

SECTION THREE

OUTDOOR TARGET

36 OUTDOOR TARGET

36.1 Range Layout

- 36.1.1 The shooting direction is to be within +/- 20 degrees of north in the Northern Hemisphere and of south in the Southern Hemisphere.
- 36.1.2 The grounds and the location of the targets shall provide substantially equal conditions for all competitor's. All competitors shall be accommodated on the same range.
- 36.1.3 The range will be squared off and each distance will be accurately measured from a point vertically beneath the centre (gold) of each target face to the shooting line along the ground. Tolerances on distances shall be +/- 15cm.
- 36.1.4 The targets shall be inclined backwards such that the angle from vertical is about 10 to 15 degrees with all targets appearing uniform
- 36.1.5 Provision will be made for sufficient targets to allow for not more than two competitors per target.
- 36.1.5.1 With one competitor per target the centre of the face will be 130cm (tolerance of measurement will not exceed +/- 5cm) above the ground as measured from an estimated even ground level. The face will be placed in the centre of the target butt (*Refer Section 10, Appendix 8, Target Butt*). The height of the centres of the faces in a line of target butts, on the range should look straight at all times.
- 36.1.5.2 With two competitors per target (two face set-up) the centre of the faces will be 130cm (tolerance of measurement will not exceed +/- 5cm) above the ground as measured from an estimated even ground level. Each of the faces will be placed in its half of the target butt (*Refer Section 10, Appendix 8, Target Butt*) and the minimum distance between the scoring zones of the faces will be 1cm. The height of the centres of the faces in a line of target butts, on the range should look straight at all times.
- 36.1.6 Targets butts shall be spaced such that there is at least 1.5m per competitor per detail per target butt,
- 36.1.7 A point on the shooting line directly opposite each target face will be marked and there shall be a number corresponding to that target face positioned 2m in front of the shooting line.
- 36.1.8 Shooting lanes shall be at right angles to the shooting and target lines, the width of each being sufficient to accommodate all the competitor's on each target butt in each lane which may contain one or two butts. Lanes shall be marked on the ground from the shooting line to the longest distance target line.
- 36.1.9 A target line shall be marked on the ground for:-
 TARGET CROSSBOW; at 45, 55 and 65m distances, parallel to the shooting line
 SPORTING CROSSBOW; at 35, 45 and 55m distances, parallel to the shooting line
 MEDIEVALCROSSBOW; at 20m, 30m, 40m distances, parallel to the shooting line.
- 36.1.10 A waiting line should be indicated at least five metres behind the shooting line
- 36.1.11 An equipment area shall be from the waiting line, to a line 2m behind the waiting line.
- 36.1.12 A spectator line should be indicated at least ten metres behind the waiting line,
- 36.1.13 The field should, be marked or roped-off and only competitor's taking part in the event and persons otherwise authorised shall be allowed to enter. Spectators should be required to be at least ten metres behind the waiting line
- 36.1.14 Where the public has the right of access, suitable barriers must be erected around the range to keep spectators back. These barriers will be at least 18 metres away from the ends of the target line set at the longest distance and may, if desired, reduce in a straight line to a minimum of 10 metres away from the ends of the Shooting Line. This would maintain a margin of approximately 15 metres from the target line when the target butts are moved forward to the shortest distance. The barriers will be at least 10 metres behind the waiting line and as far beyond the target line set at the longest distance to prevent members of the public passing closer than 65 metres behind the target butts. This will create a safety zone increasing to 85 metres when target butts have been moved forward to shoot the shortest distance. The safety distance of 65 metres may be reduced when an adequate backstop, e.g. efficient netting, bank or similar device, is erected (not a hedge or penetrable fence). Such a backstop must be high enough to stop bolts, which have just missed the top of the butt at the longest distance. Consideration should be given to any distractions caused to the competitors by movement of people, etc. behind the butts.
- 36.1.15 Timing lights are to be placed on both sides of the field and, if necessary, in a clear lane in the centre of the target butts so that both right and left handed competitors will be able to see them. They are to be placed in front of the shooting line on each side of the field and in the clear lane at any distance shorter than 30 metres, as long as they are visible to all competitors on the shooting line.
- 36.1.16 A recommended layout for World Outdoor Target Championships Tournaments is shown in Section 10, Appendix 7, Outdoor Target Ground Layout.

