

Issue 228

PS

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November

THE PREVENTIVE MAINTENANCE MONTHLY

WOULDN'T THE ARMY
BE COMING ... ? (GASP)
WELL, WE'VE GOT THEM.
DIRTY FINGERETS!

NO WON'T
THE ARMY
PROTECTION
IS TOO MUCH!
KILL THOSE
DIRTY
FINGERETS...

The Army is joining you—in
the battle against air pollution.
It's everybody's fight.
Commanders ...
maintenance officers ...
mechanics ...
equipment operators.

The enemy? Anything that
poisons our air.

See next page ...

Fighting Air Pollution

EVERYBODY'S THING



The 'big guns' are coming in on the ground, most common in four — engine exhaust, carbon monoxide ... undiluted hydrocarbons ... oxides of nitrogen.

How much sleep is all there's no one
definition and no exact figure.

But everyone can lend a hand in reducing air pollution, says the agency's lead author of the book—Tina Brown, 402-357-7111. Air Pollution Control Procedures For Tidal And Corral Vessels. The TCA's guide on keeping your vessel in top condition should be



Three-legged attack on air pollution—
a fact, not mind, message.

Every turbine knows that the best way to cripple an enemy is to cut his supply line. The blow always has started.

Air pollution starts as soon as you start your engine. Usually, a big engine takes more fuel than a smaller engine, so the big engine gives off more exhaust gas. And this exhaust keeps pouring out as long as the engine is running.

APRIL 1980

1. Was ist das Ziel der Studie?



1. **THEORY**
 2. **EXPERIMENT**
 3. **CONCLUSION**

They may dispatch a 24-hour team to check out a few suppliers when a 3-quarter will do the job. Or maybe a 10-hour will do the trick. If you have to think, you're taking longer.

It's just a matter of finding the right person for the job.

And how about your trunk? Will it leave sitting empty for a half hour or more while you wait your turn at the pickup point? The best waste is too much, but your engine is poisoning the air for no good reason. So shut down—unless the FMH for your vehicle says you're allowed to keep 'er running during those waits.



with your hands. If they're not too sore, and with your legs, feet and knees tucked in. At the end, you're right on top of it. You're the first to know when your back's not sitting right. Every-



Playing around with the gas pedal is just as fun. When you're cruising, drop

the most, keep steady foot pressure on the pedal. When you're stopped for a traffic light—or at a red crossing—keep your foot off the pedal. Let the natural air brake work for you. More

FREE BIRTH ANNOUNCEMENT
 (SEE PAGE 10)

...AND POLLUTION IN
EVERYBODY'S BREATHING
SPACE. And, FYI, THE AIR
YOU BREATHE.

[illegible]



Medical experts seem to agree pretty well that pain of asprin is usually the best pain killer. But doesn't one headache asprin won't help ... Your unit's shortage of qualified automotive mechanics.

You've got more broken asprins in your shop, but—let me reason it another—they don't have the know-how. They don't have the MOE.

So these mechanics—who're not-mechanics—just stand around—bored. Or you hand 'em simple little jobs that won't get them—or the equipment—into trouble. ... and your MEE qualified mechanics carry the load, trying to keep up with repairs and periodic services. ...

... and your CO has a wallopin' headache ...
So what's the happenin' in OJT—On Job Training?

OJT WITH A PROGRAM. True, a handful of experienced mechanics does not make an OJT program. Good instruction calls for a system—a framework—guidelines. That's what makes a "program".

All the pieces are available—then for the asking—to set up a solid automotive mechanic OJT program. And a good one.

With all the jobs and other training material offered, this OJT can be designed to meet your unit's exact needs. ...

—Drawing from scratch, making mechanics out of guys who don't know the difference between a hot wrench and an open-end wrench.

—Drawing helicopter mechanics out of automotive mechanics.

—Refining automotive mechanics who've got rusty while on some other duty.



SCORE A-PLenty!—A guideline of guidelines is Army Institute Schedule 7-41830, MOS Technical Training and Instructor Training of Wheel Vehicle Mechanic MOS 65830. It's found in DA Pam 758.1.

Another good one is Abolished 39-6 (Jan 65), Organizational Automotive Maintenance Unit Motor Maintenance Personnel.

Since there are the patterns for the full-scale formal school training programs, they may be a bit too heavy for unit OJT, but you can make 'em down to fit. And they list a lot of jobs and training aids that you can use in OJT.

Designed especially for OJT, though, and a good training piece is DA Pam 758-25-1 (Nov 58, Organizational Mechanic Repairman Course, Technical And Support Vehicles, Truck Utility, 1/4-Ton, 4x4, M19). It's found in DA Pam 193.1. There's also a 2 and a 3. Check Dave 651 in this series, covering the 650's. You don't track neither M145 1-ton wrecker.

OFF TO THE MOVIES!—Your course can be broadened and deepened with a whole bunch of movies offered in DA Pam 106-1 (May 65), the Army motion picture index.

There's TF's training film showing how to use all sorts of motor-wrenches, pliers and screwdrivers, chains, hammers—and that of low-voltage-circuit work.

And there's TF's on "Baked Electrical Systems," "Engine Tuning," "The Fuel System," "Springs And Shock Absorbers."

There's even a training film (OJT) that "may be used for orientation and up-to-the-scope"—BF 5-1, Career Reports—Motor Mechanic. This shows the career opportunities for automotive mechanics.

With this brightening the world for mechanic's eye on the horizon, he may be interested in helping himself by signing up for this course listed in DA Pam 758-50 w/Ch 1 thru 15. Announcement of Army Correspondence Courses.

ORD 16001, Introduction to Wheel Vehicle Maintenance.





Demounting a tire the wrong way will cost you—time, stress and sleep. It may even cost you dough ... if you damage the tire, rim or rim with a sharp object, or some other "unintentional cost."

Teamed-up with your tire demounter (STON 478-685-2562) from your regional maintenance shop set, you can safely demount a tire in nothing flat.

Your demounter handles tires ranging in size from 7.00-20 thru 14.00-22.

That covers military type tires and air equipment ranging from 1/2 ton trucks through 20,000 vehicles and regular size as standard commercial vehicles. Tire sizes are listed in your vehicle's - 20 or - 22 TR, or in the manufacturer's manual.

Learn to use the demounter right and it'll do the heavy work for you.

Demounters may differ a bit in design, but they all work the same—and normally they all have 3 main components:



A base with a tapered rim - it may be rim-shaped or rim-shaped.

A wheel that supports the rim and the wheel.

A screw that holds the rim and the base, and also forms the handle, from above.



The better your demounter the shorter the time, less a greater risk, and a more tapered gripping edge.

Your shop'll normally keep the demounter assembled.



4. Sweep the top handle into the front and then the front side until the lights about half way down the shaft.



5. Rotate the handle back on the axle and continue turning the handle until the shaft is all on the tire.



6. Place each shoe on its gripping edge into, above the tire head and pointing straight to the tire. Insert the shoes so they're not over the valve.



7. Continue turning the handle until you can't around the tire for the back of each shoe (you'll find a bumper like this, however then you feel not well do).



8. If the shoes don't have a mark to take the shoes, use your fingers carefully at the head of the shoe.



9. When the shoes are on the tire head, it's time to get it if it's not pointing the head and you'll be clamping the tire to the tire instead of pointing it up.



10. If a shoe comes about off on the handle, push the tire and push the shoe down the head. With the shoe in place, continue turning the handle and turning the shoes. As you turn you'll break the tire head, and you'll see what that side of the tire.



11. Now, remove the shoes and get the top of the shoe. Remove the shoe and get the top of the shoe.

12. Take the wheel off the motorcycle and remove the tire's head with the handle. Use the handle (the handle) to remove the tire head. The handle is the handle of the head into the handle, and push them on the handle. The handle is the handle of the head to the tire. Take it away—remove the handle and the handle.



