



PREMIUM HELMETS



Brand New CW-1 Visor and Q.R.S.A. System



Development Concept (1)

- 1) To improve upper vision when Pinlock Fog-Free Lens is equipped;
- 2) To secure close contact of a visor and a window beading while a visor is fully closed;
- 3) To realize easy adjustment of a base plate for close contact of a visor; and
- 4) To maintain smooth opening/closing of 2-D visor for racing same as 3-D visor for general use



Development Concept (2)

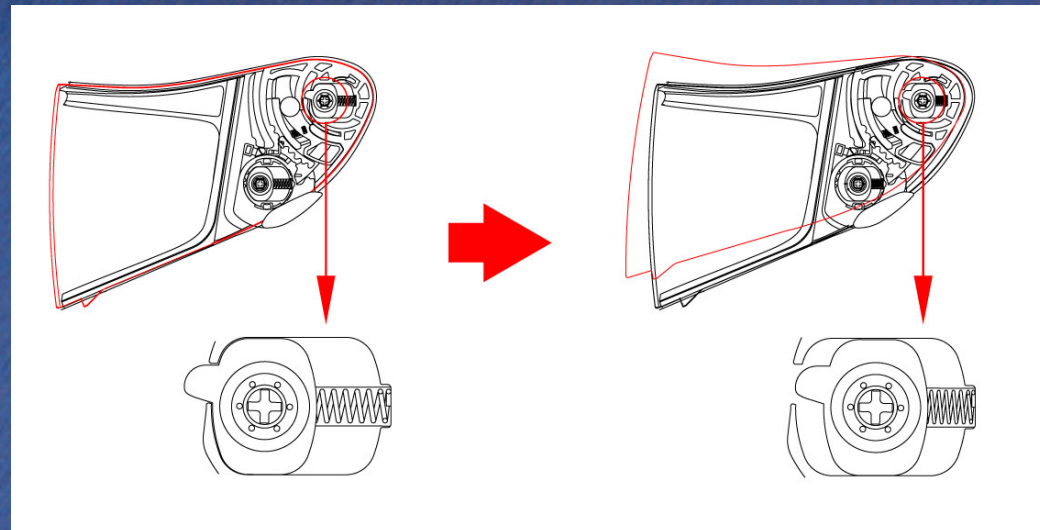
To maintain the merits of current CX-1V

- 1) Easy and firm removing/fixing of a visor by one action;
and
- 2) Elimination of visor's fogging by pre-set opening and a visor lock mechanism by handling of a lever

Q.R.S.A.

