

Check your stored equipment and pluck out those batteries! Radios, telephones, switchboards, night vision devices. mine detectors, radiac sets, nuclear soil testers, flashlights, public address sets, multimeters, ground sensors, lie detectors, cameras, aiming circles and chemical agent alarms.

JAN 92



TB 43-PS-470, 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 for 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.

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tions or comments on material published in PS. Just write to:

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By Order of the Secretary of the Army: GORDON R. SULLIVAN General, United States Army Chief of Staff



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The TOW optical sight has no covers for its lenses. In windy, sandy areas the lenses can be scratched by blowing sand. Eventually, the expensive lenses have to be replaced.

We've found there are cheap plastic covers in the system that fit the op sight perfectly and do a good job of protecting the lenses. NSN 5340-01-121-8776 brings the larger cover, NSN 5340-00-855-7993 the smaller, and NSN 5935-01-087-1298 gets the eyepiece cover.

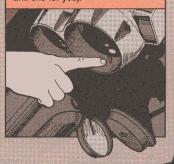
NSN 5340-01-121-8776 and NSN 5935-01-087-1298 are not on the AMDF, so order them on a DD Form 1348-6 and put "not on AMDF" in the Remarks column.

To keep the covers from disappearing, poke a small hole in the center of each cover just big enough to thread a piece of string through.

Dear Editor.



Put one end of a piece of string through the cover's hole and the other through a small hole in the lens' shield (support may need to drill one for you).



Sights

The hole needs to be far enough back so it doesn't interfere with the cover. Knot each end of the string several times so the string doesn't slip out of the cover or shield.

When you fire, just flip the covers off and let them dangle out of the way.

Gary Cope Ft Campbell, KY



M901A1 Improved TOW Vehicle...

Stop Stop Screw Breaking

Dear Editor,
M901 crews like to set the
gunner's seat as low as
possible. The problem is that
when they have to stand on
the seat the extra weight
causes the edge of the screw
slot to snap the screw. Then
the seat can turn around,
making it hard to get the
adjusting pin in the hole.

We've found that filing the slot ½ inch longer saves screws. That extra ½ inch lets the floor—not the screw—stop the seat.

SPC Freddy Correamanrique Ft Carson, CO

A HALF INCH LONGER.

(Editor's note: Your screw solution certainly deserves filing. Don't stop with the good ideas.)

JAN 92

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RADically Good Pag

Dear Editor,

During operations, dirt builds up on the bearing of the M901's remote arming device (RAD). That makes the RAD motor work too hard and it burns up. The RAD won't seat in the launcher and the TOW can't be armed.

We've found you can seal out much of the dirt if you glue pieces of rubber—like old innertube—over the openings in the RAD box for the cables and hydraulic line. Just fit the rubber around the cables and lines.



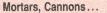
Of course, that's not going to shut out all dirt. After operations, you still need to pull the RAD cover and clean the RAD, especially around the bearing. A clean paint brush and 30 PSI air do the job the best.

SPC Jerry Martelli Ft Carson, CO



or RTV caulking would also be

good ways to plug the holes.)



Fill in New One First

You armorers and repairmen can save yourselves and your support a lot of trouble by remembering one simple rule:

Transfer all info from the DA Form 2408-4s you keep on your unit's mortars and cannons to new 2408-4s before you send in the old forms to Watervliet Arsenal.

If you lose that info, your support's hands are tied when it comes to repairs. Without knowing how many rounds the weapon has fired or when it was last borescoped, they can do nothing. And you are out a mortar or cannon until you can dig up that info.



WEAPON RECORD DATA For use of this form, see Data Pass, 134-159 and 32-151, the proponent. 1. TUBE SERIAL NO. 2. CANNON TYPE, MODEL OR BER155 105 MM M68							CO A IST BN 25TH ARMOK CRITERION 1000 ETC				
TANK	COMB	ĂT	M60	1A3	SN7	666 BUSHINGS	APPS-THEAT-HER-TWP-T	EFC T EFC T EFC	1.0 A8	ABJENT TEND READING WOLLDON'S F BORGSON C FACTOR GAGE	PE PULLOUER VERY 2006F REECHRING 000 EFC POS
1757 10.	Projectile	Zone or	Rounds	EFC RDS	Comulative RDS Fired	Cum	ulative EFC RC		Remaining Life (EFC RDS)	Remarks: Recoil Exercise (RE), Gags or Velocity Read- ing, Safety Inspection (SI)	Signature
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10 OCT 88								1		NEW FORM INITIALIZED	

JAN 92 5

M240-Series Machine Gun...



It's often the little things that make the difference between an M240 that roars and one that only meows. Take aim at these points to keep your M240 roaring loud and clear:

Lay your M240 flat for transport when it's not mounted. If you stand it on end, it falls. Just a small dent in the receiver extension can cause the operating rod to bind and the M240 to slow way down or stop.



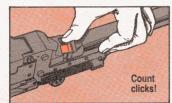
6



THESE
LITTLE THINGS
WILL HELPME ROAR
IN THE FIELD.

Also lay it on the side opposite the feed tray to protect the tray from bumps. And keep the feed tray cover closed. One good jolt bends the cover pin. The cover won't close correctly and you have feeding problems.

Count clicks when you lock in the barrel. If it takes fewer than two or more than seven clicks of the barrel release to lock in the barrel, head-spacing's bad. It would be dangerous to you and your M240 to fire it like that.



Add these checks to your BEFORE PMCS.



JAN 92

Little Things

Feed lever doesn't move freely? The feed pawl rollers are sticking and will cause feeding problems.

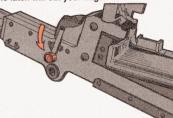


Any feed pawl and cartridge guide springs not seated? A loose spring will cause feeding problems.

Feed pawl retaining clips missing? They're often forgotten during reassembly. Without clips, the feed pawls will get out of position and your M240 will jam.



Barrel locking latch cover splitting or working off? Without the cover, the latch will cut your finger.

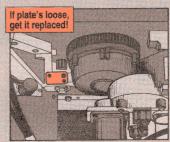


Report problems to your armorer.

M163A1, M167A1 Vulcan... Give Azimuth a Good Foundation

Vibration, bumps, and the continual turning of the turret wear the screw holes in the -A1's azimuth assembly mounting plate. Then the plate fits loosely. The azimuth gears do not mesh. They get chewed up.

That's why you need to eyeball the plate weekly. If the screw holes start to round out, report it. Your repairman can replace the plate, NSN 1005-00-857-2817, in a snap.



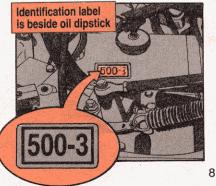
Trans-Engine Combo Change



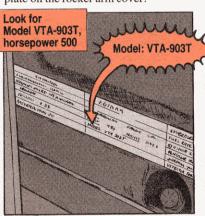
y ou Bradley and MLRS mechanics who make controller schedule adjustments need to know about an enginetransmission combination that changes RPM requirements in the TMs.

The HMPT 500-3 transmission and 500-HP engine combination requires 2425-2525 RPM in schedule adjustment procedures, instead of 2350-2450 RPM used for other trans-engine combinations.

You mechs can identify the HMPT 500-3 transmission by a label beside the oil dipstick. The 500-HP engine



can be identified by checking the ID plate on the rocker arm cover.



