Top End® OSR Racing Chair: Kneeling Seat Design

Price List and Order Form

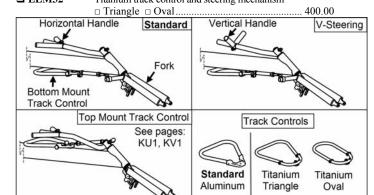
Effective January 1, 2006 Revised July 1, 2008

For accuracy of ordering, please fax order to Top End at 727-522-1007 or e-mail to topendorders@invacare.com For questions call 800-532-8677 or 727-522-8677.

To order Literature: 800-828-6282 www.topendwheelchair.com Provider Name Date Top End Job Number Account #______P.O. #____ Phone #____ Fax # State _City___ Zip Code Customer Name____ Phone No ______City_____State_____Zip Code__ Address **Ship order to:** □ **Provider** □ Customer Order will ship to Provider unless otherwise noted.

ELIMINAT(□ ELMOSR	OR OSR FRAME T 'V' or 'Open V' Cage Complete pages 1 and	Racing Chair	\$3,145.00
□ ELMOSR	'U' Cage Racing Cha	ir	
	Complete pages 1 and	d KU1	\$3,145.00 1
FRAME OP			
□ ELM28	Aluminum knee plate	(required for U cage) 100.00
□ ELM29	Aluminum solid seat		75.00
□ ELM40	Cut-out Axle: Distance	e □ 2" □ 3" □ 4"	250.00 ²
S	tandard Axle	Cut-out Ax	
			Cut-out Distance
UPHOLSTE	RY:		

Upholstery Type: Kneel Amputee: length Standard



FOOTNOTES

- U Cage requires ELM28 aluminum knee plate option. Complete page KU1.
- ² Cut-out axle creates more room for legs and lower rear seat heights.
- ³ Amputee upholstery primary designed for above knee double amputees. Indicate length of upholstery.

REAR WHEELS / PUSHRIMS:

28 Spoke Rear wheels/tires: (choose one)				
_	□ for Tubular tires □ for Clincher tires			
Composite whee	el upgrade: (standard wheels not included)			
□ ELM6	Corima® Carbon fiber 4 spoke (700C)	2,500.00		
	□ Tubular □ Clincher			
□ ELM27	Zipp carbon disk (700C)	2,250.00		
	☐ Tubular only			
□ ELM26	Carbon fiber tri-spoke (700C)	1,850.00		
Rubber-coated	aluminum pushrim 3/8" 14 double peg:			
	Diameter: □ 12" □ 13" □ 14" □ 15" □ 16"	Standard		

SAFETY AND COMFORT OPTIONS

SAFETY AN	D COMFORT OPTIONS
□ ELM10	Helmet75.00
	□ Small (6 5/8" – 7")
	□ Medium (6 7/8" – 7 1/2")
	□ Large (7 1/4" – 7 5/8")
□ ELM11	Cordless computer
□ XLT141	Heart Rate Monitor
☐ XLT20	Bike Rack for Trailer Hitch
	□ 1 1/4" (Std.) □ 2"
□ TER124	Click strap small (pad length ~8")
□ ELM12	Additional 2" strap
	(length)
□ RACE5	Top End racing suit
	Short sleeve – one size fits all)
□ ELM19	Cushion
□ XLT33	Alignment Gauge
□ RACE22	Top End T-Shirt

FRAME COLOR AND UPHOLSTERY UPHOLSTERY Black std UPHI

CO	NTEMPORARY	co	LORS	
_	Wet Black Silver Metallic	_		 White Snow Copper Penny
WA	Y COOL COLO	ORS		

Electric Blue	Midnight Blue	Cosmic Blue
Electric Teal	Emerald Green	Grasshopper Green

го	O HOT COLOR	RS		
	Tangerine Red		Electric Red	Grape Madness
_	Safety Yellow		Sunkissed Orange	Fruit Fusion

Special Instructions:		

FOOTNOTES

⁴ Dealer discount not applicable

Camouflage \$100.00

Top End® Eliminator OSR Racing Chair: Kneeling Seat Design **Measuring Guidelines**

Kneeling Seat Design Racing Chair - Is best for customers who kneel only or need an amputee seat. Customers tend to have good balance and are T-10 injury level or below.

