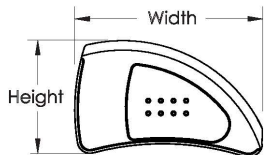
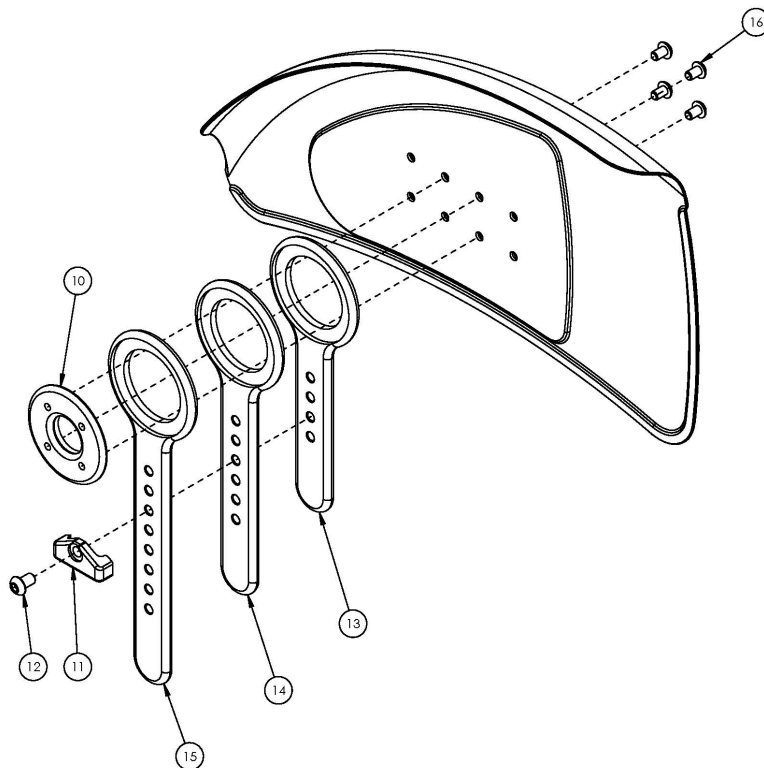
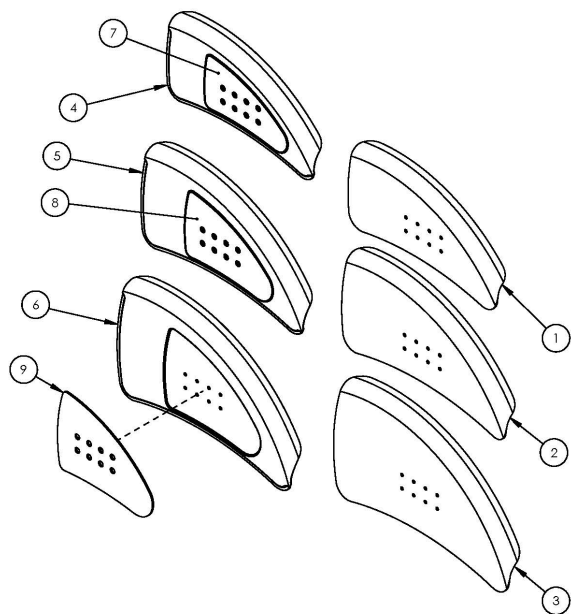


Rigid Adjustable Fender Side Guard



Side Guard	Height	Width
Small	6.5"	12.6"
Medium	7.7"	13.9"
Large	9.2"	14.9"
Small - Short	6.5"	10.6"
Medium - Short	7.9"	11.5"
Large - Short	9.2"	12.3"



