

Your Direct Support Unit (DSLI) has contact teams out most of the time. They do their maintenance on the spot, right in your unit.



The contact team can be a big boost for you and your equipment. When the team's around. you and other mechanics can learn how they do their maintenance jobs. After all, the DSU guys are 'specially trained and highly skilled. Watch 'em. Ask questions. They'll be glad to let you do some of the work under their guidance. You'll learn a lot in the process.

While the contact team is in your unit ask 'em to look over your equipment, your maintenance



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help you spot problems before the problems get to be real headaches. You can then "nip'em in the bud."

So, when the contact team is around, get with them. Learn. Get their help in spotting problems. Invite them to come back often.

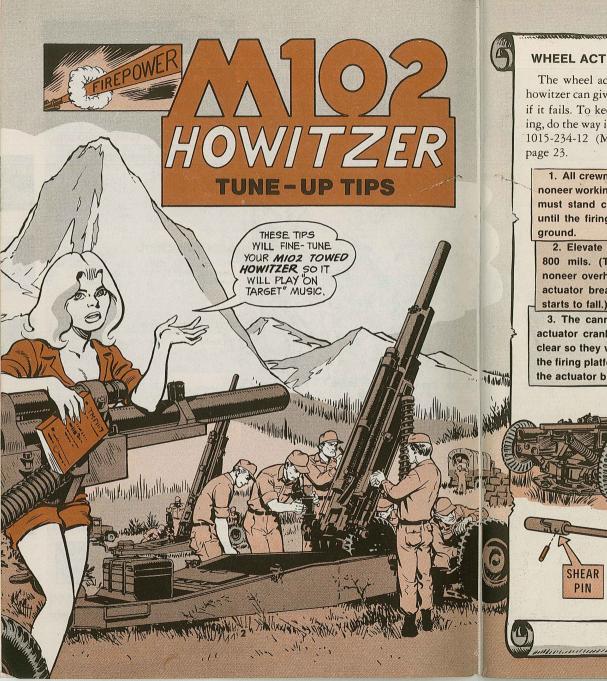
It'll be a big boost toward keeping your equipment-and your unit-ready.

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PS wants your ideas and contributions, and is glad to answer your questions. Name and address are kept in confidence. Just write to: Or call: AUTOVON 745-3503.

Use of funds for printing of this publication has been approved by Headquarters, Department of the Army, 17 July 1973 in accordance with AR 310-1.

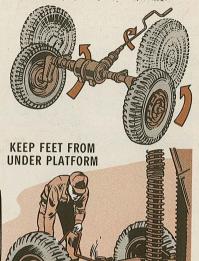
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WHEEL ACTUATOR DANGER

The wheel actuator on your M102 howitzer can give you a hit in the head if it fails. To keep this from happening, do the way it says in Ch 8 to TM 9-1015-234-12 (Mar 65), in para 15, page 23.

- 1. All crewmen except the cannoneer working the actuator crank must stand clear of the weapon until the firing platform is on the ground.
- 2. Elevate the cannon to about 800 mils. (This gives the cannoneer overhead clearance if the actuator breaks and the weapon starts to fall.)
- 3. The cannoneer working the actuator crank will keep his feet clear so they won't be crushed by the firing platform which will fall if the actuator breaks.



The actuator assembly is not made to pull stakes out of the ground when you get ready to pack up. Abuse like this is likely to break the actuator crank shear pin.

USE ONLY THE AUTHORIZED PIN -- NO SUBSTITUTE!



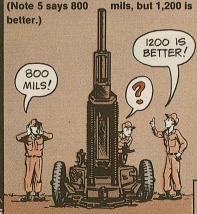
EQUILIBRATORS

Your M102 can't do its best if the ball screw and equilibrator assemblies lock up, creep, or won't hold the elevation that you give them.



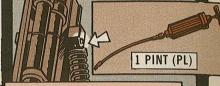
Note 5 to LO 9-1015-234-10 (Mar 72) calls for a monthly lubrication of the equilibrators by organizational maintenance. You do it by the numbers like so . . .

1. Elevate the cannon to 1,200 mils. (Note 5 says 800 mils, but 1,200 is better.) 1200 15



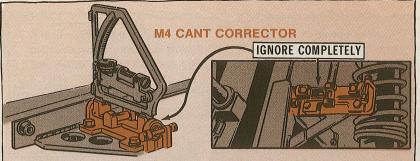
2. With a thin wire, clean the drain hole at the bottom of each equilibrator. (This has to be done or the rest of the drill won't work.)

3. Unscrew the 1/8-in-27 NPT plug at the top of one of the ball screw and equilibrator assemblies. (Be gentle so you don't strip the socket head. Plug, pipe, socket head NSN 4730-00-985-4139 has been replaced by plug, pipe, square head NSN 4730-00-223-9267 to prevent stripping of the



4. With a hand oiler, put a pint of general purpose lubricating oil (PL) into the ball screw and equilibrator plug hole.

- 5. Now screw the filler plug back in making sure you don't strip the threads.
- 6. Repeat steps 1 through 5 on the ball screw and equilibrator assembly on the opposite side.
- 7. Finally, depress and elevate the cannon 3 or 4 times through its entire range to get the assemblies inside the equilibrators completely lubed.



You now have one less thing to worry about. Change 9 to TM 9-1015-234-12 cut out all reference to the cant corrector, and a change to the ESC will delete it there, too. For now ignore it completely but don't take it off. Your support will get the word to do that for you.

EMPLACING THE M102

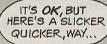


The general dope on emplacing the M102 for firing is in para 15 on page 23 of Ch 8 to your -12 TM.

1. Position your weapon pointing opposite to the direction you want to fire.

AT LEAST 2. Elevate the tube to at least 800 MILS 800 mils. There are 2 good reasons for this. First reason: If the actuator fails while the weapon is being lowered to the firing platform, the tube will be high enough so it won't give you a clout on the head. Second reason: You'll have room to swing the sledge so you car drive in the stakes.

3. Lower the weapon to firing position. While you do this, keep your feet out from under the platform in case the actuator lets go. Also, like the TM says, keep everybody clear of the weapon until the platform is on the ground.





4. Now pound in the 4 rear stakes. (They're under the tube at this time.) You may have to traverse the weapon a few inches left or right to set the stakes in front of the wheels. Never—but never—pound stakes in except from the front, under the tube. If you do it from the rear, you're likely to slam the sledge into the sights.

5. Traverse the weapon until it points in the direction you want to fire and then you can start laying the howitzer while the other 4 stakes are being hammered in.



S ALRIGHT

HANDLE

IS WEDGED!

SALRIGHT!

LANYARD LENGTH



CUT PIECE OFF— HANDLE NOW 2 INCHES BELOW CRADLE BRACKET.

The lanyard, NSN 1015-00-317-2484 (8407418), is so long that its handle can wedge between the cradle and recoil and keep the weapon from returning to the full in-battery position.

Cut a piece off so this can't happen. The handle should be only 2 inches below the cradle bracket assembly when you have it cut to the right length.

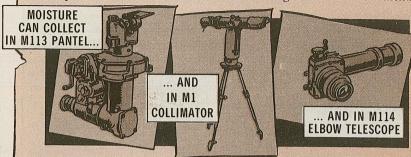
M134 MOUNT AND M14 QUADRANT

The crew does not take off or replace the M134 mount and the M14 fire control quadrant. This is in Ch 7 to TM 9-1015-234-12, but some guys don't yet have The Word. So here it is again: Removal/replacement of both the M14 and the M134 mount is for direct support or higher level, not for crewmen. There's a good reason for this. These 2 items are precisionadjusted to the individual weapon and if you take 'em off you change the adjustment.



INSTRUMENT PURGING

Moisture will accumulate in the M113 pantel, the M114 elbow telescope and the M1 collimator. This causes a fog inside the instruments



that makes them difficult, or even impossible, to use. So do these things:

1. Make sure your fire control instrument mechanic purges and charges them with nitrogen every 90 days the way it says in TM 750-116 (Oct 71), or sooner if there is evidence of moisture.

