

the Army's goal.

A faulty tool can cost a broken arm or Recommendation (DA Form 2407). neck, equipment downtime . . . and Uncle a lot of money.

If you've got a common hand tool that's defective, made wrong for the job, or fails to work as advertised, the Army

For every job the ideal tool — that's wants to hear about it. The right tool for this job is an Equipment Improvement

JUST FILL OUT YOUR EIR AND MAIL TO:

US Army Troop Support Command ATTN: AMSTS-MAT 4300 Goodfellow Blvd. St. Louis, MO 63120



Tell 'em like it is with any common tool problem. Don't hold back the info. And keep the bum tool until TROSCOM tells you what to do with it.

For a hurry-up answer, call the tool managers on Autovon 693-2428.

If you have a complaint against a tool set or special tool — or set — send the EIR to the Army commodity command that's responsible for it. You'll find the address in each supply catalog you use to identify the item. TM 38-750 is being changed to show correct addresses.



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COMBAT SUPPORT

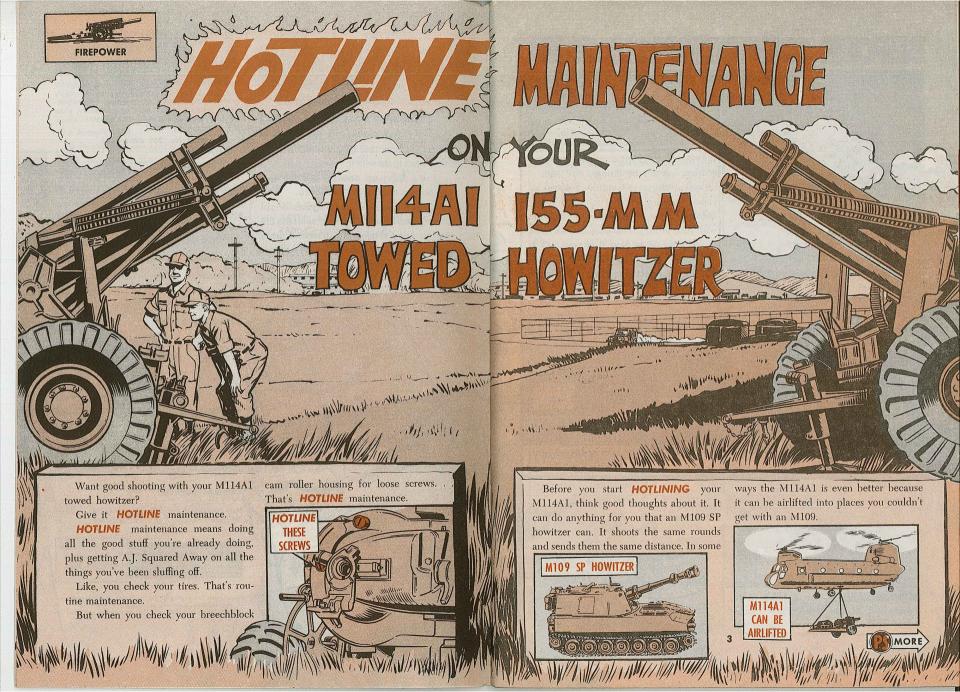
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PS wants your ideas and contributions, and is glad to answer your M S G Half-Mast PS Magazine Lexington, KY.

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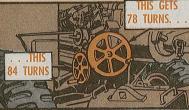
BEFORE OPERATIONS HOTUNE

COVER (OVERALL)—Look for rips and holes OIL CAN POINTS—The handwheels and the before you take it off and again after you other items in Note 4 to your LO 9-1025-



have it off. If it's too far gone, get a new one. It's FSN 1025-489-8372 (8455000) They're hard to get so keep the one you have in good repair for as long as you can

TRAVERSING HANDWHEEL-No sticking or binding when moved through its complete arc of 84 turns.



ELEVATING HANDWHEEL-No sticking or binding through its complete arc of 78



BOTH HANDWHEELS-The 2 holes in the handwheel handle sleeves need lubing every week.

200-10 (Apr 66) are HOTLINE maintenance points that need special attention every week.

TRAVERSING GEARBOX—If the traversing gearbox has 2 lube fittings, give them a little shot of grease monthly or whenever your traversing seems rough. Never take out the plugs and temporarily replace them with lube fittings. That's for DS/GS to do the way it says in Note 5 of your LO. If your gearbox does not have the 2 lube fittings, get direct support to put them in for you if you think it would help your traversing. Otherwise, don't bother.



lubed with PL - not GAA.



BREECH MECHANISM HOTUNE

BREECHBLOCK ROTATING CAM AND ROTATING ROLLER-Both screws should be tight. If they haven't been staked, get your friendly field artillery mechanic to do it. Eyeball the working surfaces of the housing for burrs or flat spots.



COUNTERBALANCE—Only direct support can adjust the counterbalance, but crewmen can disconnect it. The counterbalance has to be disconnected and the breech has to be open before you can take the breech mechanism apart. This prevents accidental closing of the breech, which could be dangerous.

BREECH OBTURATING PARTS-Like Noté 2 in your LO tells you, when you clean your breech obturating parts, you never lube the gas check pad. To clean it use hot, soapy water, then dry it. No lube. Also, when you put the parts together after cleaning, the front split ring and the rear split ring have to be positioned so their split ends are 180° apart. This prevents blowback and gas erosion.

Clean the obturator spindle with crocus



BREECHBLOCK DRIVER-Small cracks on the face of the driver are not dangerous if the breechblock closes and seats the way it should. Replace the driver if cracks go clear across its face. (Note: The most usual reason for a breechblock driver getting cracked is because it bangs against the breech ring. The counterbalance should be adjusted so the breechblock driver is stopped before it hits the breech ring.

cloth, not heavy abrasives. You can get it shiny with abrasives, but all that glitters is not good. This goes for both the barrel and the obturator. High polish is not required.

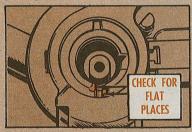
De mosse Marilia de Marian de



PERCUSSION HAMMER—Check for wear. The striking surface should contact the firing pin when the lanyard is pulled. This is important because a percussion hammer with a blunt nose might not do its job of firing the primer.



FIRING MECHANISM HOUSING—Check for flat places. If the percussion hammer is snapped a great many times without a primer



in place, the hammer can flatten the housing and wear out its own point. If you



must dry fire, tie a piece of cloth around your hammer to protect it and the housing.

CHECKING HEADSPACE—Unless your headspace is correct, you'll have maintenance problems with your spindle and breech.



Use headspace gage, FSN 4933-722-5952, and set your headspace to $1/16 \pm 1/32$ inch measured from the shoulder of the gage to rear face of the housing.

FIRING MECHANISM SAFETY LATCH—The spring in the firing mechanism safety latch is a **HOTLINE** mainenance point because it needs attention that it often doesn't get. Squirt a couple drops of PL on the spring once a week. Also, make sure the firing



mechanism safety latch plunger is in place. It is possible to put the firing mechanism in without having the safety latch plunger in place. If you fire a round that way, the firing lock will likely unscrew and somebody can get hurt.

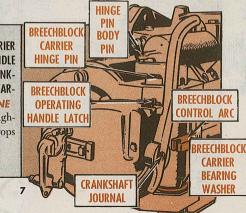


LOOSE FIT—The threads in the breechblock and breech ring are supposed to be a loose fit until the breechblock is almost completely closed. (Note: If the breechblock closes with a snap when you let go of the breechblock operating handle, the counterbalance needs adjusting by your support.)



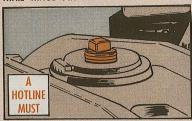
CIRCULAR OILERS—There are 3 circular oilers in your breechblock and breechblock carrier. They are **HOTLINE** maintenance points that need 2-3 drops of PL weekly.

HINGE PIN BODY PIN, BREECHBLOCK CARRIER HINGE PIN, BREECHBLOCK OPERATING HANDLE LATCH, BREECHBLOCK CONTROL ARC, CRANKSHAFT JOURNAL, BREECHBLOCK CARRIER BEARING WASHER—These are all HOTLINE maintenance points in the breech neighborhood that need their weekly 2-3 drops of PL.



HOTLINIG ON THE TRAILS

TRAIL HINGE PIN-This is the most fre-

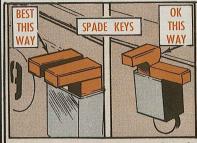


quently passed over part on the M114A1 which makes it the hottest item on our maintenance HOTLINE. Use a wrench to



take out the plug before you give the trail hinge pin its weekly shot of PL.

