A New Meccano Model

Trolley Bus

THE fine model of a trolley bus that is the subject for this month's new model can be built with a No. 7 Outfit. An E06 or E020 Electric Motor is fitted inside the model, but it is not driven by a system of overhead wires like the actual bus. Current is supplied by a length of light flex connected to a transformer or accumulator, and attached to the terminals of the Motor. The flex should be passed through the rear window of the model so that it does not foul the driving wheels.

The chassis is formed of two compound angle girders, each consisting of two 12½″ Angle Girders overlapped 12 holes. These girders are connected at each end by a 3½″ × ½″ Double Angle Strip, and a 5½″ × 2½″ Flanged Plate 1 is bolted to one of these Double Angle Strips to form the front of the driving compartment. The off side of the lower saloon seen in Fig. 2 consists of a 2½″ × 1½″ Flexible Plate, two 5½″ × 1½″ Flexible Plates, half of a Hinged Flat Plate, a 5½″ × 2½″ Flexible Plate, and a 2½″ × 2½″ Flexible Plate. The 5½″ × 1½″ Flexible Plates are arranged in a horizontal position over the front and rear wheels of the model. The side is bolted to four vertical 5½″ Strips, which are attached to a compound strip 2 consisting of two 12½″ Strips overlapped 13 holes. The upper ends of the 5½″ Strips are connected by a compound girder 3, formed by two 12½″ Angle Girders overlapped 15 holes.

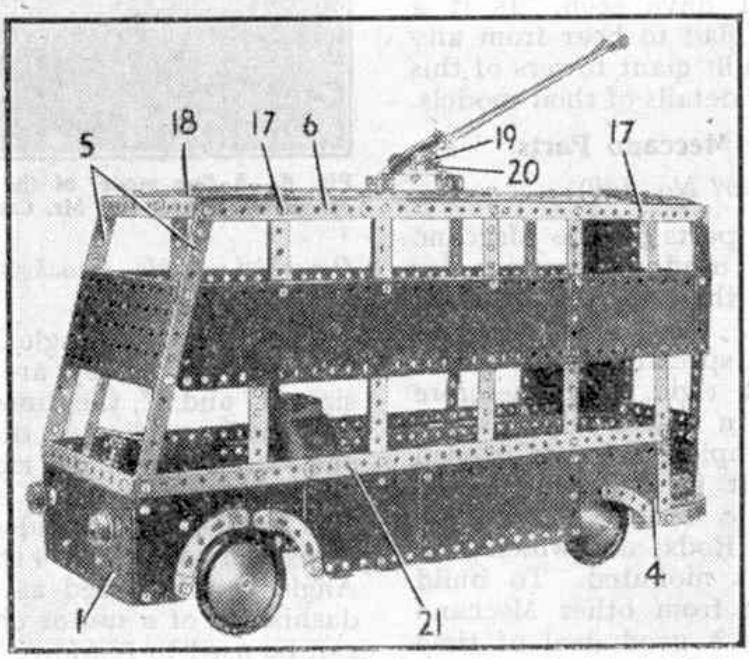

Fig. 1. Outfit No. 7 contains all the parts required to build this realistic Trolley Bus.

The near side of the model, seen in Fig. 1, is built up in a similar manner to the opposite side, but the 2½″ × 2½″ Flexible Plate at the rear is omitted to allow for the platform. The 5½″ × 1½″ Flexible Plate over the rear wheel is extended downward by a 2½″ × 1½″ Flexible Plate 4, and the Plates are attached to a compound strip 21.

Each side of the upper saloon is formed by a 12½″ Strip Plate and a 5½″ × 2½″ Flexible Plate. These are bolted to the girders 3, and connected at the front by a 5½″ × 2½″ Flanged Plate. The Flanged Plate is attached to 5½″ Strips bolted at a slight angle to the strips 2 and 21. The 5½″ Strips are extended upward by 2½″ Strips 5, which support a compound strip 6 on each side of the model. The strips 6 are made from 12½″ and 5½″ Strips overlapped two holes, and their rear ends are fixed to 1 11/16″ radius Curved Plates forming the upper part of the curved panelling at the rear. The Curved Plates are attached to a 5½″ × 2½″ and a 2½″ × 2½″ Flexible Plate. These Plates are curved slightly and bolted to the girders 3, and are strengthened by two Formed Slotted Strips and a 3½″ Strip. The panelling at the rear of the lower saloon consists of two 2½″ × 2½″ Flexible Plates 7, and a compound plate 8, made from a 2½″ × 2½″ and a 2½″ × 1½″ Flexible Plate bolted together.

The front axle consists of a strip 9 formed by a 3½″ × 2½″ Strip overlapped three holes, and attached to the chassis by Angle Brackets. A ⅜″ Bolt is passed through a 1½″ Strip 10 and a Double Bracket 11, and is held in the end hole of the strip 9 by lock-nuts. The Road Wheels are fixed on 1½″ Rods mounted in the Double Brackets 11, and the free ends of the Strips 10 are connected by a strip 12 formed by a 3½″ and a 2½″ Strip overlapped three holes. A 2½″ Strip 13 is fastened to the strip 12, and is connected by lock-nuts and a 2½″ Strip to