

And most of the "further damage" to parts, components and end items returned to support units or depots or to CONUS results from one or more of these failures:



PLASTIC) AND SB 9-211 (22 MAY 69)

Your guides on protective packing are AR 740-20 (17 Jun 65) on preparation of material for shipment and TM 38-230-1 (24 Jan 68) plus Ch 1 (18 Aug 69) and TM 38-230-2 (9 Oct 67) on preservation and packing of military supplies and equipment. SB 38-100 (17 Oct 69) has a list of available packing materials.

Rules on markings are found in MIL-STD-129. Also, see guidelines on marking in PS 208. Your command may have issued a local SOP on this, too.

But you can avoid a lot of damage without laying an eye on a rule book.

F'rinstance, when a replacement part comes in a package, that same package can help guarantee a safe return trip for the part you remove. It can, that is, if you save the package and protective inserts and use 'em to protect the "wounded" item just as they did the new one.

And you don't need to be foxy as a fox to know that you never toss repairable items in a grab-bag box. Pack each item separately, each in its own container, to avoid bang-up.

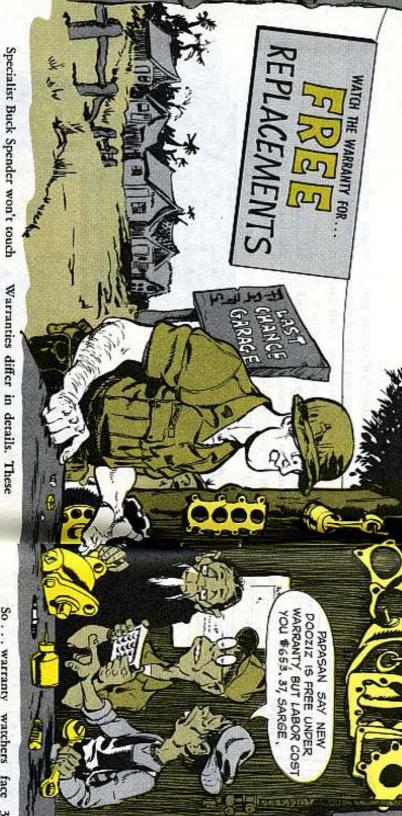
Before you pack equipment and components for return to support or depot, make sure they're cleaned as spelled out in the TM 750-series on retrograde actions — starting with TM 750-210 (24 Jul 69). See the index, DA Pam 310-4, for a complete list. You'll find one listed there for your particular equipment.





BRING THE BOX TO THE ITEM, NOT VICE-VERSA





anything marked "free." Specialist Buck Spender won't touch

in his budget. price tag, and winds up with a "short" passes up anything that doesn't have a Buck figures it's some kind of trap,

warranty costs extra dough! thru the nose-in taxes, 'cause that under warranty means paying twiceponents for Army equipment that's still Buying replacement parts and com-

a warranty the maker guarantees itmal supply stocks. On equipment with design, materials used and workmantees that the item is free of defects in In simplest terms, a warranty guaranup to a point (in time, miles or hours). warranty is ordered instead from noravailable free under the equipment That's what happens if a part that's

Military specification or other rules maker - or may be only implied in the contract or a general guarantee by the details may be spelled out in a purchase that apply.











3. How do you get action on repairs and replacements for items covered by warranty?



A 2408-8, CHECK BLOCKS IS AND IS FOR WARRANTY IF YOUR EQUIPMENT HAS STATUS

DA 2408-WARRANTY PERIOD BEGINNING

a special warranty decal. stamped on data plates, or it may be on The acceptance date also may be



are in TB 9-2300-295-15 (Jun 67). And details on warranty procedure (3/4-ton) and G890 (1-1/4-ton) series. The TB's cover vehicles of the G741



(The warranty for the M715 and M725, f'rinstance, calls for the manufacturer's own personnel to make repairs and replacements under the warranty in CONUS—if he sees fit to do it. Otherwise, the manufacturer pays the cost of labor required.) And, o'course, some items—including some vehicles—are not covered by warranties.

Some off-the-shelf commercial items used by the Army are covered by commercial-type warranties (usually for about a year) that may not be spelled out in Army pubs.

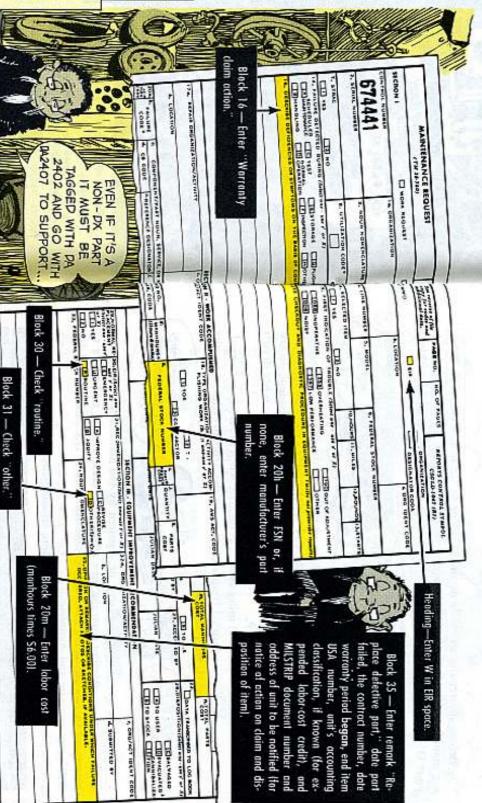
So what do you do to get this warranty service free?

1. Check equipment pubs (DA or manufacturer's) to see if a warranty applies. Also check DA 2408-8 (if there is one) and equipment data plates. (If still in doubt, check with your DS unit.)

2. If a part or component fails on equipment with a warranty, tell support before you start repair or replacement. DA 2407 is your Maintenance Request to DS, and you also use it to make all claims on equipment under warranty as spelled out in para 3-7.4.2 of TM 38-750.

USE 2407
TO NOTIFY DS FIRST!

Most blocks on DA 2407 get the same type entries for warranty claims as for other maintenance requests. But here are some special warranty-claims rules for entries by unit filing the claim and/or unit making repair:



PRE-PRINTED CONTROL
NUMBERS OF THE RELATED
2407 IN BLOCK 27 OF DA 2402.

Note the special disposition guide on DA 2407's used for warranty claims in para 3-7.4.2b(4). Copy 4 is returned, by support, to the unit where the claim originated to authorize replacement action. It's kept for 90 days or until notice that the claim has been honored.

AND USA NUMBERS IN BLOCK 27 OF DA 2402.

ITEM SERIAL

ENTER THE END

THE EIR BOX

THAT CASE

DA . 1211 2407



3. Before any repairs are made on the M715 or M725 in CONUS make sure the manufacturer has been notified about the failure. This is usually done by your DSU under local SOP. Notice to the maker normally is required within a specified time.

THIS DOOZ IZ OF
MINE BROKE DOWN
ABOUT 2 MONTHS
AGO, AND...
TOO LATE!

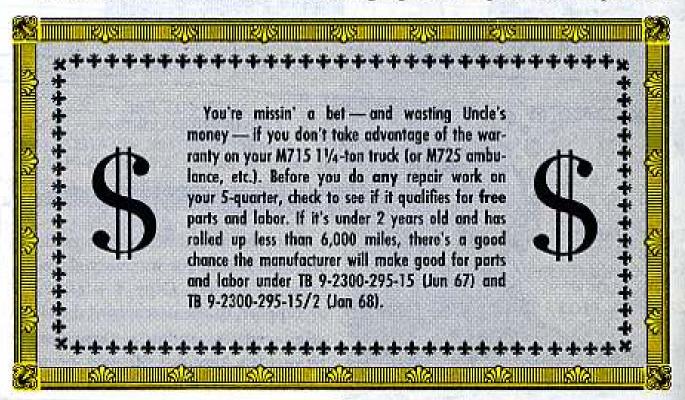
4. Note that you need to identify the end item and the part or component that failed. Use USA number for vehicle and serial number for component (if they have 'em). (Sometimes you may need to identify part, component, subassembly and major assembly to pin-point the defect.) Include any other details called for by your local SOP.

Record exact hours and miles as well as the date when the failure occurred.
 Warranty periods are measured from acceptance by the Army to failure, so make sure they're recorded, with dates.



6. Parts or components replaced or repaired by the manufacturer also may have a warranty, starting from the time repaired or installed. So, make sure replacement entries on all log and maintenance forms (like DA 2408-10 and DA 2407) are accurate and complete.

Like in life, the best are free-including replacement parts and components.





If you're operating in real dusty country, you may need:

Kit, Air Pre-Cleaner, FSN 2940-121-6169 (the price is \$15).

It's for G744-series 5-ton trucks—multifuel and diesel—with the fender-mounted engine air filter. This kit is to be installed only as-required, so you'll have to get command authorization to order it.

Your pre-cleaner will catch a lot of the big stuff before it gets to your filter. Each day you just take off the wing-nut on top of the pre-cleaner, take out the cup and dump the dust.



(But, even with the pre-cleaner, you still service your filter every 1,000 miles — or more often if your air filter indicator signals that your filter needs cleaning.)

Mounting your pre-cleaner is simple:

 Unlatch the rear cover and turn it so the air hom points up and latch 'er again.



Remove the 2 bottom screws
that help hold the horn to
the cover. Use 2 longer
screws that come in your kit
and attach the support
bracket.



 Install the pre-deaner on the air horn (down as far as possible) and clamp it snug.



And make a note for yourself on these replacement parts:



Unit, pre-cleaner, FSN 2940-122-4713 Bracket, horn support, FSN 2940-121-6179 Screw, bracket holding, FSN 5305-269-3211

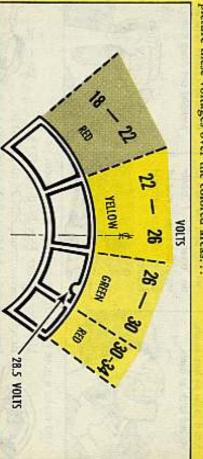




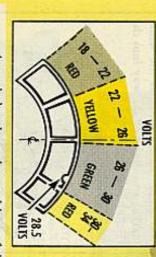
guilty party. A few quick checks can put you on the right track and you can cure the problem like a real pro. the generating system is on the fritz, it's wise to be certain the alternator is the Before yanking out your 60-amp Leece-Neville alternator when you suspect

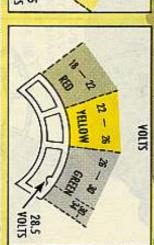
The trick is to use the Battery-Generator-Indicator that's on the dash as a volt-

picture these voltages over the colored areas... There are several types—pick out the one on your instrument panel and









A reminder about the workings of the Batt-Gen-Indicator . . .



IT SHOWS BATTERY NOT RUNNING BUT IGNITION'S ON ...



