

Issue 173

PS

1962 Series

THE PREVENTIVE MAINTENANCE MONTHLY

THAT'S
THE SECOND
UNAUTHORIZED
"IMPROVEMENT"
GEORGE HAS
MADE
THIS MONTH!



THE NEW
PS PREVENTIVE
MAINTENANCE
MONTHLY



YOUR M60 ROUNDUP



HOLD ONE ACE BEFORE YOU PASS ANOTHER ROUND, I'VE GOT AN EYE AND AN EAR.

WHEAT OR T. COOK THROUGH YOU UP A BIT.

HANTS TIPS AND LOTS OF HANDS DOPE!!

SOMETHING BACK A CYCLE, CHANGED A PART OR THE M60, MAKE SURE YOU'RE SIGHTING HOW FAR THE M60 WILL RECOIL. GET YOUR APPROVED TO MAKE REPLACEMENTS READY— HERE'S WHAT TO LOOK FOR!



TRIGGER BOX CHECKS — It's best to wear your slippers on it and the shot's standard.



OPERATING BOX — It's gotten in the past that there's a hole in the back of the operating box.



OPERATING BOX SPRING CHECKS — Check the spring. The spring should be in the right place. Check the spring for the shot's standard. There's also a test.



TRIGGER BOX CHECKS — Check the trigger. The trigger should be in the right place. Check the trigger for the shot's standard. There's also a test.



Spread the operating box and make sure it's fixed, get your slippers to check it all right again.



Be it in the middle, get yourself a new set.



Just like you know it and know what, you'll be able to get a look at it. It's not to be used.



Remember to check the back of the box. It's got a hole with a hole and a hole of the box and a hole of the box and a hole of the box.

TIP — The trigger operating with your M60 — one of you want to see your own and see the operating with your own. Pull back the trigger spring-like ... and then let it go just in time. This keeps the trigger from cracking from the use.



You know what happens when you have one wheel west and two on the east coast. Right? . . . the gun keeps on being with the trigger released — like



a runaway mag. Concern, you can take care of this situation by opening the cover or twisting the access hole. But why pile up trouble?



At one time there was a problem with oil leaking into the loader, but a new design loader turned out to be the answer.



A GARDEN

Your weapon got the new gas cylinder plug — the one with the hole in the base itself? It should . . . and you see the hole by running a piece of safety wire

through it . . . inserting through around the gas cylinder . . . and then twisting the ends. This keeps the plug from loosening and maybe dropping out.



THE NEW PLAN
AND HOW...

One day you might come on a plug that has no hole, but don't have a groove cut in the base of it — like a slot in a screw. This is a homemade deal, and a good one, till you get the loose plug. The idea is to put the safety wire in the groove and then tie it around the gas cylinder the way you do when the plug has a hole.



Are you remembering to keep the piston and inside of the gas cylinder dry — not wet with oil? Oil combined with the heat of the piston as it moves can add up to lots of carbon.

As you know . . . you should hear the piston move back and forth as you move the gun side-to-side (twist the foot on the rear, if needed). If the piston doesn't move, there's a good chance that it's been coated with oil.



You don't want to try to scrape oil off the piston — either inside or out. The oil's hazardous. Most any piston will run on brown and black after being the gun for a time.

WASH UP THE OIL . . . DON'T SCRAPE IT.



You can have cleaner and a rag to work on the outside of the piston. On the inside use bore cleaner and a cleaning brush. (Yes, use it if the piston's run down-up and back, get your answer to clean it with carbon removing compound PC-115A.

CRACK UP

So you go to clean the gas ports for the first time and the valve runner doesn't disappear inside the gas-cylinder and heard the way it's supposed to.

Next check off lighting it . . . the tip might break off. On some weapons, the barrel and gas cylinder ports don't quite line up . . . so the round won't pass through 'em.



You know what to do if somehow you lose the runner on your combination semiautomatic and round won't? You don't know what's left away . . . that's the case. Your support people can get a new runner on the way.

SHOOTING ALONE



You probably heard it before, but it's worth repeating. If you can turn the flash suppressor up to one direction of an inch it's OK. And if the suppressor moves sideways or up and down as much as the thickness of half-a-bread loaf, it needs to be fixed yesterday.

Your M16 has a space barrel . . .

put in the plunger and then the spring, the spring will seat to one side under the nut. Results: a jump during firing.



BRICK BOLT MUFF

There should be the days of heated debate about hole plugs—now that new nuts are in the supply system. You can tell the new plug in a flash. The clue is entering and a plunger is in the pin hole to

aid in holding the hole plug pin in place. Also there is a disk and insert loosened into the plug.



Looking for a good view of the tin when you assemble your hole? Just put the large hole end of the firing pin bearing over the back end of the firing pin. That'll show change you when it comes to room for the bearing. And with left-over spring, you'll have a ball trying to screw in the hole plug.



There're some other hole parts that need special watching when you put them together. Be sure the roller end of the extractor cam is forward. If not, you won't fire anymore. And check the ejector pin. If it's sticking up, the hole will jam.



You should be in good shape with firing pins now that the old ones — those that would break at the base of the spoon — are all but out of the picture. This doesn't mean you shouldn't check the firing pins before you put it in the hole. Not on your life. And one good way to spot a crack real fast is to hold the pin at each end and flex it. If there's any kind of crack in the pin, this one will find it.



SEE ANY CRIPPING OF THE LOCKING LUGS ON YOUR BOLT? ...ASK YOUR AMMOBER TO STONE THE LUGS! Jump along, 'ON GOOP, AN' NEM!



It's an old story, but one that needs revisiting. Close the gun's cover only when the bolt is to the rear. When the bolt is in any other place, its cam won't go into the feed cam assembly in the cover. And slamming down the cover with a dead like this can sure guarantee a complaint or three.

Remember the words remembering... when you close your weapon, make sure the bolt is forward. When it's to



the rear, the operating rod spring is under unneeded tension.



by a long way

NO SPRING



You jumped to participate . . . that's what can happen to the fuel tray holding powder a long while. The powder plants refuse to hold on to the cover hole. Could be the tray has had the cover. Maybe the powder is more. Or the



powder spring is also. Let your answer take a guess.



Move to the hole that forward with the barrel out of the receiver. It's one way to wind up with a barrel fuel tray assembly.

There's a real way you can make when you assemble the cover on the weapon — forget to put one end of the

spring in the hole in the receiver. With out the spring in the hole, the cover flip-flop.



Incidentally . . . the spring and hinge cover pin are two items to watch for rust. They're not rust collectors, who with the way people skip lots when cleaning the gun.

NOVEMBER

Your driver needs an MFD if his serial number is below 77893 and there's no "R" after the number. After your D&L apply MFD (1-800-333-3671) (80 Jul 85), the angle of the bullet ramp will be changed by about 5 degrees. This helps the kind of trouble you run into when a round hits the primer of another round that hasn't been fired and is still in the chamber as the one behind it tries to blow it.



The rear sight device makes your weapon so much of aluminum and it won't take much abuse. So don't try to adjust it without first loosening the retaining scale screw. And get in the habit of lowering the scale when you store your M&C around.



There's been a lot of talk about the way the magazine bracket guides (maybe you call 'em prongs) seem to break just about every time you store your beat. They don't really break this often, but they will bend or snap off on occasions — especially rough handling occasions.

