

ISSUE 793 DECEMBER 2018

OCONUS Rail Transit Station Clearance for Bradleys 2-3

M109A6, M992A2 Engine Air Duct Hose Clamp

FMTV Headlight Ring Drain Holes Unauthorized

PLS Team Mailbox, HEMTT Boom Control Valve

MISSILES

SMALL ARMS

and CBRN

NVDs, Remove Batteries Before Storage M249 Machine Gun, Feed Box Support Kit

Property Book, Don't Add to Serial Number

M249 Machine Gun Guide Rod Pin Position

M40/M42 Masks, JSGPM Mask Fittings

M109A6 Paladin Idler Arm Housing Lube M2/M3-Series Bradley AFES Hydrostatic Test Interval

Stryker, EA Troop Seats Not for Storage Stryker W4 Voltage Regulator Cable Check

M967A1, M969A1/A2 Fuel Tanker Tires

M88A2 Recovery Vehicle Track PM

AVLB Hinge Inspection

Rust Busters Tip of the Month

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TB 43-PS-793, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all Soldiers assigned to combat and combat support units and all Soldiers with unit maintenance and supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Application of the information is optional with the user. Masculine pronouns may refer to both genders. The use of product or company names does not constitute endorsement of those products, services or companies by the U.S. Army. The use of non-DoD hyperlinks, along with their content, does not constitute endorsement by DoD or DA. Neither DoD nor DA exercises any editorial control over, and cannot vouch for, content on non-DoD websites.

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PS, The Preventive Maintenance Monthly (ISSN 0475-2953)

is published monthly by the Department of the Army, Redstone Arsenal, AL 35898.

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

Just write to:

MSG Half-Mast PS, the Preventive Maintenance Monthly USAMC ARMY SUSTAINMENT COMMAND **BLDG 3307** Redstone Arsenal, AL 35898

Or email:

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

Internet address:

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

By Order of the Secretary of the Army:

MARK A. MILLEY

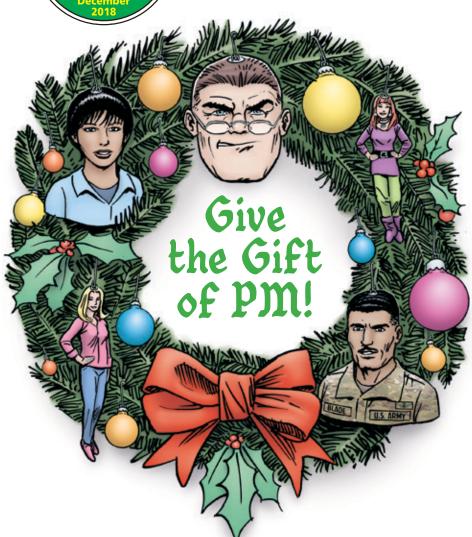
MARKE AVERUL cting Administrative Assistant to the Secretary of the Army 192/052



THE PREVENTIVE MAINTENANCE MONTHLY

TB 43-PS-793

Approved for Public Release; Distribution is Unlimited



Who Drives the Train?

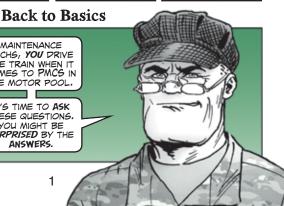


OK... NOW THAT YOU'VE ASKED THE QUESTIONS, HOW MANY CORRECT ANSWERS DID YOU GET?

MAINTENANCE TECHS, YOU DRIVE THE TRAIN WHEN IT COMES TO PMCS IN THE MOTOR POOL.

IT'S TIME TO ASK THESE QUESTIONS. YOU MIGHT BE SURPRISED BY THE ANSWERS.

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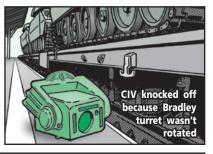


TRANSPORTING
BIG EQUIPMENT IS A
BIG JOB, BUT IT CAN
ALSO BE COSTLY
WHEN IT'S NOT DONE
RIGHT.

RECENTLY 10
BRADLEYS WERE
DAMAGED IN RAIL
TRANSIT DURING AN
OCONUS TRAINING
MISSION.

THE BRADLEYS FAILED TO CLEAR THE ROOF OF AN INTERNATIONAL RAIL STATION. THEY WERE BADLY DAMAGED. SOME COMMANDER'S INDEPENDENT VIEWERS (CIVS) WERE KNOCKED CLEAN OFF!









THE BRADLEYS
WERE SECURED ON
RAILCARS WITH THEIR
TURRETS FACING
FORWARD, WHICH IS
WRONG.

THE TURRETS NEED
TO BE ROTATED 1010
MILS FOR PROPER
CLEARANCE ON RAIL
TRANSPORTATION IN
OCONUS.

NOTE: ROTATING THE TURRET IS NOT REQUIRED IN CONUS
BECAUSE RAIL CLEARANCE PROFILES ARE HIGHER.

THE 21GT THEATER SUSTAINMENT COMMAND'S DISTRIBUTION MANAGEMENT CENTER GIVES SPECIFIC GUIDANCE IN THEIR TRANSPORTATION INTEGRATION HANDBOOK, SECURING OF MILITARY TRACKED AND WHEELED VEHICLES ON RAILWAY WAGONS IN INTERNATIONAL TRAFFIC (JAN 0G).

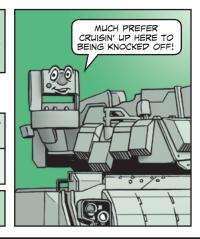
THE PUBLICATION IS AVAILABLE ON AKO WITH CAC ACCESS, VISIT:

https://www.ako1.us.army.mil/

AFTER YOU'VE SIGNED IN WITH YOUR CAC, PRESS THE <u>FILES</u> ICON IN THE UPPER RIGHT CORNER OF THE PAGE.

UNDER THE "ACCESS FILES BY ID" HEADING, TYPE **50061708** AND PRESS THE <u>DOWNLOAD</u> BUTTON.

FOR BRADLEY DRAWINGS GIVING CRITICAL DIMENSIONS, DOWNLOAD FILE 50061712 IN AKO FOLLOWING THE INSTRUCTIONS ABOVE.



M109A6 Paladin, M992A2 Ammo Carrier...

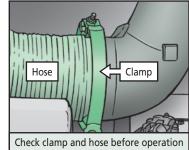


Crewmen, something as small as a clamp could cause big problems for your Paladin or ammo carrier engine.

The engine's air duct hose, NSN 4720-00-999-8589, is attached to the air cleaner duct by a clamp, NSN 4730-00-908-6294.

Vibration can cause the clamp to loosen. If that happens, dirty, unfiltered air is pulled in past the clamp and the engine is damaged. Priced a new engine for a Paladin or ammo carrier lately? Talk about sticker shock!

Avoid costly engine damage by checking the clamp before each operation. Make sure it's tight. Then check the hose for cuts, tears or other damage. Tell your mechanic right away if you find any problems.



PS 793 3 DEC 18



CREWMEN, YOUR PALADIN'S IDLER ARM AND HOUSING CAN TAKE A BEATING DURING MISSIONS. THAT'S WHY YOU NEED TO SHOW IT SOME TLC DURING SEMI-ANNUAL CHECKS AND SERVICES.

THERE ARE TWO LUBE POINTS FOR EACH IDLER ARM AND HOUSING.

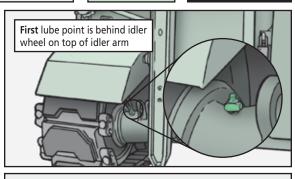
NEGLECT THE LUBE AND THE ARM CAN LOCK UP OR EVEN SHEAR OFF DURING OPERATION.

THE FIRST LUBE POINT IS BEHIND THE IDLER WHEEL ON TOP OF THE IDLER ARM, IT'S EASY TO OVERLOOK THIS ONE SINCE IT'S OFTEN COVERED IN DUST AND MUD, BE SURE TO CLEAN IT OFF BEFORE LUBING SO YOU DON'T FORCE IN ANY DIRT.

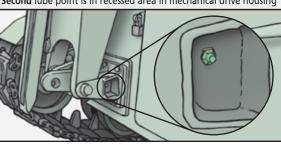
THE SECOND LUBE POINT IS IN A RECESSED AREA INSIDE THE MECHANICAL DRIVE HOUSING, NSN 3040-00-179-5562. BECAUSE THE LUBE POINT SITS BACK OUT OF SIGHT, IT'S OFTEN FORGOTTEN.

REMOVE THE PIPE PLUG AND REPLACE IT WITH A GREASE FITTING. NSN 4730-00-050-4208, TO LUBE THIS AREA

HIT BOTH LUBE POINTS SEMIANNUALLY WITH GAA TO PREVENT PROBLEMS.



Second lube point is in recessed area in mechanical drive housing



M2/M3-Series AFES Hydrostatic Test Interval?



Mechanics, listen up! There's some confusion about how often the bottles for the Bradley's automatic fire extinguisher system (AFES) should undergo hydrostatic testing.

The right answer is 12 years for bottles that are being recharged. But, that doesn't apply to fully-charged bottles, even if they've gone more than 12 years since the last hydrostatic test.

That means do not remove fully-charged AFES bottles for a hydrostatic test, even if it's been more than 12 years since the last test.

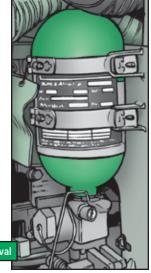
Only test discharged bottles that've gone past the 12year mark since the last hydrostatic test. The bottles need to be recharged after a fire, accidental release or leak. Do **not** discharge an extinguisher just to perform the test.

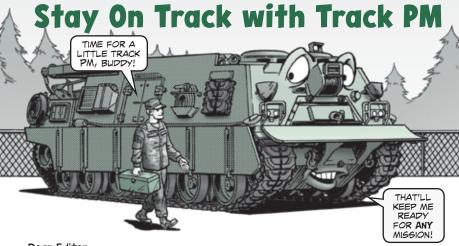
Your TACOM logistic assistance representative (LAR) can answer questions and help with testing.

Check out TACOM Maintenance Information Message 18-017 for more information:

https://tulsa.tacom.army.mil/Maintenance/ message.cfm?id=MI18-017.html

Don't test fully-charged bottles, even if past 12-year test interval



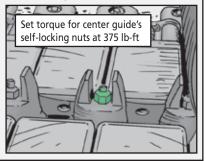


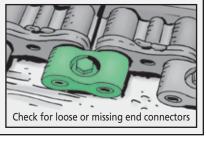
Dear Editor,

Track trouble can sideline your M88-series recovery vehicle when it should be out doing its job! That's why track PM is so important.

Check for missing or loose end connectors and center guides during operations. If they're loose, tighten them. Then inspect and torque them properly when the mission's done.

