

Joe's Dope Sheet

REPLACE THE
WHOLE UNIT!



There once was a Joe named McCone
Who could not leave well-enough alone.
You see, this dumb guy
Almost ruined our supply
By ignoring the rule of IRON.

IRON MEANS
INSPECT AND REPAIR
ONLY AS
NECESSARY



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

See The

MOVIE

too!

ON OPERATION AND
MAINTENANCE OF
YOUR EQUIPMENT



Check for safety—All Hazards—All 1 Safe Working Practices—All Safety
Notes—Always Remember that you are not from Home Film and Equip-
ment Exchange.



Issue 111

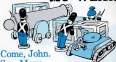
PS

1962 Series

**THE
PREVENTIVE
MAINTENANCE
MONTHLY**



MY WEAKLY



Come, John.
See, Mary.
Come and see the toy soldiers.
See the soldiers' tanks. See the
soldiers' guns.
Watch the tanks go!
Go, go, go.
See the guns shoot!

There are other soldiers. They
are over there. Their guns and
tanks are still. Their guns are
rusty. Their tanks are broken.

Broken, and hurt by rust.
Rust, wear, rust!

READER

LESSON NO. 1



The rusted guns
will not shoot. The
broken tanks will
not go. We must
pretend those sol-
diers are dead.

Dead, dead,
dead!



Issue No. 111 1961 Index

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M60

Dear Mail Man,

Getting the safety out of the M60 trigger housing is a trying chore. After a few sore finger nails, skinned knuckles, and lost safety springs one of the inventors here introduced us to a simple tool.

It does the job safely, easily and quickly.

The tool we made out of long shank tool steel was tough, strong, and so old you'd know how.



SEE HOW SO
TODAY YOU CAN
ORDER TOOLING
STRAIGHT FROM
US

I cut the length of shank steel and cut its base and ground it a fine edge. Center of the safety is flat so to form a ground 20 and change on 1/16 inch deep and 1/4 inch wide.

2000 length of spring is set square. For spring information visit the grounds enough first on the shoulder of the plunger.

It's used like this:

1. Rotate the safety up like you see in our advertisement (over the tool).
2. Slip the tool under the trigger housing retaining pin and place the retaining plunger on the shoulder of the safety plunger.
3. Press down on the handle of the tool. Now with the spring and plunger pressure combined the pressure forced the safety pins out easily. The tool gives you the needed leverage to break the springs tight hold and the loop the spring and always has flying wild when the safety is pulled out to inspect the safety.

1. Put the safety spring and plunger in the housing and give the plunger shoulder with the tool just as below.

2. Press down on the tool handle and at the same time rotate the safety in the trigger housing.

Now rotate the tool and rotate the safety down, and that's it!

The tool makes a pretty job very easy.

SFC R. A.

Safety Tool



Dear SFC R. A.,

OK, but did you ever try to install the buffer guide?

Put your eye on the safety as you work at back and forth. Slip guide prong in space between the housing and the end of the safety, and hold plunger down as you pull safety all the way out.

To replace: Insert plunger and spring into housing. Push safety into housing until it clicks up against plunger. Now, as you press plunger with yoke, push safety in until your thumb.

At the end of the safety covers the top of the plunger, you can guide the safety all the way into its groove with the yoke. Rotate the safety forward, and it's done.

Handwritten signature: Harry Wood

On the "unauthorized" side, OSHA and OSHA representatives will be looking for any and every violation. OSHA representatives from the OSHA Regional Office will be looking for any and every violation. OSHA representatives from the OSHA Regional Office will be looking for any and every violation.



SUPPLY FRONT

AR 711-16

It's now more important than ever for you to order your authorized replacement items on a regular basis. Here's why: AR 711-16 (25 May 60) "In-warehouse Stock Control and Supply Procedures", now allows your supply support units to stock items for the following "demand" rates per year—

IN 2000.	Maximum demand must increase 50.
Control Item	20 demands for two
Explosive Item	20 demands for two
Balance Item	20 demands for two
CR Item	20 demands for two
Signal Item	20 demands for two
U Item	20 demands for two

What's all this supply support record-keeping business got to do with you? Everything . . . because, in a good sense, you're the boss. Supply support can only react when you ask for . . . well, how often, and when you ask for it.

It works like this. By ordering your needs regularly (per your local supply SOP), your supply support will have time to react, making up their own work-up lists, working out requisitioning objectives, and maintaining inventory-control operating levels.

On the other hand, if you order irregularly—more than you need, less than you need, just whenever you feel like it, you stress supply a big, fat, phony stress, which can create unrealistic demands all the way up and stress the supply system. You can actually cause them to overstock, understock, or even eliminate your most needed items.

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46c

This is especially true when your ACDI unit calling (or whenever your command may call the local funding limitations) starts getting low to watch the end of each quarter and find your balance your support anyway . . . let your supporting activity know when you need . . . if it will eventually catch up. Then the items you asked for will be included in the overall supply picture and you'll get your supplies soon.

ABOUT THIS: OK

So, it's all in the good—you good—is to be a faithful and loyal customer. It's the only way supply can be prepared to meet your regular needs—the only way they can give you local response rate they work for) has not dependable supply support.

That's on items which supply isn't authorized to stock because there's not enough demand for it. They'll get it for you as you need it. It things there can be authorized for stocking, do, when your demand for it, plus the calls for it by other units, add up to the "demand" rate which OK's on item for your supply support's working list.

FOR IT

You can even use your DD Form 14 (DD Card), either's format, or similar print, as identification when you receive supplies . . . provided, that is, that your supply officer has not the supply people a DD Form 1487 (Receipt for Supplies) authorizing you to sign for such supplies.

When you shop at a well-stocked supply center, of course, you may have to check a couple of different things—this a change plan, signature-card, and maybe even a work order number.

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YOUR S-S-S-I MONTH

Let, but not there—in addition to making for more dependable supply support for all concerned, keeping near operating levels at all times will help to put more gas-power in a commander's operating hand.

Connie Rodd's

TRUCK 'N' TRAIL TRIP



2013 APC plug news

Having trouble with the spark plugs on your 2013 APC? When you operate at slow speeds or idle your engine for long periods, carbon builds on the plugs and kills them.

The cure is simple. Run your engine at 2,000-3,000 RPM for runs as few minutes any time you've been idling the engine or running it at slow speed for 30 minutes or more. That'll help clear

the carbon off the plugs.

Some owners have been paying for un-needed "hot" plugs to keep them the carbon, but that way they risk engine damage from pre-ignition.

Stick to the unheated plug, P/N 2100270-0738. It's the right one for your 2013. And don't try any experiments with the carburetor or fuel settings.

Spacers out?

It may be a pain in the neck sometimes to get the spacers back in place after you've taken your MC-18 or MC-180 tractor's front wheels and load blocks apart, but don't ever leave them out. Without the spacers, the discs will get separated in or right against the blocks that they won't be able to run with ease—and your wheel'll be out of business.



Easy does it!



There's no panic' away from the fact that you should wear the handrail your needed including torque wrenches as

When you turn the handle down—don't use force. There's a spring stoppin in the wrench handle that acts as a resistance point only. That's just what you want when you've reached the low torque setting.

If you put some muscle in that handle while you're backing off, you can shear that pin. If this happens, the handle will come loose from the body of the wrench and you'll get any torque but the one you want.

So, remember when you turn down your wrench handle—easy does it!



the lowest setting after each use. But don't just use care!

1988 Buick Wildcat

Timely Timing



Like with any engine, the Mill 4PC engine's gotta be in proper time to get the penalty.

The designers say that the Mill engine'll now be set to the new 11° mark rather than the 10° BTDC it had in the past. The hell because a couple times, but 11° is it—the new timing out of production now are set at 10° BTDC, starting with engine serial number 1494.

Setting it to 11° BTDC'll reduce the internal pressure and energy produced



in the combustion chamber during ignition that is rising lower with the piston.

Some older Buick's may not have a 11° mark. So, even, get your timing bracket fixed up like this and give 'em the 10° ... right point or worse.

Check that change

Wash those wheels.

Yep, that's THE word on all dual-wheel jobs—be obsessive. Use spray aimed at you like guys who have just lashed out at the new XMC10 guided missile trailer.

Change 1 (7 Star 81) on TM 9-2140, 211-14 spells out new mounting stud and requirements and other changes in the wheel assembly that are strictly top priority bulins.

Early models of the trailer came up with loose wheel problems because the nut, FM 1110-117-2806—used on both mounting stud to the hub assembly—you didn't do the job. It made for thread failure when the nut and cone were torqued.

Now, as a temporary field fix, replace the nut you now have with one, FM 1110-117-2806, which you can get from Ordnance. Torque this nut on 175-200 ft-lbs and don't forget there's also one a wheel.



SP-2
541 408 82,
FM 1110-117-2806

The final solution to the problem will be one, FM 1110-117-2806-11, which you'll be able to get for replacement as



required... even if it works its way into the supply system.