36.2 Venue Equipment

- 36.2.1 Targets (Buttresses)
 The buttress shall be large enough to accommodate the target face(s) with a minimum of 1cm extra all round the outside the outermost scoring zone(s), this will ensure that any bolt hitting the butt and just missing the outermost edge of the scoring zone remains in the butt. The butt is to be made from suitable material such that bolts will not ordinarily rebound from, pass through or be damaged by it.
- 36.2.2 The target butt shall be supported and secured on a suitable framework so that its centre is 130 cm ± 5 cm above the average surrounding ground level. The Butts and the framework will be secured to the ground in such a manner as to prevent them from being blown over or collapsing. Where possible care must be taken that bolts which may pass through the butt are not damaged by the supports. (*Refer Section 10, Appendix 8, Target Butt*).
- 36.2.3 The target shall be inclined backwards such that the angle from vertical is about 10 to 15 degrees with all targets appearing uniform.
- 36.2.4 A wind indicator flag shall be fitted to each target, such flags shall be of any light material and preferably yellow in colour and shall be positioned above the centre of each butt high enough to allow a clearance of a minimum of 5cm between the bottom of the flag strips and the top of either the buttress or the target number, whichever is the higher. (*Refer section 10, Appendix 9, Wind indicator*).

- 36.2.5 Target faces shall be numbered. The numbers shall be a minimum of 20cm tall on a background large enough to accommodate them with a border and shall be black figures on a yellow background, alternating with yellow figures on a black background (eg. No. 1 black on yellow, No. 2 yellow on black, etc.). Target numbers shall be affixed above the centre of each target face. (Refer Section 10 Appendix 8, Target Butt).
- 36.2.6 Flags or some other suitable device, shall be provided at the targets and on the shooting line with which competitors and/or scorers can signal for a judge. These flags shall preferably be red in colour.

36.3 Target Faces

- 36.3.1 The standard face shall be divided into five equal concentric coloured rings arranged from the centre outwards as follows; gold (yellow), red, light blue, black and white. Each ring shall in turn be divided by a thin line into two zones of equal width, thus making ten scoring zones. The inner gold zone may be further divided with a line at 50% of the diameter of this zone. Such dividing lines, and any dividing lines which may be used between colours, shall be made entirely within the higher scoring zone in each case.
- Any line marking the outmost edge of the white shall be made entirely within the scoring zone.
- The width of the thin dividing lines as well as the outermost line shall not exceed 2mm.
- The centre of the target face is termed the 'pinhole' and shall be indicated by a small "+" (cross) the lines of which shall not exceed 1mm in width and 4mm in length
- 36.3.2 Recognised target face shall be 60cm in diameter (Refer Section 10, Appendix 11, Target Face).
- 36.3.3 Competitors will be provided with their own individual target face. Each face shall be affixed with a number to indicate the assigned target face to the competitor. The numbers shall be affixed as in rule 36.2.5
- 36.3.4. The target face shall be affixed to the target in such a manner that the face cannot move or contract when hit by a bolt.
- 36.3.5 Target faces may be made of paper, cloth or any other suitable material. All faces shall be uniform and of the same material. Only those faces as approved by the World Crossbow Shooting Association or licensed by the International Archery Association (FITA) shall be used.

Tolerances of measurement

Zone	Diameter in cm 60cm Face	Tolerance +/- in mm
Inner 10	3	1
Outer 10	6	1
9	12	1
8	18	1
7	24	3
6	30	3
5	36	3
4	42	3
3	48	3
2	54	3
1	60	3

Scoring values and Specifications

Scoring Values	Colours	Pantone Scale
10	Yellow	107U
9	Yellow	107U
8	Red	032U
7	Rd	032U
6	Light Blue	306U
5	Light Blue	306U
4	Black	Process Black
3	Black	Process Black
2	White	
1	White	

36.4 Time Control Equipment

- 36.4.1 Acoustic and visual
- 36.4.1.1 The Director of Shooting (*refer article 23*) will control:
- the start and end of each time limit with an audible device.
 - each time limit with digital clocks, lights, flags, plates and/or any other simple visual device in addition to the audible signal referred to above.
- 36.4.1.2 In the event of any discrepancy between the acoustic and the visual time control equipment, the acoustic time control equipment will take precedence
- 36.4.2 The following equipment can be used.
- 36.4.2.1 **Lights**
- The colours of the lights will be red, amber and green in that order with the red at the top. The lights must be synchronised and at no time will two different colours be on at the same time. The lights must be linked with the acoustic equipment so that the first sound of the acoustic equipment is simultaneous with the light turning red and the digital clock reaching zero.
- 36.4.2.2 **Digital Clocks**

When timing is controlled by the use of digital clocks the figures on the clock will be a minimum of 20cm in height and must be able to be clearly read at a distance of 100m. They must be able to be immediately stopped and reset as may be required. The clock must function on a count down principle. All other requirements, e.g. position, number, etc., will be the same as for lights.

