



TB 43-PS-414, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all soldiers assigned to combat and combat support units and all soldiers with unit maintenance and supply duties. All information published has been reviewed supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Application of the information is optional with the user.

ISSUE 414

FIREPOWER

MAY 1987

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You are invited to send PS your ideas for improving maintenance procedures, questions on maintenance and supply problems, questions or comments on material published in PS. Just write to:

> MSG Half-Mast The Preventive Maintenance Monthly Lexington, KY 40511-5101

By Order of the Secretary of the Army:

600-Gal Fuel Tanks 54-55

JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

Official

R.L. DILWORTH
Brigadier General, United States Army
The Adjutant General

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LIGHT UNIT WINNERS

Active MTOE HHC. 44th Med Bde (FORSCOM) Active TDA Miesau Army Depot (USAREUR) Reserve MTOE 254th Supply Co (1st Army/FORSCOM) National Guard OMS 22, Co C, 728th Maint Bn (PAARNG)

LIGHT UNIT RUNNERS-UP

Active MTOE 44th Ord Co (USAREUR) Active TDA Woebeck Det, 204th MI Bn (INSCOM) Reserve MTOE 172nd Trans Co (5th Army/FORSCOM) National Guard OMS 8, 1st Bn, 171st FA (OKARNG)

INTERMEDIATE UNIT WINNERS

Active MTOE 513th Trans Co (FORSCOM) Active TDA Consolidated Maint Center, Augsburg (USAREUR) Reserve MTOE 310th Field Hospital (1st Army/FORSCOM) National Guard OMS 24, 2-104th Inf (MAARNG)

INTERMEDIATE UNIT RUNNERS-UP

Active MTOE HHC, 84th Engr Bn (WESTCOM) Active TDA USAISC, Berlin (USAISC) Reserve MTOE 163rd Ord Co (6th Army/FORSCOM) National Guard OMS 4, 199th Spt Bn (LAARNG)

HEAVY UNIT WINNERS

Active MTOE 1st Bn. 6th Inf (USAREUR) Active TDA US Army Field Station Berlin (INSCOM) Reserve MTOE 969th Maint Co (1st Army/FORSCOM) National Guard OMS 1. Co F. 738th Maint Bn (INARNG)

HEAVY UNIT RUNNERS-UP

Active MTOE Co C, 44th Signal Bn (USAISC) Active TDA Logistics Spt Acty, VII Corps (USAREUR) Reserve MTOE 410th Evacuation Hospital (5th Army/FORSCOM) National Guard OMS 1 (NVARNG)



Apintoneno

Excellence

-

(B) and



An auxiliary power unit (APU) handles electricity and hydraulic power for moving ammo. The APU



engine air cleaner uses a dry element with a baffle in the cover.

Make sure the cover is mounted so the word TOP is at the top at all times. Then the baffle in the cover can trap dirt and trash like it's designed to do. Also, pay attention to the warning in the cover—don't use oil in this setup. It'll just catch dust.



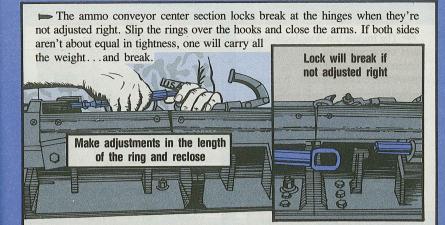
Mount the cover so "TOP" is up. The baffle will trap the dirt

If you lose APU power, you've got a backup source of hydraulics. You can engage the manual hydraulic pump system.

The system engages the backup pump to the main engine. Make sure the system is disengaged, though, before starting the engine or you'll trash the system.

Also, don't pump the system past 150 PSI or you'll blow the hydraulic pump clutch on the main engine.







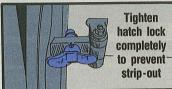


Watch out!
The seat level
adjuster can put you
on the floor



The middle top door locks will end up stripped of their threads unless you tighten them completely every time. Loose hatches bounce,





and that bouncing does a real job on screw threads.

DON'T USE THE X-Y STACKER

FOOT BRAKE PEDAL FOR

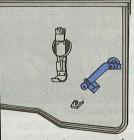
STOMPING EXERCISE - IT

CAN'T TAKE IT. A BROKEN

FOOT BRAKE MEANS THE 4

SIDE TO SIDE UNLESS

STACKER WILL SHIFT FROM



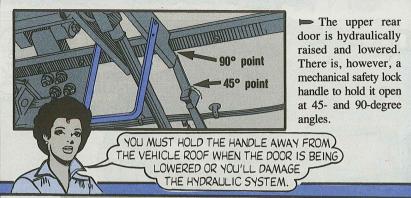
The rear door lock must be correctly locked for cross-country driving

The lower rear door must be locked using the security lock when traveling cross-country. Otherwise, vibration causes the door to open. An open door will be a missing door if the carrier bottoms out in a ditch or hole.

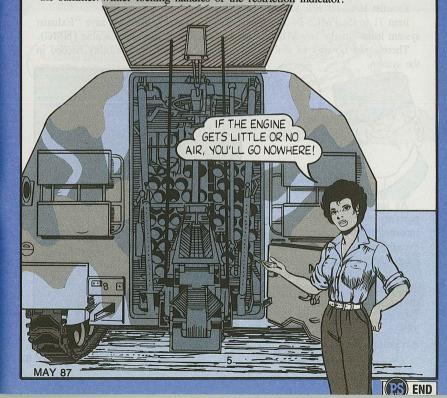
Make sure the plunger knob is completely forward before moving out.

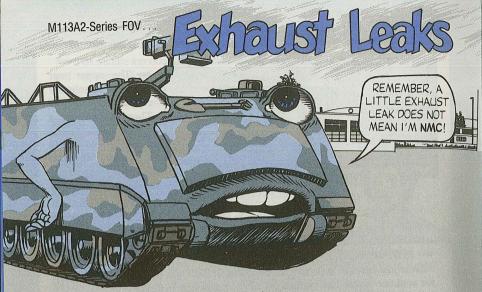
Also, make sure the stacker is secured before you move out. Otherwise, you'll find a lot of hydraulic leaks and cable damage where the stacker head bangs against the hull.





Make all scheduled main engine air cleaner checks. Don't shortchange your vehicle just because you have to move the ammo racks to get to the air filters, the summer/winter locking handles or the restriction indicator.





Exhaust leaks do not deadline your carrier.

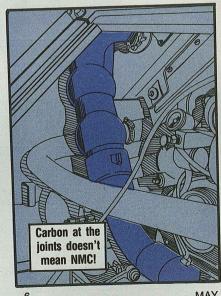
Item 71 in the PMCS of TM 9-2350-261-10 is wrong where it says "Exhaust system leaks" make any M113A2-series vehicle Not Mission Capable (NMC). There's just no way to seal all the joints and retain the flexibility needed in



As long as all exhaust system parts are in place, aligned right and mounted tightly, you're good to go even though exhaust gases carbon up ioints and connecting clamps...

...if the engine compartment access covers and seal are not damaged or missing.

Check out Para 2-14c of AR 385-55, Prevention of Motor Vehicle Accidents.





Safety against carbon monoxide poisoning is provided by the access covers and seals. As long as the covers and seals are installed right, no exhaust gases will escape the engine compartment into the crew compartment.

The PMCS will be changed to show all this. But until it is, persistent exhaust leaks

at bends and joints do not make your carrier NMC.

NEVER OPERATE A CARRIER WITH MISSING ENGINE COMPARTMENT ACCESS COVERS AND SEALS UNLESS IT'S DURING A MAINTENANCE CHECK!

M901/M981...

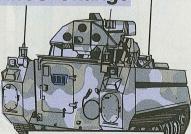
Vision Block PMCS Change

Hold one! No need to mark your M901 TOW or M981 FIST vehicles NMC if the ramp door vision blocks are cracked.

The vision block must either be missing or have a crack that leaks to put a vehicle out of commission.

To tell if vision blocks leak, douse 'em with water when washing your vehicle.

You'll be seeing this new PMCS info_ in the next update to your -10 TM. **MAY 87**



Small cracks in ramp door vision blocks do not make your M901/M981 NMC!

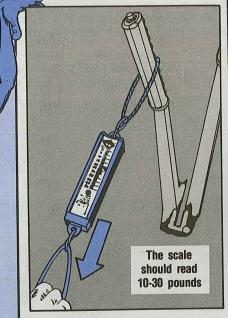
Brake Adjustment Adjusted

Mechs, when you use spring scale, NSN 6670-00-254-4634, to measure the pressure needed to release the lever lock on the differential brakes, make these changes to the procedures in TM 9-2350-261-20-1, TM 9-1450-485-20, TM 9-1450-585-20 and TM 9-2350-247-20-1:

I CAN HELP
YOU WITH
MEASURING
BRAKE PRESSURE
... BUT REMEMBER
TO MAKE THESE
CHANGES!

• Attach the scale with a rope or strap between the scale's hook and the steering lever. Make sure the rope or strap goes around the steering lever at the center finger notch of the hand grip.

