

# **Riddell®**

## **SPEEDFLEX DIAMOND**



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**FITTING INSTRUCTIONS**  
**HELMET CARE GUIDE**

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## **FITTING INSTRUCTIONS**

## **HELMET CARE GUIDE**

**R41175 SpeedFlex Diamond**  
**R61175 SpeedFlex Diamond InSite**  
**R41178 SpeedFlex Diamond Youth**  
**R61178 SpeedFlex Diamond Youth InSite**

**MAINTENANCE AND CORRECT FITTING IS ESSENTIAL TO THE USE OF ALL  
PROTECTIVE EQUIPMENT. FOOTBALL HELMETS MUST BE FITTED AND PROPERLY  
MAINTAINED IF THEY ARE TO SERVE THE PLAYER.**

**INSPECT HELMET BEFORE EACH USE.**

For patent information visit [www.Riddell.com/Patents](http://www.Riddell.com/Patents)

# FITTING INSTRUCTIONS

## CHECKING HEAD SIZE

- 1) Wrap a cloth measuring tape around the circumference of the head.
- 2) Measure with tape approximately 1" above the eyebrows (Figure 1).
- 3) Refer to Riddell's size chart below.
  - a) Chart is provided as a guide.
  - b) If measurement falls between helmet sizes, start with the smaller size.

HAT SIZE	CIRCUMFERENCE (IN)	CIRCUMFERENCE (CM)
6 1/2 - 6 3/4	20 3/8 - 21 1/8"	52 - 54cm
> 6 3/4 - 7	> 21 1/8 - 22"	> 54 - 56cm
7 - 7 1/4	22 - 22 3/4"	56 - 58cm
> 7 1/4 - 7 1/2	> 22 3/4 - 23 1/2"	> 58 - 60cm
7 1/2 - 7 3/4	23 1/2 - 24 1/4"	60 - 62cm
> 7 3/4	> 24 1/4"	> 62cm

Figure 1



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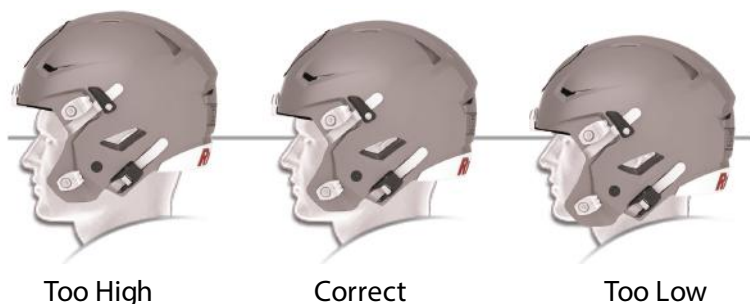
## FITTING SPEEDFLEX DIAMOND HELMETS

SpeedFlex Diamond helmets are designed with fitted liner systems and require no air inflation to achieve proper fit. If adjustment to the fit in the jaw area is necessary, Riddell offers four Face Frame sizes: 3/4", 1", 1 1/4" and 1 1/2". (Contact Riddell Customer Service)

### FIT GUIDE

- 1) Confirm player hat size.
- 2) Put on corresponding SpeedFlex Diamond helmet.
- 3) Check fit.
  - a) If helmet is too high, try a larger size.
  - b) If helmet is too low, try a smaller size.
  - c) Confirm comfortable, snug contact with jaw area.
- 4) Utilize the four Face Frame size options to achieve comfortable, snug contact.

*Figure 2*



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# SPEEDFLEX DIAMOND LINER ATTACHMENT POINTS

Figure 3



Crown Pad



Back/Occipital Lock



Face Frame Pads  
(Left/Right)

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## ADJUSTING TOP CHIN STRAP

- 1) Loosen, but do not remove Strap•Loc screws.
- 2) Have player hold chin cup centered & firmly on chin.
- 3) Glide upper straps through the Strap•Loc to tighten. (Figure 4)
- 4) Tighten Strap•Loc screws.

*Figure 4*



## ENGAGING CAM•LOC

- 1) Pull bottom straps toward rear of head (Figure 5) until chin cup is secure on chin.

