



OTHER SYSTEMS NEWSLETTER

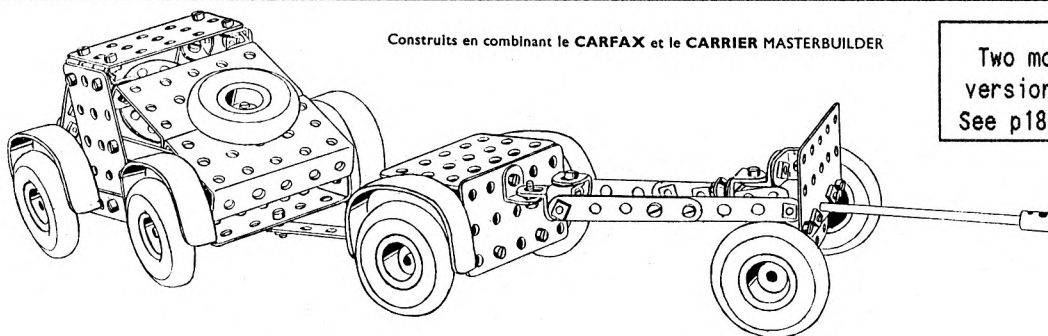
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Laverstock
Salisbury.
SP1 1PY.
England.

OSN 8 APRIL 1993

EDITORIAL Several readers have enquired about Frank Beadle's Part 5 of MCS. My earlier forecasts of the 'any day now' having proved a little optimistic, I will simply say that it is complete except for one batch of material which Frank hopes will arrive before you read this. Something to look forward to at any rate.

The introduction of the Extra MCS Sheets has been successful in reducing the space needed for illustrations, and this has allowed more ground to be covered in each Issue. The backlog of unused material that had built up has decreased considerably but a few items have still had to be held over until OSN 9. Please don't let that deter potential contributors, a steady stream of information is needed to fill each Newsletter. And on that point I would like to record a thank you to all those who regularly send items, your support is absolutely essential and is much appreciated.

New subscribers often ask about MCS, what it is and where to get it; what and how to contribute to OSN, and how it relates to MCS; and so on. I now therefore include an A4 side of explanations with the first Newsletter I send them; if any existing readers would like a copy please let me know.

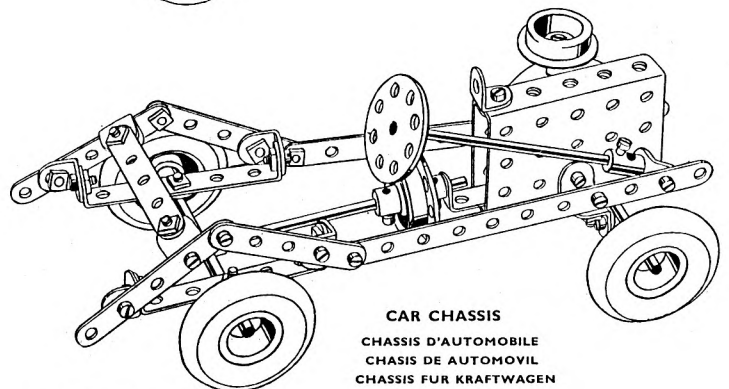
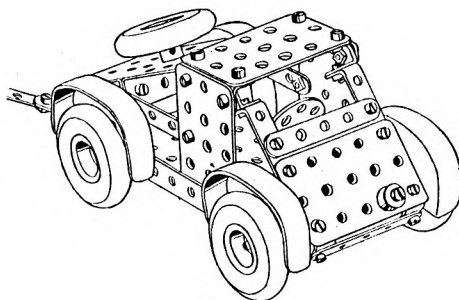


Construits en combinant le CARFAX et le CARRIER MASTERBUILDER

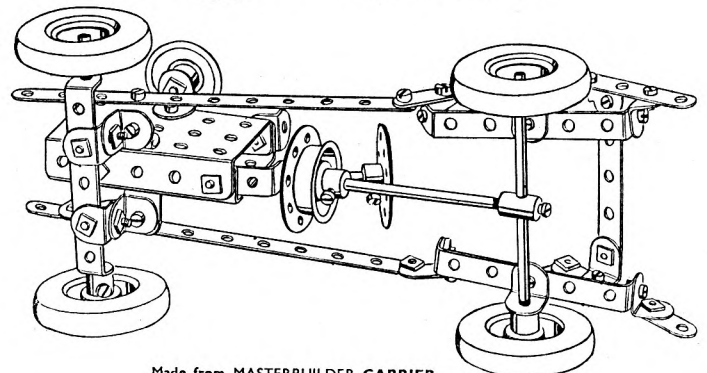
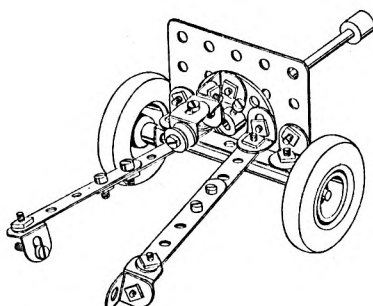
Two models from a later version of MASTERBUILDER. See p184 for more details.

Scale: x.7

TRACTOR, GUN and LIMBER
TRACTEUR, CANON ET CAISSON
TRACTOR, CAÑON Y ARMON DE ARTILLERIA
ZUGWAGEN, KANONE UND PROTZE



CAR CHASSIS
CHASSIS D'AUTOMOBILE
CHASSIS DE AUTOMOVIL
CHASSIS FUR KRAFTWAGEN



Made from MASTERBUILDER CARRIER

THIS NEWSLETTER IS SUPPLIED ON THE UNDERSTANDING THAT IT IS FOR THE PERSONAL USE OF THE RECIPIENT FOR RESEARCH PURPOSES ONLY

STOKYS AUTO SETS. From Harry Mariën some photos of two new STOKYS Auto Sets, the #1 and 1a, and the number in the top right hand corner of the 1a box lid shown below, 1·1a·2, seems to indicate that there is a #2 Set as well. Just when these Sets were introduced is not certain but they are currently available.

The #1 box contains two trays; all the parts seem to be standard STOKYS but their range indicates that the models cover a wide span of vehicles. There is for example a Hook, and one of those Winch Brackets, A41, and 2 of the Flanged Discs K01, which with 4mm Balls between them make a ball bearing. So the makings of a crane and in fact a model of a Mobile Crane is shown in the background of what looks as if it is the cover of the manual in another photo. Also visible are 4 50mm Flanged Wheels, R23, and 2 of the smaller R22, so a loco? Two 1½"ish diameter Gear Wheels can be seen but there are no signs of their purpose. And no signs of a Driver, with STOKYS on his helmet, as shown in the cockpit of the Racing Car. The Wheels in the set look as if they are red R06 35mm Pulleys fitted with Tyres, but whether with the standard R08 Tyres can't be seen. There are 6 of them.

The #1a box again has 2 trays and they look to be the same size and to have the same inner partitions as those of the #1. And again 6 Wheels but both the Hubs and the Tyres look different to those in the #1, (below, right); they look like those used on the Racing Car shown on the lid. The hubs have 6 holes around the boss and what may be a wide rim to take a wide tyre; the diameter of which looks if anything slightly smaller than the one in the #1 Set. They're perhaps #R62 (Wheel complete with Tyre), one of the new STOKYS parts mentioned in OSN 7, it's 47mm in diameter. Various gears can be seen including Contrates and a Worm, and there are 4 Couplings and 3 Cranks, and one of the H05 3-Spoked Wheels that could be used as a steering wheel. So some mechanical detail can be expected in the models. There is nothing to suggest that any of them are motorised, and indeed the current STOKYS sideplate type motors would hardly be suitable for use in relatively small models.

Harry also sent photos of a current STOKYS #4 Set and as far as can be seen the contents remain the same as they were; the covers of the manuals, 0-2 and 3-4, are almost unchanged from early 1970s ones - the model of the Excavator with the green roof is the same but the 30mm band along the bottom has changed from blue to yellow.



Above: the label on the box in the set for small parts.



STAHLBAU TECHNIK. Courtesy of Geoff Wright I have recently been able to examine two No.1 Sets and some amplification of the data in MCS is possible. The sets are very similar to one another but with some minor differences such as the colour of the box and the reference numbers on the lids. The latter contain elements that could be dates with EVP 7,55 on both, and Pn 598/73 on one and Pn 13/1972 on the other. There are no other positive indications of age although the parts are packed in a plastic tray with moulded recesses for the various parts, and the handle of the Screwdriver is also made of plastic. Neither set had a manual and neither was complete, and both contained some parts which from the Contents given in MCS should not have been in a Set 1.

The spacing of the holes is 12.5mm and the Strips are 12mm wide with the ends near fully radiused. All the Strips, DAS and Brackets are nickel plated. Except for one 5x3h Plate (#12) which is also nickelled, all the Plates, Flat Girders and Girder Brackets (#23) have a 'crackle' finish, some in light grey and others in pale green. Some of these parts do not look exactly as illustrated in MCS - #13 and 14 are fully perforated, #23 has 2 rows of holes in the wider flange, and the elongated holes shown in #15 and 25 are replaced by large circular holes of 5.7mm diameter.

#27, 30 and 31 are painted a bright redish orange, including the 11.2mm dia, double-tapped bosses. The illustration of #27 in MCS is not very clear, it is a MÄRKLIN type Flanged Wheel but with 12 holes in its face, 2 on each of 6 equispaced radii, at 12.5 and 25mm from the centre. #31 is 22mm dia and not the 26 shown in MCS.

The Axles have a black metallic finish with square ends; all those in the Sets, 55, 80 and 110mm long, are solid and not what look like the hollow rivet type shown in MCS. Two different Tyres were in the Sets, #28/2 in one and #28/3 in the other; the latter would not fit into the appropriate space in the box so they may not have been from the original set. Both types have some letters/figures moulded into one face but they are difficult to read. Possibly HPS, with opposite on one, 10x45x20, and different combinations of numbers on others.

Other points: • The Hook is flat and is painted black. • The Screwdriver has a red plastic handle with 0.6 VOLTUS and Made in GDR moulded into it. • The thread used is M4. The Nuts and Bolts are bare steel except that some of the Nuts have a black metallic finish. There were 3 sizes of Bolts, all cheesehead: 6, 8 and 15mm u/h. • There were no gears in the Sets of course but from the hole spacing and the number of teeth given in MCS, the Module is 1.25 thus a DP of about 20.

Apart from the orange parts, the colours given above differ from those shown in a Manual similar to that on which the MCS entry is based; details of the manual colours are given in the MCS Amendments below. This Manual also gives the name and address of the Manufacturer, which as noted below is the same as METALLBAUTECHNIK.

Some of the parts which differ from those in MCS, or are unclear there, are shown below; also the label on the lid x $\frac{1}{2}$.

