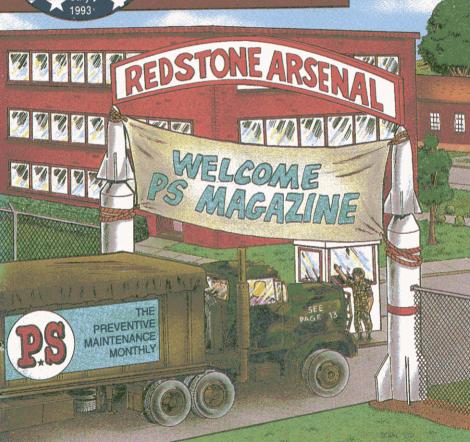


PREVENTIVE

MONTHLY

TB 43-PS-488

Has your buddy read this issue? Pass it along!



Approved for Public Release: Distribution is Unlimited

The Elusive





hat elusive enemy of electronic and electrical equipment—electromagnetic environment effect (E3)—continues to do its dirty work, causing failure and damage. Either one is bad news for your equipment.

Temporary E3 failures that interfere with transmission or reception are caused by electrical arcing – sparks, lightning, radar, communication and broadcast transmissions and power line surges caused by switching, motors or even solar flares and sunspots.

E3 damage is caused by electrostatic discharge (ESD) or improper grounding and such. Sudden surges of power zap your equipment.

Here are some ways to prevent this kind of E3 damage:

- Make sure your repairmen wear wrist straps when working on electronic circuit cards and components.
- Train your operators on proper grounding of their equipment.
- Teach soldiers how to handle and protect circuit cards being sent for repair.
- Practice "tight and bright" maintenance. That means making sure the hardware on things such as electrical panels is not loose.
- Report every E3 failure and all E3 damage. Check out DA Pams 738-750 and 738-751 on how to report E3 failure or damage on SF 368, Quality Deficiency Report (QDR). Then make sure your operators know when and how to fill out the QDR.

Enemy



Tell the commo headshed about every E3 failure and all E3 damage — no matter if caused by natural or man-made sources. They want to know how well your equipment held up.





THE PREVENTIVE MAINTENANCE MONTHLY

TB 43-PS-488. 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 dufies. 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.

		JOL 1 1993		
LOGISTICS MANAGE	EMENT			
AMDF	2-3	Defense Logistics		
Supply Requests	4	Agency	5	, 6
		ULLS		7
FIREPOWER				
M16-Series Rifle	8-9	M2/M3-Series		
M9 Bayonet	10	Bradley	12.	12
AN/TSM-93 LCSS	11	M1-Series Tank	14	
A14) 1 3141-33 E003		Ordnance Hotline	1-7	15
		Ordinanco Frotimo		
GROUND MOBILITY				
Lead-Acid Batteries		M939A2-Series Truck	S	22
	19, 20	Tire Inflation System		23
Wheeled Vehicle		HEMTT		24
Tow Bar	20	M915-Series Trucks		25
M39-, M809-Series		M870 Semitrailer		25
Trucks	21	Round Wrench	27-	26
		Engine Exhaust	21-	-34
AIR MOBILITY				
FOD	35	AH-1S	38-	-39
AH-64A	36-37	SRU-21/P Survival		
		Vest	40-	-41
COMMUNICATIONS SINCGARS 42-		MSE	46-	47
KY-57 COMSEC	-43, 44	PP-1578A Charger	40-	47
Equipment	45	PF-1576A Charger		47
Edoibilieur	40			
TROOP SUPPORT				
PS Relocation	13	NBC Marker Set		55
612B Scraper	48-49	Bolt Thread Repair	56-	-57
M9 ACE	50	Drycleaning Solvent		58
MK1 Bridge Boat	51	Tools		58
O-Rings	51	Oil Analysis Requests	S	59
Cranes, Winches	52-53	Maintenance Exceller	псе	
M157 Smoke Genera	tor 54	Awards		60

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

> MSG Half-Mast The Preventive Maintenance Monthly Bldg. 3325 Redstone Arsenal, AL 35898-7466

By Order of the Secretary of the Army:

GORDON R. SULLIVAN
General United States Army Chief of Staff

Official:

Milton H. Hamilton

Administrative Assistant to the Secretary of the Army 04385

PS. The Preventive Maintenance Monthly (ISSN 0475-2953) is

published monthly by the Department of the Army, Redstone Arsenal, AL 3599-7466. Second Class Postage is paid at the Huntsville, AL post office and at additional maling offices. Postmaster: Send address changes to PS, The Preventive Maintenance Monthly, Redstone Arsenal, AL 3599-7466.

Reading the Godes



It's no secret. You can learn a lot about an item from the Army Master Data File (AMDF). But, if you don't know how to read the codes used on the AMDF, you might as well be reading a pub from a distant planet.

Here's a list of some of those hard-to-crack codes used on the AMDF

ACT	PRIME NSN MCN FSC NUN ADDL	① sos	2 AAC	UI	UNIT PRICE	SLC	CC	3 A R C	4 RC	MAT CAT
2007	2815-00-084-7495	S9C	F	EA	.58	0	U	X	z	J2200

Column Title	Code Tells You				
① SOS (Source of Supply)	Who really supplies you with the item—unless it's filled locally. The SOS is the same as the Routing Identifier Code (RIC) on your supply request.				
② AAC (Acquisition Advice Code)	How and under what restrictions you request an item—regular requisition, fabricate, local purchase, etc.				
③ ARC (Accounting Requirements Code)	The kind of paperwork accountability you need for an item. Nonexpendables (N) go on your property book and hand receipts. Durables (D) normally need hand receipts. Expendables (X) usually need no formal accountability. (See Para 2-5a of AR 710-2 for exceptions to these rules.)				
RC (Recoverability Code)	What disposition action to take when an item is unserviceable. Z items are nonrepairable. When they become unserviceable, the maintenance level that replaces them disposes of them. O means it's a repairable item that unit level either repairs or disposes.				
⑤ MATCAT (Materiel Category Structure Code)	The budget, inventory segment and category information. The first-place code tells you who's the Army's manager for the item.				

I PON'T UNPERSTAND THIS AMDE. IT MUST BE WRITTEN IN KLINGON!

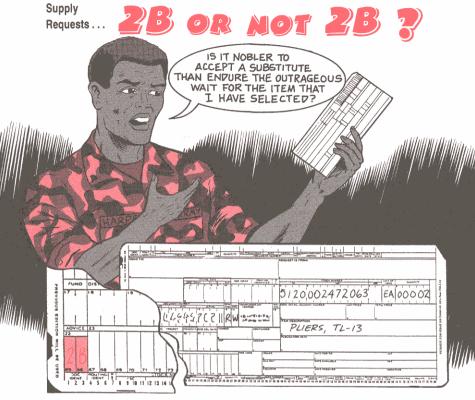


١	6 SC MC	EC	AEC	A R I	⑦ UM	8 MEASMT QTY	NOMENCLATURE	M R	P M I	A O P	R N S	
	9K	G	3	9 00	EA	1	FERRULE ASSEMBLY Q-FAB/ASMBL- 5340-00-352-8292	Z			0.000	

	Column Title	Code Tells You
	SCMC (Supply Category of Materiel Code)	The supply class (number) and subclass (letter).
	(7 UM (Unit of Measure) and (8) MEASMT QTY (Measurement Quantity)	How much and what measure—length, volume, weight or count—you'll get when the unit of issue (UI) is not clear. PK tells you the item comes in a packet. How many are in the packet? Look at these columns to see how many are in the packet. When these columns are blank, the UI is all you need.
	Nomenclature	The name of the item, related NSNs and Line Number (LIN) from SB 700-20, if one's been assigned.
	(iii) Phrase Code	If there's been a change in the NSN's status and any information on substitute, deleted or consolidated items.

