

Changes for Mechanics

MECHANICS, YOU'LL NEED TO MAKE THE FOLLOWING PMCS CHANGES...

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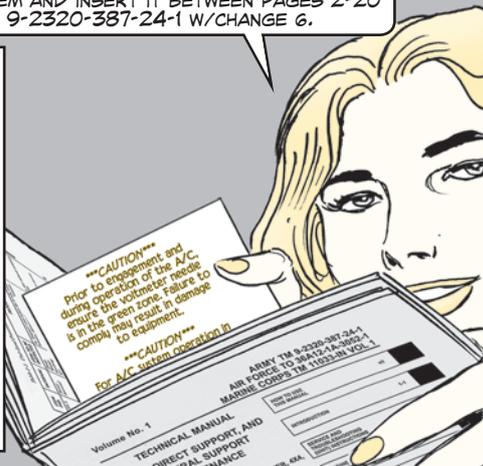
ON A SEPARATE SHEET OF PAPER, WRITE THE FOLLOWING TWO CAUTIONS AND PMCS ITEM AND INSERT IT BETWEEN PAGES 2-20 AND 2-21 OF TM 9-2320-387-24-1 W/CHANGE 6.

CAUTION

Prior to engagement and during operation of the A/C, ensure the voltmeter needle is in the green zone. Failure to comply may result in damage to equipment.

CAUTION

For A/C system operation in ambient temperatures of 75 degrees Fahrenheit or less, ensure that all instrument panel vents are fully open and the fan switch is on high. Failure to comply may result in damage to equipment.



WRITE IN THESE CHANGES TO THE PMCS TABLE:

ITEM NO.	INTERVAL	ITEM TO BE INSPECTED	PROCEDURES	NOT FULFILLING CAPABILITY
24.1	Semi-Annual	Deep Water Fording Kit	<p>a. Inspect vent tubes for bends, cracks, breaks, deterioration, and restrictions.</p> <p>b. Inspect vent tube mounting hardware for proper installation.</p> <p>c. Inspect intake and exhaust extensions for proper installation and leaks.</p>	c. Any ex leaks.
24.2	Semi-annually	Air Conditioning	<p>a) Inspect compressor, clutch/pulley assembly, and all A/C lines/hoses/fittings for evidence of leaks.</p> <p>b) Open all A/C vents. Turn A/C on, flip fan switch to HI, wait 5 minutes to allow temperature to stabilize.</p> <p>c) During the 5 minute wait period, observe the compressor clutch for rapid on/off cycling. If rapid cycling is evident, shut off A/C system.</p> <p>d) Check air flow at the commander's right hand vent for cool air. If air at the vent is not cooler than crew ambient, and/or rapid cycling of the compressor clutch occurred, initiate A/C troubleshooting.</p>	

TM 9-2320-387-24-2

25-50.1. A/C SYSTEM SERVICING (Cont'd)

f. Charging System

NOTE

- If A/C system requires replacement of a major component or has been flushed, refrigerant oil must be added to system to compensate loss (refer to task g.).
- Evacuate A/C system (refer to task e.).
 - Connect refrigerant R-134a source to center hose (5) of manifold gauge set (3).
 - Open refrigerant R-134a source to allow refrigerant to flow into center hose (5).
 - Purge center hose (5), low-pressure hose (6), and high-pressure hose (4) as follows:
 - Slightly loosen center hose (5) at center port (7) of manifold gauge set (3) until refrigerant escapes, then tighten hose (5).
 - Open high-pressure gauge valve (2) and low-pressure gauge valve (1) to allow refrigerant to flow into high-pressure hose (4) and low-pressure hose (6).
 - Purge high-pressure hose (4) and low-pressure hose (6) at service ports on compressor.
 - Turn high-pressure gauge valve (2) and low-pressure gauge valve (1) clockwise to OFF position.
 - Connect STEICE-R (para. 2-47) to obtain engine rpm reading.

WARNING

- Ensure high-pressure gauge valve is in closed position on manifold gauge set during charging. Failure to do so will cause compressor to build pressure in refrigerant container, causing injury to personnel or damage to equipment.
- Start engine and set engine speed to 1,500 rpm with hand throttle (TM 9-2320-387-10).
 - Turn on A/C system (TM 9-2320-387-10) and set blower fans on high speed.

NOTE

- Keep refrigerant container upright at all times so refrigerant enters system as a gas.
- Open low-pressure gauge valve (1) on manifold gauge set (3) until system is fully charged with 3 lbs 8 oz of R-134a refrigerant (refer to table 14-2).
 - Close low-pressure gauge valve (1) on manifold gauge set (3).
 - Return hand throttle to normal idle (TM 9-2320-387-10).
 - Stop engine (TM 9-2320-387-10).
 - Remove refrigerant R-134a source from center hose (5) of manifold gauge set (3).
 - If no refrigerant oil is needed, disconnect manifold gauge hoses (4) and (6) from A/C system service ports (9) and (10). Install caps (8) on service ports (9) and (10). If refrigerant oil is needed, perform task g.

CAUTION

Ensure service port caps are installed and hand tightened. Failure to comply may result in damage to equipment.

**goes between steps 12 and 13*

25-168.8 Change 5

2

IN THE SPACE AT THE BOTTOM OF PAGE 25-168.8 OF TM 9-2320-387-24-2, ADD THE FOLLOWING CAUTION AND ASTERISK IT TO GO BETWEEN STEPS 12 AND 13:



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FINALLY, DURING THE NEXT MAINTENANCE OF THE A/C SYSTEM, WHETHER IT IS A COMPONENT REPLACEMENT OR JUST A REFRIGERANT RECHARGE, MAKE SURE THE THERMOSTAT SWITCH, NSN 6685-01-539-7057, LABEL HAS A **GOLD BACKGROUND WITH BLACK LETTERING**. THE GOLD LABEL SWITCH IS DESIGNED TO PREVENT THE COMPRESSOR FROM CYCLING/SWITCHING ON BEFORE VALIDATING AVAILABLE VOLTAGE, VALIDATING SYSTEM PRESSURE, OR COMPLETELY DISENGAGING BASED ON A PREVIOUS OFF SIGNAL. THERMOSTAT SWITCHES WITH ANY OTHER COLOR LABELING SHOULD BE REPLACED.

LOOK FOR THESE UPDATED A/C OPERATING AND MAINTENANCE CHANGES...

...IN FUTURE UPDATES TO TM 9-2320-387-10, TM 9-2320-387-24-1 AND TM 9-2320-387-24-2.



PS END