)
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- Decision Support Tool Unit Reset Planner (URP)
- Theater Provided Equipment (TPE)
- Army Readiness Common Operating Picture (AR-COP)
- Test, Measurement, and Diagnostic Equipment (TMDE)

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Note: Submit all training requests no later than 30 days before the requested training date. That allows enough time to process the request and allocate the required resources. If you have questions, email:

usarmy.redstone.asc.mbx.materiel-readiness-training-division@army.mil



Commo/Electronics & Soldier Support Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 13, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for commo/electronics and Soldier support.



Photo by [Cpl. Christian Garcia](#)

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and discover that the NSN they're using is no longer valid and they reach out to *PS*. After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for communications and electronic equipment and Soldier support items in 2022:

(clicking on NSNs or items in blue hyperlinks to related article)

Commo/Electronics

Item	Nomenclature	NSN
Advanced Battery Charger	Charger, battery	6130-01-660-3696
• Adapter BTA-70100-1 For models: • BB-2590 • BB-390 • BB-2557	Adapter, battery charger	6130-01-667-1471
• Adapter BTA-70100-2 For models: • AN/PRC-148 radio battery • AN/PRC-152 radio battery • D Size NiMH batteries • AA Size NiMH batteries	Adapter, battery charger	6130-01-667-1500
AN//PVS-14 NVD	Single battery housing	5855-01-523-4058
M20 Antenna Components	Antenna, M20	Numerous; see article
STT's replacement 9200L switch	Switching group, DIG	5895-01-619-8977

Soldier Support

Item	Nomenclature	NSN
ULCANS Camouflage	Desert/Urban, General Purpose, Radar Scattering (R/S)	1080-01-475-0696
ULCANS Camouflage	Desert/Urban, Communications, Radar Transparent (R/T)	1080-01-475-0694
Clothing	Army rank insignia	Numerous; see article
Clothing	Unit patches for OCP uniforms	Numerous; see article
Tactical water purification system	Pump unit, centrifuge	4320-01-531-1844



H2F: ATP Guide Gives Guidance

/ Published Jan. 19, 2023

BLUF: ATP 7-22.02 is the H2F guide to physical fitness and readiness.

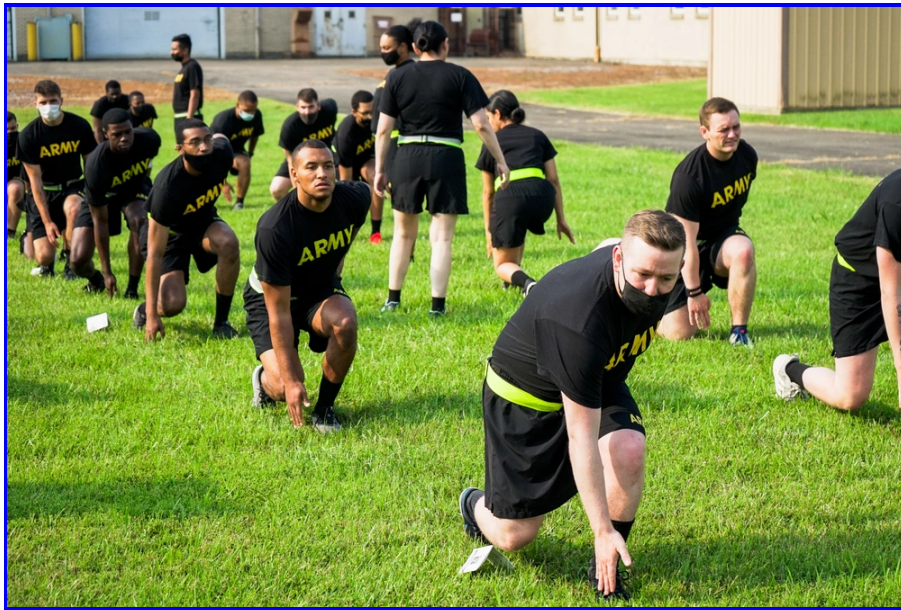


Photo by [Sgt. Owen Thez](#)

ATP 7.22.02, *Holistic Health and Fitness Drills and Exercises* (Oct 20), is the how-to guide for exercises and drills with the goal of achieving physical fitness at the individual level. Physical fitness is a cornerstone of Soldier readiness and, by extension, Army readiness. Physical readiness is the ability to meet the physical demands of any duty or combat role.