13. Turn the wheel over on the back of the motorcycle. The handle is the handle of the handle, and the handle is the handle of the handle. The handle is the handle of the handle.



14. Now, remove the shoes and get the top of the shoe. Remove the shoe and get the top of the shoe.



15. Now, remove the shoes and get the top of the shoe. Remove the shoe and get the top of the shoe.



16. Now, remove the shoes and get the top of the shoe. Remove the shoe and get the top of the shoe.

HELP YOUR DISMOUNTER

To make the job easier, break some tire-dismounting lube (GSR 2640-241-0711) along the tire bead and rim flange, before you apply the pressure. See page 2-20, TM 9-2610-200-20 (Jan 71).

Be most generous with the lube if a tire's non-marked or milbore-looking, and let the lube soak in for awhile before dismounting the tire.

Use the dismounter on a hard surface. In the field try for a board or whatever hard surface you can swing. The floor'll keep the base and the shaft from digging into the ground.



Clean the dismounter before you make it snug, and lube its threads with GSR.

NEVER, LIKE NEVER—use an extension on the dismounter handle. The shaft is made to take the force you can exert with its handle. If you increase the leverage you'll bend the shaft, or tear up its threads.



INFLATING AIR

If there's no tire pump handy for inflating your tires, you can also use the dismounter to slowly tire-inflating while you inflate. Just screw the dismounter top down on the 8 shaft and I back down the dog nut. Keep the shaft sitting there until you've done inflating.



THE IRONS



Never keep sharp or pointed tools in your tire-changing area. They're tire and rim killers. Use only the authorized tire irons in your tool kit. Use those tools with care—always, but especially when you're breaking or holding the bead, or working with the lock-ring. If you wreck the bead the tire's done for. If you damage the lock-ring you're done for . . . It's the part that holds your tire on the rim.

THIRD STEP

Your tire-tread depth gauge (PSN 5114-015-5000) is another real important tire-measuring tool. It tells you when to demand tires for rebuilds, too. See Chap. 3, para 3-1b, TM 9-3440-500-10.

The gauge folds up for easy storing in your pocket while you're working tires. To open it pull the contact bar out to form a T. Before you open it make sure the plunger tip is pulled in all the way—or else you'll bend it.

Minimum tread on a serviceable military-tread tire is 1/8 in for 4/32 ... since the depth gauge reads in thirty-seconds of an inch. To use the gauge on military tires:

—Measure the distance from the tire's crown—or centerline, (1/4 or 1/2 inches, depending on the tire size), and take your tread reading at that point ... on each side of the tire.

FOR EXAMPLE:

TREAD SIZE	FROM CENTERLINE/ TREAD CASE WT.
700-16	1/4"
800-16	1/4"
825-16	1/4"
900-16	1/4"
1000-16	1/2"
1300-20	1/2"
1400-20	1/2"

—Place the contact bar so it's parallel with the tire's centerline. Press the plunger down until its tip touches the center of the tread groove. Read the tread depth on the gauge.

Check the tread at 3 evenly spaced points around the tire. Start at the valve stem on a mounted tire, or mark your starting point on an unmounted tire.

On commercial-type (passenger and truck) tires, minimum serviceable tread is 1/16 in for 2/32 on gages. On these tires, too, measure the tread at 3 evenly spaced points—or close as possible to the tread centerline. Bridge the tread groove with the contact bar and press the plunger into the center of the groove to get your reading.



DON'T WORRY YOUR
BATTERY. IT'S NOT
THE WRONG POSTS.
BATTERIES SHOULD FIT LIKE
CAP YOUR BATTERY'S
AND ELECTRICAL CABLES.

STAMP OUT



THE LIST OF VICTIMS: radio sets, vehicle chameleons, generators and functioning radiolampoperating electrical systems, other communication equipments... the list is endless.

And all because some guy in a hurry didn't take the trouble to put a battery cable on the right post.

So let's look at the batteries which lead all wrong polarity.

In the first place, the battery posts are different in which. The positive or + post is almost always wider. It's usually identified with the + or a "P" stamped into the top.

THE NARROWER NEGATIVE POST is usually identified with a - sign or an "N" stamped into it. If the + or - sign isn't there, or banged up, just remember that the wider post is for the positive lead.

EXERCISE
AND...



Now for the leads themselves.

The positive lead terminal, naturally, would be wider if it's been used on a battery before. Some are larger right from the factory.

The positive lead is sometimes dabbled with red paint... or you run into it for quick identification.



THE POSITIVE LEAD always ends up at the starter, either going directly from the battery to the starter, or through a solenoid to the starter.

FINISH POLARITY



The negative lead is grounded directly from the battery post to a bolt on the engine or a bolt on the chassis frame. (The only exception to this is the PLACER 400 14 generators (most under \$1M \$17942. They have a positive ground polarity.)



You can identify your cables by using label, battery cable lead P/N 7096-477-7711 for Negative, and P/N 7096-477-1114 for Post etc.



Remember these points... and even if someone reverses the position of the poles when they put in the battery you can't go wrong. Put the battery in the way you take it out. Never touched cables... and a reverse job on equipment from a hurried cable connection.

FALCON STEER BIND

HEY,
MAY
BE YOUR
DRIVING
COULD BE
COULDS!

Hearing a clicking noise means your steering gear has when you turn the wheel on your 1970 Falcon?

It could lead to more if just a tie-rod is may mean no bind on you and make for hard steering.

The noise is caused by a chipping off of the worm gear. Who knows what a chip in the gear might do with a steering operation? However, you've heard people talking the steering at the first sign of trouble.

LOCK CARBURETOR SCREWS



Chevrolet 1/2-ton pickups—especially '68/'69 models—may need their air cleaner bracket mounting screws locked. Other wise the screws may work out, drop down the carb into the manifold ... and on into the engine.

The Sealing and Locking Compound, FEN 8070-081-2386—a drop on each screw holding the air cleaner mounting bracket to the carburetor throat.

No jumper wire is used when you're pulling a breaker point resistance test with your low-voltage circuit tester. Pay no mind to that jumper wire shown in Test 3, Fig 3-26, T9 9-1528-118-00 w/Ch 1 (Jan '70), for the MINI-series 1/2-ton vehicles.

TAKE IT OUT



SPRING U-BOLTS LOOSE?



Why learn the hard way? Save yourself trouble—learn by somebody else's experience.

It seems you'd be real smart to keep a close eye on the front spring U-bolts of your new MM90-series 5-ton truck. You could wind up with a busted axle. Or, worse, your steering might go out on you.

First, check the front spring and for any signs of former bounce or axle shifting.

This could mean the alignment pins on the axle have sheared—and that means you get 'em replaced quick!



Then slip your torque wrench on those U-bolts and pour on 150-400 lbs-ft torque to make sure they're right.

Make this inspection and torque-check again when your MM90 has rolled up its first 1,000 miles. And again at 3,000, 6,000, 9,000 and 12,000 miles. And every time you pull the "S" service there-
after.

5/8 CHAIN COVER?

Need a new tailgate chain cover for your MT15 1/2-ton truck? Your support can make all you need from Buck, Adams, FEN 8005-170-0900—same as they do for any other truck. They can use your 1/2's old rubber cover for a pattern.



Before you send the vehicle elsewhere, FEN 2800-900-2485, or the manufacturer for repair, make sure it's not eligible for free replacement under the vehicle warranty. Manufacturer repairs at a cost of \$50 each are for use after the warranty expires. Vehicle log records should show warranty dates, including dates of alternator replacements on DA 2408-30. (As

stated in TM 34-750 guidelines for this form, all components on which usage data is required should be listed. So you record all components and replacements covered by warranty). Warranties cover the alternator (whether new or factory repaired) for 2 years or 6000 vehicle miles. So don't "buy" that alternator twice. When it's covered by warranty file a claim on DA 2407.

