

MEASURING MANUAL

1 March 2022



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USER GUIDE

Introduction:

In order to ensure we use the same system of measurement to evaluate the product and that we use the same terminology to describe these measurements, we have put together Measuring Guidelines. Correctly measuring garments is essential for the higher level we want to achieve.

In addition to written descriptions of how to take a measurement, there are illustrations showing the points of measure for different categories of garments. This standardization will ensure consistency and accuracy in measuring.

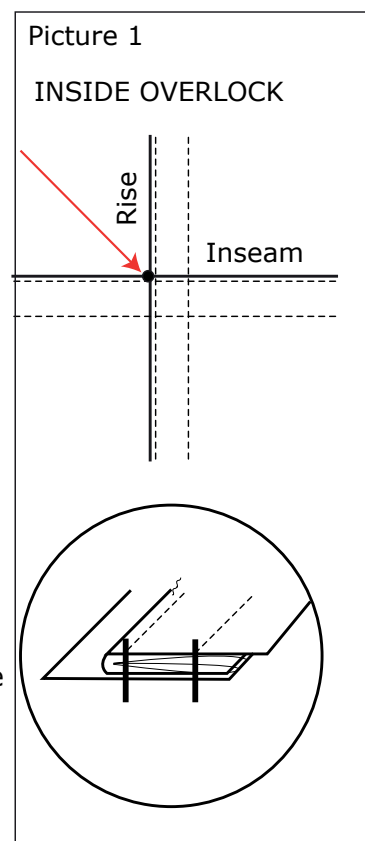
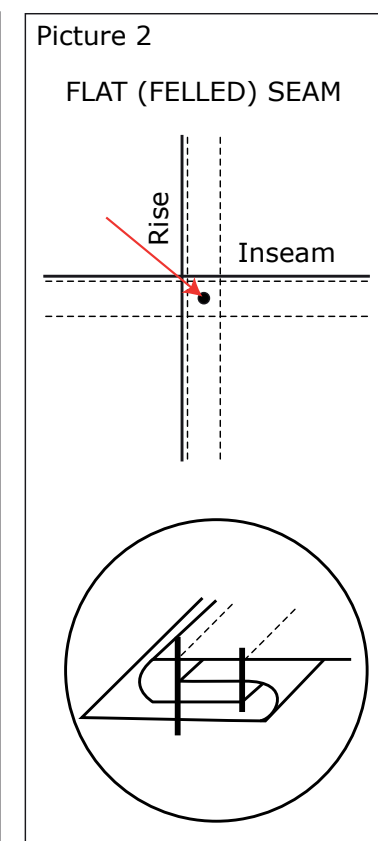
Should you have any queries regarding the use and application of this Measuring Manual, please refer to the fit technician responsible for the department you are developing.

Preparation for Measuring:

- * Table surface must be smooth and flat
- * Make sure that all the zippers, buttons and other accessories are closed (except when measuring stretched waist drawcord in waistband must be loose)
- * Gently smooth out all folds, wrinkles or creases being careful not to stretch or distort garment
- * All measurements should be taken with a tape measure. The measuring tape should be in a good condition and digits are clearly readable
- * Plastic tape measures will stretch over time: these should be checked periodically against a metal ruler to ensure accuracy
- * All measurements in size specifications are in cm's, measured on a finished garment
- * All measurements are taken on the front side of the garment, unless specified otherwise
- * Flat felled or flat seamed seams, place the end of the measuring tape at the center of the seam
See picture 1 and 2

Different ways of measuring have to be clearly mentioned:

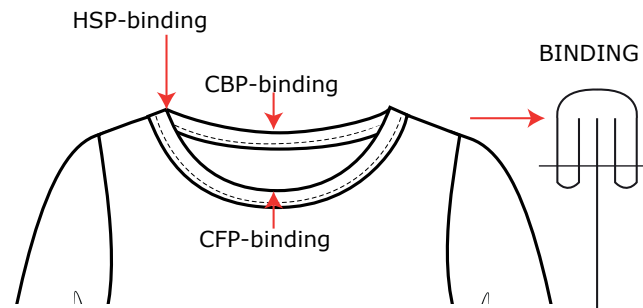
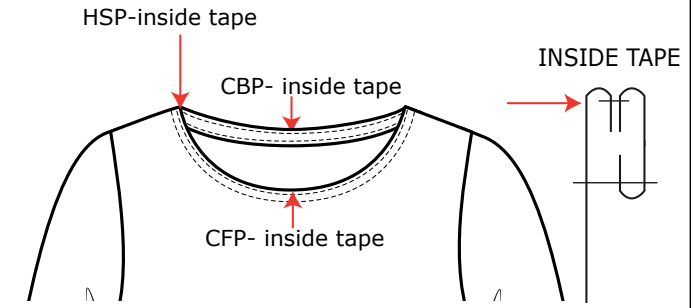
- Straight / Horizontal = To be measured straight in horizontal line from edge to edge right angled to the grain line
- Straight / Vertical = To be measured straight in a vertical line from top to bottom parallel to the grain line
- Curved = To be measured along garment edge, seam or hem
- Relaxed = For garments with elastic or rib: To be measured from side edge to side edge while the garment is relaxed
- Stretched = For garments with elastic or rib stretched out to achieve that the shell fabric is relaxed and flat (without any wrinkles)
- Fully stretched = Stretched to the maximum amount of the (stretch) fabric (making use of the stretch in the fabric)



EDGE TO EDGE - SEAM TO SEAM PRINCIPLE

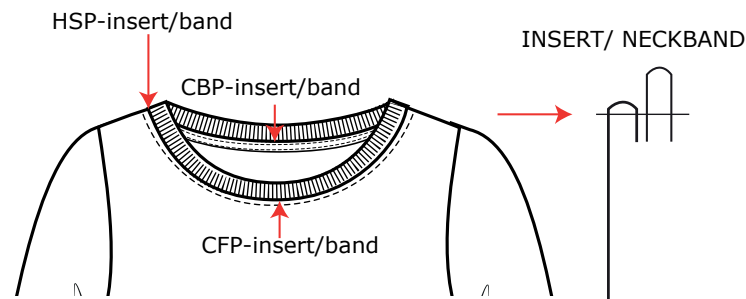
EDGE TO EDGE

In a garment with a **binding** or **inside tape/facing** (blind finishing) around the neckline edge, the HSP/CBP/CFP is measured from the edge of the binding, because this is the HSP of the front and back panel. In this case, you always start measuring at the edge of the binding when mentioned HSP

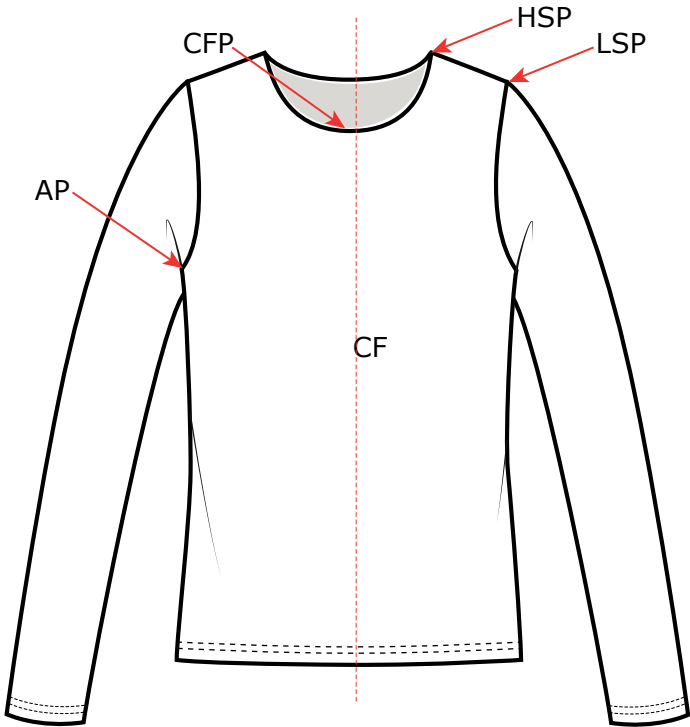
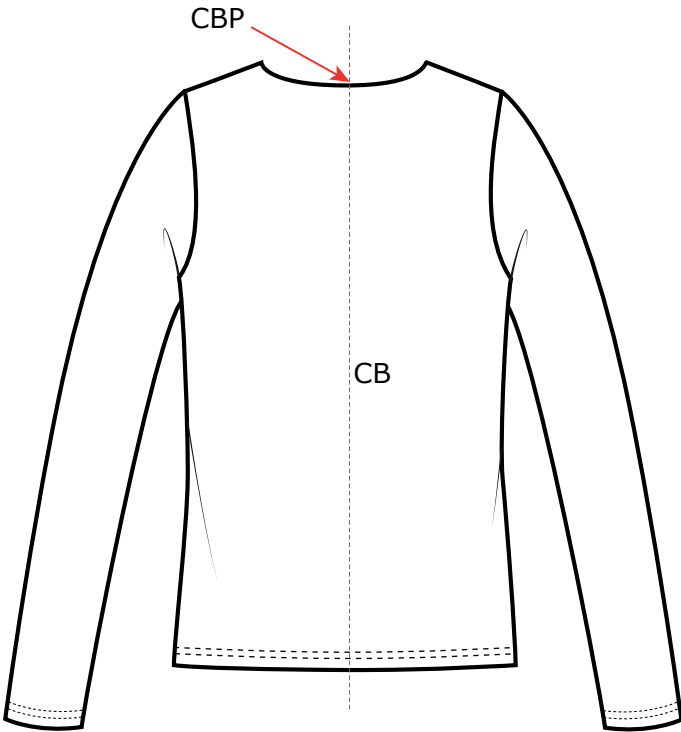


SEAM TO SEAM

In a garment with a rib or self-fabric **insert/band** the HSP/CBP/CFP of the panel is measured at the neckline attachment seam







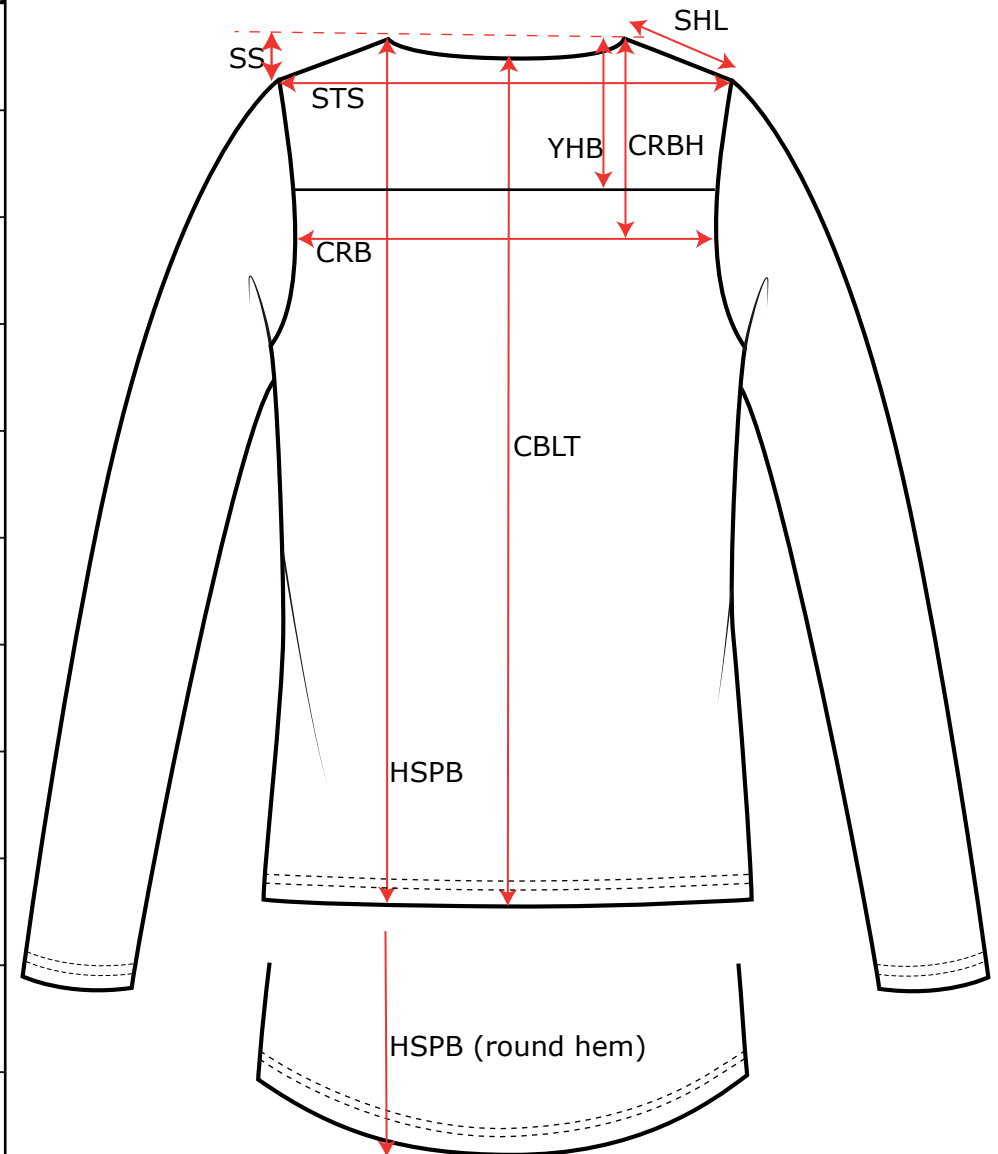
DESCRIPTION		
CF	CENTER FRONT	Vertical center front panel
CB	CENTER BACK	Vertical center of the back panel
CBP	CENTER BACK NECK POINT	Point at center back neck
CFP	CENTER FRONT NECK POINT	Point at center front neck
HSP	HIGHEST SHOULDER POINT	Highest point at neck on natural shoulder fold
LSP	LOWEST SHOULDER POINT	Lowest point on natural shoulder fold
AP	ARMPIT	Lowest point of armhole, instersection of armhole and side seam or side seam fold in case of replaced side seam

HOW TO MEASURE:		TOP - BACK
DATE: 1 March 2022		TOPS
DESCRIPTION		
HSPB	BODY LENGTH FROM HSP BACK	From HSP straight down to bottom hem (imaginary horizontal line on longest part)
CBLT	CENTER BACK LENGTH	From CBP straight down to bottom hem edge
STS	SHOULDER TO SHOULDER	In straight line from lowest shoulder point to lowest shoulder point at back of garment
SHL	SHOULDER LENGTH	On natural shoulder fold from HSP to LSP
SS	SHOULDER SLOPE	Straight up from LSP to HSP level (imaginary line)
CRBH	CROSS BACK HEIGHT	From HSP straight X distance down to cross back height
CRB	CROSS BACK WIDTH	At cross back height measure straight across seam to seam/edge to edge
YHB	YOKE HEIGHT BACK FROM HSP	From HSP straight down to yoke seam