SHOWS GENERATOR SYSTEM OUTPUT RUNNING IT WHEN ENGINE'S VOLTAGE

NOW, FOR THE QUICK CHECKS,

人名司人人的名

that all electrical units like the heater, radio, lights, etc., are turned OFF. but don't start the engine. Make certain batteries. Turn ON the ignition switch 1St Check the condition of your



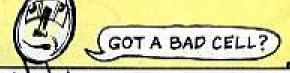
22-volts, means the batteries are weak, de



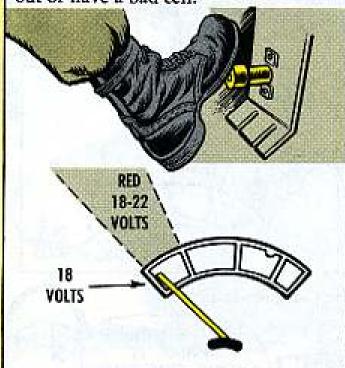
UNDER



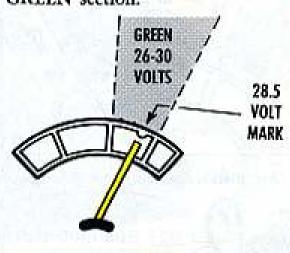
22 VOLTS



2nd CHECK . . . Crank the engine and watch the needle. If it drops (before engine starts) well into the RED, you've got battery trouble. They could be worn out or have a bad cell.



3rd CHECK . . . After engine starts, set the throttle so it'll run at high idle (about 1500 RPM). The charging ability of the batteries will affect how soon the indicator needle settles at a set voltage point. For a good-working charging system it should set around the 28.5 volt mark. That's about at the white marker two-thirds of the way into the GREEN section.

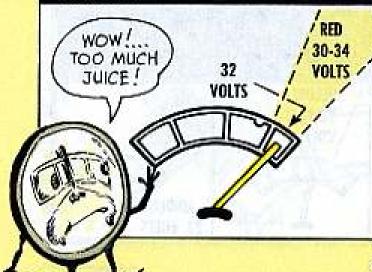


PROBLEM AREAS:

OVERCHARGING

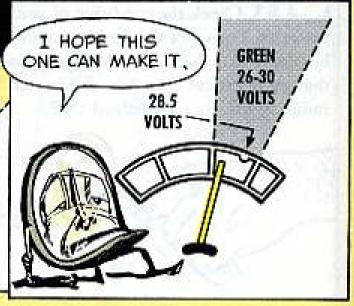
If the needle settles beyond the 28.5 volt mark

 — in the 30 to 34-volt area (some Batt-GenIndicators have this section in GREEN) — the
alternator is overcharging, or your batteries are
in a state of overcharge. Most likely the alternator's overcharging. This calls for an adjustment. . . .



UNDERCHARGING

 If the needle settles well below the 28.5 volt mark it means the system is not up to par and needs further checks, adjustment or a new alternator. . . .



CHARGING SYSTEM CHECKOUT:

This checkout should be made by an organizational mechanic—a guy familiar with the vehicle electrical system and the workings of the multimeter that's found in every No. 1 and No. 2 Organizational Common Tool Set.

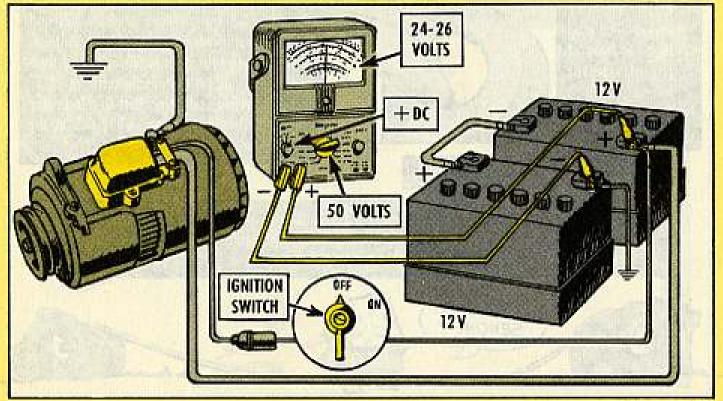
On a BATT-GEN-Indicator that shows overcharging, you can go directly to the alternator and make the adjustment. . . .

But when under-charging is indicated, first check out:

- 1. Condition of batteries.
- 2. Alternator belt tension.
- 3. Battery and alternator cable connections especially ground.



Battery Test — Set the multimeter on 50-volt range and + DC current. With the engine stopped, connect it across the batteries. The 50-volt DC-voltage scale should show from 24 to 26-volts. If it doesn't you'll have to get your batteries charged or get another set.

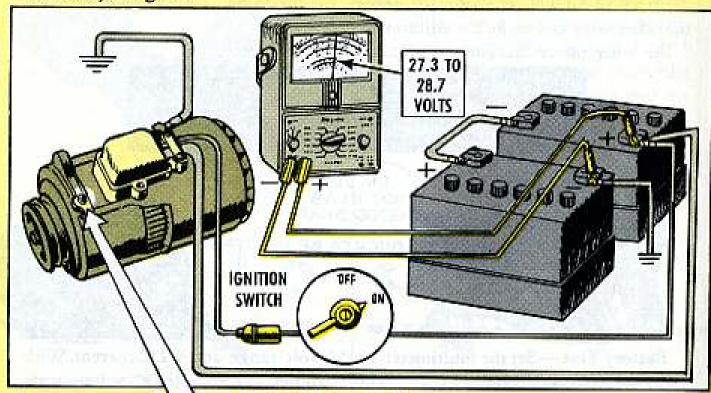




CHARGING TEST

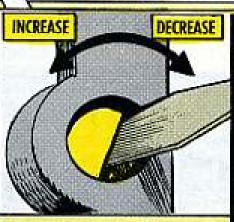
With good batteries and the multimeter hooked up across the batteries, start and run the engine at high idle (1500 RPM). When the engine runs smooth the multimeter needle should settle down between 27.3 to 28.7 volts.

If the multimeter needle doesn't fall within this voltage range the alternator needs adjusting. . . .



ALTERNATOR ADJUSTMENT

1. Remove the socket-head plug that's in front of the alternator housing with a hex L-type key wrench.



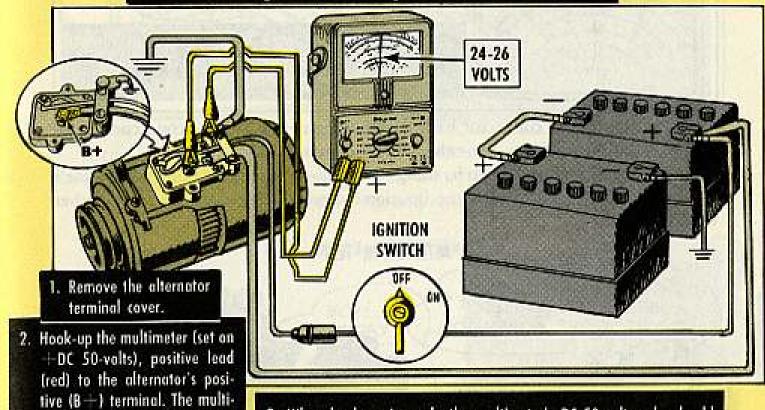
 While engine's running, insert a small screwdriver and turn the rheostat inside the alternator until the multimeter indicates 28.5-volts. Clockwise decreases and counter-clockwise increases the voltage. It's best to turn it up to 30-volts and then back off and let the needle settle at 28.5volts. When set, the Batt-Gen-Indicator needle should be at the white nub in the GRSEN.

- 3. If it adjusts OK replace the plug.
- 4. But if the alternator cannot be adjusted to 28.5-volts, you'll have to make further tests to see whether the battery voltage is getting to the alternator — it can't work if it isn't getting battery juice to start with.



BATTERY VOLTAGE AT ALTERNATOR TEST

Turn off the engine and leave the ignition switch OFF. Then . . .

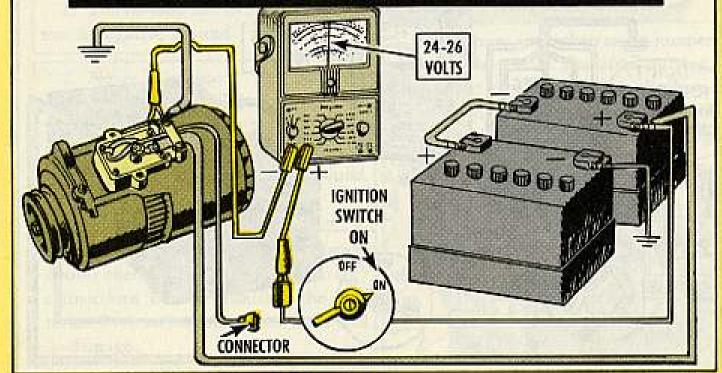


- When hook-up is made the multimeter's DC 50-volt scale should show full battery voltage (24 to 26-volts). If it doesn't, then there's an open circuit between the alternator and battery; it may be caused by loose connections or broken wiring.
- 4. Next, disconnect the rubber waterproof connector on the small wire leading to the ignition switch. Strip back the rubber on the switch side and connect the multimeter's positive (red) lead. Leave the multimeter's negative (black) lead connected to the alternator's ground post.

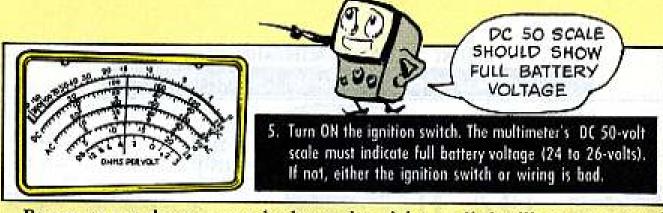
meter's negative (black) lead

goes to the alternator's ground

terminal.



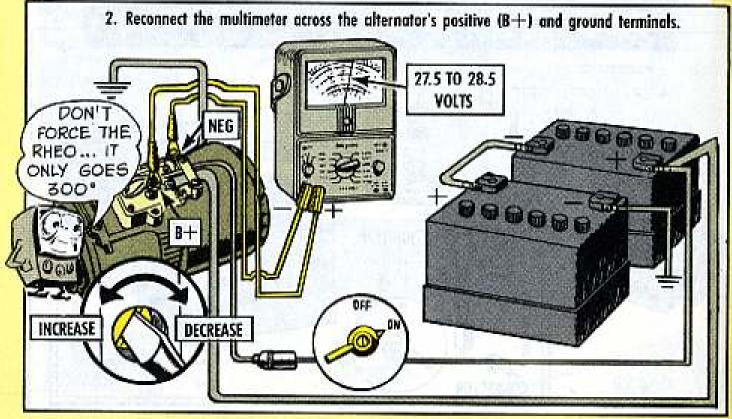


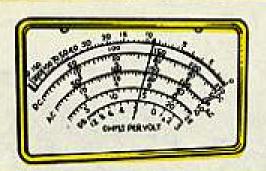


Be sure to put the connector back together right—a little silicone compound (FSN 6850-880-7616) on the rubber'll let it mate easily.

Before the alternator can do its thing, 24 to 26-volts must be at the alternator's positive (B+) terminal and at the ignition connection. No use going any further until it's there.