Both the temporary and final replacement nuts are self-locking—you can forget about the 1/4 in lock washers that were used with the original nut.

Once you get the new mounting stud and torqued right—175-200 ft-lbs—you can mark your minutes on torquing the lower cap nut and cone nut on the mounting hub.

On the XMC10 trailer you torque all wheel stud nuts to 150-200 ft-lbs. And you check the torque once every two weeks on a new vehicle or until you're sure the right torque is holding.



Dual wheel torquing

Dual-torque calls has a way of getting heated up—so here's a little reminder on the right way to torque the inner and outer cap nuts on your dual wheeled vehicle.

Just remember two things:

The inner cap nut keeps the inner wheel tight.



And the outer nut makes sure of the outer wheel.



When mounting wheels, first slide the inner wheel over the mounting studs.

DO IT BY THE NUMBER, AND SO. First, get up the truck.



Second, torque up the outer nuts. Use torque tool.



Third, torque all inner cap nuts to 450-500 ft-lb.



Fourth, torque all the outer nuts to 450-500 ft-lb.



Then screw the inner cap nut over the mounting studs and torque them to 450-500 ft-lb.

Finally, mount the outer wheel over the inner cap nuts.

Screw the outer nut over the inner cap nuts and torque them to 450-500 ft-lb.

When checking torque, and it doesn't hurt to do it more often than the book calls for, you've gotta know the way to check the inner cap nut—otherwise it's a waste of time and you're headed for sure trouble.





PLUG PLUGGED?

It's there in heavy type for Lindepipe users to see.

That's the warning on page 15 of TMI 9-1449-204-12—the one that tells you when you insert the rubber master plug to make sure the charging plug is installed on the rubber master plug the right way. The warning also tells you that the plug goes in only when you have to make certain electrical checks and profile operations.



If you don't have the plug in place, except for the checks and profile operations, you might get in trouble. Heavy electrical currents could start moving around—causing production of the igniter.

TAPE TALE

It's easy to do—finger to pull the tape from the clean bearings before you fit your Lindepipe ruckin.

And if you do... you know what happens. That's right... you set yourself up for a real hairy situation.

The tape won't fit the rubber spin... and so spin... no leave the handles. But that's only part of the tale.

As long as the rubber fits on the handles after you've tried to fit it, you're not to go along with what TMI 9-1449-204-12 and EM 4-57 say about handling ruckins and handles. You never know... with the ruckin trying to spin, the tape might work itself loose. And then—Bam!

But you can head off this kind of trouble before it starts—by remembering what the TMI and EM say about uncoiling the tape before you go to fit your Lindepipe.



BE YOUR OWN BOSS ON THE ...

MISSILE BODY TRUCK

WANT TO BE
YOUR OWN BOSS ON THE
MISSILE BODY TRUCK?

YOUR OWN
BOSS ON THE
MISSILE BODY TRUCK?



Got yourself a mass of problems 'cause the CMI boys are racking you up over the condition of your missile body truck?

The missile body truck, like other ground handling equipment on your Nike site, takes the hard work out of bulk loading. Just try moving the missile body or your body section of your bird with sheer manpower and you'll be converted to mechanization, fast quick—don't lose time.

Keeping the body truck in tip-top condition's a cinch.

Put this article in a handy place in your assembly building and use it as a guide for bigger and better preventive maintenance. OK?

To begin with, check your truck for things like loose frames, wheels that are beginning to come apart or the mount and base retaining stress. **• • • • •**

Pay special attention to the painted surfaces ... making sure there's no rust spots or chipped areas where corrosion can get started. **• • • • •**

Get EO 3-1458-258-128 out and make sure it's followed to a "T" as far as taking your best wagon's concerned—'cause proper loading goes a long way in preventing trouble.

In your check of the overall picture make sure the truck's wheels are correct and clean, and the lowering is the right height. The one inch high, that is.

Now hit those shockpans. Like always, leave them on for your weight plus please set in build eggs.

REAR WING LOCK BRUSH

Attach pin head, mixing, set on support, thread, spin screw on bracket, mixing, stain brake, mixing, and attached, connecter pulsed, screw loose, bring pin mixing, leads, lower, show mixing, brush, with track.



REAR WING

Assembly, fastened, fasten, loose, ring bolt, bent, threaded, mixing, lock loose, mixing, spring on base, mixing.

REAR WING CROWD

BRACKET - Assembly, loose, fasten, mixing, bracket ball bar end, loose, threaded, lock loose, mixing, spring on mixing, loose.



FRONT ASSEMBLY

Draw up pin head, lower, fit into base, fasten, out of adjustment, offer pin base, mixing, bracket not loose, set head, mixing, side out of line, center pin wrapped, fasten, lock.

TRIP BAR

Fast, fastened, with O-ring, 1 HOLE, lock mixing, base, safety chain links, loose, mixing, base, 1 HOLE, mix 1 HOLE, spin where pin mixing, twisted, bent, safety chain out of attached, in 1 HOLE, loose.

TRUCK - More dangerous, smooth, fit, loose, body, loose, set in side, 2x pressure, support, (shown) in 75 PSI, side pressure, out looking, mix looking, body, side caps mixing, base, (shown) glass, hole, threaded in the, fit, with, mixing, attached, with.

WHEELS - fit loose, bracket not loose, set in mix, 1 HOLE, mixed, fit assembly base, support, loose, mix, mixing, with, 1 HOLE, mixing.



LOCK PIN ASSEMBLY

Pin, twisted, bent, mixing, start to lock, mixed, mixing, lock, spin, after pin loose, mixing, spring on base, mixing.

REFLECTOR

Green, dry, dissolved, mixing, assembly base, screw head, mixing, support.

MIXING BRUSH

Brush, brush, spin, fit up pin mixing, loose, attached, fastened, loose, lay in base, look show support, base, base, mixing, with, lock, mixed up, base, spring, mixing, with.



WHEEL

Assembly, loose, screw mixing, base, clean, base, fastened, fasten, out of shape, lock, loose, spring, mixing, with.

PARKING BRUSH

Assembly, loose, loose, pull, fast out of shape, with, with, loose, gear, stop, gear, side, fit, with, loose, spring, with, mixing, lock, loose, base, 1 HOLE, 1 HOLE, mixing.



FOR GMP

These GMP's and their TM's take care of the publication life on the vehicle body work in far to first and second edition maintenance gear.

The G-1450-206-10, TM 9-1450-150-1000 and TM 9-1450-150-2000 will give you all the information you'll need to keep the truck in top condition.

The GMP's steps up like this: (GMP) (GMP) 587-815 (July 1994) applies to the base function of screw points. (GMP) (GMP) 587-815 (Jan 1994) changes the new base steps and bands. (GMP) (GMP) 587-817 (Jul 1988) provides the additional mounting plates.

The new GMP's issued in 1994 set your ears off by your support needs, but (GMP) (GMP) 587-817 (Jul 1988) is something you handle yourself.

FOR THINKERS... A dose of

Two C's - Caring and Cleaning - don't all the PM's you the opportunity to give your typewriter. Administer several before, during and after operation of the machine.

Which means you don't need any tools (just an eraser, a brush and some type cleaner).



Before starting to work again, clean the type with a cloth or brush slightly dampened with an eraser type cleaner. Be sure to clean the type face often if you're getting double-inking heavily. In addition, it's a good idea to clean the plates with alcohol once in a while, too.



If there's even good type cleaners in the supply system and you'll find them at SW 18-1-08-1450-00 May 61, PEN 7110-007-1470 January 61, a box of cleaning liquid for typewriter type (Red Spot P-1-2004) and PEN 7110-007-1741 give you one box of plastic rubber cleaner for typewriter type.



Next, dust and brush the typewriter all over, especially the type and keyboard and roller-trays. Then take the plates off to look the print.

PM

When you type, we love doing it paper - we're looking for an eye open for the wrong way the type face, but not, fully looking up.



Just remember that there are C's of PM include great treatment. This means never less on your typewriter... or the like large volume clean's paper in it... or make sure the paper with one line releasing the final roll. And don't keep it near heat (like a stove or radiator).

You should never let your typewriter by the carriage... or final books, boxes or any other heavy stuff on top of it.

If you have to move, be sure you push the carriage all the way to the right or left. The final word is get my words in the words. Also you'll think typing will be paper is here from behind the PM's PM's printer. And don't forget to get your final roll in one piece to start off on an extra typewriter before you start it. Keep your typewriter covered every minute it's not being used.



Don't let your talker anything wrong with your machine, get your hands in your pocket and walk to the pay with the bank. Look by one paying from yourself. SW 18-1-08-1450 Aug 61 tells you who's responsible for what on your typewriter and other machines.

STRIPED GAS ROCKET

Maybe you've been puzzled by Fig 3 of TB CML 73 (26 April 64). According to para 7 of the TB, the M24 115-mm gas rocket and its shipping and firing container are marked with three green bands to identify the type of filling and one yellow band so there isn't high explosive in the burner.

