

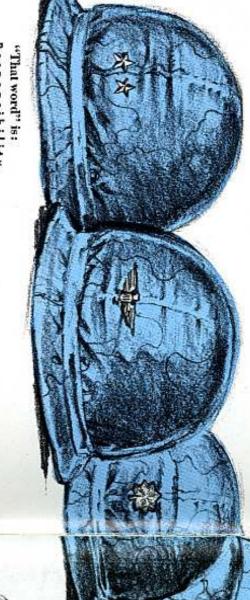
FOR PM YOU NEED

ONSIBILITY

THAT 4 (teen)-LETTER WORD

guys don't even know what it means. They never learned. just shrug it off. They never think it's got anything to do with them. Some Some guys shy away from it - that word. They're afraid of it. Some guys

for himself – and for others who depend on him. But every man's got to accept it sometime, if he's going to do any good



R-e-s-p-o-n-s-i-b-i-l-i-t-y.

A big word with a simple meaning - a job you're expected to do.

Even bigger, he's responsible for the mission of your outfit. CO. He's responsible for all the men and all the equipment in your outfit. There're people in the Army who carry a lot of responsibility - like your

lems to prevent bigger problems. taining equipment to prevent its breakdown. Or it's correcting small prob-Vital to that mission is Preventive Maintenance of equipment. This's main-

fail. Without equipment, the mission will fail. Without constant, conscientious preventive maintenance, equipment will

in your outfit carrying his responsibility for preventive maintenance of his Success or failure of a mission depends a great deal, then, on every man

There's a bonus in it for you -

bility strengthens you. Both are vital to the success of your mission. Like physical exercise strengthens your body, exercising your responsi-



Issue No. 210 1970 Series IN THIS ISSUE

MIGI/MIGIAI Mowitzer 2-15 FIREPOWER







DA Form 2404 45 AIR MOBILITY 45-51 UH-1, AH-16 48-51



\$2 B9-622R/U \$3 Battery Poop \$3 AN/TCC/7 \$4 Ground Stree 54 AN/GRA-39 54 AN/GRA-39



lications 38 16, 17, 28, 27, 30, 31, 35, 47, 48, 53, 54, 55, 76, 80.

GENERAL AND SUPPLY



Use of lueds for printing of this publica-tion has been approved by Headquarters, Department of the Army, 26 February 1988. quirements submitted on DA Form 12-4 DISTRIBUTION: In accordance with re-



PS Magazine. Post Knot, Ky. Sql. Half-Mast.

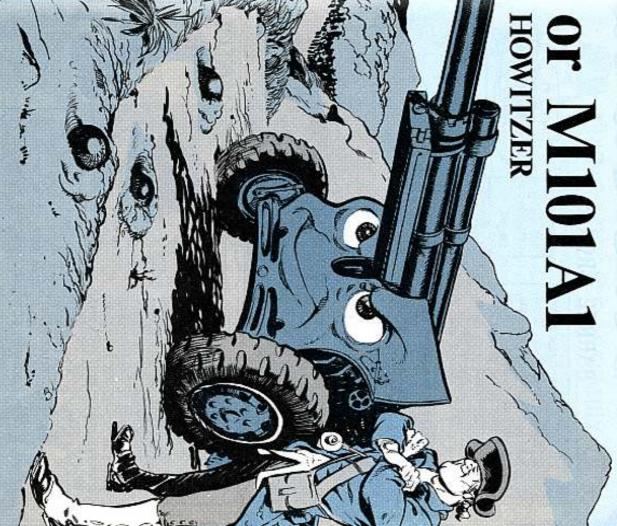


That's the kind of proud talk you hear from the light artillery types when they're yakking about the M101 or M101A1, 105-MM towed howitzer. And, if you've been around anytime at all you know that's not just idle

To stay in top shape, of course, your howizzer needs regular care. And, regular care means you keep the weapon clean and dry as possible, properly lubed and painted. It means you keep her adjusted right and check carefully for loose, binding, worn, missing, cracked, corroded or otherwise damaged parts or assemblies.

corroded or otherwise damaged parts or assemblies.

Here's an inspector type check-list to help you spot check your weapon. Naturally you'll make sure all parts are clean, free of rust, and spot-painted where needed.



Pay special attention to the problems listed in **bold type**. They'll get you gigs or put you out of action in a tough spot.

Any problems you can't handle get passed on to your support outfit quicklike. The MAC (Maintenance Allocation Chart) is in Ch 2, 5 and 7, TM 9-325. PM check points on the weapon are listed in the TM's Ch 6.





ating-lever handle-catch loose, staked wrong. Chamber chipped, cracked. plates scratched, burred, painted. Opermissing, threads stripped. Leveling ring locking screw seated wrong, loose, nicked, burred, needs lubing. Breech BREECH RING — Inside carbon coated

> Gouged. EXTERIOR

> > TERE ū

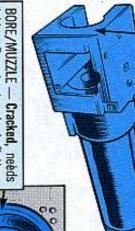
> > AS AN UNIMPORTANT

cradle; mounting screws, washers missing, chewed-up. Firing shaft worn, bushing loose; spring weak or busted; pawl cracked, worn, not

FIRING SHAFT AND BRACKET - Bracket damaged, not secured

alined with trigger shaft. Guide shaft bracket cracked, mounting hard

ware loose, missing worn.



split; screw loose, stripped, sheared. HOWITZER LOCKING RING — Loose,

ed, gouged, chipped, sheared. lubing. Bore lands raised, flatten-



under FSN 1015-317-2484). Handle cracked, missing. Roller, pulley Shook, brackets, clevis, pins, screws, washers worn, loose, bent

broken, missing,

LANYARD - Frayed, busted; wrong lanyard (the right lanyard comes

under FSN 1015-502-1092.) Firing case FIRING LOCK - Firing pin worn, decracked; trigger fork binds, stuck, worn, right sear spring is a must. It comes weak, kinked; wrong sear spring. (The missing; sear worn; sear spring missing. sheared; firing spring weak, kinked, worn, damaged; cotter pin missing, formed; firing pin holder or its sleeve

THRU THE TUBE. MUCH CARBON A MINIBALL BUILT UP IN

A, COI 20

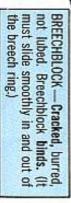
COULDN'T GET HERE - YEW missing.

screw loose, missing, burred; detrigger shaft detent worn, cracked, tent spring worn, kinked, missing; BLY - Detent spring-retaining-TRIGGER SHAFT DETENT ASSEM-

worn; trigger shaft bent, worn, ger-shaft detent-handle missing, TRIGGER SHAFT ASSEMBLY — Trig oose, arm burred, cracked, bent.



BREECH

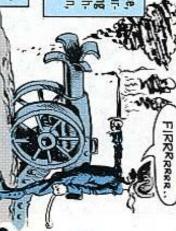


ing surface); firing-pin hole worn, nicked, burred. (screw head must be below bushface; lock screw loose, missing or not flush with breechblock sur-BREECHBLOCK BUSHING - Loose,

EXTRACTOR — Broken, missing, worn, sluggish

MORE

lever pivot burred, ing screw loose, burred, cracked; crossnead weak, missing; crosshead burred; handle pin missing, spring ASSEMBLY — Lever cracked, bent, BREECHBLOCK OPERATING LEVER damaged, worn, lock-



leakage (if leaks at filler valve, stuffing box or past the recoil piston at the box end wrench when working plug). Oil recede within 24-hours, call support. respirator end, cause the oil index to place beat-up plug. Use care and a 1/2-in plug's head rounded or chewed-up (re-FILLER PLUG — Loose, threads stripped



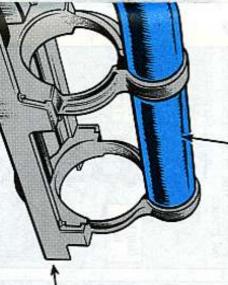
MECHANISM

loose, doesn't adjust easily (musi

RECOIL CYLINDER — Respirator

weapon's not in use).

RECUPERATOR CYLINDER — Dented,



Yokes and rails pitted, lube fittings busted, clogged, loose, lost. SLEIGH ASSEMBLY—Cracked, loose.



loose, plunger damaged, won't mark. RECOIL MARKER - Stuck, worn; screws S/man

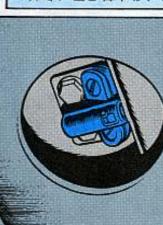
checking, adding or draining oil. Same goes gun . . . wipe 'em clean before using them.. for the liquid releasing tool and the oil filler always clean area around the filler plug when (To protect recoil oil from contamination

mechanism. For step-by-step scoop see cavity before adding oil to the recoil knows — it takes extra care and knowon that problem. So, be sure everyone index also remains flush when the oil cuperator cylinder. When oil reserve is item, and a clean cloth, to clean the oi plug, use a small screwdriver or similar And when removing the filling and drain how to re-establish correct oil reserve. reserve is excessive . . . it can't clue you index is flush with the face of the re-OIL INDEX - Dirty, stuck, defective, low the index recedes. However, the When recoil oil reserve is OK the oil leaking. Oil reserve low, excessive.



STUFFING BOX AND PURGE PLUGS excessive). Leaking (yell for support if it's

ever neglect 'em.) cotter pin must be on right and in good shape missing, broken. (The outer locking nut and age at the stuffing box.) Outer locking nut cracked, loose, threads stripped; cotter pin go out of control when it's fired. So, don't If they're beat up or loose the howitzer may piston sit where it'll not bind or cause leakouter locking nut so there's no end play. Then back it off I castellation. That lets the PISTON ROD — Out of adjustment, (Tighten

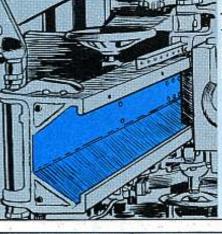




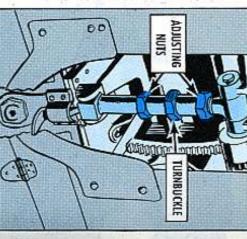
CRADLE/EQUILIBRATOR

CRADLE — Slides burred, not greased, gouged, rivets loose. Drain plugs loose, lost, stuck. (Monthly, or so, remove plugs and elevate weapon to drain water collected inside the cradle walls. Where it's real hot, of course, the condensation inside the walls will normally be dried up when the metal heats up.) Welds split, cracked.

5-



CRADLE STRUT LOCK — Out of adjustment; nuts, turnbuckle, brace loose, cracked. Cradle lock strut piece worn, scored, nuts loose; hinge pin worn, broken, missing. Upper and lower strut latch assemblies worn, loose, damaged, not greased.



EQUILIBRATOR — Fulcrum and spring seats cracked, distorted; adjusting nuts loose, worn; guide rods painted, not greased, threads damaged; straight pin, cotter pins broken, lost. Equilibrator spring and rod painted, grimy, damaged; spring rod not greased.

Equilibrator out of adjustment. (Adjusting nuts need loosening if howitzer is hard to depress, tightening if it's hard to elevate. Nuts must be adjusted evenly. When adjusted right it'll take approximately the same amount of force to depress the howitzer, as it will to raise it. For info and caution on adjusting equilibrator see para 96, TM 9-325.)



pin nut damaged; washer, screw loose, missing, lube fitting plugged, sheared, missing.

loose, mounting

nardware missing,

CROSS SHAFT GEAR AND LEFT ELEVAT-ING HANDWHEEL — Gear housing dented. Gear housing and housing cover

UP/DOWN/SIDEWAYS

The elevating and traversing systems must work smooth-like throughout their entire range. So, never force the handwheels if the systems are jerky or there's binding. A balky handwheel may mean a system's just cruddy and needs cleaning and lubing. But, it can also mean something's caught—or... there's damage, in the elevating arcs, pinions, or elsewhere in the elevating system... or that the equilibrator is out of adjustment, blocked, damaged... or that there's damage in the traversing system.

A tube that's hard to elevate or traverse can also mean excessive lube in the elevation worm wheel or the traversing screw swivel nut.

If free-play on the elevating or traversing handwheels is more'n one-sixth of a turn, tell support.

Pay real close attention to all the lube fittings in both systems. Are they plugged, sheared, smashed, missing?

ELEVATING MECHANISM

ELEVATING GEAR AND RIGHT ELEVATING HANDWHEEL — Gear case dented;
gear-case and gear-case cover mounting hardware loose, missing, worn; collar loose, worn, taper pin missing, bushing loose. Shaft and flexible joints worn,
bent, painted. Handwheel self-locking
nut or washer loose, damaged, missing;
collar, taper pin loose, worn, missing;
Hand-wheel burred, handle sleeve
cracked.



Not lubed, corroded; teeth broken;
 bolts, nuts loose, worn, threads stripped.

WORM SHAFT GEAR — Bushing loose; castle nut loose, worn, washer, cotter pin missing, worn. Worm-wheel housing cover loose, dented, cap-screws not safety-wired.

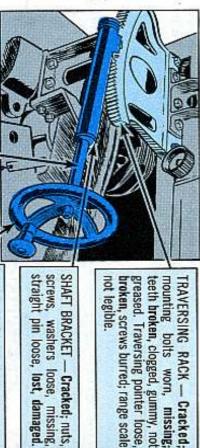
taper pin loose, worn.

worn. Cross shaft bent, collar, taper pin, bushing loose, worn, missing. Handwheel burred, self-locking nut, washer loose, worn. Handwheel collar, bushing,



VERSING MECHANIST

mechanism check -If your M101 or M101A1 still has the worm-and-rack type traversing



straight pin loose, lost, damaged. screws, washers loose, missing SHAFT BRACKET — Cracked; nuts

nut, washer, collar, bushing worn red; handle cracked, worn, locking TRAVERSING HANDWHEEL — Bur

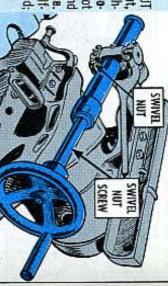
roded.

WORM SHAFT - Bent, worn, cor-

Pinion not greased, dam-

On the screw-type traversing mechanism-

SCREW - Swivel nut screw bent, locking nut, washer loose, burred nandwheel brackets cracked, loose. ken; swivel nut caps and ing-hole clogged; swivel nut bropainted, not greased, cover breath-Traversing handwheel burred, selfcracked; swivel nut and NUT AND SWIVEL pivot



GUN'S CAN'T 되

COULD GET KNOW WE

3600

I DIDN'T

₩ Q

TRAVERSE

5

WHEELS

doesn't seal right; door sprung, hinges ed. Rubber seal split, painted, busted. Inside brackets, clamps, holders latch, chain, snap bolt, lock missing, loose. Mounting brackets loose; locking PANORAMIC TELESCOPE CASE loose, missing, shot. - Dentloose,

missing;

BLIES-Handle missing, AXLE LOCK ASSEM

bent, parts missing brackets, latches, hinges loose, worn, hinges loose, worn, bent. Auxiliary shield MAIN AND AUXILIARY SHIELDS-Loose missing, split, burred; cracked, twisted; latch ASSEMBLIES—Bracket BOTTOM SHIELD LATCH

spring missing, worn. bearing surface scored; lock; lube fitting plugged, missing, sheared; broken, won't pivot or sneared cotter pin sheared, spring missing, weak missing; hinges broken loose, U-tastener bent

stripped, missing. HANDBRAKES — Out of adjustment; lever bent, worn, trip handle doesn't release or hold; ratchet stripped; spring weak, missing; cotter pins missing, worn, castel nut

way, adjustment is OK, if the brakes grab when you push the lever about half-way down on the rack. See paras 104, 109-110, TM 9-325 for info on care and adjustment takes over 7 notches on the ratchet to stop the jacked-up wheel. To put it another Jack up wheels to check handbrake adjustment. Brakes need adjusting when

seals installed wrong (the lip on seal must much, not enough or contaminated grease; grease toward bearings). Brake bands worn, greasy. wheel bearings out of adjustment, damaged; too WHEELS — Loose; stud nuts missing, worn, loose;

in paras 101 and Wheel bearing adjustment and packing SOP 103, TM 9-325.

