



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 [F1064](#) for equivalent procedures and tolerances for complete and incomplete rental systems.

1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

2. Referenced Documents

2.1 *ASTM Standards*:²

[F939](#) Practice for Selection of Release Torque Values for Alpine Ski Bindings

[F1061](#) Specification for Ski Binding Test Devices

[F1064](#) Practice for Sampling and Inspection of Complete

and Incomplete Alpine Ski/Binding/Boot Systems in Rental Applications

3. Terminology

3.1 *Definitions*:

3.1.1 *clean versus lubricated tolerance*—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*—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 [3.1.18](#)) to include repair or replacement of system components.

3.1.4 *deviation*—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*—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 for forward lean, whichever is greater, or two horizontal rows up or down from the selected reference torque value determined on the binding manufacturer's adjustment chart. In the absence of an applicable manufacturer's chart, use [Annex A2](#). For non-rental applications, this tolerance is used as the upper and lower limit for determining if system release values are acceptable for in-use or in-service purposes, after said system has been released to the customer. This limit is derived from Practice [F1064](#), 3.1.1 *Class 1 deviation*. This deviation (± 16 to 30 %, or two horizontal rows up or down from the selected reference torque value) is defined as a minor deviation that

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 For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.