

Looking for help beyond the quick reference chart?

Some measurements used for custom (not available) build only have been left blank. Stock suits are built to fit a wider range of people. Your own measurement may not be exact match.

P. 2-3

Base measurements used to build stock size suits. The numbers on right hand side of chart are for use with pages 3-4.

P. 3

Detailed description of how each measurement would be taken for custom fit.

P. 4

Point to point drawings of how each measurement would be taken for custom fit.

P. 5-6

Metric version of P. 2.3.

Note: Full custom option not available at this time.

Imperial: P. 1-4

Metric: P. 3-6

Ready made size (04.26.2010)

Updated: May 14, 2013

Added Imperial & Custom Suit Notes

Female Size: P.2

Measurement Description: P. 3

Measurement Drawing: P.4

| IMPERIAL (USA) | | Male | | | | | |
|----------------|-----------------------------------|--|--------------|---------------|---------------------|----------------------|--------------|
| NO | SIZE | S | M | ML | L | XL | XXL |
| 1 | HEIGHT | 5'5 - 5'7 | 5'7 - 5'9 | 5'8 - 5'10 | 5'10 - 6'1 | 6'1 - 6'3 | 6'3 - 6'5 |
| 2 | WEIGHT (KGS) | 140 - 160 | 150 - 170 | 180 - 200 | 190 - 210 | 210 - 230 | 230 - 250 |
| 3 | GENERAL HEIGHT | | | | | | |
| 4 | NECK MEASUREMENT | 14.6 | 15.0 | 15.4 | 15.7 | 16.1 | 16.5 |
| 5 | BACK HEIGHT (TO ANUS) | 25.2 | 26.0 | 26.8 | 28.0 | 29.1 | 30.3 |
| 6 | TOP BUST/UPPER CHEST | 35.6 | 36.8 | 38.0 | 39.6 | 40.7 | 42.7 |
| 7 | BUST MEASUREMENT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 | ABDOMINAL MEASUREMENT | 31.7 | 32.9 | 34.1 | 35.2 | 36.4 | 37.6 |
| 9 | LOWER ABDOMINAL MEASUREMENT | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | BUTTOCK CIRCUMFERENCE | 37.0 | 37.8 | 38.6 | 39.4 | 40.9 | 42.5 |
| 11 | SHOULDER WIDTH | 17.3 | 18.1 | 18.9 | 18.9 | 19.7 | 19.7 |
| 12 | SLEEVE LENGTH | 29.1 | 29.9 | 30.7 | 31.5 | 32.3 | 33.1 |
| 13 | ARM LENGTH | 20.5 | 20.9 | 21.3 | 22.0 | 22.4 | 23.2 |
| 14 | SHOULDER JOINT | 16.5 | 16.9 | 17.7 | 18.1 | 18.9 | 19.7 |
| 15 | UPPER ARM CIRCUMFERENCE | | | | | | |
| 16 | BICEPS CIRCUMFERENCE | | | | | | |
| 17 | ELBOW CIRCUMFERENCE | | | | | | |
| 18 | FOREARM | 10.6 | 11.0 | 11.4 | 12.2 | 12.6 | 13.0 |
| 19 | WRIST | 6.7 | 7.1 | 7.1 | 7.5 | 7.9 | 8.3 |
| 20 | UPPER CROTCH LENGTH (INSEAM) | 27.6 | 29.1 | 29.9 | 30.7 | 31.5 | 32.3 |
| 21 | THIGH, LARGEST CIRCUMFERENCE | 22.0 | 22.8 | 23.6 | 24.4 | 25.2 | 26.0 |
| 22 | THIGH, INTERMEDIATE CIRCUMFERENCE | | | | | | |
| 23 | ABOVE KNEE CIRCUMFERENCE | | | | | | |
| 24 | BELOW KNEE CIRCUMFERENCE | 13.8 | 14.2 | 14.6 | 15.0 | 15.4 | 15.7 |
| 25 | CALF CIRCUMFERENCE | 14.6 | 15.0 | 15.4 | 15.7 | 16.1 | 16.5 |
| 26 | ANKLE | | | | | | |
| 27 | LOWER LEG LENGTH | 15.4 | 16.1 | 16.5 | 16.9 | 17.3 | 17.7 |
| 28 | HEAD CIRCUMFERENCE | | | | | | |
| 29 | FOOT LENGTH BOOT SIZE | 7 ~ 8 | 8 ~ 9 | 9 ~ 10 | 9~10 / 11~12 | 11~12 / 12~13 | 12~13 |
| 30 | UNDER BUST | | | | | | |
| 31 | BREAST DROP | | | | | | |
| 32 | NIPPLE DISTANCE | NB: All Imperial measurements except height, weight and boot size are exact conversion from metric. | | | | | |

