

More and more commanders, ranging from platoon level all the way to the top of the Army, are putting the bee on one real hot topic these days:

Keep Equipment Ready for Combat.

Lots of things are happening to keep equipment ready.

Even clubs are being formed to encourage PM. A warrant officer in the Far East got a CLTORF PM Club going. That CLTORF (pronounced Clue-Torf) stands for these words:

CLEAN LUBRICATE & TIGHTEN OPERATIONALLY CHE BEPORT POLLOW-UP!

maintenance problems by creating an interest in, a knowledge of, and effective management of preventive maintenance programs." It even has its own miniature lapel pin.

The whole idea is to have fighting equipment that will be ready to fight any time and for as long as it's needed.

Now, how about you? Is your equipment ready? PM every day the CLTORF way can make the difference.

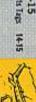
For a dope sheet on the CLTORF PM Club, write to MSC Half-Mast at



Poblished by the Department of the Arr for the Information of organization maintenance and supply presonnel. Of Industria is nade through normal pub critic channels, within limits of 272 ability ofter insures may be obtain direct from U. S. Army Maintenan

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Sqt Helf-Mest. PS Magazina, God Knox, Ky



got it made in the shade. system to service. With a Daily, (no inspection you can see a crew chief's Intermediate) and a 300-hr Periodic

JP-4 fuel, MIL-L-7808 oil for the en- draulics here. Lower the tail boom for have a service chart. Fill 'er up with There is no lube chart but you do

'Course this lightweight (1163-lbs)

tender lovin' care from pilots and is thin skinned and needs plenty of mechanics.

> gear lever . . . prevents the stop lock you use a steady, slow motion on the

from going bust!!

She has to be towed slowly. Avoid

you need is ordinary muscle-no hy-For the ground handling wheels all

during towing . . . could turn 'er over!! sudden starts, stops and sharp turns

(ES) MORE

Park the bird on level ground. To protect her from air turbulance always tie down the blades, using light tension on the ropes. Moor the bird to the



are expected. The bird should be evacuated if winds higher than 40 knots are on the way.



Fuel-up as soon after landing as possible. This not only cuts down on moisture condensation in the fuel tank but also keeps your bird on the heavy side . . . in case of high winds.



For more pointers on your Cayuse be sure you eye the organizational maintenance pub, TM 55-1520-214-20 (Jan 67).

Other pubs you don't want to 38-750 on re overlook — TM 55-1520-214-10, TM poop on filling 55-1520-214-20P, TM 55-1520-214- Be sure to c 20PMD, TM 55-1520-214-20PMP, TM discrepancies.

55-1520-214-ESC, TM 11-1520-214-20 and 214-ESC (for radio types).

Here's how a top-drawer mechanic would give out with genuine TLC on the Daily inspection. Remember—there is no Intermediate to back up the Daily so do it up brown. The PMD checksheets in the log book refer you to more detailed inspection poop in the organizational maintenance pub.

BE SURE
YOU CLEAN THE
PLASTIC WINDOWS
WITH SOAP AND
WATER... IF YOU
WIPE 'EM
WITH A DRY CLOTH
IT JUST RUBS THE
DUST ACROSS
THE SURFACE
AND SCRATCHES
IT... SO BE
GENTLE!

FORMS, RECORDS—Eye the bird forms and records to be sure they're up to snuff. AR 750-1500-2 (Sep 65) on tech pubs for aircraft files tells you which ones should be on board. TM 38-750 on record procedures has the poop on filling out the log book forms. Be sure to check the log book for discrepancies.

CREW COMPARTMENT

CANOPY — Look for exterior damage. Check the windshields and windows to make sure they're clean.

When you work in the cockpit be sure you don't lay tools and equipment on the lower windshield. To prevent scratches that lead to pilot eye strain, protect the plastic with clean felt or some other soft material.



LANDING/HOVER LIGHT
— Secure, no obvious damage.

THIS LOG BOOK

MAP OF THE A

STREET

COPY OF Y'R

GOT A

38 - 750 ?

PITOT TUBE — Be sure it's clean, not obstructed and that the drain hole is clear.





Don't blow air thru the pitot-static lines to the aircraft center line with special tool the pitot tube up or down. It's alined parallel airspeed indicator . . . can ruin instrument diawithout first disconnecting the altimeter and phragms, for real!! Be sure you don't bend

(at the tubular joint) of pedal brackets, P/N nifying glass; eye the center and forward area of movement. With a 5-power, or better, mag-Check for excessive looseness and freedom CYCLIC, COLLECTIVE, TAIL ROTOR PEDALS -Cracked brackets get replaced, 369A7505-5, P/N 369A7505-6, you betcha for cracks

CORRECTION

COMPASS

place? CARD - In

Readable?

LOOSE EQUIPMENT — Be sure any loose maerial is stowed

FOR FREE MOVEMENT CHECK





and inspection tag up

Secure, in the right FIRE EXTINGUISHER -

place, no broken seal

 \divideontimes Never plant your brogans on the tail rotor pedals getting in and out and never

to snuff. TB 55-1500-308-25 (Aug 67) has No broken or missing seal, inspection tag up

FIRST AID KITS - Secure, in the right place.

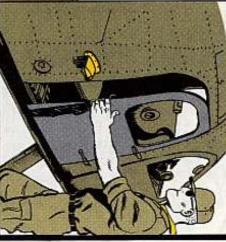
more detailed inspection poop.

use muscle on the door latches . . . this Go easy on the door hinges and use the navigation light as a hand hold. baby wasn't designed like a tank.

ACCESS, INSPECTION DOORS - Closed and

FUSELAGE, RIGHT SIDE (forward, center, aft) RIGHT MAIN MOTOR, RIGHT LANDING GEAR

ACCESS, INSPECTION, COMPARTMENT DOORS doors are closed. flown unless controls access and fuel access ... 'tis mighty important. The bird can't be Check the doors for closure and security



🬟 The fuselage is a semi-monocoque design is stressed to contribute to the strength of the bird. If you leave pilot or cargo doors off means the skin, especially on the tail boom, and the tail boom is a monocoque design. This





LANDING GEAR — Eye skid tubes and fairings for wear and see that the abrasion strips are in place.

LANDING GEAR FRONT SHOCK DAMPERS—

> SHE SORTA LOOKS OFF HER FEED, CONNIE!



Stand back and eye your pride and joy. If she has a nosedown, droopy look, check the dampers for leakage. Leaking dampers get replaced because a shot damper can give you severe ground resonance . . . tear a chopper to pieces!!



POSITION LIGHT, UPPER ANTICOLLISION LIGHT COVER - Damaged? Secure? SURE . LOOK FOR YOUR-SELF.

MAIN TRANSMISSION — Check the oil level at the sight gage and add oil if the level is down to the ADD line. FSN 9150-985-7099 will get you quart cans of MIL-L-23699. After you add oil be sure the spring-loaded cap closes.



During rotor coastdown and right after shutdown the oil level may read below FULL but above ADD for a short time — no sweat . . . this is normal. Don't adjust the level or it will go over FULL after she sets awhile.

W/1/1

ENGINE AIR INTAKE PLENUM CHAMBER, INLET SCREEN — Secure? Make sure this area is cleaner than clean — all the way to spotless. Use a vacuum cleaner to get rid of dirt.

The dog house (plenum chamber) seems to be a natural for a bird house. They can set up housekeeping in a couple of hours. So, be sure you feel around for nests and other foreign material.

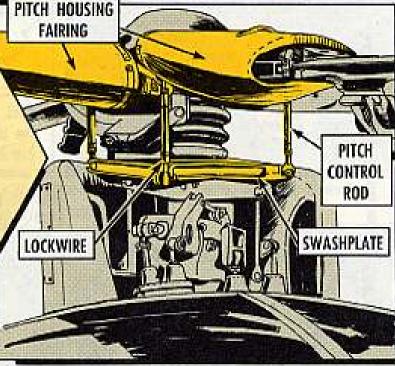
When you pull maintenance in this engine inlet area or on the main rotor head be sure you don't discard washers, cotter pins, safety wire — anything.

USE MAKE —
SHIFT COVERS IF
YOU HAVE TO...
YOU'VE HEARD OF
FOD AND WHAT
IT CAN DO!!



COMPRESSOR INLET — Look for foreign object damage.

MAIN ROTOR HEAD, SWASHPLATE—
Check for damage. Eye the hub and pitch housing fairings for damage and security. Check pitch control rod lockwire to see it's intact and the blade and damper attaching pin levers locked. See that the mast support bolts have not rotated or become loose.



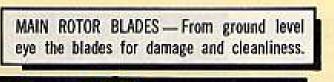


FLIGHT CONTROL RODS, LINKAGE — Check carefully for damage. If you spot any metal defects, the parts get replaced — soonest.

BE SURE TO EYEBALL THE AREA
WITHIN ONE INCH OF THE FORK OPENING
IN A MACHINED CASTING.









Of the second

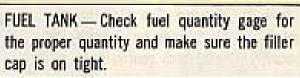
When cleaning the rotor blades wash them with only mild soap and water. Fact is, the whole bird gets the mild soap and water treatment. It's OK, tho, to use dry cleaning solvent, P-D-680. Type II, to get fuel and oil stains off speedy's metal exterior . . . followed by mild soap and water.

GOT ANY
DOUBTS ABOUT
DEFECTS??
FOLLOW PARA
8-10 OF THE
ORGANIZATIONAL
MAINTENANCE
PUB!!

ENGINE OIL TANK — Eye the sight gage to check the oil level. If it's not at the proper level add MIL-L-7808 and put the filler cap back tight.

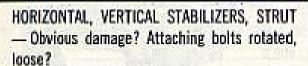


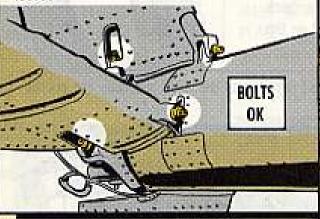
THIS
SYNTHETIC OIL
HAS A POISONOUS
ADDITIVE THAT'S
ABSORBED BY THE
SKIN ... SO WASH
YOUR HANDS
AFTER EACH
REFILL!



EXTERIOR SKIN — Run your peepers over the skin. Make sure there is no gap between the boom and fusetage at the boom attaching point.

STABILIZERS, TAIL ROTOR TRANSMISSION, ROTOR



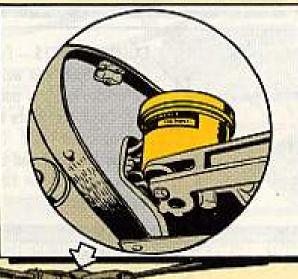


TAIL ROTOR PITCH CONTROL ROD, PITCH CONTROL LINKS — Check rod at the gear box and links at the rotor for excessive bearing wear (0.040-in max axial looseness) freedom of movement and security.

TAIL ROTOR GEAR BOX — Secure. No oil leaks, cracks, nicks, pits or corrosion. Eye sight plug for proper oil level. Make with the MIL-L-23699, if needed.



TAIL ROTOR BLADES, HUB, PITCH CONTROL LINKAGE — Look for obvious damage. Hand-turn the rotor a few times and listen for unusual sounds — feel for any binding. Follow the inspection peop in para 8-30 of the maintenance pub.



MAIN ROTOR BLADE DAMPERS — To prevent severe damage to the main rotor head check for right phasing. Check between flights if you think the phase was changed by ground handling. Check by holding the tail rotor and pulling each main rotor blade into the lead position of the damper's low stage (lowest friction sector).

PON'T TOUCH TRAILING EDGE OF BLADES... TRIM TABS BEND EASILY. HANDLE LEADING EDGE OR END OF BLADES.



11

ENGINE AREA

LANDING GEAR REAR SHOCK DAMPERS — Stand back and eye your bird. If she has a nose-high, up-ish look about her, she's got leaking dampers that need to be replaced. Be sure to check the upper attachment fuselage fittings . . . they take it on the chin when a bird is dropped in from ump-teen feet.

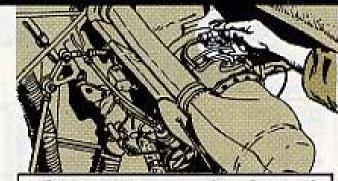


When changing dampers be sure the bird is jacked evenly until the skids just clear the ground . . . slips count!!

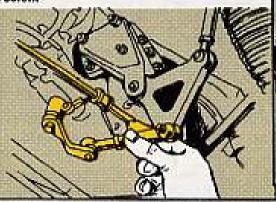
ENGINE — Eagle-eye the whole shebang for loose bolts, broken or loose connections. Check the accessories for tightness and broken or missing lockwire.

