

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4 X 4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
VOLUME NO. 2 OF 5**

MODEL	NSN	EIC	
TRK, CAR., LMTV, M1078 W/WN W/O WN	2320-01-360-1898 2320-01-354-3385	BHH BHD	HOW TO USE THIS MANUAL PAGE iv
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TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC	TRANSMISSION SYSTEM TROUBLESHOOTING PAGE 2-1359
TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ BHF	BRAKE SYSTEM TROUBLESHOOTING PAGE 2-1607
			AIR SYSTEM TROUBLESHOOTING PAGE 2-1713
			CENTRAL TIRE INFLATION SYSTEM (CTIS) TROUBLESHOOTING PAGE 2-1767
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			11K SELF-RECOVERY WINCH (SRW) SYSTEM TROUBLESHOOTING PAGE 2-1945
			ENGINE MAINTENANCE PAGE 3-1

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Washington, D.C., 17 June 1998

Unit Maintenance Manual
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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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HOW TO USE THIS MANUAL

OVERVIEW

This technical manual (TM) is provided to help you maintain the LMTV at the Unit Maintenance level. Because of its size, it is divided into five volumes. Volume 2 contains the following major sections in order of appearance:

- **WARNING SUMMARY.** Provides a summary of the most important warnings that apply throughout the manual.
- **CHAPTER 2, VEHICLE MAINTENANCE.** This chapter contains the continuation of the troubleshooting tables.
- **CHAPTER 3, ENGINE MAINTENANCE.**

- **APPENDIX A, REFERENCES.** Lists publications used with the LMTV.
- **APPENDIX B, MAINTENANCE ALLOCATION CHART.** The maintenance allocation chart denotes the level of maintenance which performs specific maintenance tasks and the time required. It also lists tools and special tools required for each task.
- **APPENDIX C, TOOLS IDENTIFICATION LIST.** Lists equipment used in the performance of maintenance and references publications which contain information regarding the equipment.
- **APPENDIX D, EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.** Lists expendable and durable items used in the performance of maintenance.
- **APPENDIX E, ILLUSTRATED LIST OF MANUFACTURED ITEMS.** Illustrates and describes items that must be fabricated from bulk materials for repair of the LMTV.
- **APPENDIX F, TORQUE LIMITS.** Lists the standard torque values for specific attaching hardware.
- **APPENDIX G, MANDATORY REPLACEMENT PARTS.**
- **APPENDIX H, LUBRICATION ORDER.**
- **APPENDIX J, ADDITIONAL AUTHORIZATION LIST (AAL).**
- **APPENDIX K, TRANSMISSION/TRANSMISSION CONTROLS ADAPTABILITY CHART.**
- **SUBJECT INDEX.** Lists important subjects contained in volume 2 in alphabetical order and gives the associated paragraph number.

FINDING INFORMATION

There are several ways to find the information you need in this manual. They are as follows:

- **FRONT COVER INDEX.** The front cover index contains a list of the most important topics contained in each volume. It features a black box at the right edge of the cover which corresponds with a black box on the page containing the topic. The topics listed on the front cover are highlighted in the table of contents with a box.
- **TABLE OF CONTENTS.** Lists chapters, sections, appendixes, and indexes with page numbers in order of appearance.
- **CHAPTER INDEXES.** List paragraphs contained in the individual chapters with paragraph and page numbers in order of appearance.
- **SYMPTOM INDEX.** Lists malfunctions contained in the troubleshooting table with page numbers in order of appearance.

TROUBLESHOOTING

Troubleshooting is contained in chapter 2. When a malfunction occurs, look at the symptom index for the vehicle troubleshooting table in chapter 2. Find the malfunction in the index. Turn to the page number listed for the malfunction in the troubleshooting table. Perform the steps required to correct the malfunction. If you can't find the malfunction, or the malfunction is not corrected, notify your supervisor.