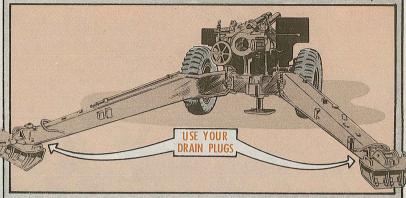
needs identical attention. So do both of them. Like, f'rinstance, there's a hinge pin on the left trail and another one on the right trail.



SPADE KEYS-They can be carried in the spade key bracket in either of 2 ways: 1 Side-by-side or 2. At right angles to each other. Put 'em in side-by-side. They're more secure that way. This is particularly important when the howitzer is to be airlifted.

CAREFUL PREPARATION FOR AIRLIFT IS GOOD PM.

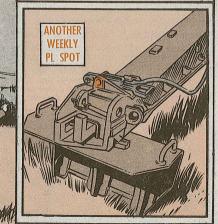
DRAIN PLUGS-Your trails should have 2 drain holes closed with 1-in pipe plugs, so you can drain the water out of the trails every week. In winter, water in the trails can freeze and break welds. Winter or summer, water in the trails makes them heavy and



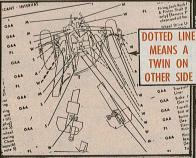
hard to move and messes up airlift weight calculations. If your trails don't have any drain plugs, get your support maintenance to put them in for you.

TIRE PRESSURE—Pressure is 50 pounds. A TRAIL LOCK—The trail lock hinge needs a note saying this should be stenciled on one weekly going over with PL. (Some guvs of the trails so you won't forget.

forget it.) Adjust the tension with the adjusting nut and jam nut so it takes a slight downward pressure to lock the trail lock handle.



FOLLOW THE DOTTED LINE—When you see a dotted line like this in your LO, it means



that the item it points to has an identical twin on the other side of the howitzer that





lock retaining pin spring, the "S" hook and chain are all in place, lubed, and the chain is secured at both ends. Note: If the retainer pin gets joggled out of its hole, the trail



lock handle is the only thing keeping the trails together. Trails spreading when the howitzer is being towed or airlifted could be dangerous. Check condition of retainer pin assembly FSN 5315-619-2997, if spring FSN 1025-619-2998, is serviceable. The pin assembly will hold the trails in locked position.

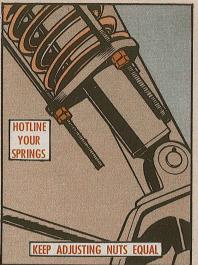
ALWAYS MAKE SURE THE
TRAIL LOCK RETAINING PIN SPRING,
THE "S" HOOK AND CHAIN ARE ALL
IN PLACE... LUBED AND SECURED!

REAL LOCK RETAINING PIN SPRING,
THE "S" HOOK AND CHAIN ARE ALL
IN PLACE... LUBED AND SECURED!

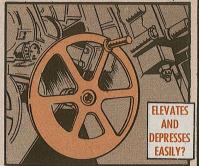
REAL LOCK RETAINING PIN SPRING,
PIN IS JOGGLED OUT
OF ITS HOLE, IT CAN
MEAN BIG TROUBLE!

EQUILIBRATOR HOTUNE

EQUILIBRATOR SPRINGS—The equilibrator springs, rods and tubes need a weekly



If you can now elevate and depress the weapon through its entire range with elevating and depressing taking about the same effort with the handwheel, then your



equilibrators are OK, and they don't need any adjusting.

going over with PL, but that's not the most important thing. The important thing is to have all 3 adjusting nuts on a given equilibrator the same distance from the end of the rods. This shouldn't vary a thread from one rod to another.

Before you mess around with this, put a load of about 54 pounds into the powder chamber. (A dummy projectile with the



head screwed off is about the right weight. Sandbags on the breech is another way to do it.) (WARNING: If you have to adjust the equilibrators, never take the adjusting nuts all the way off. Only your support unit can do that safely. The spring is under a lot of tension and is dangerous. You could be injured or killed. So, never take the nuts all the way off.)

You shouldn't tighten—or loosen—one nut too much. If you do, both you and the plate will be in a bind.



REPLENISHER—Replenisher rules:

- 1. A reading of within 3 1/2 inches from the rear face of the replenisher means you've got too much fluid in the replenisher. Drain it until you get a reading of 5 1/2.
- 2. If you get a reading of 7 1/2 inches or more, add fluid.
- 3. If you're going to do rapid fire, draw out fluid until you get 7 1/2-in reading. The heat of firing will expand the fluid enough to bring the piston to the normal position.

The 2 air holes in the rear of the replenisher piston guide are **HOTLINE** maintenance points. Use a wire to keep 'em open.

The poop in the TM about getting the replenisher piston moving with the tap of a hammer has led to a lot of pistons getting broken. If it won't move, tap it



gently with a rubber hammer and if that won't free it, call your direct support.

You'd probably have no trouble with sticking pistons if the replenisher gets exercised monthly the way it says on page 128 of Change 7 to your TM 9-1025-200-12 (Mar 65).



RECUPERATOR—The oil index rod should stick out 1/4 to 3/8 inch. If it's not in this range, add or drain oil to get it there. If it won't move, tap it gently with a rubber hammer. If that won't free it, call your direct support.

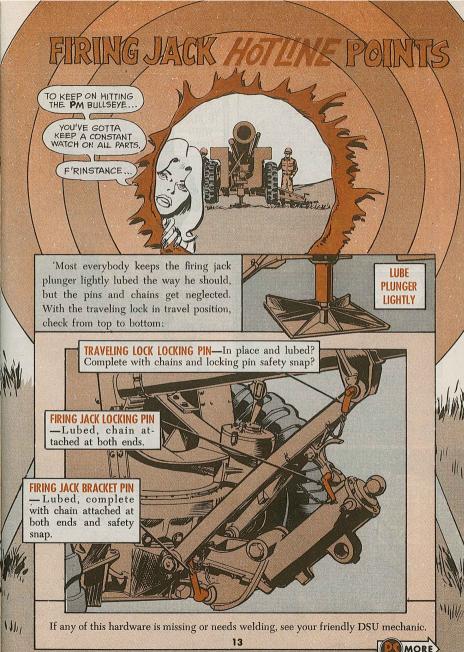
VARIABLE RECOIL CYLINDER—Both the large pin and the small pin must be present and serviceable, but you never have both of them in the active position at the same time.

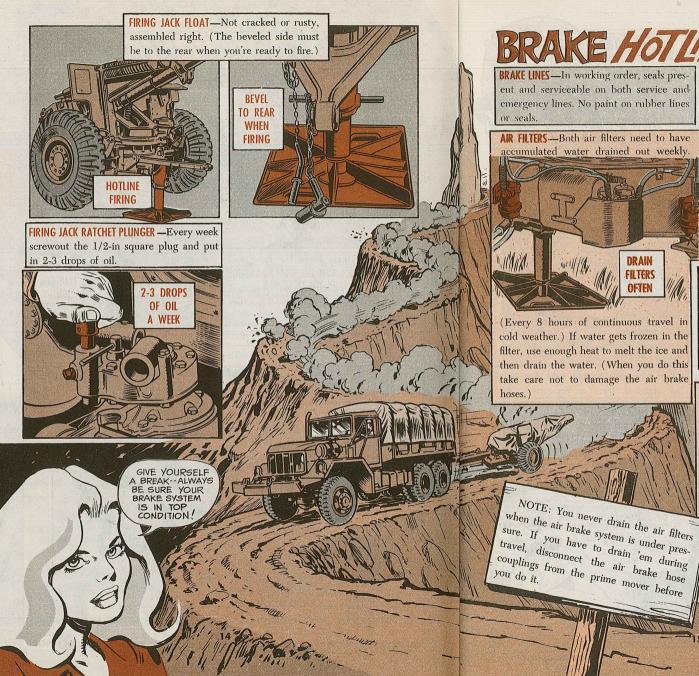


For firing the M454 projectile, you stick the small pin through the variable recoil shaft and stow the large pin in its bracket.

For firing any round except the M454 you reverse the positions with the small pin in its bracket and the large pin stuck through the variable recoil shaft.







BRAKE HOTUNE CHECK

BRAKE LINES - In working order, seals present and serviceable on both service and emergency lines. No paint on rubber lines



AR FILTERS-Both air filters need to have accumulated water drained out weekly.

DRAIN

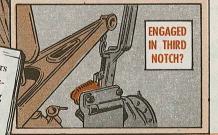
FILTERS

You drain the air filters by taking the drain plug from the bottom of each air filter.

You clean the filters (every 2 weeks) by taking them apart and washing the parts in drycleaning solvent or volatile mineral spirits. Make sure the parts are completely dry before you put the filters back together again.

EMERGENCY BRAKE -Close emergency air line cutout cock on prime mover. Now disconnect the air brake hose coupling from the prime mover. If your emergency brake is OK, the brakes on your M114A1 will go on automatically.

