



Reversibots - PRIME



Materials

Yarn: Worsted weight yarn in blue, red, light grey, medium grey

Optional yarn: Lighter weight grey to outline windows, black for tires

Yarn used in sample: Red Heart Blue, Cherry, Light Grey, Grey Heather

Red Heart Shimmer Royal

Caron Simply Soft Grey Heather

Crochet Hooks: H, I

Miscellaneous: yarn needle, sewing needle and matching thread, 2-4 size 10 SEW ON snaps

For attaching the smoke stacks, choose either: 6 - $\frac{3}{4}$ " buttons (size is approximate, see "smoke stacks" in pattern); Or 4 - size 7 SEW ON snaps

Gauge: 4" = 13hdc and 9 rows

Sizes: Child, Teen, Adult

Notes: Please look over this entire pattern BEFORE you begin. There are several options. For reversible hats, each hat should be a little roomy, not tightly stretched.

About this pattern: When I decided I wanted to make a hat based on the popular movie about robots that change into vehicles, I KNEW the hat would have to change too. For a reversible beanie, you will make two hats and then join them. Each hat can be made separately also.

For the semi, the "ear flaps" hang down. For the robot, remove the smoke stacks, turn the hat inside out and snap the ear flaps up against the hat.

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## THE BASE HATS

### Directions for blue side (robot):

Start all sizes the same. Do not join at the end of each round unless stated.

For "child/preteen" size, stop after round #8 and skip to "body" section.

For "teen/adult" size, stop after round #9 and skip to "body" section.

For "large adult" size, stop after round #10 and skip to "body" section.

With I hook and blue yarn, ch 6, join and pull closed (or magic loop of 6 sts),

1. 2sc in each stitch around (12sts).
2. \*sc 1, 2 sc in next sc\*, repeat to end of round. (18sts)
3. \*sc 2, 2 sc in next sc\*, repeat to end of round. (24sts)
4. \*sc 3, 2 sc in next sc\*, repeat to end of round. (30sts)
5. \*sc 4, 2 sc in next sc\*, repeat to end of round. (36sts)
6. \*sc 5, 2 sc in next sc\*, repeat to end of round. (42sts)
7. \*sc 6, 2 sc in next sc\*, repeat to end of round. (48sts)
8. \*sc 7, 2 sc in next sc\*, repeat to end of round. (54sts) Child/preteen
9. \*sc 8, 2 sc in next sc\*, repeat to end of round. (60sts) Teen/Adult
10. \*sc 9, 2 sc in next sc\*, repeat to end of round. (66sts) Large adult

**BODY:** Remove marker and hdc each stitch until hat measures desired length (see chart at end of pattern).

**EARFLAPS:** With right side of hat facing towards you and upside down, attach blue yarn with a sl st to a st on the last round. Sc 12 (14 for teen, 16 for adult). Ch 1, turn.

1-10. Sc in same stitch and across. Ch 1, turn.

11. Sk first st, sc across, sc last 2tog. Ch 1, turn.

12-14. Sc in same stitch and across. Ch 1, turn.

\*15. Sk first st, sc across, sc last 2tog. Ch 1, turn.

16-18. Sc in same stitch and across. Ch 1, turn.\*

Repeat from \* to \* until 4 sts remain.

Sc2tog, sc2tog, ch 1, turn.

Sc2tog. Finish off, weaving in all ends.

Fold hat in half to find placement for 2nd earflap. It should start exactly across from the first flap. Starting on the RS of the hat, attach yarn and follow directions for earflap.

**For reversible hat, skip to directions for next hat.**

For robot hat ONLY, attach blue yarn to center back of hat. Sc in each stitch around, with 2sc in tip of each flap. Continue around and sl st in last stitch. Finish off and weave in ends. Continue to "ROBOT features" section.

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Directions for red side (semi):

Start all sizes the same. Do not join at the end of each round unless stated.

For "child/preteen" size, stop after round #8 and skip to "body" section.

For "teen/adult" size, stop after round #9 and skip to "body" section.

For "large adult" size, stop after round #10 and skip to "body" section.