Quick Release Self Adjusting System

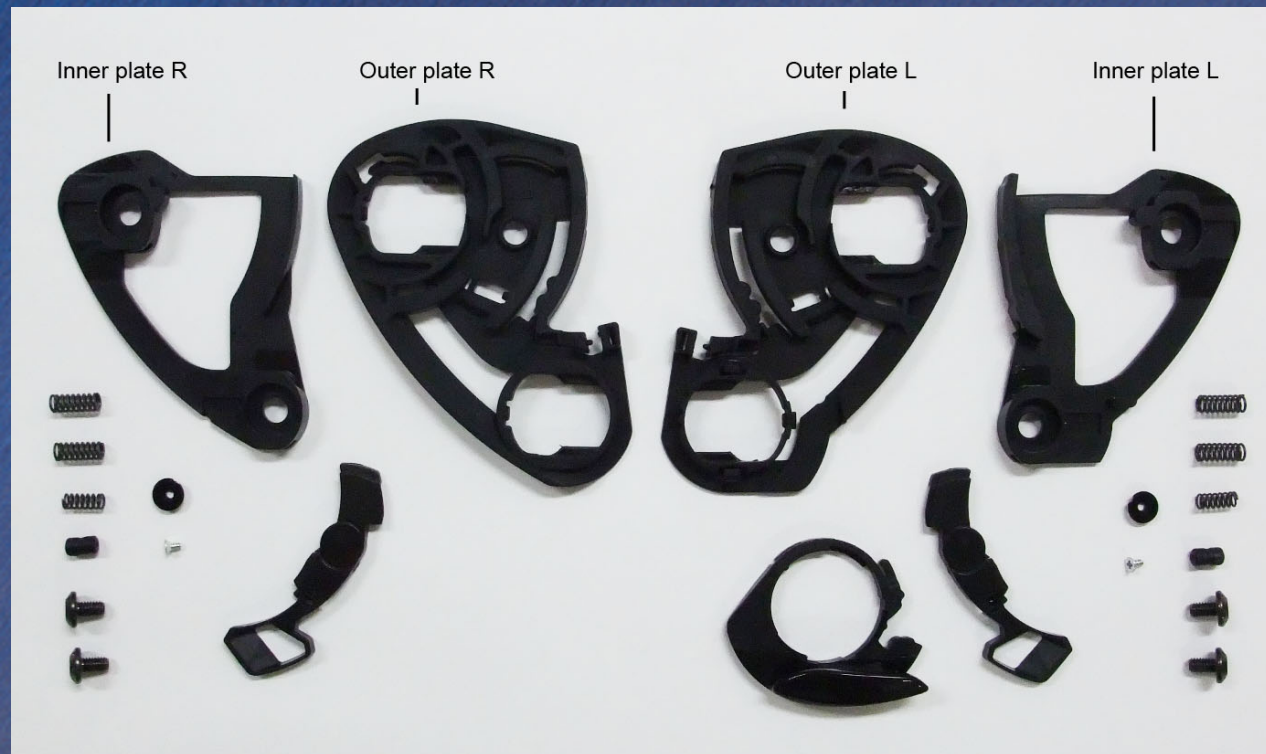
Variable Axis



- We applied in Q.R.S.A. System a variable axis mechanism where an axis is moved front and rear corresponding to opening/closing angles.
- This mechanism made it possible to extend Pinlock Fog-Free Lens upward and improved close contact with a window beading further.

Q.R.S.A. Base Plate

Structure and Components



- A Base Plate consists of an inner plate and an outer plate.
- Sliding of an outer plate to the front and the rear changes position of an axis.

Q.R.S.A. Base Plate

Structure and Components



- Outer plate is pressed rearward by 2 springs, assists close contact of a visor and a window beading

CW-1 Visor



- CW-1 Visor is newly developed.
- Both horizontal and vertical dimensions are enlarged.

Characteristics of Q.R.S.A. + CW-1

Extended Upper Vision of Pinlock Lens



- New shaped Pinlock Lens with extended vision is designed for Q.R.S.A.+CW-1 Visor.



Characteristics of Q.R.S.A. + CW-1

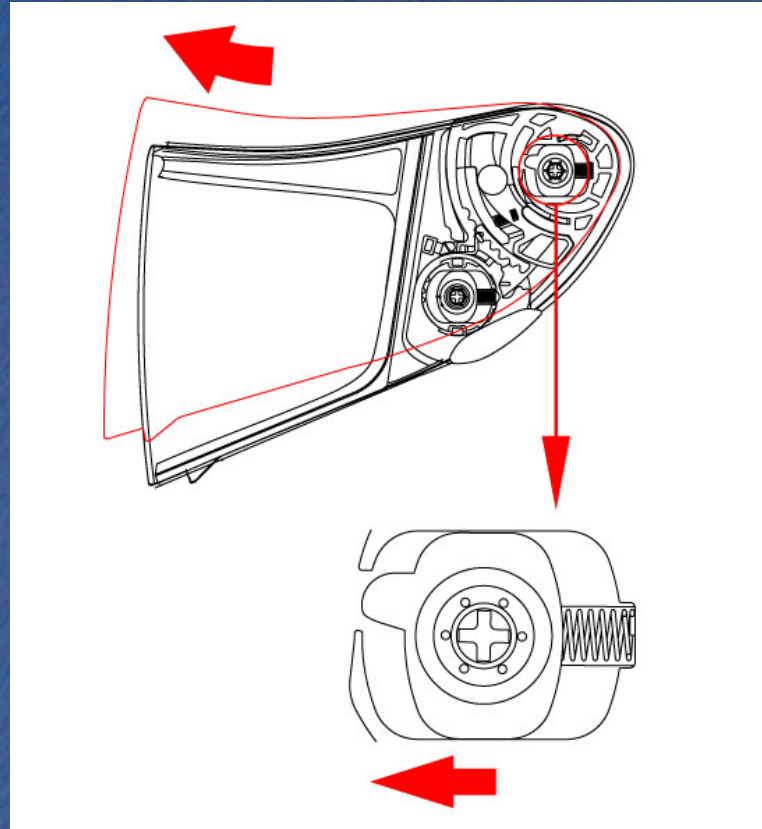
Extended Upper Vision of Pinlock Lens

Solutions

- 1) Control of Visor's Movement by Variable Axis;**
- 2) Application of Rib at Inner Top of Visor to Make Height of Visor's Inner Surface Same as Pinlock Lens;**
- 3) Extension of Visor Upward to Position Top End of Pinlock Lens in Overlapping Portion of Shell and Visor.**

