Issue 538

PS September

1997

THE PREVENTIVE MAINTENANCE MONTHLY

TB 43-PS-538

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... See Page 27





BE OUR EYES AND
EARS IN THE FIELD. IF YOU
RUN INTO COMMO, SOLDIER
SUPPORT, LOGISTICS
MANAGEMENT, OR ANY
OTHER MAINTENANCE,
SUPPLY OR SAFETY
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SHARE IT WITH THE
REST OF THE ARMY
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TB 43-PS-538, 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.

ISSUE 538 SEPTEMBER 1997

The state of the s		To the second	JAJA CEEPTON A	
WHEELED VEHICLES	2		NBC	40
HMMWV Hardshell Lube Points	2-3	M40, M42	Mask Differences	40-41
HMMWV Starter Bolts, Cooler Fin Shield	3,4	M17 Deco	n Injector Valve	41
6TLFP Battery	5	M12A1 De	con Engine Operation	42
M939-Series Transfer Case	6		Parts and Supplies	43
M939A2 Wheels, Studs	6			
HEMTT PMCS Changes, Fuel Bowl Shield	7	- 11		
Flectrical Connectors	8-11	1 . i g	COMMUNICATIONS	44
Electrical confinctions			OS IIIII ON THE STATE OF THE ST	
Property of the Control of the Contr		MSE Pow	Tax and the	44
COMBAT VEHICLES	12			45
COMBAT VEHICLES	12		er Sources	45
			Readings Record	46-47
M1 Mine Clearing Blade	12-13	AN/UXC-7		
M1 Tank Travel Lock	13		S Hookups	48
M2/M3 Bradley General PM	14-16	SINCGAH	S Control Knobs	48
M113 FOV Idler Arms	17	to the state of the		
M109 Howitzer Air Box	18		1.7.7.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
M992 Ammo Carrier Air Box	18	(M) Keb	AVIATION	49
M109 Howitzer Wiring Shorts	19		· · · · · · · · · · · · · · · · · · ·	
M109A6 Paladin Cooling Fan	19	AH-64A P	vlon Rack Pins	49
M578, M110 Howitzer Relay	20		itot Tube Cover	50-51
M578, M110 Roadwheel Bearings	21	Safety Ca		52-53
Battery Conditioner	22-23		77个个小小小小小人工工工工工工	
MLRS Carbon Removal	23	- North	Made and the state of the state	Solved Land
		A CONTRACTOR	SOLDIER SUPPORT	54
MISSILES	24	-	************************************	
MISSILES	24	Hearing P		54
10000000000000000000000000000000000000		Dessicant		55
IFTE Moisture, Testing	24-25	Utility Cov		56
Avenger Missile Valves	26	Life Prese	rver Warning	56
3. <u>14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15</u>		Work Glov	ves .	57
		A.A.4 A.	[]] ***********************************	
SMALL ARMS	35		· 文学会是是是是是	Property of the
The state of the s			LOGISTICS MANAGEMI	ENT 58
M9 Pistol Magazines	35		Provided Trees	
M249 Machine Gun Extractor	36-37	Price Cha	llenges	58
MK 19 Extracting Tool	38	Packaging		59
M16 Rifle Sight Tool	39	CD-ROM		60
Armorer's Tool Kit	39		Replaces ARMYLOG	60
中華中華海通過			To temperate the second	War a contraction of

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:

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KEEP THAT HARDSHELL WORKING

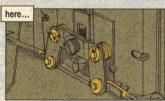
Just a little PM goes a long way in keeping the cargo shell door's hatch in good working order.

Here are two important PM tips: Fevery 3,000 miles or six months, lube all hatch-latching mechanisms with PL-S, just as the lubrication order on Page G-5 of TM 9-2320-280-10 says.

The mechanisms do a lot more than just open and close. They also work like hinges so you can open the hatch from the front or the rear.



Use PL-S here...









Eyeball the gas springs often to make sure the bushings and clamps are in place at each end of the tubes. The bushings keep dirt, bugs and other crud out of the rods. If the bushings are gouged or missing, let your mechanic know.



If the clamps are loose, the bushings are soon going to be missing. Get your mechanic to tighten the clamps.

PS 538

HMMWV...

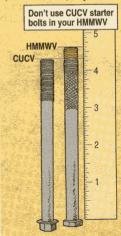
Check Starter Bolt Length

Don't fall victim to "any bolt will do" when installing starters on your HMMWV.

Sure, there are several bolts that come close to what you need—CUCV starter bolts come to mind—but only one will work.

That's NSN 5305-01-285-4923. It's 45/8 inches long—just the right length. Any longer and you can't get it tight. If you have doubts about the bolt you're about to use, get out the ruler and measure.

CUCV starter bolts are only 45/16 inches long. Not enough threads engage to hold the bolt (and the starter) in place.



PS 538

2

SEP 97

Protect Cooler Fins

The most common damage to the HMMWV's cooling system is bent radiator and oil cooler fins.

Fins get bent by feet, tools and other heavy stuff during PMCS and repair work.

Bent fins restrict or stop air flow through the cooler and radiator, leading to engine and transmission overheating.

What's really bad about this damage is that it's all preventable—with a fin protector that you can make yourself.

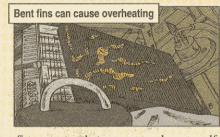
Using a piece of 3/4-in plywood, cut like so:

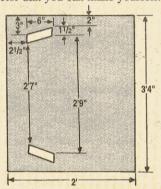
The measurements are approximate, so you may need to adjust a little for your HMMWV.

Round off the edges and paint the board to prevent splinters.

To use the board, remove both eye-hook seals and slip the cover over the two lifting rings. Lay it flat on the oil cooler frame.

After you've finished your PMCS or repair work, take the cover off, replace the eyehook seals and check for bent fins. A finstraightening tool, NSN 5120-00-157-2180, is in the Common shop sets.





Measurements are approximate



New and Different!



he latest lead-acid battery for military vehicles, the 6TLFP, NSN 6140-01-431-1172, looks different and is maintained differently than the batteries it replaces.

The 6TLFP has a green case and a black top. It also comes overpacked with improved electrolyte, which is not available in the supply system.

When used and maintained correctly, the 6TLFP will provide power for three to five years.

So what's the right use and maintenance?

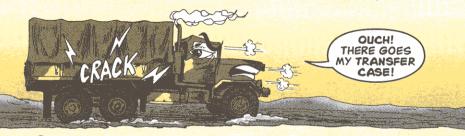
Use them as sets. In other words, it would be best if all your vehicle's batteries were 6TLFPs. Although the 6TLFP can be used with older-style batteries, you'll get better performance if you use them as sets.

If you must mix the new batteries with older ones, compare the specific gravity of the batteries **before** installing them.

If the difference in specific gravity between any batteries is more than 0.020, charge the weaker battery. Otherwise, the stronger battery does all the work and soon is no better than the weaker one.

If your unit does not have a battery charger, get your DS/GS unit to do the charging.

REVERSE SHIFT WARNING



Drivers, when you hop in the cab of your M939/A1/A2 5-ton truck, take a look at the warning plate on the dash.

Operating in reverse while in low range will crack the transfer case. Not only is your truck NMC, but you've tied up some major bucks in repair bills.

So, for your truck's sake, operate in reverse only in high range.



Right Start on -A2 Wheel Parts

There 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 don't use the one shown. Instead, they use wheel, NSN 2530-01-303-0801. It has ³/₄-in nuts and studs (Items 6 and 14) and a different O-ring. The wheel will work on older M939A2s and -A1s, but only if you replace all parts.

