



roduces vital current to power his outlit's commo, refrigeration, lighting and shop equipment needed to maintain unit readiness.



avoids overloads, adjusts ventilating panels for proper cooling and runs at the correct RPM. perates at peak know-how. Knows his TM's operating procedures,



atches panel gages and controls to maintain governed output and correct frequency. On guard for dangers of dirt, overheating and generator tilt.



through neglect. matched voltages and flicient in hooking up parallel or auxiliary operations, assures frequencies. Heedful against shutdown



epairs quickly and with confidence. Uses TM's, stays within his MOS capability, coordinates major repairs with support to head off breakdowns.



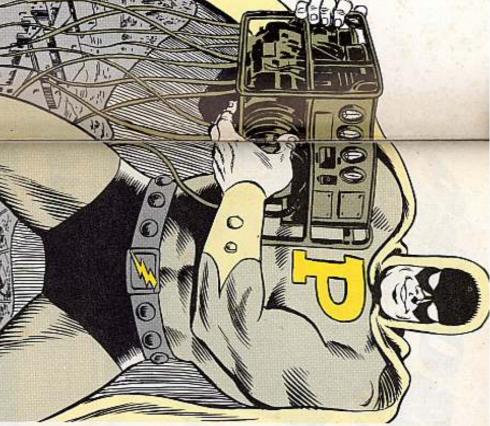
aintains his PLL, BILL, tools and manuals; keeps abraast of supply procedures; keeps up fuel, water and oil levels; deans filters; allows no leaks, loose connections, low batteries, crushed cables or bad fan belts



anticipated wear and trouble spots. conditions that need accelerated maintenance, constantly eyeballs the ttends to scheduled lube and maintenance services, alert to unusual

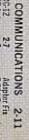


o one is more indispensable than the POWER MAN. Alone, watchful satisfaction is his when he knows he's the MAN behind the POWER too proud to goof off . . . trust and confidence is his due. Self-





1550c No. 194 1969 Series THE PREVENTIVE MAINTENANCE MONTHLY IN THIS ISSUE



AN, VRC-12 2-J AS-1998 Antenna 8 2-7 Adapter Fix 10 8 T-784 Transmitter AN/MFQ-4A 30-11



AIR MOBILITY



FIREPOWER 20-27

M50-M5 Libe 20-24 M14A1 Rifle 25 M102 Howltzer 26 3.5 in Rocket Launcher-MI 09 Howitzer MI 23A1 Hawitzer



M-Ton Truck M-Ton Truck 23/2 5-Ton Trucks GROUND MOBILITY 37-45 37, 37, 46 39, 49, 41 5-Ton Wrecker 4 MSS M48, MSD Tracked Vehicle Gasket 4 M11341 4 44 ää



MIG Wolder
Auf Restorer
ST 0A 24(8)

Hut Restorer
Hoteler Script
Health Script
Health Script
Health Script
Health Stript
Health Script
Health Stript
Health Health Stript
Health GENERAL AND SUPPLY



Use of fixeds for printing of this publica-tion has been approved by disapparities, department of the Army, 25 february 1988, DISTRIBUTION: In accordance with re-quirements submitted on DA Ferm 12-4.



Park Know, Ky DS Magazine. Sqt Half-Mast



BE YOUR OWN INSPECTOR...

How sweet it is!

set . . . when you take care of it. That's the AN/VRC-12 series radio

operator-type will keep things moving part of a package in a track, a good him preventive maintenance is needed. his way by watching for clues that tell Whether it's in a wheeled vehicle or

old age or the junk heap real fast. surges that can send a radio set into This'll guard against sudden power gine in a vehicle it's a partner with. radio gear is to turn it off when it's not in use, especially before starting the en-O' course, a real boost to a piece of

> or three pointers that'll tip you off to the set do its best for you, here are a couple To give a hand in helping that radio

need of better maintenance.

and should be taken care of pronto. The bold type items are real serious

THE RT-246 RECEIVER-TRANSMITTER

PUSHBUTTONS— Bind, dirty, won't work. DUST COVERS - Dirty, chain broken, broken. ANTENNA CONNECTOR — Loose, bent, DIAL WINDOW-Dirty cracked, broken. PANEL MARKINGS able, need paint Dirty, worn, unread-

Θ 0

BAND SELECTORS Loose, won't work.

broken, cover cracked. LAMP - Burned out,

HINGED COVER-Bent, missing; captive screws loose, missing.

to read, missing.

missing.

NOMENCLATURE PLATE - Dirty, hard



Ò

GASKETS - Hard, cracked, chipped.

KNOBS — Loose, bind, missing.

COVERS — Screws missing, dirty, scratched, need paint.

RETRANSMIT R

るを表

CONTROLS — Loose, bent, broken, missing; screws loose, missing.

COOLING VANES - Greasy, dirty,

TRANSMITTER

speaker.—Dirty, clogged, dented; screws loose, missing.

AGA!

We Got ONNECTORS



THE R-442 RECEIVER

broken; insulator cracked, broken.

CASE — Dirty, screws missing, needs paint.

CHANNEL DIAL — Dirty, glass cracked.

KNOBS—Loose, missing, broken.

0

ANTENNA CONNECTOR

— Bent, dirty.

LAMP-Broken, miss-

GUARDS—Loose, bent, broken.

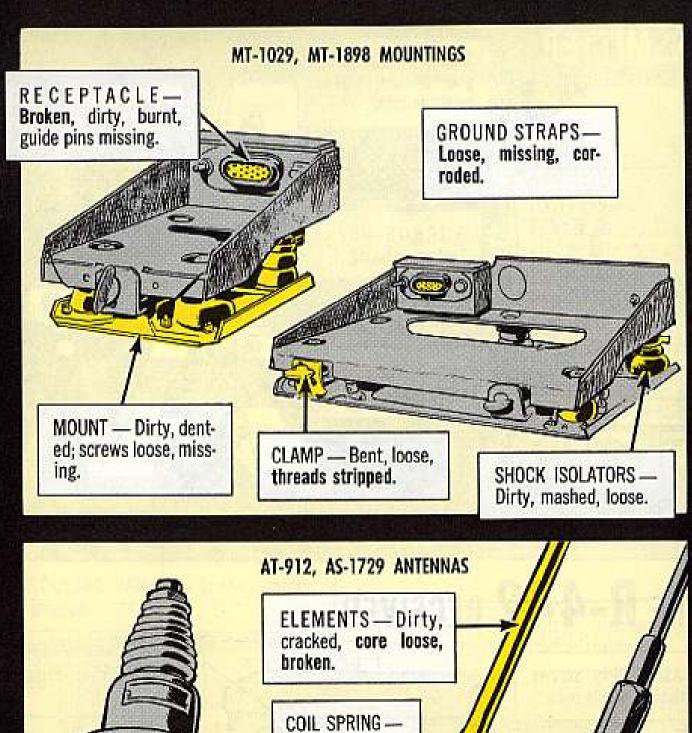
PLUG — Dirty, pins bent, broken.

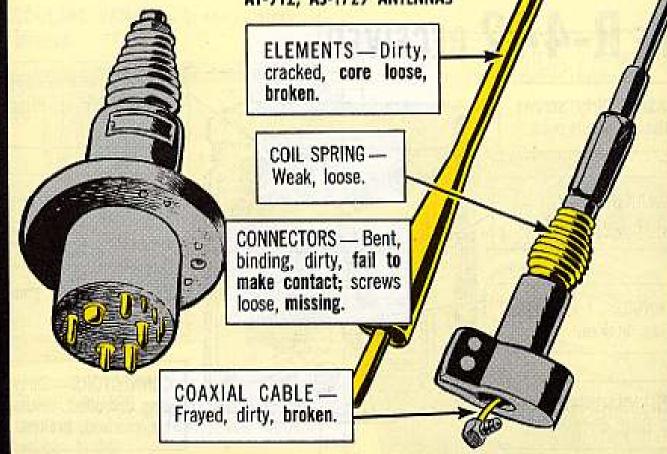
pins corroded, insulator cracked, broken. 9

BLOWER MOTOR — Noisy, binds, won't run; squirrel cage dirty, fins bent, wobbly, broken.



G





ELEMENTS — Dirty, broken; fittings painted, corroded.

BOWL—Cracked, loose, broken.

GASKETS—Hard, dirty, split, missing.

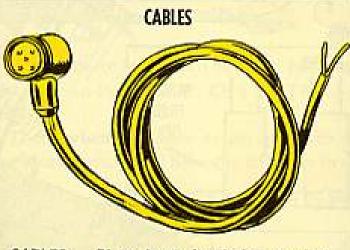
GROUND STRAP — Loose, missing, corroded.

ADAPTER -Loose, missing.



HERE ARE
THE PUBLICATIONS
THAT'LL GIVE YOU
A BIG HAND IN
CARING FOR
YOUR VICTORY-12

RADIO SETS!



CABLES — Dirty, hard, insulation cracked, pulled loose from connectors, connectors bent, pins broken.

LW 11-2850-401-10

CHANGE 1

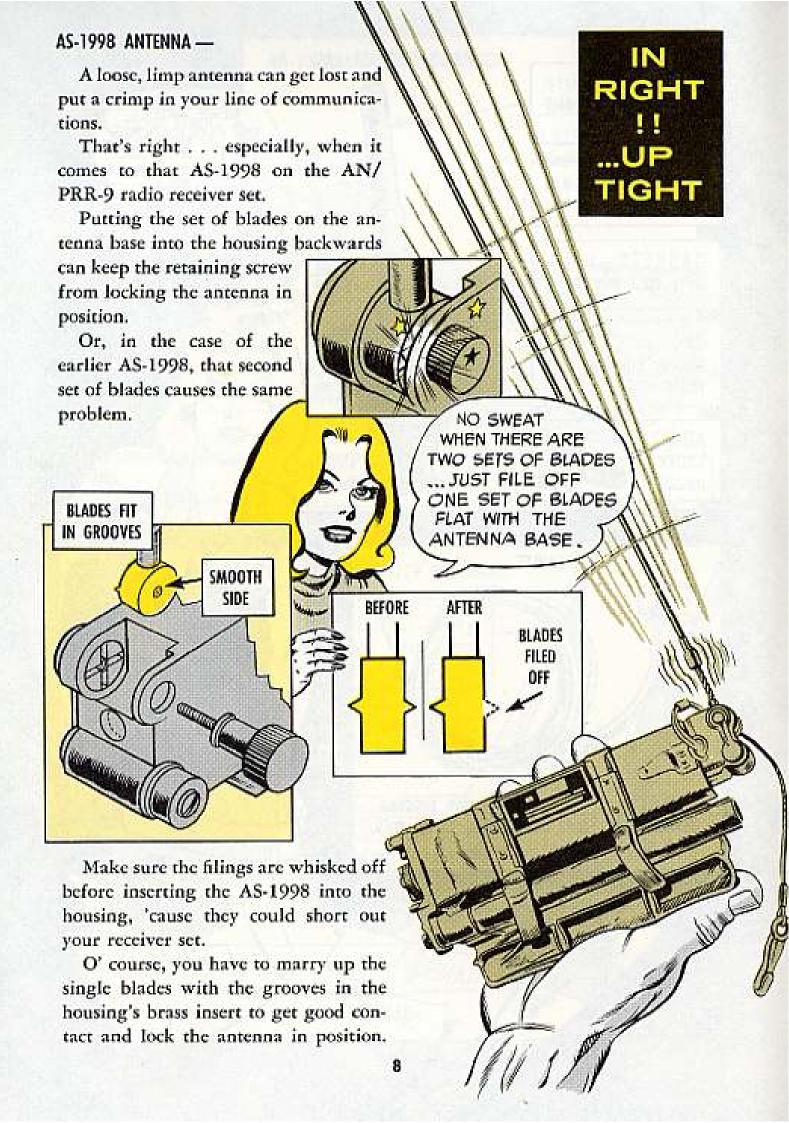
AB-15/GR MAST BASE

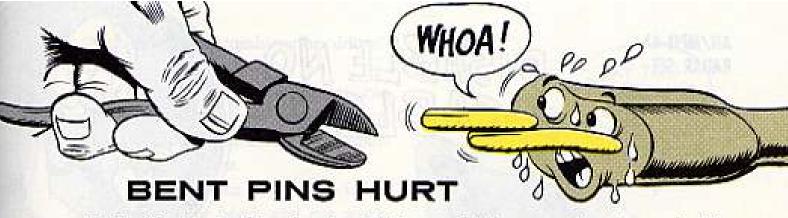
CHANGE 3

CHANGE 4

CHANGE 5

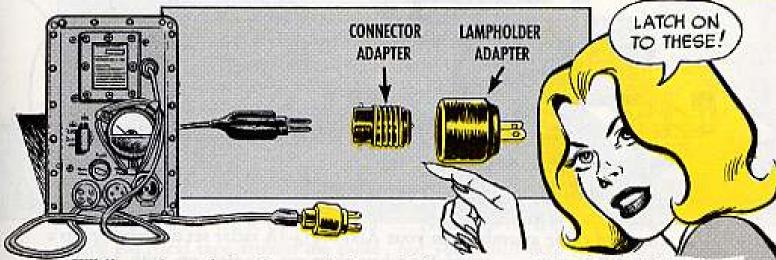
END





Back off with the dikes for that AC input cable's power plug pins on the PP-2685/GRC-109 power supply.