Imperial: P. 1-4

Metric: P. 3-6

Ready made size (04.26.2010)

Updated: May 14, 2013

Added Imperial & Custom Suit Notes

Female Size: P.2

Measurement Description: P. 3

Measurement Drawing: P.4

| IMPERIAL (USA) | | Female | | |
|----------------|-----------------------------------|--------------|--------------|--------------|
| NO | SIZE | X S | S | M |
| 1 | HEIGHT | 5'3 - 5'6 | 5'4 - 5'7 | 5'5 - 5'8 |
| 2 | WEIGHT (KGS) | 100 - 125 | 110 - 135 | 130 - 160 |
| 3 | GENERAL HEIGHT | | | |
| 4 | NECK MEASUREMENT | 12.6 | 13.4 | 14.2 |
| 5 | BACK HEIGHT (TO ANUS) | 24.4 | 25.2 | 26.0 |
| 6 | TOP BUST/UPPER CHEST | 34.4 | 34.6 | 36.8 |
| 7 | BUST MEASUREMENT | 0.0 | 0.0 | 0.0 |
| 8 | ABDOMINAL MEASUREMENT | 30.5 | 31.7 | 33.9 |
| 9 | LOWER ABDOMINAL MEASUREMENT | 0.0 | 0.0 | 0.0 |
| 10 | BUTTOCK CIRCUMFERENCE | 36.2 | 37.0 | 38.8 |
| 11 | SHOULDER WIDTH | 16.5 | 17.3 | 18.1 |
| 12 | SLEEVE LENGTH | 28.3 | 29.1 | 29.9 |
| 13 | ARM LENGTH | 20.1 | 20.5 | 20.9 |
| 14 | SHOULDER JOINT | 16.1 | 16.5 | 16.9 |
| 15 | UPPER ARM CIRCUMFERENCE | | | |
| 16 | BICEPS CIRCUMFERENCE | | | |
| 17 | ELBOW CIRCUMFERENCE | | | |
| 18 | FOREARM | 10.2 | 10.6 | 11.0 |
| 19 | WRIST | 6.3 | 6.7 | 7.1 |
| 20 | UPPER CROTCH LENGTH (INSEAM) | 26.2 | 26.6 | 28.1 |
| 21 | THIGH, LARGEST CIRCUMFERENCE | 21.3 | 22.0 | 22.8 |
| 22 | THIGH, INTERMEDIATE CIRCUMFERENCE | | | |
| 23 | ABOVE KNEE CIRCUMFERENCE | | | |
| 24 | BELOW KNEE CIRCUMFERENCE | 13.4 | 13.8 | 14.2 |
| 25 | CALF CIRCUMFERENCE | 14.2 | 14.6 | 15.0 |
| 26 | ANKLE | | | |
| 27 | LOWER LEG LENGTH | 14.6 | 15.0 | 15.4 |
| 28 | HEAD CIRCUMFERENCE | | | |
| 29 | FOOT LENGTH BOOT SIZE | 6 ~ 7 | 7 ~ 8 | 8 ~ 9 |
| 30 | UNDER BUST | | | |
| 31 | BREAST DROP | | | |
| 32 | NIPPLE DISTANCE | | | |