HAND BRAKES—(This applies to both the left and the right hand brake.) If the brake is not completely engaged when the hand brake latch is in the third notch, then that brake needs adjusting by your battery mechanic.



FIRE CONTROL INSTRU

M25 TELESCOPE MOUNT—Covers present and easy to move. Level vials not cracked, broken, loose in mounting or missing covers. Knobs operate smoothly for eleva-



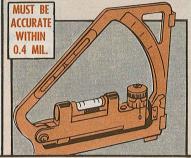
tion and cross leveling. Wing knob rotates easily and clamps telescope firmly. Mounting surfaces free of dirt, dents, burrs and paint.

M12A7Q PANORAMIC TELESCOPE—Rotating head and elevation knob screw tight. Target image clear. Index door works in both open and closed positions. Panoramic head, azimuth knobs and levers operate





M1A1 GUNNER'S QUADRANT—Level vial not cracked or loose. Pads not nicked or burred. Scales readable. End-for-end check accurate within ± 0.4 mil.



without binding. Screws tight. Eyeshield not chunked, torn, or dry-rotted.





COLLIMATOR M1—All 3 knobs, reticle level clamping, elevation clamping and azimuth clamping in good working order. All 3



tripod leg clamps working easily and holding at any given position. Remote control light source cord and rheostat in good order. Battery power supply in working order. Box not dented or rusted. Instrument cover not dented. Straps and latches

AIMING POST M1A2—All parts present and M63 FUZE SETTER—Complete with handle in working order. Stake points not broken socket and case. Socket fits easily into off. Fire control instrument cover M401 handle and rotates freely. not ripped or mildewed.



FOR BURRS

are put in.

INSTRUMENT LIGHT M34—Clamp hinges and

nuts turn freely. No nicks or burrs on

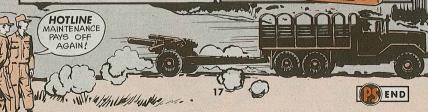
mating surfaces of lamp brackets. Illu-

minating tubes not broken. Toggle switch

works and lamps will light when batteries

M26 & M28 FUZE SETTERS —Scales slip freely.





海海沿

The AN/MPQ-49 Forward Area Alerting Radar (FAAR) is some complicated machine, but a few simple preventive maintenance tricks on your part can keep it tracking targets.

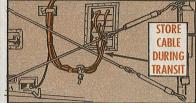
For instance, a simple task like putting the dust caps on the 3 rotary joint jacks (J-1, J-2 and J-3) at the top of the mast can protect them and prevent crud and corrosion from getting to the connectors and disabling the antenna assembly.



So remember: when you disconnect the cables, or install or remove the horn assembly, put on the caps.

Another memory exercise that'll prevent damage in the shelter: Keep TM's, clothing, tools and such off the blower vents of the PP-6238 power inverter and J-2863 distribution box.

When you're tooling the radar rig through the boondocks, remove and store the W20 cable (it connects the antenna to the shelter).



Otherwise, the cable dangles on the side of the shelter, where it grabs at brush and trees. That leads to damaged cables and connectors.

And while you're traveling, remember how high that radar is riding on the rear of your M561 Gama Goat.

AVOID STEEP

AND SAVE A RADAR FROM TOPPLING!



RELEASE HALYARD

TO SEAT PIN

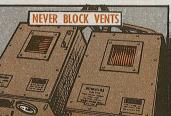
Be sure the latching pins on the antenna mast are fully engaged after you erect the mast.

Surest way to do that is to release your hold slightly on the latch halyards when the mast is fully erected. The halyard slack allows the pins to slip into place.

Naturally, if the pins aren't seated, the mast can slip down, with resulting damage.

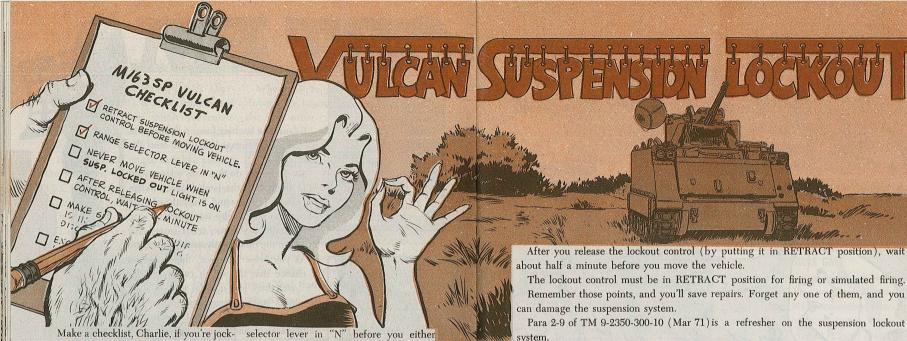
As you lower the mast, there's always a chance that the winch cable can slip . . . and there just may be enough slack to whack somebody.

So, keep the area under the mast and antenna assemblies clear. That combined weight can give one whale of a whack.



The vents are on top of the inverter and D-box, and if you block them you can cause heat damage to those components.

RIGHT ON!



eying an M163 SP Vulcan.

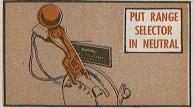
High on the list of things not to forget, put: "Retract suspension lockout control before moving vehicle."



There are other things to remember about the suspension lockout system:

For one, bring the vehicle to a complete stop before you put the lockout control in EXTEND position. And, put the range

extend or retract the lockout control.



Hanging down from the warning lights panel is a SUSP. LOCKED OUT light, which goes on whenever you extend the control. Never move the vehicle when that light's on.



PSM-6B BATTERY SAVER

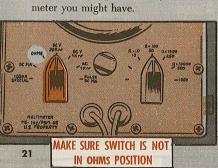
STORE IT ANY POSITION BUT

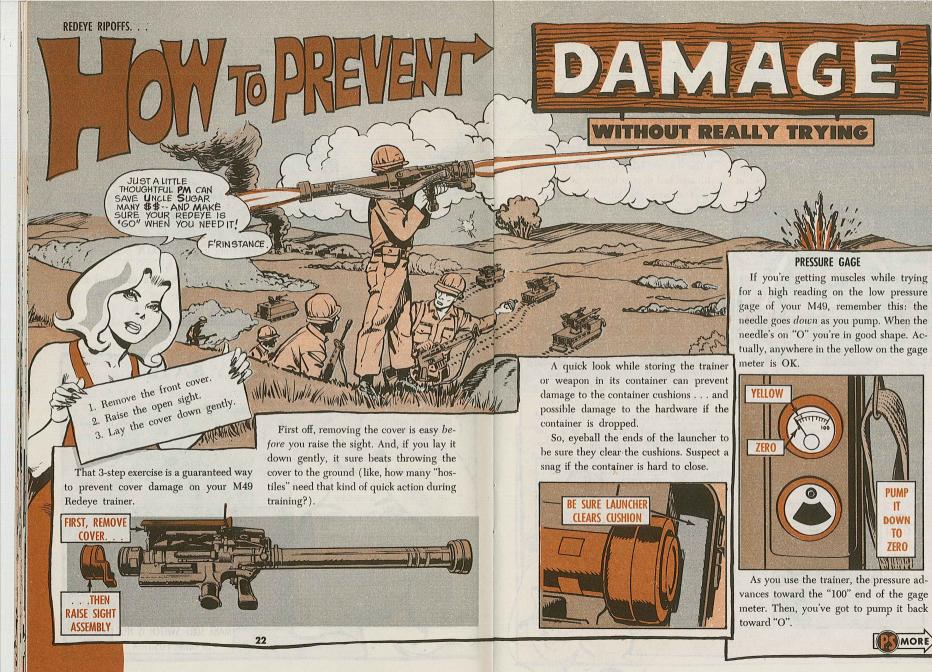
OHMS.

Want to prolong the life of the battery in your AN/PSM-6B multimeter?

When you store it, or you're through using it, place the FUNCTION switch in anything other than OHMS position. Leaving it in OHMS drains the battery.

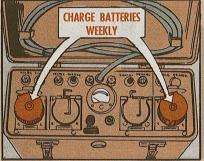
Same thing applies with any other multimeter you might have.







For best performance, your BA-523 batteries should be checked and charged at least weekly.

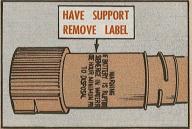


Recommended charging time is 5 hours (after which, you remove the battery from the charger). If your battery's tired or aged, you may have to go up to 8 hours.

To insure a good charge and prevent other damage, clean both contact rings of the battery with a dry cloth before you slip it into the charger. Clean one ring at a time . . . so you don't get shocked from touching the 2 rings at once.



If the warning label on battery rupture is still attached to your battery, have your support remove the label. The battery should *never* be submerged in water as the label suggests, because it can burst.