When digital clocks and lights are used they must be synchronised. If there is a discrepancy between the digital clock and lights, the digital clock takes precedence

36.4.2.3 **Manual Timing**

When the time limit is controlled manually by means of plates these plates are to be not less than 120cm by 80cm in size. They must be securely mounted to resist any wind and must be easy to turn quickly to show either side. One side of the plates will be striped with 20-25cm wide stripes alternating in black and yellow. The stripes will be at an angle of about 45 degrees to the ground. The reverse side will be all yellow. (*Refer Section 10 Appendix 10, 30 Second Timer Board*).

36.4.2.4 **Emergency Equipment**

When the time limit is controlled by electrical equipment, plates, flags or other simple manual devices must be available in case the electrical equipment fails. Lights and/or digital clocks and emergency equipment are mandatory for WCSA Championships.

36.5 **Miscellaneous Equipment**

The equipment outlined below is mandatory for WCSA Championships and is recommended for other important tournaments.

- 36.5.1 Registration numbers to be worn by each competitor.
- 36.5.2 A raised platform with seating facilities for the Director of Shooting.
- 36.5.3 Loudspeaker equipment, is recommended at large tournaments.
- 36.5.4 Equipment such as Field Telephones, "walkie-talkies" and the like are most useful for communication between officials.
- 36.5.5 A device to indicate the order of shooting; e.g. A B; B A; A B; etc. if the competitors do not all shoot at the same time. The letters will be large enough to be read by all competitors from their respective shooting positions. Two or more of these devices may be needed.
- 36.5.6 Sufficient chairs or benches behind the waiting line for all competitors, Team Captains, Judges and other officials.
- 36.5.7 One large scoreboard for progressive totals after each end, for at least the first eight women and first eight men Juniors, Seniors and Assisted and which indicate the scores
The large scoreboard may be supplemented by displaying the progressive scores of all competitors after each end by a device situated on the ground in front of the target butt.
- 36.5.8 A score board or some other such device with the competitor's name and/ or target number 1A, 1B or simply A, B may be used for displaying progressive total scores after each end. When this device is being used, it will be placed on the ground below and in front of each butt. It must be pegged or fixed securely to prevent movement by wind. It will be changed by the appointed scorer, aided by the competitors on that target butt, after the bolts have been scored and drawn, and before they leave the target butt.

36.6 **Shooting Control and Safety**

- 36.6.1 A Director of Shooting will be appointed. Whenever possible this will be a Judge. He will not participate in the shooting. Assistants may be appointed as necessary at the discretion of the Organising Committee to assist the Director of Shooting in the execution of all the duties.
- 36.6.2 The Director of Shooting will institute and enforce any reasonable safety measures he considers necessary.
- 36.6.3 A competitor arriving after shooting has started will forfeit the number of bolts already shot, unless the Director of Shooting is satisfied that the competitor was delayed by circumstances beyond his or her control. In this case the competitor may be allowed to make up the lost bolts after the distance then being shot is completed, but in no circumstances may that be more than 15 minutes.
- 36.6.4 The Director of Shooting, in consultation with the Judges, has authority, to extend the time limit in exceptional circumstances. Any such special ruling introduced must be announced to the competitors before having effect. In such cases, the final results list must include the special ruling and the reasons for it. When visual time controls are in use, the thirty seconds remains unchanged,
- 36.6.5 Shooting shall not commence unless safety conditions have been endorsed by the Judges and Director of Shooting.
- 36.6.6 The Director of Shooting shall give a fifteen (15), ten (10), five (5) and two (2) minute warning before the start of competition shooting.
- 36.6.7 At the commencement of each end two (2) sound signals for the competitors to occupy the shooting line.
- 36.6.8 The signal to commence shooting shall be one (1) sound signal.
- 36.6.9 The signal to cease shooting and retire to the waiting line shall be two (2) sound signals. When competitors are shooting in details, this is also the signal to allow the next detail to move to the shooting line.
- 36.6.10 The signal to score and collect bolts shall be three (3) sound signals..
- 36.6.11 A series of sound signals shall indicate danger and all shooting must cease immediately on the first sound signal. The signal to resume shooting shall be one (1) sound signal.
- 36.6.12 After the start of an end all shooting shall stop on the first sound signal.
- 36.6.13 Whenever the shooting line is clear, with all competitors having finished shooting their bolts before the end of the time limit, the appropriate signal for change or scoring will be given immediately.
- 36.6.14 No competitor will occupy the shooting line except when the appropriate signal has been given
- 36.6.15 Competitors may NOT span, load and raise or aim the crossbow (it must be pointed at the ground, directed towards the competitors designated target and held in a safe position) while on the shooting line before the commencement to shoot signal (1 blast) is given.

