

76315 Iron Man's Laboratory: Hall of Armor

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The buildable LEGO I Marvel toy features 3 armor pods and 3 Iron Man armor minifigures: the Iron Patriot, MK43 and MK6. The lineup is completed by Pepper Potts and the villain Aldrich Killian minifigures, a buildable Dum-E robot and a large, Igor Iron Man MK3 mech with movable arms and legs and a cockpit with room for a minifigure. Other features include a maintenance platform with 2 robotic-style arms and a large scanning device. There's also a fire extinguisher and 2 fire elements and 2 stud shooters for when the battle action begins.

Iron Man's lab with LEGO® I Marvel figures – Iron Man's Laboratory: Hall of Armor is a kids' build-play-and-display Avengers set for boys and girls aged 8 and up.

Super Hero characters – Iron Patriot, MK43 and MK6 Iron Man armor, Pepper Potts and Aldrich Killian minifigures, a buildable Dum-E robot and an MK3 mech with movable arms and legs and an opening cockpit.

Iron Man action and adventure – The lab features 3 armor pods, a maintenance platform with 2 robotic-style arms and a large scanning device and 2 stud shooters for when the battle action begins.

Fun accessories – Authentic details, like a fire extinguisher and 2 fire elements add to the imaginative play possibilities.

384-pieces – The 3 Iron Man armor pods measure over 3.5 in. (9 cm) high, 4.5 in. (11 cm) wide and 1.5 in. (5 cm) deep.

The front of the box shows 3 armor displays in the back that hold iron man's suits! In the front, there is a platform with robotic arms that is putting on Iron Man's suit! There is also a mech and another iron man suit that are fighting Aldrich Killian and putting out fires!

The back of the box shows the platform with robotic arms taking armor off of Iron Patriot. In the back, Aldrich Killian is being hauled away by the mech while Iron Man and Pepper Potts are enjoying a cup of coffee!

The top of the box shows a real size image of Aldrich Killian!

The build is 384 pieces in total and is for ages 8+.

Welcome to text-based instructions from Bricks for the Blind. Before you start building, here are some terms we'll be using:

- In Front of/Front: towards you.
- Behind/Back: away from you.
- Up: towards the ceiling.
- Down: towards the floor.
- Stud: the bump on a LEGO brick. Example: A 2x1 brick has two studs on it.
- Vertically: with the longest side going from front to back
- Horizontally: with the longest side going from left to right.
- Upright: pointing up towards the ceiling.

- Standing upright: The piece is perpendicular to the ground, like a wall.
- Lying flat: The piece is parallel to the ground, like a piece of toast which fell off the table.
- That one/ppp: previously placed piece.
- Plate: piece with studs.
- Tile: smooth piece without studs (unless otherwise specified)
- A jumper plate is a 1x2 plate with a single stud on top, or a 1x3 plate with only two studs on top.
- "Anti-stud" is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- Symmetrically: a mirror image. Example: If you place a 2x1 brick with technic connector on the front wall at the right, connector to the front, and then place another such piece symmetrically on the back wall, at the right, the technic connector of the second piece should point to the back, since it will be placed symmetrically.
- Centered-vertically: even amount of space in front of and behind piece
- Centered-horizontally: even amount of space left and right of piece.
- Row: studs lined up horizontally (left to right/side to side).
- Column: studs lined up upright or vertically (top to bottom/back to front).

A note on LEGO Technic™ part names. These parts are somewhat different from regular LEGO bricks. Here are some definitions in case the builder or helper is not familiar with LEGO Technic™.

Axles - An axle is a connector which has an X shaped cross-section. Because their cross section is not round, anything connected to an axle using an axle-hole will rotate with that axle. Axles are longer than they are wide, and the length of an axle corresponds with how many bricks long it is. Aka a 3L axle is three bricks long. Axles come in a variety of lengths, with a 2L axle being the shortest available. They may be combined with pins, or have circular stops on them. A stop prevents the axle from sliding through an axle-hole at a specific point on the axle.

Pins - A pin is a connector which has a circular cross section and a flanged notch out of one or both ends. This flanged notch allows them to click into bricks with a pin-hole. Pins come with and without friction ridges, which are small bumps on the pin which prevent them from rotating freely. For standard pins, black is a high friction pin, and gray is a low friction pin. A standard length pin is two brick lengths long, with a stop in the middle. This prevents a brick from being pushed from one side of the pin to the other. A 1L pin is one brick long and still retains the stop, however it also includes a hollow stud at the other end. A 3L pin is three bricks long, and only contains a stop at one side, allowing two bricks to be pushed onto the other side of the pin. Pins may also have one side which is an axle.

Technic brick - a brick which contains one or more holes which accept technic pins.

Lift-arms - A lift-arm is a basic structural element, similar to a brick or a plate, but usually without any studs. It is a beam with rounded ends and with holes in it, with the same spacing as the studs on a LEGO brick. lift-arms come in a variety of lengths, including a 1x1 lift-arm which looks like a cylinder. Thick lift-arms are as wide as a LEGO brick, and thin lift-arms are half as wide as a LEGO brick, but not the same thickness as a LEGO plate! The holes in a lift-arm arm may accept axles or pins. They also come in a variety of shapes, including tees, ells and triangles.