With I hook and red yarn, ch 6, join and pull closed (or magic loop of 6 sts),

1. 2sc in each stitch around (12sts).
2. *sc 1, 2 sc in next sc*, repeat to end of round. (18sts)
3. *sc 2, 2 sc in next sc*, repeat to end of round. (24sts)
4. *sc 3, 2 sc in next sc*, repeat to end of round. (30sts)
5. *sc 4, 2 sc in next sc*, repeat to end of round. (36sts)
6. *sc 5, 2 sc in next sc*, repeat to end of round. (42sts)
7. *sc 6, 2 sc in next sc*, repeat to end of round. (48sts)
8. *sc 7, 2 sc in next sc*, repeat to end of round. (54sts) Child/preteen
9. *sc 8, 2 sc in next sc*, repeat to end of round. (60sts) Teen/Adult
10. *sc 9, 2 sc in next sc*, repeat to end of round. (66sts) Large adult

BODY: Remove marker and hdc each stitch until hat measures 1.5-2" shorter than desired length (see chart below), so the grey band can be added along the bottom. Change to light grey yarn. Ch 1, sc in each stitch until hat is desired length. Finish off and weave in ends.

EARFLAPS: With blue yarn, follow directions above for earflaps.

For reversible hat, skip to "joining" below.

For semi hat ONLY, attach light grey yarn to center back of hat. Sc in each stitch around, with 2sc in tip of each flap. Continue around and sl st in last stitch. Finish off and weave in ends.

JOINING: FIRST, compare the two hats and make sure they are similar in size.

For reversible hat, turn the blue hat inside out and slide inside the red hat. Line up the earflaps. With right side of hat facing towards you and upside down, attach blue yarn to a stitch in the center back of the last round. Working through BOTH hats at a time, sc in each stitch around, with 2sc in the tip of each ear flap. Continue around, then sl st in the first st of the round to join. Finish off and weave in ends.



Note: in the photo, one ear flap is grey and one is blue. This is only to show there are two flaps. BOTH flaps should be blue.

If you pull the hats apart, it should look like this.



Fold the ear flaps in half, lengthwise, from the tip. Using a yarn needle and blue yarn, sew the two edges together (starting at the tip and working towards the hat 2-3") to keep the tip in a point.

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### **SEMI FEATURES**

**Smoke stacks (make 2):** With light grey yarn and H hook, ch 21. Sc in first ch from hook and across.

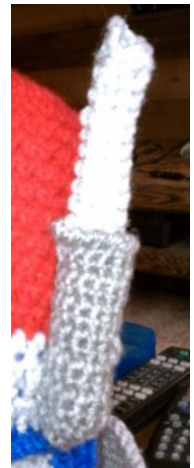
\*Ch 1, turn, sc in each stitch across.\* Repeat from \* to \* for a total of 6 rows.

Ch 1, sc evenly around all 4 edges of this piece, with 2sc in each corner stitch. Finish off, leaving a long tail.

Roll rectangle piece, from one long edge to the other. Using a yarn needle and yarn tail, whipstitch along the long edge to hold in place. Leave ends open. Set aside.

**Bottom part of smoke stacks (make 2):** With medium grey yarn and H hook, ch 12. Sc in first ch from hook and across.

\*Ch 1, turn, sc in each stitch across\*. Repeat from \* to \* for a total of 14 rows.



Ch 1, do NOT turn. Reverse sc across the last row (see below for information on this stitch). Finish off, leaving a long tail.

Wrap this piece around the taller smoke stack. Line up edge with one end of the taller stack. Using a yarn needle and yarn tail, whipstitch along the long edge to hold in place.

Attaching stacks to the hat: First, place the hat on a mannequin or rounded item to get a better look. Mark placement with a pin or disappearing fabric marker if desired. The bottom of the stack should line up with the bottom of the grey band.

There are a few ways to attach the stacks. If the hat is NOT reversible, simply sew the stacks in place, referring to photos for placement.

For removable stacks, sew buttons or snaps on one side of the stack. Choose which one you will use and follow instructions below.

Buttons: If using buttons, choose ones that will tightly slip through the spaces between the stitches on the hat.

One button should be sewn near the bottom of the medium grey smoke stack piece and the other, near the top of the medium grey piece.

Buttons will slip through stitches, attaching the stacks anywhere on the hat.

Snaps: If using snaps, you will need snaps similar to those in the photo (size 7 for the smoke stacks).