A REAL NEED

If you run into a problem while assembling your M&C, ask questions. It's better to say now, "I don't know," than to try to explain a bad deal later by saying, "I didn't know."

When your weapon's not going to see any action for a spell — like when it's being stored in a vehicle or stored — dip down the tapered legs to keep the distance from slipping over on its side and loosening the guides.



You can also have the guides set down, making sure that enough of each — at least one eighth of an inch — is left to keep the magazine from moving back and forth.



MAGAZINE PINUPS!

They're fun, but 27s are messy when you're loading cartridges in the magazine of your KIMBALL rifle. It won't give you extra lighting power... even Moly-K'll put you out of the light—'cause that extra round will spread the lip and the spring won't load right.

When you're unloading, slip slipping the rounds out with another cartridge. You'll spread the lip this way, too.



When you're taking your magazine apart here's as far as you need to go:

1. Slide cartridge past in line to point the four pins down.
2. Slide out the first pin.
3. Wash the spring, back and forth gently as you try to unload.
4. Stop tapping when the follower touches the ribs and stop, and don't separate the spring from the follower.

Careful... you don't stretch or bend the spring and don't bend the ribs. Easy does it all the way.

For cleaning the disassembled mag—either shoot it in rifle butt cleaner and shake it good with ultrasonic!

OK—wash the inside with a brush soaked with cleaner.

OK—Use a rag soaked in butt cleaner.

Then dip it out good with a wash or rag for twin your shirt in a plastic.

After you clean the inside of the magazine, wipe the spring off and see that it's not bent or deformed. If it's OK, apply a very-very-very light coat of oil—using a rag dampened with FL Special.

This mag is covered with dry lubricant. It doesn't need any lubing except for the spring.



FLYING SHOTGUNS

It's always a right-side-up mission when the call comes through for a Huey UH-1H or a Chinook CH-47A rigged with drop guns (below) — cargo or supply transport — always critical.

That's why you MOJ #1100s, crew chiefs — and especially gunners — want to keep your XM600 machine guns ready for heavy action every mission.

Here're some of the key points to check out between flights. They're on top of your PMR and look the things that need fixing. Then return the 'coo you will to get 'em fixed . . . right now!

Always the only difference between down-2-guns are in their mounts and ammo straps. So, let's get the differences out of the way first and then go on to things they have in common.

ORIG MOUNT — Inspect: case mounting cracked or twisted base and beam; bushed or missing beam lockwash; cracked or twisted yoke; loose yoke mounting nut; missing spring pin; cracked mounting lock or ring that's lost its "spring"; dirty, rusty pivot steel ball bearings; loose retainer or wire that's not staked in 2 places; burst lock for the ammo box.



AMMO BOX & COVER BRACE — Check: or dirty that'd affect the flow of ammo; loose lock mounting.



AMMO BOX COVER ASSEMBLY BRACE

— Check: twisted or missing links and fillings; damaged; adapter bent or cracked.



AMMO CAN ATTACHMENT CABLE

— Pin: pin cracked or bent; spring weak or twisted; lines rarely dirty.



ORIG MOUNT — Check: or twisted mounting assembly; cracked or twisted plate; pivot balls with damaged surfaces; loose retainer that staked in 2 places; cracked or twisted bracket; bent steel retainer pin; broken or frayed cable; short steel assembly that's not 18 bound.



HERE, FIND THE PARTS THAT ARE THE SAME ON BOTH MACHINES (TRIGGER FOR THE MACHINE GUN, OF COURSE).



EJECTION CONTROL BAG — Carries bag full of rounds; clips hooking up frame cracked or bent; latch or latch spring and pins damaged; front and rear door-bolt don't line up right.



He might see the bag's ripped during firing or the spot rounds will come trouble . . . especially on the Chiswick. Here they're likely to get into the air heater — and everybody may have to walk back from the mission.

HARNESSEMBLY — Straps out or badly frayed; buckles heavy; rings and straps wear's hold.



THE DRAG MACHINE GUN



Ye side ground-eye fire still equipped with a quick grip trigger, a new rear sight and a quick-release mounting pin.

THE TWO RED HOT WORDS... THE HORNED DRAGON... AND THE WOLF... PLEASE!





Take a look at some of these parts and watch for these warning conditions:

BARREL WITH IMPACT ASSEMBLY — Bars and chamber dirty, greasy, softened, flash up present, front sight, barrel, gas cylinder stop or piston damaged (piston binding, flood tested, won't lock or release in a hurry).

Half of these parts are exactly the same as the ones on the ground weapons.

KEEP THE IMPACT IN SHAPE!
—YOU SHOULD ALWAYS CHECK FOR
CRACKS TO DISASSEMBLE AND FOR THE OIL!

TM 9-2000-210-10 (Sep 87) and DA 1 (2000) is your bible on cleaning and servicing. But if you find anything wrong that cleaning and lubing won't fix, send the whole unit to direct support for repair or replacement.



BARREL SHIRT — Cracks, twists, barrel ball, spring and retainer damaged, won't hold in the position you want.



BARREL LOCKING LEVER — Top loose, binding, won't force the barrel tight.



MOUNTING PIN & CABLE — Pin bent or won't slide in and out real easy, cable frayed (stretch it, cover up your hands), sleeve damaged.



NOSE — Dirty, greasy, loose, rips and loose fit.



GRIP & TRIGGER — When threads and flats on the trigger assembly, work, load or loaded springs, nut, link or spring bend, bustle or wear threads, check adjusting.



SCREWS & SAFETY HOUSING — Springs weak, broken or missing, cracked or bent activator or housing, bent, cracked or badly worn safety, bar and plunger.



HOW TO TUNE KINEMAT

Real Impressed

Before every flight give the war-link assembly the feel and eyeball test to make sure it's in good shape and works right. You could shoot out all kinds of firing troubles on the mission.

Here's what you do: Check the suspension and set the safety on F (FREE). Then pump the trigger slightly.

If it won't fire or there's no give at all, check the link trigger nut, some guys call it.

A link that's loose so that the activator can't reach the war will cause a no-fire. On the other hand, if the link's bent so that the activator is flush against the war, you'll get a quick trigger — a runaway gun.

Now, if the link's straight and true and you still have a firing problem, the link assembly needs adjusting to set the activator 1/16" back (that's about the width of a fat horse's hair) from the war.

Here's how you adjust it.



1. Attach one end of the link and spring assembly to the activator and screw the nut war link to the other end.



2. Hold the nut war link and against the spoke gyle assembly and screw out the nut war link assembly till you can line up the hole in the nut war link with the hole in the spoke gyle.



3. With the balls still lined up, turn the nut one full 1/2 turn clockwise to the right. This will provide that all-important 1/2 in. of clearance between the nut and the cone.



4. Place the job in the hole and secure it with a cotter pin.



5. OK, try it out. Drop the gun, put the safety on full and close down the forward movement of the working handle to keep the ball assembly from bumping up the cone as you lightly press the trigger. It should take only a 1/8 in. movement of the trigger to set light balls for the cone to release the ball.



6. Try this 10 times, then at four times to make sure you've got the right adjustment. Then lubricate the hole and nut and put the safety back on full.



