Pack 06

BUILD INSTRUCTIONS

STAGE 51: FITTING THE INNER FRONT WALL PANEL

STAGE 52: REAR ENTRANCE WALL AND ACCESSORIES

STAGE 53: FITTING CABLES TO THE BELL PUSHES AT THE REAR ENTRANCE

STAGE 54: FIRST SECTION OF THE LOWER DECK CEILING

STAGE 55: ROOF PANEL AND BELL CORD

STAGE 56: WIRING THE LIGHTING ON THE LOWER DECK

STAGE 57: STAIRCASE STRUCTURE AND CIRCUIT BOARD

STAGE 58: ASSEMBLING THE TOP THREE STEPS

STAGE 59: KICK PLATES AND STAIRWAY ASSEMBLY

STAGE 60: PLATFORM AREA AND REAR WALL
STAGE 51
FITTING THE INNER FRONT WALL PANEL

In this stage, the inner front wall and windows are supplied, together with handrails and a sidelight lens. The parts are assembled and fitted to the lower deck.

KEY TO PARTS SUPPLIED

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>51A</td>
<td>Inner front panel</td>
<td></td>
</tr>
<tr>
<td>51B</td>
<td>Hand rail (x2)</td>
<td></td>
</tr>
<tr>
<td>51C</td>
<td>Window panes (x2)</td>
<td></td>
</tr>
<tr>
<td>51D</td>
<td>Lens</td>
<td></td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm (x5)</td>
<td></td>
</tr>
<tr>
<td>JP</td>
<td>2.3 x 4mm (x10 black)</td>
<td></td>
</tr>
<tr>
<td>JP</td>
<td>2.3 x 4mm (x5 cream)</td>
<td></td>
</tr>
<tr>
<td>JP</td>
<td>2.3 x 4mm (x10 red)</td>
<td></td>
</tr>
</tbody>
</table>

Note that the JP screws are supplied in three different colours – make sure you fit them in the correct places, to blend with the parts that they are fixing.
Fit the lens 51D to the inside of the front wall 47A, ensuring that the convex side faces forwards towards the front of the bus and the locating notch (indicated by the red arrow) is correctly placed. Put aside until step 3 when the lens will be held securely in place by the inner front panel 51A.

Position the hand rails 51B against the inner front panel 51A, matching the screw holes as shown. Fix the front rails in place from the other side of the panel using four DP screws (inset).

Lay the inner front panel 51A flat and fit the two window panes 51C into the recesses around the windows, taking care not to get finger marks on them (inset below). Keeping the glass in place, locate the inner front panel 51A against the front wall 47A, ensuring the screw holes are aligned. Fix in place on the left-hand side with two cream JP screws and five red JP screws.

To ensure the lens 51D stays in the correct position, hold it in place with a piece of low-tak (masking) tape on the outside of the front wall.
4. Ensuring that the window panes are still in place, fix the right-hand side of the inner front panel 51A to the front wall 47A using two cream JP screws and four red JP screws. The insets, right, show the finished front wall.

5. Position the front wall assembled in step 4 against the front end of the lower deck assembly. The front wall should sit on the floor 42A, and the tabs on the front side walls 48B and 48A should fit into the recesses on the sides of the front wall (blue arrows). Fix the tabs in place on the right-hand side with two black JP screws (inset).
6 Fix the tabs on the left-hand front side wall 48A in place in the recesses in the front wall using two JP screws. The insets show the tabs fixed in place (top: right front; bottom: left front), with the JP screws circled in blue.

7 Use four JP screws to secure the inner panel 51A to the floor 42A. The inset below shows the screws in place.
Finished views
STAGE 52
REAR ENTRANCE WALL AND ACCESSORIES

Handrails, a used ticket box and the bell push surrounds are fitted to the rear wall of the passenger compartment. The wall is then almost ready to fit to the lower deck.

KEY TO PARTS SUPPLIED

52A  Rear entrance wall  AP  1.7 x 3mm (x3 black)
52B  Right-hand rail  AP  1.7 x 3mm (x6 silver)
52C  Left-hand rail
52D  Used tickets box
52E  Bell push surround (x2)

Note that the AP screws are supplied in two different colours, black and silver. Make sure that you fit them in the right places, as shown in the instructions.
1 Position the used ticket box 52D against the rear entrance wall 52A so that the screw holes are aligned. Fix in place with two black AP screws.