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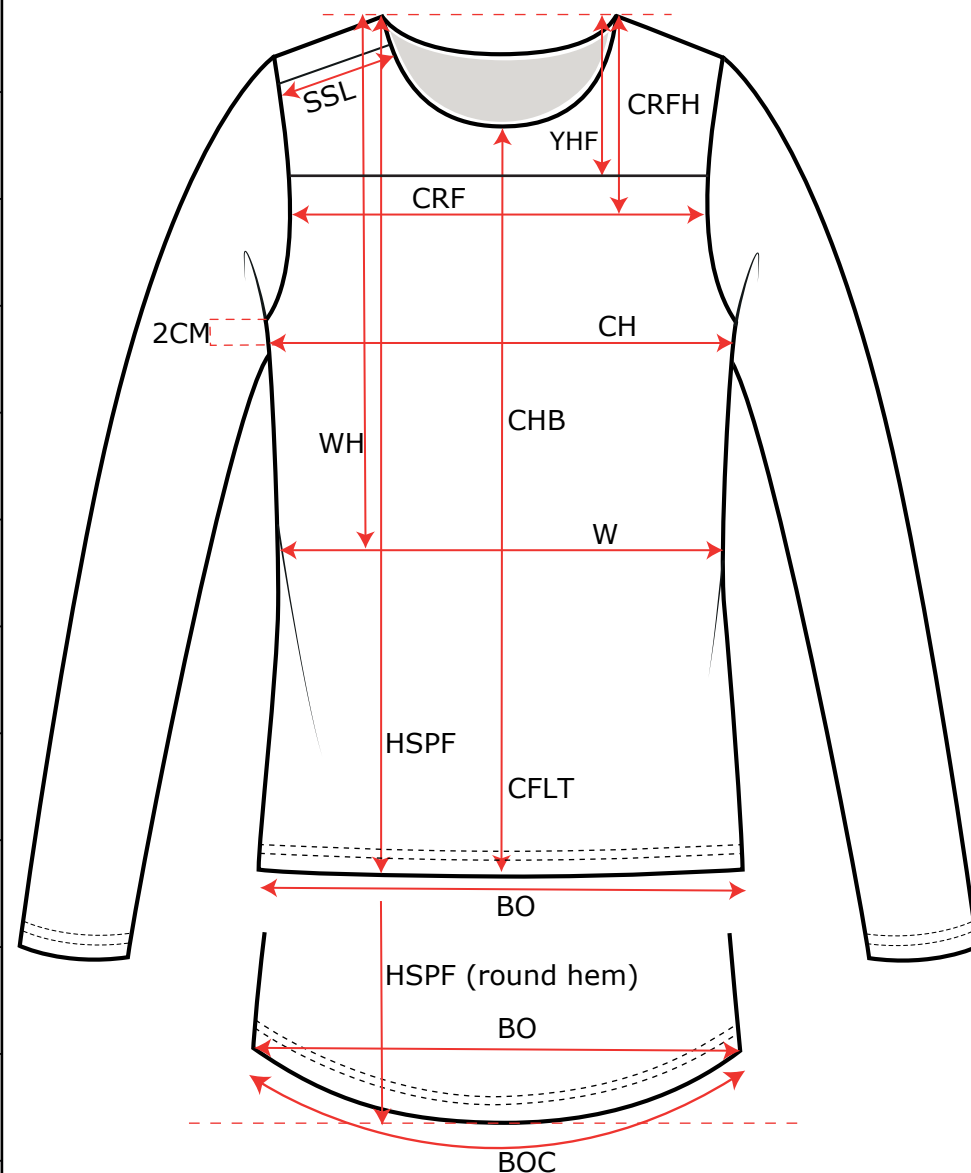


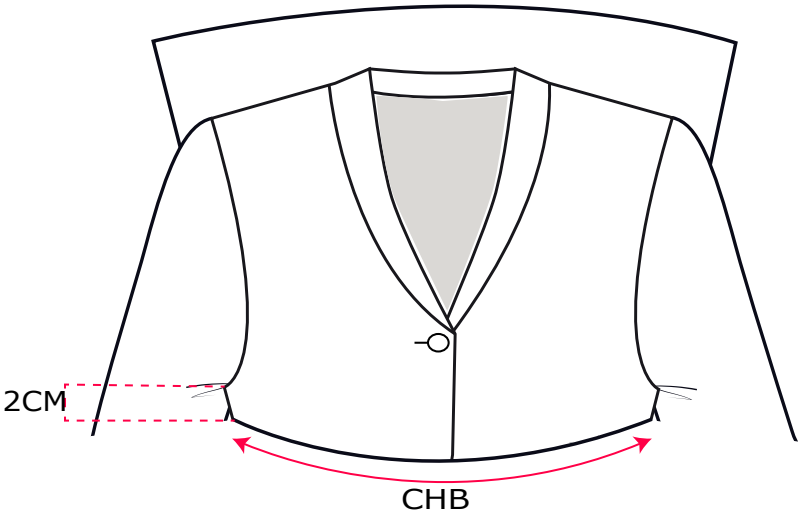
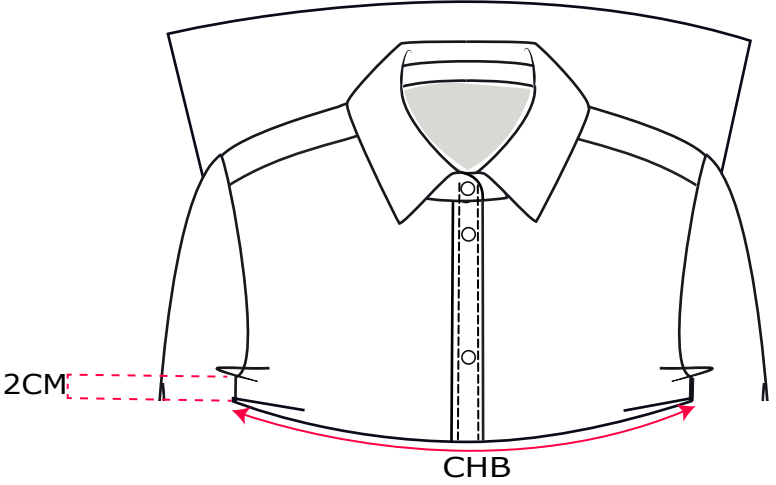
HOW TO MEASURE:		TOP - FRONT
DATE: 1 March 2022		TOPS
DESCRIPTION		
HSPF	BODY LENGTH FROM HSP FRONT	From HSP straight down to bottom hem (imaginary straight horizontal line on longest part)
CFLT	CENTER FRONT LENGTH	From CF point (CBF) straight down to bottom hem.
SSL	SHOULDER SEAM LENGTH	Length of the shoulder seam
CRFH	CROSS FRONT HEIGHT FROM HSP	From HSP X distance straight down to cross front height
CRF	CROSS FRONT WIDTH	At cross front height measure straight across seam to seam/edge to edge
CH	1/2 CHEST WIDTH	Straight across from side to side (on the fold) 2cm below armpit.
WH	WAIST HEIGHT FROM HSP	Straight down from HSP to indicated position.
W	1/2 WAIST WIDTH	Straight across from side to side (on the fold) at the indicated waist height from HSP
BO	1/2 BOTTOM STRAIGHT	Straight across from side to side (on the fold)
BOC	1/2 BOTTOM CURVED	Along curve of hem side to side (on the fold)
YHF	YOKE HEIGHT FRONT FROM HSP	From HSP straight down to yoke seam

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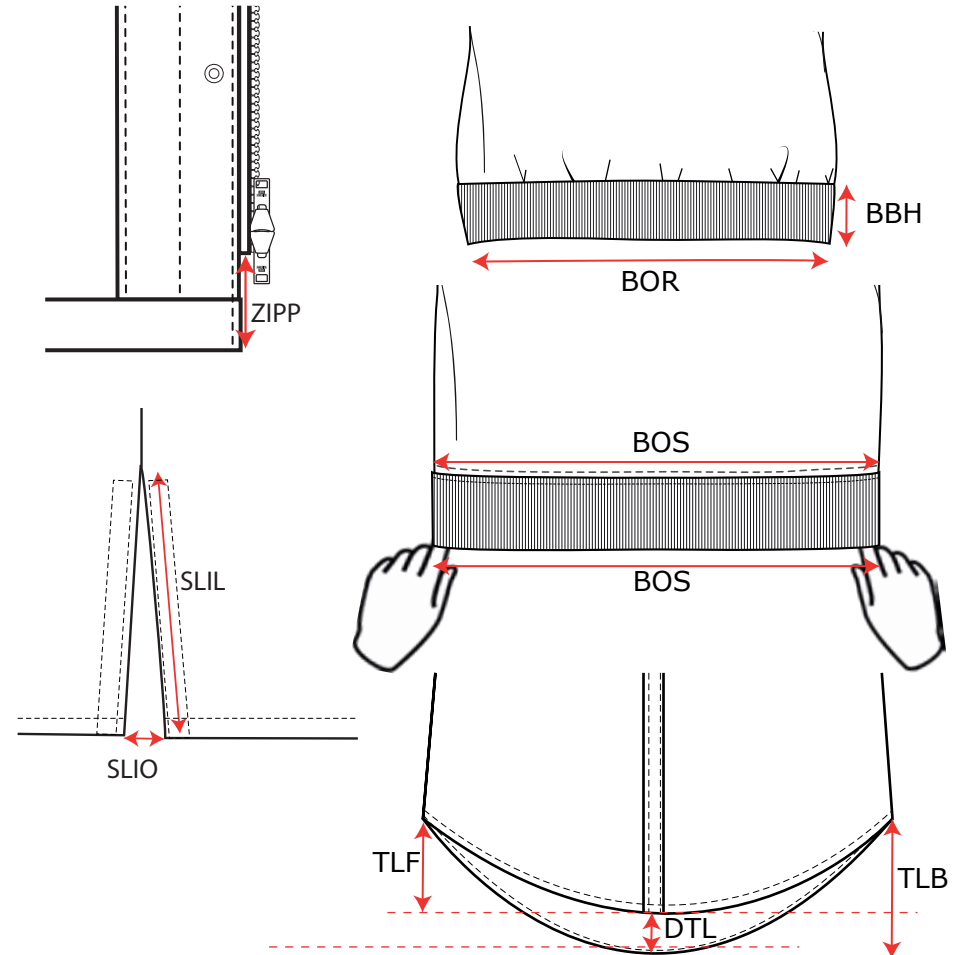
HOW TO MEASURE:		TOP - FRONT WITH DART	<div> <div>AMERICA TODAY</div> <div>ms mode</div> <div>COOLCAT®</div> </div>
DATE: 1 March 2022			
DESCRIPTION			<div>   </div>
CHB	1/2 CHEST WITH BUST SHAPE	Fold front of garment 2 cm below armpit, so fold becomes round shaped, measure along the round fold. Make sure back is flat	

HOW TO MEASURE:		TOP - BOTTOM
DATE: 1 March 2022		
DESCRIPTION		
BOR	1/2 BOTTOM WIDTH RELAXED	Bottom edge in straight line with the rib or elastic in relaxed position
BOS	1/2 BOTTOM WIDTH STRETCHED	Bottom on edge/seam (the pattern size). Make sure that fabric is flat without gathering or any pleats
DTL	DROP TAIL LENGTH	Distance between center front bottom hem and center back bottom hem
TLF	TAIL LENGTH FRONT	Distance between bottom side seam to center front bottom hem
TLB	TAIL LENGTH BACK	Distance between bottom side seam to center back bottom hem.
BBH	BOTTOM BAND HEIGHT	The total height of the band.
SLIL	SLIT LENGHT	from top of slit opening to bottom of shortest hem along finished edge of slit
SLIO	SLIT OPENING	From edge to edge straight at end of slit.
ZIPP	ZIPPER POSITION FROM BOTTOM EDGE	From edge of bottom up to position of the zipper.

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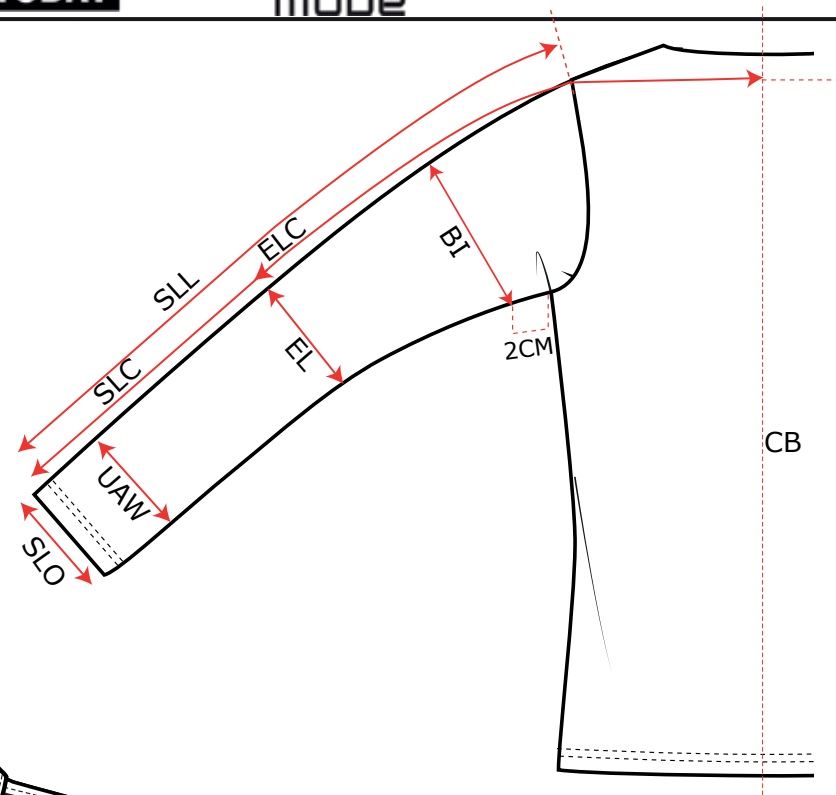
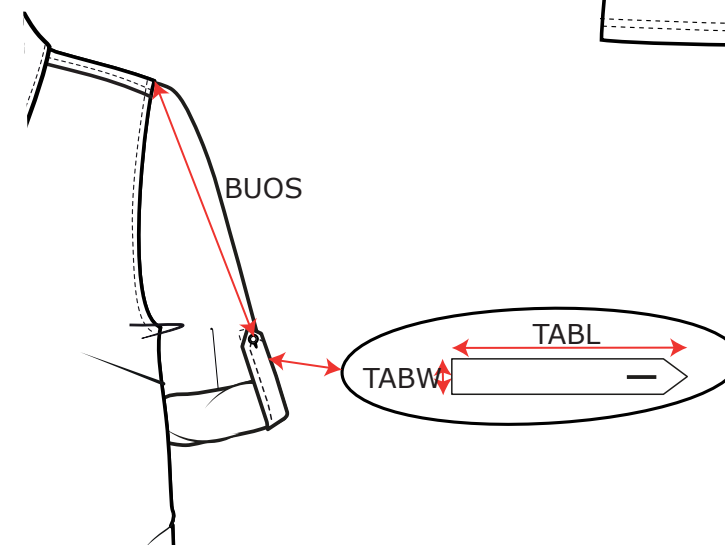
HOW TO MEASURE:		ARMHOLES	<div> <div>AMERICA TODAY</div> <div>ms mode</div> <div>COOLCAT®</div> </div>
DATE: 1 March 2022			
DESCRIPTION			
AD	ARMHOLE DEPTH	Straight down from LSP to armpit	
AHD	1/2 ARMHOLE DIAGONAL	From LSP to armpit	
AHR	1/2 ARMHOLE DEPTH RAGLAN	Straight down from HSP to armpit	
RSP	RAGLAN SEAM POSITION AT NECK	Straight from HSP to raglan position along the neck line	
ADF	ARMHOLE DEPTH FRONT	Straight down from lsp to armpit at front panel	
ADB	ARMHOLE DEPTH BACK	Straight down from lsp to armpit at back panel	
ACW	ARMHOLE CUFF HEIGHT	From finished edge of band or rib to armhole seam	

HOW TO MEASURE:		SLEEVE
DATE: 1 March 2022		
DESCRIPTION		
BI	1/2 BICEP WIDTH	2 cm Down from armpit along underarm seam, straight across at right angle to top fold of sleeve
EL	1/2 ELBOW WIDTH	At indicated elbow position measure straight across the sleeve at right angle
SLO	1/2 SLEEVE OPENING FLAT	Straight on edge side to side
ELC	ELBOW POSTION FROM CBP	From CBP to LSP, from this point measure straight down to indicated elbow position
SLC	SLEEVE LENGTH FROM CBP	From CBP to LSP, from this point measure straight to bottom hem edge
UAW	1/2 UNDER ARM WIDTH	At indicated position measure straight across the sleeve at right angle
SLL	SLEEVE LENGTH FROM LSP	From LSP in a straight line to bottom hem
TABL	TAB LENGTH	Total length of the tab
TABW	TAB WIDTH	Total width of the tab
BUOS	BUTTON POSITION ON SLEEVE	From LSP down to center button on sleeve