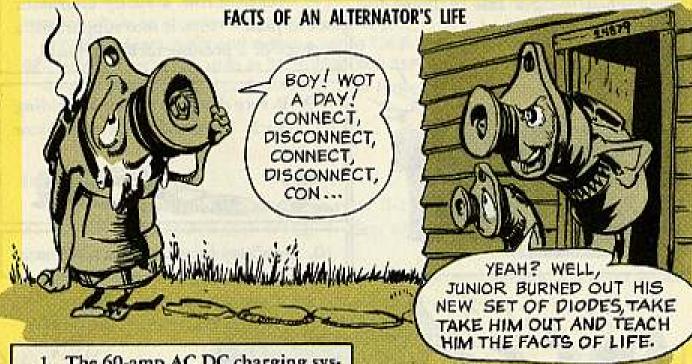




 Now adjust the alternator's internal rheostat until the multimeter's DC 50-volt scale shows 28.5-volts. Don't force the rheostat; its full turn is about 300 degrees. When you've adjusted to 28.5-volts, the Batt-Gen-Indicator needle should be two-thirds into the GREEN.

If you can't get the 28.5-volt adjustment the alternator is on the fritz and must be replaced. That's it . . .

And don't forget to replace the plug and terminal cover after adjusting.



- The 60-amp AC DC charging system is negative ground.
- Never disconnect the batteries while engine is running.
- When working on the electrical system, disconnect the battery ground cable.
- 4. Never reverse polarity—always double check (-) to (-) and (+) to (+) connections before installing the batteries. Even an instant reverse flash will do damage.

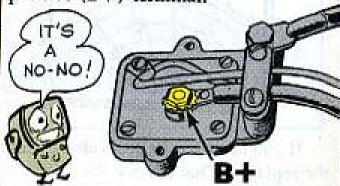
5. The same goes when using jumper cables to slave start. But after starting, remove the ground cable from both vehicles first, then remove the positive cable. This'll head off dangling flashing cables.



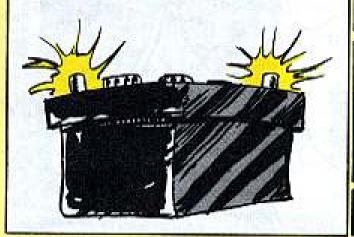




Never ground the alternator's positive (B+) terminal.



When using a fast charger, disconnect the battery cables.



 Never throw a faulty alternator out as junk — turn it into support for a recheck or a possible factory rebuild.

Before doing any electric welding on vehicle disconnect the alternator cables.



10. Don't try to polarize an alternator.



Once upon a time there was no repair or rebuild program for the Lecce-Neville 60-amp AC DC alternator but time has a way of making changes. So don't throw away faulty alternator's; turn 'em in. (see TB 750-981-1 (Jan 70) pgs 31 and 33).

Posts, camps and stations in CONUS, Alaska and Hawaii can now send their faulty alternators, regardless of condition, to the Leece-Neville factory for rebuild under a special deal worked out with the manufacturer. The details on this repair and rebuild program are covered in AMCPM-GPV-S message 10-5089 dated 7 Oct 1969, subject: Repair of 60 Amp Generator/Alternator, FSN 2920-909-2483. It was sent to all CONUS Army and Major Command Headquarters.

So far, this program has not been set up for overseas commands.





Dear Half-Mast,

The Maintenance Allocation Chart in TM 9-2320-209-20 says replacement of transfer case mounts is an organizational maintenance job.

But the cushians, bolts and nuts are not in TM 9-2320-209-20P w/Ch 1 & Ch 2 (Apr 69). In fact, they're not even in TM 9-2320-209-35P.

Another thing, the -20 TM doesn't tell what torque to give those mounting bolts and nuts.

Can you lend a hand?

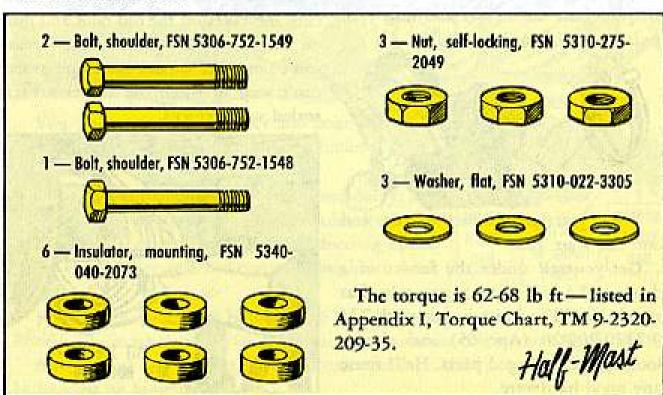
CW3 A. H. A.

Dear Mr. A. H. A.,

Those transfer mounting parts for your 2-1/2-ton trucks are listed on page 21 of TM 9-2520-246-35P w/Ch 1 (Sep 65), the TM for the transmission, transfer and power take-off.

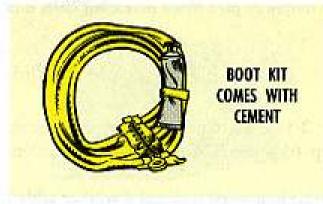
But there've been a couple of switches — an improved nut and a washer added to keep your transfer mounts from loosening so easily.

Here's the rundown:





Use your noggin—all the time when you dig into a CV—constant velocity—steering knuckle boot. It's no snap job. If you're shy only a machine clamp screw, get FSN 5305-752-1693. For just a plain clamp nut, use FSN 5310 707-1097.

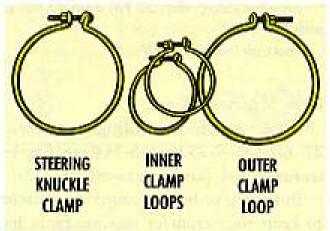


All the words in the world won't help if you bend or force the clamps, strip or bust the screws and nuts—or twist the CV boot into place.

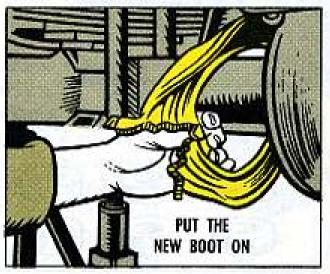


When you don't know the score, find out. See your 'TM.

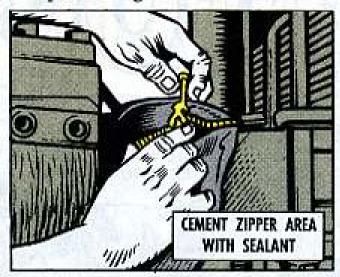
Get yourself under the fender of a deuce-and-a-half with a guy who has savvy. You'll find him in step with TM 9-2320-209-20 (Apr 65) and always looking for damaged parts. He'll reuse any good hardware.



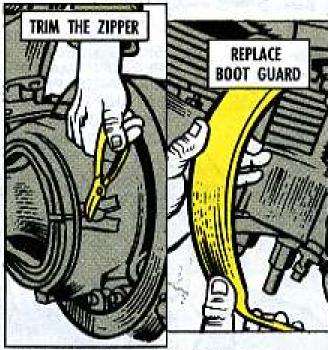
See how the man with know-how cuts and takes off the old boot and puts on the new one—inside out. Grease can't ooze out of the boot and water can't seep in when the zipper area is sealed with cement.



He'll be sure to aline the word "TOP" with the center of the steering knuckle upper sleeve and set the inner clamp into the groove made for it.



With a twist of the wrist the boot'll go right side out and the bigger clamp will be fitted snugly in, all around the steering knuckle groove. Wrap up by locking the zipper with fine wire, lopping off the excess zipper



and sealing the outside zipper area.

When the boot guard goes on, the job'll be done—but right!



You gotta bend, stoop, peer and poke to find all the drain holes on your wheeled vehicles. But it's all worth it.

The end result is stopping body panel decay, and this's achieved by keeping the drain holes open.

Check them often, especially after fording operations. That's when rust and corrosion begins to work in.

INSIDE BOTTOM DOOR RAIL PANEL

You can find the drain holes on the bottom door panels, the frames, the cab floor — places where water could naturally accumulate if it weren't for the drains.

Any kind of dirt can plug up the small openings. If they remain clogged you'll be bugged by bigger problems.



FOR QUICK INFO?



WORK IN THE LIBRARY AT HOME ... I USTA

stack up. IG), for example, here is how the pubs To bone up on the HueyCobra (AH-

19

AVSCOM Group/Class Series Category 221 — 221 — 221 -221 -20

Find your pub series and dig-dig dig. Pull by-the-book PM, regularly.

ALCO PARA

OH-13T OH-13S OH-13E, G, H Repair parts for all models — 0H-13E, G, H, S, T

Series

SIOUX

Group/Class (FIXED WING) Series 203 -Aircraft U-8 Seminol U-1A Otter OV-1 Mohawi U-6A Beaver 0-1 Bird Dog

Aircraft CH-21 Shawnee CH-37 Mojave UH-19 Chickasav OH-6A Cayuse OH-23 Rayen CH-34 Choctaw

Group / Class

210 IROQUOIS (HUEY) UH-10/H, and repair parts for AI-H MH-1C/M models — UH-1A, MH-1C/W F

CH-47B, CH-47C

478 and CH-47C

CH-47A, and repair parts for all models — CH-47A, CH-

CHINOOK

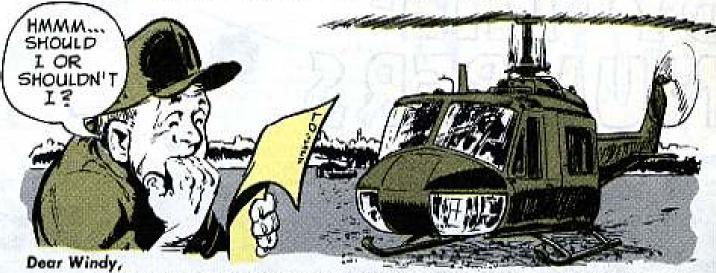
4, the index to technical publications. nance, eye a copy of DA Pamphlet 310-For all the pubs on aircraft mainte-

OH-58A Kiowa

AH-16 Huey Cobra

CH-54A Torhe

REPACK AT 600 ONLY



The lube chart in TM 55-1520-210-20 (May 69) shows that the couplings on main drive shaft, P/N 205-040-004, get the hand grease treatment every 600 hours . . . 100 hours on a P/N 204-040-010 shaft.

But when we take the short shaft out of our H model Huey for another reason do we repack it?

SP6 R. C.

Dear Specialist 6 R.C.,

Negative. If you take the shaft out for some purpose other than to lube it, you don't have to grease it.

Handle that baby with kid gloves, tho, to make sure it doesn't get damaged or contaminated with dirt.

SAVE THE BARRELS!

Cayuse and Kiowa hotshots—no itchy trigger fingers, please!

Never recycle the trigger to prevent interruption of firing by the burst limiter on your XM27E1 subsystem. The limiter allows a maximum of 3 seconds firing per burst to prevent the barrels from burning out.

Short bursts are recommended.

