TM 9-2320-242-20-1 T.O. 36A12-1A-2052-1-1

TECHNICAL MANUAL VOLUME 1 OF 3

SCHEDULED MAINTENANCE

ORGANIZATIONAL LEVEL

TRUCK, CARGO:

1-1/4-TON, 6x6, M561 (NSN 2320-00-873-5407)

TRUCK, AMBULANCE:

1-1/4-TON, 6x6, M792 (NSN 2310-00-832-9907)

Chapter 1
Preventive
Maintenance

Chapter 2
Checkout,
Alinement, and
Adjustment

Chapter 3 Lubrication

Chapter 4
Scheduled
Maintenance of
Material Used
in Conjunction
with Major
Items

Appendix A References

Appendix B
Maintenance
Allocation Chart

NOTE:

THE STYLE OF THIS TM IS
EXPERIMENTAL. IT IS BEING TRIED
BY THE ARMY ONLY ON
A LIMITED BASIS

DEPARTMENTS OF THE ARMY AND THE AIR FORCE
NOVEMBER 1980



WARNING

EXHAUST GASES CAN BE DEADLY

Exposure to exhaust gases produces symptoms of headache, dizziness, loss of muscular control, apparent drowsiness, and coma. Permanent brain damage or death can result from severe exposure.

Carbon monoxide occurs in the exhaust fumes of fuel burning heaters and internal combustion engines, and becomes dangerously concentrated under conditions of inadequate ventilation. The following precautions must be observed to insure the safety of personnel whenever fuel burning heater(s) or engine of any vehicle is operated for maintenance purposes or tactical use.

Do not operate heater or engine of vehicle in an enclosed area unless it is adequately ventilated.

Do not idle engine for long periods without maintaining adequate ventilation in personnel compartments.

Do not drive any vehicle with inspection plates or cover plates removed unless necessary for maintenance purposes.

Be alert at all times during vehicle operation for exhaust odors and exposure symptoms. If either are present, immediately ventilate personnel compartments. If symptoms persist, remove affected personnel from vehicle and treat as follows: expose to fresh air; keep warm; do not permit physical exercise; if necessary, administer artificial respiration.

If exposed, seek prompt medical attention for possible delayed onset of acute lung congestion. Administer oxygen if available.

The best defense against exhaust gas poisoning is adequate ventilation.

WARNING

Serious or fatal injury to personnel may result if the following instructions are not complied with.

Use extreme care when removing radiator cap, especially when temperature gage shows above 180°F.

Always wear leather gloves when handling winch cable. Never allow cable to slip through hands. Do not operate winch with less than four turns of cable on drum.

Do not drive truck until the low air pressure warning buzzer is silent and the air pressure gage shows at least 65 PSI. This is the minimum pressure required for safe braking action.

Do not use hand throttle to drive the vehicle.

Do not park truck with front transmission gearshift lever in gear.

If your vehicle class number is greater than the bridge class number, do not cross.

WARNING - Cont

Do not place arms, legs, or objects between tractor and carrier. Any object hanging over this bulkhead may be crushed when truck articulates (turns at the joint).

Before backing up truck, make sure the rear and sides of the truck are clear of personnel and obstructions.

Deep fording may become a swimming operation due to increased water depth. Before fording, make sure that drain plugs are in place and bilge pump is working. Make sure all personnel have on life jackets.

Use extreme care while working in the area of the batteries. Grounding of the positive terminal to the truck frame can cause severe personnel injury and damage to equipment.

When used to carry flammables, explosives, or other hazardous material, equip truck with a fire extinguisher.

Dry cleaning solvent is flammable. Do not use near an open flame. Keep a fire extinguisher nearby when solvent is used. Use only in well-ventilated places. Failure to do this may result in injury to personnel and damage to equipment.

Do not use more than 30 psi of air pressure for drying parts. Eye shields must be worn when using compressed air. Eye injury can occur if eye shields are not used.

Smoking, sparks, open flame and hot or glowing objects are not allowed within 50 feet of work area when working on fuel system. Fuel may explode and cause injury to personnel and damage to equipment.

Do not open filler cap if engine is hot. Pressure will blow out very hot fluid and vapor. Personnel can be badly burned.

Do not spill cleaning compound on skin, clothing or truck paint. Cleaning compound has strong acid in it and will cause serious burns to personnel and damage to equipment.

Use eye shields to protect eyes when working with sealing compound. To prevent injury, do not allow skin or clothing to come in contact with sealing compound.

Be sure engine is cool before working on engine or engine components to avoid injury to personnel.

Do not get electrolyte on personnel or equipment. Personnel may be badly burned, and equipment may be damaged.

Wear rubber gloves and goggles while working with electrolyte to avoid serious injury from battery acid.

Before left or right battery is removed, ground cable to frame of truck must be taken off battery. If this is not done, a dangerous short circuit can result.

Wrap fuel lines in battery area with electrical tape to prevent short circuit. Short circuit can cause injury to personnel.

Do not let tools touch battery and truck. This will cause a direct short, arcing, tool will heat to red hot, and battery may explode. This can cause serious injury to personnel and damage to equipment.

WARNING - Cont

Be sure that truck is jacked and supported only at jacking or support points. Use of any other points may cause damage to truck or it may slip or fall off the jacks, causing injury to personnel.

Never work under truck with only a jack supporting truck. Weight of truck must be supported by safety jacks or support stands with capacity for weight of truck.

Springs under tension must be handled carefully or injury to personnel may result.



TECHNICAL MANUAL NO. 9-2320-242-20-1 TECHNICAL ORDER NO. 36A12-1A-2052-1-1 DEPARTMENTS OF THE ARMY
AND
THE AIR FORCE
Washington, DC, 3 November 1980

TECHNICAL MANUAL VOLUME 1 OF 3

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MB, Warren, Michigan 48090. A reply will be furnished to you.

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^{*}This manual, together with TM 9-2320-242-20-2-1, 3 November 1980; TM 9-2320-242-20-2-2, 3 November 1980; TM 9-2320-242-20-3-1, 3 November 1980; and TM 9-2320-242-20-3-2, 3 November 1980 supersedes TM 9-2320-242-20, 24 September 1976.

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CHAPTER 1

PREVENTIVE MAINTENANCE

NOTE

All references to TM 9-2320-242-10 in this publication apply to the series.

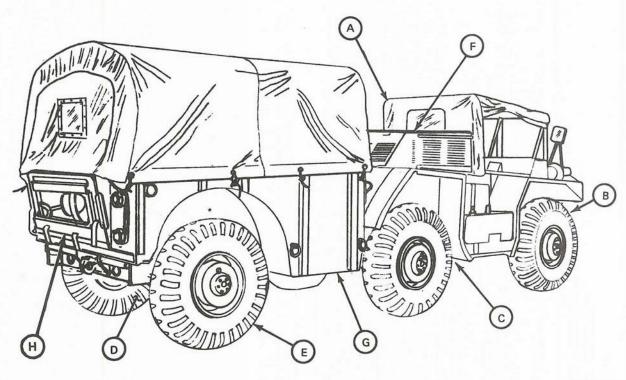
- 1-1. GENERAL. Preventive maintenance checks and services (PMCS) are done to find and to fix problems before they can cause major damage to the vehicle. These checks and services are done by organizational maintenance personnel every six months or 6,000 miles, whichever comes first. To save time and make sure that all items are checked, do the PMCS in the order given in the tables. Write down any problems on the proper forms. Refer to TM 38-750.
- 1-2. PROCEDURES FOR SERVICES AND INSPECTIONS. The following general procedures are for organizational maintenance PMCS and for all inspections. They are just as important as the specific procedures. In addition to the specific procedures, any of these general procedures that apply to PMCS items will be done automatically.
- a. Check to see if items are in good condition, properly assembled or stowed, not leaking, loose, or excessively worn, and properly lubricated.
- (1) Checking that items are in good condition is usually a visual check to see if the items are safe and usable. Good condition means not bent or twisted, not chafed or burred, not broken or cracked, not bare or frayed, not dented or collapsed, not torn or cut, not rusted or rotted, and not leaking.
- (2) Checking that items are properly assembled or stowed usually is a visual inspection also. See if the items are in normal positions on the vehicle, and if all parts are present.
- (3) Excessively worn means worn beyond usable limits and likely to fail before the next scheduled inspection. This includes too much play (lash or lost motion) in linkages and mating parts. This also includes unreadable markings, data and caution plates, and other printed matter.
- b. The specific PMCS procedures do not say "adjust if necessary" or "replace if necessary." It is understood that whenever inspection shows the need for adjustment, repairs, or replacement that work will be done.
- c. Any special cleaning instructions for certain items are in the maintenance sections for those items. General cleaning instructions are as follows:

WARNING

Dry cleaning solvent is flammable. Do not use near an open flame. Keep a fire extinguisher nearby when solvent is used. Use only in well-ventilated places. Failure to do this may result in injury to personnel and damage to equipment.

