

MIL-B-60884C (AR)
AMENDMENT 2
29 June 1979
SUPERSEDING
Amendment 1
31 January 1979

MILITARY SPECIFICATION

Binocular: M19

This amendment forms a part of Military Specification MIL-B-60884C (MU), dated 28 June 1974.

Page 2

Paragraph 2.1,

DRAWINGS - Add: "C11834885 Reticle Cell Assembly".

PUBLICATIONS - Delete in its entirety.

Page 4

Paragraph 3.14 - Delete and substitute:

"3.14 Parallax.-Parallax between an infinity target image and the reticle shall not exceed 1.5 mils on the optical axis at the 2 mil graduation of the vertical reticle line."

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* Paragraph 3.18.1 - Delete and substitute:

"3.18.1 Eyeiece torque.-The torque required for movement of each eyepiece focus adjustment between settings of minus four and plus four diopters shall be as indicated below for the temperatures specified:

60° to 125°F (15.6° to 51.7°C)
6 to 40 inch-ounces (.432 to 2.88 cm-kg)

-40°F (-40°C)"
6 to 65 inch-ounces
(.432 to 4.68 cm-kg)

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* Paragraph 4.5.2.3.6a - Delete and substitute:

"a. Target collimator.-A 10 inch collimator, conforming to Drawing 10547434, except Reticle Cell Assembly, Drawing 11834885 shall be utilized in lieu of detail #14 depicted on Drawing 10547434. The axis of the collimator shall be established horizontal within 45 seconds of arc. The vertical reticle line of the target collimator shall be plumb during all tests."

Paragraph 4.5.2.3.6.1 - Delete in its entirety.

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* Paragraph 4.5.2.3.6.4 - Delete and substitute:

"4.5.2.3.6.4 Interpupillary adjustment.-The test equipment to test interpupillary adjustment shall consist of a binocular holding device, a translucent light source from two fluorescent tubes of 4 watts each, with a reflector, a transparent or translucent millimeter scale and a holding device for the scale. The binocular holding device shall maintain the axis through the binocular hinge sleeve horizontal within five degrees. The translucent light source shall be positioned incident to the binocular objectives. The holding device for the millimeter scale shall be capable of securely holding the scale in the plane containing the image of the exit pupils of the binocular."

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* Paragraph 4.6.10 - Delete and substitute:

"4.6.10 Resolution.-The test equipment utilized for this test shall conform to the requirements of 4.5.2.3.6a, b, c, and d. Perform this test with the equipment set-up as shown on Fig. 3. The binocular to be tested shall be set for 65mm interpupillary distance and each binocular eyepiece adjustment shall be set to indicate zero diopter. Each eyepiece adjustment of the double viewing collimator shall be adjusted for best focus of the grid reticle. View through the collimator positioned at

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the right eyepiece of the binocular under test. While viewing through the collimator, adjust the binocular eyepiece for best focus of the Number 6 resolution pattern group appearing on the target reticle located in the 10" Collimator. This resolution pattern group represents 6 seconds of arc. Any change in diopter readings by adjustment of the binocular eyepiece to obtain detectable line structure and proper line count in all four meridians shall be recorded, as measured on the binocular eyepiece diopter scale. The difference between the recorded readings shall not exceed the value specified in 3.12. The above test shall also be performed with the collimator positioned at the left eyepiece of the binocular under test. Resolution of each telescope of the binocular shall conform to the requirements of 3.12."

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* Figure 2 - Delete and substitute new Figure 2.

* The outside margins have been marked to indicate where additions to the previous amendment have been made. This has been done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in this notation. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content as written irrespective of the marginal notation and relationship to the last previous amendment.

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Preparing Activity

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