Cage Style - Cage styles can be seen on pages KV1 and KU1. V Cage is for the advanced racer with good flexibility to transfer and assume the kneeling position. This cage style is stiffer and more aerodynamic. Open V offers an easier transfer than the V Cage and is better for racers with longer or thicker/big legs. U cage offers an aluminum knee plate for extra rigidity.

Upper Inside Frame Width – This measurement on the chair is the point directly above the axle on the inside of the frame. This usually rides below the lats on the chair user. With the new integral fender, frame gradually gets wider as the fender follows the wheel. The allows room for the stroke follow through. Measure 2" above waist, then measure straight across chest. Typically upper frame is a maximum 1" - 2" narrower than lower seat width.

Lower Inside Seat Width - Inside panel measurement at rear seat rail. The side panels are riveted on the side of frame as standard. Snug is preferred. Use two flat objects (such as books) to press flesh in at the hips and measure straight across.

Knee Width - Measure width w/knees together.

Axle Position – Typically between 5'' - 8''. The lower the level of SCI, the more forward the axle position. Minimum for kneeling position is 6". Most of the top racers have between 6 1/2" – 8". Taller people may need the axle more forward (8") and amputees back a bit (5" – 6"). A straight camber tube (new in 1995) increases the stiffness of the chair and includes rear wheel alignment adjustability. The angled camber tube continues to be an option for those needing more room for their feet.

Camber – Most users prefer 11°. Athletes who sit high and/or race on the track sometimes prefer more.

Seat Angle – Standard is 15° or 20° for most low level SCI athletes. Those who like their legs lower may want less of an angle. 10° gives a 3" raise and 15° gives 4 1/2" and 20° equals 6".

Cage Style -

V Cage – For the advanced racer w/good flexibility to transfer and assume the kneeling position. This cage is stiffest of all the cage designs and more aerodynamic.

Open V – Easier transfer than V Cage design. Better for racers w/longer and/or thicker legs.

U Cage - Requires aluminum knee plate option.

Rear Seat Height – Measured from floor. Low level SCI athletes tend to sit higher, whereas quads and high level SCI athletes sit lower. Trunk length should also be considered: a long trunk may sit lower and short trunked people higher. The standard rear seat height is 17".

Overall Length - Measured from end to end (rear to front wheel) - between 64" and 76". The average male adult measures between 72" – 76". This measurement for everyone is dependent on the ability to reach the steering system and brake comfortably with tucked into the racing position. A longer chair is smoother gliding and runs straighter, but if it's too long, the ability to "hop" the chair by body force will diminish.

Rear Wheel Size – 700C – most adult men and women. The larger wheel equals more top end speed and is a must for the serious racer. The Top End Eliminator wheel covering fender helps shorter armed people use a 700C wheel as the wheel is covered and protects against chaffing.

Front Wheel – 20" is standard.

Rear Axle – Standard on Top End racers is 1/2" as this makes a stiffer wheel.

Aero Bars – Are standard on the OSR. Steering mounted on the top of the frame for easier reach and improved aerodynamics with removable bar ends.

Rubber Coated Pushrims – Average is 14 1/2" for men, 14" for women. This depends on arm length and power. Range is 13" – 16". Most good racers have tried many sizes over time.

Standard Accessories - Caliper hand brake is mounted on the left steering handle. 3 positioning straps are included (25", 30", 35"). The tool kit includes a pouch that attaches to the back of the upholstery. 5 Allen tools for assembly/adjusting of rear wheels, pushrims, headset, front wheel and side guards are included.



Yes, you can:

Invacare Corporation www.invacare.com

TOP END Products 33781-5914

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4501 63rd Circle North Zipp is a registered trademark of Compositech Inc.

Pinellas Park, FL USA Specifications and prices are subject to change without notification. ©2008 Invacare Corporation

Eliminator OSR Kneeling Position V Cage (KV1)

Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🗆 Provider	☐ Customer	Order will ship	to Provider	unless otherwise noted.