Before you wind up cutting one side of each pin, make sure you have a connector adapter (FSN 5935-199-1787) on hand. It's listed on Page 136 in Fed Cat C5935-IL-A, (Mar 68)



While you're at it, latch onto the lampholder adapter (FSN 6250-864-3330). The one on Page 115 of Ch 4 to TM 11-5820-474-14 (May 62) should read "6250".

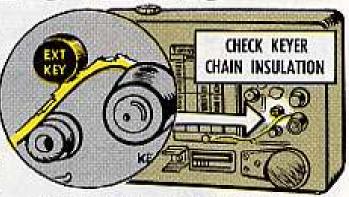
Then, when you have to change from the continental-type connectors to the American-type, you'll have the adapters to do it.

KEYER KEEPS KEYING

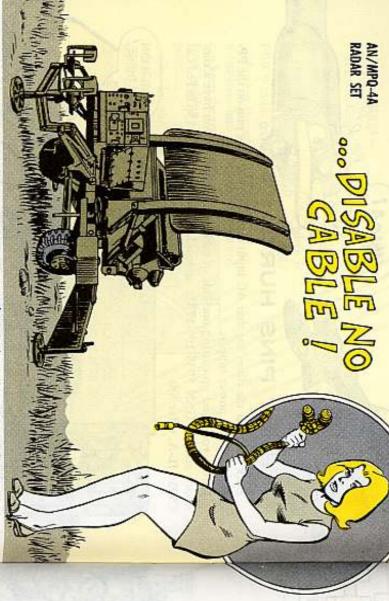
You say your T-784 transmitter on that AN/GRC-109 radio set keeps keying when you key 'er on a keyer hookup?

Your best bet's to eyeball that keyer cap and chain. 'Cause it could be the insulator on the chain is cracked or missin'.

This'll let the chain touch the EXT KEY and short out the transmitter, keeping that keyer keying constantly.



If the flexible metal chain's insulation sleeve is damaged or missing, get 'er replaced — or tape it up tight to keep the T-784 from keying all by its lonesome.



switches and generally goof up the detail. heap o' grief for you - especially when they get tangled up with interlock A couple of cable assemblies in your AN/MPQ-4A radar set can whomp up a

CP-319/MPQ-4A radar data computer. They're part of the C-2014/MPQ-4A power control power supply and the

both cases as the drawer doors are shut. lock switch, and the data computer cable gets cozy with the S-1005 switch, in The power supply cable can get involved with the S-1001 male-female inter-



Naturally, this combination doesn't

cause the cables to spread, become bare, wise damaged wires. and show up with mashed and other-The unscheduled togetherness can

CONNECTIONS:

TO PREVENT BENT OR

TRY THIS

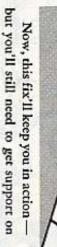
can break off, or bend, and not work. But there's a field-fix that'll keep you The male portions of the 2 switches

in operation:



mid-center. plastic electrical tape around the cable for about a 5-in stretch of the cable's Wrap double or triple thicknesses of

switch damage. your cable and help hold down wire and This'll strengthen the center area of



your MPQ-4A as soon as you can, for a

friction tape. It can catch and fray and permanent hx. pull on the switch bracket. Incidentally, better not try regular



TRAVEL MUD-GUARD





wise, there can be breakage of the mudduring the swing of the radar base . . . set's travel mud-guard (fender) bang guard at the weld points. well, that can be trouble, too. against the elevation depression meter the way down for the base travel. Other-Make sure the guard is positioned all Another thing: If you let your radar





WHEN YOU PULL THE BLACK BOXES ...

you "in the know." Gather 'round lads, for an in-country skull session - the kind that'll keep

cally un-repairable? Those wiring harnesses don't come cheap! ering black boxes from a downed bird can make the whole airframe economi-For example, do you know that cutting avionics wire bundles when recov-



the sets. ing the cannon plugs before you yank You won't lose any time by disconnect-So, never use dikes on wire bundles.



NGREDIEN.

POWERS MAGICAL

SAVE THE INSTRUMENTS

deserve tender lovin' care. The gyro instruments in your bird

strip the plastic gears. You know what that leads to? Early failure, man! Yanking out on the caging knob will Cage and un-cage those gyros gently,



using constant pressure.

12



RADIOS

by crewmen to keep radios in numbah-one shape. When it comes right down to it a lot of TLC is needed

Here's why. Right after engine start the generator kicks Keep the sets turned off before you crank up the bird

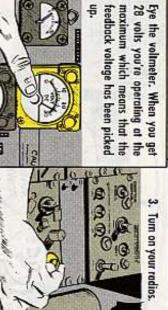
the radios. If the radios are turned on this "spike" will knock the delicate tran-

To keep your radios out of the repair van follow these simple steps

1. Crank up the bird

2

sistors for a loop. in to supply operating voltage. The excess voltage, tho momentarily, feeds thru the electrical system BEFORE RANKING OFF



4. Let the radio transmitters minutes to reduce unduc warm up for at least two stress on components.

かん かしょうし



Now, go ahead and key the clear.



ing thru loud and transmitter, man. You're com-



MAKE SAMPLING TOOL

valve and draw the sample. scribes, phillips screwdrivers, nails - you name it - to push in on the check boxes can be a bit of a problem. Once the chip detector is out, mechanics use Taking the 25-hour oil samples from the 42-degree and 90-degree gear

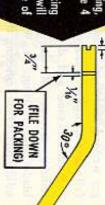
The result is sometimes a broken valve . . . what a revoltin' development!!

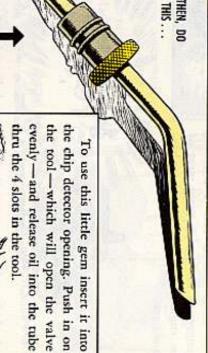
7

FSN 1560-923-4068, and cut off a piece 1/4-in diameter piece of aluminum tubin parts, latch onto a salvaged

1/8" (4 SLOTS)

keep oil from dripping down the outside of ring, FSN 5330-542-1420. File down a slot on the OD





sup the packing ring and a salvaged chip detector plug over the Slip the packing ube and



that old bugaboo, foreign object damage, in a new light. But enough of that cockamamie sampling tool. Step closer and let's consider

CHECK FOR CAUSES OF FOD

as on earlier engines. Model means an increased velocity air flow - thru the same diameter air inlet The increased output of the new T53-L13 engine in the HueyCobra and "H"

engine inlet area before and after every mission. Huey you crew, tho, one of your most important maintenance checks is to eye the So, you can see that FOD is even more critical on this baby. No matter what



Before you mount your charge, eye the soles of your jungle boots. Stones get wedged between the cleats and can fall into the engine inlet area.

Sure, the sand and dust separator reduces erosion of the compressor blades and housing. It won't keep solid objects from entering the engine, tho.

A stone sucked into a churning compressor can make mince meat of the engine for real!! Keep those bro-





Look over all areas, especially forward and above the engine inlet for material that can ruin the engine.







See that all nuts, bolts, screws, washers, dzus fasteners and latches on the sand and dust separator are tight.

After you pull maintenance remember that good housekeeping helps prevent FOD.

To stop safety wire, cotter pins and other hardware from going into the separator during rotor head and engine inlet maintenance, cover the separator. Canvas or even a large towel will do the trick.

Before you remove the covering, police-up the area. Remember that rags and tools left behind will also KO an engine.

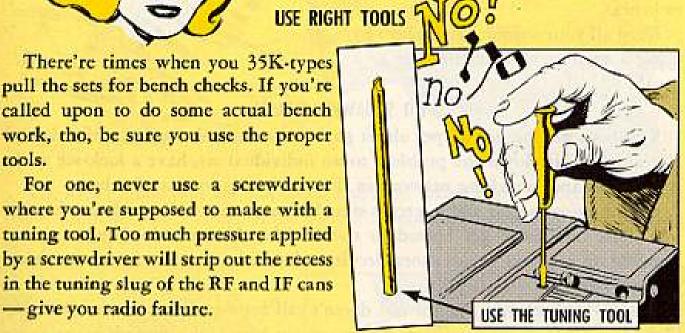


NOW, HERE'S SOME SPECIALS FOR YOU HOT RADIO REPAIR TYPES!

There're times when you 35K-types pull the sets for bench checks. If you're called upon to do some actual bench

tools.

For one, never use a screwdriver where you're supposed to make with a tuning tool. Too much pressure applied by a screwdriver will strip out the recess in the tuning slug of the RF and IF cans -give you radio failure.





Never let anyone who doesn't know the difference between a radio set and a tool box handle your avionics gear. He's liable to toss your radio in the back of his deuce-ana-half. After a bumpy ride to support the set will need more than just a bench check!!

KEEP SETS CLEAN

With the cargo doors off the Huey, dust gets whipped right inside the bird. The console really takes it on the chin with gummed-up gear trains and shorted-out components.



Signal distribution panel, C-1611A/AIC, really catches dirt. Keep the panel clean by using a soft-bristle brush or compressed air (25-28-PSI maximum). Otherwise, you'll be replacing umpteen switches.

Keep all your avionics gear clean by using a vacuum cleaner, air hose or a brush.



NO SQUAWKS, PLEASE!

You been getting any gripes about garbled transmission or reception lately? If you can't pin down the problem to an individual set, have a look-see at the A-16 impedance matching network in the communication junction box.

All the avionics gear and intercom signals funnel thru these pads on the console. Dirt can really get booted in there. Add the corrosion that's always showing up and you've got short circuits—intermittent operation... complete failure.

TM 11-1520-210-20 (12 Jul 66) doesn't call for a pullout time for these babies. Depending on the conditions where you are, better take the pads out and give 'em a cleaning. Some outfits do it on a 100-hour Periodic.

Clean the contacts with a suitable cleaning solvent like Inhibisol. Page 4.65 of Fed Cat C6800-IL (1 Jul 67) lists the solvent. FSN 6850-582-1647 will get you a gallon can at two bucks a throw. Apply it with a lintless cloth.

IF CORROSION REMAINS ON THE PAD CONTACT
PINS... TAKE IT OFF BY USING NO. OOOC SANDPAPER.
FINISH IT OFF BY USING CROCUS CLOTH.



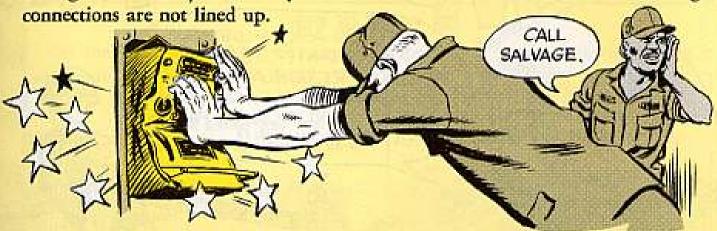




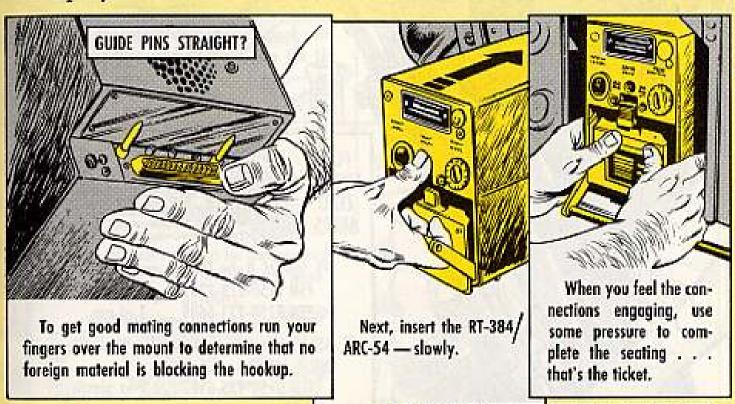
Be sure not to overlook the receptacle in the junction box. A burnishing tool, such as CT-265, will get rid of the corrosion. Compressed air (10 psi or less) and a soft-bristle brush will take care of dust and dirt in resistor and capacitor assemblies.