| MEASUREMENT GUIDELINE (MODIFIED FOR STOCK DETAIL) | | |
|---|-----------------------------------|---|
| NO | SIZE (CUSTOM FIT) | NB: All Imperial measurements except height, weight and boot size are exact conversion from metric. |
| 1 | HEIGHT | Matches Apollo USA catalog chart, adjustment decreased/increased range based on results from onsite fit event. |
| 2 | WEIGHT (KGS) | Matches Apollo USA catalog chart, adjustment decreased/increased range based on results from onsite fit event. |
| 3 | GENERAL HEIGHT | n/a for stock sizes |
| 4 | NECK MEASUREMENT | Slenderest point, below Adam's apple |
| 5 | BACK HEIGHT (TO ANUS) | From Point "A" to anus Point A is raised bone at back of neck |
| 6 | TOP BUST/UPPER CHEST | Taken thru armpit with arms lowered in a natural way |
| 7 | BUST MEASUREMENT | n/a for stock sizes |
| 8 | ABDOMINAL MEASUREMENT | A little above navel at thinnest point |
| 9 | LOWER ABDOMINAL MEASUREMENT | The most prominent part of abdomen |
| 10 | BUTTOCK CIRCUMFERENCE | The most prominent part of the buttocks |
| 11 | SHOULDER WIDTH | From extreme point of shoulder, taken through Point "A" to other shoulder, going with roundness of shoulders |
| 12 | SLEEVE LENGTH | Arm raised in 45° angle, take measurement from Point "A" to wrist, going through extreme point of shoulder to wrist |
| 13 | ARM LENGTH | Arm raised in 45° angle, take measurement from extreme point of shoulder to wrist |
| 14 | SHOULDER JOINT | Arm raised in 45° angle, take measurement from the armpit going around the shoulder |
| 15 | UPPER ARM CIRCUMFERENCE | n/a for stock sizes |
| 16 | BICEPS CIRCUMFERENCE | n/a for stock sizes |
| 17 | ELBOW CIRCUMFERENCE | n/a for stock sizes |
| 18 | FOREARM | Immediately below the elbow at largest point |
| 19 | WRIST | The slenderest part of wrist |
| 20 | UPPER CROTCH LENGTH | Crotch to inner ankle NB: Actual measurement indicated plus up to 2" can generally be accommodated with comfort. |
| 21 | THIGH, LARGEST CIRCUMFERENCE | Largest part of thigh |
| 22 | THIGH, INTERMEDIATE CIRCUMFERENCE | n/a for stock sizes |
| 23 | ABOVE KNEE CIRCUMFERENCE | n/a for stock sizes |
| 24 | BELOW KNEE CIRCUMFERENCE | Immediately below kneecap, where it becomes slender |
| 25 | CALF CIRCUMFERENCE | The largest part of calf |
| 26 | ANKLE | n/a for stock sizes |
| 27 | LOWER LEG LENGTH | From protruding bone inner side of knee to center of ankle bone |
| 28 | HEAD CIRCUMFERENCE | n/a for stock sizes |
| 29 | FOOT LENGTH | not actual foot length, stock boot size noted |
| 30 | UNDER BUST | n/a for stock sizes |
| 31 | BREAST DROP | n/a for stock sizes |
| 32 | NIPPLE DISTANCE | n/a for stock sizes |
| 33 | LATERAL MALLEOLUS LENGTH | n/a for stock sizes |