OOZE AND BUBB

CLEANING AND LUBING — You can hardly go wrong if you abide by the poop in the hole chart on page 19 of your '85 TM. It tells you what parts need moose cleaning and-oil-oil immediately after firing.

Pay particular attention to that bit about not over-lubing the barrels of your gun. More and more, guys are finding that too much lube is a major cause of trouble.

LOADING — Do like the TM says on page 17, but make good positive you have the open side of the links facing down when you put the balls on the tray assembly.



PUBLICATIONS — Keep these handy and use 'em: TM 9-1809-202-15 (Aug 81) w/Change 1 and 2 (SMLE in 26); TM 9-1809-204-17 (14 Sep 82) w/Change 1 (SMLE); and TM 9-1809-202-09C (11 Aug 81).

*Watch out for the
big OMS dangers.*

(UN) POPULAR

Here's a list of the trouble spots that've been griping you with the MCFORMS good machine gun selection—and what you can do about 'em. Most times human weakness is a big part of the fix.

*You can
do it!*

FORGETFUL OK, doc, remind yourself to pull the check breaker bar fully upward or dismounting any major assembly while troubleshooting your system with the power on.

Otherwise, you'll cause peak volt-ages and risk the follow-up personal injury protection and elevation vari-able contained in the system or later exposures to the voltage regulator in the control panel.



CARELESS?

Make sure the gun latches are really locked when you mount (MCM) or fire (MFR) Part 76 of your 12 YR for the way. And double check before every reload that they're well locked right.

Guns could get hurt bad—and equipment, too—if a gun works out of its cradle during flight.

And, while you're working on 'em, see that the parts are all OK... like the latch (PART 1001-074-0717), the cradle assembly (PART 1001-074-0718) and the machine gun pin (PART 1001-081-0200). If any of them are badly worn or disassembled, get support to replace 'em—in for the next reload.



HEXES

WARRIOR,
WARRIOR, IS
THOSE HEX BUSHES
WORK ON HUMAN?

KNOW-IT-ALL? Please, look. If you don't know how to make those adjusting the suspension travel's variable resistant in the correct point to get rid of clattering or vibration in your gear, keep your coast-parking hands off.

It takes know-how and a real light touch with the jockey's suspension to make the adjustment called for in your life at your 41 TM. These coils are unbreakable and if they get damaged your vehicle could be grounded till a replacement comes through repair.



A WIFE LADY?

With a lot of time and trouble if you'd give the carriage drive member good look before swelling it back to support. If it's the old-type drive with 2 screws on each side plate, you can adjust it yourself. Page 6447 of TM 9-1009-205-11 (Oct 68) w/changes for the prep.

Of course, if it doesn't have those all-terrain screws, support'll have to talk you.



ALICE
HEXES





AIRCRAFT OIL SAMPLING



The role of the auto already mentioned is becoming more and more a valuable one, with the publication of TD 21-6690-000-01 (9 Jun 66) backed up by AN 7961314 Doc-66-00 specimens oil analysis.

Like a child, you can now take specimens when your bird is engaged in the oil sampling program. Cause, this sampling is based on the fact that metal wear and kicks off microscopic particles that can't be seen, this increases the danger or trapped by filters and chip detectors.

Since the maximum amount of normal wear for each metal component in a system is known, this "threshold limit" of metal contamination can be detected by a laboratory spectrograph or spectrophotometer.

No, any high amount of iron, silver, chromium, aluminum, copper, tin, and magnesium will alert you to the fact that an engine, transmission or gear box is about to hold up.

SAMPLE THEM ...

The best time to take a routine sample is at each 25-hr. interval. You should take the sample within 15 minutes of engine shutdown so you get a true sample of the circulating oil. These regular samples will make it possible for the lab to set up a wear pattern for each component on your list so that future samples can be read accurately.

Also, you should take special samples when—

— **any suspected internal damage** if you see metal in the oil or on the dipstick.



— **a mechanical shock** (high following resistance) due to any oil-filled component.



— **engine overhaul** after the test stand run.



— **oil analysis**.



— **before disposal** (recycle).



... **IN FRONT OF ALL THESE PROBLEMS!**

You'll get a report from the lab only when there is high wear on a routine sample or when you send in a special sample. The lab may even ask you for a special sample, taken after the next 4 hours or so of engine operation, to confirm their findings.

SAM SAMPLE, PLEASE!



An any make will tell you, how a specimen is taken is mighty important. The lab you'll get you a reading on all that has dirt and sludge in it.

So, when you require sampling equipment that's regular channels — there won't be a sampling kit — be sure you keep all the containers closed. Here's all the sampling gear you need:

<p>1. Substrate sampling tube</p> <p>Size Price</p> <p>12" x 1/2" 50 \$750.00-850.00</p> <p>12" x 3/4" 50 \$750.00-850.00</p> <p>12" x 1" 50 \$750.00-850.00</p>	<p>2. Sampling bottle</p> <p>Part #10-001-001</p>	<p>3. Mail Bag</p> <p>Part #10-001-001</p>
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SHOES SAMPLE LIKE SO ...

Your sample bottle's opened, that's the tube or device directly from the sample bottle, for the TB for the sampling. Inside and the right side tube comes. Here's the scientific approach — using the tube in an old tank like such.

SHOES LIKE YOU CAN GET IT



Take the old tank cap off, open the sample bottle and take off the protective cap on each end of the sampling tube. Cut the ends of the substrate tubes. Be sure you don't drop the tube in the ground or get it dirty in the engine ... you want a clean sample.



Put the tube into the tank but be sure you don't touch the sides or bottom of the container, or you'll get a dirty sample and maybe some sludge in the tube again.



Put a finger over the tube and lift out your sample, or water with a little mouth water and hold the sample in the tube with your finger. Fill the bottle until it's within 1/2 inch of the top. Put the cap on with a little muscle or the bottle won't leak.

Throw away the sampling tube because a contaminated tube can't be used again.

FLY DRAIN SAMPLE THE WAY



When you can only get your sample by draining, such as a transmission, chances are there will be some sludge and maybe even water in the drain hole so be sure to take along a spare container to get rid of it.

Open the drain plug and drain enough oil into the spare container to clean the opening and drain lines of sludge. Then drain your sample directly into the sample bottle so within 1/2 inch of the top ... no sampling tube needed.

Cap the bottle tight ... and you've got your sample.

SAMPLE NEW BOXES, INCREASED OUTPUT, NEW OIL

TO SAMPLE 40-PSI OIL AND TO CHANGE SPAC BECKERS, TAKE OUT THE MAGNETIC DRAIN PLUG.



THANKS!

Now, insert one end of an opened 3/4-in. tube into the sample bottle. Displace the check valve with the other end of the tube, drain your sample from the bottle to within 1/4 inch of the top and cap your sample.

On hydraulic systems use the tube to sample the reservoir, provided it's part of the circulating system, or drain your sample from the filter housing or from a line that diverts the hydraulic fluid.

When a new oil batch comes into your area the lab also sends an oil-used sample so that out of metallic compounds are in the oil additive. These compounds allow the readings on your future samples to be sure you identify the oil batch by number, manufacturer, date and military spec. You can get this info from the tin, or your FOM section.



NOTICE UP TO NOW, "NEW OIL" BASIS, "NEW OIL" BASIS, "NEW OIL" BASIS.