*Figure 5*



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## CONFIRM PROPER FIT

- Never wear a helmet positioned too high or too low (refer to page 5, Figure 2).
- Front of the helmet should be approximately 1" above the player's eyebrows.
- All liners should be in contact with player's head (Figure 6):
  - Interlock hands on top of helmet and press down.
- For a snug, comfortable fit, the skin of the forehead should move with the Front Pad when the helmet is turned side-to-side.

*Figure 6*



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## RELEASING BOTTOM STRAPS + TAKING OFF HELMET

- 1) Position index fingers over the levers located on the Cam•Loc housing on each side of the helmet (Figure 7).
- 2) Press down and hold the lever.
- 3) Use thumbs to push the chin cup forward away from the chin to relax the lower straps. Straps will remain within the Cam•Loc housing.

*Figure 7*



- 4) With bottom straps loosened and relaxed, lift helmet up and off the head (Figure 8).

*Figure 8*





# HELMET CARE GUIDE

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## REMOVING/ATTACHING LINER ATTACHMENT CAPS

Liner Attachment Caps allow for liners to be quickly attached or removed from the helmet.

### Removing Liner Attachment Cap(s):

- 1) Turn Liner Attachment Cap counter-clockwise using a flathead screwdriver (Figure 9).
- 2) Pull cap away from helmet, liner can be removed from the interior of the shell (Figure 10).

*Figure 9*



### Attaching Liner Attachment Cap(s):

- 1) Center liner valve in proper hole in the helmet shell.
- 2) Place Liner Attachment Cap over hole on outside of the shell.
- 3) Secure valve with Liner Attachment Cap using a flathead screwdriver and turning it clockwise.
- 4) Ensure the liner is secure by pulling on it from the inside of the helmet.
- 5) If secure, do not tighten any further; overtightening may damage the Liner Valve stem.

*Figure 10*



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## REMOVING FACE FRAME PADS

- 1) Unscrew Face Frame Attachment Cap (Page 6, Figure 3) from outside of shell.
- 2) Peel Face Frame Pad back to separate Velcro attachment.
- 3) Pull Face Frame Pad from shell.

## REATTACHING FACE FRAME PADS

- 1) Place Face Frame Pad in helmet, align attachment stem with appropriate hole in helmet shell (Page 6, Figure 3).
- 2) Screw Liner Attachment Cap to secure Face Frame Pad (Page 10, Figure 10). Do not over tighten.

## REMOVING SPEEDFLEX DIAMOND LINER SYSTEM

- 1) Remove Face Frame Pads.
- 2) Unscrew Crown Pad and Back/Occipital Liner Attachment Caps (Page 6, Figure 3) from outside of shell.
- 3) Rotate Liner System out of shell to disengage Velcro attachments.
- 4) Pull Liner System from shell.

## REPLACING LINER SYSTEM COMPONENTS

- 1) Remove component (Front Pad, Crown Pad, Side Pads, Back/Occipital Pad) from Liner System connector.
- 2) Replace desired component.
- 3) Reattach Liner System connector(s).

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## REATTACHING LINER SYSTEM COMPONENTS

- 1) Rotate Liner System into shell.
- 2) Center liner attachment stem in proper holes in helmet shell.
- 3) Engage Velcro.
- 4) Screw Liner Attachment Caps to secure Liner System.

## REMOVING CHIN STRAPS

- 1) Loosen, but do not remove, Strap•Loc screws.
- 2) Pull upper strap through Strap•Loc.
- 3) Turn Thumb Screw (located behind the Cam•Loc housing, Figure 11) counter-clockwise to loosen the screw.
- 4) A 15/16" socket or Riddell Quick Release™ tool (Riddell catalog #R2764022) can be used to loosen the Thumb Screw.
- 5) Pull Cam•Loc housing away from exterior of shell.