Look for fuel and oil leaks. Run your dukes over the oil cooler and the cooler deflectors for tightness. Check fuel and oil lines for chafing.

N1, N2 CONTROL LINKAGE — Full travel, free operation, secure. Look for binding bearings, cracks, stripped threads, deformed pivot lugs, corrosion.

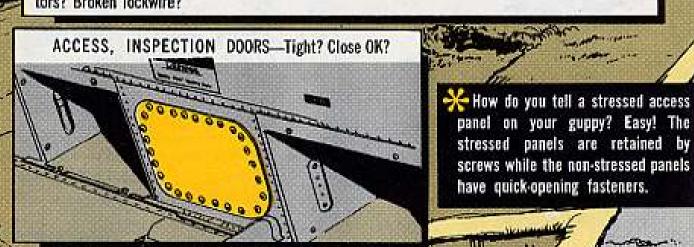


ENGINE MOUNTS — Secure? Mounting and support bolts tight (showing no signs of rotation) and in good condition?



EXHAUST DUCTS — Eyeball the ducts and welds for cracks (ugh!) or buckling. Check the joints for blow-by. See that the clamps are tight and the ducts secure at the fuselage.

IGNITION, FUEL PRESSURE SWITCH LEADS — Burned, chafed, cracked conduit? Loose connectors? Broken lockwire?



FUSELAGE

LEFT SIDE (forward, center, aft) LEFT MAIN ROTOR, LEFT LANDING GEAR

MAIN ROTOR BLADES — Clean? Undamaged? If in doubt about the depth of allowable dents use a dial indicator and follow the limits in para 8-10 of TM 55-1520-214-20.

MAIN ROTOR HEAD, SWASH-PLATE — Eye the area for daniage. Check the hub and pitch housing fairings for damage and security.

POSITION LIGHT, LOWER ANTICOLLISION LIGHT COVER — Check for tightness and damage.

ACCESS, INSPECTION, COMPARTMENT DOORS— Keep 'em buttoned up.

LACTED STATES SAME

LEAVE VENTS
AND DOORS OPEN
WHEN YOU'RE PARKED
IN THE HOT SUN...THE
CIRCULATING AIR'LL
HELP PREVENT
PLASTIC WINDOWS
FROM DISCOLORING.

LANDING GEAR FRONT SHOCK DAMPERS—Bird down in the mouth? She needs a damper change, man!

LANDING GEAR — Check the skid tubes and fairings for wear. See that the abrasion strips are in place.

FUEL DRAIN — Tap the drain to check for water content. Eye the bottom of the fuselage for fuel leakage.

FLIGHT CONTROL RODS, LINK-AGE — No damage allowed. Be sure to check the area within 1 inch of the fork opening in a machined casting. FUEL TANK VENT — Be sure the vent is clear.



WARNING LIGHTS - Push light test switch to check all warning lights.

INTERIOR LIGHTS - Eye panel, console, compass and utility lights for operation.

EXTERIOR LIGHTS — Check the landing, position and anticollision lights for operation.







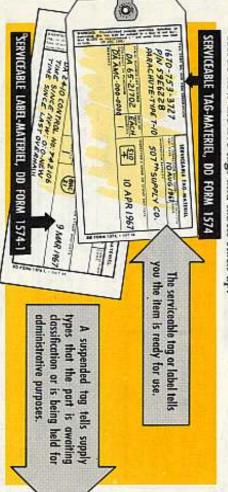
tion of a bird part without a tag or label - that's for sure. You can no more tell players without a score card than you can tell the condi

and labels for aeronautical and air delivery equipment. all. To the rescue comes TB 750-126 (22 May 67) with materiel condition tags So, gone is the practice of using unauthorized tags, plain tags or no tags at

condition, useage factor, inspection due, modification needed and a reference to DA Form 2410. The little gems supplement TM 38-750 forms to identify the part, give its

unnecessary tear down time . . . much moola. you the score at a glance. They save umpteen hours of opening containers and How important are these tags and labels? Well, tagged parts in supply gives

Here's how the five tags and labels stack up.





0 TEST/MODIFICATION TAG-MATERIEL, DD FORM 1576 DA-12406 SE ANN CO. EACH CB. Harrison SP/6 DAME -Allegar 574/A

TEST/MODIFICATION LABEL-MATERIEL, DD FORM 1576-1

UNSERVICEABLE (CONDEMNED)

0 EACH 2040 BLADE ASSY, MR SCRAP PER TO AVN 23-72 REQUIRED AN 51515-20601 1560-672-3525 RAJAME CHE 1/418 67 SAMA CANCKED MARKET SERVICE STREET the tax amend we have to see and SEASCHWET SCHOOL STATE S

UNSERVICEABLE (CONDEMNED) LABEL-MATERIEL, DD FORM

UNSERVICEABLE (REPARABLE) TAG-MATERIEL, DD FORM 1577-2

UNSERVICEABLE (REPARABLE) LABEL-MATERIEL, DD FORM 1577-3



TAG-MATERIEL, DD FORM 1577 quantity you need on a DA Form 17. just list the form number plus the port by using these babies. To get 'em Send it thru channels to-You're sure to score a hit with supfor tests or where a modification has to be done. St. Louis, Missouri 63114 Test/modification tags are used 1655 Woodson Road **US AG Publications Center** Commanding Officer

can't be overhauled. tag means the part has had it and The unserviceable (condemned)

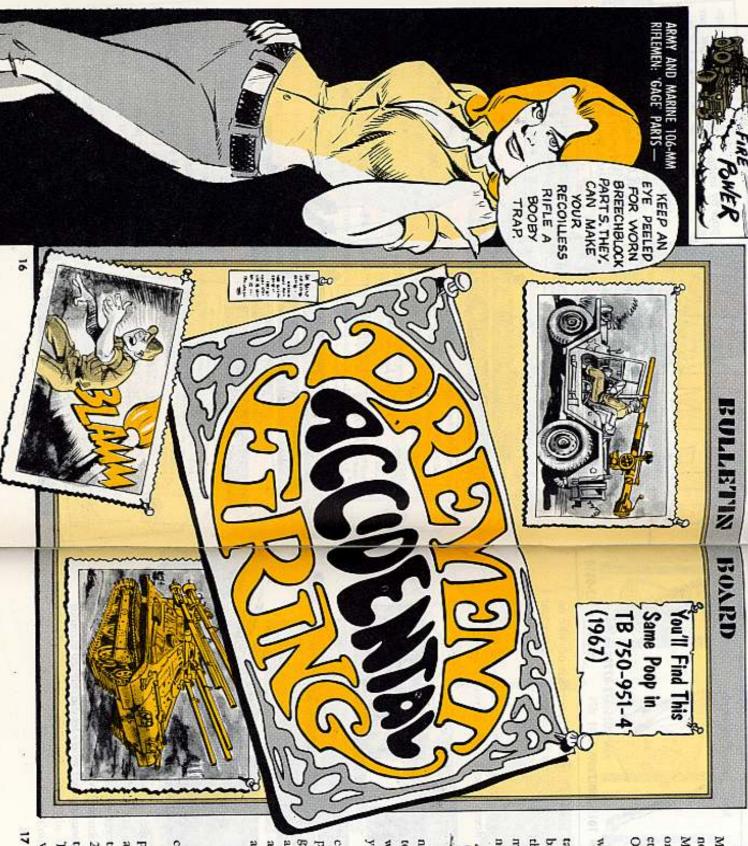
tag means the part is headed for the repair shop. The unserviceable (reparable)

every block according to the poop and labels so be sure you fill out in the pub. knows what you put on the tags Of course your support only

EYE THIS

use procedures. One point, tho. Be sure 67) on component replacement and resure you read TB 55-1500-300-25 (Mar tag a part rates, based on useage, be 1574. Serviceable Tag-Materiel, DD Form para 7(b)1 is correctly identified asyou eye Change 1 (20 Jun 67) to the TB because the mg number given in To find out what materiel condition

4



Few things can shake you like a 106-MM recoilless rifle going off when it's not supposed to . . . no matter if that M40A1 or M40A1C's the ground type or truck-mounted—or the 6-pack variety perched atop the Marine Corps' ONTOS M50 self-propelled rifle.

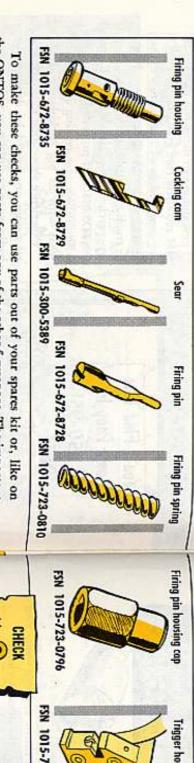
It can get you coming and going, what with its big backblast and all! Experience shows that most accidental firings are caused by damaged or badly worn or dirty breechblock parts that can't work right together... or maybe a firing cable that's damaged or not adjusted right.

Dirt and nicks you can see with the naked eye, sure, but wear that changes tolerances are pretty hard to detect without a micrometer or gage—which you don't have.

So, here're 5 checkouts you gunners can make to get rid of troublesome parts, using the parts themselves as gages. Every week—without fail—pull a crew check. And follow through exactly on the order in which the 5 checks are listed here.

It'll take only a few minutes, but it could mean a lifetime.

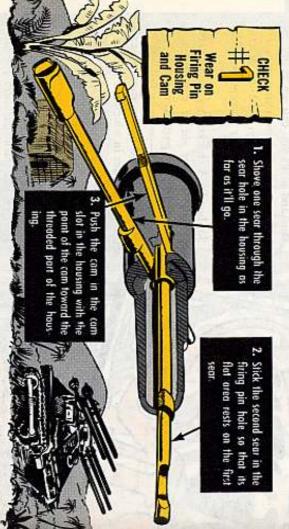
Here're the stock numbers for the parts you'll be working with. Army and Marine types firing ground or truck-mounted 106's use TM 9-1000-205-12 (Mar 59) w/2 Changes. Marine-types equipped with the ONTOS use TM-00545B-10 (Dec 63) in conjunction with TM 9-1000-205-12.



To make these checks, you can use parts out of your spares kit or, like on the ONTOS, you can use parts from any of the other 5 weapons. The important thing is to make sure all parts are clean — clean as you can get 'em with solvent and brush — before you start.

One more very important thing — every time you find a bad part, separate it from the good parts. Make sure it doesn't sneak back in your weapon.

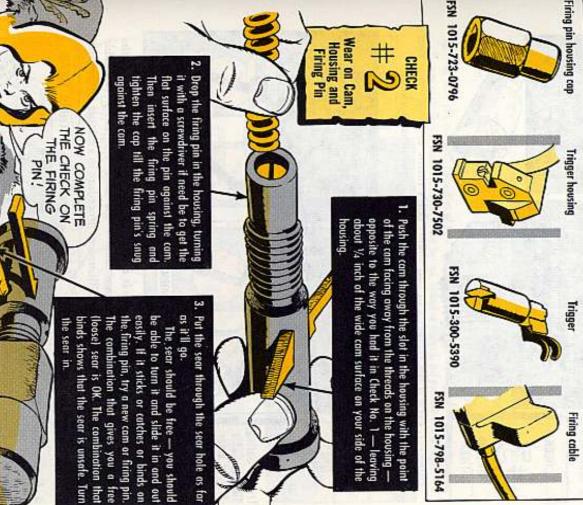
OK, let's get with it.



If the cam won't go through the housing—if it doesn't show at all on the far side—you'll know the cam and the housing are OK to use.

But, if the cam does go through—even a fraction of an inch—try another cam or housing till you get a combination that won't let the cam go through the housing. Any combination of cam and housing that won't let the cam go through is safe to use.

Turn in the cams or housings that don't cut the mustard.



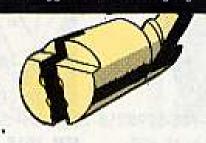
Take the firing pin out and turn it over so that the scar will pass against its opposite side. If either side of the firing pin causes a bind on the scar, replace the firing pin. Be sure you get rid of all firing pins that cause a bind.



 Open the breech and eyeball the end of the trigger. Bright spots along the edges of the slot indicate normal wear. No sweat if they're even.



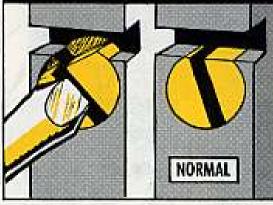
But bright spots, plus burrs or gouges or nicks show that the trigger's not working right.