Make a note on the following TM pages until changes pick up this new info:

M2/M3, M2A1/M3A1-

Page 6-577, TM 9-2350-252-20-1-3 M2A2/M3A2—

Page 6-808, TM 9-2350-284-20-1-3 MLRS—

Page 6-482, TM 9-1450-646-20-3

Avoid Ammo Chute Damage

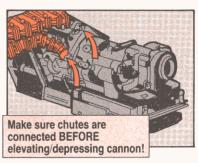
Keep all ammo chutes connected on your Bradley when the cannon is installed.

Loose ammo chutes get banged up when the cannon is raised or lowered. The chutes also cause damage to cables and wires when they're loose. They can even lock up a turret during traversing.

Keep the chutes connected, remembering that the easiest way to attach them is to attach the bottom one first.

If you already have damaged HE and AP ammo chute exit end fittings, hang

on to them when you install new ones. The fittings are repairable with kit, PN S259008, CAGE 98459, RIC B14.



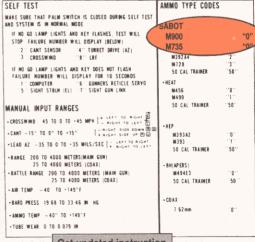
M1/IPM1 Tanks...

New Round Takes Instruction Plate

Now that the M900 APFSDS-T cartridge has been stocked, you M1 and IPM1 tankers need a new instruction plate for the computer control panel.

The plate, NSN 9905-01-314-1566, replaces the one inside the control panel door. The new plate adds the M900 cartridge under SABOT and gives it the SUBDES of "O". That's the same as the M735 cartridge, because both have similar ballistic solutions.

Info on how to install the plate is on Pages 9-105 and 9-106 of TM 9-2350-255-20-2-4.



Get updated instruction plate for new cartridge

Surge Tank

urge tank straps on these 5-ton trucks flex and break under the stress. The tank support strap is connected to the engine. Engine vibration cracks the strap, leaving the surge tank with no support.

Keep the strap from cracking and breaking by replacing the nut on the engine strap mounting bolt with a special self-locking nut. NSN 5310-00-984-3806.



Strap Fix

If the strap is already broken, you can fix it like this:

- Get some rubber material, like an old mud flap or splash shield, NSN 2450-00-715-7407, and epoxy adhesive, NSN 8040-00-109-2481.
- Remove the broken strap without breaking the spot weld on the tank.
- Use it as a pattern to measure and drill the rubber material. Add 2 inches to the length before cutting out the strap.
- Drill a ½-in hole in the strip that matches the hole in the old strap.
- Glue the undrilled end of the strap
 —overlap it 2 inches—to the remaining surge tank strap with epoxy adhesive. Let the adhesive cure.
- Bolt the support strap to the strap and you're done.





The rubber strap absorbs the vibrations and doesn't crack under stress.

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5-Ton Trucks...

Stop Hydraulic Tank Leaks



trucks with winches have come up with leaking hydraulic tanks. We find vibration cracks the welded seams of the tanks. We stopped the cracks by adding rubber washers, NSN 5310-00-333-7528, between the mounting brackets and the tanks. These rubber buffers absorb the vibrations. Result—no more cracks or

Thought you might want to pass the word.

Armin Herbach APO New York

(Editor's note: Consider the word passed.)

Easy on the Fill-up



favor by not topping off the fuel tank. Instead of filling up to the brim, leave about 2 inches of air space below the filler neck.

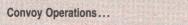
The extra fuel in the M939-series truck's tank gets sucked into the fuel vent line that goes into the engine air intake system. Fuel clogs the air filter.

Worse yet, diesel fuel sucked thru the air cleaner can cause engine runaway. Fuel leaks past the piston rings into the engine oil. When it does, it dilutes the oil. Oil can't do its job of protecting moving parts. Parts wear out by grinding themselves to bits.

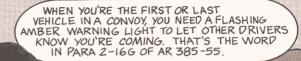
So-o-o-o, when you top off your tank, be sure to leave about 2 inches below the fill neck for expansion room.

Better yet, have your mechanic paint a line 2 inches down and stencil "CAU-TION: Do not fill above this line to allow for expansion" in 1-in black letters. This info is in Fig 20 of TB 43-0209.

DO NOT FILL ABOVE THIS TO ALLOW FOR EXPANSION



Follow the Flashing Light



warning light kits are already listed in most big truck and recovery vehicle TMs. If your manual doesn't list one, your CO can OK the kit for your vehicle.

For 21/2- and 5-ton dump trucks, ask for NSN 6220-01-219-7620.

The 5-ton expandable van takes NSN 6220-01-219-7621.

For all other 2½- and 5-ton trucks and M816 and M936 wreckers, use NSN 6220-01-195-1791.

For CUCVs, HMMWVs and M747, M871 and M872 semitrailers, you need NSN 2590-01-107-9696.

These kits do not come with an amber bubble light. To get one, use NSN 6220-00-947-7570.

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Some Cool



Use ST 255 Radiator Testing Kit, NSN 4910-00-728-8227, to test the radiator cap and the entire cooling system.

The kit is listed in TM 750-254, Cooling Systems: Tactical Vehicles. But the TM doesn't give any instructions on how to use it.



Radiator Cap

Start by testing the radiator cap to make sure the gasket is not cracked or torn and no pressure is leaking out.

Get an adapter from the testing kit that will fit your radiator cap.





Moisten the gasket on the cap with water or antifreeze, the way it would be under normal operating conditions.

JAN 92

PM Checks

Work the pump until the gage shows the required pounds per square inch (PSI). The PSI is stamped on the radiator cap.

If the cap's good, the needle on the gage will hold at the required PSI. If the needle doesn't hold, the cap's losing pressure. Time for a new cap.

Cooling System

You'll also need to test the entire cooling system for leaks. Follow these steps:

Make sure the engine's cool before testing.

2 Remove the radiator cap and attach the pump's nozzle to the neck of the radiator.



- Work the pump until the gage shows the required PSI.
- **4** Keep an eye on the gage. If the pressure's dropping, there's a leak in the cooling system. Listen for escaping air. Look for coolant leaking out at these places:

Hoses Radiator
Hose connections Freeze plugs
Water pump

Also look for hoses that swell or bulge. They probably need to be replaced.

(5) After making your inspection, gradually release the pressure on the pump's nozzle so that coolant doesn't gush out. Remember, the coolant's under pressure.

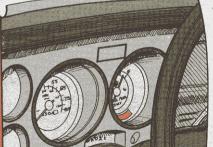


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No Brake Warning Lightening

YOU'RE NOT GOING ANYWHERE UNTIL MY BRAKE WARNING LIGHT IS WORKING PROPERLY

ear Hait-Mast. 289-10's PMCS Item 5 f says a vehicle is not ready/available if the brake warning light stays on after the engine starts and the parking brake Dear Half-Mast, What if the light doesn't come is released 55G TA.F. on at all ?



Dear Sergeant T.A.F., The CUCV is NMC.

That light is a safety device to let you know of any failure in the braking system. If it doesn't come on when the ignition is switched on, it can't do its safety thing.

The headshed will add this check to the PMCS when the -10 manual is revised.

Half-Mast

CUCV...

Windshield Visor

5 unlight causes the vinyl dashboard on your CUCV to fade and crack. Save that dashboard from falling apart with the help of a windshield visor.

The visor comes with NSN 9905-99-000-9999 for \$1.50. Order from GSA.