Instead, unserviceable or ruptured batteries should be disposed of like so:

Replace the plastic shield over the contacts. Put the battery in a plastic bag, and put the bag in a lidded container . . . for transport to your supply support.



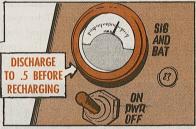


Never thought you could lengthen the life of a battery by discharging it, did you? Amazing!

The theory works in the charging scheme of the nickel-cadmium battery used with the AN/GSQ-137 target alert data display set (TADDS).

Some Joes slap the charging cable to a charge source as soon as the voltage reading gets a little low, but they're not doing the battery any favors. It shortens battery life.

Actually, when the battery gets low (SIG and BAT meter reading of .59) you should completely discharge it before you charge it. About the easiest way to discharge it is to turn the PWR switch of the TADDS to ON and leave it that way until you get a reading of .5 on the SIG and BAT meter.



The charging procedure is spelled out in para 4-7 of TM 9-1430-589-12 (May



Among the things you can do to keep the mechanical brains working in your Improved Hawk Information Coordination Control is to put the cover on the tape reader.

Not only does the cover protect the tape reels when people are moving in and out of the ICC shelter (during which they clobber the reels), but it also keeps out dust and other crud.

25



A cool swallow of air can keep the RT-524 receiver-transmitter in your Chaparral missile system going a lot longer.

The location of the RT-524 (next to the engine area) makes for overheating problems in the commo system.

You can help cool off the RT by opening the rear electrical compartment door when the system's not moving. The open door allows air to circulate around the RT ... and helps cool it.



Another way to protect the RT is to insure that the ANT CONT connector cable is never forced on. Easiest method is to keep the cable keyway at the top when you go to connect it . . . which lines it up. Just don't force it.



LATCH WORK

Air conditioner latches can last a lot longer if you remember to do 2 things:

- 1. Be sure the latches are in open position when you swing the air conditioner into place (that prevents crunching the latches in the turret).
- 2. Keep your foot to the left edge of the step . . . and away from the air conditioner latch . . . when you're about to step over the canopy threshold.



CONTROL PANEL

When you're putting the other boot down from that step into the canopy, aim it at the footrest "... and well back from that line of switches on the left control



month thank When you get seated, and it's time to talk, stay loose on that commo switch.

No muscle is required to put it in the position you want . . . and forcing the switch beyond its stops only makes for a repair job.



And about that knee switch next to the right panel: When you depress it, you cut out everything but the intercom. If you want to use the radio, take your knee away . . . instead of calling a repairman.

MPU & CREW DOORS

Never allow dirt, sand or gravel to build up around the edges of the MPU and crew equipment access doors.





Clean the edges of crud before you close the doors . . . and resist the urge to force the latches closed.

Forcing jams the doors, breaks latch brackets or bends catch pins. Jammed



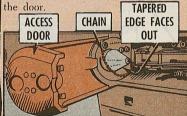
NEVER FORCE ACCESS DOOR LATCHES

latches also can give the gunner a structure inner-lock warning light . . . which means he can't fire the weapon except under emergency procedure.

RAIL ACCESS DOOR

Before you close the access door to the missile launch rail, be sure the chain on the rail dust cover is clear. Otherwise, you can shear the chain.

A good way to keep the chain clear is to place the tapered edge of the dust cover pointed toward the outside edge of the rail. That holds it up out of the way of



TENSION

Chain tension on the erect/retract system of the launch station must be set like it says in TM 9-1440-585-12. If the tension's not right (set by guesswork or "feel"), the turret can tilt, collapse or fail to rise.



TM 5-236-75 The American Ephemeris TM 5-1940-201-14 Mar Boat, Bridge Inboard Aluminum 27 Ft. (Highway HPI-

and Nautical Almanac 1975

TECHNICAL MANUALS

TM 5-4320-260-14 Jan Pump, Centrifugal Petroleum 245 GPM (John Reiner

TM 9-1425-470-12 Jan TOW Weapon

TM 9-2320-206-20 C4 Mar Truck 10-Ton, M123 M123C M123A1C M123E2

TM 11-2337 C6 Feb AP-4() Still Picture Projectors TM 11-2531 C6 Feb AN/TIQ-3 Public

Address Set TM 11-2586 C9 Feb AN/TIQ-2() Public

Address Sets TM 11-4940-207-20P Mar Shelter Mounted AN/GSM-44 Electronics Shop TM 11-5410-200-20P Mar 5-56()/G

TM 11-5805-358-15 C3 Feb AN/TCC-60, -69 telephone terminal set TM 11-5805-391-15 C2 Feb AN/TTC-23 manual Telephone Central Office TM 11-5815-306-12 C4 Feb AN/FGC-80 Teletypewriter Set TM 11-5820--203-15 C2 Feb AN/MRC-

54(V) Radio Repeater Set TM 11-5820-251-14P Mar AB-155()/U

TM 11-5820-334-10 C3 Feb R-392/URR Radio Receiver TM 11-5820-433-14P Mar AN/FRA-15

Radio Repeater conversion group TM 11-5820-535-15 C2 Feb AN/TRC-110(V) radio repeater set

TM 11-5820-536-15 C2 Feb AN/TRC-109(V) radio repeater set TM 11-5820-546-15 C2 Feb AN/TRC-111 Radio Repeater Set

TM 11-5820-759-12 C3 Feb Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists AN/GRC-165 Radio Set and C-7648/ Control Radio Set

TM 11-5825-202-12 C1 Feb AN/GRN-6 Radio Beacon Set TM 11-5826-226-20 C1 Feb AN/ARN-

82() Radio Receiving Set TM 11-5830-239-15 C1 Jan AN/PIQ-5A

Public Address Set TM 11-5840-229-20P Mar AN/TPS-33()

TM 11-5855-217-12-1 C5 Feb AN/VSS-3A Infrared Searchlight Set TM 11-5895-367-15 C3 Feb AN/TRC-

108(V) Radio Terminal Set TM 11-6110-243-15P C1 Feb J-2317()/

U Distribution Box TM 11-6125-210-12 C1 Feb PU-126()/

U Motor Generator TM 11-6625-261-12 C3 Feb TS-382()/ II Audio Oscillator

TM 11-6625-433-15 C1 Feb AN/URM

98() Wattmeters TM 55-1510-201-20P-1 Feb U-8D, U-8F U-8G, RU-8D

TM 55-1510-201-20P-2 Feb U-8D, U-8F. U-8G. RU-8D

TM 55-1520-210-20 C12 Nov UH-1D/H TM 55-1520-221-20P Dec AH-1G TH-1G TM 55-2840-230-20P Feb Engine, Air craft, Free Turbine T-73-P-1 T-73-P-700 craft, Free Turbine T-73-P-1 T-73-P-700
*TM 55-2840-233-20P Feb Engine, Aircraft, Turboprop T-53-L-7 T-53-L-7A T-53L-15 T-53-L-701 T-53-L-701A

MISCELLANEOUS

LO 5-4310-280-12-1 Jan Compressor, Rotary, Air: 600 CFM, 100PSI (Worthington 2016)

LO 9-2320-260-12 Dec Truck, 5-Ton, M812A1; M813; M814; M813A1; M815; M816; M817; M818; M819; M820; M820A1: M820A2: M821 TB 9-4935-552-14-3 Oct Troubleshoot-

ing Procedures for Test Station AN/TSM-93 (Land Combat Support System) TB 43-0001-9-1 Dec Electronics Main-

tenance Digest TB 43-0001-9-2 Mar Electronics Maintenance Digest

TB 43-0001-17-2 Dec Maintenance Di gest (CHAPARRAL) TB 43-0001-18-2 Dec Maintenance Di

gest (HAWK) TB 43-0001-28-2 Dec Maintenance Di gest (Forward Area Alerting Radar

System) TB 43-0001-39-1 Jan Equipment Improvement Report and Maintenance Di-

gest Tank and Automotive Equipment

NEW MOVIES

TG 5-4-23 250 CFM Rotary Air Com-

TF 10-4664 Field Kitchen Tent M1948 TF 55-4607 T-63 Gas Turbine Aircraft **Engine Storage**

TF 55-4684 Larc Amphibians

EIR Digest TB List

In the MICOM list of EIR Digest TB's in PS 256, make these changes on page 34—

43-0001-21 AN/GSA-77

74), SC's and SM's; and DA Pam (C)

310-9 (Mar 73), COMSEC Pubs

43-0001-22 LAND COMBAT SUPPORT SYSTEM

TM 9-5320-104

43-0001-23 PERSHING

43-0001-24 SHILLELAGH

43-0001-25 SERGEANT

43-0001-26 TOW

43-0001-32 Calibration Std and Access Also add these TB's to the MICOM list-

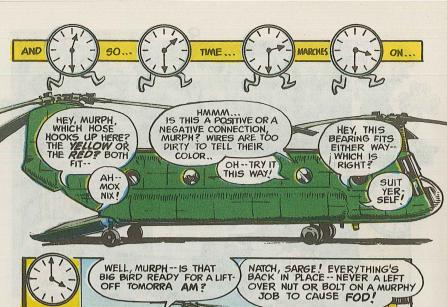
43-0001-27 LANCE 43-0001-28 FAAR

43-0001-29 BA Targets

You order these on DA Form 12-32 except TB 43-0001-32, which you order on DA Form 12-34.