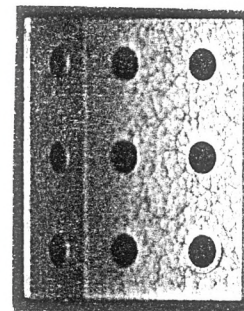
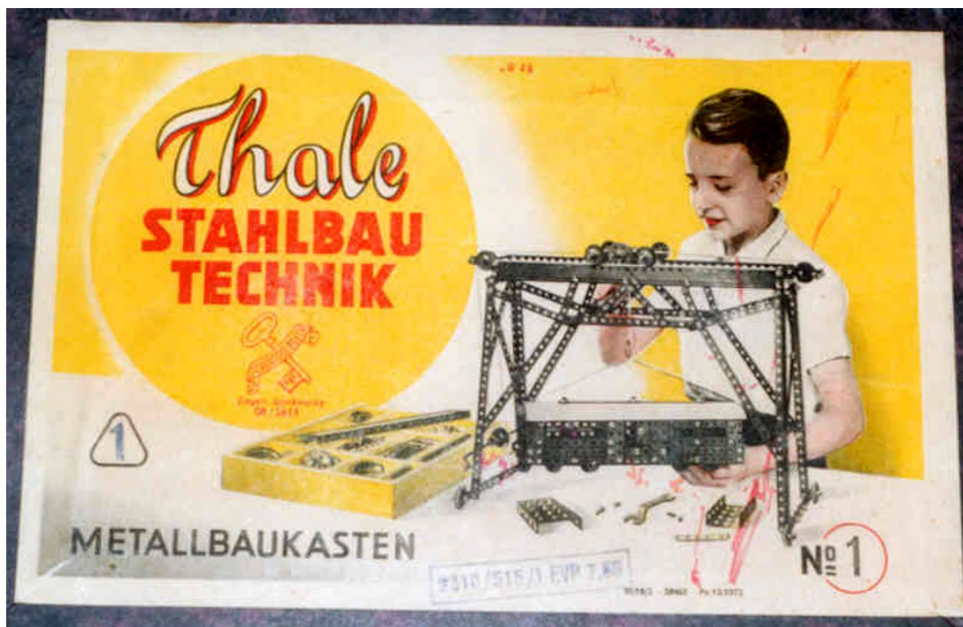
AMENDMENTS TO MCS (as necessary, depending on version)

HOLE DIAMETER: 4.2mm. **HOLE SPACING:** 12.5mm. **COLOUR:** Nickel plated Strips and Brackets, Orange circular parts, Plates have light grey or pale green crackle finish. The colours shown in a Manual differ with the Strips etc black, and the Plates green and blue. **MANUFACTURER:** THALER BLECHWARENFABRIK KRAUSE & CO, THALE/HARZ. (East) Germany.

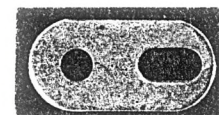
COMMENTS: Replace by: Krause & Co. also made METALLBAUKASTEN.

AMENDMENTS TO INDEX IN OSN 6

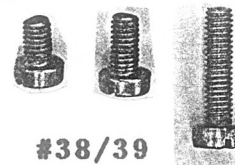
THREAD: M4. **SPCE:** 12.5. **dST:** 4.2. **DAXL:** 3.96.



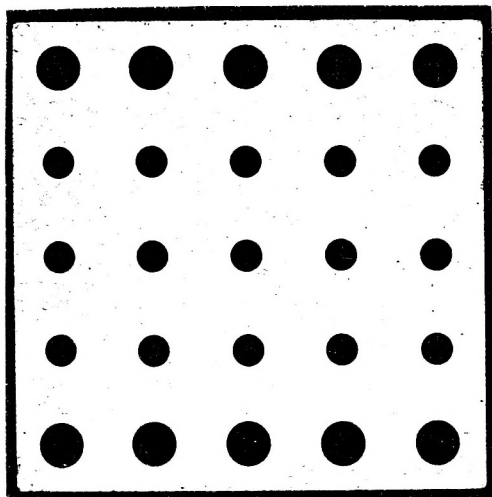
#23



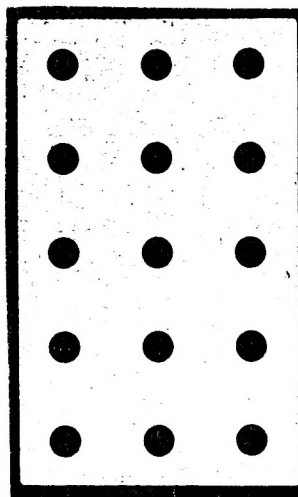
#1



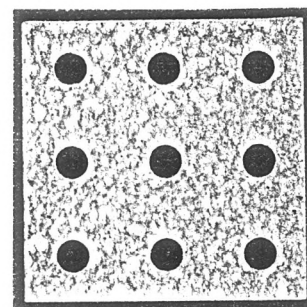
#38/39



#15



#13



#12

JUNEERO - NOTES ON. To start with, a run through the ads that have appeared in the Meccano Magazine (MM) and in a few issues of the Model Engineer (ME) that I have come across. The first was in the MM for 11/39 and it's headed 'BOYS! Here's a grand new hobby'; if that means that JUNEERO had just been marketed then the start dates in MCS of 1937 (NZ) and 1935 (FB) are incorrect, but perhaps it was just that it was the first time that JUNEERO had been advertised in the MM. In one of the postwar ME ads a Patent No 441157/34 is mentioned and the '34' is thought to be the year the Patent was issued. As an aside I can remember that around April of 1940 one of the windows of a large toyshop was full of a display of JUNEERO and this might have been consistent with its recent introduction, but alternatively toys were starting to be in short supply and perhaps prominence was given to JUNEERO because it was available. In one of the 1941 MM ads it is stated that no PT (Purchase Tax, a form of sales tax introduced in the UK soon after the beginning of WW2) was payable on JUNEERO, and this probably meant that it was not classified as a toy and therefore, again possibly, it went on being produced after materials for toys were no longer easily available.

Back to the ad, two sets were on sale, No 1 at 12/6 and No 2 at 25/-; no accessories were mentioned but one of the models illustrated had wheels and they look like PN 143 (in MCS). Design Sheets were available, price 1d each. The final point of interest is that the address is 25, White Street, Moorfields, London E.C.2, and not the (FB) MCS one, that came later.

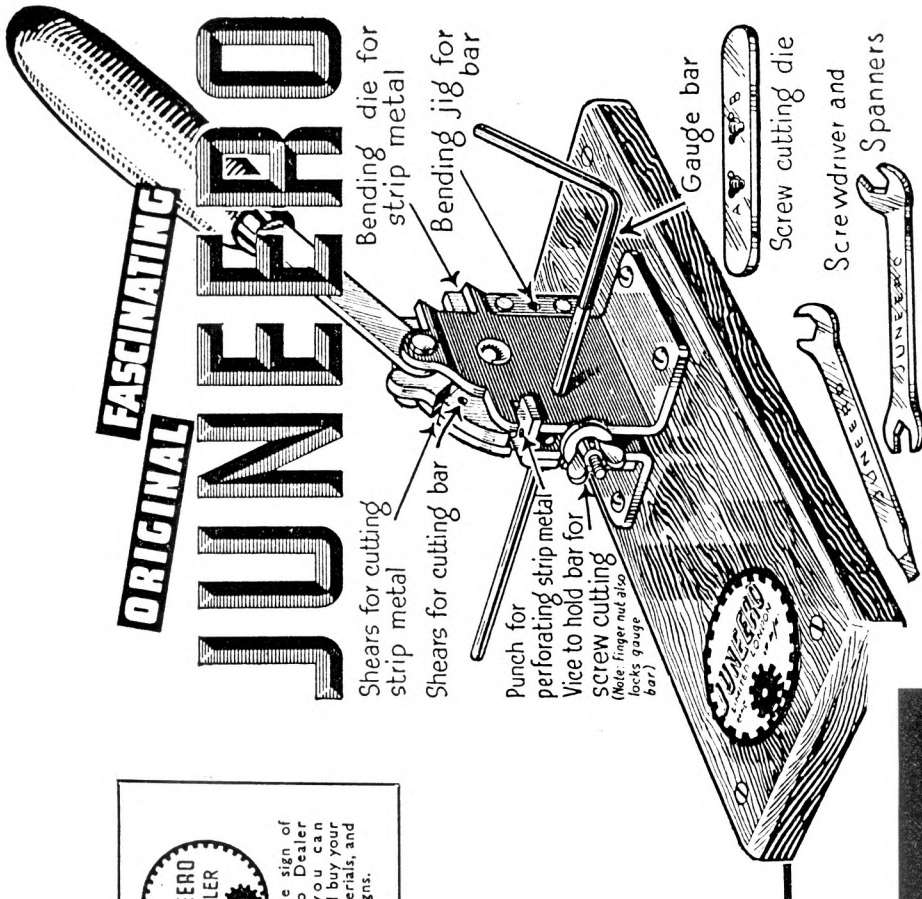
The following month there was another ad which contained some further information, to quote, 'The full range of Juneero Materials include Corrugated and metal sheets - plain or in various colours, glass substitutes for windows etc. - price 1/- per packet.' Some indication of the contents of the sets is also given, 'No.1. Comprises a Juneero Multi-purpose Tool, and a quantity of metal strips, bolts and nuts, rods, die, spanners and instruction manual. No.2. In addition to the contents of No.1 set, also includes the patent Scroll Tool, Shears, Corrugated metal and an increased quantity of materials.'


There was no ad in January 1940 but in February 'Great News! A NEW - and even better JUNEERO for 1940', and underneath, 'In accordance with JUNEERO policy of continuous improvement, all 1940 JUNEERO OUTFITS will include a new super-model of the Patent Multi-Purpose Tool.' The picture of the new Tool is the one in MCS, the earlier one has less robust looking side brackets etc and is shown opposite, (Fig 1). In small type at the bottom of the ad was an offer to owners of the old Tool to bring it up-to-date for 'quite a small charge'. Also included were illustrations of Design Sheets Nos 51-53,58,59,63 and the following, '1940 JUNEERO PRODUCTS incorporate so many new features, including electrical equipment! - that it is quite impossible for us to attempt to describe them in this small space. Therefore we ask you to post the coupon below; this will bring you a current copy of JUNEERO News-letter, together with full details and illustrations.'

In March a Signalling Station was illustrated and in the top was a bulb that could flash Morse Code; it was made from Design Sheets 65 and 66, and these could be obtained free by sending 3d for the current News-letter. Although not specified in the ad, a postwar list of Design Sheets shows #66 as a Tapper. Perhaps the bulb, a holder for it, and any special parts needed for the Tapper were the electrical parts referred to in the February ad; no later reference has been found to them. The front page of the newsletter is shown and on it can be seen a passbook with MEMBERS CARD on the front. There is also reference in this ad to 'Gear Wheels, Pulleys and similar parts for making working models' being available.

April saw an ad containing a list of Wholesalers for the UK and also an announcement that 'Sets and Materials are now available for various Countries Overseas packed with suitable literature in British, French, or Spanish languages. Enquiries for Export are invited.' The next ad was in July and the price of the Sets had increased to 15/- and 30/-, and there was also a Workshop Set listed for 60/-. The main thrust though was a mains powered Engraving Tool for Identity Discs, Pets' Collars, Garden Labels and so on. It cost 20/- as a set of parts with 'instructions for making with your existing Juneero tool.', or 30/- ready for use. The next ad in September covers the same ground but with the emphasis on household uses and repairs in wartime, and how you can charge your friends for small jobs and send the proceeds to War Charities or buy Savings Certificates. In October a prize of 10/6 was offered to anyone submitting a JUNEERO design for an aircraft which was good enough to be published as a Design Sheet.

In November there were several items of interest, including the (new) address in Boreham Wood. Then there was a photo of the Workshop Set (Fig 2) and some details of it - 'Neatly housed in a strong, well-made wooden case, the Juneero Workshop set contains everything necessary for making permanent metal models, utility articles, etc. In addition to the famous Juneero Multi-purpose Tool - which cuts, bends and punches - this set comprises tools for shearing, threading and forming, as well as a comprehensive range of materials including sheet metal, strip, rods, angle iron, corrugated metal, glass substitute, nuts and bolts, etc. A really magnificent outfit for the Juneero enthusiast or designer.' This was the first mention of Angle Iron. The aircraft competition was extended for another




 This is the sign of a Juneero Dealer where you can inspect and buy your outfit, materials, and designs.

JUNEERO OUTFITS COST—No. 1, 12/6. No. 2, 25/- and are obtainable from Juneero Dealers only. If, owing to War conditions you have any difficulty, send your order with remittance direct to us, adding 1/- for carriage and packing, and we will arrange for a set to be sent, but place your orders early or you may be disappointed.