JUST GETTING A NEW OIL BATCH SAMPLE.

NEW OIL

All your hydraulic sampling will go down the drain unless the samples are identified. So, it's mighty important that you fill out completely the sample label sheet that is supplied by the oil analysis lab where you send the sample.

On a special sample for use you add any important data, such as—name, address and phone number of person the lab should contact, or the location of the item. You'll find complete sampling instructions right on the back of the label sheet.



PUT THE NUMBER ON LABEL AFTER SAMPLING...
CHECK
OK-975

Wrap the pump chest around the oil sample bottle with a rubber band. Then put the sample in the mailing bag and seal it, presto, no-leak job. Freeze engine immediately. Place in the sample stand around for a few hours or days. Every minute counts. **MAIL IT THE SAME DAY YOU TAKE THE SAMPLE** — small order a Del. Label 88.



If you're mailing a special sample, band the mailing bag with any high visibility tape, preferably 3M's, PSM 7535-753-6726. Also airmail.

As for record-keeping, you should make an entry on the log book DA Form 2000-13 that an oil sample was taken as part of the Inspections and Periodic Inspection.



Your data, the oil test results, along with other pump gained from cylinder compression tests and boroscope inspections, should go a long way toward pinpointing a maintenance problem as you run down the list. It should be a big help for you and your support when deciding to pull an engine, based on AR 700-20 11b Para 611.

RUBBER STRIKE-THRU OK

NO SPENT BOLDS,
NONE GETS ON RUBBER
CLAMP THROUGH THE
SIDE OF YOUR HEAD
NEVERMORE! PLEASE NEVER
DO NO HARM AT ALL!!

OH
THANK
GODDAMN!
I WAS SO
WORRIED!

This wire stress is applied with tension which forces some of the rubber bonding up thru the wire strands. You may feel more rubber showing as the wire cuts thru your head. This indication gives you a better correct head seal and acts as a built-in separator for the wire bond.

EYE FORK — HOT PIN

YOUR
ATTENTION
PLEASE!

When you Raven 100-211 type out a dye penetrant check on the main wire hole every second period, as called for in sequence 3.15 of TM-15-1126-264-26 PMP (11 Dec 61), keep this in mind: When you take the combination pin from the unboard T-T bar, you check the milled area in and around the lock pin holes — not the pin.



SEND 'EM IN (OFFICIAL MAINTENANCE POINT), IT HAPPENED AGAIN...

SEND 'EM IN AGAIN...AND AGAIN

You say you sent an EIR (Data Form 2007) on to the NMP on that problem you have on your equipment?

Yes and clearly?

And now you have more of the same problem. What do you do? You don't call on your dealer just because you sent in that one EIR.

Send in a new one.

And if it happens again, send in another one. And more ... as long as the problem keeps repeating. Anytime an equipment failure shows up, tell the design gals with an EIR.

Of course, you keep a sharp lookout for solutions to your problems in the EIR Digest on your equipment.

PUBS

A special list of 1992 publications is featured in "Manufacturing Update" section. There is an updated list of new books, articles, reports, etc. published during 1992. The list is available on the EIR Digest and is a free download from the EIR Digest website.

Technical updates

NEW BOOKS: "Manufacturing Update" section of the EIR Digest, 1992, is available on the EIR Digest website. The list is available on the EIR Digest and is a free download from the EIR Digest website.

NEW ARTICLES: "Manufacturing Update" section of the EIR Digest, 1992, is available on the EIR Digest website. The list is available on the EIR Digest and is a free download from the EIR Digest website.

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NEW ARTICLES: "Manufacturing Update" section of the EIR Digest, 1992, is available on the EIR Digest website. The list is available on the EIR Digest and is a free download from the EIR Digest website.

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JOE'S
DOPE

**DON'T
BE A
GASS**

Oh, I'm writing
The Tale of
HERBIE GASS.
The boy was
right... he was
A GASS!
♪ ♪ ♪

OH, LIKE HE WAS A GASSER,
OL' HERBIE GASS... EVERY
ONE IN THE COUNTRY LIKED
TO HAVE HIM AROUND!

HEY, HEY,
YEAH,
DADDY-O'S BOY!

WELL,
THAT
WAS
HERBIE!

OH,
GASSER!



WHEN THE BOYS WERE TOLD
WHEN THE BOYS WERE TOLD,
IT WAS GASS THAT CHANGED
THE NEW BOYT TROLL.
HE WAS THE THING THAT
TOLD 'EM THE MOST. ♪ ♪





THE GRENADO
FELL STRAIGHT
DOWN... JUMP-BODY
BROKE THE GRENADO
IN TWO PARTS!
IT BUCKED.

THE GRENADO
BROKE THE
GRENADO!
YOU'LL
BE SHOCKED!



WHEN THE GRENADO
WAS BUCKED UP
AN EXPLOSION HAPPENED!
... BUCKED STRAIGHT!



WOW! BUCKED!
BUCKED!
BUCKED UP
BUCKED!



WOW... BUCKED WITH
THE GRENADO STUFF
IS LITTLE EXPLOSION
STUFF... BUCKED
BUCKED IT!

WHAT I
JUST FINE
BUCKED!



THE GRENADO STUFF IS BUCKED
BUCKED! BUCKED BUCKED!

BUCKED
BUCKED BUCKED
BUCKED BUCKED
I DON'T BUCKED
IT!



WOW! YOU REALLY
BUCKED THE GRENADO
BUCKED THE GRENADO
OF THE GRENADO.

WOW! YOU
BUCKED
BUCKED AT THE



BUCKED UP!
BUCKED BUCKED
BUCKED!

Joe's Dope Shoot

DO YOU HAVE A BLAKE ON YOUR FOOT
NEED AWARD TRYING
TO BORROW OR SELL
OR HARBORING
AN ALREADY
WORKING ITEM?

... LIKE ADDING EXTRA
SUPPORTS... OR MAKING
YOUR EQUIPMENT WEIGHT
CONTROLLED?



UNNECESSARY PAINTING, POLISHING, OR ADDING TO
YOUR COST OF PREVIOUS MAINTENANCE TIME AND CAN
CAUSE EQUIPMENT TO FAIL WHEN YOU NEED IT MOST!



HELP
STAMP
OUT
UAM

IF YOU
DO... STRAIGHTEN
THE DUTY OR WE
MAY KILL YOU NEW
BROTHERS!

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

IF YOU WANT TO DISPLAY THIS COMPLAINT ON YOUR BULLETIN BOARD, OPEN STAPLER, LIFT IT OUT AND PIN IT UP.

© 1994 U.S. Army Corps of Engineers



Man! They like that!
 It's not in that tall tall
 grass,
 All these rats and
 all' laughter' damn...
 He was a BARRER,
 the day! OF
 REPPED JAMES
 BARRER YOU-
 PEE-GRAY
 I J J I



THINK IT IS...
 YOU'VE BEEN HIT, BARRER
 IN THE MIDDLE OF THE
 NET OUT THE ROAD...



FLASH OF LIGHT
 HE'VE AN OTHER BARRER
 THAT IT'S NOT UP AND
 NOT... NO BARRER, NO
 BARRER, NO BARRER...

BARRER?



BARRER! THE UP
 IS BARRER YOU
 BARRER BARRER!