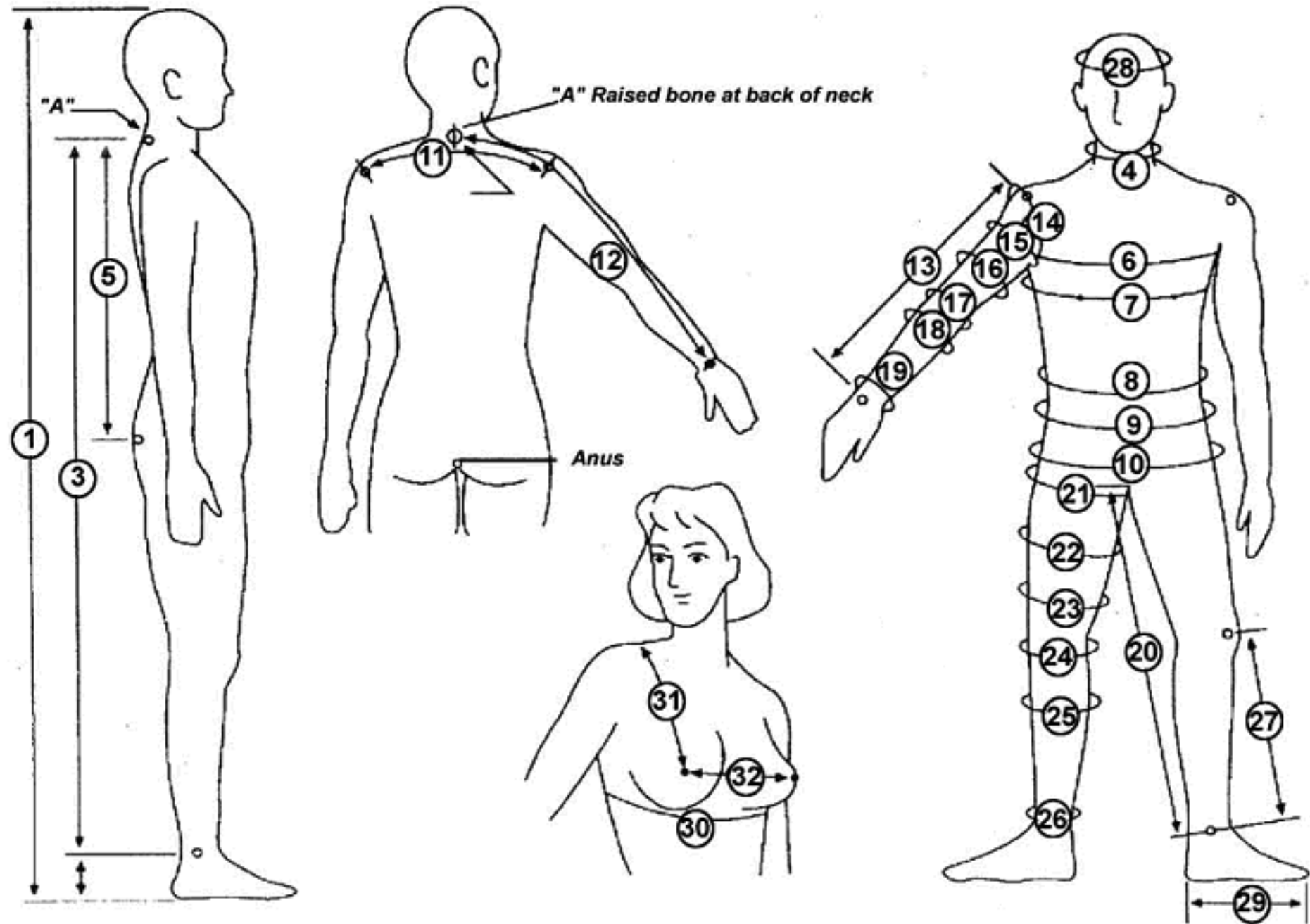


Diagram numbers refer to measurement chart

Imperial: P. 1-4

Metric: P. 3-6

Ready made size (04.26.2010)

Updated: May 14, 2013

Added Imperial & Custom Suit Notes

Female Size: P.2

Measurement Description: P. 3

Measurement Drawing: P.4

| METRIC (INTERNATIONAL) | | Male | | | | | |
|------------------------|-----------------------------------|-----------|-----------|-----------|----------------|----------------|-----------|
| NO | SIZE | S | M | ML | L | XL | XXL |
| 1 | HEIGHT | 166~170 | 171~175 | 176~180 | 181~185 | 186~190 | 191~195 |
| 2 | WEIGHT (KGS) | 66~70 | 71~75 | 76~80 | 81~85 | 86~90 | 91~95 |
| 3 | GENERAL HEIGHT | | | | | | |
| 4 | NECK MEASUREMENT | 37 | 38 | 39 | 40 | 41 | 42 |
| 5 | BACK HEIGHT (TO ANUS) | 64 | 66 | 68 | 71 | 74 | 77 |
| 6 | TOP BUST/UPPER CHEST | 90.5 | 93.5 | 96.5 | 100.5 | 103.5 | 108.5 |
| 7 | BUST MEASUREMENT | | | | | | |
| 8 | ABDOMINAL MEASUREMENT | 80.5 | 83.5 | 86.5 | 89.5 | 92.5 | 95.5 |
| 9 | LOWER ABDOMINAL MEASUREMENT | | | | | | |
| 10 | BUTTOCK CIRCUMFERENCE | 94 | 96 | 98 | 100 | 104 | 108 |
| 11 | SHOULDER WIDTH | 44 | 46 | 48 | 48 | 50 | 50 |
| 12 | SLEEVE LENGTH | 74 | 76 | 78 | 80 | 82 | 84 |
| 13 | ARM LENGTH | 52 | 53 | 54 | 56 | 57 | 59 |
| 14 | SHOULDER JOINT | 42 | 43 | 45 | 46 | 48 | 50 |
| 15 | UPPER ARM CIRCUMFERENCE | | | | | | |
| 16 | BICEPS CIRCUMFERENCE | | | | | | |
| 17 | ELBOW CIRCUMFERENCE | | | | | | |
| 18 | FOREARM | 27 | 28 | 29 | 31 | 32 | 33 |
| 19 | WRIST | 17 | 18 | 18 | 19 | 20 | 21 |
| 20 | UPPER CROTCH LENGTH | 70 | 74 | 76 | 78 | 80 | 82 |
| 21 | THIGH, LARGEST CIRCUMFERENCE | 56 | 58 | 60 | 62 | 64 | 66 |
| 22 | THIGH, INTERMEDIATE CIRCUMFERENCE | | | | | | |
| 23 | ABOVE KNEE CIRCUMFERENCE | | | | | | |
| 24 | BELOW KNEE CIRCUMFERENCE | 35 | 36 | 37 | 38 | 39 | 40 |
| 25 | CALF CIRCUMFERENCE | 37 | 38 | 39 | 40 | 41 | 42 |
| 26 | ANKLE | | | | | | |
| 27 | LOWER LEG LENGTH | 39 | 41 | 42 | 43 | 44 | 45 |
| 28 | HEAD CIRCUMFERENCE | | | | | | |
| 29 | FOOT LENGTH BOOT SIZE | 26 | 27 | 28 | 28 / 30 | 30 / 31 | 31 |
| 30 | UNDER BUST | | | | | | |
| 31 | BREAST DROP | | | | | | |
| 32 | NIPPLE DISTANCE | | | | | | |