JUNEERO LTD., 25, White St., Moorfields, London E.C.2

FIG 1



FIG 2

WORKSHOP SET

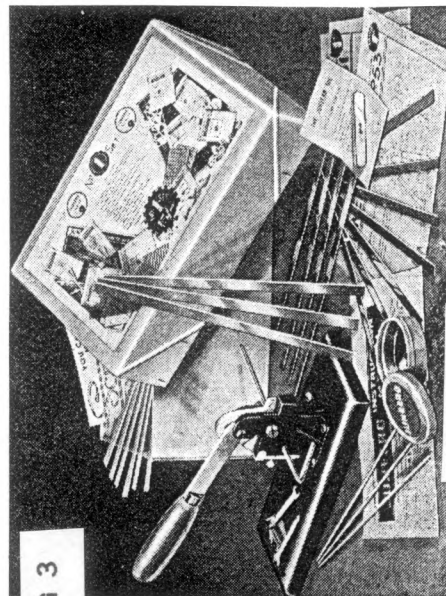


FIG 3

No. 1 SET



No. 2 SET

month because of the 'encouraging response', and there is a reference to Design Sheets 83 and 84 which show how to make an Autogiro. In December there are photos of Sets 1 and 2 (see Fig 3), and the new address is amplified as Stirling Corner, Barnet By-Pass, Boreham Wood.

The ads continued through the first 5 months of 1941. In January some of the various parts available were illustrated, all still at 1/- a packet. New to the ads were the Assorted Discs and Springs, and a Special Assortment of some of the lines illustrated was available at 2/6. Also shown were JUNEERO TRANSFERS of Brick, Slate and Stone for 'realistic finish to model buildings, etc.' There was nothing new in February but in March an Engineers Set was listed; at 84/- it 'comprises all the contents of the Workshop Set but with larger quantities of certain materials, the whole contained in a stout gauge metal case [capable of] withstanding heavy usage.' In April there was a picture of the Engineers Set (Fig 4), in May the same ad appeared, then nothing more in MM until after the war.

In the 11/45 MM JUNEERO sets at 25/- and 42/- were offered in the Hamleys ad and again at the same prices in 12/46. There was no further mention of JUNEERO in MM. In the handful of MEs available the first JUNEERO ad was in the 2/1/47 issue, it offered a leaflet and included the Patent No mentioned earlier under an illustration of the Tool. The next two, for 24/2/49 and 24/3/49 carried the same ad (Fig 5) and it can be seen that a 0 Set had been added to the range and for whatever reason the next sets were called 1a and 2a. As will become clear they were complete sets not add-ons. The last ad (Fig 6), showing the Minilec motor, was from the 21/4/49 issue.

The difference between the original Nos 1 and 2 sets and the 1a and 2a (normally referred to as 1A and 2A), is clear from one of the leaflets found in a hitherto unopened 1A Set examined recently. Presumably it dated from a point just after the new range of sets was introduced because one leaflet in it gave outline details of Sets 1 and 2, and another of Sets 0, 1A and 2A. These will be included in a new MCS sheet but the only extra items in the 1A and 2A compared with the 1 and 2 are the 'Xakto' Slide Gauge and Protractor. Part of this leaflet is shown opposite (Fig 7). As can be seen they could be bought separately for 7/6 and this is exactly the difference between the prices of the 1 and 2 Sets in the 12/46 MM ad and those for the 1A and 2A in the 2/49 ME. So the revised sets would no doubt have been introduced between those dates. Also a list of all the Design Sheets available, included in the Set, only goes up to No 116 (a Jeep), whereas the 1949 ME ads show up to No 121.

There are a few other points worth recording about the 1A Set mentioned above, and a few separate packets of Accessories that were with it. The reverse side of the leaflet which gave details of the Nos 1 and 2 Sets is shown as p7 of MCS(FB); the reverse of the one for Sets 0, 1A, and 2A is partly shown as p4 of MCS(NZ) (probably p3/4a of FB, it is an illustrated list of Parts 133 to 157) with the rest on p3/4b of MCS(FB), except that 2 items are missing from the bottom under ACCESSORIES - '147 RUST PREVENTATIVE. A Transparent Liquid for applying with soft brush or wool to finished models to prevent rust .. 1/6' and '118 METAL CUTTING SHEARS. With spring release for shaping Juneero Metal Plate .. 3/6'. Apart from the paperwork already mentioned there were also three Design Sheets; 'HOW TO USE JUNEERO Patent Multi-Purpose Tool and Equipment'; and a leaflet giving details of the JUNEERO ENGINEER'S CLUB and of a 'rolling' Contest for new designs in which prizes of £2 2s 0d, £1 1s 0d and 10s 6d, and Consolation Prizes 'are regularly awarded'.

Turning to the parts in the set, apart from the special tools, there were the following -

- a packet of 15x10" Strips, plain steel, 3/8" wide by .028" thick.
- a packet of 15x10" Rods, galvanised steel, .104" dia.
- a packet of dull plated 6BA Nuts and Bolts: 27 hex Nuts 3/16" A/F, 25 3/16" Bolts, with 3/16" dia round heads.
- a nickel plated Spanner with a flat end to fit the Nuts above and the other with a 1/4" wide opening (see later), angled up at about 30°.
- a nickel plated 'Screwdriver' with a 1/4" A/F ring spanner as the 'handle' end.

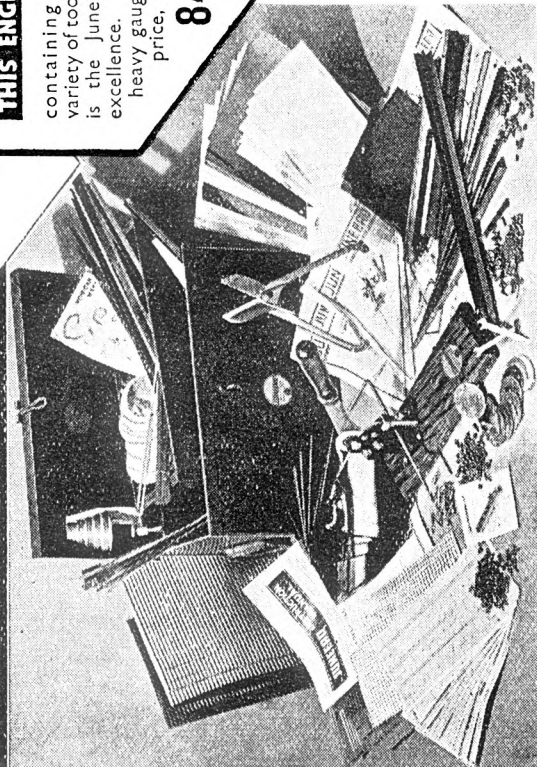
The Accessory packs were as below, all were priced at 1/-,

- **Springs Assorted.** 10 dull plated tension springs varying from .11 to .20" o/d and from .3 to 1" long, excluding the end loops.
- **Nuts.** 42 as described above with a double ended Spanner, also as above. There was a note in the packet saying that due to shortages the nuts supplied were smaller than normal, and that the enclosed Spanner would fit them as well as the normal size.
- **Metal Discs Assorted.** 12 each of two diameters, 2.56" and 1.89"; .012" tin plated steel.
- **Metal Sheet - Coloured.** Packet stamped BLUE. 2 sheets 7"x10", .012" thick, painted blue on one side, the other tin plated.
- **Corrugated Metal Sheet - Plain.** 2 sheets 7"x9 1/4", tin plated.
- **Corrugated Metal Sheet - Coloured.** Different packets were stamped either BLUE, RED, or GREEN. Each contained 2 sheets, 7"x8-3/4", painted one side, tin plated on the other. The corrugations of all sheets, plain or coloured, had a pitch of .21".

[cont. >]

JUNEERO IS FREE OF PURCHASE TAX

FIG 4



MANY FAMOUS ENGINEERING FIRMS now using JUNEERO

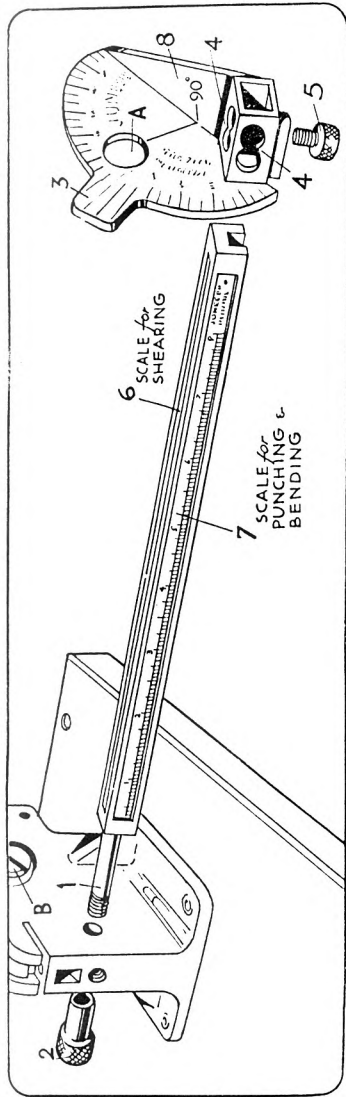
THIS ENGINEERS' SET

containing magnificent variety of tools and materials is the Juneero outfit par excellence. Packed in a heavy gauge metal box, price, complete

84/-

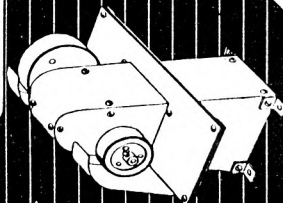
HOW TO FIX AND USE THE 'XAKTO' SLIDE GAUGE AND PROTRACTOR

FIG 7

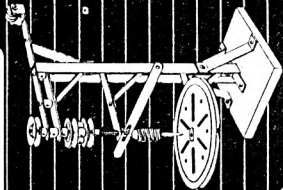


1. Slide Gauge and Protractor Securing Stud.
2. Knurled Thumb Screw.
3. Protractor Slide Plate.
4. Visual Indicator.
5. Indicator positioning Thumb Screw.
6. Measurement Scale for shearing.
7. Measurement Scale for hole punching and angle bends.
8. Protractor Slide Plate Platform.

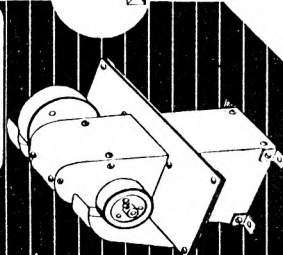
№120 - EMERY WHEEL



№121 - SINGLE PILLAR DRILL



№120 - CIRCULAR SAW



LATEST WORKING MODEL DESIGNS

AS DEMONSTRATED AT THE "MODEL ENGINEER" EXHIBITION

These new Working Models, to run off Electric or Clockwork Motors, are easily and simply constructed from the Design Sheets (2d. each) now available. Made entirely from JUNEERO equipment with the famous JUNEERO Patent MULTI-PURPOSE TOOL fitted with XAKTO SLIDE GAUGE BAR.

- No. 0 Kit—Tool & Gauge Bar only, 26/-
 - " 1a " —Tool & Gauge Bar with supply of material, 32 6
 - " 2a " —Tool & Gauge Bar with extra equipment 49 6
- All Gears, Pulleys and other Accessories ready for immediate delivery.

Apply to Local Dealer for Price Lists and details, or direct to

JUNEERO LIMITED
STIRLING CORNER
BOREHAM WOOD · HERTS

№119 - CENTRE LATHE

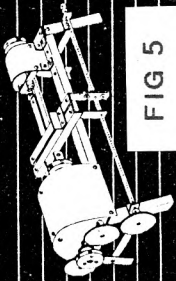


FIG 5

the motor you've been waiting for!

the new "MINILEC"

Known as The "Double M"

Provides Maximum power with Minimum consumption for making models of every kind, including Race Cars, Boats, Railway Engines, Lorries, etc., and for driving all types of Bench Models. Used with 3 v., 4-5 v., or 6 v. batteries or from A. C. mains through D. C. Rectifier, the "Minilec" gives ample power (4,000 r.p.m.) with only the consumption of a small flashlight bulb. Price 9/6 exclusive of purchase tax. Aluminium Cased.

Illustration shows actual size. Weight 1 1/2 ozs.