Here are the NSNs:

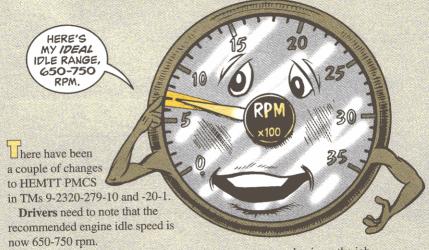
Item	NSN	
O-ring	5330-01-314-7598	
Stud	5306-01-314-6742	
Nut	5310-01-102-2711	



The wheel assembly shown in the TM fits early -A2s (serial numbers up to 500) and all M939A1s. It uses 5/8-in studs and nuts.

Not sure which you have? Measure the face of the stud.

PMGS Ghanges



If your truck doesn't idle in that rpm range, get your mechanic on the job.

Checks and services made at idle, including those for the parking brakes, are affected by this change.

For mechanics, note that you no longer have to do a parking brake test as part of your PMCS. That requirement was removed by Change 2 (Apr 93) to the -20-1.

Fuel Bowl Protection

Many a plastic bowl on the HEMTT's water separator has been cracked or shattered by rocks, feet and other things.

There's a ready-made fuel bowl shield available that'll take care of that problem.

Use NSN 2540-01-383-2252 to get the shield only. If your vehicle has never had the shield, you'll need to drill three holes and buy some hardware.

Drill ³/₈-in holes in the fender and mount the shield with three capscrews, NSN 5305-00-269-3211; three lock washers, NSN 5310-00-637-9541; and three nuts, NSN 5310-00-655-9544.

Shield prevents damage

PS 538 7 SEP 97

OME PRECE AT A TRACE

of you need a kit that has all the waterproof electrical connectors—also known as Packard connectors—used on tactical vehicles, stop searching. There's no such kit available.

You're gonna have to order 'em one piece at a time.

NSN	Description	Quantity
5999-00-057-2929	Adapter, connector, "Y"	
5975-00-660-5962	Cable nipple (Male shell for 16 AWG wire)	100
5935-00-833-8561	Connector (Male shell for 14 AWG wire)	
5935-00-399-6673	Connector (Ribbed male shell for 14 AWG wire)	1
2590-00-695-9076	Shell, headlight circuit (Male shell for 12 AWG wire)	
5935-00-691-5591	Shell, electrical connector (Female shell for 16 AWG wire)	1
5935-00-572-9180	Connector (Female shell for 14 AWG wire)	1
5935-00-695-9077	Shell, electrical connector (Female shell for 12 AWG wire)	1
5999-00-926-3144	Electrical contact for 16 AWG wire	

NSN	Description	Quantity
5999-00-057-2929	Electrical contact for 14 AWG wire 10	1
5999-00-925-6495	Electrical contact for 12 AWG wire 11	1
5940-00-846-5012	Ferrule, electrical connector, (Female solder terminal for 12, 14, and 16 AWG wire)	5
5940-00-399-6676	Terminal assembly (Female crimp terminal for 12, 14, and 16 AWG wire)	1
5310-00-656-0067	Slotted washer for 16 AWG wire 14	100
5310-00-833-8567	Slotted washer for 14 AWG wire	100
5310-00-595-7044	Slotted washer for 12 AWG wire 16	100
5310-00-298-8903	Flat washer (Terminal retainer for 12 AWG only)	100
5970-00-833-8562	Insulator (Plastic insert for 14, 16 AWG wire)	100



PS 538 8 SEP 97 PS

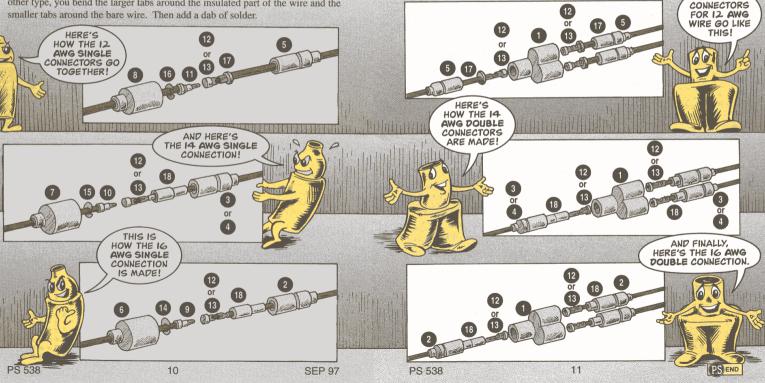
Before you use the connectors, though, here's how to make connecting a little easier:

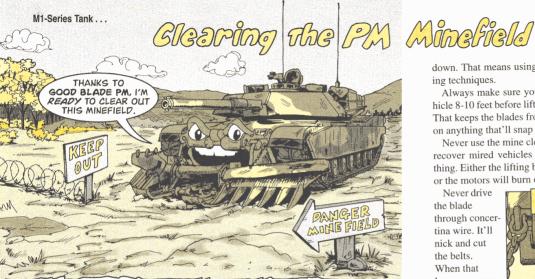
- Match the parts with the wire (12, 14, or 16 AWG wire).
- ★ Use washer, NSN 5310-00-298-8903, instead of plastic sleeve, NSN 5970-00-833-8562, when working with 12 AWG wire.
- * Use the two types of male shells (ribbed and plain) to identify the positive (+) and negative (-) hookups on polarized units. For instance, always use ribbed for positive and plain for negative—or vice-versa.
- * Never mash down on the rubber shells to get a good connection. You'll just mangle the female connector and make it tougher to get a connection.
- ★ Distinguish between the two types of female connectors—crimp-on and solder. The connector with a solid sleeve gets crimped on the wire. With the other type, you bend the larger tabs around the insulated part of the wire and the smaller tabs around the bare wire. Then add a dah of solder

You can use either type of connector with 14 or 16 AWG wire. But for 12 AWG, the crimped version is better. If you use the solder type, the larger tabs can't be used to latch onto the insulation because the small washer must be used. The washer goes between the insulation and the terminal. Peel off the insulation, slip on the washer and add the terminal. Bend over the tabs and solder on the terminal.

Lise a dab of silicone compound, NSN 6850-00-880-7616, to make hookups easier. Put the compound on the male shell before you mate it to the female shell. It'll also help when you disconnect.

Don't bend connections up and down to separate them. If you can't pull on the wires to separate the connection, try inserting something between the shells—carefully—and pry gently until you can pull the connectors apart.



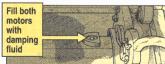


operators, it takes regular doses of PM to keep your M1-series tank's mine clearing blade on the job. Follow the good words in TM 9-2590-509-10, then use these PM tips:

Motors

If the blades come crashing down when the electrical or manual blade release is used, too little oil or oil contamination could be the culprit.

So, use the electrical switch to raise and lower the blades once more. If they come crashing down again, have your



PS 538

mechanic drain the old oil from each motor and replace it with four ounces of damping fluid, NSN 9150-00-607-0897.

Water Damage

Heavy rain or high pressure water seeps into the relay box if any of the cover assembly bolts are missing or if the cover seal is missing or damaged. Water buildup causes electrical shorts.

Your mechanic can replace a missing or damaged seal with NSN 5330-01-277-5647. New bolts come with NSN 5305-00-269-3235, NSN 5310-00-584-5272 gets new lock washers.

Lifting Belts

Take care of the mine clearing blade's lifting belts and they won't let you 12

down. That means using the right lifting techniques.

Always make sure you back the vehicle 8-10 feet before lifting the blades. That keeps the blades from hanging up on anything that'll snap the belts.

