

**TECHNICAL MANUAL**

**OPERATOR, UNIT, DIRECT SUPPORT  
AND GENERAL SUPPORT  
MAINTENANCE MANUAL  
INCLUDING REPAIR PARTS AND  
SPECIAL TOOLS LIST FOR  
ELECTRICAL ENVIRONMENTAL  
SYSTEM (EES) KIT USED ON**

**TRUCK UTILITY: S250 SHELTER CARRIER, 4X4, M1037  
FOR TRAFFIC JAM AN/TLQ-17A(V)3 (HMMWV)**

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HEADQUARTERS  
DEPARTMENT OF THE ARMY  
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REPORTING ERRORS AND RECOMMENDING IMPROVENENTS

You can help improve this manual . If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48090-5000. A reply will be furnished to you.

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## CHAPTER 1 INTRODUCTION

### Section I. GENERAL INFORMATION

#### 1-1. SCOPE

The purpose of this technical manual is to provide information on the operation, maintenance, and spare parts for the components of the Electrical Environmental System (EES) kit on the M1037 truck used in Traffic Jam AN/TLQ-17A(V)3 (HMMWV). This information is not contained in the M998-series vehicles technical manuals.

#### NOTE

To ensure accurate operation of status warning system, the following gage part numbers (PN) must be used: engine oil pressure gage, PN C5136382; coolant temperature gage, PN C5136383; and fuel gage, PN C5136384. Replace gages IAW TM 9-2320-280-20 if above PNs are not installed in vehicle.

The Traffic Jam AN/TIQ-17A(V)3 (HMMWV) is a mobile Electronic Countermeasures (ECM) system designed for surveillance or jamming of hostile communications networks. This manual will be used in conjunction with the following technical manuals:

- |                     |                       |
|---------------------|-----------------------|
| ● TM 9-2320-280-10  | ● TM 32-5865-301-10   |
| ● TM 9-2320-280-20  | ● TM 32-5865-301-24   |
| ● TM 9-2320-280-20P | ● TM 32-5865-301-24P  |
| ● TM 9-2320-280-34  | ● TM 32-6130-005-23&P |
| ● TM 9-2320-280-34P |                       |

#### 1-2. MAINTENANCE FORMS AND RECORDS

Department of the Army forms and procedures used for equipment maintenance will be prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS).

#### 1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's)

If your EES kit needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 Quality Deficiency Report (QDR). Mail it to us at: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-Q, Warren, MI 48397-5000. We'll send you a reply.

1-4. NOMENCLATURE CROSS-REFERENCE LIST

<u>Common Name</u>	<u>Official Nomenclature</u>
Alternator bracket	Mounting bracket
Boot	Circuit breaker boot
Cable	Power cable assembly
Cable assembly W66	Engine interface cable assembly (W66)
Coolant temperature gage	Temperature gauge assy
Drill bit	Twist drill
Dust cap	Dust cap assembly
EES kit	Electrical Environmental System Kit
Engine oil pressure gage	Oil pressure gauge assy
Fuel gage	Fuel level gauge assy
Guard	Circuit breaker guard
Hand throttle cable	Hand throttle cable assembly
Insulation template	Engine cover insulation template
"O" ring	Preformed packing "O" ring
Power interface box	Power interface box assembly
Quick disconnect	Quick couple assembly
Storage box	Storage box assembly
Surge tank assembly	Radiator overflow tank
Tach/hourmeter box	Tach/hourmeter assembly
Terminal	Feedthru terminal
Tie-strap	Strap, tie-down, electrical
200 amp alternator	Accessory engine generator
Water pump pulley	Cone pulley
Wire no. 798	A/C ground wire assembly