MAINTENANCE

- **SCHEDULED MAINTENANCE.** Your scheduled maintenance is located in table 2-1, PMCS. These checks and services are mandatory at the intervals listed. Always follow the **WARNINGS** and **CAUTIONS**.
- **UNSCHEDULED MAINTENANCE.** Unscheduled maintenance is located in chapters 3 through 22. The PMCS and troubleshooting tables often reference you to these procedures. When you perform maintenance, look over the entire procedure before starting. Make sure you have the necessary tools and materials at hand. Always follow the **WARNINGS** and **CAUTIONS**.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

- Become familiar with the entire maintenance procedure before beginning a maintenance task.
- Read all **WARNINGS** and **CAUTIONS** before performing any procedures.

CHAPTER 2 VEHICLE MAINTENANCE (CONT)

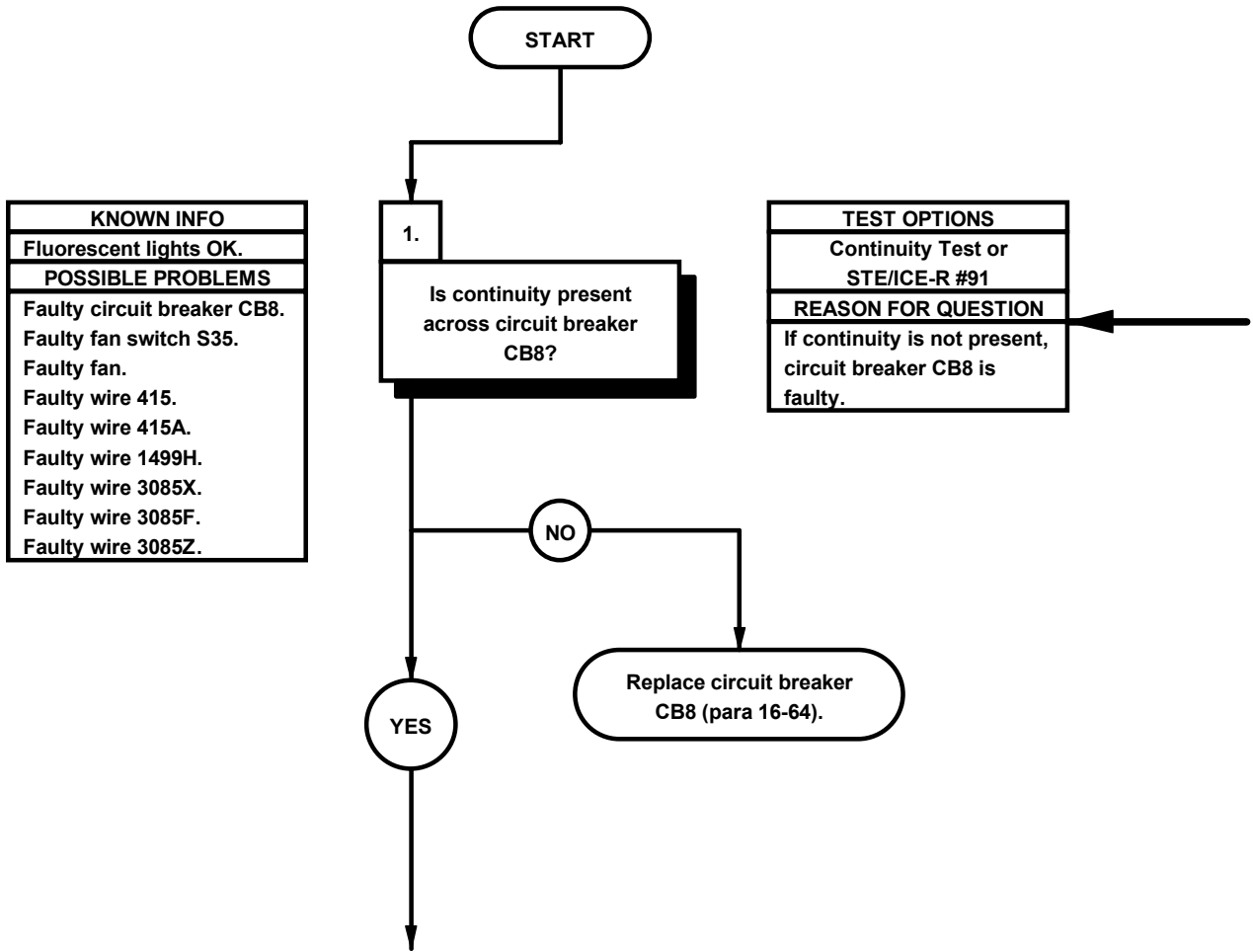
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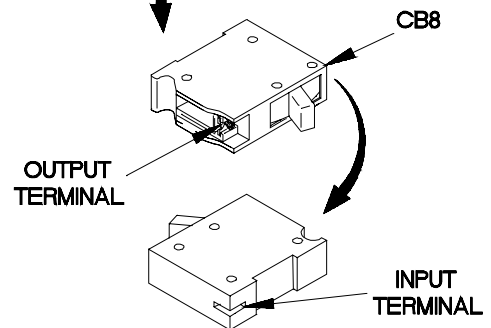
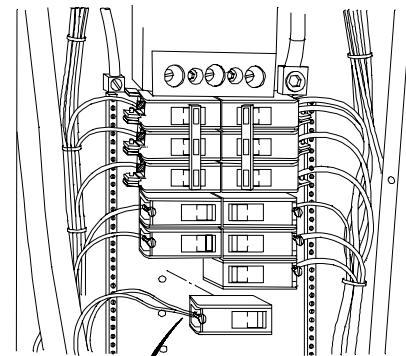
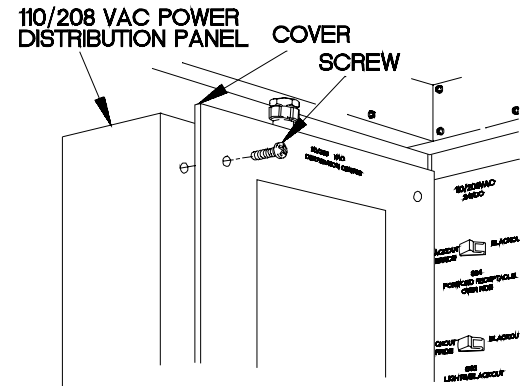
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e99. M1079 FAN DOES NOT OPERATE	
INITIAL SETUP	
Equipment Condition Engine shut down (TM 9-2320-365-10). AC power disconnected (TM 9-2320-365-10).	Tools and Special Tools Tool Kit, Genl Mech (Item 44, Appendix C) STE/ICE-R (Item 39, Appendix C) Multimeter, Digital (Item 22, Appendix C)
Personnel Required (2)	
References TM 9-4910-571-12&P	