 Look for a reading of 10-30 pounds when the lever lock releases, not the 20-30 pounds as shown in your -20-1 TM.



• If you don't get the right reading after making the differential adjustments shown in the TM, sound off to your DS shop.

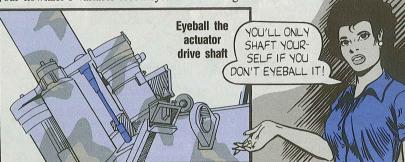
MAY 87

M109-Series SP Howitzers . . .

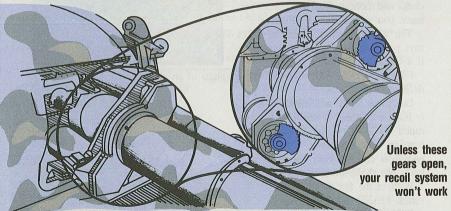
Variable Recoil Must Work...

...or you can be in big trouble when firing with the cannon elevated above 670 mils.

The variable recoil system shortens the cannon recoil when the gun is elevated. If it doesn't work, the cannon can slam into the floor. So how do you know when your howitzer's variable recoil system is working?



Eyeball the actuator drive shaft when you elevate the cannon. At about 670 mils, the drive shaft should begin to turn, opening the recoil mechanism gears. You can see the drive shaft without removing the mechanism cover.



If the drive shaft doesn't turn between 1/4 and 1/3 revolution, chances are your mechanism gears need cleaning and lubing.

See LO 9-2350-311-12 for the details. Make the check before any firing at an elevation of 670 mils or higher and make sure you lube at least every 6 months.



check and monthly fluid level check can leave you with a ruined fan drive.

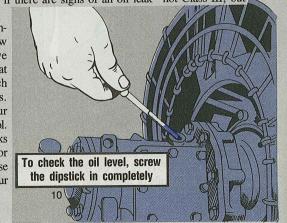
The after-operation check for leaks says your vehicle is not ready/available if a Class III oil leak is found.

OK, that's clear. But what if there are signs of an oil leak-not Class III, but definitely an oil leak?

Don't wait for the next monthly fluid level check to see how much oil is in the fan drive housing. Check it daily. That way you can let your mech know before the fan drive fails.

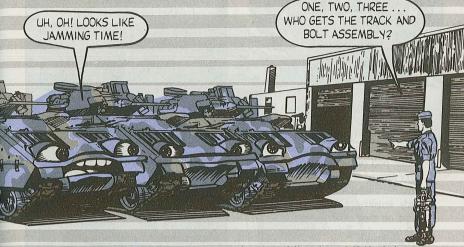
Without the fan drive, your vehicle's engine cannot stay cool.

Just because your PM checks don't require it is no excuse for an unserviced fan drive to cause an over-heated engine. Use your own checks, too. **MAY 87**



M2/M3 Bradlevs...

Keeping Track of Tracks and Bolts



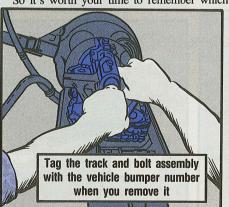
You gunners risk a jammed weapon when you fail to keep M242 chain gun track and bolt assemblies matched when you remove them from your Bradley Fighting Vehicles.

The M242's firing pin must be replaced after 8,000 rounds. Otherwise, the pin's head mushrooms. This can cause the M242 to jam.

If the assembly is installed in the wrong vehicle, you have no idea when the firing pin needs replacing.

So it's worth your time to remember which track and bolt goes with which

11



MAY 87

Bradley when assemblies are removed for storage or upper-level maintenance.

ID the track and bolt assembly by tagging it with the Bradley's bumper number. Or use an ammo box for each assembly with the matching bumper number on the outside of the box.

Remove the track and bolt assembly for storage only if your CO gives the word, though. It's his option whether the assembly's stored for security reasons.

HAWK, Patriot Missiles . . .



AN/TSO-73 Missile Minder circuit cards are being zapped before they can do their jobs because operators and organizational repairmen aren't guarding against Electro-Static Discharge (ESD).

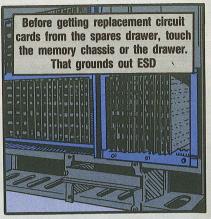
One pop of the static electricity you carry around ruins the Missile Minder's sensitive circuit cards. You can ID the cards sensitive to ESD by the orange stripe on their outer edge.

Protect circuit cards like so:

Position the AN/TSQ-73 van so its doors don't face radar transmitter antennas. Keep the van doors shut during operation. Radar waves increase ESD dangers.

Remove any floor covering from the van that could produce ESD...like carpeting or linoleum.





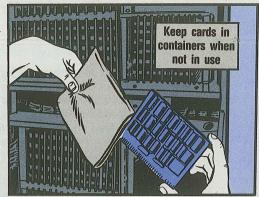




Install and remove cards carefully. Jamming or jerking cards breaks pins.

Remove a circuit card from its anti-static container only when you're ready to plug into the memory chassis. Put the old circuit card immediately in the new card's container.

Never take circuit cards outside the van unless they're in their anti-static containers.



Operators, Don't Lean On It!

AN/TSO-73 Missile Minder teletypewriters are ending up at general support because operators are using the keyboard as an armrest. That breaks off the keyboard...and puts the Missile Minder out of business until the teletypewriter's replaced.

Find something else to lean on, operators.



HAWK Missile...

Loader Accelerator Sticking?

If the accelerator on the HAWK loader sticks, eyeball the accelerator linkage rod, mechs. When the latch load limiter modification (MWO 9-1450-500-50-2) was applied, the linkage rod was installed backwards on some loaders. That causes interference with the roll left lock out solenoid.

The accelerator linkage rod bolt should be on the right side of the rod. If it's not, remove and reinstall the rod. **MAY 87**



Starve Feeder Problems

Dear Editor.

Give dummy

rounds

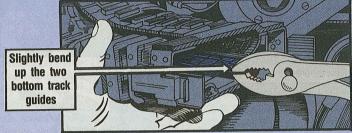
a shake.

Loose?

Replace 'em!

In our unit, we've had to replace 30 Vulcan feed chutes because poor alignment between the feed chute and conveyor unit tears up feed chute track guides. But we came up with a quick fix that gets a lot more life out of feed chutes.

After you put a new feed chute in, use pliers to slightly bend up the



two bottom track guides of the feed chute end assembly. They should just clear the conveyor unit guide bar. A 1/16-in bend should do the trick.

We also had a problem with dummy rounds tearing up the feed chute and declutching feeder assembly. If you use the same dummy round

over and over, the round's back plate becomes worn. That makes for a short or long round.

But you can weed out bum dummy rounds just by shaking all the rounds after they're linked. If a round is loose, it's bad and must be replaced. You can check 'em all in minutes.

It's generally a good idea not to use a dummy round for more than a year. Ammo Supply should have plenty of replacements, NSN 1305-00-157-4616 (A781).

> W01 Peter Lenzner Ft Stewart, GA

SOUNDS LIKE YOU'RE FEEDING VULCAN MECHS SOME GOOD INFO **MAY 87**

Protect Your Cable

Dear Editor.

Soldiers often accidentally break Identification Friend or Foe (IFF) cable connectors.

The connector should stay attached to the soldier's jacket when he's riding in a vehicle. But it's easily detached when he jumps out of the truck and it catches on



something-like the seat-and snaps off.

business.



grab the connector with your hand before you get out of the truckand keep ahold of it while you go to the Stinger storage con-That puts the Stinger IFF out of tainer. You'll never break another connector.

> SFC Richard Middletown **APO New York**

(Editor's note: You've got a good hold on the problem!)

M102-Series Towed Howitzer

Percussion Mechanism Out

YOU CAN NO LONGER GET PERCUSSION MECHANISM, NSN 1015-00-863-1060. AS AN ASSEMBLY. INSTEAD, YOU NEED THESE FIVE PARTS

NSN 1015-00-180-5372—firing pin

NSN 1015-00-863-1057-quide NSN 1015-00-723-6456—firing pin stop

NSN 1015-00-852-5695-pin

NSN 5360-00-723-6486-spring

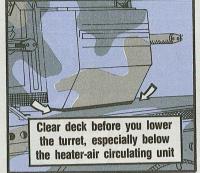
Damage Avoiders

Prevent turret and electrical damage to your Chaparral by minding these tips:

• Electric track motors are being ruined because soldiers aren't clearing the deck underneath the mount before they lower the turret. If something like camouflage netting gets between the heater-air circulating unit and the deck, the turret can't go all the way to stow position. That means the electric track motor can't click off.

The motor keeps trying to lower the turret until it wears itself out. Clear the deck before you lower the turret.

• M75 sights are being busted because soldiers are leaving objects loose in the gunner's compartment. Something like a helmet can fly up when your Chaparral



hits a bump going down the road and-BANG!—the sight's broken. That deadlines the whole system. Secure or remove loose objects before you move out.

Be careful getting in and out of the panel switches can easily be broken by a misplaced boot.