2 Fit the two bell push surrounds 52E into the large holes in the rear entrance wall 52A. These will be held in place when the inner skin of the wall is fitted. Note that on the inside of the wall panel, the large holes in the bell push surrounds fit over the raised screw sockets (inset below).
3 Identify the fixing points on the rear entrance wall 52A for the right hand rail 52B. Position the hand rail and fix in place with two silver AP screws.

Note that there are two fixing points on the handrail and the side of the entrance. At each fixing point, the top hole is for the screw and the bottom hole is for the locating peg.

4 Identify the fixing points for the left hand rail 52C: there are two screw sockets next to the bell push and one to the right of the used ticket box. Along the horizontal part of the hand rail there are two small brackets which push-fit into corresponding holes (circled in blue). **NOTE:** These are very delicate and extreme care is needed when inserting. Fit these, as indicated by the dotted lines. Then check that the screw holes on part 52C are aligned with the sockets on part 52A and fix in place with three silver AP screws.
Finished views
STAGE 53
FITTING CABLES TO THE BELL
PUSHES AT THE REAR ENTRANCE

We add some finishing touches to the rear entrance wall and then fit the wall to the end of the lower deck passenger compartment.

KEY TO PARTS SUPPLIED

<table>
<thead>
<tr>
<th>Code</th>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>53A</td>
<td>Right end wall</td>
<td></td>
</tr>
<tr>
<td>53B</td>
<td>Left end wall</td>
<td></td>
</tr>
<tr>
<td>53C</td>
<td>Window pane</td>
<td></td>
</tr>
<tr>
<td>53D</td>
<td>Cable K</td>
<td></td>
</tr>
<tr>
<td>53E</td>
<td>Tape strips (x4)</td>
<td></td>
</tr>
<tr>
<td>MP</td>
<td>Cable K</td>
<td>1.7 x 3mm (x8 red)</td>
</tr>
<tr>
<td>MP</td>
<td>Cable K</td>
<td>1.7 x 3mm (x5 grey)</td>
</tr>
<tr>
<td>MP</td>
<td>Cable K</td>
<td>1.7 x 3mm (x6 cream)</td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm</td>
<td>(x3 cream)</td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm</td>
<td>(x3 red)</td>
</tr>
<tr>
<td>JP</td>
<td>2.3 x 4mm</td>
<td>(x5)</td>
</tr>
</tbody>
</table>

AGORAMODELS ROUTEMASTER BUS
1 Arrange cable K (53D) around the inside of the doorway panel 52A in the orientation shown. Start by fitting the bell push in place near the top of the entrance, as indicated by the red dotted line. Arrange the cable around the doorway as shown, ending by fitting the second bell push, as indicated by the light blue dotted line.

2 Check that the cable 53D runs across the bottom of the panel 9mm from the top of the door sill (indicated in light blue). There should be a little slack in the cable at the side of the panel as indicated by the red arrows. Tape the cable in place using four strips of tape 53E. You may find that the lengths of red and black cable at the end (circled in red) are uneven. This is not a problem.

3 Position the window pane 53C in the opening in the rear entrance wall 52A. Position the left inner rear wall 53B as indicated, so that the window pane is held in place. Fix part 53B in place using MP screws: two cream at the top, four grey in the middle and two red at the bottom. Note that the cable K (53D) does not fit between these two panels at the side (see step 4). Do not overtighten the MP screws.

Remember that when we refer to left or right, it is the left or right side when facing in the direction of travel.
4 Position the right inner rear panel 53A on the other side of the rear entrance wall 53A. Fix in place with MP screws as indicated: three cream ones at the top, two red ones in the middle and two red ones at the bottom. Do not overtighten the screws.

5 To fix the inner bell pushes firmly in place, add further DP screws as indicated: two red DP screws on the right inner panel; two cream DP screws on the left inner panel. The inset below shows all the screws in place.
6 Fit the assembled rear entrance wall 52A in place at the rear of the passenger compartment. At the same time, thread cable K (53D) through the hole in part 49C near the bench seat. The inset above shows the view from the outside.

7 Working from the outside, fix the edge of the rear entrance wall 52A in place using two JP screws. The inset (right) shows the wall in place with the JP screws circled in light blue.
On the left-hand side of the rear entrance wall, make sure that the cable is on the outside of part 49A (the left rear side wall). Arrange the cable 53D around the screw sockets as shown – in front of the larger sockets circled in light blue and behind the smaller socket circled in dark blue. Use two JP screws to fix the rear entrance wall in place (inset, above).

The rear entrance wall in place, viewed from outside (above) and inside (right). The wall and passenger compartment will be further secured in place in a later stage.
STAGE 54
FIRST SECTION OF THE LOWER DECK CEILING

The first part of the lower deck ceiling (for the rear of the bus) is supplied, together with handrails and lights. Follow the instructions to assemble the parts.