- | CONTINUITY TEST |
|---|
| (1) Remove six screws and 110/208 VAC POWER DISTRIBUTION PANEL cover from power distribution panel. |
| (2) Remove circuit breaker CB8 from power distribution panel. |
| (3) Position circuit breaker CB8 to ON. |
| (4) Set multimeter to ohms. |
| (5) Connect positive (+) probe of multimeter to output terminal of circuit breaker CB8. |
| (6) Connect negative (-) probe of multimeter to input terminal of circuit breaker CB8 and note reading on multimeter. |
| (7) If continuity is not present, replace circuit breaker CB8 (para 16-64). |
| (8) Install circuit breaker CB8 in power distribution panel. |



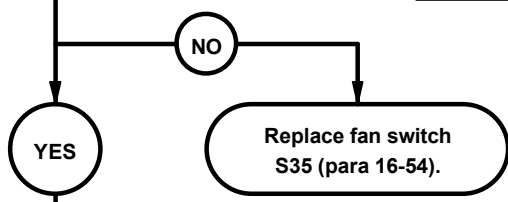
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e99. M1079 FAN DOES NOT OPERATE (CONT)

KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK.
POSSIBLE PROBLEMS
Faulty fan switch S35. Faulty fan. Faulty wire 415. Faulty wire 415A. Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.