Drivebelts...

Cut? Frayed? What's NMC?

Everyone agrees that a cut or frayed drivebelt makes a vehicle NMC. The vehicle's PMCS chart says so, too.

But just how bad does a cut or fray have to be to deadline a vehicle? Some -10 TMs do not say. Here's the word:

"A vehicle is not mission capable if any drivebelt is missing, broken, cracked to the belt fiber, has more than 1 crack (1/8 inch in depth or 50 percent of belt thickness) or has frays more than 2 inches long."

Cuts? Frays? It's NMC





hose front and rear dolly trailers have a few quirks that you need to know about. So that with a little tender loving care from you, the truck driver, the dollies will have no trouble getting your load-like a MUST U-pack-on the road and to the field.

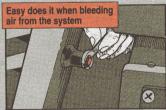
Sometimes an M829, M832 or M689-series dolly will stop while you're lowering it to hook onto the U-pack. The hydraulic cylinder may stick. Help the dolly go all the way down by putting your weight on it.

Or the hang-up could be caused by moisture in the hydraulic pump. This is

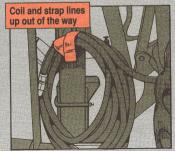


especially true on cool nights after hot days when condensation forms. Get your mechanic to drain the contaminated hydraulic oil and refill. Make sure the fill plug's screwed in tight. Otherwise, water can seep in the pump.

The hydraulic bleed valve has a nasty habit of breaking off when you turn it to bleed air from the system. Always use the right tool to bleed-a 7/16-in open-end wrench. Never use an adjustable wrench or a pair of pliers.



The air and electrical lines get damaged when they hang down.

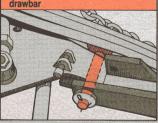


Need T-L-C

Back off the muscle when putting the telescoping bar on the rear axle assembly.



Careful when you back a loaded dolly. You'll break the locking pin or drawbar



Read all cautions called out in the TM about backing up the dolly set. Always use ground guides, especially when operating in confined areas.

Tactical Vehicles...

Doing Windows

For vellowed, discolored or scratched plastic windows, wash with soap, water and a soft clean cloth.

Rinse with clean water and let dry. Apply hand cleaner, NSN 8520-00-782-3509, with another soft, clean cloth.

Finally, wipe it off with a clean, dry cloth.

HMMWV Ballistic Glass

Ballistic glass in an armored HMMWV needs special attention.

Wash and dry it the same way you would a plastic one.

Finish up with plastic polish, NSN 7930-00-935-3794, to clean and remove light scratches. Again, wipe off the excess with a soft, clean cloth. **JAN 92** 19



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Dipstick Keeps Track of Fuel

f you can't figure out how much fuel's left in the 600-gal fuel pod on your Mil-design tank and pump unit (TPU), NSN 4930-00-426-9960, get a fuel measuring stick, NSN 5210-01-083-2926. It'll show you how much fuel you have in gallons or liters.

The dipstick won't work on the commercial-design TPU, like the Highland Industries Model 2000, NSN 4930-00-877-8678—the tank's shaped differently.



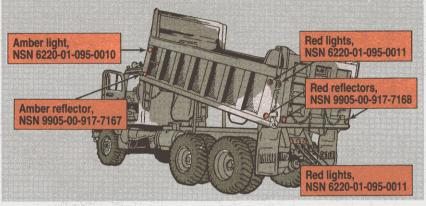
20

F5070 Dump Truck...

Light It Up Right

If you need the marker lights for the dump body of your 20-ton CCE dump truck, you won't find them listed in TM 5-3805-254-20P. And the dump body reflectors aren't called out right in Fig 45 either.

Here are the NSNs for the lights and the reflectors, and also where they go:

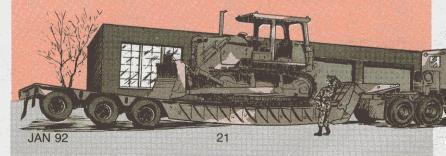


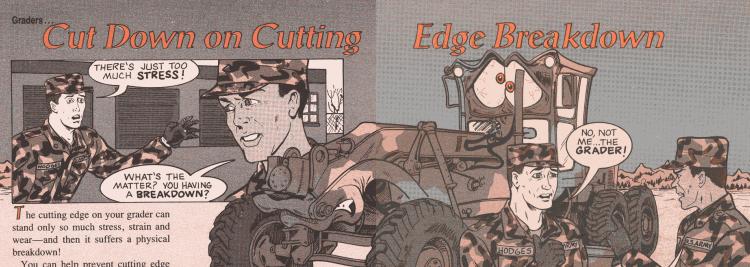
M870-, A1-Semitrailers...

Saggin' Wagon Still Draggin'

You get cracked frames, busted welds, and other problems when you haul a D8K tractor on your M870 semitrailer. The D8K is too heavy for the M870 semitrailer.

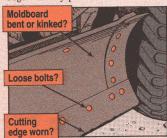
Do yourself and your M870 semitrailer a favor by lightening the load. Take off the dozer blade and rollover protective structure and haul them separately. If your tractor has a ripper, take it off and haul it separately, too. Shed extra pounds by cleaning caked dirt and dried mud off the tractor before loading.





You can help prevent cutting edge failure by learning what causes it to break down and wear:

• Loose bolts—Just one loose bolt can cause cutting edge breakage. Always use the heat-treated bolts and nuts called for in your parts TM, and make sure they're tight. Start tightening bolts from the center of the moldboard toward the ends. This ensures the cutting edge will stay put.

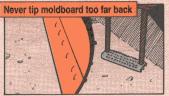


• Bent or kinked moldboard— Bends and kinks put a lot of stress on cutting edges, and they break. Eyeball the moldboard every day before you start operating to make sure the moldboard is straight.

• Worn cutting edge—Watch to make sure the cutting edges are not worn to the bottom edge of the moldboard. Worn cutting edges will ruin the moldboard. To get more life out of the cutting edge, reverse it—or get a new one installed.

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• Wrong moldboard angle— Never tip the moldboard too far back. This puts too much stress on the cutting edge. Tip the moldboard forward at a 90° angle. That will reduce breakage and keep a sharper cutting edge.



• Cutting torches vs blades— Heat makes the cutting edge brittle and easy to break. Only qualified welders are authorized to use a cutting torch to cut bolts from the cutting edges. Never use an acetylene torch to cut a bolt off a reversible cutting edge.

MUST'VE

PUSHED HIM

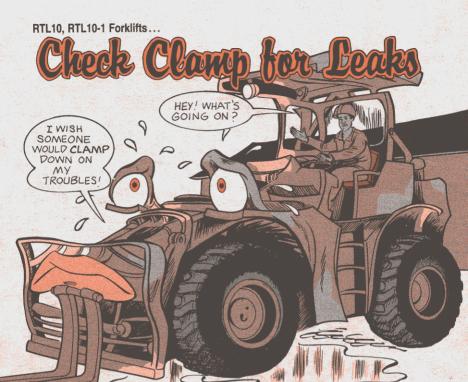
OVER THE

EDGE!

• Road hazards—Watch for manhole covers, bridge expansion plates, railroad tracks or other solid objects. If you hit one with the grader cutting edge, the cutting edge, moldboard, circle, circle drive, drawbar and all related parts will break.

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could be that leak at the hydraulic reservoir on the 10,000-lb forklift is caused by a loose clamp.



