

Del Mar Engineering Laboratories

TO: Bob Miljan

NO.: D-110

FROM: Bob Murray

DATE: October 28, 1957

SUBJECT: Proof Reading Operation and Service Manual - D-100A Scorer

There have been some changes since electronic engineering approved Sections 1 and 2.

Section I

There should be shown a waveguide adapter between Item 1 and 2 of Figure 2-1, Page 2. Point 2 (Waveguide) of Figure 2-1, Page 2 routing has been changed. Waveguide is routed along dorsal surface and should be shown routed along ventral surface, therefore, for correct location please refer to present mock-up scorer or production scorers. Antenna casting bracket is not identified. Camera tripod plate to strike lens bracket not shown the way it is presently notched out to take ventral waveguide.

Section II

The sentence - "Reinforced areas are provided for sway braces and cradleing in accordance with military specification MIL-A-8591 (General Design Criteria for Airborne Stores and Associated Suspension Equipment." is not correct. No provision has been made for this allowance. The sentence - 2.15 - "The antenna beam width is approximately 25° in both the azimuth and elevation planes with directivity of 1.75 d.b.", - should be 17.5 d.b.

Section III

Table 1.

Change current title to voltage and current. In Table 1 point (f) should go between point (c) and (d) because running of the camera when loaded with the prism will damage the gear cog train. Suggest that warning be placed in book to indicate this.

Blanks remain to be filled in on page 20, but information is not available at this time.

3-13. Page 28. Sentence which reads "The result is multiplied times 8 feet which is the actual target length". Suggest this should read - Rocket range in feet is directly proportional to product of target length and separation of rocket centroid to target center on film and inversely proportional to photographed length of target.

$$R \text{ (Range in Feet)} = \frac{L \text{ (Target fitted to Length)} \cdot S \text{ (Film Separation)}}{l \text{ (Target Film Length)}}$$

Comments

Aside from the small technical changes. It looks very excellent!!

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We have about ten pages written on trouble shooting which is being used for a check-out procedure. This will be changed for information required in Section 5.

R. E. Murray, E.E.

REM/k
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