Never use the mine clearing blade to recover mired vehicles or to lift anything. Either the lifting belts will break or the motors will burn out.

Never drive the blade through concertina wire. It'll nick and cut the belts. When that happens, your mechanic has to replace them with new belts. NSN 4020-01-289-8249.



Depth Adjustment

When you're training with the mine clearing blade, keep the adjusting plate set at its shallowest depth-eight inches That saves wear and tear on your tank's engine and the blade's teeth.

More Help

If you're having trouble mounting the mine clearing blade, or just need some refresher training, contact your local TASC video library and order TVT 5-21, Blade, Mine Clearing, M1 Tank Mounted. The PIN is 707727.

Thanks for the Support

Dear Editor.

The M1-series tank's travel lock, NSN 3040-01-074-8999, is also a great safety tool. We use it to prevent accidental movement whenever someone needs to work on the breech.

Unfortunately, when the main gun is raised so that you can work on top of the breech, the travel lock isn't long enough to

use.

We've fixed this safety problem by making a new support. Our metal shop built an exact duplicate of the travel lock except that it measures

Homemade support keeps breech from moving



221/8 inches long.

The new support is placed between the breech and the turret ceiling and held in place with the travel lock pins.

CW3 Gene Wolske MATES. TXARNG North Ft Hood, TX

FROM THE DESK OF THE Edito

Now that's an idea we can support!

SEP 97 SFP 97 13 PS 538



the info in the -10 TMs.

Of course, that doesn't have to be your only source. Here's a neatly packaged bundle of PM tips to keep your

Bradley in good shape:

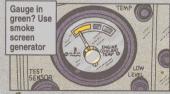
Commander's secondary sight.

Before covering your Bradley with a tarp, remember to fold down the plastic

sight on the commander's secondary sight. If you forget, the sight will snap off.

Fold sight before covering with tarp

Smoke screen generator. Make sure the engine is at normal operating temperature when using the smoke screen generator. Otherwise, unburned fuel pools up in the exhaust and leaks into the bilge. That's a fire hazard.



Transmission low oil pressure switch. The mounting tee for this switch can't take much pressure without breaking or cracking. That includes a care-

lessly placed foot. Cracks will start an oil leak that could result in a fire.



Batteries. Out of sight, out of mind can leave you out of action when it comes to the turnet emergency batteries. Discharged batteries mean no backup power.

Check the batteries for loose clamps and low electrolyte. Also, look for corrosion on terminals, and water and dirt on PS 538

top of the batteries and in the battery tray. Corrosion, dirt and water on top can short across connections and discharge the batteries.

Engine stop handle. After you pull out the engine stop handle at shutdown, leave it out! If you push the handle back in, fuel can leak into the engine oil. Don't push the handle in until you're ready to start the vehicle again.





✓ Fuel cap. Bradleys with the oldstyle fuel cap tend to collect a lot of dirt and sand around the fuel filler neck. A torn fuel seal lets this gunk trickle into the fuel system.

Stop those problems by ordering the new-style fuel cap, NSN 5340-01-418-8526. Until the new cap arrives, fix the old, leaky one by cutting out a piece of rubber inner tube a little larger than the fuel cover. Clean out any dirt from around the filler neck, then place the homemade seal over the fuel cap and latch down the cover.



✓ Sprockets. Reverse final drive sprockets when they're worn down to the wear circles. You'll get more wear out of the sprockets and keep vehicles on the road.

If the sprocket wears too far past the circle, it hooks the track shoes and throws the track. When both sides of the sprocket are worn to the circle, replace the sprocket.

Hull drain plugs. Make sure the hull drain plugs are closed right and tight before operation. Do it wrong and the plugs hang loose. Then they get knocked off by rocks and brush. You'll have to replace them before you can ford your Bradley.

PS 538

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



Lubing. If it moves, lube it. That means hatch hinges, seat slides, cargo and driver hatch switches, ballistic shield door hinges, and the commander's hatch pop-up release pins. A squirt of CLP quarterly will keep those moving parts moving smoothly.





Frewmen, what you can't see can hurt you, especially when it comes to lubing the idler wheel support arms on your M113-series carrier.

Support arms sit behind the idler wheels and are often covered with mud, so the grease fittings are easy to miss.

Fittings are behind idler wheels just above track adjuster

If you forget too often, though, the bearings dry out and the idler arm freezes. When the arm won't move, you can't adjust track tension. Your vehicle is NMC.

Lube both idler arms with GAA every 150 hours, 1,500 miles or semiannually, whichever comes first. Clean the fittings with dry cleaning solvent first to keep dirt from mixing with the grease.

Put a dab of lube on the grease fittings immediately after washing or fording the vehicle, too. That'll keep the valves from rusting. M109-Series SP Howitzers, M992-Series Ammo Carriers . . .

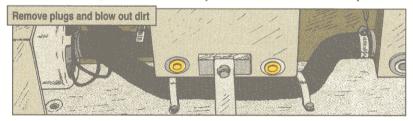
A Little Air Box PM



Grewmen, if you've been tooling around the countryside in your M109-series howitzer or M992-series ammo carrier, you can almost bet the air cleaner boxes need cleaning.

That's because dust and grit collect at the bottom of the boxes even under normal conditions. Air induction system exhaust fans just can't remove all the dust and grit.

Next time you pull a service, open the two plugs at the base of each airbox. Blow out all the dirt and sand with low-pressure air—no more than 30 psi should



do it. If the dirt and sand have hardened—which is what happens when water gets mixed in—you'll probably have to break up the mess with a knife or screwdriver.

Never try to clean the boxes by hosing them out with water. That leads to rust, which causes even more clogging problems.



Shorts in the turret power harness at the rear of your M109A2-A5 howitzer usually can be traced directly to the

commander's seat.

When the seat is folded down, the harness gets caught between the seat mount and the turret wall. When the insulation gets cut, your howitzer ends up with a short—and no power to the turret.

Make sure the harness is out of the

way so it won't get caught. If it's not, let your mechanic know so he can reroute the harness to clear the seat mount.



M109A6 Paladin ...

Break That Handhold Habit

Using the hydraulic compartment cooling fan as a handhold for climbing up on the M109A6 Paladin is a bad habit. Nip that bad habit in the bud—before it

nips you.

The fan is temperature-controlled. In other words, you never know when it might come on. If your fingers are curled inside at the wrong time—OUCH!

So, unless you want to be known as "Stubby", find another way to climb the Paladin—like up the tracks at the front corners of the howitzer.

Cooling fan is a dangerous handhold

PS 538 19 SEP 97

Run Down Bad Relays

Dear Editor,

The most common cause of starter problems on our M578 recovery vehicles and M110A2 howitzers is a bad starter relay. Problem is, "they" say you have to put on a new starter relay to find out for sure.

No more. We've discovered a quick and easy way to check for bad relays when our vehicles won't start. Here's how:



- 1. Disconnect the electrical cable from the starter relay.
- 2. Connect the A and C receptacles with a piece of wire.
- 3. Turn the MASTER switch to ON and push the START switch. Just

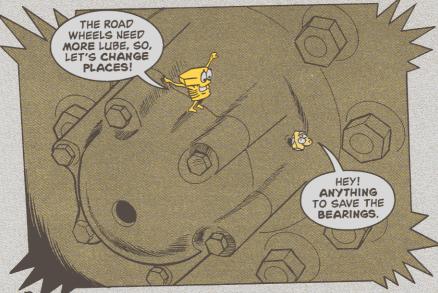


make sure no one's touching the wire.

If the engine starts, you know it's a bad relay. Replace it with NSN 5945-00-636-8778.