TIRES — Cut, cracked, worn; valve stem pinched, squashed; valve cap missing. Stones, limbs, nails, ground, 48 PSI for higher speed over hard surface). 32 PSI for traveling at low speeds over sof Air pressure low (40 PSI under normal conditions, glass, etc., embedded in rubber or caught in tread.



TRAILS/LOCKING ASSEMBLIES

TRAILS—Hard to spread and close. Handrails bent, loose. Spades twisted, battered, out of line. Handspike missing, burred, bent. Drain plugs missing, frozen (tend to trail drain plugs like you do the cradle drain plugs. Some trail drain plugs are located at the end of the trails... others are under the trails).





DRAWBAR AND LOCKING LATCH ASSEMBLY — Lunette cracked, loose, slotted nuts cotter pins loose, worn. Drawbar twisted, bushing worn; locking hole cracked. Trail locking loop and handle assembly wobbly, busted, not greased; latch plunger loose, stuck, busted. Cotter pins, nuts, pins lost, worn.

TRAIL LOCKING PINS AND HINGE PINS — Locking pin busted; chain missing, broken, not anchored to trail bumper or pin. Hinge pin worn, loose.





CRADLE TRAVELING LOCK AND BRACK-ETS — Brackets loose, cracked, not alined (Never force-lock the trails. For minor adjustment of locking brackets loosen bracket capscrews, adjust brackets as needed, and then re-tighten capscrews). Capscrews worn, missing. Lock shaft and shaft piece burred, bent, cracked, pin missing.

GIB BEARINGS—Not greased, painted, scratched. (Lift trails high for close look at bearing surfaces)

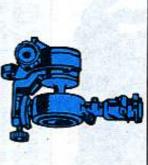


TODAY IS BIG TROUBLE TOMORROW

FIRE CONTROL/SIGHTING

M12A7H/S PANORAMIC TELESCOPE—
Lens scratched, smeared, cracked, fungus infected. Clamp loose, cracked. Elevation and azimuth micrometer knobs loose, bind, cracked, backlash when rotation is reversed. Indexes, scales not legible, loose. Eyeshield split, loose, deformed, dirty. Ballistic reticle doesn't illuminate when instrument light is on. Throwout level broken, stuck (it must release gear when pressed and return the worm into mesh when released).

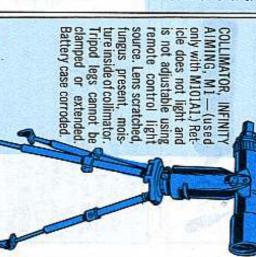




M21A1 TELESCOPE MOUNT — Mounting screws loose, missing. Leveling knobs cracked, bind, hacklash. Wing knob broken, loose, spring weak (won't snap instantly into locked position). Socket bent, burred. Level vials cracked, loose in mountings. Tangent screws burred, stuck. Mounting surfaces dirty, burred, painted.

M16A1D ELBOW TELESCOPE — Optics smeared, scratched, cracked, fungus infected. Eyeshield split, dirty, deformed. Illuminating windows broken, loose; adaptor damaged. Ballistic reticle doesn't illuminate when instrument light is on.



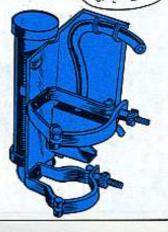


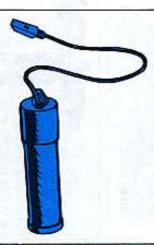
MORE

burred, cracked, binds. Instrument light clamp loose, loose. clamp cracked, wing nut broken, eyeboll M23 TELESCOPE MOUNT — Telescope rusty, Elevation worm, screw loose; worn. Clamping bolt burred, binds. WORN. Bracket rotating knob Support burred



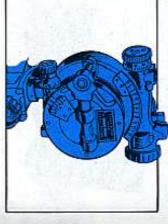


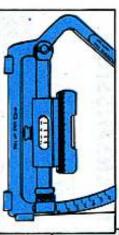




when weapon's not in use) contacts corroded (pull batteries ou cracked. Batteries missing, leaky, dead Broken, burned out bulbs. Parts missing, knob broken, won't dim or brighten ing. Clamps, broken; case dented; cap dented, miss-M19 AND M36 INSTRUMENT LIGHTS lamps; wire frayed, cut, lamp bracket on M19 damaged, M36 switch and illuminating damaged. M36 rheostat

angle of sight knobs cracked, bind or grab. Level vials cracked, loose in their RANGE QUADRANT M4A1 — Elevation and angle-of-sight scales not legible. Elstaked at a reading of 300 mils, so mountings. (Angle of sight scale must be ate all scales. Cross-level elevation and evation and scale light doesn't illumincan't be used.





burred; scales not legible MI/MIAI GUNNER'S QUADRANT -Level vials cracked, loose; pads nicked,

ings scratched, worn. AIMING POSTS — Bent, cracked, mark-

GUN COVER - Ripped, moldy, wet, oily,

ing, fasteners broken.



straps, buckle missing, busted. MUZZLE COVER — Missing, torn, moldy.

weapon's special tools and equipment. They're listed in the TM's Table I, Ch 5. App IV, Ch 5, TM 9-325. Replace missing or damaged items. Same goes for the Check the howitzer's BIIL (Basic Issue Items List). The items are called out in

D PLATES

etc., on the weapon and on fire control and sighting equipment. Keep 'em clean and coat metal plates carefully with oil to protect them from rusting. Check all name plates, caution plates, instruction plates, serial number plates,

NOTE - The carriage serial number is used as the end item serial number.

with LO 9-1015-203-10 (Dec 64)? outfit must borescope the tube every 90 days, or as called for by your CO-like must be on hand and in good order, and all entries must be up-to-date. Is the it says in TM 9-1000-202-35. And, how about your howitzer's lubing? Is it in line borescoping info current? When the weapon's not in regular use your support The forms you need on the weapon are listed in TM 38-750. All the forms

The pubs you should have on the weapon are:

6, 7 and 8. TM 9-325 (May 48), Ch 1, 2, 5,

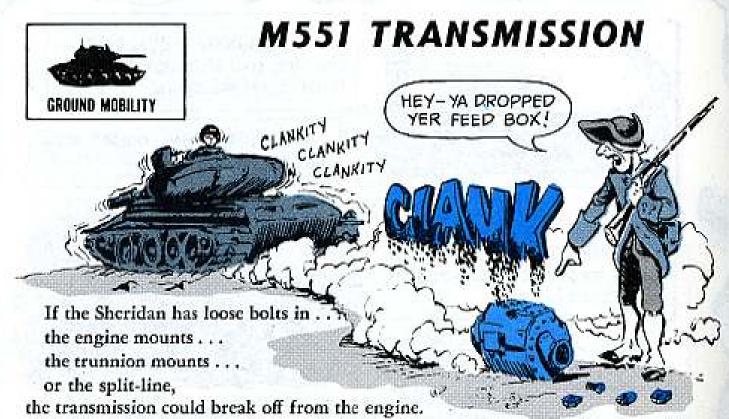
LO 9-1015-203-10 (Dec 64)

TM 9-1015-203-20P (Jul 68). FM 6-75 (Feb 63), Ch 1 and 2. TM 9-1015-203-ESC (May 69).

There's also a real good film on the weapon. It's TF 9-2050

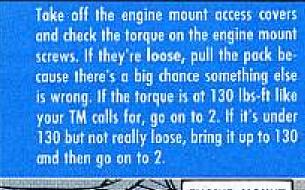
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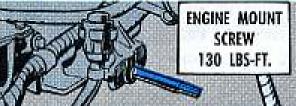


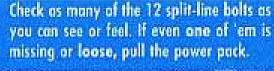


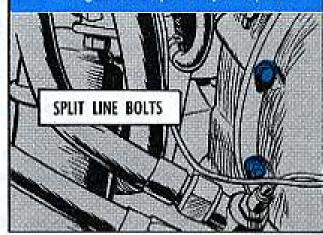
If that happened your converter housing would bust, and your direct support would have to get another one and put it on for you.

To keep that from happening here's what you can do . . .

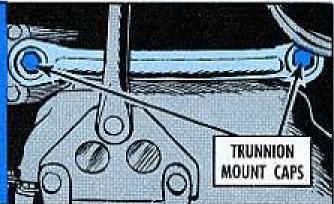








Test the trunnion mount caps with a torque wrench. If they're quite loose, pull the pack. If they're below the 85-90 lbs-ft torque they're supposed to have, but not really loose, torque to 85-90 and go on to 3. If they're already at 85-90 go on to 3.



Even if your M551 passes all the tests, check the split-line bolts every quarterly (Q) service and at any time the power pack is out for any reason.

Replace any missing split-line bolts with grade 8 bolts, listed on page 55 of your TM 9-2350-230-25P/1 (Jun 66) as FSN 5305-725-2317. The washers to go with 'em are FSN 5310-877-5972.

After you get all the split-line bolts in place and torqued to 35 lbs-ft, put the power pack back and make sure you get the right torque (130 lbs-ft) on the engine mount screws and (85-90 lbs-ft) on the trunnion mount caps.

(Note: For now you have to go through this whole drill, but when the new design Ny-Loc mounting bolts and nuts are issued it shouldn't be necessary. They ought to be in the supply system soon.)

MORE M551 TIPS

TIP1 The speedometer/odometer cable on your M551 Sheridan won't work right if the transmission adapter key gets lost.

That's why it says in Step 8 on page 9-7 of Ch 4 (Apr 69) to TM 9-2350-230-12 (Jun 66) to tape the adapter key to the speedometer cable.

The tape is just to keep it secure until you get your maintenance on the cable done, after which you put the key back into the adapter.

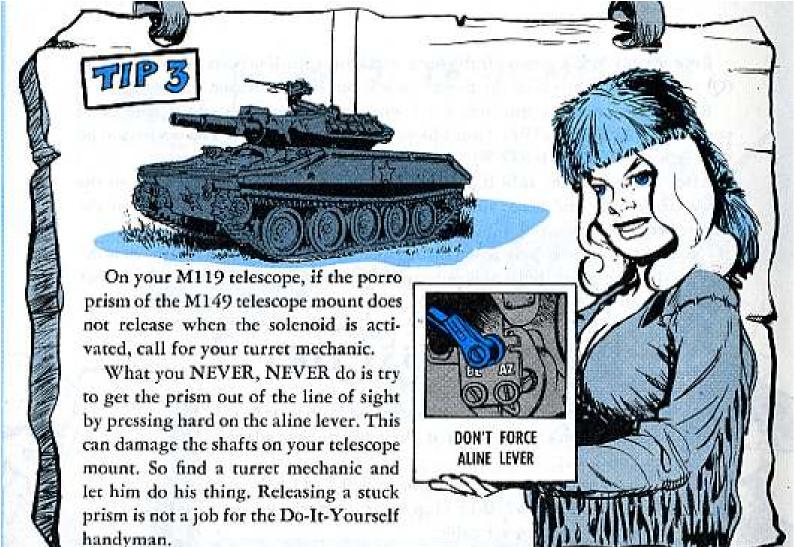
But what's happening is people forget to put the key back and that's just as bad as losing it.

So, if you're having trouble with the cable, see if the key has been left out. If it's missing and not taped to the cable, get a new one (FSN 5315-597-5387).

TIP 2 If you've got no protective covering over the rheostat terminals in any of your 4 dome lights, it can be real shocking news if you have a metal object in your hand when you accidentally touch one of the rheostats.

To cut down on the high jumpin' and screamin', cover the terminals, wires and rear of switch area with vulcanizing compound. You get your insulation from the cushioning effect so any type of vulcanizing compound is OK just so you're not stingy and use plenty of it. Silicone rubber compound FSN 8040-867-4358 will do the job. Item 19, TB 750-981-4 (Oct 69) has the scoop.





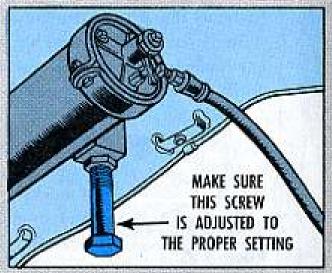
M48A2/M48A3 TANK TOPICS

It's an Oldy but a Goody . . . the info on adjusting the maximum depression stop screw so the gun breech clears the rangefinder by 1/4 inch when the gun is fired at maximum depression.

You find it in Ch 14 (Sep 66) to TM 9-7022 (Mar 58) for the M48A2 and M48A2C tanks and on page 2-579 of TM 9-2350-224-20 (Jan 66) for the M48A3.

So make sure your mechanic has got the word and has adjusted the maximum depression stop screw and entered the fact on the equipment log book.

One other thing to watch . . . don't leave anything on top of the range-

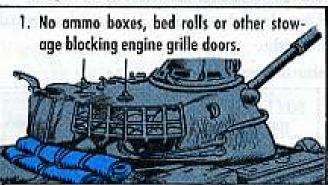


finder such as a clip of ammo (or whatever). At maximum depression it would be crushed between the turret roof and the rangefinder and you can easy figure which would break first, the roof or the rangefinder.

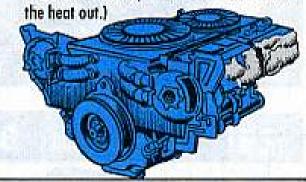


It's not cool to let your tank get overheated.

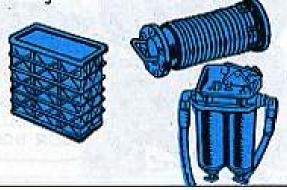
So, give your tank the cools with these 5 inspection rules:



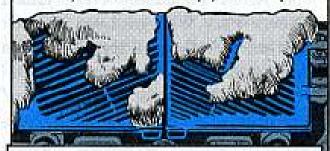
3. Oil cooler radiators clean, not clogged with dust or mud. (They need to be clean to let



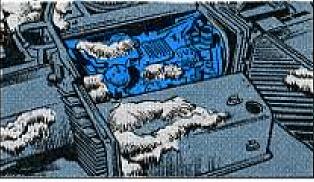
 Filters not clogged. The engine and transmission can run hotter than they should if air cleaner, oil or fuel line filters get clogged. So service these filters like it says in TM 9-2350-224-20 (Jan 66) with its 6 changes.



