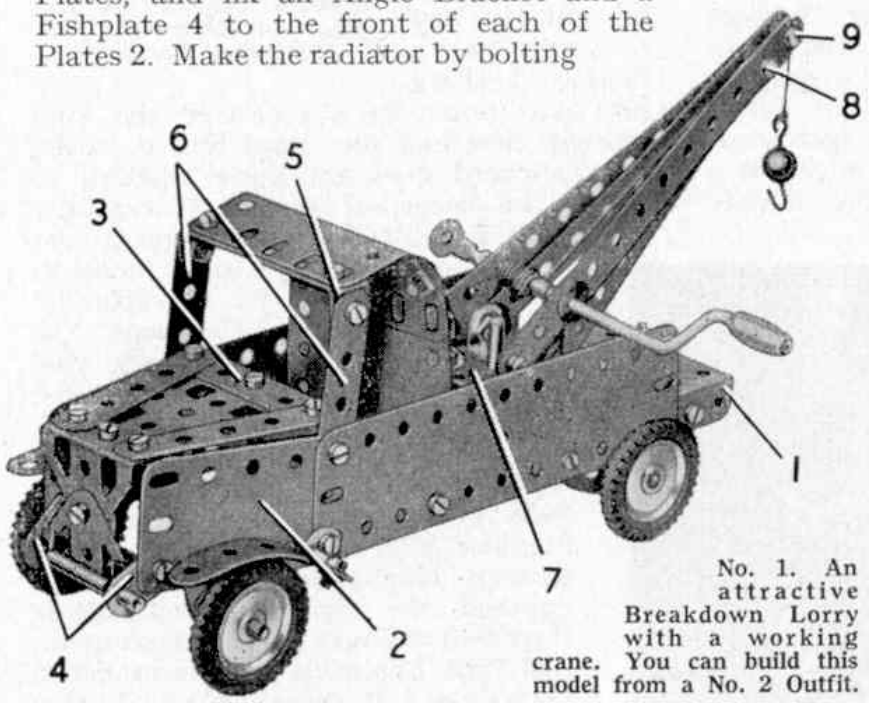
Easy Model-Building

Spanner's Special Section for Juniors

A BREAKDOWN Lorry built from Outfit No. 2 and a Cargo Ship designed to make use of the parts in Outfit No. 4, are the two new models that I have selected for you this month.

You can start making the Breakdown Lorry by bolting a $5\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plate to each side of a $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate 1. The Flexible Plates form the sides of the cab and the body, and they should be lengthened towards the front by $2\frac{1}{2}'' \times 1\frac{1}{2}''$ Flexible Plates 2 to make the sides of the bonnet. Now bolt a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 3 between the Flexible Plates, and fix an Angle Bracket and a Fishplate 4 to the front of each of the Plates 2. Make the radiator by bolting together two Trunnions, then fix the lower one of these to the Angle Brackets already mentioned. Pass a 2" Rod through the Fishplates 4 and use Spring Clips to hold it in place.



No. 1. An attractive Breakdown Lorry with a working crane. You can build this model from a No. 2 Outfit.

To make the top of the bonnet bolt two $2\frac{1}{2}''$ Strips between the Double Angle Strip 3 and the radiator, and fix one Flat Trunnion to the Double Angle Strip and another to the radiator. You should make the back and roof of the cab by bolting together a $2\frac{1}{2}'' \times 2\frac{1}{2}''$ Flexible Plate and a U-section Curved Plate. Now open the U-section Curved Plate out slightly and fix to it a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 5. Bolt the Double Angle Strip to two $2\frac{1}{2}''$ Strips 6 fixed to the sides of the cab.

Next the wheels can be fitted to the model. These are 1" Pulleys with Motor Tyres and the axles are $3\frac{1}{2}''$ Rods. The rear axle is supported in $2\frac{1}{2}''$ Stepped Curved Strips bolted to Flanged Plate 1, and the front axle is mounted in Fishplates fixed to the Flexible Plates 2. Space the front wheels from the Fishplates by Washers. The front mudguards are slightly curved $2\frac{1}{2}''$ Strips, and they are bolted to Angle Brackets.

To make the crane bolt four Angle Brackets to a Bush Wheel 7. Fix a $5\frac{1}{2}''$ Strip to each Angle Bracket and connect the Strips together by a $\frac{3}{8}''$ Bolt 8, using a nut and two Washers to space apart the Strips on each side. Pass a second $\frac{3}{8}''$ Bolt 9 through one Strip and fix it in the one on the opposite side by two nuts.

The crane is mounted on the lorry so that it can be turned from side to side. Fix a 2" Rod in the Bush Wheel 7 and pass this Rod through Flanged Plate 1, and through one lug of a $\frac{1}{2}''$ Reversed Angle Bracket, which you should bolt underneath the Flanged Plate. Use a Spring Clip to hold the Rod in place. Now take a Crank Handle and pass it through two of the $5\frac{1}{2}''$ Strips, at the same time screw a Cord Anchoring Spring on its shaft between the two Strips. Hold the Crank Handle in place with a Spring Clip and a Rod and Strip Connector. Tie a short piece of Cord to the Cord Anchoring Spring, pass it over the Bolt 9 and attach to its free end a small Loaded Hook.

Parts required to build the Breakdown Lorry: 4 of No. 2; 6 of No. 5; 4 of No. 10; 8 of No. 12; 2 of No. 16; 1 of No. 17; 1 of No. 19g; 4 of No. 22; 1 of No. 24; 4 of No. 35; 44 of No. 37a; 40 of No. 37b; 6 of No. 38; 1 of No. 40; 2 of No. 48a; 1 of No. 52; 1 of 57c; 2 of No. 90a; 2 of No. 111c; 1 of No. 125; 2 of No. 126; 2 of No. 126a; 4 of No. 142c; 1 of No. 176; 2 of No. 188; 2 of No. 189; 1 of No. 190; 1 of No. 199; 1 of No. 212.

The Cargo Ship is shown in Figs. 2 and 3. Each side of the hull, starting from the