A Switch in Time Saves...Bearings?



Koadwheel bearings burn out because they don't get enough lube during the pumping cycle. That's because the grease always takes the easy way out.

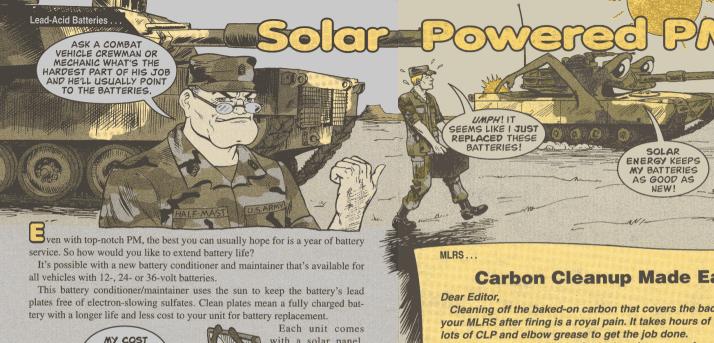
When the grease shows up at the relief valve, you naturally stop pumping. But the outside bearing still doesn't have enough lube on it, so it runs hot and eventually burns up.

You can beat burnout by pulling this quick switch:

- 1. Remove the pipe plug in the roadwheel hubcap.
- 2. Remove the relief valve and adapter bushing and reinstall them in the hubcap.
- 3. Put the pipe plug in the hole where the relief valve was and pump in more lube. When the lube comes out of the relief valve in the hubcap, you can be sure there's enough grease for both bearings.
- **4.** Finally, move the pipe plug and relief valve back to their original places. That will protect the fitting from damage.



PS 538 21 SEP 97



DEPENDS ON HOW MANY YOU ORDER!

Units	NSN 6130-01-	Price (ea)
1-99	392-8347	\$131.64
100-999	417-9073	\$105.63
1,000-4,999	417-9079	\$94.96
5,000+	417-9291	\$89.63

with a solar panel, circuit box and 25 feet of wire.

You'll need three units for each M1series tank or M2/M3series Bradley. The HMMWV takes only

A frame, NSN 6130-01-396-4074, is available for the M1-series

tank. The frame holds all three solar panels and helps protect them.

For installation instructions or more information, call Ft Hood's AMC-FAST office at DSN 737-7145 or (817) 287-7145. Or call TACOM at DSN 786-8751 or (810) 574-8751.

Carbon Cleanup Made Easy

Cleaning off the baked-on carbon that covers the back end of your MLRS after firing is a royal pain. It takes hours of work and

We make our job a lot easier by keeping a can of non-stick cooking spray handy. We give all problem spots a good spray before firing. That keeps the carbon from sticking and makes cleanup a breeze.

23

READYTO

HELP

SSG Christopher Lenning 2/4th FA Ft Sill, OK

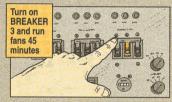
FROM THE DESK OF THE Editor

You really cleaned up a sticky situation with that idea! Get a 22-oz can of non-stick cooking spray with NSN 8945-01-419-5579 or NSN 8945-01-419-4914. Both are local purchase items.

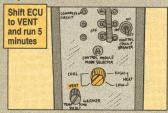
The integrated family of test equipment (IFTE) has very sophisticated components to do very sophisticated missile tests. Moisture and haste can make those components flunk the accuracy test. Help the IFTE to pass like this:

Dry Up Moisture

If it's humid or rainy, keep moisture out of the IFTE van where it can cause electrical shorts and corrosion. At startup, turn on POWER CIRCUIT BREAKER 3, shift the ECU to VENT, and let the ECU run for 45 minutes to blow out any moisture.



At shutdown, shift the ECU to VENT and let it run five minutes to get rid of any moisture that's collected.



Any time you're operating where there's no NBC threat, open the door

24

PS 538

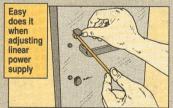
Passing the Accuracy Test



vent. Moisture blows out instead of building up inside the van.

No Rush

Adjust the linear power supply s-l-o-w-l-y. Otherwise, the rapid voltage fluctuations can cause the IFTE to crowbar.



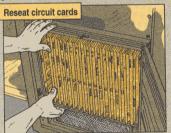
When using a weapon system test program set (TPS), run all the survey tests before actually testing equipment. And before running another TPS, do those survey tests again. That's the only way to ensure valid results. Otherwise,

SEP 97

a good component could flunk when the IFTE is really the problem.

Troubleshooting

If the IFTE fails to self-test after it's been moved or sat idle for weeks, reseat the failed circuit cards. Movement can jar the cards loose.



If that doesn't cure the problem, try reseating the interconnection device (ICD). If it's loose, you have a poor connection with the IFTE receiver. This

often happens because soldiers absentmindedly lean on the ICD.



If the IFTE reboots while you're doing a test, check the voltage and frequency on the generator. Voltage spikes or too much or too little power can cause booting problems.



PS 538 25 SEP 97

A Valve of a Different Color

Dear Half-Mast,

The Avenger's standard vehicle-mounted launcher has a solenoid valve with a blue cable, NSN 4810-01-239-0972, and a solenoid valve with a yellow cable, NSN 4810-01-239-0973. In a pinch, is it OK to substitute one valve for the other?

(D)

SGT S.S.

Dear Sergeant S.S.,

There is an ample supply of **both** valves in the supply system. But in a pinch, the solenoid valves



can be used interchangeably. Just make sure the valve's routed to the correct connector on the launcher electronics assembly.

Readers Quiz

HERE ARE SOME QUESTIONS
ABOUT THE EQUIPMENT FEATURED
IN THIS ISSUE OF PS. SEE IF
YOU KNOW THE ANSWERS.

WHEELED VEHICLES—What's new about the 6TLFP battery? (Page 5)

COMBAT VEHICLES—How can you prevent damage to the relay box on an M1 tank's mine clearing blade? (Pages 12–13)

MISSILES—How can you prevent moisture damage to the integrated family of test equipment (IFTE) when you're operating in humid or rainy weather? (Pages 24–25)

SMALL ARMS—Where can you get a lock for the MK 19 machine gun rack? (Page 38)

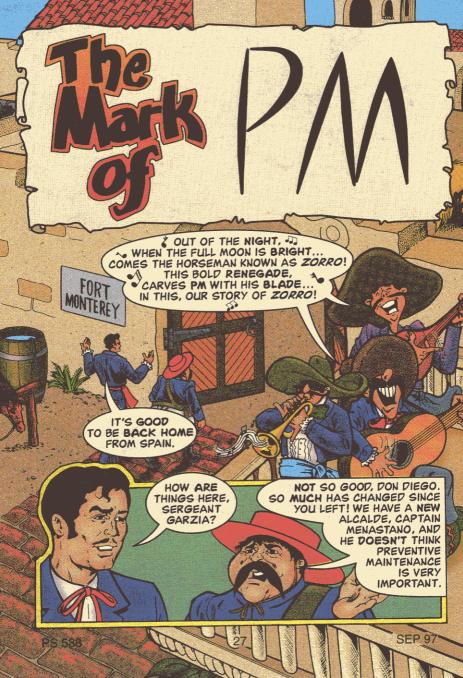
NBC—Where do you look for instructions on the M41 protection assessment test system (PATS)? (Page 43)

COMMO—What is the usual result of a careless SINCGARS cable hookup? (Page 48)

AVIATION—Why is safety cable a better choice than lockwire? (Pages 52–53)

SOLDIER SUPPORT—What are your choices when it comes to hearing protection? (Page 54)

LOGISTICS MANAGEMENT—Who should you tell if you find an overpriced item on the AMDF? (Page 58)



























LATER THAT NIGHT ...