Characteristics of Q.R.S.A. + CW-1 Extended Upper Vision of Pinlock Lens

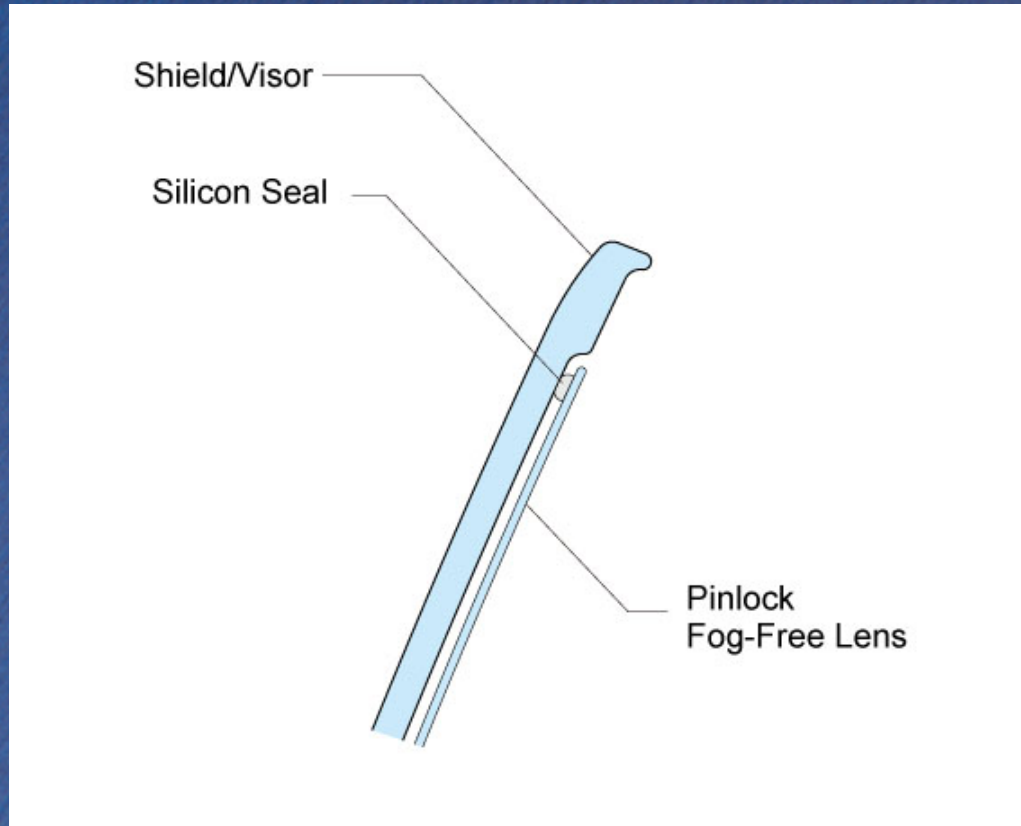
Solutions



1) Control of Visor's Movement by Variable Axis;