So, before you send your forklift for a reservoir repair job, do this...

- Clean the leaking area with hot, soapy water.
- Start the engine and engage the hydraulic pump.
 - ♦ Let it run 2-3 minutes.
- ♦ Eyeball the hose connection for a leak.
- If you see a leak, shut down the engine and tighten the clamp hardware.

Wait 5 minutes, start the engine and engage the pump again. Eyeball the area for leakage again. No leak? The problem's solved.

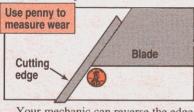
If you still see a leak, it's probably a hydraulic reservoir leak. Send the forklift to DS.

Keep a Keen Edge

Reeping a good edge on your dozer's moldboard is a sign of a sharp operator!

The cutting edge protects the moldboard. If the edge wears down too far, the blade is damaged... and has to be replaced or sent to DS for repair.

Eyeball the blade's cutting edge before starting the day's operation. If the edge is worn to less than ¾ inch that's about the width of a penny laid on its side, report it.



Your mechanic can reverse the edge—or replace it if it can't be reversed.



SEE/HMMH...

Hand Tool Winter Operation

t's almost impossible to connect the two auxiliary hose quick-disconnect couplings together on the SEE and HMMH's hose reel. That's because the hose bracket is too close to the couplings.

To put the couple back in those couplings, loosen the nuts on the hose bracket, move it about 4 inches toward the reel, then tighten the nuts.

Now you've got enough free hose to couple the two auxiliary hose reel ends to preheat the hydraulic oil.



Bracket-"Before" position



This is a selected list of recent pubs of interest to organizational maintenance personnel. This list was made from a computer printout provided by the Adiutant General's Office.

TM 5-3805-260-24 Mar Tractor scraper, models 613BSS, 613BSS1, 613BSNS and 613BSNS1

TM 9-1025-200-12&P Sep M114A1 towed howit-

zer

TM 9-6920-600-14 Aug Patriot air defense guided missile system

TM 10-1670-294-23&P Jul Cargo parachute: 35 ft dia, ribbon extraction parachute

TM 11-1520-237-23-4 Mar Fault isolation for UH-

60A

TB 1-1520-238-20-23 Jun Uncommanded Hellfire launches on AH-64A

TB 1-1520-238-20-25 Jun Inspect AH-64A nut torque on tail rotor forward and aft hanger bearings

TB 1-1520-244-20-35 Sep Inspect AH-1 MS nuts

for cracking

TB 11-6605-300-35 Oct AN/ASN-143 heading attitude reference set

TB 55-1520-240-20-56 Apr Fatigue life for CH-47D aircraft

Maintenance Advisory and Safety-of-Use Messages

AMCCOM SOU MSG 91-16—Advisory, Safety procedures while training with smoke, AMSMC-SFS 221940Z Jul 91.

AMCCOM SOU MSG 91-17—Advisory, Check for improper routing of intercome wiring harness on M109A2/A3/-A4/A5 selfpropelled howitzer, AMSMC-MAE-WF 022030Z Aug 91.

AMCCOM SOU MSG 91-19—Operational, Prohibits using backup computer system (BUCS) for M483A1 projectile, AMSMC-MA 101600Z Oct 91.

TACOM SOU 91-10— Operational, Replace pushpull headlight switch on 1986 model CUCVs, AMSTA-MTA 181030Z Sep 91.

TACOM SOU MSG 91-16—Limited One-Time Inspection, Inspect for cracks in front spring clips on M939A2 series 5-ton vehicles. AMSTA-MTB 141400Z Aug 91. TACOM SOU MSG 91-18—Advisory, Operational, Keep the maintenance switch in the POWER-ON position on M992 FAASV crew/engine automatic fire extinguishing system, AMSTA-MCC 192330Z Aug 91

TROSCOM SOU MSG 16-91—Operational, Gives proper operating procedures for the M-59 field range outfit, AMSTR-M 241830Z Sep 91

TROSCOM SOU MSG 20-91—One-Time Inspection, Limited, Inspect internal main electrical power cable on Airtacs Corp 18,000 BTUH air conditioner, AMSTR-ME 291300Z Oct 01

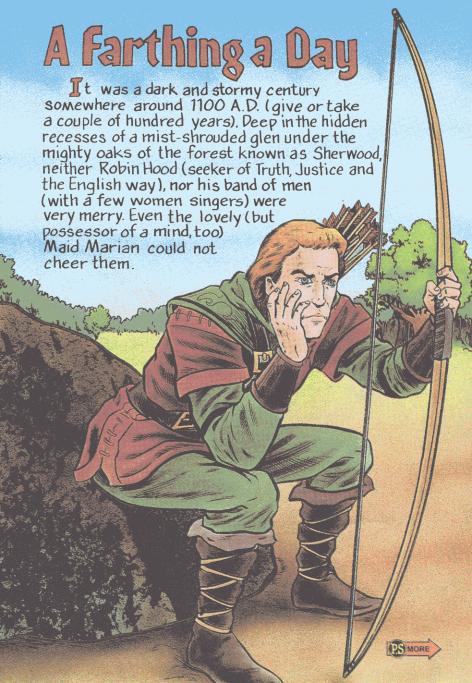
TROSCOM Maintenance Advisory 91-37— Setting up large area maintenance shelters (LAMS) manufactured by Clamshell Buildings, Inc, AMSTR-ME 171630Z Oct 91

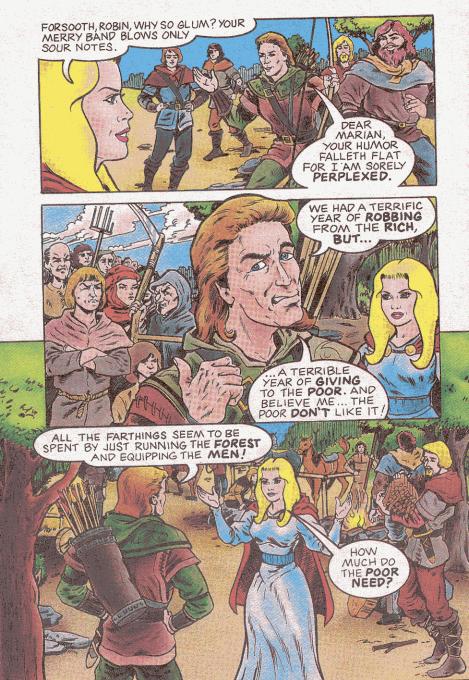
TROSCOM Maintenance Advisory 91-32—Adapters to use on open circuit military scuba system, AMSTR-ME 161930Z Oct 91.

TROSCOM Maintenance Advisory 91-35—
Advises divers using KMB-10. 28 Bandmask, Heliox-18, DS1-18 Bandmask, Superlite 17A or Superlite 178 Helmet of underwater explosion possibility, AMSTR-ME 161900Z Oct 91.