MY MISSION IS
ALMOST COMPLETED.
I'VE CARVED "PM" ON
ALL THE AREAS OF
WEAKNESS I SHOWED
SERGEANT GARZIA
EARLIER.













PS 538 31 SEP 97







M9 Pistol ...

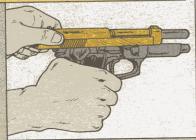
Dirty Magazines



magazine for the M9 pistol that won't feed reliably is a magazine that needs to be replaced.

One simple test weeds out bad magazines. Load the magazine with dummy rounds and manually cycle the pistol

Round failed to feed? Replace magazine



until all rounds are ejected. If even one round won't feed, pitch the magazine.

Keeping magazines clean helps their springs last longer. When you return from firing, take each magazine apart

Cleaning extends spring life



and wipe the insides and spring with a clean cloth.

Do not store the magazines loaded. The springs will lose their spring.

PS 538 35 SEP 97

Subtract Extractor Problems



rmorers, you don't need your support to take care of worn-out extractors. Order the extractor parts kit, NSN 1005-01-383-0168. Use the info on Pages 2-22.1 through 2-25 in TM 9-1005-201-23&P to do the job. The kit's not expensive, so order extras. You'll need them if you fire often.

Any time the extractor pin is sticking out, replace the extractor, extractor pin, extractor spring, and guide pin.



Replace all these parts whenever you disassemble the bolt to prevent future extractor problems.

In the Field

Most extractor problems in the field can be handled easily. Here's how:

Look for a stuck cartridge case in the chamber. Remove a stuck case with a cleaning rod like it says in TM 9-1005-201-10



Wipe off the CLP when the carbon's gone or you'll get more carbon fast.

Check the chamber, bolt, and slide

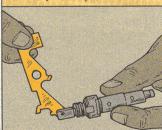
assembly for carbon buildup. Clean

them if necessary with your cham-

ber brush and CLP.

PS 538

Look for carbon in the gas cylinder and gas regulator. Clean out carbon with your scraper.



If that doesn't solve the problem, the extractor probably needs replacing.

PS 538 36 **SEP 97** 37 **SEP 97**

Extracting and Locking

Dear Half-Mast,

Our TM 9-1010-230-10 says not to use the MK19's extracting tool on a stuck M383 HE round. But is it safe to use the tool on M430 rounds, since they're also high explosive?

Also, how do we get the special lock you need for the MK 19 storage rack?

the sh

SFC J.W.

de

11 1/4

Dear Sergeant J.W.,

It's safe to use the extracting tool on all MK 19 rounds. TM 9-1010-230-10 (Nov 96) deleted the HE round warning. There is no NSN for the lock. You must order it directly from:

American Lock Co ATTN: Dave Anderson 3400 W. Exchange Rd Crete, IL 60417

Or call (800) 323-4568.

Ask for the 5202-series KD (keyed difference) lock with a 3-in shackle and key retention.

Half-Mast

11

Whi

11,

BUT ISN'T
THE EXTRACTING
TOOL DANGEROUS TO
USE ON A STUCK
M383 HE ROUND?

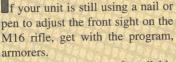
NO, NOW IT'S SAFE TO USE THE TOOL ON ALL MK 19 ROUNDS.

38

SEP 97

Sight Right with Sight Tool

YOU WON'T NEED THOSE GUYS ANYMORE.



There has been a tool available for some time that fits the sight like a glove fits your hand. The tool makes adjusting the sight a snap, and it doesn't hollow out the sight notches like a nail does.

Best of all, you don't have to order it and wait six months for it to come. Support fabricates it for you.

Plans for the M16A1 tool are on Page E-1 in TM 9-1005-249-23&P. For the M16A2 tool, see Page E-2 in TM 9-1005-319-23&P.

Keep the tools in the arms room and wait until you get to the field before you hand them out. That will help the tools stick around longer.



Armorer's Tool Kit



IF YOU NEED HELP
INVENTORYING THE SMALL
ARMS REPAIRMAN'S TOOL KIT,
CHECK OUT PAGES 27-34 OF
PS 466, SEPTEMBER 91.

SC 5180-95-CL-A07, which covers the kit, has had only two changes since then. Hand file set, NSN 5110-00-204-2685, and drive pin punch set, NSN 5120-00-883-3003, can now be ordered only as sets, not by individual components. Need a copy of the article? Contact Half-Mast.

A Few Things

See the -20&P TMs for the masks and TC 3-41 for the protective assessment test system (PATS) for sizing info. The M40/M42 air deflector comes in two sizes, M-L and S. The size is

marked on the bottom of the deflector. Pay attention to size.

A large deflector in a small mask pokes the wearer in the face. A small deflector in a large mask lets the mask fog up.

Pay attention to deflector size

HERE ARE A FEW
THINGS THAT NBC NCOs
MUST REMEMBER ABOUT M40
AND M42 MASKS...

Except for the waterproof bag and cleaning supplies, nothing from the old M17 or M24/M25A1 masks can be used on the M40 or M42 masks. So there's no point in saving any other stuff from your old masks. Turn it in.

Just because a soldier wore a medium M17 mask does not mean he or she will wear a medium M40. Check and make sure.

The M40 and M42 masks feel differently than the old masks. Air circulates inside around the lenses in the new masks to keep them from fogging. Make sure everyone in your unit knows this so they don't think something's wrong when they feel cool air around their foreheads.

Optical Inserts

Masks cannot be worn with regular glasses or contacts. Soldiers must get optical inserts. They're free from your base optician.

to Remember

Some inserts may need to be modified slightly. Use



ordinary

pliers to bend the rubber-coated ends of the retainer outward.

When you install the inserts, the retainer ends should touch the mask eyewall.

Harness Clips

Keep an eye on the harness clips. With use, paint chips off the clips. No

paint leads to corrosion. Touch up chipped clips with black lacquer, NSN 8010-00-085-0559.



Hearing Help

If soldiers in your unit have trouble hearing each other while wearing masks, order amplifiers, NSN 5895-01-381-9012. Made specially for the M40 mask, the amplifiers can project sound quite a distance.

M17-Series Decon . . .

Halfway Is Better

Dear Editor,

Page 2-6 in TM 3-4230-228-10 says to push the handle of the injector control valve of the M17 decon all the way to the left to shut off the valve.

That lets hot water pour out of the opening in the valve. Someone could be burned. But if you pull up the handle halfway so it sticks straight up, the valve is completely shut off.

SSG Abraham Lincoln Kyle KSARNG Hiawatha, KS



FROM THE DESK OF THE Editor

You have a handle on that safety problem. The next change to the TM will show the yalve handle in the OFF position you suggest.

PS 538

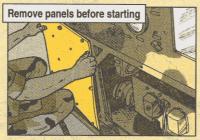
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SEP 97



The M12A1 decon's 20-hp engine generates lots of heat when it's running. To keep it cool, just remember "panels off, shroud on."

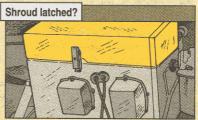
If the side panels are left on during operation, heat has nowhere to go. It builds until the engine overheats, which can lead to warped pistons and a major engine rebuild. Before you start the M12, take off all five panels.



But keep the engine shroud in place. It directs the cool air around the engine for the best heat relief.

Make sure the shroud is latched in place before start-up.

