



TM3D-15
BATTLEGEUS
INSTRUCTION 1

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SCAN ME



Apple Augmented Reality*

*IPADOS or iOS 12.0+



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TOY MAKER FOR 3D PRINTING

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Contains small parts and requires high precision. Your printer may need to be properly calibrated for best results. (Tolerances: Peg 0.15mm, Balljoint 0mm, Slide 0.3mm, Screws 0.4mm)



Settings:

Printer Volume: 220mmX220mmX220mm
Support : NO
Nozzle : 0.4mm
Layer : 0.2mm big parts, 0.15mm medium parts,
head & small parts 0.1mm
Filament : PLA
Temp : 205°C (220°C High Speed)
Speed : 40mm/s (normal), 300mm/s(High Speed)
Skin/top/bott : 0.8/0.8/0.8 mm
Infill : 20-25% (50% for screws)

Height	: 750mm / 29.5 inch
Robot Total	: 366 Parts, 4.730 gram
- Chocolate	: 96 Parts, 1990 gram
- Black	: 23 Parts, 400 gram
- Light Blue	: 20 Parts, 40 gram
- Grey	: 140 Parts, 1070 gram
- Dark Blue	: 75 Parts, 1160 gram
- Green	: 15 Parts, 55 gram
- Skin	: 2 Parts, 15 gram

Biggest Part : 2a_BG_Chest1_CHOCOLATE [152mm W X 152mm L X 110mm H]
Highest Part : 7dL/R_BG_Foot4_CHOCOLATE [95mm W X 108mm L X 141 mm H]

Tools: Cutter, Sand Paper, Super Glue, Nail Polish



Tips & Tricks:

Print result isn't smooth enough and parts aren't fit properly:

- Calibrate your printer properly
- Make sure you print it in right temperature
- If you print it too fast, it may cause ghosting on the surface of the object
- Decrease the layer height (0.15mm for small figure and 1 mm for the head/face)

Object won't stick to the print bed:

- Setup your bed leveling properly
- Use brim for small objects which have small contact to the bed
- Increase first layer extrusion to 125%-150%
- If you are using Buildtak, sand the surface using sand paper
- Set the printing speed of the first layer to 20 m/s

How to fix loose ball joint?

- Material Shrinkage: PLA 0.2%, ABS 0.8%
- Use clear nail polish. Use it on both female and male ball joint section or on friction joint surfaces. Wait until it dry before put them back in place
- If the ball joint is loose right after printing, It may cause by under extrusion. Increase filament flow rate by 110% - 125%

Finishing touch

- Use cutter or sand paper for peg adjustment
- Use super glue to assemble the part
- Spray the finishing object using clear coat to protect the object from the weather for long term use.



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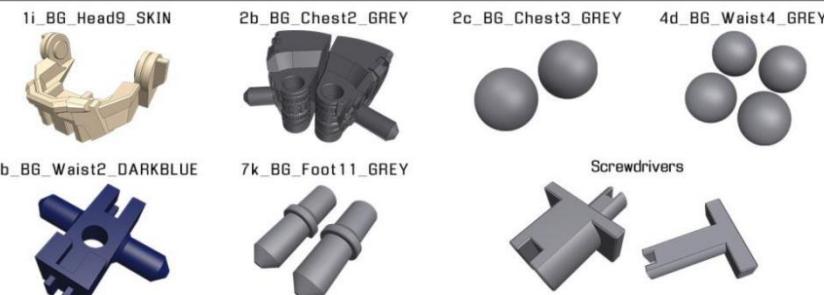
FILES