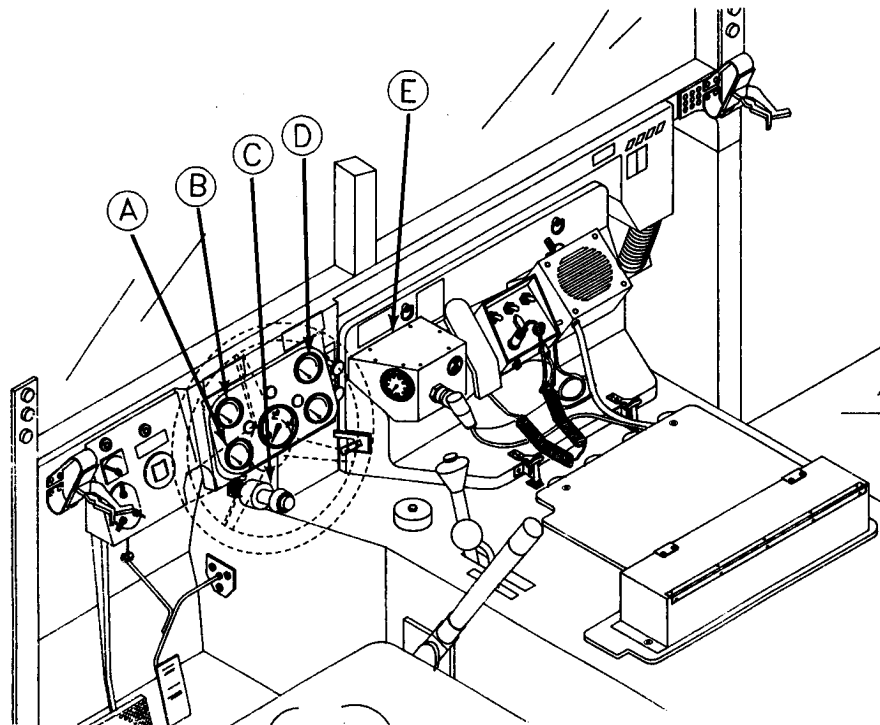
## Section II. EQUIPMENT DESCRIPTION

## 1-5. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The components of the EES kit are used to equip an M1037 truck for operation and use in the Traffic Jam AN/TLQ-17A(V)3 (HMMWV) system.

## 1-6. LOCATION AND DESCRIPTION OF INTERIOR COMPONENTS

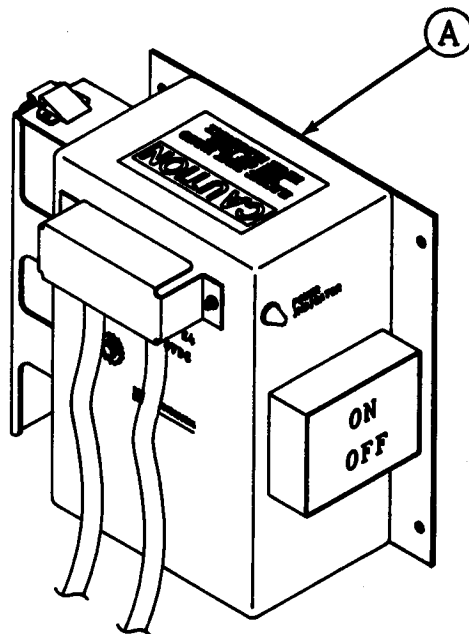
- A FUEL GAGE** - Located in instrument cluster and indicates fuel level. Must be PN C5136384 (see para 1-1).
- B ENGINE OIL PRESSURE GAGE** - Located in instrument cluster and indicates oil pressure while engine is running. Must be PN C5136382 (see para 1-1).
- C HAND THROTTLE CABLE** - Located in cab near instrument cluster and used in setting engine rpm while vehicle is in stationary position.
- D COOLANT TEMPERATURE GAGE** - Located in instrument cluster and indicates engine coolant temperature. Must be PN C5136383 (see para 1-1).
- E TACH/HOURMETER BOX** - Located in cab and attached to engine access cover and houses tachometer and hourmeter.



- |          |                                 |          |                                 |
|----------|---------------------------------|----------|---------------------------------|
| <b>A</b> | <b>FUEL GAGE</b>                | <b>D</b> | <b>COOLANT TEMPERATURE GAGE</b> |
| <b>B</b> | <b>ENGINE OIL PRESSURE GAGE</b> | <b>E</b> | <b>TACH/HOURMETER BOX</b>       |
| <b>C</b> | <b>HAND THROTTLE CABLE</b>      |          |                                 |