• Electronic equipment is being shorted out because soldiers are spraying water around the gunner's compartment, the missile rails, the turret well and the rear electrical compartment. High pressure water's fine for cleaning track and the sides of the carrier. But for anywhere else on the Chaparral, clean with a bucket of water, detergent and a brush. That will save electronic equipment.



gunner's compartment, too. Things like the sight, gunner's headset and control



M16-Series Rifle ...

Weed Out Bad Magazines

M16A1 rifles are still malfunctioning because armorers aren't weeding out Cooper magazines and turning them in.

The 30-round magazines made by Cooper Industries don't fit the magazine well, they double feed and they won't feed the last five rounds when fully loaded

So, armorers, check the bases of all vour unit's magazines for "Cooper." If you find any, turn 'em in to your supply support.

SUPPORT SHOULD PACKAGE THE MAGAZINES AND SEND THEM TO:

> Commander **Anniston Army Depot** ATTN: SDSAN-DSP-PPC Anniston, AL 36201

The word's in AMCCOM Message AMSMC-MML-S 201545Z Jun 85.

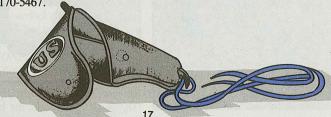
M1911A1 Pistol...

Spring Standard STRETCH!

One more time on spring lengths for those M1911A1 pistols, armorers. AMCCOM has changed the recoil spring standard to 6 inches minimum and 71/4 inches maximum free length. As long as your springs are within those limits, they're OK.

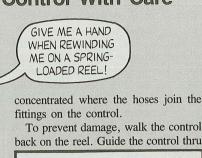
M1911A1 Pistol Holster Helpers

You armorers can now order restraining lace for the hip holster with NSN 1005-00-300-5378. To keep the holster clean and soft, use saddle soap, NSN 7930-00-170-5467.

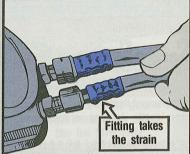


M978 HEMTT Tanker...

Handle Control With Care



To prevent damage, walk the control back on the reel. Guide the control thru



hand-actuated valve assembly (deadman control) rewind by itself, the control can be ripped off the pair of hoses.

The hoses wind up on a spring-loaded reel. When you pull, the hoses come out. Let go, and the spring takes over to pull the hoses back onto the reel.

If you let your HEMTT tanker's

But the control must be horizontal as it passes thru the cutout on the back of the truck. If it's not, it won't go

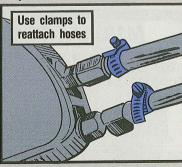
thru. All the strain of the sudden stop is



the hole and back to the reel.

If hoses pull away from the fitting crimped on the end, here's a fix:

Cut off a couple of inches of each hose and push them back on the fittings. Then



use screw-type hose clamps, NSN 4730-00-363-4102, to secure the hoses.

M939-Series 5-Ton Truck

Air Filter Fouled? —

When checking air filters on M939-series 5-ton trucks, we've found Dear Half-Mast, filters fouled with oil. Where's it coming from? Mr. W. K.

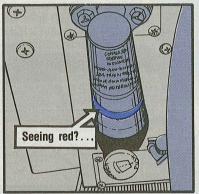
Dear Mr. W. K...

The fuel tank, transmission and transfer gearcases on M939-series trucks vent into the duct to the air cleaner.

Fuel from an overfilled tank can run thru the vents...and end up in the gearcases. Then, oil from an overfilled gearcase may be forced out thru the vent lines...and end up in the air cleaner.

Or a leaking interlock air cylinder can pressurize the transfer...and push oil into the air cleaner.

If the air restriction indicator shows red, check the air cleaner. If it's oil clogged, check the levels in the transmission and transfer.



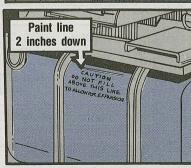


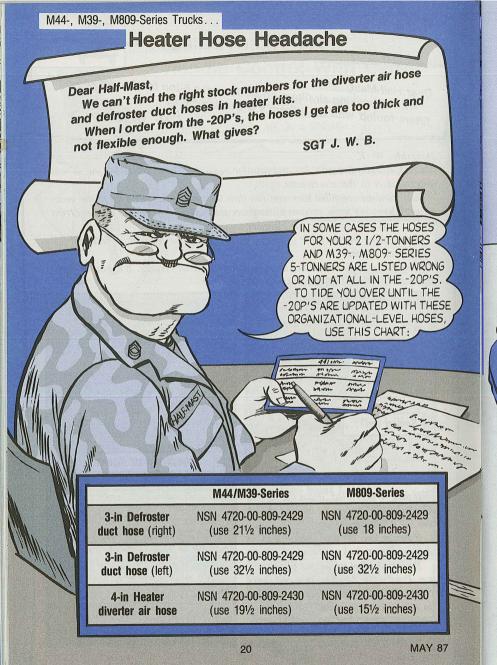
If they're overfilled, drain the excess. Check for fuel diluting the oil, and change the oil if necessary.

If they're low, get your support to check the transfer interlock air cylinder for leaks.

Be sure the fuel tank is not filled to the top. Paint a line 2 inches down and stencil "CAUTION: Do not fill above this line to allow for expansion" in 1-in black letters, like Fig 17 of TB 43-0209 shows.







M915-Series Trucks...

A Bendix AD-2 air dryer has been added to M915 thru M920 trucks. But servicing instructions aren't in TM 9-2320-273-20, and parts aren't in the -20P. This is the same air dryer that's used on M915A1 trucks.

The dryer removes moisture from the compressed air used in the brake system and the transmission.

It replaces the alcohol evaporator that didn't remove moisture, only kept it from freezing.



GET A MANUAL FOR THE AIR DRYER FROM:

TACOM ATTN: AMSTA-MTC Warren, MI 48397-5000



Get replacement dehydrator cartridges for the air dryer with NSN 4440-01-087-7216. Refill kits come under NSN 2940-01-081-1391.

Air Dryer Parts 'n' Pubs

M911 Rear Wheel Bearings

Get the adjusting nut lock (tab nut) for the M911's rear wheel bearing with NSN 5310-01-145-9118. The nut lock's part number, listed as Item 13 in Fig 117



Get tab lock with NSN 5310-01-145-9118

of TM 9-2320-270-20P, is wrong. Tighten the outer nut on the rear wheel's outer bearing to 250-275 lb-ft. That's not in your -20, so make a note.

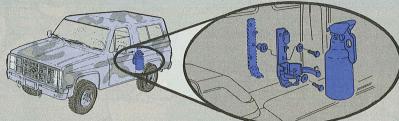
MAY 87

M11 Decon...

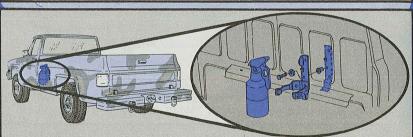
CUCV Questions Answered



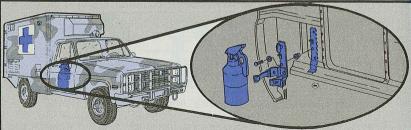
THE WAIT IS OVER, NBC NCO'S.
INSTRUCTIONS FOR MOUNTING THE
MIT'S IN CUCY'S ARE HERE!



• M1009—Mount the M11's bracket to the left of the cargo compartment in front of the left rear wheel well behind the driver's door frame.



M1008, M1028, and M1031—Mount it behind the driver's seat on the left side
of the cab's rear wall.



• M1010—Mount it behind the co-driver's seat on the right side of the cab's rear wall. For the M1010, remove the passenger seat to install the bracket.

To do the job on all CUCV's, you need a 31/64-in drill bit, three expansion shields, NSN 5340-01-150-4105, three cap screws, NSN 5305-01-128-4094, three washers, NSN 5310-01-112-6655, and silicone sealant, NSN 8040-00-877-9872.

Use the sealant to coat the three expansion shields before you put them in the holes. Then coat the three shield faces before you screw in the bracket. That will keep out dangerous engine exhaust gases.

M8 Alarm

The word on installing M8-series alarms in the CUCV should be out shortly. PS will publish the info, so keep your eyes peeled.

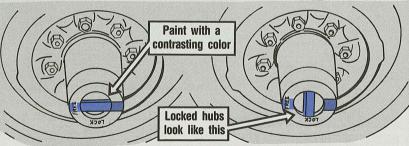
CUCV..

Locked or Free?

Dear Editor.

It's hard to see if the CUCV's four-wheel drive front wheel hubs are locked or free when the vehicle's camouflaged.

I solved the problem by freeing the hubs and painting a strip across them. Use a color that doesn't contrast too much with the camouflage.



This lets drivers know at a glance whether the hubs are in lock or free.

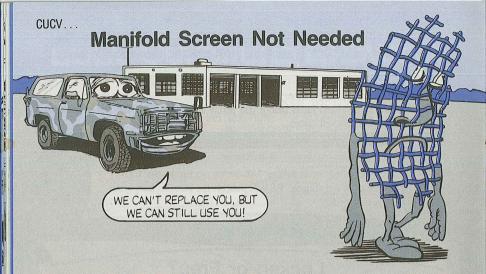
SSG James W. Wacaster
Ft Richardson, AK

(Editor's note: Picasso couldn't have
done it better. No matter which color
paint you use, get your CO's OK.)