- | | | | | |
|-----------------------------|------------------------------|-----------------------------|------------------------------|------------------------------------|
| 1. 0_BG_ScrewA_CHOCOLATE | 41. 2q_BG_Chest17_LIGHTBLUE | 81. 5b_BG_Hand2_DARKBLUE | 121. 7h_BG_Foot8_BLACK | 159. Z(resin)0_BG_ScrewG_DARKBLUE |
| 2. 0_BG_ScrewB_DARKBLUE | 42. 2r_BG_Chest18_GREY | 82. 5c_BG_Hand3_CHOCOLATE | 122. 7i_BG_Foot9_LIGHTBLUE | 160. Z(resin)0_BG_ScrewH_DARKBLUE |
| 3. 0_BG_ScrewC_GREY | 43. 2s_BG_Chest19_BLACK | 83. 5d_BG_Hand4_CHOCOLATE | 123. 7j_BG_Foot10_LIGHTBLUE | 161. Z(resin)0_BG_ScrewI_CHOCOLATE |
| 4. 0_BG_ScrewD_GREY | 44. 2t_BG_Chest20_LIGHTBLUE | 84. 5e_BG_Hand5_DARKBLUE | 124. 7k_BG_Foot11_GREY | 162. Z(resin)9a1_BG_Blast_GREEN |
| 5. 0_BG_ScrewE_GREY | 45. 2u_BG_Chest21_GREY | 85. 5f_BG_Hand6_CHOCOLATE | 125. 7l_BG_Foot12_CHOCOLATE | |
| 6. 0_BG_ScrewF_GREY | 46. 2v_BG_Chest22_LIGHTBLUE | 86. 5g_BG_Hand7_GREY | 126. 7IR_BG_Foot12_CHOCOLATE | |
| 7. 0_BG_ScrewG_DARKBLUE | 47. 2w_BG_Chest23_GREY | 87. 5h_BG_Hand8_GREY | 127. 7m_BG_Foot13_BLACK | |
| 8. 0_BG_ScrewH_DARKBLUE | 48. 2x_BG_Chest24_DARKBLUE | 88. 5i_BG_Hand9_GREY | 128. 7n_BG_Foot14_LIGHTBLUE | |
| 9. 0_BG_ScrewI_CHOCOLATE | 49. 2y_BG_Chest25_DARKBLUE | 89. 5j_BG_Hand10_GREY | 129. 7oL_BG_Foot15_CHOCOLATE | |
| 10. 1a_BG_Head1_CHOCOLATE | 50. 2z_BG_Chest26_CHOCOLATE | 90. 5k_BG_Hand11_GREY | 130. 7oR_BG_Foot15_CHOCOLATE | |
| 11. 1b_BG_Head2_BLACK | 51. 2za_BG_Chest27_CHOCOLATE | 91. 5l_BG_Hand12_CHOCOLATE | 131. 7pl_BG_Foot16_BLACK | |
| 12. 1c_BG_Head3_LIGHTBLUE | 52. 3a_BG_Abdomen1_GREY | 92. 5m_BG_Hand13_CHOCOLATE | 132. 7pR_BG_Foot16_BLACK | |
| 13. 1d_BG_Head4_SKIN | 53. 3b_BG_Abdomen2_GREY | 93. 5n_BG_Hand14_CHOCOLATE | 133. 7q_BG_Foot17_GREY | |
| 14. 1e_BG_Head5_GREY | 54. 3c_BG_Abdomen3_GREY | 94. 5o_BG_Hand15_CHOCOLATE | 134. 7r_BG_Foot18_CHOCOLATE | |
| 15. 1f_BG_Head6_CHOCOLATE | 55. 3d_BG_Abdomen4_CHOCOLATE | 95. 5p_BG_Hand16_CHOCOLATE | 135. 7s_BG_Foot19_BLACK | |
| 16. 1g_BG_Head7_CHOCOLATE | 56. 3e_BG_Abdomen5_CHOCOLATE | 96. 5q_BG_Hand17_CHOCOLATE | 136. 7t_BG_Foot20_GREY | |
| 17. 1h_BG_Head8_CHOCOLATE | 57. 3f_BG_Abdomen6_DARKBLUE | 97. 5r_BG_Hand18_GREY | 137. 8a_BG_Gun1_BLACK | |
| 18. 1i_BG_Head9_SKIN | 58. 3g_BG_Abdomen7_DARKBLUE | 98. 5s_BG_Hand19_CHOCOLATE | 138. 8b_BG_Gun2_BLACK | |