□ V Cage	□ Open V	Cage
----------	----------	------

1. Upper Frame Width

2. Lower Frame Width

3. Knee Width_____

4. Front Seat Angle □10°□15°□20°

5. Kneel Depth (18" Std)

6. Axle Position_____

7. Rear Seat Height_____

8. Camber __11° __12° __13° __15°

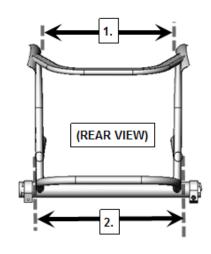
9. Overall Length $\Box 64" \Box 66" \Box 68" \Box 70" \Box 72" \Box 74" \Box 76"$

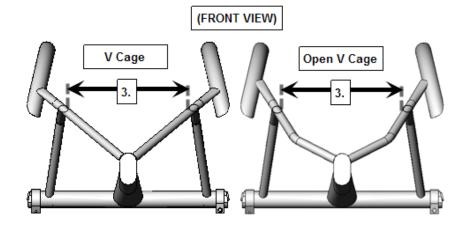
10. Rear Wheel Size □700C □ 26"

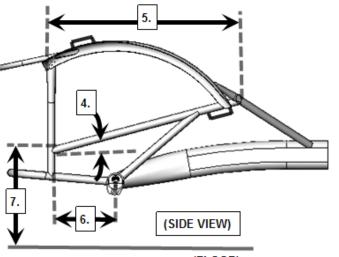
11. Track Control 🔲 Bottom Mount (standard)

☐ Top Mount (Not available on Overall Lengths less than 70")

12. Rear Wheel Type $\ \square$ Zipp $\ \square$ Corima $\ \square$ Tri-Spoke $\ \square$ Standard







(FLOOR)

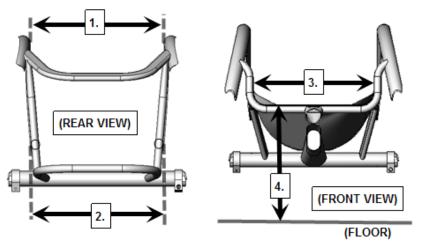
page: KV1

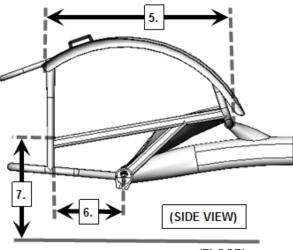
Eliminator OSR U Cage (KU1)

Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🗆 Provider	☐ Customer	Order will ship	to Provider	unless otherwise noted.

1. Upper Frame	Width	
----------------	-------	--

- 2. Lower Frame Width
- 3. Knee Width_____
- 4. Kneel Height_____
- 5. Kneel Depth (18" Std)
- 6. Axle Position_____
- 7. Rear Seat Height_____
- 8. Camber □11° □12° □13° □15°
- 9. Overall Length $\ \square\ 64"\ \square\ 66"\ \square\ 68"\ \square\ 70"\ \square\ 72"\ \square\ 74"\ \square\ 76"$
- 10. Rear Wheel Size □700C □ 26"
- 11. Track Control 🔲 Bottom Mount (standard)
 - ☐ Top Mount (Not available on Overall Lengths less than 70")
- 12. Rear Wheel Type ☐ Zipp ☐ Corima ☐ Tri-Spoke ☐ Standard





(FLOOR)

page: KU1

Eliminator OSR Kneeling Position V Cage (KV1)

Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🗆 Provider	☐ Customer	Order will ship	to Provider	unless otherwise noted.

□ V Cage	□ Open V	Cage
----------	----------	------

1. Upper Frame Width

2. Lower Frame Width

3. Knee Width_____

4. Front Seat Angle □10°□15°□20°

5. Kneel Depth (18" Std)

6. Axle Position_____

7. Rear Seat Height_____

8. Camber __11° __12° __13° __15°

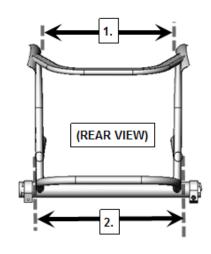
9. Overall Length $\Box 64" \Box 66" \Box 68" \Box 70" \Box 72" \Box 74" \Box 76"$

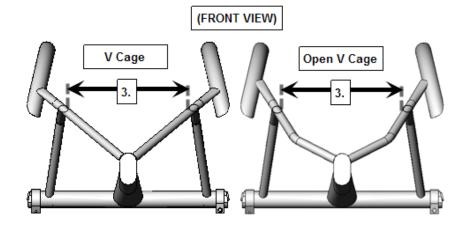
10. Rear Wheel Size □700C □ 26"