- (1) Use dry cleaning solvent, type II (SD-2), Fed. Spec P-D-680 to clean or wash grease or oil from all metal parts.
- (2) A solution of one part grease cleaning compound to four parts of dry cleaning solvent may be used for cleaning grease and oil from engine blocks, engine compartments, and other parts.

- (3) After cleaning, rinse and dry parts well. Coat all polished metal surfaces with a light grade of oil to stop rust.
- (4) When putting in new parts, take off any rust-preventive compound or protective grease. For those parts needing lubrication, refer to Lubrication Order LO 9-2320-242-12.
- d. To stop mildew from forming, shake out and air canvas covers often for several hours at a time. Have any loose grommets or rips in the fabric fixed right away. Failure to do so may cause minor damage to become major damage. Clean mildew from canvas with a dry brush. If water is needed to wash off dirt, it must not be used until all mildew has been brushed off. If mildew is present, carefully check the canvas for weak spots. If weak spots are found, the canvas is probably not worth retreatment. Otherwise, have the canvas retreated. Clean off oil and grease with issue soap and warm water. Rinse well with clean water and dry.
- e. Steel nameplates, caution plates, and instruction plates may rust rapidly. If rusty, clean plates well and coat heavily with clear lacquer. Refer to TM 43-0139.
 - f. General precautions for cleaning are in the maintenance sections.
- g. The vehicle operator usually helps organizational maintenance personnel in doing the PMCS. The operator should make sure the vehicle is fairly clean. However, the vehicle should not be washed right before inspection. Certain problems, such as loose parts or oil leaks may not show up after a wash.
- h. The only organizational maintenance services are those general procedures listed below, unless approval is given for other services.
- (1) Adjust. Make all adjustments by following the procedures given in this manual or in bulletins.
- (2) Clean. Clean items by following the general cleaning procedures given in para c., above.
- (3) <u>Service</u>. Normally, service includes filling the battery with water, draining and refilling items with oil, and changing or cleaning the oil filter, air cleaner or cartridges.
- (4) <u>Tighten</u>. Tighten items with enough force on the wrench handle to tighten according to good mechanical practice. Do not over tighten; this may strip threads or cause distortion. Tightening includes using lockwashers, locknuts, lock wire, or cotter pins when needed. Use a torque wrench when the procedure calls for one.
- (5) Modification work order application. Write all needed modification work orders (MWO) for the vehicle on DA Form 2408-5.
- i. When it is hard to do all of the PMCS procedures at one time, they can sometimes be done in parts. If possible, plan to do all the procedures within one week. All available time at halts and in bivouac areas must be used, if needed, to make sure that the PMCS is done.
- 1-3. PMCS PROCEDURES. Figure 1-1 gives location of components and table 1-1 gives the PMCS procedures for the M561 Cargo Truck and M792 Ambulance Truck. The PMCS table is made up of the following columns:
- a. <u>Item No. Column</u>. This column gives the order in which the checks and services are to be done. Use these item numbers when filling out equipment inspection and maintenance forms.
- b. Item To Be Inspected Column. This column names the item or system to be checked or serviced.
- c. <u>Blank Column</u>. You should ignore this column because it is not required for Organizational PMCS. Contents were deleted, at the time of printing, due to policy changes.



TA 045695

- A. Controls
- B. Front axle assembly
 Front differential
 Winch kit
- C. Transmission
 Transfer
 Propeller shafts
 Center axle assembly
 Center differential
- D. Rear axle assembly
 Rear differential

- E. Wheels and tires
- F. Air cleaner assembly
 Oil filter
 Fuel filters and fuel lines
 Cold start system
 Heater fuel filters
- G. Body and frame
- H. Carrier tailgate

Figure 1-1. Preventive Maintenance Locators.

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
		BEFORE ROAD TEST	
1		Check that all before operation checks listed in TM 9-2320-242-10 have been done.	
2	Lubrication	Refer to Lubrication Order LO 9-2320-242-12 for lubrication of truck.	
		DURING ROAD TEST	
3	THROTTLE control	1. Check travel and free movement of THROTTLE control (1) by watching accelerator pedal (2). When THROTTLE control is pulled all the way out, accelerator pedal will be down against stop screw. Check that THROTTLE control does not bind or stick in any position.	
		TA 080545	
		2. Start engine. Refer to TM 9-2320-242-10.	
		3. Check that THROTTLE control (1) has full travel from open position to closed position. Check that THROTTLE control does not bind or stick in any position.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
4	Clutch	1. Push down on clutch pedal (1) and listen for a bad clutch release bearing or other noises.	
		1 3 4 TA 080546	
5	Brake system	 Check that free travel of clutch pedal (1) is about 3/4 to 1-1/8-inches. Put vehicle in motion and check that clutch does not slip, grab, or chatter. Raise vehicle speed until speedometer (2) reads about 40 mph and brake to stop. Check that vehicle stops smoothly without sidepull, chatter, or unusual noises. Check that brake pedal (3) does not bind. 	
		3. Check that brake pedal (3) stops about half-way above floor.	
6	Steering system	1. Check that free play in steering wheel (4) is not more than one inch.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
6 (cont)		2. Check that there is no shimmy, wander, or pull to one side.	
		3. Turn steering wheel (4) through full range and check that there is no binding in steering system.	
7	Transmission and transfer	1. Shift TRANSMISSION selector lever (1), TRANSFER selector lever (2), and TWO or SIX WHEEL DRIVE selector lever (3) into all positions. Check that there is no unusual stiffness when shifting and no slipping out of gear.	
		TA 080547	
		2. Be alert for unusual noises or vibrations in power train.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
8	Engine power	 Check that truck has normal power and acceleration in all speeds. Be alert for unusual engine noises.

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
9	Differentials	AFTER ROAD TEST 1. Stop engine. Refer to TM 9-2320-242-10. WARNING
		Use care when touching differentials (1, 2, and 3) right after road test. They may be very hot and cause severe burns to personnel.
		2. Right after road test, carefully feel differentials (1, 2, and 3). If differentials are very hot they may be bad or not properly lubricated.
		TA 080548

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
10	Transmission and transfer	1. Remove console assembly. Refer to Vol 3, chapter 17, para 17-15.
		WARNING Use care when touching transmission (1) right after road test. It may be
		very hot and cause severe burns to personnel.
		2. Carefully feel transmission (1). If it is hot it may be bad or not properly lubricated.
		(1) (5) (4) TA 080549

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
10 (cont)		NOTE It is normal for transfer (2) to be hot after vehicle has been run for a while. If it is properly lubricated and did not make noise it is good.	
		 Check that transmission (1) and transfer (2) are not leaking. Check that transmission-transfer coupling (3) is not damaged. Shake coupling from side to side and up and down. There should be no noise or looseness in coupling universal joints (4 and 5). 	
11	Tractor propeller shaft	1. Check that tractor propeller shaft (1) is not damaged. Tractor propeller shaft mounts to transfer (2) and center differential (3) below transmission (4).	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
11 (cont)			
		2. Shake tractor propeller shaft (1) from side to side and up and down. There should be no noise or looseness in tractor propeller shaft	
		universal joints (5 and 6). 3. Replace console assembly. Refer to Vol 3, chapter 17, para 17-15.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
12	Carrier coupling	Check that carrier coupling (1) is not damaged. Shake coupling from side to side and up and down. There should be no noise or looseness in coupling universal joints (2 and 3).	
		TA 080551	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
13	Carrier propeller shaft	1. Check that carrier propeller shaft (1) is not damaged. Shake propeller shaft from side to side and up and down. There should be no noise or looseness in universal joints (2 and 3).	
		TA 080552	
		2. Check that carrier propeller shaft center bearing (4) is not worn. Shake propeller shaft (1) near center bearing. There should be no noise and very little looseness in center bearing.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
14	Front and rear axle and suspension assemblies	Check that drive shaft (1) is not damaged, and that drive shaft universal joints are not worn or loose.	
		(4) (3) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
14 (cont)		 Check that spring (2) and resilient mount jounce bumper (3) are not loose or damaged. Check that upper suspension arm (4) and lower suspension arm (5) are not loose or damaged. Check that shock absorber (6) is not leaking, loose, or damaged. 	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
15	Center axle and suspension assem- bly	1. Check that drive shaft (1) is not damaged, and that drive shaft universal joints are not worn or loose.	70 No. 10
		5 2 2 4 5 5 TA 045700	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
15 (cont)		2. Check that spring (2), suspension bracket (3), and suspension arms (4) are not loose or damaged.	
		3. Check that shock absorbers (5) are not leaking, loose, or damaged.	
16	Brake system	1. Remove brake drums. Refer to Vol 3, chapter 12, para 12-7.	
		2. Check that brake shoe linings (1 and 2) are not worn down to rivets.	
		3	
		0	
		TA 080553	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
16 (cont)		 Check that hydraulic line (3) and air line (4) are not leaking, loose, or damaged. Replace brake drums. Refer to Vol 3, chapter 12, para 12-7. Adjust brakes. Refer to Vol 3, chapter
17	Wheel and tire assemblies	 12, para 12-5. Check that tire wear is not uneven. If tires show uneven wear check wheel alinement. Refer to Vol 3, chapter 14, para 14-3. Every other semiannual check rotate tires. Change wheel and tire assemblies from side to side and front to rear as shown in following diagram. Refer to TM 9-2320-242-10 for removal and replacement procedures.
		STARTING POINT FRONT TA 045696