FACE-WASH 1/4-TON

IT'S CLEARING COMPOUND, UNMATCHED FOR ROAD MAINTENANCE. INSTANT SETUP AND QUICK CLEARING. GET FEN 6850-444-3376 AND BE CAREFUL NOT TO ADD TOO MUCH WATER TO MIXTURE.

From near freeze to -30°, use 2 part fluid, 2 parts water, for wet sand, like -10° use 1 fluid, 1 water. Add to 2 parts.

IF THE COAT CHIPS



Don't get shook on that squeak coming over the floorpan interior in your M141 1½-ton water-tank trailers. It's been known to chip and get a bit shabby looking, but don't worry about it. The coat was put on to give the floorpan time to age so it wouldn't affect the seal of the water. After 3 months the coat has done its job. Just flush out the chips if they show up loose in the tank. You don't have to put on another coat.

M141 SEAT PIN

Now you can get seat hold-down pins—the real thing—for your M141-series 1½-ton truck. PSN 1148-471-1458 brings the spring-type pin, and PSN 4018-273-2983 is for a 6-in piece of chain.

I TOLD YOU
WHAT I WOULD
DO IF MORGAN TOLD
THE WHOLE
FIRM THAT
I WAS A
SUCK UP.



MEETS GAS FILL

DRIP BRINGS BIG BILL

A LITTLE
DROPS ADDS UP
TO A LOT!

A loose fuel filler pipe hose clamp on your M729 15-ton ambulance is bad news.

Any drip from that nozzle is all you close to the near body burner unit.

But the lucky thing is, you can check it out easy. Look just past the top of your left rear tire. If you don't see moisture on the body joint, make sure—rub it with your finger for dampness.

Then try to wiggle the clamps. Any movement is too much.

Last, clean the burner and make sure there's no dirt near the burner. Scan and smell carefully for drip coming from the flow cracks.

The whole set-up needs to get a good lookover every time you come back from a drive in the backwoods. Report any trouble fastest—a gas-line drip is No. 10.

FIGURE
CHECK FOR
MOISTURE

CLAMP
TIGHT!

FIGURE
CHECK FOR
DRIps

AMBULANCE LIGHT

THE LIGHTS SHOW
THE FIVE FOR THE
AMBULANCE LIGHT.
NO. 10

Here's a couple of truck numbers for the magical light in your M729 15-ton ambulance. You needn't buy the whole expensive Pigeon. P/N 6120-50-0440 gets the blue lens. P/N 6120-175-1421 brings a new sealed-beam lamp.

DROPSIDE BODY FSN'S

THINK YOU'VE GOT YOUR 24-TON BOMB ON D.S. - FOR BOMBING AND CARRYING THE BOMBERS? YOU BETTER!



ITEM	FSN OR P/N
Drop Body Assembly (with sides)	2540-991-1108
Door, tailgate	2515-717-1105
Pin, front rock locking	2510-930-9151
Chain/lock pin Assembly (gate)	2510-930-8112
Tailgate	2510-858-3415
Right side panel	2510-348-4038
Left side panel	2510-830-3714
Side rock Assembly	2510-124-1197
Side rock gate Assembly	2510-830-7778
Front rock Assembly	P/N 13611612
Wings (incl. rock-tailgate bolt)	P/N NS 5431-124
Bolter	2510-951-7108
Collar Pin	2515-830-1402

Your big pain is less pain—slide 'em, say, in the glove box, or water-pipe box, but stick to an FSN.

CABLES FOR M109 VAN

Do you need a power cable to run from a 18 KWH generator to your M109 24-ton ship van truck?

F42P-4912-100-1000 gives you a 7-ft job.

Oh, if that's not long enough to reach, get a 25-footer under F42P-4912-100-1004. This one hooks up to your 7-footer and then to the van.

NO LUBE NEEDED



Never mind if you own M55A1s: Your collar M44A2-series 24-ton truck has no grease fitting on the tow pins. You don't have to grease it. Supersides it whenever they disassemble the pins.



HELPFUL HANDBOOK

ON PAINFULLY PUZZLING PROBLEMS

FIREPOWER

PROBLEMS

The scope lock on your manual shooting hand needs to likely to not let water seep through at the junction of the scope lock and shooting mechanism.



Don't sand on scope cylinder piston makes them operate hard, and damages the tube.



The scope control handle is made out of light metal and when it breaks off you may have a time getting it welded back on.



The supply and return lines on the scope cylinder lock alike but if you connect them wrong your scope will lower when you try to raise it and raise when you try to lower it.



The 4 bracket bolts for the counter balance gas should off during firing.



SOLUTIONS

Cut the lock wire and make use the 2 access screws covering the air-vent holes. Again about 1/4 inch of hydraulic oil (MIL-H-6800 type only) into the holes and then replace and lockwire the access screws. Do this often and you won't have any problem with the



scope lock making no shifting, even in high temperatures or long periods of operation.

Protect each piston with a pair of cloth sandbags and then screw together at their ends. Also, use up some kind of padding for safety when scope on this area when getting on or off the vehicle.



Use a crack pin instead. That way you will have a stronger handle and a maintenance world. (This is an emergency solution.)



Identify the lines to date of paint, colored tape, whatever before you disconnect them. That way you can get them back together right.



Check often during firing, keep the bolts tight and greased. Replace as needed.



CLAYMORE SAFETY TIPS

Your M16A1 Claymore mines are not likely to go ballroom unless you are 'm off with the MOS firing device. Caution there are a few exceptions and you should know about them to keep your insurance even low.

ELECTRICAL SHOCK



Even if you have the firing line either capped or attached to an M11, you should have! It's not all that safe during an electrical storm. A lightning flash could well blow your mine. So, remember, stay away from the front and sides of mines during electrical storms. They are not likely to blow but it could happen.

EXPLODE AWAY

You can get a dud—a mine that won't blow when you want to—because a short circuit caused by exposed wires. You have to use under-plans and handle—but if you nick the insulation, make sure you tape it up afterwards. Never leave bare wire exposed in the firing line.

After you make a splice, tape it, leaving a few inches above the splice and making a few inches below it. Then check it carefully to make sure you have good insulation.

HIGH FREQUENCY WAVES

If you have to put your mine in a place where they'll be exposed to a lot of high-frequency waves, like from powerful radios or radars, use one of the non-electric firing systems FM 1-21 and TM 5-1345-200 all you shoot.



SAFETY TIPS

One other thing to remember: Tying the firing line to the leg of the mine is dangerous because it could upset or repulsion the mine. Page 37 of TM 5-1345-200 which shows that setup has been superseded by page 6 of Ch. 1 illustrating the latest way to do it. Tape the wire to a stake so the mine will not be affected if somebody trips over the wire.



NEVER LOSE YOUR HEAD

One of the NEVER warnings for your portable mine detector is never allow the detector head to drop or rest on the ground while you're searching for mines. Always keep the detector head parallel to the ground during your search.

It'll be easier for you to do that if you use the new cap and short handle assembly provided by Ch. 1 (Apr '90 in TM 5-1345-200-11P). They'll make the detector head stronger and easier to manage. PAM 6666-99-9638 will give you the cap, and PAM 6666-211-2901 is for the short handle assembly.

Replace both the cap and the short handle assembly at the same time. They're not interchangeable with the old parts.

If you have the Oregon Products Model MD-4M, order a coupling assembly, PAM 6666-99-1206, or go with that handle assembly.



YOUR PORTABLE FLAME-THROWER ...

A COUPLE OF HOT TIPS



Your MDA-7 portable flame-thrower must be cleaned soonest after the firing's over or you're in for a heap of trouble.

The guts of the gun—the liner and water springs of the ignition pin, the needle valve and the barrel insulator—will corrode real fast. When that happens you can bet the gun won't fire the next time. So always pull the after-operation cleaning called for in para 5-6, TM 5-104-204-1-2 (Nov-65).