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MAY 87

MAY 87



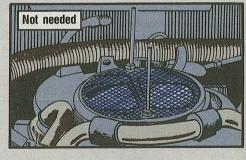
Your CUCV may have an intake manifold screen-or it may not. No sweat

either way.

The wire mesh screen was installed on early CUCV's to keep junk from falling into the manifold.

It was later decided the screen's not needed.





IF YOUR CUCV HAS ONE, LEAVE IT BE. IF NOT, DON'T WORRY!

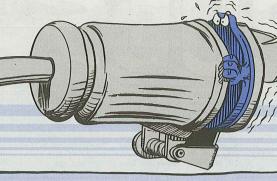
M1008 CUCV Tailgate

Even though the M1008 CUCV's tailgate is called out and illustrated as an assembly in TM 9-2320-289-20P, you get only the tailgate when ordering NSN 2510-01-155-5857. The mounting hardware and other components, also called out in Fig 124, must be ordered separately.

Trailers...

Seals—In or Out?

THERE'S NO
WAY I'M GONNA
GIVE THIS CAP
A GOOD SEAL!



Dear Half-Mast,

Is a rubber seal needed in a trailer's intervehicular cable connector cover? This is the cable on trailers such as the ¼-ton, ¾-ton and 1½-ton jobs. It's not issued with a seal, and we've been told not to add one.

CW4 R. H.

Dear Mr. R. H.

Don't put a seal in the cover. It does more harm than good.

A seal holds the cover part way open and lets water get in thru the indexing slot. The corrosion eats away on the connector pins.

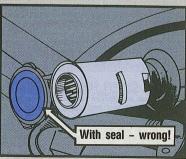
The cover works fine the way it's made. Just make sure:

- The edge of the cover and the rubber part of the connector are in good shape so they seat together snugly.
- The cover spring is still strong enough to hold the cover down firmly.
 - The cover rivet is tight.

If the rivet is loose, hold something solid behind it and give it a few taps with a ball-peen hammer.

few taps





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This is a selected list of recent pubs of interest to organizational maintenance personnel. This list was made from a computer printout provided by the Adjutant General.

TM 9-4935-396-24P Mar Pershing II Missile

TM 9-4935-602-14-3 Aug Patriot Missile

TM 9-4935-632-14 Sep Roland Missile TM 9-1110-254-14 Jul EOD info, weapon access delay system

TM 9-4935-602-14-1 and -2 Aug General electric test systems 1000A, 13228950 Patriot

TM 9-6920-742-10 Jul RETS console target training set, range control station M87

TB 55-1520-241-20-41 Jan One-

time inspection of CH-47A, B, C transmission

TB 55-1520-242-20-24 Jan UH-1H/ V/M and EH-1 one-time inspection cleanup

TB 55-1520-242-20-25 Jan Night vision goggle operation UH-1H/V TB 55-1520-243-20-12 Feb Inspection of AH-1, TH-1, TAH-1, UH-1C/M main rotor yoke

AUDIO-VISUAL STUFF

Available at battalion or post Learning Center

TEC Lessons

010-071-7414-A Remove a Misfired TOW Missile from M2/M3

010-071-7427-A Extinguish a Fire on an M2/M3

010-071-7473-A Identify the Procedures to Consolidate and Reorganize an M2

476-091-1064-A Adjust Breech Mechanism Operating Carn on M109-Series SP Howitzer

476-091-1156-A Adjust Equilibrated Elevation Systems on M109-Series SP Howitzer

479-091-2474-A Repair Defective Oil Pump on M3A3 Smoke Generator 479-091-2475-A Operation Test on M3A3 Smoke Generator

482-091-2027-A Adjust Brakes on M109-Series SP Howitzer

489-091-1168-A Remove and Install M1 Tank Breech Closing Mechanism 491-091-1015-A Disarm TOW Missile Manually

Maintenance & Safety-of-Use Messages

AMCCOM SOU-MSG— Advisory, Operational, forward holding lug on M142 machinegun mount for 7.62MM, M60 machinegun breaks. AMSMC-MA, 0520007. Jan 87.

AMCCOM SOU-MSG-87-9— Advisory, Technical/Maintenance, M88A1 MRV hoisting boom operational procedures update, AMCSF, 091315Z Feb 87.

AMCCOM SOU-MSG-87-7— Advisory, Operational, M981 FISTV battery hazard, AMCSF, 041540Z Feb 87.

AMCCOM SOU-MSG-87— Onetime inspection on M4K 4,000-lb rough terrain forklift NSN 3930-01-076-4237, brake system. AMCSF, 041530Z Feb 87.

AMCCOM SOU-MSG-87-01— Advisory, Operational, duct type gasoline driven heaters safety hazard. AMCSF, 041630Z Feb 87.

AMCCOM SOU-MSG-86-100— Operational, aircraft tank trucks restrictions/limitations in SOU MSG 86-32, 191100Z Jun 86 lifted, AMCSF-E, 211435Z Jan 87.

CECOM SOU-MSG— Advisory, Operational, Update to MSG DTG 211430Z Nov 86, on AN/MJQ-16/18 diesel generator sets. AMSEL-SF-SEC, 051400Z Feb 87.

TACOM SOU-MSG-87-11— Advisory, Technical/Maintenance, AGT-1500 Engine, power turbine stator actuator fire hazard on Abrams tanks. AMSTA-MCD. 171100Z Feb 87.

TROSCOM SOU-MSG— Maintenance Advisory, three ring canopy release and MA2-30 wrist mounted altimeter maintenance. AMSTR-MES, 161500Z Jan 87.

TROSCOM SOU-MSG-02-87— One-time inspection of duct type gasoline engine driven heaters fuel pressure check valve. AMSTR-MES, 091430Z Feb 87.

Your Direct Support or Logistic Assistance Office (LAO) can provide you with more information.

AVIATION MESSAGES

If your unit has not received a message you have an interest in, check with your next higher headquarters.

AH-1-87-01, SOF, Technical, Inspection of main rotor yoke, 202100Z Jan 87. AH-64-87-01, SOF, Revision to Maintenance Mandatory, connector wire sealing, 301730Z Jan 87.

CH-47-87-01, SOF, Maintenance Mandatory, Inspection of certain CH-47D aircraft rotor head, 121730Z Jan 87. CH-47-87-02, SOF, Maintenance Mandatory, engine cross shaft inspection, 261630Z Jan 87.

OH-6-87-01, SOF, Operational, aircraft with T63-A-700 engine, flight restrictions, 121900Z Jan 87.

CAT 1 EIR Phone AUTOVON 693-2066 (24 hours)

OH-58-87-01, SOF, Operational, aircraft with T63-A-700 engine, flight restrictions, 121900Z Jan 87. UH-1-87-01, SOF, Technical, Inspection

clean-up, 051500Z Jan 87. UH-1-87-02, SOF, Technical, Inspection of main rotor yoke, 202100Z Jan 87. Bulged cartridge casings material are available from PS for reprinting

Headspace and time your M2...before firing... after assembling the gun...after replacing the barrel.

And do it every time!



M2 Machine Gun...

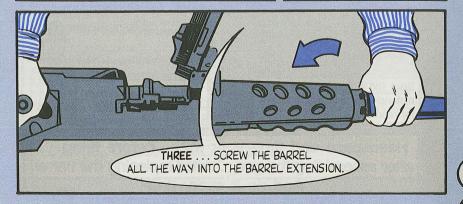


TWO ... PULL THE CHARGING HANDLE BACK UNTIL THE BOLT RETRACTS 3/8 INCH. THE BARREL-LOCKING-SPRING LUG MUST BE CENTERED IN THE HOLE ON THE RIGHT SIDE OF THE RECEIVER.

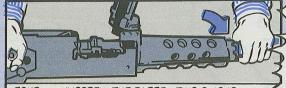


THE EASIEST WAY TO KEEP THE BOLT IN THAT POSITION IS TO INSERT THE SMALL LOOP OF AN AMMO LINK BETWEEN THE TRUNNION BLOCK AND BARREL EXTENSION. OR YOU CAN HOLD THE BOLT IN PLACE.



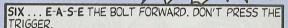


Alvays make sure your Ma is clear of amno before you begin headspecine or timing.

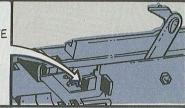


FOUR ... UNSCREW THE BARREL TWO CLICKS. LET THE BOLT GO FORWARD.