If a combat emergency requires firing a full complement of 2,000 rounds of ammo or a major part of the complement by continued recycling of the burst limiter, a minimum of 15 minutes cooling time is required before starting to fire the next complement.

If you must recycle the trigger in a combat emergency, write it up so that the armament types can give the barrels the big look in accordance with the poop in para 3-12b of TM 9-1005-298-12 (7 Aug 69).





When it comes to tracking your Hucy or HucyCobra tail-rotor blades to get rid of a high freq vibration, lay off using a grease marking pencil.

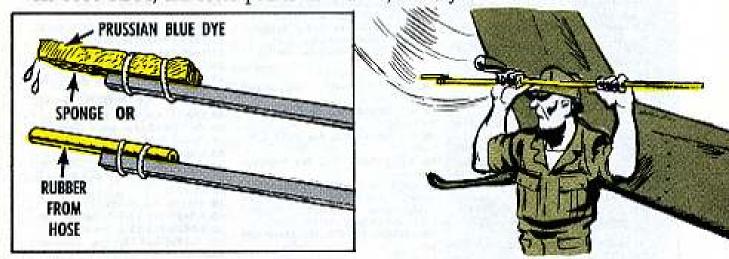
The pencil won't hack it because the near blade will usually knock the end off, or at least deform it, and keep you from getting an accurate mark. It'll take extra time and elbow grease to get the tracking done.

Instead, use a small piece of sponge rubber, 1/8 to 1/4 inch thick, on the end of a 1/2 by 1/2-in pine stick. Cover the sponge with prussian blue, or some other coloring, thinned with oil.

A small piece of soft black rubber from a hose also does an excellent job of marking the blades . . . no coloring needed.

Ask your favorite throttle jockey to crank up the bird.

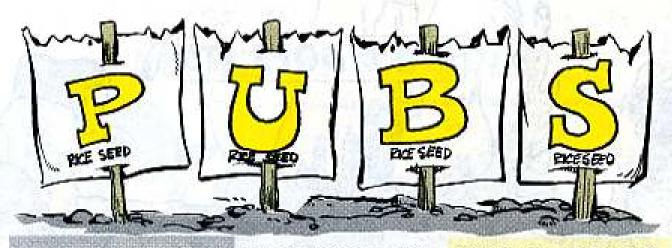
At 6600 RPM, tail-rotor pedals in neutral, make your move.



Rest the marker stick on the underside of the tail boom and slowly move it into the rotor, just far enough to touch the near blade, about 1 inch from the tip.

After engine shut-down, eye the rotor when it stops. Shorten the pitch change link of the marked blade and track the blades once more.

With a reliable marker, chances are you'll get the blades in track on the first try.



This is a selected list of recent pube of inferest to organizational mointenance personnel. This list is compiled from recent AG Distribution Centers Bolletins. For complete details see DA Pom 310-4 (Jun 69), and Ch 4 (Feb 70), TM's, Th's, etc.; DA For 310-6 (Jul 69), and Ch 3 (April 70), SC's and SM's; DA Pass 310-7 (Dec 69), MWO's and DA Pass 310-9 (May 69), COMSEC Pale.

TECHNICAL MANUALS

TM 3-4240-258-14, CJ, Feb Mask, CBR. MIZAT

TM 5-2410-209-12, C4, Mor Medium Tractors.

TM 5-2420-218-20P, Jan, Wheeled Tractor DED.

TM 5-2805-203-14, Dec Gas Eng & HP. TM 5-3431-213-14, Dec Inert Ges Walder

TM 5-3805-219-20P, Jan Looders, TM 5-3820-208-20P, Mar Rock Drill

figuip. TM 5-3895-332-12, Jan Pile Driving

Hommers. TM 5-4120-274-20P, Feb Air Condi-

tioners: Electric 9,000 BTU. TM 5-4120-307-15, Feb Air Cond

18,000 BTU. TM 5-4210-200-10, C4, Apr Fire Flabi-

ing Equip. TM 5-4310-214-25P, C2, Mar Air

Comp 15 CFM.

TM 5-4610-202-12, Jan Woter Purification Equip.

TM 5-4920-200-25P, Feb Gas Turbine Engines.

TM 5-6115-214-10, C6, Mar Operator, 45 KW, 400 HZ.

TM 5-6115-214-25P, C2, Mor Gen 45 KW, 400 HZ.

TM 5-6115-312-20P, Mar Gen 5 KW

60 HZ, 120, 208-V. TM 5-6115-329-15, C3, Mar Gen 5 KW, 400 HZ.

TM 5-6115-332-12, C2, Mar Gen Seli 5 KW, 60 HZ.

TM 5-6115-240-15, C7, Mor Can 45

KW, 400 HZ. TM 5-6115-240-25P, C2, Mor Gener-

alor Sets, Eng Drives 45 KW, 400 HZ. TM 5-6115-425-12, C2, Mar Gen 60 KW.

TM 5-6115-450-15, C1, Mor Gen 10 KW, 400 HZ.

TM 5-665-202-15, CS, Mor Lond Mine Det Equip.

TM 5-6665-203-12, Dec Land Mine Detect Equip.

TM 9-1000-205-12, C5, Mar 106-MM Recoilless Ride.

TM 9-1425-470-12, Mar TOW. TM 9-2320-218-20, Cl. Jon M151. TM 9-2320-218-20P, C2, Jan M151. TM 10-269, C7, Mar Canvas and webbing repair.

TM 10-500-12, C1, Mar Rigging Typical Supply Loads,

TM 10-500-79, Jan Rigging Airfield Repoir Kit.

TM 10-3930-603-12, C1, Apr Med Wheel Tractor.

TM 10-3930-611-12, Feb Elec Forklift, TM 10-3930-619-12, Jan 2000-lb MHE 207.

TM 10-4320-201-25P, C1, Apr Pelroleum Distr Equip.

TM 10-4500-200-13, Dec Heaters, Space, Portable, Immersion.

TM 10-4520-201-20, C3, Mar Heaters: 250,000 BTU.

TM 10-4520-201-20P, Jon Heaters: 250,000 BTU.

TM 10-4930-204-15, C2, Apr Pel-

roleum Distr Equip. TM 10-0340-207-14, CI, Apr Tents TM 10-8340-219-24P, Feb Mainten-

once Tents. TM 11-5410-214-15P, Jan Elec Equip

Shelter 5-250/G. TM 11-6425-1634-15, Jan Radio Test

Set AM/URM-101B. TM 11-6625-1703-15, Feb Oscillo-

scope AN/USM-281A. TM 11-6720-248-12, Jan. Comera

KS-10A4. TM 55-1510-204-CL/S, Jan QY-1

TM 55-1510-204-20PMD/1, Feb OV-1. TM 55-1510-204-20PMI/1 Feb OV-1D. TM 55-1510-209-CL/1, Dec U-21.

TM 55-1510-209-CL/4 Dec U-21.

TM 55-1520-221-PMP, Jon AH-1G.

TM 9-1015-215-65C, Jan 4.2-In Mortar.

TM 9-2320-242-ESC, Feb M 561 1 1/4 ion truck.

TM 9-2320-240-ESC, Feb M813 5-ton freek.

TM 11-5815-206 ESC, Feb Teletypewriters.

TM 11-5815-238-ESC, Feb Teletypewriters AN/GGC-3, AN/GGC-3A Teletypewriter TT-76/OGC, TT-76A/ GGC, TT-768/GGC, TT-76C/GGC,

TM 11-5855-217-ESC, Feb Searchlight \$44.

MODIFICATION WORK ORDERS

9-1190-233-20/4, Mar Penhing. 9-1240-293-40/3, Mar M107, M110 Arty

9-1240-293-40/3, Mar Scope Mount M137

9-1240-324-30/1, Apr How Towed 105-MM, M102.

9-1240-324-30/2, Apr How Towed 105-MM, M102.

9-1440-301-40/35, Mar Sergeant, 9-1450-500-30/9, Apr Hawk.

9-2300-224-30/11, C2, Apr M113 Corrier.

9-2300-224-30/24, C1, Apr M577

Corrier. 9-2300-224-30/26, C1, Apr M577 Corrier.

9-2300-224-30/27, C1, Apr M577 Carrier.

9-2300-391-40, Mer M107, M110

Arry; M.57E. 9-2330-212-30/11, Mar Nike-Hers.

9-2350-224-30/2, Mar M48A3 Tank, 9-2350-244-20/8, Apr M114/M114A1 axle shift retainer kit.

9-2350-244-20/10. Mor M 114/ MI14A1, grease fillings.

9-2350-244-30/12, Apr M114/ MITAAT halch cover latch.

9-4935-305-40/6, Mar Sergeant.

11-5610-214-45/12, Apr TSEC/KW-20 (

11-5810-214-45/13. Mar TSEC/KW-26C.

11-5810-225-35/3, Mar TSEC/KY-3.

11-5810-244-45/4, Mor TSEC/KY-28.

11-5810-245-45/2, Mar TSEC/KY-38,

11-5810-245-45/3, Apr TSEC/KY-38.

11-5810-245-45/4, Mar TSEC/KY-38.

55-1510-202-30/7, Mar D-1.

55-1520-210-30/13, CI, Mar UH-1D.

55-1520-210-40/3, Apr OH-10.

55-1520-211-30/30, CI, Mar UH-1C. 55-1520-214-30/30, Mar OH-6.

55-1520-221-20/9, Apr AH-10.

55-1520-221-30/17, C1, Mar AH-1G. 55-1520-227-30/22, Mar CH-47 B.C.

MISCELLANEOUS

AR 750-19, Apr Maint Floats. DA Cir 750-33, Apr Equip Operationally Ready Standards.

DA Lebel 80, Jan Collibration Form. DA Lebel 132 Warning --- Do Not

Start while Radio Is an (Prescribed by 58 11-624).

FM 44-100, Feb Vulcon.

LO-5-2420-213-12-1-3, Dec Scropers. LO 5-2420-213-12-2, Dec Scrapers.

LO 5-3895-334-12, Dec Bituminous Heaters.

TB 55-1500-205-20/1, Apr OH-13. TB 55-1500-211-25, Mar All Aircroft Tost File.

TB 55-1510-204-30/6, Mar OY-1.

TB 35-1510-204-30/7, C1, Apr OV-1. TB 55-1520-227-20/9, Mar CH-47.

TB 55-2620-202-15, Mar All Aircraft Tire Repair and Retreading.