Gears - A gear is a functional element. They are typically discs with teeth on the outside, there are also worm gears which look like a spiraling cylinder! Gears connected by axles transmit or even transform rotational motion!

Axle and Pin Connectors - These elements are typically smaller than lift-arms and are used to connect some combination of pins or axles. They might have pins or axles, as well as axle or pin-holes. They have a lot of different angle combinations! The simplest just connects two axles or pins together in a straight line.

Bushes/Bushings - LEGO Technic™ uses bushes largely as spacers, but they also can reduce friction between rotating parts, or can form useful elements such as handles. Bushes are typically light gray, generally cylindrical, and have an axle-hole running through the middle. They have a flange at the front and back to make them easier to pull on and off.

For builders with low vision, or a sighted building partner may want to follow along with the printed visual instructions that come with each kit, or PDF versions are always online at LEGO.com for each set: (<https://www.lego.com/en-us/service/buildinginstructions/76315>) As low vision users may benefit from viewing the instructions on a personal device where they can zoom in on content and use assistive technologies to enhance the visuals.

Sorting the pieces:

To begin a successful build, it helps to sort the pieces into groups, bags, or small containers. Have a friend or family member do this in advance following the instructions below. You will see that the pieces should be sorted according to the building steps in the kit. Doing this in advance makes locating the pieces for each step easier. See below on how to sort the pieces to correspond to the steps in this set. Number the containers using letters A-Z, numbers, or meaningful names. The parts will be sorted into one or a small number of steps in the instructions. Example: Steps 1-3 means collect all the parts used in steps 1,2 and 3, and put them in one container.

This LEGO set comes with 3 bags labeled 1 to 3, 3 sets of instructions, and some loose pieces. Sort the pieces into groups or piles as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split into 2 groups to make telling the difference easier for the builder! LEGO includes a few spare parts in case you lose something. Set these into their own group away from the rest, in case you need them later.

Bag 1 - Iron Patriot, Pepper Potts, Platform with Robotic Arms, and Scanner

Group 1 - Pages 5-6, 5 red 1x1 transparent red 1x1 round plates, and 2 transparent red 1x1 round bricks from Page 6.

Group 2 - Rest of Page 6.

Group 3 - Steps 1-10.

Group 4 - Steps 11-17.

Group 5 - Steps 18-41.

Bag 2 - Iron Man and Mech

Group 6 - Page 3.

Group 7 - Steps 1-20 and 1 blue 1x1 tile with a 1x1 slope tile from Step 21.

Group 8 - Rest of Step 21, Steps 22-34, and 1 dark grey 1x1 tile with a 1x1 slope tile from Step 35.

Group 9 - Rest of Step 35 and Steps 36-45.

Group 10 - Steps 46-64.
Group 11 - Steps 65-83.
Group 12 - Steps 84-101.

Bag 3 - Iron Man display, Aldrich Killian, Robot, Fire, and Armor Displays
Group 13 - Left Minifigure on Page 3.
Group 14 - Right Minifigure on Page 3.
Group 15 - Steps 1-7.
Group 16 - Steps 1-10.
Group 17 - Steps 11-21.

Let's get to building!

Building Instructions (Bag 1, Book 1):

Group 1 - Iron Patriot

Sub-build 1.1. Locate 1 dark blue pair of legs printed with blue, red, and grey armor, 1 dark blue torso printed with red and blue armor, 1 dark grey neck bracket with 2 side studs, 1 brown head printed with eyes, lips, and scars, 1 dark blue helmet, and 1 dark blue face cover printed with a dark grey face with red outline. Assemble your minifigure, attach the neck bracket to his neck so the studs face the back, then attach the helmet to his head so the gap faces the front. Now attach the face cover to the front of it!

Sub-build 1.2. Let's make a part! Horizontally place a dark gray stud shooter in front of you so the hole faces the left and the bar faces down. Then horizontally insert a trigger into the slot on top so the thicker tab is to the right. Then place the bar of your part on a light gray 1x1 round plate with hollow stud so it overhangs to the left. Orient a red 1x1 short rounded brick with side stud so its anti stud faces the front and the side stud faces up. Place your stud shooter part on the top facing side stud. Then place your part upright on the back facing side stud of the neck bracket so the shooter is over his left shoulder.

Sub-build 1.3. Locate 5 transparent red 1x1 round plates and 2 transparent red 1x1 round bricks. Place the round bricks underneath his feet. Then attach a round plate to each of his hands. Now use the extra 3 round plates as the ammo for the stud shooter! Just insert the round plates into the barrels of the stud shooters and hit the trigger to shoot them!