Exhaust doors not clogged with twigs, leaves or mud. Not mashed shut. (You can use your tanker's bar to pry the fins open.)



 Engine compartment free as possible of mud, leaves, twigs and such junk. Clean out the engine well whenever the power pack is pulled and any other chance you get.





DANGER! ATTENTION! WARNING!



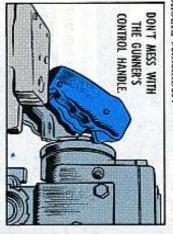
Your tank telescope can clobber you if you don't watch out

when the main gun was accidentally depressed. A couple of tankers have been bashed by the telescope as it moved upward

So here's something every tanker should remember

but not against elevation/depression. tects only against accidental traverse depression. The magnetic brake promaster switch and the turret power ON handles are "live" for gun elevation/ The Gunner's Control Handles. With Never Play With or Lean Against

any M60/M60A1/M48-family tank or in the M728 CEV. - So don't be care-LESS, be careFUL An accident like this could happen in



it gets busted your tach won't work. M60A1 tank is a useful little rascal. If The tachometer drive adapter in your adding one little step to the instructions under Photo 19 on page 2-189 of your You can easily protect it, though, by

REPLACE IT READY TO

KEEP IT TILL YOU'RE

IL

adapter and store it in a safe place. shaft, disconnect the tachometer drive After you disconnect the tachometer

TM 9-2350-215-20 (Feb 65).

you risk breaking the tach adapter.

DRIVER

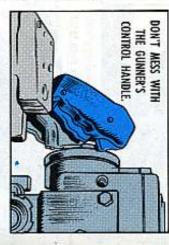
TACH

ADAPTER

Every time you pull the power pack

adapter because it won't be there to get pack you won't break the tach drive broken. When you pull/replace the power

tach drive adapter back in place. back in the vehicle you can screw the After you have the power pack safely



M60/M60A1 TANKS BORE EVACUATOR BLUES



SNIFFSHIFF directly on the metal)

The Solution? Prevention.

more than finger tight. ner wrench when you tighten the retaining ring. Just make it snug-barely Just use a little less beef on the span-

JUST SNUG ... NO MORE

wrench . . . even after firing. can unlock it easy with the spanner If it's just snug to begin with, you

says in Note 9. like your LO 9-2350-215-12 (Jun 69) bore evacuator is cleaned and lubed 'Course you want to make sure the

down on its life span.

wood as a buffer so you don't pound

(If you gotta hit it, use a piece of

to beat it off. This makes marks on the

In fact, it gets stuck so hard you have

back end of the evacuator and cuts

cleaning after a firing mission?

but you still have a hard time getting

in your TM 9-2350-215-10 (Feb 65)

You do everything the way it says

So you're singing the bore evacuator

the bore evacuator chamber off for

SAFE PLACE A NI SIHI

STORE

CONNIE

21



The Army goes to great lengths—and expense—to make your tactical vehicles water proof. They'll take just about anything nature can throw at 'em.

Z

WATER

艺

HESH

PLACES

SEARCHLIGHT VENTS

RADIOS

But no amount of expense and effort can make your vehicle and its mounted equipment hose-proof. Water under pressure from a hose is a hydro-headed monster that can cause more damage to your equipment in one washing than a whole monsoon season.

If you're the least bit careless or reckless with that hose, you can blast water
right into such things as the exhaust
pipe, electrical connections, commo
equipment, periscopes, gages, rangefinders—and a host of other items that
were never meant to be blasted with

GUN TUBES

THIS COULD
HAPPEN INSIDE ...
YOU'D NEVER
KNOW ABOUT
IT UNTIL TOO
LATE!

OPTICS

and sealing compounds...soaks insulation and cushioning material...
corrodes electrical connections...fogs up lenses and optics ...rusts out unprotected metal...and tected metal...and mildews fabrics.

It starts doing this immediately—but even worse, it keeps on doing damage, and you never know it since the dirty work is being done in hidden and dark places. Just because everything seemed to have survived your hose job is no trusty sign there was no damage. Circuit failures, fire control failures and such have a nasty habit of happening right in the middle of tactical operations, but the causes can usually be traced back to careless or neglected preventive maintenance done weeks—or even months—before.



23

water.

Your high-pressure hose is a special tool for a special job—heavy duty washing around and under the lower part of your vehicle. You blast off heavy dirt that could clog and bust up moving parts. And you clean off dirt that would work into bearings and lube points. You want to be careful about playin' that stream too long in certain places—like where there're bearings, seals, gear case vents and



Before you wash the outside of your M48 or M60-series tank or M551 Sheridan with a high-pressure hose, be sure you either tape up the exhaust outlets or keep the engine running. ('Course, when the engine is running the driver has to be in his seat.) You'll also have to either tape or plug the personnel

heater exhaust outlet.

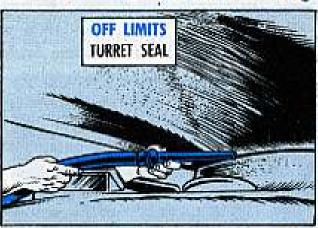
(Note: MWO 9-2300-293-20 (Jul 67) provides for installing exhaust pipe flapper valves on the M48A3 and M60 series tanks and launcher and M728 CEV. After this is done you won't need to tape engine exhaust outlets before washing the vehicle.)

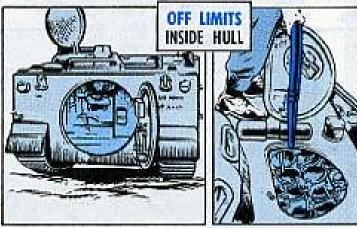


Marker Lahinkin Willer

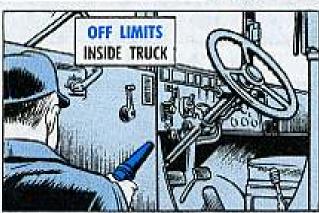
Your high-pressure hose is not for those tidy-up jobs on the top side or inside of your vehicle. For this light duty cleaning, check your operator's TM in case there're special instructions. Otherwise, you can usually take care of dust, smears 'n' smudges with a bucket o' water, a little detergent and a rag or brush. For the outside, a long-handled brush and a s-l-o-o-o-w trickle from a hose is OK.













Your high-pressure hose is a tool, sure, but think of it as a weapon, too—be mighty careful where you aim it! There's not much honor in having the "Cleanest" vehicle on the deadline.



THE ABC'S OF YOUR OHC'S ... OHT'S ... ETC'S

It all starts with the LO - that's the word.

Your equipment's LO usually identifies the hydraulic fluid (or oil) needed for the hydraulic system, recoil mechanism, etc., by the symbols OHA . . . OHC . . . OHT.

So you start looking for the FSN's for the oil called for . . . and things start getting a little sticky right away, which is a heck of a way for an oily subject to get.

You check your 'TM's . . . and there you find some oil with a bunch of Mil Specs, which have an air of awesome authority about 'em but nothing to tell you whether they're OHC, OHA, or what.

You check Fed Cat C9100-IL and there you find hydraulic fluids from here to yonder but nothing that says OHC . . . or OHT . . . or anything helpful.

Well, to make a sad story short, what you've run into is the fact that the LO's usually speak one language fluid-wise, and the supply pubs speak another. But sweat it no longer . . . here's the poop.

sweat it no

Symbol	Mil Spec	NATO Code No.	Туре	Stock Number	Quantity
ОНА	MIL-H-5606B	H-515		FSN 9150-252-6383	l qt
	[H-315] OHA			FSN 9150-223-4134	1 gal
0	STATE OF STA	IF.y.		FSN 9150-265-9408	55 gal drum
ОНС	MIL-H-6083B	C-635		FSN 9150-265-9413	1 gt
	OHC COM			FSN 9150-265-9412	1 gal
	PART PROBET TOTAL PROPERTY CASES TOTAL TOT		1	FSN 9150-265-9414	5 gal pail
	total		L	FSN 9150-255-4444	55 gal drum
OHT	MIL-H-6083C	C-635		FSN 9150-935-9807	1 qt
	C-635			FSN 9150-935-9808	1 gal
	The state of the s			FSN 9150-935-9809	5 gal pail
	The sector		Libert	FSN 9150-935-9810	55 gal drum

(NOTE: OHT can be used when OHC is called for.

WINCH DRIVE PARTS



Now you can go through normal supply channels to get winch drive-shaft parts for your M715 1-1/4-ton truck:



Bearing & Flange, FSN 2590-248-0635
Bracket Assy, FSN 2590-248-0636
Collar, FSN 2590-248-0637
Shaft, rear, FSN 2590-248-0638
Shaft, frant, FSN 2590-248-0639
Joint Assy, front, FSN 2520-484-0768
Joint Assy, intermediate, FSN 2520-484-0769

Joint Assy, rear, FSN 2520-487 3780*

*Use exception-type data on Request

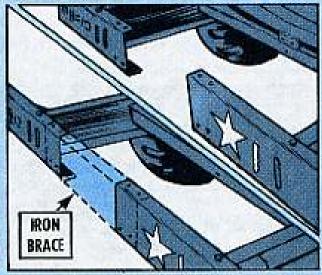
PINCH-HITTER

Dear Editor,

When the winch is taken off an M715 1%-ton cargo truck, for turn-in or repair, the bumper's left in a pretty weak condition. With no support, the bumper can be easily bent.

So, we install a temporary support—a piece of angle iron joining the 2 bumper sections. This brace is about 20 inches long and the same heft steel as the bumper. Holes are drilled in it to match up with the winch-mounting holes, and the winch-mounting bolts 'n' nuts are used to hold it in place.

CW2 Andrew J. Leyes Fort Sill, Okla.



(Ed Note — With priming and painting, per TM 9-213, that's a good fix — simple and inexpensive.)

other tactical wheeled vehicles. or gear cases. Your 5-quarter doesn't series 1-1/4-ton vehicle) is sufferin' have breather valves like you find on from pressure buildup in axle housings valves if your M715 (or other G890-No use lookin' for bum breather

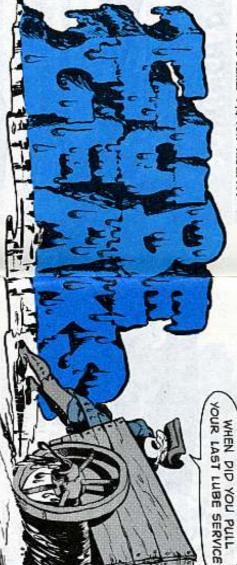
of your lube leak. This tube 'n' hose netor plugged vent line as a possible cause your master cylinder, fuel pump, dismission and transfer and even taps into work ties into your axle housings, trans-Look, instead, for a kinked, mashed



with a pipe plug of the same sizethe transmission. Replace the valve you may find a breather valve on top of into the tube 'n' hose vent system.) housing, and the bell housing is tied your transmission is vented into the bell (On early-model 5-quarter trucks



G890-SERIES 11/4-TON TRUCK ...



tion and high weather temperature, and gear cases. With heat from operapast those seals in your axle housings pressure if there's no relief through the vent system. transfer can build up real seal-poppin your differentials, transmission and Pressure buildup pushes lube out



ENOUGH IS ENOUGH!

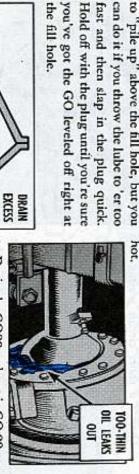
expansion as heat and pressure build up. trouble. You cut down on the room for Overfilling your gear cases is double

PROPER



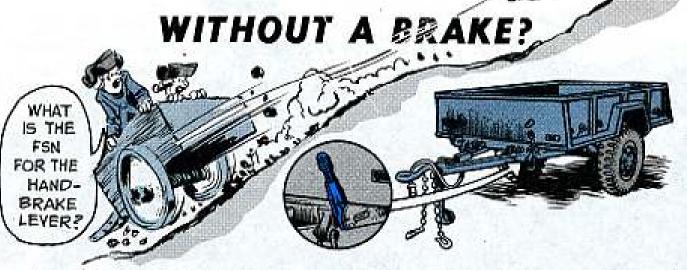
gin' up those tubes 'n' hoses. into the vent lines where it'll start plug-And you make it easier for lube to get So take it slow 'n' easy when you're there's pressure buildup in the differenpast a bum inner axle shaft seal. Maybe tial caused by a plugged or kinked vent

to "pile up" above the fill hole, but you gear case—only up to the fill hole, no pumpin' GO into a gear case—any You may think GO isn't thick enough not yet. If yours is a new 5-quarter, it's tials. This's too thin if you're where it's probably carryin' GO 80 in the differen-But don't start tearin' things apart-

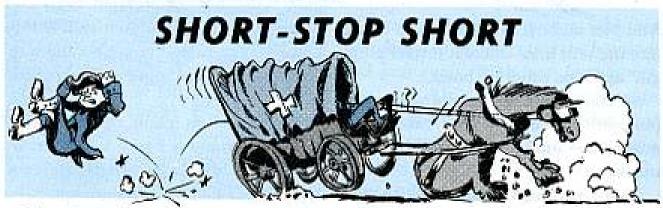


(Oct 67). the lube specified by LO 9-2320-244-12 Drain the GO80 and put in GO 90-

be GO scepin' out of the differential	60 TO 60 90 Sloppy steering knuckles? This could	M A	LEVEL
Ten-correction	GO - LUBRICANT, GEAR,	OF - OR LUNE, ENGINE	LUBRICANTS
1	60 80	OE 30	*bove +32"F
1	6075	Of 10	HOTE TO -10"
[Q.	g_	JAULA



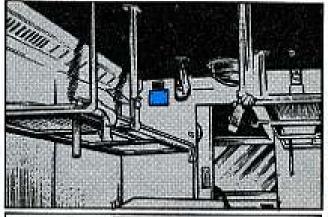
Your search has ended if you're looking for the handbrake lever FSN of the M101A1 3/4-ton cargo trailer. It's FSN 2530-936-5284 (PN 10926073). If you need the entire brake kit, it's FSN 2530-973-2504 (PN 10926130). Check TM 9-2330-202-14P (Aug 62) for the knob adjustments.

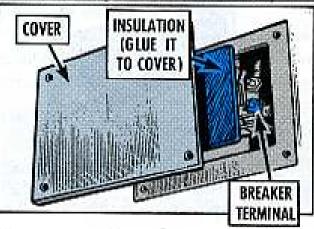


There's a short circuit waitin' for you in your M725 1-1/4-ton ambulance. A bump or push against the partition may cause the circuit breaker access cover to hit the breaker terminals underneath — PHHHHT — short circuit. So cut an insulating pad, 3-3/4-by-2-3/4-in, from 1/8-in thick neoprene material and glue it on the inside of the cover.

A 36-by-36-in sheet of neoprene. comes under FSN 9320-945-6560 in Fed Cat C9300-IL-A (Apr 70).

Use adhesive, FSN 8040-664-4318 (that's 1 pint—smaller and larger amounts are in Fed Cat C8000-IL-A (Oct 69), Table 260, Spec MIL-A-3092, Type II).