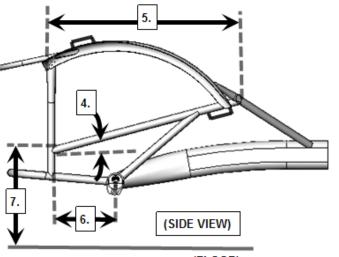
11. Track Control 🔲 Bottom Mount (standard)

☐ Top Mount (Not available on Overall Lengths less than 70")

12. Rear Wheel Type $\ \square$ Zipp $\ \square$ Corima $\ \square$ Tri-Spoke $\ \square$ Standard







(FLOOR)

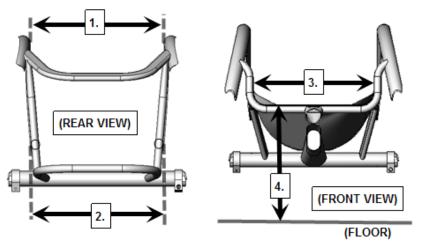
page: KV1

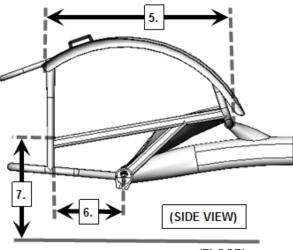
Eliminator OSR U Cage (KU1)

Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🗆 Provider	☐ Customer	Order will ship	to Provider	unless otherwise noted.

1. Upper Frame	Width	
----------------	-------	--

- 2. Lower Frame Width
- 3. Knee Width_____
- 4. Kneel Height_____
- 5. Kneel Depth (18" Std)
- 6. Axle Position_____
- 7. Rear Seat Height_____
- 8. Camber □11° □12° □13° □15°
- 9. Overall Length $\ \square\ 64"\ \square\ 66"\ \square\ 68"\ \square\ 70"\ \square\ 72"\ \square\ 74"\ \square\ 76"$
- 10. Rear Wheel Size □700C □ 26"
- 11. Track Control 🔲 Bottom Mount (standard)
 - ☐ Top Mount (Not available on Overall Lengths less than 70")
- 12. Rear Wheel Type ☐ Zipp ☐ Corima ☐ Tri-Spoke ☐ Standard





(FLOOR)

page: KU1

Top End® OSR Racing Chair: Standard Seat Design

Price List and Order Form

Effective January 1, 2006 Revised July 1, 2008

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To order Literature: 800-828-6282 www.topendwheelchair.com Date ____Top End Job Number_ Provider Name P.O. # Phone # Account # Fax # _State City Zip Code Customer Name____ Phone No ____City____ State____Zip Code_ Address Ship order to: □ Provider □ Customer Order will ship to Provider unless otherwise noted.

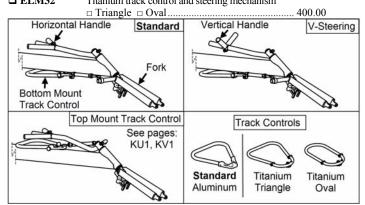
UPHOLSTERY:

Upholstery Type:

Kneel

Amputee: length

Standard



FRONT WHEEL:

Front wheel size:	20"	Standard
□ ELM23	20" Carbon fiber front wheel	600.00

FOOTNOTES

REAR WHEELS / PUSHRIMS:

28 Spoke Rear	wheels/tires: (choose one)	Standard
-	□ for Tubular tires □ for Clincher tires	
Composite whe	el upgrade: (standard wheels not included)	
□ ELM6	Corima® Carbon fiber 4 spoke (700C)	2,500.00
	□ Tubular □ Clincher	
□ ELM27	Zipp carbon disk (700C)	2,250.00
	□ Tubular only	
□ ELM26	Carbon fiber tri-spoke (700C)	1,850.00
Rubber-coated	aluminum pushrim 3/8" 14 double peg:	
	Diameter: □ 12" □ 13" □ 14" □ 15" □ 16"	Standard