Group 2 - Pepper Potts

Sub-build 2.1. Locate 1 black pair of legs, 1 black and white torso printed with a suit, 1 light tan head printed with eyes, lips, eyelashes, and 1 light orange hair. Assemble your minifigure then place her in front of you.

Sub-build 2.2. Let's make a part! Horizontally place a dark gray stud shooter in front of you so the hole faces the left and the bar faces down. Then horizontally insert a trigger into the slot on top so the thicker tab is to the right. Now locate 2 transparent aqua 1x1 round plates. This is the ammo for the stud shooter! Now put everything away while we make the next part!

Group 3 - Platform with Robotic Arms

1. Place a black 8x8 round plate in front of you. Then vertically place a black 2x4 brick on the 3rd and 4th columns from the right so it is centered vertically. Then repeat symmetrically to the left.
2. Vertically place a dark grey 1x2 rounded plate on the 2nd column from the right so it is centered vertically. Then repeat symmetrically to the left.
3. Horizontally place a dark grey 1x2 brick with a pinhole on the 2nd row from the back so it is centered horizontally. Now horizontally place a dark grey 1x2 plate with a bar on the long side on top of the ppp so the bar faces the back.
4. Vertically place a dark grey 1x2 brick with a pinhole on the 2nd column from the right so it is centered vertically. Then repeat symmetrically to the left.
5. Place a dark grey 2x2 tile with 2 studs on the front 2 rows so it is centered horizontally and the studs are in the back. Then horizontally place a transparent aqua 1x2 plate on top of the ppp so it is centered horizontally.
6. Horizontally place a dark grey 1x2 plate with a rail on the long side on top of the ppp so the rail faces the front.
7. Horizontally place a transparent aqua 1x4 tile on the 3rd row from the front so it is centered horizontally. Then repeat symmetrically to the back. Now vertically place a transparent aqua 1x2 tile on the 3rd column from the left so it is centered vertically. Then repeat symmetrically to the right.
8. Horizontally place a transparent aqua 1x2 plate on the 2nd row from the front so it is centered horizontally. Now horizontally place 2 more, 1 in front of the other, on top of the build so they are centered horizontally and vertically.
9. Vertically place a light grey 1x2 jumper plate with a round side on the 4th column from the left so it is centered vertically and the round side faces the left. Then repeat symmetrically to the right.
10. Place the rightmost column of a light grey 1x4 curved tile on the 2nd row from the front on the 4th column from the left so the curve faces the front left. It should only sit on 2 studs. Then repeat symmetrically to the right. Now repeat both parts symmetrically to the back. They should make a circle!

Group 4 - Platform with Robotic Arms

11. Let's make 2 identical parts! Horizontally place a light grey 1x2 plate with a socket on the short side in front of you so the socket faces the left. Then place a short black 1x1 rounded brick with a side stud on the right column so the side stud faces the right.
12. Horizontally place a yellow 1x1 tile with a 1x1 slope tile on top so it slopes to the left.
13. Place a yellow 1x1 round plate with a hollow stud upright on the right-facing side stud. Then insert a black claw with a bar into the right-facing side stud so the claw hands face up and down.
14. Attach the ball of a black 1L pin with a ball to the left-facing socket so the pin faces the left. Now attach a yellow 1L pin with a pin connector to the left-facing pin so the pin faces down.

15. Attach a yellow bar holder with a handle to the right-facing claw so the bar hole faces down. Now attach a black bar with a claw to the bottom-facing bar hole so the claw hands face left and right.

16. Now you should have 2 identical parts! Attach the pin of 1 part to the left-facing pinhole so the claw is on top and faces the right. Then repeat symmetrically to the right.

17.1. Attach 2 light grey skeleton arms with 2 clips, 1 to the right of the other, to the back-facing bar so the other clips face up. Make sure the bend faces the back. Now horizontally attach a transparent aqua 1x2 panel with a bar with a sticker to the top-facing clips of the 2 ppp so the sticker faces the front.

17.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 10 on the transparent 1x2 panel with a bar. This sticker has a screen of stats and the Iron Man core. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

Now put your build away while we make the next part!

Group 5 - Scanner

18. Let's make a sub-build! Horizontally place a black 4x6 plate in front of you.

19. Vertically place 2 light grey 1x2 jumper plates, 1 to the right of the other, on the back 2 rows so they are centered horizontally. Then horizontally place 2 more, 1 in front of the other, on the front right corner. Then repeat symmetrically to the left.

20. Place a light grey 1x2 curved tile on the back left corner so the curve faces the back left. Then repeat symmetrically to the right.

21. Horizontally place a dark grey 1x2 rounded plate on the 1x2 jumper plates that are on the back 2 rows so it is centered horizontally. Now horizontally place a yellow 1x2 plate with 2 clips on the long side on top of the ppp so the clips face the front.

22. Horizontally place a light grey 1x2 jumper plate on top of the ppp.

23. Place 2 dark grey 1x1 bricks with an axle hole, 1 in front of the other, on the top of the jumper plates that are on the front left corner so the axle holes face the front and back. Then repeat symmetrically to the right.