If retrofitting, side guard receivers may be required

Item Number	Part Number	Description	Quantity
1a, 1b, 10-13, 16	506715	Carbon Fiber Adjustable Fender Assembly, Small, PAIR	1
1c, 1d, 10-13, 16	506716	Short Carbon Fiber Adjustable Fender Assembly, Small, PAIR	1
2a, 2b, 10-12, 14, 16	506717	Carbon Fiber Adjustable Fender Assembly, Medium, PAIR	1
2c, 2d, 10-12, 14, 16	506718	Short Carbon Fiber Adjustable Fender Assembly, Medium, PAIR	1
3a, 3b, 10-12, 15, 16	506719	Carbon Fiber Adjustable Fender Assembly, Large, PAIR	1
3c, 3d, 10-12, 15, 16	506720	Short Carbon Fiber Adjustable Fender Assembly, Large, PAIR	1
4e, 4f, 7a, 7b, 10-13, 16	506705_ _ _	Aluminum Adjustable Fender w/Foam Insert Assembly, Small, PAIR, Match Frame Color	1
4g, 4h, 7a, 7b, 10-13, 16	506706_ _ _	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Small, PAIR, Match Frame Color	1

Item Number	Part Number	Description	Quantity
5e, 5f, 8a, 8b, 10-12, 14, 16	506709_ _ _	Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, PAIR, Match Frame Color	1
5g, 5h, 8a, 8b, 10-12, 14, 16	506710_ _ _	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, PAIR, Match Frame Color	1
6e, 6f, 9a, 9b, 10-12, 15, 16	506713_ _ _	Aluminum Adjustable Fender w/Foam Insert Assembly, Large, PAIR, Match Frame Color	1
6g, 6h, 9a, 9b, 10-12, 15, 16	506714_ _ _	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Large, PAIR, Match Frame Color	1
4a, 7b, 10-13, 16	107576	Aluminum Adjustable Fender w/Foam Insert Assembly, Small, Right, Black Matte	1
4b, 7a, 10-13, 16	107577	Aluminum Adjustable Fender w/Foam Insert Assembly, Small, Left, Black Matte	1
4a, 4b, 7a, 7b, 10-13, 16	506703	Aluminum Adjustable Fender w/Foam Insert Assembly, Small, PAIR, Black Matte	1
4c, 7b, 10-13, 16	107578	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Small, Right, Black Matte	1
4d, 7a, 10-13, 16	107579	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Small, Left, Black Matte	1
4c, 4d, 7a, 7b, 10-13, 16	506704	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Small, PAIR, Black Matte	1
5a, 8b, 10-12, 14, 16	107580	Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, Right, Black Matte	1
5b, 8a, 10-12, 14, 16	107581	Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, Left, Black Matte	1
5a, 5b, 8a, 8b, 10-12, 14, 16	506707	Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, PAIR, Black Matte	1
5c, 8b, 10-12, 14, 16	107582	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, Right, Black Matte	1
5d, 8a, 10-12, 14, 16	107583	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, Left, Black Matte	1
5c, 5d, 8a, 8b, 10-12, 14, 16	506708	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Medium, PAIR, Black Matte	1
6a, 9b, 10-12, 15, 16	107584	Aluminum Adjustable Fender w/Foam Insert Assembly, Large, Right, Black Matte	1
6b, 9a, 10-12, 15, 16	107585	Aluminum Adjustable Fender w/Foam Insert Assembly, Large, Left, Black Matte	1
6a, 6b, 9a, 9b, 10-12, 15, 16	506711	Aluminum Adjustable Fender w/Foam Insert Assembly, Large, PAIR, Black Matte	1
6c, 9b, 10-12, 15, 16	107586	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Large, Right, Black Matte	1
6d, 9a, 10-12, 15, 16	107587	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Large, Left, Black Matte	1
6c, 6d, 9a, 9b, 10-12, 15, 16	506712	Short Aluminum Adjustable Fender w/Foam Insert Assembly, Large, PAIR, Black Matte	1
1a	003613	Carbon Fiber Fender Panel, Adjustable, Small, Right	1
1b	003614	Carbon Fiber Fender Panel, Adjustable, Small, Left	1
1c	004452	Short Carbon Fiber Fender Panel, Adjustable, Small, Right	1
1d	004453	Short Carbon Fiber Fender Panel, Adjustable, Small, Left	1