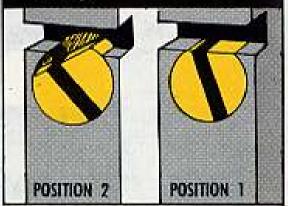
However, even if the trigger's in bad shape, don't throw it away—yet. You need it to find out what's causing this damage—like in the next checkout.



 Trigger Spring — Turn the trigger with a screwdriver or such-like to the fired position. If the trigger won't return to normal position, the spring's weak or busted. Replace the spring.



 Timing Test — The firing cable can hold the trigger in a forward position. Eyeball the end of the trigger. The flat surface of the trigger should be flush with the flat on the trigger housing.



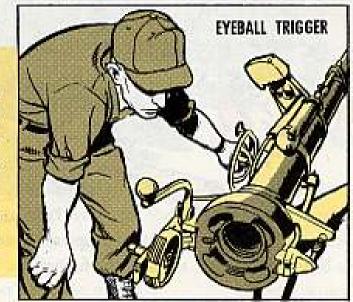
If the trigger's in position 2, turn it to position 1 with a screwdriver. If the trigger returns to position 2 after you remove the tool, you know the cable needs adjusting. (You'll get to the adjustment procedure in a minute. Meantime,

keep on checking.)

3. Binding or Damaged Firing Cable —

On ground or truck-mounted weapons only: Open the breechblock and push the vernier firing shaft to fire the rifle. Then slowly pull the firing shaft back to the neutral position.

If the trigger won't return to position 1, the cable needs replacing—it's beyond adjusting.



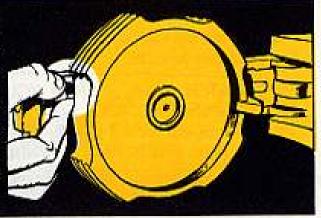
On ONTOS weapons only: Open the breechblock and use a screwdriver or similar tool to operate the trigger by turning the solenoid shaft which sticks out from the bottom of the mount under each of the 6 rifles. Turn the shaft as far as it'll go and then let it return slowly.

If the trigger stops moving, never force it. However, if the trigger won't return all the way to normal position 1, you've got to replace the cable . . . again, it's too far gone for adjusting.

4. Now, after you complete this series of tests in Check No. 4, backtrack a second to Check No. 3. If your eyeballing showed the trigger to be burred, nicked or gouged, get yourself a new trigger.



Open the breech and grab the sear with your thumb and fore-finger. The sear should move back and forth freely. If it won't move freely, take the breech apart and go through Checks No. 1 and No. 2 again.

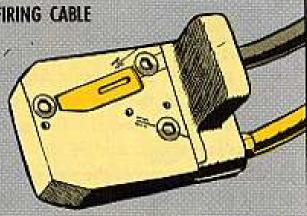




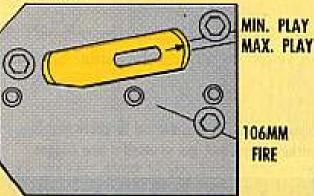
ADJUSTING THE FIRING CABLE

Here's what you do:

Open the breech. Put the firing cable adjusting tool (FSN 4933-730-7536) on the firing cable operating lever so that the projection on the tool enters the slot in the lever.



The arrow on the end of the tool should sleeve cover.



If the arrow won't line up this way, here's how you adjust the cable:

> WATCH THIS ... WHEN YOU'RE TURNING THE CABLE FOR ADJUSTMENT BE SURE BOTH ENDS OF THE CABLE ARE FREE AND TURNING!

3. Now tighten the setscrew with your wrench — real tight.

OK, now close the breech to check the firing cable, like this:

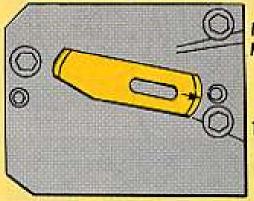
4. Fire the rifle by turning the adjusting tool toward the FIRE line on the guick-breakdown sleeve cover. The trigger should turn the sear — listen for the fall of the firing pin! The rifle should fire after the first corner of the tool reaches the 106-MM FIRE line and before the arrow on the tool passes the 106-MM FIRE line.

fall between the MIN PLAY and MAX PLAY lines on the FIRE side of the quick-breakdown

- 1. Take out the firing cable locking setscrew in the right side of the quick-breakdown sleeve with your combination wrench (FSN 4933-730-75371.
- 2. Turn the firing cable in or out of the quickbreakdown sleeve by hand till you line up the arrow between the MIN PLAY and MAX PLAY lines. If the cable end's tight. loosen it with the wrench. The trigger should begin to turn as the arrow meets and passes the MAX PLAY line.



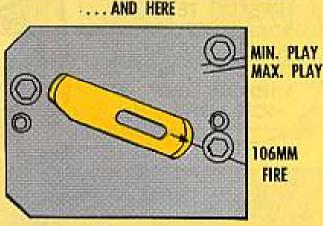
THE RIFLE SHOULD FIRE BETWEEN HERE...



MIN. PLAY MAX. PLAY

106MM FIRE

SHOULD NOT FIRE THIS SOON



MIN. PLAY

MAX. PLAY

FIRE

106MM FIRE

Now, get this: If the rifle fires before the first corner of the tool reaches the 106-MM FIRE line, replace the firing pin and recheck as in 4 above. And, if the rifle still fires before the corner of the tool reaches the 106-MM FIRE line-after you've replaced the firing pin—get yourself a new sear.

CABLE PM TIPS

Never forget that an injured cable can cause accidental firing. Educate everybody in your outfit—and pass the word along to your support types, too—to handle that firing cable real gentle-like at all times.

This means when you take the cable out for cleaning and such-like, never twist it up. Never walk on it or let a vehicle run over it. And keep it free of grit and grease that'll chew out the rubber sheathing.



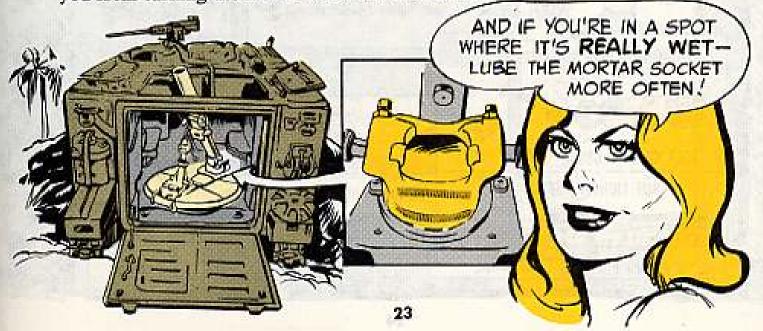
On-your-toes PM—cleaning and lubing the breechblock parts after every firing like the LO calls for, and making these parts checkouts every week will help you stamp out premature firings.

Worth the trouble?



When you're where the dampness is, that's the time to pay close attention to the LO for your M107-mm SP mortar. That means Ch 1 (Oct 63) to LO 9-2300-224-12 for the M106 and LO 9-2300-224-12/2 (Oct 65) for the M106A1 carrier.

One place you want to eyeball on the LO is where it says to use GAA quarterly on the part of the mortar socket that contacts the bridge turntable. It may take a few minutes, but it's worth it to keep away rust—rust that might keep you from turning the mortar when the time comes.



using LSA (Lube Oil, Semi-fluid, Automatic Weapons, MIL-L-46000A) on your 5.56-MM you and your armorer get the most out of M16A1 zap-machine anywhere but in real cold-weather areas. rifle — now that it's LSA all the way for the Here're a couple-three lube tips that'll help

> IT NEVER GETS DOWN TO ZERO. FOR VIETNAM AND ANY PLACE

NI6AI

LUBE GUIDE

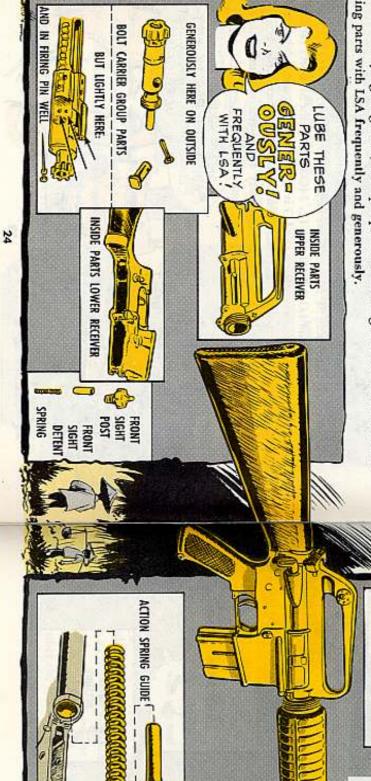
4686-1-gal can 9150-889-3522-4-oz tube; FSN 9150-687-4241-1-qt can; FSN 9150-753cially in a muggy-wet climate like Vietnam's . . . it lasts longer . . . it really protects metal surfaces. Here're the stock numbers that'll fetch it for you: FSN Yessir, LSA's here to stay. It does a better lubing job on working parts, espe

WHERE AND HOW MUCH LSA?

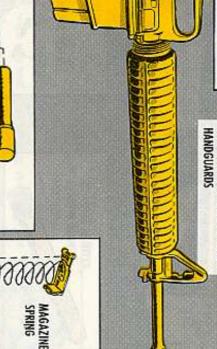
on the inside of your magazine. on the firing pin and the magazine spring - and none at all on your ammo or places—like the bore and chamber, inside the carrier key, inside the bolt and those inside the upper and lower receivers—and very light doses in other The big trick to using LSA is to get plenty of it on the working parts-like

the good word in your TM. fore you apply LSA. So do a real good job after every firing mission, following CEANING - Normally, you want your rifle spitting clean inside and out be-

Too busy fighting? OK, then postpone the cleaning BUT lube all the work





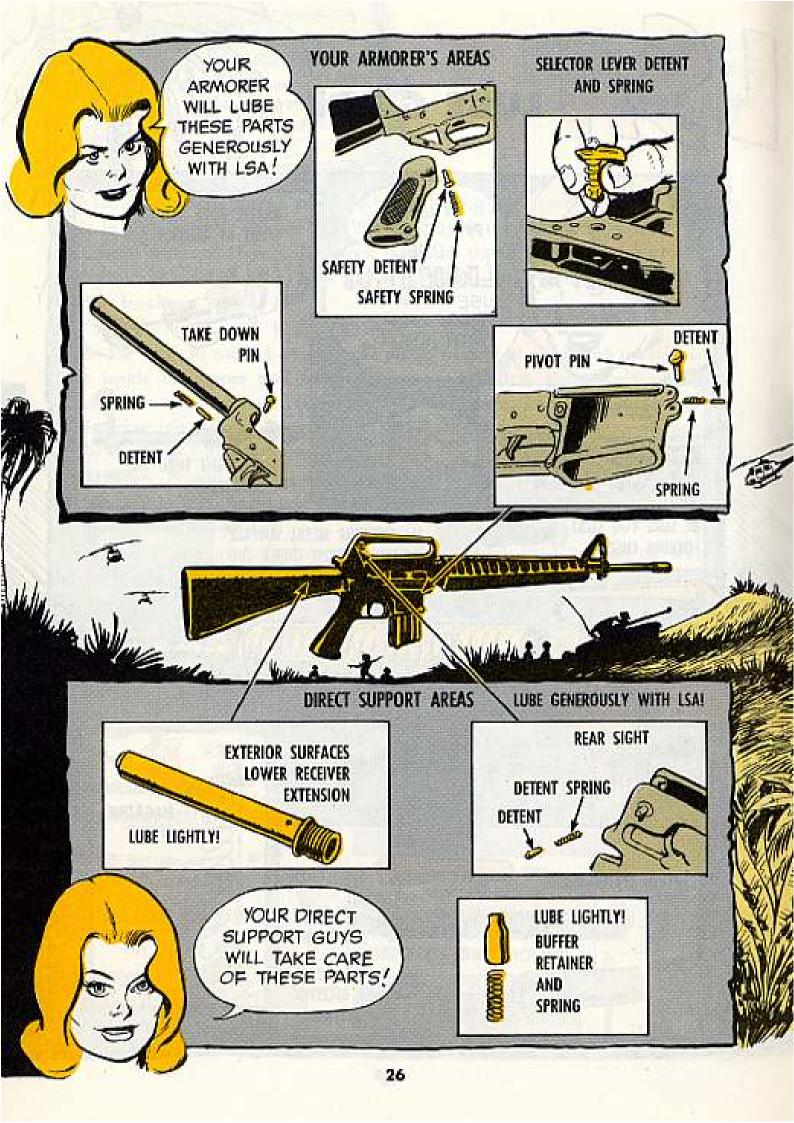


LOWER RECEIVED

INSIDE

ACTION SPRING

EXTENSION



FLASH ON THE FLASH

Don't get impatient if you see another guy with a new closed-type flash suppressor on his M16A1 rifle. Your turn will come.