The shroud won't do much good, though, if it doesn't fit. And it won't fit unless it's been modified. The shroud wasn't designed for the M12. Support can make it fit with the info on Page 2-77 in TM 3-4230-209-30&P (Sep 86).



This and That About PATS

HERE ARE A FEW
THINGS NBC NCOS NEED TO
KNOW TO KEEP THEIR NEW M41
PATS TESTING TRUE...

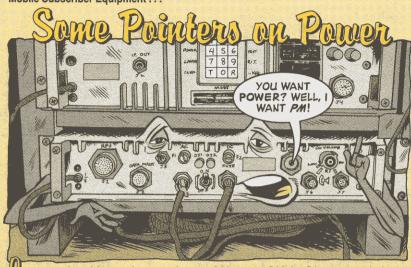
TC 3-41 explains how PATS works and how to use it. If the training circular didn't come with your PATS, have your pubs clerk order it. Use these NSNs to order parts and supplies:

	68,60
Item	NSN 🥌
Battery, BA-5874/U	6135-01-090-5364
Drink valve retaining lever	5340-01-378-2883
Plastic case	6625-01-377-5875
Carrying case	6625-01-377-5874
HEPA filters	4240-01-340-3715
Storage cap	5340-01-378-2291
Alcohol wick kit	9390-01-379-6385
115/230-volt adapter	6130-01-379-7122
Alcohol capsule	4240-01-382-3584
Twin tube assembly	4240-01-382-3652
Drink tube adapter	4240-01-382-3558
M17 drink tube extension	4240-01-382-3635
Alcohol cartridge	4240-01-382-3519
M40/M42 drink tube extension	4240-01-382-3614
Line cord/AC adapter	6150-01-111-1717
Alcohol	6810-01-382-2904



PATS needs **calibrating** every 18 months or 500 hours of use. Use the RE-PORT OF EXCESS procedure in Chap 7 of AR 725-50 to turn in the PATS for calibration. Be sure to turn in all the accessories, except the battery, alcohol, and video tape. The accessories will be needed for calibration.

Mobile Subscriber Equipment . . .



perators, has this ever happened to you? You turn ON the S1 power switch on

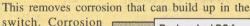
your AN/GRC-226 radio's AM-7345 amplifier, but the DS2 power lamp doesn't light up. That tells you the amp is not getting DC power.

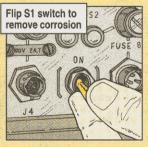
Before you call in unit maintenance, try these things to get your radio back on line:

1. Unhook the AC and DC power cables from the amp before you do anything else. You don't want to take the chance of getting shocked or burned.

2. Flip the S1 switch ON and OFF several times.







connection.

3. Look at the DC fuse. If it's burned, discolored or the metal is torn, replace it with NSN 5920-

makes for a had

Replace bad DC fuse

D52

C

FUSE 8A

ON

FUSE 8A

Description

Fundament service

Fundam

It's also possible the DC power cable is dam-

aged. Ask unit maintenance to test it with a multimeter. They should get 28 Vdc, ±.5 Vdc with the vehicle running. Anything else—replace the cable.

01-317-8432

Temporary Power

What do you do if you need immediate power for your mobile subscriber equipment (MSE), but your trailer-mounted generator is down for service or being prepared for startup?



At times like these it's OK to temporarily power your MSE equipment with your HMMWV. Just don't do it for more than 45 minutes at a stretch or you'll risk burning out the truck's voltage regulator.

If the voltage regulator goes out, you'll have no charging system for the HMMWV. Then, your equipment will start drawing power from the shelter's backup batteries. Those batteries provide only about 10 minutes of power—then your equipment crashes and you lose programmable data.

Remember, use the HMMWV for no more than 45 minutes to power your equipment. That should be enough time for a crew to perform basic services on the trailer-mounted generator or to prepare it for startup.

Generators . . .

Maintenance by Monitoring

100						1 % Load	
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200	beir	g used s	o that yo	ou can no	te deviat	ions from	
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0	best.	. Use your 4, Equipme	reading sl ent Inspect	neet to sup tion and M	ouble is Pl plement De aintenance	A Form	
	Worksheet. Monitoring will also help reduce a common cause of generator failurerunning out of fuel!						

Facts on Fax PM



Vour AN/UXC-7 facsimile will send images from one user to another as fast as lightning unless you've snuffed it with poor PM.

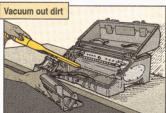
To make sure you always have clear images, give it this PM treatment:

Use the Cover

When the fax is mounted in a vehicle, keep the cover on when you're not using it. Otherwise, dust and dirt will clog moving parts.



When you get back from the field, or any time you see dirt in it, vacuum out the fax.



Forget about oiling or lubing the fax. It doesn't need it, and lube will just gum up parts and make 'em stick together.

Margin Release

When you reset the margin, squeeze the margin release tab. If you don't, it

wears the teeth on the drive belt and causes belt slippage.



Keep an eye on the power impulse ribbon. If it's crimped or broken, report it.

If you still can't get an image on your fax, have your repairman look at the FM printed circuit board on the modem. If the first and fourth ATI attenuator switches are vertical, your fax is set up for civilian circuits only. All four switches must be set horizontally for military circuits. DS sets them.

Movement

Movement can be hazardous to your fax's health. A loose carriage assembly and end-of-message assembly will move around and get damaged. Slide and lock the START and STOP handles before moving the fax. That'll keep the carriages fastened in place.

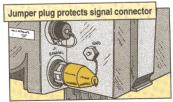
Here's how:

- Squeeze the tabs on the START handle and slide it to the far right. Make sure you squeeze the tabs or you'll strip the drive belt.
- Slide the STOP handle over beside the START.
- Pull the LOCK knob out and down. Now you're locked and ready to move out.



Cables

When your fax's signal cable is disconnected, always put the jumper plug on the signal connector. It protects the connector from moisture, dirt and sand.



PS 538 46 SEP 97

SEP 97

MAKE THE CONNECTION

Some things need repeating.

One of those is to take extra care when you hook up the cables on your SINCGARS radios. One careless hookup can bend pins or strip the keys out of a connector.

When you hook up the W4 cable or the H-250 handset connector, do it like this:

- 1. Depending on the type of cable connector you have, line up the flat or raised part of the cable connector with the top of the receptacle.
- **2.** Push in the connector firmly and evenly.
- 3. Turn it to the right until it locks.

Make the connections gently. Slamming them together damages or breaks pins and costs you your commo in the bargain.

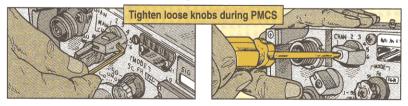


Tighten All Knobs

When you pull PMCS on the receiver-transmitter of your SINCGARS radio, make sure all the front panel knobs are tight.

Everyday use loosens the knobs. Loose knobs make communications difficult, because you can't adjust things like frequency or volume. Worse yet, knobs fall off and disappear, along with your communications.

Use the key set in your TK-101 tool kit or a screwdriver to tighten the fasteners on loose panel knobs. If a fastener is missing or damaged, your repairer will have to replace the entire knob. The fasteners alone are not available in the system. TM 11-5820-890-20P has replacement knobs.



PULON PIN PIN HEH, HEH, HEH! YOU'RE NOTHING BUT TROUBLE!

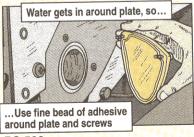
ar too many of the hollow pins that keep the Apache's pylon rack in place on its frame have water in them! Water means corrosion.

Water gets in the hollow pin around the pin cover plate.

The plate should be sealed, but many are not. Of those that are, many are not sealed right.