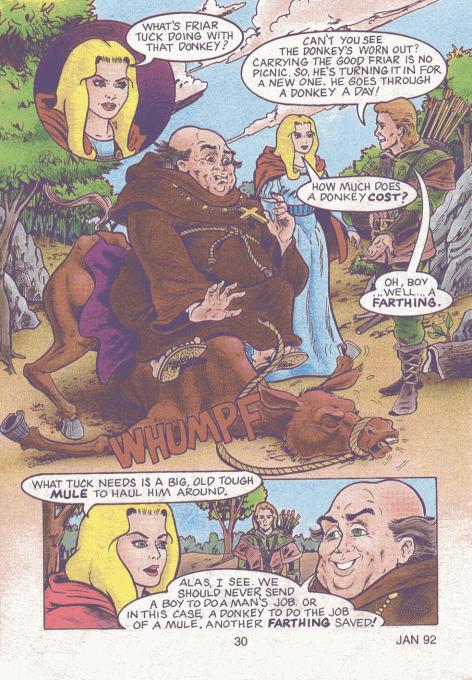
USAGMPA Petroleum Technical Advisory MSG 10-46—Gives guidelines for inspecting cooling systems on equipment returning from Saudi Arabia, STRGP-FT 291900Z Oct 91.

Your Direct Support or Logistics Assistance Office (LAO) can provide you with more information.





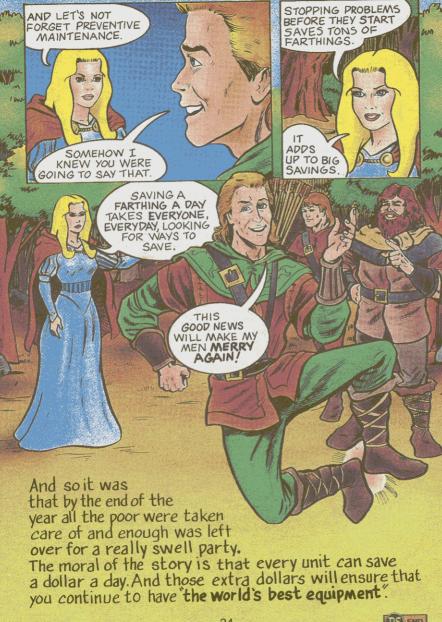








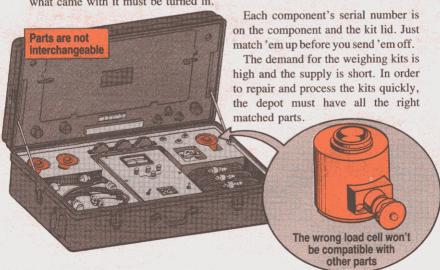






dentical does not mean interchangeable. Each A/S 37M-1, Aircraft Weighing Kit, looks like any other A/S 37M-1 and does the same job—weigh and determine the center of gravity of an aircraft.

But some of you think that since the parts to a kit look the same, they're interchangeable from kit to kit. They are not. Every kit is a matched set. What came with the kit must be used as a kit. When the kit's turned in for repair, what came with it must be turned in.



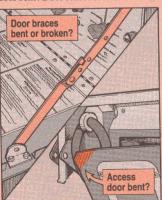
Walk Around Your AGPU



36

your Aviation Ground Power Unit (AGPU) and spot small problems before they become big troubles:

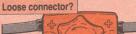
Frame and Housing—Dents, cracks, punctures, corrosion, damaged hinges or broken latches on doors? Access door bent? Door braces broken or bent?



Control Panel-Meter or gage glasses broken or cracked? Missing parts? Corroded?



Battery-Holddown or guide loose, corroded? Vent drain tubes missing or damaged? Cables and connectors loose? Electrolyte level low?

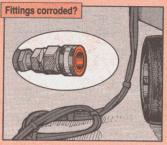




JAN 92

Engine Compartment-Oil or fuel leaks? Air intake duct corroded? Loose or missing bolts? Damaged hoses?

Hydraulic Compartments-Fluid level low? Missing or loose? Cracked glass on gages? Damaged or corroded fittings? Leaks?



Cables and Hoses-Insulation torn or worn? Clamp loose? Spiral wrap and netting missing?



Propulsion System-Oil leaks? Worn or underinflated tires? Missing wheel lug nuts? Brake cable damaged? Missing or loose fasteners? Bent or broken springs? Broken or loose terminals? Loose or missing brush covers?

Now that you have your list of small AGPU problems, follow TM 55-1730-229-12 to fix those problems you can and report the rest.

Apache APU Enclosure...

Don't Tread on Me!



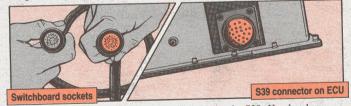
The Apache's APU enclosure provides a little, just a little, protection for the auxiliary power unit (APU).

One unit's mechanics used the enclosure for a chair. The enclosure rubbed the APU fuel line and cracked it. The crack became a hole ... fuel leaked ... and ignited!

So, when you're working around the APU with the enclosure exposed, think of the enclosure as part of the APU, not part of your aircraft's frame. And stay off it! JAN 92 37



cooking up the circuit continuity switchboard to the S39 connector on the Electrical Control Unit (ECU) to troubleshoot the T700 or T701 engine can bring on a big headache.



The problem is it's real easy to bend the pins on the S39. Here's why:

- You can't see the connection, so you have to make the hookup blind;
- The switchboard socket is straight, so you don't have a good angle to make the connection like an elbow would give you;
- The socket well is not deep enough to let you guide in the pins;
- And the switchboard socket can come with either a hard, black seal, with deeply recessed holes; or, a soft, red seal, where the holes are not deeply set. The soft, red seal grabs the pins before they seat and as you try to make the connection the pins bend and break.

Good Connection

TO MAKE THE
CONNECTION AND
SAVE THE PINS, REMEMBER
THESE THREE PS:

Patience

-you can't do this in a hurry.

Push

—when you feel you're lined up, push in gently, don't twist. If you twist, the seal grabs the pins and they twist.

Pull back

—if you don't hit the mark the first time, don't search by wiggling or turning. Pull back and try again.





Aviation Messages

If your unit has not received a message you have an interest in, check with your next higher headquarters.

OH-58-91-ASAM-15, Maint Mand, OH-58A/C, Revision to OH-58-91-ASAM-14, inspect MS nuts for cracking, 042100Z Sep 91. AH-64-91-ASAM-18, Maint Mand, AH-64A, Expanded inspection criteria and procedures for main landing gear mount, 121600Z Sep 91.

JAN 92

UH-1-91-ASAM-17, UH-1 and EH-1, Numbering of Safety of Flight messages UH-1-91-01 and UH-1-91-02, 161830Z Sep 91.
OH-58-91-ASAM-16, Maint Mand, Inspect OH-58D engine cowling and duct, 192130Z Sep 91.
UH-1-91-02, SOF, UH-1

39

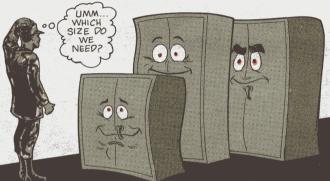
CAT 1 EIR Phone: DSN 693-2066 (24 HOURS)

rotor yoke assembly for specific serial numbers, TB 55-1520-242-30-01 is superseded by TB 1-1520-242-30-02, 091630Z Sep 91.

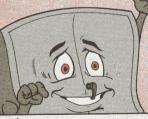
AH-64-91-05, SOF, Tech, AH-64A, Inspection of vertical stabilizer barrel nuts and bolts, 122100Z Sep 91.

If you store flammables, you're authorized flammable storage cabinets by Table 60 of CTA 50-909.

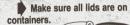
You'll find a wealth of cabinets-all shapes, sizes and colors-listed under Federal Supply Class 7125 on the Federal Item Identification List.