2.
Is continuity present across fan switch S35?

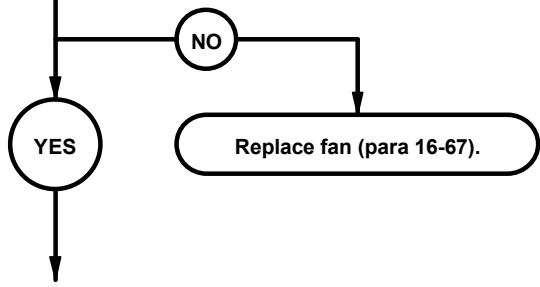
TEST OPTIONS
Continuity Test or STE/ICE-R #91
REASON FOR QUESTION
If continuity is not present, fan switch S35 is faulty.



KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK. Fan switch S35 OK.
POSSIBLE PROBLEMS
Faulty fan. Faulty wire 415. Faulty wire 415A. Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.

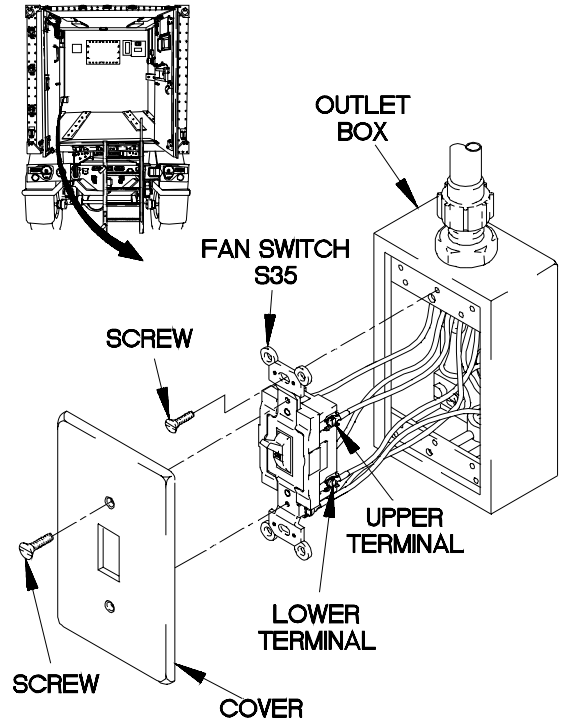
3.
Is 30-40 ohms resistance present from fan connector terminal 2 to fan connector terminal 4?

TEST OPTIONS
Resistance Test or STE/ICE-R #91
REASON FOR QUESTION
If resistance is too high or too low, fan is faulty.



CONTINUITY TEST

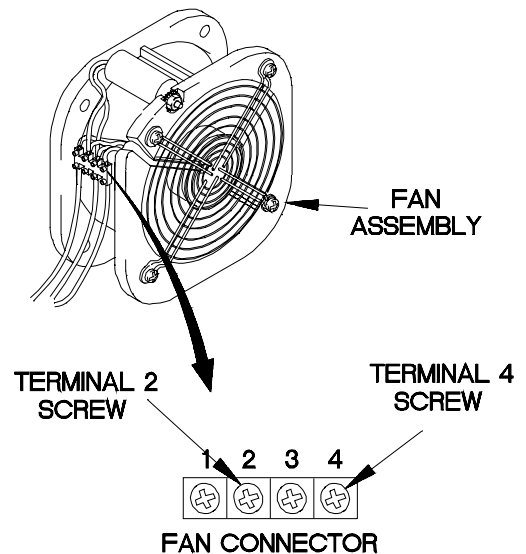
- (1) Remove two screws and cover from outlet box.
- (2) Remove two screws and fan switch S35 from outlet box.
- (3) Position fan switch S35 to ON.
- (4) Set multimeter to ohms.
- (5) Connect positive (+) probe of multimeter to lower terminal of fan switch S35.
- (6) Connect negative (-) probe of multimeter to upper terminal of fan switch S35 and note reading on multimeter.
- (7) If continuity is not present, replace fan switch S35 (para 16-54).