IF YOU WANT TO DISPLAY THIS CENTERPIECE ON YOUR BULLETIN BOARD, OPEN STAPLES, LIFT IT OUT AND PIN IT UP.









NOT THAT HE COULD DO MUCH MORE THAN SIGN OFF A RED X TO UNGROUND TH' BIRD YIR WORKIN' ON!





SOMEDAY YER DEPLORABLE ATTI-TUDE IS GONNA RESULT IN A BAD MALFUNCTION - AND MEBBE TH' DEATH OF A POOR INNOCENT-IN AN AIRCRAFT YE'VE WORKED ON.













WELL, NOT ENTIRELY,
CONNIE ... I HAD A
PREAM ABOUT HOW
YOU MIGHT GET HURT AND
SUIDDENLY REALIZED
WHAT A RESPONSIBILITY
I HAVE FOR TH'SAFETY
OF ANYONE WHO FLIES
IN AN AIRCRAFT
I'VE WORKED ON.

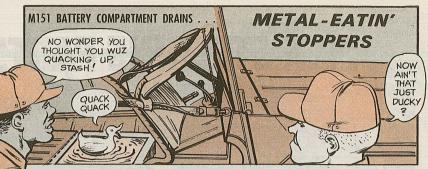












Pulling battery PM on your M151 1/4-ton series trucks should include an eagle eye looksee at the 2 battery compartment drain tubes.



They get clogged with crud from the inside of the vehicle, or with mud'n' stuff from the underside. Or they rot off, wear

short or break off after too many trips thru the boonies. Battery acid eats 'em, too.

A busted or stopped-up tube just won't hack it. When you flush the compartment you'll have water standing in the compartment or acid flying back on the undercarriage instead of draining to the ground.

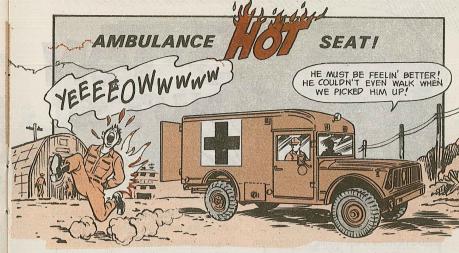
You can order these metal-savin' battery drain tray tubes with FSN 2540-832-5654. It'd sure be a shame to use manpower and maintenance downtime to fix a corroded bottom just because you neglected a couple of 16-cent drain tubes.



Do you really need a whole bow assembly, FSN 2540-165-4029, for your M151-series %-ton truck?

It looks like some outfits may be blowing 50 bucks for a whole bow assembly when maybe all they need is a 55-cent wing screw for the bow supports. That wing screw comes under FSN 5305-165-8125, listed in Ch 1 (Aug 73),TM 9-2320-218-20P.

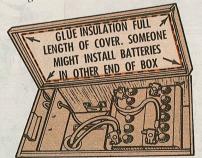




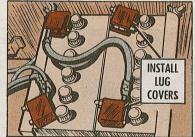
A shocking surprise is waiting for somebody if he sits on top of the battery box in the patient's compartment of your M725 14-ton ambulance.

The battery box cover, under the seat, can mash down on the battery posts. This short circuit may start a fire—or, at least run down your batteries.

The fix is easy—an insulator between the metal cover and the batteries. If your CO gives it the OK.



Cut a piece of %-in thick neoprene sheet to fit the underside of the cover. This comes under FSN 9320-241-9740 or FSN 9320-241-9741. Glue it on the cover with Adhesive, 1 pint, FSN 8040-664-4318.



To get extra protection, install Cover, battery terminal lug, FSN 2920-738-6272, on all of the post-clamp hookups. This cover comes as standard equipment on a lot of different new vehicles.





If you're operating one of the TM 9-

Basic among operator checks are the 4

lower nuts on the steering gear bracket.

If the nuts work off, so will the bracket . . .

2320-211-series 5-ton trucks, getting down

to nuts and bolts is a daily must.

5-16N NUTS

and there goes your steering.

An "out of sight" check are the nuts and bolts on the mounting flanges of the prop shaft . . . down under the truck.

When they work loose, the prop shaft drops and you stop. Period.

So, if you find any of the above loose, get 'em tightened.

140-170 LBS-FT

HAVE YOUR
MECHANIC TORQUE
BRACKET NUTS TO
140-170
FT.-LBS.



TM-260-SERIES 5-TON TRUCKS . . .

ALL

YOU SURE YOU GOT ALL 4 BATTERIES IN THERE?

3ATTERIES

IT WAS TURNIN' OVER FOR A WHILE -- THEN IT QUIT--



5-TON BRAKE SHOES



BRAKE SHOE FSN 2530-864-2990 FOR TM-211-SERIES 5-TON TRUCKS

BRAKE SHOE, FSN 2530-162-1986 FOR TM-260-SERIES 5-TON TRUCKS

This's for both of the 5-ton 6x6 truck fleets—TM-211-series and TM-260-series:

You won't get new brake shoes-withlining with that FSN 2530-152-2250 in TM 9-2320-211-20P (May 73) or FSN 2990-152-2550 in TM 9-2320-260-20P (Nov 72).

Instead, order FSN 2530-864-2990 for the TM-211-series 5-tonners and FSN 2530-162-1986 for the TM-260-series jobs.

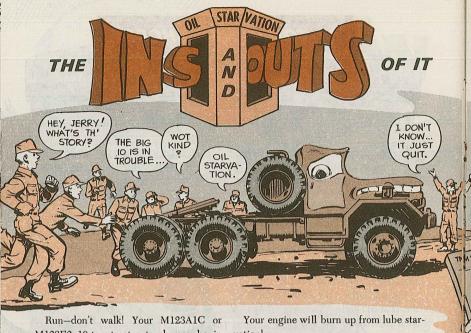
Sure, all of those trucks can use the same brake shoes. But the TM-260-series is getting a new, improved type. The TM-211-series will get the new shoe, too, when stocks of the older type are used up.

THOSE BRAKE
SHOES FOR
OLDER 5TONNIERS ARE
OK-- SO, LET'S
USE 'EM UP!

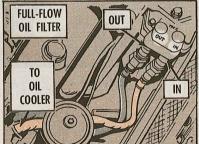
That's a slip in TM 9-2320-260-20 (Jul 72), para 2-90, about running on only 2 batteries.

Forget it—make sure all 4 batteries are hooked up and in top shape. You need all the poop you can get to start that powerful engine—even in warm weather.

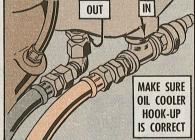
Sure, in a real pinch—like a shortage of batteries—you might be able to get by with only 2. You'll get your 24 volts OK if you hook 'em up in series—like in any other vehicle with a 2-battery setup. But your batteries may run down before you get your engine started. In an emergency, though, it's worth a try.



M123E2 10-ton tractor truck may be in vation! deep trouble!



Check out those 2 hoses that run between your full-flow oil filter and the engine oil cooler. They may be hooked up wrong. If so, the filter won't filter-the bagtype element has collapsed-and oil won't go through the cooler. Your oil will overheat and get thin.



It's all a matter of ins-and-outs. That's what it says on your oil filter-IN and OUT. And it says the same thing on your oil cooler.

Trouble is, some guys must think IN goes to IN and OUT goes to OUT. NOT

Make sure those 2 hoses are hooked up so one goes from IN on the filter to OUT on the cooler-and, natch, the other will then go from OUT on the filter to IN on the cooler.

JUST LIKE IN FIG. 2-49.1, CH2 (APR 13), TM 9-2320-206-20.

Goofing up is most likely to happen at the cooler end of the hoses. If you're not careful, you can switch 'em.

If you ever have to unhook those hoses at just one end, do it at the filter end. The hoses have special couplings at that end-you can't hook 'em up backwards.



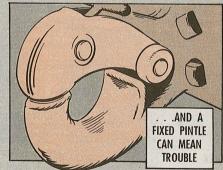


Towing a military trailer with a commercial vehicle may be hazardous to your health.