FIVE: COCK YOUR M2 BY PULLING THE CHARG-ING HANDLE AND BOLT ALL THE WAY TO THE REAR. HOLD IT THERE. THIS COCKS THE WEAPON AND MOVES THE FIRING PIN BACK SO THE HEAD-SPACE GAGE WILL GO IN





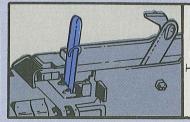


WITH THE BOLT

FORWARD, TRY TO TURN THE BARREL IN EITHER

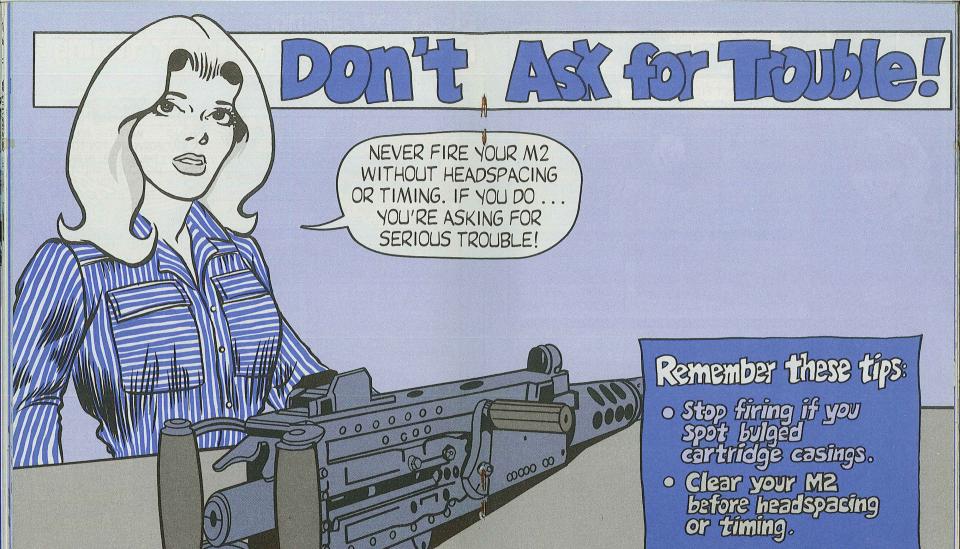
DIRECTION. IF IT TURNS DON'T TRY TO FIRE TELL YOUR ARMORER.

THEN TRY THE OTHER BARREL

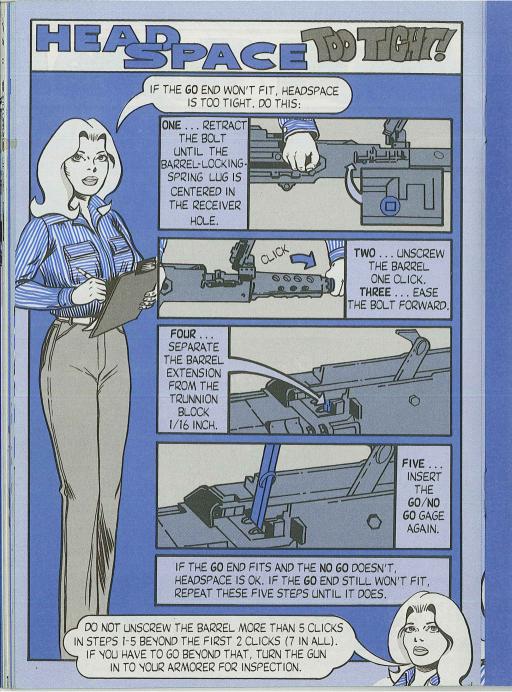


EIGHT ... RAISE THE EXTRACTOR AND INSERT THE GO/NO GO GAGE. HOLD THE CHARGING HANDLE BACK TO **KEEP THE 1/16-**IN SEPARATION.

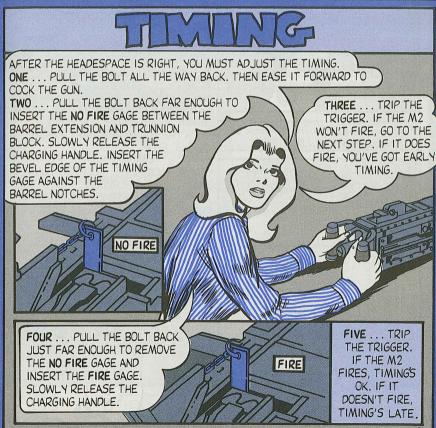




WE HAVE THE WORLD'S BEST EQUIPMENT ... Take care of it

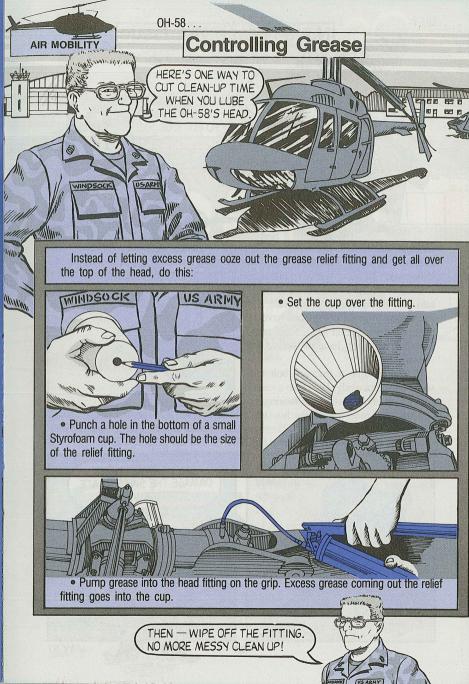






MORE



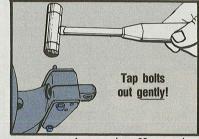




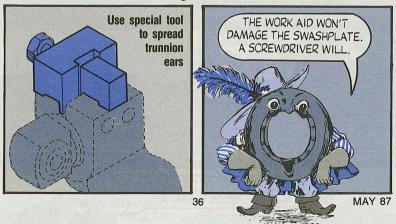
Some Huey mechs are forcing the trunnion bolts off when they remove worn bearings from installed swashplates. They're using a wrench and turning the bolts if they won't come out with hand pressure.

Trouble is, the steel bolts cut threads into the aluminum bore and ruin the swashplate. Then these mechs have to change out more than just a worn trunnion bearing-they have to replace the swashplate, too.

If you run into a trunnion bolt that won't come out easily, latch onto a mallet and tap the bolt out of the housing.



Then, you must spread the housing ears to remove the trunnion. Here again, some mechs force the issue. They grab the handiest tool, like a screwdriver, instead of the work aid shown in Fig 5-38 of TM 55-1520-210-23-1.



Tire Safety



You mechanics are gamblin' on a tire explosion if you inflate Black Hawk tires using the equipment you're issued.

You need to order a tire inflator assembly kit, NSN 6685-00-124-4336-like

right now!

When you inflate tires directly from the nitrogen servicing cart, there's no way to tell how much pressure's in the tire. Worse, you can't control or stop inflation when the pressure goes over the maximum!

The tire inflator assembly includes a hand-held pressure gage that lets you control and stop inflation from 10 feet away.

Be sure to use a safety cage when you work on main and tail tires.

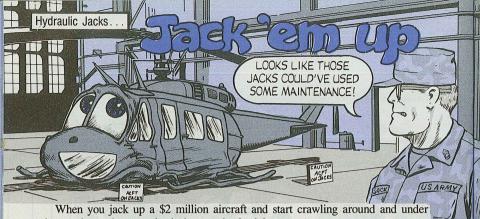
The tire inflator's listed on Page 1-9 of Change 36 to TM 55-1520-237-23-4. Order it on a DD Form 2765, using AVSCOM Msg AVSAV-ME 032000Z Jul 86 as your authorization.

MAY 87

Inflator assembly kit,

NSN 6685-00-124-4336

UH-60A...



it, you better be sure the jacks can do the job.

If a worn out or poorly maintained jack fails, neither you nor your aircraft may get back up in one piece.

Inspect and lube all hydraulic jacks periodically as called for in your TM's.

Check the hydraulic fluid reservoir of your 3-ton tripod jack daily. Make sure the fluid level is within a half-inch of the bottom of the filler plug hole. Top it off with MIL-H-5606 or MIL-H-6083 hydraulic

Lube the pump rocker arm and link pins weekly

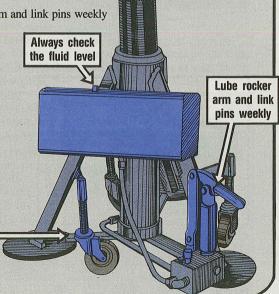
with oil, MIL-L-7870, Brush a light film of the same oil on the jack's rams and caster legs monthly.

fluid if it's low.

Lube the leg caster horn bearings and wheel bearings with grease, MIL-G-10924. Lube horn bearings monthly and wheel bearings quarterly.

'Course, don't wait for scheduled lube service if any of the lube points look dry or show evidence of lube contamination.

> Grease horn and wheel bearings



Inspection Requirements

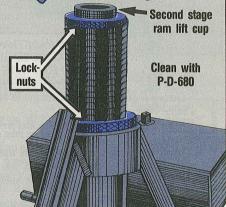
At least every 3 months, eyeball your jacks' components for structural defects and cracks. If you find any, don't take any chances-replace the parts. You also need to have the jack assembly tested like it says in Para's 4-26 through 4-32 of TM 55-1730-222-12.

Once a year, purge and flush the hydraulic system and refill it with MIL-H-5606 hydraulic fluid. Then have it tested per Para's 4-26 through 4-32 of the TM.