When you remove the pin cover plate, clean all the sealant off the plate and the pylon with acetone, NSN 6810-00-223-2739. If you don't get a clean, smooth surface on the plate and pylon, the leftover sealant creates gaps where moisture can seep into the pin.

When the surfaces are clean, seal the cover with adhesive, NSN 8040-00-833-9563.

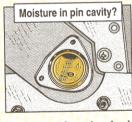


Put the adhesive on the plate. No need to glob it on. A fine bead around the plate and screws will do the trick.

Before you put the plate back,

though, check the pin for damage and to see if it's out-of-round. Make sure all the moisture is removed from the pin cavity.





Before you insert the pin, look closely at the bushings inside the pylon. Check the surfaces for any scoring or metal transfer and look for gouges and scratches.

Measure the inner diameter of the bushing to see if it's out-of-round.

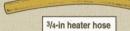
Follow Para 16 in TM 1-1520-238-23-8 for what's allowed and not allowed concerning damage to the bushings and the pin.

A Pitot Tube Cover

Dear Windy,

The pitot system on our Black Hawks doesn't like water getting in it or obstructions blocking it. To prevent both, the pitot tube has a fly-away cover. But the cover does just that—flies away—when another aircraft hovers close by or a strong wind blows.

I made a better cover for the pitot tube out of 15 inches of 3/4-in heater hose. Of course



you'll need two covers for each aircraft. My new covers stay in place and protect the pitot system.

Here's what else you need to make each:



2 screws, NSN 5305-00-912-7308



2 locknuts, NSN 5310-00-167-1284



4 flat washers, NSN 5310-00-167-0766

You'll also need the original pitot cover to attach to the new cover. Use a torn, worn one, if you can.

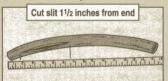
To make a new cover:

1) Lay the hose on a flat surface with the concave side on top.

2) One inch from each end, drill a 1/4-in hole through both sides of the hose.



3) Cut a 5-in slit on the bottom of the hose 11/2 inches from one end. The slit should widen in the middle to 3/8 inch and then taper back down to a point.



4) Collapse both ends of the hose with the screws, washers and nuts. This seals the openings to keep water, snow and debris out.

Collapse both ends of hose and attach hardware



5) Before you collapse the end of the hose with the slit, attach

the old cover and its "Remove Before Flight" streamer.

Attach old cover with vinyl tube removed



To put your new cover on, slip the hose onto the pitot tube through the widest part of the slit. Guide the hose over the tube. Be careful not to flex the pitot tube.



When the new cover is in place, lower the rear section of the hose over the back of the pitot elbow.



Joseph A. Pugliese AASF 3 Albany, NY



51

PS 538

50

SEP 97

SO LONG LOCKWIRE, HELLO SAFETY CABLE

WHAT HAPPENED TO HIM? LOOKS LIKE ANOTHER Thread LOCKWIRE VICTIM. HE SHOULD KNOW ABOUT SAFETY CABLE!

Lockwire has been a pain-in-the-hand for a long time. It's slower than molasses to install, Chubby Checker would have a tough time twisting it and it will cut you faster than bad, bad Leroy Brown.

Finally, there's something better-safety cable.

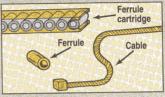
Safety cable is pre-twisted. It's more flexible than lockwire. It has a permanent stop on one end and comes with a stainless steel ferrule to crimp on the other end. One special tool will put the right tension on the cable, crimp the ferrule and cut off the excess.

Here's how you install safety cable:

- 1. Thread the cable through the fasteners.
- 2. Slide the ferrule on the cable.
- 3. Use the tool to tighten, crimp and cut off the excess.

Order 50 pieces of .032 diameter

safety cable in 18-in lengths, with NSN 5340-01-414-6582. You also get a ferrule cartridge with 50 ferrules.

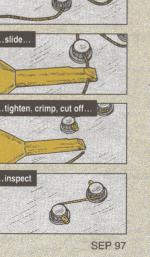


NSN 5340-01-414-6584 brings the same cable in 12-in lengths.

The installation tool is a combination of tool handle, NSN 5120-01-4138727, and the 3-in standard crimp nose assembly, NSN 5120-01-413-8725. NSN 5120-01-413-8724 brings a 7-in extended crimp nose assembly.

You'll also need torque verification block, NSN 6635-01-416-9870, to use with a standard torque wrench to periodically check the installation tool.

For more information on the safety cable and the installation tool, call the manufacturer at (800) 327-2432 or (407) 855-6161.





PS 538

52

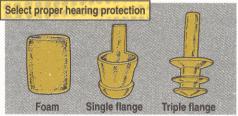
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inspect

Don't Take Chances, YOU HEAR!?



you one thing—deaf. If you're working in a noisy area, or your TM says to wear hearing protection when operating your equipment, wear your ear plugs or ear muffs. Even noise that doesn't seem loud can cause damage.



Sometimes you're told what type of hearing protection to use. If not, there are a number to choose from.

Get preformed, reusable ear plugs and ear muffs with these NSNs:

Туре	NSN	Qty	
Ear plugs	6515-00-392-0726	1 ea	
Ear muffs	4240-00-022-2946	1 ea	
Ear plugs	6515-01-149-4133	10 ea	
Ear plugs	6515-01-059-1821	12 ea	

All four come with headbands that let you wear them over or behind the head as well as under the chin. The ear plugs must be ordered through your medical folks and individually issued before they can be worn. They should never be used in areas where the noise rises above 95 decibels.

Ear muffs are considered safety items and can be purchased through regular channels.

Your local clinic can also fit you with single- and triple-flange ear plugs that fit in a handy carrying case. NSN 6515-01-100-1674 brings 20 extra carrying cases.

Get 200 pairs of disposable foam plugs with NSN 6515-00-137-6345.

Dessicant ...

Dry Up Moisture Problems



Dear Half-Mast.

I often run across tools and clothing that have been shut up for long periods in toolboxes, vans or storage rooms. Moisture has had a chance to do its worst and corrosion or mildew is the result. Soldiers are forced to use valuable time cleaning off all that corrosion or mildew. Sometimes the equipment has to be junked.

We soak up most of our moisture problems with desiccant. Whenever we store something like tools or clothing for long periods of time, we store a few desiccant bags with them. Most moisture goes in the bags, not on the equipment.

Here are some desiccant NSNs we've found:

NSN 6850-00-264-	Size (inches)	Qty	
6564	21/4 x 3 x 3/16	1,200	
6568	31/4 x 3 x 5/16	450	
6573	41/2 x 41/2 x 1/2	130	
6574	51/2 x 41/2 x 5/8	500	
6571	81/4 x 3 x 1/2	300	
6572	81/4 x 5 x 1/2	150	

Keith A. Wilcox MOARNG Festus, MO

That's the way to dry up moisture problems!

Half-Mast

New Utility Coveralls Are Here

The old, white utility coveralls, NSN 8415-00-782-6366 through -6371, have been replaced by green coveralls that have a zipper front and side pass-through pockets.

Here are the NSNs to order:

NSN 8405-01-395-	Size	
0940	XX-Small	
0941	X-Small	
1024	Small	
1114	Medium	
1135	Large	
1137	X-Large	
1140	XX-Large	



Life Preserver?

Life preserver, NSN 4220-00-276-8926, may be hazardous to your health. That's the word in Safety-of-Use Message (SOUM) SSCOM-96-01.

The life preserver might keep **you** afloat, but it can't handle you and all your field gear.

Life preserver, NSN 4220-00-202-7863, is built to handle you and your field gear, including the field pack. If you don't have the SOUM, call SSCOM at DSN 256-5451 or (508) 233-5451, or write Half-Mast.