The center guide self-locking nuts require 375 lb-ft of torque when a track assembly is assembled from eight-block sections. The torque for the center guide on each side of the connection point is also 375 lb-ft.





After the center guide and end connector hardware have been tightened, recheck the torque after 30 to 50 miles of operation.

CW2 Doug Byner Ft Carson, CO

Editor's note: Be sure to follow all the PMCS procedures in TM 9-2350-256-10 for the A1 and TM 9-2350-292-10 for the A2 and you won't have any trouble keeping your vehicle on track! Stryker...

DON'T STORE GEAR UNDER TROOP SEATS!



INSIDE OF YOUR

STRYKER CAN GET

CROWDED DURING

MISSIONS.

NO MATTER HOW TIGHT SPACE IS, NEVER PLACE ITEMS LIKE MRES, AMMO BOXES, TOW BARS, ETC., UNDERNEATH YOUR STRYKER'S ENERGY ATTENUATING (EA) TROOP SEATS, NSA 2540-01-588-8533.

THAT CAN KEEP THE SEATS FROM PROTECTING YOU AND YOUR FELLOW SOLDIERS DURING A BLAST.

NOT TO MENTION THOSE LOOSE ITEMS CAN BECOME DANGEROUS PROJECTILES!

Improperly stored equipment and gear can damage energy attenuating (EA) troop seats

THE FOOT REST RAILS, NSN 2540-01-588-8869, CAN ALSO BE PAMAGEP BY ITEMS PLACEP UNDERNEATH THE TROOP SEATS,

REPLACING A FOOT REST RAIL WILL SET YOUR UNIT BACK MORE THAN \$400. ALSO, WHEN REMOVING THE EA SEATS AFTER A MISSION TO CLEAN THE TROOP COMPARTMENT, BE SURE TO KEEP TRACK OF THE MOUNTING HARDWARE. BE CAREFUL HANDLING AND STORING THE SEATS AFTER REMOVAL SO THEY AREN'T DAMAGED.

EACH ONE COSTS ABOUT \$5,600.

WONDER WHERE ALL

THAT EQUIPMENT

AND GEAR IS SUPPOSED TO GO

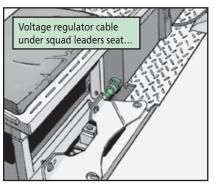
SO BE SURE TO STORE PERSONAL GEAR AND BII/COEI ITEMS PROPERLY SO THOSE EA TROOP SEATS CAN KEEP YOU SAFE!

PS 793 7 DEC 18



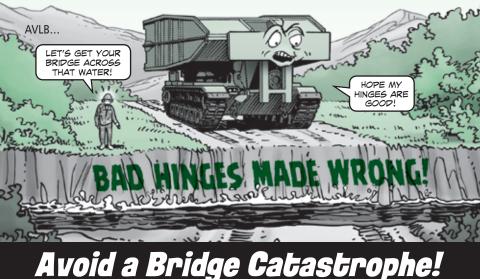
Mechanics, figuring out why a Stryker's batteries aren't charging can be tricky and time consuming. But you might save yourself some trouble by making the W4 cable inside the troop compartment one of your first checks.

The W4 cable that screws into the side of the battery box sits right under the squad leader's seat. The heel of a Soldier's boot can easily hit the W4 cable by accident and either damage it or slowly unscrew it.



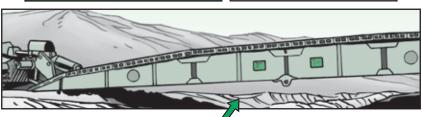


A damaged or loosened cable won't allow the vehicle's batteries to charge. So a quick check of the W4 cable might just get those batteries recharging in a hurry.



CREWMEN, THE LAST THING YOU NEED IS FAILED HINGES ON YOUR AVLB DURING A CROSSING.

IF THAT HAPPENS, THE BRIDGE COULD COLLAPSE AND SOMEONE MAY BE HURT OR EVEN KILLED!



INSPECTORS COMPLETED SITE VISITS AND FOUND SOME AVLB HINGES THAT WEREN'T MADE PROPERLY.

THESE NON-COMPLIANT HINGES CAN'T HANDLE THE WEIGHT OF THE VEHICLES, SO IT'S IMPORTANT YOU

DON'T USE THEM!

INSPECT
THE FOUR
DATA PLATES
ON EACH OF
YOUR AVLBS
AND NOTE
THE SERIAL
NUMBERS.

BRIDGE SECTION STRUCTURE, MALE

NSN 5420-01-420-1684

CAGE CODE

SERIAL NO. 50 3 3

WEIGHT 3000 LB.

CUBE 576 CU. FT.

MFR DATE OVHL DATE 5 2 8 1 5

PRODUCT MANAGER BRIDGING HAS ISSUED MEMORANDUMS FOR RECORD (MFRS) IDENTIFYING BRIDGES WITH COMPLIANT AND NON-COMPLIANT HINGES BY SERIAL NUMBER.

THE AVLB SERIAL NUMBERS ARE FOUND ON A DATA PLATE ON THE FOUR QUADRANTS. CHECK WITH YOUR
MAINTENANCE
SECTION FOR
THE MFRS AND
SERIAL NUMBERS.

IF ANY OF YOUR BRIDGES HAVE CONFIRMED NON-COMPLIANT HINGES, THEY ARE NMC.

Corrosion...

RUST BUSTERS TIP OF MONTH



THIS ARTICLE
WRAPS UP A
YEAR'S WORTH
OF RUST BUSTER
STORIES THAT HIT
THE HIGH POINTS
ON COMBATTING
CORROSION,

IN CASE YOU'RE
JUST TUNING IN,
CLICK ON THE LINKS
TO SEE WHAT YOU
MISSED!



JANUARY (PS 782-14-15)

DOWN-AND-DIRTY TIPS FOR KEEPING YOUR EQUIPMENT CLEAN AND CORROSION-FREE.







FEBRUARY (PS 783-11-13)

CHOOSE A CLEANER THAT'S UP TO THE JOB.
THIS HANDY CHART LISTS CLEANERS FOR EVERYTHING FROM DEGREASING TO HEAVY SOIL.

MARCH (PS 784-11)

CORROSION IS THE PIRECT RESULT OF MOISTURE FROM RAIN, CONDENSATION, AND WET BOOTS. THIS ARTICLE TELLS HOW TO KEEP ALL THAT WATER UNDER CONTROL.

APRIL (PS 785-12-13)

HOW BAD IS IT? UNDERSTAND THE STAGES OF CORROSION WITH THIS ARTICLE.





MAY (PS 786-14-16)

FINDING CORROSION REQUIRES A SYSTEMATIC INSPECTION.
THIS ARTICLE BREAKS IT DOWN WITH EASY LISTS.

JUNE (PS 787-12-13)

REPORTING CORROSION SOUNDS LIKE A CHORE, BUT THIS ARTICLE EXPLAINS WHY IT'S IMPORTANT AND HOW TO DO IT RIGHT.









JULY (PS 788-10-12)

HERE'S A HANDY LIST OF ALL THE NOOKS AND CRANNIES THAT REQUIRE SPECIAL ATTENTION WHEN CHECKING FOR CORROSION.

AUGUST (PS 789-12-13)

THE ARMY'S FLEET OF M872-SERIES TRAILERS HAS SERIOUS CORROSION PROBLEMS. IF YOUR UNIT HAS ANY M872-SERIES TRAILERS, THIS ARTICLE IS PEFINITELY FOR YOU. MAKE COPIES FOR YOUR UNIT!

SEPTEMBER (PS 790-11-13)

TACKLING CORROSION STARTS WITH PROPER SURFACE PREPARATION. LEARN HOW WITH THE CLEAR DIRECTIONS IN THIS ARTICLE.

OCTOBER (PS 791-10-14)

THE BEST CURE FOR CORROSION IS SPOT PAINTING, BUT IT CAN BE TRICKY IF IT'S NOT DONE RIGHT, READ THIS ARTICLE BEFORE YOU START.





NOVEMBER (PS 792-10-11)

THIS ROUNDUP OF ALL THE TOOLS AND EQUIPMENT YOU NEED ON HAND TO COMBAT CORROSION SERVES AS A HELPFUL REFERENCE.

AND IF A YEAR'S WORTH
OF PS MAGAZINE ARTICLES
ISN'T ENOUGH, HERE'S WHERE
YOU CAN FIND MORE INFO ON
COMBATTING CORROSION:
TB 43-0213, CORROSION
PREVENTION AND CONTROL
(CPAC) FOR ARMY WHEELED
VEHICLES

(SEP 12), AVAILABLE ON LOGSA'S ETM WEBSITE: https://liw.logsa.army.mil/etmapp/#/etm

STILL HAVE QUESTIONS? CONTACT TACOM CORROSION PREVENTION AND CONTROL (CPC):

USARMY.DETROIT.
TACOM.MBX.ILSCCORROSION
@MAIL.MIL



Dear Half-Mast,

My final inspector always complains that no water drain holes are drilled in the headlight rings of the FMTV-series vehicles that we service. He says it helps prevent corrosion.

I found an old PS Magazine article from 1996 showing how to drill holes in the headlight rings of HMMWVs to prevent corrosion, but it didn't say to do this in any other vehicles.

Are we supposed to be drilling holes in FMTV headlight rings just like in HMMWVs? Is that still the practice for HMMWVs?

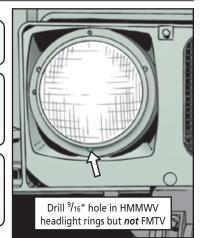
Mr. J.H.



WOW, YOU REALLY
DID YOUR RESEARCH
TO FIND AN ARTICLE
FROM 1996!

NO HOLES SHOULD BE PRILLED IN FMTV HEADLIGHT RETAINING RINGS. THEY DON'T HAVE THE SAME WATER RETENTION ISSUES AS HMWWYS.

BLIT, IT IS STILL
ACCEPTABLE TO PRILL
A HOLE IN HMMWV
HEADLIGHT RETAINING
RINGS TO ALLOW WATER
DRAINAGE AND PREVENT
CORROSION.



12 DEC 18

GETTIN' IT RIGHT THIS TIME: TIRE & WHEEL ASSEMBLY NSN



TO ORDER A REPLACEMENT TIRE AND WHEEL ASSEMBLY FOR THE M967A1 AND M969A1/A2 FUEL TANKER, USE NSN 2530-01-506-4125.

THAT BRINGS A NEW 22.5-IN TUBELESS TIRE WITH A ONE-PIECE WHEEL (WHICH IS ALSO THE **SAME TIRE** USED ON THE NEW PROPUCTION M967A2 AND THE M969A3).



IS REALLY

CONFUSING.

SO BRACE

YOURSELF!