Before each scheduled lubrication and inspection, give your jacks a good cleaning.

Use a mild detergent solution to wash the painted surfaces of jack legs, outer cylinders, head, base and footpads. The same detergent you use to wash your aircraft-MIL-C-25769-will do the job. NSN 6850-00-935-0995 gets a 55-gal drum of the cleaner.

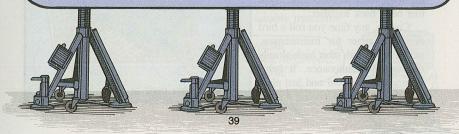
Clean the second stage ram lift cup, ram locknuts and pump assembly with a clean cloth lightly moistened with dry cleaning solvent P-D-680.



Precautions

Be careful not to get any solvent or cleaning compound into the hydraulic system or on lubricated areas. Solvents and cleaning solutions not only dilute hydraulic fluid and lubricants, they'll cause rapid wear and damage to components.

'Course, any time you use a solvent, make sure you're in a well-ventiliated area. Wear gloves and goggles to keep it off your skin and out of your eyes.





a mine field.

Since hangar space is so scarce and so valuable, bird mechs, make the best use of it

Start by making sure walkways are marked and kept clear of equipment, tools, parts, etc. AR 385-30 has the info you need for painting hangar floors. NSN 8010-00-248-2839 gets a gallon of yellow paint. NSN 8010-00-082-2598 gets 5 gallons.

Store all ground support equipment of one kind, like jacks, ground handling wheels and maintenance platforms, in one place—out of the way—so you won't

have to go looking for it next time vou need it.

If you don't already have storage bins for disassembled parts, get AVIM to make some for you. Keeping all disassembled parts from one bird together can make your job a lot easier when it comes time to put that baby back together.

'Course, any time you roll a bird into the hanger for maintenance, park it in line with other birds already undergoing maintenance. It helps keep walkways clear and just plain looks a lot better.





Locate for

easy access

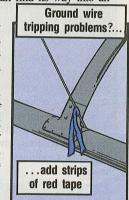
Help keep the hangar clean by using oil pans to catch leaking oil and disposing of oily rags in a self-closing metal can. Clean up oil spills pronto with a sweeping compound.



You should have several FOD depositories throughout your hangar, too. Use them for discarded hardware, wire and other trash that can find its way into an engine or transmission.

Eyeball the tag on all fire extinguishers to make sure an inspection is not overdue. If an extinguisher is not fully charged, it won't help much during an emergency.

Static electricity is always a problem in an enclosed area. If one of your birds is leaking fuel, any spark could ignite the fumes and spoil your whole day. So make sure every bird is grounded. And if the ground wire is a tripping hazard, add a few strips of red tape so it can be seen easier.



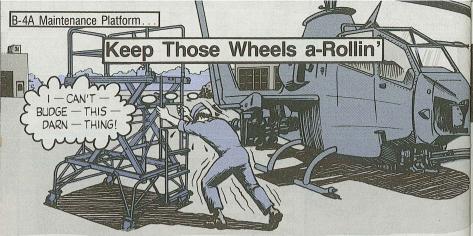
Another good safety precaution is to cushion sharp objects like cutter blades and stabilator edges with Styrofoam or another suitable material.

A CLEAN, SAFE, AND WELL-ORGANIZED HANGAR WON'T AUTOMATICALLY MAKE YOU A BETTER MECHANIC. BUT IT WILL GIVE YOU THE CHANCE TO BECOME A BETTER MECHANIC. GO FOR IT!









Ever wonder why your B-4A maintenance platforms are so ornery when you're trying to move 'em from Point A 724-2647 (without brake), are lots easier to Point B?

born, but they get downright muleheaded lubed.

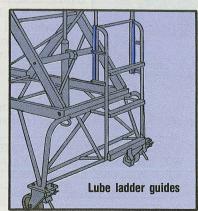
'em with GAA every 100 hours of use, but keeping an hourly use chart on maintenance platforms is tough.

314 every two or three months under normal conditions, more often under abnormal conditions, like when you're in the field.



The new wheels. NSN 5340-00-205-5608 (with brake) and NSN 5340-00to lube 'cause they've got grease fittings. Those critters are just naturally stub- Just slap a grease gun on 'em and pump 'til you see old grease coming out the if you don't keep the wheel bearings sides. If the old grease looks discolored, keep pumping until you see new grease TM 55-1730-215-13&P says to lube coming out the sides. Be sure you trash all the purged grease.

While you're at it, smear GAA on the platform's ladder guides connecting the So schedule lubes on your DD Form upper and lower sections of the ladder, like it says in Para 3-13 of the TM.





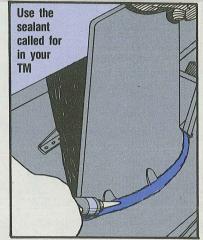
Some RTV silicone compounds are taboo for aircraft use. The note in Para 3-95 of TM 55-1500-204-25/1 explains the rule of thumb when using RTV:

If it smells like vinegar (acetic acid). don't use it. It causes corrosion.

RTV 730 has a strong vinegar odor. So never use it on aircraft instead of what your aircraft's maintenance manual calls for.

The only RTV sealant approved for aircraft use conforms to specification MIL-A-46146.

Some adhesives and sealants have several applications, but unless your TM's say you can substitute one adhesive/ sealant for another adhesive/sealant, don't do it. Stick to the one called for in your TM's.



MEK & P-D-680....

MAY 87

Handle With Care!

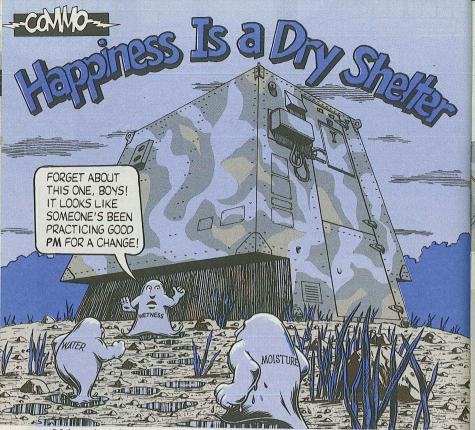
Bird mechs, anytime you're working with a solvent like MEK (methylethyletone) or P-D-680, play it safe.

Solvents are toxic and flammable!

- Always wear solvent-resistant clothing and gloves plus a face shield or goggles.
- If you get solvent on your skin, wash the area with soap and water as soon as possible.

• If you have to work with solvent in close quarters or in a poorly ventilated area, use a respirator, NSN 4240-01-015-5194, for filtering organic vapors. CTA 50-970 is your authority for ordering the respirator.

TB MED 502 has the word on respirators and DA Pam 385-3 has the info on protective clothing.



Moisture in shelters—such as an S-250 is knocking out commo gear.

It's a constant hassle keeping wetness away from those radios, switchboards, computers and switching equipment. But



you can knock moisture down and out with a fistful of PM.

Look for punctures in the shelter's skin. Get 'em fixed-pronto! TB 43-0124 tells who fixes what and the tools and materials for repair.

To block low blows to the belly of the shelter, eye the ground area before setting the shelter off its vehicle. Rocks or other sharp objects can poke holes.

A puncture underneath lets dampness seep all inside the walls, knocking out electrical circuits as well as commo equipment.

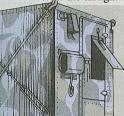
So check the bottom for damage when the shelter's lifted.

Air Beats Wet

When the door and louvers are closed. differences in inside and outside temperatures add to moisture buildup.

Keep fresh air moving around inside your shelter to dry things off.

With the airtight door closed and the



AN/GRC

AN/VRC-

Close door. open louvers. turn on fan

louvers open, turn on the ventilating fan to push the air around.

Dry Under Mats

Moisture under floor mats leads to mildew and mold buildup.



Stomp these commo wreckers out by wiping off the mats, top and bottom, with a clean, dry cloth.

Radio Sets, Installation Kits...

Updated SB Sent Out

IF YOU DIDN'T GET YOUR NEW SB 11-131 (NOV 86), VEHICLE RADIO SETS AND AUTHORIZED INSTALLATIONS, HAVE YOUR PUBS CLERK ORDER ONE!