For more information on AMDF codes, check out CDA Pam 18-1, Code Reference Guide for the ARMS Monthly AMDF, and I&S History File. If you don't have one, write to:

USAMC Catalog Data Activity ATTN: AMXCA-PP New Cumberland, PA 17070-5010 Or call: DSN 977-6741 COMM (717) 770-6741



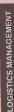
Some folks are confused about when to use advice code 2B in card columns 65-66 of their supply requests. So, they use it on every one!

Using advice code 2B on your supply request tells the supplier not to substitute another item for the preferred NSN. If the preferred NSN is not in stock, the item has to be ordered. That means it will be a long time before the item is sent to you.

Many times there are substitutes in the supply system that meet the requirement. Usually, these substitute items save supply dollars because they are cheaper.

Of course, there are times when you need to use advice code 2B. With pliers, for example, you determine that TL-13 with skinners, NSN 5120-00-247-2063, is the only item that will do the job. The TL-13 without skinners, NSN 5120-00-239-8254, is a substitute for the pliers with skinners. Use 2B on your request to make sure the supply folks know not to substitute the pliers without skinners.

Use advice code 2B only when it's absolutely necessary that you get a specific item from supply.



DLA Price Cuts... S-TEIR-E-TE-C-III SUBBILLY DOLLARS

MAKE YOUR SUPPLY
BUDGET POLLARS GO FURTHER
BY TAKING APVANTAGE OF
THE PEFENSE LOGISTICS
AGENCY PRICE REPUCTION
PROGRAM.

THIS PROGRAM GIVES
A 50 TO 80 PERCENT
PISCOUNT ON
SELECTEP ITEMS.

EACH DEFENSE SUPPLY CENTER OFFERS A LISTING OR FLOPPY PISK THAT POES THESE THINGS...

- \$ Identifies the discount items.
- \$ Cross-references the items to weapons application, next higher assembly or end item application.
- **\$** Gives ordering information.

To get the listing, write or call:

SOS (Source of Supply)	Address	Phone Numbers (DSN/Commercial)
S9C	Defense Construction Supply Center ATTN: OPD Columbus, OH 43216-5000	850-2407 (614) 692-2407
S9E	Defense Electronics Supply Center ATTN: OPR-2 Dayton, OH 45444-5160	986-6872 (513) 296-6872
S9G	Defense General Supply Center ATTN: OPDL Richmond, VA 23297-5000	695-3901 (804) 279-3901
S9I	Defense Industrial Supply Center ATTN: OPR Philadelphia, PA 19111-5096	442-3837 (215) 697-3837

Help in a Hurry



Now that almost all your Class 9 repair parts are managed by the Defense Logistics Agency (DLA), you need to contact them when you want to track down your priority 01-08 requisitions.

EACH PLA SUPPLY CENTER
HAS AN EMERGENCY SUPPLY OPERATION
CENTER (ESOC). YOU CAN CALL THEM
AT THESE PHONE NUMBERS...

ESOC	DSN	Commercial _
General Supply Center (S9G)	695-4865	(804) 279-4865
Electronics Supply Center (S9E)	986-6161	(513) 296-6161
Industrial Supply Center (S9I)	442-4042	(215) 697-4042
Construction Supply Center (S9C)	850-2271/3191	(614) 692-2271/3191
Fuel Supply Center (S9F)	284-8105	(703) 274-8105
Personnel Support Center Medical Materiel (S9M)	444-2111	(215) 737-2111
Personnel Support Center Clothing and Textiles (S9T)	444-3042/3043	(215) 737-3042/3043

Disappearing Lines



Are some of your stocked PLL lines disappearing from your Unit Level Logistics System (ULLS)?

Don't panic, they haven't vanished. The system seems to be changing the stockage code on some stocked lines to "NS" (not stocked). No other change to the records occurs, which makes them easy to spot.

Get these records back in the stocked PLL area by using the "Query By Example" (QBE) process and the following instructions:

1. Use Alt-C to copy the PLL file (AWASX500) to any file name you choose.

- **2.** Use Alt-Q to qualify this report with the following qualifications:
 - a. stockage code = NS
 - **b.** authorized quantity > 0

This will show you any stocked lines in which the system changed the stockage code, since NS lines should not have an authorized quantity.

You can tell if any of these lines were coded as CS by using this qualification:

c. MPLA quantity > 0

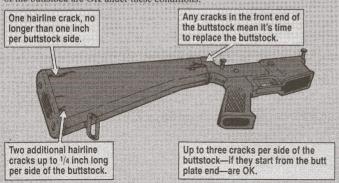
After you've determined which lines were changed by the system, you can use the "Update a PLL Line" process to change them back to the correct stockage code.

BRACK



Dere's the rule on buttstock cracks:

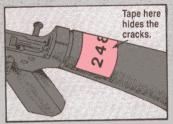
Hairline cracks (no chipped-away material allowed) at the butt plate end of the buttstock are OK under these conditions:



MARKING

You can mark M16s about any way you want, as long as it doesn't scar the rifle, like cutting or stamping does.

Problem is, many armorers use tape for ID numbers and put it either at the front or rear of the buttstock—right where you have to worry most about cracks. The tape hides cracks and bad buttstocks go to the field.



The best way to prevent that is to paint ID numbers on the buttstock.



If you must use tape, put it on the middle of the buttstock where it won't cover critical areas.



Remember when you do replace the buttstock to take it easy with the butt plate screws. Just one turn too many cracks the butt plate or distorts the liner.

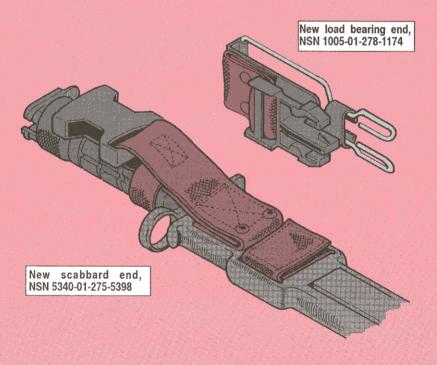




M9 Bayonet...

Better Belt Attachment

If you're tired of rivets popping out of the M9 bayonet's belt attachment and letting the bayonet drop off, order a new, sturdier attaching assembly. You need to order two pieces, though—a load bearing end that attaches to the belt and a scabbard end.



When the parts come in, take off the old scabbard end and put on the new one. Then toss both parts. Never mix the old with the new. The new belt attachment with the old scabbard end lets the bayonet dangle. You'll lose it for sure.

AN/TSM-93 Land Combat Support System . .

The Forgotten Filler



he Land Combat Support System (LCSS) needs lots of cool, clean air or its electronic equipment and computers shut down from overheating. The air conditioners can conk out, too, from the strain of trying to cool an LCSS with dirty filters.

Most LCSS crews do a good job of cleaning or replacing filters — except for the forgotten filter. It's the one inside the wall at the rear by the air conditioner. If it gets clogged, the air conditioners go down.



It needs to be cleaned monthly with the other filters. Wash it out with soap and water and then shake it dry. Repeat the process until all the brown gunk is gone.



PULLING THE PLUG

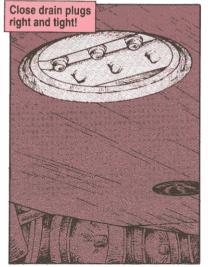


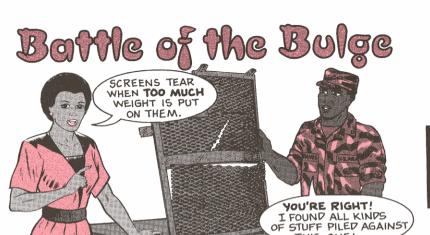
Grewmen, you've got to make sure the hull drain plugs on your Bradley are closed right and tight before operation.