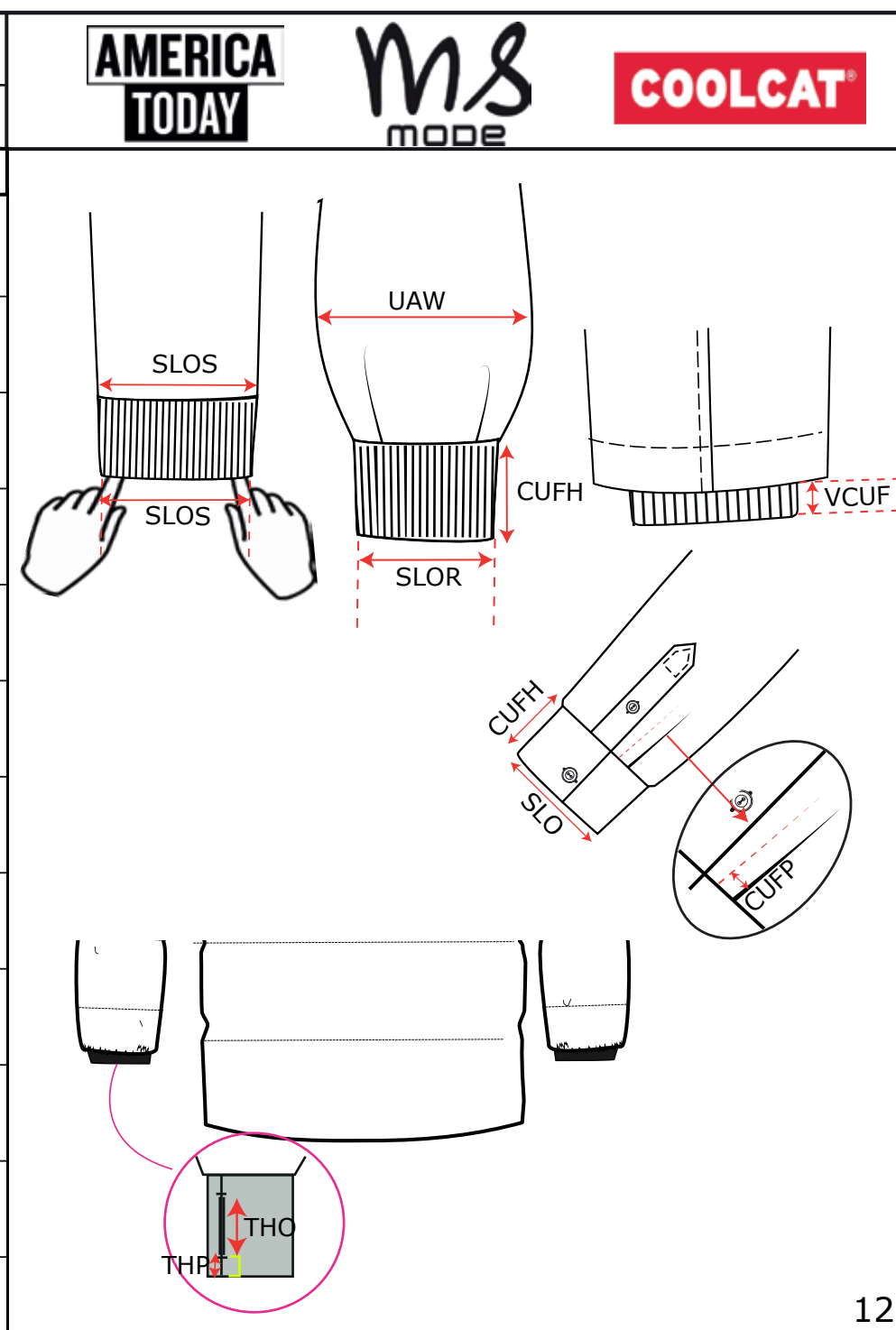
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HOW TO MEASURE:		CUFF
DATE: 1 March 2022		
DESCRIPTION		
CUFH	CUFF HEIGHT	The total height of the (rib) cuff
SLOR	1/2 SLEEVE OPENING RELAXED	Along bottom edge from side to side
SLOS	1/2 SLEEVE OPENING STRETCHED	Stretch to the full extentsion of fabric (pattern size). Measure along bottom edge/seam, side to side
VCUF	VISIBLE PART INNER CUFF	From outer shell sleeve edge till bottom rib edge
CUFP	CUFF PLEAT DEPTH	The depth of a pleat
THO	THUMB OPENING	The length of the opening on the cuff
THP	THUMP POSITION FROM EDGE	From edge of cuff to position of the opening

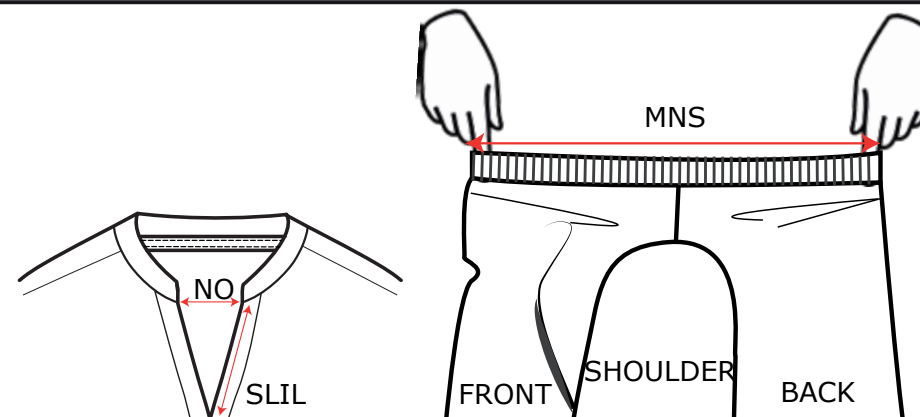
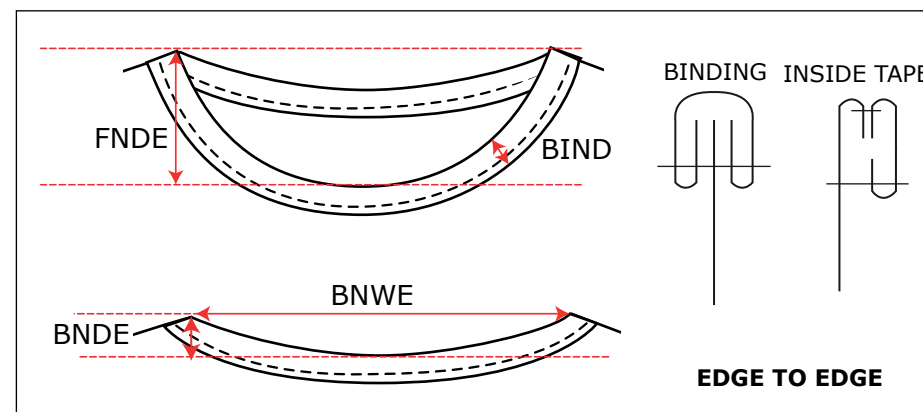
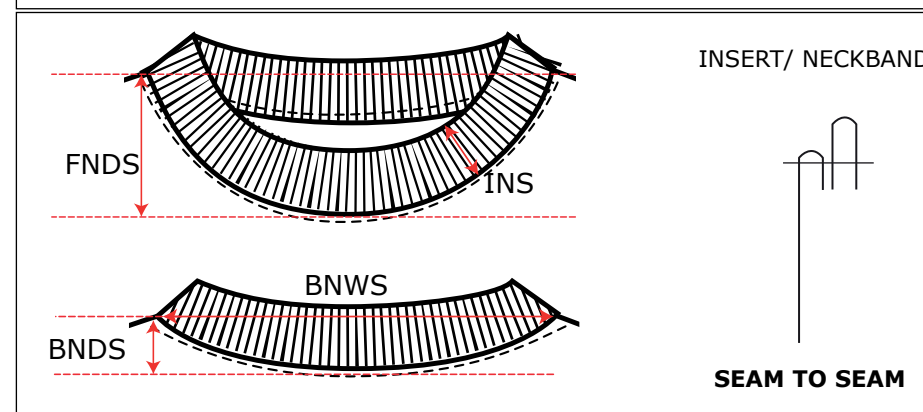


HOW TO MEASURE:		NECK
DATE: 1 March 2022		
DESCRIPTION		
MNS	MINIMUM NECK STRETCH	Stretch the neck to the full extension. Measure along edge/seam. Safety measurement
BNWE	BACK NECK WIDTH EDGE TO EDGE	From HSP edge to HSP edge on natural shoulder fold
BNDE	BACK NECK DROP EDGE TO EDGE	Straight down from HSP edge down to neck CBP edge
FNDE	FRONT NECK DROP EDGE TO EDGE	Straight down from HSP edge down to CFP edge
BNWS	BACK NECK WIDTH SEAM TO SEAM	From HSP seam to HSP seam at natural shoulder fold
BNDS	BACK NECK DROP SEAM TO SEAM	Straight from HSP seam down to neck CBP seam
FNDS	FRONT NECK DROP SEAM TO SEAM	Straight from HSP seam down to CFP seam
NO	NECK OPENING	Distance between opening of the neck
SLIL	SLIT LENGTH	The total length of the slit
INS	INSERT BAND WIDTH	Total height of the band / insert
BIND	BINDING WIDTH	Total width of the binding

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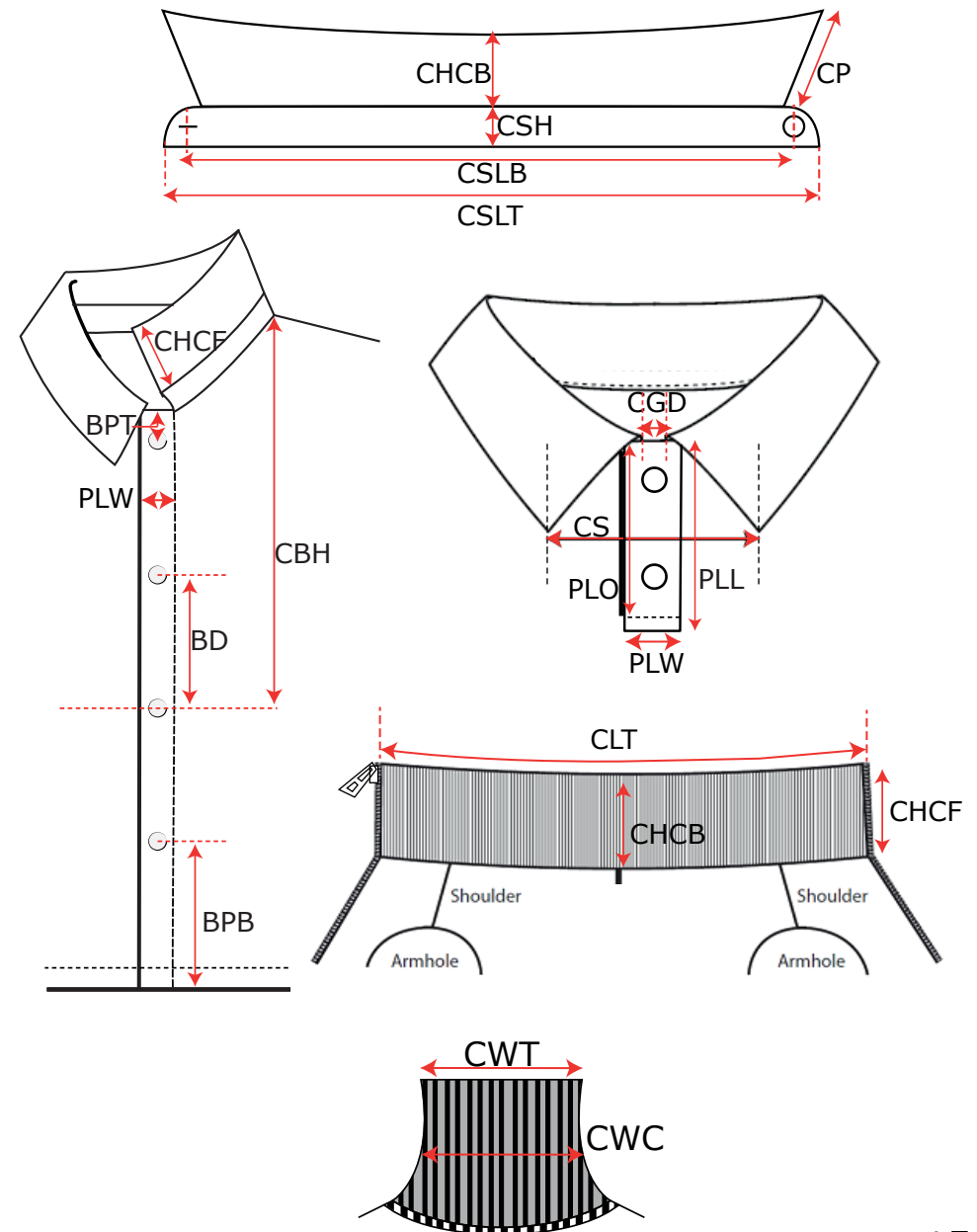


HOW TO MEASURE:		COLLAR - CLOSURE
DATE: 1 March 2022		
DESCRIPTION		
CHCB	COLLAR HEIGHT AT CB	From top edge of collar to seam at CB
CSH	COLLAR STAND HEIGHT AT CB	From top of collar stand to neckseam at CB
CP	COLLAR POINT LENGHT	From edge/point of collar to neckseam at CF
CSLB	COLLAR STAND LENGTH BUTTONED	The total collar stand length from center of button to end of button hole at CF
CSLT	COLLAR STAND LENGTH TOTAL	The total collar stand length at bottom from edge to edge
CLT	COLLAR LENGTH AT TOP EDGE	Along finished edge from collar point to collar point
CBH	CHEST BUTTON HEIGHT FROM HSP	From hsp down to center of chest button
CGD	COLLAR GAP DISTANCE	From start of collar to end of collar when closure is fully closed
CS	COLLAR SPREAD	Straight from collar point to collar point
PLL	PLACKET LENGHT	Total length of placket
PLO	PLACKET OPENING	Measured straight from neckseam to top of box
BPT	BUTTON POSITION FROM TOP CLOSURE	From neckseam down to center first button
CHCF	COLLAR HEIGHT AT CF	Total height of collar center front
PLW	PLACKET WIDTH	Total width of placket
BD	BUTTON DISTANCE	Distance between center of button to center of button
CWT	COLLAR WIDTH TOP COLLAR	The width on the top of collar measured relaxed
CWC	COLLAR WIDTH CENTER COLLAR	from edge to edge the width of the collar at indicated position measured relaxed

