

EQUIPMENT SERVICEABILITY CRITERIA
FOR

TRUCK, PLATFORM, UTILITY: 1/2-TON, 4 X 4

- M274A2 (2320-074-1167)
- M274A3 (2320-782-5792)
- M274A4 (2320-782-5793)
- M274A5 (2320-930-1976)

Headquarters, Department of the Army, Washington, DC, 9 May 1973

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Section I. INSTRUCTIONS

I. Purpose. This manual furnishes the user with a procedure for evaluating the readiness condition of the equipment to perform satisfactorily its primary mission for 90 days with normal maintenance support.

*This manual supersedes TM 9-2320-246-ESC, 2 May 1969.

NOTE

Application of this procedure, however, does not eliminate or reduce the requirements for prescribed maintenance service on the equipment, and does not authorize replacement of components.

2. Definitions. *a. Equipment Category GREEN.* Equipment free of conditions that would limit reliable performance of its primary mission for a period of 90 days of operation.

b. Equipment Category AMBER. Operationally ready equipment with limitations which may curtail a reliable performance of its primary mission for a period of 90 days.

c. Equipment Category RED. Equipment unable to perform its primary mission immediately or possessing an unacceptable reliability level for 90 days sustained performance of its primary mission.

d. Color Rating. Rating of equipment accessories, components, etc., in accordance with *a*, *b*, and *c* above.

e. Multiple-Aspect Equipment. Equipment of one logistic manager which contains subsystems, end items, or components of another logistics manager.

3. General Instructions. *a.* This technical manual will be filed in the equipment log binder. If classified, this technical manual will be filed in accordance with the provisions of AR 380-5.

b. This evaluation will be actually performed on the item being rated by the operator/crew.

c. Authorized subsystems and components of multiple-aspect equipment requiring evaluation but which are not available at the organization shall be given the lowest color rating authorized for that item.

d. Equipment covered in this manual which requires service-

ability checks but which is not authorized to the evaluating organization shall not be rated.

e. This equipment is rated on the basis of capability for immediate operation and amount of wear life remaining on limited life components. The rating is not meaningful unless each check is made with the utmost care and accuracy.

f. Record the evaluation results on DA Form 2404, Equipment Inspection and Maintenance Worksheet, using a separate sheet for each multiple-aspect item of equipment, subsystem or component, including those evaluated by separately published ESC technical manuals. The blocks will be completed in accordance with TM 38-750.

g. If an URGENT modification work order has not been applied to any authorized equipment the equipment and the system will be rated "RED."

h. Subsystems and components will be separately color rated.

i. A color rating will be assigned for the overall system.

4. Special Instructions. *a.* To assist in performing the evaluation the maximum use of LO 9-2320-246-12 and the preventive maintenance services and the trouble shooting charts in TM 9-2320-246-10 will be made.

b. A scale is illustrated to assist for measuring those items that require measurement. (See Fig. A).

5. Reporting of Equipment Publications Improvements. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Tank-Automotive Command, AMSTA-MAP, Warren, MI 48090.

Section II. AUTOMOTIVE EVALUATING PROCEDURE

6. Evaluation Requirements. *a.* Before inspecting the vehicle, insure that coolant, fuel, and oil levels are adequate and that the vehicle will, without damage, operate satisfactorily to perform the requirements of this evaluation.

b. The information for items 2 through 11 is obtained by physical inspection and drive testing the vehicle. The drive test will be completed before any entries are recorded for the 10 items.

7. Procedure. *a. Information To Be Determined by Inspection and Operation.* Evaluate each item listed and record the proper values on DA Form 2404 as described in section I.

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
ITEM 1. Modification Work Orders (DA Form 2408-5)			
Determine if all pertinent URGENT MWO's have been applied.	All URGENT MWO's applied.		Any URGENT MWO not applied.
ITEM 2. Tires			
Determine the general condition and serviceability of each tire. Measure tread depth remaining at groove near center of tire.	All tires with remaining tread measuring 1/8-inch or more. No missing, flat or unserviceable tires.		One tire flat, missing or unserviceable, or all tires measure less than 1/8-inch.
ITEM 3. Frame			
Inspect frame tubes and cross-members for cracks/breaks, broken welds and loose rivets.	No cracked/broken tubes, crossmember, broken welds, or loose rivets.		Any cracked, loose or broken tubes, cross-members, broken welds, or rivets.