| 19. 1j_BG_Head10_GREY | 59. 4a_BG_Waist1_DARKBLUE | 99. 5t_BG_Hand20_CHOCOLATE | 139. 8c_BG_Gun3_GREY | |
| 20. 1k_BG_Head11_CHOCOLATE | 60. 4b_BG_Waist2_DARKBLUE | 100. 5u_BG_Hand21_GREY | 140. 8d_BG_Gun4_GREY | |
| 21. 1l_BG_Head12_BLACK | 61. 4c_BG_Waist3_DARKBLUE | 101. 5v_BG_Hand22_CHOCOLATE | 141. 8e_BG_Gun5_GREY | |
| 22. 1m_BG_Head13_BLACK | 62. 4d_BG_Waist4_GREY | 102. 6a_BG_Thigh1_GREY | 142. 8f_BG_Gun6_GREY | |
| 23. 1n_BG_Head14_DARKBLUE | 63. 4e_BG_Waist5_DARKBLUE | 103. 6b_BG_Thigh2_GREY | 143. 8g_BG_Gun7_GREEN | |
| 24. 1o_BG_Head15_DARKBLUE | 64. 4f_BG_Waist6_DARKBLUE | 104. 6c_BG_Thigh3_GREY | 144. 8h_BG_Gun8_BLACK | |
| 25. 2a_BG_Chest1_CHOCOLATE | 65. 4g_BG_Waist7_DARKBLUE | 105. 6d_BG_Thigh4_DARKBLUE | 145. 8i_BG_Gun9_GREY | |
| 26. 2b_BG_Chest2_GREY | 66. 4h_BG_Waist8_CHOCOLATE | 106. 6e_BG_Thigh5_DARKBLUE | 146. 8j_BG_Gun10_GREEN | |
| 27. 2c_BG_Chest3_GREY | 67. 4i_BG_Waist9_DARKBLUE | 107. 6f_BG_Thigh6_BLACK | 147. 8k_BG_Gun11_GREEN | |
| 28. 2d_BG_Chest4_CHOCOLATE | 68. 4j_BG_Waist10_CHOCOLATE | 108. 6g_BG_Thigh7_GREY | 148. 8l_BG_Gun12_GREEN | |
| 29. 2e_BG_Chest5_DARKBLUE | 69. 4k_BG_Waist11_DARKBLUE | 109. 6h_BG_Thigh8_GREY | 149. 8m_BG_Gun13_BLACK | |
| 30. 2f_BG_Chest6_BLACK | 70. 4l_BG_Waist12_CHOCOLATE | 110. 6h_BG_Thigh9_GREY | 150. 9a1_BG_Blast_GREEN | |
| 31. 2g_BG_Chest7_DARKBLUE | 71. 4m_BG_Waist13_DARKBLUE | 111. 6j_BG_Thigh10_DARKBLUE | 151. ScrewDriver | |
| 32. 2h_BG_Chest8_DARKBLUE | 72. 4n_BG_Waist14_CHOCOLATE | 112. 7aL_BG_Foot1_DARKBLUE | 152. Screwdriver2 | |
| 33. 2i_BG_Chest9_DARKBLUE | 73. 4o_BG_Waist15_DARKBLUE | 113. 7aR_BG_Foot1_DARKBLUE | | |
| 34. 2j_BG_Chest10_LIGHTBLUE | 74. 4p_BG_Waist16_DARKBLUE | 114. 7b_BG_Foot2_DARKBLUE | | |
| 35. 2k_BG_Chest11_BLACK | 75. 4q_BG_Waist17_CHOCOLATE | 115. 7c_BG_Foot3_DARKBLUE | | |
| 36. 2l_BG_Chest12_DARKBLUE | 76. 4r_BG_Waist18_DARKBLUE | 116. 7dL_BG_Foot4_CHOCOLATE | | |
| 37. 2m_BG_Chest13_DARKBLUE | 77. 4s_BG_Waist19_CHOCOLATE | 117. 7dR_BG_Foot4_CHOCOLATE | | |
| 38. 2n_BG_Chest14_DARKBLUE | 78. 4t_BG_Waist20_DARKBLUE | 118. 7e_BG_Foot5_BLACK | | |
| 39. 2o_BG_Chest15_GREY | 79. 4u_BG_Waist21_CHOCOLATE | 119. 7f_BG_Foot6_LIGHTBLUE | | |
| 40. 2p_BG_Chest16_LIGHTBLUE | 80. 5a_BG_Hand1_CHOCOLATE | 120. 7g_BG_Foot7_GREY | | |