2. See that the boresight parallax shield on the M113 is in closed position when you're not using the pantel.



3. There should be a gasket around the counter night lighting bulb. If there isn't, have your mechanic put one in.

FILLMORE! THE
TELESCOPE IS ALL
FOGGED UP!... AND
AT SUCH A CRITICAL
VIEWING TIME...

SORRY, SARGE --WE PURGED 'EM 89 DAYS AGO ... ACCORDIN' TO THE TM!



M113 PANTEL DETENT

Some gunners forget to adjust the 5mil direct fire detent to the proper position. Be sure to have the word

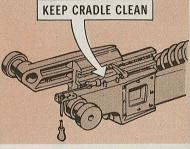


INDIRECT showing when you are doing indirect fire and DIRECT when your fire is direct.



CRADLE CRUD

Any kind of crud in your cradle can get compressed during firing so the weapon won't return to the full inbattery position. This is serious because it separates the firing mechanism pawl from the breech firing plunger. When that happens, of course, you can't fire the weapon.



So watch your cradle and keep snow, ice, dirt, sand or anything like that from accumulating there.

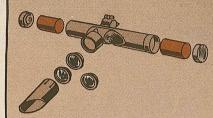


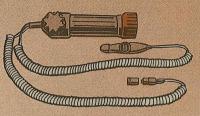
INSTRUMENT LIGHTS

YEAH -- GAMA MUSTA HEARD ABOUT THOSE TIGHT TURNS PVT. LITTLE MAKES

You need batteries, NSN 6135-00-120-1020, for your M14 aiming post lights often get lost. A substitute cover light and your M52 and M53 instrument lights-2 in each.

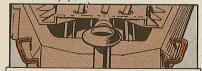
The metal covers for the M52/M53 (plastic) can now be ordered as NSN 1290-00-186-0058





The M561 Gama Goat can kick up a little when you're making a tight turn with your M102 towed howitzer hooked on it.

The Goat can mash one or other of the trail-lifting handles, depending on which way you turn.



DON'T LET GAMA GOAT MASH HANDLES

For now, be careful when you have to make a tight turn. Also, when you

back up, take care not to jackknife your M102 and your Goat.

WALL STANDING STANDIN

The lifting handles on the M102 have been redesigned and the new handles can be replaced in the field. New and recently overhauled weapons will have the handles attached with screws and located forward of the present handles.

INSPECTION PLATE POOP



We don't mean dental plates. We mean the access plates on your combat vehicles.

These plates let you get through the bottom of the hull to inspect, lube or



service parts of your vehicle you couldn't reach otherwise.

Once you do the service, close up the plate and leave it closed until the next service period.



Leave the plates out and this is what happens . . .

1. If you have a fire, most of the foam from the fixed fire extinguisher (or extinguishers) gets wasted out the access holes and your fire keeps burning.



FIRE? EXTINGUISHER FOAM GETS WASTED OUT

WHOOTH

ENGINE RUNNING? JUNK GETS SUCKED IN.

2. The engine fans and turbochargers pull all kinds of mud, crud, leaves, water, gravel, and gosh-only-knows-what-else through the open access holes.



This trash clogs the fins of the cooling system, and makes your engine run hot. The water is also bad for the hull wiring and other electrical parts.

So do this for your combat vehicle... Keep the plates in her and she'll be a winner.

M44 COVER-UP

periscope whenever you remove it position whenever you remove the from its dim-lit home in the M551 periscope. That, too, protects the Sheridan.

Reason: The image tube'll go blind if you don't. The periscope has a great cover, use anything. Cardboard, a little cover (Boresight Aid Assembly NSN 1240-00-950-1605) for blotting out light whenever necessary. Naturally, you use the cover for boresighting during daylight hours, IN PLACE

Otherwise, bright light (like sunlight) will burn up the tube.

Blind-fold your M44-Series Remember to put the filter lever in off image tube.

> If you don't have the ready-made paper bag, foil . . . anything.



SORRY-

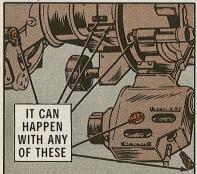
LAMPS

ARE NOT

MIDGET LAMP

SP howitzer men can get in the biggest maintenance jam over the littlest PM job.

with a system short-circuit when you socket. As soon as metal touches metal telescope mount M145.



It happens too often . . . like so:

You leave the power ON and use a knife blade-or screwdriver-under F'rinstance, your howitzer winds up the lamp's flange to lift it out of its replace one of the 6 midget lamps on ... a short-circuit blows the system and the MO's mind!



Figure 3-9, TM 9-2350-217-10 (Dec 69) has the lamp put 'n' take PM poop. Just remember-power OFF. And never use a sharp-edged metal object under the flange when you take out a lamp.

10

M114-SERIES CARRIERS

HOT FLASH ON COOLING SYSTEMS

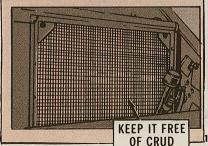


The cooling system on your M114series command and reconnaissance carriers has to be in top shape to do its job.

Let it get sloppy and you'll have overheating.

So here's what you do to keep your coolant cool . . .

1. RADIATOR. Clean it free of grease, oil, dirt, leaves, etc. Have any coolant leaks repaired. Check coolant for proper level before operation (Add this to your Preventive Maintenance Checks And Services on pages 79-88 of TM 9-2320-224-10—Nov 64.)



2. V-BELTS. Make sure the belts for the water pump and fan are at the right tension, neither too tight nor too loose. (Tension is correct when belt



can be depressed a maximum of %-inch.) Your mechanic will adjust tension for you the way it shows on page 116 of TM 9-2320-224-20 (Jan 65).

3. Run engine at half throttle in neutral to drop temperature of coolant whenever the HI water temperature light comes on.



Good maintenance prevents overheating.

M107/M110 SP ARTILLERY

AM-1780 AMPLIFIER COVER READY

WHAT'S NE SO PROUD ABOUT...



HIS AM-1780 HAS A GUARD ON IT!

No problem keeping the water out of your AM-1780 amplifier if you have a guard to do it—guard assembly NSN 5830-00-179-7736.



It also protects the connectors from the crew's careless clodhoppers.

The amplifier is in a vulnerable place on the right side under the assistant gunner's seat but the guard keeps the amplifier safe.

There is even a little trapdoor on the top so you can work the toggle switch without taking the guard off.

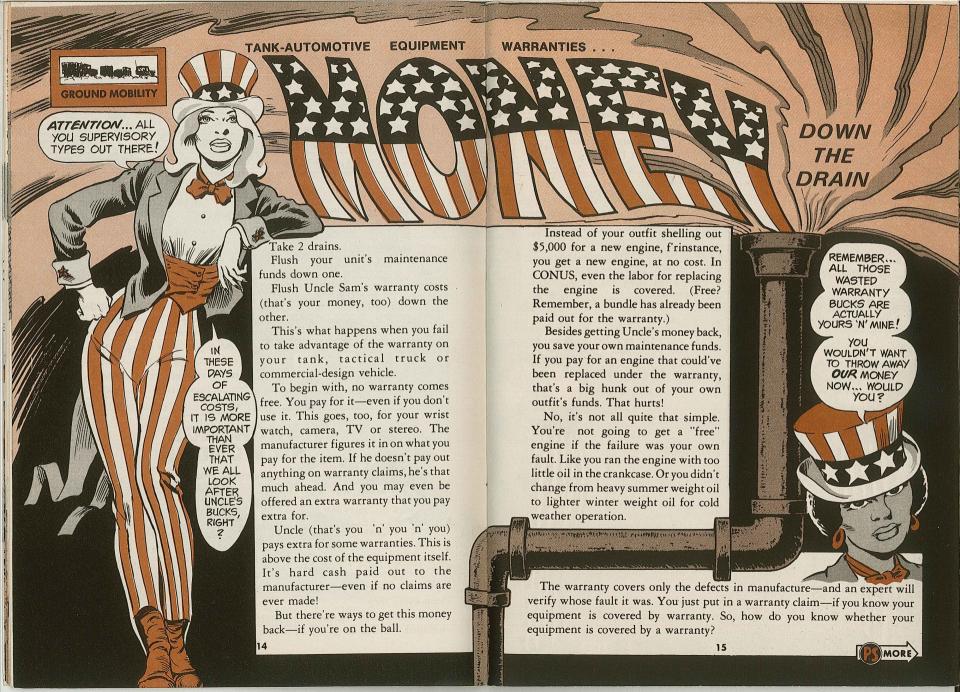
So, if you need the guard, order it. Your authority is SB 11-131 (Nov 68), since the cover has been added to the installation kits for the VIC-1 intercom sets that go into SP artillery.



