

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL

BINOCULAR M18

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Changes in force. c 3

Technical Manual
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BINOCULAR M18

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1. Scope

a. This technical manual contains instructions for operation and organizational maintenance of binocular M18 with equipment (fig. 1). The initial application for binocular M18 has been designed for Tank, Combat, Full Track, 105mm Gun, M60 Series. The turret mechanic is responsible for organizational maintenance.

b. Appendix I contains a list of current references, including supply and technical manuals, forms, and other publications applicable to binocular M18. Appendix II lists basic issue items, repair parts, and special tools and equipment available to the operator. Appendix III contains the maintenance allocation chart. TM 9-6650-215-20P lists repair parts and special tools and equipment for organizational maintenance personnel.

c. This first edition is being published in advance of complete technical review. The direct reporting of errors, omissions, and recommendations for improving this equipment manual by the individual user is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate, and forwarded by the individual using the manual. The original and one copy will be forwarded direct to Commanding Officer, Frankford Arsenal, ATTN: SMUFA-31001,

Philadelphia, Pennsylvania, 19137. One information copy will be provided to the individual's immediate superior.

2. Maintenance Allocation

In general, prescribed maintenance responsibilities will apply as reflected in the maintenance allocation chart. In all cases where the nature of the repair, modification, or adjustment is beyond the scope or facilities of the using organization, the supporting maintenance unit should be informed so that trained personnel with suitable tools and equipment may be provided or other instructions issued.

3. Forms, Records, and Reports

a. *Authorized Forms.* The forms generally applicable to units operating or maintaining this materiel are listed in TM 38-750.

b. *Field Report of Accidents.* The reports of the Army safety program are listed in AR 385-40. These reports are required whenever accidents involving injury to personnel or damage to materiel occur.

c. *Equipment Improvement Recommendations.* Deficiencies detected in the equipment or materials should be reported using the Equipment Improvement Recommendation section of DA Form 2407.

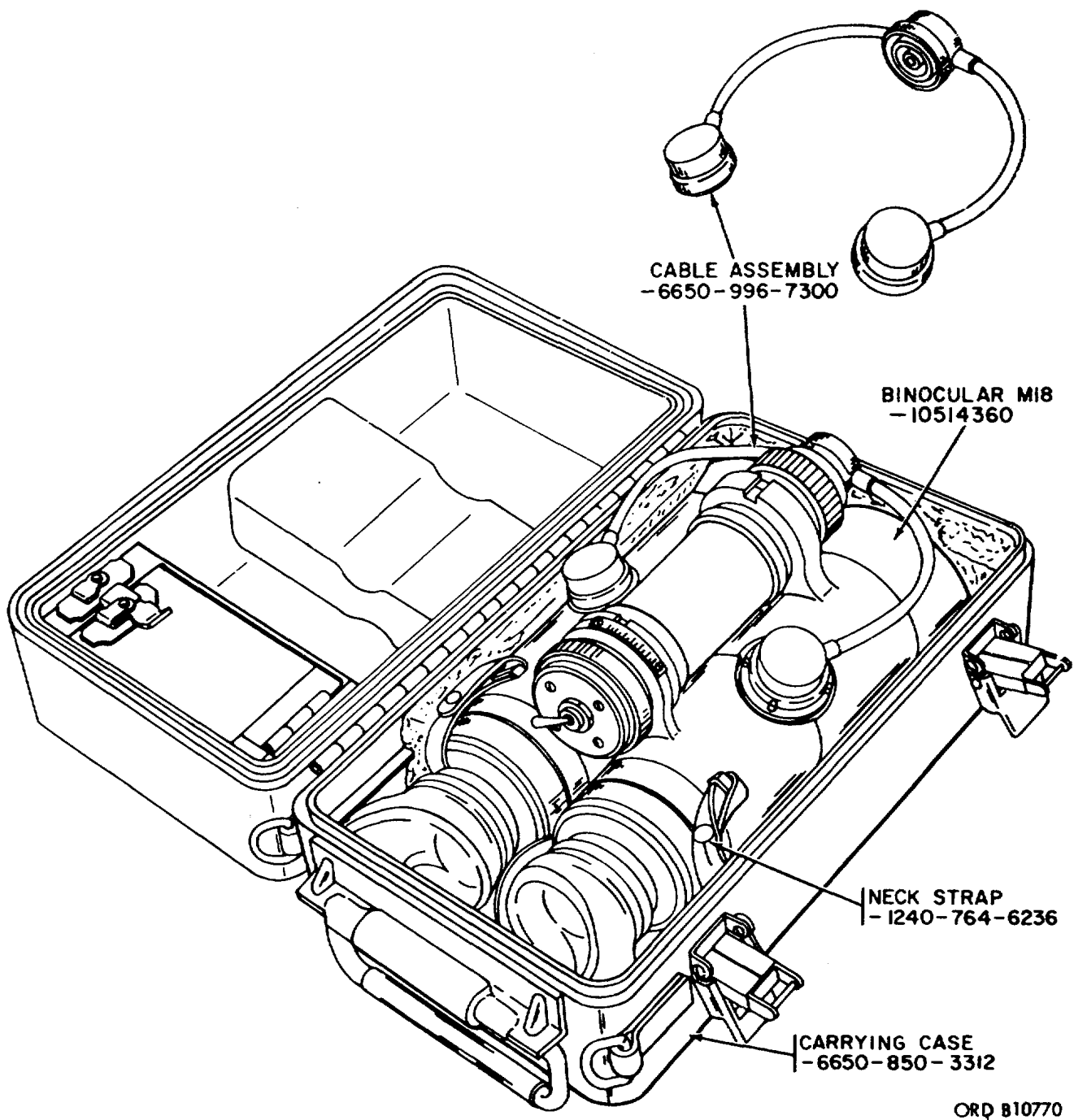


Figure 1. Binocular M18 with equipment 6650-863-5657 in carrying case 6650-850-3312

Section II. DESCRIPTION AND DATA

4. Description

a. Binocular M18 (fig. 2) is an infrared viewing device that enables the user to serve enemy targets at night using an infrared radiation source, such as a xenon search light. The binocular consists of two monocular

bodies with independent optical systems and a hinge assembly which joins the two monocular bodies. The interior of the hinge assembly provides