BARRER!
 IS BARRER
 YOU DID
 IT BARRER!



CARRER! THAT IS
 CARRER... THAT CARRER
 IS IT BARRER? I
 DON'T BARRER...



Suddenly they're moving away,
 the ground flares with smoke,
 AND FIRE

THEY
 FINISHED

REARRANGED
 THE NETS

AND
 NO BARRER!



HIT IT? BARRER
 BARRER!

FOR
 FOR
 FOR

GET THE
 BARRER
 THE NETS
 BARRER!





EXTEND LIFE SINCE 1971



TROPICAL ELECTROLYTE

Like its hot cousin it's tough on heat and storage batteries. But you can make your battery's life happier and longer by operating it on weaker electrolyte than it needs in cooler places.

THE 7-6749-200-15 (that's 15, just 15), just 15%, cuts the specific gravity reading (SGR) of electrolyte for tropical operation from 1.280 and 1.275.

Coming from a cool climate, your batteries may now be carrying 1.280 SGR electrolyte. And the electrolyte you get for recharging now, dry-charged batteries is 1.280 SGR.

So what's the formula for diluting 1.280 electrolyte to 1.260-1.275 electrolyte? And what's the best way of doing it?



TABLE 11



REMEMBER — ALWAYS POUR ELECTROLYTE INTO WATER AND NEVER WATER INTO ELECTROLYTE.



The mixing pan is often constructed made of glass, heavy plastic or hard rubber. A handy mixing tub can be made from a discarded EFM battery — take the top off, remove the caps and knock out the partitions.

NOTE...
THEY WON'T
BE USEFUL
IF YOU
DON'T USE
THEM!



BE CAREFUL!
KEEP FROM SPRINKLING THE
ACID ELECTROLYTE IN YOUR
EYES OR ON YOUR SKIN AND
CLOTHES. IF IT DOES GET ON
YOU WASH IT OFF FAST
WITH PLENTY OF WATER.



IF IT GETS IN YOUR EYES WASH THE AREA
FIRST WITH WATER AND THEN USE PEARLS!

ACTIVATING NEW BATTERIES

Another method of mixing, when you're activating new, dry-charged EFM batteries, is:

1. Pour 1/2 pint (8 fluid ounces) of water into each cell.



2. Fill all cells to the proper level with 1.280 electrolyte.



3. Let the battery stand for 20 minutes and refill every electrolyte if it receded to come up to the proper level.



4. Store the battery in a sealed charge holder getting it into service, as explained in the 1-800-633-7689 or 1-800-255-255-11.



The new, dry-charged EFM batteries you use are the same matched groups you get only 145 fluid ounces (4.24 liters) under 14 pounds of water from each cell before adding 1.280 electrolyte.

A standard 13.6-oz. soft-drink can, makes a good container for water — but water only, not electrolyte. Mark off a clean can into thirds — 1/3 of a can for 8 ounces and a little under 1/3 of a can for 1 1/4 ounces. (With an inside can length of 4 1/4 inches, 1 inch equals 8 ounces and 1-8/16 inches equals 1 1/4 ounces.) A light tap with a nail on these marks will make slight dents that can be seen on the inside of the can for accurate measurement.



BATTERY IN SERVICE

Electrolyte already in a battery can be changed from 1.280 SGPH to 1.285-1.305 SGPH by replacing some of the electrolyte with water (8 ounces for 6GN and 5 1/2 ounces for 2BPC). This should be done only with a battery that's in excellent condition and fully charged.



1. Pour the right amount of water into each cell — (lightweight in the photo) will be as good as an too long.



2. Add just enough of the electrolyte to come up to the proper level.



3. Charge the battery with 1 specific gravity reading, taken at 30-minute intervals, show that the battery's fully charged.



Place a 1-in. white paper over the positive terminal on the top of a battery that's carrying 1.300-1.325 SGPH electrolyte for service in the tropics. Besides identifying the battery, this will be a reminder that Future specific gravity checks will be a temperature-corrected reading of 1.300-1.325 as these fall change.



TM 9-6140-300-15 WITH it is the bible on lead-acid storage batteries and has plenty of info on handling and care of batteries.

DO
NEED
A
WHEEL
OF
FOUR...

M543 WRECKER

"A TOOL
FOR EVERY JOB
... A PLACE FOR
EVERY TOOL ... EVERY
TOOL IN ITS PLACE ...
IS WHAT MY OLD
UNCLE JIMMIE USED
TO SAY!"

This minitractor runs, especially when you've got an M140 for M140L2. It's a wonder with more'n 100 pieces of equipment, mostly tools, to keep track of.

You've got to handle just about any emergency job ... if you know what you're get and where it is. So, to make sure, here's all the stuff you should have stored ... remember, this, that some items may not look exactly like what's in the picture because of color! From different manufacturers.

ON RIGHT FRONT BUMPER

1 — 1/2" x 1/2" x 1/2" pin wrench, for pin work



FOR 100-100-100

ON FRONT WHEEL DRIVE

1 — DRILL BIT, 1/2" x 1/2" x 1/2"



FOR 100-100-100

1 — 1/2" x 1/2" x 1/2" pin wrench, for pin work



FOR 100-100-100

1 — 1/2" x 1/2" x 1/2" pin wrench, for pin work

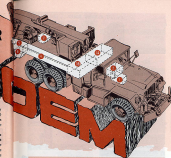


FOR 100-100-100

1 — 1/2" x 1/2" x 1/2" pin wrench, for pin work



FOR 100-100-100



ON GIFT RUNNING BOARD

1 — OIL gasket, 1/2" x 1 1/2" x 1/4"



FOR TOBACCO BOX

1 — BRASS, var., 1/4" x 1/2" x 1/16"



FOR COFFIN

ON STORAGE COMPARTMENT DOORS



1 — BRASS SCREW, 1/4" x 1/2" x 1/16", and chain, composed of 2 padlocks and 7 links, 2 links used to fasten to door of compartment 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

FOR LOCKING UP

KEEP A LITTLE SKEWERS ON FREEMAN LOCKER



COMPARTMENT



1 — BRASS, var., when steel not available, 1/4" x 1/2" x 1/16" long



FOR LOCKING UP

1 — BRASS, when steel not available, 1/4" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long



FOR LOCKING UP

1 — BRASS, when steel not available, 1/4" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long



FOR LOCKING UP

1 — BRASS, when steel not available, 1/4" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long



FOR LOCKING UP

1 — BRASS, when steel not available, 1/4" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long



FOR LOCKING UP

1 — BRASS, when steel not available, 1/4" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long, 1/2" x 1/2" x 1/16" long



FOR LOCKING UP

KEEP A TANK FULL OF OIL ON REAR LOCKER THAT ARE LEFT TO USE ANYTIME



COMPARTMENT 2



1 — **SAW**, electric hand, 10-in. x 1 1/2-in. long



FOR 1100-01-001

1 — **SAW**, dry, 6 1/2-in. x 1 1/2-in. long



FOR 1100-01-002

1 — **SAW**, light, in section, 15 1/2-in. long



FOR 1100-01-003

1 — **SAW**, hand, wood, hand saw, 20 1/2-in. long (light)