PS 538

SEP 97

Avoid the



A few minutes in the hot summer sun is all it takes to turn your tools into finger scorchers.

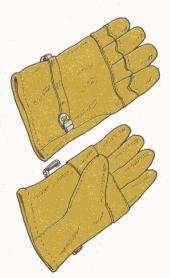
Wear gloves to protect your hands. Use these NSNs:

Heavy-duty work gloves

		Fits hand*		
Size	NSN 8415-00-268-	Length (inches)	Width (inches)	
12	7871	93/8	4	
2	7872	93/4	41/2	
3	7869	101/8	5	
4	7870	101/2	51/2	
5	7868	107/8	6	



Light-duty work gloves



		Fits hand*		
Size	NSN 8415-01-310-	Length (inches)	Width (inches)	
1	7334	9	45/8	
2	7335	93/8	43/4	
3	7336	10	47/8	
4	7337	103/8	51/8	
5	7338	10 ⁷ /8	51/4	

*To determine the glove size you need, measure your hand like this:

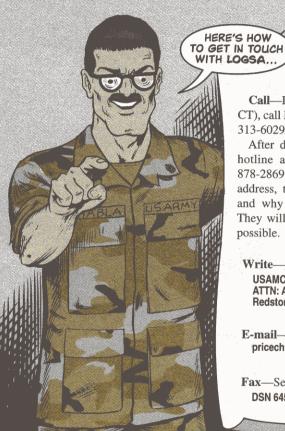
Length. Measure from the tip of your middle finger to a point two inches below your wrist.

Width. From a point 1/2 inch below the base of your little finger, measure across your hand.

Remember to leave a little extra room for comfort and, if necessary, for cold weather glove inserts.



f you think you've found an overpriced item on the AMDF, let the Logistics Support Activity (LOGSA) check it out through its price challenge program.



Call—During duty hours (0730-1630 CT), call DSN 897-6029/6515 or (205) 313-6029/6515

After duty hours, dial the 24-hour hotline at DSN 645-0499 or (800) 878-2869. Leave your name, military address, telephone number, the NSN and why you think it's overpriced. They will get back to you as soon as possible.

Write—Drop a memo to:
USAMC Logistics Support Activity
ATTN: AMXLS-CIP
Redstone Arsenal. AL 35898-7466

E-mail—Send your challenge to: pricech@logsa.army.mil

Fax—Send your price challenge to: DSN 645-7720 or (205) 955-7720

Don't challenge items with acquisition advice codes (AAC) of V or Y (deleted items); J or Z (non-stocked items); L or K (local purchase items); items with "E" in the price signal column of the AMDF (price estimate); or end items, such as trucks, radios and generators, etc.

PS 538 58 SEP 97

That includes major items and repairables that are moved between units and repair shops.

Equipment leaves a unit needing only minor repair. It winds up at support busted to pieces and fit only for junk. That means extra work for somebody—and extra money from Uncle Sam for more repair parts.

To make sure that stuff gets where it's going safe and sound, here are some pointers to keep in mind:

- Use original boxes or "fast packs" to protect fragile items. Electrostatic discharge sensitive items need special care.
- Make sure the item is repairable and all the parts that go with an item are with it.
- Pack the item as neatly and snugly as possible. Use padding where needed.
- Tag it with the NSN, nomenclature, condition code, and destination.
- ✓ Enclose all maintenance records (if required).

Then, move gear with care. No banging, dropping, slamming, rolling or bouncing.

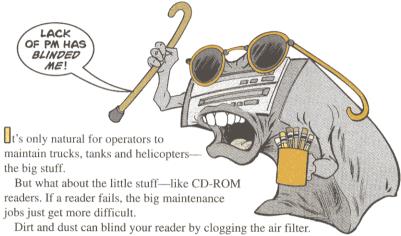
That way, it'll come back to you sooner, and in fighting shape.

For more info on packaging field returns, contact:

USAMC LOGSA PSCC ATTN: AMXLS-TP-P Tobyhanna, PA 18466-5097

Call: DSN 795-7682 or (717) 895-7682. E-mail: olollis@tobyhanna-emh3.army.mil

SWEAT THE LITTLE STUFF



A clogged air filter makes the vent fan work harder. That means no cool air gets circulated. As the inside temperature rises, components begin to burn up.

Save yourself costly headaches. Look at the filter to make sure it's clean. If you're in a very dusty place, look at the filter daily. If it's dirty, change it.

Check out your reader manufacturer's manual for filter ordering information. In a pinch, you can reuse a dirty filter if you rinse it out with warm water. Be sure the filter is completely dry before putting it back in the reader, though.

After pulling maintenance on the little stuff, you can move on to the big stuff.

FED LOG Replaces ARMYLOG

ARMYLOG has gone away. It has been replaced by FED LOG.

Don't worry, though. If you now get ARMYLOG, you will automatically get the basic FED LOG (Discs 1-4).

Questions? Getting too many FED LOGS? Call LOGSA at DSN 645-0782, (205) 955-0782. Or, write to:

USAMC Logistics Support Activity ATTN: AMXLS-CIP Bidg 3623 Redstone Arsenal, AL 35898-7466 You can also order FED LOG Disc 5, Characteristics Search, and Disc 6, Representative Drawings, directly from:

> Defense Logistics Service ATTN: DLSC-VPC (Subscription Team) 74 Washington Ave. N Station 7

Battle Creek, MI 49017-3084

Disc 5 costs \$84 a year for a monthly disc, and Disc 6 costs \$12.50 a year for a quarterly disc.



Chemical Hotline

If you have questions about the operation and maintenance of your chemical equipment, call the chemical maintenance hotline. Toll-free numbers are answered 24 hours a day. In the U.S., call (800)831-4408. In Germany, call 0130810280. In Korea, call 0078-14-800-0335. Questions may be faxed to (410) 671-3912, but it's not toll-free.

Rust Inhibitor Update

NSN 8030-01-414-7430 brings a 55-gal drum of rust inhibitor as we said on Page 23 of PS 537, but it doesn't bring a spray applicator and video instruction tape. To get a 55-gal drum of inhibitor, an applicator and video, you have to use NSN 8030-01-389-1413.

M42 Mask Hose Correction

In PS 536, we told you to keep the M42 mask hose when you turn in the M42 facepiece. Don't do that. Taking off the M42 hose ruins the facepiece. You should remove and keep the M42A1 hose (the one with a star-shaped connector). You will use it with the replacement facepiece.

XM1065 Door Handle

NSN 2540-01-254-9921 gets a new door handle for the roadside door assembly on the XM1065 expansible van. The NSN shown as Item 18. Fig 22 of TM 9-2330-377-14&P is wrong.

SEE Hydraulic Filter

NSN 4330-01-224-5507 gets the filter element for the SEE's hydraulic tank. The NSN listed for Item 16 in Fig 318 of TM 5-2420-224-24P is no longer available.

Soak Up Oil Spills

To help stop injuries caused by slipping on oil spills, get a compound to soak 'em up, NSN 7930-00-269-1272 gets a 50-lb bag of absorbent compound. It's authorized by Table 1 of CTA 50-970.

ROWPU Socket Set Correction

Page 18 of TM 10-4610-215-10-HR lists the wrong NSN for the 600-GPH ROWPU's 9/16in socket wrench socket. The correct NSN is 5120-00-189-7932. Make a note until the TM is updated.

DISTRIBUTION: To be distributed in accordance with the initial distribution number (IDN) 340312, requirements for TB 43-PS-Series.

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