This housing to which the "Minilec" is fitted for driving bench models, is one of the many designs easily constructed with "JUNEERO" Constructional Tool and "XAKTO" Gauge Bar. Ask your local dealer for "JUNEERO" Design Sheets (2d. each) showing you how to construct bench and mobile models as real engineering jobs.

If any difficulty write to:—

JUNEERO LTD. STIRLING CORNER · BOREHAM WOOD · HERTS.

- **Rubber Tyres** for 1½ inch **Wheels**. Black rubber with no tread and JUNEERO moulded onto each side. Similar 1" Tyres have been seen.
- A 10" Angle Iron, reputedly JUNEERO, was 3/8"x3/8", of plain steel .032" thick.

Under 'Sets' in MCS(FB) is included the Gear Kit and Wheel Kit, and details of the latter have been contributed by Roger Baker. His set probably dates from the same time as the 1A above because the price of 21/- on the lid is also given in the later leaflet in the 1A. The contents of the set are printed inside the lid and comprise 2 off 2-3/4" Pulleys; 4 each of the Flanged Wheel, the three other Pulleys and the two Tyres; a Steering Wheel and one of each Gear, Pinion and Worm. It is a little surprising that although they were listed as Accessories in the 1A leaflet, the 2" Road Wheels are not included in this Set. The Worm, ½" Pulleys and Collars are made of brass, all the other parts are zinc alloy die-castings. All bosses are double tapped and all the die-cast parts except the Pinions have JUNEERO and MADE IN ENGLAND cast into them. Fig 8 is a photocopy of a photo of the set.

The Gear Kit has not been seen, the description of it in the 1A Set leaflet, and its price of 8/-, indicates that it probably contained a Steering Wheel, Collars, a Worm and one of each of the Gears and Pinions.

Finally a couple of other points. All the Spanners and Screwdrivers seen are stamped JUNEERO and apart from those already described one Spanner has ¼" wide jaws at both the straight and angled ends, and a Screwdriver has an open ¼" end angled in the plane of the blade, like the flat end of a MECCANO #34c. One like this is shown in Fig 1. Two types of Screw Cutting Die have been seen; both are essentially a diebar, about 2.6" long, with in one case a similar bar, but with a plain hole, spot welded to it to act as a guide, and in the other (this type was in the 1A Set), the guide is a bracket rather like a MECCANO #45, again spot welded on. Both are stamped JUNEERO, the first with the large 4mm high letters, as used on the Spanners, and the second with the JUNEERO logo of a gear inside an internally toothed ring. A third type with what appears to be two die openings, marked A and B, can be seen in Fig 1.

NEW PAGE FOR MCS: JUNEERO:
X1:6. [1 Sheet]

AMENDMENTS TO MCS (as necessary, depending on version)

SETS: Initially Nos 1 & 2. By 1941 also Workshop & Engineers Sets. Range in late 1940s: 0, 1A, 2A, Gear Kit, Wheel Kit.

MOTORS: One 3-6v dc called MINILEC. **MANUFACTURER:** Juneero Ltd., 25 White Street, Moorfields, London EC2; from 1940: Stirling Corner, Barnet By-Pass, Boreham Wood. Herts.

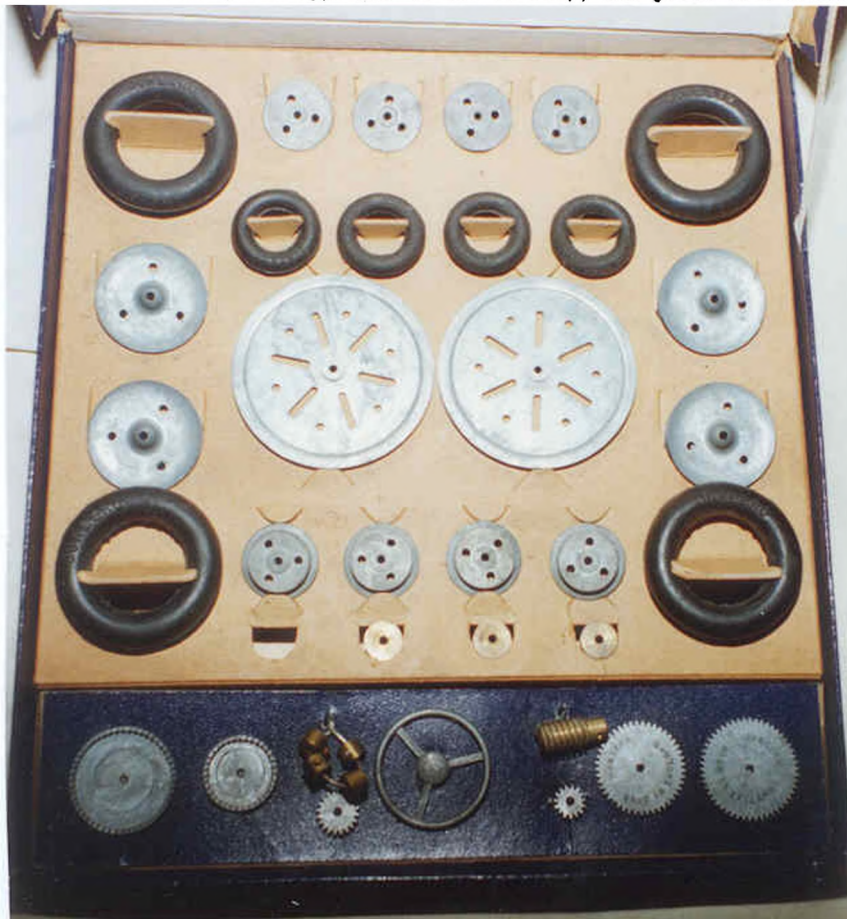


FIG 8

MORE ABBREVIATIONS. From Peter Kessler:

- KG** Could be 'Kommandit-Gesellschaft', and obsolete German (and Swiss) form of Limited Company operated by equally responsible partners. I have not come across any KG in the last 50 years.
- SRL** This is the usual form of an Argentine Limited Company (Sociedad con Responsabilidad Limitada), possibly used in other Spanish speaking countries.

And a couple from Don Redmand, plus KG as above, only spelt without the hyphen:

- BGB** Bürgerliches Gesetzbuch = civil code (law).
Déposé = deposited (for trademark purposes, as in 'marque déposée')

KONSTRUKTION PARTS. The proposition is that there were two phases of KONSTRUKTION [KNN], in the first the parts looked like those in MCS p4, and p3/4 of the Gears Set (FB only), with many but not all of them similar to fellow GDR CONSTRUCTION [CNN] parts; in the second most of the parts were virtually identical to CNN.

Notice in the first phase the A/Gs with normal elongated holes in one flange; the Pulleys #6b-6e, with recesses in their faces; and the #7 (Kurbel = Crank Handle), it was among some parts seen recently which were believed to be KNN, and was made in one piece, probably forged. Notice also that none of the parts have the long slotted holes which characterise CNN A/Gs and some of the Strips.

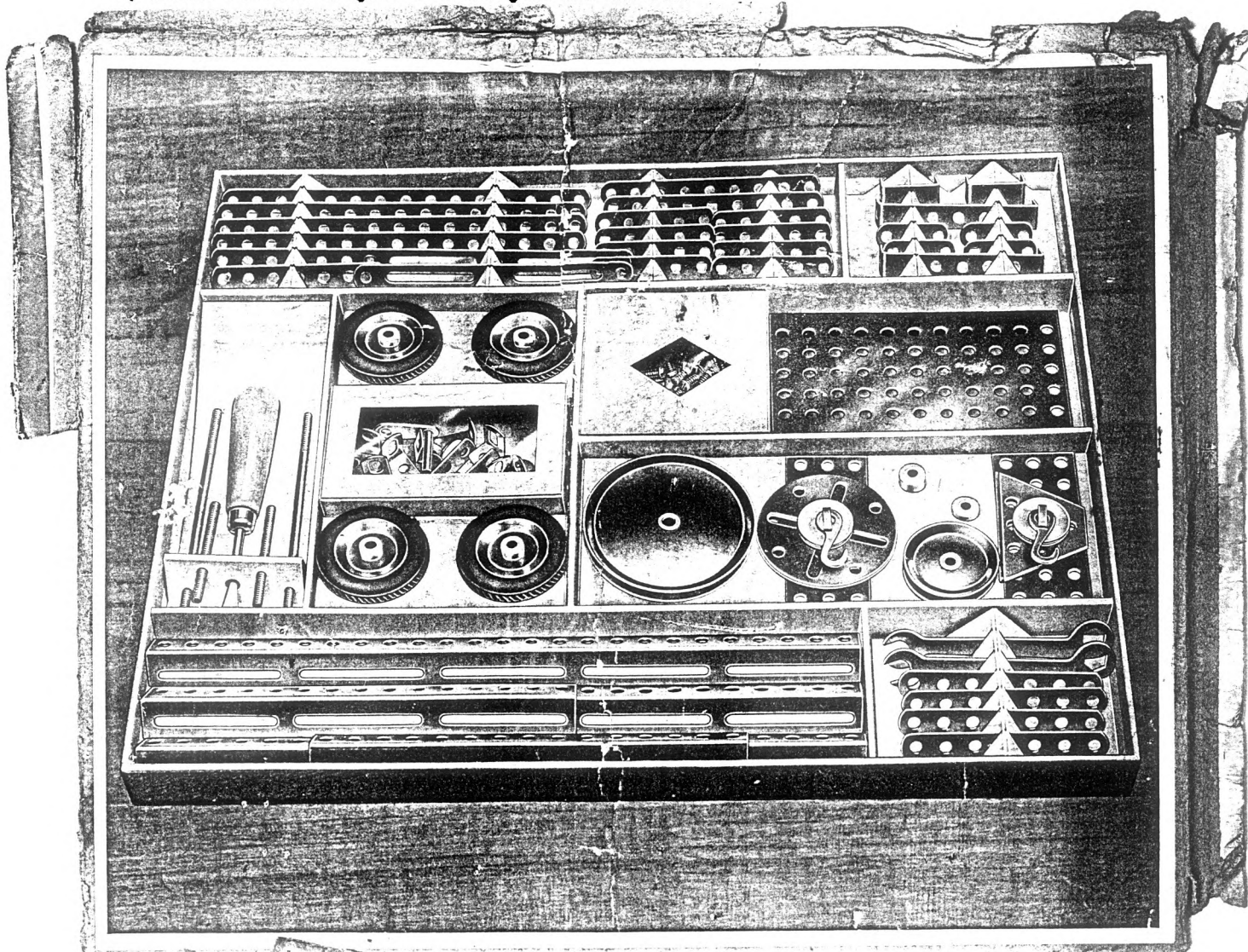
Now look at the picture below [x.43], it is the inside of the lid of a KONSTRUKTION Set #02 and shows how the box is laid out and many of the parts in it; the set was fairly complete (but no manual) and the parts tallied exactly with the lid, and with minor exceptions were just like current CNN parts. The A/Gs have long slots in one flange and round holes in the other; there are 11-hole Slotted Strips; the CNN type large Pulley #1312 has replaced KNN #6e; and the CNN pattern Kurbel, which you may be able to see in the box of parts, replaces the KNN #7 in MCS.

The differences mentioned above:

- The Tyres had a different tread and no markings on their sides. Other Tyres seen have KONSTRUKTION moulded into them.
- There were two types of Angle Bracket in the Set, one was like the CNN ones that have two elongated holes, and the other had a round hole in one arm and a rectangular slot in the other.
- The parts in the set that now have CNN plastic equivalents, were metal, typically nickel plated Pulleys with aluminium bosses. These were just like the CNN parts found in an old #120 CNN set, and also the same as the KNN Pulleys on which the KNN Tyres mentioned above were mounted.
- Some of the parts were of slightly thicker metal than current CNN parts, again similar to those in the #120 set.
- The Bolt heads are about the same diameter as CNN ones but have a slight taper to them.