If they're closed wrong, the plugs can work loose. They hang below the hull and are knocked off by rocks and brush. That means you have to replace them before you try to ford or swim.

The secret is to close the plugs right. First, take a look at the two mending plates inside the hull. If they are sheared off or cracked, get your mechanic to replace them.

Wipe each plug free of any mud or sand that might prevent it from seating properly. Make sure the bar is placed firmly between the hull's two mending plates, then tighten the plug in place.



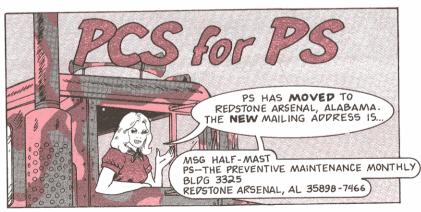


Grewmen, you may not realize it but the turret screens inside your M2/M3-series Bradley have a weight problem.

The extra weight comes from stuff that shouldn't be stored there in the first place. Items like TMs, tools, containers, jackets and work gloves get piled up against the screens.

As the weight builds, the metal screens bulge outward. When the turret is traversed, the screens snag on projections in the turret wall and tear. Then they catch on electrical cables and connections, ripping them loose. Your vehicle is down until the damage can be repaired.

Do yourself and your vehicle a favor: Keep unnecessary items out of the turret.



M1-Series Tanks ...

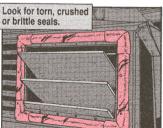


14

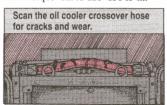
brittle, crack open and leak oil onto the hot exhaust manifold. That's a fire just waiting to happen.

If you spot a bad seal, replace it using

If you spot a bad seal, replace it using NSN 5330-01-099-6331. Replace old seal screws with stainless steel ones, NSN 5306-01-309-7031.



Coat the new screws with antiseize compound, NSN 8030-00-597-5367, so they'll come out much easier next time. Then torque 'em to 120–130 lb-in.



If the hose is damaged, replace it with NSN 4720-01-067-9039.

SEAL IS BAD NEWS

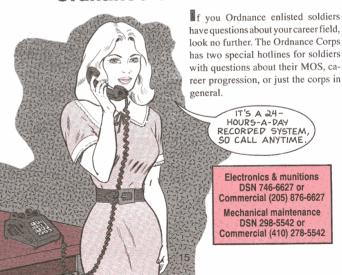
Mount the hose so it doesn't touch the exhaust duct or the top deck. If the hose touches, loosen the mounting bolts and reposition it. Torque the bolts to 46–58 lb-ft.

Start the engine and check the hose clamp O-rings. If they leak, replace 'em with NSN 5330-00-165-1944.



Hold it! Never touch a hot engine. You'll be badly burned if you try it.

Ordnance Soldier Hotline



Water Is Life



16

Just as you need water to survive, so batteries need water to keep producing power. The big difference is, lead-acid batteries need distilled water. Distilled water has no minerals in it that will ruin a battery.

You can get a gallon of distilled water with NSN 6810-00-682-6867, or a 5gallon jug with NSN 6810-00-356-4936.

But tap water will do if you're stuck without distilled water. So will rainwater or melted snow. Just strain it through a few layers of clean cloth. Catch and store water in a clean jug or a covered glass container.

There're several ways to add water to a battery, but two ways work best. One is to use a syringe; the other is to use a Use a syringe to



Say When

Cover the battery plates to within about 3/8-in of the top of the fill holes. Fill any higher and the electrolyte will boil out through the vent caps when the battery charges.

Never use a water hose to add water. It's easy to overfill a battery with a water hose. That flushes out the electrolyte. A battery cannot be fully charged if electrolyte is weak.

Spread Clamps, Save Posts



Dear Editor,

"Tapping" a battery clamp onto a battery post with a hammer or wrench is bad news for the battery. It breaks the battery case or the post.

Here's a trick I've learned that makes installation easy, and saves batteries.

1. Loosen the battery clamp tightening nut.



2. Insert a 1/2-in tube coupling nut into the terminal. Slip the tapered end in first. Nut, NSN 4730-00-054-2572, from the No. 1 Common shop set does the job.



JULY 93

3. Put the terminal and nut into a vise and squeeze the two together.



4. Remove the nut and install the terminal.

> CW2 Jeffrey G. Wernz APO AE 09081



Idler Arm Specs Check



Park on flat ground, and set the parking brake. Block the rear wheels. Raise the front wheels off the ground, and put floor jacks under the frame rails. Turn the front wheels straight ahead.



2 Check the idler arm for damage. If there are breaks or cracks, replace the idler arm. Check mount bolts for looseness.



CHECKING OUT 3 Get a flat piece of scrap steel and clamp it to the front cross member

with a C-clamp or lockable pliers Pull down on the center link to seat the hall and socket of the idler arm. Using the flat surface of the center link as a quide, mark a reference line on the scrap steel.



Put the spring scale,
NSN 6670-00-2544634, from your No. 1
Common shop set,
on the center link and
pull upward until you
get a 25-lb reading.
Hold that reading until
you mark a second
line on the steel.



5 Remove the scrap steel from the cross member. Measure the distance between the two marks. If the distance exceeds one-quarter inch, replace the idler arm.



Some hum fan time delay switches on HMMWVs need to be replaced. These switches don't let the radiator fan kick in at 190° Flike they're supposed to. The engine can't keep cool without circulating air.

Eyeball the module switch on your HMMWV's engine. If the vehicle's serial number is 100000 through 112867 or 68555 through 72541, and you see ADCO stamped on top, replace the switch. Get a better one with NSN 5945-01-193-7175.

Disconnect "ADCO" time delay fan module until you replace it.

GROUND MOBILITY

Until you get a new one, disconnect the ADCO module from the control valve connector. That way, the fan will continue to run, no matter what the temperature is. The HMMWV's engine will stay cool, even in desert heat.

Make Starter Starter Bolt

0

Dear Editor.

In our shop, we frequently pull and replace HMMWV starters. One of our mechanics, PFC Bruce Cole, came up with a homemade tool that makes the job a lot easier.

3/8" rod (NSN 9510-00-189-0652) Thread with 10mm x 1.5mm DIC* Jam nut (NSN 5310-01-250-7679) Pipe spacer (NSN 5365-01-154-4366) Weld * NSN 5136-01-045-8586 in No. 2 Common Shop Set

Run the tool through the pipe spacer and the starter bolt hole and into the engine bell housing. Raise the starter by turning the jam nut. Raise it until you can seat the other mounting bolt.

That will hold the starter in place while you remove the starter tool and install the second bolt.

CW2 Richard S. Haase Ft Drum, NY

FROM THE DESK OF THE Address It looks like your mechanic started something. Good work, Private Cole.

Tension Gauge Warranted



Wheeled Vehicles . . .

Tow Bar Too Long?

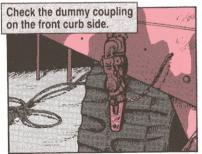
WO 9-4910-593-20-1 to the wheeled vehicle tow bar, NSN 4910-00-433-7094, leaves it too long for short jobs.



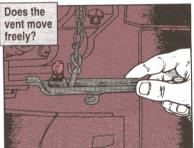
lock in on Brake Problems



Could be nothing more than a plugged vent valve on the service brake dummy coupling near the front bumper. Or maybe a dummy coupling without a breather vent.



Without a breather, back pressure builds up in the air-hydraulic cylinder when you step on the brake treadle. The cylinder won't release air, so brakes lock. First, check out the vent. Blow into it. You should feel air coming through. If it's plugged, take it off and clean it with drycleaning solvent. Let it dry completely before putting it back.



If the dummy coupling does not have a vent, someone switched couplings. Put on a new dummy coupling, NSN 2530-00-740-9445. It should solve the problem.



here are two different wheel assemblies for M939A2-series trucks, even though Fig 157 of TM 9-2320-272-20P shows only one.