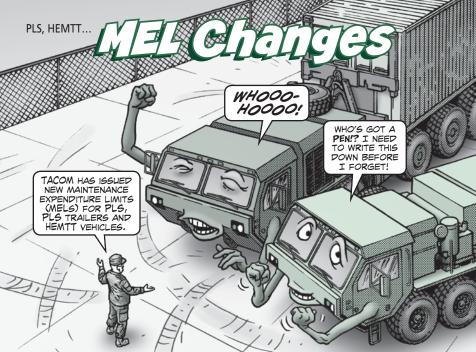
Item	NSN
Wheel, 22.5-in, tubeless, stud-piloted	2530-01-510-6121
Tire, 11.00 x 22.5-in, load-range G	2610-01-045-3688
Valve stem	2640-00-555-2824
Valve extension, 5-in	2640-00-338-2705

THE INNER AND OUTER LUG NUTS USED IN THE 22.5-IN ASSEMBLY ARE THE **SAME ONES** USED IN THE 20-IN SPLIT-RIM ASSEMBLY.

BUT **DO NOT** MIX 20-IN AND 22.5-IN ASSEMBLIES ON THE **SAME TRAILER.** THAT CAUSES THEM TO WEAR OUT QUICKER THAN THEY SHOULD.

REPLACE ALL OF THE TRAILER'S TIRE AND WHEEL ASSEMBLIES AT THE SAME TIME TO PREVENT IMPROPER WEAR. THAT'S A TOTAL OF NINE ASSEMBLIES, INCLUDING THE SPARE!

13 DEC 18





PLS Trailer		
Model	MEL %	
M1076A1 trailer (PLSTA1)	90	
M1076 trailer (PLST)	90	

PLS with or without Container Handling Unit (CHU)

(Note: M1074A1 and M1075A1 w/armor, use same MEL as M1074A1 and M1075A1 trucks w/o armor)

Model	MEL %
M1075A1 w/E-CHU	90
M1074A1	90
M1075A1	90
M1074 (built after 2006)	50
M1075 (built after 2006)	50
M1074 (built prior to 2006)	0
M1075 (built prior to 2006)	0
M1075 w/E-CHU (built prior to 2006)	70
M1075 w/E-CHU (built after 2006)	80
M1074P1 w/armor (built after 2006)	25
M1075P1 w/armor (built after 2006)	25
M1074P1 w/armor (built prior to 2006)	25
M1075P1 w/armor (built prior to 2006)	25

HEMTT with or without CHU
(Note: A4 trucks w/armor, use same MEL as HEMTT A4 trucks w/o armor)

Model	MEL %
M977A4, M978A4, M983A4, M983A4 LET, M984A4, M985A4, M985A4GMT, M1120A4, M1977A4, M1120A4 w/ E-CHU	90
M1142, M1158	80
M1977, M1977P1, M1977A2P1, M1977A2R1P1, M1977A2, M1977A2R1	80
M977A2, M977A2R1	0
M978A2, M978A2R1	50
M983A2, M983A2R1, M983A2LET	50
M984A2, M984A2R1	50
M985E1A2R1, M985E1A0, M985E1A2	50
M1120A2, M1120A2R1, M1120A2 w/E-CHU	75
M977P1, M977A2P1, M977A2R1P1, M978P1, M978A2P1, M978A2R1P1, M983P1, M983A2P1, M983A2R1P1, M984A1P1, M984A2P1, M984A2R1P1,M985E1A2R1, M985E1P1, M985E1A2P1, M985E1A2R1P1, M985P1,M985A2P1, M985A2R1P1, M1120P1, M1120A2P1, M1120A2R1P1	0
M977, M978, M983, M984, M984A1, M985, M985A2, M1120	0



FOR MORE **DETAILS**, CHECK OUT TACOM MAINTENANCE INFORMATION MESSAGE 18-010...

ps://tulsa.tacom.army.mil/Maintenance/message.cfm?id=MI18-010.html

PLS Team Mailbox

Have a maintenance question about the palletized loading system (PLS)? Write the PLS team at: usarmy.detroit.tacom.mbx.ilsc-pls2@mail.mil

HEMTT Boom Control Valve

If you've tried to order the replacement HEMTT A2 boom control valve, NSN 4810-01-210-8868, shown as Item 1 in Fig 424 of TM 9-2320-325-14&P in IETM EM 0289 (May 09), it's a terminal item in FED LOG. Some units have resorted to ordering the whole assembly, but that's expensive. Instead, use a HEMTT A4 boom control valve, NSN 4810-01-643-9029. It will also work on the A2.



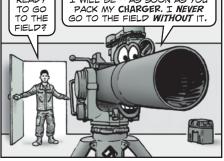
Dear Editor,
These Improved
Target Acquisition
System (ITAS)
tips will help ITAS
stay on target:

• Don't forget the battery charger. PS has pointed out repeatedly the importance of charging the lithium battery boxes (LBB) every month. If they sit for months without being charged, LBBs develop imbalanced battery cells. It takes longer and longer (sometimes days) to charge them and eventually they can't be charged at all. Then you have to pay more than \$30K for a new LBB.

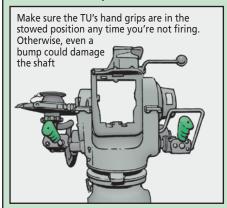


When you deploy, remember to take the charger. It won't do you much good sitting in the motor pool. Without it, you end up with dead batteries.

READY
TO GO
TO THE FIELD WITHOUT IT.

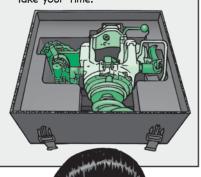


• Don't pick up the traversing unit (TU) by the hand grips. That can snap off the hand grips' shaft. We always tell our people to grab green, not black. Put your right hand under the elevation brake and your left hand under the TU equilibrator.

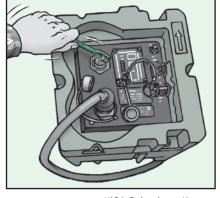




 Don't force the TU into its case. It's a tight fit and you may need help maneuvering the TU. If you try to shove the TU in the case, you can damage the handles. Take your time!



 Before operations, clean the connectors with a toothbrush.
 It takes just a few minutes and can save you wasted time trying to figure out why you're getting system faults.



WO1 Salvadore Mora Ft Bragg, NC

THANKS, MISTER MORA. EXCELLENT TIPS FOR ITAS UNITS TO TARGET! Night Vision Devices, Sights...

STOPPING BATTERY LEAK DAMAGE

REMOVING AND DROPPING US BATTERIES AT THE DOOR IS ONE SURE WAY TO MAKE SURE WE STOP RUINING SIGHTS AND NVDS.



Dear Editor,

Each year, night vision devices (NVDs) and small arms sights suffer thousands and thousands of dollars of damage because they're stored with their batteries installed. The batteries leak and the acid damages or even ruins the NVDs and sights.

All this damage can be stopped with a simple change to the turn-in procedure:

Put a box for the batteries where the NVDs or sights are turned in, normally the arms room. Have Soldiers remove the batteries themselves. When they approach the arms room, they should have the NVD or sight in one hand and batteries in the other. If they don't, you know the batteries haven't been removed. Have the Soldiers put the batteries in the box.

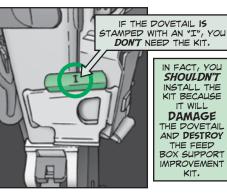
When everything has been turned in, the batteries can be stored in the box itself.

CPL Ryan Latour Ft Hood, TX









INSTALL THE KIT BECAUSE IT WILL DAMAGE THE DOVETAIL AND DESTROY THE FEED

NO "I"? YOU DO NEED THE KIT.

CONTACT TACOM'S KEVIN ACEL AT (586) 282-1339/1273 OR EMAIL: kevin.p.acel.civ@mail.mil

ONCE YOU GET THE KIT, INSTALL IT LIKE THIS ...

- 1. Ensure the U-bracket fits the dovetails snugly. If the bracket is loose, adjust the dovetails for a firm fit. Don't try to adjust the U-bracket.
- 2. Reinstall the U-bracket and brace.
- 3. Apply three drops of thread-sealing compound, NSN 8030-01-025-1692 or NSN 8030-01-499-3589, to the threads of the screw.
- 4. Install the hexagon head cap screw and lock washer.
- 5. Stake the hexagon head cap screw at the 3 o'clock position.

Feed **Box Kit** PMCS

M249 GUNNERS SHOULD CHECK THE FEED BOX SUPPORT IMPROVEMENT KIT SCREW FOR LOOSENESS DURING EVERY PMCS. THE SCREW CAN WORK LOOSE OVER TIME AND FALL OUT.

IF THE SCREW IS LOOSE OR MISSING, TURN THE M249 IN FOR REPAIRS.

SMALL ARMS REPAIRMEN, FIX A LOOSE KIT SCREW BY REMOVING THE HEXAGON HEAD CAP SCREW AND CLEANING IT, THEN FOLLOW THE PROCEDURE ABOVE FOR REINSTALLING THE KIT.

BOXES FOR AMMO AMNESTY



I FORGOT TO TURN YOU GUYS IN AFTER EXERCISES, BUT IT'S OK 'CALISE I CAN PROP YOU OFF HERE IN THIS AMNESTY BOX!

AMMO AMNESTY BOXES
CUT THE RED TAPE FOR
TURNING IN ROUNDS YOU
FORGOT TO TURN IN
WHILE IN THE FIELD.



Dear Half-Mast,

Our Soldiers sometimes come back from exercises with unused rounds they've forgotten to turn in. PS 704 (Jul 11) had an article on ammo amnesty boxes that Soldiers could use for anonymous ammo turn-in. But, unfortunately, the contact information in the article is no longer good. Is there any way to get the boxes?

MSG R.B.

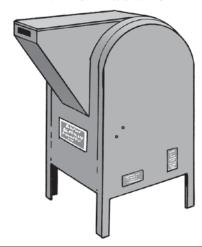


THESE ARE BOXES FOR THE AMMUNITION AND EXPLOSIVES AMNESTY PROGRAM IN WHICH SMALL ARMS AMMO CAN BE THRIED IN ANONYMOUSLY FOR PROPER DISPOSAL.

BOTH THE NSA 0640 AND 0641 HAVE OPENINGS LARGE ENOUGH FOR AMMO AS BIG AS .50-CAL ROUNDS. THE CONTAINERS SECURELY HOLD THE AMMO UNTIL IT CAN BE COLLECTED.

NSA 0640 and NSA 0641 are for anonymous ammo turn-in

THE NSA 0640 LOOKS LIKE A POST OFFICE STREET MAILBOX, WEIGHS 130 POUNDS AND MEASURES 34.1 X 20.6 X 49.5 INCHES.