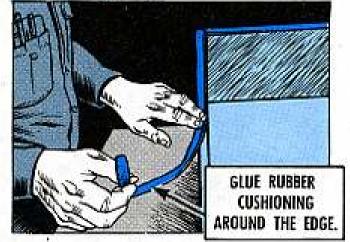


You can get rid of the rattle in the 1-1/4-ton truck battery box by using your head.

With rubber pad cushioning, FSN 9320-824-8816, and adhesive, FSN 8040-262-9031, your handy fix-it formula comes naturally.

You just scrape the box cover edge clean, snip a new strip and glue it on.

This way, you'll enjoy the quiet ride.





Dear Half-Mast,

We get gigged on some of our 21/2-ton and 5-ton trucks because inspectors smell brake fluid when the brakes are operated. When we tear down the system, we can't find anything wrong. How do we stop the smell?

SSG W. L. S.

Dear Sergeant W. L. S.,

You don't stop the smell. It's normal for a vehicle with its air-over-hydraulic brake system vented to the engine air intake.

If your brakes operate OK and your master cylinder's up to snuff on brake fluid, you're in the clear. Half-Mast

31



or machine gun your buddy's carrying beside you. partners. So it deserves equal maintenance time to stay as combat-ready as the rifle The M79 grenade launcher is as tough in combat as its other infantry weapons

make it unsafe to operate or damage the launcher. The real serious things are in is to do a regular PM check for any rough spots that could cause a malfunction, The only way to be absolutely sure you don't run into nasty situation surprises

Stock & Fore End Assemblies

RECOIL PAD - Rubber fray-

ed, battered, loose, missing; screws stripped, loose,

Dry, chipped, splintered; screw missing, sheared, FORE END ASSEMBLY -

SLING - Broken, frayed, won't hold, weak rotting; clamps missing,

splintered, cracked. Plastic: STOCK — Wood: Dry (rub in touch-up paint to cover Scratched or chipped (use light coat of raw linseed oil),

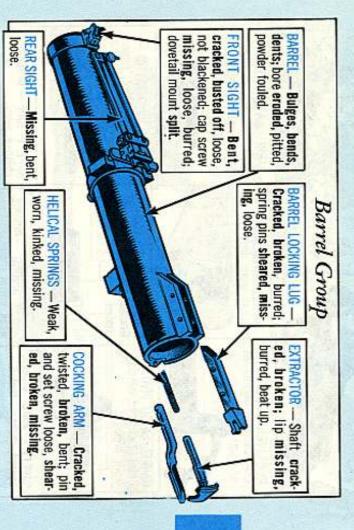
broken, missing; plugs miss-

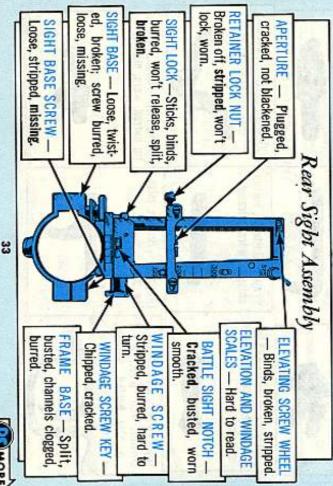
ing, loose

sheared, missing. SWIVELS - Bind twisted; screws loose, stick

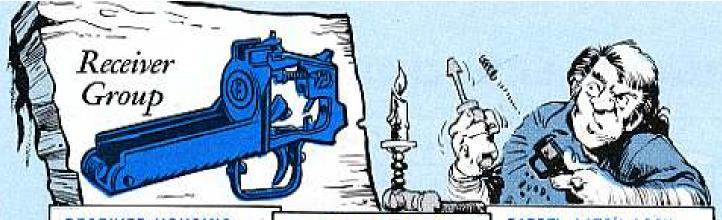
busted; screw hole split - Missing, sheared, loose, RECEIVER RETAINING SCREW burred; washers missing

GREVADE LAUNCHER

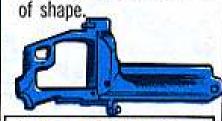




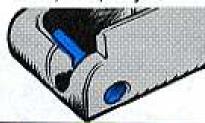
32



RECEIVER HOUSING — Cracked, worn, twisted out



BARREL FULCRUM PIN -Loose, worn, dirty.



BARREL LATCH LOCK — Flattened, split; channels burred, split, missing.



BARREL LATCH PIVOT — Cracked, chipped, missing, worn, broken.



BARREL LOCKING LATCH — Cracked, split, bent, edges chafed.



SAFETY ACTUATOR — Broken, cracked, edges worn.



SAFETY — Split, broken, burred, channels fouled.



SAFETY SPRING — Missing, weak, out of shape.



SAFETY BAR — Cracked, chipped, worn.



HAMMER — Cracked, chipped, burred, broken, missing.



SEAR — Battered, burred, chipped, worn, missing.



COCKING LEVER — Busted, missing, worn, battered.



TRIGGER GUARD — Broken, twisted, won't pivot; detent assembly busted, missing, won't release or lock.



TRIGGER — Broken, missing, bent.



FIRING PIN — Bent, broken; tip burred, worn, missing.



HELICAL SPRING -

Kinked, weak, ends burred, worn, missing.



RETAINER — Threads stripped, burred, holes plugged; missing, loose (tighten with combination tool).



TOOLS - Broken, Missing

SMALL ARMS ACCESSORIES CASE . . . FSN 1010-474-5462



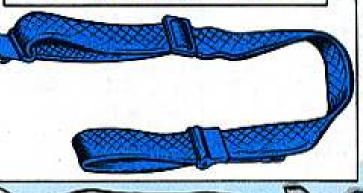
Tools

SCREWDRIVER & WRENCH COMBINATION . . . FSN 4933-736-8575 SMALL CLEANING BRUSH ... FSN 1010-474-5468

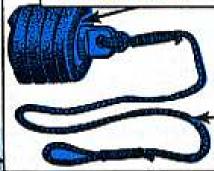




SMALL ARM SLING . . . FSN 1005-654-4058



BORE CLEANING BRUSH . . . FSN 1010-474-5466



CLEANING BRUSH THONG ...FSN 1010-474-5465

Repair Parts

Unit armorers can replace these parts:

PLUG, RECOIL PAD . . . 1010-065-9646

SCREW, EXTERNALLY RELIEVED BODY . . . 5305-921-6157

WASHER, LOCK . . . 5310-824-5503

PIN, FIRING . . . 1010-704-6621

RETAINER, FIRING PIN . . . 1010-704-6623

SPRING, HELICAL . . . 1010-704-6606

SCREW, MACHINE (2) . . . 5305-899-7435

Pubs

PUBS — Missing, not readable

TM 9-1010-205-12 (Feb 61), C1 (Apr 65), C2 (Jan 67)

TM 9-1010-205-24P (Jun 68)

FM 23-31 (May 65), C1 (Aug 67)

Preservatives

Armorers should have these

for the stocks:

LINSEED OIL, RAW . . . 8010-221-0611 1-gal (for wood)

PAINT, TOUCH UP, Color No. 30045 . . .

8030-145-0042 16-oz spray can (for plastic).





This is a selected list of recent pubs of interest to organizational maintenance personnel. This list is compiled from recent AO Distribution Contars Bulletins. For complete details see DA Fam 310-4 (Jan 69), and Ch 2 (Oct 69), TM's, TB's, erc.; DA Pom 310-5 (Jul 69), and Ch 2 (Jon 70), SC's and SM's; DA Pom 3107 (Dec 69), MWO's and DA Pem 310-7 (May 69), COMSEC Pubs.

TECHNICAL MANUALS TM 3-1055-218-12, Oct, Launcher, Rocket, 66MM, 4-Tube, XM202. TM 3-1310-243-10, C2, Dec, XM651E1 Tactical CS, 40MM Cartridge. TM 5-2410-227-15, Dec. Traciors, Tracked, Light. TM 5-2410-231-20P, Dec, Tractor, FT Med. TM 5-3005-245-20P, Nov. Loader, TM 5-3810-289-20P, Nov. Crane-Shovel, Crawler Mild 12% Ton. TM 5-4120-222-14, Nov. Air Cond. 18,000 STU Compact. TM 5-4120-273-20P, Dec, Air Cond, 6000 BTU. TM 5-4120-308-15, Nov. Air Cond. 18,000 BTU, Compact_ TM 5-4120-312-14, Nov. Air Cond. 18,000 BTU, Compact. TM 5-4120-312-24P, Nov. Air Cond. 18,000 BTU, Compact. TM 5-4120-333-12, Oct. Air Cond. Tir Mid, 18,000 BTU/HR. TM 5-4310-247-20P, Dec, Air Comp. 250 CFM. TM 5-4310-339-L5, Dec. Comp. Air 15 CFM. TM 5-4610-208-14, Oct. Water Puril, Unit. TM 5-4610-210-14, Nov. Equipment. Water Purif, 100 GPM. TM 5-4610-223-15, Sep. Water Puril, TM 5-4930-221-24P, Nov. Equipment: Fueling Sys. TM 5-4930-222-15, Dec. Drem And Pamp Unit, Liquid Disp. TM 5-6115-238-20P, Dec. Gen Sels, 60 KW. 60 hertz.

TM 5-6115-275-15, Jul. Gen Sets.

10 KW, 60 herts.

TM 5-6115-293-20P, Nov. Cen Sets, 100 KW, 60 heriz, TM 5-6675-205-20P, Dec. Theodolite. TM 5-6675-227-25P, Dec. Survey Instru, Electronic, Microwave. TM 9-1340-202-12, Oct, Honest John, 9-1430-383-20P, Nov. Pershing. TM 9-1430-505-12/2, Nov. Hawk. 9-1430-512-15P, Oct. Simulator Station AN/TPQ-21 (XQ-1) Hawk, TM 9-1440-250-25P/1/1, Dec. Nike-Herc. TM 9-1440-380-20P, Nov. Pershing. TM 9-1450-379-20P, Dec. Ferning. TM 9-2320-218-10, Cl, Dec, 14-Ton Trock, M151. TM 9-2330-211-14, Oct, Semitroller, M172, M172A1. TM 9-6625-1856-14/2, Nov. Chaparral, TM 9-6625-2464-15, Dec. High Vollage Probe XM163 20MM Gun. TM 9-6625-2466-15, Dec. Vallmeler, RF, XM 163 20-MM Gen. TM 9-6625-2468-15, Dec. Generalors for XM163 20-MM Gun. TM 10-3930-242-20P, Nov. 6000 lbs Anthony and Chrysler Forbills, TM 10-3930-243-20P, Jan, Rough Terroin Forkildt. TM 11-5820-510-12-1, Sep. Radio AN/PRC-41A.

TM 11-5985-324-15, Oct. Anienno

TM 11-5820-783-25P, Dec. AN/TRQ-

TM 11-5820-784-25P, Dec. Receiver

TM 11-5825-242-10, Dec. Receiver

TM 11-5825-242-25, Dec, Receiver

TM 11-5825-242-25P, Dec, Receiver

23 Rodle,

R-902/GR.

AN/TRO-23,

AN/TEG-23.

AN/TRO-23.

Grp AN/TRA-37.

ESC's TM 5-3800-203-ESC, C1, Dec, Crane-Shovels, Truck Mid, 20 Ton. TM 9-1005-206-ESC, Dec. XM167 20-MM Gun. TM 9-1015-223-ESC, Nov. M67 90-MM Recoilless Rifle. TM 9-1400-250-ESC, Nov. Nike-Herc, Imp Nike-Herc, Nike-Herc ATBM.

TM 9-2200-224-ESC, C1, Nov. M113. M577, M106, M132 Corriers. TM 9-2320-212-ESC, May, %-Ton Truck M37, M3781, M43, M4381, M201, M2018, TM 9-2320-218-ESC, Mar, Treck, M151, M718. TM 9-2350-330-ESC, Dec. XM163 20-MM AA Artitlery.

MODIFICATION WORK ORDERS

9-1240-306-40/1, Feb Telescope, Panaranic M113 9-2350-217-30/16, Jan, Installation of Collinator, M109 Howitzer. 11-5810-214-45/8, Jan, COMSEC Equip Code 214. 11-5810-221-35/4, Jan. COMSEC Equip Code 221. 55-1510-201-30/6, C2, Jon, U-8. 55-1520-210-30/5, C1, Feb. UH-10. 55-1520-221-30/19, Dec. AH-1G. 55-1520-221-30/24, Jon, AH-1G. 55-1520-221-30/28, Feb, AK-1G. 55-1520-228-20/1, Jan. OH-58. 55-2835-203-30/1, Jon, CH-47.

LUBRICATION ORDERS

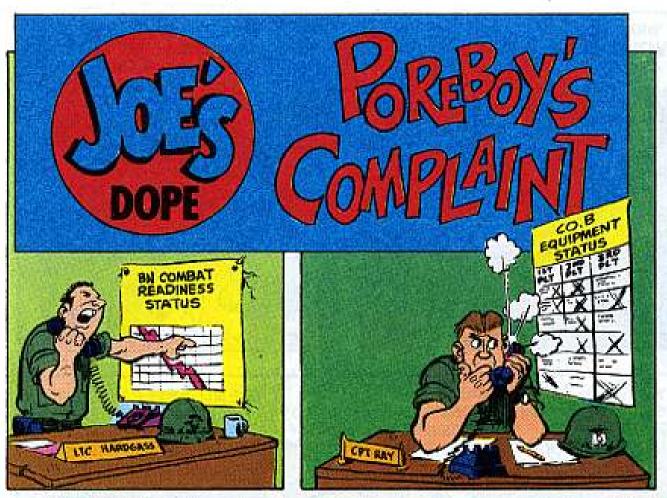
LO 5-4310-339-12, Dec, Air Comp. 15 CFM 175 PSI. LO 9-1005-286-10, Nov, XM167 20-MM Gen LO 9-2320-224-12, Nov. M114 LO 10-3930-619-12, Nov. Trucks, Forkliff, GED, 2000 pound cap.

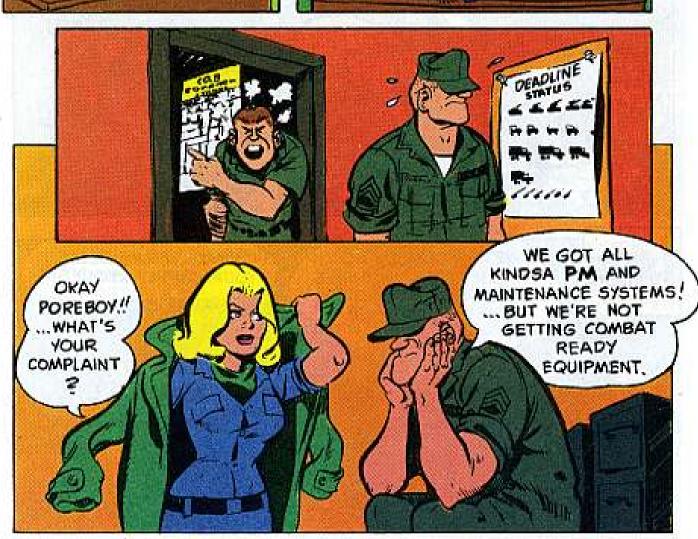
MISCELLANEOUS

AR 220-1, C1, Dec. Unit Readings. DA Cir 385-24, Jon. MISI-Series N-Ton Truck Safety. DA Form 2408, Jan, Equipment Log Assy (Records): DA Form 2418, Jan, Backley Status & Workload Account Card. SC 4935-95-CL-A59, Oct. GM: Tool Kit, Missile Repairman, Lance. 5C 4940-97-CL-E03, Nov, Shop Equip. Gen Perp Repair, Semi-trailer Mounted. TB 750-97-28, Feb, Maintenance Expenditure Limits For Mil Std Eng. TB 750-242-3, Nov. IM-9/PD, IM-93/ PD, IM-147/PD Radio Equip.