Options For Resin Print:

- 153. Z(resin)0_BG_ScrewA_CHOCOLATE
- 154. Z(resin)0_BG_ScrewB_DARKBLUE
- 155. Z(resin)0_BG_ScrewC_GREY
- 156. Z(resin)0_BG_ScrewD_GREY
- 157. Z(resin)0_BG_ScrewE_GREY
- 158. Z(resin)0_BG_ScrewF_GREY

Screws:





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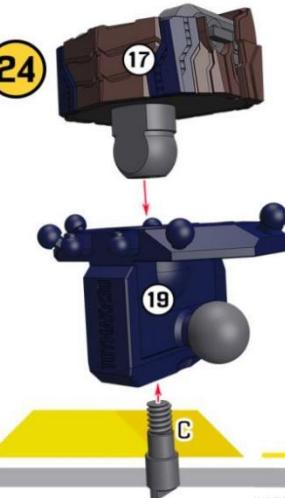
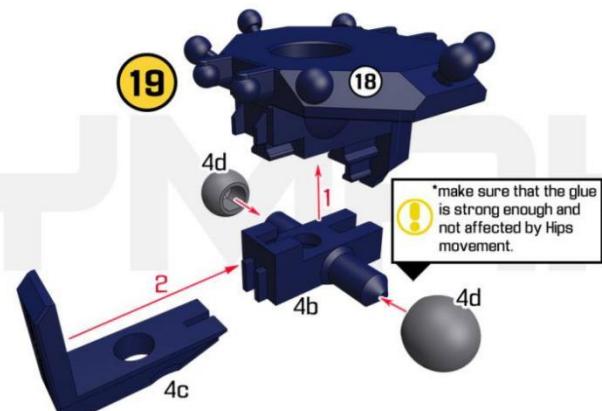
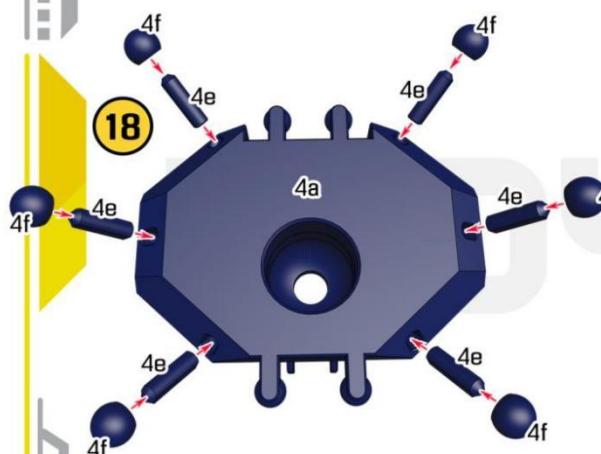
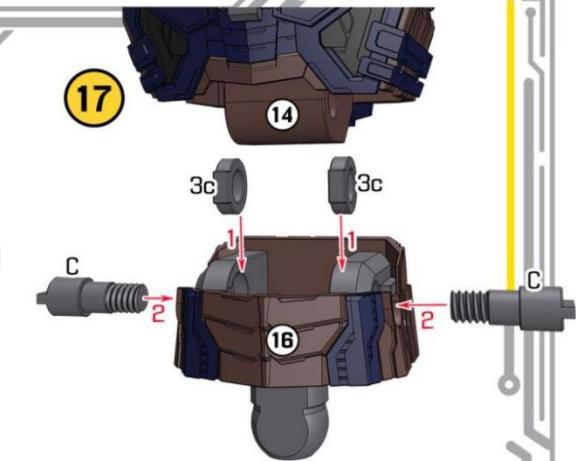
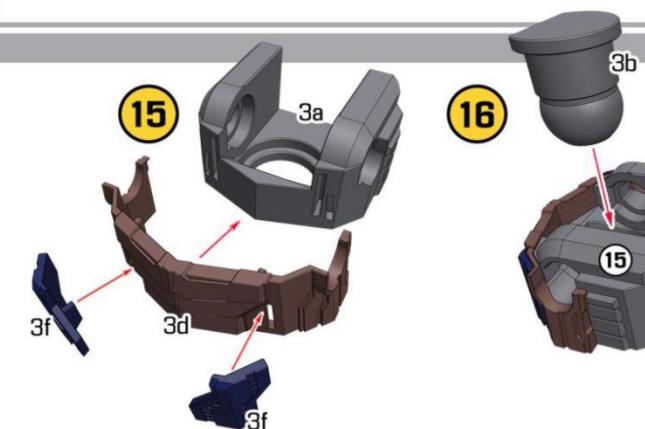
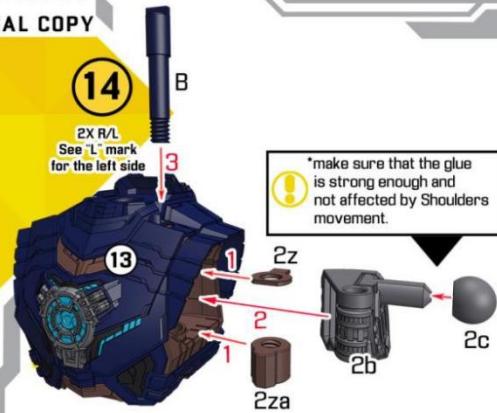
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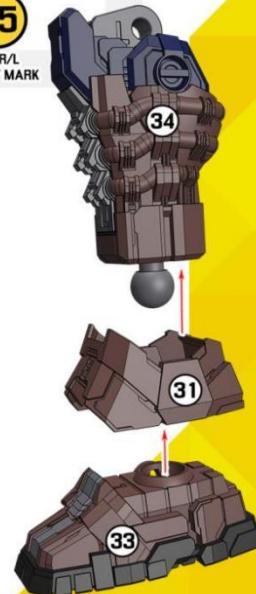
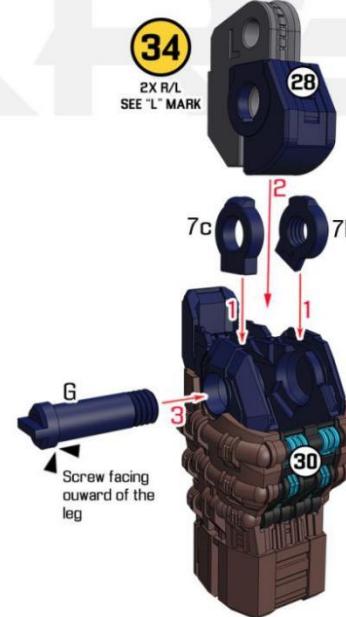
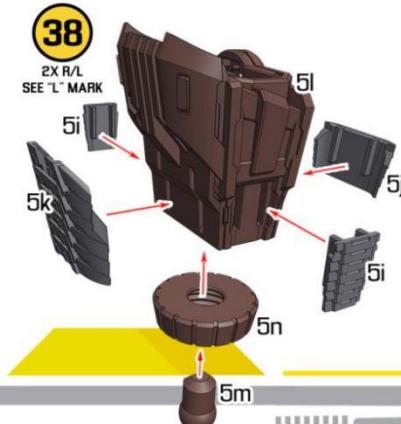
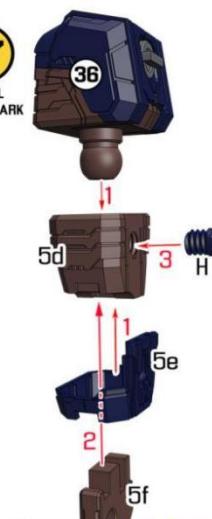
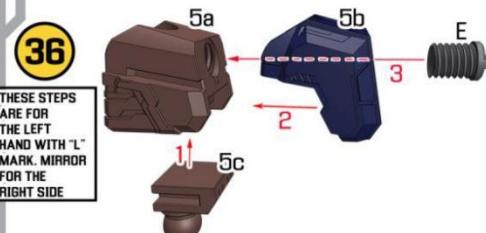
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*make sure that the glue is strong enough and not affected by Ankle movement.