PUT 'EM BACK GENTLY

Putting radio sets back in the mounts correctly is mighty important. You'll damage the RT-348/ARC-54 if you ram it home in the mount when all the mating



The metal guide pins are soft metal and bend rather easily. A bent pin means you'll probably push out one of the 3 co-ax antenna connectors in the mounting and put your set on the blink.



Fact is, proper mating of all your avionics connections is mighty important.

To prevent damage to cannon plug contact pins be sure to mate up the guide pin with the slot in the receptacle. No off-centers, please!

Yessir-e-e-e, remember that TLC, lads. It goes hand and glove with preventive maintenance.







ON MOVING PARTS ... AND FIGHTS RUST 'N' CORROSION ON PARTS SO IMPORTANT ??... BECAUSE THAT DON'T MOVE! WHY, YOU ASK, IS LUBING



PL Special (Lube Oil, General Purpose) FSN 9150-231-6689 . . . 1-qt can. FSN 9150-273-2389 . . . 4-az can;

LSA (Lube Oil, Weapons Oil Medium MIL-L-46000A) FSN 9150-935-6597 . . . 2-oz plastic

FSN 9150-889-3522 . . . 4-oz. plastic

FSN 9150-687-4241 . . . 1-qt. can. FSN 9150-753-4686 . . . 1-gal can

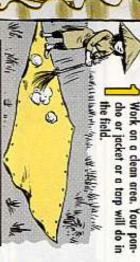
BELOW-ZERO LAW (Lube Oil, Weapons)

FSN 9150-292-9689 . . . 1-qt. can

20

HOW TO DO THE JOB

when and how you can. Period By the book, that's how - if you possibly can. In combat, natch, you do it





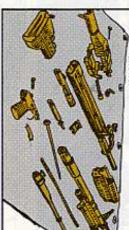
Don't force anything. Eyeball each part for damage and



rod for inside areas. surfaces with it, using your cleaning on a dean swab, wring the swab out till it's just moist, then wipe all parts and PL Special and LAW — Pour some

Let the oil run over these parts the bottle on the parts that require it. LSA — Squeeze a couple drops from





dean rag or swab Wipe 'em good and dry with



Apply the lube, carefully. Don't miss any spots. miss any spots.



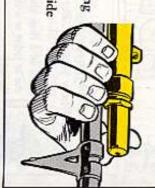
metal it's aiming to protect. before you put PL Special on the other parts. This way the LSA's bound to be dosest to the to put the LSA on the parts that need it Tip: In areas where you use LSA it's smart

Put your weapon and mount back together and function-check 'em to make sure everything works OK.

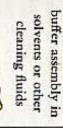




out of the gas when cleaning the cylinder topside the barrel with cylinder by holding cleaner and oil bore



NEWER dunk the buffer assembly in solvents or other cleaning fluids







GUIDE

ALL PARTS OF YOUR M60 GET LAW IN BELOW ZERO AREAS. THIS GOES ALONG PARTS COLORED GET PL SPECIAL

LSA ONLY ON

WITH THE DISASSEMBLY AND LUBING DOPE IN PARTS COLORED GET LSA TREATMENT IN ABOVE ZERO AREAS. TM 9-1005-224-10 (NOV 67).





forearm assembly.

CHILDRENGERICA

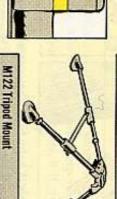
Barrel Assembly with Bipod Assembly

PL Special: All other parts

ANT



Buffer Assembly and Operating Rod Assembly PL Special: All other parts.



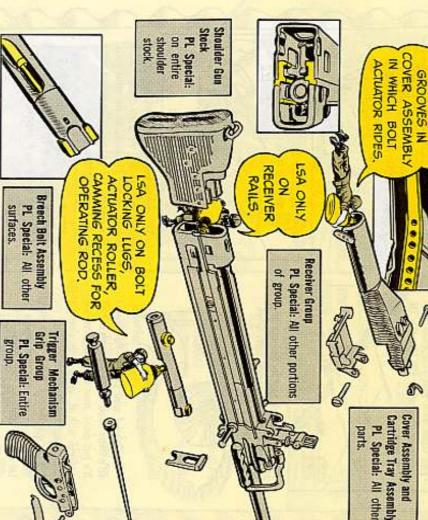
ROD ROLLER, AND SURFACES JUST BELOW THE YOKE

C

THAT RIDE WITHIN THE RECEIVER RAILS

LSA ONLY ON OPERATING

PL Special: on surfaces, 2 parts and





FIRE AWAY WITH LSA

Y'know that note at the top of page 20 in your M60's -10 TM... the one that says to put a light film of MIL-L-46000A lube—LSA—inside the gas cylinder and piston of your weapon after cleaning or inspection only if your gun's seldom used or is stored in the arms room?

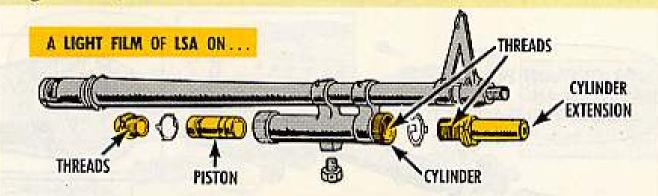
Well, forget it.

From now on put that light film of LSA inside the gas cylinder and gas piston of all M60's in hot, humid areas—whether you're fighting with it every day or resting it in the arms room.

And don't worry about firing off with the LSA in there. The first round or two you fire will burn it away . . . safely.

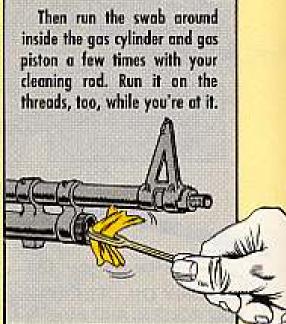
The big thing is to get a light film of LSA on these parts.

When you've got the gas system apart and cleaned and inspected according to the good book, do this:



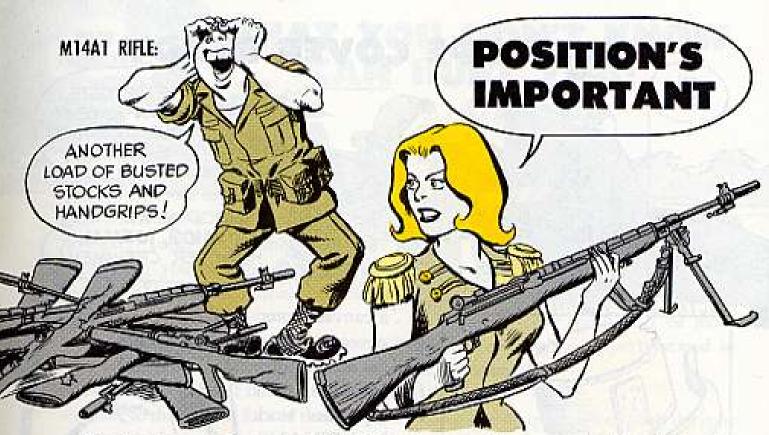






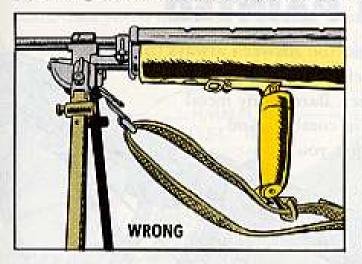
This'll help fight the corrosion that's bugging M60 gas systems in 'Nam.

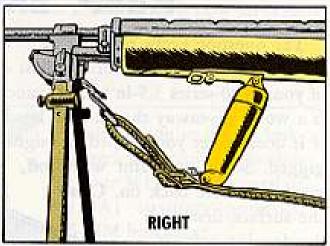
One thing you never want to forget, though: Using LSA like this won't ever excuse you from cleaning and inspecting the piston and cylinder to keep corrosion from taking a hold.



Maybe a few words on the "why" for where and how you should position the handgrip assembly on your M14A1 rifle will help prevent some of the busted stocks and hinges that've been haunting some outfits . . .

F'rinstance, when you do it the right way—with the second hook on the sling through the rung on the bottom of the handgrip . . . and the handgrip slightly forward in the unlocked position . . . and the sling dead tight from the front (bipod) swivel end to hold the handgrip this way—you've got it made.





This way any blow at the handgrip will be deflected by the sling or the sling will absorb the shock through its webbing. Also this set-up will keep you from yanking back too hard and busting the hinge when firing. Besides, it'll give you better muzzle control during automatic firing.

On t'other hand, if you have the handgrip straight down and locked and leave the sling loose or allow metal-to-metal contact between the handgrip and the base, any blow to the handgrip will likely bust the stock above the handgrip.

So-oo-o!

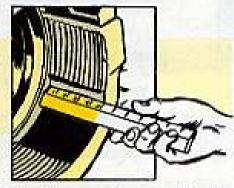




Yep! The old saying is all wrong. If you don't know how your M126E1 howitzer tube is assembled to the breechring you can get hurt and the weapon is sure to be permanently damaged.

Every time the tube or cannon assembly is removed or replaced, check on the distance from the rear face of the howitzer tube to the outside face of the breechring.

If this distance is over 5 inches, call your direct support and don't fire your weapon until it's fixed. NOT OVER FIVE INCHES



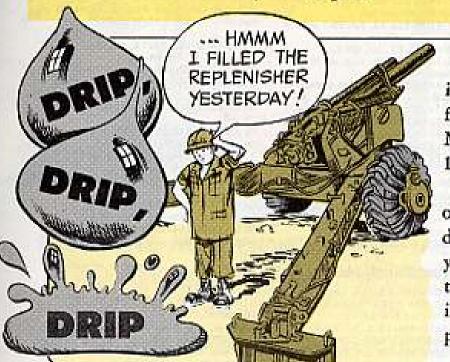
Because if the distance is over 5 inches it means the tube could be 1 or more threads from being properly seated in the breeching.

So what?

So if the weapon is fired with the tube not seated, the obturator will not make a perfect seal and there'll be blow-by which is sure to ruin the equipment and might ruin you.

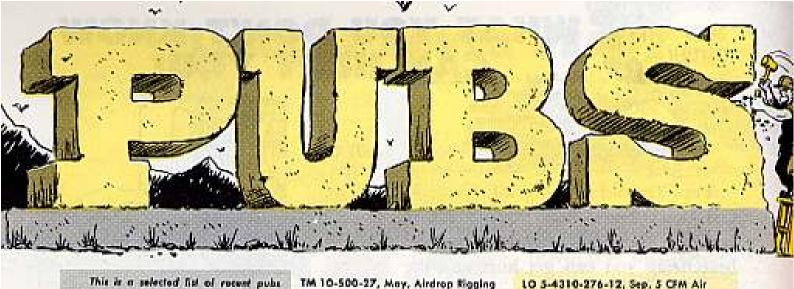
HAPPY LIGHTING

You're right . . . the lamp housing for your M1 collimator goes on the fritz more than you'd like it to. The latest word is that the housing is now an organizational repair part. It goes under FSN 1240-066-7095. You'll find it listed in the newest -20P TM on your weapon.



You say you've got oil leaking from the recoil mechanism for your M114-series towed or M123A1 auxiliary propelled 155-MM howitzer?

If you fill the replenisher one day and the oil level is down halfway 24 hours later, you've really got a leak. It's time for your support unit to inspect the mechanism and possibly repair or replace it.



the AN/TPS-33 Rador Set.

TM 10-1670-206-23, C2, Oct. Aerial

This is a selected list of recent pubs of Interest to organizational registe-nance personnel. The list is compiled from recent AG Distribution Centers Bulletins. For complete details ree DA Pais 310-4, Ch 5 (Feb 68), TM's, TB's, etc.; DA Pom 310-6 (Aul 68), and Ch 1 (Oel 68), SC's and SM's; DA Pam 310-7 (Jul 68), MWO's.