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
18	Air cleaner assembly	1. Open engine cover. Refer to TM 9-2320- 242-10.	
		2. Check that air cleaner assembly (1) and vacuator valve (2) are not loose or damaged.	
		TA 080554	

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
19	Oil filter	Check that oil filter (3) is not leaking, loose, or damaged.	
20	Fuel filters and fuel lines	Check that fuel filters (1 and 2) and all fuel lines are not leaking, loose, or damaged. Refer to Vol 2, chapter 14, fig. 14-1 for locations of fuel lines.	
21	Cold start system	1. Check that cold start system tubing (3) and wiring (4) are not loose or damaged.	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
22	Heater fuel filter(s) (M792 personnel heater and winteri- zation kits only)	WARNING To prevent fire or explosion, smoking, flame, sparks, and glowing or hot objects are not allowed near vehicle during maintenance of fuel system components. Failure to do this may cause severe burns to personnel. Clean heater fuel filter(s) as follows:	
		 Put a cup under fuel filter assembly. Unscrew sediment bowl (1) from head (2). 	
		TA 045698	

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
	3. Take out packing (3) and filter element (4). WARNING
	Dry cleaning solvent, SD-2, used to clean parts is potentially dangerous to personnel and property. Do not use near an open flame or excessive heat. Flash point of solvent is 138°F.
	4. Clean filter element (4) with dry cleaning solvent. If filter element (4) can not be properly cleaned, use a new one.
	5. Put filter element (4) in sediment bowl (1), put packing (3) in place, and screw sediment bowl (1) into head (2).
	6. Start engine and heater. Refer to TM 9-2320-242-10.
	7. Check that fuel filter assembly is not leaking.
	8. Shut down heater and engine. Refer to TM 9-2320-242-10.
	9. Empty cup into gasoline can.
	10. Close engine cover. Refer to TM 9-2320-242-10.
	To Be

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary
23 Bo	Body	1. Check that body is not damaged and has no broken welds or beams.
		 Using a wrench, tighten all mounting bolts. Open carrier tailgate (1).
		(2) (1) (1) (1) (1)
		TA 080556
		4. Check that carrier tailgate (1) and seal (2) are not damaged.
		5. Close carrier tailgate (1).
		6. Check all tractor and carrier electrical equipment for proper operation. Refer to TM 9-2320-242-10.
		7. Check that all exposed wiring is not worn, frayed, or otherwise damaged.

Table 1-1. Organizational Preventive Maintenance Checks and Services Semiannual Schedule - Cont

Item No.	Item To Be Inspected	Procedures Check for and Have Repaired, Replaced, Adjusted as Necessary	
24	Winch kit	1. Unwind winch cable (1). Refer to TM 9-2320-242-10.	
		2. Check that winch cable (1) is not kinked and has no broken wires or broken/loose clamps. 3. Wind cable (1) back on drum (2). Refer to	
		TM 9-2320-242-10. 4. Tell direct support maintenance to adjust winch safety brake.	

CHAPTER 2 CHECKOUT, ALINEMENT, AND ADJUSTMENT

2-1. GENERAL. There are no scheduled checkout, alinement, or adjustment procedures to be done at organizational level of maintenance other than those in the PMCS table.

CHAPTER 3 LUBRICATION

- 3-1. GENERAL. Refer to Lubrication Order LO 9-2320-242-12 for lubrication of the truck.
- 3-2. SPECIAL INSTRUCTIONS. There are no special lubrication instructions for trucks operating under unusual conditions other than those given in LO 9-2320-242-12.

CHAPTER 4

SCHEDULED MAINTENANCE OF MATERIAL USED IN CONJUNCTION WITH MAJOR ITEMS

- 4-1. GENERAL. These preventive maintenance checks and services (PMCS) cover the special purpose kits supplied as part of the truck. The special purpose kits include the winch kit, slave receptacle kit. surfing kit, winterization kit (-25°), arctic kit, and arctic closure winterization kit.
- 4-2. PMCS PROCEDURES. Refer to TM 9-2320-242-10 for preventive maintenance checks and services for the special purpose kits.



APPENDIX A REFERENCES

A-1. PUBLICATION INDEXES AND GENERAL REFERENCE.

Indexes should be checked often for the latest changes or revisions of references given in this appendix and for new publications on material covered in this technical manual.

a. Military Publications Indexes.

Index of Army Motion Pictures and Related Audio-Visual Aids DA Pam 108-1
Index of Administrative Publications DA Pam 310-1
Index of Blank Forms DA Pam 310-2
Index of Doctrinal Training and Organizational Publications DA Pam 310-3
Military Publications:
Index of Technical Manuals, Technical Bulletins, Supply Bulletins, and Lubrications Orders
Index of Supply Catalogs and Supply Manuals (excluding types 7, 8, and 9)
Index of Modification Work Orders DA Pam 310-7
Common Tools and Equipment Supply Manuals DA Supply Manuals SC 4910-95-CL-A01, A02, A50, A63, A67, A68, A72, A73, and A74.

b. General Reference.

Authorized	A	bbr	ev	ia	ti	on	S	an	d	В	re	٧i	ty	1						
Codes .						٠						•			•	•	•		AR	310-50
Dictionary	of	II.	nit	ed	S	ta	tes	5 /	Αr	·m	v	Т	eı	٠m	S				AR	310-25

SC 4910-95-CL-A31

A-2. FORMS.

T blank	he following forms are for this materiel (refer to DA parts forms and to TM 38-750 for explanation of their use)	pamphlet 310-2 for index of
	Recommended Changes to Publications	DA Form 2028
	Maintenance Request	DA Form 2407
	Maintenance Request - Continuation Sheet	DA Form 2407-1
	Equipment Log Assembly (Records)	DA Form 2408
	Processing and Deprocessing Records for Shipment, Storage, and Issue of Vehicles and Spare Engines	DD Form 1397
A-3.	OTHER PUBLICATIONS.	
a.	Vehicle.	
	Lubrication Order	LO 9-2320-242-12
	Operator's Manual	TM 9-2320-242-10
	Direct Support and General Support	
	Maintenance Manual	TM 9-2320-242-34
	Organizational Maintenance Repair Parts and Special Tool List	TM 9-2320-242-20P
	Direct Support and General Support Maintenance Repair Parts and Special Tool List	TM 9-2320-242-34P
		111 0 2020 242 341
b.	General.	
	Color, Marking and Camouflage Painting of Military Vehicles, Construction Equipment, and Materials Handling Equipment	TB 43-0209
	Chemical, Biological, and Radiological	
	(CBR) Decontamination	TM 3-220
	Chemical, Biological, Radiological, and Nuclear Defense	FM 21-40
	Rigging	TM 5-725
	Accident Reporting and Records	AR 385-40
	Basic Cold Weather Manual	FM 31-70
	Cooling System: Tactical Vehicles	TM 750-254
	Manual for the Wheeled Vehicle Driver	
	Army Motor Transport Units and	FM 21-305
	Operations · · · · · · · · · · · · · · · · · · ·	FM 55-30

Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Material and Related Materials Including		
Chemicals	TM	9-247
Painting Instructions for Field Use	TM	43-0139
Rustproofing	TB	43-0213



APPENDIX B MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

- a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.
- b. The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.
- c. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.