Now when you return to Fig 3 on page 5, item 5 shows you a curve. You want three green bands instead of three. It's not much trouble to clean up the problem. Just move the arrow and the 5 over a little like you can see. Then you'll have the 3 green bands and see the gray background of the doc.



1 NOZZLE BAND
(M)

2 MAIN BODY
3 TAIL BAND

ONE, TWO, THREE... TESTING



Some changes have been made to the ABC-BC Food Testing and Screening Kit. This is the kit that's used to make simple and quick field tests see if food is contaminated by chemical agents.

You now get one large reagent vial and twenty-seven packets of test paper.

There's more info on using the kit too. So if you want the latest info, get hold of Change 1 on TB CML 61 (1 Oct 63).



CHANGE 1 TO TB CML 61 (1 OCT 63) IS AVAILABLE FROM THE ARMY MEDICAL DEPARTMENT, WASHINGTON, D.C. 20315



LET'S COMMUNICATE



IN THE CAN

Dear Edna,

You know how it is when you're busy pulling checks on some tricky equipment and miles up forward. There's little time for delay and even less time to repair or replace damaged parts or tools.

That's why our maintenance crew figured it was time to take steps to spare the small parts in our 300-155-TOC one-bottle-in-a-can. Little things like rollers, spacers, nut locks, connectors and the rest.

These small parts they've carried in your doctor's pocket 'em from being dropped, handled rough, stepped on, or getting lost.



In the galvanized cans we use empty ammunition boxes to carry the load. The kind used to hold .30-cal rounds. It's plenty rugged, and has a lid to keep things moist.

For the really small job, we figured telescopewriter ribbon cans were a "no-

need". They're small and strong and can be slipped right inside the ammo box.

Though you might want to pass this along.

Edna S. M. P.

(Ed Naugle's good, Edna's do.)

CHECK YOUR BOXES

If you've recently laid hold of a new battery box CY-4417BFD-1 for your direction finder or AN/PQR-1, better give it another eyeballing. It seems that some of 'em are coming down the supply channel with mixed up wiring on their cable assembly battery connection. When making the check, keep the wiring diagram handy. You'll find it on page 124 of TM 11-677 (Oct 55).



PIN-PM

There's something more helpful about a receptacle connector (male type).

It just sits there waiting for its plug connector to come along—and sometimes gets hit hard when the mating takes place.

Sometimes hit so hard that one of its pins bends, breaks and gets banged up and then everybody is out of helpies until the receptacle is properly placed again.

And almost always it's the pin directly above the guide screw that bears the brunt of the incoming plug. Like on the TA-115, U Model used in the AN/TTC-1 Telephone Terminal—to name just one.



An operator is wiring up his Tank 3. Flugging away. He goes to line up a plug connector with a receptacle connector and rams heavily (too heavily) on the receptacle's guide screw. Which means he moves the plug up and down and around until both guide screw and guide hole line up. Then he pushes 'er in.

The damage is done when the plug connector is moved around as the operator tries to line up the two connections.

That extra moment of care and time to line things up will keep those pins straight and true—and keep the equipment on the line.

NOOSE FOR A NERVOUS NEEDLE



No need to modify your TR-110; 1/2 inch wire is an easy grab.

Yes, that could happen—over time you pack up your car equipment and move out.

Because bounce[®] around in a vehicle or street's can jar your TR-110 enough to make its needle jump. And a nervous needle under those conditions—makes the next movement act like a small generator.

So the idea is to slip a bit of elastic cushion over that needle's spring to act over during trouble. And that's easy enough to take care of—just by doing one thing.

What is to set the FUNCTION switch either to its 2000 ohms/turn or DC CURRENT setting. While the switch



is either of those two positions, you've always got 2000 ohms in parallel with the meter, regardless of the RANGE switch position.

This kind of FUNCTION switch setting will supply the needed damping effect—and keep the needle at correct rest.

YOU NAME IT...



Half a dozen pages, that's all.

But TR 110 158,38 (1 Jan 64) bulges with the kind of information that pays off over and over.

It lists all the Signal Corps material used to support Nike-d-jas and Nike-Hercules units. It identifies this Signal equipment, for example, by:

Item title	TR 110
Supplier file	Signal Number
Serial number	TR 110-174-0544
Reference publication	TR 11-264-30-1P-001

MOUNTING COUNT



It's the mounting that comes in over time that counts.

Without it, your vehicle-mounted communications gear couldn't go for a ride from here to there and still do its job.

And some men haven't been heard lately (you know, their mountings were found) for the slight touch of preventive maintenance needed to keep them in the line.

Like Polmarco's range of the old models: MT-207/GS, MT-250/GS, MT-270/GS, MT-300/GS and MT-327/GS. They provide the platform for just about all your ERG's, YRG's and YRG's and more more besides.

"So what's to do with them?" you ask.



First and foremost, the springs underneath the mounting need a real careful eye check to make sure that they're hooked up right—or hooked up at all.

Without those springs, of course, the whole locking assembly of the mounting loses its grip. And the danger is that it's mighty easy to overlook 'em because they're underneath the mounting. A man has to take an extra second or two to poke down there to make sure they're OK.

Also, check the top of your vehicle-mounted gear for mounting damage to see the mounting base of the mounting hasn't slipped into the underside of the vehicle equipment.

If it doesn't, you'll have a loose hookup, and, naturally, your vehicle moves out, the communications equipment will start slipping around like gum on a sidewalk.

Next time your gear is stripped from the vehicle, check the top of the mounting. The point usually is wrapped and

scratched as ice has removed and replaced.

Unless you've got one of the aluminum models of the MT-20/GB, sand the scratched parts off the top and spread it with a light coat of oil. This will keep the top from rusting and let you look or unlock your air line and easy like.



Maybe you're one of the MT-20/GB owners who locked into a mounting with cable anchors using plugs. If so, use them whenever your gear is off

its mounting. They'll keep the cables from dangling where they can get bent up.

If your cable leads itself holding down a spot where the weather is particularly damp, better give the cables on your mounting some special care.

You can cut down on the dampening effect on the cables by putting sodium powder on them. But you may find it's gotta be wiped off every week and fresh salt put on because of the moisture absorbed during that time.

What you don't want to do is to paint these cables. This is about the worst thing you could do since the paint will cause the cables starting to break down in short order.

CRANK WITH CARE

You've fit a heavy towing up-rite and put down the line.

And the handle of your TA-05, WT or TA-112, WT hold-plate or SR-22, WT winchboard is handy and ready.

But sort of keep-on thought close to the surface when you start cranking away. The handle on the main assembly of the hand-cranking generator may be the strongest handle ever made.

It's plenty rugged, right enough. But the next time you're cranking away, remember that every a piece has been put off the clock because the thin wall at the base of the handle has cracked and broken.

Most of the pressure from your cranking will push the handle against the



back wall. And since the wall is made of fairly thin aluminum, it'll wear up just so long.

Crank away. But a little care will give the handle the kind of handling it made for longer life.

FIELD PHONE RING-A-DING

You're finished making—no hang up! Like on your TA-55/PT or TA-52/PT field telephone. Just put the 2400-PT handset back in its cradle and forget about it all over time.

It's easy. Trouble is, though, it's often easy to drop that handset than to cradle the wrong way. And this can easily lead to several kinds of trouble, any one of which could disable your phone.

Figure it this way. When you pop the 2400 back into place, remember that the larger (transmitter) end fits into the smaller of the two handset receiving brackets.

NEVER PUT ONE IN THE OTHER WAY



Always also remember that the receiver end will fit under the cradle easily first. Slide the top plate at least a 1/2 degree angle, so the rest of the handset fits in. Then, with the receiver of the 2400 angled into its bracket, the transmitter end drops into place almost automatically.

LAY IN THE RECEIVER FIRST

LAY IN THE TRANSMITTER END



A top notch of tape on the receiver end and the receiver bracket (the one with the group) will guarantee that you hooked up into its cradle the way it's supposed to.



Common misoperation: When disconnected does it make which end goes where—and when as long as it's back between the brackets?

At least one solid reason.

The receiver bracket sticks up higher than the other one. And if a soldier moves the handset to the cradle the wrong way—so that the transmitter end faces the wall when 2400 drops into the receiver bracket—the cord will hang out and not hold square.

It's just a matter of time before that kind of abuse breaks off the vertical Micro-Telephone off the line.



Talking about the receiver bracket, there's some sticking out of it used to be let hold on by the receiver until the handset. Operating these handsets will require use for you. And without them, you have no means to hold the 2400 in place.

So when you hang up, don't get hung up.

⚠️ Slip your handsets into their cradles smooth and right—and they'll come out the same way.

CLIP JOB

Next time it's time to clip your H-311/PT handle, bear in mind there's more than one way to clip that sucker.

For one thing, you have to check to see which of the six models you have in hand, because the model decides which of the two available fork clips you need. These two clips, it turns out, are not interchangeable.

The spacing of the mounting holes on the H-311/PT model is different than from all other models (H-311/PT, H-318, C, D and E). Mostly a matter of the holes being further apart.