The differential oil filter element in your M113-M113A1 family of vehicles is not a throw-away.

The element's made of wire mesh that can be cleaned by soaking in SD-2 solvent and rinsing. Follow the instructions in LO 9-2300-257-12, and you'll be clean every time.

If the filter cover gasket is in short supply, reuse the old gasket if it's not damaged. It's best to go ahead with a new cover gasket if they're available.



It'll be mentioned in the -10 operator's TM for military-design vehicles. For commercial-design vehicles, a copy of the warranty coverage comes with the operator's manual.

For another thing, there's probably a decal or plate on the instrument panel of your vehicle that tells you.

And the DA Form 2408-9, Block 15, in your equipment's log book tells

Also, there're TB's-the TB 9you. 2300-295-15-series—listed in DA vehicles.

YOU CAN

ALSO GET DETAILS BY

WRITING

Commander

Command

through.

Control Officer)

Warren, MI 48090

Equipment failure?

US Army Tank-Automotive

ATTN: AMSTA-MSA (Warranty

Think WARRANTY—and follow

You'll find more info on commercial-design vehicle warranties in AR 58-1, AR 700-88 and TM 38-600

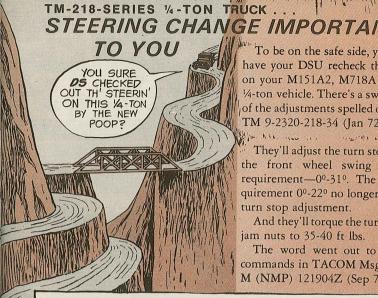
How do you make a warranty claim? TM 38-750, para 3-18, steers you in using DA Form 2407 in making claims. And DA Form 2402 is used to tag exhibits in warranty claims.

Still up a stump?

Try your friendly MAIT (Maintenance Assistance and Instruction Team). Ask the folks in your local LAO (Logistics Assistance Office). 2300-29)-1)-series Williams Andrews (2001-29)-1)-series Williams (2001-29) Pam 310-4 that commercial-design Operation) or your own \$4 can put you in touch with the commercial trucks in touch with the LAO.

OR CALL 'EM AUTOVON 369-2951

OR 369 - 2885.



To be on the safe side, you'd better have your DSU recheck the steering on your M151A2, M718A1 or M825 1/4-ton vehicle. There's a switch in one of the adjustments spelled out in their TM 9-2320-218-34 (Jan 72). Who he was in

They'll adjust the turn stops only by the front wheel swing arc outer requirement—0°-31°. The inner requirement 0°-22° no longer applies in turn stop adjustment.

And they'll torque the turn stop bolt jam nuts to 35-40 ft lbs.

The word went out to all major commands in TACOM Msg AMSTA-M (NMP) 121904Z (Sep 74).

SEMITRAILER BRAKE AIR SYSTEM

A new fix for old problems nylon-type tubing.

steel air line tubing poops out.

Fact is, you don't even have to worry Maintenance Digest. about in-line air filter problems

anymore. You just take the filter out of the system and run a hunk of this nylon tubing through. You won't find an air filter on new-production semitrailers— they've got nylon tubing instead.

Get the story in Article 3-18, TB 43-That's how you handle the problem 0001-39-3 (dated July 74), the US when your semitrailer's copper or Army Tank-Automotive Command's Equipment Improvement Report And



GOOD NEWS BUDDY --THIS NEW NYLON-TYPE TUBING WILL GET YOU BACK IN ACTION SEMITRAILER TM'S WILL ALSO BE PICKING UP THIS NEW INFO /



It saves—and that pays.

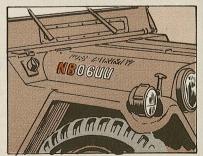




Does your new 1/4-ton operate like it's got an upset stomach?

Do you have to keep the choke pulled out a little to get rid of the burps and hiccups?

This can happen with the M151A2, M718A1 and M825 vehicles that've got the "clean air" engine. (You can spot these 1/4-tonners by the registration number-it starts with NB.



Don't run off and hide in the grease pit. There's no need to be scared of this job. It's easy. And you'll learn some things you can use on almost any gasoline engine-including that mill in your own set of wheels.

IF YOU'RE A LITTLE GREEN OR FUZZY ON TEST EQUIP-MENT ...

SHARPEN UP WITH THESE

—DA Poster 750-51 (Dec 73), Using Your Spark Plug Cleaner And

—DA Poster 750-57 (Dec 73), Using Your Timing Light —DA Poster 750-58 (Dec 73), The Tach-Dwell Test Set

These posters—and some others on test equipment—should be in your own shop. Your unit gets 'em by ordering from the AG Publications Center in Baltimore.

Pretty much the same poop—in pocket size—comes in DA Pam 750-22 (Nov 73), Troubleshooting Equipment In Combat Units. And you'll find all of the test equipment posters listed inside the front cover. This DA Pam comes from Baltimore, too. You should have one all your own.

Registration numbers on older vehicles—without the clean air coming to the rescue! engine—start with 02.)



Rejoice! Doctor Wonder Wrench is

THAT'S

YOU -- THE

GOOD OL'

UNIT

MECH!



READY?

Before you dig in, make sure your spark plugs are in good shape and gapped right—.029-.032—like that spark plug poster shows you.



- —Tach-dwell set
- —Timing light
- —Screwdrivers (to adjust engine idle, remove distributor cover and adjust distributor cam-dwell angle)
- —Wrenches (for timing adjustment, distributor cover plug, distributor adapter and spark plug cable)
- —Thickness gage (for adjusting distributor breaker points)
- —Distributor adapter (for tachdwell hookup)
- —Spark plug adapter (for timing light and tach-dwell hookups)
- —Pocket knife, prick punch or other sharp, pointed tool (to remove carburetor sealing plug)

 the oth fender.

 Be re
- —Socket head screw key, 5/64-inch (for carburetor mixture screw)

Piece of chalk (to check timing)



Your test equipment and most of the other tools can be set on the right fender.

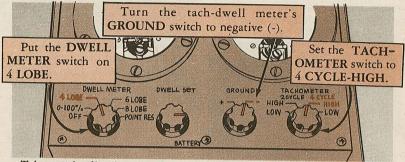
Be real careful with those cables on your test equipment so they—and you—don't get caught in the fan or fan belts.



FIRST CAM-DWELL ANGLE

All tach-dwell sets are not exactly alike, so these steps may not fit yours. But that poster on tach-dwell sets will straighten it out for you.

Make sure the transmission's in neutral and parking brake is ON. Run your engine until it's warmed up— about 140°F—and shut 'er down.



Take out the distributor cover plug and install the distributor adapter.



Take off the front (No. 1) spark plug cable. Install the spark plug adapter on the plug and the cable on the adapter.

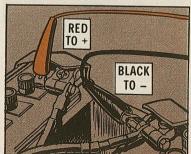
Watch it when you connect the tachometer lead to this spark plug adapter. You can burn up your tachdwell set. If there's an alligator clip on that lead, it hooks up to the nipple on the adapter.

But if the tachometer lead has a split sleeve clamp on the end, you just clamp it around the cable part of the

spark plug adapter—so it doesn't



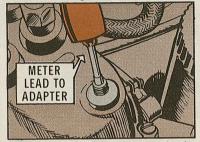
Now connect the branched lead ends to your batteries—red to positive and black to negative.



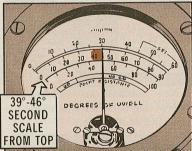


Turn the DWELL SET knob so the needle of the left-hand meter (DEGREES OF DWELL) is on the "set line" specified for your meter. For the meter shown here, the "set line" is 90-at the right end of the 4 CYL scale (second scale from the top).

Connect the dwell meter lead to the distributor adapter.

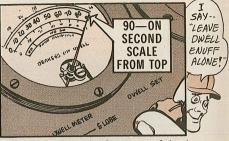


Idle your engine and watch the dwell meter. It should read between 390 and 460.