Here are a few tips about safe storage of flammables:



Although there is no requirement to ground storage cabinets, you must ground and bond containers of flammables when you're pouring from one container to another.







JAN 92

Safe Storage for Flammables

Don't exceed the maximum storage capacity of a cabinet. A cabinet's capacity is determined by safety, not by the number of containers it will hold



Paint should not be stored in the same cabinet with petroleum, oil or lubricants. Give paint its own cabinet. Some units store paints in inside cabinets and petroleum products in outside storage.



Cabinets indoors should be located away from areas where sparkproducing tools or equipment are used and where heat, fumes and gases build.



Cabinets outdoors should be located at least 50 feet from combustible structures.

No smoking signs should be posted and enforced. The area should be kept clean of weeds and debris.



Before your new cabinet arrives, bone up on the info in the National Fire Code 30. Flammable and Combustible Liquids, and AR 420-90. Your safety office will have copies as well as be able to tell you about local regulations.



JAN 92

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Maintenance



DEAR MSG HALF-MAST,

HERE ARE SOME SOLUTIONS TO MAINTENANCE
PROBLEMS THAT SURFACED DURING FIELDING OF
THE AN/UYQ-43 (V)1 AND (V)2 TACTICAL COMPUTERS.
WE'D LIKE TO SHARE THEM WITH YOUR
PEADERS READERS.

MANEUVER CONTROL SYSTEM-NEW EQUIPMENT TRAINING TEAM FT LEAVEN WORTH, KS

THANKS FOR SHARING THE FOLLOWING COMPUTER MAINTENANCE TIPS:



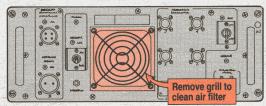
1. CLEAN THE AIR FILTER.

Your power conversion equipment cannot operate right if the air filter is dirty.

Check the air filter every week. Of course, if your workplace is dusty, you'll need to check the air filter more often.

If the air filter is dirty, clean it using these instructions:

- Turn off computer power using procedures in Para 2-24.2 in TM 11-5895-1348-12-1 for the Tactical Computer Processor (TCP) and Para 2-21.2 in TM 11-5895-1371-12-1 for the Analyst Console (AC).
- Remove the four screws, lockwashers and flat washers from the fan grill.
- Remove the grill and filter from the front panel.



- Clean the filter with detergent, NSN 7930-00-926-5280.
- Rinse the filter with clean water and let it dry.

Make sure the filter is completely dry before you put it back in the equipment. Moisture does a number on computer circuits.

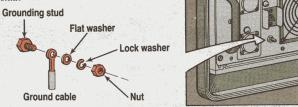
• Replace the grill securely with the four screws, lockwashers and flat washers.

2. MAKE SURE EQUIPMENT IS GROUNDED.

If the power conversion unit's not grounded, the whole computer's not grounded. Generator surges or nearby lightning strikes can enter your commo and destroy the equipment—or you.

To ground the equipment, remove the nut, lockwasher and flat washer from the ground stud on the front panel of the power conversion equipment.

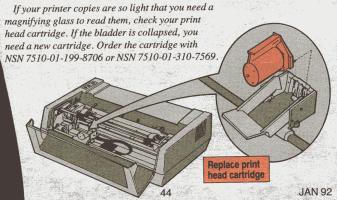
Connect ground cable, NSN 6145-00-066-8640*, to the grounding stud.



Replace the flat washer, lockwasher and nut on the stud and tighten nut. Connect the other end of the grounding cable to the clamp on ground rod, NSN 5975-00-224-5260. Procedures for grounding are covered in Para 2-7.1 in TM 11-5895-1348-12-1 (TCP) and Para 2-7.1 in TM 11-5895-1371-2-1 (AC).

*NSN not on AMDF. Order replacement cable on DD Form 1348-6 from S91.

3. REPLACE PRINT HEAD CARTRIDGE WHEN NEEDED.



Follow the instructions in Para 3-9.4 of TM 11-5895-1348-12-1 (TCP) and TM 11-5895-1371-12-1 (AC) to remove the cartridge. The instructions for installing the new cartridge are in Para's 3-9.5 and 3-9.6 of the same TMs.

BE CAREFUL! The ink on the cartridge contains diethylene glycol. If you get ink on your hands, keep them away from your eyes and mouth.

4. KEEP TAPE UNIT HEAD CLEAN.

Your computer's tape drive needs to be cleaned weekly to stay in shape. Clean it more often if you keep getting data errors.

Paragraph 3-10.4 of TM 11-5895-1348-12-1 (TCP) and TM 11-5895-1371-12-1 (AC) gives the

cleaning instructions for the tape head and capstan.

Be sure to use only foam swabs, NSN 4920-01-243-0571, to clean the tape head. Cotton-tipped swabs or facial tissues can scratch the tape heads. Use only cleaner, NSN 5835-00-885-3818, on the tape head to prevent contamination. This NSN is not

on the AMDF. Order on DD

Form 1348-6 from S9E.

abs,

Clean tape head

AN/PRC-127 Battery Pack NSN

Use NSN 6140-01-274-0835 to get the nickel cadmium battery pack for the AN/PRC-127 radio set. The NSN is wrong in Appendix D of TM 11-5820-1048-24&P.

JAN 92

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RL-31 Reel Unit...

hissing NSNs Uncovered

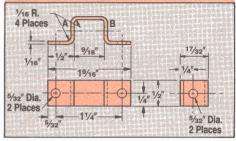


Item	NSN				
Bracket screws	5305-00-984-6193				
Bracket lockwashers	5310-00-045-4007				
Bearing cap	3130-01-290-6377*				
Cotter pin	5315-00-839-2325				
Latch rivet	5320-00-209-3936				
Latch	5340-01-289-8842				
Latch spring	5360-00-233-3780				

*Order on DD Form 1348-6. In remarks column put "NSN not on AMDF."

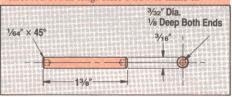
There is no NSN for the bracket, the hinge pin or the bracket rivet, but you or your support can make them.

For the bracket, use a piece of V_{16} -in thick \times V_{2} -in wide steel that's 3 inches long. Here's how to make it.



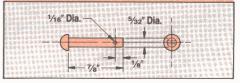
When finished, cut off any excess length.

For the hinge pin, use a piece of 3/16-in diameter steel rod 13/8-in long. Here's how to make it:

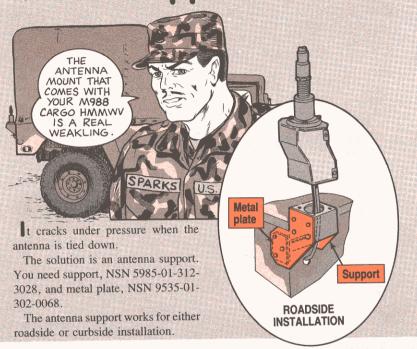


For the bracket rivet, order a $\frac{1}{2} \times \frac{7}{8}$ -in rivet, NSN 5320-00-209-3936.

Drill a 1/16-in diameter hole through the rivet 1/8 inch from the headless end.



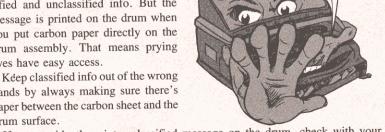
Mount Support Needed



Drum Security

he AN/UXC-7 lightweight digital facsimile is used to transmit both classified and unclassified info. But the message is printed on the drum when you put carbon paper directly on the drum assembly. That means prying eyes have easy access.

hands by always making sure there's paper between the carbon sheet and the drum surface.