THE NSA 0641 LOOKS LIKE A SMALLER MAILBOX, WEIGHS 50 POUNDS AND MEASURES 22.8 X 12 X 18.3 INCHES.



IN 2011, YOU COULD PAY THE DEFENSE AMMUNITION CENTER TO MAKE THE BOXES. UNFORTUNATELY, THAT'S **NOT** THE CASE NOW. BUT...

... PETAILED PLANS ARE AVAILABLE FOR FABRICATING THE BOXES LOCALLY.



https://prod.jmc.army.mil/apems3_catalog/ index.aspx/index.aspx?area=resources

Get

Small Arms...

SFL Pen for Touchups

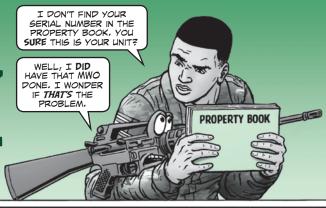


TOUCHING UP AREAS ON WEAPONS WHERE THE FINISH HAS WORN OFF JUST GOT EASIER!

REPAIRMEN CAN NOW ORDER A **SOLID FILM LUBRICANT** (SFL) PAINT PEN DISPENSER WITH NSN 9150-01-646-009. THE DISPENSER MAKES TOUCHING UP NICKS, SCRATCHES AND SHINY SPOTS A **SMAP**.

THE PEN COSTS \$33. Small Arms...

KEEPING PROPERTY BOOK STRAIGHT



MANY ARMS ROOMS HAVE THE **WRONG** WEAPONS INFORMATION LISTED IN THE PROPERTY BOOK, THIS CAUSES HEADACHES FOR THE ARMORER WHEN IT'S TIME FOR INVENTORY OR TURN-IN.

MISTAKES HAPPEN BECAUSE ARMORERS READ THE SERIAL NUMBER INCORRECTLY.

THE USUAL MISTAKE IS ADDING THE PATE STAMP OR EXTRA ZEROES TO THE SERIAL NUMBER.

AS AN EXAMPLE, HERE'S HOW TO READ THE ID STAMP ON THE LEFT SIDE OF AN MK 19 RECEIVER: Serial number is on left side of receiver

Line 1: Gun 40mm Line 2: MK 19 MOD 3

Line 3: 10001 (CAGE code) and 3269400-M (part number)

Line 4: 12345 (four or five digit serial number) and

0196 (month and year of manufacture)

The serial number is 12345, not 123450196.

Note: Not all weapons list date of manufacture.

Line 5: US

ANOTHER MISTAKE OCCURS WHEN
A WEAPON GOES THROUGH A MODIFICATION
WORK ORDER (MWO) AND ITS
MODEL NUMBER CHANGES, WHICH MEANS
ITS NEA ALSO CHANGES.

FOR EXAMPLE, THE BASIC MODEL MK 19 MOD 3 HAS AN NSN OF 1010-01-126-9063. BUT WHEN MWO 9-1010-230-50-1 ADDED AN ADJUSTABLE SIGHT BRACKET, ITS NSN CHANGED TO 1010-01-490-9697.

SO THE NON SHOULD HAVE BEEN CHANGED IN THE PROPERTY BOOK, BUT OFTEN IT ISN'T.

AND THEN THE **PROBLEMS** START AT INVENTORY OR TURN IN.

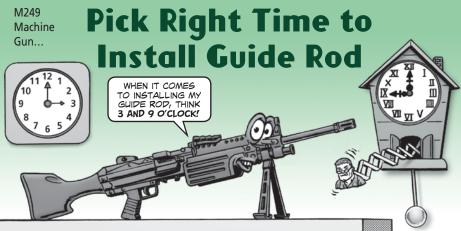


Gun 40mm MK 19 MOD 3

10001 3269400-M

12345 0196



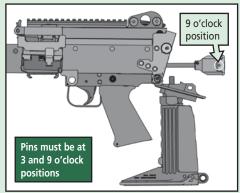


Soldiers are installing the M249 machine gun's guide rod assembly wrong. Eventually, that damages the receiver so much it must be replaced.

The guide rod has two pins. When you install the guide rod, they should be at the 9 and 3 o'clock positions. That way they lock the guide rod in the rear of the M249.

But if you install the guide rod with the pins at the 12 and 6 o'clock positions, the 6 o'clock pin penetrates the receiver during firing.

So when you install the guide rod, always think 9 and 3.





Mask Won't Fit? Try These Solutions

THE M40/M42 MASKS ARE DESIGNED TO FIT ALL BUT THE 10 PERCENT OF SOLDIERS WHO HAVE UNUSUALLY SMALL OR LARGE HEADS.

THE JOINT SERVICE GENERAL PURPOSE MASKS (JSGPM) ARE DESIGNED TO FIT ALL BUT 4 PERCENT.





SOLDIERS WHO **COULDN'T** BE FITTED PROPERLY WITH THE M40/M42 AND HAVE BEEN WEARING THE M45 LAND WARRIOR MASK **MAY** BE ABLE TO WEAR THE JGGPM.

SO WHENEVER UNITS RECEIVE THE JSGPM THEY SHOULD MAKE A POINT OF TESTING IT ON THESE HARD-TO-FIT SOLDIERS.

IF THE JSGPM FITS, THEY SHOULD TURN IN THE M45.

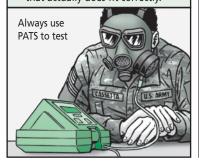
HOW SHOULD CBRN SPECIALISTS CHECK HARD-TO-FIT SOLDIERS FOR BOTH THE M40/M42 AND J6GPM? FIRST DO PMCS AND MAKE SURE THE MASK IS FITTED LIKE IT SAYS IN THE M40/M42'S TM 3-4240-346-23&P OR THE JSGPM'S TM 3-4240-542-13&P.

NO LUCK?

CHECK TB 3-4240-341-23, WHICH OFFERS FITTING SOLUTIONS. IT'S ON THE LOGGA ETM SITE: https://liw.logsa.army.mil/etmapp/#/etm/search

BUT BEFORE WORRYING ABOUT GETTING A DIFFERENT MASK, TRY THESE TIPS:

 Always use the M41 protection assessment test system (PATS) to test mask fit. Banana oil is much less accurate and may flunk a mask that actually does fit correctly.



 If a small mask is too big to create a good seal, readjust and tighten the head harness, then test with PATS again. Sometimes that's enough to do the trick. If it still flunks, make sure the head harness snaps back when stretched. Replace it if necessary.

No luck? Readjust and tighten head harness and test again



Still no fit for the M40/M42? Try the M45 land warrior mask. It has an extra small size, NSN 4240-01-447-6989, that might do the trick. And the large M45, NSN 4240-01-447-6988, is slightly larger than the M40/M42 large.

In addition, the M45 has interchangeable nose-cups in sizes XS, S, M, L, and XL that can provide an even better fit. See TM 3-4240-348-20&P.



IF A SOLDIER MUST WEAR AN M45 BECAUSE THE M40/M42 DOESN'T FIT, HE'S AUTHORIZED BY TB 3-4240-341-23 TO KEEP THE M45 FOR THE REST OF HIS ACTIVE SERVICE.

BUT, ONCE AGAIN, REMEMBER THAT A SOLDIER WHO COULDN'T BE FITTED WITH THE M40/M42 MAY BE ABLE TO WEAR THE JGGPM.

IF A SOLDIER CAN'T BE FITTED WITH THE JSGPM, THEN HIS UNIT SHOULD CONTACT THE EMAIL BELOW FOR HELP.

IF ALL THESE TIPS FAIL FOR EITHER THE M40/M42, JSGPM, OR M45, IT'S TIME TO CONTACT THE INDIVIDUAL PROTECTION TEAM: usarmy.detroit.tacom.mbx.ilsc-masks@mail.mil

THAT'LL GET THE EXPERTS ON THE CASE!



Store CSFM Before Collapsing DSESTS Van

Dear Editor,

Crews for the Direct Support Electrical Systems Test Set (DSESTS) can save themselves thousands of dollars and lots of explaining with a simple check.

Before collapsing the DSESTS van, make sure the Combined Support Functions Module (CSFM) is stored in the General Purpose Interface Assembly (GPIA).

Crews often leave the CSFM sitting on the van's top shelf during operations. But if they forget to put it in the GPIA before collapsing the van, they not only destroy the CSFM (around \$250K), but also the wiring running along the van's ceiling and the shelf itself.

That's not going to make anybody happy, especially your CO. Taking five seconds to make sure the CSFM is in the GPIA is all it takes to prevent that.

CW2 Antonio Reyes Ft Hood, TX

Editor's note: Excellent tip, Chief Reyes. An easy way to remember this is to imagine explaining to your commander that you forgot. Make sure CSFM is stored in GPIA before collapsing van or you destroy...





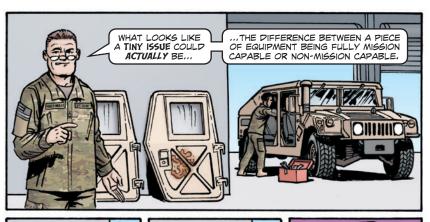


The Anatomy of a Proper PMCS PREVENTIVE MAINTENANCE CHECKS AND SERVICES ARE VITAL TO KEEPING YOUR EQUIPMENT FULLY MISSION CAPABLE.

PMCS INCLUDES CARE, INSPECTION, DETECTION AND SERVICES THAT ALLOW YOU TO CATCH MINOR FAULTS BEFORE THEY BECOME MAJOR PROBLEMS.

















THEN LEADERS CAN ACCOUNT FOR AND TACKLE ANY MAINTENANCE ISSUES BEFORE THEY CAUSE PROBLEMS.







PROPER PMCS
HAS A LOT OF
MOVING PARTS,
FROM THE UNIT
COMMANDER ALL
THE WAY DOWN
TO THE SOLDIER
WHO'S TURNING
THE WRENCH.

THERE ARE ALSO A FEW CRUCIAL DOCUMENTS THAT ENSURE A SUCCESSFUL COMMAND MAINTENANCE PROGRAM...

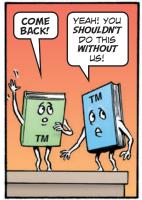


- Equipment technical manuals (TM)
- DA Form 5988-E Equipment and Maintenance Inspection Form
- DA Form 2404 Equipment and Maintenance Inspection Worksheet

















THE
SMARTEST
WAY TO DO
PMCS IS
TO ALWAYS
FOLLOW
THE TM
STEPS.

During PMCS, you'll identify:

- if your equipment has any type of fault or deficiency.
- the cause of the fault or deficiency.
- the requirements to repair the fault or deficiency.
- the equipment's maintenance allocation chart (MAC) repair category.
- the required parts to repair the fault or deficiency.

To document PMCS you'll use either a DA Form 5988-E or

DA Form 2404.