The outer side of the lid carried a picture of a Digger, the same illustration that is at the top of p5 of MCS/FB, and Slotted Strips are used in several places in it; models made from the earlier KNN parts are shown on NZ p5, notice the Pulley #6e in Modell Nr 23.

My thanks to Geoff Wright for showing me the KNN set.



好望建造模 NEW SYSTEM - HAO WANG (GOOD HOPE). Mick Burgess kindly passed on the manual for the 00 Outfit of this Chinese system. The only name on it is the one above in Chinese characters, so the question arose as to what it should be called, and Don Redmond and a colleague of his have provided advice and the necessary translation. The Chinese characters (ideograms) can be romanized, that is, shown as the phonetic spelling of the sounds of the words for which the characters stand; the first 2 characters, from the left, are HAO WANG (pronounced How Wong) when romanized and mean GOOD HOPE, and the final 3 mean CONSTRUCTION MODEL(S). The 'S' is in brackets because there is no plural form in Chinese. The Manufacturer's name is also on the cover, and it translates as 'Joint Private and State Company Good Hope Construction Models for Educational Purposes.' An address in Shanghai is given later in the manual and an aftersales service phone number - 61632.

There is no date given anywhere but the mention of the Private/State Company indicates post WW2, and it has to be after 1954 because some of the models are straight copies from the 1954-61 series of MECCANO manuals.

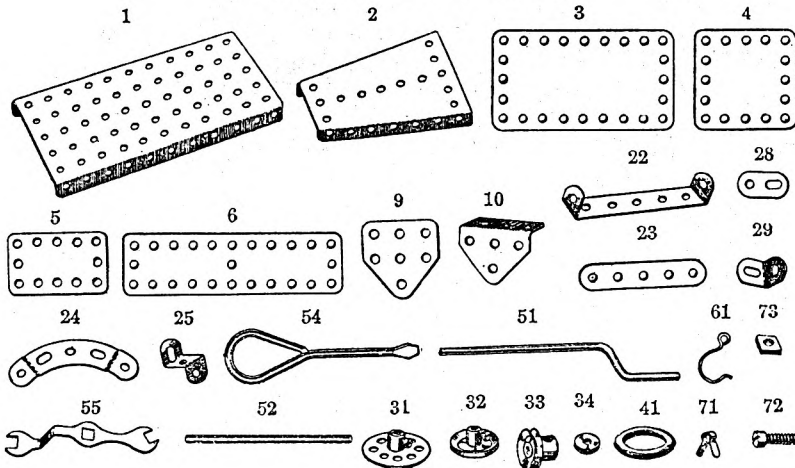
The Illustrated Parts List in the manual is reproduced below, reduced in size; the Footnotes explain that there are other sizes of some of the parts shown. The 7-hole Flanged Sector Plate and the Trunnions look much like the parts in the current Chinese WISDOM, CONSTRUCTION MODELS, CONSTRUCT-O-STEEL sets, so maybe HAO WANG was their forerunner. Don has pointed out that the 3 ideograms meaning Construction Model(s) also appear on bilingual CONSTRUCTION MODELS and CONSTRUCTION MODEL WISDOM manuals, but Good Hope does not appear, and the style of the introductory material is not the same. Whether the hole spacing is the MECCANO 12.7mm or whether it's the WISDOM etc 12.5 is not known. Not all the parts shown are used in the #00 Outfit and no doubt the others are included in larger sets. A #74 is included in the Set Contents but not in the Parts List; it turns up in the Parts Required for some of the models and it may be Cord. The contents of the #00 Set are quite similar to those of a 1920s MECCANO #0, plus a few parts introduced more recently.

It has already been said that some of the models are 1950s MECCANO vintage, and the rest are from earlier MECCANO manuals. All are rather dark reproductions of the MECCANO illustrations, so they show MECCANO style Trunnions, etc, and the numbered pointers that referred to explanatory notes in the originals are still there, though no Chinese explanations are provided. The Parts Required though have been rejigged to reflect the HAO WANG Part Nos. 97 models are included and some of them date back to the 1920s. One 'early' and one 'late' model are shown below.

EXTRA PAGES FOR MCS: HAO WANG: X1.1,2,3/4/6,5. [2 Sheets]

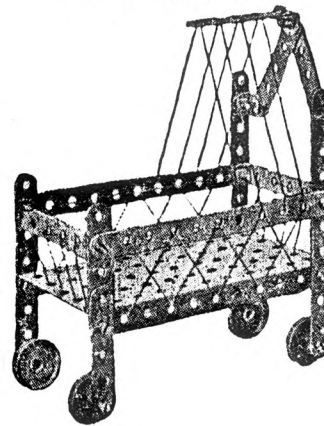
[Cont. >]

本建造模另件圖樣及編號



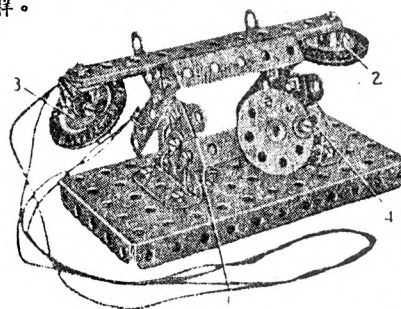
- 附註：1. 20、21、26号零件与23号零件相似，僅洞眼数目不同，故不列圖樣。
 2. 30号零件与31号零件相似，僅少一軸心。
 3. 53号零件与52号零件相似，僅短些。
 4. 各零件編號以此為範本。

00.22 嬰兒床



- 所需零件
 1号零件 1
 20,, ,, 4
 22,, ,, 2
 23,, ,, 7
 29,, ,, 3
 32,, ,, 4
 72,, ,, 18
 74,, ,, 1

00.84 電話



- 所需零件
 1号零件 1
 9,, ,, 2
 10,, ,, 2
 20,, ,, 4
 22,, ,, 2
 23,, ,, 2
 24,, ,, 2
 29,, ,, 2
 31,, ,, 1
 32,, ,, 2
 41,, ,, 2
 72,, ,, 18
 74,, ,, 1

公私合營 好望教育建造模型工業社編印

地址：上海(9)成都北路三十四弄三號本社
 電話：六一六三二

MANUFACTURER'S NAME AND ADDRESS

AMENDMENTS TO INDEX IN OSN 6 NAME: HAO WANG. TYPE: CH. CY: CN. THREAD: SPCE: 12.5e. dST: DAXL:

SUMMARY OF MANUAL. #Name: HAO WANG. #Details of maker: From Shanghai. #Dates &/or Ref Nos: None. #Page size: 195x132mm deep. #No of pages: 32 inc unnumbered covers. #Language: Chinese. #Printing: All illustrations are halftone. The cover is brown on fawn; otherwise reddish-brown on off-white. #Page Nos of Parts List & highest PN: 31.73. #Page Nos of Set Contents & highest PN: 3.74. #Sets covered: 00. #No of models for each set: 97. #Name, Model No, Page No of first & last model of each set: [Equivalent MECCANO names are given] Flat Truck, 00.1, 4; Double Arm Signal, 00.97, 30. #Other notes: None.



ELECTRIC Erwin Wyss has sent a photocopy of the cover of the manual from a Set he has, together with the Illustrated Parts List and Set Contents, and one or two details about it. The cover (below x.8) is rather charming I think, it dates from 1932 and has no Set No., probably at that time it was the only outfit available, with the #1-3 and A and B, mentioned in MCS, coming later. It is noticeable that the typeface used for ELECTRIC is different from that on the MCS #3 cover. The Parts/Contents are identical to MCS p3/4, and the contents of #3, to which most of the MCS entry relates, are listed there on p6.

On the parts Erwin wrote that the thread is 5/32" BSW and that the metal parts are nickel plated. He also amplified the address given in MCS, Sachs is near Meissen in Sachsen [Saxony].

AMENDMENTS TO MCS (as necessary, depending on version)

COLOUR: Metal parts nickel plated. PERIOD: c1932 to 1940s. MANUFACTURER: Bohmer, Hoffman & Co., Sachs, Near Meissen, Sachsen. Germany.

AMENDMENTS TO INDEX IN OSN 6: THREAD: 5/32W.

Dies Büchlein weist den Weg vom einfachen Stabmagneten zu den Maschinen und Apparaten der Elektrotechnik.

ELECTRIC

Nicht sinnloses Basteln, sondern planmäßige Versuche führen zum Ziel

Dies Büchlein gibt die Anleitung zum Anstellen von **60 elektrischen Versuchen** und zum Bau von: **40 elektr. beweglichen Modellen.**

mit dem **Electric-Baukasten**

M Br.

A BILT-E-ZE FLANGED PLATE. This Set is only in MCS/FB. The Parts List there makes no mention of a Flanged Plate, there is an 11x5 Hole Panel but the models show this to have only peripheral holes. David Martin though showed me recently an 11x5 hole Flanged Plate, fully perforated except for the centre 5 holes of the middle long row, which has BILT-E-ZE stamped on the inside of the blank area. It is flanged on its long sides and all the holes are round, of .162" diameter; the hole spacing is 1/2" but is slightly irregular, and it is painted a light/medium red.

MASTERBUILDER Some more information is now available about MASTERBUILDER, following the account given in OSN 6, p119, particularly about the 4001-8003 Sets. Before getting on to those, one or two remarks about the 0-3 Sets. Geoff Wright showed me a #1 Outfit recently and the lid bears the words PATENTS APPLIED FOR. None of the other literature seen has any mention of patents so perhaps the application was unsuccessful, but whether it was or not the words used may well indicate an early set - and if so it means, as one might expect from the range of parts included in the outfits and their finish, that the 0-3 Sets came before the 4-figure series. All the parts in the #1, excluding the Axles and of course the bakelite Plates were nickel plated, so perhaps this was the original finish and the black metallic parts and untreated brassware came later. The 0-3 series also included linking sets, OA is mentioned on p2 of the NZ MCS, and an equivalent #2 Manual mentions a 2A.

Now for the later sets, a Manual has finally turned up which covers Sets 4001, 6001 and 8001, and its Introduction, reproduced below, also gives a brief description of all the sets of that period including one not heard of before, #10001.

BUILDING UP YOUR KIT BY THE MASTERBUILDER SPECIALISATION TECHNIQUE

Masterbuilder is sold in ten different sizes to suit the four specialised types of construction shown below on the right:—

Series:	Size:	Type:	
4001	BARONET	Junior	A range of Sets designed for Automobile and Railway Engineering enthusiasts who like models of cars, lorries, mobile cranes, fire engines, locomotives and rolling stock.
6001	CARFAX	Senior	A unique group of Sets that meets the needs of Structural Engineering enthusiasts who prefer models of rolling, swing, lifting, suspension, bowstring, box girder, and truss bridges, cranes of varied types, towers, transporters, etc.
8001	CARRIER	Advanced	A specialist selection of Sets, catering for Civil Engineering enthusiasts who seek, in addition to the above, models of scaffolding, shoring, emergency bridging, radio masts, bulk handling plant, all of which can be made in this series entirely from steel rods and screwed connectors.
4002	BRIDGET	Junior	An entirely new feature set for Mechanical Engineering enthusiasts who require accessories for driving and controlling models by means of worm and spur gears, flexible cables, cord and chain drives, roller turntables, etc.
6002	ARCHWAY	Senior	
8002	VIADUCT	Advanced	
4003	RODNEY	Junior	
6003	NIMROD	Senior	
8003	RAMROD	Advanced	
10001	MOBILE		
	Accessory Set; to be used in conjunction with any of the above automobile, structural, and civil engineering sets.		

In each group the Series 4000 can be converted into a Series 6000, and the Series 6000 converted into a Series 8000 by adding to it a conversion set, so that whichever set is used at first, it can be built up into the largest in its series. Also by adding a Mobile Series 10001 Set to any of the other Series, the model making possibilities are at once widened especially in the hands of a keen user.

In addition there is available the full range of Masterbuilder spare parts, many being of unique design and wide application.