24. Vertically place a light grey 1x2 grill tile on the front right corner, on top of the 2 ppp. Then repeat symmetrically to the left.

25. Insert a dark grey 2L axle with an axle connector into the leftmost back-facing axle hole so the axle connector faces up. Then repeat symmetrically to the right.

26. Horizontally place a dark grey thin 5L lift arm with 3 pinholes and 2 axle holes on the 1x2 jumper plate that is on the back row so it is centered horizontally.

27. Let's make a part! Place a light grey 2x2 inverted tile in front of you.

28. Vertically place a light grey 1x2 plate with a stud and pinhole sticking up on the right column so the pinhole is in the back. Then repeat symmetrically to the left.

29. Horizontally place a dark grey 1x2 rounded plate on the front row.

30.1. Horizontally place a transparent aqua 1x2x3 panel with a sticker on top of the ppp so the wall faces the back.

30.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 11 on the transparent aqua 1x2x4 panel. This sticker has grey vertical lines on it. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

31. Horizontally place a dark grey 1x2 rounded plate on top of the ppp.

32. Vertically place a light grey 1x2 plate with a pinhole hanging down on the left column so the pinhole overhangs to the back. Then repeat symmetrically to the right.

33. Place a light grey 2x2 tile with 2 studs on top so the studs are in the back.

34. Let's make a part! Horizontally place a dark grey 5L thin lift arm with 3 pinholes and 2 axle holes in front of you so the holes face the front and back.

35. Insert a dark grey 8L axle with a stop into the leftmost front-facing axle hole so the axle faces the back. Then repeat symmetrically to the back.

36.1. Let's make another part! Horizontally place a light grey 5L thin lift arm in front of you so the pinholes face the front and back. Now insert a red 1L pin with a stop into the 2nd front-facing pinhole from the left so the stud faces the front. Then repeat symmetrically to the right.

36.2. Horizontally place a yellow 1x4 tile printed with diagonal black lines upright on the 2 front-facing side studs. Now attach the back-facing pins to the front-facing pinholes of the previous part so it is centered horizontally.

37. Now lay your previous part on its side so it is horizontal, the panel wall faces down. and the 2x2 tile faces the right. Now insert the axles of your current part into the back-facing pinholes so the axles face the front.

38. Insert the axles of your part into the 2 top-facing axle holes of the sub-build so the panel is in the front.

39. Horizontally attach the bar of a transparent aqua 3x7 panel with a sticker to the 2 front-facing clips so the panel is on top.

40. Skip this step if you have already placed your sticker! Ask a helper to place sticker 4 on the transparent aqua 3x7 panel with a bar. This sticker has light grey chestplate on it and says scan nano tech at the top. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

41. Make sure the sticker faces the back, then put your sub-build away while we make the next part!

Building Instructions (Bag 2, Book 2):

Group 6 - Iron Man

Sub-build 3.1. Locate 1 dark red pair of legs printed with gold and red armor, 1 dark red torso printed with red and gold armor, and a white core, 1 light tan head printed with eyes, lips, a mustache, and a transparent blue face shield, 1 dark red helmet, and 1 dark red face mask printed with gold armor and eyes. Assemble your minifigure, make sure the opening of the helmet faces the front, then attach the face mask to the front of the helmet!

Sub-build 3.2. Place a transparent aqua 1x1 round brick underneath each of his legs. Now attach a transparent aqua 1x1 round plate to each of his hands. You will have an extra transparent aqua 1x1 round plate. This is the ammo for his hand blasters! Now put everything away while we make a mech!

Group 7 - Mech

1. Horizontally place a blue 2x6 plate in front of you. Then vertically place a blue 1x2 plate on the leftmost column.
2. Vertically place 2 dark grey 1x2 plates with a ball on the short side, 1 in front of the other, on the 2nd column from the left so they are centered vertically and the balls face outwards to the front and back. Now horizontally place a dark grey 2x3 plate to the right of the 2 ppp so there is no overhang.
3. Vertically place a black 1x2 plate with a ball on the short ends on the rightmost column so the balls face the front and back.
4. Flip your build upside down so it is horizontal and the 1x2 plate with 2 balls is on the left. Now place a blue 2x2 inverted sloped curved tile on the front 2 rows of the 2 rightmost columns so it slopes to the front and overhangs in the front right corner. Then repeat symmetrically to the back.
5. Place a blue 2x2 inverted round tile with a rounded bottom to the left of the 2 ppp.
6. Vertically place a dark grey 1x2 plate with 2 clips on the long side on the leftmost column so the clips face the left. Then place a blue 2x2 inverted sloped curved tile on the 2 leftmost columns so it slopes to the right.
7. Flip your build over so it is right side up, horizontal, and the clips face the right. Now place a dark grey 1x1 plate with 2 side studs sticking up on the front left corner so the side studs face the left. Then repeat symmetrically to the back.
8. Horizontally place a blue 1x2 plate on the front left corner. Then repeat symmetrically to the back.
9. Horizontally place a blue 2x6 plate on top so it is centered vertically and horizontally.
10. Vertically place a blue 1x4 plate on the leftmost column. Now place a silver 1x1 round plate on the front row to the right of the ppp. Then repeat symmetrically to the back.
11. Horizontally place a dark grey 1x2 plate with a stud and a clip on the front left corner so the clip is on the left. Then repeat symmetrically to the back.