If you're mixing flame-thrower fuel by hand, make sure your wood paddle is clean and splinter-free. Never hit the paddle on the mixing container. Chips or splinters from the paddle can be forced into the gun group and jam the needle valve—and the gun won't fire.

Always use the hardest wood you can find to make your paddle, and check the paddle often as you use, to make sure it's not chipping or splintering.

MTJ-SERIES COMPUTER TIP

If the ballistic computer in your M105 or M109 tank gets out of whack, the very best maintenance you can give it is to switch computer power to the OFF position and leave it lay there for your supplier to fix. They are the dudes with the tools from the ambush. If you try to fix it you might make it worse.



DECON FILL-UP

Your M1 truck-mounted decon or your M13A1 skid-mounted decon must always have the cleanest water you can get. When you fill your decon from a clear stream, pond, or lake remember to use a bucket... otherwise, the suction hose will take in silt, mud, and grit when it hits bottom. When the muddy water's worked under pressure it'll damage your decon's pump, valves, and nozzles.



**TRUCK
CARE**



Just submerge the bucket (a clean 5-gallon can, empty 375 decon can, or similar equivalent) so it's covered by at least 2 inches of water. Put the suction-hose foot-valve inside the container, and make sure it stays there while you're filling up.

Cuddly water will also damage and plug up the heating tubes in the decon's M1 heater. So, as an extra caution, when you're done using the equipment, always let the heater drain completely when you disconnect it from the decon.



Water handling info for the M1 is covered in TM 5-4256-285-11 (Mar 81), and the filling scoop for the M13A1 is in TM 5-4256-285-12 (May 71).

STICKY STUFF

Does your vehicle-mounted hand saw for the M11 decon bracket disappear from your car-truck?

Well, you can find the hand saw, say. Leave the vehicle holes empty. Store the bracket-mounting hardware in the supply room along with the apparatus, and the bracket.

TM 754512-1 (Jun 71), para 41, OK's the storage change for the hardware.

Also, if the waterproof tape, PAN



4115-417-1541, is used in your neck of the woods, the TB says it's OK to use any waterproof tape, as long as it's dark colored—for the rattle-flags it's called for in para 4-13, TM 5-4256-294-15 (Oct 69).

YOUR M11 DECON

It's easy to find all the ways you need M11 possible decons. But finding the less simple needs is a must—especially checking in for leaks, broken, missing or loose parts, rust corrosion and pitting.



CHECK THESE
AREAS ON
YOUR M11



The bracket, packaged with the M11, may have either a metal strap or a nylon strap. The rigid metal strap often gets damaged as when the bracket is empty. The bracket can be strengthened and used—as long as it's not twisted. If it's broken, replace it. The bracket with the nylon strap will last longer, keep the empty more flexible, more compact. And, isn't the one you'll get as a replacement. It's covered by the same FSN as the old one, FSN 4208-770-1340.

M11 SAFETY

The M11's for decontaminating equipment only. Never use it on your clothing, or on friendly neighbors. Wear your protective mask when you use the M11, and if D52 gets on your skin blue is off and wash with water.

Never use the decon as a fire extinguisher, and keep it away from flames. Its battery will burn.

You get 2 nitrogen cylinders for the M11, but you use only 1 cylinder to pressurize it. If 1 cylinder doesn't empty the M11, then use the other one—and shake the M11 good before using it.

Shake the M11 after use, and use a rag to wipe D52 from outside the container. Check the contamination rag according to local SOP.

The M11 is covered by TM 3-428-204 (5-Oct-80) and its Ch 1 (Sep-79).

And, be sure you have Ch 1. It has a new lead wire and (FSN 1540-015-0011), a new preformed packing for the container (FSN 1540-100-0004), and corrosion inhibitor (FSN 6850-001-2100), for use inside the container, when you store the M11 empty.



SUFFERIN' DISPERSER HANG-UP?

DON'T WORRY
HOW LARGE BUT
I THINK THE GUY
A. MEYER CAN HANDLE IT



Count on it and rely on it.

Things aren't as bad as they look with the spark plug of the MWD size control agent disperser.

If the standard spark plug, FSN 2510-007-7011, that's listed in T84 9-1040-104-10P (Rev. 68) doesn't fit, it means you've got the latest model disperser.

What you need then is the conventional-type spark plug FSN 2510-045-0000.

See, things get tangled when the conventional plug dropped in on the same, what with adapters, reversed and conventional plugs and mismatched connectors.

But don't let the jumble get your already busy on the disperser and you're in business.

IF THIS FUSE
DOESN'T FIT...
THE NEXT
ONE

FSN 2510-007-7011



FSN 2510-104-10P

M9 DECON CHECK-UP



Test M9 decon suffering from one of these ailments: water reflecting in the storage chest and lower clutch splash shield; mud and water in the friction clutch assembly; having trouble lubricating the upper clutch, or backing up the M1 water heater?

MWD 5-4150.305.11/1 (Apr 67), will cure these ailments. Check your log book for an entry on DA Form 1408-5. If the MWD hasn't been applied, format and a DA Form 7487 to support. If it has been applied and an entry made, record and report according to paragraph 6-14.51 of T84 9B-750.

GUARD YOUR ASPECTS



After a big break!

You can get one that if you operate an air compressor without its drive-belt guard.

A loose or worn belt could let go and whip around your neck.

It also wouldn't take much for a cracked flywheel to take off and knock you on the noggin.

Then, too, you can imagine what would happen if an arm or leg got caught in a spinning belt or flywheel.

So don't take chances.

Never operate an air compressor with the belt guard off.

WHEN THEY GOTTA GO, THEY'LL GO



DON'T NEGLECT
YOUR OLDS ON AIR
COMPRESSORS. CHECK
THEM REGULARLY —
AND THEN

1. Inspect 'em for leaks, cracks, loose mounts and dirt, rusted and cracked conditions.
2. Check for wear in driving shafts and drive shafts.
3. See that they have freedom of movement.
4. Be sure they're doing the job of relieving air pressure. Test the equipment out and fill the air fill taps.
5. Replace 'em if they're defective — now!





THE RETURN OF THE GLITCH.

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398</
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Deep in the dark
vicinity of the Coast
diverging alps, the
great grand-nephew of
New Doctor Frank in-
stalls (twice removed)
SMILES, his master
of bio-chemistry,
cosmo-surgery, math-
pathology and clerical
art... IS ABOUT TO
COME TO LIFE IT

1998-1999
 2000-2001
 2002-2003

1997-1998: 1997-1998
 1998-1999: 1998-1999
 1999-2000: 1999-2000
 2000-2001: 2000-2001

100%

THE UNIVERSITY OF CHICAGO
 5408 S. UNIVERSITY AVE.
 CHICAGO, ILL. 60637







Dope Sheet



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

IF YOU WANT TO DISPLAY THIS ADVERTISING ON YOUR COLLATERAL BOARD, OPEN STAPLES, LET IT GO! AND FOR US,







GOOD MORNING,
BOB! ...
NOW... DOWN TO THE
CAR, BOB! THE
SIGNAL IS
ELECTRONIC! ...



GLACK!
GLACK... come...
down... to...
ground... the...?



Two hours later,
Bob... didn't... sleep,
back and...?

ALL DONE,
NOW THE
ACTUAL
JOB.



AND... YOUR...
NO... LATER... THE
SIGNAL... ON... THE
SIDE...
GLACK! COME HERE
AND... SEE...?



AGHH!



GLACK! COME
DOWN... NOW?



DON'T RUN! ...
GLACK, YOU
NEVER MAKE
UNCONTROLLED
PEOPLE.



And so it is a
... thing...
... thing...
... thing...
... thing...
... thing...
... thing...
... thing...
... thing...
... thing...
... thing...