CMM7 Coming?

If you've got multifuel engine trucks, you'd better make sure you're covered on DA Pam 750-11 (May 68) — The Multifuel Engine Operator, You've got to have a copy for every multifuel operator.















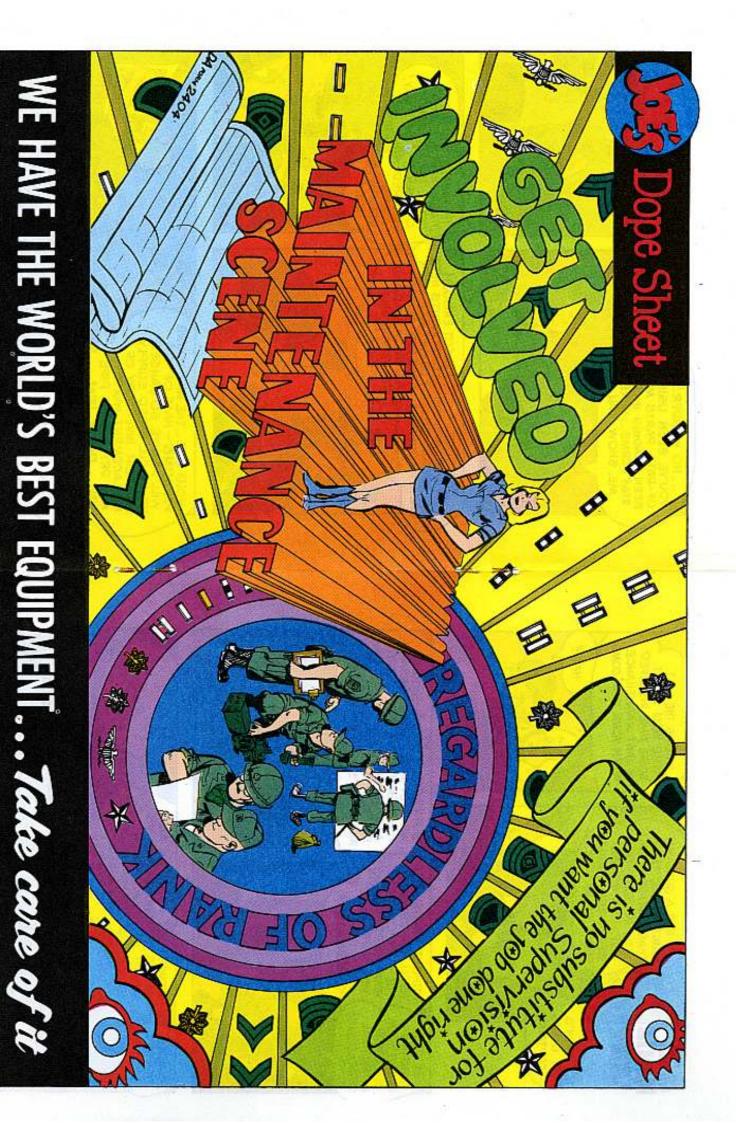










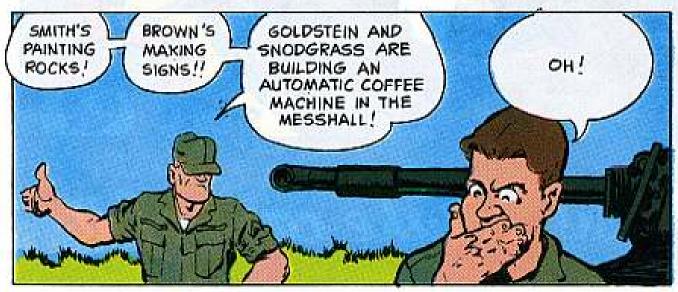












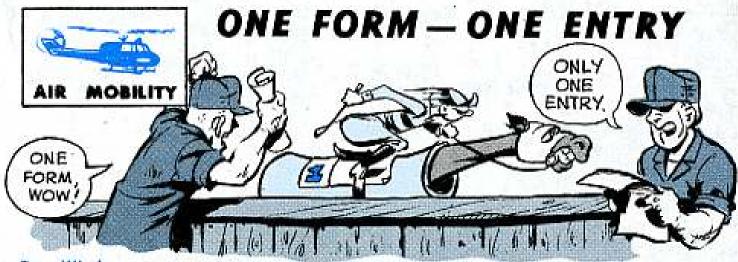












Dear Windy,

Para 3g in TM 55-1520-221-ESC (17 Jul 69) says, in part, that we should fill out a worksheet for each subsystem and/or component.

Does this mean we have to complete a couple dozen DA Form 2404's on aircraft time-change components in order to come up with our HueyCobra ESC rating?

SP6 K. J. T.

Dear Specialist K. J. T.,

Nosir-e-e-e. One DA Form 2404 for the aircraft will do the trick. Para 3g requires additional forms for the subsystems only.

The new ESC TM's actually save some pencil pushing because you no longer list time-change components. You consider the components, tho, in your rating.

Eyeball the log book forms to get your readiness rating for the next 90 days.

Then, make a one-line entry on the 2404 for the aircraft. When you fill out the worksheet put the color rating in block 10 and the status symbol in column b. Enter the bird nomenclature in column c.

TO DESCRIPTION OF THE PARTY OF		TACK HELICOPTER AH	-/G			
200	THOUSE STATE IN MAN IN MAN A MANUAL M	N/A 69/029 ES				
	68-17621 N/A 742 N/A	ed line				
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	TM 55-1520-221-ESC 17JULY 69					
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Fill out the worksheets for the avionics and armament subsystems and file them in back of the bird worksheet.

'Course, the end item rating goes across the bottom of the bird's 2404.

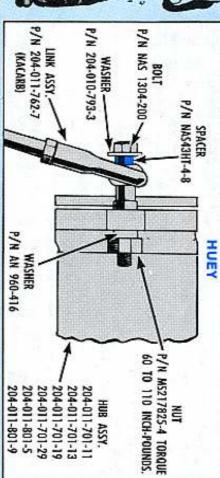


STACKED RIGHT?

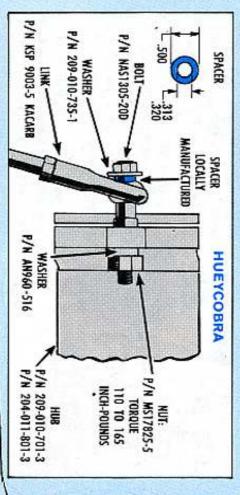
Take the tail rotor pitch change link stack-up with the new Kacarb bearing, for example.

With full right pedal and a partial flap of the tail rotor hub and blade, the inboard part of the bearing can contact the OD of the bolt washer—preventing the hub from hitting the static stop.

To prevent bearing damage, you can put spacer, P/N NAS43HT-4-8, between the bearing and the bolt washer on your Huey. Be sure you put the spacer side of the bearing inner race toward the threaded end of the bolt.



On the HueyCobra, make the spacer from washer, AN 960-C416, by opening up the ID to .013-.320 inch. Assembly is the same as for the Huey.



47

MORE

BABY NEED SHOES?

The purpose of the skid shoes on your bird is to take the high abrasion during landings and save the skids. Shoes come cheaper than skids. So, eye the shoes for cracks, loose hardware and wear.

The bird can be jacked up to get a look at the shoes. Easier, still, have your favorite throttle jockey hover the bird as you make your check.

You can also quickly measure for excessive skid spread by using a measuring stick, made locally, based on the limits in the organizational maintenance pub.

Before you get a hole in badly worn shoes get a new pair.

New heavy duty shoes for the HueyCobra are now in the supply system. FSN 1630-462-8865, P/N 209-050-004-3, will get you the rear shoes. FSN 1630-462-8862, P/N 209-050-004-5, is for the front shoes.



NO JUMPING, PLEASE?

WHERE CAN A 500 LB. RABBIT JUMP? ANYPLACE BUT ON MY HUEY

Watch your step when moving around on your Huey or HueyCobra—
it's not built like a tank.

The cabin roof, transmission and engine decks are honeycomb construction to cut down on weight. The decks can't take Connic's spiked heels or a 200-lb mechanic leaping from the cabin roof to the engine deck. Something's got to give.

Constant jumping will result in bonding separation — lots of sweat and elbow grease for support to make the repairs.

Another point to ponder. Never put a jack on the engine deck to raise the engine during a mount or bearing change or you'll crush the honeycomb, for real.

Save the deck. Use the engine hoist.

Pull PM on the decks by checking for bonding separation. Early repairs save moola.

Tap the bonded areas every few inches with a key. A bonding void will give you a dull, soft click sound. A sharp, hard sound means the honeycomb is OK.

USE COVERS

The T-53 engine filter particle separator-and-screen does a first-rate job of preventing FOD in flight. Working on the bird with those parts off is something else again.

Sure, the parts come off on an engine cleaning, for example. But leave the separator and screen in place if at all possible so dropped hardware won't get sucked into the compressor.



Also, keep track of your tools so you don't leave 'em behind.

If the engine has to be run with the upper half of the separator off be sure you take the collector boxes and sponges out of the lower half, or the engine will swallow them (ugh!!).

Eye the lower half of the separator for safety wire, cotter pins and the like when you put the separator back together. When you do work over the engine on the rotor head and transmission, with the separator off, play it cool. Take time to get a suitable cover over the engine inlet so no clipped safety wire or other debris lands in the engine.

Support ships an engine to you with an inlet cover that'll do the job.

To head off FOD after maintenance is completed eye the engine inlet area. A little prepping will keep your baby at her best.





LUBE SWASHPLATE

Pulling complete PM inspections will help keep your baby off the "grounded"
list for unscheduled maintenance.

Make sure you eye the lube chart in the organizational maintenance pub. If rotating parts don't get greased they're going to fail . . . autorotation, or worse!!

Take the swashplate, for example. The main reason for swashplate bearing

failures is lack of grease.

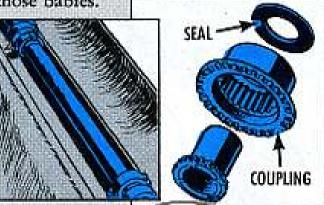
Unusual operating conditions, such as dust and high gross weights, now call for you to lube the bearings every 25 hours.

To do a thorough job, have your buddy rotate the mast by walking the blades thru while you shoot the works at 30-degree intervals around the swashplate. That'll save you the trouble of disconnecting the drive links and retorquing the hardware.



EYE COUPLINGS

The tail rotor drive shafts on your baby turn over at a high RPM. So, when one of the flexible couplings along the drive shaft goes dry, tail rotor control is lost in a matter of minutes. Which is a pretty good reason for focusing on those babies.



THERE'S

If a coupling scal is not scated right grease will be slung from the coupling —you can spot it on the drive shaft cover. A dry coupling's not far off.

The seal may even work out of position as the hours are built up on your bird. So, during your PMP take out the shafts.

Gently bend the female coupling down while turning the coupling. Any scal cuts, cracks or poor scating means some parts need changing.

When you put in a new seal make sure you don't cut or nick it. Be sure the seal is seated right. The lube chart calls for packing the coupling splines with grease every 500 hours. If you're operating in boonieland where the dust flies thick and fast you've got unusual conditions. Repacking the coupling every 300 hours would be more like it.

HANGER BEARINGS OK?

The drive shaft hanger bearings are permanently greased—no sweat. But they do wear out.

If you get too much bearing axial play a drive shaft may be out of balance.

Eye the shaft to see that the right number of balance weights are present and accounted for.

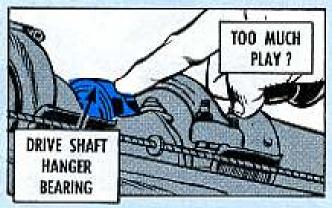
If the drive shaft has more than a single empty bonding imprint next to the last balance weight, eye the last weight for this vibro-etched info:

BALANCED (date) ARADMAC

Drive shafts balanced by ARADMAC are serviceable. Other shafts which have more than one weight missing have to be removed due to missing weights.

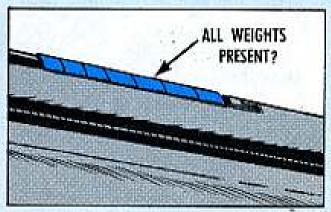
Have a look-see at the 42 and 90degree gearbox mounts to make sure that mounting holes are not elongated. That condition could mean a gearbox is loose and is transmitting vibrations along the shaft.

Make sure all hanger bearing hardware is tight.



Focus on the single-row ball bearing by disconnecting the drive shafts from each side of the hanger.

Slowly rotate the coupling. If the rolling elements come to a definite stop, then jump, and you notice an increase in roughness, the bearing has had it. Put in a new one.



OOPS! CLICK CUCK'TY CUCK'TY CUCK'TY

If a suspect bearing is removed from the hanger you can make the rolling check by holding the inner race and slowly rotating the outer race.

You'll get some bearing roughness after a couple of hundred hours of operation on bearings. This roughness is caused by the lubricant. The bearing should be OK.

Yessir-e-e-e, keep up with the latest and do your PM. It's a combination that will keep your baby on the "available" list.

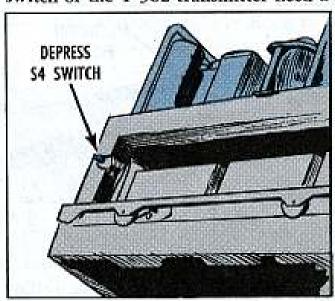




AN/TRC-24 radio set "little things" can build up to big headaches quick-like if you let 'em get a start on you.

Like switches, f'rinstance.

The S4 interlock switch of the PP-685 power and the S110 interlock switch of the T-302 transmitter need a



gentle shove occasionally to keep 'em out of trouble.

Like, when you're putting either component back in the rack, depress the interlock switches until they clear the frame. Otherwise, you can break 'em . . . and put the component out of business.

Another thing to watch for: Age gets to the plate caps of the V1 and V2 (JAN Type 836) tubes in the PP-685, and the



plate caps pull off when you disconnect them. Either that or the glass of the tube cracks at the base of the plate cap. A quick look when you service the tubes can keep you operating.

Final point: You never ground the K1 relay to the chassis—it'll burn out parts.

TRANSISTORS CAN BLO-O-O-W



Speedy action; steady performance.

These're a coupla ways your radio set transistors outdistance the old vacuum tube.