12. Vertically place a blue 1x2 slope tile on the leftmost column so it is centered vertically and slopes to the right. Now vertically place 2 blue 1x1 tiles with a 1x1 slope tile, 1 in front of the other, to the right of the ppp so they slope inwards to the front and back.

13. Vertically place a silver 1x2 ingot tile upright on the front column of left-facing side studs. Then repeat symmetrically to the back.

14. Let's make a part! Horizontally place a dark grey 1x2 plate with bars on the short ends in front of you. Then vertically place a blue 1x2 plate on the right column so 1 row overhangs to the front.

15. Horizontally place a dark grey 1x2 plate with bars on the short ends underneath the front row so it is aligned with the previous 1x2 plate with bars.

16. Place a blue 2x2 sloped curved tile on top so it slopes to the left.

17. Horizontally attach the bars of your part upside down to the right-facing clips of the sub-build so the anti-studs face up, and the 2x2 sloped curved tile slopes to the right. Now rotate the part so the right-facing bars face the top left.

18. Let's make a part! Horizontally place a dark grey 1x2 plate with a ball and socket in front of you so the ball faces the right. Now horizontally place a dark grey 1x2 plate with 2 side studs hanging down on top so the side studs face the front.

19.1. Horizontally place a blue 1x2 tile with a sticker upright on the front-facing side studs.

19.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 5 on the blue 1x2 tile. This sticker has blue and white diagonal lines. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

20. Place a blue 2x2 inverted round tile with a rounded bottom underneath your part so 1 row is exposed to the back.

21.1. Vertically place a blue 1x1 tile with a 1x1 slope tile on the left column so it slopes to the back.

Group 8 - Mech

21.2. Vertically place a dark grey 1x1 tile with a 1x1 slope tile on the right column so it slopes to the back.

22. Bring back your mech build and orient it in front of you so it is horizontal and the ingot tiles face the left. Now attach the socket of your part to the rightmost back-facing ball so the tiles with a slope face the back and the ball faces the right.

23. Let's make a part! Horizontally place a dark grey 1x2 plate with 2x2 side studs sticking up in front of you so the side studs face the back. Now horizontally place a light grey 1x2 plate on top.

24. Horizontally place a light grey 1x2 plate with a socket on the short side on top so the socket faces the right.

25. Horizontally place a light grey 1x2 plate on top.
26. Horizontally place a blue 1x2 plate with 2x2 side studs hanging down on top so the side studs face the front.
27. Place a blue 1x1 slope tile on the leftmost column so it slopes to the right.
28. Place a blue 2x2 corner tile with a cutoff corner upright on the front-facing side studs so the cutoff corner faces the top left. Then repeat symmetrically to the back.
29. Place a silver 1x1 round plate upright on the front-facing side stud. Then repeat symmetrically to the back.
30. Rotate your part so the socket faces up and the anti-studs face the right. Then vertically place a blue 1x2 inverted slope brick upright on the right-facing anti-studs so it slopes up.
31. Attach the socket of your part to the right-facing ball so the 1x1 slope tile is on top.
32. Let's make a part! Horizontally place a dark grey 1x2 plate with a ball and socket in front of you so the ball faces the left. Now horizontally place a dark grey 1x2 plate with 2 side studs hanging down on top so the side studs face the front.
- 33.1. Horizontally place a blue 1x2 tile with a sticker upright on the front-facing side studs.
- 33.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 9 on the blue 1x2 tile. This sticker has blue and white diagonal lines. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.
34. Place a blue 2x2 inverted round tile with a rounded bottom underneath your part so 1 row is exposed to the back.
- 35.1. Vertically place a dark grey 1x1 tile with a 1x1 slope tile on the left column so it slopes to the back.

Group 9 - Mech

- 35.2. Vertically place a blue 1x1 tile with a 1x1 slope tile on the right column so it slopes to the back.
36. Horizontally attach the socket of your part to the rightmost front-facing ball so the 1x2 tile is on top and the ball faces the right.
37. Let's make a part! Horizontally place a dark grey 1x2 plate with 2x2 side studs sticking up in front of you so the side studs face the back. Now horizontally place a light grey 1x2 plate on top.
38. Horizontally place a light grey 1x2 plate with a socket on the short side on top so the socket faces the left.
39. Horizontally place a light grey 1x2 plate on top.