The exercises and drills in the holistic health and fitness (H2F) system are standardized so that no matter where they train, Soldiers can quickly understand the exercises and perform them safely.

The ATP details exercises and drills with photos. Chapter 17 covers PMCS drills for the entire body, including ankles and spines. It's a reminder that PMCS doesn't apply only to equipment.

View or download a PDF version of ATP 7.22.02 [HERE](#).



Soldier Support: Info about Soldier Referral Program

/ Published Jan. 24, 2023

BLUF: You can help the Army meet its recruiting goals. Here's how.



Photo by [Sgt. Sarah Enos](#)

The Secretary of the Army, Army Chief of Staff and Sergeant Major of the Army just announced the **Soldier Referral Program**, a new recruitment initiative to Soldiers who make prospective-Soldier referrals and bring more talented volunteers into the

Army family. Incentives include recruiting ribbons and the potential for early promotion.

Although these incentives are intended for currently-serving Soldiers, there's a role for family members, retirees and civilians, too; they can provide critical assistance to uniformed personnel in identifying and referring new recruits.

For details and more info on how to participate, see the official letter [HERE](#).

Tactical Vehicles





HEMTT A4-PLS A1-HET A1: Engine Cranks but Won't Start

/ Published Jan. 10, 2023

BLUF: There's a possible issue with some C15 and C18 engines on HEMTT, PLS and HET trucks cranking and not starting due to a damaged front cluster gear.

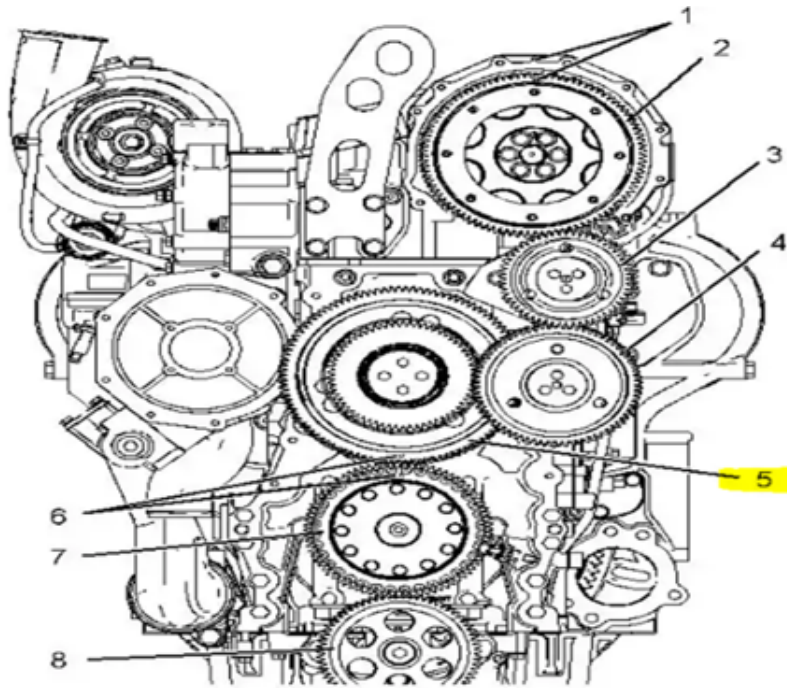


Photo by Staff Sgt. Steven Colvin

If you've got a HEMTT A4, PLS A1 or HET A1 truck with a Caterpillar® C15 or C18 engine installed, TACOM advises that the engine could crank but not start due to a damaged engine cluster gear. The gear typically fails due to a broken woodruff key which hinders correct rotation of the camshaft gear or fuel pump drive gear.

Maintenance personnel then have to spend a great deal of time and effort troubleshooting the problem. It's incredibly labor-intensive to remove all the covers to visually inspect the cluster gear.