These forms include:

- equipment data.
- service due date.
- requested parts.
- maintenance faults.









IN THE
MAINTENANCE
FAULTS
SECTION, YOU'LL
SEE A SERIES OF
SYMBOLS.

EACH SYMBOL
MEANS SOMETHING
AND EACH ONE IS
WORTH PAYING
ATTENTION TO. HERE'S
A GUIDELINE...



X: Equipment is not FMC

⊗: Indicates a deficiency. However, equipment may be operable under specific limitations as directed by the commander until corrective action is accomplished.

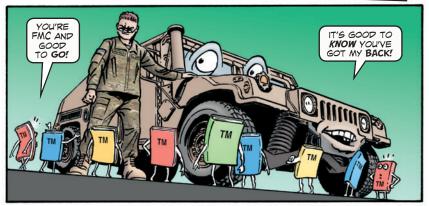
/: Indicates a material defect other than a deficiency that needs correction to make the item completely serviceable.

-: Inspection, check or MWO is due, but not accomplished.

Initials: Indicate when an item has been corrected or verified. The mechanic initials corrected faults, the motor sergeant initials the after review form and the commander initials the limited operations entry.

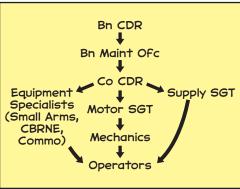


- all faults are identified using the PMCS tables.
- on-hand parts are installed and maintenance is complete.
- necessary parts are requisitioned.
- a work request is submitted for higher maintenance actions.
- all services are performed
- all modification work orders (MWO) are applied.
- all basic issue items (BII)/ components of end items (COEI) are on-hand and serviceable or requisitioned.





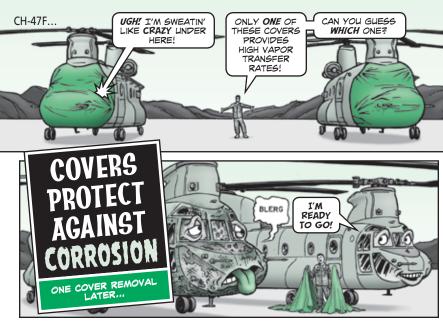












Mechanics, when fighting to **protect** your chinook from the onslaught of corrosion, you need **all** the tools you can get!

AIRCRAFT COVERS ARE A NECESSARY PART OF YOUR AIRCRAFT PROTECTION ARSENAL. SURE, THEY'RE HARD TO USE. BUT WITHOUT THEM, YOUR AIRCRAFT IS YOUNERABLE.

THE CHINOOK AIRCRAFT
COVERS HAVE HIGH VAPOR
TRANSFER RATES AND
SHIELDING PROPERTIES THAT
PROVIDE ENVIRONMENTAL AND
CORROSION PROTECTION. THAT
MEANS THERE'S NO SWEATING
UNDER THE COVERS THAT
CREATES AN ENVIRONMENT
FOR CORROSION.

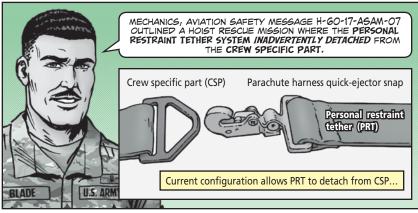
IF YOU NEED NEW COVERS, ORDER WITH THESE NONS THROUGH THE SUPPLY SYSTEM:

Item	NSN 1730-	PN
Cover, aircraft ground	01-593-9707	CH-47-202
Cover, fwd rotor hub	01-593-9690	CH-47-063
Cover, aircraft ground	01-593-9716	CH-47-068
Cover, aft rotor hub	01-593-9723	CH-47-064
Cover, set	01-593-9684	CH-47-067
Cover, aircraft ground	01-593-9711	CH-47-075
Cover, aircraft ground	01-593-9702	CH-47-076
Cover, aircraft ground	01-593-9729	CH-47-073
M130 flare cover, right-hand	01-594-2207	CH-47-074
Cover, aircraft ground	01-593-9515	CH-47-150
Cover, console set	01-593-9662	CH-47-127
Cover, aircraft ground	01-593-9697	CH-47-124
Cover, aircraft ground	01-593-9736	CH-47-128
Cover, aircraft engine	01-593-9359	CH-47-060
Cover, aircraft engine	01-593-9488	CH-47-059



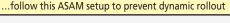






AFTER AN INVESTIGATION, PM AIR WARRIOR DETERMINED THAT DYNAMIC ROLLOUT CAUSED THE PRT PARACHUTE HARNESS QUICK-EJECTOR SNAP TO RELEASE FROM THE CSP.

THE EJECTOR SNAP AND CSP GOT TWISTED OR SNAGGED ON ANOTHER PIECE OF EQUIPMENT.



Crew Lockable specific carabiner KN-31 part rating or higher Oval steel screw link (9mm)

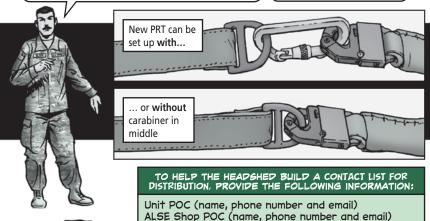
Place three (3) wraps of 0.040 inch safety wire around the ejector snap quick release tab

Parachute harness quick-ejector snap



ALSO, AS A RESULT OF THE ASAM, PM AIR WARRIOR DEVELOPED AND IS ISSUING UNITS **NEW**PERSONAL RESTRAINT TETHERS FOR FREE.

UNITS WILL RECEIVE ONE PRT FOR EACH NON-RATED CREWMEMBER.



Unit DODÁAC

Unit Shipping Address

EMAIL THE INFO TO: tracy.d.hicks.civ@mail.mil

BE ON THE OOKOUT FOR NEW PRTS!



THE WAY TO TURN IN UNSERVICEABLES





YOU WON'T FIND THE GUN'S LIN LISTED ON THE MODIFIED TABLE OF ORGANIZATION EQUIPMENT (MTOE).

INSTEAD, THE GUN WILL SHOW AS AN ASSOCIATED LIN TO THE AIRCRAFT,

IT'S **PIFFICULT** TO DETERMINE A YEARLY REPAIR STRATEGY BECAUSE OF BUPGET RESTRICTIONS.

HOWEVER, WHEN REPAIR IS POSSIBLE, FIRST PRIORITY GOES TO GUNS IN SUPPORT OF POWNRANGE MISSIONS.



BE AWARE THAT YOUR REQUEST POCUMENT NUMBER IN PBUSE AND GCSS-ARMY MAY BE REJECTED.

> DO NOT TRY TO CORRECT THIS!

- Turn in the gun as a field turn-in excess (FTE). Email a copy of the
- 2. If you need a replacement gun, NSN 1005-01-392-8598, use normal PBUSE/GCSS-Army requisitioning procedures. The M230 is a Class VII item. So any requisitions ordered through Class IX will be rejected.
- 3. Once the turn-in is documented and a replacement ordered, email the PBUSE/GCSS-Army document number to Frances Cash along with a 'ship to' address, POC and commercial phone number. Major items cannot be shipped without this information and will cause delays.

THE REJECTION IS USUALLY DUE TO NOT TRACKING A SHORTAGE BELOW MTOE AUTHORIZATION. ALL "FLOATER" REQUESTS WILL BE REJECTED SINCE THIS IS ABOVE YOUR AUTHORIZATION.

IF THIS HAPPENS WITH YOUR ORDER, THE ITEM MANAGER WILL VERIFY AND VALIDATE AUTHORIZED ASSETS AGAINST THE UNIT'S ACTUAL ON-HAND QUANTITIES.

WHEN THE VALIDATION IS COMPLETE, THE MATERIAL RELEASE ORDER (MRO) WILL BE REINSTATED (IF A SHORTAGE EXISTS) USING A TACOM DOCUMENT NUMBER (IF APPLICABLE).

YOU'LL BE NOTIFIED BY EMAIL.

39 **DFC 18**

DA Form 2028 NOT a One-Stop Shop

THERE'S NOTHING MORE FRUSTRATING THAN FINDING A PROBLEM WITH SOME EQUIPMENT AND WANTING TO GET IT FIXED IMMEDIATELY! I CAN THINK
OF ONE THING:
SOLPIERS
USING THE
WRONG FORM
TO REPORT THE
PROBLEM!





IN CASES LIKE THIS,
THE DA FORM 2028,
RECOMMENDED CHANGES TO
PUBLICATIONS AND BLANK FORMS,
IS THE CONVENIENT AVENUE FOR
MAINTAINERS TO WRITE UP DESIGN
PROBLEMS OR ASK QUESTIONS
ABOUT BROKEN EQUIPMENT.

PROBLEM IS, THAT ISN'T WHAT THE 2028 IS DESIGNED TO DO.

IF YOU USE THE 2028 TO REPORT ANYTHING OUTSIDE OF PROBLEMS WITH THE TECHNICAL MANUAL (TM), THE EQUIPMENT HEADSHED CAN'T HELP.

IF YOU WANT HELP WITH PROBLEMS RELATED TO A PEFECTIVE OR INCORRECT REPLACEMENT PART, AN SF 3G8, PRODUCT QUALITY DEFICIENCY REPORT (PQDR) IS THE WAY TO GO.

PQDR'S NOTIFY THE EQUIPMENT'S ITEM MANAGER WHEN SYSTEMIC FAULTS OCCUR SO THEY CAN INVESTIGATE AND PETERMINE THE CAUSE.

SUBMIT ALL ARMY PQDRS AT:

	PRO	DUCT QUALITY	DEFICIEN	CY REPOR	T (PQDR)		
CHTESORY	D:	ARPORT CONTAGL VLANGER (ACA)	-		cutt		
to FFOM Cope at Chica Na	dig Cabino PCIAN)	esker	16.00	SERVICE VALUE	PROFESSIONER C	EUX, JEDI	EE
24 TO (PODY Servering Pro	e ·		3.5	RESIDE PORT	KAE TELEPONE	V.DEFE E	EAL ROCKIST
3 DESCRIPTION OF SERVI recommendations After one a the networks on the Section		d what is every dissimpliane as Costinue or argumbs do	es pour le lie diffu est il enue many. Co	d professe cause	aty attion taken, at	od malayene fathed	4 DATE DEPLOENCE AND DE-COMERCO
E DEFICIENT ITEM NATION WARREST AND I	A STOCK & DOT	CENT TEN YOMENCAT	и		7 ORGINTRO	Days Service	Friends
E COP CHICK THE EMPT IN	OMEST NAMED OF	Charitation	DE WALLES	TORREST DITES SE			
TO DURATIVO A RECEIVED 1 WOPELTES 1 DEFICIENT	SERIAL P	COT ON BATCH COMMEN	Ca FBI	Manufactured	SADE DIAMETERS DIAMETERS BE		
i in stock	\$275mm	NA.	O Comm	Overheales.			
TO COMPACT NUMBER IN SCHEDULES THURSES TO EST THE SEX ASSESSES 1 NO.	NO SWI	CHE CHOSEN WARNES	TY NE YEAR		SITE WEST	N BOW.CE	
TERTEN A NO.	h NOMENGLA	rue .		TYPENIOEL	4 36 %	NUMBER	
R COUNTY AGENCE Decrete postes R COUNTY PRINCE AGE	Desirose o	/onstroven	HEP-LPED	(See 2 ork pro	ystess stymon	fine 1	
	beautised only one waited	□REPLACEMENT	PONE	Con	or Dav	El (Equino)	Plot 3

THERE ARE OTHER AVENUES OF HELP, TOO.