40. Horizontally place a blue 1x2 plate with 2x2 side studs hanging down on top so the side studs face the front.
41. Place a blue 1x1 slope tile on the rightmost column so it slopes to the left.
42. Place a blue 2x2 corner tile with a cutoff corner upright on the front-facing side studs so the cutoff corner faces the top right. Then repeat symmetrically to the back.
43. Place a silver 1x1 round plate upright on the front-facing side stud. Then repeat symmetrically to the back.
44. Orient your part so the socket faces up and the anti-studs face the left. Then vertically place a blue 1x2 inverted slope brick upright on the left-facing anti-studs so it slopes up.
45. Attach the socket of your part to the right-facing ball so the 1x1 slope tile is on top. These are the mech's feet! Now lift your mech upright so it sits on the feet. Make sure the 2x4 studs face the front!

Group 10 - Mech

46. Let's make a part! Let's make an arm! Horizontally place a dark grey 2x2 round tile with a hole with 2 angled 2x2 plates in front of you so the studs are in the back. Now vertically place a light grey 1x2 plate with a socket on the long side on the rightmost column so the socket faces the right.
47. Vertically place a dark grey 1x4 plate with inverted sloped sides underneath the rightmost column so it is centered vertically.
48. Place a blue 2x2 plate with a cutoff corner on the front right corner so the cutoff corner overhangs to the front left. Then repeat symmetrically to the back.
49. Vertically place a dark grey 1x2 plate with a bar on the short side on the leftmost column so the bar faces the back.
50. Vertically place a blue 1x2 plate with a bar on the long side on the leftmost column so the bar faces the left. Then place a blue 2x2 plate with a cutoff corner to the right of the ppp so the cutoff corner faces the back right.
51. Vertically place a light grey 1x2 plate on the rightmost column so it is centered vertically.
52. Place a light grey 2x2 corner plate to the left of the ppp so it looks like the braille letter j and overhangs 1 column to the left. Now place a light grey 1x1 plate with a side stud sticking up underneath the overhang of the ppp so the side stud faces the front.
53. Place a blue 2x2 sloped curved corner brick with a 1x1 plate on the front right corner so 1 column overhangs to the right and it slopes to the front right. Then repeat symmetrically to the back.
54. Vertically place a blue 1x2 grill tile on top of the 2 ppp so it is centered vertically.
55. Vertically place a blue 1x2 slope tile to the left of the ppp so it slopes to the left.

56. Vertically place a dark grey 1x1 tile with a 1x1 slope tile to the left of the ppp so it slopes to the back.

57. Place a silver 1x1 round plate upright on the front-facing side stud. Now place a blue 1x1 round tile upright on the ppp.

58. Place a blue 1x1 plate on the front left corner. Then horizontally place a dark grey 1x2 plate with 2 side studs hanging down to the right of the ppp so the side studs face the front.

59.1. Place a blue 2x2 sloped curved tile with a sticker on the 2 leftmost columns so it slopes to the back.

59.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 8 on the blue 2x2 sloped curved tile. This sticker has blue and white diagonal lines. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

60. Vertically place a blue 1x2 angled sloped curved tile to the right of the ppp so it slopes to the back and the angled side is on the right.

61. Horizontally place a dark grey 1x2 plate with a bar on the short side upright on the 2 front-facing side studs so the bar faces the left.

62. Horizontally place a silver 1x2 ingot tile upright on the ppp.

63. Rotate your part 180 degrees. Now attach 3 silver L-shaped bar holders with a clip to the right-facing bar so the bar holders face down. Now attach a silver bar holder with a clip to the front-facing bar so the bar holder faces down.

64. Attach the left-facing socket of your part to the right-facing ball of the mech so the hand faces the front!

Group 11 - Mech

65. Let's make a part! Let's make an arm! Horizontally place a dark grey 2x2 round tile with a hole with 2 angled 2x2 plates in front of you so the studs are in the back. Now vertically place a light grey 1x2 plate with a socket on the long side on the leftmost column so the socket faces the left.

66. Vertically place a dark grey 1x4 plate with inverted sloped sides underneath the leftmost column so it is centered vertically.

67. Place a blue 2x2 plate with a cutoff corner on the front left corner so the cutoff corner overhangs to the front right. Then repeat symmetrically to the back.

68. Vertically place a dark grey 1x2 plate with a bar on the short side on the rightmost column so the bar faces the back.

69. Vertically place a blue 1x2 plate with a bar on the long side on the rightmost column so the bar faces the right. Then place a blue 2x2 plate with a cutoff corner to the left of the ppp so the cutoff corner faces the back left.

70. Vertically place a light grey 1x2 plate on the leftmost column so it is centered vertically.

71. Place a light grey 2x2 corner plate to the right of the ppp so it looks like the braille letter h and overhangs 1 column to the right. Now place a light grey 1x1 plate with a side stud sticking up underneath the overhang of the ppp so the side stud faces the front.

72. Place a blue 2x2 sloped curved corner brick with a 1x1 plate on the front left corner so 1 column overhangs to the left and it slopes to the front left. Then repeat symmetrically to the back.