Imperial: P. 1-4

Metric: P. 3-6

Ready made size (04.26.2010)

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Female Size: P.2

Measurement Description: P. 3

Measurement Drawing: P.4

| METRIC (INTERNATIONAL) | | Female | | |
|------------------------|-----------------------------------|-----------|-----------|-----------|
| NO | SIZE | X S | S | M |
| 1 | HEIGHT | 158~163 | 160~165 | 166~170 |
| 2 | WEIGHT (KGS) | 55~60 | 60~65 | 66~70 |
| 3 | GENERAL HEIGHT | | | |
| 4 | NECK MEASUREMENT | 32 | 34 | 36 |
| 5 | BACK HEIGHT (TO ANUS) | 62 | 64 | 66 |
| 6 | TOP BUST/UPPER CHEST | 87.5 | 88 | 93.5 |
| 7 | BUST MEASUREMENT | | | |
| 8 | ABDOMINAL MEASUREMENT | 77.5 | 80.5 | 86 |
| 9 | LOWER ABDOMINAL MEASUREMENT | | | |
| 10 | BUTTOCK CIRCUMFERENCE | 92 | 94 | 98.5 |
| 11 | SHOULDER WIDTH | 42 | 44 | 46 |
| 12 | SLEEVE LENGTH | 72 | 74 | 76 |
| 13 | ARM LENGTH | 51 | 52 | 53 |
| 14 | SHOULDER JOINT | 41 | 42 | 43 |
| 15 | UPPER ARM CIRCUMFERENCE | | | |
| 16 | BICEPS CIRCUMFERENCE | | | |
| 17 | ELBOW CIRCUMFERENCE | | | |
| 18 | FOREARM | 26 | 27 | 28 |
| 19 | WRIST | 16 | 17 | 18 |
| 20 | UPPER CROTCH LENGTH | 66.5 | 67.5 | 71.5 |
| 21 | THIGH, LARGEST CIRCUMFERENCE | 54 | 56 | 58 |
| 22 | THIGH, INTERMEDIATE CIRCUMFERENCE | | | |
| 23 | ABOVE KNEE CIRCUMFERENCE | | | |
| 24 | BELOW KNEE CIRCUMFERENCE | 34 | 35 | 36 |
| 25 | CALF CIRCUMFERENCE | 36 | 37 | 38 |
| 26 | ANKLE | | | |
| 27 | LOWER LEG LENGTH | 37 | 38 | 39 |
| 28 | HEAD CIRCUMFERENCE | | | |
| 29 | FOOT LENGTH BOOT SIZE | 24 | 25 | 26 |
| 30 | UNDER BUST | | | |
| 31 | BREAST DROP | | | |
| 32 | NIPPLE DISTANCE | | | |