THESE WERE NAME,
I WOULD BE AMAZING
THIS WILL IN SOME
WAYS THAT HELP YOU
NAME THE REASONING
BUT NOT THE REASONING
ON PAGE THREE BY
NEXT EXPERIMENT!

MOVE RIGHT, SEARCHLIGHT

2-4-5-7 men team:
moving your AN/TTS-5
searchlight, it may tip
over backwards.

NO MANUAL
CARRY
A MILE

Handmoving the TVS-5 for any considerable distance is tricky and risky so never move it more than necessary.

1. But if you gotta—
1.4-1 team: 2 men should handle the move.
2. Before starting, raise the MX-700 searchlight about a foot or so upwards, so that the transformer is directly over the wheel axle of the Y-40 roller.
3. The cooling eye of the Y-40 should be raised more than 3 feet above ground level.



Operating your AN/TTS-5 searchlight with the front door open can cause the cooling system to overheat and damage the searchlight. It can even cause skin and eye injury. So—close it.

CRACKS 'N' FACTS

It pays to be careful when you tighten the 4 hold-down screws in the MX-600/VBC matching unit—maximum of 100 inch pounds.

Overtightening causes hairline cracks in the plastic case and a quick way to detect repair.

The laser depot gets the MX-600 with the hairlines, the laser change shouldn't be to save the laser mechanism from crippling corrosion.



HERE'RE A
COUPLE TIPS
TO KEEP
ME HAPPY!

Keep paint away!

Chemicals in the paint do their dirty job on the plastic and also cause hairline splits which give moisture a blast in the inside of the matching unit.



HOT-TIME FREEZING



Five sections AB-11/TBC-1 freezing together can give you fits when you disassemble the mast assembly ... especially in hot, humid climates.

The silicone grease (FSN 9150-250-1078, 8-oz tub) on the mating ends of the AB-11 sections, all the way down to the section that fits into the AB-10/U mast base assembly.

This gives you a better chance in making the disassembly, and the silicone lubrication won't interfere with antenna performance on the EC-120 antenna equipment.

You'll find the word on page 15, TR 750-911-1 (New TR, Equipment Improvement Report and Maintenance Digest).



THE SCREWS LIGHTLY

Never over-tighten the antenna mounting screws!

Which ones? The screws that hold antenna dipole AT-412/TBC and AT-413/TBC to the AT-414/TBC reflector.

Too tight a fit can bring up the mounting screws—and also damage or loosen the mating nuts welded to the reflector.

The screws are not supply items, so support will have to improve or local purchase to replace 'em. That means downtime, and that won't mean.



do much for your AN/TBC-24 radio terminal set.

And all you really want to do is snug the screws in just enough to move off antenna wind interference downwind, and that won't mean.



If you're used to a free-running kitchen's rating knob on the RT-324 receiver-amplifier, it's alright.

But, some RT-324's are made with a built-in stop.

If you're never run into the fixed-stop variety ... *man*, you could go through the dial position pit the first time you turn a fixed-stop knob. Which means: Easy on the turns.

The RT-345, push-button partner of the RT-324, has no rating-knob worries. These are free-wheeling knobs.

A SCREWED-UP MOUNT

Screws are meant to hold tight in your AM/VOC-24 radio assembly if they hold on too tight, that's trouble.

Like the 6 screws that hold the back panel of the MT-116A/U used with the RT-325. The screw-hole bakelite is hard metal that bangs on hard.

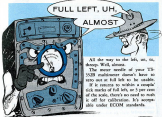
So, when you remove the screws, you're liable to drag threads off the bakelite or lose the screw threads.

If you're getting this kind of hang-up, stop everything! Douse the screw holes with a few drops of penetrating oil.

This oughta smooth the way and head off most of the damage from a too-tight screw.



FULL LEFT. UH,
ALMOST



All the way to the left, uh, uh, stop. Well, almost.

The meter needle of your TR-502 multimeter doesn't have to zero out at full left to be usable.

If it returns to within a couple tick marks of full left, or 5 per cent of the scale, there's no need to make it off for calibration. It's acceptable under ECOM standards.



STOW IT
BELOW IT

HALP!

Wouldn't believe it? Some troops would sacrifice a \$58 vacuum tube, and more, to save 3 minutes work in getting a piece of common equipment ready for transit.

THE POINT: If you don't stow the leads of the ME-502/U multimeter below the back compartment cover, it's almost a sure bet you'll bash the AC probe and ruin the tube inside it... or you'll snag and break the other leads.

So, whether you're sending the meter off to the shop, or wherever, move the leads. Put 'em through the handle at the top of the meter, stow 'em in the compartment, and reverse the back cover so that the opening is at the top. That lets you feed all the cords in...and still be able to screw the cover back on.



REMOVE
BACK
COVER...



...FLIP METER
BACK INTO
HOLD UP

LOST A LENS CAP?

THE COFFER TASTED LIKE
SOMEONE LEFT THE LID
OFF, IT SOMEHOW ENDED
IN A MESS...



Dear Editor:

Here's a money-saving tip to save the lens cover on your A-, B and C models of the PM-5570-PFP overhead projector from going missing.

You can use the plastic cover from a 4-in diameter coffee can. This is a good substitute for the regular lens cover. It's really absorbable, and it doesn't cost a nickel!

D. S. Kruger
Indianapolis, Ind. Pa.

Old Folks—You're right as rain, and the Electronics Command says the lid is an acceptable substitute for the cover.

A FREEZING CONNECTION

At 50 in the shade or 15 below ... the connector plugs on your 26-pin CE-1768A/Q and CE-1768A/Q telephone cable assemblies can freeze right.

To warm off the bind, unhook and reconnect the U-185/Q, U-186/Q, and U-187/Q connector plugs at least once a month.





GROUND STRAP TIE?

Dear Mail-Stop,

I've been told the ground strap on the instrumentation of the AB-15GR could not doesn't have to be attached to the vehicle. I've also heard that it does. What's the answer? Also, will the antenna work right with the head missing?

SERGE D. J.
Ft. Snugg, MO



Dear Sergeant D. J.,

It does. In, when you install the AB-15GR antenna main base, connect the ground strap the way it shows on page 21, fig. 38, TM 11-284. If ever you lose the "head" off the end of your whip antenna, don't worry it but do replace it. The antenna will function all right without the head, but the head is needed for safety when the antenna is air-driven.

High-Alt

DATA PLATE PALAVER

Dear Mail-Stop,

How do I get a data plate for my 58-21-117 replacement now that 58-17-262 has been replaced?

SPO-2-E

Dear Specialist G. E.,

Ask your supervisor to get one using FSN 5891-416-1079, listed on page 6 of TM 11-5891-262-11F (Jan 63).

High-Alt



DATA PLATE
5891-416-1079
11-5891-262-11F (Jan 63)

STORY FROM THE

AVIONICS RECORDS



Dear Staff Writer,

We've got a few big questions on records like DA Form 2458-7 and -8 for avionics items classified in or removed from aircraft.



Some items like the AN-ARC-114 don't have a serial number but include a component (AT-142/ARC-114) which does.

Q: What number must be used if a replaceable system doesn't have a serial number for a major component does?

Under all TFR-10 after TFR 100, those replaceable item procedures, use AN-ARC-114 for TFR or TFR-114 is eliminated for number when the one that's removed needs repair.



Q: Can the -7 and -8 for the AN-ARC-114 be eliminated when the aircraft is a system with its own -7 and -8, using the rule in para 4-217(1) of TFR-100 as a guide?

Q: If the answer to the above question is no, can a -7 and -8 for the AN-ARC-114 be kept in the aircraft log without an identifying serial number so that our forms won't be needed when an AN-ARC-114 is re-changed for another in a machine floor transaction?

In many operational readiness fixed transactions, one component of the communications and item on system is substituted for another in a 24 swap.

Q: What log record is made of this component DSE?

CW3 G.F.W.