M939A2 models serial-numbered 501 and above use wheel, NSN 2530-01-303-0801. It uses ³/4-in nuts and studs (Items 6 and 14) and a different Oring. The wheel works on older M939A2s and A1s, but you have to replace all parts.

. Item	NSN
O-ring	5330-01-314-7598
Stud	5306-01-314-6742
Nut	5310-01-102-2711

The wheel assembly shown in the TM fits early -A2s and all M939A1s. It uses 5/8-in studs and nuts.

Not sure which you have? Measure the face of the stud. A ³/4-in stud will measure ³/4 inch across.



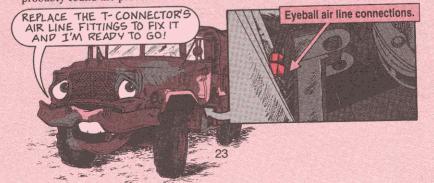


(CTIS) on his 5-tonner, here's a tip that can save you some troubleshooting time:

Some of the air line connectors were over-tightened at the factory. These over-tightened connectors crack and leak air, preventing the CTIS system from working right.

To check for bad connectors, eyeball the air line connectors that mount into the T-connector located on the driver's side frame rail next to the firewall. Look for cracks and feel for loose fittings.

Use an air compressor or other source of compressed air to pressurize the system. Daub a little soapy water around the connector. Look for bubbles and listen for leaking air. If you find a crack, a loose fitting, or hear or see a leak, you've probably found the problem.





rder the hooks you need with NSN 5340-00-456-1011.



Remember, too, that those hooks won't stand the strain of a mechanical rope tightener. They'll snap off.

Need to brush up on your welding before you install them? Get a copy of TM 9-237 (soon to be TC 9-237), Welding Theory and Application, and TC 9-510, Metal Body Repair and Related Operations.

S-Hook Safety

Close the S-hooks on the front end panels of M977 and M985 cargo trucks. That keeps 'em from snagging someone climbing into or out of the box.

Open the V15 Valve

When you open the filter-separator drain valve (V15) on your M978 HEMTIs for PMCS, fuel and contaminants should come out.

If they don't, it means water and other contaminants are backing up in the filter

canisters, and could end up in the vehicles you're fueling.

As soon as your tanker is empty, or when it's convenient to unload the fuel, have your mechanic disassemble and clean the valve. Removal instructions are on Page 23-2 of TM 9-2320-279-20-3.



M915-Series Trucks

Kit Fixes Valves

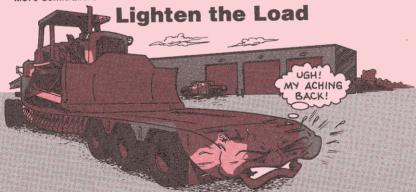
You can now repair the brass parking brake valve and the trailer supply valve instead of replacing them with plastic valves. Order repair kit, NSN 2530-01-126-1505. It brings a diaphragm and four O-rings.

If you get a plastic replacement



valve that doesn't work or fit properly, fire off an SF 368, Quality Deficiency Report, to Tank-Automotive Command, AMSTA-QWH, Warren, MI 48397-5000. Chapter 11 of DAPam 738-750 in the Maintenance Management Update has details on filling out the form.

M870 Semitrailers . . .



he D8K is much too heavy for the M870-so heavy it cracks frames, breaks welds and causes other maintenance problems. To load a dozer, lighten it like so:

- X Clean caked dirt off the vehicle before loading.
- X Remove the blade and rollover protective structure (ROPS) from the tractor and haul it separately.
- X If your tractor has a ripper, remove it, too, and haul it separately. One driving tip that can save trailer damage - drive slowly during cross-country travel.

Round Wrench Works Wonders



ou can get a wrench that acts like a third hand to help you tighten or loosen frozen or stubborn nuts or bolts in hardto-get-to areas.

To use it, choose the right size wrench opening for the nut or bolt. Place that wrench opening over the nut or bolt. The spring clip will automatically lock the wrench in place.

Hold the round wrench and tighten or loosen the bolt until the round wrench wedges itself and stops turning. Now both your hands are free to hold and turn

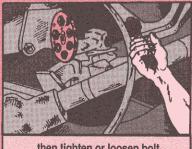
Turn round wrench until it stops turning. . .

the socket wrench to tighten or loosen the bolt.

Two wrenches are available:

- One for SAE nuts or bolts, NSN 5120-01-342-8956, includes sizes 1/2 through 13/16 inches.
- One for metric nuts or bolts. NSN 5120-01-342-8957, includes sizes 13 through 18 mm.

Your authority to order is Appendix A of CTA 50-970.



. . then tighten or loosen bolt

Smoking Out an Exhausting Lesson

MAYBERRY

C'MON, YOU

PARN TRUCK!

WE'VE GOT TO KEEP

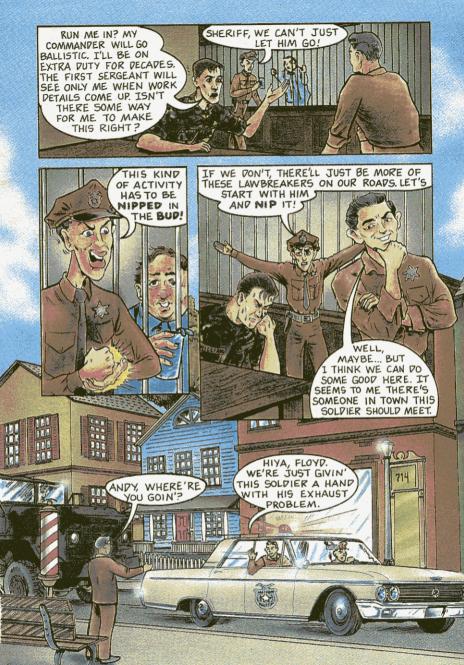
UP WITH THE REST

OF THE CONVOY!