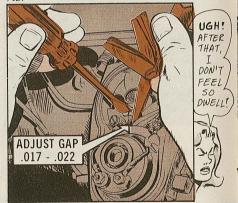
If it doesn't, your distributor breaker points need adjusting.

the breaker arm rubbing block is from rusting.)



exactly on the peak of any one of the 4 lobes. (Use gloves or a rag when you grab the fan blades to turn the engine. If the fan belt slips, just press on the belt with one hand and turn the fan with your other hand.)

Now adjust the point gap to .017-.022-just like it says in TM 9-2320-218-20 (Sep 71), page 2-129, para 2-



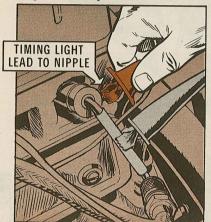
(Before you stick that thickness Shut off the engine. Take off the gage in between the points, make sure distributor cap. (You'll have more you've wiped any grease off the gage. room to work if you unhook the rear You'll ruin the points if you get grease spark plug cable. Just remember to on 'em. Natch, when you're all done hook it back up for engine operation.) with this job, you smear a thin coat of Turn the engine over by hand until oil or grease on the gage to keep it

Put the distributor cover back on and check again for the 390-460 dwell ed up. You'll need the tachometer part angle. If needed, adjust the points of it, because now it's . . . again to get the right reading.

... TIME FOR TIMING

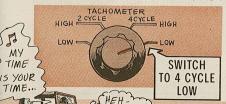
pointer and the crankshaft pulley should show 450-500 RPM. If RPM is notch. If you can't see the notch, turn the engine over by hand until the notch comes around.

Set the timing light selector switch to 24 volts. Clip the single timing light lead to the nipple on the spark plug adapter. Hook up the branched lead to



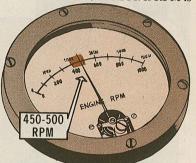
the batteries—red to the positive (+) post and black to the negative (-) post.

Run your engine at idle speed. Then turn the TACHOMETER switch to 4

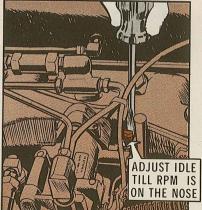


Leave your tach-dwell meter hook-

Use chalk to brighten up the timing CYCLE-LOW The tachometer



higher or lower, turn the idle speed adjustment screw until it's on the



Aim your timing light at the timing pointer. Your timing's OK if the pointer lines up exactly with the notch on the crankshaft pulley.

TIME



ENGINE IDLE SPEED—700 RPM

With the socket head screw key, f'rinstance, try it at .02 slowly turn the mixture adjusting the point gap will sh screw counterclockwise. The engine dwell angle reading.)



will probably speed up a little—watch the tachometer. Keep turning the screw until RPM no longer increases.

Go back to the idle adjusting screw and turn it out until engine RPM is back at 700 RPM.

Turn the carburetor mixture screw clockwise until engine idle speed is at 640-650 RPM.

Before you wrap it up, take your ¼-tonner out for a test run. If it's still a little rough, you may need a bit more gap in your distributor breaker points. If you had the gap set at .019, f rinstance, try it at .020. (Going up on the point gap will show a lower cam dwell angle reading.)

Recheck with your tach-dwell meter.

And recheck your timing, too.

Finally, tap the sealing plug back into the carburetor. If the plug's too torn up, fill the hole with rubber sealant—NSN 8040-00-833-9563.

(MMMMM)

THAT ALKY SELTZER

BURP DID IT ...

NOW WE

BOTH FEEL

BETTER!

RIGHT ON!

24

plug too much, you can use it over

Set your engine idle speed at 700

again.)

RPM.



Which fuel pump goes in the flame heater system for your multifuel engine?



Both are in TM 9-2320-209-20P (Oct 72) and TM 9-2320-211-20P (May 73). But watch it—the Useable On Code can throw you. Some engines are exactly alike except for the flame heater system. It depends on when the engine was built or rebuilt.

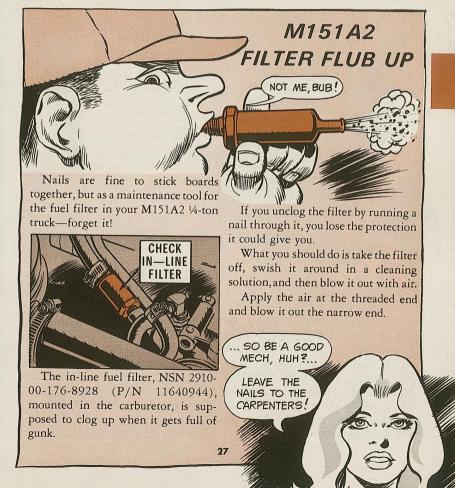
There're 2 different setups for the top-mounted pump-covered and uncovered. The 2 clamps that come with a top-mounted pump are used only with the uncovered setup.

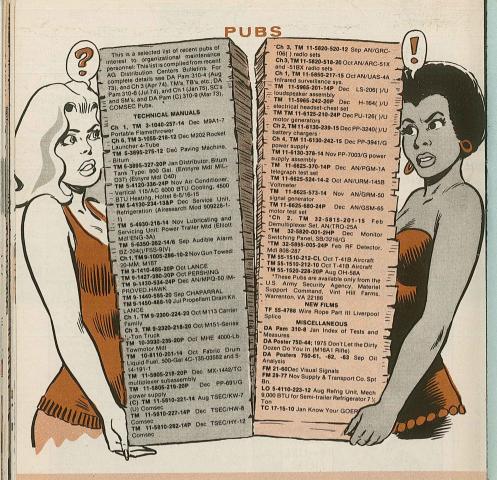


Your new top-mount pump may have to get your DS to lend a hand in not look exactly like your old pump. identifying the filters in their TM 9-The length and diameter of the pump 2815-204-34P (Jun 73) or TM 9-2815and location of inlets and outlets vary 210-34P (May 74). These're the TM's according to the manufacturer. But that cover the 7 different multifuel these different-looking top-mount engines. pumps are interchangeable.

filters with your flame heater system. tifuel engine trucks. Just any ol' filter won't do! You may

All of this poop goes, too, for those And make sure you use the right 5-ton M656, M757 and M791 mul-





NSN's For Film Chemicals

Looking for lesser amounts of EHpackages for 5-gal amounts. NSN 6750-641 developer replenisher.

The Cable Makes 9t Able

The NSN for the rear throttle cable on 29B photographic processing machine your M543A2 5-ton wrecker is not in TM film chemicals to knock shelf-life 9-2320-211-20P (May 73). If you're waste? Well, now you can get it in hurtin' for certain and need this throttle cable, ask your support to round it up 00-586-6247 is for the Kodak Versamat for you with NSN 2590-00-912-3110. 641 developer starter, and NSN 6750- It's on page 2-13, TM 9-2320-211-34P 00-586-6248 for the Kodak Versamat (Apr 72)—and it's coded "0" for organizational maintenance.







COPY OF TRUSTY OL AR 710-2 with Ch 2 AND ...

... JUST WHIP OUT A

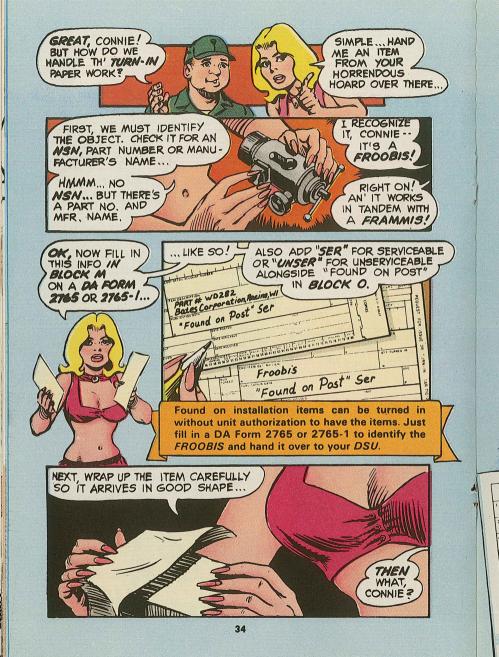
ACCOUNTING FOR SUPPLIES FOUND ON INSTALLATION (FOI) IS A SNAP ... OR AT LEAST NO SWEAT!