B-2. MAINTENANCE FUNCTIONS.

- a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination.
- b. Test. To verify serviceability and detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.
- d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.
- e. Aline. To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- g. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

- i. Repair. The application of maintenance services or other maintenance actions to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.
- j. Overhaul. That maintenance effort (services/actions) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i.e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles), etc.) considered in classifying Army equipments/components.

B-3. COLUMN ENTRIES USED IN THE MAC.

- a. Column 1, Group Number, Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.
- b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see para B-2.)
- d. Column 4, Maintenance Level. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform the maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate "work time" figures will be shown for each level. The number of manhours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

C							 		 Operator or crew
0							 , ,		 Organization maintenance
F							 		 Direct support maintenance
H									 General support maintenance
									Depot maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

¹Services-inspect, test, service, adjust, aline, calibrate, or replace.

²Action-welding, grinding, riveting, straightening, facing, remachining, or resurfacing.

- B-4. COLUMN ENTRIES USED IN TOOL AND TEST EQUIPMENT REQUIREMENTS.
- a. Column 1, Tool or Test Equipment Reference Code. The tool and test equipment reference code correlates with a maintenance function on the identified end item or component.
- b. Column 2, Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.
 - c. Column 3, Nomenclature. Name or identification of the tool or test equipment.
- d. Column 4, National/NATO Stock Number. The National or NATO stock number of the tool or test equipment.
 - e. Column 5, Tool Number. The manufacturer's part number.

Section II. MAINTENANCE ALLOCATION CHART

(1) Group	(2) Component/Assembly	(3) Maintenance		Maint	(4)	e Level		(5) Tools and	(6) Remarks
Number		Function	С	0	F	. н	D	Equipment	Nemark:
01	Engine						-		
0100	Power Plant	Service	*						
		Replace			2.4			12	
	Engine Assembly	Test			4.6			32,27,28	
		Service	*					02,27,20	100
		Replace			8.0				
		Repair			*			13,14,20,22,	
		Overhaul				43.0		23,13,14,15,	
		1735000000000000000000000000000000000000						16,17,18,19,	
								20,21,22,23,	
								29,30,31	
	Mounts, Engine	Replace			3.0				
0101	Block, Crankcase	Test				*			
		Replace			*				
		Repair			*				
		Overhaul			24.0				
	Cylinder Head	Test				*			
		Replace			3.5				_
		Repair			*			14,20,22,23,	
					8.0			25,26	
		Overhaul				9.5		14,20,22,23,	
			- 8					25,26,49	
	Cylinder Sleeve	Inspect				*			
0100		Replace				10.1		45	
0102	Crankshaft and Bearings	Inspect				*			
	0 11 0000	Replace				8.9		16	
	Crankshaft Oil Seal	Replace			4.6			16	
0103	Drive Pulley	Replace			1.0		- 1		
0103	Flywheel Assembly	Replace	-		4.4			19	
	Flywheel Housing	Repair				*			
	Fly wheel Housing	Replace Repair			4.4			21	
0104	Pistons, Connecting Rods				1.0	*		3.0	
0104	1 istons, connecting Rods	Inspect Replace				522		20	
		Repair				5.2		39	
	Rings and Bearings	Inspect				*			
	Tango and Dourings	Replace				5.2		39	
0105	Valves, Intake & Exhaust	Inspect				*		39	
		Adjust				0.5			
		Replace				2.5			
		Repair				2.5			
	Valve Guide	Inspect				*			
		Replace				5.3		14,25	
	Shaft, Rocker Arm	Inspect				*		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Replace				1.8			
	Rocker Arm	Inspect				*			
		Replace				1.8			
			-						
See foots	ote at end of chart								

Group	Component/Assembly	(3) Maintenance		Mainte	(4) enance	Level		(5) Tools and	(6) Remark
Number		Function	С	0	F	н	D	Equipment	
	Seat, Valve	Inspect			aje				
	boat, varo	Replace			3.6			20,22	
		Repair			4.0			20,22	
1		Repair			*				
	Push Rod	Inspect			4.1				
	i usii Rou	Replace			7.1	*		15	
	Timing Gear	Inspect				7.4		13	
	Tilling Gear	Replace				*		38	
		Repair				*	- 1	36	
1	Comphaft & Pagrings			0.1		10.0	3		
	Camshaft & Bearings	Inspect				*	-1 1	44	
	S-1 C	Replace			*	"		44	
	Seal, Camshaft	Replace		*	, T				
1	Intake Parts	Service		*					
	Gasket, Rocker Arm	Inspect		*			-		
	Cover	Replace							
0106	Pump, Oil	Replace			4.9				
1		Repair			2.2			24	
	Oil Cooler, Engine	Replace		2.2	5339070.7				
- 1		Repair		1	2.5				
1	Oil Filter, Engine	Service		*					
1		Replace		0.5					
1		Repair		1.4					
	Pan, Engine Oil	Replace		*				8	
		Repair		*					
0108	Exhaust Manifold	Inspect		坤					
		Replace		0.2					
		Repair			*				
02	Clutch				100				
0200	Clutch Assembly	Inspect			*				
		Replace			3.2				
0202	Pedal, Controls and Linkage	Adjust		0.2					
		Replace		0.6					
		Repair		0.9	355				
	Bearing, Clutch Release	Inspect			*				
		Replace			2.3				
	Fork, Release Bearing	Inspect		201	*				
		Replace			2.0				
03	Fuel System								
0301	Fuel Injector	Test			*				
		Replace			*				
		Repair				*		32,37,41,42,	
								43,46,48,50,	
								51,52,55	
	Lines and Fittings	Replace			*			18	
	Lever, Rack Control	Adjust			*				
		Replace			*				

(1) Group	(2) Component/Assembly	(3) Maintenance		Mainte	(4) enance	e Leve	ı	(5) Tools and	(6) Remarks
Number		Function	C	0	F	н	D	Equipment	
0302	Pump, Fuel	Test			*			a utili di	
		Replace		0.4					1 10
	Pump, Fuel Carrier	Test		*					
	Heater (M792)	Replace		0.2	E.			100	
0304	Air Cleaner	Replace		0.4				Carrie and	
	Element, Air Cleaner	Service	*						
		Replace		0.1				479.559	
	Hose Assembly	Replace		0.2				and the second	
0305	Blower Air Intake	Inspect			*			V 2.78	
		Test			*			the region of	
		Replace			*				4 3
		Repair				*		40	
	Tube, Air Box Drain	Service		*					- 1
		Replace		0.2				_ 0.00 pt to \$100	
0306	Tank, Fuel	Service	*						
		Replace		0.7					
		Repair			1.0				3.7
	Breather, Vent	Replace		*				1429	
	Fuel Filler Cap	Replace		0.1				1000 1000	
	Lines and Fittings	Replace		*				all the parties of the	
0308	Governor, Engine Speed	Test			*				
		Adjust			*			0.943	
		Replace			*	, 100	1	1 A 1 Sept 162 - 1	
		Repair	,1100			*	38		
	Controls and Linkage	Adjust			*			and the second party of	
		Replace			*			2 4 4 4 4 4	1 11
0309	Filter Fuel Primary	Service	*					2,4-1,-1	
		Replace		0.3		11			
		Repair		0.1					
	Filter, Fuel, Secondary	Service	*						
		Replace		0.2				Real Property and the	
- 1		Repair		0.3					
	Filter, Fuel Carrier	Service	*						
	Heater (M792)	Replace		0.2			10.73	The Total Control	
0311	Engine Coldstart System	Test			*				2
		Replace			*				
		Repair			*				
0312	Accelerator pedal and linkage	Adjust		0.1				7	
		Replace		0.5				- 1	7 1 14
		Repair		0.3					
	Control, Throttle	Adjust		0.1					
		Replace		0.4			5 5		
	Cable, Engine Cutoff	Adjust		*			10.70	100	
		Replace		*				- ,	
					-				