I prefer snaps because they hold better and are easier to use.

To sew the snaps to the hat, pull the blue hat out, place the snap part without the post sticking up on the hat and sew in place. Make sure to use the snap part with the post only on the smoke stack so it won't poke into the head then the hat is reversed.



## **WINDOWS (Make 2):**

Note: the sample windows are made using red heart shimmer. This yarn is a lighter worsted weight, decreasing the bulk of the hat. It has a glitter to it. Regular worsted weight yarn may be also be used.

With I hook and blue yarn, ch 12. Hdc in third ch from hook and across. Ch 2, turn.

\*Hdc in each stitch across, ch 2, turn\*. Repeat for a total of 4 rows. Finish off, leaving a long tail for attaching to the hat.

Place windows on hat and check placement. Use rounds of the hat to help make sure windows are straight and even. Pin in place if necessary. Using a yarn needle and yarn tail, stitch around each window.

Optional: Using a yarn needle and long strand of grey yarn (caron simply soft was used for a shiny appearance), back stitch around the windows. See end of pattern for information about this stitch.

**Grill (make 5 "strands"):** With H hook and medium grey yarn, ch 7. Sc in first ch from hook and across. Finish off, leaving a tail for attaching to the hat.

Find the center front of hat. Each strand will have two yarn tails, one on each end. Pull the shorter end through a stitch in between the last red round and first grey round of the hat. Secure this tail to the inside of the hat.

Make sure the strand is straight on the front of the hat. Use the longer yarn tail and yarn needle to sew the strand in place.

Repeat for the other strands. Refer to photo for placement.



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FEATURES FOR BOTH (robot and semi)

Speakers (make 2): With I hook and light grey yarn, ch 6, join and pull closed (or magic loop of 6 sts),

1. 2sc in each stitch around (12sts). Change to 2 strands of blue.
2. In BLO (back loops only), *sc 1, 2 sc in next sc*, repeat to end of round. (18sts)
3. *sc 2, 2 sc in next sc*, repeat to end of round. (24sts) Change to medium grey.
4. *sc 3, 2 sc in next sc*, repeat to end of round. (30sts). Finish off, leaving a long tail for attaching to ear flap.

Shape the piece so the center is raised. I used yarn tails to slightly stuff the speaker. Using the yarn needle and yarn tail, sew the speaker to the widest part of the ear flap. See photo for placement.



Optional: Turn the speakers into tires if desired. Start the same as above, but switch to 2 strands of black (held together) instead of blue. Also, do not outline with grey.



Spike: With light grey and I hook, ch 12. Sl st in first ch from hook and in the next, sc 3, hdc 4, dc, 2. Finish off, leaving a long tail for attaching to the hat.

Lay the fattest end next to the speaker. Using the yarn needle and tail, sew the spike in place.

ROBOT FEATURES

Grey stripe on center front: With lt grey and I hook, ch 6. Sc in first ch from hook and across. Ch 1, turn. 1. 2sc in first st, sc across, 2sc in last st, ch 1, turn.

2. Repeat previous row.

3-14. Sc in first st and across, ch 1, turn.

Finish off, leaving a long tail for attaching to the hat.

Blue shape: With blue shimmer and H hook, Ch 5. Sc in first ch from hook and across. Ch 1, turn.

1. 2sc in first st, sc across, 2sc in last st, ch 1, turn.

2. Repeat previous row.

3-5. Sc in first st and across, ch 1, turn.

Finish off, leaving a long tail for attaching to the hat.

Place the blue shape on top of the grey stripe. Using a yarn needle and blue yarn tail, sew the blue shape in place. Weave in ends.

Place the grey stripe on the hat, with the flat edge against the bottom edge of that hat. Make sure the stripe is in the center front of the hat. Using a yarn needle and grey yarn tail, sew the stripe to the hat.

Place the hat on a mannequin or round item. Smooth out the top of the hat. To form the ridges at the top, pinch approximately 1-1.5" of the blue hat only. Create two ridges along the top, on either side of center and even with the width of the grey stripe. Using a yarn needle and matching yarn, take a few stitches close to the hat and through both layers pinched together. Play with this some until it looks how you want it to and also, so it will stay in place. You don't want to pull up too much, causing the hat to not fit properly.