At least, that's so if you're towing a trailer with



a non-rotating lunette behind a commercial vehicle equipped with a non-rotating pintle. The hazard is



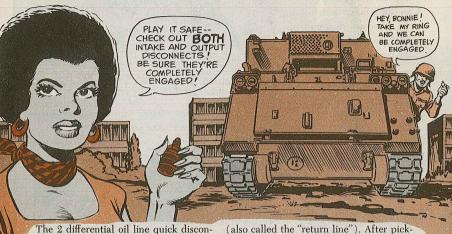
that either one of 'em can cause the other to overturn, especially during off-road operation.



GO SLOW AND BE EXTRA CAUTIOUS!



DIFFERENTIAL DISCONNECT DANGER



nects on your M113/M113A1 family of vehicles are fine and dandy like bourbon candy.

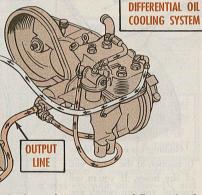
Their only weak point is that they have to be completely engaged and locked or they won't let the oil through.

INPUT LINE (RETURN LINE) CHECK OUICK DISCONNECT HERE CHECK QUICK DISCONNECT HERE

Your differential is cooled by oil circulating from the transmission-differential through the oil cooler.

The cool oil comes in at the input line ferential.

ing up heat in the differential the oil leaves by the differential output line and goes

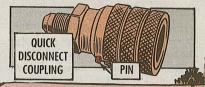


back to the transmission-differential oil cooler through the differential oil filter.

If the quick disconnect at either the input or output line is not completely connected, oil can't circulate through the dif-

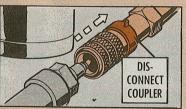
Naturally, the differential will overheat. ance between the nose piece hex nut and Also, the block in oil circulation can build the disconnect-coupler, and the pin and up enough pressure to bust the oil filter groove are not lined up, then your connechousing.

So-o-o-o, to keep this from happening, check out both the intake and output quick disconnects-make sure they're completely engaged. If there's a 1/16-in cleartion is OK.



To get 1/16-in clearance between the nose piece hex nut and the disconnect coupler, run through this little 4-part drill:

1. Disconnect the coupler assembly from the nose piece.



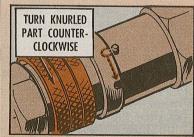
3. Keep on pushing the coupler far enough so that when you let go of the knurled part of the body, it will return to within 1/16-in of the nose piece hex nut.



2. Line up the pin and groove of the coupler and push the coupler over the nose piece.



4. Now, without changing the 1/16in clearance, turn the knurled part counterclockwise for about an inch so the groove and pin don't line up anymore.



If both your input and output oil line quick disconnects are completely connected you should have no problem with an overheating differential.

If you do, something else is wrong. Have your friendly mechanic check it out.



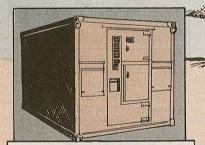
BYOI ON A TTC-23. . .

The AN/TTC-23 manual telephone central office is bedrock rugged and dutifully dandy. You can heli-carry or truck it to the boonies. . . . or wherever.

That doesn't mean, though, that you sluff off on your daily dose of PM. No, sir-e-e-e!

Fact is, you oughta be twice as nice to this area type commo gear after moving it into operating position.

Here are what you wanna eyeball real close. If you find any of these conditions, correct 'em PDQ.'



EXTERNAL—Skin punctured, cracked; seams ruptured; moisture leakage.





POWER & SIGNAL ENTRANCE BOXES — Dirty; unused receptacles uncapped; ground terminal wing nuts missing; receptacle covers, retaining cable missing; rubber protective shields deteriorating, missing; screws loose, missing.

GIVE A LISTEN,
YOU COMMO TYPES.
BEYOUR OWN INSPECTOR
ON YOUR TTC - 23 -- AND
LOOK OUT ESPECIALLY
FOR ITEMS IN BOLD

SLING ASSEMBLY—(Truck)
Turnbuckles loose; ring bolt
threads stripped. (Helicopter)
Sling assembly cable broken;
frayed; turnbuckles loose;
sling hooks broken; catch
bent, missing.

UNUSED COMPONENTS—Damaged, dirty, greasy, rusty, cruddy with fungus, uncovered.

ALSO, A VERY SPECIAL TIP... KEEP YOUR AN/TIC-23 WELL--VENTILATED WHEN YOU'RE INSIDE. ASPHYXIATION IS SNEAKY.

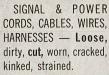
47





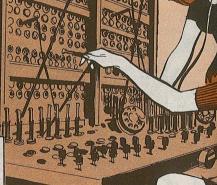


CEILING LIGHTS—Loose, missing, won't come on when switch in ON.

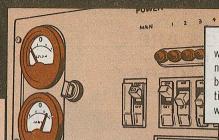


000000

STORAGE COMPARTMENT-Crummy, junky, dirty.



LIGHT-TIGHTNESS—With door closed and vents open, light leaks outside.



POWER DISTRIBUTION PANEL—Indicator won't glow when MAIN circuit breaker is ON; no voltage on voltmeter; ammeter needle bounces around; lights, heaters, air conditioning equipment and blower, neon lamps won't glow when circuit breakers are ON.

TM 11-5805-391-15 (MAR 69) WITH CHANGE 1, GIVES YOU ALL THE MAINTENANCE DETAILS. POWER INDICATOR NEON LAMP — Broken, won't light when power is on.

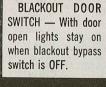


KNOBS,
DIALS,
SWITCHES—
Dirty, missing,
binding,
unreadable,
broken.

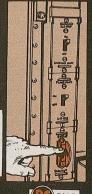


MAJOR
COMPONENTS—
Connections
loose,
missing,
dirty,
corroded.

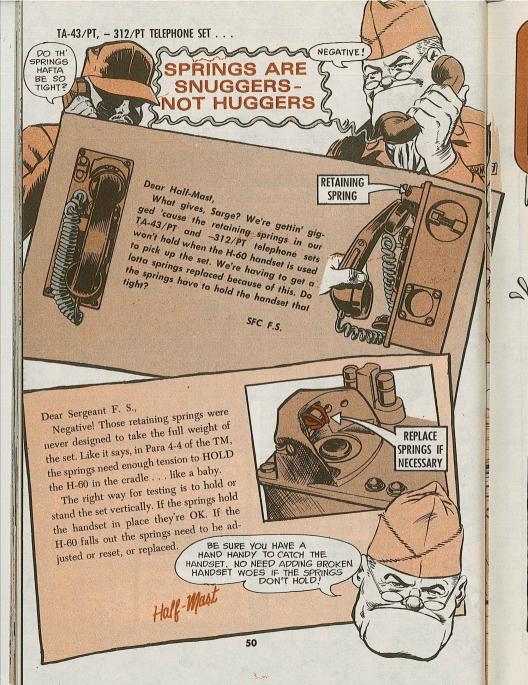
HEATERS — With switch on HEAT, fails to get warm airflow when operating temperature control; with switch on FAN, heating element stays on, fails to blow air; with switch OFF, fan continues to blow.



BLACKOUT BYPASS SWITCH — With door open lights go off when switch is ON.



EXHAUST
BLOWER—
Blower
switch ON,
fails to
exhaust.



PHONETIC ALPHABET

TER PATTER PM

Been getting tongue-tied trying to remember Alfa, Bravo, Charlie and other call words of the phonetic alphabet? Well, FSN 7690-243-9103 will bring you a decal of the alphabet to stick on or near your telephone or radio. SC 7660/90-IL is your source.



Where dampness is a drag on your TA-43/PT or -312/PT telephone set, giving 'er

AH-H-H, MY KIND OF

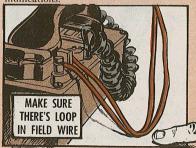
WEATHER



Like, f'rinstance, when the binding posts keep getting wet, slap a slitted cap (FSN 5940-283-5393) on 'em. This'll help shed the moisture for you.



And, when the gear's tied up to a tent pole, make sure there's a loop in the WD-1/TT field wire coming into the posts. Wire angled downward may be a shortcut to your set, but when the raindrops are falling it can be a short stop to your communications.

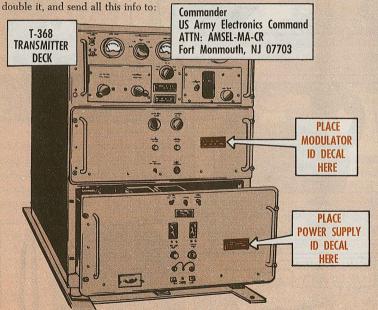




Now the compatibility of your T-368()/URT transmitter communicator can be protected with ID decals.

That's right. To make sure the modulator and power supply decks are matched up with the top deck's nameplate when they're out for repair, you can get Army decals to stick on 'em.