73. Vertically place a blue 1x2 grill tile on top of the 2 ppp so it is centered vertically.

74. Vertically place a blue 1x2 slope tile to the right of the ppp so it slopes to the left.

75. Vertically place a dark grey 1x1 tile with a 1x1 slope tile to the right of the ppp so it slopes to the back.

76. Place a silver 1x1 round plate upright on the front-facing side stud. Now place a blue 1x1 round tile upright on the ppp.

77. Place a blue 1x1 plate on the front right corner. Then horizontally place a dark grey 1x2 plate with 2 side studs hanging down to the left of the ppp so the side studs face the front.

78.1. Place a blue 2x2 sloped curved tile with a sticker on the 2 rightmost columns so it slopes to the back.

78.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 6 on the blue 2x2 sloped curved tile. This sticker has blue and white diagonal lines. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

79. Vertically place a blue 1x2 angled sloped curved tile to the right of the ppp so it slopes to the back and the angled side is on the left.

80. Horizontally place a dark grey 1x2 plate with a bar on the short side upright on the 2 front-facing side studs so the bar faces the right.

81. Horizontally place a silver 1x2 ingot tile upright on the ppp.

82. Rotate your part 180 degrees. Now attach 3 silver L-shaped bar holders with a clip to the left-facing bar so the bar holders face down. Now attach a silver bar holder with a clip to the front-facing bar so the bar holder faces down.

83. Attach the left-facing socket of your part to the left facing ball of the mech so the hand faces the front!

Group 12 - Mech

84. Let's make a part! Place a blue 2x2 inverted sloped curved tile in front of you so it slopes to the right.

85. Horizontally place a blue 1x2 plate with a clip on the short side on the back left corner so 1 column overhangs to the left and the clip faces the left. Then repeat symmetrically to the front.

86. Vertically place a blue 1x2 plate underneath the leftmost column.

87. Place a blue 2x2 plate with a cutoff corner on the front right corner so 1 row overhangs to the front and the cutoff corner faces the front left. Then repeat symmetrically to the back.

88.1. Place a blue 2x2 sloped curved tile with a sticker on the 2 leftmost columns so it slopes to the left.

88.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 7 on the blue 2x2 sloped curved tile. This sticker has blue metal printed with a silver handle. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

89. Vertically place a blue 1x2 tile on the rightmost column so it is centered vertically.

90. Horizontally place a dark grey 1x2 plate with an inverted slope underneath the front right corner so the 1x1 plate is exposed to the right. Then place a silver 1x1 round plate on the right column of the ppp. Now repeat both parts symmetrically to the back.

91. Horizontally place a blue 1x1 tile with a 1x1 slope tile on the front right corner so it slopes to the right. Then repeat symmetrically to the back.

92. Attach the clips of your part to the front-facing bar of your mech that is below the upright 2x4 plate so it sticks up and the upright 2x2 sloped curved tile faces the front.

93. Let's make a part! Horizontally place a blue 1x4 sloped curved tile in front of you.

94. Vertically place a dark grey 1x2 plate with a bar on the short side underneath the leftmost column so 1 row and the bar are exposed to the front. Then repeat symmetrically to the right.

95. Horizontally place a blue 1x4 sloped curved tile on the front row.

96. Rotate your part so the bars face the back, then place the side studs of a blue 1x2 plate with 2x2 side studs hanging down underneath the part so it is centered horizontally and the 2 studs face the front. Then place 2 dark grey 1x1 tiles with a clip, 1 to the right of the other, upright on the front-facing side studs so the clip hands face up and down.

97. Let's make another part! Place a dark grey 2x2 plate with a bar underneath in front of you so the bar is in the back. Now horizontally place a blue 1x2 plate with 2 side studs hanging down on the back row so the side studs face the back.

98. Place a blue 2x2 sloped curved tile printed with a dark grey iron man mask on top so it slopes to the front.

99. Horizontally place a blue 1x2 tile upright on the back-facing side studs.

100. Attach the bar of your part to the front-facing clips of the previous part so it slopes down.

101. Attach the bars of your part to the 2 top front-facing clips so the 2x2 sloped curved tile is in the front and slopes down. Now put your mech away while we make the next part!

Building Instructions (Bag 3, Book 3):

Group 13 - Iron Man Display

Sub-build 4. Locate 1 dark red pair of legs printed with gold and red armor, 1 dark red torso printed with red and gold armor, and a white core, 1 transparent aqua head, 1 dark red helmet, and 1 dark red face mask printed with gold armor and eyes. Assemble your minifigure, make sure the opening of the helmet faces the front, then attach the face mask to the front of the helmet! Now put it away while we make Aldrich!

Group 14 - Aldrich Killian

Sub-build 5. Locate 1 light grey pair of legs, 1 light tan torso printed with muscles, and an orange chest with black veins, 1 light tan head printed with eyes, lips, and scars, and 1 light brown hair. Assemble your minifigure, then put him away while we make a robot and fire!

Group 15 - Robot and Fire

1. Horizontally place a black 1x3 rounded plate in front of you. Then place a yellow 1x1 round plate with a hollow stud on the rightmost column.