(1) Group	(2) Component/Assembly	(3) Maintenance	- 1	Mainte	(4) nance	Level		(5) Tools and	(6) Remarks
Number		Function	С	0	F	н	D	Equipment	
04	Exhaust System							1	
0401	Muffler	Inspect	*						
		Replace		0.2					
	Exhaust Manifold								
	(See Group 0108)				- 1				
- 1	Exhaust Header Pipe	Replace		0.2					
	Exhaust Pipe	Replace		0.2	=				
- 1	Tailpipe, Inner & Outer	Replace		*	.				
05	Cooling System	1							
0501	Radiator	Test			0.4				
		Service	*						
1		Replace		1.4		3			
		Repair			0.7				
	Surge Tank	Test			0.3				
- 1		Service	*						
		Replace		0.7	- 1				
		Repair	T. TEMP		0.4				
	Radiator Mount	Replace		1.4					
	Support Brace	Replace		0.4					
0502	Shroud, Radiator	Replace		0.6					
		Repair			0.5				
0503	Thermostat	Replace		0.3					
	Thermostat Housing Gasket	Replace	100	0.7		3 1			
	Thermostat Housing	Replace		0.5					
	Hoses and Clamps	Replace		0.3					
0504	Water Pump	Replace			*				
	Pulley	1		- 1					
0505	Belts, Fan Drive, Cooling	Inspect	*						
	,	Adjust		0.1					
		Replace		0.3					
	Pulley and Hub, Tensioner	Replace	7474	0.6					
	Idler Pulley	Replace	110	0.3		- 3	1		
06	Electrical System		2110						
0601	Alternator (60 Amp)	Test		*					
	•	Replace	1	0.6					
		Repair	1		2.5				
	Pulley Alternator	Replace		0.2					
	Mounting Bracket	Replace	-10	0.3					1
0603	Starting Motor	Test		*					
		Replace		0.7					
3 -		Repair			*				
0607	Instrument Panel Lights								
	Switches and Gages	Inspect	*	1 2 5					
		Replace		*	1				
		Repair		*					
	Master Switch	Inspect	*						
		Replace		0.2					
				118					
		4							1

(1) Group Number	(2) Component/Assembly	(3) Maintenance		Mainte	(4) enance	e Leve	ı	(5) Tools and	(6) Remarks
Number	Marin Service Control of the Control	Function	С	0	F	н	D	Equipment	
	High Beam indicator Light	Inspect	*					Les 1.00.	
		Replace	110	0.1					
	Instrument Panel light	Inspect	*	"					
		Replace		0.1			U		
- 1	Stoplight Indicator light	Inspect	aje	0.1				on with T	
		Replace		0.2					
	Engine Start Switch	Inspect	*					e Total	
		Replace		0.1		271	3.0		
	Windshield Wiper Switch	Inspect	*	"					
		Replace		0.1	a 1 }				7.
	Bilge Pump Switch	Inspect	*						
		Replace	3	0.1					
	Fuel Lever Indicator Gage	Replace		0.2					
	Battery Generator Indicator Gage	Inspect	*	0.2					
		Replace		0.2					
	Oil Pressure Gage	Inspect	*	0.2					
		Replace		0.2					
	Coolant Temperature	Inspect	*	0.2					
- 1	Gage	Replace		0.3					
	Convenience Receptacle							first mass	
	Control Box	Replace		0.2					
	Heater Control Box	Replace		0.2					
0608	Directional Signal Relay	Replace		0.3					
		Repair			0.2				
	Control Assembly Directional							A 18 (1971)	
	Signal	Replace		0.1					
		Repair			*				
	Switch, Stoplight	Replace		0.2					
	Mainlight Switch	Inspect	*						
1		Replace		0.2			4		
	Switch, Beam Selector	Inspect	*		- 1	- 0		3. 0.0	
		Replace		0.1				30 30 31	
	Carrier Stop Signal Switch	Replace		0.2					
0609	Light Assembly (Service and								
	Blackout)	Inspect	*						
		Replace		0.2					
		Repair			*				
	Lamp and Lamp Units	Inspect	*				100	44.00T II	
		Replace		aje					
	Turn, Park, Blackout Marker								
	Lamp	Inspect	*						
		Replace		0.1					
	Headlight Lamp	Inspect	*						
		Replace		0.1					
	Blackout headlight	Inspect	*					- Andria I	
	Lamp	Replace		0.2					

(1) Group	(2) Component/Assembly	(3) Maintenance		Mainte	(4) enance	Leve		(5) Tools and	(6) Remarks
Number		Function	C	0	F	н	D	Equipment	
	Carrier, Overhead light (M792)	Inspect	*						
	, , ,	Replace		0.2					100
	Carrier Overhead Light Lamp								
	(M792)	Inspect	*						
(400,000,000		Replace		0.1					
0619	Transmitter	Inspect	*						
		Test		*					
	0.1	Replace		*					
	Coolant Temperature Sending	m .		00					
	Unit	Test		0.2					
	Engine oil pressure	Replace		0.3					
	Sending Unit	Test		0.2					
	Sending Out	Replace	W 7	0.2					
	Fuel Level Sending Unit	Test		0.2					
	- uu 20 . 01 20 . uu . g	Replace		0.3	11.00				
0611	Horn Assembly	Inspect	*						
		Adjust		0.1					
		Replace		0.1					
- 1	Switch	Replace		0.2					
		Repair		*	000				
	Button	Replace		0.2					
	Horn Wire	Replace		0.6					
0612	Battery	Inspect	*						
		Test	*	0.4					
		Service	*	0.5					
		Replace	- 105	0.5	1.5				
	Cover and Stron Acov	Repair	145	10:	1.5				
	Cover and Strap Assy	Replace Repair		160					
	Inter Battery Cable	Inspect	*						
	mici pattory capit	Service		*					
		Replace	1010	0.5					
		Repair		*					
	Battery Ground Cable	Inspect	*						
		Service		*					
		Replace		0.5					
		Repair		*	-				
	Battery hold-down bracket	Inspect	*	*					
		Service	da V	1 1					
		Replace Repair	-	0.1					
0613	Harness, Engine Tractor	Replace	the	*	1				
0013	Mariness, Dilgine Tractor	Repair	Des	*					
	Carrier Main Wiring & Harness	Replace	1	0.7					
		Repair	111	0.9		-			
									1 000
					100				
		1			-				

(1) Group	(2) Component/Assembly	(3) Maintenance		Mainte	(4) enance	e Leve		(5) Tools and	(6) Remarks
Number		Function	C	0	F	н	D	Equipment	
	Engine Compartment	Replace		0.8					
	Harness	Repair		0.9					
	Tractor Wiring Harness	Replace		"	4.1				
		Repair		0.9					
1	Tractor, Front Fender Harness	Replace		0.5					
		Repair		0.9					
	Tractor to Carrier Cable	Replace		0.1					
	Carrier, Rear Harness Right								
	or Left	Replace	-	0.5					
		Repair		0.9					
	Carrier Tail Harness	Replace		0.2					
		Repair		0.5	٧				
	Auxiliary Harness	Replace		0.4					
		Repair		0.5	U (
_	Convenience Receptacle Harness								
- 4	(M792)	Replace		0.2					
		Repair		0.5					
	Heater Harness (M792)	Replace		0.2					
		Repair		0.5					
	Carrier overhead Light Harness								
	(M792)	Replace		0.2	141				
	<u></u>	Repair		0.5				- Canala	
07	Transmission								
0700	Transmission Assembly	Inspect	*						
		Service		*					
		Adjust		0.5					
		Replace			2.5				
		Repair			*			. haringer d	
0701	Cl. C. D.	Overhaul				4.5			
0/01	Shafts, Gears, Bearings Seals	Replace				*		275 16 1	
0704		Replace			0.6				
0704	Top Cover, Transmission	Replace			0.6				
- 1	Controls and Links	Repair			1.4				
	Controls and Linkage	Adjust		0.2					
		Replace							
08	Transfer	Repair		0.6				2.00	
0800	Transfer Assembly	Inches	*						
0000	Hanstel Assembly	Inspect Service	*	*					
		Replace		-	4.0				
		Repair			**				
		Overhaul				6.8			
0801	Shafts, Gears, Bearings	Replace				*			
	Seals	Replace	1		0.8				
	Transfer Oil Gage	Replace		0.2	0.0			a little bar it is	
0803	Controls and Linkages	Adjust		0.1					
	241110900	Replace		1.0					
				1.0					
		100							
			- 1						