The new suppressor, answering to FSN 1005-933-8089, was developed as a result of gripes that the old 3-prong open-type (FSN 1005-056-2248) catches on vines and bushes.

The closed-type suppressor's being produced for the latest M16A1's only and as spares for these new weapons. It'll be a while probably before there'll be enough around to replace the open-type suppressors on all weapons, which do just as good a job of flash suppressing.





NEW BUFFER AVAILABLE

OLD



NFW



Here's hot news: There's a new and better buffer (action spring guide assembly) available for your M16A1... no fiber washers and no hydraulic leaks.

Get your Direct Support people to install one for you soonest. The new one comes under FSN 1005-937-3078.

It'll replace the old one . . . FSN 1005-992-6658.

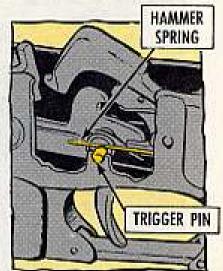
SPRING GOES ON TOP

Watch it, you armorers, when you're installing the hammer spring, hammer pin and trigger pin on an M16A1 rifle.

The ends of the hammer spring must go on top of the trigger pin, with one end of the spring resting in the groove of the pin.

If you goof up and get the fingers of the hammer spring under the trigger pin, the poor Joe who goes to fire it won't get any action 'cause the hammer then won't have enough tension to hit the firing pin.

Incidentally, you can put the hammer and trigger pins in from either the left or right side of the receiver, mox nix.





A selected list of recent publications of interest to Organizational Maintenance Personnel. This is a list compiled from recent Adjutant General's Distribution Center Bulletins. For complete details see DA Pam 310-4 and Ch 5 (Fab. 67) and DA Fam 310-6 and Ch 3 (Apr. 67).

TECHNICAL MANUALS TM 3-1040-251-15, Jun, Test Set, Flame Thrower-Riot Control Agent Disperson Hydrostalic-And-Volumetric, 6,000 PSI, M5. TM 5-337, Cl. Jul, Paving And Surfacing Operations. TM 5-3431-201-25P, Jun, Welding Machine, ARC: Gen; Diesel Driven Single Operator; Remain Control; 300 AMP DC ARC; Skid Mid; 60 AMP 20 Y Min, 375 AMP At 40 V Mox, Current 115 Y, J KW Avx Power (Libby Mod OPW-300). TM 3-3600-201-ESC, May, Grader, DED, Colerpillar 12, 212, Lelaurneau Westinghouse 220, Adams 550, Galion 116, 118, Huber Worco 4D, Rome 402, Ridell Mod Worce 4D-100. TM 5-6115-405-15, Jul, Gen Set, Ges Eng: 0.125KW, AC, 115V, Single Phose, 400 Cycle; Special Purpose; Portable: W/Carrying Case (Homelite Mod XLA 115/1/400-19). TM 9-1400-426-12, C1, Avg, Redeye. TM 9-1400-500-12/2, Jel, Howk. TM 9-1330-202-25, Jul. AH-1G-Helicopher. TM 9-1410-302-12P/1, Jul, Surgeont. TM 9-1410-375-12P/1, Jul. Parshing. TM 9-1430-377-15P/2, Jul. Pershing. TM 9-1450-250-15P/3/1, Jul. Nike-Herc TM 9-2300-216-20P, C3 (Corr Copy), Jun, Gun, SP, M107 and Howitzer M110. TM 9-2300-224-ESC/2, C1, Jun, Carrier, Marter 107-MM, SP M106. TM 9-2300-224-ESC/6, C1, Jun, Cor-risc, Personnel, Full Tracked Armored, M113A1. TM 9-2300-224-ESC/7, C1, Jun, Cor-

rier, Morter, SP, M106A1.

VIZA/MTO, VIBA/MTQ.

Thrower SP M132A1.

TM 9-2300-224-ESC/8, C1, Jun, Cor-

rier, Cmd Posts Light Tracked M577A1. TM 9-2300-224-ESC/9, C1, Jun, Flame

TM 9-2300-224-45C/11, C1, Jun. Car-

TM 9-2320-209-10, C3, Jun, 21/3 You

Trucks M34, M35, M35A1, M35A2, M36, M44, M45, M47, M48, M49, M49C, M50, M58, M59, M60, M109, M109A1, M109C, M109D, M185,

M292/M292A1, XM 567,

rier, Cargo, Fell-Tracked, M548.

TM 9-2320-222-ESC, C1, Jul. Recovery Yehide, Full Tracked: Med TM 9-4935-253-15P/1/1, Jun. Nike-Here. TM 9-4935-306-15P/2/1, Jun. Sergeont. TM 9-6920-310-12P, Jul, Sergeont. TM 9-8140-375-12P/1, Jul. Pershing. TM 10-281, May Field Bakery Operations. TM 10-500-18, May, Airdrap: Rigging K-Ton Cargo Trailers, M416 and M100. TM 10-500-30, Jun, Rigging of Road Scropers. TM 11-5805-413-12, Jun, Multiplexer Sel AN/TCC-70. TM 11-5820-284-15, Jun. Radio Pecciving Set AN/ORR-5. TM 11-5820-538-12, Jun, Mast A8-577/GRC And Eat Kil, Most MK-806/GRC. TM 11-5020-667-12, Jun, Radio Set AN/PRC-77. TM 11-5820-699-15, May Baseband Squalch Unit Rel Type 1056. TM 11-5825-246-15, May, Radio Beacon Set AN/TRN-24, TM 11-5835-230-20P, Jul. Recorder-Reproducer, Sound RD-242/G. TM 11-6110-241-15, Jun, Regulator, Voltage CN-1214/G. TM 11-6110-242-15, Jun. Regulator, Voltage CN-1146/FBC-93. TM 11-6130-250-15, Jun, Charger, Bottery PP-4127/U. TM 11-6230-219-12, Jul, 2,2-KW, 23-Inch Xonon Search Light. TM 11-6625-230-25P, Jul, Motor, Audio Level ME-71 () / FCC. TM 11-6625-289-15, Jul. Test Sets. Bottery AN/USM-63 And AN/USM-63 And AN/USM-63A: TM 11-6625-438-15, Jul. Voltmeler, Electronic AN/USM-98, TM 11-6625-917-15, Jul. Rodor Test 541 AM/UPM-29A, AN/UPM-29B, AN/UPM-29C. TM 11-6625-935-12, Jul, Audio Oscillaters TS-312/FSM-1, TS-312A/FSM-1, And TS-382/U, And Sig Gen TS-3128/FSM-1. TM 11-6625-1536-15, May, VHF 5lg

Photo Flacker System, Bench LS-69. TM 11-6780-220-12, Jun, Test Set, Photo Flusher System, flight Line 15-70. TM 55-405-3, C4, Jun, All Fixed And Rolor Wing. TM 55-405-3, C6, Jul, All Fixed And Rolor Wing. TM 55-405-7, C2, Jul. All Fixed And Rotor Wing, TM 55-1510-201-20P, C2, Aug, U.S. TM 55-1510-203-20PMP, Jul, U.S.

MODIFICATION WORK ORDERS

MWO 5-4310-225-50/1, Aug, Compressor Air Schromm Mod MWE-60 LUPGEME) MWO 5-3805-231-30/1, Jul, Scroper, Towed, Euclid Med 585 N-O. MWO 5-3805-254-30/1, Jul. Motor, Outboard, 25hp Chrysler Mod G35691. MWO 8-8120-200-20/1, Jul. Cylinder, Compressed Gas, USP Nilrous Oxide, Size M., 2000 Gal, Emply-Modify Valve Outlet, MWO 9-1240-293-40/2, Jul. Gun 175MM, M107 and Howitzer, 8-inch, M110. MWO 9-1400-377-30/24, Aug. Penhing. MWO 9-1450-375-30/32, Aug. Pershing. MWO 9-2300-224-30/25, Aug. Carrier, Cmd Past, Light-Tracked, M577, and MS77A1 MWG 9-2320-224-30/6, -30/8, C1. Jul, Carrier, Cmd and Recon Armored. MITA/MITAAL MWO 9-2350-208-30/4, Jul. Tonks

TECHNICAL BULLETINS

MWO 9-2805-220-30/2, C2, Aug.

MWO 55-1930-203-30/2, May,

MWO 55-1930-203-50/1, Aug.

Corrier, Cmd And Recons Armored

M48A2 and M48A2C.

lighter, Amph, LARC LX.

Lighter, Amph, LARC LX.

M114/M114A1.

18 5-337-1, May, Central Mix Plant And Slip-Form Paver. TB 11-5895-514-15/1, Aug. Collibration And Maintenance Calibration Requirements for U.S. Army Electronics Cmd Test And Measuring Equip Of The Integrated Wide Band Commo System. TB 34-9-261, Aug. Morking Of Con-tominated Or Dangerous Land Areas. 18 55-1500-206-20/6, Aug. UH-1A-18-1C-10, AH-1G. TB 55-1500-308-25, Aug. All Fixed And Rolor Wing. 18 55-1510-202-20/4, C1, Aug. O-1.

TM 11-6760-232-15, Jun, Test Set,

Gen, Hawlott-Packard Mad 60BE.

TM 11-6665-230-15, Jun. Radios Set

TM 11-6660-255-12, Jun, Wind

Measuring Sets AN/PMQ-6 And

TM 11-6730-229-12, Jul, Malion

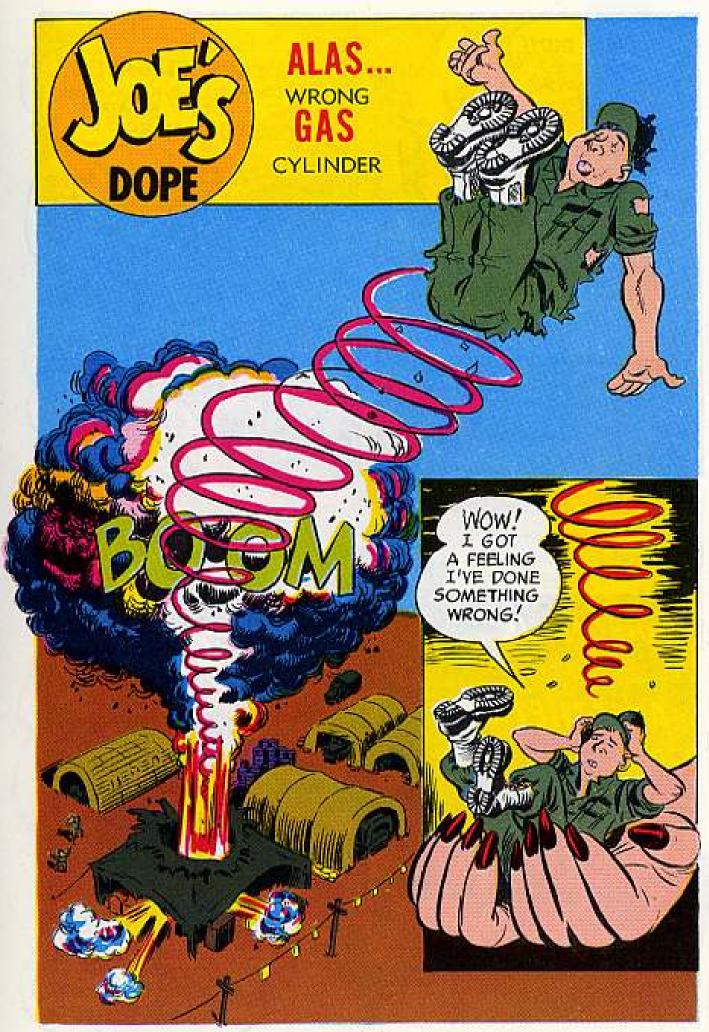
TM 11-6760-228-12, Jun, Flosher

System, Photographic Aircraft 15-59.

AN/PMQ-6A.

AN/PDP-278.