Characteristics of Q.R.S.A. + CW-1 Extended Upper Vision of Pinlock Lens

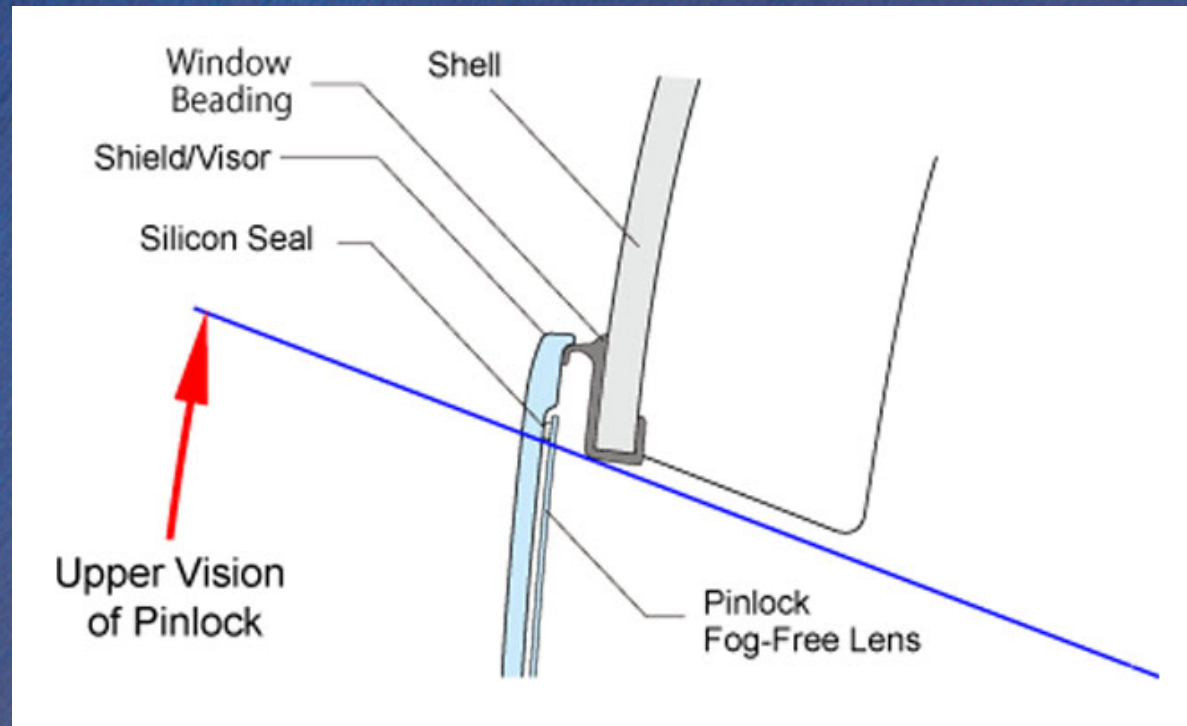
Solutions



2) Application of Rib at Inner Top of Visor to Make Height of Visor's Inner Surface Same as Pinlock Lens;

Characteristics of Q.R.S.A. + CW-1 Extended Upper Vision of Pinlock Lens

Solutions



- 3) Extension of Visor Upward to Position Top End of Pinlock Lens in Overlapping Portion of Shell and Visor.



Characteristics of Q.R.S.A. + CW-1 Extended Upper Vision of Pinlock Lens

As a Result



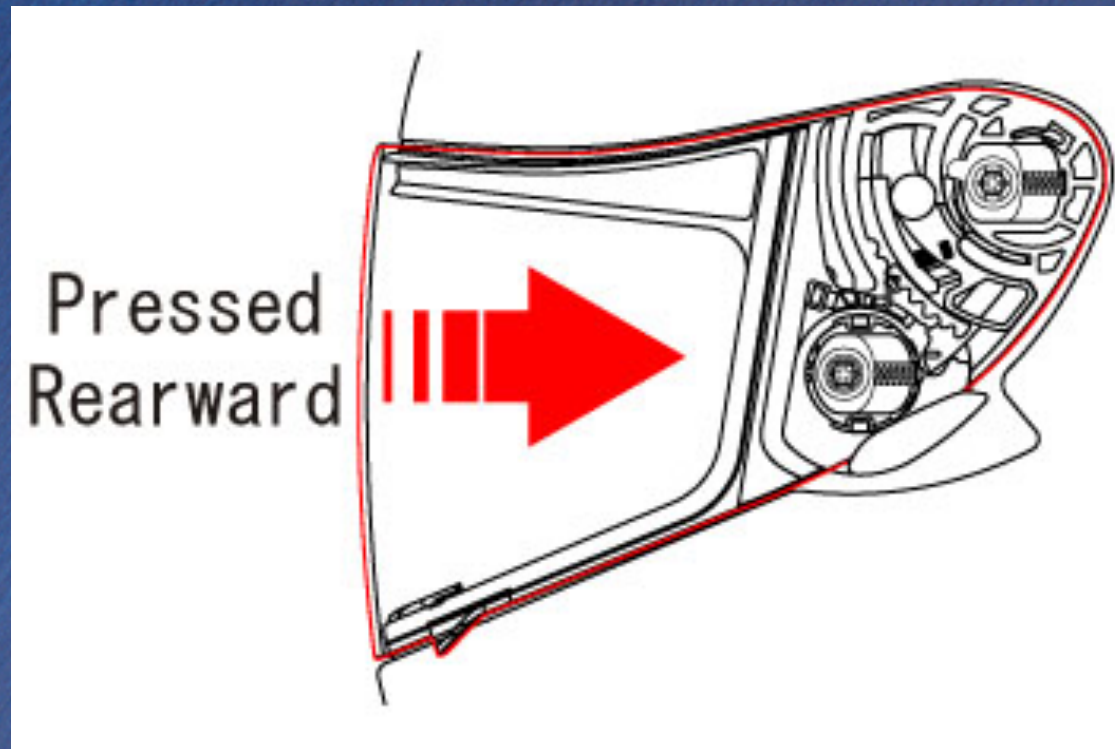
CW-1 Pinlock

CX-1V Pinlock



Characteristics of Q.R.S.A. + CW-1

Improved Close Contact between Visor and Window Beading



- When a visor is fully closed, visor is pressed rearward by 2 springs and they assist close contact between visor and window beading.