KEY TO PARTS SUPPLIED

54A  Rear lower deck ceiling panel
54B  Ceiling lamps (x3)
54C  Left ceiling handrail
54D  Right ceiling handrail
54E  Handle
54F  Clip
54G  Tape strips (x6)
DP   1.7 x 4mm (x5)

In the image above, the ceiling is viewed from below (as you would see it from inside the lower deck). We have labelled the edges for clarity.
1. Take the rear lower deck ceiling panel 54A and identify the hole near the back left-hand corner where the handle 54E fits. Push the handle into the hole. From the other side (top) of the panel, fix the handle in place by attaching the clip 54F around the ‘neck’ of the handle (above right). The inset right shows the clip in place.

2. Take two of the ceiling lamps 54B. Working from above, fit them into the lamp holes on the left-hand side of the ceiling 54A. Fix each lamp in place with two adhesive strips 54G. The inset shows the lamps fixed in place.
3 In the same way, fit the third ceiling lamp 54B into the lamp hole on the right-hand side of the ceiling panel, fixing it in place with two strips of adhesive tape 54G. The inset shows the lamp fixed in place.

4 Position the ceiling rails 54C and 54D on the underside of the ceiling panel 54A. Working from the other side of the ceiling, fix each of the rails in place using two DP screws.
Finished views

The rear section of the ceiling of the lower deck with handle, lamps and handrails in place.
STAGE 55
ROOF PANEL AND BELL CORD

Cord guides and ceiling lamps are fitted to the ceiling panels of the lower deck. The panels are connected and the bell cord is fitted.

1. Take three cord guides 55F and position them on the ribs in the ceiling 55A as indicated (right). Ensure they are in the correct orientation, so that they sit flush with the ceiling panel. Fix each cord guide in place with two DP screws. The inset below shows the guides in place.
2 Take the two light deflectors 55D and fit them to the lower side of the ceiling panel 55A as indicated. Fix each one in place from the upper side of the ceiling panel with two LP screws, as shown in the insets, above and right.

3 Position four sockets 55B in the recesses in the underside of the ceiling panel 55A. Fix in place from the upper side of the panel with four FP screws (inset, above right).

4 Along each side of the ceiling panel 55A, fit three lamps 55C. Fit the lamps from the upper side of the roof panel and hold each one in place with two pieces of adhesive tape 55K. The inset below right shows one of the lamps in place.
5 Take the rear roof panel 54A supplied with the previous stage and fit two cord guides to it. Fix them in place with two DP screws. The inset below shows the cord guides in place.

6 Turn over the rear roof panel 54A and identify the fixing point for the cable J-J1 (55H) on the upper side of the ceiling panel. Fix in place with an AP screw. Be careful to ensure that the contacts remain open when tightening the screw.

7 Arrange the cable J-J1 (55H) across the top of the rear ceiling panel 54A as indicated. Fix in place with strip of adhesive tape 55K.

8 Take the two ceiling panels 54A and 55A. Check how they fit together with the tabs on part 55A overlapping the front edge of part 54A. Fix together with six JP screws.
9 Thread one end of the cord 55G through the hole at one end of the control slider 55I. Tie in place with a double knot. Fix one end of the spring 55J to the other end of the control slider, making sure you fit the more open end of the spring, as shown in the inset below. Identify the fixing point for the control slider on the upper side of the rear roof section 54A. Fix the end of the spring 55J in place using one DP screw. Fix part 55I in place using two NP screws. Thread the free end of the cord through the hole in the ceiling as indicated by the red arrow.

10 On the underside of the ceiling panels 55A and 54A, thread the cord 55G through the first cord guide 55F, as shown in the inset above right. Continue threading the cord through the four remaining cord guides along the length of the ceiling. Hold the cord in place temporarily with a single knot (right).
Fit the four upright poles 55E to the sockets on the backs of the seats 44H, 44B, 45H and 45B. These are push fit connections, and will be secured when the ceiling is fitted to the lower deck at a later stage.

The ceiling of the lower deck passenger compartment, viewed from above (top) and below (right).
STAGE 56

WIRING THE LIGHTING ON THE LOWER DECK

In this stage, we supply the wiring, complete with LEDs, for the lower deck lighting, along with the battery box. Follow the assembly instructions carefully.
1. Fit the battery box switch 56B to the recess in the rear platform 56A. Fix the switch in place with two UM screws. The battery box itself will be fitted at a later stage, so store carefully to avoid strain on the cables.