TECHNICAL MANUALS

TM 1-0H23-5, Aug. OH-23. TM 1-10H-23C-24P C1, Sep. OH-23. TM 3-1040-257-20P, Sep, M9E1-7 Part Flamethrower, TM 3-4230-209-12 C1, Sep, M12A1 500 Gal Decen App. TM 3-4240-258-14 Cl Sep. M17A1 CBR Field Mask. TM 3-6665-268-10, Sep, Sempling Kit CBR Agent M34. TM 5-2410-214-12, Jun, Trocked Medium Tractors. TM 5-3610-235-13, Sep, Hydrorelic Clamp Paper Cutter. TM 5-3610-237-13, Sep. Printing and Repro, TM 5-3610-283-13, Sep. Wire Siliching Mach. TM 5-3740-206-15, Aug. Insecticide Sprayer Skid Mtd GED 40 Gai/Hr Fog. TM 5-3805-219-20P C4, Sep, Earth Moving Equip Looders. TM 5-3805-219-35P C4, Sep. Dir/Gen Spt Earth Moving Equip Loaders. * TM 5-3805-239-12, Jul, DED Loader TM 5-3810-289-15, Jul. DED 1/4 Ca Yd 12 1/2 - Tan Crawler Mid Crane-Shovel. TM 5-3825-221-15, C1, Sep. Woler Distrib. TM 5-3895-210-12P, C2, Sep. Batching Plants. TM 5-3895-210-35P, C2, Sep. Dir/Gen Spt Batching Plats. TM 9-1005-213-10, Jul. M2 .50 Cal. Browning Mochine Gun and Mounts TM 9-1005-249-12, Aug. M16 and M16A1 3.56-MM Ritle. TM 9-1005-303-14, Jul, 12-gage Winchester Sholgen MdI 1200 Riot Type 20 in Barrel. TM 9-1425-500-20, Jul, Hawk TM 9-1430-516-12, Aug, Hawk, TM 9-2320-244-10, Aug, M715 I 1/4-Ton Cargo Truck and M725 1 1/4-Tan Ambulance Truck. TM 9-2350-300-ESC, Jul, XM163 20-MM SP Antioircraft Artillery Gvs. TM 9-6920-425-14, C2, Sep. Redeye. TM 10-275, Jul, Cold Weather Clothing and Steeping Equip.

Deliv Equip. TM 10-1670-213-23, C2, Sep. Aerial Deliv Equip Pers Parachute. TM 10-1670-213-23P, C2, Sep, Pers Parachute. TM 10-1670-219-23P, C2, 5ep, Pers Parachute. TM 10-1670-224-23, C2, Oct, Pers Parachyle Aerial Deliv Equip. TM 10-1670-225-23, C2, Oct, Pers. Parachule Aerial Deliv Equip. TM 10-3930-215-25P, C1, Sep. Co. Forklift Truck. TM 10-4930-203-23P, Cl., Sep. Petroleum. TM 10-8340-205-23P, C1, Sep. Tents. TM 10-8415-202-13, C2, Sep, Flying Helman. TM 11-1520-217-20P, 54p, CH-54A. TM 11-2300-369-15-1, Sep, Instal of Telephone Sets TA-312/PT and TA-1/PT with Reel Equip CE-11 in XM167 20-MM AAA Gun. TM 11-5820-535-25P, Sep. AN/TRC-110 Radio Set. TM 11-5820-767-12, Aug. AN/URC-68 Radio Set. TM 11-5821-259-20, Jul, AN/ARC-114 Radio Set. TM 11-5826-227-20, Aug. AN/ARN-89 Direction Finder Set. TM 11-6730-233-15, Jul. P5-1 and P5-1-K Still Pic Viewer. TM 55-450-3, C1, Jul, UH-1. TM 55-1500-323-25, Aug. All Fixed and Rolar Wing. TM 55-1510-203-20PMD & 20PMI. Avg. U-6.

LUBRICATION ORDERS

TM 55-1510-203-20PMP, Aug. U-6.

TM 55-1510-204-10, C10, Sep. OV-1. TM 55-1510-204-20, C4, Oct. OV-1.

TM 55-1510-204-20P, C1, Sep. OV-1. TM 55-1510-205-20PMI & -20MPM,

TM 750-199, Avg, Procedures for

TM 750-209, Jul. All Rolor Winn.

Redeployment and Retrogradation of

Acfi Components Spare Parts and Spt

Equip [Class II (A) and Class IV (A)

Aug. U-1.

Supplies).

10 3-1040-241-12, Sep. Compressor Recip 50 CFM 3,000 PSI M6-18 Ingersoll-Rand Mdl 68518. LO 5-2420-206-12-2, Jul, Tractor Whild Indus DED, MED, DBP. LO 5-3895-215-12, Jul. 165 Gol GED Kettle Heating Bituminous,

LO 5-4310-276-12, Sep. 5 CFM Air Compressors. LO 5-4310-334-12, Jun, 175 PSI, 25 CFM Elec Recip Air Compres Receiver LO 5-4320-252-12, Aug. 100 CPM Diophrogm Recip Pump Less Mil 51d LO 5-5274, Aug. 150 KW and Up Eng Driven Gen Sets. LO 5-6115-440-12, Jul, GED Gen Sel 7.5 KW, DC, 28Y. LO 5-6115-456-12, Aug. 150 KW and Up Eng Driven Gen Sel. LO 9-2320-246-12, Jun, M274/ 274A1 Light Weapons Corrier. LO 10-4930-206-12, Aug. Lubricoting and Servicing.

MODIFICATION WORK ORDERS 9-1000-218-30/5, Sep, M107 Gun and M110 Howitzer. 55-1500-206-30/2, Oct, Instal of Stainless Steel Cable in Lieu of Tie Rad in Stabilizer Bar Extension Tubes UH-18-1C-1D-1H-1M. 55-1500-210-30/11, Oct, Deletion of Audio Padding from the Interphone Junction Box CH-47. 55-1510-201-30/1, C1, Oct, U-B.

TECHNICAL BULLETINS

TB 55-1500-206-20/12, Oct, Imp of Tailrator Crosshood Bearing Retaining Not UH-1A-1B-1C-1D/H and UH-10/M. TB 55-1500-206-20/12, C1, Oct. UH-1A-18-1C-10 AH-1G. T8 55-1500-206-20/13, Oct, Insp of Hydraviic Hight Control Assy UH-1A-18. UH-1D/H. TB 55-1500-210-20/3, C1, Sep. CH-47. T8 55-1500-210-20/4, Oct. One Time Insp of Farward Transmissions 11401001 Series CH-47A/CH-47B. TB 55-1510-209-20/6, Oct, Insp of the Lower Front Wing Altoching Bolts U-21 Acft. TB 55-1510-209-20/6, C1, Oct, U-21, TB 55-1510-209-30/1, Sep. U-21. TB 55-1520-214-20/22 Sep. Insp of Main Rotor Hub and Strap Pack Assy OH.AA.

TB 750-237, Jul. Ideal and Handling of Radioactive Items.

MISCELLANEOUS

\$8 700-20, Oct, Adopted Hers of Materiel and Army Reportable Items, TC 23-21, Aug. M2, 50 Cal Machine Gun and Mounts and M60, 7.62-MM Machine Gun and M122 Mount.

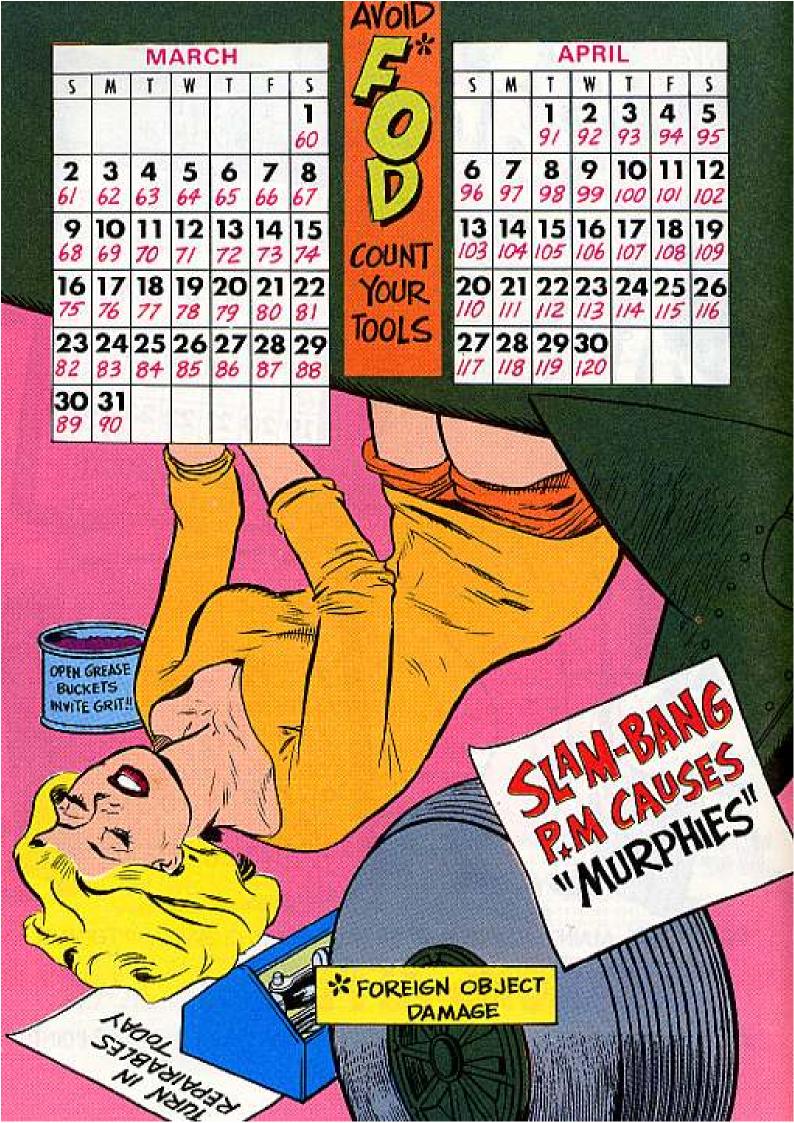


PREVENTIVE MAINTENANCE MUST BE TAILORED TO CLIMATE AND TERRAIN

CONDITIONS AFFECT



BATTERIES, COOLING SYSTEMS, ELECTRONICS EQUIPMENT AND LUBE POINTS







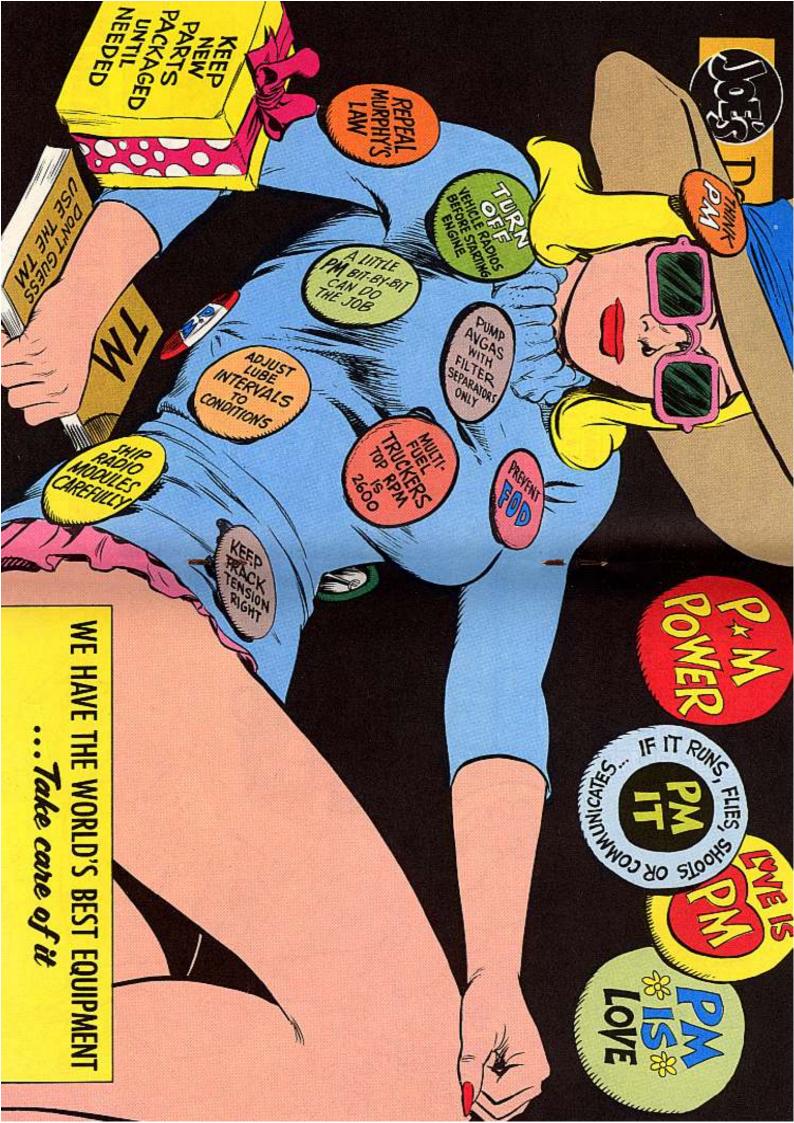
KEEP REPAIR PARTS STORED IN THEIR PACKAGES TILL USED!