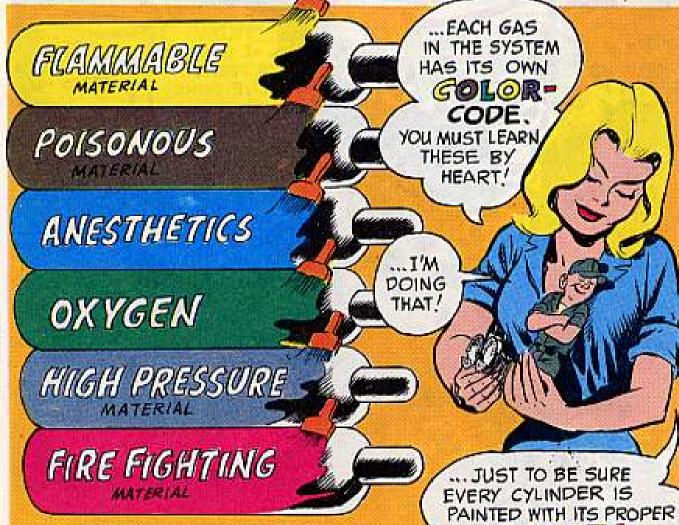
Pirture, Sound, 16MM.







GOLOR!













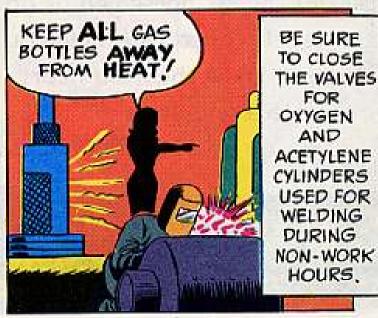


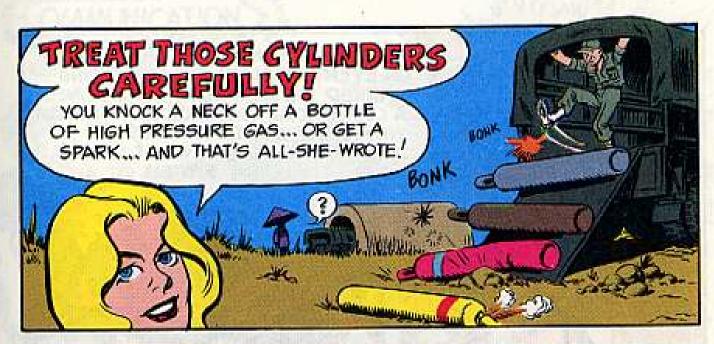


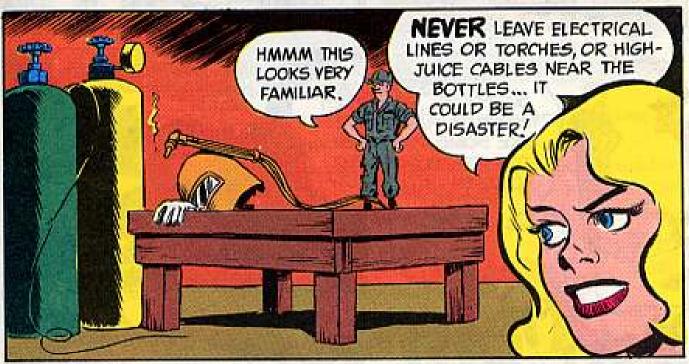








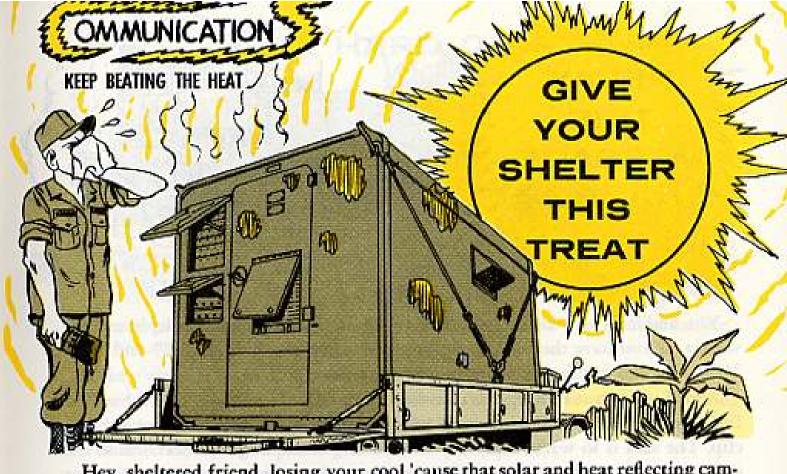












Hey, sheltered friend, losing your cool 'cause that solar and heat reflecting camouflage paint has been knocked, scratched or worn off?

Like, f'rinstance, you're getting a heat buildup that's causing heat breakdown of fuses, capacitors . . . and operators . . . in the AN/GRC-46() or AN/GRC-26() radio set or AN/MRC-69() radio terminal set, or other etc., shelter equipment.

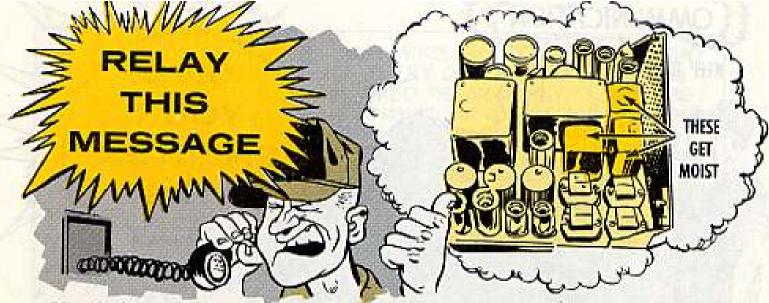
Don't sweat it. Spot or touchup paint it with the infrared penetrating OD to keep the temp toppled.

The solar heat paint, Mil Spec E-46061 (MO), is a GSA-5 item. FSN 8010-905-7133 will get a qt and FSN 8010-985-7258, a gal.

Be sure the area you're painting is clean and has the white undercoating before putting on the solar heat paint. FSN 8010-878-5761 is for a qt of lusterless white and FSN 8010-297-2111 is for a gal. The stock numbers are listed in DOD Catalog C8000-IL-A (Jan 66).

Remember, never use regular OD for touching up your cool coated shelter or it'll be back to its old hotbox self.





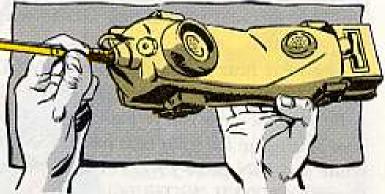
You find 'em everywhere — those TA-182/U signal telegraph-telephone converters. If you have the equipment, you know that the AN/MRC-69 and AN/MRC-73 radio terminal sets are two of the places.

And if you want to keep the converters out of your support unit's hands a little longer, fire up the equipment at least three times a week for an hour at a clip. The idea is to warm away any condensation that might collect inside the three relays for each converter. Moisture can make the relays stick . . . and that means a DSU repair job.

While you're at it, you might give the same "heat treatment" to your spare converters.

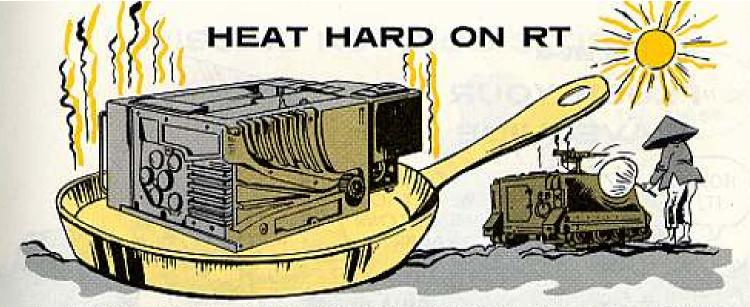
TESTING? USE YOUR ANTENNA





Next time you're about to make an operational test on your portable radio set (AN/PRC-6, -8, etc.) be sure you attach the antenna first.

Like, putting the power to the set without an antenna or a proper 50-ohm dummy load can blow the power amplifier tube. Not only does it cost you a new tube, but, more important, it puts your set out of action.



There's enough heat in torrid territory hanging around your tracked vehicle's AN/VRC-12 series radio set without heaping on more.

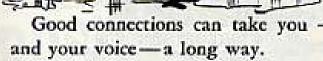
Take f'rinstance, the RT-246 or RT-524 receiver-transmitter. . . .

You have to keep the blower intake and exhaust ports free of packs, clothing or other equipment or the radio will choke up, overheat and conk out on you. It's even better if you keep that gear off the set completely.

While you're in the remembering mood, clean the blower motor vanes and heat exchangers to help hold the heat down. Dust and dirt can gang up on that RT quicker'n a water buffalo can wink.

Para 21 in TM 11-5820-401-20 (Dec 61) fills you in on cleaning the vanes and heat exchangers.

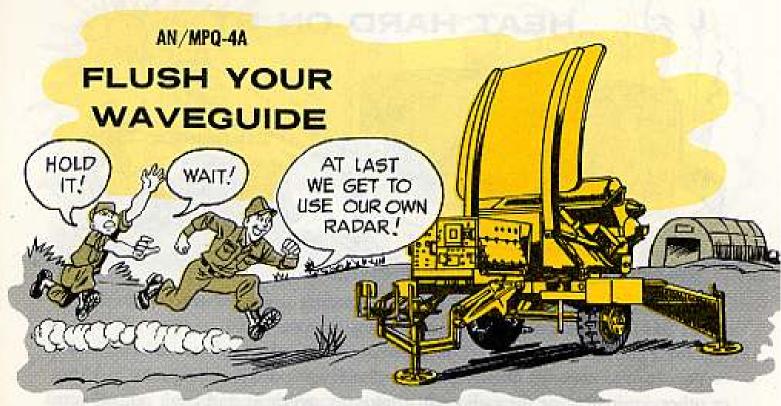
FOR A1 SHAPE-TAPE



And one thing that'll help when it comes to your AN/VRC-12 series radio sets is to make sure the antenna base connector is clean . . . minus corrosion.

When the antenna's off, the connector takes a beating from the weather, salt air and what-have-you. So keep it covered with tape—but keep the adhesive away from the connector. If it sticks to the connector, you've got an unwanted insulator.





Keep that flippin' finger from turning on magnetron switches to your AN/MPQ-4A radar set, especially if it has been lazying around for awhile.

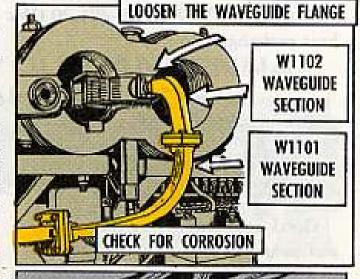
'Cause there're a couple or three "pre-operation" things you have to do to block moisture and corrosion from getting the upper hand and knocking out the

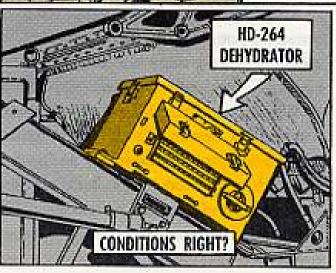
Take, f'rinstance, the waveguide to the magnetron in the OA-1257 receivertransmitter control group.

Loosen the waveguide flange connected to the maggie, without fingertouching the window, and leave it loose for 10 to 15 minutes. This is so you can rid the waveguide of moisture that has ganged up on you.

O'course, waveguide sections W1101 and W1102 should be taken apart to be eyeballed for clinging corrosion at least once a month... or more often if you're in an area where high humidity is hanging around.

One word of caution: Be sure the condition, indications and corrective measure for the HD-264 dehydrator are right, like it says in Para 81, Item 9, TM 11-5840-208-10, before you operate the transmitter.







Dear Half-Mast,

On one of our new RT-524 receiver-transmitters the KC knob turns all the way around and doesn't stop at the end of the scale. Our support says don't sweat it 'cause some of the new models do this.

NAH!

I haven't seen anything on this in tech manuals. Does this affect the RT?

SP5 W. C. S.

Dear Specialist W. C. S.,

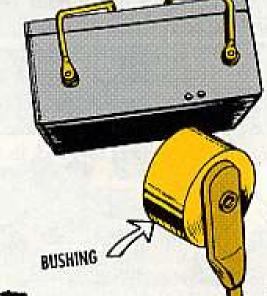
No. Certain models don't have a stop on the KC knob. The only thing this minor manufacture change might do is speed up frequency shifting since you don't have to go through the entire freq range to get from one end of the scale to the other. Half-Mast

Extra The Maintenance Daily Final BUSHING HOLDER GETS FSN

A bushing-less metal clasp or spring holder assembly for your AN/URM-

105 multimeter is about as useful as a bald dome in a hair ad.

So-o-o-o, brush this assembly part problem aside with FSN 6625-947-9808, which includes the bushing. The assembly replaces the old bushing-less spring holder, FSN 6625-655-8045, in TM 11-6625-203-20P.