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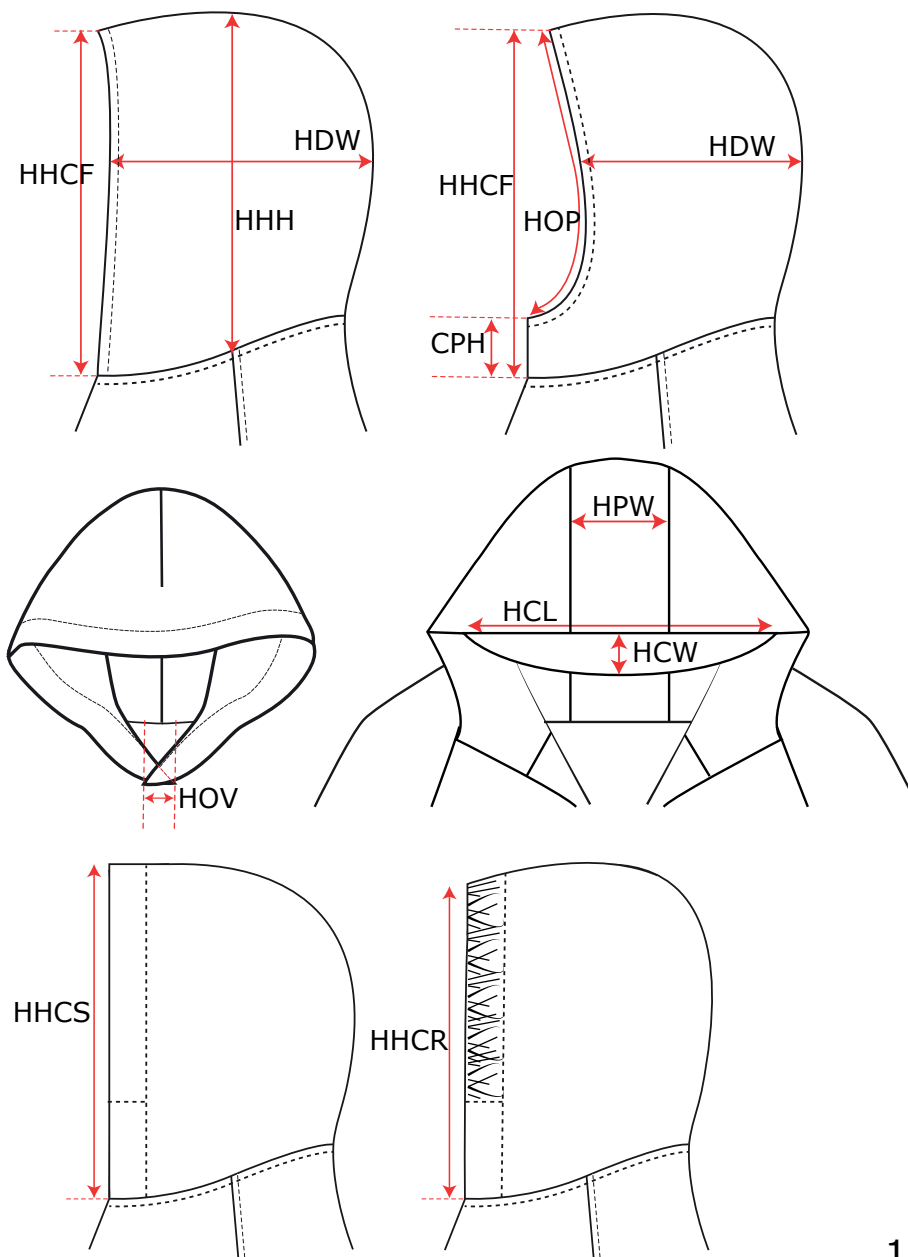


HOW TO MEASURE:		HOOD
DATE: 1 March 2022		
DESCRIPTION		
HHCF	HOOD HEIGHT AT CF	Straight from neck seam CFP to top fold hood at CF
HHH	HOOD HEIGHT AT HSP	Straight from HSP up to top fold of hood
HDW	HOOD WIDTH	From CF edge straight across to CB fold at widest part
HPW	HOOD PANEL WIDTH	The total width of panel, seam to seam at hood edge
CPH	COLLAR POINT HOOD	From edge/CFP of collar/hood to neckseam at CF
HOV	HOOD OVERLAP CF	The width of the overlap hood center front
HCL	HOOD CAP LENGTH	Lenght of cap along the hoodseam cap / flap
HCW	HOOD CAP WIDTH	Total width on center of cap / flap of the hood
HOP	HOOD OPENING	Along the edge of the hood from top to collar edge
HHCR	HOOD HEIGHT AT CF RELAXED	Straight from neck seam CFP to top fold hood at CF when hood is relaxed
HHCS	HOOD HEIGHT AT CF STRETCHED	Straight from neck seam CFP to top fold hood at CF when hood is stretched (pattern size)

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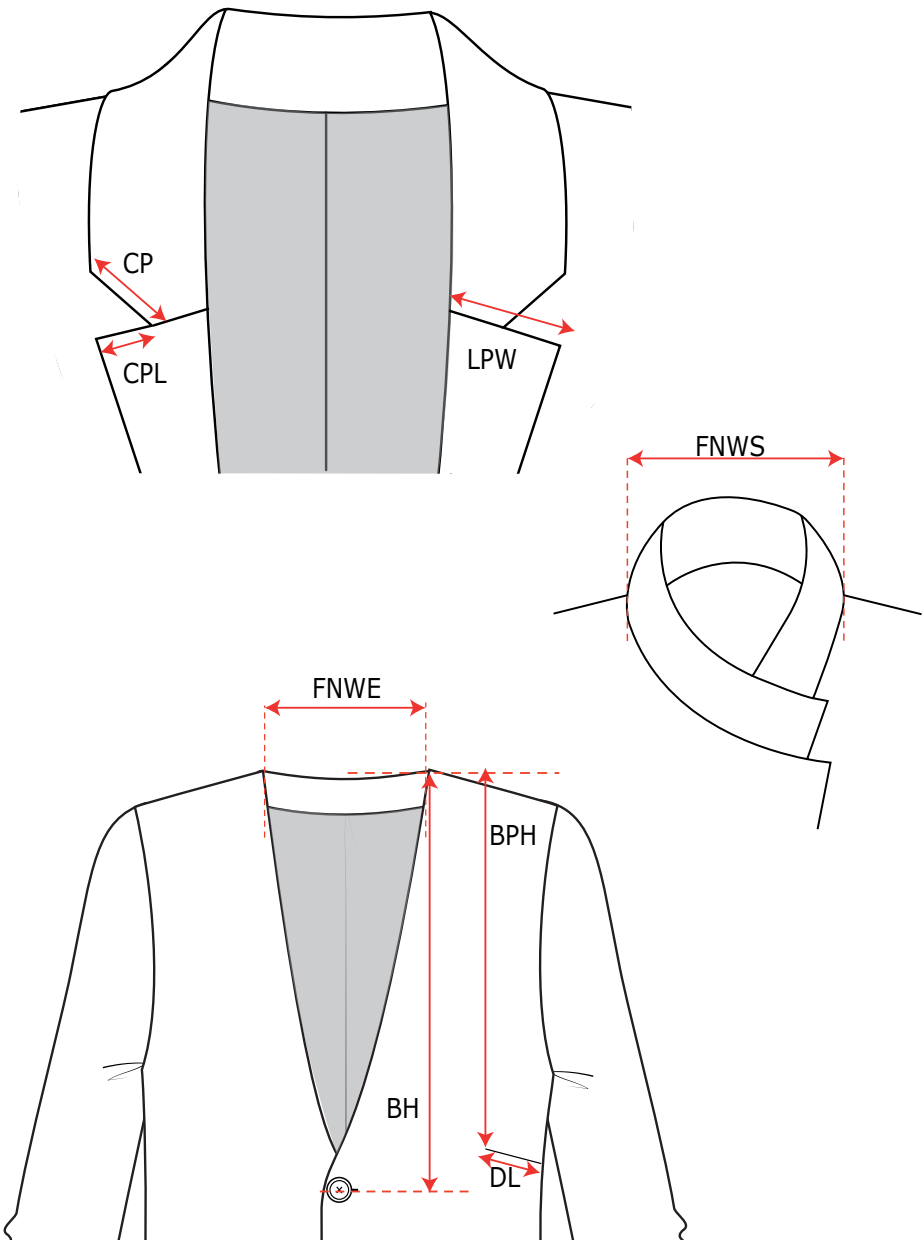


HOW TO MEASURE:		LAPEL - FRONT DART
DATE: 1 March 2022		
DESCRIPTION		
CP	COLLAR POINT LENGTH	From edge / point of collar to neckseam
CPL	COLLAR POINT LAPEL	Distance between collar point to lapel point
LPW	LAPEL WIDTH	From lapel fold to edge/point lapel
BH	BUTTON HEIGHT FROM HSP	From HSP straight down to center button
BPH	BUST POINT HEIGHT FROM HSP	From HSP down to position of dart point
DL	DART LENGTH	Length of the dart seam/stitch
FNWS	FRONT NECK WIDTH SEAM TO SEAM	From HSP seam to HSP seam at natural shoulder fold
FNWE	FRONT NECK WIDTH EDGE TO EDGE	From HSP edge to HSP edge on natural shoulder fold

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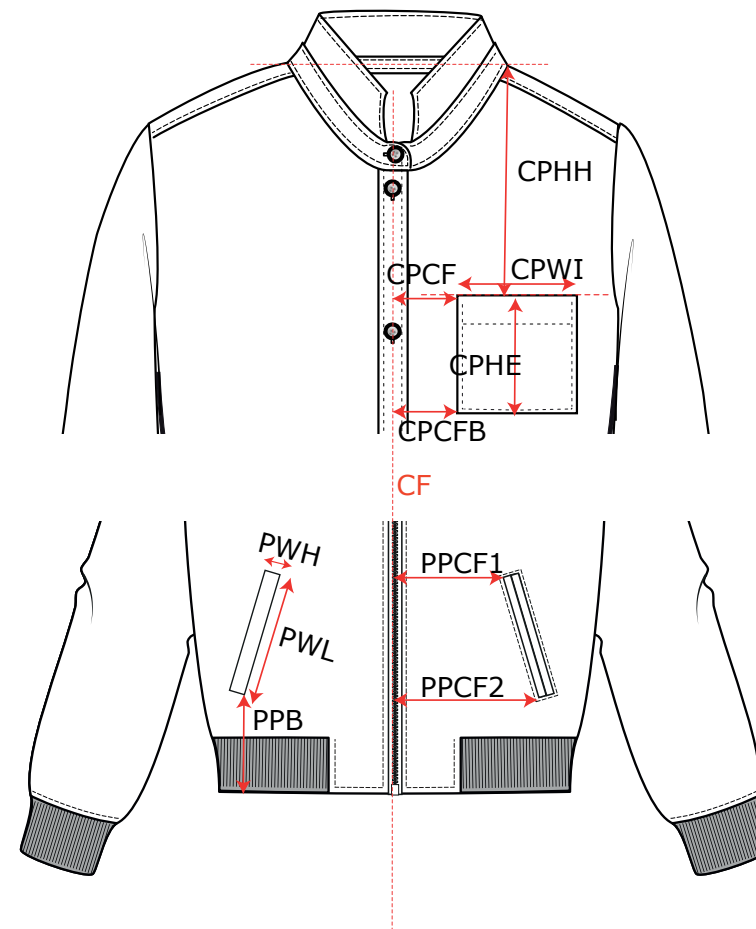
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HOW TO MEASURE:		POCKETS		AMERICA TODAY		ms mode		COOLCAT®	
DATE: 1 March 2022									
DESCRIPTION									
CPHH	CHEST POCKET HEIGHT FROM HSP	From HSP straight down to top of pocket							
CPHE	CHEST POCKET HEIGHT	Total height of the pocket mrd in center							
CPCF	CHEST POCKET POSITION FROM CF	From CF straight to seam of pocket							
CPCFB	CHEST POCKET POSITION FROM CF BOTTOM	From CF straight to seam of pocket bottom							
CPWI	CHEST POCKET WIDTH	The width of the pocket edge to edge							
PWH	POCKET WELT HEIGHT	The height of the welt							
PWL	POCKET WELT LENGHT	The lenght of the welt							
PPB	POCKET POSITION FROM BOTTOM EDGE	Up from bottom edge to pocket seam/stitch							
PPCF1	POCKET POSITION FROM CF TOP	From cf straight to seam of top of pocket							
PPCF2	POCKET POSITION FROM CF BOTTOM	From cf straight to seam of bottom of pocket							

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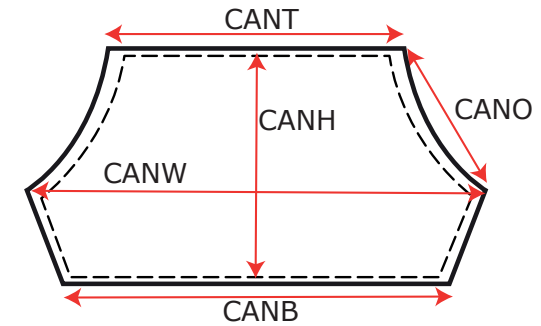
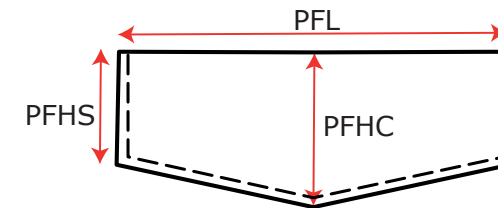
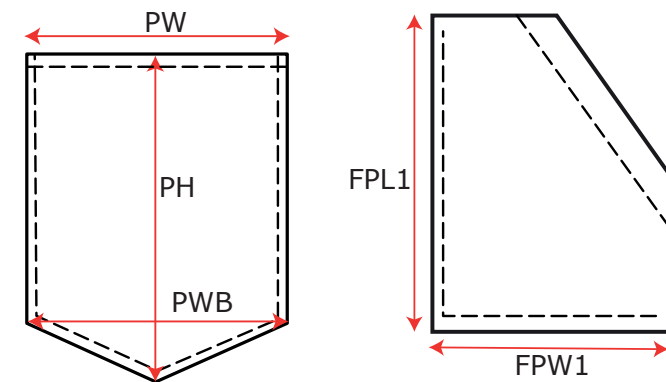


HOW TO MEASURE:		POCKETS
DATE: 1 March 2022		
DESCRIPTION		
PW	POCKET WIDTH	From edge to edge on top / opening
PH	POCKET HEIGHT	Pocket height at center
PWB	POCKET WIDTH BOTTOM	From edge to edge at bottom
PFL	POCKET FLAP LENGTH	Length of the pocket flap
PFHS	POCKET FLAP HEIGHT SIDE	Length of side pocket flap
PFHC	POCKET FLAP HEIGHT CENTER	Length of center pocket flap
CANB	CANGAROO POCKET WIDTH BOTTOM	Total width of the kangaroo pocket on bottom
CANH	CANGAROO POCKET HEIGHT	Total height in the center of kangaroo pocket
CANO	CANGAROO POCKET OPENING	Pocket opening straight measured
CANT	CANGAROO POCKET WIDTH ON TOP	Total width of the kangaroo pocket on top
CANW	CANGAROO POCKET WIDTH WIDEST PART	Total width of the kangaroo pocket on widest
FPL1	FRONT POCKET LENGTH TOTAL	Total length of the pocket longest part
FPW1	FRONT POCKET WIDTH TOTAL	Total width of the pocket widest part