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RESISTANCE TEST

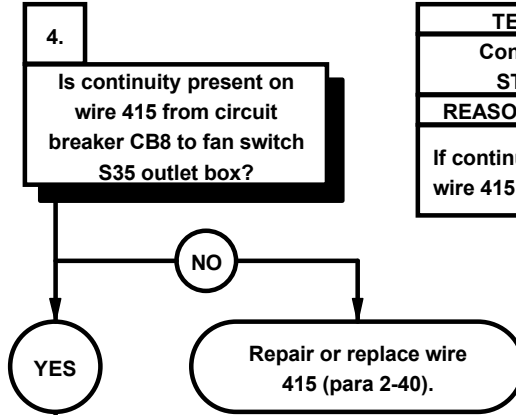
- (1) Remove fan assembly (para 16-67).
- (2) Set multimeter to ohms.
- (3) Connect positive (+) probe of multimeter to fan connector terminal 4 screw.
- (4) Connect negative (-) probe of multimeter to fan connector terminal 2 screw and note reading on multimeter.
- (5) If 30-40 ohms resistance is not present, replace fan (para 16-67).



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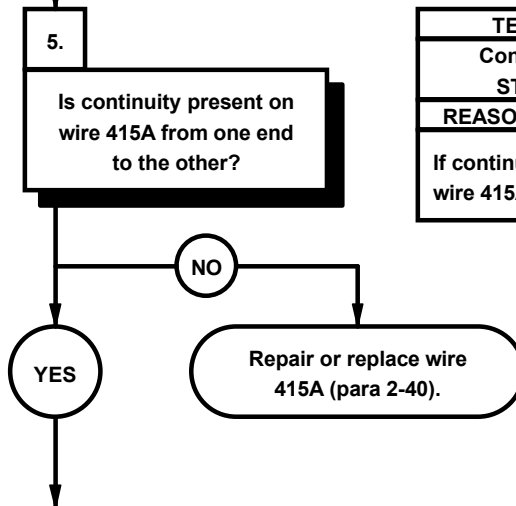
e99. M1079 FAN DOES NOT OPERATE (CONT)

KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK. Fan switch S35 OK. Fan OK.
POSSIBLE PROBLEMS
Faulty wire 415. Faulty wire 415A. Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.



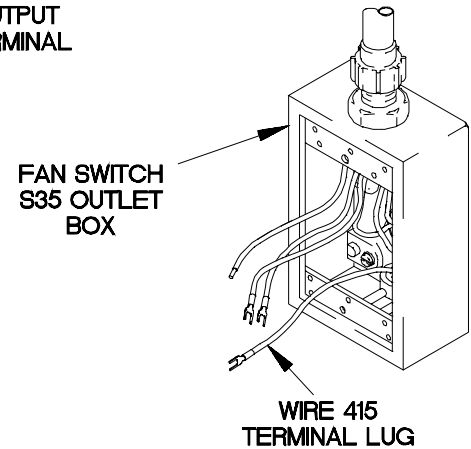
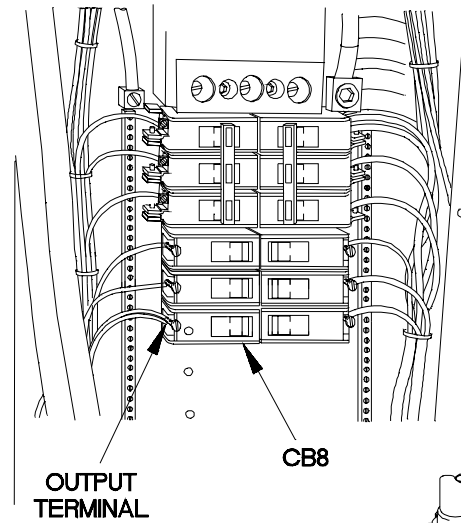
TEST OPTIONS
Continuity Test or STE/ICE-R #91
REASON FOR QUESTION
If continuity is not present, wire 415 is faulty.

KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK. Fan switch S35 OK. Fan OK. Wire 415 OK.
POSSIBLE PROBLEMS
Faulty wire 415A. Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.



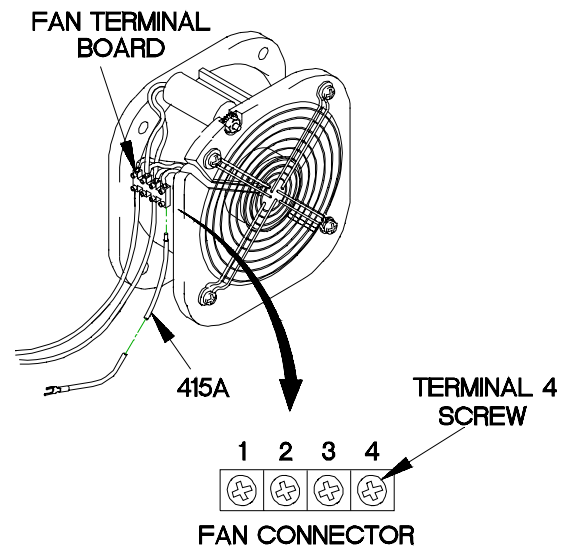
TEST OPTIONS
Continuity Test or STE/ICE-R #91
REASON FOR QUESTION
If continuity is not present, wire 415A is faulty.

- | CONTINUITY TEST | |
|-----------------|--|
| (1) | Set multimeter to ohms. |
| (2) | Connect positive (+) probe of multimeter to output terminal of circuit breaker CB8. |
| (3) | Connect negative (-) probe of multimeter to wire 415 terminal lug in fan switch S35 outlet box and note reading on multimeter. |
| (4) | If continuity is not present, repair or replace 415 (para 2-40). |



32E97041

- | CONTINUITY TEST | |
|-----------------|--|
| (1) | Loosen terminal 4 screw on fan terminal board. |
| (2) | Remove wire 415A from fan terminal board. |
| (3) | Set multimeter to ohms. |
| (4) | Connect positive (+) probe of multimeter to wire 415A terminal lug. |
| (5) | Connect negative (-) probe of multimeter to other end of wire 415A and note reading on multimeter. |
| (6) | If continuity is not present, repair or replace wire 415A (para 2-40). |
| (7) | Position wire 415A in fan terminal board. |
| (8) | Tighten terminal 4 screw on fan terminal board. |



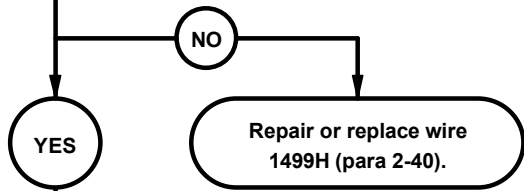
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e99. M1079 FAN DOES NOT OPERATE (CONT)

KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK. Fan switch S35 OK. Fan OK. Wire 415 OK. Wire 415A OK.
POSSIBLE PROBLEMS
Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.