*Figure 11*



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## REPLACING CHIN STRAPS

- 1) Loosen, but do not remove, the screw on the Strap•Loc.
- 2) Twist upper straps 180 degrees as shown in Figure 12.
- 3) Thread upper straps through Strap•Loc; once in desired position, tighten Strap•Loc (Page 7, Figure 4).
- 4) Center Cam•Loc housing over the rectangle-shaped cutout on the exterior of the shell (Figure 13).
- 5) Align the Thumb Screw from interior side of shell with the underside of the Cam•Loc housing (Figure 11).
- 6) Turn Thumb Screw clockwise and tighten by hand.
- 7) A 15/16" socket or Riddell Quick Release™ tool (Riddell catalog #R2764022) is used to further tighten Thumb Screw.

Figure 12



Figure 13



Cam •Loc Housing

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## HELMET CARE:

### CLEANING AND POLISHING HELMETS

Use only Riddell helmet cleaner and/or wax. Commercial cleaners and polishers may damage the shell or liner system.

- Helmet Care Kit (Riddell catalog #R27503)
  - Available for regular maintenance.
  - Read instructions carefully.
  - Keep away from children.

### PAINTING RIDDELL HELMETS

Use only Riddell paint systems. Commercial paints may damage varsity helmet's polycarbonate alloyed polymer material or youth helmet's ABS plastic material. Failure to comply may compromise the shell's integrity and void shell warranty.

## HELMET WARNINGS

### WARNING

#### **NO HELMET CAN PREVENT THE SERIOUS HEAD OR NECK INJURIES A PLAYER MIGHT RECEIVE WHILE PARTICIPATING IN FOOTBALL**

Do not use this helmet to butt, ram or spear an opposing player. This is in violation of football rules and such use can result in severe head or neck injuries, paralysis or death to you and possible injury to your opponent.

Contact in football may result in **CONCUSSION-BRAIN INJURY** which no helmet can prevent. Symptoms include: loss of consciousness or memory, dizziness, headache, nausea or confusion. If you have symptoms, immediately stop playing and report them to your coach, trainer and parents. Do not return to a game or practice until all symptoms are gone and you have received **MEDICAL CLEARANCE**. Ignoring this warning may lead to another and more serious or fatal brain injury.

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- 1) Helmet must be properly fitted. See instructions.
  - 2) Do not modify, change or alter helmet in any way.
  - 3) Do not remove labels on helmet.
  - 4) Helmet protection could be reduced by common substances without damage visible to the user. It is recommended that user employ only factory orized paints, cleaners, waxes, adhesives, guards and attachments as instructed.

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## HELMET WARRANTIES

The warranty on helmet shells is five (5) years for polycarbonate varsity helmets and three (3) years for ABS youth helmets, provided there has been normal use and proper maintenance. It is recommended that your helmet be reconditioned every year by a Riddell Factory Authorized Reconditioner. Proper maintenance requires reconditioning of your helmet at least every two (2) years by a NOCSAE Licensed Reconditioner using only new factory replacement liners (if required) in the reconditioning process. Evidence of any of the conditions will void this warranty:

- 1) Failure to have the helmet reconditioned at least every two (2) years by a NOCSAE Licensed Reconditioner.
- 2) Installation of used parts instead of new parts whenever a liner replacement is necessary.
- 3) Where shells have been damaged by a chemical reaction from the use of incompatible materials such as:
  - a) Attachment of a guard, facemask or component of another manufacturer or mismatched material.
  - b) Use of cleaners, waxes or paints of another manufacturer or failure to follow recommended cleaning and painting instructions
- 4) Excessive drilling of holes or drilling any new holes less than 1/2" from each other or the edge of the shell.
- 5) Abusive treatments for any use other than the playing of American football.
- 6) Removal of, or obliteration of, the warranty label, date code, or warning labels.

Helmet component parts are warranted to be free of defects in material and workmanship for a period of one (1) year provided there has been normal use and proper maintenance

This warranty in lieu of all other warranties, expressed or implied whether Statutory or otherwise, including any implied warranties of merchantability or fitness for any particular purpose.

Products covered by these warranties should be returned to the manufacturer, along with evidence of the date of purchase.

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# Riddell®

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