All genuine Masterbuilder parts are treated in attractive enamel, or special process finishes, giving a smart and realistic engineering appearance to models, and can be obtained from your Masterbuilder dealer.

MASTERBUILDER SPECIAL FEATURES

Included in the range of Masterbuilder parts are the following components of unique design, and which can be seen in the index of parts:—

1. Webbed Channel Girders of exceptional strength, for use as chassis members, bridge trusses, elevator uprights, etc.
2. Bronze Connectors for joining rods at right angles.
3. Drop forged Crane Hook of unusually realistic appearance, and great strength.
4. Slotted Shackles for anchoring rods to flat parts at varying angles.
5. Cable drum in moulded material, for use on cranes and excavators.
6. Real Mudguards of modern appearance for use on road vehicles.
7. Unique dual purpose Road/Rail Wheel for use with special Masterbuilder Rubber Tyre, which add the last word in smartness to automobile and railway models. (When fitting the tyre to the wheel care should be taken to see that the special groove in the rubber seats snugly all round upon the flanged rim of the metal wheel—see illustrations.)

The Manual contains an Illustrated Parts List which includes some parts which are not needed in the 4-8001 sets, so it may list all the parts then available. It does not though mention Chain (or Sprockets) for the 'chain drives' which are said above to be possible with the 10001 Outfit. This Parts List will be included in Extra MCS Pages. The new parts in it, over and above those mentioned in OSN 6, are: #6011, an 11-hole Strip; #6013, a 1x5x1-hole DAS; and #6021, the Mudguard discussed as Mystery Part #8 in OSN 4/73 and 5/95. Another part not seen listed elsewhere is the Tyre #1143 but perhaps it was included in Set #3, for which no list of parts is available. It fits over the Flanged Wheel 1082 and has a slit around its inner diameter which engages the flange. Other 'new' 1000 series parts are: #1026 and #1028, Axles 2½ and 4" long; #1091, a small Pulley with no boss; #1104, Worm Gear; and #1161-63, 3 sizes of Peg Axle. All the parts not included in MCS/FB are shown opposite, including the 1.3" Gear which is modified to have 8 holes in its face.

The Contents of the Sets are not given in the manual but a tentative list has been made up for Sets 4001, 6001 and 8001 from the parts listed as being needed for each model: this is included in the new MCS Sheets. Having drawn up this List it appeared that some parts which came with the Manual comprise all the new, 6000 series parts that would have been needed for a 8001 Outfit, plus the 10 Flanged Wheels #1082 and the 10 Tyres #1143 which are in Set 8001. Perhaps someone once bought them as extra parts to bring his old set up to date.

The theme of the 4-8001 Sets is wheeled vehicles and apart from one or two small models like a Swing

and a Table, and a few larger ones, a Lathe and a Roundabout for instance, all the 49 models included have wheels; they range from 2-wheeled Carts to 10-wheeled Lorries, with in between Lorry mounted/Mobile Cranes, a Jeep (shown below), a Fork Lift Truck, military vehicles and a Field Gun, and an Electric Loco. None are very large (the Tyres have an o/d of about 1-3/4"), but most look quite well, and the Mudguards add to the appearance of many of the models although they don't perhaps work so well when 2 Wheels are mounted on either end of an Axle. All the models are simple mechanically with no suspension and the only model to have steering is a Tractor where it is operated by cord wrapped many times around the Axle on which the steering wheel is mounted. On the cranes there is no pawl or catch of any sort to hold the load. Two other of the models are reproduced on the front cover.

All the parts that came with the Manual are marked with the Part No. except the 11x5-hole Flanged Plate, the Mudguard, the Flanged Wheel, and the Tyres. The latter are of black rubber, with no tread but 3 concentric raised rings on each sidewall and MADE IN ENGLAND on the outer face. The Plates and Strips are painted orange or blue and for many of the blue parts orange ones had been seen before and vice-versa. The Flanged and Bush Wheels are dark red.

Finally some addresses for MASTERBUILDER: the #1 Set referred to earlier has K.W.PRODUCTS LTD, QUORN, LEICESTERSHIRE. on the lid. The address from a #2 Set, with again nickel parts is K.W.PRODUCTS LTD, EREKTOR WORKS, MOUNTSORREL. LEICESTERSHIRE; that on the 4-8001 Manual is the one in MCS, MASTERBUILDER (KWP), MOUNTSORREL, LOUGHBOROUGH. LEICS. Both Quorn and Mountsorrel are within a few miles of Loughborough.P

EXTRA PAGES FOR MCS: MASTERBUILDER: X1.1,2a,3/4a,5a,6. [3 Sheets]

AMENDMENTS TO MCS: Replace existing p1 by X1.1. Mark all other existing pages 'PHASE 1'.

SUMMARY OF MANUAL #Name: MASTERBUILDER. #Details of maker: MASTERBUILDER (KWP), MOUNTSORREL, LOUGHBOROUGH, LEICS. ENGLAND. #Dates &/or Ref Nos: 6041 on the front cover. #Page size: 219x186mm deep. #No of pages: 64 inc covers, all numbered except pp 1,63,64. #Language: English, French, German, Spanish. #Printing: Dark red line drawings and text on light blue-green paper. #Page Nos of Parts List & highest PN: 63,64. [6031]. #Page Nos of Set Contents & highest PN: No Contents. #Sets covered: 4001,6001,8001. #No of models for each set: 4001: 12. 6001: 22. 8001: 12. Plus 3 using more than one set. #Name, Model No, Page No of first & last model of each set: [No Model Nos] 4001: TABLE, 9; LEVEL CROSSING GATES, 14. 6001: GARAGE RECOVERY TRUCK, 15; FARM TRAILER, 35. 8001: CAR CHASSIS, 36; MAINLINE ELECTRIC LOCOMOTIVE, 60. [The 'combined' models are on pp 38-39 and 46-49] Other notes: The full range of sets are briefly described in pp 2-8.



- 1026 Rod 2 1/2 in.
- 1028 Rod 4 in.



1091 Pulley



1101 Gear 1/3 in.



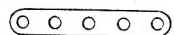
1104 Worm Gear. Meshes with 1101 at 1 in. centres



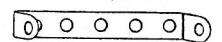
1143 Rubber Tyre. To fit 1082



1161 Peg Axle 1/2 in.
1162 Peg Axle 3/4 in.
1163 Peg Axle 1 in.

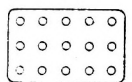
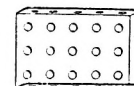
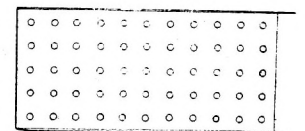
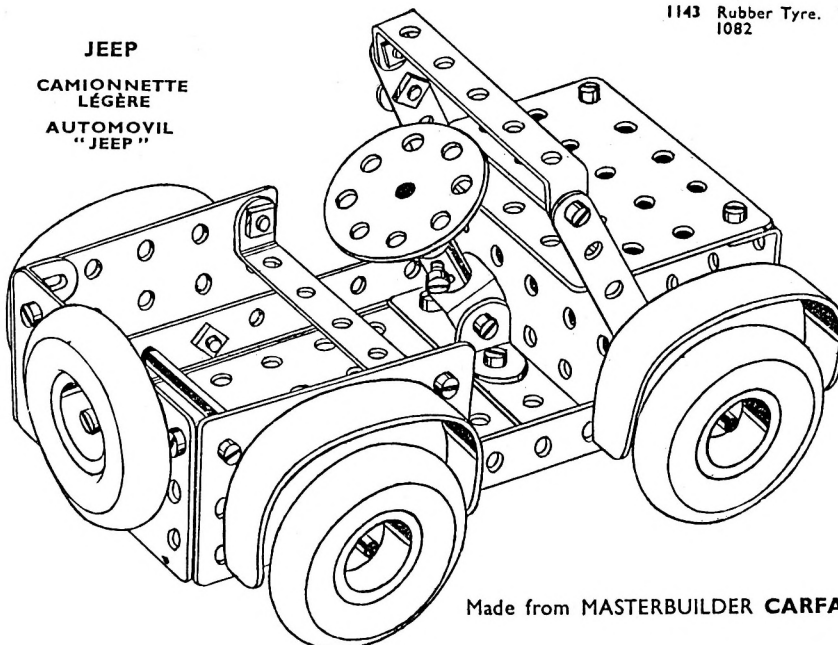


6011 Strip 5 in.
6012 Strip 2 in.

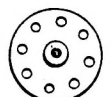
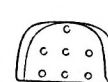


6013 Bent Strip 1 in.

JEEP
CAMIONNETTE
LÉGÈRE
AUTOMOVIL
"JEEP"



6003 Flange Panel 2 in.
6004 Flange Panel 1 in.
6005 Flat Panel 1 in.



6021 Mudguard
6031 Fiat Wheel 1 in.

Made from MASTERBUILDER CARFAX

MODELIT Bill Harrison who makes those rejuvenated ERECTOR sets mentioned in OSN7/163, very kindly sent across two American OS Sets, one a THE CONSTRUCTIONEER and the other a MODELIT #3. These were the more welcome because items on North American systems are relatively rare in OSN. I hope to discuss THE CONSTRUCTIONEER in the next Issue.

MODELIT is quite well described in MCS so I'll base these notes on the entry there. But for anyone without MCS, MODELIT dates from the late 1910s or early 20s and came as Sets #1-5. It is basically a variation on nickel MECCANO, the most noticeable difference being that Flat Plates, including a Sector Plate, were provided instead of Flanged ones, with suitable length A/Gs to bolt to their edges. The range of Pulleys, Gears, mechanical parts, etc is typical of 1914 MECCANO but with the addition of 2 sizes of Sprocket Wheels. But there are no Couplings or Cranks.

The #3 Set is virtually complete, and includes a Manual which covers all the MODELIT Sets. The box measures $13 \times 10\frac{1}{2} \times 1\frac{1}{4}$ " and is all black, inside and out, except for a label on the lid which is almost the same as the cover of the Manual, and a light green loose card panel inside, to which the rotating parts are attached by nickel bifurcated paper clips. Detailed comments on the parts and manual are as follow:

- The parts are as shown on p4 of MCS with 3 exceptions: there are no holes in the face of the $1\frac{1}{2}$ " Pulley, #16; the Sector Plate has 2 extra holes on each side, each 1" from the end hole; and the Screwdriver is the bent wire type (opposite, x.5) and not with a wooden handle as shown.
 - All the parts are nickel plated except the bosses, Collars and Pinion, all of brass, and the steel Hook, Axles, Crank Handles and Crankshaft.
 - All Strips, A/Gs, Brackets have semi-radiused ends though the Angle Brackets are near fully radiused. All the Strips are the same thickness, .043", and the A/Gs are from .031" thick stock. The width of the various Strips is $.5 \pm .005$ ". The Plates have sharply square corners, except the Sector plate which is well radiused.
 - With a few exceptions the parts are accurately made, the Strips and axles are straight, and the hole spacing is consistent. The only obvious defect is that the metal after the last row of holes to the edge of the plate is not constant (in the lengthwise sense); in the worst case it is .03" at one end and .19" at the other. The diameter of the holes in the various parts is generally near 4.4mm but in one or two cases it is as small as 4.1mm. For example all the holes in one 5x11 hole Plate are 4.4mm but in the other they are all 4.1.
 - Slight burr can be felt around holes on the side remote from the punch, and also on the ends of some of the Strips, etc: but only as roughness to the touch, not sharpness.
 - The bosses are very neat, they are nominally $\frac{3}{8}$ " dia and are .22" deep. Very little material is peened over to hold the boss in place but they seem secure. Bosses are single tapped 6-32 and the Set Screws fitted have tiny cheeseheads, .156" dia, and they're no longer than they need to be. The bore of the bosses is 4.18mm. The Collar is the same size as the boss.
 - The only gear in the #3 Set is the $\frac{1}{2}$ " Pinion, it has 19 teeth and a DP of 38. Its face is .235" and the length overall is .495".
 - The Axle diameter is 4.01mm. The Crank Handles, #51 and 52, are pierced with a small hole approximately $1\frac{1}{2}$ " from the bend at the end of the shaft.
 - The Bolts have roundheads, 7.5mm dia, and are $\frac{5}{16}$ " long u/h; the Nuts are square, 7.2mm A/F. The Woodscrews are roundheaded, .255" dia, with shanks .140" dia and $\frac{9}{16}$ " long; they have a dark, metallic finish.
 - The Sector Plate is very similar to another which Ed Barclay sent, that is thought to be CASTLE BUILDER. The obvious difference is that the 3-hole end of the MODELIT Plate is concave and the C B one is straight. Looking more closely, the end holes of the MODELIT part are actually located on circular arcs so the holes follow the concavity of the 3-hole end. The different radii of the arcs are such that the 4" centres between the outer holes at each end remain constant. The end holes of the C B Plate are on lines normal to the centre row and to allow a 4" A/G to be bolted on, the 4 'corner' holes are noticeably larger than the others.
- To digress for a moment, it was noted in OSN 6/137 that some of the CASTLE BUILDER parts looked similar to those of AMERICAN MODEL BUILDER, but there is even more of a resemblance between the MODELIT and C B ranges of parts. Apart from the tools virtually every C B part has a MODELIT counterpart.
- Two dimensions not yet noted: the Bush Wheel is $1\frac{1}{2}$ " dia and the $\frac{1}{2}$ " Pulley mikes up at .501". The 1" and $1\frac{1}{2}$ " Pulleys are also close in size to their nominal values.
 - In the Manual there is an ad for 2 Electric Motors which is shown on p6 of MCS/FB. It also says in the Manual that they will run on 1 dry cell but 2 should be used when more power is required. In MCS it is noted that these motors are copies of the 1913 AMB motor and there is a picture of an AMB motor in the March 1992 CQ, p35.
 - The Manual has a bright cover and the models, although rather reminiscent of the MECCANO ones of the period, are not straight copies. There are a good selection for the #1 Set but only 5 each for

the larger sets, and although some of the #4 and 5 Set models are I think quite attractive/interesting looking, all could be improved if more of the parts available in the Set in question had been used. But that is typical of the models of many systems at that time. As far as I could see some parts, like the Eye Piece, the Propeller Blade, and the Small Perforated Base are not used at all. The part most needed to add some realism to the motor vehicles shown is a decent size Road Wheel, instead of the $1\frac{1}{2}$ " Pulley, a surprising omission when both ERECTOR and AMB had Spoked Wheels in their sets. For each model there is one reasonably good, but not over large, photo and a list of the parts needed; this is adequate for most of the models but for some of the larger ones the MODELIT boy would need to work out some of the mechanical detail for himself.

• The cover shown in MCS is p1 of the Manual and not the cover itself, see below.

MODELIT's main claim to fame was perhaps the use of separate Plates and A/Gs instead of Flanged Plates. Equally the 1x5x1 hole DAS, which particularly in small models, saves so many Angle Brackets and Nuts and Bolts, was not in the MODELIT inventory. The flexibility arising from the use of separate parts could clearly be an advantage in some cases although there would be drawbacks as well, and in fact little or no use was made of the feature in the Manual models. Perhaps it was just a question of avoiding MECCANO patents.

EXTRA PAGE FOR MCS: MODELIT: X1.1. [1 Sheet]

AMENDMENTS TO MCS (as necessary, depending on version)

HOLE DIAMETER: Add: In parts in a Set typically 4.4mm but 4.1 in one Plate. MANUFACTURER: Add address: East Hampton, Conn., U.S.A.

AMENDMENTS TO INDEX IN OSN 6

THREAD: 8-32* dST: 4.4. DAXL:4.01.

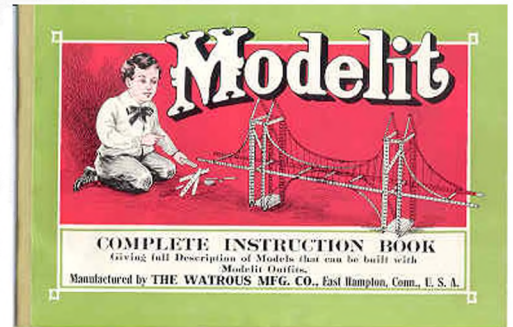


#40. Screw Driver.

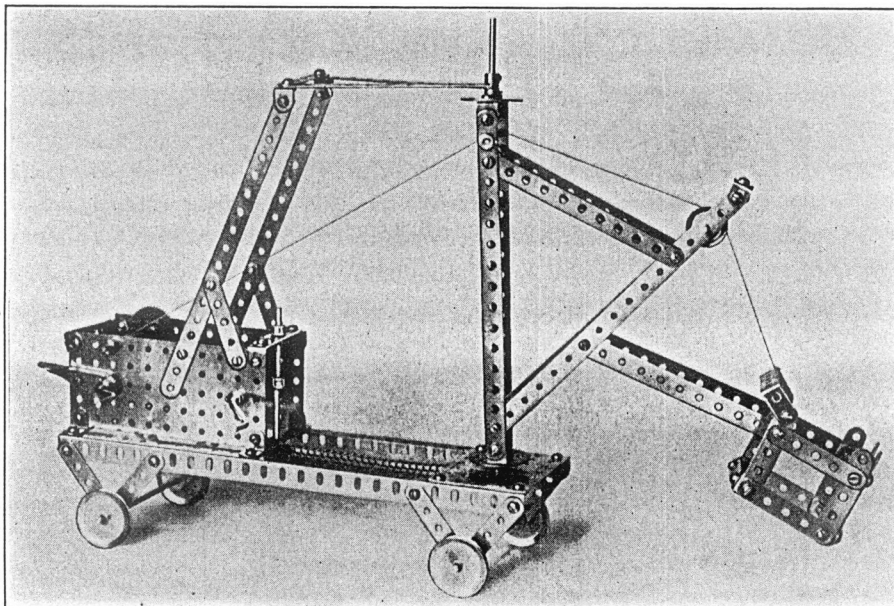
SUMMARY OF MANUAL

#Name: MODELIT. #Details of maker: THE WATROUS MFG. CO., East Hampton, Conn., U.S.A. #Dates &/or Ref Nos: None. #Page size: 255x172mm deep. #No of pages: 32 plus covers. #Language: English. #Printing: Photos of models. Cover is red (black and white detail) with white panel (black lettering) and light green surround. #Page Nos of Parts List & highest PN: 28-29, 66. #Page Nos of Set Contents & highest PN: 31, 66. #Sets covered: 1-5. #No of models for each set: 1:20.

2:5. 3:5. 4:5. 5:5. #Name, Model No, Page No of first & last model of each set: 1: FACTORY TRUCK,1,3; REVOLVING FOOT BRIDGE,20,9. 2: SCALES,21,10; TRAVELING JIB CRANE,25,12. 3: WINDMILL,26,13; LAWN SWING,30,15. 4: TRAVELING OVER-HEAD CRANE,31,16; DRAW BRIDGE,35,19. 5: AERIAL SWING,36,20; INCLINED DELIVERY CHUTE,40 24. #Other notes: None.



M O D E L I T W I T H M O D E L I T



SAND SHOVEL

Model No. 39

PARTS REQUIRED

- 2 — $12\frac{1}{2}$ " Angle Girders.
- 6 — $8\frac{1}{2}$ " Perforated Strips.
- 6 — $5\frac{1}{2}$ " Perforated Strips.
- 2 — $3\frac{1}{2}$ " Perforated Strips.
- 23 — $2\frac{1}{2}$ " Perforated Strips.
- 24 — Angle Brackets.
- 1 — Double Bent Strip.
- 1 — Large Bent Strip.
- 2 — Bush Wheels.
- 1 — $1\frac{1}{2}$ " Gear Wheel.
- 2 — $\frac{1}{2}$ " Pinions.
- 1 — $\frac{3}{4}$ " Pinion.
- 1 — Worm Wheel.
- 1 — $1\frac{1}{2}$ " Sprocket.
- 1 — 1" Sprocket.
- 1 — Piece Chain.
- 3 — 2" Axle Rods.
- 2 — $4\frac{1}{2}$ " Axle Rods.
- 2 — $3\frac{1}{2}$ " Axle Rods.
- 2 — $4\frac{1}{2}$ " Cranks.
- 4 — $1\frac{1}{2}$ " Pulley Wheels.
- 1 — Pawl.
- 10 — Collars.
- 2 — Large Perforated Plates.
- 1 — Medium Perforated Plate.
- 1 — 1" Pulley Wheel.
- 86 — Screws and Nuts.

The above Model can be made with Modelit Outfit No. 5.

ELEKTROMECHANISKAIS KONSTRUKTORS That's a long name so I'll call it EMK. The MCS entry for it is under the name ONBITOB which, see OSN 3, was a mistake, it means 'models'. The parts and layout of the Set, taken from the Manual, are shown clearly in MCS; shown also is one of the models from the Manual which is identical, including the exploded views, to a MECCANO model of the 1962-69 period. And it is clear from the Set layout that not all the parts correspond in detail to the MECCANO ones shown in the model.

José Bernal Moreno who owns a Set, has provided further interesting details about the parts and the problems in using them:

- The colour scheme is generally that of MECCANO immediately prior to the changes made in 1970, that is bright zinc plated Strips, Girders, etc (though the EMK parts are not so bright); black Flanged Plates and Plastic Plates; and yellow Flexible Plates, Braced Girders, Trunnions, etc. Variations from the MECCANO colours are noted below.
- The hole spacing is 12.5mm (as stated in MCS) not the MECCANO 12.7mm. Holes in metal parts vary in diameter between 4.3 and 4.4mm, but 4.3 is the most common.
- #7, Spalle, is made of nylon and is 11.5mm dia; #8 and 9 are metal with diameters of 9 and 19mm.
- #11 (Cord Anchoring Spring) is not like the MECCANO pattern; it is a wide spaced coil of thin wire with a long loop at one end.
- #17, (Rod Connector), the longitudinal cut is straight and not cranked at each end as shown.
- #21,23,24 (25,50,75mm Pulleys with Boss) are made, respectively, of red, yellow, blue plastic. See sketch of #23, the purpose of the two smaller holes in its face is not known.
- #25,27 (15,25mm Pulleys no Boss) are of white, red plastic. #27 is as shown in the Set layout with no holes in the face.
- #88 (Gear) and #26 (Pinion) are white plastic and are Mod 1.
- #41 (Bush Wheel) is yellow plastic with an o/d of 34.5mm. Its face is 3mm thick and contains 4 equispaced 5.5mm dia holes.
- All bosses are plastic with an o/d of 13.4mm; they are not tapped but have an internal recess, about 3mm wide, which extends about 10mm along the bore, see sketch. This might engage with a Spring Clip similar to the old MECCANO MME type. However there are no such Clips in the Set and so none of the bossed parts can be attached to the Axles.
- All the Tyres are black rubber; the one shown in #29 fits the Pulley #23 and has an o/d of 69mm. It is used in models where a MECCANO Road Wheel is shown but is some 6mm larger in diameter.
- #42 (Wheel Disc) is metal with 6 holes as shown, and the o/d is 34.5mm.
- #54-60 (Axles) have a dia of 3.96mm, and so are a very loose fit in the bosses (bore 4.3-4.4mm).
- #62 (Plug?) and #64 (Strip Coupling) are plastic.
- #63 (Bulb) is rated at 3.5v and .28amp.
- #79 (Braced Girder) is 25 holes long and the bracing is vertical, and not as shown, see sketch.
- #80 (5x3 hole Flanged Plate, MECCANO style) is incorrectly shown in the Set Layout as being 6x3 holes with 4 flanges.
- Of the 45 models in the manual, 33 are straight from the 1962 series MECCANO manual, except that E/M grabs are fitted to some of the Cranes. The other 12 are similar, but not identical to those of the related ELEKTRISKAIS KONSTRUKTORS 'SKOLNIEKS' Set described in OSN 4, p54.