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VEHICLES...
KEEP WHEEL BEARINGS
OUT OF THE WATER

11.11

DON'T LET SPIT 'N' POLISH HIDE REAL PM.



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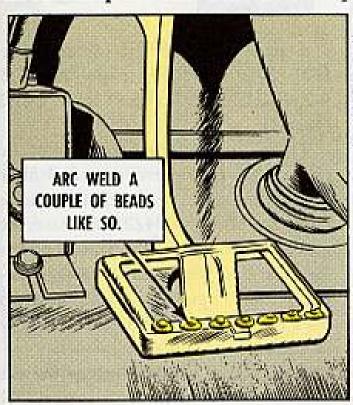
DRY GREASE POINTS MEANS TROUBLE MULTI-FUEL ENGINE HAPPINESS IS A CLEAN PRIMARY FUEL FILTER DRAIN AIR RESERVOIRS DAILY





A banana peel on a slick floor is no slipperier than the brake and clutch pedals on some vehicles — especially when the pedal surface is all metal, when the metal's worn down smooth and when you've got mud or snow on your boots.

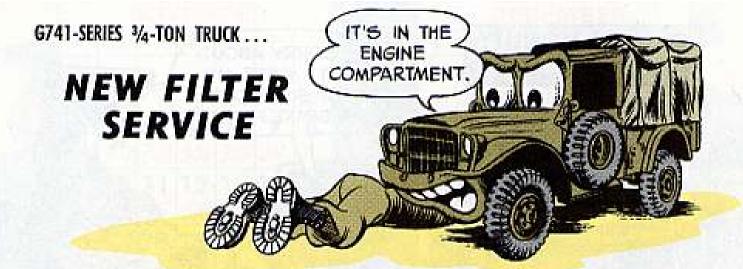
When you're operatin' a vehicle like a G838-series 1/4-ton or G741-series 3/4-ton truck, take care to clean the mud or snow off your boots before hoppin' in. And keep this stuff cleaned off the pedals, too.



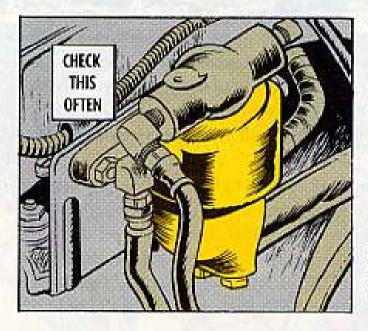
If your CO gives the OK, you can get extra insurance against slippery pedals by having little bumps are welded onto the pedal. Just across the leading edge of the pedal may be enough. This'll give your boots something to grab ahold of.



AR 385-55 (Sep 65), para 25, allows commanders to authorize "additional devices" for prevention of motor vehicle accidents — and you can sure have a dilly if your foot slips off the brake or clutch pedal at the wrong time.



You've got a new semiannual service on your M37B1 3/4-ton truck — or other G741-series vehicle. You do if you've got the fuel filter in the engine compartment.



Ch 9 (Jun 68) to TM 9-8030 tells you to replace that fuel filter element every 6,000 miles or every 6 months, whichever rolls around first. This new info goes in the how-to-do-it section of the TM (para 139), not in Table III where you find your other semiannual PM services. Fact is, those other semiannual services are pulled at 3,000 miles or 6 months, a shorter mileage factor than you've got for the fuel filter element.

But Table III still calls for cleaning

the sediment bowl of the fuel filter every 3,000 miles or 6 months.



A new filter element comes under FSN 2910-455-4033, page 21, TM 9-2320-212-20P w/Ch 1 and Ch 2 (Jul 64).

There's no reg'lar replacement of the element for the in-tank type fuel filter found in later production vehicles (after Serial No. 80042292). This filter gets service only if it happens to be out for fuel tank servicing or if you suspect the filter's giving you trouble. Then para 139c in TM 9-8030 tells you how to clean it.

If you need a new element for the in-tank fuel filter, it comes under FSN 2910-735-1316, page 24 in the -20P TM. This FSN has been exhausted to 2910-955-2010.

TRUCK RING MOUNTS

Dear Half-Mast,

Our TO&E calls for machinegun ring mounts on some of our 2½-ton and 5-ton trucks. In the "remarks" section of the TO&E, it just says "eqp w/ring mount."

There's no LIN or FSN or anything else to identify these ring mounts or to tell which ring mount goes on the 21/2-ton trucks and which one on the 5-tonners.

Where do we find this? Also, where's the info on maintenance and repair parts? SFC H. N. K.

Dear Sergeant H. N. K.,

Ord 8 SNL A-55, Section 50 w/Ch 1 (Oct 66), para 9, clues you in on the fact that both your G742-series 2 1/2ton and G744-series 5-ton trucks get the M36A1 machinegun mount.

This item is listed in SB 700-20 (Jul 68) under LIN M74364 and FSN 1005-317-2427.

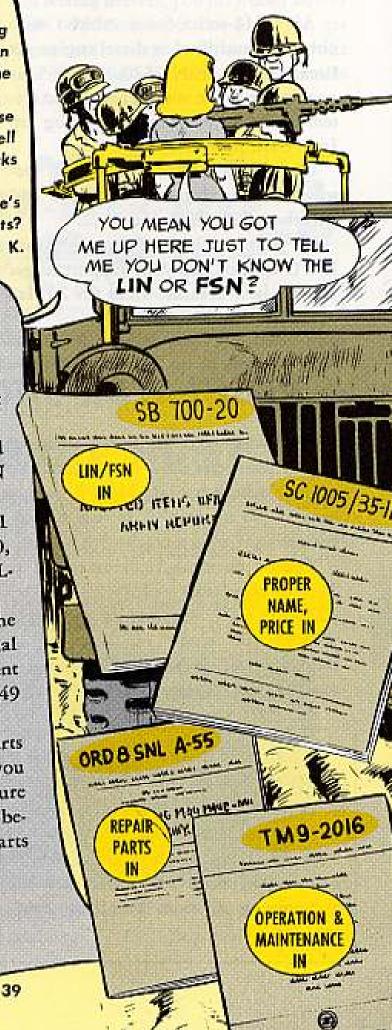
Its proper name in SC 1005/35-IL-1 (Jul 67) is Mount, Gun, truck, cal .50, M36A1 w/e. Price, in Fed Cat C-ML-A (Aug 68), is \$611.

TM 9-2016 w/Ch 1 (Jan 64), the TM for operation and organizational maintenance, tells you that a component of the M36A1 gun mount is the M49

ring mount.

Your support's guide on repair parts is Ord 8 SNL A-55, Section 50. If you get a new M36A1 mount, make sure your support gets the packing list, because it lists some new repair parts that don't show up in the SNL.

Half-Mast

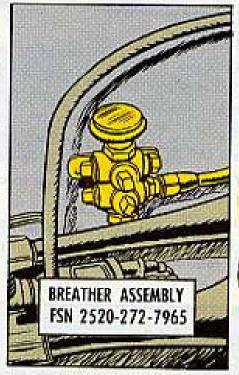


BREATHER FOR 5-TONNERS

All G744-series 5-ton vehicles with cither the multifuel or diesel engine get Breather Assy, FSN 2520-272-7965. It goes in the brake and fuel line vent system and prevents lines blowing up from back pressure.

Under MWO 9-2320-211-20/8 (rescinded) this breather replaced old Breather, FSN 2520-466-7518.

If your 5-tonner didn't get that MWO applied, ask your support to get you the new breather from Ch 2 (Mar 67) to TM 9-2320-211-35P.





REGULATOR SHOT?

Easy with your truck's generator regulator — even if your tests show it's no good. Your DS wants to doublecheck it to decide if it goes on the salvage heap — so no firin' it to 'em out of a cannon or even slingin' it in a truck with a lot of junk.

There's no more replacement of parts in those 25-amp regulators — FSN 2920-953-9784 or FSN 2920-335-4677 — used in most tactical wheeled vehicles. DS repair of those regulators is now limited to cleaning and adjustment. If that doesn't make it perk again, it's tossed.



NEW FOR M151

That's right—now it's 6,000 miles or 6 months for semi-annual PM services on your M151 or other G838-series 1/4-ton vehicle. The new word's in para 3-19, TM 9-2320-218-10 (Mar 68). This's a switch from the 3,000 miles or 6 months you see in TM 9-2320-218-20, but the -20 TM will be pickin' it up in a change or revision. You'll be seein' this 6,000 miles factor for some other vehicles, too.

DRIVER TESTER

If your outfit has a big job of training and testing drivers, you may need Driver Testing and Training Device, Portable, FSN 6930-526-3639. For \$172 you get from the U.S. Army Mobility Equipment Command a complete kit to turn recruits into wheeled-vehicle pilots: Books, reaction time and eye-testing gear, controls and all are included. You need 110V 60-cy AC to run it.



That's the signal to right that wrong FSN for Retainer, electrical contact: horn button cable contact. It's in Ch 1 (Nov 62) to TM 9-2320-212-20P under FSN 2920-626-0236, but it should be FSN 2590-626-0236. The right FSN shows up in Fed Cat C2590-IL-A (Apr 68) and will be picked up in the next -20P change or revision.

MULTIFUEL PUMP HUMP

If the in-tank fuel pump on your 2 1/2-ton or 5-ton multifuel truck is on the fritz, don't expect support to fix it. There's no kit to be had. Just get a replacement . . . but only after you've checked connections and made sure it's not just a loose wire.

Though some TM's say the pump is recoverable, forget it. Here's the late info on which of 3 new pumps goes with what vehicle:

PUMP	FITS			
FSN 2910-920-7545, P/N 10947358-2, Fuel Pump & Mount Assy	All 2½-ton multifuels except M275A1 and M275A2			
FSN 2910-920-7546, P/N 10947358-1, Fuel Pump Electrical & Hanger Assy	2½-ton Models M275A1 and M275A2			
FSN 2910-937-5076, P/N 10947358-3, Electrical Fuel Pump & Hanger Assy	All 5-ton multifuel models.			

The three listed here replace old standby FSN 2910-765-9594. See page 10, Ch 2 (Apr 67), to TM 9-2320-211-20P and page 27, Ch 3 (Sep 66), TM 9-2320-209-35P.

NO KNACK-JUST FULLY PACKED



You have to develop a lot of hand action to pack grease into a bearing. This takes experience — and elbow grease.

It doesn't really matter whether you develop an "old pro" knack for the wheel bearings in your vehicle, tho. There's a bearing lubricator, FSN 4930-704-1852, in the lubricating kit of your No. 1 and No. 2 Common Tool Kits.

This little gem does a good job of getting grease into every nook and cranny. That's because you're purging out the old and putting in the new with the pressure of a grease gun.



'Course if those bearings are real dirty you can clean them with kerosene, or dry cleaning solvent, before repacking.