Service by-clips are:

SP. 52-1246-70-000
In the I model only

SP. 52-0285-00-007
In all models except I model



SPARE HANDLE
(PT, H-311)
HANDLE WITH
NUMBER OF LINES

Next time and any time you need a new clip, be sure to spell out which model of the H-311 you're handling.

SPARE THE BRUSH

Giving your commutator gear an inside brush-off can do more than boost its feelings.

It'll last its rounds. How 'em feel.

Causes the internal commutator would just as soon have a little dust lying around now disturbing anything unless love is whisked back and forth

rather plain, necessary, and the like. Otherwise, it only takes one speck of dust to put a relay out of service. Just one small speck.

Now an angle cleaner twisting around inside the chassis every week or so will never really let the dust settle. Those sensitive components will have dust in their electronic cyberside all the time.

Of course, if your chassis is spatter-covered with dust as thick as a fat left pad, there's no question about getting in there with a soft brush. But if the dust is nothing more than a thin, light layer, let that brush do for a while.

Give without saying that you'll keep the outside surfaces of your equipment clean every time. But think twice—maybe three times—before giving her the inside brush-off.



IF YOU FEEL, DON'T BRUSH HER OFF

Just on the chassis can shine and the impedance can keep his gloves white.

All this might sound like delirium, but FBI. But look at it this way. Even if worse than poison to relay, water,

ONE MORE WIRE...



Mighty crucial to keep your airborne electronic equipment wired right for sound and sight.

But many will say the most important wiring job has nothing at all to do with electronics. They'll say, instead, that safety wiring is even more crucial.

After all, things could get unhappy to say the least if a black box breaks loose during a mission and makes like a rubber ball inside your ship.

So, just about every piece of Sigint Corps airborne communication equipment calls for safety wiring. Whether it's transmitters, receivers, antennas, gyroscopes, power supplies and the like.

Trouble is, some of these boxes are tough to get at in the first place—and even tougher to reach with enough leverage to do a good safety wiring job.

Might be helpful, then, to pass along a few tried and true reminders that'll make your safety wiring chores easier to perform and check.

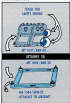
Look at it this way ...

WARNING!

Many a mounting assembly actually comes in two parts—each mounting an individual item with its own attachment. One is the mounting that bolts

directly to the framework of the aircraft. The other does two jobs: It holds the black box and it, in turn, holds in place by the other mounting.

A good example would be the mounting's of models like AN/ARM-30 (CAME), MT-1044/ARM-30 and MT-1047/ARM-30.



The AN-1044 attaches to the ground portion of the AN/ARM-30, and it (and also models like the Model 304).

Small anchors at each corner of the MT-1047 are slid into place to lock into posts protruding upwards from the MT-1044. These anchors and posts provide a good, firm lock for the two mountings. Which is fine. But—both are bolted for safety wiring considerations.

So, always check your mountings. If they're the two-part type, take a little extra time to safety wire them together.

MT-1047/1044-01



BLACK BOXES

When it comes to attaching the black boxes to planes—it's complicated. The designers on every mounting make provision for safety wiring. All are bolted to wings safety wire one way or the other. If I'm wrong ...



Take the two wing nuts on the MT-1046/MT-11. Safety wiring is done separately under each of the two mounting screws, using the same wire technique that may, any loosening of one nut will affect the other.

In the case of mountings like the MT-114/1044, the mounting bolt—as well as the fastener—was bolted. That way, the safety wire can run from the fastener directly to the mounting.



FRUSTRATION

That's right ... that's right. Safety wiring some dynamometer calls for some fancy fingerling. It's sometimes tricky enough just to release the numbers, let alone wire for safety.

One way to ease the strain, though, would be to get things started before dropping the dynamometer on its mounting. Thread the wire ... wire it ... and have it ready to slip into the gaps on the mounting. That should ease the work ... by making sure all the stress that hold the safety wiring before the tool is dropped goes to the mounting.

As always, the few more minutes of good F&E sound operation will pay off when the mission is underway and it's too late for "one more check."



SET YOUR CAP



Really no need to argue.

Some caps do look better worn at an angle. Certain styles wear another way.

But never use with the correct lamp cap that fits over the top of the projection lamp in your standard Projector (P11-037(A), P1P). That's a real shield cap that has to fit snug and repeat every time. No room for error.



DON'T GET A BUMP OR A SCUFF TO PROTECT THE GOOD LAMP LIFE

THE SHIELDING TUBE...



LAMP CAP TO BE TIGHT



... LAMP CAP TIGHTEN

Yes, there's nothing so keep it from sliding off its glossy perch. That sliding does just keeps it from getting company from the hooding. Any easy bump when you're setting up the projector ... or maybe somebody starts on the table while the foot out and jam the machine. That's all it takes, and the cap's rattled.

And that's when the light starts playing tricks. These shielded lamp cap lets light escape up and out through the air currents at the rear of the hooding.

It also interferes with the projection on the screen and also could block the flow of air from the blower... And if the cap slips off the way off the lamp, the whole projector lights up from and over. Which means the show is over.

So, care is the word.

Can you so bump or jar the projector if possible, either before, during or after setting up.

And you so check the cap for proper position just before the show starts.

WINDOW CLEANING



Been getting bug-eyed viewing your video meters and radar scopes? Or may be getting phony readings from them?

If the answer is either of those questions is "yes," check your steering habits. Chances are you've been using a dry or oily cloth, which puts fine scratches on the plastic windows.

And, in some places where the humidity is low, wiping with a dry cloth

generates static electricity. This in turn can stick up the meter needles.

It's a simple matter to remove these problems. Just dip a few sheets of detergent into some cool water. Dip a cloth into the solution and wipe your windows. That's all there is to it. No need even to clean or rub dry.

Depending on local conditions, you'll have a clean window for months.

It goes without saying that this material is M.I. if you're in an icy climate where frost or lugged fumes will keep coming at you after you've wiped a damp cloth over 'em.

HEAP BIG WIND

Sometimes more wind comes at the loudspeaker than comes out of it. In it is with the 15,000 loudspeakers whenever a 100' wind hits it and sends it down on its back big time.

That boom is a bit top heavy anyway, and when a fairly heavy blow hits it, the combined effect is enough to send the whole works sprawling.

Unless, unless the tripod support assembly it gives a helping hand with some simple guying. Anything that's handy will do. Rope. Steel wire. And a few guys pounded into the ground to



tie the guying to. That'll remove the speaker and handle any wind problems that might come blowin' along.

FIRST AID FOR CORDS AND CABLES



Diagnose

You've just got to watch those sensitive cords and cables connecting your equipment on your tactical vehicles.



They may look like they can take a lot of punishment, twisting, kinking and other roughhousing. But, as the old saying goes, looks can be deceiving.

You can speed your cords and cables along the road to an early grave by dropping kinking over on them, giving 'em the heat treatment, spilling paint, oil and stuff on 'em or just plain overloading 'em.

Sometimes they'll be harder because of things you can't control... like temperature and humidity changes and

normal wear and tear.

But you can spare them from bending or kinking.

A good dose of **PM** will go a long way, too. Checking daily for trouble in the installation is a good way to begin. This looks to repairs and replacements before your equipment gives you the other treatment.

Our main thought is keep handy when repairing a nick and or cable... never splice it.

BLUE

Confessions

JULY
DOPE



I WAS THE
BRIDE
OF
IROAN

... I was just a young
apartment from San Francisco
... how was it to know what
my husband was doing
to the Army Supply System.
That was day ...

Things will be just fine. The Mustangs make another notch and record a new high!... They certainly do! Just what I needed to start out in the game.

NEW LOOKS WOULD SUIT YOU!

NOT A GIG THE WEEK... WOULD MAKE A GOOD IMPRESSION WITH THE NEW C.O. BOB BOSS FOR GEAR (LOOK THROUGH)



WELL, I'D BE GLAD TO BUY A NEW GIG!

WHAT KIND OF GIG ARE YOU TALKING ABOUT? I'D BE GLAD TO BUY A NEW GIG!



YEAH, BUT THE MONTAGUES ARE FULL... THE MONTAGUES ARE FULL... THE MONTAGUES ARE FULL... THE MONTAGUES ARE FULL...

SO DON'T WASTE YOUR TIME AND YOUR MONEY... HAVE LITTLE MONTAGUES!



LOOKS LIKE I CAN GET MY GIG... BUT I'D BE GLAD TO BUY A NEW GIG... BUT I'D BE GLAD TO BUY A NEW GIG... BUT I'D BE GLAD TO BUY A NEW GIG...



WELL, HE'S GOING!

WELL, HE'S GOING... YOU MAY COME BY NOW!



There's still a little bit of time before the next delivery of the parts.



BUT, SARGE, THAT MACHINA'S ONLY GOT A LITTLE MISSING IN THE COILS... I DON'T THINK WE CAN REPLACE ONLY AS WE'RE ENTITLED TO.



... BUT IN AN' LAST MORTAR WE GOT AN INSPECTION HERE...