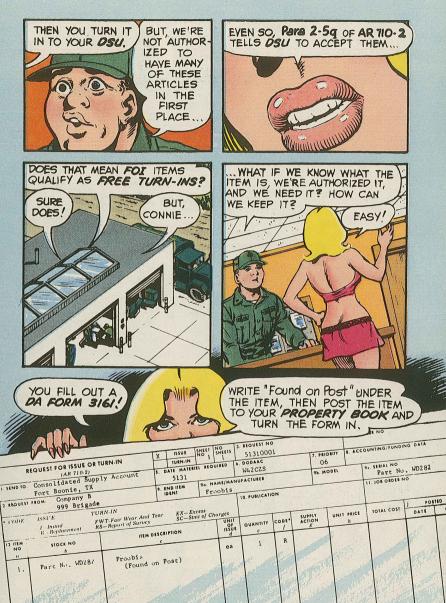
BUT ... BEFORE WE GO ANY FURTHER, LET'S HANG THIS PIN-UP...WHICH, AHEME BY STRANGE COINCI-DENCE, IS ON THE SAME SUBJECT!





WE HAVE THE WORLD'S BEST EQUIPMENT ... Take care of it





HOWEVER,
IF THE ITEM
IS LISTED IN
Appendix E OF
7M 38-750, FILL
OUT THE FORMS
INDICATED INCLUDING TWO
DA FORMS 2408-9.







FREE TURN-IN PAPER WORK IS STRICTLY NO

SWEAT, CONNIE!





THIS IS WIMBY
AT 649th Maint. HOT
TROT UP HERE IF YOU
WANT THOSE PARTS
YOU HAVE ON PUE
OUTS... WE JUST
GOT A TRUCKLOAP
OF STUFF!



SAY, CONNIE, DO YOU HAVE A SOCIAL SECURITY NUMBER.



I'M FILLIN' OUT A

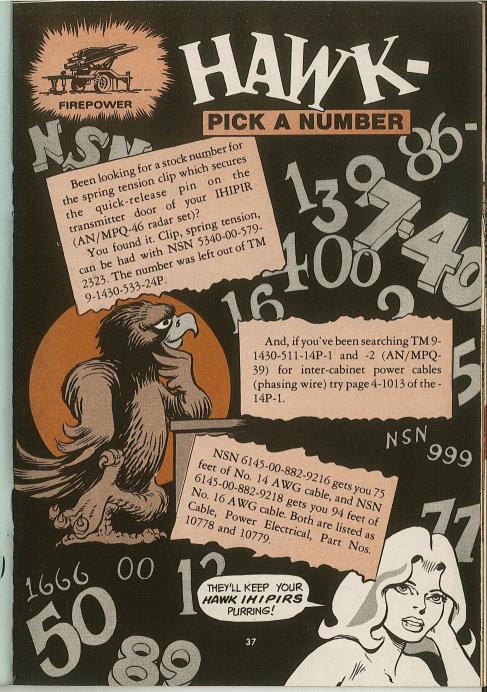
DA FORM 316! ON YOU!

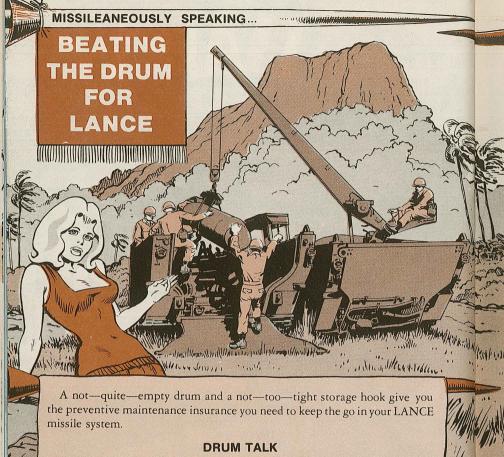
AFTER ALL, WE HAVE

FOUND YOU ON OUR

(NSTALLATION!







The drum on your loader-transporter can beat your winch cable silly if you get a little inattentive when unreeling the cable.

For instance, if you allow the cable to unreel all the way, the drum will back-reel it, crimp it and cause stress damage, too.

To prevent that, never allow the drum to empty. Best bet is to keep a coil of cable on the drum spool . . . and don't go beyond that

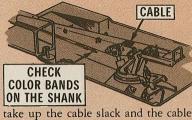


STORAGE HOOK

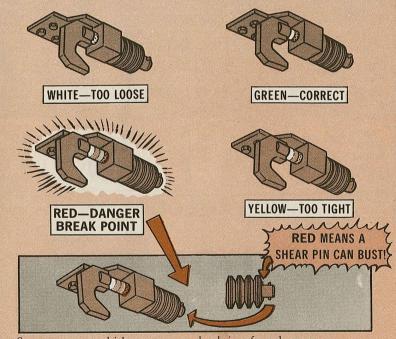
Add a little color to your life when securing the storage hook on the loader-transporter boom.

Think green.

When you're storing the hook, eyeball the color bands on the COLOR BANDS shank . . . and concern yourself with ON THE SHANK



the first 2—white and green. As you take up the cable slack and the cable begins to firm up, go beyond the white (which means the hook is too loose).



Stop at green, which means your hook is safe and secure. If you go beyond green to yellow, back off. You're too tight.

And red, naturally, means danger. You're so uptight that you're about to bust the shear pin. If that happens, those spring-loaded washers will fly around like shrapnel.

Back off to green, quick. Save a repair job . . . and maybe some hide.



A clean area around the pedestal assembly of the loader-transporter is like putting repair time money in the bank.

An uncluttered pedestal area prevents damage and unnecessary wear .

AND MAYBE EVEN AN INJURY OR TWO!

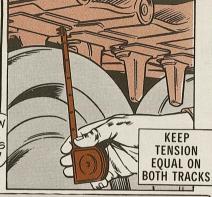


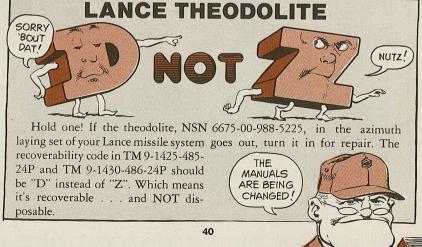
TENSION

T-e-n-s-i-o-n. Every tracked vehicle must have it

Track tension, that is. And it's important that you adjust the tension the way it's spelled out in para 3-24 and Figs 3-19 and 3-20 of TM 9-1450-485-10 on the carrier.

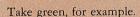
Keep the tension equal on both tracks. That keeps the carrier from pulling left or right.







Why is the LANCE missile system like a traffic light? Because whenever you see green it's GO, and if you observe a few cautions along the way, you can keep the loader-transporter and launcher out of the red

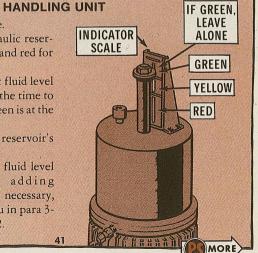


The handling unit hydraulic reservoir is coded green, yellow and red for level of fill.

And, when the hydraulic fluid level indicator is at green, that's the time to leave it alone. Naturally, green is at the top of the scale.

If you add fluid when the reservoir's full, you can damage it.

Best bet is to check the fluid level indicator before adding fluid . . . and then, when necessary, add fluid the way it tells you in para 3-22 of TM 9-1425-485-10-2.



OLD YELLERS

Now, about those cautions

When you remove the transport lock pin from the launch truss assembly, elevate the launch truss about 100 mils above horizontal. The TM will be changed to "100 mils."

That stops the missile or Missile Main Assemblage (MMA) from sliding off the launcher.

It also prevents damage . . . and





CAB GRABBERS



When you raise the carrier cab, doublecheck all latches for tightness after you secure the cab.

Loose latches can let the cab collapse. Let your imagination take over on that.

BATTERY BYWORDS

Terminal connections in the launcher battery box work loose . . . causing power loss and the equipment power light to go out.