Mission is Possible (2028)



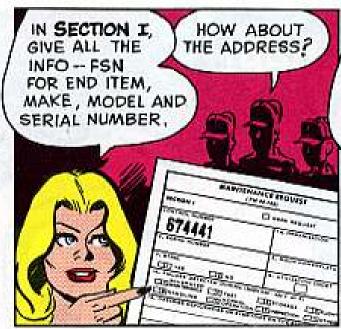






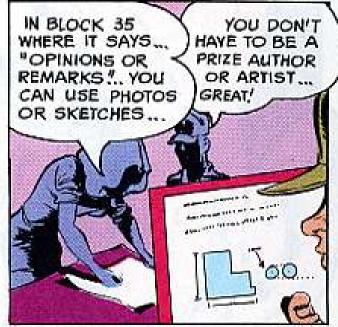






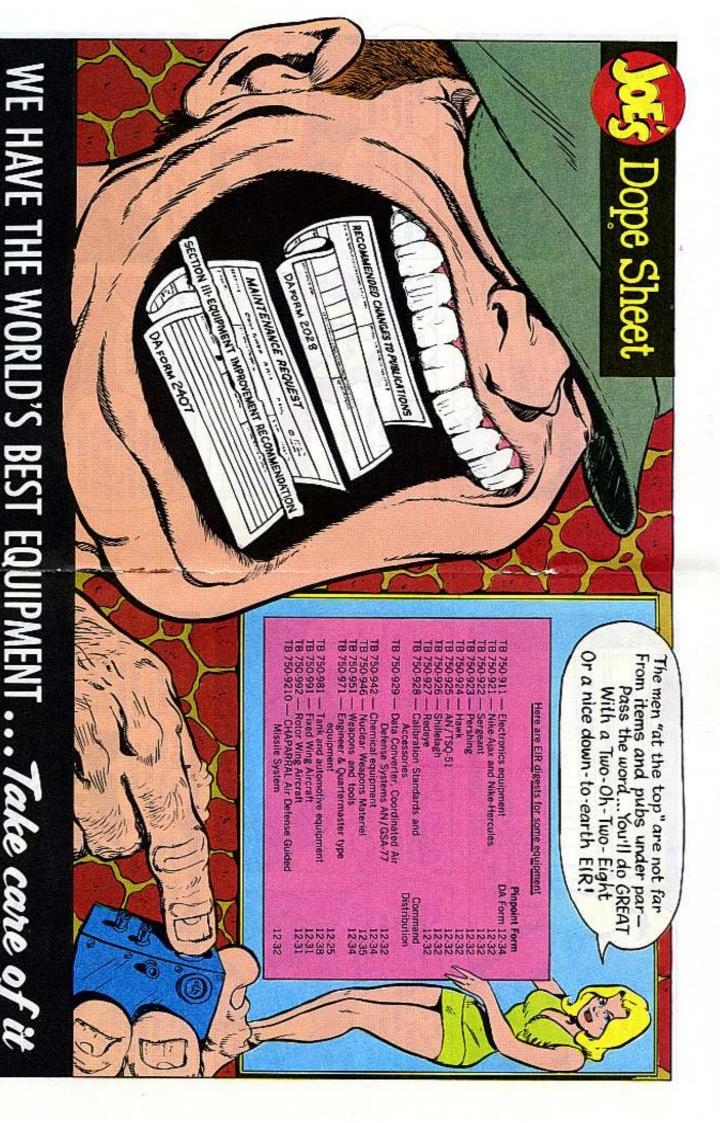










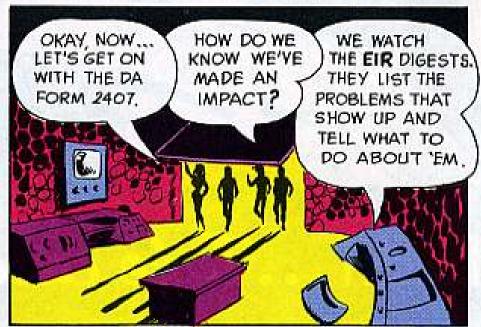


















The following sequences are simulated and the time frame compressed to show how it works









SO, THEY ALERT THE FIELD VIA THE DIGEST, TELLING THE USERS WHAT THEY CAN DO TO TAKE CARE OF THE PROBLEM FOR NOW.!!

MEANWHILE, THEY GO BACK TO THE
DESIGN AND MANUFACTURE PEOPLE —
THEY MAKE CHANGES, LIKE A MODIFICATION,
OR DESIGN A NEW OR IMPROVED ITEM
TO ISSUE IN PLACE OF THE OLD ONE!







AH, WELLANOTHER
SUCCESSFUL
MISSION,
CONNIE...ERHOW ABOUT A
SODA DOWN
AT THE NCO
CLUB?



SORRY, NO TIME,

THIS WHOLE PAGE

IN FIVE SECONDS

WILL GELF-DESTRUCT

YOU'RE KIDDING ... HEY! WAIT ... HEY!





The night has a thousand - you've got only two.

Old Cyclops had only one, so he knew that he had to take care of it.

By now you should know that the subject is eyes—the orbs you use to ogle, the peepers you use to peep. And their helpers.

Good as your eyes are, they sometimes need help, especially for seeing long distance or in a blackout, for seeing little dangers before they turn into big ones or for drawing a bead on a target.

That's where optics come into the picture.

Whether they're used for observing, sighting, range-finding or recording an image on film, these optic helpers have one thing in common. They're almost always made of glass.

Each lens, prism or reflector comes to you clean, clear, curvaccous and without a scratch. Your job is to keep it that way.

It must be kept free of moisture, heat, dust, grime, grease—free of even the film of oil you leave as a fingerprint any time you lay a finger down.

These optics can't take any jars, jams, slams or bams. Tote 'em or touch 'em with TLC (tender loving care).





DUST WITH BREATH OR BRUSH



To keep from just shifting dust about on the lens surface, rap the handle against a hard surface now and then to shake those mini-sized gravel free.



After a cleanup job, wash the brush in ethyl alcohol. When it's real grimy, push the brush handle through a cork stopper and soak its hair to free the grime—but dry it before use again on a lens.

If the weather's not chilly, a whiff of your own hot breath is a good dust remover (though it may fog a lens for a few seconds). If a light breath won't budge the dust, keep your hands and handkerchief away.



Dust can grind or scratch a lensand the danger doubles for the coated type. So lift dust off with a light touch of an artist's camel-hair brush.









FOR DE-GREASING

Just a little dab of grease - even a greasy fingerprint -can do your lens in. To clean off a grease or oil smudge, use optical lens liquid cleaning compound, and lens tissue paper.







Then wipe the cleaner away with a double-falded tissue. It's folded twice so no oil from your finger tip can soak through to the lens. Rub in circles from the center outward. And change tissue any time there's a sign of grime on it. One grimy swipe can kill the lens.





In a pinch, ethyl alcohol can sub for cleaning compound — if you're careful. But easy on ol' Alky. On some older lenses if he sneaks over the edge he can eat away their cement.

Breath can help to clean up finger smudges—if they're light and the weather's not too cool.

Take special care if the lens has a magnesium fluoride coating (that's the coating that gives the lens its bluish tint and cuts down light loss from reflections).

Don't let any sideshow barker sell you any extra-strength polishing liquids, pastes or silicones for cleaning lenses. Some may clean but they'll also fog or scratch while taking away grime.



You may run across a purple-tinted lens tissue in the field. Don't use it for lenses! It's silicone coated and can damage optics. Use it only for your plain ol' glass.



KEEP 'EM COVERED

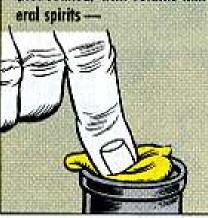
The best lens PM is to keep it covered when not in use. That stops a lot of trouble in its tracks.

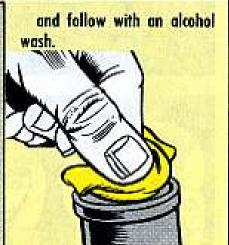


If by mischance paint hits a lens, clean it before the paint hardens.



Use lens paper dampened (not soaked) with volatile mineral spirits -





OTHER KILLERS

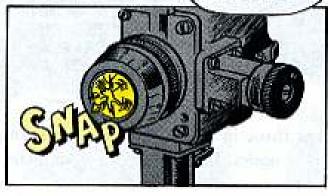


A blast of water, steam or air on an uncovered lens can kill it by forcing moisture into its innards or grime against its polished face. A scratched lens is scratched more ways than one.

And even though its job is to transmit light, too much light can kill a lens. A lens focuses light rays and builds up heat that can soften its cement - and crack the reticles (measuring lines) in sighting equipment. So never point a lens direct at the sun without a shade or filter.



LEAVE ME OUT IN THE COLD. IT'S BETTER'N SUDDEN TEMPERATURE CHANGES.



LENSES IN A DEEPFREEZE

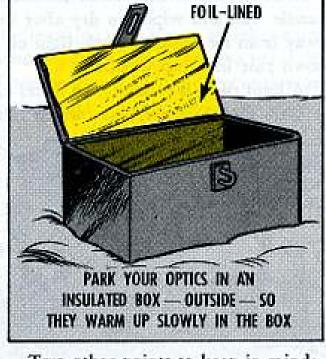
If you're using lenses in a cold country, your major hazard is not the cold—it's the sudden temperature change when you take 'em in out of the cold.

Cold glass in a warm room collects condensation. It even collects inside an instrument if warm air can reach it. This can rust metal parts of instruments - frost up a lens, or even crack it, when it's taken back into the cold.

Warm up a frozen instrument too fast by a hot stove and expansion of metal parts can crack it apart at the seams.

One way to dodge such damage is to box optical equipment outside when you go in. You can use a box with a tight-fitted lid and lined with a continuous piece of heat-conducting material, like aluminum foil.

Park your optics in this box—outside—away from sudden temperature changes. Then take 'em inside in the box and they'll warm up slow without frosting.



Two other points to keep in mind:

Don't try using your own hot breath to clean a lens in freezing weather. Use a bit of alcohol, instead, but use with care. Moisture in your breath will fog the lens—maybe frost it. Fact is, better turn your head sidewise when you look at a lens in the cold.

Check equipment lube instructions for the right cold-weather lubricant. Lube that pours sluggish in the cold can turn moving parts sluggish or even bring 'em to a standstill in extreme cold.





When it's frying-pan hot, but dry, there are few big problems with optical equipment. (Hold down on the oil, though—it'll just collect sand and dust).

But add humidity to the recipe and you've got trouble.

Sweat flows freely and drips and squishes. Sweat's got acid, and acid brings corrosion and rust if it gets on metal parts.



So keep your sweaty hands off those instruments except when you need to handle 'em, and wipe 'em dry after use—making sure you keep that wiper away from the lenses. A little light oil on bare metal, screws and pins can cut down rust in damp weather.

A light swab is enough on a metal surface. With high humidity, too, watch fungi (mold) in every damp spot.





NO FSN ... IT'S STRICTLY A DO-IT- YOURSELF PROJECT-HERE'S HOW:

DRY LOCKER

Drill three 1-in hales 6 to 8 inches from top and bottom of the cabinet. Drill 'em on either the front or back side.

OK . . . now build two shelves, each with eight 1-in holes, and put 'em in the cabinet so the cabinet is "cut" in thirds.

The deal that turns the cabinet into a drylocker is a light bulb that you put on the bottom of the cabinet. A 25-watt bulb should do the trick, but you may need a bigger one in the tropics. Put a shield, like aluminum foil, around the bulb as protection against a possible fire.