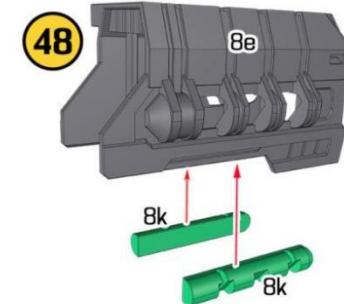
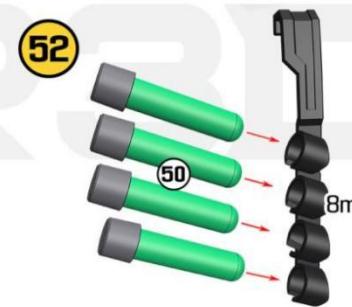
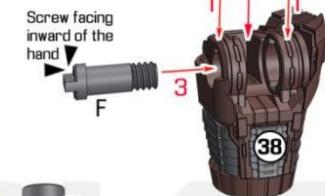
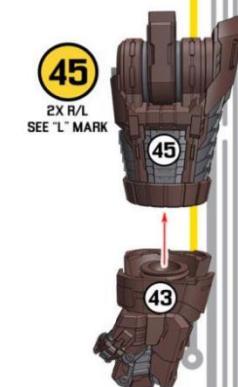
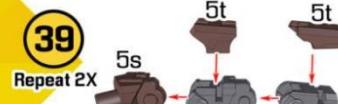




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