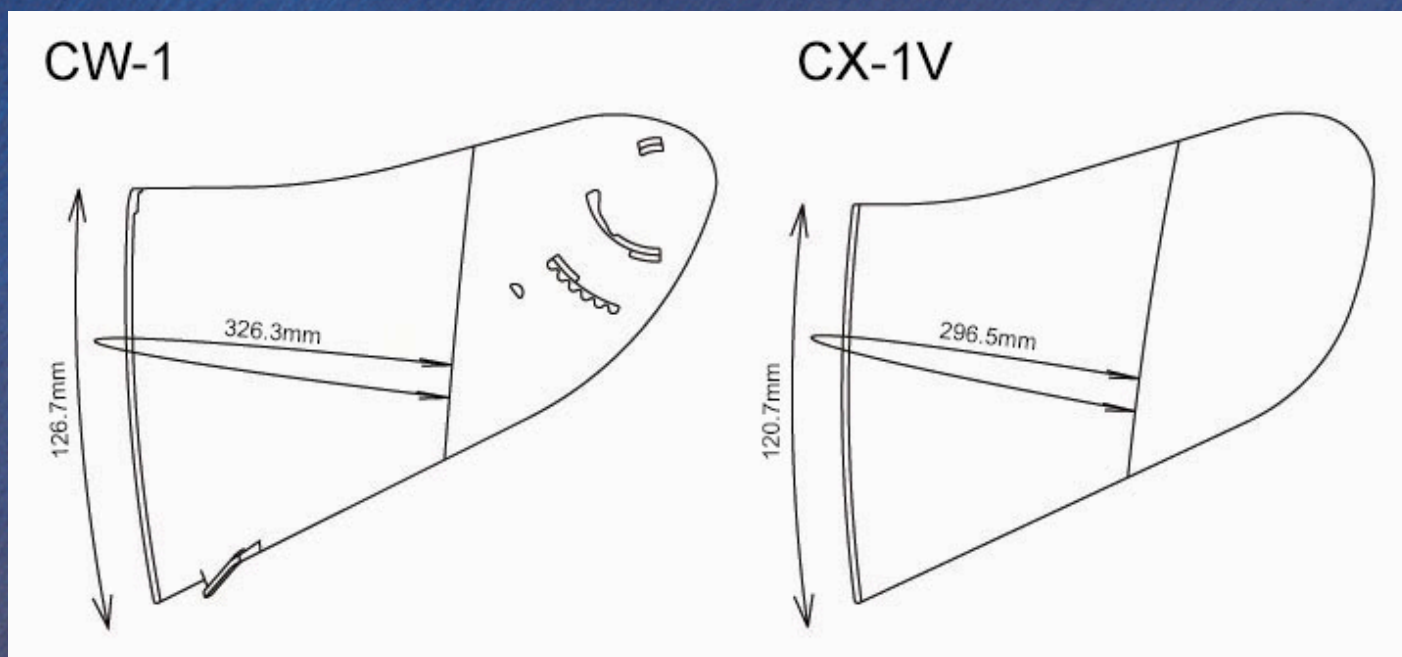


Characteristics of Q.R.S.A. + CW-1

Easy Adjustment of Visor Position

- A careful positioning of screw was required in former base plate for adjustment of a visor position; but
- In Q.R.S.A.+CW-1 Visor, a fully closed visor is always pressed to a direction of a window beading by positioning of a variable axis and springs.
- This self adjustment mechanism allows minor difference and makes the system perform properly.
- Adjustment of a visor position is easy due to this tolerance.