But there's one big point about these dainty darlings that you'll need to watch. They can't take much over-voltage.

You get fluctuation when you start or stop your engine while the radio set is turned on. So, shun these power-surge starts and stops and you'll save your radio set a heap o' downtime due to damaged transistors.



PROBLEM ?

HANG UP HANDSET

ALL IT

TAKES IS A

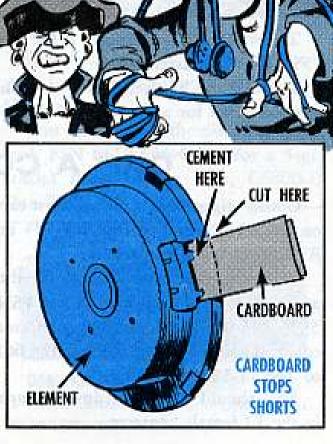
SIMPLE FIX.

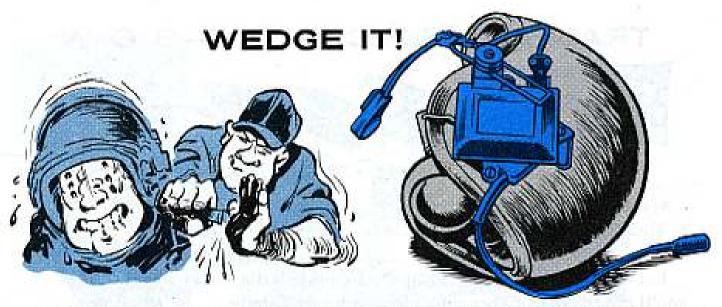
A jar, a drop or a bang can shake the contacts of the receiver and transmitter elements loose in your H-189 handset . . . and short 'em out.

So, if you can't get the word out . . . or in . . . get your organizational repairman to pull a simple fix.

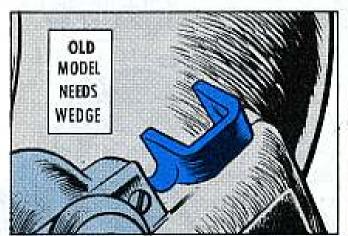
Remove either or both elements, push the contacts toward the inside . . . and slip a doubled piece of thin cardboard (like an index file card) between the metal lip of the element and the base of the contacts.

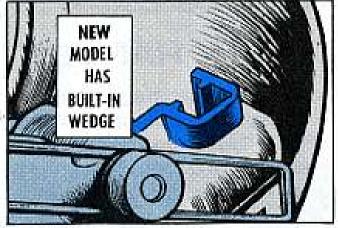
Double the cardboard so it's about an inch or so long . . . to give you enough grip to maneuver it. Cut it to fit the groove over the base contacts. When you get it in place, snip the edges flush with the outside ring of the element. Then, dab some Epoxy (FSN 8040-847-6387) around the cardboard and the contact bases to keep the cardboard in place.





If the microphone plug of the early-model MK-1039/G headset-microphone kit on your CVC helmet is loose, chances are you need a special wedge kit to keep it snug.





The wedge kit is necessary if the plug's loose where it connects with the SA-1552/G switch assembly.

So, turn the headset-microphone in to your support so it can go to your mission depot for application of the wedge kit.

CAP A CONNECTOR

Gettin' gigged for a missin' dust cap on the front panel of that RT-524 or RT-246 receiver-transmitter?

You can go after a new cap for the antenna control connector with FSN 5935-823-0752, electrical connector cover. It's listed on Pg 11, Ch 5 (Oct 66) to TM 11-5820-401-20.

This should cut down dust damage in the 12 female contacts.





Is your new BB-622B/U battery for your AN/PPS-5 radar set balking at its first charge?

Unwind. It's following the pattern of all the little B's bought under contract DAAB05-69-C-3083.

So-o-o-o, look for that contract number on the battery and do this:

Lay it on its long side about an hour after you fill it (like instructions in the filler kit tell you). Keep the cotton wadding in the cell vent holes while it's lying down.

Let the battery soak in that position for at least 48 hours. Set the battery upright, remove the cotton wadding and tighten vent valves to 4 in-lbs with a torque screwdriver, which is in your TK-90 tool kit.

Then, it should accept its minimum 8-hr charge.

DISTILLED WATER?-WELL...



Baby your batteries, man . . . baby 'em with scads of TLC, pounds of PM and distilled water.

'Course, nobody's gonna say you can't use clean rainwater or drinking water in lead-acid batteries when you need to—but, regardless, stick with distilled water when you can get it. It's top choice.

If you're usin' nickel-cadmium or silver-zinc batteries, use distilled water only for the cells. No substitutes. Reason is, the slightest touch of impurity in the water can taint the nickel-cadmium or silver-zinc cells.

If you're out of distilled water, route your batteries to support for the pure H₂O.

You can go after the distilled water, with FSN 6810-356-4936 (for a 5-gal bottle) listed on Pg 3.13, C6800-IL (Jan 70).



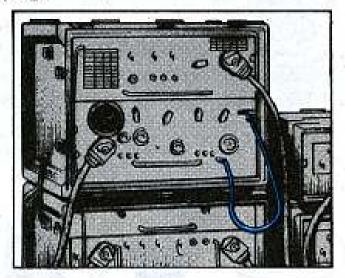


Cords on the AN/TCC-7 telephone terminal stick out in a shelter like super spaghetti, waiting to make you part of the sauce.

Which means they get snagged, dragged, hauled, mauled, weighted and baited to the point of breaking. Or, at least, fraying.

Which means that occasionally, while dodging the cables, eyeball them to be sure they're still in good enough condition to do their job. If they're frayed or broken, get 'em replaced.

While you're still wired, think about the measure cord and plug on the TS-760. When you're testing components like the AM-707 and TA-228 with it, push the plug straight in and pull it straight out. Keeps it from bending.



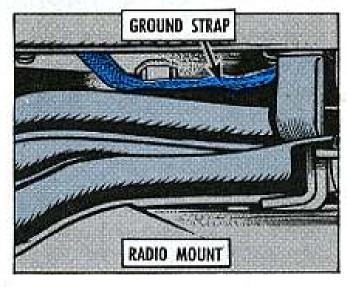
GROUND STRAP SLAP

Funny thing about ground straps on radio sets and switchboards. If you don't attach 'em, the equipment won't work so good.

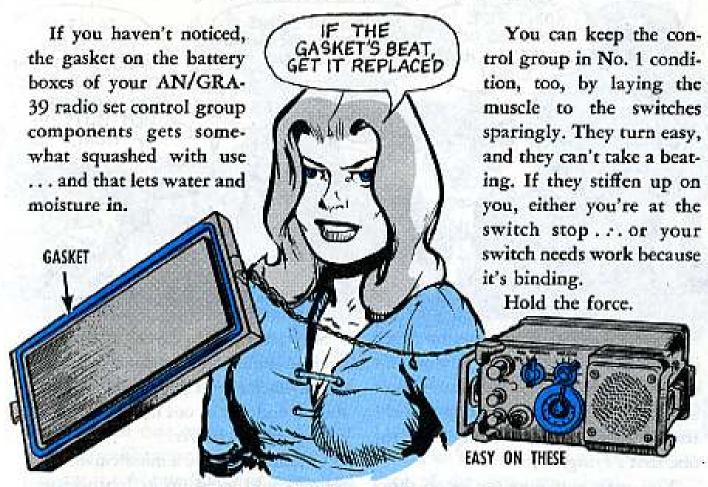
Like, f'rinstance, lack of ground straps on radio mounts can downright damage the radio components.

And, if you don't have a ground strap on your switchboard, you just may not have the word on where Charlie is.

Duzzat say somethin' to you?



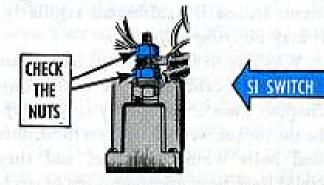
GRA-39. SAVERS



GRC-142 RTT DC

You say the DC voltage to your AN/ GRC-142 radio teletypewriter set is fluctuating?





Before you call in the repairman check the area where the DC connector hooks to the power supply. The screws around the jack may be loose, causing voltage variance.

Also check the 2 nuts on the S1 switch at the power entrance panel.

If the nuts are loose, get 'em tightened.

If everything's snugged down and you're still getting fluctuating power, call the repairman.

COMBAT... HE'S THIS HOSS INTO KAINT RIDE SARGE, I SICK THERMOMETER SAYS NONSENSE... THIS HE'S NORMAL OUR EQUIPMENT'S IT'S BUSTED MAYBE TEMPERATURE OF THE GENERAL'S HOT BUTTERED WHEN I TEST THE ... CAINT BE WORKS FINE RUM

TESTIN' HOSS
IS DIFFERENT SO
Y'GOTTA CALIBRATE
JT. SEE TB 750-236.

CALIBRATED AFORE

ROD WE WUZ ISSUED

How'd you like a lie detector to see if your gal's lying to you? It wouldn't do much good if the detector wasn't accurate. She might be telling you the truth and your detector might be the one that's lying.

You may run into the same thing with your test and measuring equipment, Unless it's calibrated regularly, it may be lying to you.

Why's it so important to have your equipment calibrated? A cracked-up chopper's not a very pretty sight. Maybe the torque wrench used on those nuts and bolts wasn't accurate, and they could have been under-torqued or over-

Or, the control cables may not have had the right tension because of a faulty tensiometer and the pulley was worn. It can cause early parts replacement too.

So you're not a flyer. Maybe you operate commo equipment. If your frequency meter is off you might miss your station and you're out in the boondocks calling for firepower.

Or, maybe you're a missileman. Your round could wind up in Jebru instead of on target if your instrument's lying to you.

TB 750-236 (Oct 69) tells you what items of test and measuring equipment (T & ME) need calibration and when they need it.

Calibration requirements are based on the built-in stability and reliability of an instrument as well as its actual application. The same item may have a different calibration interval when the application is different. For example, USAVCOM specifies a 90-day interval for torque wrenches. Most commodity

commands specify 180 days. So, you have to use the interval that's in TB 750-236 for the test equipment you're calibrating.

The outfit that owns the equipment needing calibration is responsible for getting it calibrated the first time. You submit a calibration request on DA Form 2416. And your outfit is also responsible for making sure the item's available when it's scheduled for recalibration.

You can also request calibration of your test equipment any time you think it's not accurate.

Chapter 6 of TM 38-750 tells you the records and procedures to use for scheduling, recording and reporting calibration. You can use DA Form 2416 or DD Form 314 for scheduling calibration service. Since services can't always be

done on the date scheduled, TB 750-236 allows a 10 percent variance in time.

When you get a piece of test and measuring equipment that has no DA Label 80 on it, or it's beyond the "due date", or there's doubt as to the accuracy of the item, you should request that it be calibrated.

Your calibration people can't calibrate your equipment if it's not in operating condition. So, never send your
equipment to be calibrated if it's not
working. Get it repaired first. You use,
a DA Form 2407 to request repair.

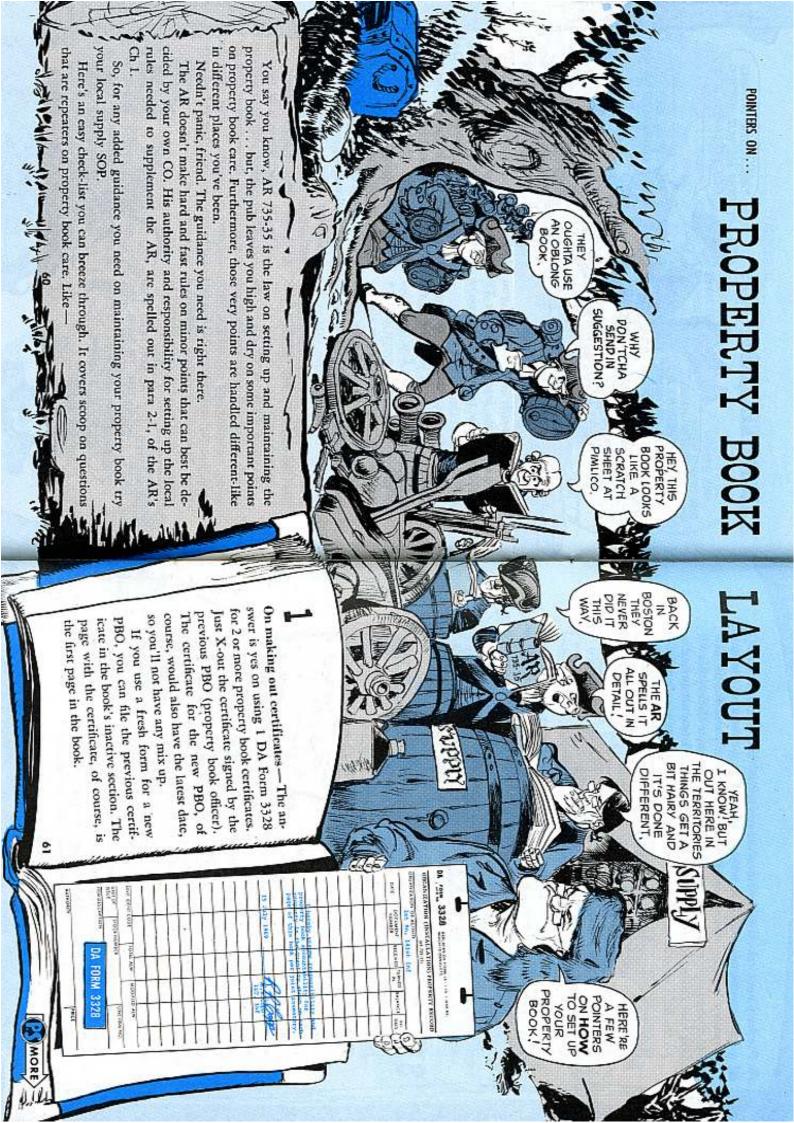
The DA Label 80 on your piece of test and measuring equipment will clue you as to when the equipment's due for the next calibration. It tells when the calibration was done last and when the next one's due.



HARNESS TESTER, SIR!

OUR'S





Property hook take-over — Unless the appointing orders on the new PBO quote a specific take-over date, it's normally SOP to get the joint physicalquote a specific take-over date, it's normally SOP to get the joint physicaltake-over orders and the old PBO is marking time, it's best all around to man's signature, as soon as possible. Since the new man already has his inventory business squared away - and the book prepared for the new get the book transferred soonest.



CONGRATULATIONS SCOU AM A

DISINTERESTED

YOU'RE

PARTY

Who's a DO (Disinterested Officer)?