6.
Is continuity present on wire 1499H from one end to the other?

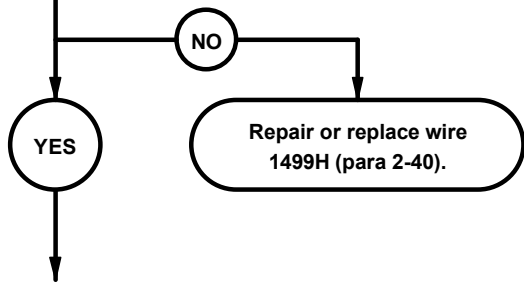
TEST OPTIONS
Continuity Test or STE/ICE-R #91
REASON FOR QUESTION
If continuity is not present, wire 1499H is faulty.



KNOWN INFO
Fluorescent lights OK. Circuit breaker CB8 OK. Fan switch S35 OK. Fan OK. Wire 415 OK. Wire 415A OK.
POSSIBLE PROBLEMS
Faulty wire 1499H. Faulty wire 3085X. Faulty wire 3085F. Faulty wire 3085Z.

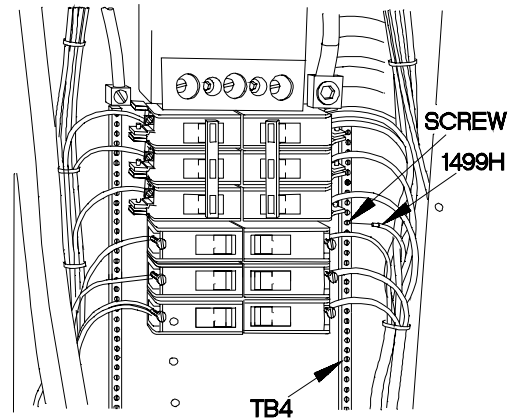
7.
Is continuity present on wire 1499H from power distribution panel to fan switch S35 outlet box?

TEST OPTIONS
Continuity Test or STE/ICE-R #91
REASON FOR QUESTION
If continuity is not present, wire 1499H is faulty.



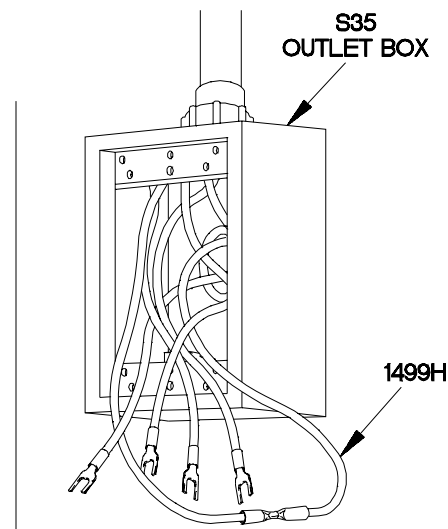
CONTINUITY TEST

- (1) Loosen screw on fan terminal board.
- (2) Remove wire 1499H from fan terminal board.
- (3) Set multimeter to ohms.
- (4) Connect positive (+) multimeter to wire 1499H.
- (5) Connect negative (-) probe of multimeter to wire 1499H and note reading on multimeter.
- (6) If continuity is not present, repair or replace wire 1499H (para 2-40).
- (7) Position wire 1499H in fan terminal board.
- (8) Tighten screw on fan terminal board.