Characteristics of Q.R.S.A. + CW-1 Corresponding to Wider Eye Port

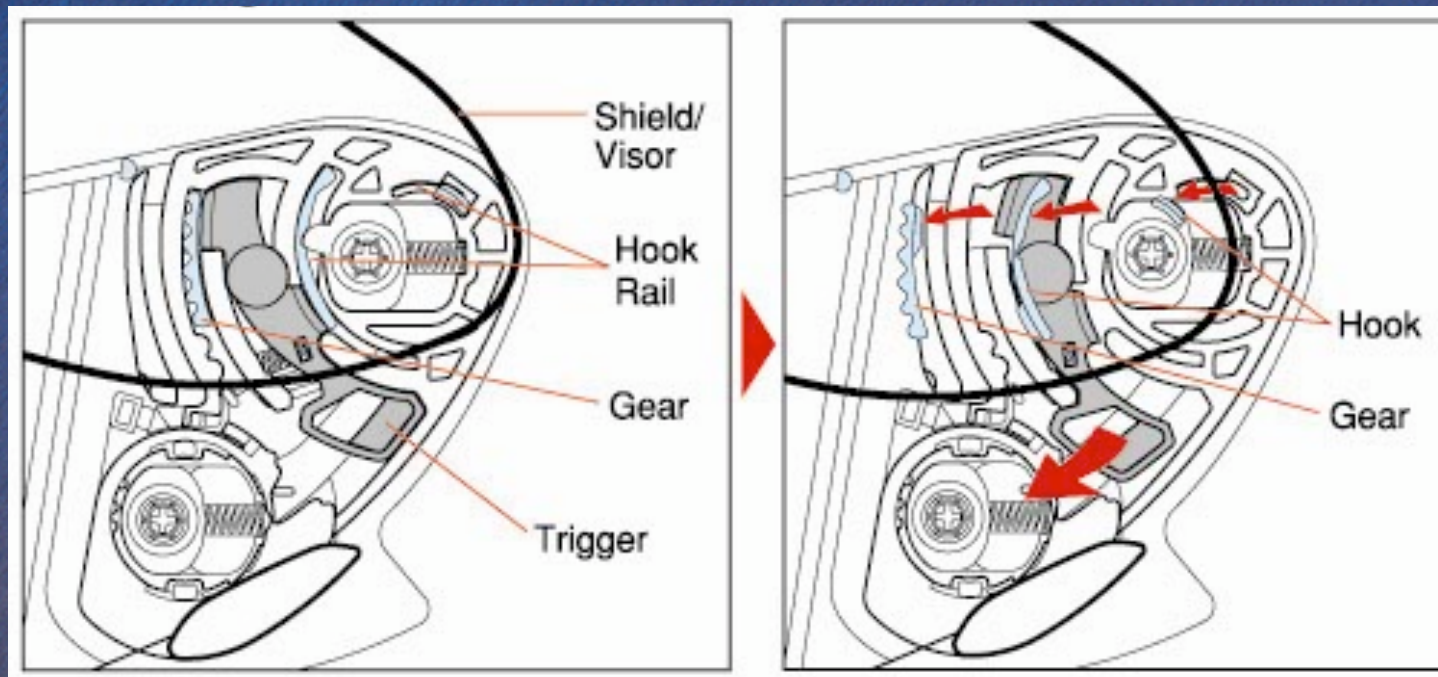


- CW-1 Visor is designed to correspond to a wider eye port compared to a former model.

Characteristics of Q.R.S.A. + CW-1

Easy One Action Visor fixing/Removing

Removing

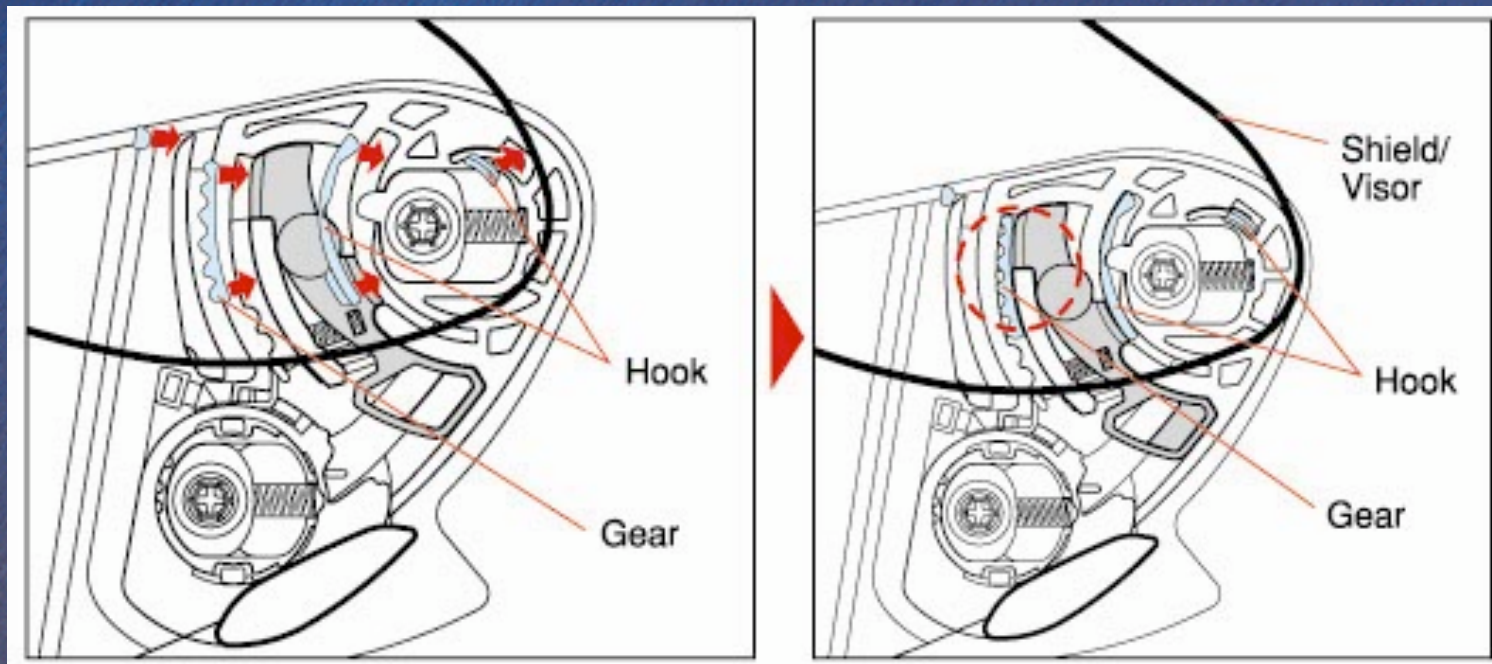


- To remove a visor, just open a visor fully, pull trigger downward and release hook and gear.