Item Number	Part Number	Description	Quantity
2a	003615	Carbon Fiber Fender Panel, Adjustable, Medium, Right	1
2b	003616	Carbon Fiber Fender Panel, Adjustable, Medium, Left	1
2c	004454	Short Carbon Fiber Fender Panel, Adjustable, Medium, Right	1
2d	004455	Short Carbon Fiber Fender Panel, Adjustable, Medium, Left	1
3a	003617	Carbon Fiber Fender Panel, Adjustable, Large, Right	1
3b	003618	Carbon Fiber Fender Panel, Adjustable, Large, Left	1
3c	004456	Short Carbon Fiber Fender Panel, Adjustable, Large, Right	1
3d	004457	Short Carbon Fiber Fender Panel, Adjustable, Large, Left	1
4a	003595	Aluminum Fender Panel, Adjustable, Small, Right, Black Matte	1
4b	003596	Aluminum Fender Panel, Adjustable, Small, Left, Black Matte	1
4c	004446	Short Aluminum Fender Panel, Adjustable, Small, Right, Black Matte	1
4d	004447	Short Aluminum Fender Panel, Adjustable, Small, Left, Black Matte	1
4e	003595_ _ _	Aluminum Fender Panel, Adjustable, Small, Right, Match Frame Color	1
4f	003596_ _ _	Aluminum Fender Panel, Adjustable, Small, Left, Match Frame Color	1
4g	004446_ _ _	Short Aluminum Fender Panel, Adjustable, Small, Right, Match Frame Color	1
4h	004447_ _ _	Short Aluminum Fender Panel, Adjustable, Small, Left, Match Frame Color	1
5a	003597	Aluminum Fender Panel, Adjustable, Medium, Right, Black Matte	1
5b	003598	Aluminum Fender Panel, Adjustable, Medium, Left, Black Matte	1
5c	004448	Short Aluminum Fender Panel, Adjustable, Medium, Right, Black Matte	1
5d	004449	Short Aluminum Fender Panel, Adjustable, Medium, Left, Black Matte	1
5e	003597_ _ _	Aluminum Fender Panel, Adjustable, Medium, Right, Match Frame Color	1
5f	003598_ _ _	Aluminum Fender Panel, Adjustable, Medium, Left, Match Frame Color	1
5g	004448_ _ _	Short Aluminum Fender Panel, Adjustable, Medium, Right, Match Frame Color	1
5h	004449_ _ _	Short Aluminum Fender Panel, Adjustable, Medium, Left, Match Frame Color	1
6a	003599	Aluminum Fender Panel, Adjustable, Large, Right, Black Matte	1
6b	003600	Aluminum Fender Panel, Adjustable, Large, Left, Black Matte	1
6c	004450	Short Aluminum Fender Panel, Adjustable, Large, Right, Black Matte	1

Item Number	Part Number	Description	Quantity
6d	004451	Short Aluminum Fender Panel, Adjustable, Large, Left, Black Matte	1
6e	003599_ _ _	Aluminum Fender Panel, Adjustable, Large, Right, Match Frame Color	1
6f	003600_ _ _	Aluminum Fender Panel, Adjustable, Large, Left, Match Frame Color	1
6g	004450_ _ _	Short Aluminum Fender Panel, Adjustable, Large, Right, Match Frame Color	1
6h	004451_ _ _	Short Aluminum Fender Panel, Adjustable, Large, Left, Match Frame Color	1
7a	003625	Fender Foam Insert, Adjustable, Small, Pair	1
8a	003627	Fender Foam Insert, Adjustable, Medium, Pair	1
9a	003629	Fender Foam Insert, Adjustable, Large, Pair	1
10	003590	Fender Post Mount Plate	1
11	001342	Side Guard Post Stop	1
12	101184	M6 x 10 BTN SHCS BLKZC w/Patch	1
13	003587	Post, Adjustable Fender, Short <i>Used with small side guard panels</i>	1
14	003588	Post, Adjustable Fender, Medium <i>Used with medium side guard panels</i>	1
15	003589	Post, Adjustable Fender, Tall <i>Used with large side guard panels</i>	1
16	103573	M5 x 8mm LP SHCS BLK	4
4a, 7b	506661	Aluminum Adjustable Fender Panel w/Foam Insert, Small, Right, Black Matte	1
4b, 7a	506662	Aluminum Adjustable Fender Panel w/Foam Insert, Small, Left, Black Matte	1
4a, 4b, 7a, 7b	506663	Aluminum Adjustable Fender Panel w/Foam Insert, Small, PAIR, Black Matte	1
4c, 7b	506664	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, Right, Black Matte	1
4d, 7a	506665	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, Left, Black Matte	1
4c, 4d, 7a, 7b	506666	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, PAIR, Black Matte	1
5a, 8b	506673	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Right, Black Matte	1
5b, 8a	506674	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Left, Black Matte	1
5a, 5b, 8a, 8b	506675	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, PAIR, Black Matte	1
5c, 8b	506676	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Right, Black Matte	1