AVOID AWFUL JOLTS ...

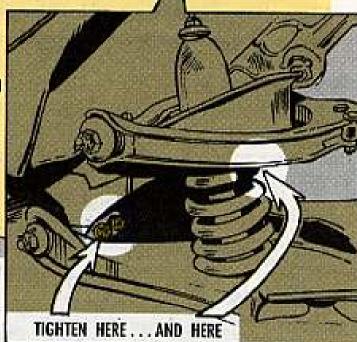
TIGHTEN M151 FRONT BOLTS

HEY! WE'RE

GREAT AS LONG
AS WE KEEP MOVIN'
... JUST WAIT'LL WE SLOW
DOWN... OY!!



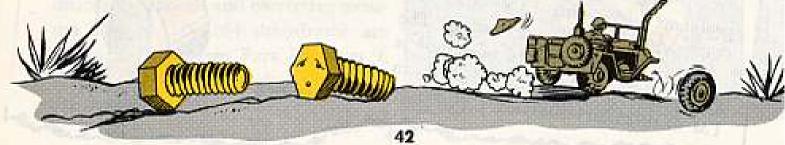
Your M151 1/4-ton truck would be kind of hard to drive with one front wheel gone.



That could happen if you don't check 3 important bolts on each side every week or two. There's a dozen bolts up front that could loosen and hurt you, but these 3, 'specially bear watching.

They're the 2 in front and 1 in rear on your lower front suspension arms that hold in the adjustment shims. They come loose, the shims drop out, and you may think you've got a bum wheel bearing.

Best not be taken in, but have your mechanic take up the slack instead. He'll torque the front pairs to 45-55 lb-ft and the back ones to 60-70 lb-ft.



M151 1/4-TON TRUCK ... GAS TANK STRAINER



Hard up for a strainer in your M151 1/4-ton truck's gas tank? And there's none available in those washed-out M151's at your cannibalization point?

Well, if your bone yard's got any M38A1 1/4-ton trucks, you may be in luck. The fuel tank strainer in the M38A1 is just like the strainer in the M151.

M151 1/4-TON TRUCK ...

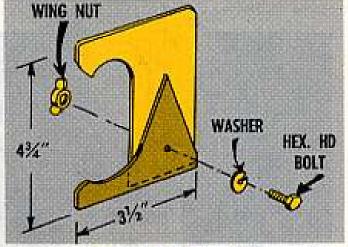
BALL-JOINT TOOL

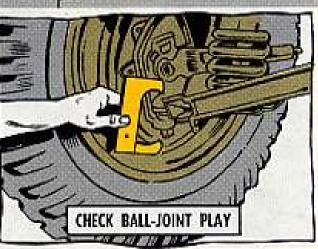
If you don't rate Tool Kit, Set B, for your G838-series 1/4-ton trucks, then you don't have an outside caliper for checking ball-joint play.

But you can make a simple tool that'll do the job.

Cut the 2 parts out of a piece of sheet metal. Fasten 'em together with a ¼-in bolt, spring washer and wing nut. Snug the wing nut down enough so you have to work just a little to make the "jaws" move. Shape doesn't make any difference — just make sure the points are out far enough from the "handle" so it clears the ball-joint assembly.

Para 141 and Figure 134 in TM 9-2320-218-20 (Apr 63) show how you check for ball-joint play. The same info will go along with your homemade caliper.





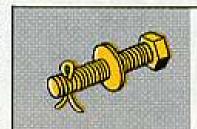
PIN LOST? USE BOLT

Now you can use ordinary bolts 'n' nuts when those retaining pins on your M151 ¼-ton truck go AWOL. This goes for all vehicles in the G838-series family.

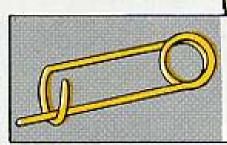
Some of these pins are non-supply items and hard to find at your cannibalization point. If you can't find the right pin, Article 247 in TB 750-981-1 (Jan 67) says you can use a standard nut 'n' bolt or any other kind of pin that'll fit good and do the job.

This TB article mentions only the seat holddown pins, but there's no reason it can't be applied to those other hard-to-find pins too. Like all "fixes" in the TB, this's a recommendation. You'll need your CO's OK to make this local SOP. Then you won't get gigged for having these strange-looking pins on

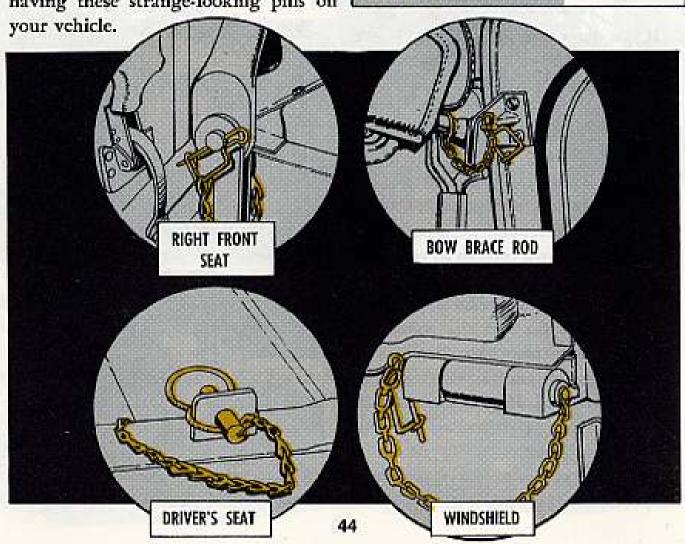
NOT PERFECT,
BUT ANY BOLT
AND NUT OR
A RETAINING PIN
WILL DO THE
JOB NICELY!



CUT BOLT LENGTH TO SIZE, DRILL HOLE NEAR END, ADD WASHER AND COTTER PIN OR...



... RETAINER
MADE OF
COAT HANGER
WIRE



BRAKE LEVER SHIELD

NEW-TYPE HANDBRAKE LEVER GETS NEW-TYPE DUST SHIELD. SOME PUST!

That's the word for your M151A1 1/4-ton truck if its serial number comes after 2K-4754. So you get Shield, Dust, Parking Brake, FSN 2530-832-5658, for your over-center type handbrake lever. This item's for -20P users but it's not in any supply publications yet — so make sure you specify RIC B24 when you request it.



21/2-TON MULTIFUEL ENGINE ...

MOUNTING BOLTS LOOSE?

I TOLD YOU THEM MOUNTING BOLTS WERE LOOSE!!



Trust your girl and the weather forecast and your best friend — if you want to — but never take it for granted that tight engine mounts are going to stay tight.

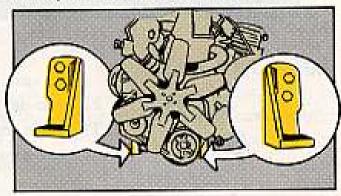
On your 2½-ton multifuel engine truck, vibration can work at those bolts 'n' nuts until the engine suddenly decides to take a nosedive into your radiator. What a mess!

Keep a close check, especially on those horizontal nuts 'n' bolts that fasten the front mounts to the engine. Get down in there, or underneath, real often and make sure they're tight. If they're loose, tighten 'em.

Waste no time on mounting bolts or nuts that've gotten the least little bit damaged — bent, cracked, threads stripped. Replace 'em rightaway with Bolt, FSN 5305-582-8545, and Nut, FSN 5310-933-7839.

Torque 'em to 75-80 lb-ft.

Drivers are the first line of defense against loose engine mounts. So make this a part of your reg'lar in-under-and-around inspection. If you slip up on this, you may find yourself in a mighty embarrassing — and uncomfortable — fix when you're out on the road.



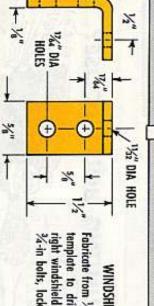
HOOK HOLDS HOOD

No DIA HOLE

No DI

Fabricate from %-in steel rod. Secure with

RETAINING ROD



WINDSHIELD BRACKET

Fabricate from 16-in steel plate. Use as template to drill 1754-in holes in top right windshield post. Secure with 132 x 34-in bolts, lack washers and nuts.

AN MG-RING

Get rid of that broomstick, rope or wire. Now you can have a regular hook to hold up the hood on your 2½-ton truck that's equipped with a machine gun ring.

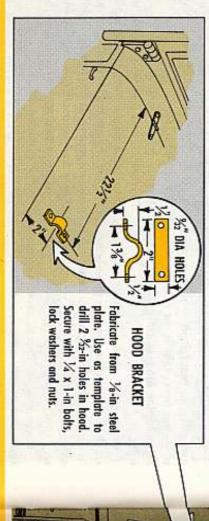
This's all fabricated except for a few common hardware items and 1 part from your truck's original hood hook setup. Article 247 in TB 750-933-1/3 (Jul 66) authorizes this fix for any G742-series or G744-series truck with the ring mount.

GOT A TRUCK WITH

HERE'S THE HOOD FIX YOU NEED IF YOU'VE

You may have to make slight changes as you go along to get this setup just right on your particular vehicle.

REMOVE CLIP FROM COWL AND PLACE HERE



YOUR MULTIFUEL TRUCK ...

OIL FILTER

You can flip your lid trying to figure out why your 2½-ton or 5-ton multifuel truck's oil filter is leaking. Then you may find that you flipped the oil filter element cup last time you installed a new filter element.



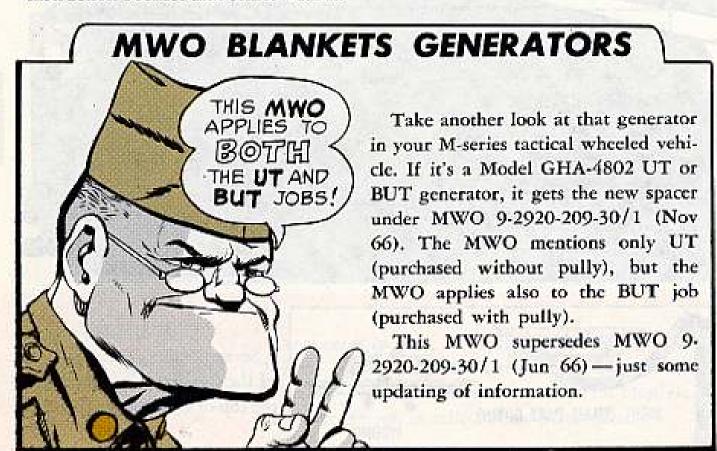
So remember, the small part of the cup drops into the hole in the top of the filter element.

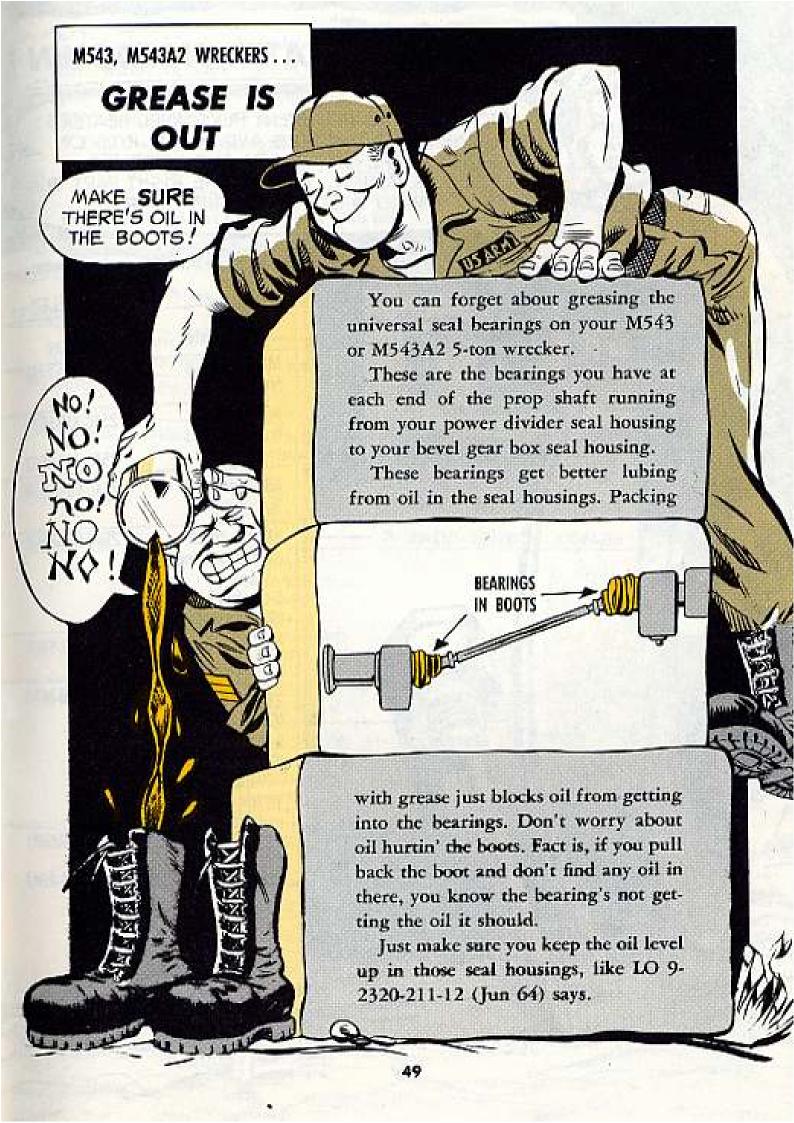
6



Make sure you get Ch 3 (Feb 67) to TM 9-1870-1. It gives you the latest dope on repair of tubeless tires—both commercial and tactical types. It includes demounting and mounting tools. It also shows you the new tubeless tire repair kit that you can use to repair punctures without taking the tire off its rim.