So, before you abandon a mission because of power loss, inspect the connections . . . and snug 'em up, if necessary.



UMBILICAL ILLS

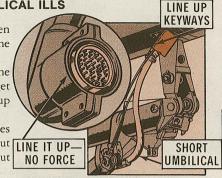
Easy does it is the word when mating the short umbilical to the missile.

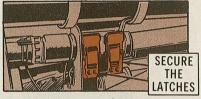
Line up the keyways and push the connector snugly into place. If you get resistance, back off and line 'em up right.

Forcing the connector damages terminal pins, and damaged pins put LINE IT UPyour missile down. It takes time to put it right again.

On the long umbilical, secure connector box latches are a must before firing.

If the latches are loose or open, you can damage both the umbilical and the monitor-programmer.





LANCE CANT

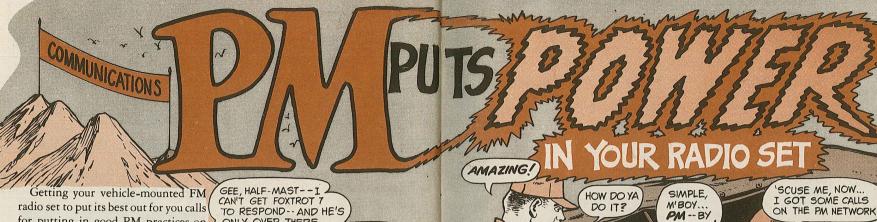
Your Lance missile system can't be accurate if you bang up the cant mirror arm.

Rough handling and careless storage of the sighting and laying equipment (SLE) throws the cant mirror arm out of tolerance, causing boresight errors. So do this to put the can back in your cant:

When you store the SLE, be sure the storage container.



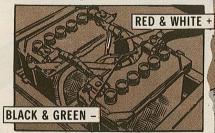
When you handle the SLE, treat it cant mirror arm clears the lid of the like the precision gear it is. Rough treatment can ruin it.



for putting in good PM practices on your radio set.

That's right . . . PM!

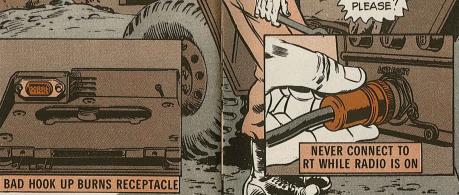
Like, when you're tying in the CX-4720 power cable assembly into the vehicle battery. Make sure the black and green wires are connected to the negative (-) post—and the red and white wires are connected to the positive (+) post.



Reversing polarity on the battery hookup can damage the MT-1029 mount receptacle. In other words-Burn it up.

Should you be so unlucky, this hokey hookup will feed into your receivertransmitter and silence'll sink over your set, permanent-like.

ONLY OVER THERE ON THE NEXT NO WONDER ---YOU REVERSED HILLTOP! THE POLARITY WHEN YOU HOOKED UP YER POWER CABLE TO THE BATTERY REALLY ZONKED YER SET



While you're on this hookup biz, never connect the matching unit cable to the RT while the radio is on. You can burn the pins on the cable connector and burn the ANT CONT receptacle of the RT.

HOHENFELS

FOXTROT 7...

TH' BOOK!

CALLING

FOXTROT 7

THULE CALLIN

OXTROT COME IN

> Searing the receptacle can close a contact, which spells real trouble for your RT the next time a cable is connected.

FOXTROT 7

THIS IS

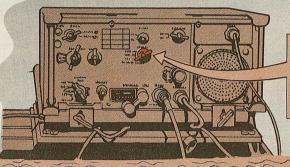
SEOUL!

PANAMA TO

While on this on-off bit for your radios you should make a mental mark to remind yourself to always turn the power switch to the off position before taking a radio component out of its mount. Besides playing havoc with the mount's receptacle, that wayward electrical current can make with the ulcers to the inside of your receiver-transmitter.

Be sure the power switch is off when you install the radio set, too. The same thing can happen.

If you don't have a DA Label 132 (Nov 69)—Warning to turn off radio set—Get one! . . . like it says in SB 11-624 (Mar 70).



MAKE SURE POWER SWITCH IS OFF WHEN TAKING OUT OR INSTALLING RADIO SET

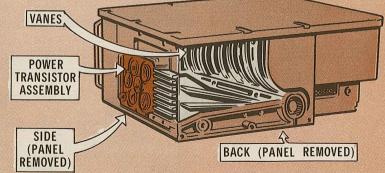


A real good habit to get into before keying your radio set is to wait a minute or two after turning it on. This'll let your set heat up. And, a little wait will go a long way in saving the PA tube.



Keeping your set hot to transmit and receive means keeping its innards cool, man.

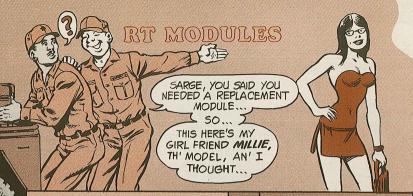
The best way to do that is to take off the side and back panels to get rid of dust and dirt on the power transistor assembly and the vanes of the heat exchanger.



That goes for the fins of the blower motor fan, also. A toothbrush will do the job.

Replace the panels when the cleaning's done.

MOR



When you're replacing any of the A8000 assembly's modules be sure the retaining clamp or C-ring is in place on the hinge pin. It doesn't take much for the pin to jiggle off and fall into the RT's insides

This could short out or jam various components and put your set on the blink.



The long pin holding the A3000 and A4000 assembly's modules should have the head of the pin next to the side of the set.

Then, when the bottom and top covers are in place, the pin can't fall

If it's a problem losing the C-ring on a shorter pin, fasten 'er in with safety

Loop the wire around the C-ring end and through the eye of the pin. Give'er a couple of twists.

This'll snuggle in the pin until you're ready to take 'er out next time.





PANEL KNOB



accessory.

If the O-ring's missing, you get loose contacts between the connector and audio receptacle. This could damage the pins and cut out your transmission.



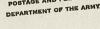
DEPARTMENT OF THE ARMY

O-RING

MUST BE

IN PLACE

OFFICIAL BUSINESS PENALTY FOR PRIVATE USE \$300 POSTAGE AND FEES PAID



DEAD LETTER

Did you write to PS Magazine and didn't get a reply? Maybe you missed the new address for MSG Half-Mast, Connie and Bonnie:

Lexington, KY 40507

Your letter or card to the old Fort Knox address will wind up in the Dead Letter Office. So, write to Lexington.



76/GGC, the sneakiest opponents are dust, dirt, grit and grime.

They'll punch your set below the belt.

So, keep it clean-both inside and

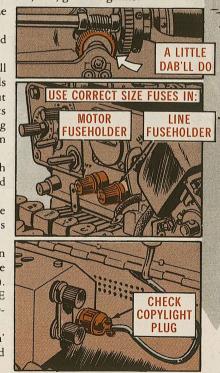
While you're at its innards, eyeball the carriage feed drive wheel. It needs grease . . . just a dab'll do. Without grease, the wheel will wear off its teeth and get to slipping something fierce without any force on the worm gear.

Overgreasing is a NO-NO. With too much grease you've got a dust and dirt catcher.

Another thing that'll weaken the TT-4 and -98 is usin' stronger fuses than they need.

When you're replacing the fuse in the LINE FUSE fuseholder make sure it's 1/8-amp (NSN 5920-00-356-2188). The one in the MOTOR FUSE fuseholder is 1.6-amp (NSN 5920-00-224-5269).

Over-fusing over-exerts 'em, lettin' too much juice get to their vitals, and puts 'em down for a bad count.



And take that TT-76 ... that little ol' copy light plug (P12) can take your set out of action. Especially when you take the dust cover off and fail to pull the plug out of the jack (I12). You could put a message on your CAUTION—UNPLUG mind to remember to always pull that DUST COVER COPY LIGHT BEFORE plug when removing the cover. REMOVING COVER Better yet, paint on the underneath side of the dust cover the words: CAUTION-UNPLUG COPY P-12 LIGHT PLUG **BEFORE REMOVING COVER** KEEPING HEAT DOWN IS NO SWEAT! JUST HANG IN WITH

51

PROJECTOR PROTECTOR

THE COOL ONES

RUN FOR IT

QUICK. FELLAS

One of the coolest you can come by is the heat absorbing filter (NSN 6730-00-804-2187) in your PH-637A, -B or -C still picture projector.