It's also important to note that there are several gears that are collectively referred to as the engine timing gear. You'll see all the gears, along with a related legend below:



C15 and C18 engine timing gears with cluster gear (5) highlighted

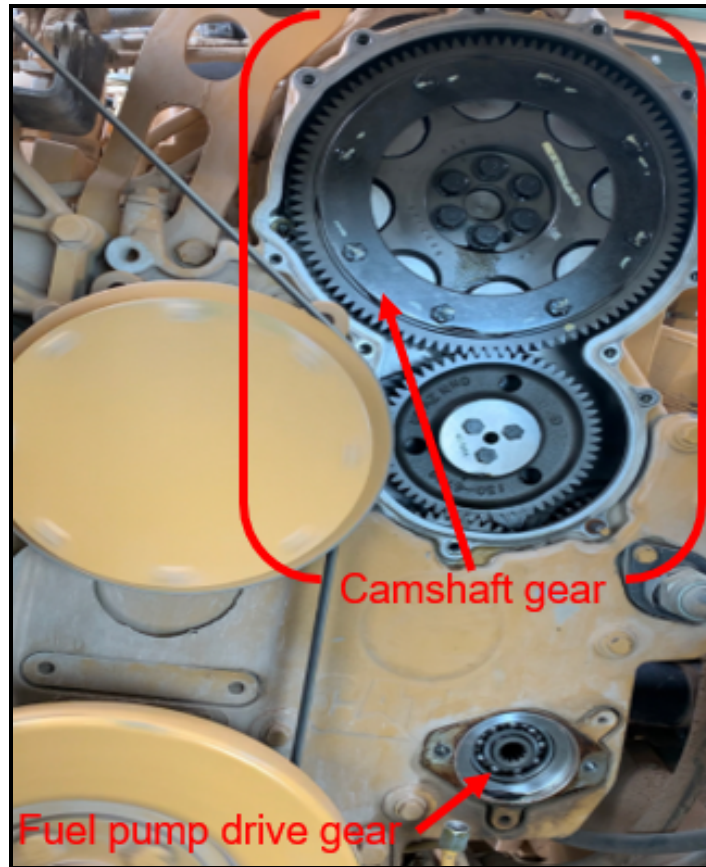
Engine Timing Gears

- 1 - Timing marks
- 2 - Camshaft gear
- 3 - Adjustable idler gear
- 4 - Idler gear
- 5 - Cluster gear
- 6 - Timing marks
- 7 - Crankshaft gear
- 8 - Oil pump gear

The easiest way to check for a damaged cluster gear is first to determine if the mechanical fuel pump is pumping fuel when the engine is cranked. If it's pumping fuel when cranked, then the fuel pump should be good. If it's not pumping fuel when the engine is cranked, check for rotation of the engine timing gears and the fuel pump drive gear.

Be sure to follow **all** safety guidelines in the appropriate TM.

A less labor-intensive way to check the gears' rotation is to remove the front inspection cover (peanut-shaped cover) and the mechanical fuel pump.



Removed front inspection cover (peanut-shaped cover) allows for gear inspection

Once the cover is removed, you'll be able to confirm rotation of the camshaft gear and fuel pump drive gear visually as the engine is cranked. If either of the gears **doesn't** rotate as the engine is cranked, you've got a damaged front cluster gear and the vehicle needs a new engine.

The unit will have to remove and replace the engine. Fixing a damaged front cluster gear is depot-level maintenance because the engine must be rebuilt. That'll cost units about \$89,000.

Click the forward arrow on the following image to play a video of the non-rotating camshaft and fuel pump drive gears as the engine is cranked.

00:05



Tactical Vehicles Year-in-Review: New and Updated NSNs Captured in 2022

/ Published Jan. 12, 2023

BLUF: Here's a list of new or updated NSNs that *PS* captured in 2022 for tactical vehicles and trailers.



Photo by Cpl. Danny Gonzalez

Here are new and updated NSNs that *PS* captured in 2022. While this is a complete list of what we reported over the past calendar year, it's probably not a complete list of all new, updated or rescinded NSNs. Why's that?