2. Place a 2L bar with a stop on the rightmost column.

3. Place the bar of a yellow droid body on the middle stud so the side stud faces the left.

4. Place a yellow 1x1 round plate on the rightmost column so the anti-stud faces up. Now horizontally place a black 1x3 rounded plate on top so it is centered horizontally and the anti-studs face up.

5. Lay your part on the 2 1x3 rounded plates so the side stud of the droid faces left. Now attach a silver L-shaped bar holder with a clip to the top-facing bar so the bar holder faces the left. Now attach a black claw with a bar to the left-facing bar hole so the claw hands are in the front and back.

6. Let's make a part! Place a red 1x1 round brick in front of you. Now place a red 1x1 faucet on top so the bar faces the left. This is a fire extinguisher! Now attach it to the left-facing claw so the bar faces the left!

7.1. Let's make 2 identical parts! Place a transparent orange 2x2 dish in front of you. Then place a transparent orange flame on top.

7.2. Now you should have 2 identical parts! Place them in front of you next to the robot! Now put everything away while we make the armor displays!

Group 16 - Armor Displays

1. Let's make 3 identical parts! Place a black 4x4 plate in front of you. Then horizontally place a light grey 1x2 plate on the back row so it is centered horizontally.

2. Horizontally place a dark grey 1x2 rounded plate on top of the ppp. Then horizontally place a yellow 1x2 plate with 2 clips on the long side on the ppp so the clips face the back.

3. Place a light grey 1x1 brick on the back left corner. Then repeat symmetrically to the right.

4. Horizontally place a light grey 1x2 brick with a bar on the short side on the 2nd row from the back on the 2 rightmost columns so the bar faces the right.
5. Place a light grey 1x1 brick with a clip on the leftmost column on the 2nd row from the back so the clip faces the left. Then place a light grey 1x1 brick to the right of the ppp.
6. Place a light grey 1x1 round plate on the leftmost column on the 2nd row from the front. Then repeat symmetrically to the right.
7. Place a dark grey 2x2 brick on the front 2 rows so it is centered horizontally. Then horizontally place a light grey 1x2 grill tile on the 2nd row from the front so it is centered horizontally.
8. Horizontally place a dark grey 1x4x6 door frame on the back row so the ridged side faces the back. Then horizontally place another 1 in front of the ppp so the ridged side faces the front.
9. Place a light grey 2x2 tile with 2 studs on the back 2 rows so it is centered horizontally and the studs are in the back. Now vertically place a light grey 1x2 plate with a clip on the short side to the left of the ppp so the clip faces the front. Then repeat symmetrically to the right.
10. Place a transparent aqua 1x6 panel with 2 bars on the leftmost column on the 2nd row from the front so the ridged side faces the left and the top bar attaches to the front-facing clip. Then repeat symmetrically to the right.
11. Let's make a part! Place a dark grey 4x4 plate in front of you. Then horizontally place a light grey 1x4 plate on the 2nd row from the back.
12. Place a light grey 1x1 brick with a clip on the 2nd row from the back on the leftmost column so the clip faces the left. Then place a light grey 1x1 brick to the right of the ppp. Now horizontally place a light grey 1x2 brick with a bar on the short side to the right of the ppp so the bar faces the right.
13. Horizontally place 2 light grey 1x2 tiles with a bar on top, 1 to the right of the other, on the 2nd row from the front so they slope to the front.
14. Horizontally place a light grey 1x2 grill tile on the front right corner. Then repeat symmetrically to the left.
15. Horizontally place a dark grey 1x4 tile with 2 studs on the 2nd row from the back.
16. Place your part on top of the previous sub-build so it overhangs 2 rows to the front and the grill tiles are in the front.
17. Now you should have 3 identical parts! Place 1 in front of you so the grill tiles are in the front. Then place another 1 to the right and attach the clips of it to the bars of the first part. Then repeat again to the right.
18. Place a white 1x1 mug on the front row on the 2nd column from the right so the handle is in the front.

19.1. Attach the bar of a transparent aqua 3x7 panel with a bar and a sticker to the 2 rightmost back-facing clips so it is upright and the sticker faces the front.

19.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 2 on the transparent aqua 3x7 panel with a bar. This sticker has a screen of Iron Man's armor. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

20.1. Attach the bar of a transparent aqua 3x7 panel with a bar and a sticker to the 2 rightmost back-facing clips, to the left of the ppp so it is upright and the sticker faces the front.

20.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 1 on the transparent aqua 3x7 panel with a bar. This sticker has a screen of Iron Man's armor. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

21.1. Attach the bar of a transparent aqua 3x7 panel with a bar and a sticker to the 2 leftmost back-facing clips so it is upright and the sticker faces the front.

21.2. Skip this step if you have already placed your sticker! Ask a helper to place sticker 3 on the transparent aqua 3x7 panel with a bar. This sticker has a screen of Iron Man's armor. Make sure it is placed on correctly and is oriented on the build correctly, ask a sighted person to check.

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