Just jot down the exact model of your transmitters and how many you have on hand,



All you gotta do when you get the decals is clean a spot on each of the 2 lower decks to the left center of the right handle-

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-Take the paper backing off the decal-

-And, presto! Stick on the decal.

ALL FOR ONE --ONE FOR ALL



Any time one of your AN/TRA-37 antenna group's 3 waveguides won't work, don't sweat it. They're interchangeable because they're identical.

So, ignore the RECEIVER A, RE-CEIVER B or TRANSMIT markings on em. It makes no difference.

When you gotta get one from supply use FSN 5985-412-9252. It's cheaper.



POSTERS FOR PM

Need a poster to help your preventive maintenance? A DA Form 17 to the Army AG Publications Center, Baltimore, MD 21220, can get you any or all the following DA Posters:

750-16---PM Time

Leadership 750-11-Roadside Check PM 750-14-PM Forms

750-8-PM Enlisted

750-17-Multi-fuel 750-20—Operator Know-how

750-22—PM Reminders

750-24—Chassis Greasing 750-26—Gages Talk 750-27—Clean Air Filters 750-29-Turn In Repairables

2

Also, new PM posters come out every now and then. You can get them automatically on pin-point distribution by putting your unit's order for them on DA Form 12-4, Block 9, Send the order to Baltimore.

53



Gather 'round, Kiowa mechs and avionics types.

With some book learnin' and a lot of OIT you can keep your baby up-to-snuff. Here are some pitfalls to avoid when you pull maintenance.

COUPLINGS OK?

When you remove any sections of the tail rotor drive shaft, focus in on the coupling disks, for real.

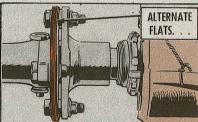


Eyeball the disks for cracks, wear or

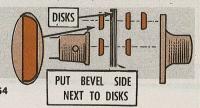
Never mix used and new disks together. If a disk is shot, replace all the disks.

Once the disk assembly has been "runing on your baby, never change the stackup. Changing the sequence or reversing assembly with new disks.

The grain of each disk runs parallel to the indexing flats. So, when you put together a new stack, alternate the indexing flats to get alternate grain direction.



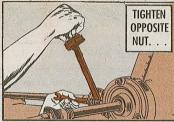
Watch your step when you install the bolts, washer and nuts. The washers you put next to the disks must be located with the bevel (curved) side next to the disks.



Otherwise, the flat side of the washer will give you stress points . . . crack the disks. Your bird will be laid up for repairs.

And, when you make with the 50-70 inch-pounds on the disk bolt nuts, alternate use of the torque wrench.

Tighten one nut to 20 inch-pounds, then -go 180 degrees and tighten the opposite nut the same amount. Repeat this deal while increasing the torque on each go around in 15 inch-pound increments to the final torque value.

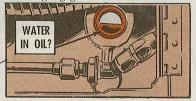


Otherwise, some of the disks will bulge. and you won't get the 0.005-in limit you're allowed between disks.



NO PLUGGED HOLES, PLEASE!

The next time you eyeball the transmission oil level in your Kiowa, look real close at the sight gage.



If you spot any water in the transmis-

sion oil, flush the transmission with oil and service it with a new supply.

When the drain holes are sealed, water can gather and seep past the main mast bearing seal and into the transmission.

Which is why you knuckle busters want to make sure the drain holes are not sealed. during your Periodic.

With the nose of your bird representing the 12 o'clock position, those holes are located at 6, 9 and 12 o'clock on the support. Keep 'em clear, man!



You can get water in the oil if you've had a lot of rain in your area. Same-same if the 3 rectangular drain holes in the base of the swashplate are plugged up with dirt.





HOT CARGO

You can carry cargo in the passenger compartment of your Kiowa, crew chiefs. But, you can't carry anything in the avionics compartment. That includes: pitot tube covers, tie downs, engine inlet and exhaust covers. That's the poop in Fig 13-2 of TM 55-1520-228-10 (Sep 72).

Makes sense. The structural honeycomb floor paneling and radios can be damaged by tool boxes, oil cans, tools and hardware.



Any time you come across a punctured honeycomb panel, make a temporary repair, right away. A permanent repair can be made later. Water that gets into a panel causes it to come unglued and corrode. Pressure-sentitive tape works real fine but even bubble gum will do the trick.

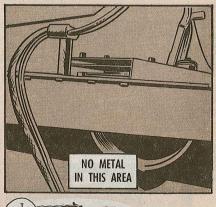
There is a "hot" battery relay in the avionics compartment. If metal crosses the bare posts, sparks will fly. Oily rags can really make it a hot compartment!!

That's why you crew chiefs want to make sure you have 2 large cable nipples, FSN 5975-250-6871, and a small nipple, FSN 5975-553-6995, protecting the relay.



You've got wiring in the avionics compartment that can be chafed by oil cans and tools and can short out. Metal that doesn't belong in the compartment also can throw off the T-611 flux gate valve for the AN/ASN-43 directional compass. Your favorite throttle jockey could get a bum steer.

Keep the avionics compartment clean, man!





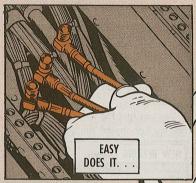
LOST, I RECKON --SOMETHIN'S THROWN OUR DIRECTIONAL COMPASS OUT OF WHACK!

EASY DOES IT

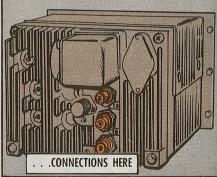
Any avionics repairman worth his salt knows that cable connectors on the AN/ARN-89, AN/ARC-114,-115 and-116 are a mite delicate. Make your connections carefully so that you don't bend or break connector pins and put the set out of operation.

Take the AN/ARC-114 in the Kiowa, for example. The contact pin in the three antenna cables is a cast pin and it'll break very easily.









So, when you hook up the cables never use force. Insert the connectors straight in, not at an angle.

The same deal goes for the signal cable. Find the master guide slot and go straight in . . . you won't bend any of the connector pins.

RIGHT HANGER HOOK-UP?

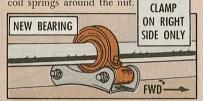


Those right-sided tail rotor driveshaft bearing hangers look wrong to you, bird mech? Yearn to change 'em to the other side, to strengthen out your OH-58A?

Careful, now.

The new-model bearing hangers clamp on the right side of the shaft, facing forward.

You can spot the new hangers by the 3 coil springs around the nut.



Some recent OH-58's were made with the new hangers clamped on the left side. If you have one, change the clamp to the right side no later than the next Periodic inspection.

The old-model hangers clamp on either side of the driveshaft.



If a well-intentioned mech should get the new hangers on the wrong side, that driveshaft could be damaged.

So-o-o-o. . . .

To get snug handling for your OH-58A's tail rotor main retention nut, FSN 5310-NUT UNDER HERE 131-2660, latch on to a new 1%-in crowfoot attachment. It's winging its way into TM 55-1520-228-20P (Aug 73), under FSN 5120-935-7394. **USE NEW** CROWFOOT ON NUT



NO MUSCLE, PLEASE!



FAIF 12

Course, you need a 0.175-in clearance between the driveshaft coupling and the 90-degree gearbox input shaft on your Kiowa, bird mechs. But that's for initial installation only.



You do not need to maintain that clearance during operation. The shaft is free to move fore and aft while your bird is in the blue. This is normal,

So, keep your cotton pickin' hands off the shaft, man. Too much muscle will bend the shaft and damage the bearings.

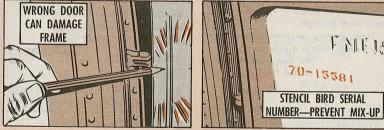
During inspections just flex the coupling and check the splined adapter for freedom of movement.

If the coupling must be repositioned, remove and replace the assembly according to the poop in the Kiowa organizational maintenance pub.

STOP THE POPPIN'

A pilot's or co-pilot's door poppin' open on an in-flight OH-58A can be something more than embarrassing. . . to the airmen. . . and to any bird mech who puts on the wrong door.