If you accidently print a classified message on the drum, check with your security folks on how to send it to support for cleaning.

JAN 92 48

HEY, NOW!

NO PEEKING



Lubricating and Servicing Units...

Alternate to Alternators

When the generator on the engine of your lubricating and servicing unit goes bad, you can't get another generator. It's obsolete and no longer available.

Replace bum generators with an alternator kit.

For lube and service unit, NSN 4930-00-935-4451, use alternator kit, NSN 2920-01-266-0709.

On lube and service units, NSN 4930-00-548-2766 and 4930-00-842-8315, use alternator kit, NSN 2920-01-271-6205.

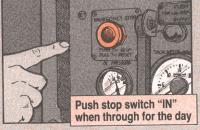


350 GPM Pumping Assembly...

Stop Switch Off?

The 350 GPM pump has no light to indicate when the emergency stop switch is ON. When the switch is pulled out—it's ON. If you shut down and leave the switch ON, the battery will run down!

So always check the emergency stopswitch when you're through for the day. If it's pushed in, it's OFF!



JAN 92

Rivet Repair

Tentage repair kit, NSN 8340-00-262-5767, doesn't have everything you need to repair the aluminum frame tent, NSN 8340-00-951-6419.

Here's what you need:

Item	NSN	Qty
Wrench, box and open end	5120-00-228-9505	1
Punch, drift	5120-00-240-8898	2
Tweezers, craftsman	5120-00-293-0149	2
Screw, hexagon head	5305-00-068-0501	50
Nut, plain, hexagon	5310-00-761-6882	50
Washer, lock	5310-00-582-5965	50
Pin, quick release	5340-01-237-7685	10

USE
APPENDIX A
OF CTA 50-970 AS
THE AUTHORITY TO ADD
THESE ITEMS TO BRING YOUR
TENTA GE REPAIR KIT
UP TO SPEED.



Latrine Screen Scene



There is no manual covering the latrine screen, but the components are available.

Here are the items that make up the screen:

Qty	ltem	NSN 8340-00-	
1	latrine screen	237-8749	
16	16-in wood tent pins	261-9750	
1	7-ft ridge pole	188-8393	
2	9-ft ridge poles	188-8394	
7	7-ft tent poles	188-8407	

Rustproofing



I mmersion heaters tend to rust during storage.

Here's how to rustproof them before you store them:

- Wipe away any grease or moisture.
- Scrape off loose paint with a wire brush.
- Use touch-up paint on exposed areas. Paint only the parts listed in your heater's technical manual-either TM 10-4500-200-13 or TM 5-4540-202-12&P. Get a 5-gal can of primer with NSN 8010-00-161-5718 and a gallon of olive drab paint with NSN 8010-00-297-0585.
- Use solvent, NSN 6850-00-664-5685, to clean the heater body, hanger, hanger screws, and the outside of the fuel tank. After the solvent dries, apply corrosion preventive compound. Get a gallon of compound with NSN 8030-00-251-5048.

Use lube oil on the smoke pipe.

Wrap grease-proof barrier paper, NSN 8135-00-224-8885. around the burner.

Remember to flush out the lube oil with a little clean fuel before using the tank again. If you leave the oil to burn off with the first tank of fuel, it will smoke. Coat inside of fuel tank

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JAN 92



USE THIS LIST TO ORDER LAMPS AND PUBS FOR YOUR MICROFICHE READERS.

Model	NSN 6730-	Manual DGSC-6730-	Lamp NSN 6240-
	RS/PRINTERS		
Bell & Howell RP 550 Spacemaster	00-116-1620	7	00-409-8295
Bell & Howell ABR-610	00-116-1620	13	00-409-8295
Canon 370T-D	00-116-1620	16	00-409-8295
· ·	IEWERS		
Washington Scientific Ind 1114D	00-116-1618	3	00-449-6003
Micro Design 1200	00-116-1618	6	00-409-8295
Micro Design 990	00-116-1618	9	01-084-3571
Eye Communication System Inc COM4000	00-116-1618	26	01-270-5998
MPF Co 4601-01FPG	00-116-1618	29	01-289-2805*
Topper Micrographics FNT 14	00-116-1618	20	01-200-0797
Bell & Howell Commuter Model**	01-080-7932	None	00-389-4822
Bell & Howell Commuter Model with Battery Pack (Discontinued)	01-080-7933	None	00-389-4822
Bell & Howell Commuter Model 1379 (Overseas use only)	01-055-5066	23	00-389-4822
Micron XL-10	01-080-1188	28	01-270-5998
Micron 700	01-080-1188	12	01-115-3067
Micron 750	01-080-1188	12	01-115-3067
Topper Micrographics COM 75X	01-080-1188	19	PN 80204 DJT
Northwest Microfilm Inc 14	00-116-1618	10	PN 55426 5542
Opticon 24-48	00-116-1618	14	PN 80204 EW.

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Microfiche Reader Supplies

Use these NSNs to get toner and paper for your viewer/printer.

Model	Toner NSN	Paper NSN
Bell & Howell RP 550 Spacemaster & ABR-610	6850-01-011-4937 (1-qt bottle)	7530-01-009-5861 (11-in wide roll)
Canon 370T-D	6850-01-135-3125 (six 1-qt bottles)	6750-01-135-5599 (8½ × 11-in sheets) (1000 sheets per box)

CTA 50-909 is your authorization to order viewers or viewer/printers. Get the TMs by writing to . . .

> Commander DGSC

ATTN: DGSC-SDA

Richmond, VA 23297-5000

*Lamp, NSN 6240-01-289-2805, is not on the AMDF. Order it on DD Form 1348-6 using RIC S9G.

**Local purchase item. If not obtainable through local purchase, order from S9G



JAN 92

JAN 92

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Overshoes Give

THE GREEN VINYL
OVERSHOES (6/0) YOU WEAR
TO PROTECT YOUR FEET FROM MUD AND
WATER ALSO PROTECT YOUR FEET FROM NBC
THREATS, CHECK THESE APPED
ADVANTAGES OVER THE CHEMICAL
PROTECTIVE FOOTWEAR COVER.

- **✓** Better protection
- **✓** More durable
- **✓** Better fit
- ✓ Easier to put on and take off
- ✓ Less likely to snag on brush and such

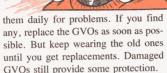
But there are a few things you need to remember if you wear GVOs for NBC protection:

You can't use the same GVOs for foul weather protection that you use for NBC protection. The NBC GVOs must be kept in like-new condition if they're to be effective. Get a second pair for bad weather.

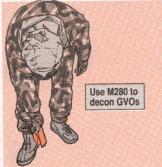
✓ GVOs provide at least 12 hours of protection after NBC contamination. You can wear them up to 24 hours, but with slightly less protection.

✓ GVOs can be worn up to 14 days and still provide protection during NBC attack...as long as they have no cracks, tears, or punctures. Inspect





✓ Use the M280 individual equipment decon kit to decon GVOs. But



even then you may not be able to decon them completely. Have the GVOs checked with a Chemical Agent Monitor, M8A1 alarm, or M9 detector paper before you take off your MOPP gear. If they're still contaminated, decon them as best you can before you take off your MOPP gear.