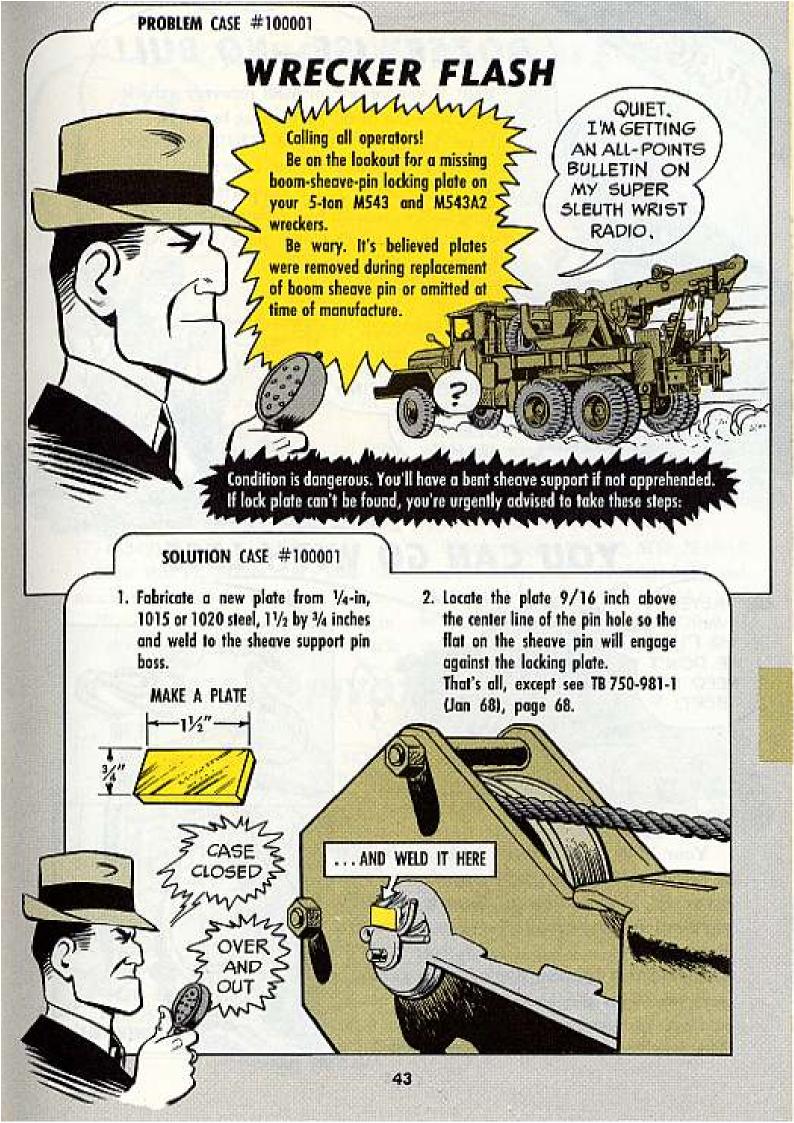


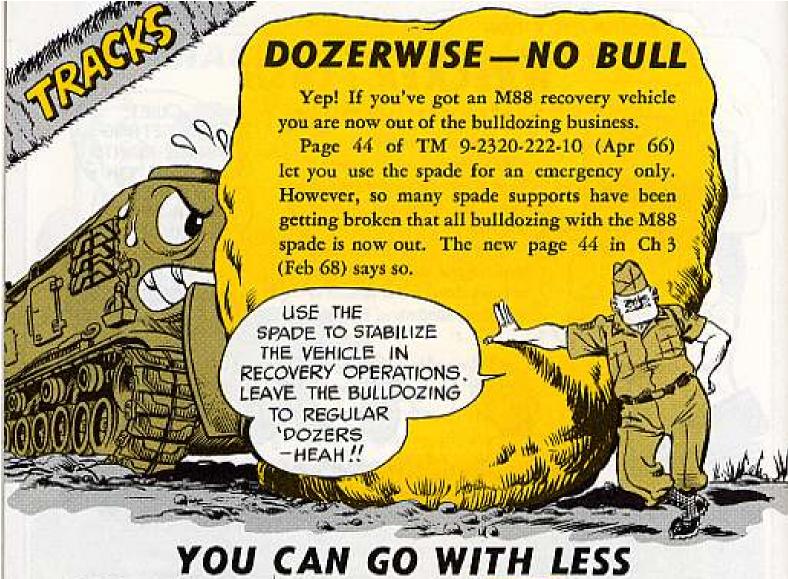
Be sure you never spin bearings during cleaning or drying because this action will scratch the bearing race . . . can ruin bearings in short order!!

> GIVE TM 9-273 A LOOK-SEE FOR MORE HINTS.

Dry the wet bearings by laying them flat on a wire rack or clean, lintfree cloth.





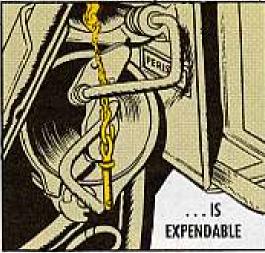


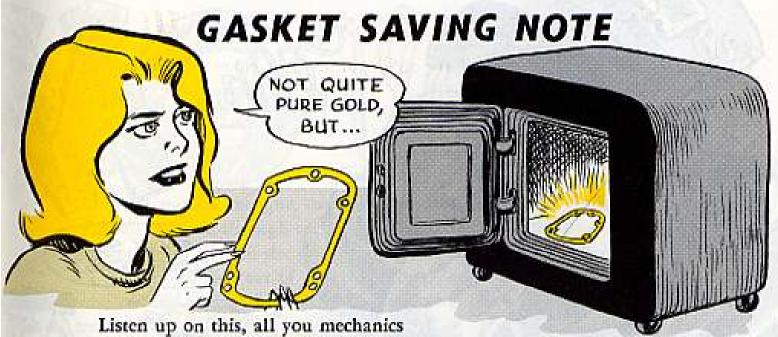


Your M48 or M60-series tanks might have a problem with the shell stop fastener pin assembly. You're likely to shear it off at the right or left hull ammo racks when you traverse the turret.

Should this happen, don't bother getting a new one. This pin and chain are not needed and you can remove 'em whenever you want. That way they won't cause you any trouble.







Listen up on this, all you mechanics who might remove the magneto on an M48A2 tank or other vehicle with a similar engine.

When the magneto (scintella) FSN 2920-593-6456 (7974215) comes off, there's a gasket with it, Gasket, magneto cover, FSN 5330-774-4849, (7744849).

Now this I'il gasket don't look like much so some mechanics throw it away.

Well, it turns out the homely lookin' I'il silver gasket costs your U.S. Uncle \$2.37 per which is just too much green to be throwing away.

So cut it out, hey! Include the gasket when you turn in the magneto to your support for repair on a DX deal. Result: Everybody happy and nobody will have to come up with the \$2.37.

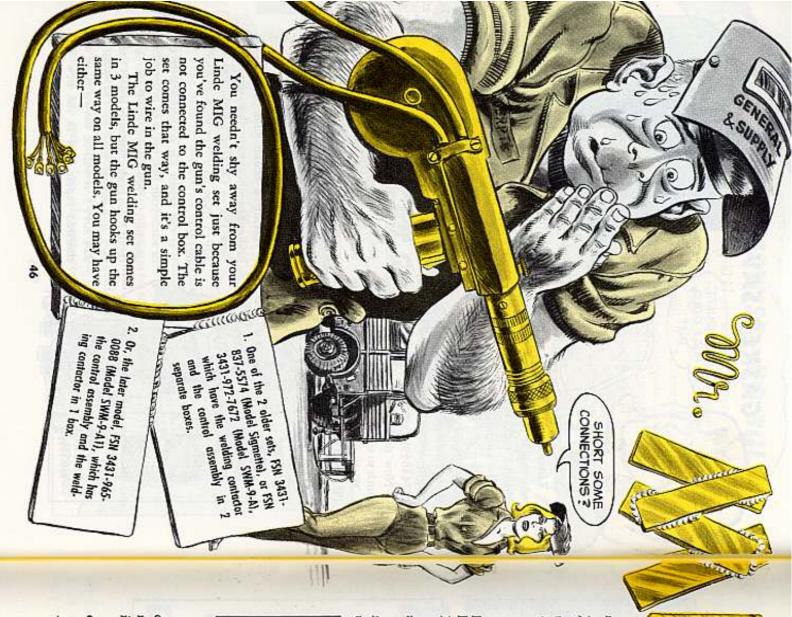
This applies to M41A3, M48, M48A1 and M48A2C tanks; M42A1, M53 and M56 self-propelled guns; M44A1 and M55 SP howitzers and the M8A2 tractor.

M113A1 PIVOT BRAKE KITS



Having a rough time getting the brake assembly parts kit shown on page 185 of Ch 4 to TM 9-2300-224-20P/3 (Nov 64)? Try FSN 2530-873-6912.

If the repair kit is temporarily out of stock your best bet is to order brake assembly FSN 2530-999-1998. Although this brake assembly is now listed as a non-supply item in TM 9-2300-224-20P/3, it will be shown as an authorized repair part in the new TM 9-2300-257-20P.





On all models the gun control cable (it's called gun switch cable in some manuals) goes in through a cable connector on the right side of the control box. All you do to wire in the gun is remove the terminal screws from terminal strip. Ti (located on the floor of the control box), hook up the right lead to the right terminal and anchor the leads with the screws. The leads are color coded and the terminal strip connections are numbered.

GUN CABLE CHECK

Two or 3 cables, depending on which set you have, are permanently attached to the gun. But the only gun cable you have to wire to a terminal strip is the gun control cable. For example:

The larger, black cable is the gun's welding power cable and it simply plugs into the control assembly.

On the older models the gun's ground cable also hangs from the gun. But, all you do with that cable is attach it to a terminal on the side of the control box.



OTHER WIRE-IN CONNECTIONS

On all models you also have to wire in the set's work pick-up cable.

On the 1-box model you also hook up the 115-volt cable.

And, on the 2-box models you also wire in the contactor cable.
We'll work those loose cables in as we come to 'em, so you'll have a good

SAFE/TIGHT CONNECTIONS

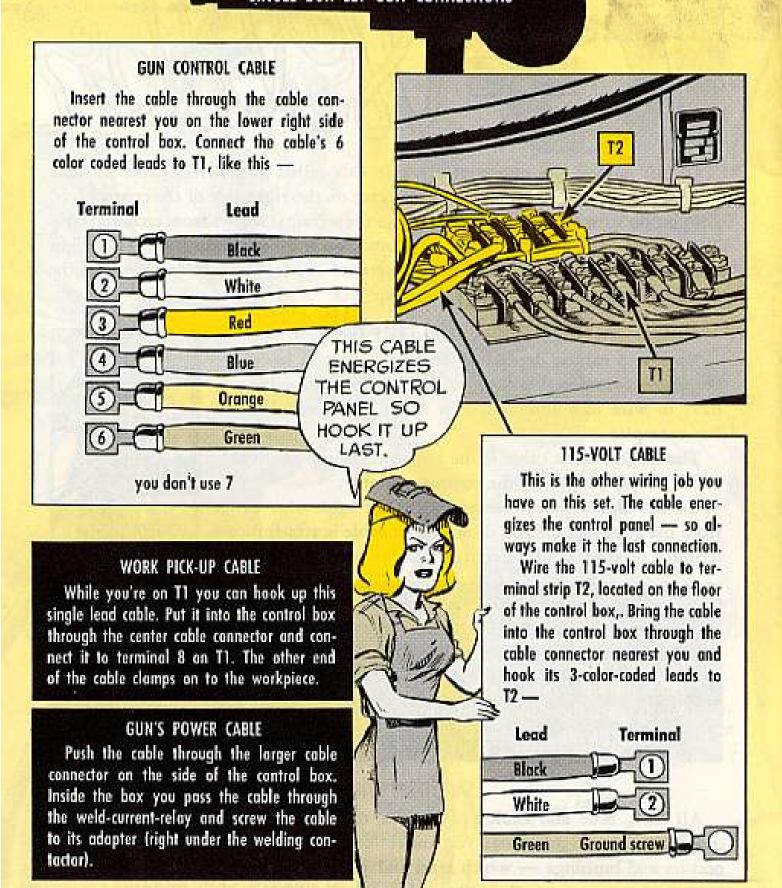
All lead, hose and cable connections must be good and tight. So check connections for tightness as you make 'em. Also, the waterproof cable connectors and bushings — which hold and protect the cables and hoses passing into the boxes — must be tight to help keep the boxes clean and dry.