Item Number	Part Number	Description	Quantity
5d, 8a	506677	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Left, Black Matte	1
5c, 5d, 8a, 8b	506678	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, PAIR, Black Matte	1
6a, 9b	506685	Aluminum Adjustable Fender Panel w/Foam Insert, Large, Right, Black Matte	1
6b, 9a	506686	Aluminum Adjustable Fender Panel w/Foam Insert, Large, Left, Black Matte	1
6a, 6b, 9a, 9b	506687	Aluminum Adjustable Fender Panel w/Foam Insert, Large, PAIR, Black Matte	1
6c, 9b	506688	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, Right, Black Matte	1
6d, 9a	506689	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, Left, Black Matte	1
6c, 6d, 9a, 9b	506690	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, PAIR, Black Matte	1
1a, 1b	506697	Carbon Fiber Adjustable Fender Panel, Small, PAIR	1
1c, 1d	506698	Short Carbon Fiber Adjustable Fender Panel, Small, PAIR	1
2a, 2b	506699	Carbon Fiber Adjustable Fender Panel, Medium, PAIR	1
2a, 2b, 10-12, 14, 16	506717	Carbon Fiber Adjustable Fender Assembly, Medium, PAIR	1
2c, 2d	506700	Short Carbon Fiber Adjustable Fender Panel, Medium, PAIR	1
3a, 3b	506701	Carbon Fiber Adjustable Fender Panel, Large, PAIR	1
3a, 3b, 10-12, 15, 16	506719	Carbon Fiber Adjustable Fender Assembly, Large, PAIR	1
3c, 3d	506702	Short Carbon Fiber Adjustable Fender Panel, Large, PAIR	1
4e, 7b	506667_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Small, Right, Match Frame Color	1
4f, 7a	506668_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Small, Left, Match Frame Color	1
4e, 4f, 7a, 7b	506669_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Small, PAIR, Match Frame Color	1
4g, 7b	506670_ _ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, Right, Match Frame Color	1
4h, 7a	506671_ _ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, Left, Match Frame Color	1
4g, 4h, 7a, 7b	506672_ _ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Small, PAIR, Match Frame Color	1
5e, 8b	506679_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Right, Match Frame Color	1
5f, 8a	506680_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Left, Match Frame Color	1
5e, 5f, 8a, 8b	506681_ _ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Medium, PAIR, Match Frame Color	1
5g, 8b	506682_ _ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Right, Match Frame Color	1

Item Number	Part Number	Description	Quantity
5h, 8a	506683_ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, Left, Match Frame Color	1
5g, 5h, 8a, 8b	506684_ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Medium, PAIR, Match Frame Color	1
6e, 9b	506691_ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Large, Right, Match Frame Color	1
6f, 9a	506692_ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Large, Left, Match Frame Color	1
6e, 6f, 9a, 9b	506693_ _ _	Aluminum Adjustable Fender Panel w/Foam Insert, Large, PAIR, Match Frame Color	1
6g, 9b	506694_ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, Right, Match Frame Color	1
6h, 9a	506695_ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, Left, Match Frame Color	1
6g, 6h, 9a, 9b	506696_ _ _	Short Aluminum Adjustable Fender Panel w/Foam Insert, Large, PAIR, Match Frame Color	1

Determining Fender Panel & Post Size For Your Chair

CATALYST

Fender side guard panel size needed to fit a Catalyst is driven by the height of the tire over the seat. To calculate this, use the formula listed below. Once you have the output of the formula use the reference matrix to find the appropriate panel and post sizes. For information on Wheel Outside Diameter reference the Wheel Outside Diameter chart in the parts manual.