But make a change to your change. In Table 1, cross out FSN 4910-695-9634 for Mounter and Demounter, Pneumatic Tire. Instead, there's a new compressed air-operated mounter and demounter — FSN 4910-925-4110. Instructions in the TM don't go with this new piece of equipment, so make sure you don't lose the instruction booklet that comes with it.





PERSONNEL HEATER HOEDOWN

MATCHING UP 13 DIFFERENT PERSONNEL HEATERS
WITH THE RIGHT IGNITERS AND PARTS KITS ON
UMPTEEN DIFFERENT TRACK AND WHEELED
VEHICLES IS ROUGH. TO GET THE RIGHT PART, JUST
PLAY IT SMART AND FOLLOW THIS CHART...

Unpainted igniter barrels reflect so much heat that they sometimes melt igniter coil wires. Igniters FSN 4520-790-8417 and 2540-319-5933, are issued unpainted and should be dipped in heat-resisting black enamel paint (Spec Fed TT-E-496) before they are installed.

Dip ¹³/₅₀ inch of the igniter barrel into the enamel and air dry, being careful not to let the enamel plug the ventilating holes in the base of the igniter barrel. Order the enamel as FSN 8010-297-2013 for the 1-qt can. You'll find it on page 13 of Fed Cat C8000-IL-A (Jan 66).

	Ō				0			
	10-ton truck (G792) gasoline	2½-ton truck (G742) multifuel, 5-ton truck (G744) multifuel, and 10-ton (G792).	2½-ton truck (G749) and M220 van	(G742) gasoline and 5-ton truck (G744) gasoline	34-ton (G741) 21/2-ton truck	truck (G838)	M38A1 ¼-ton truck (G758)	2
	2540-319-5931 0r 2540-288-4963	2540-960-3630	2540-692-8848	TANGE OF THE PARTY	2540-692-8848	2540.736.8563 2540.692.8849	Heater 2540-039-7784	MHEELED
	2540-319-5933 2540-656-2314 2540-371-6810 2540-656-2312	4520.790.8417 2540-785-6349	2540-770-0170	Edge and other	2540-770-0170	2540-319-5933 2540-656-2314	Igniter Including Igniter 2540-319-5933 2540-656-2314	VEHICLES
42A1. M52. nd M55	M113 PC tamity. (G294) gasoline 2 M113PC family 2 (G312) diesel 2 M114/M114A1 2	~ 8		š	M48A2, M48A2C 25	tanks	Vehicle W41 series 25 light tanks	The second second
2540.692.8948 2590.695.5164 2540.692.8948 2590.695.5164 2540.655.9930 2540.049.4198 2540.656.2314	2540-555-9230 2540-333-1582 2540-656-2315 2540-854-4449 4520-790-8417 2540-785-6349 2540-854-4449 4520-790-8417 2540-785-6349 2540-319-5931 2540-049-4198 2540-656-2314	2540.967-3352 2540.941.8681 2540.055-7573	2540-854-4449 4520-790-8417 2540-785-6349		2540-336-8053 2540-019-4198 2540-636-2314 or 2540-204-2489 2540-333-1582 2540-636-2315	2540-319-5931 2540-049-4198 or 2540-288-4963 2540-371-6810	Heater Igniter 2540 692-3848 2590 695 5164	
2540-656-2314	2540,333,1582 2540,656,2315 4520,790,8417 2540,785-6349 2540,049-4198 2540,656,2314	2540.055-7573	2540.785-6349		2540-656-7314		Parts Id Including (pailer	
			7/		74			

M88 VTR



Here's an easy one for you.

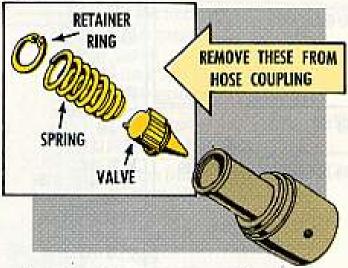
The M13 and M13A1 gas particulate filter units — in M60 and M60A1 tanks and M728 combat engineer vehicles — must be checked soonest for an unwelcome self-sealing valve in the air hose couplings.

That's the quick disconnect couplings that hook the air hoses to the mask canisters. The valves must come out because they'll block pre-heating of the hose in cold weather and they can cause damage to the filter unit's electric heaters.

Be sure to check the coupling for each mask. Just pull the coupling from its orifice connector and check inside the coupling for a valve. If you find a coupling empty you're in luck, just reanchor the coupling. But, if it's rigged with a valve here's what you have to do:

Unlatch the hose clamp and remove the coupling from the hose.

Then pry out the retaining ring holding the spring and valve in the coupling. Once the retaining ring flips out the spring and valve will slide out easylike.

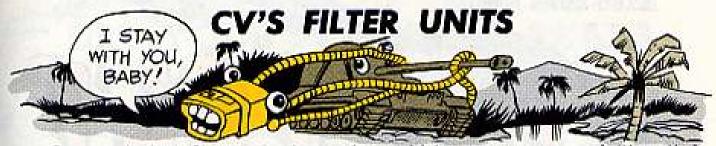


Replace the empty coupling in the hose and lock it in place with the hose clamp. Anchor the coupling to its orifice connector and you're done.

You can discard the retaining rings, springs and valves.

Record the job on the filter unit's DA Form 2408-3.

Hose coupling, FSN 4730-935-1643 minus the valve is getting listed in changes to filter unit TM's.



Gas particulate filter units in combat vehicles are now tagged "installed equipment." That means, no matter when or where a filter unit was installed, it must stay with the equipment all the way back to CV rebuild.

The filter units will be deleted from TOE's eventually, but for now EIR and Maintenance Digest TB 3-600 (5 Aug 66) gives the word. CV's TM's, too, will be changed to cover the filter units.

Only exceptions to the new rule are the M113 APC's and M42A1 40-mm SP guns. Filter units are not authorized for those vehicles.

GAS AND WATER CANS . . . ONE-PIECE STRAP



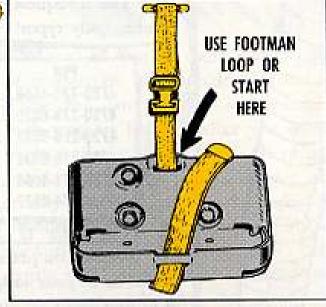
Simple does it. Now you can secure your gas or water can on your tactical wheeled vehicle with one long strap. When the 2-piece job fastened to the bracket gives out, just replace it with—

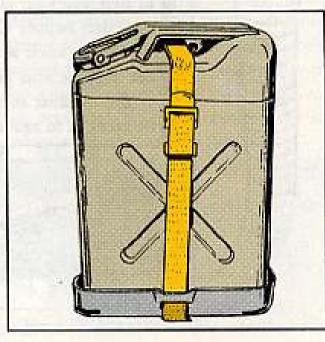
Strap, FSN 2540-968-4060, listed in Fed Cat C2540-IL-A (Apr 66).

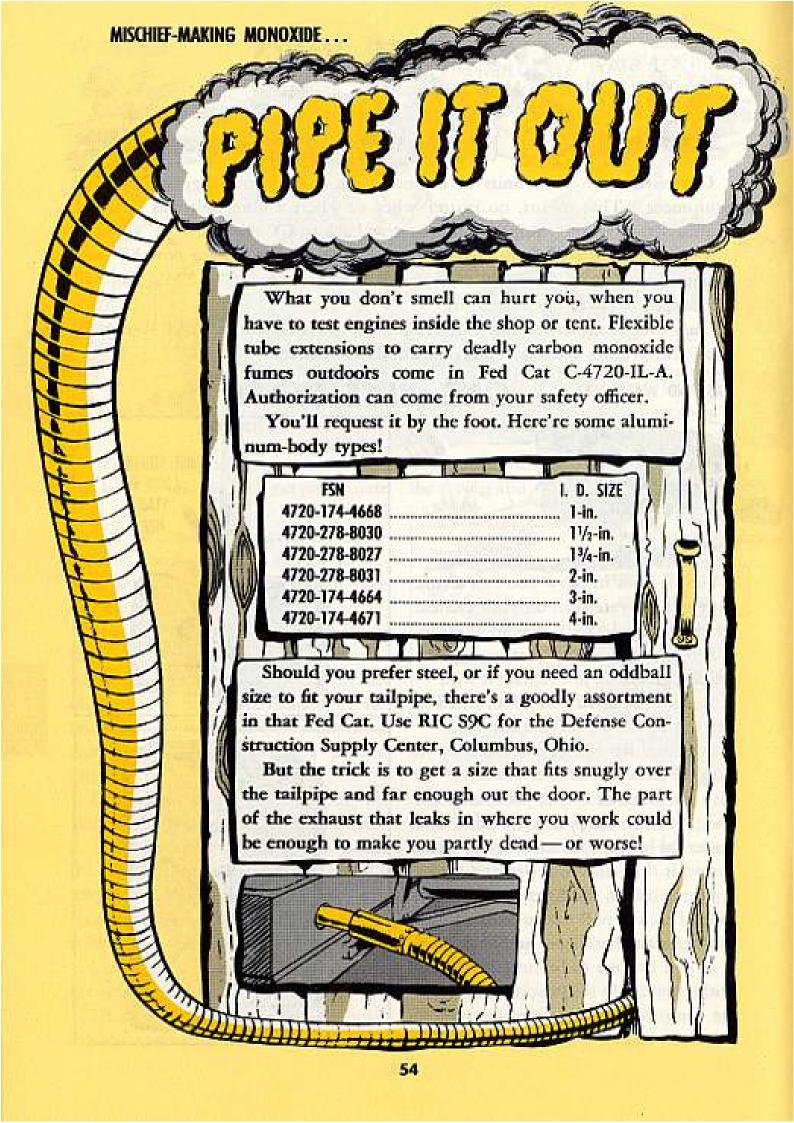
Start the tip end of the strap down thru the back slot in your bracket — or thru the footman loop if your setup has one. Run the strap down behind and under the bracket out to the front. Then thread it thru the front slot and up.

Now you set your gas or water can in the bracket, pull the buckle end thru under the can handle — and buckle up.

If you happen to be runnin' around without a can in the bracket, you'd better keep the strap buckled anyway so you don't lose it.

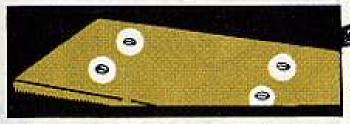






DRY YOUR FERMONT'S TEARS

Rainwater seeping into your International-Fermont 10 KW SF-10-MD generator outfit? Likely those 4 holes on top of the control panel are part of the trouble.



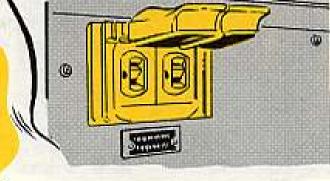
Those 4 holes were put in for a fire extinguisher bracket, but plans got changed. Just plug with 3/16-in cap screws (round head, slot, or hex) and touch up with paint.

Another leak point could be the convenience outlet. The receptacle cars may have been put in front of the panel. That will keep the gasket from scaling. You can tell by taking out the screws holding the lower hinged panel and swinging it up. Unless it looks like this, you need a switcheroo job.