YOUR QUALITIY CONTROL (QC) DEPARTMENT CAN ASSIST WITH MANY ISSUES. AND IF EQUIPMENT IS STILL UNDER WARRANTY, THE ORIGINAL EQUIPMENT MANUFACTURER (OEM) CAN USUALLY FIX THE PROBLEM.

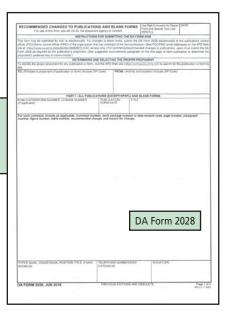
BUT IF YOU HAVE A SPECIFIC PROBLEM WITH THE TM, SUCH AS AN IMPROVEMENT TO A PROCEDURE OR REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) ISSUE, THE DA FORM 2028 IS THE WAY TO GO. AND BE SURE TO INCLUDE THE SPECIFIC INFORMATION NEEDED ON THE FORM.

IF YOU WANT TO CORRECT TM ERRORS, SUGGEST NEW PROCEDURES, CHANGE AN ILLUSTRATION OR FIX INFORMATION IN A TABLE, THE 2028 PROVIDES ROOM TO FILL OUT THE:

- item number
 line number
- task system/subsystem
- page
- fig para

 - table number

FOR APACHE INTERACTIVE IETMS, INCLUDE THE TAIL NUMBER.



ALSO, ATTACHING A PDF OF THE WP OR ILLUSTRATION CAN BE HELPFUL TO THOSE ASSIGNED TO RESEARCH THE 2028 SUBMISSION.

REMEMBER TO CORRECTLY STATE THE WORK PACKAGE NUMBER AND THE TITLE OF THE AFFECTED MANUAL.

FOLLOW YOUR UNIT'S SOP WHEN SUBMITTING THESE FORMS

https://www.logsa.army.mil/web2/archive/PS2017

IN THE COMMENTS SECTION OF THE 2028, BE SPECIFIC ABOUT THE ISSUE YOU'RE FACING AND WHY CORRECTIVE CHANGE IS NECESSARY.

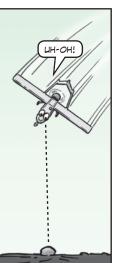


YOU'LL FIND INFO ON WHERE AND HOW TO SEND 2028S ON PAGES 58-59 OF PS 779 (OCT 17):

and check out page 53 for changes on how to submit TACOM 2028s.

RQ-7B Shadow...

PREPARE FOR PROPELLER DAMAGE











RQ-7B SHADOW LIMANNED AIRCRAFT SYSTEM (UAS) PROPELLERS CANT TAKE A LICKING AND KEEP ON TICKING! THAT'S BECAUSE WHEN A SHADOW LANDS ON AN UNIMPROVED RUNWAY, ITS TAIL HOOK STRIKES AND DRAGS ON THE GROUND. ROCKS, DIRT AND OTHER DEBRIS GET THROWN AGAINST THE PROPELLER. SINCE IT'S MADE OF WOOD WITH A RUBBERIZED COATING, THE PROPELLER CAN'T SHAKE OFF THE DAMAGE.



THE QUICK AND EASY SOLUTION IS TO LAND ONLY ON PAVED RUNWAYS.

UNFORTUNATELY, THAT'S **NOT ALWAYS** POSSIBLE.



A TURNAROUND/ AIR VEHICLE (AV) POST FLIGHT INSPECTION IS REQUIRED AFTER EVERY LANDING.

IT'S EVEN MORE
IMPORTANT AFTER
LANDING ON AN
UNAPPROVED
RUNWAY.

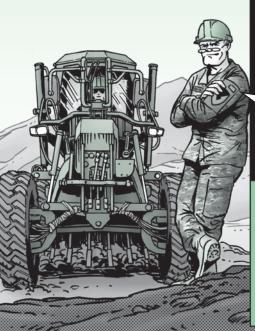
AFTER
THAT, THE
PROPELLER
SOMETIMES
HAS TO BE
REPLACED.



FOLLOW THE INSTRUCTIONS IN TM 1-1550-689-23&P (V1) OR TM 1-1550-1689-23&P (V2).

THE AV SPECIAL INSPECTION WORK PACKAGE FOR TWO-BLAPED PROPELLER LEADING EPGE DAMAGE IS A GREAT SOURCE OF INFORMATION TO HELP DETERMINE WHEN THE PROPELLER SHOULD BE REPLACED.

Caterpillar Equipment...



NEED HELP? HERE'S WHERE TO GO

OPERATORS AND MECHANICS, IF YOU NEED EXTRA HELP WITH YOUR CATERPILLAR MILITARY ELECTRONIC TECHNICIAN (ET) LINK OR WOULD LIKE TO REQUEST ADDITIONAL TRAINING, KEEP THESE POINTS OF CONTACT HANDY:

- For truck engines, marine propulsion, transmissions, industrial engines, trim files, and military ET, email Pat Bowen at:
- bowen_pat_c@cat.com
 For construction equipment, email Greg Costley at:
 costley_dregory_e@cat.com
- costley_gregory_e@cat.com
 For generator sets, email
 Mike Weiland at:
 weiland_michael_d@cat.com

Cat Engine/Military ET Training

Training is available for an additional cost. For more information, go to: http://www.cat.com/en_US/by-industry/governmental-defense/ military-trainingschedule.html

For training help, email Dave Shipley at: shipley_dave_l@cat.com

DOTR II DOZER... GET BROKEN STABILIZER MOUNTING BOLT REPLACED FREE



• perators, take a minute to eyeball the condition of the Grade 5 mounting bolts on your D7R II dozer's stabilizer link.

See a busted bolt? Your maintenance tech can have it replaced at no cost by contacting a local CAT dealer. Find yours by searching at:

https://www.cat.com/en_US/support/dealer-locator.html

The dealer will replace the left- and right-hand mounting bolts with a Grade-8 bolt, NSN 5306-01-580-2030, and torque it to 430 lb-ft.

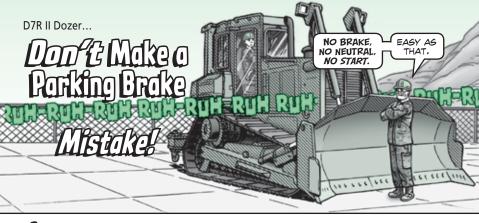
This warranty repair is only available to dozers with serial numbers KNA01530 through KNA01733. Use CAT service letter PS45607 to schedule the repair.

All travel and mileage costs are covered by Caterpillar, too. If there are any problems, have your local dealer contact the CAT Corporation's Greg Costley at (309) 578-3295 or by email at: costley_gregory_e@cat.com



The last day to have this free service repair is 30 Sep 2019.

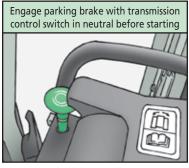
PS 793 44 DEC 18



Operators, it's a real easy mistake to make: You hop in the cab and start cranking on the engine starter, but your D7R II dozer doesn't start and you're going nowhere.

And guess what? You can try all day long—or at least until the battery goes dry or the starter burns out—but unless you engage the parking brake and the transmission control switch is in neutral, that dozer ain't startin'!

If this happens to you, make the parking brake and transmission control switch your first check. It just might make for a much less stressful day.



Pay Attention to Messenger Display Codes

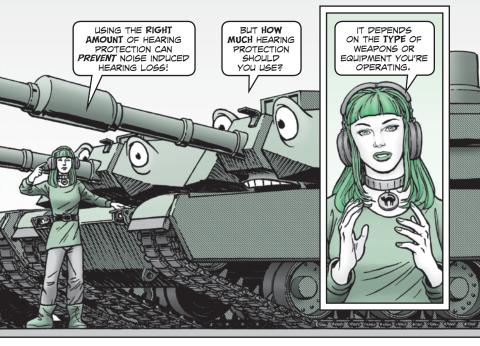


OPERATORS, THE
D'AR II'S MESSENGER
DISPLAY PROVIDES A
SERVICE CODE MENU
TO HELP DIAGNOSE
VEHICLE SYSTEM
MALFUNCTIONS.

SO AFTER START UP, MAKE A POINT TO JOT DOWN ANY ERROR CODE NUMBERS THAT POP UP.

THEN TELL FIELD MAINTENANCE SO THEY CAN MAKE A PROPER DIAGNOSIS.

HOW MUCH WEARING PROTECTION SHOULD YOU USE?



THE TWO MOST COMMON TYPES OF NOISE HAZARDS YOU'LL ENCOUNTER ARE:



OR



STEADY STATE NOISES ARE CONTINUOUS SOUNDS ABOVE 85 DECIBELS THAT LAST FOR EXTENDED PERIODS OF TIME.

STEADY STATE NOISES ARE CAUSED BY CERTAIN TYPES OF EQUIPMENT, INCLUDING GENERATORS, WHEELED AND TRACKED VEHICLES AND AIRCRAFT. IMPULSE/IMPACT NOISES ARE HIGH-LEVEL,

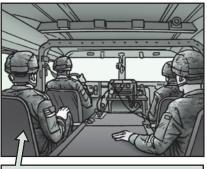
SHORT-DURATION NOISES MEAGURED AG PEAK PRESSURE DECIBELS (ABP).

IMPULSE OR IMPACT NOISES ARE CAUSED BY WEAPONS FIRE, ARTILLERY AND EXPLOSIONS.

YOU MUST WEAR HEARING PROTECTION WHEN EXPOSED TO STEADY STATE NOISE ABOVE 850B OR IMPULSE/IMPACT NOISE ABOVE 1400B.

IF YOU'RE RIDING IN A HMMWV OR FIRING A RIFLE OR HANDGUN, YOU'RE USUALLY FINE WITH EAR PLUGS OR NOISE MUFFS.

SOME VEHICLES, AIRCRAFT AND WEAPON SYSTEMS REQUIRE POUBLE HEARING PROTECTION. THAT MEANS A COMBINATION OF EAR PLUGS AND NOISE MUFFS.