LOOKIN' THE MACHINA ON THAT SIDE?... LAZARUS? LET'S REPLACE THE MACHINA THAT'S MISSING!



AND DO THOSE INSIDE COMPONENTS DON'T MAKE THE MACHINA THEM OUT.

SARGE, THE COILS IN THE COMPRESSOR DON'T CAN'T LAZARUS... I CAN'T GET IT OUT AND THREATEN IT LAY!









BEEN SEEN' THINGS?

Dear Mr/Ms/Ms:

Have something like either day that just shouldn't be—as far as I am concerned I think my eyeballs are as round and round as anybody's. It was a —10P, Right Party and Special Tools Ltd (RPSTL), for a piece of Special Corps equipment.

Now, Sarge, as I read the AR's, the —10P is the same as the Basic Issue Dress List (BIDL). In their case it should show up as a separate publication in the form of a —10P.

AR 340-3 (May 76) seems to set things pretty straight as far as how parts manuals should be published, and I didn't see any mention of a separate publication for —10P's.

What do you read the situation?

Apr 11, 77, 01



Dear Sergeant H. E. D.,

Nothing at all wrong with your opinion, Sarge, even though you did see some Special —10P's.

AR 340-3 indeed puts the word on maintenance manuals—all the way from the through 7th edition. And for one thing, it says that the RPSTL's for 3rd through 7th editions will be published separately from the technical manual.

First, it also means that each BMW's will carry the least "F" above the TM number. Also fine.

But—making it said about publishing the BMW (-IMP) as a separate publication as long as a TM either is in existence or being published at the same time as the least issue list.

ALL COPY
SUBMITTED TO
BMW OF AMERICA
INC.



In TM numbers for general approval to the you publisher a change to the TM BMW (-) TM is being published at the same time as the TM. In the future you can expect to see the TM and a least issue list.

If an BMW—number is about to be published, then you TM is published in combination with the TM and you can get a -IMP - IMP a couple - IMP.

Now, exactly as you mentioned, some BMW's did show up as separate -IMP publications. No sweat. That was mostly because some writers in the AM were granted. Suspicious as the rule, I might say.

Which shouldn't happen again, since the BMW now is published in combination with other material when an separate operator's manual is planned.

So what it boils down to is that the books, tools and parts that need to be carried in the Big T's are now found listed in your TMs and TM-type parts manuals.



Dear Hoff-Heist,

Help! If you've got a couple BMW (some include support) cargo trucks with the extra long wheel base, and we need another to go with them. Can you give us the stock number? Can't seem to find it anywhere in the IMPs and TMs.

CBFO W. J. M.

Dear Mr. W. J. M.,

Right! The profile for cargo body, 4-ton, XLWB, M15, has been assigned P20 2140-770-1429 (Code 770-1429).

Hoff-Heist



CALL 1-800-770-1429

NOT NEEDED

Dear Wolf-Man,

How about straightening out me or the inspector with gipped or after giving me Mike-Blue manuals a going-over?

There is a self-locking nut on the end of the propellant lanyard. And the nut gets affected in its turn from the machined edge of the flange on the booster about ring assembly. You had something to do in P-1 over 100.

What... this inspector said that there's supposed to be a washer, 1/16 in OD, 1/2 in ID, between the nut and the washer. But he couldn't show me any publication that put it there, and it's not mentioned in T.N. P-3011-2.

Data Sergeant M. W.,
AFSCN, W.

I have to go along with you. There's nothing anywhere that calls for a washer going between the nut and the flange.



TRUE IGNITERS

Dear Wolf-Man,

Should the rocket motor igniters for a Nike-Herc all come from the same lot? Some inspectors that they should, that we have no life in 486.

W. J.



Dear W. J.,

Although the M12 igniter has four M141 spools, and the M13 igniter has four M1 spools, the two models are identical and they are interchangeable.

There's no requirement which makes it SOP for all igniters to come from the same lot, but it is recommended that the models not be mixed on the Nike-Herc rocket motor.

It's best to use igniters of one (or the other) model only. And whenever possible, all the igniters for the Nike rocket motor should come from the same lot.

Wolf-Man

GAA SCOOP



Dear Mail-Man,

An inspector gipped our coach for using GAA instead of WP lubricant in the water pump of our commercial type truck. I maintain that IS 125-0138-1 (Rev. 38) gives us the authority to use GAA.

What's right?

Sgt. D. L. G.

Dear Sergeant D. L. G.,

Take that simple, Serge.

IS 125-0138-1 allows you to use any one of three items for water pump lubrication — WP lubricant, GAA MIL-G-10524 (ORIG) Amendment 1 or GAA MIL-G-10524 (Rev. A).

If you want using the Amendment 1 or the Rev. A type of GAA you are in the clear. On "higher level," the three old types of GAA, the MIL-G-10524 (ORIG) or the GAA Amendment 1 or Amendment 2 are used only for chassis lubrication. If you were using them for water pump lubrication you had a gig coming.

Your coach might have a local SOP to use WP (water pump spec NY-G-531) lubricant. That would be the law for you and the inspector.

Your supply depot will have WP and there is no more left in line. After that, GAA will be substituted regardless of any local SOP.

However, you should maintain in requisition WP until you can't get any more of it.

It can get downright confusing if you have WP lubricant in the water pump of one truck and GAA in the water pump of the truck next to it.

The reason is that Amendment 2 and

I and Rev. A greases will mix fine with each other but not with any other greases, not even with Amendment 1 GAA.

Now, if you use both WP lubricant and GAA, you have to remember which water pump you used which on.

Most coaches have found that the best deal is to standardize on modern-type GAA and use it for all water pump lubrication.

Even, the first time it is used, you have to be sure and get all the old grease out. The chassis lubrication you don't have to bother, but wheel bearings, bogies and CV joints have to be worked in dry-cleaning solvent before the new GAA is applied.

When you open a can of GAA you might find some oil floating on top of the grease. If you do, pour the oil off — — — never mix it into the grease.

Another thing, the new-GAA greases have a little different color and run a much finer in the old GAA, but they will do the job even better.

FOR INFORMATION OF THE READER...

WP	DO NOT USE
GAA - 10524 (ORIG)	GAA - 10524 (REV. A)
GAA - 10524	GAA - 10524 (REV. B)

CHANGING ID PLATES

Dear Wolf: Wolf,

Where do I find info on changing identification plates on items which Oshkosh gains from some other tech source?

In short, for example, an Ordnance publication like TM 9-70 (Aug 68) "Convertible Engineer Equipment and Instructions for Installing Equipment Identifications Plates?"

A. G.



Dear A. G.,

Many Organizational maintenance people are not authorized to work over maintenance plates on Ordnance material. Although the plates're not normally needed to repair parts, when you send you for Ordnance equipment, you can ask your Ordnance support to get you for you through normal supply channels. They'll get them from Red River Ordnance Depot, Tinseltown,

Texas, through their respective distribution depot.

If the plates you get are a little different.... they're the new improved plate machine modified aluminum ones. These plates are non-corrosive, aluminum resistant, and paint spots can be cleaned off with acetone. Eventually all the replacement plates will be this type.



PUBS FOR M543 WRECKER

Here are the pubs you need to keep your M543 wrecker in shape. TB 9-2500, 111-1117 (Dec 61), TM 9-1128-111-10P, Changes 1 thru 3 and TM 9-881A. Third class 87th editions will eventually get hold of TB 9-2500, 293, 5671 (8-Sep 61) for follow the crew of the M543.

SHAFTED INJECTION PUMPS

NO PROBLEM?



Roots-Murray injection pumps will work fine. And they'll work around the clock—*but* they won't work dirty.

They won't work dirty because there's no room inside the Roots-Murray for anything less than clean diesel fuel.

Now, one where the dirt comes from.

It could come from a leaked fuel supply. Or it could come from a pump-in placement area that wasn't flushed till you were clean before it's installed.

In either case, dirt builds up across passages, or it gums up tolerances so fuel can't move past filter and into your injectors.

Keep your fuel filter shaft-assembly near injection pump.

So it takes clean fuel in a clean Roots-Murray to keep your diesel fuellet's life full.

Meanwhile, you want to watch the engine on the cam timing screw, the fuel timing screw, and the fuel line connection screws. Too much torque on these screws can bind inside valves so fuel is lost.

Oh, screws you can do everything right and nothing's working with a pump that's defective in the first place. In a case like that, best thing to do is ditch the old your LTR before someone else does it.

Don't say that all shafted pumps are like this. A good pump can do it.



Suppose, however, you have a fuel filter (2) and a fuel line (3) with the fuel injection pump. The Roots-Murray fuel injection pump. Plug water in this engine is 1-1-1-1-1-1-1.

Now if it's dirty, I believe that's what you're looking for. You'll have to replace the 2 and look out the results.

If that pump is not used, replace it with a new one. The fuel injection pump is not a simple device. It's a complex device. It's a complex device.



The fuel injection pump is a complex device. It's a complex device. It's a complex device.