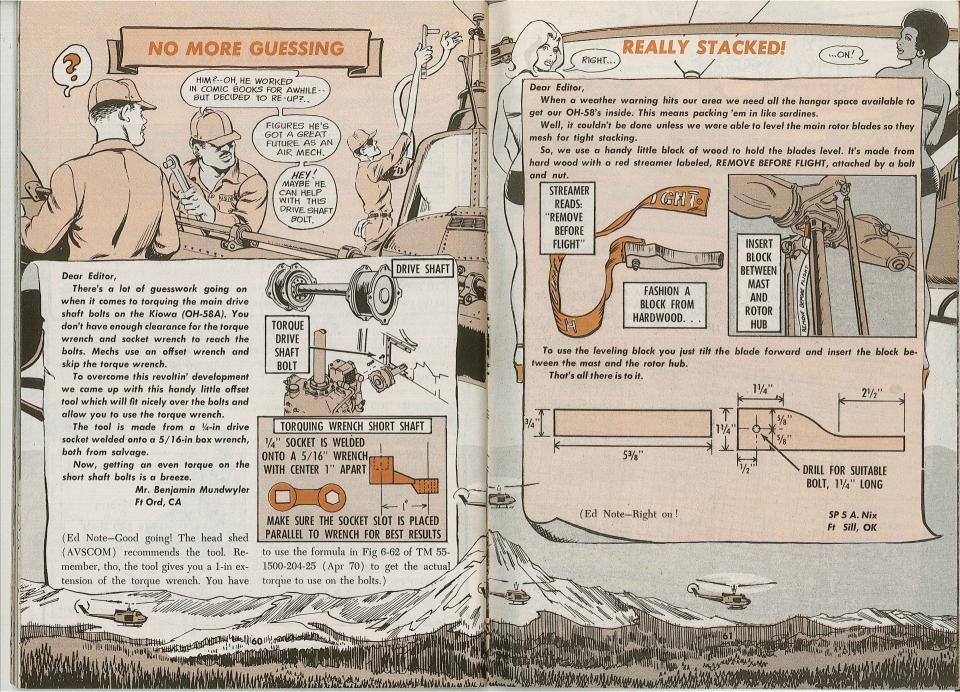
Make sure you put back the door you took off. If you install a door from another Kiowa, the latch will be out of adjustment, and door-poppin' may be a part of your future.

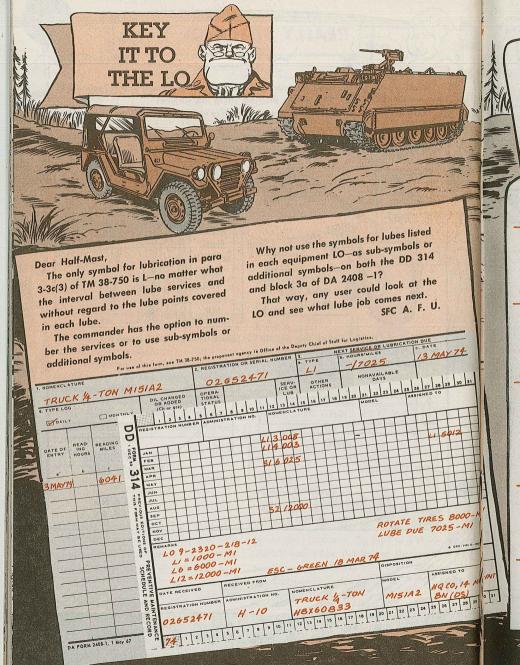


Fact is, the door latch is adjusted to the airframe by means of a roll pin. If the wrong door is accidentally put on, the latch must be adjusted to the airframe.

Speaking of doors, when the bird is on the ground, keep the doors latched.

Strong winds can catch an unlatched door and crack out the airframe portion next to the bushing.





Dear Sergeant A.F.U.,

That's not only a sharp idea, it's "legal" as the TM now stands. It's recommended -as long as it's set up that way in your unit SOP and explained on the DD 314

(remarks block).

Some lube intervals are stated on the LO in hours only with no matching cal-

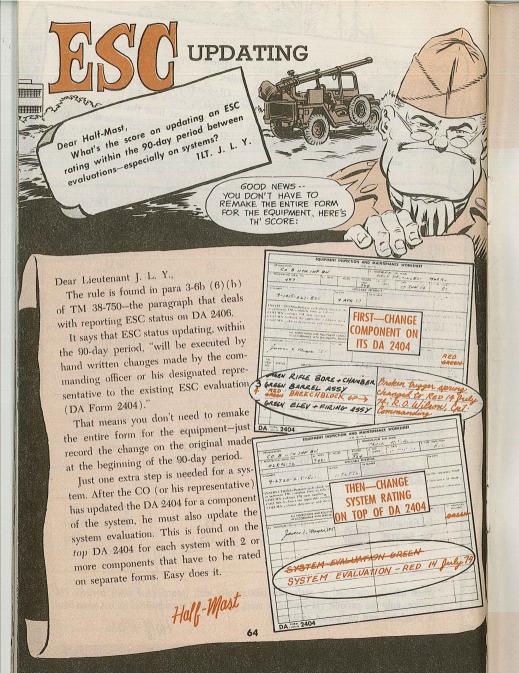
endar intervals. Other lube intervals may be speeded up by accumulated hours or

Obviously the L, standing alone, won't tell you as much as the LO symbol will about the next lube that's due. And the LO symbol, written alongside the L, gives

you a quick clue on what's needed. Here's how LO symbols line up on a few typical LO's-

	The second secon		
Equipment LO	Lube Symbols on LO	L (for Lube)+ Matching LO Symbol	Periodic PM Symbol* (Used When Lube is Coordinated With It)
LO 9-2320-218-12	1=1000-mi	L1	
for Truck M151A2	6=6000-mi	L6	S or S1
	or 6 mo 12=12000-mi or 1 yr	L12	S or S2
LO 9-2300-257-12	W=weekly	Lw	That rivered gars
for Carrier	Q=quarterly	Lq	Q or Q1 & Q3
M113A1	S=semi-	Ls	Q or Q2
TITIL	annually A—annually	La	Q or Q4
LO 5-3805-251-12-1	Operating hours	L10 or L1	Q or Q1 thru 4
LO 5-3805-251-12-2	10-hrs	L50 or L5	(No exact equiva-
for Scoop Loader	50-hrs	L100 or L10	lent in operating
MW-24B	100-hrs	L250 or L25	hours)
	250-hrs	L1000 or L100	
TOTE Ch	1000-hrs 2000-hrs	L2000 or L200	
10 5-6115-270-20			Q or Q1 thru 4
for Generator	5-hrs	L5	(No exact equiva-
Set JHGW3B	25-hrs	_ L2 5	lent in operating hours)

* When lube is scheduled or performed concurrently with (coordinated with) periodic PM service, only the periodic PM symbol is used. LO symbol is recommended for use when lube is scheduled and performed separately.





UNHAND ME, YE MISBEGOTTEN VARLET!

SO WOT IF ME NAME IS MURPHY

shafts are a safety hazard.

Seal Out Weather

Got a Hanson Model H446 wheel-mounted Looking for a sealing compound to go 5-ton crane? Better let your DS outfit know around those bolts, screws and brackets when so they can apply MWO 5-3810-233-30 (July installing a radio set in your vehicle? FSN 73). It's urgent. Boom hoist cylinder anchor 8030-226-6436 will get you an 8-oz tube of the waterproofing sealer which is listed as MIL-S-45180.

HEY, CONNIE-HAVE I GOT A

PROBLEM ..

MURPHY!

Torque All Screwed Up

Urgent On H446 Crane

Pages 16 and 17 of PS 254 said the torque on the engine mount screws of your M551 Sheridan should be around 130 ft-lb if MWO 9-2350-230-30/7 has not been applied or around 175 ft-lb if the MWO has been applied. This is correct. The info near the bottom of page 18 of the same issue has the figures the opposite way and is wrong.

Nylon For Your Seat

Your seat been saggin' lately? The seat in your Huey, (UH-1) that is, FSN 4020-240-2146 will bring you some nylon cord you can use to lace things up.

Trailer Gasket

Make a note — that Gasket (Part No. 7698578) on page B-78, TM 9-2330-211-14 (Oct 69) comes under FSN 2520-899-1351. It's for M172A1 25-ton semitrailers.

☆U.S. GOVERNMENT PRINTING OFFICE: 1974 - 758-447/11 Would You Stake Your Life on the Condition of Your Equipment?

5-Ton FSN Switch

'Tain't a bit funny when you order a washer, FSN 2510-737-2507, listed on page 2-172 in TM 9-2320-211-20P (May 73), and end up with a frame cross-member for the M38 1/4-ton truck. So-o-o-o, use FSN 5330-483-2408 to get the washer, (gasket) for your 5-ton truck's mirror brace rod.

Follow Local Rule

You use your supply document numbers alongside small arms serial numbers on property book pages only when your command directive or local SOP calls for 'em. Some do but others may not. DA Msq DALO-SMS-R 301410Z Oct 72, cited on page 63 of PS 257. doesn't set up a DA requirement for document numbers on PB pages.









ON 30 SEPTEMBER 1974

FSN 5306-145-0879 NSN 5306-00-145-0879 29 Sep 74 30 Sep 74 Same item

(2 zeroes convert FSN to NSN)

NSN 5306-01-145-0879 New item of supply added after 30 Sep 74.



SEE DA CIRCULAR 708-3 (JUL 72) DETAILS