



Standard Practice for Functional Inspections and Adjustments of Alpine Ski/ Binding/Boot Systems¹

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INTRODUCTION

Adhering to these guidelines may help reduce the risk of injuries resulting from improper mechanical functioning of releasable alpine binding systems. Skiing involves inherent risks and injury can result from simply falling down, impact with an object, or from many other actions. Many injuries are unrelated to system function and a properly functioning system cannot protect the skier in all situations. Compliance with these guidelines in no way guarantees that injury will be prevented.

1. Scope

1.1 This practice provides procedures for inspection and adjustment of alpine ski/binding/boot systems.

1.2 This practice should be followed for systems, whether newly mounted or previously mounted, when work is performed on the system that may affect its release function, unless otherwise specified by the binding manufacturer in non-rental applications.

1.3 Nonapplicability of this function and release inspection practice to rental shop operations is based upon the existence of applicable ASTM practices.

NOTE 1—Refer to Practice F 1064 for equivalent procedures and tolerances for complete and incomplete rental systems.

2. Referenced Documents

2.1 ASTM Standards:

- E 456 Terminology for Relating to Quality and Statistics²
- F 473 Specification for Binding Mounting Area Dimensions on Alpine Skis and Bindings³
- F 504 Test Method for Measuring the Quasi-Static Release Moments of Alpine Ski Bindings³
- F 939 Practice for Selection of Release Torque Values for Alpine Ski Bindings³
- F 944 Specification for Properties of Adult Alpine Ski Boots³
- F 1061 Specification for Ski Binding Test Devices³
- F 1062 Test Method for Verification of Ski Binding Test Devices³

¹ This practice is under the jurisdiction of ASTM Committee F27 on Snow Skiing and is the direct responsibility of Subcommittee F27.50 on Shop Procedures (Retail and Rental).

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² Annual Book of ASTM Standards, Vol. 14.02.

³ Annual Book of ASTM Standards, Vol. 15.07.

F 1064 Practice for Sampling and Inspection of Complete Alpine Ski/Binding/Boot Systems in Rental Applications³

2.2 ISO Standards:⁴

- 5355 Ski Boots (Size Greater than 220 mm) for Ski Bindings for Downhill Skiing Interfaces
- 8061 Method for the Selection of Release Torque Values
- 8614 Ski Binding—Vocabulary
- 9462 Alpine Ski Binding Safety Requirements and Test Methods
- 11088 Assembly, adjustment, and inspection of an alpine ski-binding-boot system

3. Terminology

3.1 Definitions:

3.1.1 *clean versus lubricated tolerance*—the accepted difference between clean and lubricated test results, defined as not more than 20 % of the clean test, used whenever a functional test for binding-boot compatibility is required (see 6.3).

3.1.2 *clockwise versus counterclockwise tolerance*—the accepted difference between test results about an axis perpendicular to the plane of the ski, usually from the toe piece component, and defined as within the inspection tolerance.

3.1.3 *corrective action*—procedures other than readjustment of the visual indicator setting (see 3.1.11) to include repair or replacement of system components.

3.1.4 *deviation*—the difference between the test result (see 3.1.16) and the selected reference torque value (see 3.1.12), usually expressed as a percentage of the selected reference torque value.

3.1.5 *in use tolerance*—the accepted difference between the reference torque value and the test result(s), defined as ± 30 % of the reference torque value, or ± 5 Nm for twist and 20 Nm

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.