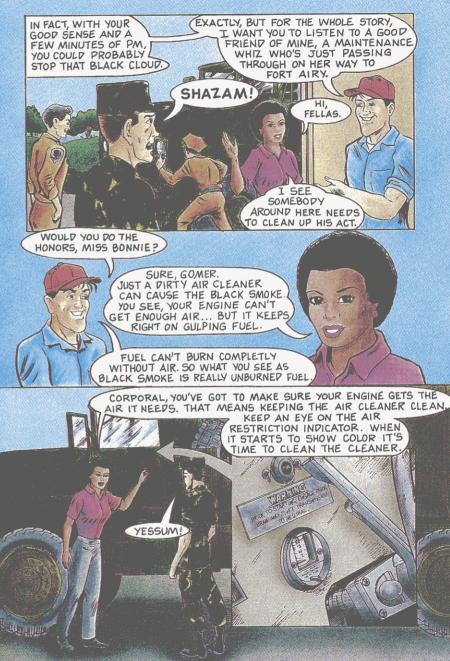


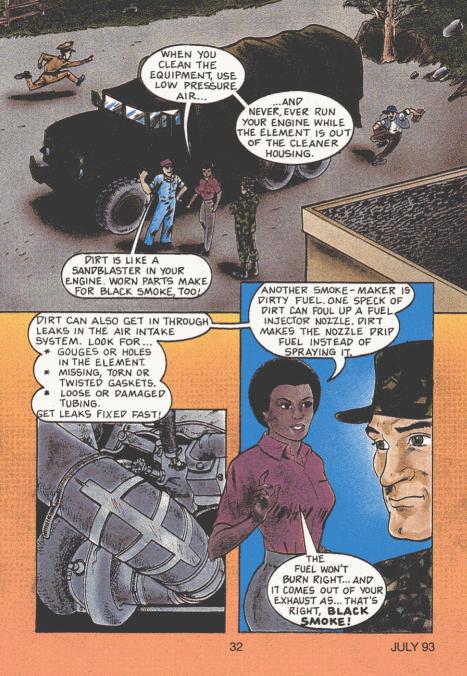




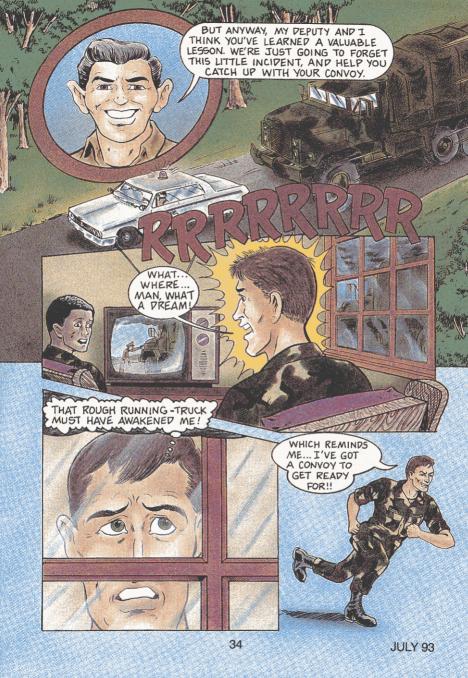


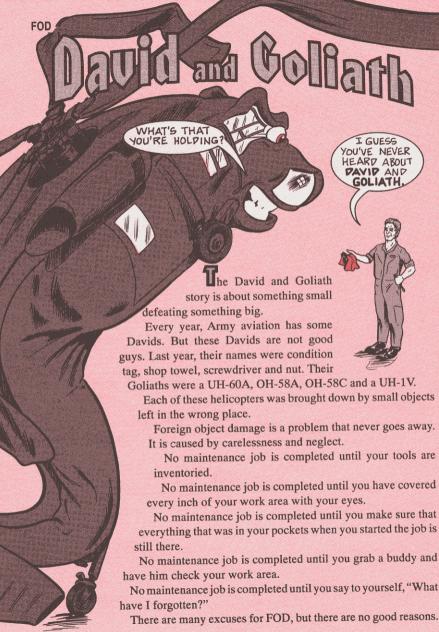












Could it Be the Thermocouple?



If your auxiliary power unit (APU) fails to crank, check the exhaust gas temperature (EGT) thermocouple. You won't find a test for it in your TMs, so many APUs are labeled bad simply because of a failed thermocouple.

Here's how to test it:

First, make sure the battery is disconnected and all electrical power is removed. Then disconnect the wire on the large post of the thermocouple and



Connect both wires to the small post to test.

reconnect it on the small post. Now both wires are on one post. That bypasses the thermocouple.

Reconnect the battery and/or electrical power. If your APU cranks, you've found your problem.

Immediately shut down the APU, disconnect your power source, and solve the problem by replacing the thermocouple like it says on Pages 15-74 through 15-76 of TM 55-1520-238-23.

After testing, make sure you reconnect the wires to the right posts.

Remember, the APU is easy to start, so always disconnect the power source before doing any maintenance.

AH-64A ...

A Light Touch

Lift the turtle-back fuselage fairing with the mounted navigational light too high and you'll rip out the light's wires.

The light, Item 2 of Fig 420 in TM 55-1520-238-23P, is connected by two short wires. If you open the turtle-back wide like you do most fairings, you'll pull the wires out.

So, lift the panel about four inches, reach in and disconnect the wires. This light touch will keep you out of the dark.



र्युके बैले खेलेब्रेके रेड्रास्ट्रें के रेड्रास्ट्रें











Pairing Gongine



WHAT'S WRONG, BUDDY?

Dear Editor.

Installing the grommets and washers on the upper pylon fairings is a tough job to do right. Often the grommet is peened over the washer, which swells the inside diameter of the grommet and makes it unusable.

Sometimes improperly installed grommets fall onto the engine inlet screen, becoming an FOD hazard.

So, I made a special tool that solves the problem of installing grommets, NSN 5325-00-176-0693, and flat washers, NSN 5310-01-071-2082.

I used bolt, NSN 5306-00-877-6434, as raw stock for the tool, but three inches of 5/8-in steel round stock will do.

Here's what the tool is made from . . .

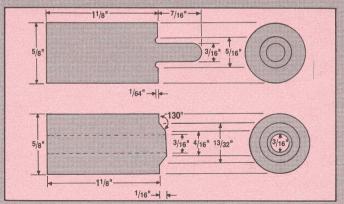


Here's what the tool looks like:





HERE'S HOW YOU MAKE IT ON A METAL LATHE:



JULY 93

Just put the grommet and washer in place and insert one end of the tool into the other end through the fairing. Now use an arbor press or tap until the grommet is properly peened over the washer for a good fit.

HERE'S HOW YOU USE IT:



SFC Andy L. Bolinger OHARNG

FROM THE DESK OF THE Editor

Thanks for sharing another great idea, Andy.

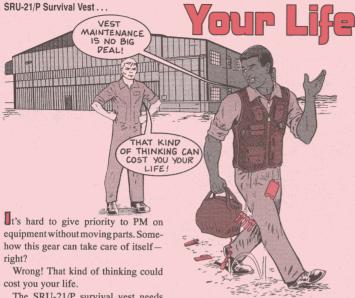
A GROMMET INTO

MY INTAKE!

38

JULY 93

39



The SRU-21/P survival vest needs preventive maintenance and it's a need

that's not being met. You, the user, need to do PM.

Start by inspecting the vest pockets. They wear out—especially the foliage penetration signal kit and radio pockets.

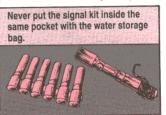




The card, not the pocket, takes the wear and tear.

Depends on PM

Some vests are being issued with the flare pocket removed. If you get a vest like this, put the flares in the left inside pocket with the card and packing sheet.



Rubbing will soon wear a hole in the water bag. It'll leak.

If your vest still has the original pocket, don't remove it. Just reinforce it and use it for the signal kit.

You and your ALSE tech need to work together to keep your vest clean. Take out the components and wash the



vest using a non-detergent soap and warm water.

Bleach will destroy the fabric! Wash by hand or on the gentle cycle of the washing machine. Rinse with JULY 93 clean water and hang to dry out of direct sunlight.

Once your vest looks good, check the components.

Pull out the pocket knife and check the action and the blade condition. Lube or sharpen if it's needed.

- ✓ Make sure the water bag is not torn or ripped.
- ✓ Make sure the compass and signaling mirror are not broken.
- ✓ Make sure the survival kit is intact and the inspection date is current.



0



THERE'S NO SINGLE
PUBLICATION THAT GIVES YOU
INFORMATION ON HOW OTHER
EQUIPMENT WORKS WITH THE
SINGLE CHANNEL GROUND
TO AIR RAPIO SYSTEM—
SINCEGARS!

11	Equipment	Publication
	Wire Line Adapter Interconnect Cable CX-13310/VRC	TB 11-5820-890-10-3
-	Variable Format Message Entry Device AN/GSC-21	TB 11-5820-890-10-4
	Tactical Fire Direction System AN/GSG-10	TB 11-5820-890-10-5
	Lightweight Digital Fax AN/UXC-7	TB 11-5820-890-10-6
1	Secure Net Radio Interface Unit TSEC/KY-90	TB 11 5820-890-10-7
	Battery Computer System AN/GYK-29	TB 11-5820-890-10-8
	Digital Message Device AN/PSG-2A	TB 11-5820-890-10-9
	Digital Message Device AN/PSG-5 (DMD) Fire Support Team	TB 11-5820-890-10-10
	Maneuver Control System MCS	TB 11-5820-890-10-11
	Lightweight TACFIRE AN/PYC-1 (BCT) and AN/PSC-2 (DCT)	TB 11-5820-890-10-12



HERE'S A LIST
MATCHING EQUIPMENT
TO THE TM OR TB THAT HAS
THE OPERATION
PROCEPURES.