Tall spikes: The ear flaps will fold up and become the tall spikes on either side of the head. Snaps will keep them in place. These will hold better than buttons and are easier to put in place. Fold the flap up and check placement. The snaps should be sewn as high on the flap as possible BUT still allow the spikes to stand straight and not bend over the hat. Also, make sure the bottom of the hat does not pull up. Double check placement on the flap and hat, making sure the spikes will be straight and flat. Each snap has 2 parts. Sew one half to the wrong side (without the features) of the ear flap and the other half to the hat. Note: It is important to sew the half of the snap with the post that sticks out onto the FLAP. If you sew that half of the snap to the hat, it will poke into the head when the hat is reversed.





FACE MASK

This is optional and could be made a few different ways.

As written, it has loops to go over the ears. After trying many different styles, this was the most popular with my test subjects. It is easy to put on and comfortable to wear.

If making a single, nonreversible hat, the mask could be sewn directly to the hat, leaving off the ear loops.

There are 3 sizes of masks.

CHILD

1. With light grey yarn and I hook, ch 33, sc in first ch from hook, sc to end of row, ch 1, turn. (32sts)
 2. Dc2tog, dc to end of row, dc2tog, ch 2, turn. (30sts)
 3. Sk first st, sc in next st, sc in skipped stitch (cross over previous st and work in skipped st), *sk next st, sc in next, sc in skipped st*, repeat to end of row.
 4. In BLO, dc2tog, dc to end of row, dc2tog, ch 1, turn. (28sts). From this point on, work in both loops as usual.
 5. Sc in each stitch across, ch 1, turn.
 6. Dc2tog, dc to end of row, dc2tog, ch 1, turn. (26sts)
 7. Hdc in each stitch across, ch 1, turn.
 8. Mouth and nose opening: Sc 3, hdc 2, dc 2, ch 9, sk 9, dc 2, hdc 2, sc to end of row, ch 1, Do NOT turn. (26sts)
- Note: for a mask without the opening, work row #8 as follows: sc 5, hdc 16, sc to end of row, ch 1, turn.
9. Reverse sc across previous row in FLO. This is important. By working in the front loops only, the next row will be worked in the remaining stitches.
 10. Ch 1, sc2tog, sc 3, hdc 6, dc 4, hdc 6, sc 3, sc last 2tog, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 7 (to create the ear loops), sl st in the ch 1 space.
 11. Working across the top of the mask, sc in each stitch across, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 7 (to create the ear loops), sl st in the ch 1 space.
 12. Sl st 12, ch 1, sl st to end. Finish off and weave in all ends.

Fold mask in half. Attach light grey yarn and reverse sc along the fold, from the bottom of mask to the mouth opening. Finish off and weave in ends.

Blue vents on mask (make 2): With blue yarn and I hook, ch 10, hdc in third ch from hook and across. Ch 2, turn.

Fphdc, Bphdc, repeat across. Ch 2, turn.

Bphdc, Fphdc, repeat across. Ch 2, turn.

Repeat previous 2 rows for a total of 5 rows.

Hdc in first stitch and across, with 2hdc in last stitch. Finish off, leaving a long tail for attaching to the hat. Give the shape a few tugs and place on the mask, along the short edge. Using the yarn needle and yarn tail, sew the short edge of the vent to the short edge of the mask. Sew halfway up one of the vent sides to help keep it in place.

Repeat for other side.

Blue shape on chin: With shimmer blue yarn, ch 5. Sc in first ch from hook and across. Ch 1, turn. *Sc in each stitch across*, ch 1, turn*, repeat from * to * for a total of 3 rows. Finish off, leaving a long tail for attaching to the mask.

TEEN

1. With light grey yarn and I hook, ch 35, sc in first ch from hook, sc to end of row, ch 1, turn. (34sts)

2. Dc2tog, dc to end of row, dc2tog, ch 2, turn. (32sts)

3. Sk first st, sc in next st, sc in skipped stitch (cross over previous st and work in skipped st), *sk next st, sc in next, sc in skipped st*, repeat to end of row.