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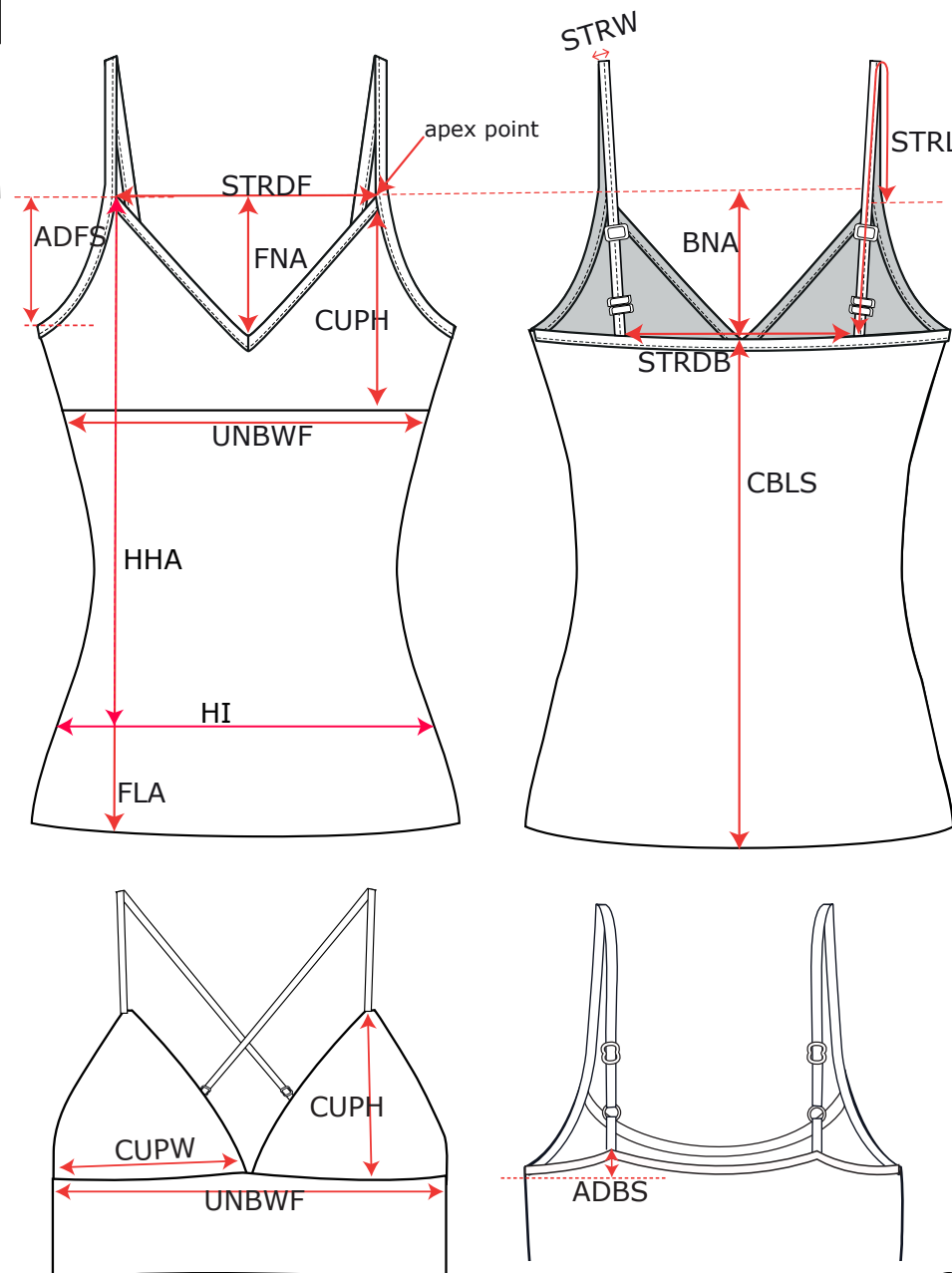


HOW TO MEASURE:		TOP - STRAPS / SPAGHETTI
DATE: 1 March 2022		
DESCRIPTION		
STRDF	STRAP DISTANCE FRONT	Straight across front strap join/apex to front join/apex
STRDB	STRAP DISTANCE BACK	Straight across back strap join/apex to back strap join/apex
FNA	FRONT NECK DROP FROM APEX/JOIN	From strap join (apex) to CFP
BNA	BACK NECK DROP FROM APEX/JOIN	From strap join (apex) to CBP
ADFS	ARMHOLE DEPTH FRONT FROM APEX POINT	From apex straight down to armpit
ADBS	ARMHOLE DEPTH BACK FROM APEX/JOIN	From apex straight down to armpit
STRL	STRAP LENGTH	From front seam join/apex to back seam join/apex (incl. eventual slider/ring and X CM overlap)
STRW	STRAP WIDTH	The width of the shoulder strap itself
CUPH	CUP HEIGHT	From apex/join down to cut seam
CUPW	CUP WIDTH	The total width of the cup incl. bust space
UNBW	UNDER BUST WIDTH	Straight across from side to side on cut seam under bust
HHA	HIP HEIGHT FROM APEX/JOIN	From apex/join down to indicated hip position
HI	1/2 HIP WIDTH STRAIGHT MRD	Straight across from side to side (on the fold) at the indicated hip position from HSP
FLA	FRONT LENGTH FROM APEX/JOIN	From strap join/apex straight to bottom hem
CBLS	CENTER BACK LENGTH STRAP TOPS	At center of back panel from top to bottom edge

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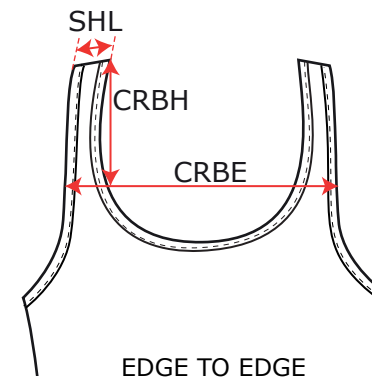
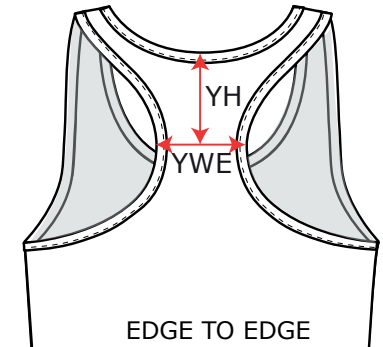
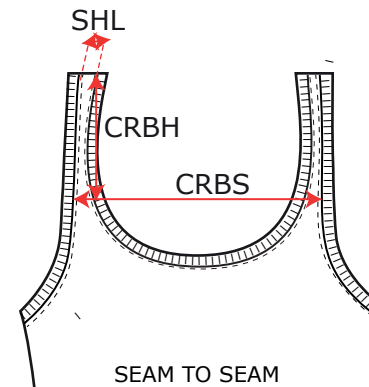
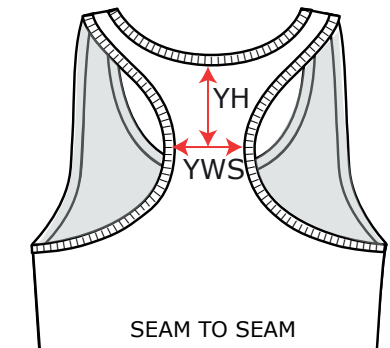
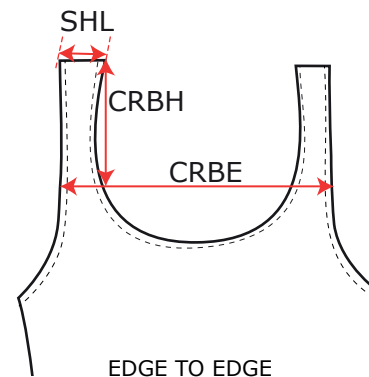
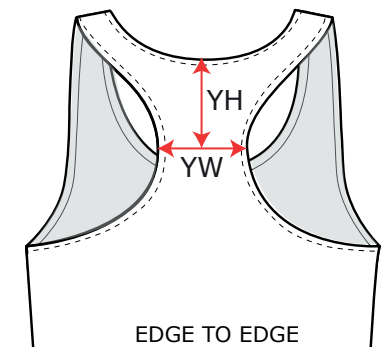


HOW TO MEASURE:		TOP - SINGLET BACK - Y/RACER BACK
DATE: 1 March 2022		
DESCRIPTION		
CRBH	CROSS BACK HEIGHT	From HSP (edge or seam) X distance straight down to cross back height
CRBE	CROSS BACK EDGE TO EDGE	At cross back height measure straight across, edge to edge
CRBS	CROSS BACK SEAM TO SEAM	At cross back height measure straight across, seam to seam
SHL	SHOULDER LENGTH	Measure at top fold of garment shoulder from seam to seam / edge to edge
YH	Y BACK/RACER BACK HEIGHT	From CBP straight down to Y/racer back width
YW	Y BACK/RACER BACK WIDTH	Straight down from CBP to Y-height, measure straight across garment
YWS	Y BACK/RACER BACK WIDTH SEAM TO SEAM	Straight down from CBP to Y-height, measure straight across garment seam to seam

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BODY'S, UNDERWEAR & SWIM

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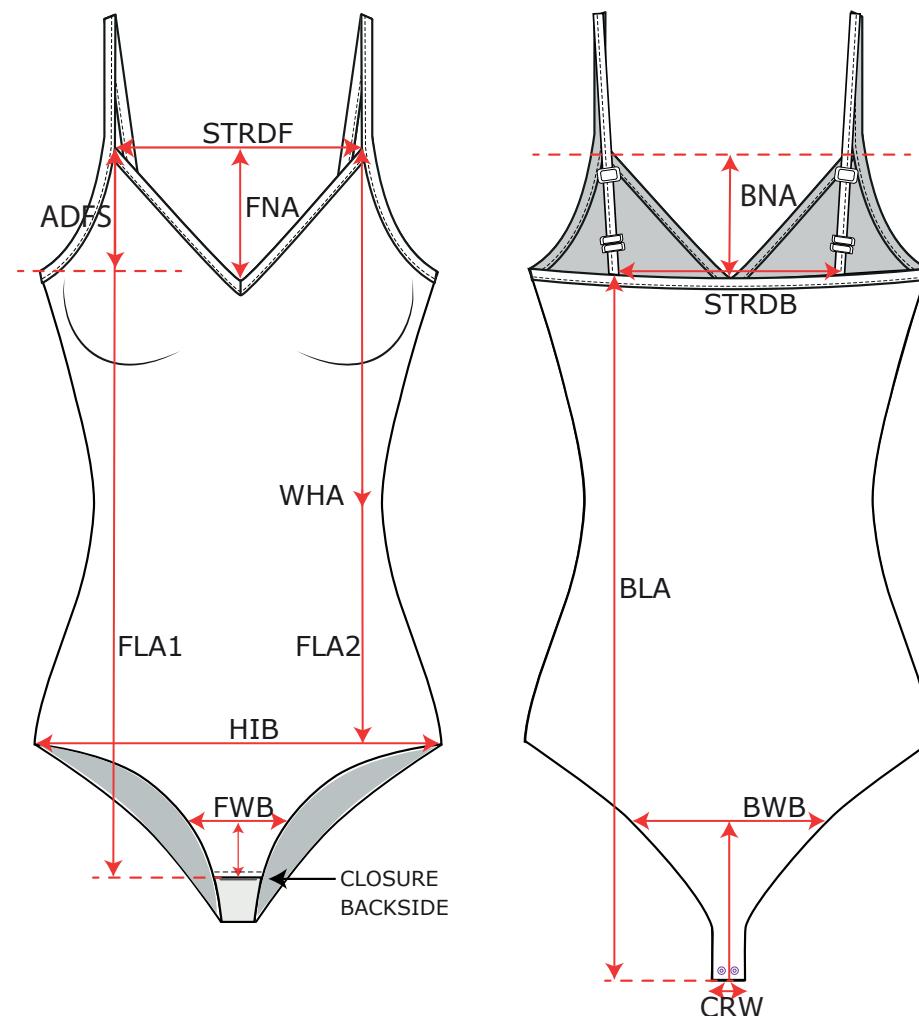
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HOW TO MEASURE:		BODY WITH STRAPS
DATE: 1 March 2022		
FLA1	FRONT LENGTH FROM APEX UNTIL CLOSURE	From apex straight down till closure
FLA2	FRONT LENGTH APEX TILL HIP	From apex at back down till hip height
BLA	BACK LENGTH FROM APEX UNTIL CLOSURE	From apex straight down until closure
WHA	WAIST HEIGHT FROM APEX	Straight down from apex to indicated waist position
HIB	1/2 HIP AT BRIEF	Straight across from side to side on the fold at brief
FWB	FRONT WIDTH BRIEF	Width of brief X cm up from bottom seam of edge closure
CRW	CROTCH WIDTH CLOSURE	Width from side tot side closure
BWB	BACK WIDTH BRIEF	Width of brief X cm up from edge closure or crotch seam
FNA	FRONT NECK DROP FROM APEX/ JOIN	From strap join (apex) to CFP
BNA	BACK NECK DROP FROM APEX/ JOIN	From strap join (apex) to CBP
STRDF	STRAP DISTANCE FRONT	Straight across front strap join/apex to front join/apex
STRDB	STRAP DISTANCE BACK	Straight across back strap join/apex to front strap join/apex
ADFS	ARMHOLE DEPTH FRONT FROM APEX POINT	From apex straight down to armpit

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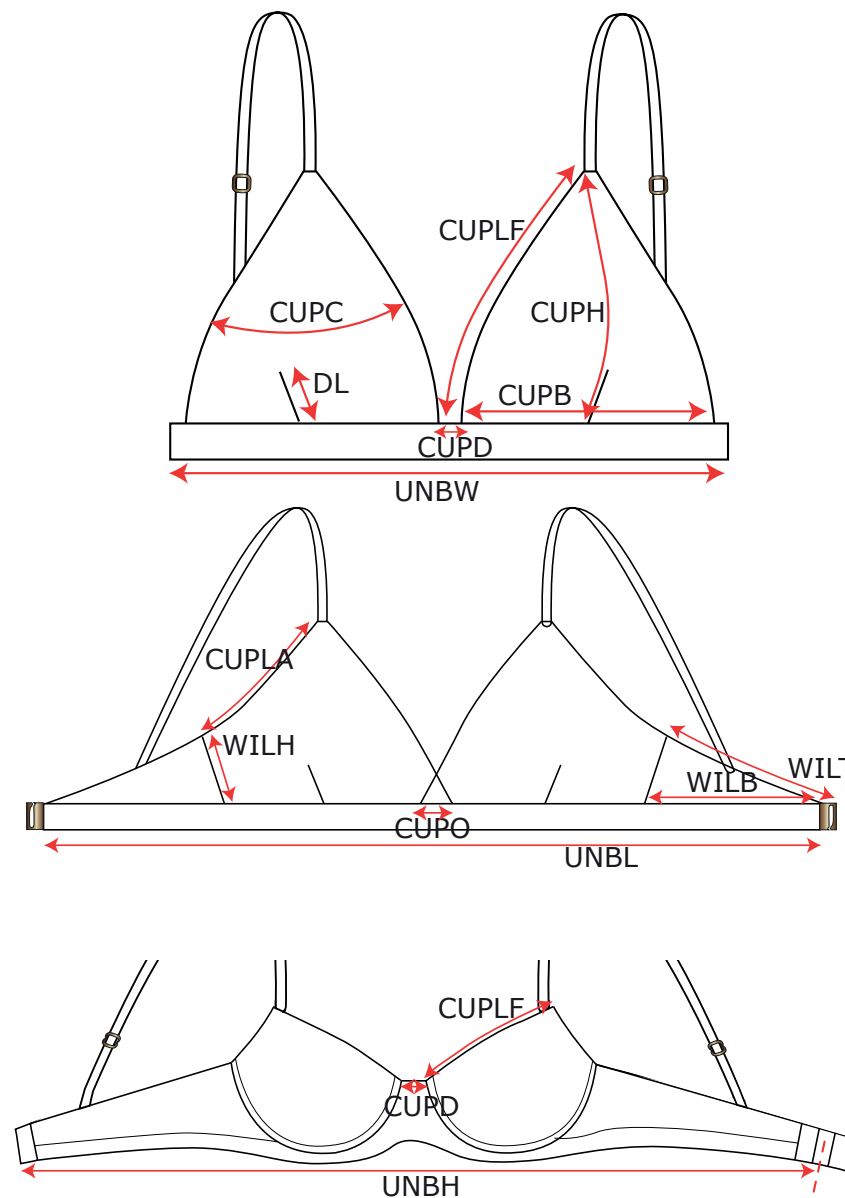


HOW TO MEASURE:		BODYWEAR - BRA TOPS
DATE: 1 March 2022		
CUPC	CUP WIDTH CENTER OF CUP	From edge to edge on centre of cup or x position measure incl. bustspace
CUPD	CUP DISTANCE CF	Distance between the cups on center front
CUPH	CUP HEIGHT	From apex/join down to cutseam incl. bust space
CUPLF	CUP LENGTH EDGE FRONT	From apex/join along edge to center front
CUPLA	CUP LENGTH EDGE ARMHOLE	From apex/join along edge to armpit
CUPO	CUP OVERLAP CF	The overlap of the cup on centerfront
DL	DARTLENGTH	Length of the dart seam
WILT	WING LENGTH AT TOP	From armpit to edge excl. buckle
WILB	WING LENGTH AT BOTTOM	From sideseam to edge excl. buckle
WILH	WING HEIGHT	From armpit down to bottom at side seam
UNBL	UNDER BUST LENGTH EXCL BUCKLE	Total length of the under bust excl. buckle
UNBH	UNDER BUST LENGTH CENTER HOOK & EYE	From hook along the bottom edge to the center of the eye on closure
UNBW	1/2 UNDERBUST WIDTH	Straight across from side to side (on the fold)