- 36.6.16 A competitor may not span or load a crossbow with a bolt, except when standing on the shooting line and under the control of the Director of Shooting. A competitor may check his/her stance/position on the shooting line, by lifting the crossbow (which is not to be spanned or loaded with a bolt) and shall only aim towards his/her target, but only after being satisfied that the field is clear both in front of and behind the targets. If a competitor, whilst checking his/her stance/position on the shooting line, before the shooting starts or during breaks between distances, loses a bolt, intentionally or otherwise, will be disqualified and removed from the competition on the matter of safety.
- 36.6.17 While shooting is in progress only those competitors whose turn it is to shoot may be on the shooting line. All other competitors shall remain behind the waiting line with their equipment. Spotting telescopes may be left on the line at the discretion of the Director of Shooting.
- 36.6.18 After a competitor has shot his/her bolts, he/she shall retire behind the waiting line with his/her equipment. A competitor confined to a wheelchair may be permitted to remain on the shooting line provided that it does not interfere with the conduct of the Tournament.
- 36.6.19 No competitor or other person may touch the tackle of another without the latter's consent.
- 36.6.20 A competitor shall not be disturbed or approached during shooting except in an emergency.
- 36.6.21 No person shall approach a target or go forward of the shooting line unless the Director of Shooting has signalled permission to do so.
- 36.6.22 To ensure the proper conduct of a tournament and in the interests of safety, the Director of Shooting or Judges may request a competitor to change his/her shooting position on the line or join another target group. If the competitor considers the Director of Shooting or Judges' request to be unreasonable his/her appeal to the Jury of Appeal shall be heard prior to any change in position.
- 36.6.23 Any remark or action made that may cause annoyance or confusion to a competitor or may detract from his/her concentration is un-sportsmanlike and is not allowed. The Judge(s) shall first caution the offender, and if the offence is repeated, may direct him/her to withdraw from the event.
- 36.6.24 In the event of a competitor not being satisfied with a ruling given by the Judges, he or she may, except as provided for in rule 36.10.4 below, appeal to the Jury of Appeal according to rule 20.5.1. Trophies or prizes which may be affected by a dispute will not be awarded until the Jury ruling has been given.
- 36.6.25 Should a target face become unreasonably worn or otherwise disfigured, or should there be any other complaint about range equipment, A competitor or his Team Manager may appeal to the Judges or Director of Shooting to have the defective item replaced or remedied.

36.7 Order of Shooting and Timing Control

- 36.7.1 A shooting time limit shall be applied, such time limit shall be three minutes for TARGET and MEDIEVAL CROSSBOW for three (3) bolts and three minutes for SPORTING CROSSBOW for two (2) bolts. Any bolts not shot after this time shall be lost. If any bolt is shot outside the time limit for an end, the competitor's highest scoring bolt for that end shall be forfeited.
- 36.7.2 When the shooting is controlled by plates: two plates are essential in the clear lane so that the same side of the plates (all yellow or black & yellow stripes) is displayed simultaneously to all competitors. The BLACK and YELLOW striped side will be turned towards the competitors as a signal of warning that only thirty (30) seconds are left of the time limit. The YELLOW side of the plate will be turned toward the competitors at all other times.
- 36.7.3 When shooting is controlled by Lights.
- RED** The Director of Shooting shall give two sound signals for the designated competitors to occupy the shooting line all together.
 - GREEN:** On the lights changing Green (20 10 seconds after the 2 sound signals) the Director of Shooting will give one sound signal for shooting to start.
 - YELLOW** This light will go on when only 30 seconds are left of the time to shoot.
 - RED:** Means that the Time Limit has expired and two sound signals will be given to indicate that the shooting is to stop, even if all bolts have not been shot. Any competitor still on the shooting line, must immediately lower the crossbow, remove the bolt from the bow and the string un-spanned (unlatched and lower the string), and retire behind the waiting line. If shooting in details, the next detail will move up and occupy the shooting line and wait for the Green light, as above for the shooting to begin, the above procedure will be repeated until all have shot. When all TARGET and MEDIEVAL competitors have shot an end of three bolts and SPORTING CROSSBOW Competitors have shot an end of 2 bolts the RED light will come on and three sound signals will be give for the competitors to go forward and score.
- 36.7.4 If shooting in two (2) or more details, 20 seconds is the time allowed for those competitors left on the shooting line to retire and the competitors in the next detail to occupy the shooting line. If all competitors are shooting together in one detail twenty (20) (10) seconds is the time allowed to occupy the shooting line.
- 36.7.5 When the Director of Shooting has ascertained that all competitors have completed shooting and retired behind the waiting line or the time limit has expired, three (3) sound signals will be given as the signal to proceed without undue haste to the targets to score, recover bolts, and return to the waiting line.
- 36.7.6 When all competitors are ready to shoot again the Director of Shooting shall signal the start of the next end with two (2) blasts to move to the shooting line followed by one (1) blast to commence shooting. This method shall continue until the round is completed. After completing the required number of ends at one distance the competitors shall proceed to the next distance.
- 36.7.7 When shooting is suspended during an end for any reason, the time limit will be adjusted according to the number of bolts remaining and the period of time permitted. eg: sixty (60) seconds per bolt for TARGET and MEDIEVAL, ninety (90) seconds for SPORTING.
- 36.7.8 Competitors on a target may be divided into shooting details, for example A,B etc., shooting at different times.