Dear Mr. G.F.W.,

The serial-number rule in para 4-217(1) of TFR 10-100 applies to systems as well as other items. If the replaceable system doesn't have a serial number, use the preassigned record number from the system's initial DA Form 2458 as a serial number. Never substitute the serial number from a component.

UNDER THE PLAN OF OFFER AND NO DATA PLATE SERIAL NUMBER FOR A SYSTEM, NUMBER SHOWN IN BLOCK 4-21 OF FORM 2458-7.

Form 2458-7	Form 2458-8	Form 2458-9
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On your second question, the answer is no, the -7 and -8 for the AN-ARC-114 may not be eliminated. Para 4-217(1) applies. Para 4-217(1) applies only to components of communications items on systems.

On your third question, again the answer is no. Those forms go with the item, then—to that much as in the case already the item is handled in.





And the -7 and -8 must be identified by the specific item's serial number (either from its data plate or from its initial DA 2408-04).

1. NAME OF PERSONNEL		2. NAME OF OFFICE	
3. REPORT ON		4. DATE OF REPORT	
5. TITLE OF REPORT		6. NAME OF REPORTER	
7. COMMENTS BY PERSONNEL			
8. NAME OF PERSONNEL		9. DATE	
10. NAME OF PERSONNEL			
11. NAME OF PERSONNEL			
12. NAME OF PERSONNEL			

Also, you'd need to make out a new DA 2408-7 each time if the first exchange is a property-back transfer. No name-7 would be needed, then, if the item stays on the same unit's property-back—even if it's installed on a different aircraft. In that case you'd keep that old-7, but keep it with the item along with any other log forms it may have.



As for those component DE swaps, the best way to handle 'em is to record 'em on DA 2408-10. If the end item or option doesn't have a DA 2408-10 (a requirement to para 4-114), your CO will run out 1 up to



M134 SAFETY TIPS



CRACK THAT TRIP POOP ON THE BULLET TRAP AND FLASH SUPPRESSOR

Ever since the M134 machine gun made the aircraft armament scene, GIs often have walked an egg shell during their check for a before round in the gun, and . . .

Never have we suffered temporary light blindness when firing the minigun during nighttime ops.

Firsttime, when a GI/Jet pulled a weapon-check check and we obviously turned the barrel down when removing the eading screen, he got a hair-raising, upright, bullet copes. And a safety note make had to do the grape hit with his eyes after blasting away with the minigun.

Now a bullet trap and a flash suppressor make the mighty minigun a safer weapon to maintain and operate. Both items are in supply.

You've allowed 2 bullet traps, FM 9-111-100-145 for every subgun equipped with the minigun, and with M134/M1, M134, M134A1, M1, and M134/M134 subgun.



You can get 1 flash suppressor, FM 9-111-100-145, for each minigun subgun installed and in use.



Use the M134 on your regulations. Both trap items M134 each suppressor, M134.

Keep your eyes peeled for changes to TM 9-111-100-145 series manuals that'll have the maintenance and repair parts pump in 'em.

Let's take a step-by-step introduction to each item.



BULLET TRAP INSTALLATION



AND A SAFETY PRECAUTION: If you're sure the minigun and minigun are in the OFF position.

Caution: all automatic subguns and third electrical power switches and circuit breakers should be in the OFF position. Make sure none of your facilities are working, walking, or standing in front of the gun.

Hold on, Problem. This bullet trap is not for use firing or for clearing the gun by intentionally firing into it, however.

After the trap, when you're in the trap, you're in the trap.

1. Loosen the air screw in the top of the trap with a screwdriver.



2. Loosen the air screw until the reading bar and needle are free on the scale.



3. Insert the pin into the hole in the bullet trap with the needle pointing up.



4. Tighten the air screw until the reading bar and needle are free on the scale when the needle is loose.



5. Tighten the air screw.



5. Slide to the left or right of your weapon. Slide the bullet trap assembly—exactly like—into the barrel chamber until it touches the deflector face in the housing.

7. Rotate the trap clockwise until the handle end within the exposed end of the deflector in the housing is ready.



Note: Always rotate the bullet trap in the direction opposite to that of gas firing rotation.

8. For the bullet trap between exactly 90° clockwise gas into any 2 holes behind the end of the M18 gas barrel during assembly. Make an attempt to be sure to use the 2 that will give the bullet trap the lightest fit. You will not know just how far. For most for 180° turn.



To remove the trap, do so about face from above procedure. Remember, the deflector, that trap rotates off before this off!

CLEANING

Clean your bullet trap after any round is fired into it. Take it apart and chip or scrape the round fragments from the deflector surface and from the inside of the housing.



USE CURRENT
CLEANING INSTRUCTIONS
FOR THE M18
"LAWYER" GUN
WHEN THE
DEFLECTOR IS
WITH PG-8.

COAT INSIDE
WITH PENETRATING
OIL



INSPECTION



Check aluminum cap for deformation or cracking.

Inspect the deflector for cracks.

Give the rubber insert a long visual treatment to see if fragments could pass back into the engine barrel.

If it light can be seen through a better hole in the rubber insert, replace insert with TSM 4800-754-4344.

Several rounds required through the same hole in the insert before it's necessary to replace it.



Inspect the rings. The barrel clamp bolt gets special attention. Look for damage if gun was fired with cap installed.



FLASH SUPPRESSOR INSTALLATION



1. Remove the barrel clamp assembly from the rings.

2. Reassemble the flash suppressor.



3. After inserting the flash suppressor bolt through the suppressor cluster and barrel clamp assembly, start the suppressor nut on the bolt.

4. Align the nut hole with the barrel clamp hole.



Insert clamp bolt and tighten just enough to hold the flask suppressor nut.

5. Hold the suppressor bolt against the cluster. Turn the suppressor cluster until it contacts the barrel clamp assembly face.



6. Tighten the suppressor cluster. Line it up with the holes in barrel clamp assembly. Turn cluster one hole after it touches the barrel clamp face.

Remove barrel clamp bolt.

Install assembly with suppressor on nutplate.



Note: The barrel clamp bolt needs special rightening attention. Turn the bolt into the nut until the head contacts the exterior surface of the barrel clamp, then give it one more halfturn. No more!



CLEANING

CLEAN AFTER EVERY
GOOD BLOWDOWN
OR ONLY.

Take extra care not to break or crack the tongs. Look for cracks at the base of the tongs. Leave the chamber's protective finish alone, too.

For safety, replace the flash suppressor after you've fired 40,000 rounds through it. This should stop the chamber shot weakened tongs are about to do the split bit from the chamber.

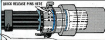
Even missiles flying around, you don't need! Especially if they around from the cockpit.

Repairing the flash suppressor is a no-no. Just replace any from part and get on with the job.

Watch, OJ's, you use the flash suppressor **ONLY** for nighttime operations. Saves your Uncle some trouble while you're using Peter Filler's eyeglasses.

You can use the bullet trap with or without the flash suppressor. If used with the suppressor, you must put the quick release pin behind the back of the barrel clamp assembly.

BACK RELEASE PIN HERE



PROPER CARE OF THE
CLAMP AND YOUR WEAPON
WILL BE A PLEASURE
AND PLEASURE.

COBRA TIPS

Full, but not over-full.

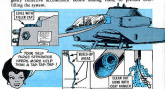
That's the way your Cobramechs want to keep the hydraulic fluid reservoir on your baby.

When the pilot makes a steep no-sinker pass, a low reservoir will allow air to enter the hydraulic pump inlet causing fluid foaming, which results in loss of hydraulic pressure.

No pump damage—no need to change it.

Just keep the MIL-L-5606 red juice level with the reservoir filler cap.

Remember, also, hydraulic pressure must be released from the emergency collective accumulator before adding fluid, to prevent over-filling the system.