And, first and foremost before you make any connections be sure the voltage-

OK — now that the prelims are out of the way . . . here's the \$\$\$\$ word on wiring the gun —

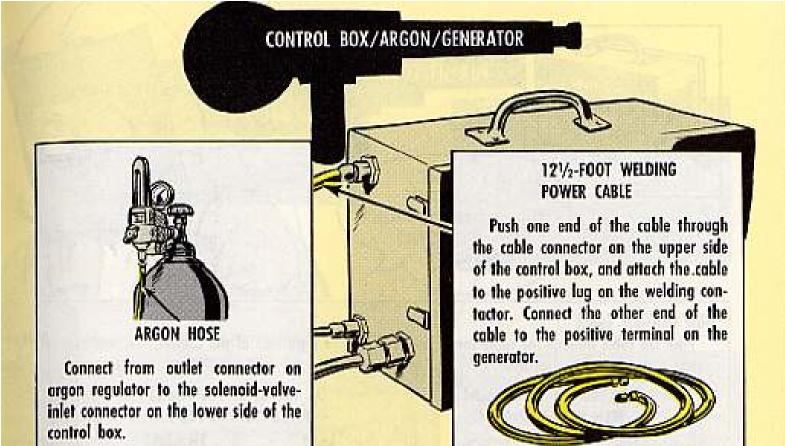


SINGLE BOX SET GUN CONNECTIONS



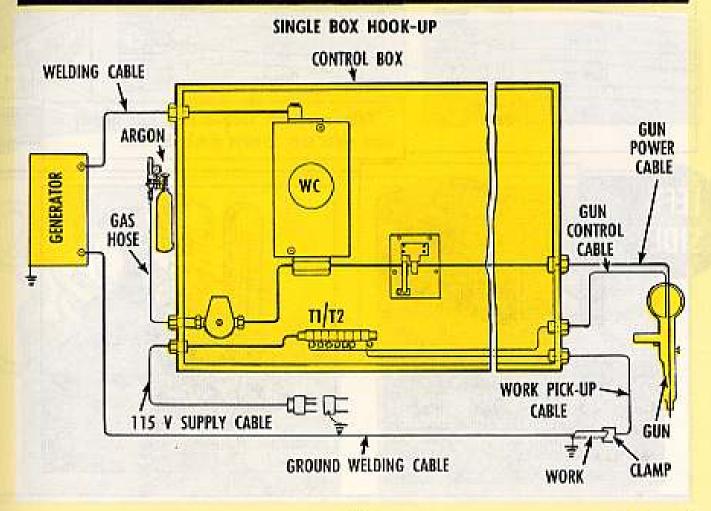
HOOK-UP ROUND-UP

Now on to the other wiring jobs and connections needed to get your single box MIG welding set working. All connections coming up (like the 115-volt cable) are on the left side of the control box.



GROUND WELDING CABLE

Connect from the negative terminal on the generator to a good ground on the workpiece.









2-BOX SET CONNECTIONS RIGHT

Attach to the ground terminal on the

WORK PICK-UP CABLE

of the control box and connect it to terminal 8 on T1. The other end clamps other cable connector on the lower end Pass the single lead cable through the

is equipped with a wing nut to hold the outside of the control box. The terminal

GUN CONTROL CABLE

GUN CONTROL CABLE YOU MAKE THE

CONNECTIONS FIRST.

connect its leads to TI, like this -

On the Sigmette mode (FSN 3431-837-5574)

On the SWM-9-A mode (FSN 3431-972-7672)

Termina

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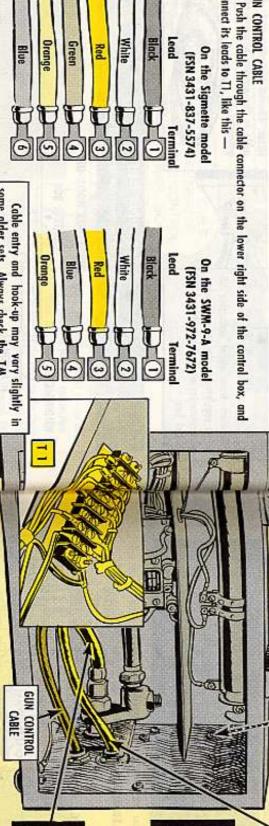
GROUND WELDING CABLE

Connect from the negative terminal

on generator to a good ground on the workpiece.

receptacle on the outside of the box Plug the gun power cable into the

GUN'S WELDING POWER CABLE



some older sets. Always check the TM Cable entry and hook-up may vary slightly in

Orange

Orange

ARGON HOSE

133

REGULATOR

121/2-FOOT WELDING CABLE

relay and attach the cable to the gun namer-cable terminal just inside the right side wall of the control box. power-cable terminal just inside pass the cable through the weld-current-Pass one end of the cable through the uppermost cable connector on the side the control box. Inside the box you

the right side of the welding contactor and connect it to the contactor's negathrough the center cable connector on

contactor, and attach the cable to the connector on the left, upper side of the welding

Pass one end of the cable through the con-

6-FOOT WELDING CABLE

end of the cable to the positive terminal on tactor's positive terminal. Attach the other

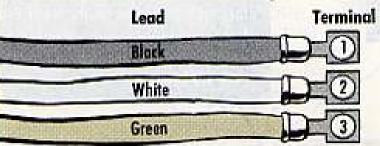
the generator.

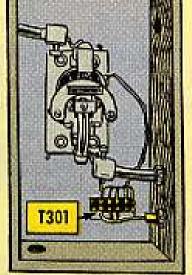


valve-inlet connector on the lower side the argon regulator to the solenoid-Connect from the outlet connector on

CONTACTOR CABLE

The cable comes attached to the center cable connector on the lower end of the control box. Push its free end through the cable connector on the lower, right side of the welding contactor and connect the cable's 3-color-coded leads to terminal strip T301 (located on the back wall of the welding contactor), like this —





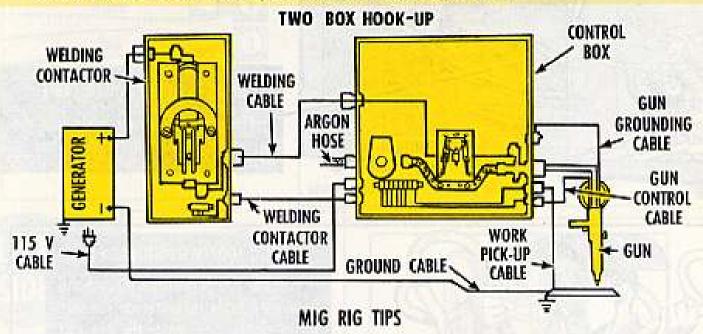
WELDING CONTACTOR

115-VOLT CABLE

On the 2-box sets you don't have to wire in this cable to the control box. It comes attached to the left side of the box, right next to the contactor cable. All you do is attach its 3-pronged plug to a 115-volt receptacle on the generator. Remember, this cable energizes the control box panel, so make it the last hook-up.

If you find the 115-volt cable isn't wired into the control box, you let support wire in the cable.

And, that's the last cable you have on this control box.



Remember, you need reverse polarity with MIG welding to get deeper penetration on the base plate, and to avoid burn back in the guide tube.

Check your generator's operating instructions for the reverse polarity setting.

The sets operate on 115-volt AC or DC power. When a generator isn't equipped with a 115-volt receptacle the cable can be hooked-up to standard 115-volt shop current.

On the Sigmette model (FSN 3431-837-5574, DA Contract 11-199-Ord-534), however, the 115-volt supply source must not be earth grounded or hooked up to either side (power or ground) of the welding power supply source.



Make sure the 115-volt power receptacle, or power cord adapter for the 115-volt cable, has a good electrical ground.

The flowmeter on the argon regulator tells you how much argon gas is going to the gun. And, the regulator's pressure gage tells how much pressure you have in the argon cylinder.

Treat the argon regulator c-a-r-e-f-u-l-l-y. Never yank or grab the regulator by the flowmeter tube guard.

Before installing the regulator, open the argon cylinder just a crack to blow off any dirt.

And, never stand in front of the regulator when you're cracking the cylinder valve.

Just before installing the regulator be sure the flow-adjust valve is turned (clockwise) off all the way.

When you're installing the regulator, cradle it in one hand and screw the inlet connector nut to the argon cylinder valve with the other hand. Tighten the nut carefully with a wrench.

The regulator must be installed with the flowmeter standing upright.





MOVING

When you're switching job locations disconnect the power and ground cables from the generator. And, coil all the cables for easy handling, cable protection . . . and your safety.

Disconnect the argon regulator from the argon hose and from the cylinder, and handle the regulator like fragile stuff.

It's OK to hand-carry the MIG set for a short way, but if your next job is a good way off, always pack the set in its shipping box. The box protects the set from damage, and makes it easier for lugging, loading and transporting.





PUBS



Keep your pubs handy. TM 5-3431-219-15 (Aug 65) for the single box set, TM 5-3431-208-15 (Jul 63) and the -25P manual (Jul 63) for the SWM-9-A set, and the Linde manual and parts list for the SIGMETTE set. And, of course, the pubs for whatever welding generator you've got.

NUT RESTORER

I've made a tool that will restore slotted type Dear Editor,

self-locking nuts to their original condition. I used a bolt on which the nut fits and drilled the head of the bolt so it would fit over the self-locking

end of nut to be restored. (You can also use a steel

bar and drill it with all sizes.)

If there's a rubber washer or "O"-ring around the top inside of the nut, be sure to check for deep cuts or breaks before restoring it. If it's bad, toss

Then you slip the tool over the self-locking nut out the nut. to be restored and tap it a time or two with a

You'll find these self-locking nuts on your vehihammer. cles. They're used especially where safety is a

factor, such as on drive shaft bolts. Richard H. Western Aberdeen Proving Ground, Md.



NEW HEATER SPRING

A switch in time may keep your Model BT 400-40 FSN 4520-792-8257, and BT 400-40-1, FSN 4520-930-9474, duct-type heaters in operation.

The spring, FSN 5340-940-7917, that's now on the engine exhaust rusts and you have to replace it often.

You can lick this problem by replacing it with a new corrosion resistant spring, FSN 5340-824-5267, manufac-

GET THIS **SPRING**



ture's code - 90598 Part No. TM 3955A.

TB 750-971-2 (Apr 68), EIR Digest, is your authority for ordering it until you see it in a change to TM 5-4520-208-25P.

NO BOLOGNA



Your Model S-4 Sanitary Scale Company meat slicing machine, FSN 7320-222-4176 and FSN 7320-222-4177, may be about to go on the blink because of a bad worm gear. Take it to your support and they'll replace the gear with a new one free of charge if your machine has one of the bad gears.

METER-TEST EACH OUTPUT POLE



You with that new battery charger — got a 2KW GE or Eagle, FSN 6115-075-9123, 12-volt?

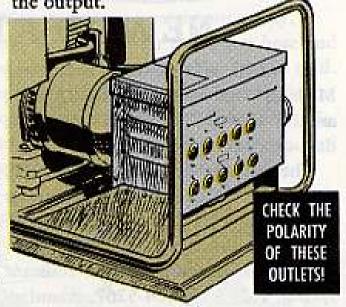
Before you hook up a bunch of batteries and ruin 'em, better check those outlet plugs for reverse polarity.

The trick is, have your radio genius or kilowatt custodian take a TS-352 meter, set it in the 50-volt range, and get a polarity reading — (any standard multimeter'll do).

If the outlets marked (+) turn out to really be (-) and (-) ones (+), you need a wire-switching job between the generator output and the distribution panel. But be sure you get to points A-1 and A-2 right where the juice comes out of the generator itself — otherwise

you'll make a direct short and burn up your rig.

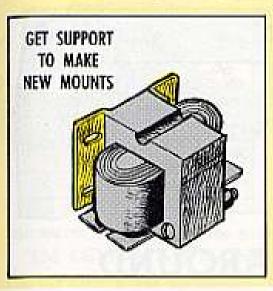
Don't get rushed and start up the set before you've had somebody else double-check the job — like testing the polarity to make sure the labels match the output.

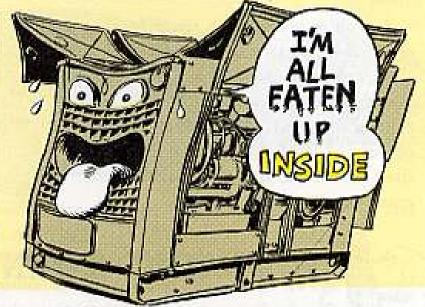




WHO-OO-O-o-o-ah!! Like it says in DA Cir 310-39 (Jul 67), don't heave out that TM 5-2410-210-15 (Aug 60), on IHC TD-6 Full-Tracked Tractor. It's still good — the DA Cir 310-30 (Apr 67) notice to ashcan it was all a mistake. So save it — along with Changes 1, 2, and 3. Like gold.