SAFETY AND COMFORT OPTIONS

SAFETY AN	D COMFORT OPTIONS	
□ ELM4	Fixed Footrest.	200.00
□ ELM10	Helmet	75.00
	□ Small (6 5/8" – 7")	
	□ Medium (6 7/8" – 7 1/2")	
	\Box Large (7 1/4" – 7 5/8")	
□ ELM11	Cordless computer	125.00
□ XLT141	Heart Rate Monitor	100.00
□ XLT20	Bike Rack for Trailer Hitch	450.00
	□ 1 1/4" (Std.) □ 2"	
□ TER124	Click strap small (pad length ~8")	75.00
□ ELM12	Additional 2" strap	20.00
	(length)	
□ RACE5	Top End racing suit	100.00
	Short sleeve – one size fits all)	
□ ELM19	Cushion	75.00
□ XLT33	Alignment Gauge	75.00
□ RACE22	Top End T-Shirt	10 00 4
_ 1102	□ L □ XL	

FRAME COLOR AND UPHOLSTERY

UPHOLSTERY	■ Black std	□ UPHI	Camouriage \$100.00
CONTEMDODAD	V COLODS		

CONTEMPORARY COLORS

_	WCLDIACK	_	DIACK I HSIII	 Willie Show
	Silver Metallic		Silver Vein	Copper Penny

WAY COOL COLORS

Electric Blue	Midnight Blue	Cosmic Blue
Electric Teal	Emerald Green	Grasshopper Green

TOO HOT COLORS

Tangerine Red	Electric Red	Grape Madness
Safety Yellow	Sunkissed Orange	Fruit Fusion

Special Instructions:

FOOTNOTES

¹ Cut-out axle creates more room for legs and lower rear seat heights.

² Amputee upholstery primary designed for above knee double amputees. Indicate length of upholstery. Kneel upholstery can be used in either the traditional position with plastic footplate/strap or kneeling position.

³ Dealer discount not applicable

Top End® Eliminator OSR Racing Chair: Standard Seat Design **Measuring Guidelines**

Standard Seat Style Chair - Is recommended for customers who sit in traditional position and/or eventually want to kneel. Recommended for athletes with limited balance or for T-10 SCI level and above. These athletes need more of a bucket or squeeze and this frame offers this.

Cage Style - Cage styles can be seen on pages SV1 and SI1. V Cage is for the advanced racer with good flexibility to transfer and assume the kneeling position. This cage style is stiffer and more aerodynamic. Open V offers an easier transfer than the V Cage and is better for racers with longer or thicker/big legs.

Upper Inside Frame Width – This measurement on the chair is the point directly above the axle on the inside of the frame. This usually rides below the lats on the chair user. With the new integral fender, frame gradually gets wider as the fender follows the wheel. The allows room for the stroke follow through. Measure 2" above waist, then measure straight across chest. Typically upper frame is a maximum 1'' - 2'' narrower than lower seat width.

Lower Inside Seat Width - Inside panel measurement at rear seat rail. The side panels are riveted on the side of frame as standard. Snug is preferred. Use two flat objects (such as books) to press flesh in at the hips and measure straight

Axle Position – Typically between 5'' - 8''. The lower the level of SCI, the more forward the axle position. Minimum for kneeling position is 6". Most of the top racers have between $6 \frac{1}{2}$ " – 8". Taller people may need the axle more forward (8") and amputees back a bit (5'' - 6''). A straight camber tube (new in 1995) increases the stiffness of the chair and includes rear wheel alignment adjustability. The angled camber tube continues to be an option for those needing more room for their feet.

Camber – Most users prefer 11°. Athletes who sit high and/or race on the track sometimes prefer more.

Seat Angle – Standard is 15° or 20° for most low level SCI athletes. Those who like their legs lower may want less of an angle. 10° gives a 3" raise and 15° gives 4 1/2" and 20° equals 6".

Cage Style -

V Cage – For the advanced racer w/good flexibility to transfer and assume the kneeling position. This cage is stiffest of all the cage designs and more aerodynamic.

Open V – Easier transfer than V Cage design. Better for racers w/longer and/or thicker legs.

Rear Seat Height – Measured from floor. Low level SCI athletes tend to sit higher, whereas quads and high level SCI athletes sit lower. Trunk length should also be considered: a long trunk may sit lower and short trunked people higher. The standard rear seat height is 17".

Overall Length - Measured from end to end (rear to front wheel) - between 64" and 76". The average male adult measures between 72" – 76". This measurement for everyone is dependent on the ability to reach the steering system and brake comfortably with tucked into the racing position. A longer chair is smoother gliding and runs straighter, but if it's too long, the ability to "hop" the chair by body force will diminish.