When the ejector tube is clogged, the particle separator gets jammed with stuff and can't do the job it's designed to do. Some of the gunk gets into the engine—and there she blows!

You see, Wreckers, the ejector tube bends around airframe structures just below the separator and again just above its exit point.

It's in these bends that oily gunk and dirt find a home—causing clogging up the tube something fierce-like.

A couple of turns with a wire inside the ejector tube should loosen any dirt buildup.

Run it down from the top for about a foot or so—and then up from the bottom same-ness.

A coat hanger works fine.

CHEAPER BY THE QUART

Dear Buddy,

To save some "green" we'd like to suggest that you look over the special rates for Volume 111.

Our method is simple and correct. Some competition is to use private jets.

It will never take more OIL for use in aircraft, buddy!

CHUCK L. S.

Dear Mr. R. L. B.,

Negative!

The money saved by keeping the residue of a quart is not worth the possibility of ruining expensive equipment.

The cleanliness requirements are very strict on a plastic lid is not going to give you protection. Use a new can.

If you find yourself with leftovers you can get some oil in smaller-than-quart size. FSM 1450-180-6111 will get you an 8-oz can of MIL-L-7808 ... FSM 1450-180-3159 an 8-oz can of MIL-L-7808 ... FSM 1450-180-6265 an 8-oz can of MIL-L-23659.



Any oil left after you replenish your baby can be given to your buddy for "right now" use in his same-type bird. It can also be used in appropriate ground support equipment and in oil squire cans.

By the way, never open any can of oil with a screwdriver or other sharp tool which has a plated cutting edge, unless the tool is made for that job. Plating can chip off or the tool may be dinged. Either way, you'll wind up with dirty oil.

Alamy

FOD IN THE TAIL

FOD's wheads can get in the tail or main rotor blades during an unassisted "Cobra" flight pattern....

Unless you take off all the rope-brake belts on the wing stores pylons before take-off.

Back 'n' move 'em in the supply room. That way the wheelbarrow can't rotate 'em over—or pull the pins off—and up go back into the blades.



BE SHARP LOOK SHARP

Keep up with changes to the Clinchok (CR-47 B, C) overhaul and retirement schedule in Chap. 3, Sect. V of TM 11-1120-227-28-1 (May 78, Boston).

It's important—it's easy!

Compare the schedule with the Made DA Form 1608-16 info. Update the overhaul or replacement life (column 3), if needed.

Caution, now! There're 2 sections of the schedule to consider. The part number, overhaul and retirement interval on page 3-81—plus the part number, serial number and retirement interval beginning on page 3-82.

No sweat with the part number, overhaul and retirement wrap-up acceptable blades to the depot when the time rolls 'round.

The part number, serial number and retirement time deal is something else again. First and all blades listed are selected components and have no overhaul interval... just retirement time.

NEVER ship any blades to overhaul when they hit the retirement time, or when they're scheduled for overhaul but are too far gone to be reused.

It's a waste of "good" to ship scrap.



CLINCHOK BLADES

SUPPLY



ARE YOUR SUPPLY PUBLS CURRENTLY SUPPLY?

OUTDATED INFORMATION AND MISSING PUBLS WILL SOGG-UP YOUR PLL OPERATION.



DOES CURRENTLY HAVE YOUR SUPPLY ON THE SUPPLY DISTRIBUTION?



DO NEW AND IMPROVED PUBLS KEEP COMING TO YOU?

The specific equipment supply materials you need depend on the type of equipment your PLL supports. And, although these pubs, the following items should have a special spot on your PLL bookshelf.

1. **SA Pub 7901 (Aug 79), Material Requirements for Wiring Tools, Supports, Dials and Installations.**

2. **SA Pub 7902 (Dec 80), Commandant's Supply and Maintenance Handbook.**

3. **SA Pub 800-01 (Feb 80), Guide for Selecting Your Supply Personnel.**

4. **SA Pub 800-02 (May 79), Selected Items of Material and Supportable Items.**

5. **SA Pub 800-03 (May 79), Expedient Items.**

6. **Test Manuals, Parts Manuals, Supply Bulletins, Supply Catalogs, Technical Bulletins** which list or authorize repair parts and supplies for the equipment your shop maintains.

7. **Indexing is automation:**

If you can't bring on to current copies of all the indexes, you should at least have one at your outfit keeps a current set. The indexes are:

SA Pub 180-1, for AFIs, SA Parts, Envelopes, and other administrative type pubs.

SA Pub 180-2, Main form.

SA Pub 180-3, AFIs, AFIs, AFIs, AFIs, AFIs.

SA Pub 180-4, AFIs, AFIs, AFIs, AFIs, AFIs.

SA Pub 180-5, AFIs, AFIs, AFIs, AFIs, AFIs.

SA Pub 180-6, AFIs, AFIs, AFIs, AFIs, AFIs.

SA Pub 180-7, AFIs, AFIs, AFIs, AFIs, AFIs.

NO ONE CAN AFFORD TO OVERLOOK THE CURRENT STATUS OF YOUR SUPPLY PUBLS.

PLL BOOK-SHELF

PLB

BSI

Support B and B, Chap 2, give you PLI (GP).

Ready reference on filing and supply items and keeping supply items.

200 on working pub.

It's loaded with supply info on and from PLB, LFI, LFI, and LFI. This info is needed quickly. It's the data that you can use to start looking for a new one.

Automatic expenditure supplies, totaling up to 100, which are not authorized by other pubs.

Provides supply and storage info for working up your PLI.

On the pub you need.

If your outfit didn't get some pubs via pub-point, you'll have to order them by using DAF, Form 17. Order administrative pubs (CAF's, parts, etc.) directly from the Baltimore pub center, under the technical and supply pubs from the B. Local center.

LOCAL SUPPLY



THE LOCAL SUPPLY USED AND FROM THE TECHNICAL SUPPLY AREA.

Your outfit's equipment density fits. Shows exactly what equipment your outfit has on hand and is responsible for maintaining.

Your outfit's supply SOP. Spells out specific details on how and when you do certain things in your supply operation, tells who supports your outfit and how, provides DA, self-service, and SALT supply SOP, etc.

NECESSITY IS

Most supply support centers use the AMEIP (Army Materiel Equipment Inventory Planning and Control) supply info system. With the master list, support can give you just about any info you need on any good PMA. The AMEIP comes in microfilm, and support can come up with the info you need in seconds.

ARE YOUR SUPPLY PUBLS A TOP PRIORITY? ARE YOU GETTING THE BEST OF THE BEST?



YOUR SUPPLY STATUS CARDS ...

READ 'EM AND REAP

Your DDU (don't support until) sends you supply status cards but only one reason—no keep you posted on the things you've requested.

Supply status cards (DA Form 770) or DD Form 1510a) talk in code. To read the cards right you have to flip the Information code on its card columns 00-05.



Status cards may simply give you an automatic "Rego" on your request; they may provide specific instructions you're to follow; or they may ask questions which will require an answer or some other action.

The coded messages supply status cards are being you are decoded for you in App 10-17, AR 721-30.

Along with the code in column 00-05, you also have to know the 3-character code used in the card's column 1-3, the document identifier code (DEC). It tells you what kind of info the supply status card

is bringing you. You'll find the DEC's detailed in App 10-1, AR 721-30.

Q C I Question??

File supply status cards from your DDU in your temporary support file, and by your own document number. File supply status cards on requests your DDU converts to MILSTRIP (AR 721-30) requisitions in your regular support file, and by the DDU's document number.



When you send in a follow-up or cancel a request, be sure to use the latest supply status card you have on the request.



Status code know-how and orderly files will improve your supply operations no end ... and will certainly get you apart in a sleep routine. You can bet on it.

SAVE TIME, WORK AND TIRE...