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After some investigation on our part, we find the correct NSN and inform the reader. Normally, an article is published to inform the field of the new or updated NSN. This means we need your continual support.

Remember, if a piece of equipment does not have an NSN and yet you need to order it, fill out a DD Form 1348-6 to order by part number. This creates demand in the supply system and ultimately an NSN will get assigned to the part because of demand.

New or updated NSNs captured for tactical vehicles in 2022

(clicking on NSNs or items in blue hyperlinks to related article)

*Denotes terminal item that can still be ordered but when stocks are depleted there's a replacement NSN.

Fuel Tanker Trailers

Model	Nomenclature	NSN
M967A2, M969A3	Landing leg crank handle, retaining pin	5315-01-543-8980
M967A1P1, M969A1P1, M969A2P1	Wheel seal	5330-01-417-5137
M967A1P1, M969A1P1, M969A2P1	Hub cap gasket	5330-01-280-5827
M967A1P1, M969A1P1, M969A2P1	Outer wheel bearing	3110-00-100-0663
M967A1P1, M969A1P1, M969A2P1	Outer race	3110-00-100-0332
M967A1P1, M969A1P1, M969A2P1	Inner wheel bearing	3110-00-100-0683
M967A1P1, M969A1P1, M969A2P1	Inner race	3110-00-100-0337
M969A3	Fuel/water separator, bottom gasket	5330-01-398-8738
M969A3	Shutoff valves	4820-01-504-7434

FMTV

Model	Nomenclature	NSN
All	Air dryer	2530-01-630-5913
All	Engine air inlet heater solenoid kit	5945-01-626-8750
All	Programmed junction box	5940-99-216-7389
M1083, M1095	TPU tiedown kit	3990-01-444-0356
M1085	TPU tiedown kit	3990-01-444-0355

HEMTT

Model	Nomenclature	NSN
M1120A2	Hook arm cylinder assembly	3040-01-642-5340
HEMTT A4	Headlamp	6220-01-616-1079

HMMWV

** Due to security classification guidance from PEO CS/CSS, most HMMWV NSNs are CUI; thus, the need to place them behind the CAC firewall.

Model	Nomenclature	NSN
All	Winter tire assembly	** HERE
All	ABS brake fluid (DOT 5.1 quart-sized packs)	9150-01-694-1600
M1151A1	Engine compartment hood	* 2510-01-432-3338 2510-01-628-3889

Semitrailers

Model	Nomenclature	NSN
M172A1	Ramp assembly	3990-00-353-6354

Tractor Trucks

Model	Nomenclature	NSN
M915A3	Collision warning ECU	7050-01-691-0409
M915A3	Battery equalizer	6150-01-595-3497
M915A5	Cable pivot bracket (RH)	2590-01-699-1184

Model	Nomenclature	NSN
M915A5	Cable pivot bracket (LH)	2590-01-699-1181
M915A5	Air tank valve	4820-00-412-3525

Trailers-Cargo, Bolster and Water

Model	Nomenclature	NSN
M1101, M1102	Shock absorber	* 2510-01-190-3862 2510-01-554-1785
M796, M979, M1061, M106A1, M1073, M103A2, M149A2	Master cylinder	* 2530-00-204-4800 2530-01-339-8620



M870A3 Semitrailer: Retrofit Kit for M983A2/A4 HEMTTs

/ Published Jan. 17, 2023

BLUF: If no power is supplied to M870A3 semitrailer ABS ECU or service lights you may need to install an electrical system retrofit kit.



Courtesy photo

This article initially appeared in PS 720 (Nov 12), p. 61.

Some early production M870A3 semitrailers were built with an electrical system compatible with M916-series tractor trucks. But when hooked up to an M983A2 or M983A4 light equipment transporter HEMTT, no power is supplied to the semitrailer's service lighting system and ABS electronic control unit.

Fix that by installing the electrical system retrofit kit, NSN 5995-01-598-1931. That keeps your semitrailer fully compatible with M916-series tractor trucks.



M915A3 Tractor Truck: Get the Correct ECM Assembly

/ Published Jan. 26, 2023

BLUF: Get the correct ECM assembly (modulator assembly) for your M915A3 truck by checking the truck's serial number.