The drylocker works like so: Air comes through the holes at the bottom of the cabinet. It is warmed as it passes the bulb . . . and takes the dampness with it on out the holes at the top. 'Course, you don't want to let heat build up in the cabinet 'cause it might damage the instruments and melt the lubes.

HANDLE WITH CARE

Careful all the way, though, when you're taking optical gear off other equipment to stow it in a dry locker. Rough handling can kill it before you get it dry. And check your MAC (maintenance allocation chart) before dismounting any equipment. You may need help from a higher level—like DS—or special tools to do it.

If you're moving cross-country on rough terrain where optical gear is not needed, you can guard against damage by putting it in carrying cases or in shielded stowage. Some guys tote real valuable sights in their laps as they ride



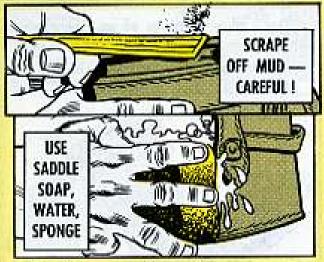
DOUBLE DUTY DRYER

Fact is, if you keep the heat down and build 'er big enough, a dry locker can also be used to take the dampness out of leather instrument carrying cases.

But watch that heat. Overheated leather may grow brittle and crack.

Remember to clean those carrying cases now and then. Use a sliver of wood to clean corners—a knife or glass may cut the leather.





Wash away grime with a sponge and saddle soap. Rinse at least twice with warm water, and wipe with a clean cloth.

Dry in the shade or your warm dry locker. Sun and sweltering heat are hard on leather.

After drying, put back the washedout oil. Moisten a cloth with neat's-foot oil and rub-wipe-rub until the leather shines.





DON'TS

Don't allow grease or oil on rubber eyeshields . . . and don't use volatile mineral spirits or dry cleaning solvent to remove it.



Don't handle rubber eyeshields rough in the cold. Cold rubber gets brittle and breaks in extreme cold.



DO'S

Do clean the eyeshields with warm soapy water, rinse dry . . . then dust 'em lightly with talc.



Do handle those eyeshields with care when the mercury dives below zero.

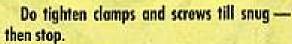


Do turn knobs easy — up to the marked limits. Use no more force than needed.





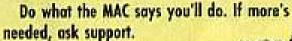
Don't tighten clamps or screws enough to foul the threads.







Don't take anything apart just to see why







Don't let binoculars, cameras or instruments

Do adjust straps, tie down or stow in cases or boxes.





Don't set up a tripod spraddle-legged.

Do spread legs evenly on the level. On slopes, put two legs downhill with feet in the ground. Keep extension clamps tight.







YOUR HANDS, EYES
AND KNOW-HOW ARE
MOST IMPORTANT IN
KEEPING THOSE OPTICAL
HELPERS ON THE JOB,
BUT SOME CLEANING
AND CARE ITEMS ARE
NEEDED, TOO, HERE'S
A LIST THAT MAY
BE USEFUL:

CLEANING AND CARE ITEMS

Cleaning compound, optical lens, FSN 6850-227-1887, 1 qt;



Alcohol, denatured, FSN 6810-201-0906, 1 pt; and



Talc, technical, FSN 6810-270-9989, 1-lb can all listed in Fed Cat C6800-IL (1 Jan 70).



Brush, artist's, camel hair, FSN 8020-264-3883;

Thinner, paint, mineral spirits, FSN 8010-290-4079, 1at can; and



Neat's -foot oil, FSN 8030-244-1031, 1-qt can; or FSN 8030-244-1033, 1-gal can all listed in Fed Cat C8000-IL-A (Oct 69).



Paper, lens, FSN 6640-393-2090, 100 sheets 3 x 5-in, FSN 6640-597-6745, 50 sheets 4 x 6-in, and FSN 6640-559-1385, 100 sheets 7 x 11-in — all listed in Fed Cat C6630/40-IL (1 Oct 68).



Sponge, cellulose, FSN 7920-240-2555, 13/4 x 35/8 x 53/4-in; and



Soap, saddle, FSN 7930-170-5467, 1-lb can — both listed in Fed Cat C7900-IL-A (1 Dec 69).



SOME SPECIAL CASES

Some instruments—like the M115 panoramic telescope, M137 telescope mount and M1 infinity collimator—are hermetically sealed.

These should never have moisture inside. If there's water inside 'em, they've got to be purged and charged with dry nitrogen.

Other instruments without nitrogen valves—like the M116 or M116C elbow telescopes—should be dried out if there's condensation moisture in 'em.

Expansion and contraction of optical elements in range finders keeps putting the coincidence reticle out of adjustment as the temperature changes. Adjust it often.

When binoculars and removable periscopes are supplied with protective cases, keep 'em there except when they're needed for immediate use.



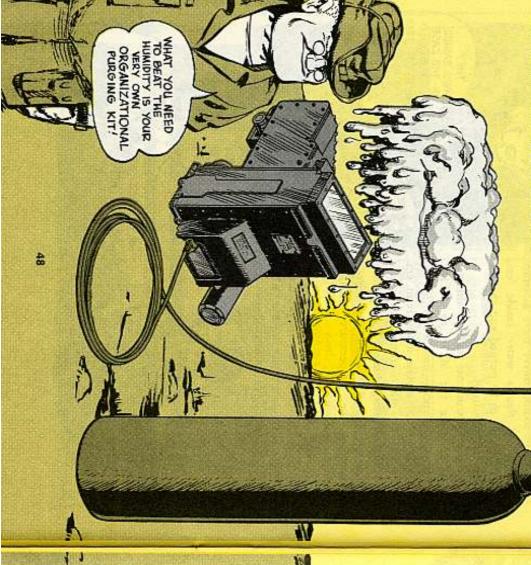




PURGE

"It's not the heat, it's the humidity" is an old saying that still fits around a lot of places these days. It's this same old humidity that causes the condensation which clouds up your fire-control instruments.

While you can't do anything about the humidity, you sure can do something about clearing up your own eyeball operations. Available for the asking is your very own organizational maintenance type purging kit.

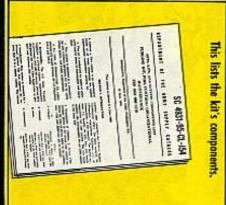


YOURSELF

Everything you need to know about this kit is in 2 publications:

It gives step-by-step instructions for each collimator, telescope, telescope mount, periscope, image projector, range finder and infinity sight capable of being nitrogen purged and charged.







Eventually, the current nitrogen filling regulator FSN 1240-558-0922 and adapter FSN 4931-508-5453 will be exhausted to a new regulator (to include the adapter) under FSN 6685-724-9744.

Since none of the TOE's have this purging kit as yet, you'll have to use the organizational mission spelled out in para 1 of your TOE as your reason for needing the kit. Send a letter request through command channels for an emergency authorization with the following info:

Line Item Number Nomendature Equipment requirement Personnel requirement

(the temporary LIN is Z50585)
(given by SC 4931-95-CL-J54)
(TM 750-116, para 2, requires purging at least every 90 days)
(your own organizational maintenance personnel are capable of operating and maintaining this kit)





the components you work with most of the time. and XM43 Conduct of Fire Trainers, It's only natural . . . since the COFT contains Let somebody mention Shillelagh and first thing you think of are those XM41

mounted on your tank's turret. So poor ICU maintenance means more down time —and less training—for all you Shillelagh sluggers And the component requiring the most care is the Instructor Control Unit

WATCH THE PAPER LAMP

catch the light before it disappears. during the firing cycle, every gunnery PAPER indicator on the ICU front instructor needs a third eye cocked to panel. Since this lamp will only light ing short is to ignore the REMOVE For instance, a sure way to cut train-

when the light says so, the reel jamsthe power's turned off. Leads to all kinds of possibilities: burned out motor, but the motor drives on and on . . . until If you don't unload the take-up reel



stripped drive gears, bent drive motor

cycle. Then you won't have to watch recorder is operating during a firing time the power is on; not just when the the REMOVE PAPER lamp to light any 926-3 (1 Jul 69), it'll be possible for applies the change in para 6 of TB 750at the same time. the recorder tracings and paper light But once your support maintenance

HOLD THAT RESE

gotten operating tip to help keep you on target. front panel, here's a sometimes for-As long as you're watching the ICU

- Wait till the missile subsystem completes its recyding before you hit that RESET light
- 2. Hold that button in until the MISS DISTANCE cross-pointers come to a complete stop.

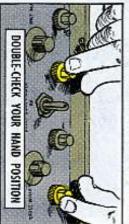


465-12 (Sep 69) has it in writing. Table 2-13, page 2-19 of TM 9-6920-



recorder. Reaching blindly around the time you put a new roll of paper in the knobs for adjusting the stylus posidiscover you grabbed the wrong set of barrassing . . . particularly when you ICU's open cover can sometimes be em-You also want to be very careful each

knobs-since all 4 of them look and positions before actually turning any It's smart to double-check your hand



out of adjustment. And then the recorder unit has to go back to maintethrow either of the gain potentiometers nance support to reset them. feel alike. Just one wrong turn can

a different "feel." and "hexhead" locknut (FSN 5355-535-3590) that gives the 2 pot controls nut on the gain pots with a bushing Jul 69) replaces the "knurled" lock-The fix in para 7 of TB 750-926-3 (1

COUNTER-CLOCKWISE? CORRECT!

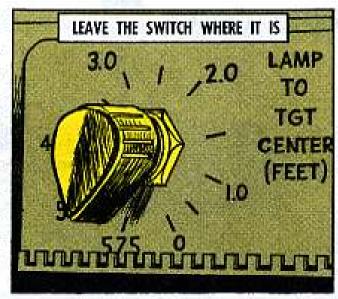
open. In case you didn't realize, that Wait one while you've got the ICU



8

Lamp-to-Target-Center adjustment control knob, next to the recorder housing, is set by organizational maintenance. So leave it in the extreme counterclockwise position—unless you plan to use it for a target vehicle other than the M551 Sheridan or M60A1E2 tanks.

Be sure the ICU cover is closed during a COFT self test. Otherwise, the sun, or any other bright light, may hit the cards inside the ICU. And this will cause a "no-go" on the COFT.



SHILLELAGH'S COFT NEEDS...

SMOOTH SLIDING

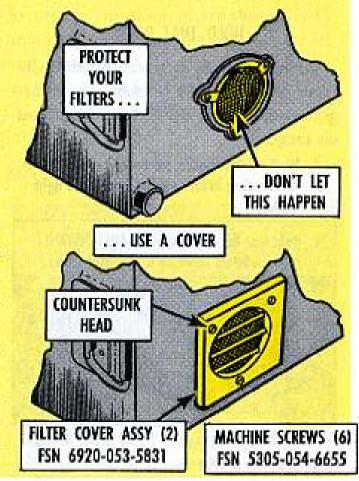


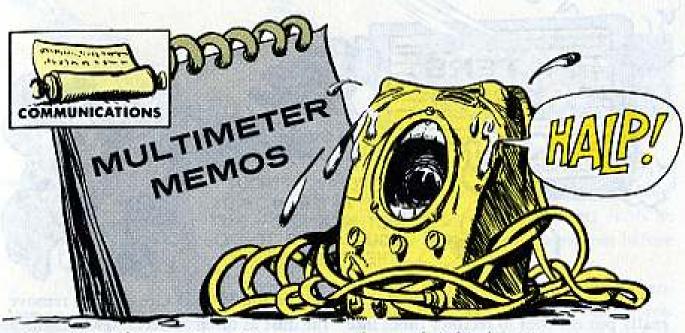
Loading the XM41 or XM43 Conduct of Fire Trainer onto your Shillelagh missile firing tank can be pretty rough on those exposed air filters at the bottom of the Instructor Control Unit.