Does your gas the pressure of this No. 1 screw? Well, just fit back together like it says in LTR 1-1-1-1-1-1-1. Checkers are that's all your fuel-line needed to get the No. 2 cylinder back to business.



TRIP THE CIRCUIT
ON MOON

REARWARD SYSTEM
REAR-3 AIR CONDITIONER

COMPLETE
THE JOB

CONNECTORS GOT THE SHORTS?

You know there were electrical connectors that join the condenser and the evaporator stage assemblies in the Fairchild Service air conditioner, Model F34A-3?

If they aren't working here, here's what you do:

1. Place all controls in the OFF position.
2. Remove the power supply panel from the evaporator stage assembly.

3. Remove the wire cover panel from the evaporator stage assembly.

4. Look inside the evaporator coil, and make sure two electrical connector plugs have their pins. If the coupling pins aren't there, try an lightly wire-cut wire snips.

5. Run the wires out of the location you removed in 4.

6. Open the connector, sliding back the rubber clamp, tapered down and gasket from the back shell.

7. Then, apply silicone sealant (supplied in the connector body, mixing ring, back shell, and clamp, form) all you'll need: Insulating Teflon Compound, electrical joint form, 8 or 10, 98, 99, 100-1-8000 999 270-271-0901 (Fig.).

8. Now, reassemble the connector.

9. Look inside the condenser pipe and repair the two pins in a coupling of the same size-paned.

10. Reassemble the plug-in fittings.



While you're about it, with power and panels off, might as well use this same procedure to check all other similar connectors and plug in this equipment. Thompson could bother them, too.

This done, all you need to do is replace the panels, connect the power, and you're on to begin a sleep-free operation.

SNATCH, LATCH AND PATCH

Suppose you have an air conditioner, like the DAVID BITE Fairchild Service YL4-3, hung onto the tail of your transportable vehicle now?

Then you want to remember this combination air cooler and heater is a

lower plane, designed to hold a selected lift.

When you take it outdoors, and hang it on clean bare air on any's shoulder, particularly all its operations are performed under "normal conditions."

Operator's job TM 5-4400-210-12 warns you when made being to ready or duty area—so well as avoid high humidity or air water.

There's no wonder "normal" conditions that can spoil results.

SNATCH, LATCH, and PATCH—performed with as great before you take to the road—can save hours of fuming later. Here's how to do it.

LATCH the

condenser air duct from top of the unit.

LATCH the

CONDENSER



PATCH the

condenser gill with a standard-sized air condenser or other fittings as shown and set in track.



SNATCH the

hook as it holds control line and that the air conditioner's outside high in door.



They done it, and your rig arrives in shape to operate.

ROCK 'N' KNOCK

You know how those little 1.5 KW Whippower generators rock 'n' roll on their shock absorbers?

That's good—it cushions the operation.

But when your Whippower starts knocking, that's bad. Before those little egg-beater knockers knock itself into a dead-line, here're two places to spot the trouble.

First, you walk your left eye at the front motor under the normal exhaust shield for the upper angle before the end bell is longer' away of the motor. If no, it's OK to see the end end of that angle belt.



There for you should show the end, even if it's not knocking' away, better see if there for look, before it gets the motor.



THE UPPER ANGLE BELT
NEEDS TO BE PROPERLY
MOUNTED BEFORE THE
GENERATOR STARTS



SEEK WALK DOWN
TO ONE THREAD
DOWN BUT FOR
PROPER PROTECTION

Next, you walk your right eye at the distance between the frame number and the cable connector on the left side of your Whippower.



If the connector's close enough to knock' when the rig is running', better move it out of frame's way.

The generator's little screw in the connector, then remove the threaded sleeve from the connector. Then you can re-size the "T" fitting straight up, so it won't hang into the frame.

Now look the sleeve, tighten the two screws, and you're back in business. Rock 'n' roll, it's back 'n' bang' out!



CONNECTOR MUST
BE FRAME END
WHEN ENGINE
IS RUNNING



REMOVE
THIS SCREW
TO
REMOVE
THE
SCREW

REMOVE THIS
SCREW



REMOVE THIS
SCREW

CONNECTION CORRECTION

Could be your alternator's got some wiring that's connected to the "bypass" when it should be connected to the "bypass."

Happens only in some Mustangs, FORD 6079-142-1415 (Serial 807 thru 817), and some Broncos, FORD 6079-142-1418 (Serial 811 thru 854).

Even if you have one of these units, try this:

Find the wire that runs from the cathode side of the diode mounted on the tray in the lower right side of both instruments.

If it's connected to the positive terminal of the fuse holder—leave it in its position.



But if this wire is connected to the light switch—disconnect it. Then re-connect it to the space terminal leg of the fuse holder, where it belongs.



GAGE YOUR ANGLE



Using your Fordwood cross-bevel gage-block is no sweat for your FWD cross-craze.

But—while the fuel gage reading low, trying to climb a steep grade with the rig might be a different story.

WATCH YOUR GAGE ON AN UPPY HILL



SEE WHAT I MEAN?



SEE?

IF GAUGE AT 1/4 TANK
(GAS IS AT 1/4 TANK) YOU'RE
NOT AT 1/4 TANK!

FILL 'EM UP!

You remember, a low fuel tank and a steep hill don't make for a good combination.

Play it safe. Fill up your fuel tank before you go on any hill climbing expedition . . . and, don't let the gauge fall below a reading of 1/2 full.

TWO SCREWS ARE BETTER

You know where the strongest switch sits on your Hit-Gas CE-600 generator—in a housing that's fastened to the engine, on the left side of the rig!

Well, don't let only one cap screw holding that housing to the bracket. This is not good. The loose bit of housing drops the shaft and disrupts use of line.

Here's what you know—why you'd do this to the shaft or adaptor.



Five things you can do to keep this trouble from happening to your Hit-Gas—

1. Keep the cap tight on the existing screw cap screw.
2. Use your support posts, correct, steel jacking the cap screw with long enough to fill the switch housing and mounting brackets a second screw.

The added screw bolts can be elongated a bit so they can line up the shaft before tightening up on the nut.





LEAKING STUDS

Water in the crankcase of an engine spells T-R-A-C-K-L-E.

The IHC Model UD-500 engine that powers Enginomat equipment like your Link-Big and Barber-Diemer trenching machines and the IHC Model TD-20 or TD-30 tractors is no exception. Blame it, first, on wear: most units with this equipment have had a water problem already.

ARE THERE THE SYMPTOMS?

If your equipment seems to be gulping down more water than usual... and the oil level reads full or higher when you pull your after-operation check—could be that water is leaking into the engine crankcase around the rubber seal studs. And, you'd better check it out right now.



USE SPOON TO SEE IF OIL LEVEL IS TOO HIGH



There's no big deal in stopping the leak. If you need help in removing the upper seal studs—the fit is very important for the full seal—then, apply a pointer to the stud threads.



You can use kerosene, white lead, or any similar sealer. If you don't have any on hand, then consider using

Sealed Joint Compound, F38

1-800-233-2391

That will get you on your way.

WATCH THE TORQUE

Now, when you replace the rubber seal studs, tighten them to a torque of 75-78 foot-pounds. Then, tighten the seal studs with 5-10-11 foot-pounds.



BE SURE THE RUBBER SEAL STUDS HAVE ROOM

When the studs loosen, it doesn't have enough threads on the top to thread the cover. If they aren't tight on the required 11-20 foot-pounds torque—replace them.

Finally, check and set the cylinder head seal nut at 180-200 foot-pounds torque and your rig's ready for action.

ARMY AIRCRAFT



NEW 4.5 PER DAY DR...

GET 'EM WHILE THEY'RE HOT

Next to not having already repair parts when you need 'em, being left behind the door on a "Supply of Flight" TWS is listed distribution of aircraft parts area among the widest types.

Now, the Army is trying to improve its air aircraft inventory with late message operations. The new deal is to include the formal MWO or TM Change number and date right in the TWS. That way, for example, you already know MWO 15-77 40-284-87/2 (21 May 61). "Revised Operating Procedures for MWO-1-Change System," would facilitate the inventory storage you get on the same subject.

And the same message storage will give you the TWS from cover file and show it away as soon as the printed MWO or TM showed up.

When these inventory instructions are classified as an immediate or urgent action TWS, these instructions are considered as official Del. pub. files.

References to TWS logging on the formal MWO or DCTM (Time Compliance Tab Manual) on the same subject is forwarded from IC to The Adjutant General for printing so that it can be distributed as printed publications within two weeks.



BOOK SA OR 200.00

While we're talking about how distribution of parts, DA Circular 148-51 (11 July 61) also had big news. Issuing you recently "Army Aviation Files, 1958" is being distributed by direct mailings on every type of using organization in the Active Army and USAR.

Finally, that means "items to not including" locations, companies, detachments, units, service schools, depots and you name it. The mailings of your parts will come from the AGPC (Adjutant General Publications Center) at 1415 Woodson Road, St. Louis 14, Missouri, in all units world-wide.

