INTERNATIONAL SHOOTING SPORT FEDERATION
INTERNATIONALER SCHIESS-SPORTVERBAND E.V.
FÉDÉRATION INTERNATIONALE DE TIR SPORTIF
FEDERACION INTERNACIONAL DE TIRO DEPORTIVO

Pistol Equipment Control Guide
Compulsory for all Olympic Games, World Championships, World Cups and Continental Championships

Edition 2018

Effective 1 January 2018

Chapters

1. ORGANIZATION OF THE EQUIPMENT CONTROL SECTION

1.1 The Pistol Equipment Control Section should consist of at least two and preferably four qualified Judges.

1.2 The work of the section must be organized on the principle of an assembly line.

1.3 The first member of the section enters all the necessary data on the athlete's Equipment Control Card.

1.4 The second or third member of the section checks the pistols (dimensions, trigger weight, etc.) marks the pistols and countersigns the Equipment Control Cards.

1.5 A third or fourth member controls sponsor markings on the athlete's clothing, shoes and the pistols.

1.6 The work of the Equipment Control Section must be assisted and supervised by an Equipment Control Jury Member as required by ISSF Rule 6.8.

2. TESTING EQUIPMENT

The Pistol Equipment Control Section must have the following equipment:

2.1 Measurement box 420 x 200 x 50 mm for air pistols.

2.2 Measurement box 300 x 150 x 50 mm for center fire and rim fire pistols.

NOTE: A manufacturing tolerance in any Measurement Box of 0.0 mm to + 1.0 mm in each dimension is permitted.

2.3 Weighing scale with a rated capacity of 1,500 g, in 1 g increments.

2.4 Weights for measuring trigger pull (500 g and 1000 g).

NOTE: A weight with a metal or rubber knife-edge with rubber must be used.

NOTE: A roller on the trigger weight is not permitted. A dead weight must be used with no springs or other devices, ISSF Rule 8.4.2.1.

2.5 ISSF approved shoe sole flexibility tester (see Annex A for operating instructions).

2.6 Chronograph for testing the ammunition velocity of pistols and ammunition used in the 25m Rapid Fire Pistol Men event in accordance with ISSF Rule 8.4.4 (see Annex B for velocity testing instructions).

2.7 90° angle template for measuring the heel rest configuration on the grip.

2.8 Copies of the ***ISSF General Technical Rules*** and **Special Technical Pistol Rules** in English and in the host country language (if available).

NOTE: Copies of any errata or relevant rule interpretations from the ISSF website must also be available.

2.9 A list with the names and ISSF ID Numbers of all athletes entered by country in the Pistol events.

2.10 Equipment Control Cards.

2.11 Felt tip marking pens.

2.12 Vernier slide gauge, steel rule of 300 mm graduated in mm.

2.13 Equipment Control Seals or Stickers (preferably serial numbered), not mandatory if ISSF Equipment Control Certificate are used.

2.14 Re-inspection Cards for trigger, shoes and taping.

2.15 ISSF calibration test equipment must be used to check testing instruments before each day of testing and when a disqualification is considered during post-competition testing; ISSF Rule 6.7.6.2 c).

3. CONTROL PROCEDURES

Athletes must present themselves in person at the Equipment Control center with the pistols and all equipment they will use. Athletes must bring the shoes they will wear during the competition to Equipment Control, except the athlete already have an ISSF Equipment Certificate, but he can check voluntary his equipment.

4. POST COMPETITION TESTING

4.1 Post Competition checks must be conducted after Elimination and Qualification competitions and during the reporting time before the finals; ISSF Rule 6.7.9.1. The Equipment Control Jury is fully responsible for the control.

4.2 Shoes, taping, trigger weighting, pistol dimensions and grip, ammunition velocity checks and the weighting of bullets where applicable.

4.3 Trigger controls, Grip and pistol dimension controls in the qualification rounds, should be arranged on the qualification range. Shoe control should be conducted in the main Equipment Control Station. Taping should be conducted close the qualification ranges in a separate closed changing room or closed area.

5. RANDOM CONTROLS

10 m Air Pistol, 25m Pistol

- 1 out of 8 for trigger and grip
- 1 out of 20 for shoes and body taping

10 m Air Pistol, Mix

- 1 team member out of 4 teams for trigger and grip
- 1 team member out of 10 teams for shoes and body taping

25m Rapid Fire Pistol

- 1 per relay for trigger and grip
- 1 per relay for ammunition
- 1 per relay for shoes and taping

50m Pistol

- 1 out of 8 for grip, shoes and taping

EDITION 2018

6. FINALS CONTROLS

All controls must be conducted in the preparation area, and all finalists must be tested.

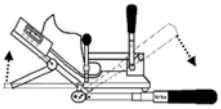
6.1 10m Air Pistol, and all 25m Pistol

All 8 athletes for trigger and grip.

