

NASA TECH BRIEF



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Training Manual on Optical Alignment Instruments

Training Manual RQA/M5, entitled *Optical Alignment (Basic)*, provides a basic course of instruction in the use of optical instruments (optical tooling) for precise dimensional control and alignment of structural elements and assemblies, such as associated with space vehicles, aircraft, ships, and buildings. Optical tooling includes instruments such as alignment telescopes, transits, optical sight levels, and theodolites. Information in this profusely illustrated manual is presented under the following chapter headings:

- Introduction
- Optical Principles
- Care and Handling of Optical Instruments
- Alignment Telescopes
- Optical Sight Levels
- Jig Transits and Transit Squares
- Auto-Reflection, Auto-Collimation, Collimation, Collineation
- Theodolites
- Collimators
- Tooling Bars
- Glossary of Optical Tooling Terms

Note:

The Training Manual RQA/M5 is available from:
Clearinghouse for Federal Scientific
and Technical Information:
Springfield, Virginia 22151
Price \$3.00
Reference: TSP68-10574

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No patent action is contemplated by NASA.
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Training Manual on Control Alignment Instruments

Note

The training manual on control alignment instruments is designed to provide the necessary information for the proper use of these instruments. It covers the theory, construction, and operation of the instruments, and includes a series of exercises to be performed by the student.

The manual is intended for use by students in the training program. It is written in a clear and concise manner, and includes a series of exercises to be performed by the student. The exercises are designed to provide the student with a practical understanding of the instruments and their use.

The manual is divided into several sections, each covering a different aspect of the instruments. The sections are: 1. Introduction, 2. Theory, 3. Construction, 4. Operation, and 5. Exercises. Each section is written in a clear and concise manner, and includes a series of exercises to be performed by the student.

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