Characteristics of Q.R.S.A. + CW-1

Easy One Action Visor fixing/Removing

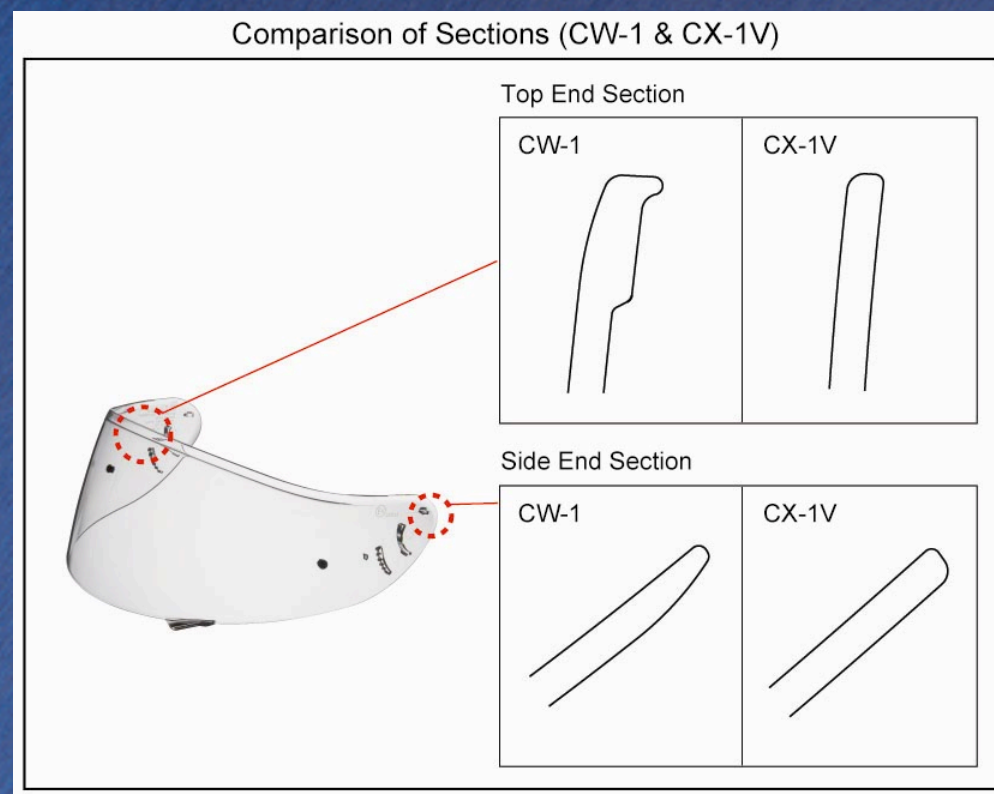
Fixing



- To fix it, press hook and gear to the Base Plate until it clicks in a same fully opened position.

Characteristics of Q.R.S.A. + CW-1

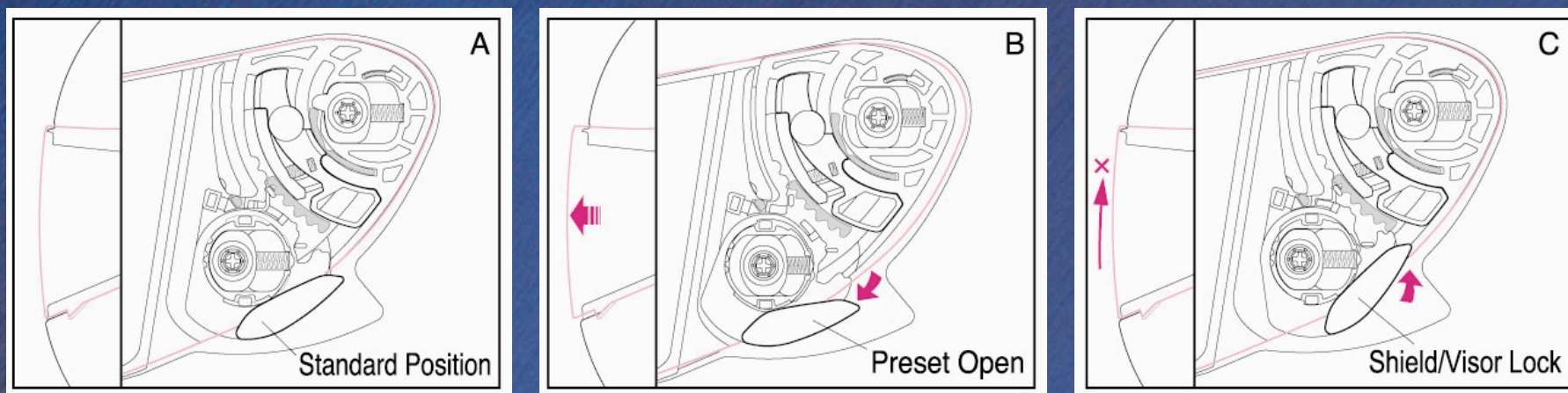
Flush Surface and Round Shape Contributing to Quietness