Formula: Wheel Outside Diameter (OD) – Rear Seat Height = Tire Height over seat

Reference Matrix:

Tire Height	Panel and Post Size
Tire Height = less than 6"	Small Fender/Short Post
Tire Height = 6-8"	Medium Fender/Medium Post
Tire Height = greater than 8"	Large Fender/Tall Post

ADULT & PEDIATRIC RIGID

Fender side guard panel size and profile is driven by the height of the tire over the seat frame and Center of Gravity (CG) position. To calculate this, use the formula and CG rules listed below. Once you have the output of those use the reference matrix to find the appropriate panel and post size.

Formula: Wheel Outside Diameter (OD) – Rear Seat Height = Tire Height over seat

CG Rules: Axle CG position = distance from axle to backrest tube

Ethos & Rogue: CG position ≤ 3.0 " use Short Fenders & if CG is ≥ 3.25 " use Standard Fenders

Tsunami: CG position ≤ 3.25 " use Short Fenders & if CG is > 3.25 " use Standard Fenders

Pediatric Rigid: CG position ≤ 3.25 " use Short Fenders & if CG is > 3.25 " use Standard Fenders

Reference Matrix:

Tire Height	Panel and Post Size
Tire Height = less than 7"	Small Fender/Short Post
Tire Height = 7-8.5"	Medium Fender/Medium Post
Tire Height = greater than 8.5"	Large Fender/Tall Post



Wheel & Tire Outside Diameter Measurement Reference

Size	Tire Description	Outside Diameter
18"	Street Pneumatic 1-3/8"	18.9
18"	Full Profile Poly 1-3/8"	18.5
18"	Pneumatic w/Airless Insert 1-3/8"	18.8
18"	Low Profile Poly 1"	17.7
20"	Street Pneumatic 1-3/8"	20.7
20"	Full Profile Poly 1-3/8"	20.2
20"	Pneumatic w/Airless Insert 1-3/8"	20.5
20"	Low Profile Poly 1"	19.3
20"	Sentinel Solid 1"	19.6
20"	High Pressure 1"	20.3
20"	SHOX	19.6
22"	Street Pneumatic 1-3/8"	22.5
22"	Full Profile Poly 1-3/8"	22.3
22"	Pneumatic w/Airless Insert 1-3/8"	22.4
22"	Low Profile Poly 1"	21.4
22"	Sentinel Solid 1"	21.9
22"	High Pressure 1"	22.3
22"	SHOX	22
22"	Mountain 2"	24.1
24"	Street Pneumatic 1-3/8"	24
24"	Full Profile Poly 1-3/8"	23.6
24"	Pneumatic w/Airless Insert 1-3/8"	23.9
24"	Schwalbe HS-127 1-3/8"	24
24"	Euro Trek Knobby 1-3/8"	24.1
24"	Low Profile Poly 1"	22.8
24"	Sentinel Solid 1"	23.3
24"	High Pressure 1"	23.6
24"	Schwalbe One 1"	23.8
24"	Schwalbe Marathon Plus EVO 1"	24
24"	SHOX	23.3
24"	Schwalbe Downtown 1"	23.6
24"	Mountain 2"	25.6
25"	Sentinel Solid 1"	24
25"	High Pressure 1"	24.3
25"	Schwalbe One 1"	24.3
25"	Schwalbe Marathon Plus EVO 1	24.4
25"	SHOX	24.1
25"	Mountain 2"	26
26"	Street Pneumatic 1-3/8"	26
26"	Full Profile Poly 1-3/8"	25.8
26"	Pneumatic w/Airless Insert 1-3/8"	25.8
26"	Sentinel Solid 1"	25.1
26"	High Pressure 1"	25.5
26"	Schwalbe Marathon Plus EVO 1"	25.9
26"	SHOX	25.3