36.8 Shooting

- 36.8.1 Two (2) ends of practice (TARGET and MEDIEVAL 2 x 3 bolts, SPORTING 2 x 2 bolts in 5 minutes) shall be made available to all competitors immediately before commencement of the first scoring end of the event and conducted under the control of the Director of Shooting.
- 36.8.2 There shall be a minimum of 30 minutes break between distance changes.
- 36.8.3 There shall be one end of practice (TARGET and MEDIEVAL 3 bolts, SPORTING 2 bolts in 5 minutes) at each distance change.
- 36.8.4 In the case of several rounds comprising a tournament or event there shall be practice at the commencement of each round
- 36.8.5 When a round is shot over several days there shall be practice available at the commencement of each day.
- 36.8.6 A bolt shall not be deemed to have been shot if
- a) the competitor can touch it with his/her bow without moving his/her feet from their position in relation to the shooting line, in which case another bolt may be shot in its place. If another bolt is not available the competitor may retrieve his/her bolt with the Judges' permission.
 - b) the target face or buttress falls over (in spite of having been fixed and pegged down to the satisfaction of the Judges. In this case, the Judges will take whatever measures they deem necessary and compensate adequate time for shooting the relevant number of bolts. If the buttress only slides down it will be left to the Judges to decide what action to take, if any.
- 36.8.7 In the event of equipment failure the competitor shall step back off the shooting line (approx 0.5m) and at the same time call a Judge using a flag or other device provided for the purpose, or by holding a hand and arm in the air above the head. The competitor will be allowed a maximum of 15 minutes extra time to shoot any make up bolts, TARGET and MEDIEVAL one minute per bolt in 3 bolt ends, SPORTING one and one half minutes per bolt in 2 bolt ends. No extra time will be allowed in the case of a bolt defect (ie. Damaged nock, loose vane etc.)
- 36.8.8 In the event of a competitor being unable to continue shooting because of an unexpected medical problem which occurs after the beginning of the shoot, no more than 15 minutes will be allowed for medical personnel to determine the problem and decide whether or not the competitor is fit to continue competing unassisted. The competitor will make up the appropriate number of bolts at the earliest opportunity under the supervision of the Director of Shooting but has a maximum of 15 minutes to do so.
- 36.8.10 In the event of a competitor leaving bolts on the ground or in the target, they may use others provided they inform a Judge before shooting. In such circumstances, a Judge shall participate in the scoring of that end, making sure that the bolts which remained in the target are checked back to the competitor's score sheet before any bolts are withdrawn from the target.
- 36.8.11 Competitors shall take spare bolts with them to the shooting line and shall not leave the shooting line during their shooting time, except for reasons expressly permitted within these rules.

36.9 Shooting Stance and position

- 36.9.1 During the act of shooting Outdoor Target:
- 1) A PHYSICALLY CAPABLE COMPETITOR, shooting to the general rules of shooting, shall, by standing in an upright standing position;
 - a) either straddle the shooting line with *half of the body and* one foot in front and half the body and one foot behind the shooting line, or
 - b) have both feet on the shooting line.

The Bow must be supported wholly by the competitor. It cannot be supported on a stand nor can any part of the bow touch something to act as a support or steadier
 - 2) A PHYSICALLY HANDICAPPED COMPETITOR, referred to as an Assisted Shooter, must shoot from a chair or stool in such a position that at least half of their body is behind the shooting line.