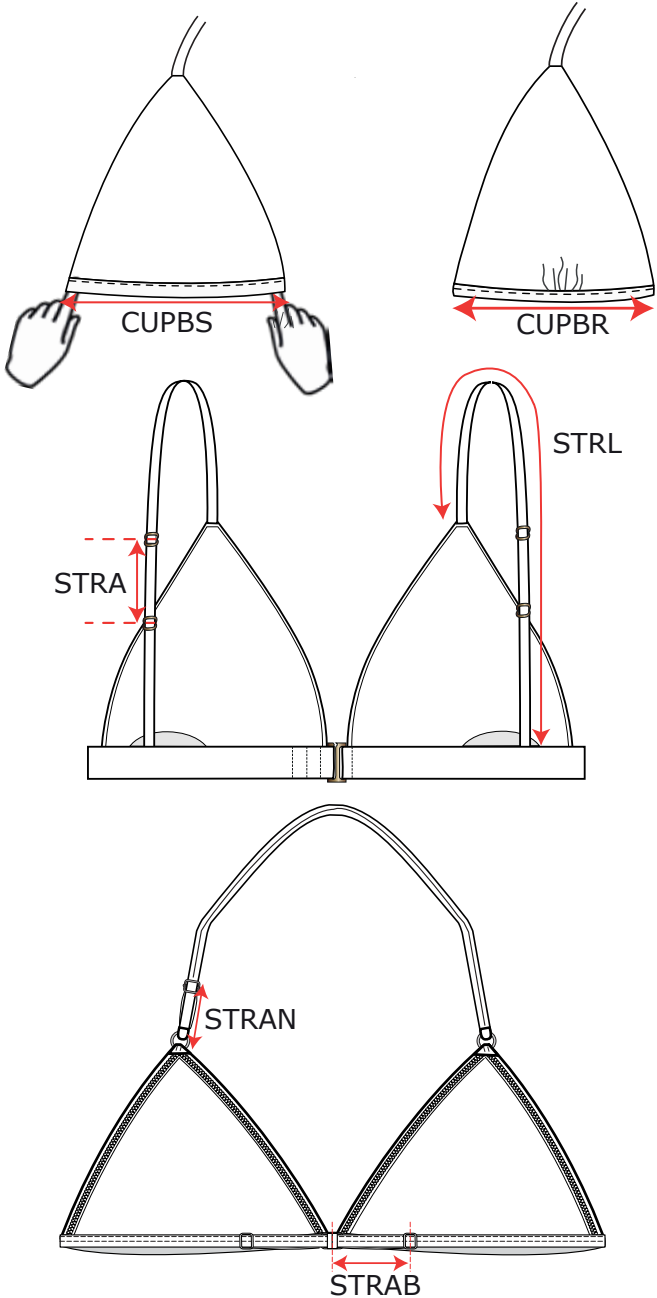
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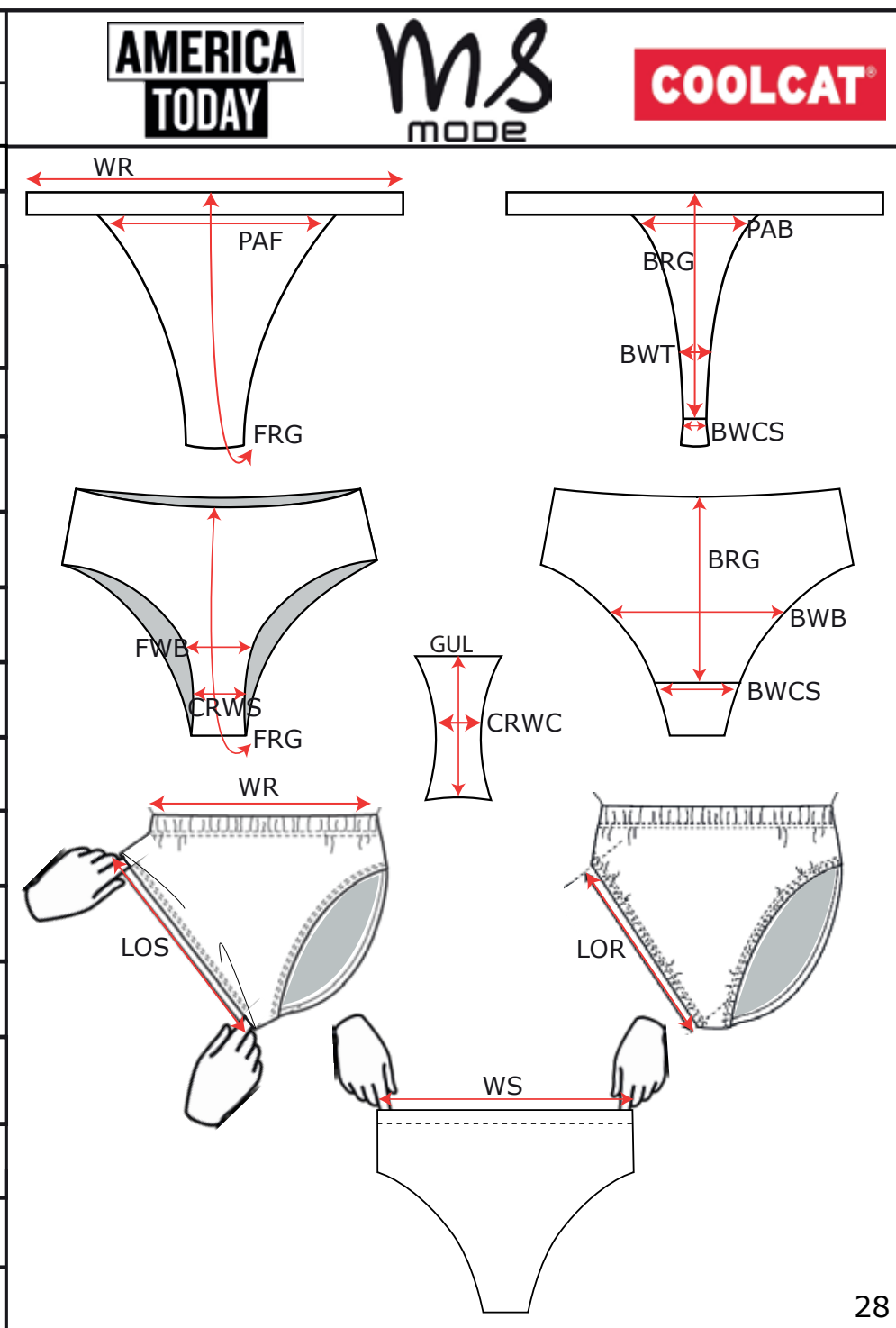
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HOW TO MEASURE:		BODYWEAR - BRA TOPS
DATE: 1 March 2022		
CUPBR	CUP WIDTH BOTTOM OF CUP RELAXED	From edge to edge bottom of cup relaxed
CUPBS	CUP WIDTH BOTTOM OF CUP STRETCHED	From edge to edge bottom cup stretched pattern
STRL	STRAP LENGTH INCL OVERLAP	Measure from apex along the strap to end when the overlap is on indicated position
STRA	STRAP ADJUSTER OVERLAP	Total length of overlap on strap
STRAB	STRAP ADJUSTER OVERLAP BACK	Total length of overlap on back strap
STRAN	STRAP ADJUSTER OVERLAP NECK	Total length of overlap on neck strap



HOW TO MEASURE:		BRIEFS
DATE: 1 March 2022		
DESCRIPTION		
WR	1/2 WAIST RELAXED UNDERWEAR	Along top edge of relaxed waistband, inside to inside edge. Make sure waistband edges front and back are at same level.
WS	1/2 WAIST STRETCHED UNDERWEAR	Stretch to full extension of fabric (pattern measurement). Measure along top edge of waistband, inside to inside edge. Make sure waistband edges front and back are at same level
FRG	FRONTRISE INCL WB INCL GUSSET	At center front waist down to crotch seam at back
BRG	BACKRISE INCL WB EXCL GUSSET	Back waist down to crotch seam
FWB	FRONT WIDTH BRIEF	Width of brief X cm up from crotch seam
BWB	BACK WIDTH BRIEF	Width of brief X cm up from crotch seam
BWT	BACK WIDTH THONG	Width of thong on back pant X cm up from crotch seam
BWCS	BACK WIDTH ON CROTCH SEAM	The total length of the back crotch seam from edge to edge
CRWC	CROTCH WIDTH AT CENTER GUSSET	From edge to edge at center of insert inside crotch
CRWS	CROTCH WIDTH AT SMALLEST PART	From edge to edge at smallest part of crotch
GUL	GUSSET LENGTH	Total length of the gusset/insert inside crotch of brief
LOS	1/2 LEG OPENING STRETCHED	Stretch the leg opening to the full extension of the fabric (pattern size). Along bottom edge, inseam fold to outseam fold
LOR	1/2 LEG OPENING RELAXED	Straight along relaxed bottom edge, inseam fold to outseam fold
PAF	PANEL WIDTH FRONT	The width of the front panel on top
PAB	PANEL WIDTH BACK	The width of the back panel on top



HOW TO MEASURE:		BOXERS - TRUNK		AMERICA TODAY		ms mode		COOLCAT®	
DATE: 1 March 2022									
DESCRIPTION									
WR	1/2 WAIST RELAXED UNDERWEAR	Along top edge of relaxed waistband, inside to inside edge. Make sure waistband edges front and back are at same level							
WS	1/2 WAIST STRETCHED PATTERN UNDERWEAR	Stretch to full extension of fabric (pattern measurement). Measure along top edge of waistband, inside to inside edge. Make sure waistband edges front and back are at same level.							
WBH	WAIST BAND HEIGHT	Waist band height							
FR	FRONT RISE	Lay garment flat, face up, do not stretch or pull straight. Measure along front rise curve from top of waist to crotch point							
BR	BACK RISE	Lay garment flat, face down, do not stretch or pull straight. Measure along the back rise curve from top of waist to crotch point.							
GUL	GUSSET LENGHT	Total length of the insert at crotch							
GUW	GUSSET WIDTH	Total width of the insert at crotch							
OSL	OUT SEAM LENGTH INCL WB	Total length of the side incl. waist b and							
HHF	HIP HEIGHT AT CF (INCL WB)	Straight down from top to waist edge to indicated position(including waistband) at center front							
HWS	1/2 HIP WIDTH INCL FULL SPACE V-SHAPE MEASURED	Across garment from indicated hip position at side seam fold to indicated position at CF to indicated position side seam fold (v-shape)							
PAS	PANEL WIDTH SIDE	The total width of the side panel							

The diagram illustrates the measurement points for boxer trunks. The front view shows measurements for WR (Waist Relaxed), WS (Waist Stretched), WBH (Waist Band Height), FR (Front Rise), GUL (Gusset Length), GUW (Gusset Width), PAS (Panel Width Side), and OSL (Out Seam Length). The back view shows measurements for BR (Back Rise) and HHF (Hip Height at Center Front). The side view shows measurements for HWS (Half Waist Side) and PAS (Panel Width Side).

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BOTTOMS

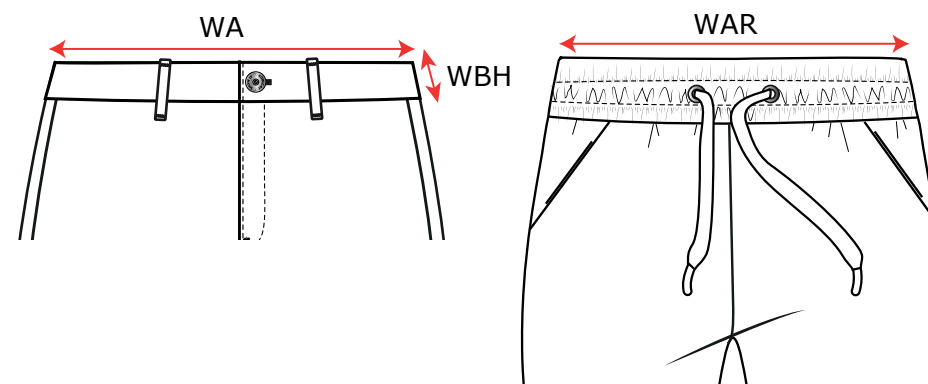
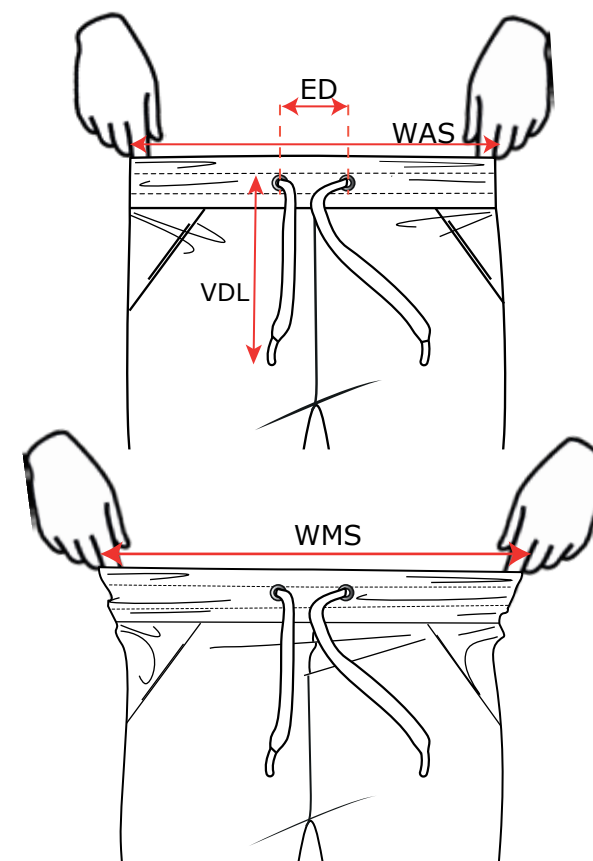


HOW TO MEASURE:		BOTTOM - WAIST
DATE: 1 March 2022		
DESCRIPTION		
WBH	WAISTBAND HEIGHT	Straight down from top waistband edge to waistband seam
WA	1/2 WAIST RIGID AND OR MINIMAL FULLNESS	Along top edge of waistband, outside to outside edge. Make sure waistband edges front and back are at same level no dipping at center front, closure is fastened, waistband drawstring loose
WAR	1/2 WAIST RELAXED	Along top edge of relaxed waistband, inside to inside edge. Make sure waistband edges front and back are at same level no dipping at center closure is fastened
WAS	1/2 WAIST STRETCHED	Stretch to full extension of fabric (pattern measurement). Measure along top edge of waistband, inside to inside edge. Make sure waistband edges front and back are at same level no dipping at center front, closure is fastened, waistband drawstring loose
VDL	VISIBLE DRAWSTRING LENGTH	When waist relaxed the visible part of the drawstring length
WMS	1/2 WAIST MAXIMUM STRETCHED	Stretch to maximum extension of (stretch) fabric. Measure along top edge of waistband, inside to inside edge. Make sure waistband edges front and back are at same level no dipping at center front, closure is fastened, waistband drawstring loose
ED	EYELET DISTANCE	Distance between the eyelet / hole measured center to center