That filter knocks the hots out of the 1000-watt lamp so the lens doesn't melt before your eyes, or the projector doesn't go up in one big POOF!

So make sure you clean the filter with lens tissue once a week. Always put the filter back in before turning on the lamp.

While you're at it, listen for the blower motor to come on when you turn on the projector.

If there's silence, shut down your gear and tell your support.



SPOIL

SPORT/

MOBILITY

WHADDAYAMEAN MEBBE WE SHOULD CHANGE THE OIL IN TH' GEAR BOXES?

TH' PM PERIODIC ISN'T DUE YET.

:KOFF:

Let's face it, Huey mechs—the oil in the intermediate and tail rotor gear boxes is going to get dirty from ordinary wear. It shouldn't be black and gritty, tho.

Otherwise, high amounts of iron. aluminum and silicon (sand) in the oil are going to couse deep scratches and pitting on the rollers and inner races of bearings. Your gear boxes won't go the distance.

That's why the Preventive Maintenance Periodic checksheets call for changing the oil every 100 hours. Do it, man, and save the gear boxes!

When you're operating under extreme weather conditions and dirt or moisture is a real problem, eyeball the oil closely. If your oil gets dirty, get the OK from your maintenance officer

type oil you used before. Use either (Apr 71) on the T53 engine. TM 55-MIL-L-23699 or MIL-L-7808 (7808 is for cold climates.) Mixing oils can changeover info for the gear boxes, contaminate the whole shebang.

RIGHT ON!... BUT ... THESE CONDITIONS CALL FOR MORE FREQUENT CHANGES!

EHAK:

GEAR BOX CHECK GEAR BOXES OFTEN 90° GEAR BOX

To head off oil contamination when changing from MIL-L-7808 to MIL-Lto change more often than 100 hours. 23699 and vice versa, follow the Service your baby with the same servicing poop in TM 55-2840-229-24 1520-210-20 (Sep 71) has the transmission and rotor head.

Never use oil from previously opened cans. Who knows what junk got into them? Open up a new can, use what you need and get rid of what's left.

If you've been throwing out oil left in quart cans maybe you need smaller

ASK FOR THESE 8 OUNCE CANS ..

NSN 9150-00-108-5359 MIL-L-7808

NSN 9150-00-180-6266 MIL-L-23695

SAVE THE WINDSHIELDS

Some mechs go overboard when polished out. Then, back they go. putting a windshield in their Huey 'Course, you wouldn't pull a trick is in there to stay . . . and that means organizational maintenance pub! trouble!!

Some are removed and the damage windshield.

(UH-1). They use a sealant that like that, right? Not while the correct hardens like a rock—that windshield sealant is listed in the bird

NSN 8030-00-878-9520 will get Think of the guy who has to take it you 1 gallon of the right water-tight, out again. The plexiglass will crack for pliable, MIL-S-11030, Type 1 sealing sure. Not all windshields get replaced. compound to use when installing a

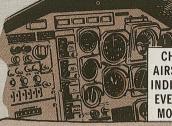




BUT, WINDY ...

PASSED

SORRY, PAL... BUT THE 24-MONTH CHECK IS NEEDED, TOO!



CHECK AIRSPEED INDICATOR EVERY 24 MONTHS

Dear Windy,

Chap 3 of TM 55-1520-210-20 (Sep 71) calls for inspecting the airspeed indicator every 24 months. TM 55-1500-204-25/1 (Apr 70) is referenced for pulling the check.

Chap 10 in the Huey pub also has some inspection poop plus instrument removal and replacement info.

If an instrument passes the inspection in Chap 10, does it also get the 24-month check, Windy?

SP6 D.G. J.



Dear Specialist D.G.J., It sure does!

Your support unit gives the instrument a thorough going over every 24 months, looking for hidden defects.

Organizational types eyeball the instrument during routine inspections and correct any actual defects, by following the poop in Chap 10 of the bird pub.

Whenever you Huey and Cobra mechs install the particle separator on your T-53 engine, always place the V-band coupling in the proper position.

SURE THE

V-BAND

COUPLING

IS IN THE

POSITION

Otherwise, you'll trap moisture that can corrode the magnesium flange on the engine inlet housing. Flange replacement runs up the overhaul tab





somethin' fierce.

So, if you have the new type V-band, put the 3.25-in drainage cut-out at the 6 o'clock position. The locking clamp will be elsewhere.

If you use the old type V-band, which gives you a small gap at the locking clamp, put the clamp at the 6 o'clock position.

Keep the water draining!

COVER ON?

The first chance you Huey mechs get, eyeball the battery setup in the nose of your baby.

Look for a cover on the battery relay. Relays without the cover can mean big trouble. Foreign objects contacting the terminals will cause a spark that can ruin your whole day.

If you need cover, NSN 2925-00-247-0211, you'll find it listed in Figs 249, 250, and 251 of TM 55-1520-210-20P-2 (Apr 74).



5

MOISTURE ON THE HUEY'S

T-53 ENGINE SINLET HOUSING

IS A NO-NO



general practices. But-if you don't rinse off all the cleaner and dry the shaft thoroughly,

you can use dry cleaning solvent, P-D- will get you a 5-gal can of solvent.

lingering spots may corrode the shaft. 680, Type II instead of the cleaning To head off any possible corrosion compound. NSN 6850-00-274-5421

taminating the oil. Change the oil sample to the lab.

THE MOISTURE'S CONTAMINATING

THE OIL ... AND

IF IT ISN'T CHANGED ...

Rapid temperature changes in the when it looks milky, due to water in weather can cause condensation in the oil. If you're in doubt as to whether chopper gear box sight gages, con- the oil is contaminated, send a special

.WE WON' BE ABLE

TO ... MESH

fastbreaking word on a new, tri-level support work to complete the aircraft maintenance system.

being switched to organizational level. A viation Unit Maintenance Direct support and general support (organizational), Aviation In activities are combined. Depot termediate Maintenance (Field) and

Look sharp, air types, for the maintenance picks up some general streamlined trio.

Some direct support chores are In a flying unit you'll wind up with

Aviation Overhaul Maintenance (Depot).

Your new PM duties will be spelled out in changes to the maintenance allocation charts, tool sets and TOE structures for 1st line aircraft . . . the UH-1, AH-1, OH-6A, OH-58A, CH-47, CH-54, OV-1 and U-21.

KEEP CURRENT

Aircraft maintenance officers who have completed the test pilot course at the USA Transportation School can continue to get the latest revisions to their Test Flight Handbook.



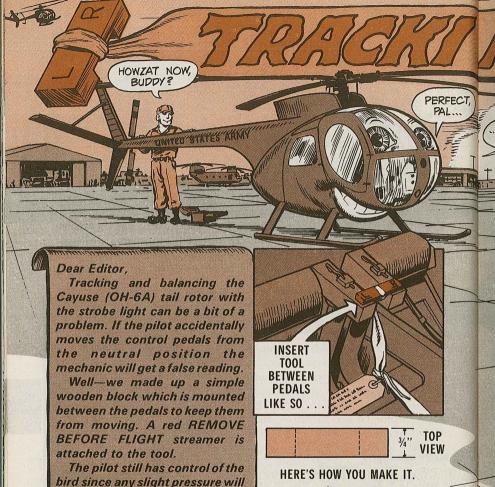
MQAD, AMTD, USATSCH Ft. Eustis, VA 23604

NEW THREE LEVELS OF MAINTENANCE

OLD FOUR LEVELS OF MAINTENANCE

> AVIATION UNIT MAINTENANCE

AVIATION MAINTENANCE



break the block, if necessary. The tool works like a charm. Alfred Morgan

Ft. Eustis, VA

3/4" SIDE 31/8"-

(Ed Note-Righto! The head shed (AVSCOM) approves use of the tool to save time and elbow grease.)

"THANKS TO A SIMPLE WOODEN BLOCK!

WONDER IF THAT FIX WOULD HELP ME TRACK ANY BETTER?

LOOK BEFORE YOU LEAP

The fuel, oil and hydraulic lines that feed your bird stand up to a lot of routine punishment. But they're not strong enough to be used as handholds and footrests!