The Bow may be supported on an approved stand while being shot but it cannot touch anything else, (except the competitor) to act as a steadier. They shall have an assistant. (refer to Section 1, Clause 31)

36.10 Scoring

- 36.10.1 The scoring zone values shall be 10, 9, 8, 7, 6, 5, 4, 3, 2, and 1 from the centre outwards with clear tens (10s) (a 10 not touching the outer 10 scoring zone line) being marked on the score sheet with a circle around it. A miss is marked as an **M X**.
- The clear tens (10s) are used in tie breaking.
- Where partial target faces are in use, the scoring values shall be 10, 9, 8, 7 and 6 from the centre outwards with the same qualification on the clear tens (10s).
- 36.10.2 Neither the bolts nor the face shall be touched until all bolts on that target have been recorded.
- 36.10.3 A bolt shall be scored according to the position of the shaft in the target face.
- 36.10.4 Any competitor on the target shall refer any questions about the value of a bolt in the target to a Judge before the bolts are drawn. The Judge's ruling is final.
- 36.10.5 A mistake on a score sheet discovered before the bolts are drawn may be corrected, but the correction must be made and initialled in red by a Judge before the bolts are drawn. If the bolts have been drawn, no corrections to the bolt values as written on the score sheet shall be permitted. Any other disputes concerning entries on a score sheet shall be referred to a Judge.
- 36.10.6 Should the shaft of a bolt touch two colours, or touch any dividing line between scoring zones, that bolt shall score the higher value of the zones affected.
- 36.10.7 Should a fragment of a target face be missing which includes a dividing line or where two colours meet or if the dividing line is displaced by a bolt, then an imaginary line shall be used for judging the value of any bolt that may hit such a part.
- 36.10.8 Bolts embedded in the buttress and not showing on the face, should only be scored by a Judge.
- 36.10.9 Except as provided for in 36.10.10, if more than three (3) bolts for Target & Medieval and two (2) bolts for Sporting belonging to the same competitor should be found in the target or on the ground in the shooting lanes either in

front of or behind the target, only the three (3) lowest in value for Target & Medieval and two (2) bolts lowest in value for Sporting shall be scored.

Should a competitor be found to repeat this, he/she may be disqualified.

36.10.10 A bolt hitting:

- a) the target and rebounding, the competitor concerned shall complete the shooting of that end, and shall take one step back(approx 0.5m) from the Shooting Line with his free hand held aloft holding the signal flag as a signal to a judge, who shall then carry out the following procedure.

When all the other competitors have completed shooting that end or the time limit has expired, whichever is appropriate, the Director of Shooting shall interrupt the shooting sequence. A Judge, having satisfied himself that the claim was justified, shall allow the competitor concerned to shoot another bolt.

The bolt shall be numbered or marked by the judge in such a way, which will enable it to be identified in the target. At a signal from the Judge, the Director of Shooting shall give the signal for the competitors and scorers to advance to the targets for scoring.

The judge shall participate in the scoring and ensure that the correct number of bolts are scored and that the rebound was not caused by striking another bolt in the target, In such case, 36.10.10 b) will apply,

- b) Another bolt: A bolt laying on the ground in front of the butt which is believed to have struck another bolt already in the target, and rebounded shall score the value of the bolt struck, provided the struck bolt is found in the target with its nock or shaft damaged in a compatible manner.
- c) the target and rebounded from or passed through it is found lying on the ground (when going to score) behind or in front of the target, it shall not be picked up before the Judge(s) have seen it, who being satisfied that the bolt has passed through the target or rebounded from it and not from striking another bolt. In such a case they shall allow the competitor concerned to shoot another bolt, at the end of the next end, as in rule 36.10.10.a) or if it is the last end of a distance before the butts are moved.
- d) the target and hanging from it, shall oblige the competitor on that target to stop shooting and signal in the same way as in 36.8.7. When the shooting of that end has been completed by the other competitors on the line, or the time limit has expired, whichever is appropriate, a Judge shall note the value of the bolt, remove it, and place the bolt behind the target. The remaining bolts shall be shot by the competitor on that target before the Director of Shooting orders general shooting to recommence. The Judge concerned shall participate in the scoring of that end;
- e) another bolt remaining embedded therein, shall score according to the value of the bolt struck.
- f) another bolt, and then hitting the target face after deflection, shall score as it lies in the target face,
- g) a target face other than a competitor's own target face shall not score.

36.10.11 Competitors may delegate the authority to score and collect their bolts to another competitor on their own target or other person provided that they themselves do not go up to the target.

36.10.12 Scorers shall enter on score sheets and in descending order the value of each bolt as called out by the competitor to whom the bolts belong. Other competitors with that scorer shall check the value of each bolt called out. Only bolts scoring ten points shall be referred to as "Golds". Scorers should compare their scores before any bolts are drawn.

36.10.13 On completion of a distance or an event, as required, score sheets shall be signed by the scorer and the competitor, denoting that the competitor agrees with the value of each bolt. If the scorer is participating in the shooting, his score sheet shall be signed by another competitor with the same scorer.