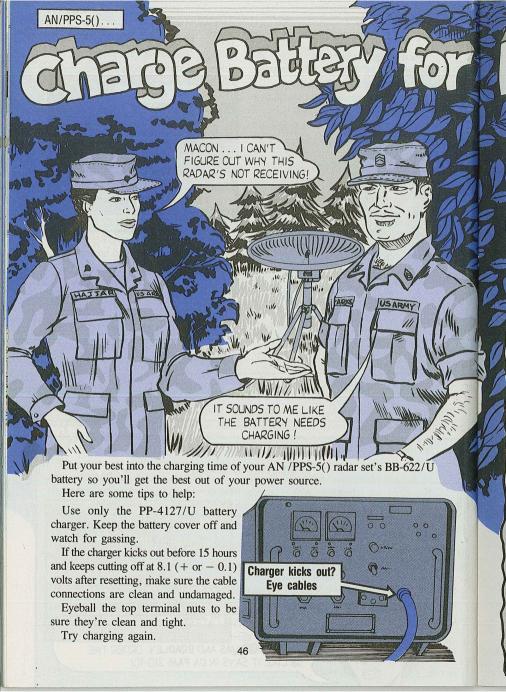


SB 11-131

3-51. VEHICLE, COMMERCIAL, UTILITY, CARGO, M1009

	SINGLE INSTALLATIONS		Jumy	
Radio set	Installation kit type no.	Installation kit NSN	Installation instructions	
AN/VRC-12	MK-2415/VRC	5820-01-175-7412	Book Plan Ref. No. 811	
AN/VRC-24	MK-2451/VRC-24	5820-01-185-9227	Book Plan Ref. No. 837	
AN/VRC-43	MK-2416/VRC	5820-01-175-2109	Book Plan Ref. No. 812	
AN/VRC-44	4K-2417/VRC	5820-01-175-2110	Book Plan Ref. No. 813	
AN/VRC-AN/GRC	THE SB (FOR YOU	5820-01-175-2105 HAS THE LATEST INST R VEHICLE, INCLUDING	Book Plan Ref. No. 814 ALLATION KIT INFO THE CUCY	

HMMWV, ABRAMS AND BRADLEY. ORDER THE SB LIKE IT SAYS IN DA PAM 310-10!



Par Parformance

If the battery fails to charge right after an extra 24-hour waiting period, turn it in. If charging time goes past 20 hours, look for a short or a bad charger.

Heavy gassing in three of the four cells—with the charger going—is a sure tip-off to a short. Check each cell. If any are shorted, turn the battery in.

Those tips are for initial charging. And remember, never discharge a battery below 5.2 volts. During recharging, the charger will trip when the battery is fully charged, usually at $8.1 \ (+ \ or \ - \ 0.1)$ volts.

Once it trips, let the BB-622 cool. Press the charge circuit ON. If the charger shuts off in 5 to 15 minutes, the battery's ready.

If your fully-charged battery won't power your radar for at least 4 hours, turn it in for another one.

MX-6707 Matching Unit...

Shed the Water Pain

High pressure water will drown your matching unit—and so will rain that gets by an improperly tightened reinforcing ring.

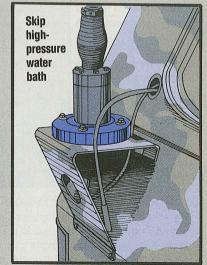
To head off water damage:

- Lay off using the high-pressure water hose to clean the unit.
- Keep the steel reinforcing ring, NSN 5985-01-012-5425, in place, but not too tight.

Torque the mounting bolts to 100 lb-in, like it says on Page 2-19 of TM 11-5820-401-20-1.

Tightening too much cracks the plastic cover, letting water in.

Be sure to drain the unit at least quarterly. During wet weather or in areas where the humidity's high, do it more often.





Leave the balancing act to the circus clowns!

When you pull a TD-660 multiplexer out of its AN/TRC-145 radio terminal set

rack, use the support shelf.
There's no need for you

operators and unit repairmen to balance a 50-lb multiplexer on the rack's edge while you handle the cables and work in the back. Pull it out and set it on the shelf.

Newer Track-145's—serial number 47 and higher—have the shelf.

If the shelf's damaged, replace it. If you've got an older AN/TRC-145 without a shelf, add one. Order on

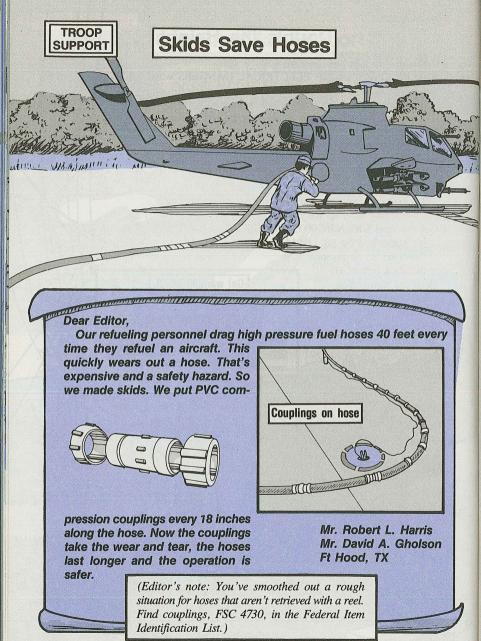
a DD Form 1348-6 using FSCM 80063 PN SCD681135 from RIC B16.

If you're working on the multiplexer's plug-in panels, use a light touch. Before you push them in, be sure the guide pin mates with the case receptacle.

With all the panels installed, replace the front cover. It keeps the panels in place. The cover also keeps dirt and moisture out of the case.



Tower Antenna... **Double the Height** We've said it before, and we'll say it again... ...BE CAREFUL OF ELECTRICAL DANGERS when you're putting up mast or tower antenna. If you don't-and the antenna falls against a power line—ZAP!—you're gone. That happened recently. Don't let it happen to you. Be sure there's plenty of room between the mast and any power lines. Stay at least twice the height of the antenna away from the lines. To jog your memory next time you set up an antenna, put a warning label on the mast. Get the label with NSN 9905-00-511-8751. It's authorized by SB 11-614 (Jun 67). Don't set up an antenna if there's a hint of an electrical storm. You **Get warning label!** could get zapped by lightning. Keep away from the antenna until THIS EQUIPMENT SHALL NOT BE the storm's passed. INSTALLED CLOSER THAN TWICE
ITS HEIGHT FROM POWER LINES



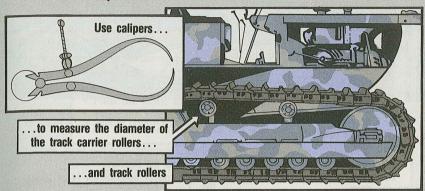
D7E, D7F Tractors...

Worn to the Limit?

Here's how to tell when your dozer needs new track parts.

Roller & Links

Use caliper, NSN 5210-00-229-3035, to measure the diameter of the track rollers and track carrier rollers. Replace track rollers if they measure less than 7 7/8 inches. Replace the carrier roller when it's less than 6 3/4 inches.



If point touches— the drive sprocket's shot

Sprocket Wear

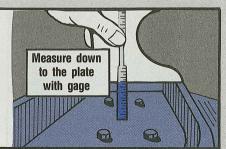
Use a drive sprocket wear gage to check sprocket wear. Get one that'll measure D7, D8 and D9 sprockets with NSN 5210-01-225-1132.

Set the point of the gage marked for the D7 between the teeth of the drive sprocket. If the point doesn't touch bottom, the sprocket's OK. If it touches, get support to replace it.

Track Shoes

Use broad-based depth gage, NSN 5210-00-221-1902, to measure the height of the grousers. Set the base across two adjacent grousers and measure down to the plate. If it's less than 1 1/2 inches, replace the shoe.

Your authority to order the caliper and gages is Appendix A of CTA 50-970.



50



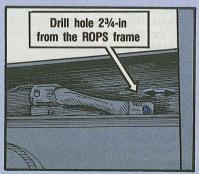
Backing an M4K forklift is dangerous business. Ground guides are a must to "see" what's behind you.

Rearview mirrors mounted on the floodlight mounting bars can help, too. Get your commander's approval before you add the mirrors.

You need two 5-ton truck convex wide-angle mirror assemblies, NSN 2540-00-401-8337.

Here's the fix:

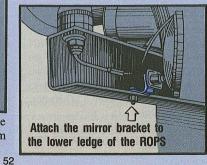
- Using a vise, bend the mirror mounting arm ends at 45-degree angles, in ing arm against the hole you drilled. opposite directions.
- at a 90-degree angle.



• Drill a ¼-in hole in the back of the floodlight mounting bar, 2% inches from the ROPS frame.

- Hold one end of the mirror's mount-
- Mark the location on the lower ledge • Bend the mirror's attaching bracket of the floodlight mounting bar for the mirror's support bracket.
 - Drill a ¼-in hole in the lower ledge at the spot the bracket mounts.

Use the mounting hardware that comes with the mirror.





If the engine in your Cat D7 or D8 tractor is running cold or overheating, it could be the fan blades are not adjusted properly.

Your Cat's blades can be set to either pull air in thru the radiator or to push air out thru it.

Set the blades to match the season. For hot weather, turn the blades to push air out thru the radiator and carry heat away from the engine.

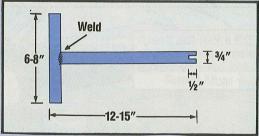
For cold weather, reverse the blades to pull air thru the radiator and blow the warmed air back over the engine. That helps keep the engine up to operating temperature-where it runs best.

To change the fan, you've got to adjust each blade—with the engine off—like so:

- Push the blade in toward the hub.
- Twist the blade to the opposite angle.
- Let the blade spring back out and lock in position.

If a blade won't push and turn, stop! Forcing it can bend the blade or shaft. Get your mechanic to free up the blade.

If you don't want to remove the screen guards to get to the blades, you can make this tool from ¾-in pipe.