THEY DON'T MAKE THEM FUEL LINES LIKE THEY USTA!

NEED A HAND-HOLD HERE? . .

Some types have been reaching without looking. They latch on to the line that connects the fuel filter to the fuel control and that's bad news.

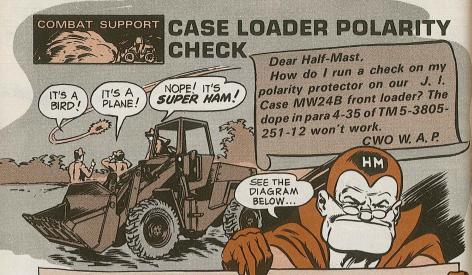
A broken line can give you a fuel leak that'll ruin your whole day!



'Course, any on-the-stick mech wouldn't abuse that line, right? Not when there's a handhold nearby. If necessary, one of the sturdy engine mount braces can also be used as a handhold.







Dear Mr. W.A.P.,

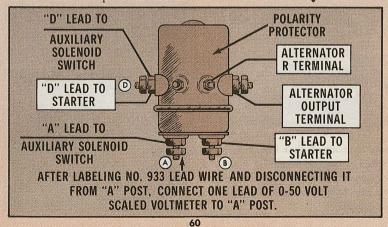
You're right—the TM's partly how:

22. Tag, then disconnect, wires leading you 24 volts reading. from "A" post. Set your voltmeter on 0-50 volt scale, and connect one lead is OK. from it to the "A" post. Ground the

other lead on the chassis.

2. Place the transmission in wrong. It's being corrected. So here's neutral to close the starter safety switch. Close the master switch to ON 1. You follow Fig 4-23, not Fig 4- position. A healthy circuit will give

> The rest of what the TM says there Half-Mast





There's a fix now for balky shifting in these lifters. TB 43-0001-11-1 (Jan 75) tells how to install a grease fitting in the shifter bracket by drilling and tapping a hole in the shaft.

The fitting is NSN 4730-00-050-4203. Once it's in, lube it every 50 hours with GAA. The TM's and LO's are being changed to include this fitting.

SAVE YOUR NECK ... REWORK THE DIPSTICK



You have to crawl into the wheel well on your 10,000-lb Pettibone-Mulliken rough-terrain forklift to check transmission oil, right?

And you have to have to have the engine running, which could get you run over and mashed, right?

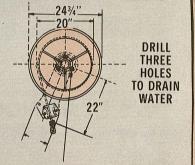
So you need to get the transmission dipstick located in a safer place, right? The word on how to do it is in Para. 3-7 of TB 43-0001-11-1 (Jan 75).



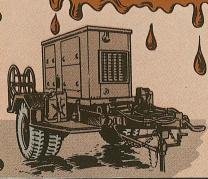
As everybody finds out when he gets issued one of these P&H commercial 25-ton cranes, the tagline wheel collects water and rusts up on vou.

We drilled 3 holes up near the hub on our crane, and that was the end of our corrosion problem.

> James B. Gutmann Fort Belvoir



END OIL MESS ON PU-406/M



If you've changed oil on a PU-406/M, you know the old oil drips on everything under the set. Real messy and a cleanup problem.

But lucky owners of these 30-KW rigs can take heart. Item 2-9 in TROSCOM's EIR Digest TB 43-0001-11-4 (Sep 74) tells how to cut a 1 3/4-in hole in the generator's drip pan to end such woe.

WHERE IS YOUR MICROFICHE?

YOU'RE SO PALE, GERTRUDE -- WHERE DO THEY KEEP YOU?

I'M NOT SURE ... BUT I'D LIKE TO GET INTO THE PLL AREA. THAT'S WHERE THE



Does your outfit have a microfiche reader? That's the machine you PLL guys use to read the AMDF films for just about every unit there are far the right NSN.

supply room, S-4 shop or other odd places.

The best place is in the PLL section.

Why? Supply traffic, that's why. In more supply actions processed in the Some units keep the reader in the PLL area than in other places.

> So, naturally, your microfiche serves best in PLL.

N-1 SENSITIVE ITEMS ONLY

Dear Half-Mast.

Para 2-10d(2) of C2 to AR 710-2 says all sensitive items in the hands of units on property books will be completely inventoried at least monthly.

When this refers to Appendix N, does it mean all of Appendix N, which covers both Sensitive and Pilferable Items? If this is what it means, we'll be doing nothing but inventories.

R. J. M.

Dear R. J. M.,

The reference to Appendix N in para 2-10d(2) just tells you where a list of sensitive items is located. Only the sensitive items in N-1 of Appendix N must be inventoried monthly.







Dear Half-Mast.

If a maintenance service is performed within the 10 per cent variation but not on the day scheduled, how is it recorded on the DD Form 314?

SFC H. H. S.

Dear SFC H. H. S.,

That 10 per cent variance is a grace period. So long as you perform the service within the 10 per cent period, it's the same as performing it on the day scheduled. So, you ink in the symbol and date the service was scheduled, not the date it was actually performed. Half-Mast

RESISTRATION NUMBER

IF YOU DON'T PERFORM THE SCHEDULED MAINTENANCE WITHIN THE 10 PERCENT PERIOD, THEN YOU INK IN THE DATE THE SERVICE WAS ACTUALLY PERFORMED AND RESCHEDULE FROM THAT DATE.

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11///						
	16 8	8 27	20	29	2	31
Ī	18 8	3 27	20	20	20	31

WHO'S QUALIFYING OFFICIAL

I have carefully researched AR Dear Half-Mast, 600-55 and TM 21-300 to find out who signs as "Qualifying Official" on the reverse side of the operator's permit, Standard Form 46 for tactical or combat vehicles. Neither pub has the Dear Mr. D.S.,

As spelled out in para 5-4 of AR 58-1, Joint Procedures for Management of Administrative Use Motor Vehicles (May 67), the qualifying official who signs the back of SF 46 is the ex-

I know both AR 600-55 and TM 21 300 should se

RICTIONS		CW3 D. S	1			TH' HEAD SHED RESP
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OTHER RE	ECORDS (OPTI	IONAL)	- JAN 1			AR 58-
•			TRY			EXAMINER SIGNS HERE!



Foot-9n-Mouth?

If "pounds-feet" and "foot-pounds" the way you tell one from the other:

POUNDS-FEET (lb-ft)—measures turning power, as applied to torque a nut.

FOOT-POUNDS energy, such as that used when falling off a log!

Magneto Switch For MS330 Engine

If vou've been stymied getting a magneto for your Continental MS330 engine, here's the way out-

Magneto, NSN 2920-00-997-4456 is the one to request. It'll fit better than the old one and give you back the use of vour Galion road roller or Carver centrifugal POL pump.

Fallout Predictors

If you and your radiological fallout area predictor ABC-M5A2 are going to do a job together, forget about the on its use. Change the reference on your tion, which superseded TM 3-210.

1/4-ton gob Now DS

Unless you've got special authorizaget you tongue-tied or confused, here's tion to install-replace the engine cylinder head and gasket on the TM-218-series 1/4-ton vehicles, you keep hands off the job. The Maintenance Allocation Chart in Ch 3 (Oct 74), TM 9-(ft-lb)—measures 2320-218-20, shows this's now a job for direct support. If you've got the OK. you'll find some helpful tips in PS 267. page 14, "Head(ache) Gasket".

No Oil, Please!

The baseplate socket, non-metallic washers, disk and ball socket on your 81-MM's M3 base plate get a light coat of GAA grease-MIL-G-10924. No oil, p-u-l-e-e-s-e! Para 3-14a(1)2 in your M29A1 mortar TM 9-1015-200-12 (Apr 71) has the straight poop.

Now 'Ear This!

P-s-s-t! M167 Towed Vulcaneers, Did you hear the word about a better hearing aid to catch the doppler tone during the clutter lock-on test? Para 4-7d, TB 43-0001-36-4 (Oct 74) ARMCOM reference to TM 3-210 for instructions EIR Digest, says it loud and clear. It suggests using the H251/U headset. predictor to FM 3-22, Fallout Predic- NSN 5963-00-043-3460, to improve your hearing.

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