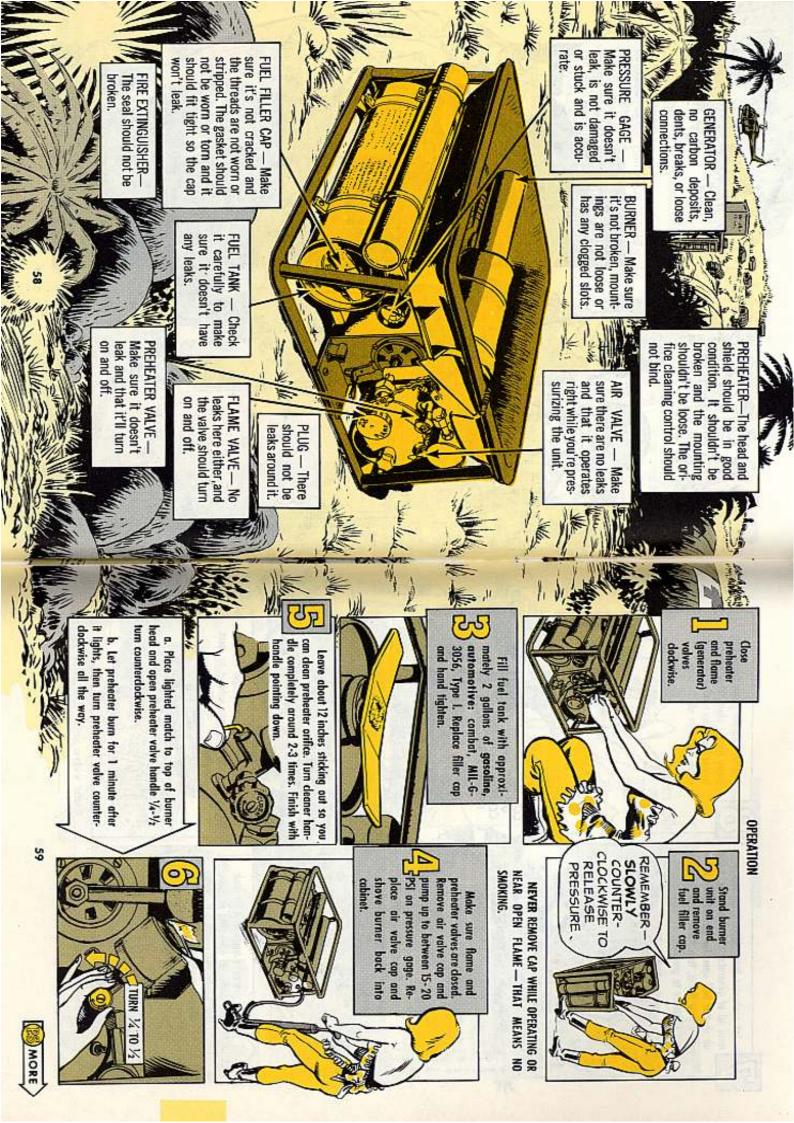


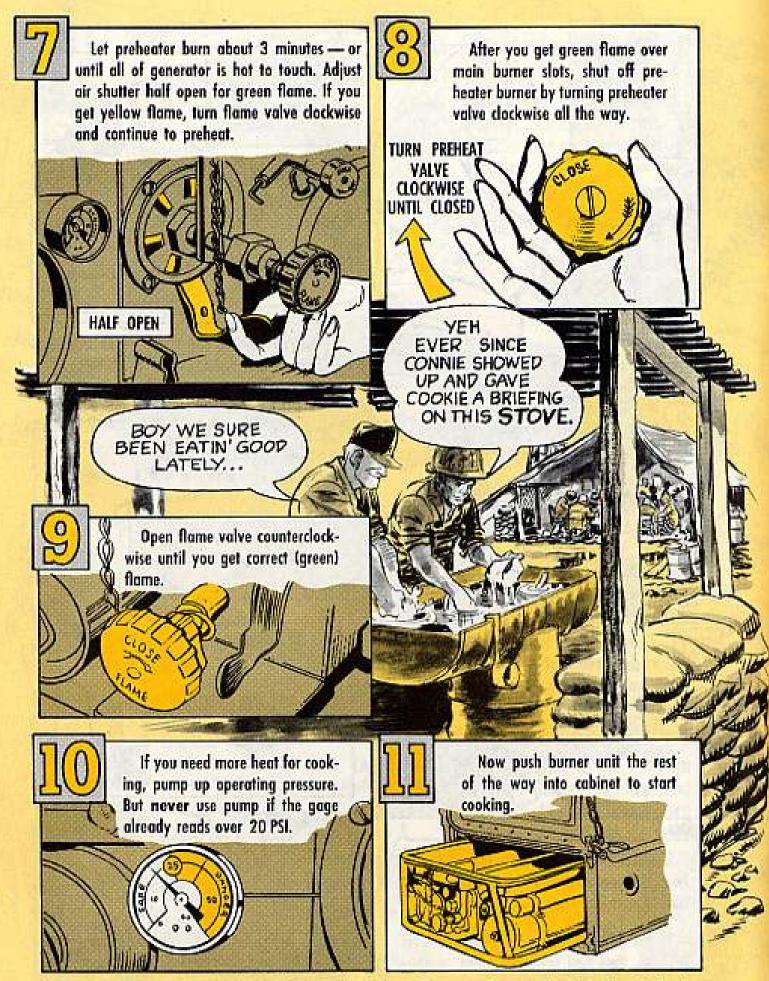


It may be that no more than a pair of cross-recess screws hold the outlet. These you can take out and refasten with washers beneath after you move outlet and ears to the back side of the panel. On a 2-screw pressed nut assembly, though, you'll need to take off the outlet and cover, put a heavy hollow backup bar over the nuts, punch out gently with about a 1/8-in punch, and then make with your "to the rear, March!" on the ears. Then new 3/32-in screws set in will hold the gasket tight behind the cover. You'll wind up with this kind of arrangement and touch up the scratches with the same kind of painty stuff you used before.









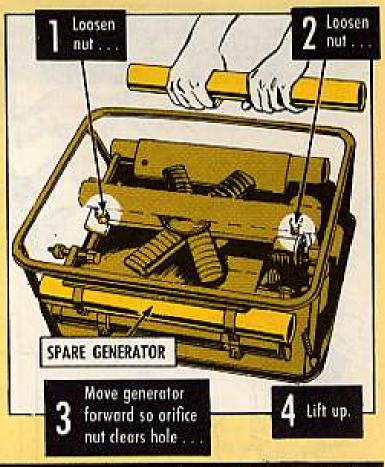
When you want to shut off the unit, close flame valve and place knob in its clipholder.

GENERATOR REPLACEMENT

You'll probably have to replace the generator after 450-500 hours operation, due to carbon buildup and gasoline lead deposits.



DO NOT RELEASE PRESSURE NEAR ANY OPEN FLAME.



Remove spare generator from side brackets. Remove inlet protector plug and orifice protector cap. Check that flame valve is shut. Transfer preheater shield to new generator. Install new generator. Make sure rear connecting nut is tight enough to prevent leaking.



REAR NUT TIGHT?

BURNER CLEANING

You'll have to clean the burner slots whenever they become clogged with dirt, carbon and spilled food. Here's how:



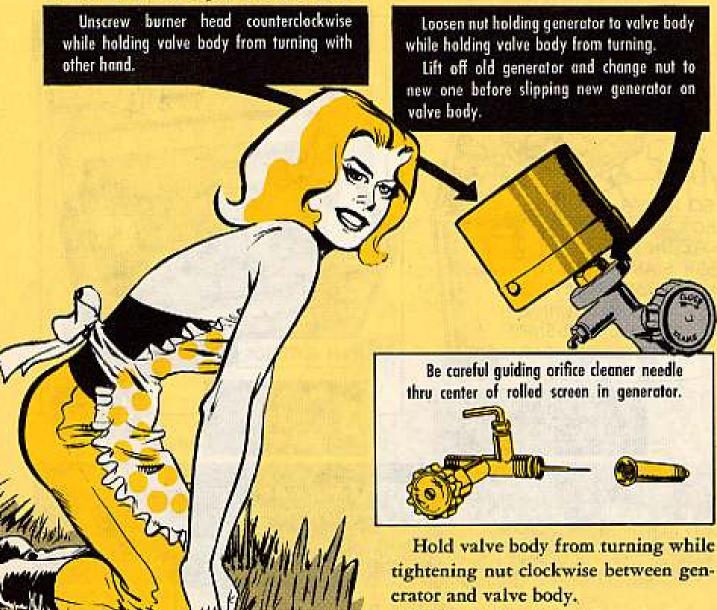






PREHEATER GENERATOR REPLACEMENT

You also have to replace the preheater generator whenever it gets clogged with carbon and lead deposits. Here's how:



Screw in burner head clockwise as far as it'll go.

HELPFUL HINTS

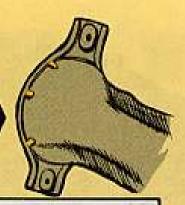
If the pressure goes over the safe operation range (into the red area of the gage), then shut the unit down and let it cool. Then remove the air valve cap and push in on the air valve until the pressure is reduced to the safe operating range. Replace cap and relight burner in usual manner.



(DO NOT RELEASE THE FUEL AIR PRESSURE WHILE SMOKING OR NEAR AN OPEN FLAME).

Leave room for fuel expansion inside tank in hot climate.

Poor spot welds on mixing chamber flange cause air spaces between mixing chamber and air control shutter . . . you lose flame control. Either replace mixing chamber (FSN 7310-999-2497) or have support reweld flange.



Handle preheater head assembly with care. If it breaks off, replace assembly with FSN 7310-



HANDLE WITH CARE

Go easy lifting the range lid . . . or it'll break off.

Your burner uses ½ gal gasoline each hour of continuous operation.

Those sharp edges on the cabinet can cut hands.

Easy on the chain holding the flame valve knob. A broken chain leads to a lost knob.

Keep metal protector plugs and caps from initial issue spare generators. Throw away plastic caps and plugs when installing replacement spares on burner unit. (Operating heat from burner will melt plastic and shorten new generator life by fouling up openings.)

KEEP YOUR RANGE IN SHAPE AND KEEP THE TROOPS HAPPY!

BASIC ISSUE ITEMS —

CASE, MAINTENANCE AND OPERATIONAL MANUALS: cotton duck, water repellent, mildew resistant (GE) FSN 7520-559-9618.

TM 10-7360-204-12 (Jul 66), Including Repair Parts



WAUKESHA POOP

CHECK THAT DRAIN COCK

A leaking drain valve on the fuelinjector pump of the Waukesha, 150-KW generator (FSN 6115-600-3404) will give you starting troubles for sure. It'll let in air and block fuel feed. So when your Waukesha has a bum valve ask for Cock, drain, fuel injection pump, P/N 211220, FSN 2910-831-7291.

BOOST THAT TOP TORQUE

While your big kilowatt-kicker, the 175KW Waukesha 6NKDBS-EU1, is in the shop for fuel drain first aid, best also do some PM on cylinder head and precombustion chambers. Lots of these units break down . . . crack the head or prefire recess.

Best bet is to be sure gaskets and O-rings are good, then go up to 4750 or 4800 in-lb on the head bolts, and drop the precombustion bolt torque to between 650 and 700 in-lb. The engineer types find these figures give better results than those in the TM.

MAKE SURE MY
GASKETS ARE GOOD...
AND MY HEAD BOLTS
ARE TORQUED!!



Oh-Oh, Look Again!

Hope you M85 machine gunners caught it. The picture on page 45 of PS 178 showed the .50-cal linked ammo facing exactly backwards. When you go to load linked .50-cal ammo in your M85 make sure the long piece (finger) on the link goes all the way to the rear of the round . . . so the end of the link fits into the ring cut in the round. Otherwise, the ammo won't feed and will bind or bend the cover. Spread the word, will you?

Ship Back Reparables

Before you scrap a chopper main rotor blade be sure you eye the blade damage limits in the bird organizational maintenance pub. And remember — if you or your support can't restore a reparable blade . . . a CONUS depot can.

Model Switch?

If — per chance — the T53-L13 engine in your Huey H Model gets replaced by another engine model, remember to change the bird back to a D Model. Paperwork changes should include an appropriate entry in the remarks column of aircraft inventory, status and flying time, DA form 1352. Mox nix on model designation for MWO compliance . . . use the bird serial numbers.

Depronged Wrong

Trying to use one of the new 3-prong extension cords with old-style 2-lead tools or base plugs, lots of people hacksaw off the round prong. That could be — and often is — fatal. Use the adapter, FSN 5935-552-4372, and ground that pigtail to the tool or a ground post . . . and postpone your funeral.

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