That tank's hide is just too tough for the unprotected filters to slide by without knocking the heads off the retaining clip screws or gouging into the filters themselves.

But a cover like the one used with the inlet air filters on the Power Control Unit of the XM42 target assembly is perfect protection.

All you need are 2 each filter cover assemblies . . . FSN 6920-253-5831 (11603781) . . . and 6 each machine screws . . . FSN 5305-765-4352 (MS-51959-31) . . . to fasten down the covers.

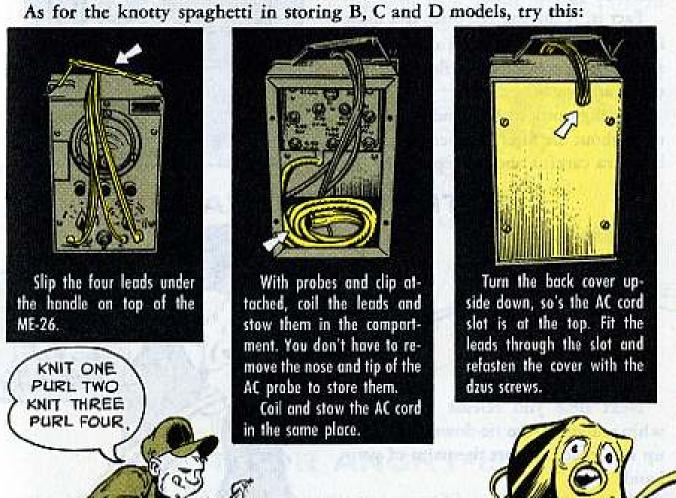




Your ME-26B, C or D multimeter screwed up and tied in knots? Try some untangling.

If the heads of the mounting screws (which hold the plug to the barrel) are too big to fit the slots of the coax adapter, use MS35275-212 type screws, which you get with FSN 5305-945-0505. They fit the adapter slots no sweat.

The screw problem, incidentally, comes up with the ME-26D.



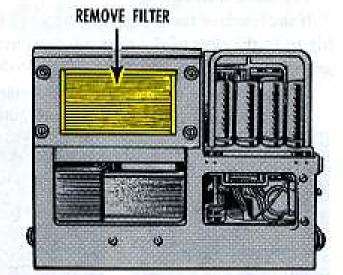


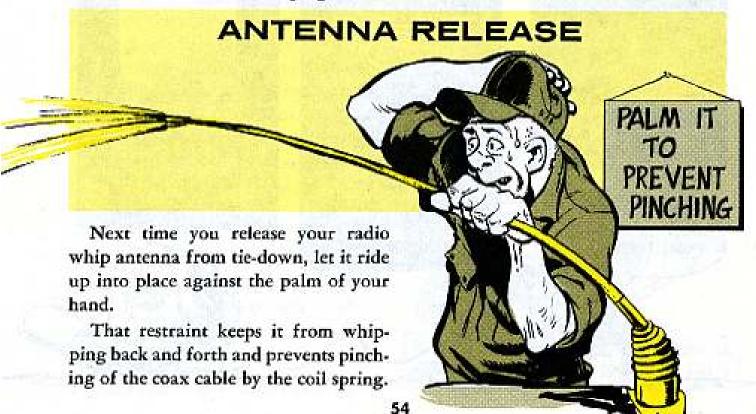
Heat in garden spots like SEA can really put the cool to rectifier tubes like the V1 and V2 type 836's in the PP-685/TRC power supply.

So, to keep the tubes from failing and putting your AN/TRC-24 radio set out of business, remove the air filter from the back of the PP-685.

Fact is, removing the filter is a must in hot and humid areas. Taking it out allows more cooling air to flow over the tubes and such.

One big caution: Dirt and dust build up without the filter, so operators gotta be extra careful about keeping the inside of the PP-685 clean. Like, remove the dust as often as necessary . . . which may be often in hot, dusty, humid areas.







KIT FOR ANGRY-19

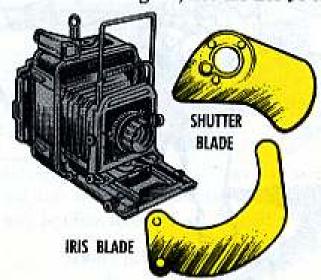
Looking for an installation kit that'll put your AN/GRC-19 set in a M715 1-1/4 ton truck? You can get it with FSN 5820-937-9847. The FSN didn't make it into SB 11-131, Vehicular Radio Sets and Authorized Installations.

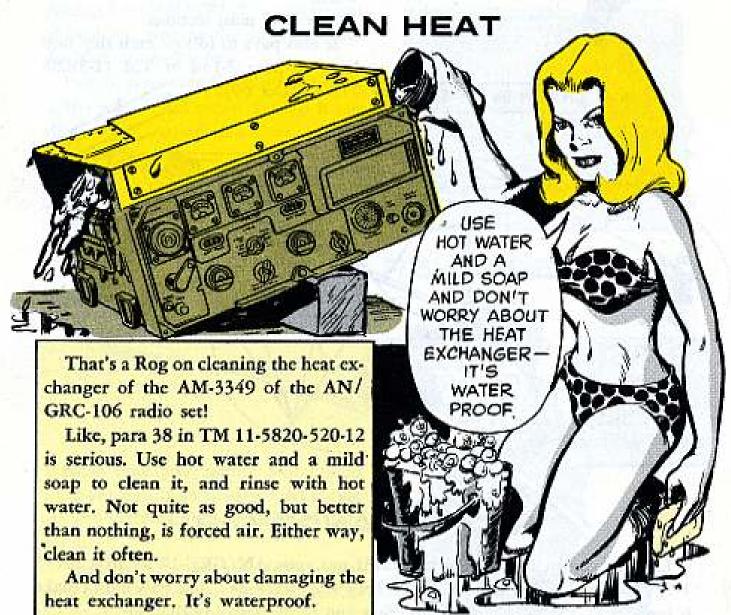
CAMERA FLASHES

Now hold up, you organization camera repair types. There's not much point in diggin' into the innards of that Graflex KE-12 (2) still-picture camera without the proper test equipment.

If the ailment's in the electrical circuitry, the KE-12 (2) should be routed to support for fixin'.

You'd be mighty smart not to touch the shutter and iris blades under any circumstances. Acid from human fingers can corrode the blades and louse 'em up. Incidentally, you need to use BA-202 batteries in flashguns, not the BA-30's.





PULL THE PLUG



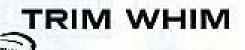


The dust cover of your TT-76/GGC teletypewriter can dust off the copy light plug (P12), jack (J12) and cable quick-like if you forget to pull the plug before removing the cover.

So pull it.

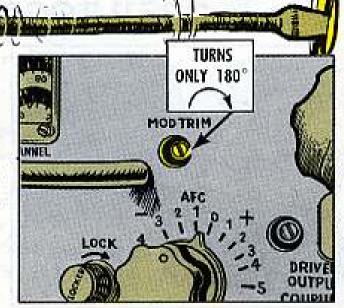
For a permanent reminder, latch on to some 1-in wide pressure sensitive tape and paste it on the cover top with this word: "CAUTION—DISCON-NECT COPY LIGHT PLUG TO RE-MOVE COVER."

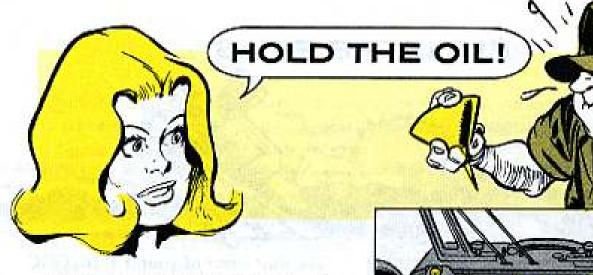
Your support can get the tape with FSN 8135-530-5514 (60-yd roll). It's in SC 8135-IL-A (Jan 70).



Half a circle. That's all the MOD TRIM screw on your T-302 transmitter turns.

Like, 180 degrees. Putting the muscle to it when you get resistance will zap the gear teeth. Stripped, that is.



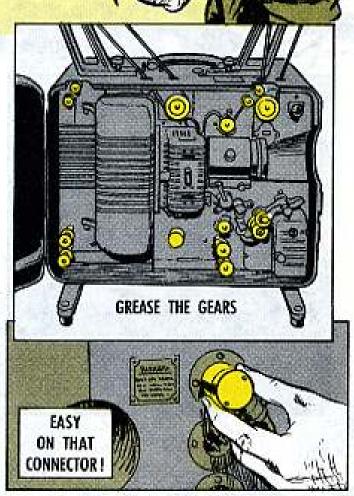


Oil is beautiful in its place, but that place is not the gears and bearings of the AN/PFP-1 projector set.

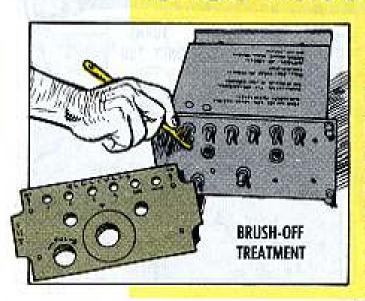
Gears and bearings of the PFP-1 get either GAA or GL grease, like the TM says. Lubing 'em with oil can burn out the gears and whatall.

You use oil on the points spelled out in Fig 29, page 56, of TM 11-6730-208-10. Switch to grease for other points.

A PM reminder on the PFP-1: Remove and connect the cables of the set by putting 'cm on and off while holding the connector. Don't yank 'em out by the cable if you wanna prevent cable or connector damage.



C-1611 TOGGLE SAVER



Softly is the way you scrape dust and dirt from around the toggle switches on your C-1611()/AIC intercom set control.

Best way to do it is with a soft bristled brush. For best cleaning take the plastic panel off the face of the control. You can get around the toggles better.

A stiff brush or rough handling can damage the switch and put the control down.



It takes an off-hook security lamp to watchdog the accidental transmission of sensitive info over your telephone set.

You can requisition the lamp for the TA-312/PT or TA-43/PT telephone set by using FSN 5805-782-9210. This stock number replaces FSN 5805-789-3843 in the Army Master Data File.

You'll also find it listed on Page 87 of Ch 5 to SC 5805-IL (Jul 67).