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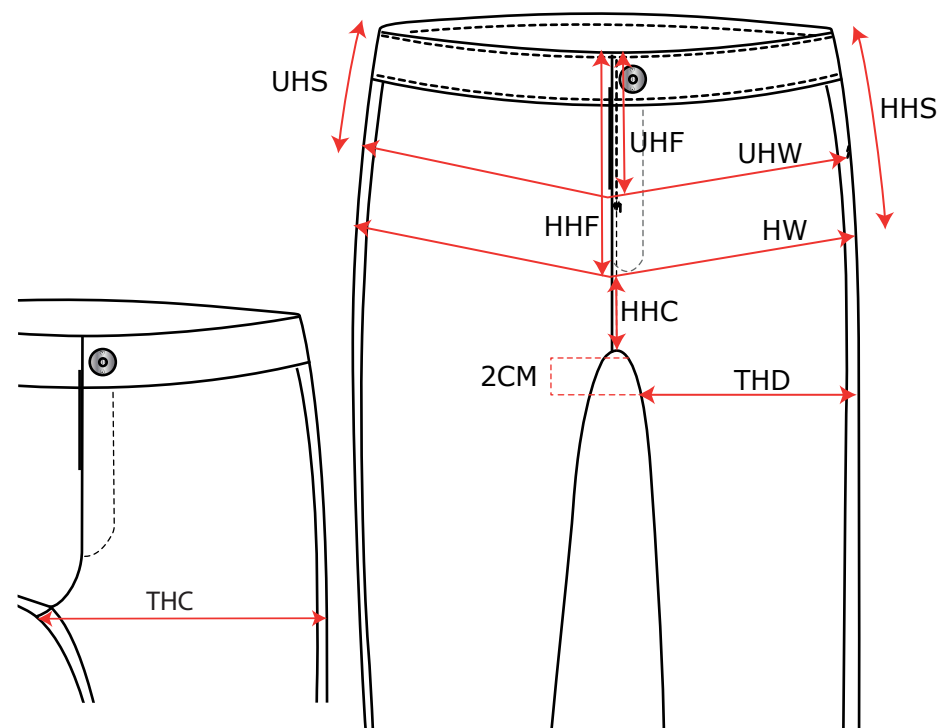
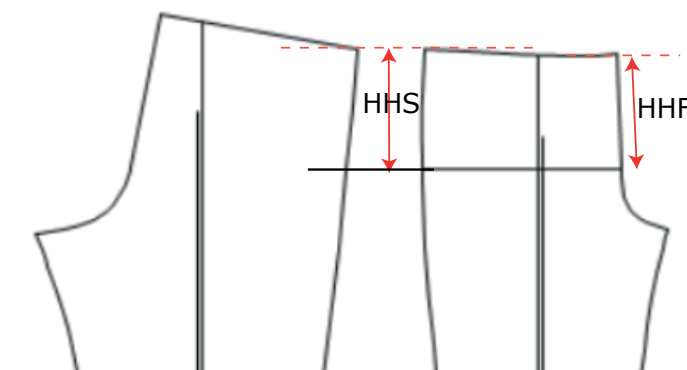


HOW TO MEASURE:		BOTTOM - HIP
DATE: 1 March 2022		
DESCRIPTION		
UHS	UPPER HIP HEIGHT AT SIDE SEAM	Straight down from top of waist edge to indicated position (including waistband) over side seam fold
UHF	UPPER HIP HEIGHT CF	Straight down from CFP at top of waist edge to indicated position (incl. waistband) at CF
UHW	1/2 UPPER HIP WIDTH V-SHAPE MRD	Across garment from indicated upper hip position at side seam fold to indicated position at CF to indicated position side seam fold (v-shape)
HHS	HIP HEIGHT AT SIDE SEAM	Straight down from top of waist edge to indicated position (including waistband) over side seam fold
HHF	HIP HEIGHT AT CF	Straight down from top to waist edge to indicated position(including waistband) at center front
HW	1/2 HIP WIDTH V-SHAPE MRD	Across garment from indicated hip position at side seam fold to indicated position at CF to indicated position side seam fold (v-shape)
THD	1/2 THIGH WIDTH	2cm below rise, straight across leg from inseam fold to outseam fold
HHC	HIP HEIGHT FROM CROTCH AT FRONTRISE	From crotch point up, along the frontrise seam
THC	1/2 THIGH WIDTH FROM CROTCH	from crotch straight across leg from inseam fold to outseam fold

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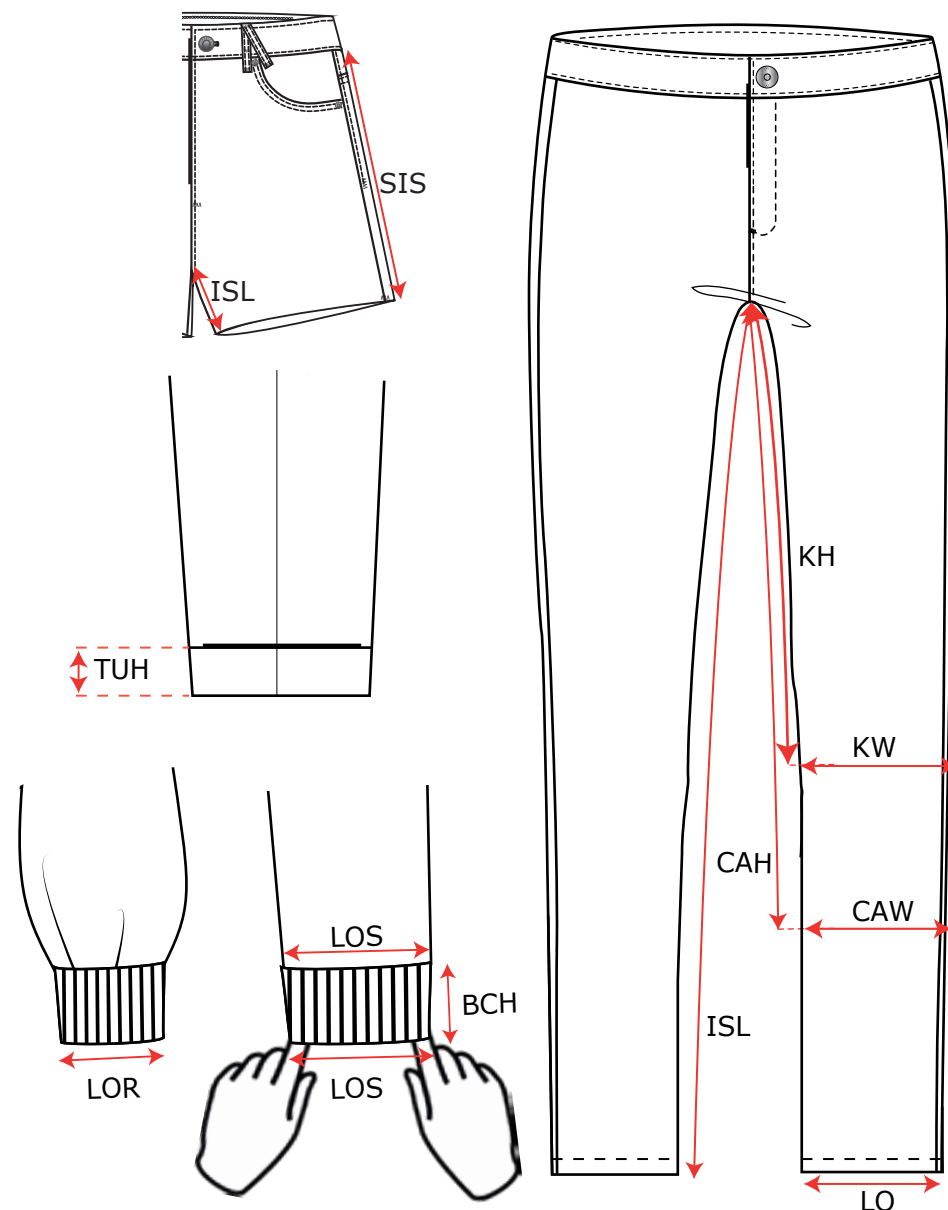


HOW TO MEASURE:		BOTTOM - LEG
DATE: 1 March 2022		
DESCRIPTION		
KH	KNEE HEIGHT	Along inseam down from crotch point to indicated knee position
KW	1/2 KNEE WIDTH	At knee height straight across leg, inseam fold to out seam fold
CAH	CALF HEIGHT	Along inseam down from crotch point to indicated position
CAW	1/2 CALF WIDTH	At calf height straight across leg, inseam fold to out seam fold
LO	1/2 LEG OPENING	Straight along bottom edge from side to side.
LOR	1/2 LEG OPENING RELAXED	Straight along relaxed bottom edge, inseam fold to outseam fold
LOS	1/2 LEG OPENING STRETCHED	Stretch the leg opening to the full extension of the fabric (pattern size). Along bottom edge, inseam fold to outseam fold
ISL	INSEAM LENGTH	Along inseam from crotch point until bottom hem edge
BCH	BOTTOM CUFF HEIGHT	The total height of the bottom cuff
TUH	TURN-UP HEIGHT	At center front leg opening from edge of turn-up to pressed bottom
SIS	SIDE SEAM LENGTH	Total length of the side seam from waistband seam to edge of leg opening

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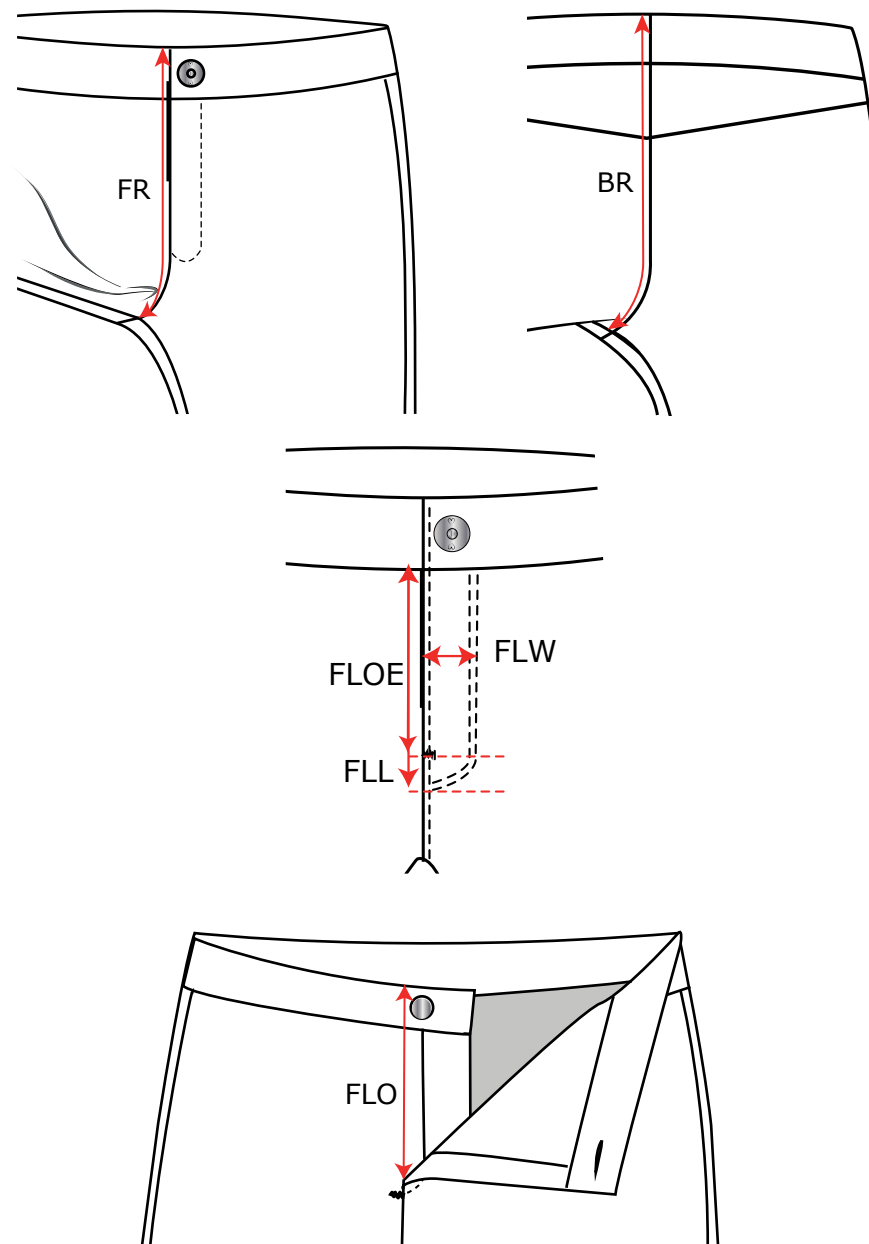


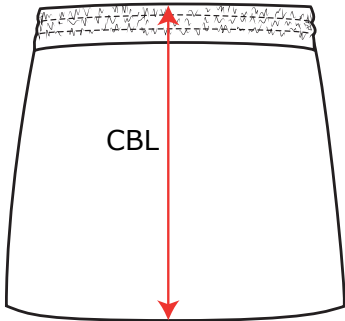
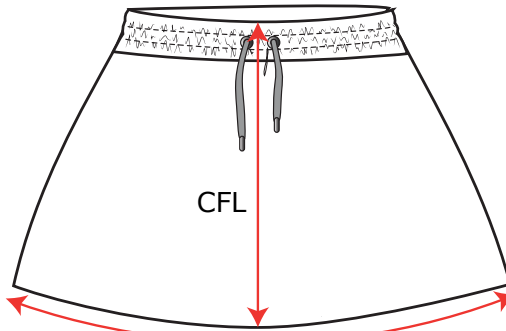
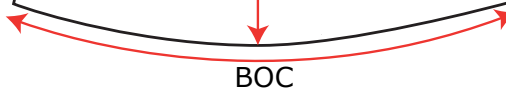
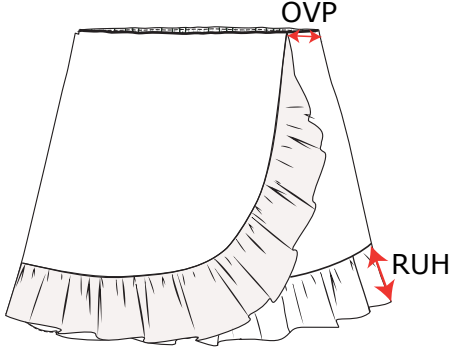
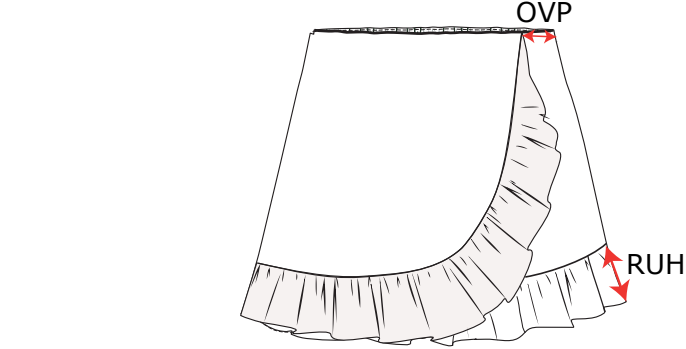
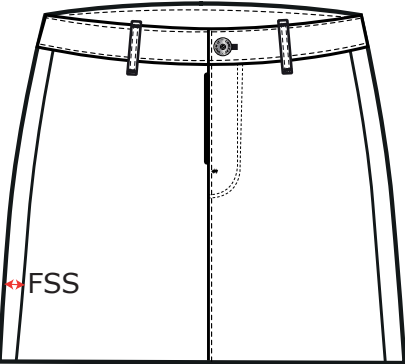
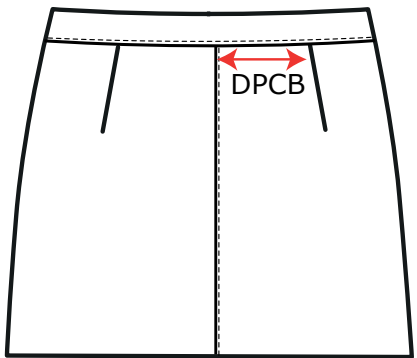
HOW TO MEASURE:		BOTTOM - RISES
DATE: 1 March 2022		
DESCRIPTION		
FR	FRONT RISE	Lay garment flat, face up, do not stretch or pull straight. Measure along front rise curve from top of waist to crotch point
BR	BACK RISE	Lay garment flat, face down, do not stretch or pull straight. Measure along the back rise curve from top of waist to crotch point.
FLO	FLY OPENING INCL WB	Closure open. From top of waist to top of zipper slider or to bottom fly opening
FLL	FLY LENGTH STITCHES	From waistband seam to lowest stitch line
FLW	FLY WIDTH	From edge of fly to outside stitch
FLOE	FLY OPENING EXCL WB	Closure open. From waistband seam to bottom of opening