(1) Group	(2) Component/Assembly	(3) Maintenance		Mainte	(4) nance	Leve	B	(5) Tools and	(6) Remarks
Number		Function	С	0	F	Н	D	Equipment	
0804	Lubrication Pump	Replace			0.5				1 1 1 1
0001	Lines and Fittings	Replace			0.5				
09	Propeller and Propeller Shafts	- Topiaco			0.0		L 10		
0900	Transmission to Transfer	Service		0.2				1 1 1 1 1 1 1 1 1	
0,00	Coupling	Replace		0.5				22.0	
	0007	Repair		*					
	Tractor to Carrier Coupling	Service	1	0.4					
	, ,	Replace		0.4					8 8
		Repair		*					
	Tractor Propeller Shafts and	Service		0.8					
	Joints	Replace			1.2				
		Repair			*				
1	Carrier Propeller and Joints	Service		0.7					
		Replace		1.5		-			
		Repair		*		400			B
	Carrier Center Bearing	Replace		3.0				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10	Front Axle		1	-					
1000	Axle Shaft and U-Joint	Service		*			- 1	la Jan 1 and 1	
		Replace	1111	0.5					
		Repair		0.6			P N		
	Stub Axle Bearing	Replace	- y 11	0.3				1.72	
	Slinger and Seal Stub Axle	Replace	100	0.5					
1002	Differential Assy	Service		*					
		Replace			4.0	1.1.			
		Repair			4.2			33,34	
- 1		Overhaul				11.2		33,34	
	Seals, Propeller Shaft	Replace		× × 1	1.6				
	Seals, Pinion	Replace			1.6				
	Vent Lines & Fittings	Replace			0.9			7 10 11 11	
1004	Suspension Arm and Ball Joints	Aline	-	IV.	1.0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 11/100
		Replace		*				7,8	
		Repair		*					
	Knuckle, Steering	Repair		1.5					
	Upper Suspension Arm	Replace							
	Front and Rear	Service		2.5				_	
		Replace		3.4				7	
	Lower Suspension Arm Front								
	and Rear	Service		1.1		- 1			
11	Described	Replace	101	1.3				8	
11	Rear Axle	Committee		0.0					
1100	Axle Shaft and U-Joint Assy	Service		0.6					
		Replace		0.5					
	Slinger and Seal, Stub Axle	Repair Replace		0.3					
	Stub Axle Bearing	Replace		0.3				-	
	Stud Axie Beating	Replace	100	0.5				-	
									10.00
				4					3 - 1

1102 1104	Differential Assy Rear Seals, Propeller Shaft Seals, Input Yoke Seals, Output Yoke Seals, Shifter Shaft	Service Replace Repair Overhaul Replace Replace	С	0 *	F 1.0	н	D	Equipment	
	Rear Seals, Propeller Shaft Seals, Input Yoke Seals, Output Yoke	Replace Repair Overhaul Replace		*	1.0				
	Rear Seals, Propeller Shaft Seals, Input Yoke Seals, Output Yoke	Replace Repair Overhaul Replace			10				
1104	Seals, Input Yoke Seals, Output Yoke	Repair Overhaul Replace		1					
1104	Seals, Input Yoke Seals, Output Yoke	Overhaul Replace		1	1.0	4.0		33,34	
1104	Seals, Input Yoke Seals, Output Yoke	Replace			+	11.6		33,34	
1104	Seals, Input Yoke Seals, Output Yoke				1.1	1		55,54	
1104	Seals, Output Yoke	T			0.9				
1104		Replace			6.8	1 1			
1104		Replace			6.6	1			
1104	Vent Lines & Fittings	Replace			0.6				
	Suspension Arm and Ball Joints	Aline			1.0				
		Replace		*				7,8	
		Repair		*				.,-	
	Knuckle, Steering	Replace		1.9					
	Carrier Upper Suspension Arm	Replace		2.0		1 1		7	
		Repair		1.2					
	Carrier Lower Suspension Arm	Replace		1.6				8	
		Repair		2.0					
11	Center Axle								
	Axle Shaft and U-Joint	Service		0.6					
		Replace		0.5					
		Repair		aje			- 1		
	Slinger and Seal, Stub Axle	Replace		0.3			- 1		
	Stub Axle Bearing	Replace		0.3					
1102	Differential Assembly Center	Service		*					1 - 10
		Replace			3.0				
		Repair				4.0		33,34	
		Overhaul				11.6		33,34	
	Seals, Propeller Shaft	Replace			1.1		- 1		
	Seals, Input Yoke	Replace			0.9				
	Seals, Output Yoke	Replace			6.8				
1104	Vent Lines & Fittings	Replace			0.4			155 4 4 1	
1104	Suspension Arm and Ball Joints	Replace		1.3				7,8	
10	D 1	Repair		1.0					
12 1201	Brakes	7	*						
1201	Parking Brake Assy	Inspect	*						
		Adjust	*	*		.			
		Replace		*			- 1		
	Parking Brake Shoe	Repair	-						
	Parking Brake Drum	Replace Replace		0.7				_ = KE	
	Parking Brake Lever	Replace		0.6					
	Parking Brake Linkage	Replace		0.0					
1202	Service Brake Assy	Inspect		*					
	2.2.2.2.2.2.2.2.2.3	Service		*				1,2,3	
		Adjust		*				1,2,0	
	1 1111	Replace		*				4,5,10	
		Repair		*			1	53	
	17.31								

(1) Group	(2) Component/Assembly	(3) Maintenance	- 1	Mainte	(4)	Leve	ı	(5) Tools and	(6) Remarks
Number		Function	С	0	F	Н	D	Equipment	
	Air Reservoir, Lines and Fittings	Service		*					
	All Reservoir, Lines and Fittings	Replace		0.7					
- 1		Repair		0.7					
	Shoe, Service Brake	Inspect		0.2					
	Shoe, Service Brake	Adjust		0.4					
		Replace	in Marie	2.1					
1		Repair		0.3					
1204	Cylinder, Master	Inspect	*	0.5					
1204	Cylinder, waster	Service		*				1	
1		Replace		1.2				1	
1		Service		*				2,3	
	Cylinder, Wheel	Replace		3.2				2,0	
1	Hoses, Lines & Fittings	Service		3.2					
	External	Replace		2.0				= -	
	Internal	Replace		2.0	4.5				
1206	Pedal, Service Brake	Replace		0.5	1.0				
13	Wheels	Replace		0.5					
1311	Wheel, Drum Assy	Replace		0.5					
1311	Hub	Replace		1.7					
1	1100	Repair		*					
	Bearings and Caps	Ropan						6	
	Inner and Outer	Inspect		0.3					
	Inner and Outer	Service		0.4					
		Adjust		0.5					
		Replace		2.7					
	Seal, Wiper	Inspect		*					
	Scal, Wiper	Replace		2.3					
	Drum Assembly	Inspect		*					
	Dium Assembly	Replace		0.5					
		Repair		0.5	ajt				
	Wheel with Tire	Replace	*	0.3					
1313	Tire	Inspect	*	0.0					
1313	THE	Service	*						
		Install		0.3					
		Replace		0.3					
		Repair		1.1					
		Rebuild		1			1.5		1
	Valve, Tire	Replace		0.5			1		
	, mito, 1110	Repair		*					
	Valve Core	Replace		0.1					
14	Steering	1							
1401	Column, Steering	Replace		0.9					
	, 200	Repair		1.5					
	Steering Wheel	Aline		*					
		Replace		0.9					
		•						1,17	
	- X		1						
						1	1		

Section II. MAINTENANCE ALLOCATION CHART

Group	(2) Component/Assembly	(3) Maintenance		Maint	(4) enance		(5) Tools and	(6) Remarks	
Number		Function	C	0	F	Н	D	Equipment	
	Tie Rod Assy	Adjust		0.5		-			
		Replace		0.6				6	10 - 3
		Repair		0.5				ŭ	
	Pitman Arm, Front/Rear	Replace		0.4					17
	Idler Arm Assy	Service		*					
		Replace		0.2					
		Repair		0.3					
	Pitman Arm	Replace		0.3				The last of	
	U-Joints	Service		*					
		Replace		*					
		Repair			*				
	Torque Tube and Bearing	Service		*					
	Assembly	Replace		1.0			- 1		
	T. T. D.	Repair		1.3					
1407	Torque Tube Bearing	Replace		0.5					
140/	Steering Gear Box	Service		*					
	Tractor	Adjust			0.4				
		Replace		1.3					
	Steering Gear Box	Repair	- 12		2.8			La Carte Par	
	Carrier	Service		*					
	Carrier	Adjust			0.4		- 1		
		Replace Repair		1.1	2.1				
15	Frame and Towing Attachments	Repair			2.1				
1501	Bumper, Front	Replace		0.2					
		Repair		0.3			- 1		
	Bumper, Rear	Replace		0.1					
1503	Pintle, Towing	Service		*	1				
		Replace		0.3					
	Carlotte and the carlotte	Repair		0.2					
	Yoke, Articulation Joint Assy	Service		*					
		Replace			3.0			11	
-	C1	Repair			0.7			11	
16	Shackle	Replace		0.1					
16 1601	Springs and Shock Absorbers								
1001	Springs, Coil, Tractor and Carrier	D 1						12.24	
1604	Shock Absorbers and Struts	Replace		0.6					
1004	Tractor and Carrier	Replace		0.3					
	Snubbers (Jounce bumper)	Replace		0.2					
18	Body, Cab, Hood and Hull	Replace		0.2				or had a	
1801	Tractor Body, Cab & Hull	Repair			*				
	Fenders	Replace		2.0	100				
	HE TOTAL CONTEST	Repair		2.0	1.0			Transfer of the	
	Brush Guards, Headlight	Replace		0.1	1.0				
		Repair			*			100	
	Brush Guard, Horn	Replace		0.2					
		Repair			*				