URGENT 45-KW FIX





Your 45-KW Stewart & Stevenson Model 52300 generator may look healthy, but if it's wearing a serial above -1881, it could have a real bug gnawing inside . . . so stop the chewing.

The bug is that the noise-filter-choke brackets break after 800 hours or so, shorting out the set. Support can put the blocks to that.

The fix is to take out the noise-filter-choke and make new mounts out of 1/8-in thick angle iron. Either 7/8-in width (FSN 9520-277-5984) or 1-in width (FSN 9520-288-1106) works great. Aluminum 1-in angle (FSN 9540-145-5752) is good. Tell your support to requisition 20 inches for each generator.



WHEN YOUR DELOUSING OUTFIT'S ...

GOT A LOOSE SCREW

You can do something about the screws (FSN 5305-273-7372 or 5305-050-9229), working loose from the retaining plate of the compressor diaphragm of your Model CDR 70,000 Curtis Automotive Devices, Inc., delousing outfit, FSN 4230-078-5455.

You remove all of the screws from the diaphragm retaining plate. Then coat the threads of each screw with an activator-primer, FSN 8030-980-3976. It comes in a 6-oz spray can. Be sure to follow the directions on the can.

After the primer dries, apply sealing compound, FSN 8030-823-7917, to the screws. Put them back in the plate and tighten 'em. That should do the trick.

DOUBLE DUTY

So you're operating a rough terrain crane that has two hourmeters — but only one DA 2408-1 for recording hours of operation? No sweat. Just draw a diagonal line across the box in column b. Record hours for the crane itself above the line — hours for the crane carrier below. Like so:

A TYPE LOG		☐ MONTHLY		OIL OR (C)	
DATE OF ENTRY	CRANE READ- ING HOURS Bottomi CARRIER	READING MILES	TOTAL FUEL ADDED (Gals)	SHIONS	THANSMISSION
8164	812 263	1634	组织验		



Make a note about what TM 5-2805-204-14 (Jul 65) says on page 32, Fig 25, about firing order for 2A042 10-HP Engine. The order is 1-2, not t'other.



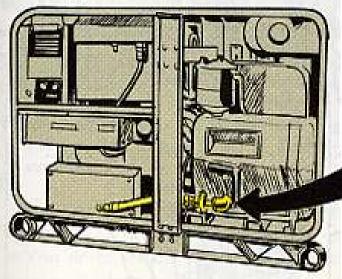


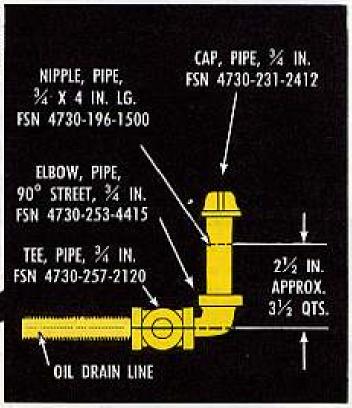
Oil starvation messes up a good many Hol-Gar CE-56-AC generators — and the secret is something the pubs don't tell.

TM 5-6115-312-15 on this set says the crankcase takes 3-1/2 quarts . . . but the oil filter soaks up another quart, and that's the catch. The set can run out of oil quicker'n the 10 hours it's supposed to last between checks, or overheat and plain burn.

One cure is to run the engine 20 minutes to a half hour after an oil change, then add another quart, making 4-1/2 quarts in all.

It helps to have a visual check on oil level, too, for a run all night or 'round the clock. To do that, you take off the drain-line elbow of the oil-drain line and apply this fix:

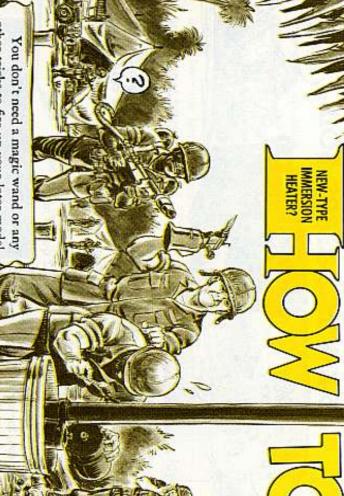




Cap the opening finger-tight with a pipe cap. Then when you check the oil level, you ought to see it about 2/3 of the way up in that nipple; if not, add.

When you make a dipstick check on oil like the LO says, have the letters on the stick facing the engine front . . . and no screwing the cap down on the filler neck.

And out of the tail of your eye, if the weather's above freezing, look to see the flywheel shutters are open good 'n' wide. But let nobody take 'em off.



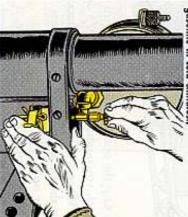
that your igniter cup doesn't runneth immersion heaters. But just be careful other tricks to fire up your later-model

spring. it has the wick and the wick retainer Before you use the cup, make sure

the fuel valve of the fuel fuel tank and swing the igniter cup below Unscrew the vent plug at the top of the



cup is 1/4 full of gasoline. (This may vary gasoline in cold dimates with the temperature — you'll need Now open the fuel valve until the igniter



it'll preheat the flue. swing the cup to the flue compartment so Next light the fuel in the igniter cup and

Let it burn for 1 minute and then swing the burning cup so that the edge is below the

fuel valve.

Do not put your face over may be a flash in the pan burner chamber or there





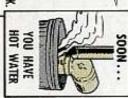
RETURN IGNITER TO THE FLUE



ignite from the burning cup.

Open the fuel valve and the stream will

HAZE COMING OUT OF THE STACK ADJUST FUEL TO A DRIP, DRII THERE SHOULD BE A WHITE JUST LIKE A FAST CADENCE.



SAFETY FIRST

The same safety tips goes for this type of heater as for the type that uses the

- lighting the burner. You never let the fuel drip into the heater before preheating the stack or
- You make sure the fumes are piped outside if heater is used in a building
- Look for leaks or spilled fuel. Wipe off the fuel from the outside of the heater.
- can heat approximately 20 gallons. of the combustion chamber and about 6 inches below the collar assembly. You Check to see that the corrugated can is filled at least 3 inches above the top
- Always wait until heater cools before you do any maintenance

ONCE AGAIN ON RECORDS RULES IT'S

Change 1 (15 Aug 68) to TM 38-750 the changes blowing your way include -effective 1 Jan 69. The wintry winds are restless, and

ords. It's the latest Army Equipment edition that's more streamlined yet). Record Procedures - streamlined, ment maintenance and historical recfew designated units using the CS3 test modernized and refined (except for the This updates your guide on equip-1. Head tales on less treated for comme

bend, watch especially for these major When your copy comes 'round the Podde Henry C. of made and Henry Comming dended in page 4-779.

3. Equipment model listing changes for

2. Revised list (para 4-22) of equipment

includes items added by DA Cir 700required to have log records, which

in both Appendixes III and V.

tronics and communication) of items in category 400000 felec-15 and provides a major overhaul

4. Code changes in Appendix I include major revisions in utilization (Table 7), reason for transfer (Table 16) and equipment loss (Table 17) codes.

S. Revision of Chapter S on ammo

general equipment uses of forms. records coordinates these rules with

6. Mailing addresses and equipment responsibility designations by categorles are updated (Appendix II) along with update of mailing addresses which oppear elsewhere in

the TM text.

62

2410, 2408-3, 2408-7 and 2408-8)

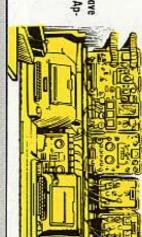
data collection fon DA 2406, 2407,

2. For electronics and communication end items (400000 category): of the rule:

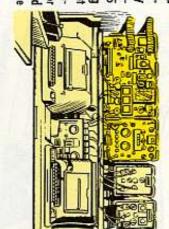
checkout on the log for any end item that has other end items as components. Here's a (large) thumbnail version The new rule on logs for composite items calls for a

COMPOSITE ITEM CHECK

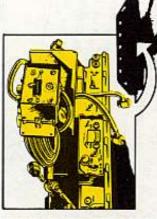
 Composite and item is required to have a complete log as spelled out in Appendixes III and V and para 4-22.



Ś as required in para 4-22). (The log need only MWO inserts in the com-Electronics posite end item in this same category component end item. not be initiated or maintained for the components and DA 2408-14 would DA 2408-3, 2408-7, 2408-8 and nonwould need an index, DA 2408-10, but posite item log (DA 2409 or DA 2408-5 items that are components of a comfeedback forms like DA 2408-10 for and communication



œ When they are components of comlines. (Appendixes III and Y and para electronics and communication records required on their own category (400000) category end items get all posite end items of other categories,



D. For everything but electronics and communication end items, all forms listed on category lines (Appendixes III and V and para 4-22) are required even when the item is included as a component in a composite end item. (Logs for all end items included in the composite item would be kept in one log binder with a DA 2408-10 index.)

NOTE: The only exception to these rules is an end item that qualifies under para 4-6b(4)(b) or 4-22i as equipment used by a U.S. Army service school or center in an approved POI, normally not in system configuration and routinely disassembled or bugged. This waiver on setting up records does not apply to DA 2410 and -1, nor to other forms when the equipment is returned to normal use.

OTHER CHANGES! DA 2405 — New rules require recording of DA 2410 actions, as well as DA 2407 requests, on DA 2405, Maintenance Request Register.

DA 2406 — Change requires entries in columns 11k through 11t for items reported on DA 2406 (App III) even if no ESC has been published.

DA 2408-3 — Appendix IV drops this as ammunition data collection form.

DA 2408-7

— Submission by depots required.

DA 2409 — Current status entries on MWO's (as required for DA 2408-5) also required for DA 2409 section D — para 4-20c(4) (c).

DA 2407 — Reporting of previously complied with MWO's is required, using failure
code 797 — para 3-7.2a(7) — and listing
estimated manhours from the MWO if actual
time is unknown — para 3-7.2a(9).

NMP copy is required to be retained for
90 days when data is electrically transmitted.
Rules are revised on support use, including
required reporting of on-site maintenance and
depot "repair and return to user" actions.

DA 2410-1 — Requirement to use this for combat vehicle engines deleted.

Other general changes include provisions for use of equipment records for special one-time inventory, operational or maintenance studies and a general updating of references, corrections of cross references and clarifications in the text.

It's the latest. You'll need it to keep an accurate score on your equipment.



74 | R Files

As you were, Mr. Handreceipt holder. Paragraph 3-4b Ch 1 (May 68) to AR 735-35 dropped a couple of lines at the printing shop. The original handreceipt file (or copy) still belongs to the property book officer. And, the H/R holder gets the duplicate copies.

Supply 7WX

Property-book types keep an eye out for the latest scoop on Change 1 (May 68) to AR 735-35. The info went out by DA TWX 884511 (21 Oct 68), and should be reaching you soon by way of your local supply SOP.

40-mm CS & Smoke Ammo

The 40-MM CS cartridge for the M79 grenade launcher is: Cartridge, CS XM651E1. Handling, firing and safety scoop on the round is covered in TM 3-1310-243-10 (Sep 68). Cartridge, CS XM674, and Cartridge, Red Smoke, XM675, can be fired by the M79, by the AN-M8 pyrotechnic pistol, or fired by hand. These 2 cartridges are covered in TM 3-1310-244-10 (Sep 68).

74 | R Dating

Remember, the initial handreceipt date on the back of the property book page (DA Form 3328) must be up-dated when there's turn-in or issue business between the H/R holder and the property book officer, or when a new man signs for the H/R items. That is, the H/R date on DA Form 3328 must jibe with the date of the latest transaction shown in the H/R balance column.

A Date For You

You'll not need a pencil and paper to figure what the Julian date is if you have the combination Perpetual and Leapyear Julian Calendar. FSN 7510-226-5401 will get you a package of 50. You find it listed in the GSA Stock Catalog IL/Part II (Oct 68).

M109 Framed Glass In One Pass

Search no more for a frame to replace that busted window on your 2½-ton truck's M109 van body. The whole works comes together as Glass, Assembly w/ Weather Seal FSN 2510-040-2087. The nomenclature's been updated. Quote Fed Cat C2510-IL-A.

Would You Stake Your Life wight now the Condition of Your Equipment?