Now the only way to be in book AGPC will be able to make you get the parts you need in the year or till out your DA form 13-1 right ... and that's where DA Circular 148-51 comes into the picture. It tells you how to get your parts without going through the old pay publication routine.

SEE THE NORMAL NUMBER AND DATE

Under this word "normal number and date," you're no longer going to see the old way referring you to a TWS message number. Instead, each TWS will simply read:

"This message will be reviewed and returned from this upon receipt of printed copies of publications."

Keep the TWS to you and the printed publications both for the formal job number, date and title—you may need to refer to any message number, anyway.

30 OF THEM

Your 11-5 can file as its. Look across your request for automatic distribution.

But if the formal publication is not in your hands through automatic distribution within 60 days of the publication date to the TRN, registration is by the formal pub number and date (from the TRN) on a DA Form 17.

- 1. INFO IS AVAILABLE TO THE OPERATOR THROUGH THE 11-5 SYSTEM
- 2. APPROVAL OF THE 11-5 SYSTEM, THE 11-5 SYSTEM AND THE 11-5 SYSTEM

DON'T PANIC - PLEASE

If you see any unusual signs coming from your system, tell 'em to please lay off and give it a chance. A careful reading of DA Form 11-5 should make it clear you don't want to go to TRN for any of your parts.

The 11-5 handles the whole pub-operation, just as it says in para 15c of AR 11-5 (11 May 61). As always, it takes

a little while before you see them new parts listed in the DA Form 11-5 index of each month. After all, you don't expect TRN to arrive the index each week, do you? The fact that you've got the formal pub date and number in your TRN is all the authority you need to order a delayed or extra copy of a new pub.



The roll of a smoothly paved ramp or runway seems to make some aviation ops a little less powerful in the hands and feet. Driving (stilled) vehicles and

rolling aircraft like your car really look to building up a total collection of best aircraft parts. So please hold it down—on a hot wheel!

HIT THE DECK

Unguided missiles? That's what some tanks can become when a wingering man in his "hood" landing. Blind his, etc., have been known to swirl through the air for several hundred yards during a stubble. So if you're ever any accident or accident about to happen, hit the deck. It's your best or the best protection against these killers.



BUTTON UP THOSE EMPTIES



A swimsuit is something a guy just naturally goes for. But keeping that shape requires a little care!

Take those long containers your shoppe main crew takes care in. These 'em right and they'll keep their shape for an ever and ever. Otherwise 'em and they'll buckle or warp so you might not see them again.



A lot of empty blue containers are being damaged because all the blue buttons are not secured. This happens when the containers are shipped back to the shop. If you secure only some



of the buttons you won't get that rigid effect that a fully secured cover will give you. Then when the container is lifted there's more chance that it'll warp or buckle.

Unsecured buttons that stick up may even snag on other containers when the containers are stacked on top of each other. The sliding action you get can tear those buttons clean out of the container and tear up the metal ... maybe even split the container.

Securing these special containers saves Uncle Sam's taxpayer dollars as they always must run. That's why you may find them labeled **DO NOT REMOVE - REUSABLE CONTAINERS**. The only thing is they should be secured in the best possible condition.

Your new blue containers will keep their shape every time—if you button 'em up right!

A WINTERED STAND
WITH FOUR LEGS OR...



"INSTANT" MAINTENANCE STANDS

Take one Sempron 0-400 or Red Dog 0-400 engine, connect—add legs—and you've got a quick, portable build-up stand. That's all the important machinery for the latest "instant" packaging deal in Army Aviation.



Simply, the whole idea is to attach four mounting legs to the engine mounting holding flange. This gives you a lightweight, fold-type engine stand for either your Sempron 0-400 or Red Dog 0-400 and -15 engines.

The legs are made from 3/4 in. angle iron for those opposed engines. A difference: the in-lod legs can be made up to adapt the T-53 jet type engine-mounting into the same "instant" deal.

To have field maintenance make you up these leg sets. Then keep them in your kit—back in special units for engine changes.

That is gonna save you time... say about three man-hours... say save you may have to pull an engine change in the field. That big, bulky "L" stand, well-known, is fine for base shop types, but nobody wants one in the field where the mobile wraps roam.

You might say this is a step in the direction of "instant maintenance."

LIST OF MATERIALS

Part No.	Qty.	Description	Material
1	2	3/4" x 3/4" x 1/2" L 12' leg	steel
1	2	3/4" x 3/4" x 3/4" L 12' leg	steel
1	1	3/4" x 3/4" x 3/4" plate	steel
1	1	3/4" B.S. steel stud 1" long	steel
1	1	3/4" B.S. steel stud 1" long	steel

NOTES

1. Stock all items against 1/2 inch.
1. Base plate to be welded with BS 0-123.
1. Photo available with BS 0-123.
4. Approximate weight per unit: 1200 steel—14.8" 081 aluminum—5.1"

SAFETY-OF-FLIGHT TF's...

PUT 'EM WITH THE -10

Scram a few operational Safety-of-Flight supplements (now called TF's) are causing less confusion—when they get around more like regular TF's than priority safety info.

Take, for example, TR 15-1129-207-104 from "Engine/Standards for Periodic Noise (102-1 and 102-1A Aircraft)."

Although it reads "Safety of Flight" in red on the header, and says it's to be distributed the same as Operator's and Crew Member's Instructions and even mentions TR 15-1129-207-10, its para 2.... states types may still want to file



it with the other TF's in your library.

Although this is just a temporary arrangement, a rack bulletin is the only way the Army has right now of supply-



meaning a work manual and, since the -18 Operator's and Crew Member's Instructions is cataloged as a TM, all supplements have to be called TB's.

But the average Army Messman usually keeps his TB's filed separately. This is real handy for any TB that supplements a -20's or -24 maintenance manual. But it's

just the opposite for Safety of Flight TB's.

To make sure the word gets around that Safety of Flight TB's go directly to everybody charged to operate the aircraft concerned and any extra copies are filed with the -18 in your unit library.

"CA—RUNCH"



The law of gravity being what it is, a bird does come in for a hard landing or shabby nose and then and maybe end up in more than one place. But when a parked ship gets picked up by gusty windward birds with a creaking sound in a heap—that's something you don't expect.

That don't just what happened recently to a Bird Dog (L-19). In the face of an approaching wind and rain storm the bird was left off by its host—without even one moving line to keep it company. When the storm broke, wind gusts lifted that 2,000-lb plane just as easy as your plane, and as it built down run-or-creep—causing ma-

jor damage.

Is there some that bird wasn't meant? Well . . . maybe someone overlooked giving the wind its share, so the ground crew didn't bother through. But more's likely the wind gusts would not be stronger than expected.

Your weather outfit can give you reliable info on the expected velocity of mean winds. But you can never really be sure how strong the wind gusts will get.

Unless the best protection you can get from any means is to move your plane into a hangar. If one's not handy the next best bet is to tie it down like it says in your -20.

ALL PRESENT 'N' 'COUNTED FOR!



Heard about the mechanic who completed a top-notch maintenance check on one of his shoppers—and left a tool behind in gear? It?

Yep... no one was more surprised than he was when an inspector tapped him on the shoulder with a hex wrench he left in the gear head.

After all, he'd been working around screws so long that he knew all the angles. None of them logging a back-breaking tool loss all the way out to the last hole on the line. (They always seem to pack him on the end of the line.) All he needed to do any job was a few standard wrenches and other tools stuffed in his pockets or clamped in his ratchet ratchets.

Of course he never used to be careless with tools. During his Army schooling he learned a mighty good habit of working right out of the tool box. So he was always very aware of the tools he left behind to feed up on engine or jam any of the screws.

But as he got his feet wet on one job after another he got so confident that he went off the shop and end started taking short-cuts—like leaving his tool

box back at the lounge.

He got away with three run-by-spins a while until finally his over-confidence caught up with him. It just goes to show you a good habit is worth keeping—all the time.

After every job you'll want to make sure you haven't misplaced any tools by pulling a detail check of your tool kit for completeness.

You can check out the Aircraft General Handbook's Tool Kit against the listing in **SM 9-4-11.80-478**, backed up by **DS Issue 52** for pinpoints. If you're working with any of the A, B, or C organizational maintenance kits, you can check them with **SM 9-4-11.80-481** along with a copy of **PI 138**. Since responsibility for those kits has been transferred from Ordnance to the Transportation Corps by **AR 700-9.140** (14 June 81), those kits will be found in the **SM 11-series** parts in the future.

Bottom... when you use your tools keep an eye peeled on 'em until they're back inside your tool box. Your aircraft may live to a ripe old age if all your tools are present and accounted for.

NO CONFLICT



Dear Wandy W. Woodcock,

When is TB AFM 23-14 used as an authority for test flights and when is the applicable 4 inspection handbook used? I was told that TB AFM 23-14 was used only in a few instances when the 4 would not apply (such as one hour T/M for engine or cylinder change)-was that TB AFM 3 would govern T/M entries on DD 781-2.