Steady state noise requires one form of hearing protection



Some environments require double protection

NOT SURE HOW MUCH HEARING PROTECTION YOUR OPERATING ENVIRONMENT CALLS FOR? YOUR OPERATOR'S MANUAL WILL INDICATE THE LEVEL OF PROTECTION REQUIRED OR YOU CAN CONSULT DA PAM 40-501, ARMY HEARING PROGRAM. WORK WITH YOUR POST HEARING PROGRAM MANAGER OR UNIT HEARING PROGRAM OFFICER TO DETERMINE THE PROPER LEVEL OF HEARING PROTECTION.

NEED A COPY OF DA PAM 40-501? GET IT HERE: http://armypubs.army.mil/epubs/DR_pubs/DR_a/pdf/web/p40_501.pdf

New JECP SKI TM

TM 3-6665-431-13&P for the Joint Expeditionary Collection Protection (JECP) Family of Systems (FoS) is now available. It covers the Structure Kit-Improved (SKI), which is a standalone protection shelter designed to be used in a chemical, biological, radiological (CBR) environment for Rest and Relief (R2) and Command and Control (C2). The SKI can also be actively connected to other SKI systems. The TM covers SKI NSNs 4240-01-652-3174, -3185, -3176 and -3182. Distribution is restricted, so you'll need to log in to the Logistics Information Warehouse with your CAC at: https://liw.logsa.army.mil/
Then choose the "ETM/IETM" icon and search for the TM.

Army Training Devices Catalog

The Program Executive Office for Simulation, Training and Instrumentation (PEO STRI) published the PEO STRI Index and Description of Army Training Devices Catalog (Mar 18). It gives an overview of available Army-wide training devices. It replaced DA Pam 350-9, *Index and Description of Army Training Devices* (May 10). The catalog is available on AKO. You'll need to sign in with your CAC. Go to:

https://www.ako1.us.armv.mil/suite/files/49994342

Publications...

Get Combat Skills GTA



GRAPHIC TRAINING AID (GTA) 07-71-001, COMBAT SKILLS FOR SMALL LINIT LEADERS (APR 18), IS A POCKET-SIZED QUICK REFERENCE GUIDE.







THE GTA COVERS EVERYTHING FROM WEAPON STATUS AND RANGES TO NAVIGATION, HAND AND ARM SIGNALS, RAPIO OPERATIONS, MOPP PROCEDURES, CAMOUFLAGE AND MUCH MORE.

TO GET IT, VISIT: http://www.train.army.mil/



CLICK ON SIGN IN TO THE CENTRAL ARMY REGISTRY (CAR)
AND SIGN IN WITH YOUR CAC, CLICK THE PRODUCT TYPE DROPDOWN IN THE LEFT-HAND COLLIMN, SCROLL DOWN AND CLICK ON GTA-GRAPHIC TRAINING AID.
ON THE NEXT SCREEN, CLICK START NEW SEARCH AND TYPE IN GTA 07-71-001, CLICK SEARCH THE CAR.

CVC Helmet Shell NSN Updates

If you've tried to order a combat vehicle crewman (CVC) helmet shell with NSN 8470-01-389-3815 (small) or 8470-01-389-3821 (large), you've likely run into the brick wall of acquisition advice codes V and Y. That's because the small CVC helmet shell has been replaced by a medium shell, NSN 8470-01-631-7990, and the large shell is now NSN 8470-01-631-7993. Make a note of these changes.



FINDING HARRIS RADIO INSTALLATION INSTRUCTIONS

Dear Half-Mast,

I need to mount an RT-1694D in an M1165A1 HMMWV. I've searched for a TB without any luck. I've installed multiple SINCGARS and Blue Force Tracker vehicular systems, and they all have TBs with installation instructions. Where's the TB showing the correct mounting locations and other info for the RT-1694D vehicular mounting kits?

SGT P.J.



RT-1694D IS PART OF THE HIGH-FREQUENCY RADIO SET AN/VRC-104(V)6, NSN 5820-01-575-9305.

UNFORTUNATELY, SERGEANT, THERE'S NO ARMY TB FOR AN/VRC-104(V)6 INSTALLATION IN THE M1165A1.

NO WORRIES, THOUGH, INSTALLATION INSTRUCTIONS ARE FOUND IN HARRIS PUBLICATION #10515-0388-4500. GET A COPY OF THIS OR OTHER HARRIS PUBS BY GOING TO: https://tcpremier.harris.com

ONCE YOU REGISTER FOR PRODUCT SUPPORT, YOU'LL HAVE ACCESS TO HARRIS TMS, SOFTWARE, FIRMWARE AND TRAINING DOCUMENTS.

YOU'LL ALSO GET ACCESS TO PRODUCT SERVICES WHERE RETURNED MATERIAL AUTHORIZATIONS (RMAS) ARE ISSUED. THEN, IF NEEDED, YOU CAN SEND EQUIPMENT BACK TO HARRIS FOR FACTORY REPAIR.

YOU'LL ALSO GET WARRANTY INFO, VIDEOS ON HOLD-UP BATTERY REPLACEMENT, FIRMWARE UPGRADES AND TYPE-1 RE-INITIALIZATION OF YOUR RADIOS.

ONCE YOUR ACCOUNT IS ACTIVE, YOU CAN FIND THE MANUALS OR MATERIALS YOU NEED AND DOWNLOAD 'EM AT YOUR CONVENIENCE.

MAKE A NOTE: THE MK-3473/VRC INSTALLATION KIT, NSN 5895-01-656-9515, HAS THE BRACKETS AND MISCELLANEOUS ITEMS REQUIRED FOR THE AN/VRC-104(V)6 INSTALLATION IN THE MII65AL.



Cover That STT, STAT!

Dear Editor,

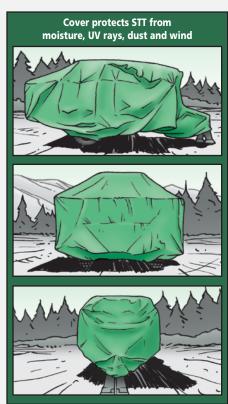
When stationed in Hawaii as a CECOM LAR, I saw numerous equipment issues caused by moisture. Satellite transportable terminals (STTs) were especially affected.

After I came back to CONUS, I saw a white cover fully engulfing an STT. It fit as if it were part of the original fielded equipment. Since it was the first time I ever saw this cover, I hunted down more information about it.

I thought this pre-made weatherproof cover could also benefit units back in Hawaii by protecting their STTs, so I spread the word.

Although STT covers were eventually assigned NSNs, which have been available for about a year, I think only those who are lucky enough to be stationed in Hawaii are aware of them.

The cover gives STT components protection from the elements. Using a cover helps reduce issues caused by water, dust and UV light. STT covers have the potential to save thousands of dollars in damaged equipment, hours of down time and could possibly extend the life of existing equipment by reducing exposure.



The cover for STT versions AN/TSC-167, -185, and -202 is NSN 2590-01-659-8520. The AN/TSC-208's cover is NSN 5895-01-660-1672. Can you help me spread the word?

Jeffery J. Curley Ft Hood, TX

Editor's Note: We just did, Sir! The Army's STT subject matter experts agree these covers are a smart bet. They were custom-made for the STTs WIN-T Increments 1 and 2 to protect them from the elements. Units, plenty of covers are still available, but that may change if there's a run on 'em!

PS Mag Live



PS Mag Live!

Download the PS mobile app at the Android and Apple stores: do a search for *P.S. Magazine*.

Read PS online at:

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

Follow PS on Facebook:

https://www.facebook.com/armypsmagazine/

Follow PS Magazine/Half-Mast on Twitter:

https://twitter.com/USArmyPSMag

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







THE CENTER FOR ARMY LESSONS LEARNED (CALL) HAS RELEASED MISSION COMMAND SYSTEMS INTEGRATION (MAR 18).

THE HANDBOOK IS FOR OPERATORS OF THE MISSION COMMAND SYSTEMS AND DIGITAL STAFF.



MISSION COMMAND SYSTEMS COVERED INCLUDE:

- Command Post of the Future (CPOF)
- Advanced Field Artillery Tactical Data System (AFATDS)
- Air and Missile Defense Workstation (AMDWS)
- Distributed Common Ground System-Army (DCGS-A)
- Global Command and Control System (GCCS)-Army/Joint
- Force XXI Battle Command Brigade and Below (FBCB2)/Joint Capabilities Release (JCR)

IT ALSO COVERS THE FOLLOWING, WHICH ARE NOT MISSION COMMAND SYSTEMS BUT SHARE INFORMATION WITH THEM:

- Tactical Ground Reporting System (TIGR)
- FalconView
- Global Combat Support System-Army (GCSS-Army)

THIS PUBLICATION IS RESTRICTED. TO VIEW OR POWNLOAD HANDBOOK NO. 18-12 OR OTHER CALL PRODUCTS, GET YOUR CAC AND VISIT:

https://call2.armu.mil/



Changes to TACOM's DA Form 2028 Process



DA-FORM

2028

YOU GOTTA SEND ME IN? YOU ALWAYS HAD SOME CHOICES, BUT NOW THERE ARE CHANGES TO THOSE CHOICES! YOU CAN STILL SEND ME ONLINE, THROUGH EMAIL, FAXED AND THROUGH THE GOOD OL' POSTAL SERVICE.. BUT THINGS ARE A LITTLE DIFFERENT NOW!



ON PAGES 58-59 OF PS 779 (OCT 17), WE TOLD YOU WHERE TO SUBMIT A PA FORM 2028 TO UPPATE TMS WITH INCORRECT PART NUMBERS OR OFFER ADVICE ON BETTER PROCEDURES.

SINCE THEN, TACOM MADE SOME CHANGES TO THE PROCESS.

IF YOU NEED TO SUBMIT A DA FORM 2028 TO TACOM,
USE ONE OF THE FOLLOWING METHOPS...