— Any officer who's not directly related - Any officer who's not directly related a page is not legible. to the supply operation can serve as a need a new page anytime just I line on made to replace a damaged page. You DO, and certify that a new page was

> Win into The second secon

a polite request to do the chore. The writing or by a tap on the shoulder and page or a slew of pages-may be in officer. invite can come from the CO responsible for the property, or from the supply Appointment to DO duty-for I

Bal Brought Fwd from torn page II SALVES OF DA FORM 3328

damaged page, is signed and dated by the DO. The certification goes on the line following the balance brought forward entry. A brief note certifying that the balance brought forward info is from a

The damaged page goes in the book's inactive section

quence, also keeps it in alphabetical order. That's cause equipment is lined Page sequence - Setting your book up in LIN (Line Item Number) seup alphabetically for line-item numbering. See SB 700-20.

your operation, check with whoever sets up your supply SOP, and get an OK for your set-up. The AR says the book may be kept in LIN order. If the FSN sequence, or some other filing system, is more convenient to

LIST EM ACCORDING TO SIZE



NUSKE

CANNON

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action on the item . . . not the header page header page, in FSN sequence - and they take all the supply have under that LIN. The separate pages are filed behind the covered by the same LIN, you need a header page to record And, you need a separate page for each different FSN you FSN's using same LIN - For different FSN'd items that are the equipment's LIN, description and authorized allowance.

- ONLY HEADER FSN) of a LIN family, you can skip the header page. The 1 HAND, PAGE the info on the equipment, and the supply transaction info, page covering the FSN you actually have on hand takes all When your on-hand balance consists of only 1 number (1

TO-885-1571 MS-97

(SQUIRREL)

MUSKET

(KOMITING SECT.) FOU 1134-SGT-BA

MUSKE

CHILLIAN

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.000

This goes even though the sub item is in your property book as an authorized LIN from elsewhere in your TOE. Sub items-When you're issued a substitute item for an authorized item you need 2 pages. One for the authorized item, the other for the substitute

SUBG FER. page into the LIN sequence, somewhat. item page you will note, "Substitute for LIN time a LIN will be out of order. But, in the item description block of the sub item it's subbing for. If you keep the book in LIN sequence, this is the only You file the page for the sub item behind the page for the authorized "-so that ties the

TEM



MUSKET, PIKE OR BROOM?

Total Alw/Modified Alw - The total allowance block takes the total alspecial issue. The modified allowance may be more or less than the total changed by an activation order, movement directive, general order or, lowances authorized by your basic authorization document (TOE, MTOE, allowance. CTA). The modified allowance block records the total allowance as

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WABCAA GEN SET, GAS ENG 3KW 400 CYL TOE 6-4256 @ 1341.00 6115-012-1993 ALL TWISH

unit's operating document . . . not the only to specific sections or paragraphs in takes the MTOE info. The MTOE numunless the TOE's been modified, then it even though the changes may apply block takes your unit's TOE number . . . Authority Block - The authority TOE gets an MTOE, the MTOE is the the TOE. In other words, when your ber goes on all the pages in your book,

3 KW 400 Cyl T45836

crty book use a 1/4-in (or so) red circle in the authority block. Inside the circle note the item's RICC (Reportable Flagging pages — To flag reportable items in your prop-Item Control Code) out of SB 700-20. Active Army and Reserve outfits flag RICC 1, 2 and 6 items. Reserve types

also flag RICC 3 and 7 items.

Same item - Different authorization documents - when the same item is auarate page for each authorization. and CTA, for example), you need a septhorized by 2 different documents (TOE

> AUTHORITIES I GOT TWO

■ Serial numbers — When called for by other regulations, or for control purposes, you list an item's serial number on the back of the property book TWO PAGES ..

page. AR 190-11 for example calls for recording weapons serial

BACK OF THE PUT THIS 표 SERIAL NUMBER -1953986671825-975 8403.

> number pages behind the page for the are easy to read. And, you file the seria tinue the serial number listing. You can on the back of the property book page. numbered equipment (radios, optics, mark the top of the page "Serial No. and other office machines, etc.) be listed the listings. Just be sure the numbers page," and use both sides of the page for page (or as many as you need) and coning serial numbers, just add an extra generators, compressors, typewriters require that the numbers of all serially If you need more'n 1 page for record-For control purposes, local SOP can

> > CROSS OUT HEADINGS AND ADD YOUR OWN

> > > 903/157/

97664312

92134689

652/4577 679 80575 6914 1.BIO 87777912

600 11002 9216854 中の方というのでは一世が出る。

check the hand receipts, themselves, To find out which serial numbers are charged to what hand receipt, you have to ceipts. All you need is the correct quantity alongside each hand receipt number. The serial numbers needn't be in any order or keyed to the specific hand re-

equipment concerned.

PAGE EXTRA USE AN

906079

3 X-items - Only expendable-reportable items go in the book. See OK'd by the CO. other expendable stuff on DA Form 3318, or whatever check list is SB 700-20. You can keep track of

3 Pen/Pencil/Machine—Typing is OK for blocks that take entries in new page. Penciled entries, though, are likely to change . . . so, where pencil typewriter when you make out a pencil is called for, stick to the ink. So, if you like, you can use a

I'VE GOT CHANGE HOLD IT-PENCIL, MR. FRANKLIN Y'SHOULDA USED A

DA FORM 3318

時代

BECAUTE - CONTROL OF STREET

and in anni are our

" .. un

11/11/11

EN THE PROPERTY OF THE PROPERT

H/R dating — The hand receipt a change in hand receipt holders, needn't be changed for a routine needed on the hand receipt. It or adjustment of some kind when there's new issue or turn-in, book page is changed when there's date on the back of the property annual inventory.

9013 9007 9019 9020 9013 9020 DATE MINNUD ō SSUE OR LOCATION DATE MANY į ¥

Inactive section — You can use a separate working pages, you can set up a separate file active pages. Or, if you're loaded with non-(file folder or book) for the inactive section



16 FSN/name change — When an item's FSN or identification is changed by some supply document or other, all you have to do is undate the reby some supply document or other, all you have to do is up-date the necesthe change (and its date) on the page, too. Follow through sary info on the property book page. And you note the document that made COMBAT

BACK OF THE BOOK PUT IT IN THE

with changes to the hand receipt.

ARE CHANGED

FROM NX HATCHETS

o ×

PAGE I H

COFF dates - A property book page goes to the book's changed from NX or expendable-reportable to X. inactive section when: An item's expendability status is

authorized or on hand. The balance is zeroed-out and the item's no longer

It's all filled up or worn out and replaced by a new

SECTION NACTIVE GOES ヹ

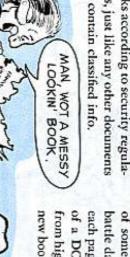
340-2 has the scoop on cut-off dates for supply records. hang on to it for 1 more year and then destroy it. AR then you hand it over to the records control people. They The page stays in the inactive section for 2 years and

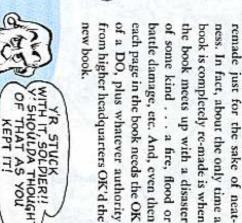
> on an item's accurate on an item's nomenclature you can Give the IAR a document number IAR in your document file. the property book page and file the change on the IAR. Post the IAR to and explain the need for the info correct the mistake on the property (Inventory Adjustment Report). book page, with a DA Form 444

care of an inventory overage. The IAR can also be used to take

according to local SOP. CO's OK, and the form's made out An IAR, of course, needs the

Classified annex—To account for 20 New book—Last, but not least...
the classified equipment you need 20 a complete property book is never and key along with any documents works according to security regulathat support it. And, you handle the tions, just like any other documents keep the separate section under lock that contain classified info. an annex to the property book. You







supply operation. know . . . you could make things easier for yourself and greatly improve your ideas with whoever is responsible for your command's supply SOP. You never needed rules made official is an OK from your command. So, hash over your you have better ideas on handling points that aren't specifically spelled out in AR 735-35. That's all to the good. Like was said in the beginning, all it takes to get Could be some of these points don't suit your particular operation, or pethaps

That's about it . .

DA FORM 444 sales owners of passes - Street THE IAR, TOO.

67

END

1110



It's no big deal to set up a comfortable repair parts supply room when you're operating in garrison.

Your first big need is an enclosed area in some safe corner of the maintenance shop. If you can, set up right next to the shop office (or as nearby as you can). That keeps you close to the top man, saves you steps and straying far from your post, when you need a signature, an OK, etc. And, too, he has a phone which you can share to keep in

supply news, and the like.

CO. WE NEED TWO LANTERNS, PRONTO

THE OUTFIT INTO TH

FIELD

OPERATE IT.

BUT IT'LL TAKE

A SUPPLY ROOM

I INVENTED

WITH TH' FIRST

IS REVERE, I'M

To give your corner better ventilation and light, use cage or fencing wire, or some similar material, for walling up at least one side, or the top section of the room.

The room needn't be too roomy. Just large enough to accommodate your bins, cabinets and shelves, plus whatever other storage space you need to hold your load of repair parts and sup-

89

REPAIR PARTS LOAD

OFFICER'S CHOP ON GET TH' MAINTENANCE THINGS FASTER OFFICE SO I CAN LOCATED RIGHT THE NAME Y'SEE WE MODERN EQUIPMENT TO MAINTAIN. TO IT TOMORROW BAG ... I'LL GE IN THE SAPPLE REQUEST SLIP PUT YOUR I'M FIXIN' MY WON'T MOVE WITHOUT HIS SUPPLY ROOM.

plies. And, of course, you'll need floor space for your desk and for a stand or table for your PLL files. If you don't have a bookcase you can put up a wall shelf or two for your pubs. You can also use the wall to hang display boards or racks for storing large, bulky items that won't fit in your bins or shelves.

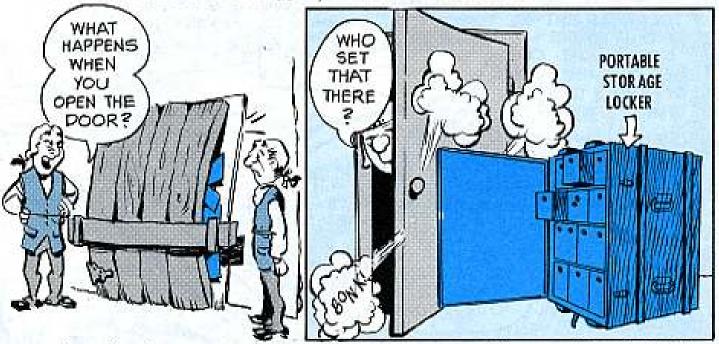
For privacy and security, the room needs a good door with a lock. A dutch door with a small work counter is a

> good arrangement. And a no-nonsense keep out sign on the door will keep you in charge and visitors out. Any windows or other openings in the room will also have to be secured.

Locate your desk and files across from the door, or as nearby as you can, so you'll be handy to your callers. You can hang a sturdy envelope or a small box on the door to collect request slips, when you're busy elsewhere.

STORAGE SPACE

Line up your storage equipment so the cabinet doors and drawers can be easily and safely opened. You'll have to identify all your storage spaces so it'll be easier to work your stock, locate parts and pull inventories. You record an item's location on the item's DA Form 3318, Record of Demands card.



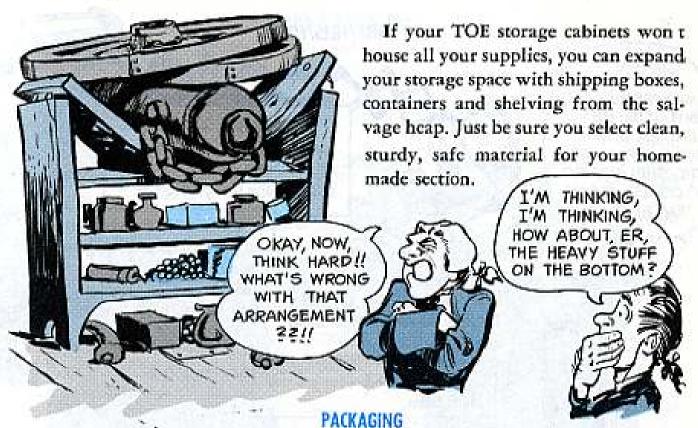
Store-bought storage equipment normally comes with spaces identified. The overall container is marked with a number or a capital letter and the separate spaces within the container are marked in sequence with numbers or lower case letters. If you have to, though, you can easily mark up your storage equipment. You can use the same combination of numbers and letters, or set up a system



You can use numbers, letters, or both, for the pigeonholes, shelves, etc.

You'll find painted and stenciled markings are more dependable than tags, tapes and other items that can be torn off or fall off.

Whatever location you select for an item should be large enough to take your complete stock of the item. Or, at least try to keep your complete stock of an item in adjoining spaces, or as close together as possible.

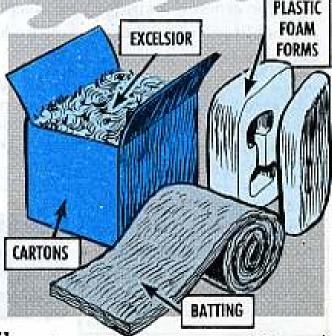


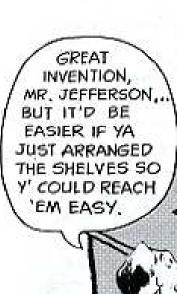
Keep as much of your load as you can in its original packaging, until it's needed. That'll protect items from rust, grime, damage and loss. Then, too, if you have to turn something in, you don't have to worry about repacking. Also, packaging and containers usually provide supply info that can be real handy when you're checking stock.



Save whatever packaging material you can to protect the recoverable-repairable DX (Direct Exchange) items. Protecting DX unserviceables pays big dividends — keeps the items from being further crippled. That saves time and money at the maintenance shop and gets items back on the DX shelf much faster.

Keep a clean, metal container of some kind handy to collect trash, so your room will stay tidy and safer to work in.





DA Pam 310-1 — Which you use for tracking down info on AR's, DA Pam's, Circulars and other administrative type publications.

DA Pam 310-6 — Identifies supply catalogs and supply manuals covering the various groups and classes of supply and SC's and SM's for tool kits, chests and outfits.

DA Pam 310-7—Lists MWO's.

DA Pam 310-4 — You can't beat it for looking up TM's, SB's, TB's and the old-7-8-type supply manuals.

PUBS SHELF/FILES/FORMS

DA Pam 310-2—For ordering blank forms.

Other important pubs you need-

AR 735-35 — Gives you the DA PLL SOP, and forms and records. See Sections IV and VI.

Repair parts TM's, supply manuals, manufacturer's lists, plus all other supply publications covering equipment your shop supports.

The DX list published by the DX section that supports you. And, the SALTI and country-store shopping lists, if those supply sources are available to you.

DA Pam 700-2 (Dec 68), Commanders' Supply and Maintenance Handbook, covers repair parts supply procedures and forms in Chapter 5.

DA publications are distributed directly to the user through pin-point distribution (See AR 310-1 and DA Pam 310-10). So, keep tabs on whoever is responsible for ordering pubs for you. Keep him posted on any changes in your need for publications, and make sure he knows what pubs are yours—out of the daily pin-point bundle he receives.

DA Form 2765, Request for Issue or Turn-in. Supply support may provide pre-printed 2765's for all your PLL items.

DA Form 3318, Record of Demands-Title Insert. You need a 3318 on each item on your PLL and you set up a card for each different fringe item that's demanded by your shop.