Group	(2) Component/Assembly	(3) Maintenance		Mainte	(4) nance	Level		(5) Tools and Equipment	(6) Remarks
Number	and the second	Function	C	0	F	н	D	Equipment	
	Brush Guard, Blackout Headlight	Replace		0.1					
		Repair			*				
	Engine Cover (Hood)	Replace	- 111	0.7			-		
	m	Repair		0.3	1.8				
	Tractor Hull Drain Plugs	Replace Repair	1 1100	0.3	2.0				
	Console	Replace		0.2	2.0				
	Console	Repair		0.2	1.3				
	Windshield Assembly	Inspect	*		1.5				
	Williamora Tablemory	Replace		0.3			- 1		
		Repair			0.7				
7-17	Access Panels, Steering Gear Box	Replace		0.2					
	Access Panel, Master Cylinder	Replace		0.1					
	Access Panels, Tractor Hull	Replace		0.3					
	Mud Guard, Rear/Front Tractor								
	Fender	Replace		0.4					
	Lifting Rings	Replace		0.1					
	Tie-down Rings	Replace		0.1					
	Cargo Tie-downs	Replace		0.2	3				
	Tailgate Bumpers	Replace		0.1					
	Lashing Hooks	Replace		0.1	- 3				
1806	Seats, Tractor	Replace	19714	0.1	1.0				
	0.1: 0.10.10.1	Repair	N	*	1.0				
1	Cushion, Seat and Back Rest	Replace		,	*				
1808	Brackets, Tie Downs, Straps	Repair Inspect	*						
1000	Brackets, Tie Downs, Straps	Replace		*	1 8				
		Repair			*				
	Tie-down Straps	Replace		0.2					
	Liquid Container								
	Hold-down Bracket	Replace		0.2					
	Battery Box	Replace		0.1					
	Battery Box Strap	Replace		0.4					
	Safety Belts and Straps	Replace		0.2					
	Straps and Brackets (M792)	Replace		0.5					
1810	Body/Hull and Frame	Repair			2.0				
	Tailgate	Inspect	*						
		Replace		0.2	0.7				
	Tailanta Casl	Repair		0.4	0.7				
	Tailgate Seal Tailgate Locking Handle	Replace Replace		0.4					
	Tailgate Chain Assy	Replace		0.1					
	Tailgate Step (M792)	Replace		0.5					- 1
	Tailgate Facing	Replace		0.3					
	Seats, Troop	Replace		0.2					
	•	Repair		MINISTERS.	0.8				
			1						

(1) Group	(2) Component/Assembly	(3) Maintenance		Maint	(4) enanc	e Leve		(5) Tools and	(6) Remarks
Number		Function	С	0	F	Н	D	Equipment	
	Troop Seat Latch	Replace		0.1				THE BYFALL	
	Carrier Seat Backs	Replace		0.2					
	Pioneer Tool Straps	Replace		0.2					
22	Accessory Items								
2201	Canopy, Tractor	Inspect	*						
		Replace		0.3					- 1
	D T + 0.C :	Repair			1.0				
	Bows, Tractor & Carrier	Replace		0.5					
	Canopy, Carrier	Repair		00	1.0				
	Canopy, Carrier	Replace		0.8	2.5				
	Canopy, Window (M792)	Repair Replace		0.3	2.5				
	Carrier Curtain, Front/Rear	Replace		0.3					
	carrier curtain, Front/Itear	Repair		0.2	2.0	1.			
	Carrier Guard (M792)	Replace		0.4	2.0	-		THE RESERVE	
	Carrier Head Pad (M792)	Replace		0.2				12.5	
2202	Motor, Windshield Wiper	Replace		0.5					
	Blades and Arm	Inspect	*						
		Replace	an a	0.2				les and the second	
	Mirrors and Reflectors	Replace		0.2					
	Heater Assy (M792)	Test		0.5			- 1		
		Service		0.2				A CONTRACTOR	
		Replace		0.4					
	H D (1/700)	Repair		1.5					
	Heater Ducts (M792)	Replace		0.5					
	Heater Exhaust Pipes	Repair Replace		1.0 0.5					
	Treater Danaust Tipes	Repair		0.6					
- 1	Heater Mount & Shroud	Replace		0.2					
		Repair		0.6	- 1			Lange 1	
2205	Bilge Pump	Inspect	aje						
		Test	*		- 1				
		Service		*					
		Replace		0.7				1.12	
	II	Repair				1.6			
2210	Hose, Bilge Pump Data Plates	Replace		0.3					
33	Special Purpose Kits	Replace		0.3					
3303	Winterization Kit (-25°F)	Towns	*						
5505	winterization Rit (-23 F)	Inspect Test	.		水				
		Service			*				
		Install			201				
- 1		Replace			*				
		Repair			*				

(1) Group	(2) Component/Assembly	(3) Maintenance	ı	Vlainte	(4) nance	Level	2-103	(5) Tools and	(6) Remarks
Number	7 7 7 10 11	Function	C	0	F	н	D	Equipment	
	Personnel Heater (-25°F)	Inspect	*					THE WAT BOX	
	reisonner neater (=23 1)	Test		0.5					
		Service	100	0.5					
		Install			*				
		Replace		*					
		Repair		1.5			-		
	Hoses, Ducting Lines and Tubes	Inspect	*						
		Install			*				
		Replace		*	Carrieda,				
		Repair			1.0				
	Control Box, Heater	Inspect	*						
		Replace		*		-			
		Install		Eu I	*				
		Repair		101	*				
	Pump and Fuel Filter	Test	*	*					
		Service		~	aje				
		Install		*	*				
		Replace	l will		0.4				
	0.1.0	Repair Install	la sali		*				
	Cab Curtains			*					
		Replace Repair			*				
	Arctic Kit (-65°F)	Inspect	*						
	Arctic Rit (=05 T)	Test			*				
		Service			*	1			
		Install	100		*				
		Replace			*				
		Repair		Part I	*				
	Heater Assy, Personnel and/or								
-0.1	Coolant	Inspect	*						
		Install			*				
		Replace		*					
		Repair		*					
	Control Box, Heater	Inspect	*						
		Install			*			THE PERSON	
		Replace		*	*				
		Repair	*		•				
1	Battery Box, Arctic	Inspect Install	"		*				
		The second secon	1		*				
		Replace Repair	118		*				
	Hoses, Ducting Lines and Tubes	Inspect	*					- 10000	
	1103es, Ducting Lines and Tubes	Install	1	gio I	aje			- JN -	
		Replace	198	ajt					
		Repair	112		*				
				1089					