Equipment .	Publication
Mortar Ballistic Computer M23	TB 11-5820-890-10-13
Loudspeaker LS-671	TB 11-5820-890-10-14
FIREFINDER AN/TPQ-36	TB 11-5820-890-10-15
Battery Computer System (BCS) to Gun Display Unit (GDU)	TB 11-5820-890-10-16
Radio Set, AN/PSC-3	TB 11-5820-890-10-17
Remote Control Device C-2329/GRA-39	TM 11-5820-890-10-1 and TM 11-5820-890-10-3
Teletype AN/UGC-74	TM 11-5820-890-10-1and TM 11-5820-890-10-3
Intercommunication Set AN/VIC-1(V)	TM 11-5820-890-10-1 and TM 11-5820-890-10-3
Wire Line Adapter HYX-57/TSEC	TM 11-5820-890-10-1 and TM 11-5820-890-10-3

Gable Connection Made Easy

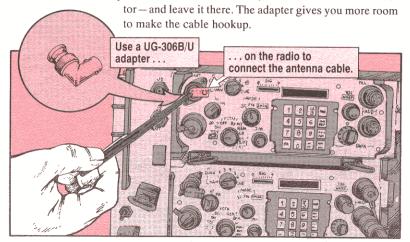


o matter how you try, it's tough to connect the vehicle's antenna cable directly to the SINCGARS radio.

The RT's antenna connector is wedged between the face guard and the RF switch. That leaves little room for hooking up the cable. Chances are, you'll end up with skinned knuckles for your trouble.

Some operators try to install the cable with a pair of pliers. That's a good way to bend or break connectors.

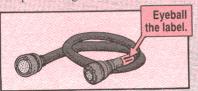
Save wear and tear on your equipment, as well as your knuckles. Install the UG-306B/U connector adapter, NSN 5935-01-032-5404, on the RT's antenna connec-



GRAB THE RIGHT CABLE



The CX-12991/U cable, NSN 5995-01-058-2513, used in the KY-57 communications security equipment manpack configuration is similar to the

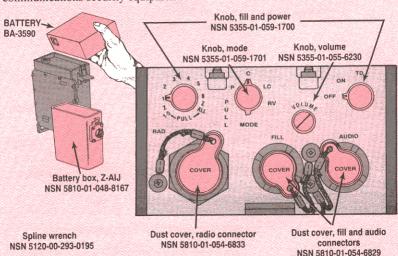


CX-13071/U cable, NSN 5995-01-044-4683, used in the vehicular mount AN/GRC-160/64 configuration.

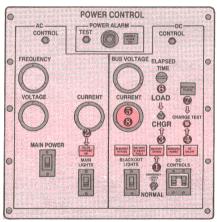
However, if you try to hook up the vehicular CX-13071/U cable to the power connector on the manpack RT, you'll damage the cable and the RT connector. To prevent this damage, check the label on the cable before each mission to make sure you've got the right one.

Piece Parts Guide

Here are some of those hard-to-find replacement part NSNs for your KY-57 communications security equipment:



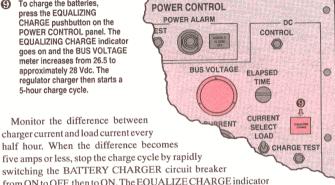




- Check that the BATTERY ON BUS indicator is on.
- Check that the RGI TR CHARGER ON indicator
- Set the CURRENT SELECT switch to CHGR.
- Press and hold the CHARGE TEST pushbutton.
- Record the reading displayed on the DC CURRENT meter. This is the charger current.
- Put the CURRENT SELECT switch to LOAD.
- Press and hold the CHARGE TEST pushbutton.
- Record the reading displayed on the DC CURRENT meter. This is the load current.

Subtract the load current from the charger current. The batteries don't need to be charged if the difference is five amps or less. If the difference is greater than five amps, the batteries require charging.

To charge the batteries, press the EQUALIZING CHARGE pushbutton on the POWER CONTROL panel. The **EQUALIZING CHARGE indicator** goes on and the BUS VOLTAGE meter increases from 26.5 to approximately 28 Vdc. The regulator charger then starts a 5-hour charge cycle.



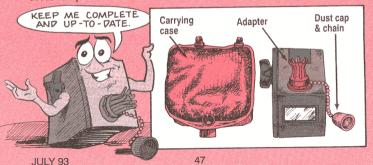
five amps or less, stop the charge cycle by rapidly switching the BATTERY CHARGER circuit breaker from ON to OFF, then to ON. The EQUALIZE CHARGE indicator will then go off.
If the charge cycle isn't stopped when the current difference becomes five amps or less, the batteries will be damaged by overcharging.

PP-1578A ...

Charger Parts

Get the NATO adapter for your PP-1578A radiac detector charger with NSN 6665-01-077-2986. Order the dust cap and chain with NSN 5999-01-362-0069.

The carrying case is ordered from RIC B16 on a DD Form 1348-6 using CAGE 80063 and part number SM-C-146753.



46

JULY 93

THAT OLD G21B SCRAPER HAS BEEN MOVING DIRT LIKE IT'S SUPPOSED TO MOVE IT. ALL IT NEEDS IS A GOOD OPERATOR TO STAY ON TOP OF PMCS AND KEEP IT IN SHAPE n addition to following the PMCS in TM 5-3805-248-14&P-3, ouse these PM tips for a little extra help in keeping your scraper mission-ready.

GAUGE TIRE PRESSURE BEFORE OPERATION. FRONT TIRES GET GO PSI AND REAR TIRES GET -

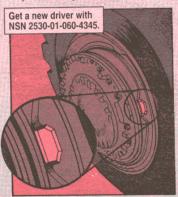




JULY 93

PM Tips for Good Running

When you have a flat front tire, you may lose the driver (that little piece of metal that ties the final drive and the side ring together). Without it, there's no way to deliver power to the tire.



IX Grease the brake camshafts during the 500-hour/3-month service.

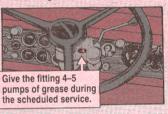


If you neglect 'em, the shafts will bind usually with the brakes on. Then the brakes drag, the linings glaze, and you may have a tire fire!

JULY 93

III Grease the scraper's steering column every 2,000 hours or annually. That fitting is often overlooked.

Four or five squirts from the grease gun will keep the shaft in the steering column from sticking.



II Check the batteries during the weekly PMCS and look for dirt.

Dirt and sand will settle around the batteries in the battery box. When the dirt gets wet and packed in, the batteries are a bear to get out.



it gets packed in.

THESE TIPS WILL KEEP YOU FROM GETTING INTO A TOUGH SCRAPE



Follow These Steps while Driving

Drivers, you can avoid making costly mistakes while driving the M9 ACE. Here's how:

✓ Keep to a reasonable speed on the highway. Check out the road conditions. If it's wet, foggy, or slick, 30 MPH will be too fast. Slow down to whatever speed allows you to maintain complete control.



✓ Off-road conditions require skill in driving, too. If the blade digs into a ridge or other obstruction, your ACE is going to stop real fast.



✓ Sharp turns need to be made at slow speed to prevent overturning.



✓ Avoid jackrabbit starts.



✓ Give yourself plenty of distance to stop. Don't make panic stops.



✓ Use the bowl for dirt, sand or cargo—but never for troops. Same goes for hauling people in the rear of the vehicle. Never do it.



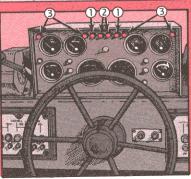
To re-a-l-l-y know your stuff, get familiar with the driving instructions in the -10 TM. And read FM 21-306, Manual for Tracked Combat Vehicle Drivers, too.

t Up Your Instrument Panel

TO GET SIGNAL LAMPS WITH THE RIGHT BEZEL FOR THE BRIDGE BOAT'S INSTRUMENT PANEL, ORDER THEM FROM RIC AIZ ON A DD FORM 1348-6 USING CAGE UO928 AND THESE PNS ...