THE PREFERRED AND QUICKEST WAY IS THROUGH THE TULSA DA FORM 2028 WEBSITE:

https://tulsa.tacom.army.mil/da2028/da2028.cfm

YOU CAN ALSO EMAIL A COMPLETED DA FORM 2028 IN PDF FORMAT TO THE EPCO AT:

usarmy.detroit.tacom.mbx.ilsc-tech-pubs@mail.mil

DOWNLOAD THE

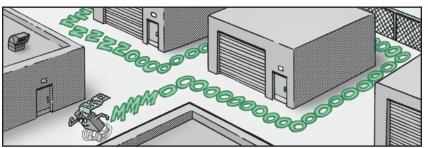
https://armypubs.army.mil/ ProductMaps/PubForm/DAForm.aspx

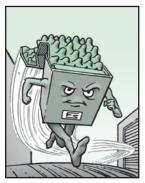
MAIL A COMPLETED DA FORM 2028 TO:

FAX A COMPLETED DA FORM 2028 TO: DSN 786-1856 OR (586)-282-1856

U.S. Army Tank-automotive and Armaments Command ATTN: AMSTA-LCL-IMP/Tech Pubs MS #727; 6501 E. 11 Mile Road Warren MI 48397-5000 QUESTIONS ABOUT THE NEW PROCEPURES? SENP AN EMAIL TO: usarmy.detroit.tacom. mbx.ilsc-tech-pubs@ mail.mil



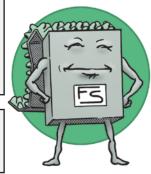




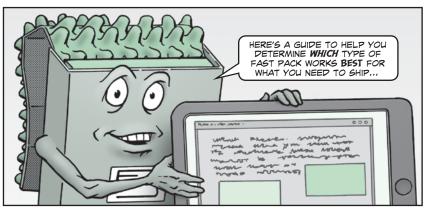


FAST PACKS ARE PRE-FABRICATED, CUSHIONED CONTAINERS THAT PROVIDE EXCELLENT PROTECTION FOR SHIPPED ITEMS.

FAST PACKS ARE ALSO EASY TO USE, REUSABLE AND INEXPENSIVE.



USE FAST PACKS TO SHIP
DELICATE ITEMS THAT ARE LIKELY
TO GET DAMAGED DURING THE
TRIP, LIKE THESE CIRCUIT CARDS
WHICH COULD FALL PREY TO AN
ELECTROSTATIC DISCHARGE (ESD).

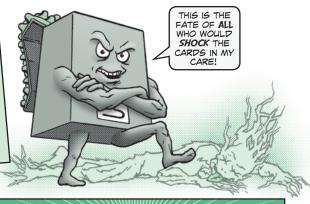




• Type 2, Folding Convoluted Pack:

This one works best for circuit cards and other flat items. They are also available with antistatic cushioning for ESD packaging.

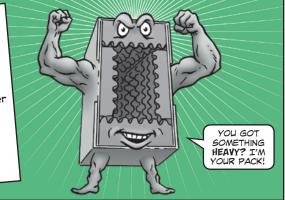
10 pounds is the maximum weight for this type of pack.



Type 3, Telescoping Encapsulated Pack:

Use this type if you need to ship larger items like amplifiers, or power supply units.

This type of fast pack is a heavy lifter, capable of shipping up to 90 pounds.



Type 4, Horizontal Star Pack:

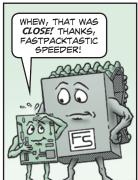
This pack works best on longer, rectangular items. Use this type of pack to ship voltage regulators, panels or transmitters.

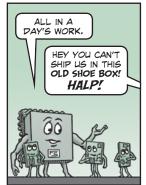
The maximum weight for this container is 31 pounds.

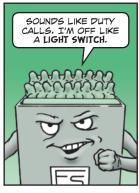




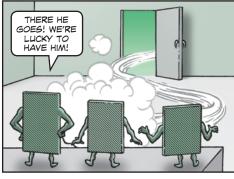












READ MORE ABOUT FAST PACKS AND OTHER SHIPPING METHODS IN THE LOGGA PSCC'S PACKAGING: THE BASICS. DOWNLOAD A COPY HERE: https://liw.logsa.army.mil/res/documents/Packaging_The_Basics_JAN_2018_sml.pdf

AND FOR FAST PACK NSNS, CHECK OUT PAGES 27-31 OF PS 752 (JUL 15): https://www.logsa.army.mil/web2/archive/PS2015/752/752-27-31.pdf



GCSS-Army... Team Up with the AIT



YOU, YOUR AUTOMATIC IDENTIFICATION TECHNOLOGY HAND-HELD AND THE GCGG-ARMY AIT MENU ON YOUR DESKTOP MAKE A GREAT TEAM DURING WAREHOUSE OPERATIONS.



USE YOUR AIT HANDHELD TO:

- post goods receipts.
- perform a post goods issue.
- query your stock.
- •post customer receipts.
- post inventory counts.
- confirm the cross-dock transfer order.
- confirm transfer orders to the warehouse bin.

WHEN YOU'RE USING THE GCSS-ARMY AIT PORTAL, KEEP THESE TRANSACTION CODES IN MIND ...

MIGO: pos	ocesses a material document change. Use this transaction to st found on installation items (FOIs) Condition Code Changes D9) and processing documents.
	, ,
	ows a list of inbound deliveries awaiting Post Goods Receipt GR) at either customer or SSA level.
ZMB59: diff	t of Material Documents posted. These reflect actual inventory ferences at the IM level, not the warehouse (bin) level. There movement types for every change to inventory completed.
ZPROSTAT: STO	ows a list of Purchase Orders/Stock Transport Orders (POs/Os) created in the system. This report can also be used to ate a reconciliation report in wave 1 for customers. Report plays both open and closed orders.
VLO2N: Cha	anges an Outbound Delivery. You can also perform a st Goods Issue (PGI) using this transaction code.

CONDUCTING
A STOCK
OVERVIEW?
USE THESE
T-CODES:

MMBE:

Allows you to view on-hand (O/H) balance for a material by storage location/material requirements planning area (SLOC/MRP area). It also allows you to view at both the IM- and WM- levels.

L526:

View a material stock situation by warehouse, storage type or bin.

LS24:

View a material stock situation at the warehouse bin level.



SWICE Online Training

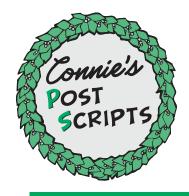


The SWICE SP 3 connects with the Maintenance Support Device version 3 (MSD-V3) and the equipment tested to perform standard voltage, current, resistance, pressure and rpms and capture digital diagnostic data.

A course on using the SWICE SP 3 is offered through milUniversity:

https://www.milsuite.mil/university/msd-training-class/courses/smart-wireless-internal-combustion-engine-swice-sp3-net-course/

You'll need your CAC to register.

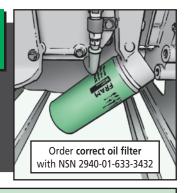


TM CONFUSES HMMWV TOW BAR BRACKET WITH SPRING TENSION WASHER

A misprint in Fig 209 of TM 9-2320-387-13&P in IETM EM 0323 (Mar 14) may cause confusion if ordering HMMWV replacement tow bar brackets. Items 15 and 16 are transposed. The **tow bar brackets**, NSN 2540-01-599-0075, should be labeled as Item 15 while Item 16 is the **spring tension washer**, NSN 5310-00-595-7486.

Order *Right* M113 FOV Oil Filter!

When ordering a new oil filter for the M113 FOV's 6V53 engine, always use NSN 2940-01-633-3432 (PN PH3612). It replaces NSN 2940-01-197-7106 (PN FL804FP), which is shown as Item 9 in Fig 24 of TM 9-2815-205-24P. The old oil filter has a high rate of failure that can lead to engine fires. Make a note until the TM is updated.



HEMTT Load Test Guidance

Get crane load test instructions for the HEMTT A0 in TM 9-2320-279-14&P in IETM EM 0290 (Jun 09) and for the HEMTT A2 in TM 9-2320-325-14&P in IETM EM 0289 (May 09). Refer to TM 9-2320-326-13&P in IETM EM 0288 (Dec 15) for the HEMTT A4 fleet. In each IETM, look for "Load Test Procedures for Grove M977, Grove M984A, and Grove M985 Cranes."

M149A2 Trailer Landing Leg NSN

Items 1 and 27 in Fig 16 of TM 9-2330-267-13&P are reversed. Item 1 should be the complete landing leg described as "Support Retractable," NSN 2590-01-183-6816. This NSN brings an assembly that includes Items 1–34. Item 27 should be "Leg Semitrailer Ret," NSN 2590-01-254-6554, which is a down part to the landing leg. Make a note until the TM is updated.

H-GO Series Unserviceable Rig Connecting Links Needed

The supply system is in critical need of unserviceable **rig connecting links**, NSN 3040-01-197-1745 (PN 70400-08110-060), for the H-60 Series. Turn in this needed asset as they become available. The part is needed now for a repair program. Without turn-ins, you might not get the repaired part you need for your helicopter later.

MOBILE APP FOR RECOVERY OPERATIONS

The direct recovery operations (DRO) mobile app is now available. It calculates resistances such as mire factors and accurate fall line force (FLF). It also provides the automatic mechanical advantage adjustment if the FLF exceeds the recovery vehicle's winch capacity. And the app calculates the weights of more than 200 vehicles. Download the app for your Android and Apple devices at the Google Play Store and Apple Store. Search for Direct Recovery Operation.

Bulk Tie-Down Cord

Replacing frayed or broken cargo cover tiedown cord is a lot cheaper when you order it in bulk with NSN 4020-01-545-0772. That NSN brings a 200-ft roll of ³/₈-in elastic cord for about \$61.

MEP-805B 30-KW FUEL INJECTION PUMP

Order a new fuel injection pump for the MEP-805B 30-kW generator with NSN 2910-01-476-8668 (PN RE505411). It replaces the pump shown as Item 4 (PN RE67563) in Fig 1 of TM 9-2815-259-24P (Nov 00). Make a note until the next TM update.

PSCC HELPS WITH TRANSPORTING HAZMAT

Turn to LOGSA's Packaging, Storage, and Containerization Center (PSCC) if you need help when transporting HAZMAT. PSCC provides advice on HAZMAT packaging and handling. Call PSCC for help:

(570) 615-7756 or DSN 795-7144 Or send them an email:

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

ECU Systems Turn-in from Germany/OCONUS

On Page 51 of PS 787 (Jun 18), we alerted you to the OCONUS ban of R22 refrigerant in Environmental Control Unit (ECU) systems. An important update is that units in Germany/OCONUS should only send inoperable ECU systems to Tobyhanna Army Depot (TYAD). **Don't** open any ECU systems containing R22. Instead, ship them to:

TYAD: RIC: BY6 PLANT: 7000 DODAAC: W25G1W XR W1BG UEF DIST DEPOT TOBYHANNA

MYERS AND SECOND STREETS

WAREHOUSE 2 BAY 1

TOBYHANNA, PA 18466-5059

Forward a copy of all shipping documents prior to shipment to:

sydney.w.mapp3.civ@mail.mil

Questions? Contact Fran Munley at (570) 615-7344, email: francis.munley@dla.mil
Or Joseph Mallov at (570) 615-7917. email: ioseph.mallov@dla.mil

FSC-2 NSN Correction

On Page 54 of PS 789 (Aug 18), the FSC-2 NSN is missing a digit. It should be 7360-01-496-2112.

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

PMCSthe gift that keeps on giving!