36.10.14 An incorrectly totalled score sheet shall be corrected. Where double scoring is used and a discrepancy between the score sheets is found after bolts have been removed from the target face, the lowest recorded values of the bolts shall be credited.

36.10.15 The Director of Shooting will ensure that, after scoring, no bolts are left in the targets before any signal is given for shooting to recommence. If this inadvertently happens, the shooting shall not be interrupted and the competitor concerned may shoot that end with other bolts after informing a judge, or make up the bolts lost after shooting over that distance has been completed.

In such circumstances, a Judge shall participate in the scoring of that end, making sure that the bolts which remained in the target are checked back to the competitor's score sheet before any bolts are withdrawn from the target.

36.10.16 A scoring board or some such device with the competitors' names and/or target numbers is permitted for displaying progressive and/or total scores after each end.

36.11 Ties

In the event of a tie in score, the results shall be determined as follows:

For individuals-

- a) The competitor, of those tying, with the greatest number of scoring hits.
- b) If this is a tie, then the competitor of those so tying with the greatest number of Centre Tens or Ring Tens.
- c) If this is also a tie, then the competitor of those so tying with the greatest number of golds (hits scoring 10 points).
- d) If this is also a tie, then the competitors so tying shall be declared equal.

For Teams:

- a) The team, of those tying, having the competitor making the highest individual score.
- b) If this is also a tie, then the team of those so tying having the competitor making the second highest individual score.

- c) If this is also a tie, then the teams so tying shall be declared equal.

36.12 Questions, Disputes and Appeals

- 36.12.1 Questions concerning the conduct of the shooting or the conduct of a competitor must be lodged with the Judges before the next stage of the competition
- 36.12.2 Appeals against rulings by the Judges, Director of Shooting or Tournament Officials must be presented in writing to the Jury of Appeal the same day. No appeals can be made against the value of a bolt.
- 36.12.3 Appeals against the conduct of the shooting or the conduct of a competitor shall be lodged in writing with the Judges or Tournament committee the same day.
- 36.12.4 Queries/Questions regarding daily published results shall be lodged with the Organising Committee without any undue delay, and in any event must be lodged in time to allow corrections to be made prior to any prize giving.
- 36.12.5 When the awarding of trophies or prizes may be affected by an appeal or appeals, they shall not be awarded until the Jury ruling has been given.
- 36.12.6 Should a target face become unreasonably worn or otherwise disfigured, or should there be any other complaint about range equipment, a competitor or his Team Manager may appeal to the Judges or Director of Shooting to have the defective item replaced or remedied.
- 36.12.7 Competitors on the target shall refer any questions about the value of a bolt in the target to a Judge before the bolts are drawn.
- 36.12.8 A mistake on a scoresheet discovered before the bolts are drawn may be corrected, but the correction must be made and initialled by one of the Judges before the bolts are drawn. If the bolts have been drawn, no corrections to the bolt values as written on the scoresheet shall be permitted. Any other disputes concerning entries on a scoresheet shall be referred to a Judge.

36.13 Jury of Appeal

For World Championships refer to Section 1, clause 20.

- 36.13.1 A Jury of Appeal of three members shall be appointed by the Organising Committee. Persons participating in the Championships are not eligible for the Jury of Appeal. Members of the Jury of Appeal shall preferably be persons with experience and a good knowledge of the sport and rules. Where a Jury of Appeal has not been appointed, the Organising Committee shall assume this role.
- 36.13.2 Appeals must be presented, in writing, by Team Managers, or appellants if no Team Manager has been designated or they are individual member competitors. No appeal can be made against the value of a bolt. An intention to appeal when it might affect the progression of a competitor from one stage of the competition to the next must be expressed in writing and lodged with the chairperson of the Tournament Judge Commission. The written appeal must be lodged with the Jury in time to allow the Jury to come to a decision before the beginning of the next stage of the competition, before any prize giving, but not later than one hour after the close of the days shooting.
- 36.13.3 The Jury must be available at the Tournament grounds at all times during the Tournament or event (including the day of official practice) until thirty minutes after the end of shooting.
- 36.13.4 Jury decisions shall be minuted and submitted to the appellant, the Chairperson of the Tournament Judge Commission and the Organising Committee before the beginning of the next stage of the competition or before the awarding of prizes. The ruling of the Jury of Appeal shall be final.
- 36.13.5 Appeal Fee
All appeals must be submitted in writing and be accompanied by a fee if one is applied by the Organising Committee (*for World Championships Refer to Section 1, clause 20*). The fee applied shall be returned if the appeal is upheld and shall be retained by the Organising Committee if the appeal is lost.
- 36.13.6 Decisions made by the Jury of Appeal must be documented and submitted to the appellant, the Chairman of the Judges Commission and the Chairperson of the Organising Committee before the awarding, of prizes or the next stage of the competition as the case may be. This terminates the path of appeal.