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
ITEM 4. Engine			
Check starting cable for serviceability and function. Operate engine. During operation, with engine at normal operating temperature check for any obvious unusual noises or unusual vibrations.	Adequate performance; no unusual noise.		Performance inadequate, or unusual noises or vibrations. Engine inoperative. Starting cable missing or unserviceable.
ITEM 5. Fuel System			
Inspect entire fuel system for leaks or unserviceability: tank, gaskets, lines, and connections.	All items serviceable. No evidence of fuel leakage.		Any fuel leakage, any unserviceable line, connection or seal.
ITEM 6. Exhaust System			
Inspect the exhaust system for leaks and deterioration.	All items serviceable and function properly.		One item missing or evidence of leaking or deterioration.
ITEM 7. Clutch Assembly			
Operate vehicle to determine if clutch grabs, chatters, or slips. Determine if clutch has 3/4-inch free travel.	Operate properly; has correct pedal free travel.	Operates properly; has incorrect pedal free travel.	Clutch inoperative, slipping or definite grab or chatter.

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
<p>ITEM 8. Transmission and Transfer</p> <p>Operate vehicle in all gears to determine performance. During operation, check for any unusual noises. After operation check for leaks.</p>	Operates properly; no unusual noise or leaks.	Has unusual noise or dripping of lubricant but less than 3 drops in a 5-minute period.	Transmission or transfer inoperative. Dripping of lubricant that exceeds 3 drops in a 5-minute period.
<p>ITEM 9. Steering Assembly</p> <p>Operate vehicle to determine performance. Manually check tie rods and ends for looseness or damage. Check steering housing and bracket for loose mounting.</p>	Operates properly; housing and mounting bracket is tight.	Operates but indicates wear; loose housing or mounting brackets.	Steering action either loose or binding, or steering wheel difficult to turn; steering inoperative.
<p>ITEM 10. Brakes</p> <p>Operate service brake and handbrake to determine performance.</p>	Service and handbrakes operate properly.	Handbrake inoperative.	Service brakes do not operate properly.
<p>ITEM 11. Front and Rear Axles and Propeller Shafts</p> <p>Operate vehicle to check for any unusual noises. Manually check U-joints to determine obvious rotary movement and/or clicking</p>	Operates properly; no unusual noise or excessive U-joint wear.	Operates but has unusual noise, or excessive U-joint wear.	Front differential is inoperative or propeller shaft is inoperative.

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
<p>noise resulting from excessive wear. Excessive universal joint wear is usually indicated by a loose feeling and a clicking noise when a twisting or rotating motion is applied by hand.</p>			
<p>ITEM 12. Engine Oil Consumption (DA Form 2408-1, Daily and/or Monthly)</p>			
<p>Total number of quarts of oil used during the last 50 hours of operation. If less than 50 hours have accumulated since the last oil change, use data between the last two oil changes. Do not consider the amount of oil in making the oil changes.</p>	0 to 3 qts.	Over 3	
<p>ITEM 13. Engine Hours (From 2408-10)</p>			
<p>Determine the miles of operation on the engine since installed in the vehicle.</p>	0 to 1,000	Over 1,000	
<p>ITEM 14. Transmission/Transfer Hours (DA Form 2408-10)</p>			
<p>Determine the hours on the transmission/transfer since installed in the vehicle.</p>	0 to 600	Over 600	

PROCEDURE	RATINGS		
	GREEN	AMBER	RED
ITEM 15. Front and Rear Axle Hours (DA Form 2408-10) Determine the hours on the front and rear axles since installed on the vehicle.	0 to 600	Over 600	

b. Rating

- (1) Determine if any **AMBER** ratings were recorded.
- (2) Determine if any **RED** ratings were recorded.
- (3) The color rating will be the lowest rating recorded.

By Order of the Secretary of the Army:

Official:

VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General

CREIGHTON W. ABRAMS,
General, United States Army,
Chief of Staff

Distribution:

To be distributed in accordance with DA Form 12-38 (qty rqr block No. 457) operator maintenance requirements for Truck, Utility, ½ Ton, M274A2, M274A3, M274A4, M274A5.

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THIS SCALE IS ACCURATE