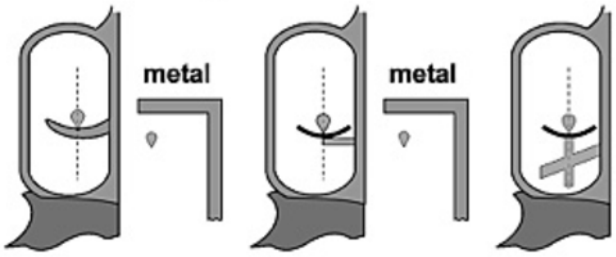
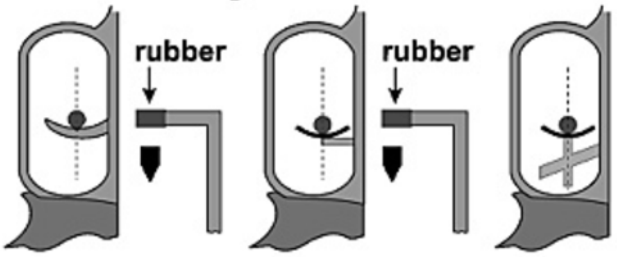
All 8 athletes for shoes and body taping (visually).

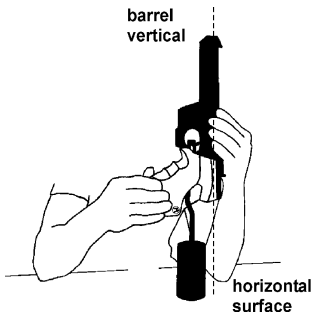
6.2 50m Pistol

All 8 athletes for Pistol Grip, shoes and body taping (visually).

ITEM TO CHECK	CONTROL PROCEDURES	ISSF RULE NUMBER
SHOES		
Shoe Type	Only **low-sided shoes** which do not cover the ankle bone are permitted.	8.5.1
Inner Soles or Inserts	Athletes may use removable inner soles or inserts in the boots or shooting shoes, however, those inserts must be flexible. No inner soles or orthopedic inserts that are made of hard, inflexible plastic or similar materials or that are not flexible at the ball of the foot are permitted. In pre- and post-competition testing, athletes will be asked to remove their boots and inner soles will be checked.	8.5.2
Shoe Sole Flexibility 	Use the Shoe Sole Flexibility Tester (see operating instructions at Annex A) to check the flexibility of the sole of the shoes. The soles of athletes' shoes must bend at least 22.5 degrees when a force of 15 Newton-Meters is applied to the heel area while the boot or shoe is clamped in the testing device.	8.5.3

STANDARDS FOR ALL PISTOLS		
Oscillation Systems	Movement or Oscillation Reduction Systems. Any device, mechanism or system that actively reduces, slows or minimizes rifle oscillations or movements before the shot is released is prohibited.	8.4.1.6
Grips	Neither the grip nor any part of the pistol may be extended or constructed in any way that would allow it to touch beyond the hand. The wrist must remain visibly free when the pistol is held in the normal firing position. Bracelets, wristwatches, wristbands, or similar items are prohibited on the hand and arm that holds the pistol. Adjustable grips are permitted, providing that when adjusted for the athlete's hand they conform to the rules for the event. After the Equipment Control check, the grip adjustment must not be changed in any way that conflicts with ISSF Rules.	8.4.1.1 a) 8.4.1.1 b) 8.12 8.13
Sights	Only open sights are allowed. Sights using fiber optic, light enhancing or reflecting color surfaces are prohibited. Optical, mirror, telescope, laser-beam, electronically projected dot sights etc., are prohibited. Any aiming device programmed to activate the firing mechanism is prohibited. No protective covering is permitted on front or rear open sights.	8.4.1.3 8.12 8.13
Triggers	Electronic Triggers are allowed. All components are firmly attached to and contained within the frame or grip of the pistol; Clarification: The battery and wires are not visible externally;	8.4.1.4

Trigger Pull Test	A weight with a metal or rubber knife-edge must be used. A roller on the trigger weight is not permitted. A dead weight must be used with no springs or other devices.	8.4.2.1
	Metal knife-edge  	
	Rubber knife-edge  	8.4.2.1
	The weight of the trigger pull must be measured, with the test weight suspended near the middle of the trigger (see illustrations) and the barrel held vertically. The weight must be placed on a horizontal surface and lifted clear of the surface. The tests must be conducted by Equipment Control officials. The minimum weight of the trigger pull must be maintained throughout the competition. A maximum of three (3) attempts to lift the weight is allowed. If it does not pass it may only be resubmitted after adjustment. When testing air or gas actuated pistols, the propellant charge must be activated. The trigger pull test should be conducted on the chief range officers table or at the side of the range.	8.4.2