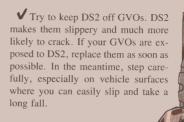
JAN 92

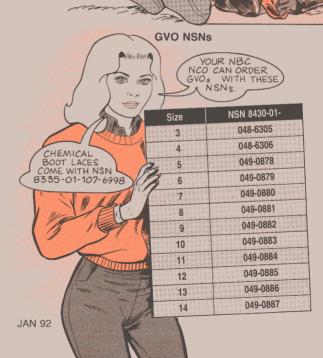
NBC Protection

THAT WAS

SOME

FALL/





Optical Insert Care

soldier who can't see well enough to tell friend from foe will not last long on the battlefield. And that's the fix the guys with bad eyes will be in if you NBC NCOs don't keep your eye on these M17 optical insert requirements.

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ID all the members of your unit who have vision problems. If they don't already have optical inserts, make sure they go to the local optical clinic ASAP to get some.

Keep a list of those who use optical inserts and update it when people leave or join your unit.

When your unit returns from the field, eyeball all the inserts for broken lens and frames. Get inserts replaced, if necessary, at the clinic.

If you have an insert like the one below, and the insert pins won't stay in the mask holes, try this:

Carefully flare the two top prongs of the insert slightly up with needle-nose pliers. Flare the bottom prongs slightly down. Push each set of prongs together so that they fit in the mask holes. The insert should be in to stay.

IF THE
LENS OR FRAME IS
BROKEN, REPLACE
THE INSERT.
IF THE INSERT
WON'T STAY IN THE
MASK, FLARE THE
PRONGS SLIGHTLY
UP AND DOWN.

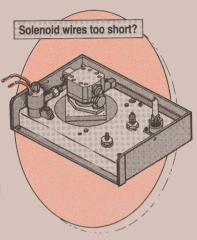


Parts Smarts



If the O-rings go bad in the quick-disconnects for the air compressor hoses, there will be a bad seal and the air compressor won't shut off. Instead of ordering new quick-disconnects, order new O-rings, NSN 5330-00-702-7217.





Fabricate new ones with these parts:

Part	NSN	
Terminal	5940-00-283-5280	
Splice	5940-00-186-2877	
Sleeve, insulated	5970-00-954-1622	
Wire, electrical	6145-00-161-1609	

The fog oil hose is too heavy. Its weight causes it to kink and cut off oil to the generator. You can order an elbow to support the hose with NSN 4730-00-023-5163.

Wiring Help

If you're having trouble understanding the wiring diagrams in TM 3-1040-279-12&P, help is available in a pamphlet, "System Explanation by Wire Schematic." If you need a copy, write Half-Mast



Supply Excellence Awards

Here are the winners and runners-up of the FY91 Army Chief of Staff supply excellence competition:

ACTIVE ARMY TO&E UNITS

Company

Winner-536th Maint Co (DS), USARPAC, Schofield Barracks, HI Runner-Up-2d Maint Co (TMDE), USAMC, Waegwan, Korea Battalion

Winner-307th Sig Bn, USAISC, Waegwan, Kotea Runner-Up-25th S&T Bn, USARPAC, Schofield Barracks, HI

ACTIVE ARMY TDA ORGANIZATIONS

Company

Winner--Electronic Proving Ground, USAMC, Ft Huachuca, AZ Runner-Up--HQ, Korean Svc Corps, Eighth Army, Seoul, Korea Battalion

Winner--10th Area Spt Gp, USARPAC, Torii Station, Okinawa Runner-Up--701st MP Bn, TRADOC, Ft McClellan, AL

ARMY RESERVE TO&E UNITS

Company

Winner--HHC, 172d Spt Gp, Fifth US Army, Broken Arrow, OK Runner-Up--HHC, 332d Civ Affairs Gp, USARPAC, Ft DeRussy, HI Battalion

Winner--3d Bn, 75th FA, Fifth US Army, Springfield, MO Runner-Up--478th Eng Bn (CBT) (CORPS), Second US Army, Ft Thomas, KY

ARMY NATIONAL GUARD TO&E UNITS

Company

Winner--3622d Maint Co, PAARNG, Lancaster, PA Runner-Up--696th Maint Co, NCARNG, Kingston, NC Battalion

Winner--4th Bn, 178th FA, SCARNG, Georgetown, SC Runner-Up--3d Bn (CHAP) 200th ADA, NMARNG, Belen, NM TDA Company

Winner--East ARNG Avn Tng Site, PAARNG, Ft Indiantown Gap, PA Runner-Up--HQ, WV STARC (-), WVARNG, Charleston, WV

60 JAN 92

CUCV, HMMWV Hose Clamp

The fuel injector fuel return hose clamp you need for your truck is NSN 4730-00-150-6118. It replaces NSN 4730-01-163-7194. Make a note until Item 2 in Fig 9 of TM 9-2320-280-20P; and Item 12 in Fig 16 and Item 2 in Fig 8 of TM 9-2320-289-20P are updated.

M901A1 ITV Lens Adapters

Here are the NSNs you need to get the tank periscope lens adapters shown on Page 5-158.1 of TM 9-2350-259-20:

NSN 6650-01-343-4169--night sight lens adapter

NSN 6650-01-343-4170--day sight lens adapter

These adapters have connectors that let you secure them to the launcher assembly so they don't get lost as easily. Make a note of these NSNs until the M901A1 ITV parts manual is updated.

Fire Extinguisher Pin, Chain

Use P/N 35654 to get the pull pin and chain assembly for 5-lb fire extinguisher, NSN 4210-00-270-4512. Order the assembly on DD Form 1348-6 by part number using CAGE 99539 from RIC S9C.

T158 Track Pad Kit Info

To get the 2-pad, 2-nut track pad kit for T158 track for M1-series tanks, use NSN 2530-01-295-3112. Fig 239 of TM 9-2350-264-24P-1 and Fig 234-1 of TM 9-2350-255-24P-1 both lead you to the NSN for the end connector kit, which is not what you need to replace worn-out pads. Make a note until your parts manuals are updated.

Aircraft Battery Box NSN

Order the battery box for Ni-Cad battery, BB-433/A, NSN 6140-01-046-1116, with NSN 6140-01-220-9344. Order the battery box cover with NSN 6140-01-221-9420.

RL-31 Cross Brace

The brace assembly is no longer available for the RL-31, RL-31B or RL-31C reel units. When the old cross brace breaks, check the can point for one. No luck? Order an RL-31E cross brace assembly, NSN 3950-00-127-1051, and frame assembly, NSN 3895-00-127-1040 to put the old components on.

M3 Bolt Locating Plate NSN

Armorers can now order the M3/M3A1 submachine gun locating plate with NSN 1005-00-535-1195. The locating plate is shown between Items 1 and 2 in Fig C2 in TM 9-1005-229-12 (Nov 69).

Ambulance Decal NSN

NSN 7690-00-138-5788 gets the M996 and M997 ambulance's caduceus decal. The NSN in the -20P TM is wrong.

Stock Funding HOTLINE

Managing your unit's stock fund dollars will soon be a way of life. Major assemblies will no longer be "freeissue" to field commanders. If you have questions on setting up the new Stock Funding of Depot Level Reparable (SFDLR) program in your unit, call the Customer Assistance Center on 1-800-343-4994.

Distribution: To be distributed in accordance with DA Form 12-34-C-R, for TB-43-Series

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