FOR 1100-01-004

1 — **SAW**, electric light, in high-voltage plug and socket, 15 1/2-in. long



FOR 1100-01-005

1 — **SAW**, electric, metal, electric, 17 1/2-in. x 1 1/2-in. long, w. handle (hand)



FOR 1100-01-006

1 — **SAW**, hand, wood, 10-in. long, w. handle, w. container, 15 1/2-in. long



FOR 1100-01-007

1 — **SAW**, electric hand, 10-in. x 1 1/2-in. long



FOR 1100-01-008

1 — **SAW**, electric hand, 12 1/2-in. long



FOR 1100-01-009

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-010

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-011

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-012

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle, w. 1 1/2-in. handle



FOR 1100-01-013

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-014

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-015

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-016

1 — **SAW**, electric hand, 10-in. long, w. 1 1/2-in. handle



FOR 1100-01-017

Continued **COMPARTMENT 2** in this kit

1 — 1/4" DRILL BIT
for 1/4" hole



FOR HOLES ONLY

1 — 1/4" PH. steel flat
head screw for hole
5/8" dia. 1 1/2" long



FOR SCREWING ONLY

1 — PH. screw (flat
head) for hole 1/4"



FOR HOLES ONLY

1 — PH. 1/4" dia. steel
screw, 1 1/2" long



FOR HOLES ONLY

1 — 1/4" PH. 1/4" dia.
steel screw, 1 1/2" long



FOR HOLES ONLY

1 — 1/4" PH. 1/4" dia.
steel screw, 1 1/2" long



FOR HOLES ONLY

1 — SCREWDRIVER
for 1/4" screws, shaft
1/4" dia. 10" to 12" long



FOR SCREWING

1 — SCREWDRIVER
for 1/4" to 1/2" screws, shaft
1/4" dia. 10" to 12" long



FOR SCREWING

1 — PH. 1/4" dia.
steel screwdriver, 10" long,
shaft dia. 1/4" to 1/2" long



FOR HOLES ONLY

1 — PH. 1/4" dia.
steel screw, 1 1/2" long



FOR HOLES ONLY



**WIND
CAP**



FOR HOLES
1 — 1/4" DRILL BIT
for 1/4" hole, 1 1/2" long



FOR HOLES ONLY

FOR HOLES
1 — 1/4" PH. 1/4" dia.
steel screw, 1 1/2" long



FOR HOLES ONLY

SMART WHEEL ROLL



1 — 1/4" DRILL BIT, 1 1/2" long,
for 1/4" hole

1 — 1/4" PH. 1/4" dia. steel
screw, 1 1/2" long

FOR HOLES ONLY

1 — PH. 1/4" dia. steel
screw, 1 1/2" long



FOR HOLES ONLY

1 — 1/4" DRILL BIT, 1 1/2" long



FOR HOLES ONLY

1 — 1/4" DRILL BIT, 1 1/2" long



FOR HOLES ONLY

1 — 1/4" PH. 1/4" dia. steel
screw, 1 1/2" long



FOR HOLES ONLY



1 — 1/4" DRILL BIT, 1 1/2" long



FOR HOLES ONLY

DEPARTMENT 2A



1 — 1000, inside the
the top, 40 4/8 in
above, 1 1/2 in top, 1/2
inch side hole, 1/2 inch
in



FIG 1000-01-001

1 — 1000, inside the
the top, 40 4/8 in
above, 1 1/2 in top, 1/2
inch side hole



FIG 1000-01-002

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-003

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-004

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-005

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-006

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-007

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-008

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-009

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-010

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-011

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-012

1 — 1000, inside the
the top, 50 feet long



FIG 1000-01-013

YES, I
KNOW IT'S
HARD TO
BREAK
THE HURT,
BUT YOU
SHOULD
USE A
TOOL
PROPERLY
OH...



YES, I
KNOW IT'S
HARD TO
BREAK
THE HURT,
BUT YOU
SHOULD
USE A
TOOL
PROPERLY
OH...

CRANE CAP



Use your 20 brackets
2—BRACKET, 10
feet, 47 1/2 lbs. (each)
250-8-000

FOR 475-00-000



RIGHT BELL

1—BELL, 1000, 1000
feet, 100, 100 lbs.

FOR 800-01-000



1—BELL, 1000, 1000

FOR 100-00-000

CRANE POSM



IN BRACKET

BRACKET, 10000
feet



FOR 100-00-000

1—BRACKET, 10000,
1000 lbs. (each)



FOR 100-00-000

1—BRACKET, 10000,
1000 lbs. (each)



FOR 100-00-000

1—BRACKET, 10000,
1000 lbs. (each)

FOR 100-00-000



1—BRACKET, 10000,
1000 lbs. (each)



FOR 100-00-000

LEFT JACK



IN BRACKET

1—JACK, 10000,
1000 lbs.



FOR 100-00-000

FOR
2—BRACKET
10000,
1000 lbs.
IN BRACKET



1—JACK, 10000,
1000 lbs.

FOR 100-00-000

1—JACK, 10000,
1000 lbs.



FOR 100-00-000



1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN



1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

1 — PIN, 1/2" dia, 1/2" long pin

FOR PINNING PIN

ON REAR WINDY DOOR



REAR DOOR

2 — **WAL**, from lock, 2 rear side of wheel



FOR DISASSEMBLY

1 — **CABLE LOCK**, attach a threaded chain (parting off)

1 — **CHAIN**, attach to the lock, to fasten to lock

FOR DISASSEMBLY



1 — **CHAIN**, with cap, to hold

FOR DISASSEMBLY



1 — **CHAIN**, with cap to the 2nd hole, top, from under

FOR DISASSEMBLY



**KEEP
WHEEL
LOCKED
UNTIL
YOU
ARE
READY
TO
DRIVE
THE
CAR
AWAY!**



COMPARTMENT 5



1 — **HOOK**, using wire cap, hold in place, before starting, to be the top, 2nd cap

FOR DISASSEMBLY



2 — **HOOK**, using wire cap, up (down), when up and steady, to be the top, 2nd cap

FOR DISASSEMBLY



**DON'T TRIM
YOUR
HAIR
UNTIL
YOU'RE
READY
TO
DRIVE
THE
CAR
AWAY!**



COMPARTMENT 6

- 1 — BR, leveling nut
type 284000 in Cars 2
- FOR 284000 CAR**
- 1 — BR, pressure
for the right side of the
floor — Main advanced
— Applied in Cars 2
- FOR 284000-001**

COMPARTMENT 9**COMPARTMENT 28**

- 1 — BR, leveling
nut type 284000, in
Cars 285, 28 to 27
- FOR 284000-001**

- 1 — BR, leveling nut
type 284000
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, right side
- FOR 284000-001**

- 2 — DR, bolt type
with nut
- FOR 284000-001**

- 2 — DR, pin
type 28 to 28 inches
long
- FOR 284000-001**

- 1 — BR, leveling
nut type 284000, in
Cars 285, 28 to 27
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — DR, bolt type
with nut
- FOR 284000-001**

- 1 — DR, pin type
with nut 28 inch long
with nut
- FOR 284000-001**

- 1 — DR, pin type
with nut 28 inch long
with nut
- FOR 284000-001**

- 1 — DR, pin type
with nut 28 inch long
with nut
- FOR 284000-001**



THE AIRWAYS
OFFICE FOR THE
WATER CAN BE
ON TOP OF THE
OFFICEWORK FILTER



- 1 — BR, leveling
nut type 284000, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**



- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

- 1 — BR, low water
valve in 1 type, in
Cars 285
- FOR 284000-001**

Garment: COMPLETMENT 3P
in this kit.