		
Air Pistol		
Pistol Configuration	Any caliber 4.5 mm (.177") compressed air or gas pistol may be used.	8.4.3.5
Pistol Dimensions	Place the pistol in the box (420 mm x 200 mm x 50 mm) and close the cover.	8.12
Trigger Pull Test	Check the trigger pull with the 500 g weight. NOTE: When testing the trigger pull with a compressed air or CO_2 pistol, the propellant charge must be activated.	8.12 8.4.2
Pistol Weight	Weigh the pistol on the scale. The weight must not exceed 1500 g.	8.12
Grips-Additional Restrictions	No part of the grip, frame or accessories may touch any part of the wrist. The heel rest must extend at an angle of not less than 90 degrees to the grip. This applies to the heel rest in front and behind the grip as well as on the sides. Any upward curvature of the heel and/or thumb rest and/or a downward curvature of the side opposite the thumb is prohibited. The thumb rest must allow free upward movement of the thumb. The grip must not encircle the hand. Curved surfaces on the grips or frame, including the heel and/or thumb rest, in the longitudinal direction of the pistol are permitted.	8.12 and drawings 8.13

Specific Standards for all 25m Pistols		
Pistol Configuration	The center line of the bore must pass above the web (between thumb and forefinger) of the hand holding the pistol in the normal firing position.	8.4.3.1.b and drawing 8.13
Pistol Dimensions	Place the pistol in the box (300 mm x 150 mm x 50 mm) and close the cover.	8.12
Pistol Weight	Weigh the pistol on the scale. The weight must not exceed 1400 g. The weight of the pistol must be checked with all accessories, including balancing weights, case catchers and an unloaded magazine.	8.12
Barrel Length	Measure the length of the barrel. Maximum length is 153 mm. Compensators, muzzle brakes, perforated barrels or any device(s) functioning in a similar manner are not allowed.	8.12 8.12
Sight Radius	Measure the sight radius. Maximum length is 220 mm.	8.12
Grips additional restrictions	No part of the grip, frame or accessories may touch any part of the wrist. The heel rest must extend at an angle of not less than 90 degrees to the grip. This applies to the heel rest in front and behind the grip as well as on the sides. Any upward curvature of the heel and/or thumb rest and/or a downward curvature of the side opposite the thumb is prohibited. The thumb rest must allow free upward movement of the thumb. The grip must not encircle the hand. Curved surfaces on the grips or frame, including the heel and/or thumb rest, in the longitudinal direction of the pistol are permitted. In addition, the rear part of the frame or grip which rests on top of the hand between the thumb and the forefinger must not be longer than 30 mm.	8.12 8.13 (drawing)

	This distance is measured at a right angle to the extended center line of the bore.	
Case catchers	Are allowed providing the pistol complies with all the Rules (dimensions and weight) when fitted. This must be marked on the Equipment Control Card.	8.4.1.5
25m Rimfire Pistol		
Pistol Configuration	Only caliber 5.6 mm (.22”) rimfire pistols, except single shot pistols, chambered for Long Rifle cartridges that conform to the specifications in ISSF Rule 8.12 and 8.13 may be used.	8.4.3.2 8.12 8.13
Trigger pull Test	Check the trigger pull with the 1000 g weight.	8.12
Ammunition Velocity Test	FOR 25M RAPID FIRE PISTOL MEN ONLY. One athlete from each relay must be selected for testing the velocity of his pistol ammunition to determine if its velocity exceeds 250 m/sec. Velocity tests must be conducted with a chronograph according to **Annex B, Procedures for Conducting ISSF Rule 8.4.4 Pistol Ammunition Velocity Tests.**	8.4.4 8.4.4.2
25m Center Fire Pistol		
Pistol Configuration	Any center fire pistol or revolver, except a single shot pistol, chambered for cartridges in caliber 7.62 mm to 9.65 mm (.300” - .380”) that conforms to the specifications in ISSF Rule 8.12 and 8.13 may be used.	8.4.3.3 8.12 8.13
Trigger pull Test	Check the trigger pull with the 1000 g weight.	8.12

50m Pistol		
Pistol Configuration	Any caliber 5.6 mm (.22”) rimfire pistol, chambered for long rifle cartridges, may be used. Hand covers for 50 m pistol are permitted, providing they do not cover the wrist	8.4.3.4 8.4.4
Pistol Dimensions	No restriction	8.12
Trigger Pull	No restriction	8.12
Pistol Weight	No restriction	8.12
Grips	Special grips are permitted.	8.12
Barrel Length	No restriction	8.12
Sight Radius	No restriction	8.12

7. ANNEXES

Annex A: Instructions for Conducting Shoe Sole Flexibility Tests for Rifle and Pistol Shoes.

Annex B: Procedures for Conducting Rapid Fire Pistol Ammunition Velocity Tests.