We have people here that say 23-14 is the authority for all test flights and form entries.



Dear Waggon, C. C. D.,

Those people are right! TB AFM 23-14 (28 Jul-44) tells you the conditions under which you're authorized to make test flights for all aircraft. Each 4 or -30's inspection section only tells you the how and when to check when the TB has already made it clear that a test flight is required.

The TB is also the authority for making a test flight check sheet, while the 4 or -30 just tells us the details on how to make up this check sheet.

Furthermore, TB AFM 23-14 requires test flight entries on the DA Form 281-2 (the old TB-1) and TB

AFM 3 does not cover test flights. In fact, TB AFM 3, page 4, says test flights are taken care of according to TB AFM 23-14. It actually made TB AFM 1, but that paragraph hasn't been changed since the 1938 printing of TB AFM 23-14 superseded TB AFM 1- and the 1948 version has now been superseded by the 1961 TB.

TB AFM 3 covers all form entries other than test flights. So as long as there's no discrepancy between the 4 entries required by the test TB's, just follow TB AFM 23-14 on test flight entries.

Wandy W. Woodcock



Dear Staff-Master,

Do you have any information on the authorization of safety seat belts for military vehicles? The support unit for this organization said we'd have to get approval from Chief of Transportation under the provisions of Change 1 to AR 20-1, para 20.

Is this the only way out or do you have a short cut I can take?

H.C.L.A.C.

Dear Sergeant J. A. C.,

You already have Chief of Transportation's permission to install seat belts.

The authority is in a letter from TC ATM-FO (OC of T1 to all major commanders on the subject of "Redirection and/or Conversion of Commercial Design Vehicles." The issue's dated 1 March 1961 and lists all the technical changes to commercial-type vehicles that're not considered a modification as defined in para 20 of the regulation. Installation of seat belts is on that list, Serge.

This leaves the decision to install 'em up to your local commander. His only consideration is whether the facilities and the money are available for the job.

But besides info on these non-modification type of changes to commercial vehicles, your TC support center is the place to go. Your military vehicle are off-the-shelf commercial jobs and carry TC responsibility.



DO YOU
NEED HELP?



Dear Editor,

Have you noticed a truck that carries a machine gun tower for the workings of a steady bread shopper.

With the front section of the canvas extending out as it does, a natural head is held almost straight up in the air. This makes the regular head hold-up real snazzy, with no other way provided to hold the head up when it's tilted.

Now, you can see what'll happen with these head mounting weights up. A gust of wind or the vehicle moves a bit and some poor guy may find his carburetor snuffed up with his noggin. After we had a serious head injury here in our necks, we found our flapping lid. All we did was make an "H" back out of some old work.

When we go to put up our heads, we take the S-hook, which we keep in the glove compartment. One end of the hook wraps around the head's edge—the other end is hooked on the machine gun mount. Knocked!

Francis Fench
Aberdeen Proving Ground, Md.

WEIGHT
HIGH
LIFTING
BACK
THE
HE...



BUT

THE H-
SUPPORT
WEIGHT CAN
TILT, SO...



SO

HERE'S THE
S-HOOK ON



A PURER CURE

Dear Editor,

I just saw an old issue (2875) where you talk about the foam our method for curing factory marker corrosion. A few years ago we experimented with another method and found it to be superior.

We used a small 80-gallon drum, about 18 inches high, as a tank and kept a solution of water and bicarbonate of soda in it. We reconditioned the tools (the Chemical Corps demands, mixing three pounds in 12 inches of water).

When we found a surface corroding, we took it off and dropped it into the solution for about 10 or 11 minutes. After drying and repainting, it was sure to have a resistance of corrosion from the acid used on the surface. We used to make a new back-rack work.



Old Note—Great idea for shop people. That glass jug's a good idea, too—but make a fresh batch occasionally. And when any acid splashes in the eyes, never follow the water and soda solution with straight water for at least a half hour—then see the doctor.

RACK 'EM UP

Dear Editor,

Harro's misplaced a panel or stopped on a crawling stand we started using a crawling rack. It's just a few wood pulleys sliding side by side over to the wheels. We're even thinking of making them into shells by adding rollers on the pulleys.

Old Man—Sounds perfect for keeping a rear work area and preventing backed slides.

In addition, we found the solution very handy from a safety point. If anybody got acid on his clothes or skin, we would wash it down with the solution immediately, neutralizing the acid action. We also kept a glass jug of the solution available for anybody who might get splashed in the eyes with acid.

Another way we used the soda solution was to neutralize any acid that comes from the engine compartment—on the hot wall and wires or hoses—so that the coverings of these items would be safeguarded.

While this soda solution method may not be handy when on the move, or under field conditions, I recommend it highly whenever shop conditions exist. I believe any installation safety officer will go along with this method.

Ltj. John C. Foley
Baltimore, Md.



Wtj. James H. Moore
Miller-Pid., S. I., N. Y.

WHEELIN' DEAL

Dear Editor,

Anyone who has ever wheel-lowered one of their 1900-lb (approx.) E-APUs (OHS# 2804-01 1-02 01) knows hanging to flight line towers isn't an easy job—right even when you get to the job.

We made 'em much easier to handle by adding a lower wheel and a handle on 'em. Now, a tug can tow 'em across the field.

We put the wheel assembly on without modifying the APU's base (see pic, following letter and books and scrap parts were used).

Get out three pieces of 1/2" x 1/2" x 1/2" (approx.) steel bar. Cut two of them 18 inches long and the other 18 inches long.

Weld the 18-inch flats to two of the ends of the two 18-in. pieces, and mark and drill holes in the channel ends to mate with the APU's base rails.



Bake or dip up a handle and weld a "T" on the wheel:

Weld a landing with a diameter large enough to take the "T" on the end of two pieces of scrap iron that's like a 1/2" x 1/2".

Put the "T" in the two landings and weld the scrap iron bars on each side of the wheel to the center assembly.



Put up a piece of 1/2" x 1/2" x 1/2" steel plate and two pieces of 1/2" x 1/2" x 1/2" plate. Weld one two plates on each side of the 1/2-in. plate, then weld these to the top base end of the channel iron rails.

Then arrange around all you had a 1/2" center (either size may work) with about no variety. Drives and drill holes thru the 1/2-in. plate and bolt the center to plate.



This simple idea gives a man a lower ground' and works wonderful.

(Ed Note—Good idea. Looks like a world cover-up more broken books. This is a good temporary device that doesn't modify the basic design of your APU—over of a dolly. There's an engineering study under way that may give you a bit later on to make a permanent change in the chain of the important link item.)

Comic Rodd's BRIEFS

By Rodd Rodd

3000 phone card

Some of the early 1980 models had a 30 called card for the outside phone. If you got one of these obsolete cards, get your direct support unit to supply **3000 8-1800-318-3171** (line 11). They'll give you a new handset—H-181-13 instead of H-40-17—and a card that'll stretch to over 10 feet. Check your handset. If it has a H-40-17 label on it, it's the wrong one.

Wanted pubs—direct

Distributors of wanted publications **direct** to the firing unit from the publications center started in January. If your publishing minutes, **18** or **24** Form 13-10 01 Oct 81 and about it is today in USA, **103 Publications Center, 1000 Woodson Road, St. Louis 14, Mo.** The form tells **6**, lists exactly how many copies of which wanted pubs to send your unit—**direct**. **24** Chapter 113-41 01 Oct 81 gives the green light.

LC key is now 78

Hold it! Don't your ears or noses of all in any of your tank (M60 etc.) Command air cooled engines. All your lists now've checked out the latest change in **78 040 824 01 Oct 81**.

Here's why. The oil selection key for all these tank engines **LC7's** is now changed to read like this.... Above **+107** use **OE 30**, **+137** to **+197** use **OE 30**, **-107** to **+407** use **OE 15**, and **07** to **-67** use **OE1**. Pay particular attention to the note in the **78**, it's important.

By the weight

Weight your fire extinguishers every three months like they're in most of the combat vehicle EM's. In the past, you've seen it say every four months but that info is out of date. By the weight, load a loaded extinguisher as gently as a loaded shell....It's dangerous. Don't drop, hit or bang it.

Switch cover

Has a copy of **AWO 8-1489-808-20-0** shown up in your tank outfit? The **AWO**, dated 12 September 1981, is an urgent one telling you how to put a shield on certain serial numbered **2400181** and **2400182** loader-transmitters. The shield protects the base-based wires that switch on the fire assembly.

Check that MG

Take time out and check the head-space and timing on your **30** cal machine gun just before you start getting load again on the firing range. Some guys are skipping this check and paying for it with a long ride on the side track and a broken weapon. **FM 23-61** gives you all the steps you'll need to get headspacing right.

Open that cover

The latest wrap on loading the **M60** machine gun is that only the "open cover, safety on" method spelled out in **EM 9-1805-214-13** and **EM 10-67** will be used. **FM 23-67** also describes a closed cover deal for loading. This closed cover way has been found too dangerous to monkey with—no phooey, don't use it.

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