2. Arrange the cable 56C around the upper side of the roof of the lower deck. Starting by fitting the LED at the end of the cable, circled in red. After completing step 3, continue to fit the LEDs into the lamps 54B x 1 and 55C x 3 down the left-hand side of the ceiling, as indicated here.

3. When the LED fitting at the back left of the ceiling is properly seated, bend the cable contacts down so that the cable is parallel to the surface of the ceiling (see inset, right). This ensures there is enough cable to fit the next LED.
4 After fitting the LEDs on the left-hand side as described in steps 2 and 3, continue working from front to back down the right-hand side, as indicated in the diagram.

5 Working down the left-hand side of the ceiling, bend the next two contacts on cable 56C down as indicated (see inset below).

6 Bend the cable contacts at the next two lamps along the left-hand side of the front ceiling panel 55A, as shown.
Working back down the right-hand side of the front ceiling panel, repeat the process, bending the contact wires as shown.

Finish the process by bending the contact wires at the last two lamps on the right-hand side.

Finally, fix the cable 56C in place with adhesive tape (56D, circled in red). Position two on the rear ceiling panel (left) and three on the front ceiling panel (right).
The rear platform, with the battery box and switch in place. The battery box will be fixed in place at a later stage.

The lower deck ceiling with the LEDs and wiring in place.
STAGE 57
STAIRCASE STRUCTURE AND CIRCUIT BOARD

A railing, handrail and circuit board are fitted to the staircase structure, which comes complete with Route information for the No.11 bus.

KEY TO PARTS SUPPLIED

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>57A</td>
<td>Staircase wall</td>
</tr>
<tr>
<td>57B</td>
<td>Handrail</td>
</tr>
<tr>
<td>57C</td>
<td>Railing</td>
</tr>
<tr>
<td>57D</td>
<td>Staircase structure</td>
</tr>
<tr>
<td>57E</td>
<td>Circuit board</td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm (x3 black)</td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm (x4 silver)</td>
</tr>
<tr>
<td>NP</td>
<td>1.7 x 4 x 5mm (x5)</td>
</tr>
</tbody>
</table>
1. Fit the ends of the railing 57C into the sockets in the staircase structure 57D. Fix in place from the back of the structure using two black DP screws (see inset).

2. Fit the circuit board 57E into the recess beneath the storage area of the staircase structure 57D. **NOTE:** There are four holes in the circuit board that fit over the raised sockets on part 57E. Fix in place with four NP screws.
3 Position the handrail 57B on the staircase wall 57A, making sure that the pegs on the handrail are located in the sockets in the wall, as indicated by the dotted lines. Fix in place with three silver DP screws.
STAGE 58
ASSEMBLING THE TOP THREE STEPS

Parts are supplied for the remaining three steps, together with side panels, which will be fitted later.

KEY TO PARTS SUPPLIED

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>58A</td>
<td>Stair side panel</td>
</tr>
<tr>
<td>58B</td>
<td>Stair section</td>
</tr>
<tr>
<td>58C</td>
<td>Tread</td>
</tr>
<tr>
<td>58D</td>
<td>Stair section</td>
</tr>
<tr>
<td>58E</td>
<td>Tread</td>
</tr>
<tr>
<td>58F</td>
<td>Stair section</td>
</tr>
<tr>
<td>58G</td>
<td>Tread</td>
</tr>
<tr>
<td>58H</td>
<td>Stair side panel</td>
</tr>
<tr>
<td>DP</td>
<td>1.7 x 4mm (x7)</td>
</tr>
</tbody>
</table>
1. Fit the tread 58C on the top of the stair section 58B. Fix in place with two DP screws.

2. Fit the stair tread 58E on top of stair section 58D. Fix in place with two DP screws.
3. Fit tread 58G to the top of stair section 58F. Fix in place with two DP screws.
The top three steps, viewed from the exposed side (left) and from the inside (below left). In a future stage, these steps will be fitted above the steps that you already have – the inset below shows the assembly from stage 4. The stair side panels will be needed when the staircase is assembled.
STAGE 59

KICK PLATES AND STAIRWAY ASSEMBLY

Kick plates are fitted to the front of the steps assembled in the previous stage. We then go on to assemble all of the steps, connecting those from stage 58 to the steps from stage 4.