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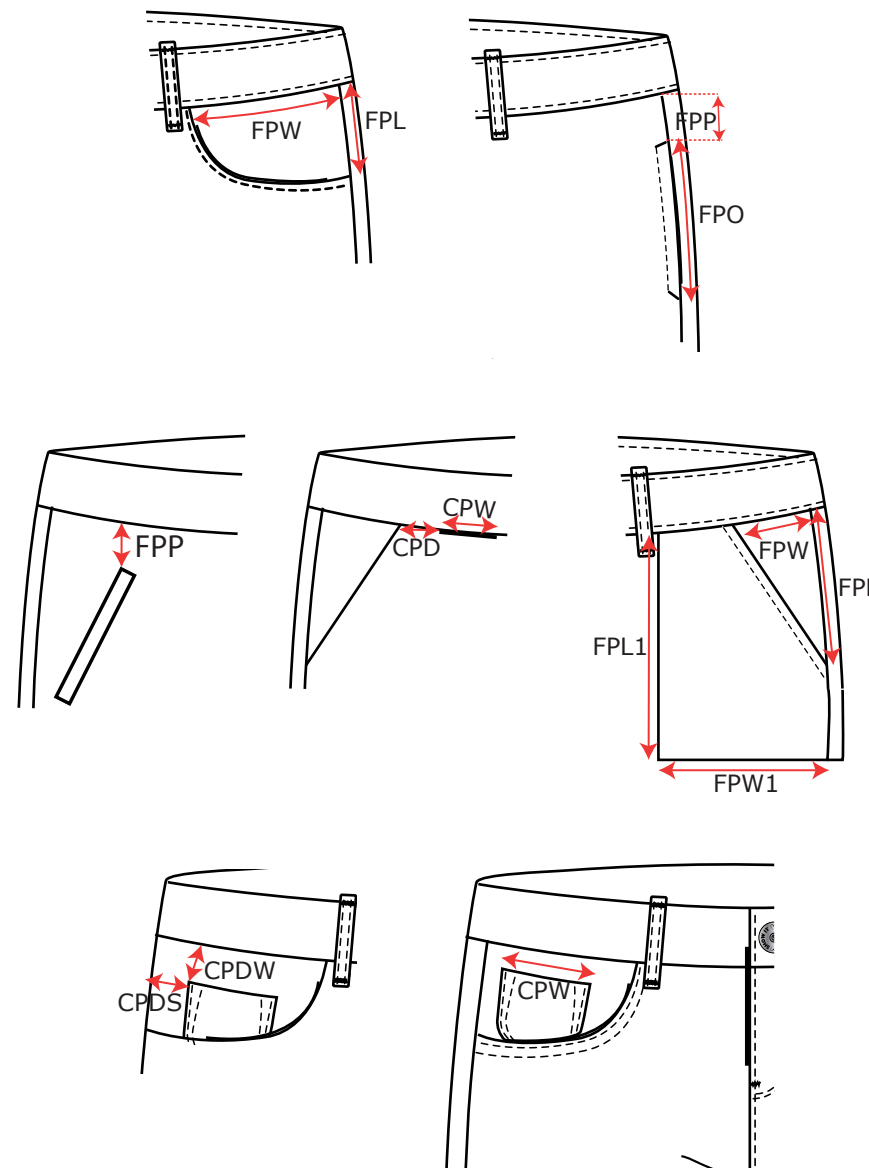
HOW TO MEASURE:		SKIRT		AMERICA TODAY		ms mode		COOLCAT®	
DATE: 1 March 2022									
DESCRIPTION									
CBL	CENTER BACK LENGTH INCL. WAIST BAND	From CBP at edge of waist straight down to bottom hem							
CFL	CENTER FRONT LENGTH INCL. WAIST BAND	From CFP at edge of waist straight down to bottom hem							
BO	1/2 BOTTOM WIDTH STRAIGHT	Straight across bottom edge of garment, outside edge to outside edge							
BOC	1/2 BOTTOM WIDTH CURVED	Along curve of hem, outside edge to outside edge							
DPCB	DART POSITION FROM CB	From centerback straight to dart position along the waist seam							
FSS	FORWARDED SIDESEAM	From side to forwarded side seam							
RUH	RUFFLE HEIGHT	Total height of the ruffle							
OVP	OVERLAP POSITION FROM SIDESEAM	From side seam to edge of overlap along waistseam							
									

HOW TO MEASURE:		BOTTOM - FRONT POCKETS
DATE: 1 March 2022		
DESCRIPTION		
FPW	FRONT POCKET WIDTH	From pocket seam to side seam along WB seam
FPL	FRONT POCKET LENGTH	From bottom waistband down to pocket edge at side seam
FPO	FRONT POCKET OPENING	Pocket opening along pocket edge
CPW	COIN POCKET WIDTH	Along hem, outside edge to outside edge
FPP	FRONT POCKET POSITION FROM WB	From bottom waistband down to pocket along sideseam
FPL1	FRONT POCKET LENGTH TOTAL	From bottom waistband down to bottom of patch pocket
FPW1	FRONT POCKET WIDTH TOTAL	From side seam to edge of patch pocket widest part
CPDW	COIN POCKET DISTANCE FROM WB	Straight/ vertical from waistband attachment seam to coin pocket to edge near sideseam
CPDS	COIN POCKET DISTANCE FROM SIDESEAM	Straight/ horizontal from sideseam to coinpocket side top edge
CPD	COIN POCKET DISTANCE FROM POCKET OPENING	From edge pocket opening to edge coin pocket along waistband

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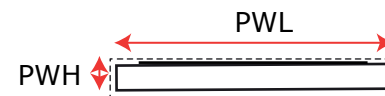
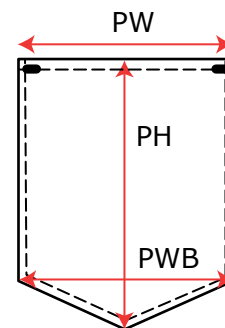
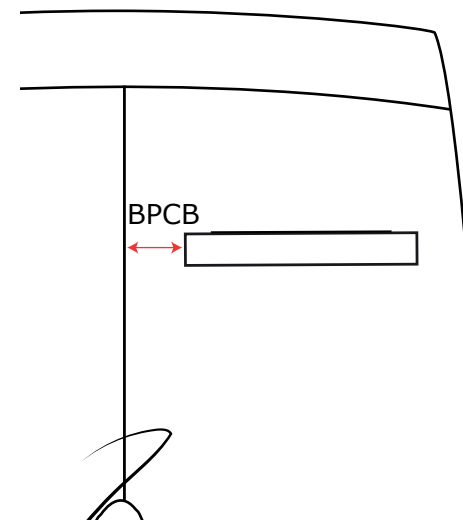
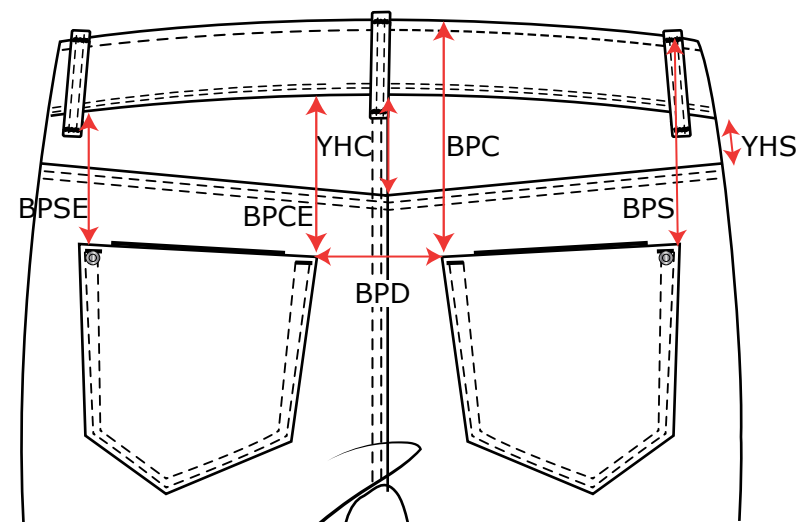


HOW TO MEASURE:		BOTTOM - POCKETS - YOKE
DATE: 1 March 2022		
DESCRIPTION		
PW	POCKET WIDTH	From edge to edge at pocket insert
PWB	POCKET WIDTH BOTTOM	From edge to edge at bottom
PH	POCKET HEIGHT	Pocket height at center
YHC	YOKE HEIGHT AT CB	Yoke height at CB (seam)
YHS	YOKE HEIGHT AT SIDE SEAM	Yoke height along side seam
BPD	BACK POCKET DISTANCE	Distance between back pockets
BPC	BACK POCKET POSITION CB SIDE INCL WB	From waistband edge down to top of pocket at CB side
BPS	BACK POCKET POSITION AT SIDE SEAM INCL WB	From waistband edge down to top of pocket at side seam side
BPCB	BACK POCKET POSITION FROM CB	From CB till edge of pocket
BPCE	BACK POCKET POSITION CB SIDE EXCL. WB	From waistband seam down to top of pocket at cb side
BPSE	BACK POCKET POSITION AT SIDE SEAM EXCL. WB	From waistband seam down to top of pocket at side seam side
PWL	POCKET WELT LENGTH	Total length of the welt pocket
PWH	POCKET WELT HEIGHT	Total height of the welt

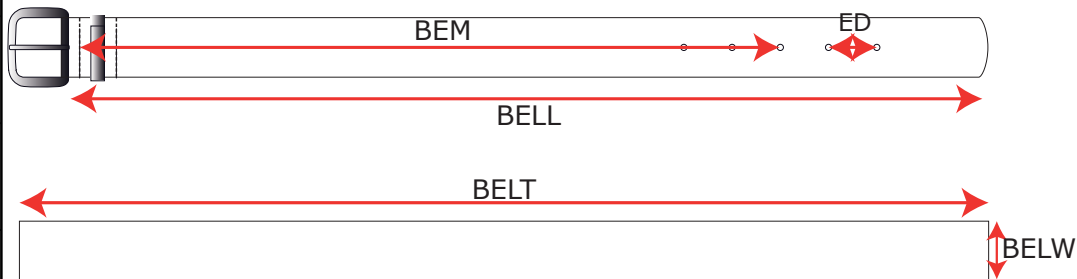
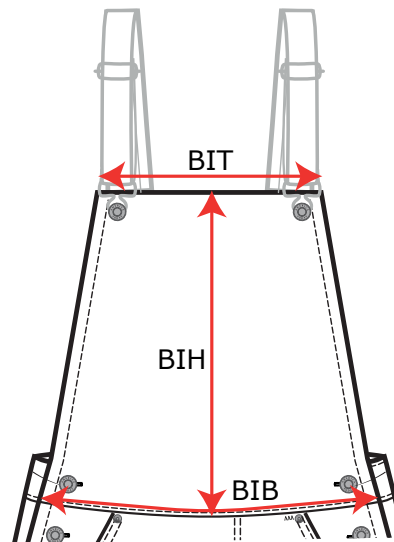
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HOW TO MEASURE:		BOTTOM - DETAILS
DATE: 1 March 2022		
DESCRIPTION		
BIB	BIB WIDTH BOTTOM	Total width of bib on bottom
BIH	BIB HEIGHT CENTER	Total height of bib in center
BIT	BIB WIDTH TOP	Total width of bib on top
BELT	BELT LENGHT	Total length of belt from edge to edge
BELW	BELT WIDTH	Total width of belt
BELL	BELT LENGTH EXCL. BUCKLE	Total length of belt excl. buckle
BEM	BELT MIDDLE EYELET	From edge to center of middle eyelet
ED	EYELET DISTANCE	Distance between the eyelet / hole measured center to center

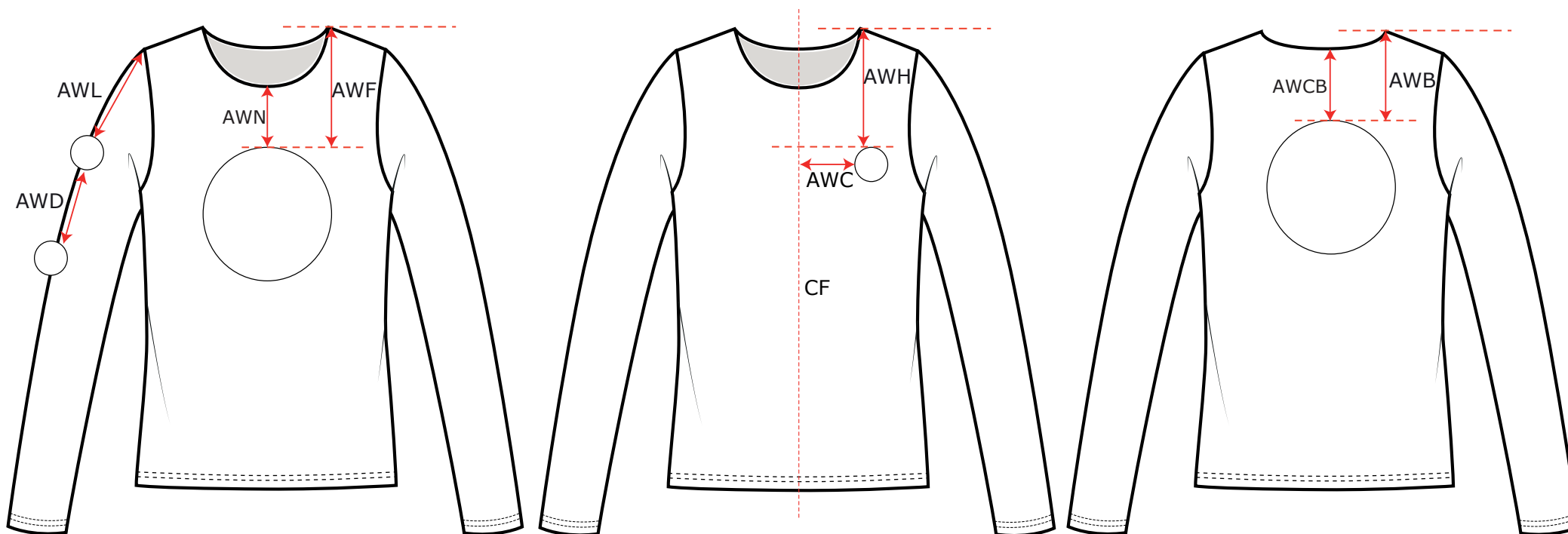


HOW TO MEASURE:

ARTWORK POSITIONS

DATE: 1 March 2022

TOPS

**AMERICA
TODAY****ms**
mode**COOLCAT®****DESCRIPTION**

AWF	ARTWORK POSITION FROM HSP CHEST CF	From HSP straight down to top of artwork center front
AWH	ARTWORK POSITION FROM HSP CHEST	From HSP straight down to top of artwork left or right chest
AWC	ARTWORK POSITION FROM CF	From CF straight to artwork left or right chest
AWL	ARTWORK POSITION SLEEVE	From LSP straight to artwork
AWB	ARTWORK POSITION FROM HSP BACK	Center back neck line straight down artwork
ACB	ARTWORK POSITION FROM NECKLINE CB	From side seam straight to artwork
AWD	ARTWORK DISTANCE	Straight from edge artwork to edge of next artwork
AWN	ARTWORK POSITION FROM NECKLINE CF	Center front neck line straight down artwork

APENDIX - ADDITIONS - UPDATES

Date - 1 July 2019
version - 1
Discription - n/a

Date - 14 November 2019
version - 2
Discription - Update of some codes and descriptions to avoid overlaps for PLM

Date - 1 March 2022
version - 3
Discription - Updated measurepoints and added body wear