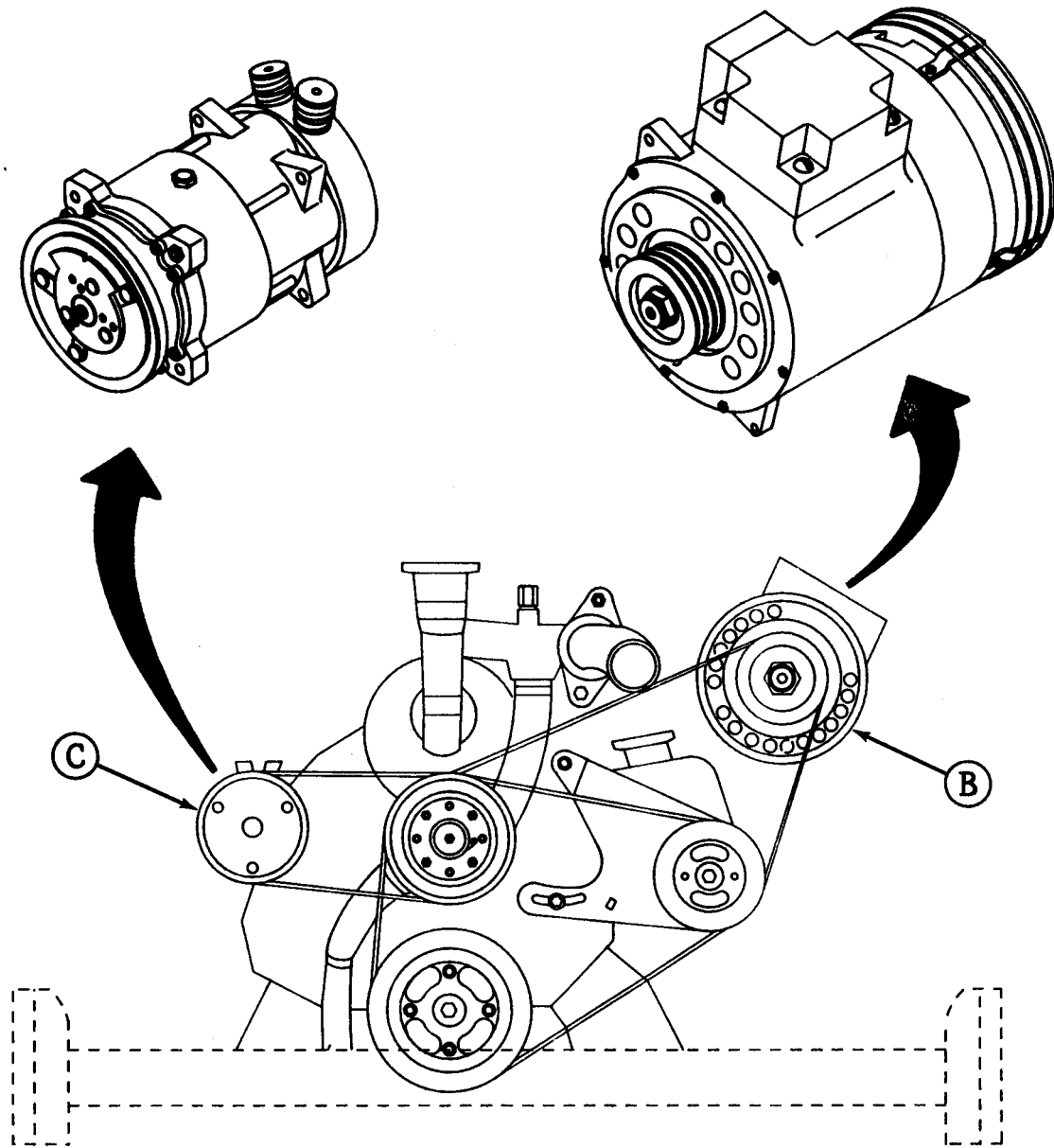
1-7. LOCATION AND DESCRIPTION OF EXTERIOR COMPONENTS

- A **POWER INTERFACE BOX** - Located behind passenger seat on inside wall of truck bed and includes main power terminals and circuit breaker.
- B **200 AMP ALTERNATOR** - Located on engine and used to provide 200 amp service necessary for operation of the countermeasures equipment.
- C **COMPRESSOR** - Located on engine and used for maintaining operation temperature of the countermeasures equipment.



A **POWER INTERFACE BOX**

1-7. LOCATION AND DESCRIPTION OF EXTERIOR COMPONENTS (Cent'd)



B 200 AMP ALTERNATOR

C COMPRESSOR