4. In BLO, dc2tog, dc to end of row, dc2tog, ch 1, turn. (30sts). From this point on, work in both loops as usual.

5. Sc in each stitch across, ch 1, turn.

6. Dc2tog, dc to end of row, dc2tog, ch 1, turn. (28sts)

7-8. Hdc in each stitch across, ch 1, turn.

9. Mouth and nose opening: Sc 4, hdc 2, dc 2, ch 9, sk 9, dc 2, hdc 2, sc to end of row, ch 1, Do NOT turn. (28sts)

Note: for a mask without the opening, work row #8 as follows: sc 5, hdc 18, sc to end of row, ch 1, turn.

10. Reverse sc across previous row in FLO. This is important. By working in the front loops only, the next row will be worked in the remaining stitches.

11. Ch 1, sc2tog, sc 3, hdc 7, dc 4, hdc 7, sc 3, sc last 2tog, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 8 (to create the ear loops), sl st in the ch 1 space.

12. Working across the top of the mask, sc in each stitch across, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 8 (to create the ear loops), sl st in the ch 1 space.

13. Sl st 13, ch 1, sl st to end. Finish off and weave in all ends.

Fold mask in half. Attach light grey yarn and reverse sc along the fold, from the bottom of mask to the mouth opening. Finish off and weave in ends.

Blue vents on mask (make 2): With blue yarn and I hook, ch 13, hdc in third ch from hook and across. Ch 2, turn.

Fphdc, Bphdc, repeat across. Ch 2, turn.

Bphdc, Fphdc, repeat across. Ch 2, turn.

Repeat previous 2 rows for a total of 6 rows

Hdc in first stitch and across, with 2hdc in last stitch. Finish off, leaving a long tail for attaching to the hat. Give the shape a few tugs and place on the mask, along the short edge. Using the yarn needle and yarn tail, sew the short edge of the vent to the short edge of the mask. Sew halfway up one of the vent sides to help keep it in place.

Repeat for other side.

Blue shape on chin: With shimmer blue yarn, ch 6. Sc in first ch from hook and across. Ch 1, turn. *Sc in each stitch across*, ch 1, turn*, repeat from * to * for a total of 4 rows. Finish off, leaving a long tail for attaching to the mask.

ADULT

1. With light grey yarn and I hook, ch 37, sc in first ch from hook, sc to end of row, ch 1, turn. (36sts)

2. Dc2tog, dc to end of row, dc2tog, ch 2, turn. (35sts)

3. Sk first st, sc in next st, sc in skipped stitch (cross over previous st and work in skipped st), *sk next st, sc in next, sc in skipped st*, repeat to end of row.

4. In BLO, dc2tog, dc to end of row, dc2tog, ch 1, turn. (33sts). From this point on, work in both loops as usual.

5. Sc in each stitch across, ch 1, turn.

6. Dc2tog, dc to end of row, dc2tog, ch 1, turn. (31sts)

7-8. Hdc in each stitch across, ch 1, turn.

9. Mouth and nose opening: Sc 4, hdc 2, dc 2, ch 10, sk 10, dc 2, hdc 2, sc to end of row, ch 1, Do NOT turn. (31sts)

Note: for a mask without the opening, work row #8 as follows: sc 5, hdc 20, sc to end of row, ch 1, turn.

10. Reverse sc across previous row in FLO. This is important. By working in the front loops only, the next row will be worked in the remaining stitches.

11. Ch 1, sc2tog, sc 4, hdc 7, dc 4, hdc 7, sc 4, sc last 2tog, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 9 (to create the ear loops), sl st in the ch 1 space.

12. Working across the top of the mask, sc in each stitch across, ch 1, rotate piece and evenly sc across the short end of the mask. Ch 9 (to create the ear loops), sl st in the ch 1 space.

13. Sl st 14, ch 1, sl st to end. Finish off and weave in all ends.

Fold mask in half. Attach light grey yarn and reverse sc along the fold, from the bottom of mask to the mouth opening. Finish off and weave in ends.

Blue vents on mask (make 2): With blue yarn and I hook, ch 14, hdc in third ch from hook and across. Ch 2, turn.

Fphdc, Bphdc, repeat across. Ch 2, turn.

Bphdc, Fphdc, repeat across. Ch 2, turn.

Repeat previous 2 rows for a total of 8 rows.