Item	PN	Color Lamp
1	DX0973/RD/LES	Red
2	DX0973/GN/LES	Green
3	DX0973/AM/LES	Amber





Order O-Rings by PN

IT'S EASY TO DAMAGE OR LOSE THE THREE O-RINGS WHEN YOU REMOVE THE MKI'S RAW WATER INLET STRAINER TO CLEAN IT.



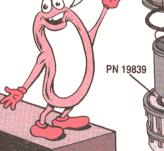
















GUEAN, LUBE



ire rope just hates four-letter words. Words like dust, dirt, grit, rain, snow and rust, for instance. These are the things that shorten rope life.

Cleaning and lubing takes care of those cable-killers.

Before you do your PM thing, be sure you have on a pair of leather gloves. They'll protect your hands from broken wires.



Clean and oil winch cables after every operation. Crane cables usually stay cleaner during operation, so clean them only when they need it.

Unreel the wire rope and stretch it out straight. Use a wire brush, like the one from your No. 1 Common shop set, to get off old lube and dirt. Clean the whole cable. Grit and corrosion get buried among strands.



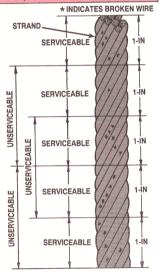
Wire Rope

While cleaning, look for broken wires. kinks and other damage.

Replace the cable if you find kinks. Broken wires can KO the cable, too. TM 5-725, Rigging, and TB 43-0142, Safety Inspection and Testing of Lifting Devices, as well as vehicle TMs, have details.

For instance, some TMs call wire rope NMC if there are more than three broken wires per inch on one strand, or more than six on all strands in one inch. Also, the max number of broken wires can't occur in any two consecutive inches.

If there are six broken wires in one inch, the next inch can have none.



JULY 93

Lube wire rope according to the LO for your gear.

If the LO doesn't cover it. here's what to do:

- 1. Coat the cable with clean OE-HDO 30 engine oil if the cable gets a lot of use.
- 2. Forget used oil. It has acid that weakens wires fast.
- 3. In dry, dusty areas, rope doesn't need oil. In fact, oil just collects more dust and dirt.

If wire rope is not used much, or if conditions are damp or salty, give it extra protection. Use MIL-G-18458 wire rope grease.

Get a 35-lb can with NSN 9150-00-530-6814 MIL-G-18458 WIRE ROPE GREASE

Covering a winch is OK for travel. That keeps the cable from picking up a lot of road dirt. Don't leave the winch covered when your vehicle's parked. That traps moisture that rusts wire rope.

JULY 93

53

M157 Smoke Generator . . .

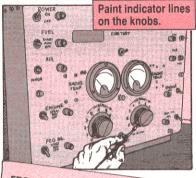
Ring of Truth

Dear Editor.

The ring for the fog oil flow knobs on the M157 control panel often breaks loose or off. That causes setting problems because the setting indicator is on the ring, not the knob. No ring means you guess at the setting.

We rang out ring problems by painting an indicator on the knob itself. Then the ring doesn't matter. You can keep operating until you get the knob replaced.

CW2 Timothy Weaver Ft Bragg, NC



Your suggestion has the ring of truth.

Capping Air Problems

Dear Editor,

The disk that fits in the cap for the M157 air compressor's air filter doesn't survive many trips to the field. It falls out when the cap's removed and is lost. There is no NSN for the disk. Without the disk, unfiltered air goes straight into the compressor pump.

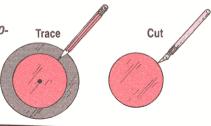
A replacement disk, though, is as close as your nearest flashlight. The flashlight filters make perfect quick-fix replacements after a slight modification. NSN 6230-00-128-2464 gets a black filter.

Using an M157 disk as a model, trace the disk on the filter. Cut out the new disk with a knife. Your M157 is back in business.

When you get back from the field, tell your repairman so he can order a new filter, NSN 4330-01-106-4291.

SGT Christopher Britt Ft Bragg, NC

FROM THE DESK OF THE Editor Solution.
You've lighted the way to the solution.
Thanks.



54

JULY 93

NSNs to the Mark



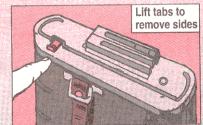
If you run out of ribbon or flags for your NBC marking set, you don't need to order a new set, NSN 9905-12-124-5955. Instead, order replacements:

PART	NSN	
China marker	7510-00-240-1526	GAS
Ribbons, yellow (13)	8315-12-132-2577	Flag
Stakes (48)	9905-12-133-0113	
Flags (20 per NSN)		Ribbon
Bio	9905-12-132-2578	
Atom	9905-12-132-2579	Stake
Gae	9905-12-132-2580	23

NSNs are shown on a decal under the ribbon compartment of your set. For access

to the decal NSNs (and for permanent reference), lift the tabs on the sides of your set. Remove the sides and lift out the ribbon roller. The decal's on the chassis...below the roller.

The marking set container is no longer available, even though it's listed on the decal. The crayons have been replaced by the china marker.



There are thread repair sets available to fix bolts with damaged threads. Get the standard sets with NSN 5136-01-321-6790 and NSN 5136-01-355-3036, the combination set with NSN 5136-01-321-6789 and the metric sets with NSN 5136-01-355-3034 and NSN 5136-01-355-3035.

HERE ARE THE DIFFERENT SIZE SPLIT DIES FOR THE THREAD REPAIR SETS.

THREAD REPAIR SET, NSN 5136-01-321-6789, CONTAINS SEVEN SIZES...



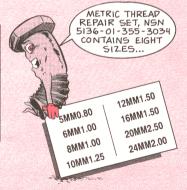
7/16-20NF 1/2-20NF 10MM1.25 12MM1.25 12MM1.50 12MM1.75 14MM1.50 THREAD REPAIR SET, NSN 5136-01-355-3036 CONTAINS FOURTEEN SIZES...



1/4-20NC	9/16 -12NC	7/16 -20NF
5/16-18NC	5/8-11NC	1/2 -20NF
3/8-16NC	1/4-28NF	9/16-18NF
7/16-14NC	5/16-24NF	5/8-18NF
1/2-13NC	3/8-24NF	

THREAD REPAIR SET, NSN 5136-01-321-6790, CONTAINS TWENTY SIZES...

1/4-20NC	3/4-10NC	1/2 -20NF
5/16-18NC	.7/8 -9NC	9/16-18NF
3/8-16NC	1"-8NC	5/8-18NF
⁷ /16-14NC	1/4-28NF	3/4-16NF
1/2-13NC	5/16 -24NF	⁷ /8-14NF
9/16-12NC	3/8-24NF	1"-12NF
5/8-11NC	7/16-20NF	



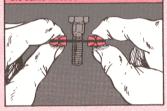
METRIC THREAD REPAIR SET, NSN 5136-01-355-3035 CONTAINS EIGHTEEN SIZES ... 5MM0.80 10MM1.00 / 6MM1.00 12MM1.75 10MM1.25 8MM1.00 14MM1.25 10MM1.50 8MM1.25 14MM1.50 11MM1.50 9MM1.00 16MM2.00 12MM1.25 9MM1.25 | 12MM1.50 | 24MM3.00 TO CORRECTLY USE THESE REPAIR SETS 15 A ...



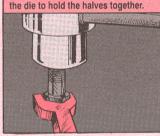
 Pull the die apart and slip it over a damaged stud or bolt. Do not stretch the spring too far.



② Be sure the die is placed behind the damaged threads, then release the spring tension. Twist the die around the bolt by hand a few times to ensure both halves are aligned on the same threads.