Photo by Staff Sgt. Jim Greenhill

Need an electronic control module (ECM) assembly, which is sometimes referred to as the modulator assembly, for your M915A3 truck but you're unsure of the correct NSN? You'll need to first check the truck's serial number (SN).

To get the ECM assembly for M915A3 tractor trucks with SN H44205 and below and SN J21548 and above, use NSN 2920-01-517-1812.

To get the ECM assembly for M915A3 tractor trucks with SN J21547 and below, use NSN 2920-01-517-1792.



Half-Mast Sends: Keep on Trucking

/ Published Jan. 26, 2023

BLUF: The war in Ukraine offers some valuable maintenance and logistics lessons-learned, chiefly to focus on the BASICS!



Photo by [Tech. Sgt. Michael Matkin](#)

The war in Ukraine is offering a lot of lessons. The question is: Are we learning them?

Take a moment and read [this CNN article](#). (A PDF version is found [HERE](#).)

If you're a vehicle driver or mechanic, particularly of wheeled vehicles, here are some important takeaways from the article:

- They may not be glitzy or high-tech, but trucks and trailers are the workhorses of the Army.
- Vehicles need to be exercised routinely while in garrison.
- Sometimes the obvious, such as tires, gets ignored.
- PMCS, PMCS, PMCS

It's easy to think the problems plaguing the Russian army or any adversary are unique to them and attributable to their flawed system. But if we ignore maintenance and supply basics, we run the risk of reducing, even crippling, our combat power just when it's needed most.

Here are a few articles from the PS archive that will assist you and your team with ensuring your vehicles and equipment are combat ready when they need to be:

[**Cold Weather: Some Must-Read PS Articles to Prepare, Plan & Train**](#)

[**Tactical Vehicles: Shocking Truth behind Defective Batteries**](#)

[**Tactical Vehicles: Five Steps to Install Batteries Right**](#)

[**Be Prepared for Hot Weather: A List of Must-Read PS Articles**](#)

[**Corrosion: Bust Rust with TACOM CCI Checklists**](#)

[**Corrosion: Cleaning is Key to Prevention**](#)

[**Tactical Wheeled-Vehicles: Safe Slave Starting**](#)

[**Ground Vehicles: Drive Like Your Life Depends on It!**](#)

[**M1-Series Tank: Road Testing Part of PMCS**](#)

[**M1-Series Tanks: Check Road Wheel Hub Oil Levels**](#)

[**M1-Series Tanks: Regular Engine Starts Enhance Readiness**](#)

[**M88-Series Recovery Vehicles: Wait Before Checking Oil**](#)

[**Combat Vehicles: Don't Overlook BII, COEI**](#)

[**M88-Series Recovery Vehicles: PM Keeps Winches Working**](#)

[**M113A3-Series FOV: Inspect Exhaust Manifold and Heat Shield Covers Regularly**](#)

[**M2/M3 Bradley: Basic Maintenance Keeps Your Mission on Track**](#)

[**Stryker: Calibrate and Maintain Height Management System**](#)

[Patriot Missile System: Pinpoint PM](#)

[HIMARS: How-to Tips](#)

[MLRS: PMCS Multiplies Performance](#)

[60mm Mortars: Don't Slack on Preventive Maintenance](#)

[Maintenance Training: Find Every Chance to Teach](#)

[PMCS: Good PM Takes More Than Just the TM](#)

Another way to reinforce the basics is to shine a light on those Soldiers and Warfighters who focus on the basics, take full ownership of their assigned vehicle(s) and equipment and complete all their preventive maintenance checks and services (PMCS) with pride. Or, similarly, recognize civilian maintainers who go above and beyond sustaining Army fleets.

PS Magazine has two recognition programs that seek to spotlight deserving individuals. To nominate a deserving Soldier, Warfighter from another service, or civilian sustainer, visit our **Recognition Programs** page [HERE](#).



"I Own This" recognizes Soldiers/Warfighters; "I Sustain This" recognizes civilian sustainers

Click on each image for more information

Half-Mast