- A rib at top end of a visor minimizes gap with a shell.
- Thin side ends improves flush surface with a shell.

Characteristics of Q.R.S.A. + CW-1

Preset Opening and Visor Lock



- By moving a lever downward from a standard position, an outer base plate slides forward and creates a slight gap between a visor and a window beading.
- A visor is locked when a lever is moved upward.

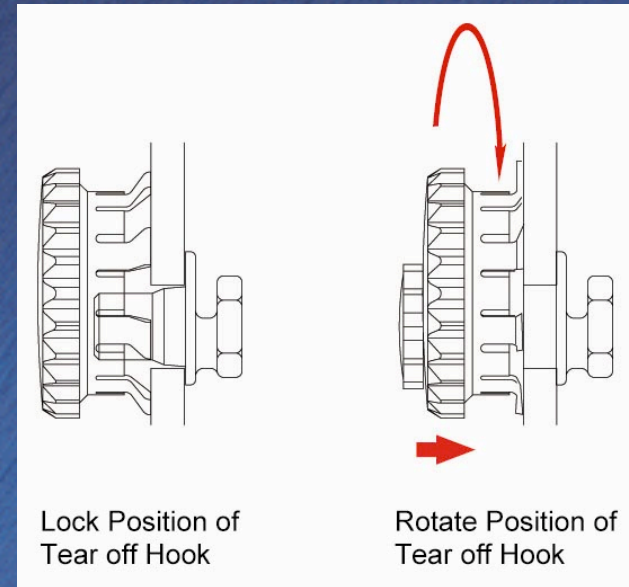
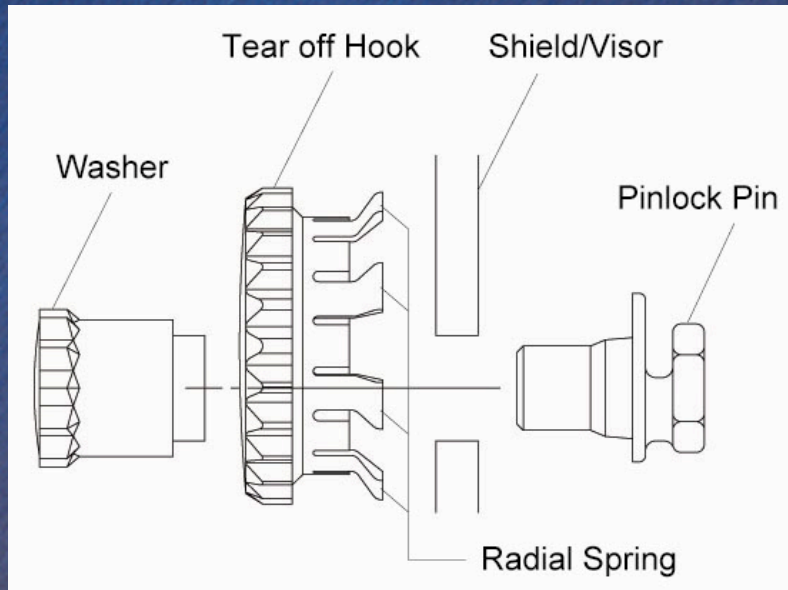


Newly Developed CWF-1 Visor for Races



- An upper vision is secured for CWF-1 same as CW-1 when Pinlock Lens is fixed.

Newly Developed CWF-1 Visor for Races



- Intervention of tear off hooks and Pinlock pins is resolved by use of a single axis component for both pins and hooks.
- Both pins and hooks are in eccentric structure for adjustment of tension and may be adjusted separately.



Line-up

■ CW-1

Clear, Mellow Smoke, Dark Smoke, High Definition,
Half Tinted, Spectra Blue, Spectra Silver,
Spectra Gold, Spectra Fire Orange,

■ CWF-1

Clear, Mellow Smoke, Dark Smoke,