3 Slip a standard socket wrench over the die to hold the halves together.



Turn the die counterclockwise until the threads are repaired.



56

JULY 93

JULY 93

57

Drycleaning Solvent...



P-D-680 Just Got Better

If you still must use drycleaning solvent in your maintenance operations, an improved P-D-680, Type III, is now available.

The improved solvent is not as flammable as the older types, which makes it safer to use.

It will, however, take longer to evaporate, so your parts will stay damp longer. Get a 5-gal can of solvent with NSN 6850-01-331-3349 or a 55-gal drum with NSN 6850-01-331-3350.

Tools . . .

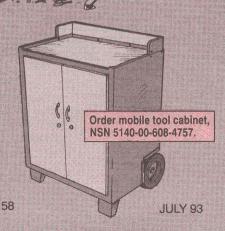
Get Mobile!



Tired of lugging around those heavy tool boxes, mechanics? Frustrated because you've misplaced or lost so many tools?

Mobile tool cabinet, NSN 5140-00-608-4757, is the solution. The two wheels on the back of the cabinet make it easy to tilt back and push to your next job. The cabinet has a lock to keep your tools safe.

Appendix A of CTA 50-970 is your authorization for ordering the cabinet.



acani s accar

The Wheele of the Old 2026

Form 2026, Oil Analysis Request, is like a truck without brakes. You can get the form started and you can send it down the road with your sample. But eventually it's going to CRASH! And that means more work for you cleaning up the wreckage.

What causes most DD Form 2026 wrecks?

Using the wrong numbers!

You must enter the right and complete end-item serial number in the "End Item Ser. No./EIC" block.

You must enter the right and complete serial number of the sampled component in the "Equipment Ser No" block.

You must enter the right bumper number in the "REMARKS" block.

		YSIS REQUEST	KEYPUNCH CODE
TO	OIL ANALYSIS LAB	OIL ANALYSIS LAB	
F MAJOR COMMAND O OPERATING ACTIVITY (Include ZIP Code (APO) DODAAD			4
		5-10	
EQUIP	MENT MODEL/APL		11-14
EQ	UIPMENT SER.	VO.	15-20
END IT	EM MODEL/HULL NO.	10.	10-20
EN	DITEM SER, NO	/EIC	
DATE S	SAMPLE TAKEN (Day, Mo., Yr)	LOCAL TIME SAMPLE	
	/MILES SINCE	TAKEN	21-24
	/MILES SINCE OIL CHANGE		25-29
			30-33
REASON FOR SAMPLE LAB TEST OTHER ROUTINE REQUEST CELL (Specify)		34	
OIL ADDED SINCE LAST SAMPLE (Pts, Qts, Gals) ACTION TAKEN		35-36	
	PANT ITEM		
	ALFUNCTIONED		
HOW FO			
	☐ LAB REQUEST	☐ AIR OR GROUND CREW	
HOW TA	SAMPLY TEMPLIFIA	TURE A TYPE OIL	37-38
	ARKS PUT THE	OPOMETER READ	
	15 NO OF	OMETER BECK!	FTHERE
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Some of you are causing wrecks because you're using the wrong numbers like the manufacturer's part number, the engine stamping number and the warranty code instead of the serial numbers. The right numbers are the brakes that stop your form and park it next to the right sampled equipment and component. With those right numbers, you'll know about the dirt, water, fuel and metal particles that contaminate your oil.

With the wrong numbers ... GRASH, BAM, BOOM!

EXCELLENCE AWARDS



HERE ARE THE
WINNERS AND THE
RUNNERS-UP OF THE
FY93 ARMY AWARD
FOR MAINTENANCE
EXCELLENCE.



LIGHT UNIT WINNERS

Active MTOE, HHC, 6th Ord Bn, Waegwan, Korea TDA, HHC, Foreign Material Intelligence Bn, Aberdeen Proving Ground, MD Reserve MTOE, 388th Medical Unit (Supply Optical and Maintenance), Hays, KS National Guard MTOE, Troop B, 1st Squadron, 158th Cav Edgewood Area, Aberdeen Proving Ground, MD



LIGHT UNIT RUNNERS-UP

Active MTOE, HHD, 36th Signal Bn, Taegu, Korea TDA, U.S. Army Cold Regions Test Center, Ft Greely, AK Reserve MTOE, HHD, 49th Medical Bn, Los Alamitos, CA National Guard MTOE, HHD, 130th Signal Bn, Asheville, NC



INTERMEDIATE UNIT WINNERS

Active MTOE, Co B, 154th Signal Bn, Ft Clayton, Panama TDA, 751st MI Bn, Camp Humphreys, Korea Reserve MTOE, HHC, 3d Bn, 16th Inf, Scarborough, ME National Guard MTOE, 696th Maintenance Co, Kinston, NC



INTERMEDIATE UNIT RUNNERS-UP

Active MTOE, HHD, 503d MP Bn, Ft Bragg, NC TDA, Rotary Wing Maintenance Div, Ft Belvoir, VA Reserve MTOE, 824th QM Co (Air Delivery), Ft. Bragg, NC National Guard MTOE, Co B, 1st Bn, 109th Inf, Carbondale, PA



HEAVY UNIT WINNERS

Active MTOE, 3d US Inf (The Old Guard), Ft Myer, VA TDA, 1st Bn, 29th Inf Regt, Ft Benning, GA Reserve MTOE, Co A, 391st Engr Bn (Combat), Asheville, NC National Guard MTOE, HHC, 2d Bn, 112th Inf, Lewistown, PA



HEAVY RUNNERS-UP

Active MTOE, 188th MP Co, Taegu, Korea TDA, Joint Security Area Bn, UN Security Force, Pan Mun Jom, Korea Reserve MTOE, HHC, 1st Bn, 314th Inf (Mech), Lock Haven, PA National Guard MTOE, 120th Engr Bn, Okmulgee, OK

DA Circular 750-91-1 has the word on the FY 93 competition.



Big Rig Tires, Tubes

You can now take advantage of a one-TACOM time buy of a tube and radial: tire combination set for your M916- and M920-series tractors. Until the sets are gone, you can order them with NSN 2610-01-368-4780 and save a requisition. That NSN is not on the AMDF. Note that on your supply request, and send it to SOS AKZ. If you don't need the set, you can still order the parts separately. The tire is NSN 2610-01-332-1564 and the tube NSN 2610-01-331-3520. These NSNs will be added to TM 9-2320-273-24P.

Trailer Accessory Kit

The tarps and bows that make up accessory kit, NSN 2540-00-133-3492, M101 and vour 3/4-ton trailers must be ordered separately. A set of five bows is NSN 2540-00-278-6560. Tarps are NSN 2540-00-513-9794 (green) and NSN 2540-01-325-7719 (tan). 8-

Humvee Sealant Change

The sealing compound you need to put on a new door seal on the HMMWV's cargo shell is NSN 8030-01-347-0964. That NSN brings a 5-gal pail. Jot down the number until the TM's changed.

Telehone Replaced

Even though the AMDF shows the TA-954 telephone, NSN 5805-01-149-0608, as a reparable item, it's not. It's been replaced by the new TA-1042 telephoneset, NSN 5805-01-318-8421. That means your old TA-954 can be disposed of at unit level. If you have any unserviceable TA-954 telephones, get rid of them.

Don't Ship Laptop

The ULLS End User's Manual tells you to use the "SHIP" command when you quit for the day. However, this does not go for the Zenith SS-286 laptop computers. The hard drive locks up with repeated use of the "SHIP" command. The read-write heads of this laptop are automatically parked when you power down the system.

Distribution: To be distributed in accordance with DA Form 12-34-E, Block 0312, for TB-43-Series

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

Do you know how to take apart a jet engine with a pocket knife?