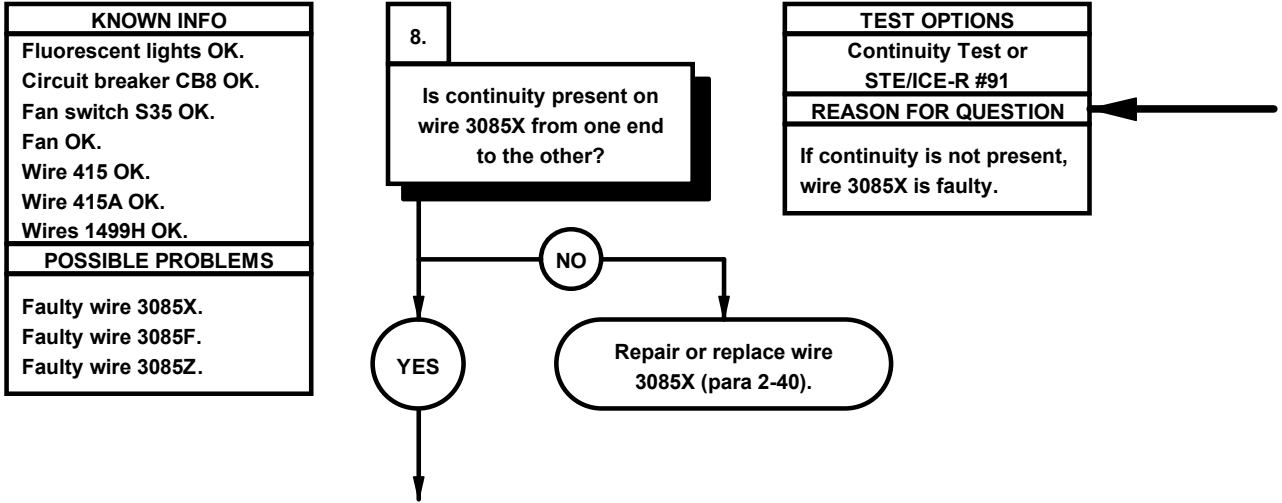
CONTINUITY TEST

- (1) Loosen screw in terminal board TB4.
- (2) Remove wire 1499H from terminal board TB4.
- (3) Set multimeter to ohms.
- (4) Connect positive (+) probe of multimeter to wire 1499H in power distribution panel.
- (5) Connect negative (-) probe of multimeter to wire 1499H in fan switch S35 outlet box and note reading on multimeter.
- (6) If continuity is not present, repair or replace wire 1499H (para 2-40).
- (7) Position wire 1499H in terminal board TB4.
- (8) Tighten screw in terminal board TB4.



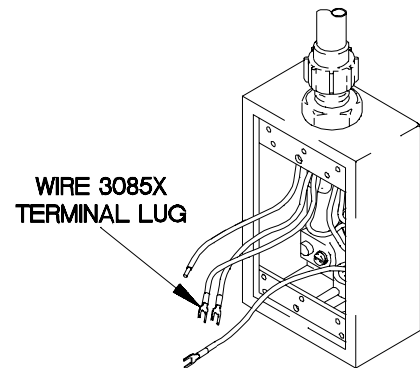
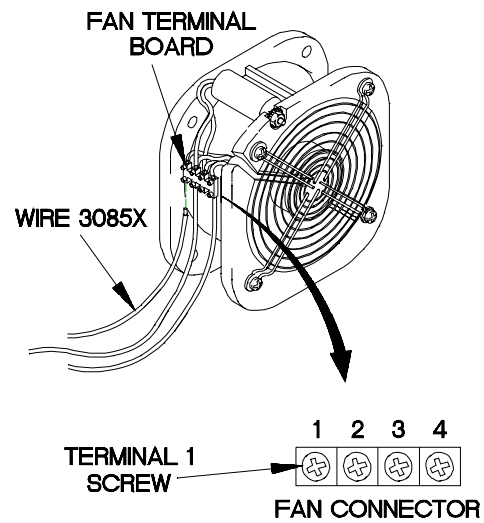
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e99. M1079 FAN DOES NOT OPERATE (CONT)



CONTINUITY TEST

- (1) Loosen terminal 1 screw on fan terminal board.
- (2) Remove wire 3085X from fan terminal board.
- (3) Set multimeter to ohms.
- (4) Connect positive (+) probe of multimeter to wire 3085X terminal lug.
- (5) Connect negative (-) probe of multimeter to other end of wire 3085X and note reading on multimeter.
- (6) If continuity is not present, repair or replace wire 3085X.
- (7) Position wire 3085X in fan terminal board.
- (8) Tighten terminal 1 screw on fan terminal board.



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e99. M1079 FAN DOES NOT OPERATE (CONT)