Hdc in first stitch and across, with 2hdc in last stitch. Finish off, leaving a long tail for attaching to the hat. Give the shape a few tugs and place on the mask, along the short edge. Using the yarn needle and yarn tail, sew the short edge of the vent to the short edge of the mask. Sew halfway up one of the vent sides to help keep it in place.

Repeat for other side.

Blue shape on chin: With shimmer blue yarn, ch 6. Sc in first ch from hook and across. Ch 1, turn. *Sc in each stitch across*, ch 1, turn*, repeat from * to * for a total of 4 rows. Finish off, leaving a long tail for attaching to the mask.

Storing extra items

When reversing from semi to robot: remove the smoke stacks, turn hat inside out, fold ear flaps up and snap in place.

Button or snap smoke stacks horizontally, like train tracks, along the bottom back of hat.

Note: If snaps were used, you will need to sew snaps on the back of the blue side of the hat so the smoke stacks can be snapped on.

When reversing from robot to semi: unsnap the ear flaps, remove the smoke stacks, turn hat inside out and snap smoke stacks in place.

As for the mask...when not in use the mask could be buttoned across the back of the hat. If desired, sew buttons to the top corners of the mask on the wrong side. Use buttons that will slip through the stitches on the hat.

Remember, the real reversibots have miscellaneous parts all over them.

Variations

The main part of this pattern, the reversible beanie, could be used for many different things. A lady bug on one side, a bumble bee on the other. A football on one side, a basketball on the other.

Snappy Tips

Abbreviations: chain (ch), single crochet (sc), half double crochet (hdc), double crochet (dc), slip stitch (sl st), decrease - single crochet two together (sc2tog), increase - work in the same stitch (2sc), front post half double crochet (fphdc), back post half double crochet (bphdc), front loops only (FLO), back loops only (BLO).

When working in the round, I start with a magic loop of x amount of sts. Others prefer to start with a ch, join with a slip stitch to create a ring, and work x amount of stitches into the ring.

Reverse sc: This is similar to regular single crochet, but working in the opposite direction. At first, this will seem awkward, but take your time. No need for being speedy here. To start the row, ch 1, working to the RIGHT, sc in the next stitch and in each stitch across.

I have created a few videos to help explain how I do some things. There are many wonderful instructional videos available for free on youtube and throughout the web.
<http://www.youtube.com/user/heidishowto?feature=mhee>



If you have any questions, comments or suggestions please email me at heidi@snappy-tots.com. This pattern has been tested. It is very important to me that information is easy to understand and accurate. I would appreciate knowing any errors found so they could be fixed. Thank you in advance. This pattern is copyrighted to snappytots and may not be copied for resale in part or whole. Items created from this pattern MAY be sold. Please include a link to snappy-tots.com if selling online

HEAD AND HAT SIZE CHART

for brand new babies to adult men

I prefer to make hats approximately 1" smaller than the head circumference so they will stretch and not be too big.

Note: All measurements are approximate and based on "average" head sizes according to several online sources. Hat "height" is the measurement from top of crown to bottom edge.

Brand new babies

Head Circ: 12" - 13"	Hat Circ: 11 - 12"	Hat Height: 5" - 5.5"
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Newborn

Head Circ: 13" - 14"	Hat Circ: 11.5" - 13"	Hat Height: 5.5" to 6"
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Baby - 3 to 6 months

Head Circ: 14" - 17"	Hat Circ: 13" - 16"	Hat Height: 6.5 - 7"
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Baby - 6 to 12 months

Head Circ: 16" - 19"	Hat Circ: 15" - 18"	Hat Height: 7.5"
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Toddler (1 - 3 years)

Head Circ: 18" - 20"	Hat Circ: 17" - 19"	Hat Height: 8"
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Child (3 - 10 years)

Head Circ: 19" - 20.5"	Hat Circ: 18" - 19.5"	Hat Height: 8.5"
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Preteen/Teen

Head Circ: 20.5" - 22"	Hat Circ: 19.5" - 21"	Hat Height: 9 -10"
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Adult Woman

Head Circ: 21.5" - 22.5"	Hat Circ: 20.5" - 21.5"	Hat Height: 11"
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Adult Man

Head Circ: 23" - 24"	Hat Circ: 22" - 23"	Hat Height: 11" - 11.5"
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