To use it, line a blade up with the access hole. Fit the tool over the end of the blade and push in to turn the blade. Then line up the next blade and repeat the procedure.



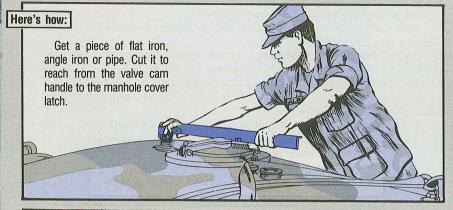


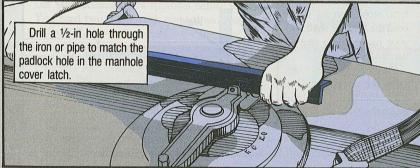
When you're finished, make sure all blades face the same way. Otherwise, you'll cut down air flow thru the radiator. You'll also get vibration that's rough on the fan and bearings. 53

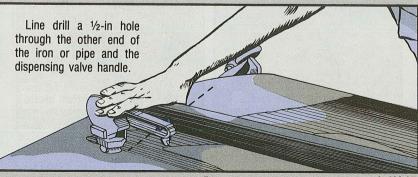
Fight Fuel Filching

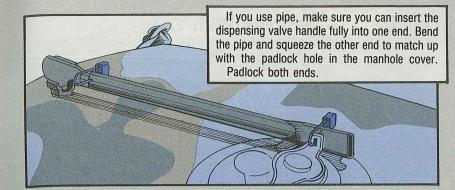
In the dead of the night fuel filchers are using the dispensing valve to drain your tanks dry.

Locking the valve to the manhole cover stops them in their tracks.









Air Conditioner...

Get the Grommets Out!

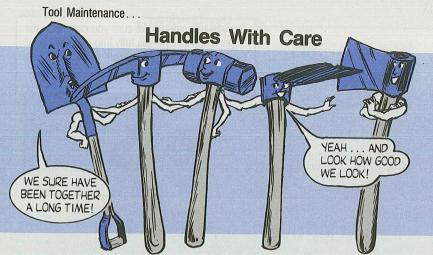
Don't use the heat mode on your horizontal compact air conditioner (9,000, 18,000 and 36,000 BTU) if the heating element still has grommets.

The grommets decompose and give off gases that can make you sick. Take the grommets out and install the bracket modification kit.

HERE'S WHAT YOU NEED:

	BTU	Air Conditioner Characteristics	Support Kit NSN 4520-01-163
	9,000	230V 1Ph 60Hz	4915
All of the second	9,000	115V 1Ph 60Hz	4915
(1)	9,000	208V 3Ph 60Hz	4917
	9,000	208V 3Ph 400Hz	4917
	18,000	230V 1Ph 60Hz	4916
US ARM	18,000	208V 3Ph 60Hz	4916
HALF-MAST VUS ART	18,000	208V 3Ph 400Hz	4916
	36,000	208V 3Ph 60Hz	4918
	36,000	208V 3Ph 400Hz	4918

YOU'LL FIND THIS INFO IN TROSCOM MSG AMSTR-MCFG
182000Z SEP 86.
SEE YOUR TROSCOM LAR
FOR THE MESSAGE



Wood handles on pioneer tools and engineer-type tools need to be painted or rubbed with linseed oil.

• If the handle is on a tool stored outside, paint it to protect against weather. Follow local SOP for paint color—usually the same as the vehicle's basic color, not in a camouflage pattern.





• If the handle is on a tool kept inside, rub it with linseed oil. This prevents drying, cracking and splintering. Get a gallon of linseed oil with NSN 8010-00-152-3245.

When a painted handle shows exposed wood, strip it and repaint it.

When an unpainted handle starts to feel dry, give it another rub with linseed oil.

MAY 87



it up

to dry!

You can get sick as a dog if lyster bags are not cleaned and stored right.

A wet bag tossed in a corner is a haven for bacteria!

So before you store, scrub the inside of the bag with a chlorine solution. Use a 6-oz jar of calcium hypocholorite, NSN 6810-00-255-0471, stirred into one gallon of water.

Rinse the bag several times with clean, fresh water to get rid of all the cleaning solution.

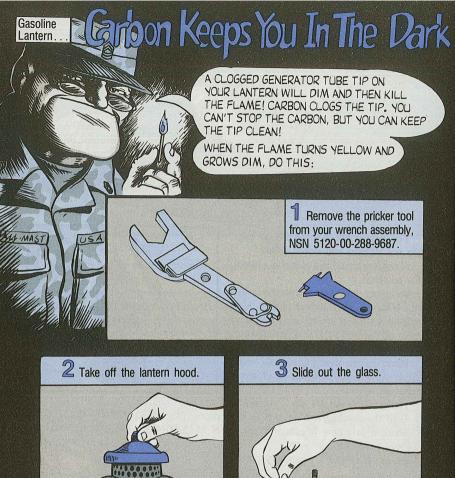
Hang it up until it's dry...completely dry!

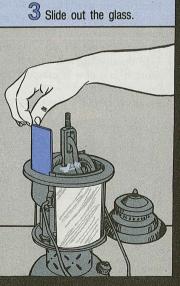
Fold the dry bag and wrap it in kraft paper, NSN 8135-00-160-7752.

Store it in a new fiberboard box. NSN 8115-00-428-4124 gets ten boxes, $24 \times 24 \times 10$ inches.

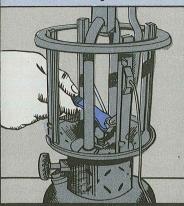
Store the box in a clean, dry place.



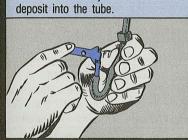




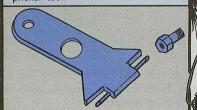
Use the wrench to unscrew the nut that holds the generator tube.



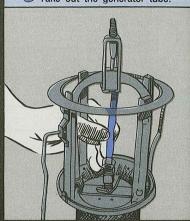
6 Don't clean the tip while it's still on the tube. You'll just ram the carbon



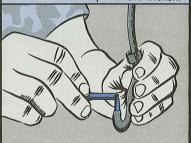
Clean the hole in the tip with the pricker tool.



5 Take out the generator tube.



Remove the tip with the wrench.



9 Reassemble the lantern.





2520-01-123-2649 FILTER FLUID PRESSU Z K22NL A
Z B22WP A
D GS1TA A
Z B22WP Q
Z K22JE A 5360-01-123-2651 6625-01-123-2652 SPRING, HELICAL, TORS PANEL, TEST, ELECTRIC 3010-01-123-2654 Remember, though, repair parts do not show an EIC on the AMDF. This is because one part may fit several end items. It will be up to you PLL types to

get the correct EIC for the end item that's being repaired. If the end item doesn't have an EIC, leave card columns 54-56 blank on the supply request.



HEADSPACING AND TIMING WILL KEEP YOUR M2 FIRING!



Wrench NSN Wrong

The stock number on Page 35 of PS 410 for the front wheel bearing nut wrench for 1985 and later model M1009 CUCV's is wrong. Use NSN 5120-01-219-6753 instead

M1009 NSN Update

NSN 2530-01-166-3033 for the M1009 brake shoes on Page 65 of PS 408 is only for the rear brakes. Normally, brake "shoes" are used on drum brakes and "pads" are used on disc brakes. The CUCV has front disc and rear drum brakes, but TM 9-2320-289-20P refers to "shoes" for both.

Mud Flap Holders NSN's

No luck finding mud flap holders for your M915. M915A1. M916 and M920 trucks? Use NSN 2510-01-115-2273 for the lefthand side and 2510-01-164-1872 for the right. Make a note of these NSN's until they appear in the TM's.

M88A1 Coupling Change

Use NSN 4730-00-905-6355 to get the quick disconnect coupling half, Item 27 on Page 43 of C4, TM 9-2350-256-20P. The number shown in the TM has been discontinued.

Aviation QDR/EIR Exhibits

Better guidance for handling QDR/EIR exhibits is being added to DA Pam 738-751. But if you need help now, see your local Logistic Assistance Representative, He's authorized by AVSCOM Msg AMSAV-QF 051750Z Dec 86 to make on-the-spot decisions to help streamline QDR/EIR shipping and tracking process.

Chinook Chafing Fix

Do your D-model Chinook's forward landing gear access doors chafe against the mating surfaces of the main and forward auxiliary fuel pods? Solve the problem by applying 1/2-in wide anti-chafing tape, NSN 7510-01-221-3335, along the edges of the landing gear doors. See Maintenance Information Message CH-47-86-MEM-03 for instructions on installing the tape.

Get Clip for Bag

Need keepers to hook your AN/PRC-77 radio set's CW-503 cotton duck bag to a web belt or harness? Use NSN 5340-00-753-5580 to order a keeper. It's authorized by Appendix A of CTA 50-970.

M416A1 NSN Change

NSN 2350-01-131-7527 gets a cap for the hydraulic master cylinder on the M416A1 trailer. The NSN listed in TM 9-2330-251-14&P is wrong. It gets a cap that's too small.