Rear Wheel Size – 700C – most adult men and women. The larger wheel equals more top end speed and is a must for the serious racer. The Top End Eliminator wheel covering fender helps shorter armed people use a 700C wheel as the wheel is covered and protects against chaffing.

Front Wheel - 20" is standard.

Rear Axle – Standard on Top End racers is 1/2" as this makes a stiffer wheel.

Aero Bars – Are standard on the OSR. Steering mounted on the top of the frame for easier reach and improved aerodynamics with removable bar ends.

Rubber Coated Pushrims – Average is 14 1/2" for men, 14" for women. This depends on arm length and power. Range is 13" – 16". Most good racers have tried many sizes over time.

Standard Accessories - Caliper hand brake is mounted on the left steering handle. 3 positioning straps are included (25", 30", 35"). The tool kit includes a pouch that attaches to the back of the upholstery. 5 Allen tools for assembly/adjusting of rear wheels, pushrims, headset, front wheel and side guards are included.



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TOP END Sports and Recreation Products 33781-5914

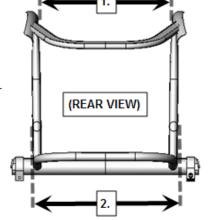
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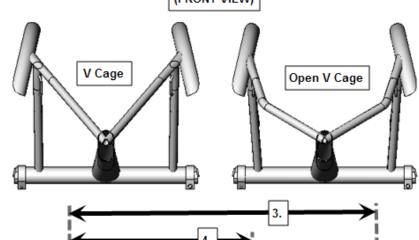
Eliminator Standard OSR 'V' or 'Open V' Cage (SV1)

Traditional or Kneeling Position

	madidonar	or rencoming ros	Juon	
Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🛭 Provider	☐ Customer	Order will ship	to Provider (unless otherwise noted.
	← 1. →i			(FRONT VIEW)
TDL	N.			

□V Cage □Open V Cage	
1. Rear Upper Frame Width	
2. Lower Frame Width	
3. V Depth □24" □25" □26"	
4. Cage Depth (15" Std)	4





7. Front Seat Height_____

6. Rear Seat Height

5. Axle Position

8. Camber □11°□12°□13°□15°

9. Overall Length $\ \ \, \Box 64" \ \Box 66" \ \Box 68" \ \Box 70" \ \Box 72" \ \Box 74" \ \Box 76"$

10. Rear Wheel Size □700C □ 26"

11. Track Control 🔲 Bottom Mount (standard)

☐ Top Mount (Not available on Overall Lengths less than 70")

12. Rear Wheel Type $\ \square$ Zipp $\ \square$ Corima $\ \square$ Tri-Spoke $\ \square$ Standard

(SIDE VIEW)

6.

7.

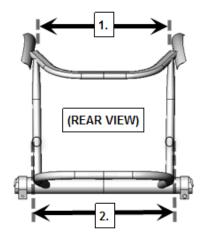
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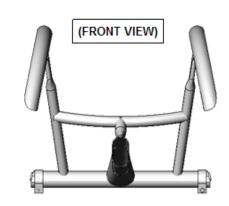
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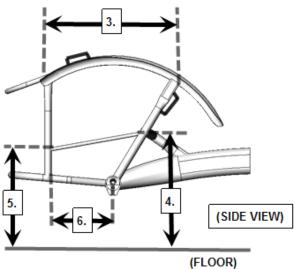
Eliminator OSR | Cage (SI1)

Provider Name		Date		Top End Job Number
Account #	P.O. #	Phone #		Fax#
Address		City	State	Zip Code
Customer Name				Phone No
Address		City	State	Zip Code
Ship order to: 🗆 Provider	☐ Customer	Order will ship to Provider unless otherwise noted.		

- 1. Upper Frame Width_____
- 2. Lower Frame Width_____
- 3. Depth (15" Std)_____
- 4. Front Seat Height_____
- 5. Rear Seat Height
- 6. Axle Position_____
- 7. Camber _11° _12° _13° _15°
- 9. Rear Wheel Size ☐700C ☐26"
- 10. Track Control Bottom Mount (standard)
 - ☐ Top Mount (Not available on Overall Lengths less than 70")
- 11. Rear Wheel Type □Zipp □Corima □Tri-Spoke □Standard







Revision Date: July 1,2008

page: SI1