REPAIR PARTS FORMS

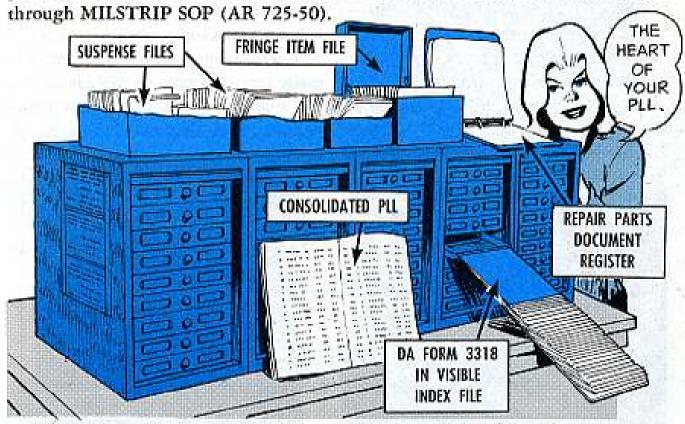
DA Form 2064, Document Register, for keeping track of your requests.

DA Form 2402, DX tag. For tagging recoverable/repairable items you take to the DX section.

REPAIR PARTS FILES

The heart of your PLL records is your visible file for your DA Form 3318's. You also stash any pre-printed DA Form 2765's you get from support in this file.

Two suspense files. One for due-in cards you get from your immediate support, and the other for due-in's (status cards) on items support orders for you



Fringe items file. For your DA Form 3318's requesting fringe items.

And, that's about how your repair parts supply store shapes up when your shop is under a permanent roof.

YOUR SUPPLY WAGON

When your shop heads for the boondocks, you have to put your operation on wheels, and space and conveniences get a bit scarce for you.

Most everything goes with you...
lock, stock, storage equipment, files and
publications. It'll be a mite crowded for
you and your daily business may pick
up somewhat, so the best thing you can
do is try to set up the same kind of storage operation you had in garrison...
or, as near as you can come to it.

A couple or three 2 1/2-ton, 6x6, cargo trucks and a couple of 1 1/2-ton



trailers, with bows and tarps installed, can take care of a fair-sized parts operation.

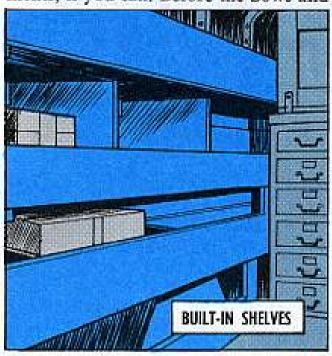
You can arrange your parts cabinets, bins and shelves along the sides of a vehicle's cargo compartment. If you

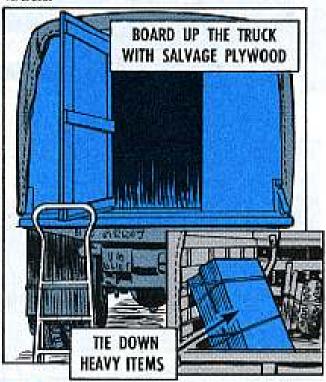


think any of your storage equipment will shift when you're traveling, lash it down. And, it's a good idea to board up the lower, front section of open shelves, so things won't fall out.

Large, crated and bulky items tires, tail pipes, sprockets, track sections, oil coolers, etc., can be lashed down in one of your trailers.

If your loaded status is going to be kinda permanent like, it's a good idea to board up your trucks' cargo compartments, if you can. Before the bows and tarp are installed on a truck, for example, you can line the inside of the cargo body with removable sections of used plywood, or some other satisfactory material, from the salvage yard. When you enclose the rear of the cargo compartment, of course, you have to plan for a hinged door that you can easily lock. A small, portable ladder, or one that'll lean safely on the tailgate, will do as a stairway into a supply truck.





LOADING UP

The bins, cabinets, shelves, etc., must be loaded, of course, before you enclose the rear of the truck.

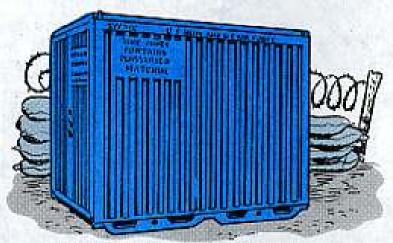
Use boxes or containers to move small items from your supply room to your truck storage. Most any OVE you have can go to the vehicles it belongs to. You can also load some large, bulky items in the vehicles that'll most likely need them.



Pubs and records are just as important in the field (maybe more), so they have to be located together in some permanent spot. If you plan right, you, your records and a fair amount of your smaller items can be located in the main vehicle you'll be operating out of.

When you're operating out of vehicles, you may not always be able to store the complete stock of an item in one place, so good storage identification and info are even more important than ever for your PLL records.

If your shop maintains classified gear you'll need a vehicle to tote the Conex container that houses its maintenance supplies. And, in the field, the classified container will have to be in a secured area, just as it was back at the shop.



CLASSIFIED MATTER CONEX CONTAINER

BUSINESS AS USUAL

Your request and turn-in SOP won't change much—if at all, in the field. You have to keep all your PLL SOP, records and pubs up-to-date as possible. Remember to leave your change of address wherever it's necessary, to be sure you continue to receive the latest publications.



You'll also find DX service support in the field, so you'll need to set aside a safe location where you can collect and tag DX items right away—and get them to the DX section soonest.

PLAN AHEAD

Even though you and your load may be sitting in a cozy shop right now, you never know how long you'll be in permanent quarters. So it's a good idea to plan ahead. Check your outfit's SOP and work up a loading plan of some kind for your load and your storage equipment. Check up on the vehicles that'll be assigned to your supply operation. Figure up space for large items and what kind of enclosure you can fix up for your vehicles. Then you'll be able to make an orderly move if and when the time comes . . . otherwise you might have to bug out some day and leave half of your shop's life-blood behind.





The idea may sound funny—and it may look strange. But PLL parts can be srowed like so many bags of potato chips if you're not authorized, or can't get any rool and spare parts cabinets.

Trim several sheets of chart board to fit inside a salvaged foot locker. You can staple up to 6 rows of 6 sacks each on a single board. And 6 boards can be stacked in a standard foot locker without forcing.

Each sack takes the authorized stockage quantity for one item. All sacks are attached in FSN sequence. You may use a brown paper sack or the plastic bags (FSN 1005-052-6942) that M16A1 riflemen carry to protect their ammo maga-

But the mag bags have an edge. Besides being rugged enough to hold the parts, they're clear on one side. This makes them outstanding for inserting

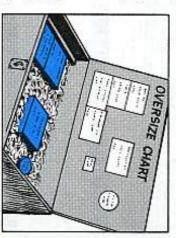
a typed 3x5 card inside . . . listing that part's stockage level, FSN, noun and storage location.

If a writing machine's not available, just grease pencil the same info on the outside of that sack or mag bag.

T00 BIG

Not more than I out of 10 of your PLL parts will be too big to fit these bags. For these items, mark "oversize" in their chart board locations—and

If your PLL contains too many of these, you might find it convenient to place all oversize boxes and cases in a second foot locker . . . and tack a chart to the inside cover for identification.

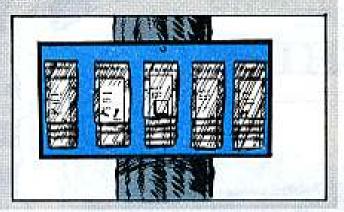




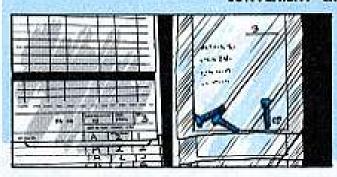
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ALWAYS READY

Everything remains in the foot locker(s) with this locator system. So you're always ready to chogie out. When you bivouac, just haul out your potato chip cards and lean 'em against a nearby tree or vehicles—or hang 'em from nails fastened to trees or ground stakes.

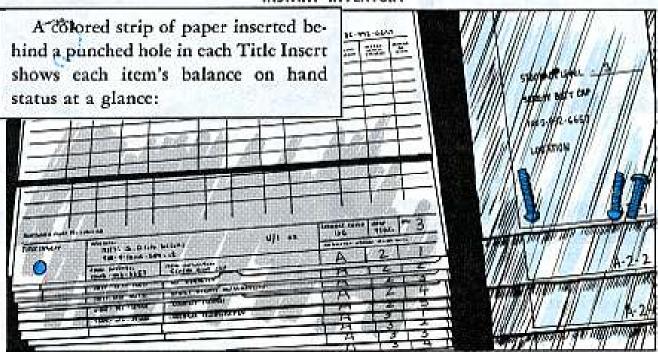


CONVENIENT CROSS REFERENCE



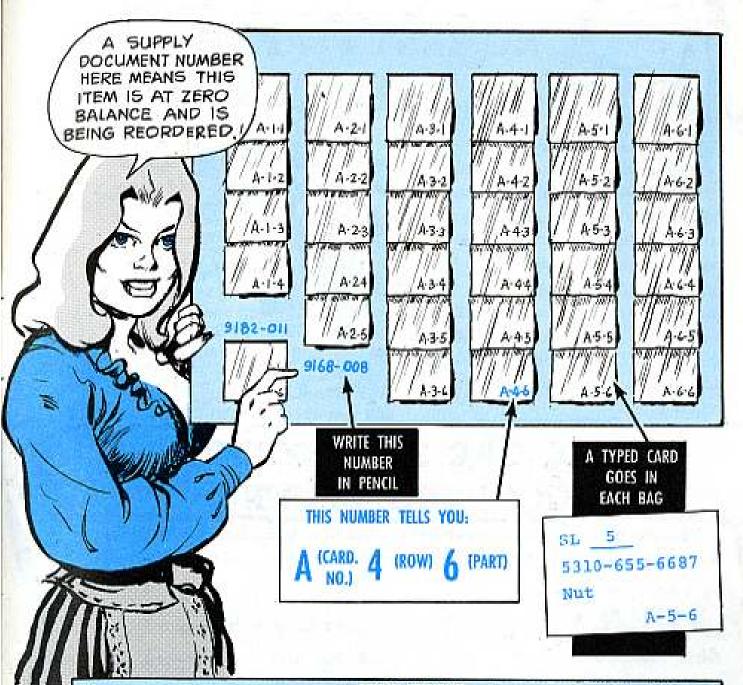
Your PLL cards and visible files are in the same FSN and storage location sequences. Bring them side by side and you've got a convenient cross reference system.

INSTANT INVENTORY



Green = authorized quantity on hand
Amber = partial fill
Red = zero balance

Replacing each empty bag with a penciled-in reorder document number verifies each red dot condition—and shows supply action has been taken to correct that zero balance. An eyeball inventory verifies each amber and green quantity.



OTHER BENNIES

Several other benefits of this unique locator system are:

- Fewer small parts lost.
- ♣ Deleted PLL items are easy to spot for turn-in.
- + PLL cards can be used with or without a parts cabinet.



A SALUTE TO SFC E.L.DAVIS, APO SAN FRANCISCO 96530 FOR THIS GREAT IDEA!





WE'RE STILL DUE MORE TENT,

While you're still receiving components for your maintenance tent (FSN 8340-951-6419), you need the property book header-page set-up to keep things straight. That is, separate pages to account for and report the RICC 2 components you've received so far. When the tent's complete you can IAR (DA Form 444) the separate pages, and carry the tent on 1 page, under its basic FSN and LIN . . . and, that's the way you report it.

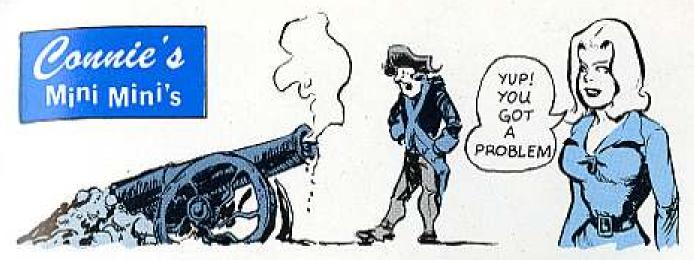


HOL-GAR SLUMBERING? TRY RENUMBERING

There've been more number changes on that WK-1 Hol-Gar 30KW generator set than you'd expect on graduation day at San Quentin—like:

ITEM	FSN	P/N	CODE	
Belt Set, Water Pump	3030-778-1241	MS 51065-36-2	96906	
Belt Set, Generator Drive	3030-017-9733	MS 51065-34-2	96906	
Belt Set, Fan Drive	3030-832-4310	MS 51066-40-2	96906	
Cable Assy, Power, 170 in Ig	6150-952-7006	13214E1433-2	97403	
Cable Assy, Power, 246 in Ig	6150-949-0662	13214E1433-4	97403	
Regulator, Voltage, for Serial Nos. 1 thru 1208, Contract No. DA-11-184-AMC-284	6110-868-7951	20000-679	73239	
Regulator, Voltage, Serial Nos. 1 thru 169 and 1209-2028, Contract No. DA-23-195-AMC-1210	6110-059-4864	28102-100	97520	
Relay Assy. Control Box (rear) for Serial Nos. 1-1208 incl, Cont. DA-11-184-AMC-284	6115-868-7952	20000-723	73239	
Relay Assy. Cont. Box (rear) for Serial Nos. 1-169 and 1209-2028, Cont. DA-23-195-AMC-1210	NONE ASSIGNED	20000-810	73239	

(Those cables only go on the MJQ-10 version of PU-406 so's you can switch from one generator to the other.)



Radio Decal Now

It's official! The warning decal "Do Not Start Vehicle While Radio Is On" is now on DA Label 132 (1 Nov 69). It's available from the Army AG Publications Centers at Baltimore and St. Louis, as well as pubs centers in Europe and the Far East. Word on it is in SB11-624 (24 Mar 70).

M113E1 Tube Life

The new M113E1 autofrettage tube for the M107 175-mm SP gun is even better than we thought. In PS 208, page 23, we said it would last 700 EFC rounds as against 400 EFC rounds for the M113 tube. New tests have shown the M113E1 is good for 1200 EFC rounds—or a gage reading of 0.200 (7.090 inches), whichever happens first.

M16 Rifle Handy Dandy

Hey, you guys . . . if you want the scoop on your M16 rifle get a copy of DA Pamphlet 750-30 (July 69). It's pocket size like PS Magazine. There are plenty copies around. Ask your armorer. A copy comes packed with each new rifle from the factory.

Case Closed?

The words "Case Closed" in an EIR digest entry normally mean corrective action has been recommended. If you take that action and the problem persists, keep those EIR's coming, like it says in para 3-7.4.1 of TM 38-750 (Dec 69).

Bare Essentials

Say your piece on DA 1352 then stop, you aircraft reporters. If you've got excess not-operationally-ready time due to a few parts or components, list names and FSN's of the culprits. No need to do this if many different items are a problem . . . just make a short summary statement. PS 211 spells out more details.

Bugged By No Supply?

Do your DA Form 2765's bounce from DS when you don't have an authorizing document to jot in Block 0 for expendable repair parts and supplies? No reason for that, 'cause AR 711-16 says in Para 9-1 that requests for expendables will not be bounced because you don't list an authorizing document. As long as it's a good FSN (in the AMDF) they have to supply the item or pass it along so GS or depot can give it to you.

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