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **BOX**, FINE FIB,
Molokan, 4 inches
4 per lot

FOR THE EYE

1 — **GLOVE**, work,
leather, 10 inch long
10

FOR THE EYE



**THERE IS NO
F&N FOR EYES!
ALWAYS WEAR
PROTECTIVE
EYEWEAR
WHEN WELDING.**

1 — **SHIELD**, work,
4 1/2 x 6 inch, 10 inch
10

FOR THE EYE

1 — **SHIELD**, work,
4 1/2 x 6 inch, 10 inch
10

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE



1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **FLD**, hand tool
type, 12 inches long head
16 inch

FOR THE EYE

1 — **SHIELD**, work,
4 1/2 x 6 inch, 10 inch
10

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE

1 — **SHIELD**, hand
Molokan, 4 inches long
16 inch

FOR THE EYE



YOU
MAY KNOW...

YOUR MECHANIC'S TOOLS

Automotive or General, the tools in your mechanic's tool kit have to be in good shape and all the tools that if you're to do a good job. In case you don't have Red Car CRYSTAL (Just fill in the—
MOTORIST MERCHANT TOOL KIT
TEL (800)734-3341

WEIGHTY
HERE COMES THE
MOTORIST-PROOFED NEW
RED CAR CRYSTAL

OK, BUT
WHAT ABOUT
ALL THE
ONE'S?

Here's a list you can use to check to make sure you have all your tools. This is the latest dig-up on RENT's and manufacturers. Call 800-4-3188-415 has been included by DA Car 110-27 (10 Aug 85).

Remember, if the tool you have doesn't look exactly like the one listed here, it's due to different manufacturers making the tools. One should do the job as well as the other.

You get only one tool unless noted.

WRENCH, OPEN END, 1/2 in.

FOR 92-94-98

WRENCH, COMBINATION,
7-1/2 in. 7/16 in.

FOR 92-94-98

WRENCH, COMBINATION,
7-1/2 in. 7/16 in.

FOR 92-94-98

WRENCH, END, 1/2 in.

FOR 92-94-98

WRENCH, END, 1/2 in. 7/16 in.

FOR 92-94-98

WRENCH, END, 1/2 in. 7/16 in.

FOR 92-94-98

WRENCH, END, American pattern, 1/2 in. 7/16 in.

FOR 92-94-98

WRENCH, END, American pattern, 1/2 in. 7/16 in.

FOR 92-94-98

FILE, HAND. Coarse pattern 2 1/2"



FOR 100-0000-01 Assembly 1-100-000-000

GAZE, GUP. NETTING. 8 wire. 1/8 inch



FOR 100-000-000

GAZE, WOODEN. 24 blades



KEEP THE
STRAIGHT!

FOR 100-000-000

HAMMER, HAND. GUP. 2 1/2"



FOR 100-000-000

HAMMER, HAND. COARSE. 2 1/2"



FOR 100-000-000

HANDLE, REC. WOOD. 1 1/4"



FOR 100-000-000

HANDLE, FILE. WOOD. 1 1/4" x 1/2"



FOR 100-000-000

KNIFE, PAPER. TRADITIONAL. 2 1/2" x 1 1/2"



FOR 100-000-000

KNIFE, PAPER. TRADITIONAL. 2 1/2" x 1 1/2"



FOR 100-000-000

PLIERS, NEED. COARSE. 2 1/2"



FOR 100-000-000

PLIERS, TACKING. COARSE. 2 1/2"



FOR 100-000-000

Pliers, GUP. COARSE. 2 1/2"



FOR 100-000-000

Pliers, GUP. COARSE. 2 1/2"



FOR 100-000-000



BRUSH, CLEAN, 5/16 in. 1/4 in. point

FOR BRUSHING FIBER

BRUSH, CLEANING, 1/4 in. point

FOR BRUSHING WOOL

BRUSH, CLEAN, FIBER, 2 1/2 in. 1/4 in. point

FOR BRUSHING WOOL

BRUSH, CLEAN, FIBER, 1/4 in. 1/4 in. point

FOR BRUSHING WOOL

BRUSH, CLEAN, FIBER, 1/4 in. 1/4 in. point

FOR BRUSHING WOOL

BRUSH, CLEAN, FIBER, tapered tip, 1/4 in. point

FOR BRUSHING WOOL

BRUSH, SPIN, MOUNTAIN'S 1/4 in.

FOR SPINNING WOOL

"YOU'VE USED SCREWDRIVERS AND YOU HAVE TOOLS!"



SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER (Replacement for TORQUE 2000)

SCREWDRIVER, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER

SCISSOR, WITH CUTTING HEAD, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR CUTTING FIBER

SCISSOR, 2000 TORQUE, 1/4 in. 1/4 in. point

FOR SCREWING FIBER (Replacement for TORQUE 2000)



WRENCH, OPEN END, ADJUSTABLE 17-18



FOR 100-200-000

WRENCH, OPEN END, 100% 15 degree angle of head, 10 and 1/4 inch openings



FOR 100-200-000

WRENCH, OPEN END, 100% 15 degree angle of head, 8 and 1/4 inch openings



FOR 100-200-000

WRENCH, OPEN END, 100% 15 degree angle of head, 7/8 and 1/2 inch openings



FOR 100-200-000

WRENCH SPANNER, adjustable hook type, 5/16 inch hook opening



FOR 100-200-000

WRENCH SET, COMPARISON SET AND OPEN END

FOR 100-200-000 Replaces FOR 100-200-000

CONTAINS 10 WRENCHES



Wrench Openings, In.	Set Wrench Opening Range	Head L. x W. In.	FOR
1/2	1/2 to 1 1/2 Pairs	1-1/2	100-200-000
3/4	1/2 to 1 1/2 Pairs	1-3/4	100-200-000
1	1/2 to 1 1/2 Pairs	1	100-200-000
1 1/4	1/2 Pairs	1-1/4	100-200-000
1 1/2	1/2 Pairs	1-1/2	100-200-000
1 3/4	1/2 Pairs	1-3/4	100-200-000

Wrench Openings, In.	Set Wrench Opening Range	Head L. x W. In.	FOR
1/2	1/2 Pairs	1	100-200-000
3/4	1/2 Pairs	1	100-200-000
1	1/2 Pairs	1-1/4	100-200-000
1 1/4	1/2 Pairs	1-1/4	100-200-000
1 1/2	1/2 Pairs	1-1/2	100-200-000
1 3/4	1/2 Pairs	1-3/4	100-200-000
1 3/4	1/2 Pairs	1-3/4	100-200-000

WRENCH SET, 200PCS, square drive, 7/8 inch size, 12 point sockets, 6/16mm

FOR 100-200-000 Replaces FOR 100-200-000

CONTAINS 10

Size, In.	FOR	Size, In.	FOR
1/2	100-200-000	1/2	100-200-000
3/4	100-200-000	3/4	100-200-000
1	100-200-000	1	100-200-000
1 1/4	100-200-000	1 1/4	100-200-000
1 1/2	100-200-000	1 1/2	100-200-000
1 3/4	100-200-000	1 3/4	100-200-000
1 3/4	100-200-000	1 3/4	100-200-000



WRENCH AND/OR ATTACHMENT SETS

Item Name	Size, In.	FOR
Extension, Socket Wrench	1	100-200-000
Extension, Socket Wrench	1	100-200-000
Extension, Socket Wrench	1 1/2	100-200-000
Handle, Socket Wrench	1	100-200-000
Handle, Socket Wrench	1	100-200-000
Handle, Socket Wrench	1 1/2	100-200-000
Handle, Socket Wrench	1 1/2	100-200-000



COMMUNICATIONS

KEEP YOUR COOL, CAZ!