SOLVE YOUR SUPPLY PROBLEMS

ADDRESSES
A FEW MORE
POINTS FOR ALL
SUPPLY MEN

Keep supplies
packaged until
needed (that
package
probably was)

Materials contained with
your former L&P
and drawings

Keep long demand items
close for work
replenishment and price

Look for all various drawings
that is waiting in line for it

Protect supplies from
damage, loss and theft

Perhaps, but in ordering all materials
which delivered to L&P, there the materials
which have got "see back on the sheet
booked"

Review supplies as needed (not only
what you actually using)

Working in various in fact you can
drawings, with many more drawings

Drawings immediately available to you
that they arrived and the supply system

Use the free L&P L&P in your own
L&P's and many more for you and
business what

NOW IT'S AR 710-2

It's for you and your DSO, and AR 710-2 (Aug 71), Material Management for Using Units, Support Units, and Installations, puts it all together. It brings you updated scoop, and consolidates old supply tables into your handy palm. It separates, for example, AR 715-35, AR 711-15, AR 711-25, AR 715-55, AR 170-47, AR 115-65, 115-67, and a slew of other related pubs.

Each level of supply, of course, is covered in a separate section of the new AR. The TUE (property book and PLL) types, for example, are Chap II in AR 710-2. It should be coming your way soon.



NO-SWEAT MAC-SUPPLY

Mr. PUL-Mac ...

What do you do when the MAC (Maintenance Allocation Chart) in the TM says your shop can replace a part, but the needed item's not listed in the equipment's TM -P? No sweat, just let both the TM and the TM -P in Block Q of your DA Form 2755, like it says in para 7-15a AR 718-1.

GETTING YOUR PUBS?

You may not be getting the publications your unit needs because you haven't asked for 'em. Publications on pinpoint distribution will come to you automatically once your unit gets an account number and your pinpoint forms are sent to the Publications Center at Baltimore and Co. Louis.

IF YOU'RE IN A CORRESPONDENT OFFICE OR DETACHMENT, YOUR PUBLICATIONS SHOULD COME BY MAIL. YOUR BEST NUMBER RESPONSES GO THERE AND TO THE CENTER.



COLOR'S IN; BYE THE NUMBERS

Color's in; numbers are phasing out ... in case you're wondering, however, ESC TM's still has color ratings in most cases and numerical scoring in some.

AR 750-57 (Aug. 88) added equipment suitability criteria numerical scoring ... but some ESC TM's haven't been changed yet. Until they are changed or re-issued, use the scoring system your ESC TM calls for.

Also, authorized items not on hand no longer get a mandatory RED score. The MS Spec on ESC directs ESC TM's to make a change which reads:

"Authorized items (subsystems and components of multiple aspect equipment) not on hand shall be given the lowest color rating designated for that item."

Which means ... if the item



checks for the subsystem/component are not rated lower than AMBER by the TM for any reason, AMBER is the rating it gets when it's not on hand. In any case, it gets either RED or AMBER.

FOR SUPPORT-AND YOU



FOR
ART

Organization			
Unit	Address	City	State



FOR THE
ART LANE
ART

You too can use DA Form 7-79 for certain supply requests. Although this multiple-item form is designed for inter-shop support (it (para 1-4a)(2) of AR 718-2 and para 8-6 of FM 29-21), it's also authorized for certain organizational use—as spelled out in para 2-6(d) (1)(3) of AR 718-2.

Of course in some cases it's just 1 of the optional forms and it's normally used only for requesting items for immediate use—NOT for replacing PLI or recurring-demand items, and especially not for those whose DA JSS programs are on hand.






Operational P.M. 20-2

Operational excellence. And that stands for Operational Maintenance Management, as spelled out in the new Fed 290-2 (M Aug. 78). It has guidelines on organizational design and supply operations, readiness and safety. It lists forms used and other rules that apply. Appendixes outline SOPs for general and special types of units.

Get Your Introduction

When your unit figures out the introduction in the Federal Supply Catalog Management Guide for COMUS, get hold of the Federal Supply Catalog Introduction to the Federal Supply Catalog (C-1 Army). It'll give you all of the steps. It's so popular and your requirement is so big from 10-21 in the Quantity Requirement Block 1.

Bridge Truck Body Parts

Sure, there's a guide to keep that M28 military bridging truck body in good shape. The repair parts manual is the 3-22-10-200-25F (Jul 48), and the maintenance guide is TM 3-22-10-200-15 (Jun 67) with 1 and 2. They're listed in Cat. Part 210-4 (Jun 78) under Body. Make jumpstart of truck, bridging.

Parametric Mattress Stopper

Sure you can get on before the take stopper for your parametric mattress, FM 340-244-2887. Order FM 340-244-2887. It's listed in your Fed Cat 214-0170-4-4 (Dec 75).

Water Tank MWO

If you have a U.S. Rubber Model C5-9C-1, 900-gal collapsible tank, water distributor, FM 340-244-2887, then you'll need MWO 4-3625-2-17-20/1 (Jun 71). This MWO 340-244-2887 changes the graphics boxes, and adds an adapter and hose for filling the water tank. The MWO has until 1 June 72, after that it's out around \$40.00.

Double-Duty JSN

Need a D-14 or D-16 dynamometer power supply for your AMT-500-19 vehicle? Use FM 340-244-2887-15 for either model, since the two are fully interchangeable despite internal differences.

No Troops in Seats

There's no one seated up a road trailer by installing seats for troop transport. Part 2-1, All 281-40 (Jul 78) says personnel will not be loaded in ambulances or trailers.

Best P.M. Stinger

Who's got the best PM stinger or stinger?

If you think your unit has the best one, let it down and send it to 240-244-2887, PM Stinger, Fort Sora, Ky. 40121.

PM will pick the best ones.

Commercial Vehicles

If you've got vehicles or other commercial design motor vehicles such as trucks and buses, make sure you're up on the pump. In TM 3-280-295-15/9 (Jul 71) - Motor Vehicle Protection, Commercial Design Motor Vehicles, All Contents.

M548, XM750 Fix

If you haven't turned your M548/register or your XM750 cargo carrier or XM 750-Quadrant vehicle carrier, you may just be lucky. You can keep both on your side by reading the Article 2-1-5 of 3-280-295-15 (Jul 71) with you.

It's Here!

For more operators looking for operation, maintenance and parts pump on hydraulic test stand, type D-16, FM 340-244-2887-15, the search is over. Focus on a copy of TM 3-280-295-14 (Jul 71) before you make the next search.

It Digits?

If you run across a 12-digit FM, No. 4330-25-108-1700 don't let it shock you. On there may be two 12s for 2 appeared where the 12 is. That's a pair of things to remember about check numbers. Disregard the 2 slight (or appear) 12 further word comes down. Look for types may want to read about 2 in Chap. 4 of 4330-25-108-1.

M51's Special Wrench

There's a special to be a gear case plug wrench about every M51 motor driven truck. It's for checking transmission and differential tube levels. You need it - Wrench, chain plug. FM 340-244-2887 (Jul 71) listed by FM 340-244-2887 on page 4-1, TM 3-280-295-15 (Jul 71).

Dump Truck Seats

If you've got a need for dump seats in your M548/M549 dump truck, order by Part No. 340-244-2887. You'll get the same, heavy, cover and all hardware in a kit. This calls for "transportation" equipment. M548/M549.

Dollar-Wire

No certain amount. Economy items listed in the parts guide are authorized during transport. No funds coming up the roll for new power, no-down, repair and tests.



ALL
WRAPPED-UP
IN THE
TIRE
Scene?

DIG YOUR
TIRE
DEMOUNTER

AND OTHER TIRE-
CHANGING TOOLS!
PLAY IT COOL
AROUND THE RIM,
RUBBER
AND
BEAD

**RUSTY
RIMS?**

USE SOAP SOLUTION OR
TIRE DEMOUNTING LUBE.
(PSN 2640-045-057)

LET YOUR AUTHORIZED TOOLS
DO THE MUSCLE BIT...