Pump and Fuel Filter	(1) Group	(2) Component/Assembly	(3) Maintenance		Main	(4) tenanc		el	(5) Tools and	(6) Remarks
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Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Reference Code	(2) Maintenance Level	(3) Nomenclature	(4) National/NATO Stock Number	(5) Tool Number
1	O,F,H	ADAPTER: Master cylinder, bleeder	5120-00-563-4928	1166006
2	O,F,H	TUBE: Wheel cylinder, bleeder	4710-00-617-8629	1166007
3	O,F,H	WRENCH: Crowfoot, Wheel Cylinder	5120-00-541-4073	T1270-9
4	O,F,H	DRIVER, SET: Bearing, brake	5120-00-563-4930	1166006
5	O,F,H	DRIVER, SET: Bearing brake, cup and wiper	5120-00-563-4931	1166007
6	O,F,H	REMOVER: Tie rod	5120-00-880-4268	1159517
7	O,F,H	SOCKET: Suspension, upper	5120-00-808-8023	1159527
8	O,F,H	BIT, HEXAGON: Suspension, lower	5120-00-084-0930	1160229
9	O,F,H	GAGE, FUEL PRESSURE	5120-00-498-3862	1166006
10	O,F,H	WRENCH: Wheel bearing nut	5120-00-498-3862	1166006
11	O,F,H	WRENCH: Articulation collar	5120-00-880-4264	1160232
12	F,H	SLING: Engine and Transmission	4910-00-168-2388	1159552
13	F,H	ADAPTER: Cylinder compression tester	4910-00-019-5241	1093445
14	F,H	REPLACER: Valve guide	5120-00-872-6014	J9729
15	F,H	REMOVER: Push rod	5120-00-494-1843	J3092-0
16	F,H	EXPANDER: Oil seal crankshaft	4910-00-591-6640	1094937
17	F,H	GAGE: Fuel injector timing	5220-00-387-9581	1088188
18	F,H	WRENCH, TORQUE: Fuel line nut	5120-00-019-5232	J8932-0
19	F,H	HOOK, LIFTING: Flywheel	4910-00-722-3877	1088188
20	F,H	TOOL KIT: Valve seat inserter	5180-00-591-6631	1094970
21	F,H	ALINING STUDS: Flywheel housing	5120-00-872-6015	J7540
22	F,H	INSTALLER: Valve seat insert	4910-00-603-8925	1094945
23	F,H	COMPRESSOR: Valve spring	5120-00-733-8888	1088188
24	F,H	INSTALLER; Oil pump gear	5120-00-591-6639	1094937
25	F,H	REMOVER: Valve guide	4910-00-591-6632	1094945
26	F,H	REMOVER: Valve spring	5120-00-219-8400	1088189
27	F,H	MANOMETER, U-TUBE: Pressure	6685-00-857-4895	J21478-1
28	F,H	TUBE, RUBBER: Use with manometer	4720-00-271-9839	MILR68
29	F,H	CRADLE ASSY: Engine stand	4910-00-795-0198	7950198
30	F,H	STAND, MAINTENANCE: Engine	4910-00-795-0189	7950189
31	F,H	BRACKET: Engine cradle	5340-00-117-2541	1159585
32	F,H	TEST FIXTURE, INJECTOR	4910-00-355-6248	YDG
33	F,H	TOOL KIT: Differential	4910-00-150-5868	1166011
34	F,H	ADAPTER: Equalizer	4910-00-880-4279	1159524
35	F,H	GAGE: Cylinder	4910-00-870-6283	1089918
36	F,H	TACHOMETER:	6680-00-242-9229	107
37	H	TUBE TIP REFINISHER: Injector	5720-00-785-1017	1088190
38	H	INSTALLER: Timing Gear	4910-00-736-1371	1094937
39	H	COMPRESSOR: Piston ring		J6883-01
40	H	INSTALLER: Blower drive cam	4910-00-591-6633	J5209
41	H	INSTALLER PILOT: Injector tube	4940-00-711-1919	1088189
42	H	FLARING DIE INSTALLER	4940-00-711-1920	1988189
43	H	INSTALLER: Injector Tube	4940-00-711-1918	1088189
44	H	INSTALLER: Camshaft bearing	5120-00-878-8541	7950163
45	H	CLAMP, Hold Down: Cylinder Liner	5120-00-999-8618	J21793

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) Reference Code	(2) Maintenance Level	(3) Nomenclature	(4) National/NATO Stock Number	(5) Tool Number
46	Н	REAMER: Injector tube	5110-00-785-1016	10881897
47	H	INSTALLER, SEAL: Front Cover	5120-00-937-6143	J9790
48	H	REAMER, HAND: Injector tip	5110-00-294-4606	10881907
49	H	STUD: Cylinder head	4910-00-591-6634	J9665
50	H	REMOVER SET: Carbon	5110-00-084-0951	J9418
51	H	REPAIR KIT: Injector	2815-00-705-9271	J1241-06
52	H	BLOCK: Injector Valve	4910-00-391-1705	5344995
53	H	FIXTURE: Drum turn arbor	4910-00-448-5288	11660096
54	H	VISE: Pin	5120-00-937-8633	J9464
55	H	ADAPTER: Needle valve, injector	4910-00-764-5626	YA396
56	0	No. 1 Common Organizational Maintenance Tool Kit	4910-00-754-0654	SC4910-95 CL-A74
57	0	No. 1 Supplemental Organizational Maintenance Tool Kit	4910-00-754-0653	SC4910-95 CL-A73
58	0	No. 2 Common Organizational Maintenance Tool Kit	4910-00-754-0650	SC4910-9: CL-A72
59	0	No. 2 Supplement Organizational Maintenance Tool Kit	4940-00-754-0743	SC4940-95 CL-A08
a s				



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PUBLICATION DATE
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ORGANIZATIONAL SCHEDULED
MAINTENANCE MANUAL

	111 3-2	-320-27	2-20-1	MAINTENANCE MANUAL
BE EXAC	TPIN-P	_	RE IT IS	IN THIS SPACE TELL WHAT IS WRONG
PAGE NO	PARA- GRAPH	FIGURE	TABLE NO	AND WHAT SHOULD BE DONE ABOUT IT:
1-10			1-1	Item 10, front and, step 3 reads "Using
				15/16-inch wrench, tighten spring U-bolt
				nuts (3). " Should read "Using torque wrench
				with 15/16-inch socket, tighten spring
				U- bolt muto (3) to 300 pound-feet.
1-13			1-1	Stem 13, Propeller shafts Change illustration callents. Reason: callents for universal joint (5) and
				mounting bolts (6) are reversed.
1-37			1-5	Stem 2, Boom assembly, step 7 refers to Vol 3, chapter 18, chapter 10. Should refer to Vol 3, chapter 18,
				para 18-21.
				SAMPLE

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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

- 1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches 1 Meter= 100 Centimeters = 1000 Millimeters = 39.37 Inches
- 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

- 1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
- 1 Kilogram =1000 Grams =2.2 Lb
- 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

TO CHANCE

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces 1 Liter= 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

- 1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet 1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

TEMPERATURE

5/9 (⁰F - 32) = ⁰C 212⁰ Fahrenheit is equivalent to 100⁰ Celsius 90⁰ Fahrenheit is equivalent to 32.2⁰ Celsius 32⁰ Fahrenheit is equivalent to 0⁰ Celsius 9/5 C⁰ + 32 = F⁰

WILL TIDE V DV

APPROXIMATE CONVERSION FACTORS

TO CHANGE TO	MULTIPLY BY
Inches Centimeters	
Feet Meters	
Yards Meters	0.914
Miles Kilometers	1.609
Square Inches Square Centimeters	6.451
Square Feet Square Meters	
Square Yards Square Meters	
Square Miles Square Kilometers.	
Acres Square Hectometers	
Cubic Feet Cubic Meters	
Cubic Yards Cubic Meters	
Fluid Ounces Milliliters	
Pints Liters	
QuartsLiters	
Gallons Liters	
Ounces	28.349
Pounds Kilograms	
Short Tons Metric Tons	
Pound-Feet Newton-Meters	1.356
Pounds per Square Inch Kilopascals	6.895
Miles per Gallon Kilometers per Lite	er 0.425
Miles per Hour Kilometers per Hour	1.609

TO CHANGE TO	MULTIPLY BY
Centimeters Inches	: 0.394
Meters Feet	
Meters Yards	
Kilometers Miles	
Square Centimeters Square Inches	0.155
Square Meters Square Feet.	10.764
Square Meters Square Yards	
Square Kilometers Square Miles	0.386
Square Hectometers Acres	2.471
Cubic Meters Cubic Feet .	35.315
Cubic Meters Cubic Yards.	1.308
Milliliters Fluid Ounces	0.034
Liters Pints	2.113
Liters Quarts	1.057
Liters Gallons	0.264
Grams Ounces	0.035
Kilograms Pounds	2.205
Metric Tons Short Tons .	1.102
Newton-Meters Pound-Feet .	0.738
Kilopascals Pounds per Squ	uare Inch . 0.145
Kilometers per Liter Miles per Gal	lon 2.354
Kilometers per Hour Miles per Hour	r 0.621