Earlier Equipment can lose its cool quicker 'n a hot wind' n dog, especially when the weather is super-heat . . . like in Charlie country.

But, one good way to keep over-heated earlier equipment operating is to pull out the component drawers part way. Let 'em breathe around them, and operate away!

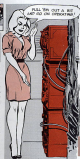
However, one component, the TH-17 TD telegraph terminal, needs special attention. Hot climates, enclosed space and its own generated heat puts this little jolt out of operation when other components are still chugging away.

Point a fan at it if you can, and make sure the air hits the unit. That's about the handiest way to stay in business longer.

If you don't have a fan, you might try a rilly. Like, shut down for a minute, remove the hot TH-17 and replace it with a cool one.

The whack know about the TH-17 overheating problem, so they're working on modified circuitry to help out. Also, an RPO is being worked up which will provide forced air cooling.

Like, don't lose your cool, pal. The human's cooling.



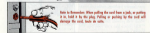
COVER SB-B6½ WITH TLC (TENDER LOVING CARE)

A cup of coffee, tea or a favorite beverage in your hand — that's your problem . . . but, keep 'em off your SB-B6½ manual typewriter as in hand.

Spilled drinks and wiggly fingers can damage the flow of fancy talk and put you on the spot with your equipment.

So, instead of using the SB for a grade bar or stool, treat it right, and the keyboard will talk to you the way it's supposed to.

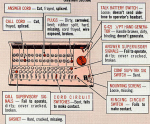
Here're a few keyboard clues to tell you trouble's close, big, with the more serious points in bold type:



TRIPLE INTERMEDIATE SIGNAL ASSEMBLY
(Field test section)



INTERNAL COMPONENTS SECTION
(Standard Section)



OUTER COVER ASSEMBLY



PROBLEMS POWER SUPPLY

FRONT COVER — Bent, poked, hard, stuck, hinge broken.

CHARGING SUPPLY FUSE — CANNOT WORK.

100-120 V BATTERY SWITCH — Doesn't work.

CHARGING SUPPLY FUSE — Missing, blown, broken.

BATTERY CHECK SWITCH — Doesn't operate.

100V BATTERY SUPPLY FUSE — Missing, blown, broken.

CARRYING HANDLES — Missing, bent, broken.

TRUNK-TYPE LATCHES — Bent, broken, missing.

VOLTMETER — Doesn't work, window cracked, broken, dirty.

BATTERY COMPARTMENT — Dirty, corroded, contacts broken.

INTERNAL SWITCHBOARD BATTERY SWITCH — Doesn't operate.

POWER CORDS — Bent, frayed, ignored.

HEAD-VERY NOISEY (YOU & MICROPHONE)

8-11 | 100 HEADSET-MICROPHONE

BOOM — Bty, cracked, misaligned.

LEADS — Frayed, cracked, wire exposed, dirty, disconnected.

HEADBAND — Bent, dirty, cracked, misaligned.

Push that button you a hand is doing for your 80-100 TM 11-2114 (Sep 71) with Changes 1 and 2; TM 11-2004, 304-20P (Jul 63); TM 11-2005-117-11P (Oct 64) for G-12 hand generator; TM 11-1961-200-15P (Jan 60) for H-10 handset microphone.

TIME FOR TWO TUBES

Time to replace a burned-out wiper driver tube in your AM/500Q-4A wiper set's IP-175 wiper and wiper linkage!

Be generous, George, and change both of 'em while you're at it.

That's right, because if it's the V4001 electron tube that has gone kaput, its V4001 twin will carry the load for a while . . . or the wiper. And, you can let your wiperlink wiper the surviving tube's life will be shortened by this power overload.



WARD OFF WATER



When a moisture leak gets to the AM/500Q-4A wiper set's IP-175-1 wiper motor housing coil, it'll short out the wipers. Best advice to moisture is a hard, cracked or broken wiper cover gasket.

Just ring the rim of the coil case and cover with a piece of 1-in green tape (POM #191-209-0000). That'll help keep moisture out.



Cornie Radd's BRIEFS

WE GOT A
MAINTENANCE
PROBLEM!

Wastage With Alcohol

In freezing temperatures alcohol your multifold, diesel and gasoline fuel systems the same. That is, add 1/2 pint of Corbic 10, type C-8-7000 denatured alcohol (204 8810-242-7412 (being a gallon) to every 10 gallons of fuel. It's now OK to use alcohol in heated vehicle's multifold and diesel fuel system too. USEAC, average 1-11600 (3 B Jan 67) to all major Commands and Aviares gives the go-ahead . . . plus other preliminary measures.

Build-In Ammeter

With the turbo-supercharger that's used on some of your turbine truck engines, you've got a built-in spark or-cylinder feature. In a year truck has an L20-427-2 (2 cylinders), an F402-473, L20-462-1 or L20-462-1A engine (2-turbo truck) you'll never have a need for a spark or-cylinder meter.

Cover to Storage

Immediately — the right way — dip both from specially-made plastic coated Storage cloth slipping covers to Storage Army Depot as fast as you take them off. They're in short supply and have to be used over and over again.

Easy on "Night-Eyes"

You ride on M48A2 and M48 tanks and M551 CVT, take heed. Watch your feet as you climb in or out of these tanks. A lot of damage takes in the M551, M551 and M551 related packages are being caused by big leopards. Also, anytime you've got that package out of the tank, handle and lay it down gently. Use the available metal container to ship back any scrap going for repair.

Lower Searchlight Gear

Immediately around a couple of wires in a bunch of Model M-10000 searchlights (Serial Nos. 1084 874 400). The search light turned quicker than a wheel. Get your search light in to (S) for a hot fix.

Don't Run on PE!

Some diesel and multifold engines run with PE-type oil in the crankcase are suspected of being early, as here's the word. Before plating equipment in use, replace the PE-1, -2, or -3 paraffin oil with the right grade of OE. Don't wait till the first oil change. Use your LO's usually say.

This does NOT apply to spark plug equipped engines, which run fine on PE oil for break-in purposes.

Would You Stake Your Life ^{YOUR LIFE} on
the Condition of Your Equipment?

1ST BAY

NO SMOKING
IN SHOP AREA

DEADLINE
FOR PARTS?
HERE'S YOUR
REPAIRABLE
PARTS
TURN-OUT

YOU HELP FEED
THE
SUPPLY
SYSTEM



TURN
IN
REPAIRS

When an item needs repair, turn it over to your support unit. . . . Don't hang on to it. This will only delay getting a new item back for your unit. This applies to all items. . . . Repair parts, assemblies, major items.