KEY TO PARTS SUPPLIED

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>59A</td>
<td>Kick plate (x4)</td>
<td></td>
</tr>
<tr>
<td>59B</td>
<td>Pole</td>
<td></td>
</tr>
<tr>
<td>59C</td>
<td>Box</td>
<td></td>
</tr>
<tr>
<td>59D</td>
<td>Box lid</td>
<td></td>
</tr>
<tr>
<td>59E</td>
<td>Hinge (x2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BP</td>
<td>1.5 x 3mm (x26 silver)</td>
</tr>
<tr>
<td></td>
<td>AP</td>
<td>1.7 x 3mm (x5)</td>
</tr>
<tr>
<td></td>
<td>JP</td>
<td>2.3 x 4mm (x14)</td>
</tr>
<tr>
<td></td>
<td>NP</td>
<td>1.7 x 4 x 5mm (x2)</td>
</tr>
<tr>
<td></td>
<td>DP</td>
<td>1.7 x 4mm (x19)</td>
</tr>
</tbody>
</table>
1 Position a kick plate 59A against the riser of the first stair section 58B, so that the screwholes are aligned. Fix in place with six silver BP screws. Repeat to fix a kick plate to the riser of each of the next two steps 58D and 58F (see insets below). Note that the rounded corners of the kick plates are at the top.

2 Fit a kick plate 59A to the stair section 58H supplied with the previous stage, fixing it in place with six silver BP screws.
3. Align the tabs on part 58H with the sockets on the inside of part 58F as indicated by the dotted lines. Fix in place with two DP screws.

4. In a similar way, align the tabs on stair section 58F with the sockets on stair section 58D, as indicated by the dotted lines. Fix in place with two DP screws.

5. Align the tabs on stair section 58D with the sockets on stair section 58B and fix in place with two DP screws.
6 Take the stair side section 58A supplied with the previous stage. Position it against the sides of the three steps that were assembled in steps 3, 4 and 5. Fix the side section 58A in place with two DP screws going into the screw sockets on the ends of each of the stair sections 58F, 58D and 58B.

7 Take the stair section and platform assembly from stage 4. Align the tabs on the lower edge of part 58B with the sockets on the top step (3G) of the earlier assembly, as indicated by the dotted lines. Fix in place with two DP screws.

8 Take the staircase wall 57A and align it with the inner edge of the stair assembly, so that 57A is positioned vertically against the inside of the stair assembly 4A. Fix in place with two DP screws.
STAGE 60
PLATFORM AREA AND REAR WALL

We continue work on the stairs and platform area, and assemble the rear wall of the bus.

KEY TO PARTS SUPPLIED

60A Platform rear wall
60B Back of used tickets box
60C Hand rail
60D Hand rail

DP 1.7 x 4mm (x3 black)
DP 1.7 x 4mm (x12 silver)

In this stage, we continue work on the stairs, started in the previous stage. The parts and screws for steps 1–6 were supplied with stage 59.
1. Take the staircase structure 57D and align the screw sockets on the lower edge with the screw holes in the platform 4A, as indicated by the dotted lines. Fix in place with two JP screws.

2. Take the stair/platform assembly from the previous step and the platform assembly from stage 56. Position the platform 56A on the underside of the rear platform 4A so that the screw holes and sockets are aligned. **NOTE:** The two sockets circled in light blue on the underside of part 4A are part of the staircase wall 57A. Fix the platforms together with eight JP screws.

3. Take the box 59C and the two hinges 59E. Align the holes in the smaller flanges on the hinges with the small raised sockets in the box. Fix each hinge in place with an AP screw.

**The battery box 56B is not firmly fixed at this stage. Take care that the wires and switch do not come adrift. It may help to hold it in place temporarily with a little masking tape.**
4 Take the pole 59B, supplied with the previous stage, and fit the end into the recess in part 4A. Fix in place from the underside, circled in red, with an NP screw.

5 Fit the box 59C against the side of the staircase structure 57D. Fix in place with two JP screws.

It may help to use pliers to hold the pole in place as you tighten the screw. If you do this, be sure to protect the pole with paper or cloth so that the jaws of the pliers don’t damage the surface.
7. Fit the back of the used ticket box 60B into the ticket box recess on the back of the rear wall 60A. Fix in place with two black DP screws.

8. Take the handrail 60C and fit it vertically down the edge of the rear wall 60A. Fix each end in place with two silver DP screws.

9. Take the hand rail 60D and align the screw sockets on the brackets with the holes in the back wall 60A. Fix each of the three brackets in place with two silver DP screws.
The pole on the platform is only fixed at the bottom (see step 6). The top end will be fixed when the ceiling of the platform area is in place. To prevent accidental damage, you may prefer to store the pole and the NP screw until you are ready to fix it to the ceiling.