36.14 Director of Shooting

- 36.14.1 A Director of Shooting and a Deputy will be appointed.
- a) Whenever possible they will be Judges. They will not participate in the shooting or have other tasks during the hours of the shooting.
 - b) Assistants may be appointed as necessary at the discretion of the Organising Committee to assist the Director of Shooting and the Deputy in the execution of all their duties.
- 36.14.2 The Director of Shooting will institute and enforce any reasonable safety measures he/she considers necessary, his/her duties include,
- a) Controlling the shooting, regulating the timing of ends, and the order in which the competitors will occupy the shooting line.
 - b) Exercising control over the use of the loudspeaker equipment, the activities of photographers, news media etc., so that competitors are not disturbed. The Organising Committee shall appoint a person to look after the Media.
 - c) Ensuring that spectators remain behind the barriers enclosing the shooting range.
 - d) In the case of an emergency giving a series of not less than five sound signals for all shooting to cease. If shooting is suspended during an end for any reason, one sound signal will be given for shooting to re-continue;

36.15 Judges

36.15.1 The Judges' duties are to ensure that the tournament is conducted according to the World Crossbow Shooting Association Constitution & Rules, and in fairness to all competitors.

36.15.2 Where possible at least one Judge for every ten target butts in Outdoor Target will be appointed. However there must always be a minimum of three judges. Their duties will be as follows:

36.15.2.1 They will;

- a) check all distances and the correct layout of the range;
- b) check the dimensions of target faces and target butts;
- c) check that the faces are set at the correct height from the ground or floor,.
- d) check that all butts are set at a uniform angle.
- e) check all the necessary venue equipment;
- f) check all competitors' equipment before the Tournament (time to be stated on the tournament program) and at any time thereafter during the Tournament,
- g) control the conduct of the shooting;
- h) control the conduct of the scoring;
- i) verify the scoring in the Elimination and Finals Rounds
- j) consult with the Director of Shooting on questions, which arise regarding the handle any disputes and appeals which may arise and, where appropriate, pass them on to the Jury of Appeal;
- k) in liaison with the Director of Shooting, interrupt the shooting if necessary, use of weather conditions, power failures, a serious accident, or other occurrences, but to ensure if at all possible, that each day's program is completed on that day,
- l) consider relevant complaints or requests from Team Managers and where applicable to take suitable action. Collective decisions will be made by a simple majority of votes. In case of a tie, the Chairman will have a tie-breaking vote;
- m) deal with questions concerning the conduct of the shooting or the conduct of a competitor. These questions must be lodged with the Judges without any undue delay and in any event must be lodged before the prize giving. The ruling of the Judges or Jury of Appeal, as applicable, will be final.
- n) make sure that at no time will any equipment failure delay the tournament by more than 15 minutes
- o) control that all competitors and officials conform with the World Crossbow Shooting Association Constitution and Rules as well as decisions and directives the Judges may find necessary to make. A competitor proved to have transgressed any rules and regulations knowingly may be ruled to be not eligible to participate and be eliminated and will lose any position he/she may have gained.

SCHEDULE 1 - OUTDOOR TARGET ROUNDS:

Round	Total Bolts	70m	65m	60m	55m	50m	45m	40m	35m	30m	20m	Possible Score
WORLD CHAMPIONSHIP ROUNDS												
TC 900 (Target)	90		30*		30*		30*					900
SC 600 (Sporting)	60				20*		20*		20*			600
MC 900 (Medieval)	90							30*		30*	30*	900
Match-play (Target)	9 (per match)				9*							90
Match-play (Sporting)	6 (per match)						6*					60
Match-play (Medieval)	9 (per match)									9*		90
MISCELLANEOUS ROUNDS												
Pacific	90			30*		30*		30*				900
Atlantic	60						30*			30+		600
Mediterranean	30		30*									300
Baltic	30				30+							300
Great Southern	30						30+					300
TC 960	96	24*		24*		24*		24*				960
International	144	36*		36*		36+				36+		1440

Legend: * 60cm Multi coloured target face
+ 40cm Multi coloured target face - Triple or vegas type faces permitted to avoid bolt damage

The TC 900, SC 600, MC900 and the Match-play are the only rounds which can be shot for world records or World Crossbow Shooting Association Stars. The other rounds are listed to give a variation of shoots, which members may shoot if they want to shoot something different.