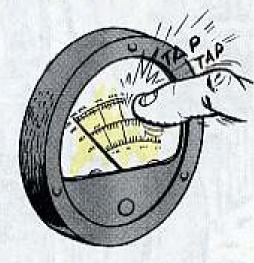
This'll give you the entire assembly you need for the installation.



One thing that won't get it loose is tapping the meter glass with a tool! More'n likely, you'll end up breaking the glass . . . or knocking it loose so's it'll fall against the meter.

If the needle sticks, tap the glass gently with your finger. Get your support to check it out if that doesn't work.

And, uh, if your meter "glass" is plastic and the needle sticks to it, you may have to apply some anti-static compound to the window. FSN 6850-882-6690 gets you a 3 1/2-oz spray bottle. You'll find the FSN on page 3.56 of Fed Cat C6800-IL (Jan 70).





664, like: coatings covered by Fed Spec TT-P-If you need a primer you can use Here's the paint scoop you need. Your M11 decons need painting?

FSN 8010-936-8372 — 1-pt pressurized con

YOU PAINT 'EM. THE DATA

FSN 8010-292-1127 — 1-gal can

FSN 8010-161-7275 — 5-gal can

X34087, such as: TT-E-527 or Mil-E-5556, color No you can use paint covered by Fed Spec For the lusterless, olive drab top coat

FSN 8010-069-1266 - 1-qt can

FSN 8010-297-0560 — 1-gal can

FSN 8010-297-0561 - 5-gal can

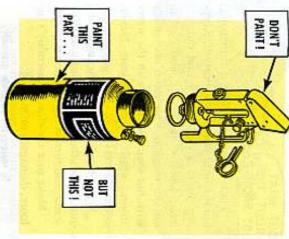
IL-A (Oct 69). The paint's listed in Fed Cat C8000

ink (Fed Spec TT-I-558): the fill note you need marking stencil To freshen up the yellow fill line and



IL-A (Mar 69) for the ink See page 3.13, Fed Car C7510/30

PAINTING CARE



tainer, including the drain plug head. Be sure to mask the decon's instrucand the complete exterior of the conassembly. You can paint the bracket con's empty. Never paint the spray head it's best to do the painting when a de-If it's more'n just a spot-painting job,

tagged unserviceable. So guard the it's lost or damaged the M11 has to be thorized as a replacement part. When Remember, the plate's no longer au-

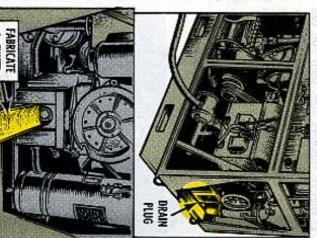
WORK SAVER -

DECON OIL DRAIN

messy flood to mop up. con's metal deck and you'll have a the engine's crankcase oil. Otherwise, the oil will splash smack on to the deyou need a chute of some kind to drain On the M12A1 skid-mounted decon,

3 1/2 inches wide and 12 3/4 inches even from an old tin can or from sturdy of thin aluminum, or any thin metal, or you'll have a smooth chute about 1 1/8 long. Curve the strip lengthwise so cardboard. The strip should be at least You can make the chute from a strip

away from the deck and you can catch away. The chute'll carry the oil well it in a shallow container. engine's front oil drain plug and drain Place one end of the chute under the





Paint's used for many purposes - it protects your equipment, it'll camouflage your equipment, and sometimes it's used to improve looks (take your gal, for instance, she knows how to use it to improve her looks). But paint's still a no-no for the inside of the 5-gal water can.

So what do you do when you find scratches or rust spots on the inside of your water can?

It depends upon the size of the spots. If they're pinpoint size, then you can still use the can. If they're bigger, better turn the can in. When you're not sure whether to turn 'em in or not, get advice from your unit surgeon.



BUT WHAT ABOUT THE RUST SPOTS?

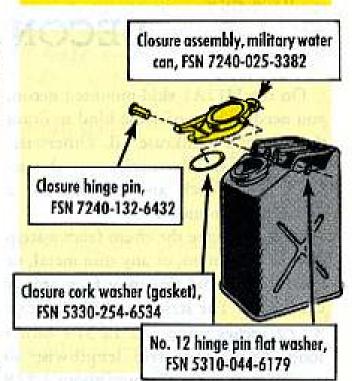
PM HELPS

Those cans need little maintenance, but the little you do is important. Keeping the cans clean inside and out is a must. Use hot water, soap, and a brush on the outside. You clean the inside with hot soapy water. Swish the water around until the can's clean. Never, never use steel wool on those cans.

When they're clean on the inside and out, rinse them with clean boiling water, and turn'em upside down to dry.

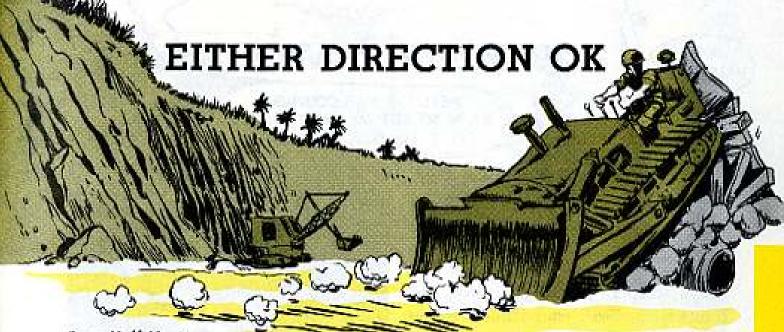
Make sure the closure assembly's not loose, damaged, or missing.

> To replace the complete assembly, or some of the parts, ask for:



You use a non-toxic adhesive to glue a loose or new gasket to the closure assembly. FSN 8040-273-8717 will get you a pint.

The outside of the can may be painted with OD enamel, FSN 8010-297-2124.



Dear Half-Mast,

Often we have to cross base camp 2 or 3 miles with a DTE. Most drivers go in reverse to keep track dust out of their eyes. Will this hurt the equipment?

SGT C. E.

Dear Sergeant C. E.,

No, not if they run in intermediate range to prevent track damage. Reverse or forward makes no difference, but always travel in intermediate range . . . and easy on the throttle. Go piggyback on a trailer if there're many miles to travel.

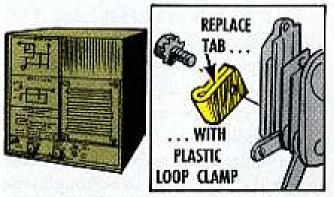
Half-Mast



You can be as snug as a bug in a rug if you do your preventive maintenance on your Hupp Model MH15B3C1, 15,000-BTU space heater.

But you could be left out in the cold if you forget to take a look at the tab in the room thermostat control. Some of those tabs are being cut by an external lockwasher. This'll cause the input voltage to be grounded, and it'll blow the fuse.

To keep your heater in operating condition, examine that tab (which is



made out of .010-in thick fiber electrical insulating paper) for cuts or wear. If it needs to be replaced, use a plastic type loop clamp, FSN 5340-619-0188.



290M PIVOT WOE

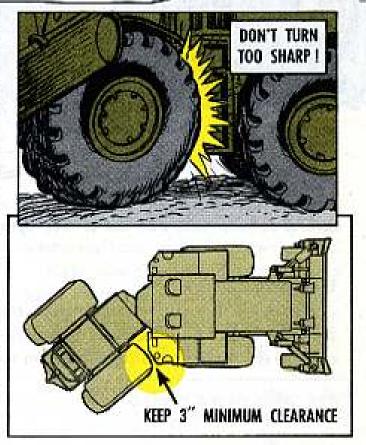
WELL ... I WAS COMING BACK TO GET MY UMBRELLA... SO I TRIED A "U" TURN--



Turning too sharply in your 290M tractor can crack your rear frame. That's disaster, but it needn't happen.

The trouble is, the strain of the whole rear assembly, plus the weight of that heavy scraper, jolts right across the frame sides. First, your fender crushes your oil tank . . . then your upper sling point gouges a hole in the wall . . . then your frame bumpers hit and the shock rips that side plate. The bill could run over \$20,000.

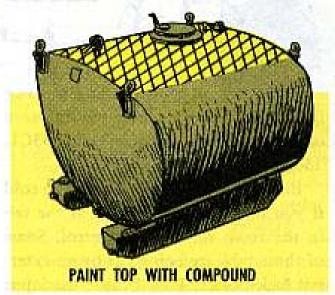
The trick is, never turn so tight you couldn't drop a baseball between the nearest parts of those front and rear sections—specifically, keep at least 3 inches between that fender edge and your tank wall always.



SKIDPROOF YOUR STORAGE TANK

You don't have to be in cold country to find that your equipment can be slippery when you're climbing around on it. Your 600-gal metal liquid storage tank, FSN 5430-585-2529, and FSN 4930-752-9983, can get as slippery as a greased pig if you spill fuel on the top of it or if it's raining.

To keep from making an unscheduled landing from the top of that tank when you're up there filling it, paint the top of the tank with some rough-type non slip walkway compound. FSN 5610-141-7838 will get you a gallon can of OD, MIL-W-5044, type 2, compound.



You can use a brush to paint an area 50 inches by 48 inches from center to center of the lifting eyes on the top of the tank.



7AMMS Pam

Get the new DA Pamphlet 750-38 (May 70) on TAMMS. It's just been printed. Order copies you need on DA Form 17 from the Baltimore Publications Center.

R77LOil Filter

Best not use any older-style engine oil filters on your 6,000-lb RT Forklift. FSN 2940-580-6283 is required on both MLT6 and MLT6CH models, like the new TM 10-3930-242-20P (Nov 69) says.

Loose Dzus?

Ever check for loose items that can cause FOD after your bird comes to roost from support? Like maybe DS or GS has used a jillion Dzus fasteners during an MWO, and a couple of studs dropped into your bird's gizzard. A PMD check on Dzus security—after any repair job—keeps your bird flight-right.

Fuel Hose Wire

No need to replace the whole hose assembly on your M131A5C fuel service semitrailer if the inside ground wire breaks. Just fix 'er up with a new ground wire, like it says in TB 750-981-4 (Oct 69), Article 39.

Check Now!

Have you got an M54A1C 5-ton cargo truck? The new dropside-type? Did it come under Contract No. DAAE06-68-C-Q012? You'd better check the wheel bearings—all 6 wheels. Some slipped by with no grease in the wheel bearings. Dry? Lube em!

Beefed Up Bird Dog

Some O-1G's have been modified to increase the gross weight allowance from 2400 to 2800 pounds. The rest of the G models and 0-1D, E, TO-1E aircraft will also carry a bigger pay load—when you get MWO 55-1510-202-30/7 (30 Mar 70) applied. Schedule it, soonest.

Wrap-up Movies

If you're packing up parts, assemblies or equipment to go back for repair, there are a couple of new movies you oughta see: TF 38-4132 Packaging for Return of Repairables, and TF 38-3892 Packaging for Parcel Post. Get 'em at your local audio-visuals center.

Tachograph Chart

If your 5-ton truck has a tachograph, you use FSN 7640-027-9779 to get a package of 100 replacement charts.

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