AMENDMENTS TO MCS (as necessary, depending on version)

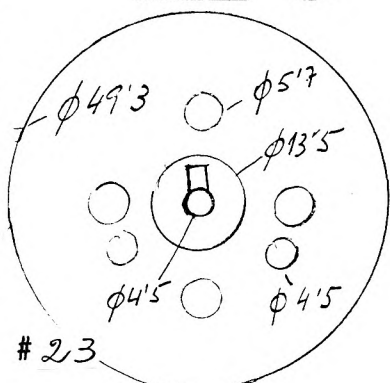
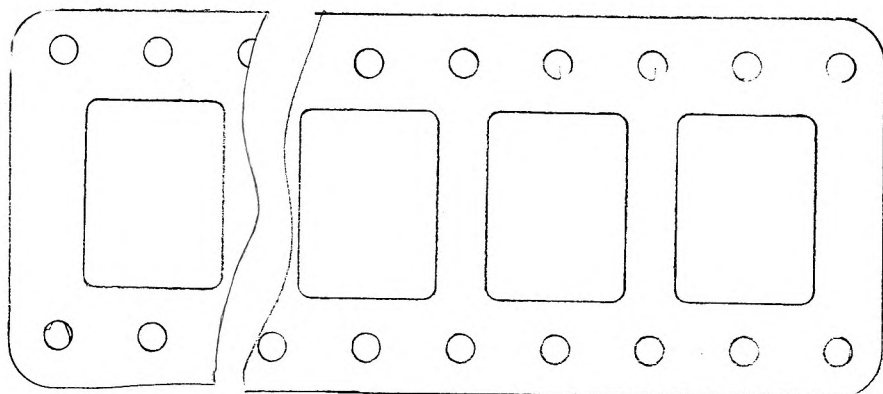
NAME: ELEKTROMECHANISKAIS KONSTRUKTORS. HOLE DIAMETER: Most 4.3mm, some larger. COLOUR: Strips, Girders, Brackets are BZP; yellow Plates, Braced girders, Trunnions, etc; black Flanged and Plastic Plates. Bossed parts are plastic of various colours. PERIOD: Known in 1983. COMMENTS: Bosses have internal recess which could take special Clip for fixing, but no such Clip in Set examined.

AMENDMENTS TO INDEX IN OSN 6. dST: 4.3. DAXL: 3.96.

SUMMARY OF MANUAL. #Name: ELEKTROMECHANISKAIS KONSTRUKTORS. #Details of maker: none. #Dates &/or Ref Nos: long sequence of numbers on p'72' inc 23.09.88. #Page size: 258x203mm deep. #No of pages:

25 holes

all bosses the same



72, of which 3-71 numbered, plus covers. #Language: Lettish and Russian. #Printing: Black on white photos and line drawings. Front cover as in MCS: white with from top, blue, red, black stripes; black lettering except white/blue on the black. #Page Nos of Parts List & highest PN: 11-13, 94. #Page Nos of Set Contents & highest PN: 8-10, 95. #Sets covered: 1 only. #No of models for each set: 45. #Name, Model No, Page No of first & last model of each set: IZGATAVOT SLEDZI, 1, 14; AUTOMASINA PANELU VESANA, 45, 70. #Other notes: see notes on models above. The drawing of the Set in MCS/FB (p4) is p7 of the manual.

NEW SYSTEM - KITANO. A manual for this minor postwar UK system was found recently in a pile of assorted MECCANO material. Models for Sets 00 and 0 are shown and from the Introduction it seems that the #0 was the largest set available. There is no indication of date but Zebra Crossings, which I think were introduced in 1947, are mentioned, and one model is an H pattern Television Aerial which became common in the early 1950s. So KITANO was probably on the market at about that time.

The manual doesn't contain a Parts List or Set Contents. From the models the #00 consists of Strips ranging in length from 2 to 9 holes, and about 10 Nuts and Bolts. The #0 has a few more of the same lengths of Strips, some Brackets (MECCANO #11, 12, 12a, 48), and 30 N&B. The use of a small screwdriver and spanner is mentioned in the Introduction, and both are shown on the front cover, so they were probably included in the Sets, but there were no wheels or pulleys of any sort, and with only about a dozen different types of part this must be one of the simplest UK systems.

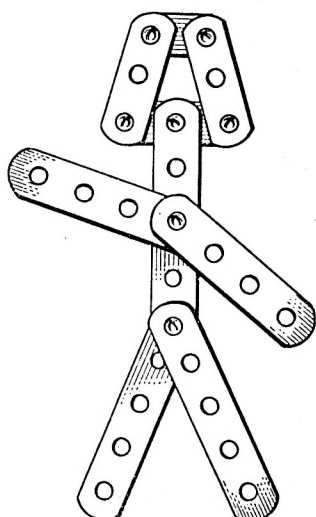
Two of the models from the manual are shown below. All the 00 models are 2-dimensional, and none from either set contain any moving parts except the Swing, and even then no mention is made of locknutting.

There is no indication of hole size or spacing in the Manual, nor of the finish of the parts, the only possible indication of the latter is that the model bridge on the cover is red.

EXTRA PAGES FOR MCS: KITANO: X1.1,2,3/4/6,5. [2 Sheets]

AMENDMENTS TO INDEX IN OSN 6: NAME: KITANO. TYPE: ML. CY: UK. THREAD: SPCE: dST: DAXL:

SUMMARY OF MANUAL. #Name: KITANO. #Details of maker: None. #Dates &/or Ref Nos: MADE IN ENGLAND on front cover. #Page size: 154x118mm deep. #No of pages: 8 inc covers. IFC is p1 and IBC, p6. #Language: English. #Printing: Black line drawings on white paper. Cover is orange with red/black detail and print. #Page Nos of Parts List & highest PN: None. #Page Nos of Set Contents & highest PN: None. #Sets covered: 00, 0. #No of models for each set: 9, 5. #Name, Model No, Page No of first & last model of each set: [No Model Nos] 00: [No name - letter 'A'], 2; MAN, 3. 0: GLIDER, 4; OVERHEAD CABLE PYLON, 6. #Other notes: None.



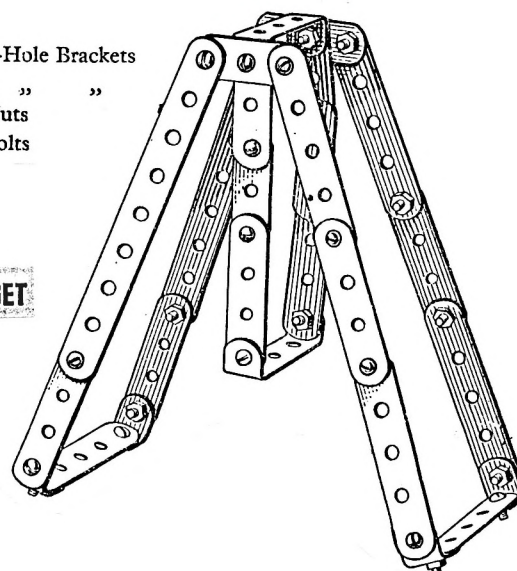
CONSTRUCTIONAL SET

MAN

- 3 5-Hole Strips
- 2 4 " "
- 3 3 " "
- 1 2-Hole Strip
- 7 Nuts
- 7 Bolts

SWING

- 2 9-Hole Strips
- 6 5 " "
- 6 4 " "
- 6 3 " "
- 2 5-Hole Brackets
- 4 2 " "
- 26 Nuts
- 26 Bolts

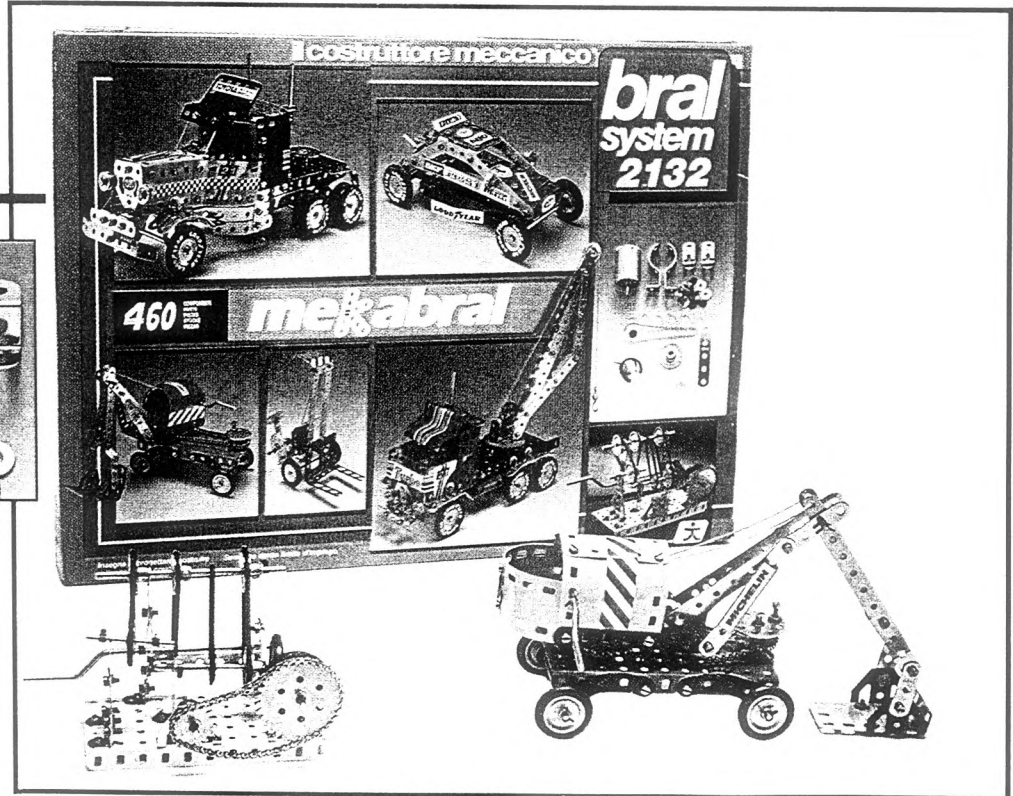
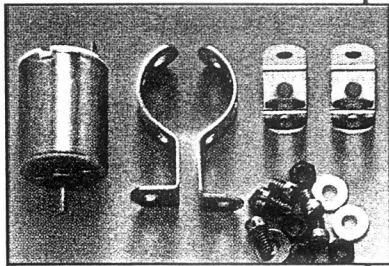


CORRECTIONS TO INDEX IN OSN 6. Several MECCANO entries got muddled, the corrected versions are:

NAME	TYPE	CY	THREAD	SPCE	dST	DAXL
MECCANO MOTOR CAR [1]	CR	UK	6BA	VAR		
MECCANO RADIO SET	ESMP	UK	5/32W	12.7	4.2	
MECCANO SPACE *	ASMC	UK	5/32W	12.7	4.3	--
MECCANO X	TR	UK	5/32W	6.35	4.1	--
MECCANO-MORECRAFT	NM	US	8-32p	12.7x	4.2	

BRAL 1992. Following on from the review of BRAL in OSN 8/142, Brian Rowe has lent me a later Leaflet for what is believed to be the 1992 range of sets. Of the main outfits there are still 5 in cartons and 3 in wooden boxes but the old Set Numbers of 2-9 have gone, replaced by 4-figure Reference Nos of 2021, 2130-3, 2241-3. The illustrations of the wooden boxed sets are identical to those in the 1991 Leaflet (but see below Brian's notes on a #7 Set he bought recently); the smaller sets are shown closed, the lids are basically as before but with certain changes. The Set No is replaced by the new Ref No; and, except in the smallest Set, the steering gear in the panel below the Ref No, is replaced by a small electric motor, and various oddments such as mounting Brackets, and parts to make an ON-OFF switch. The centre panel now contains the word MEKABRAL, and the number of parts in the set, in bold numerals - 250, 300, 390, 460 and 560 respectively.

Art. 2132
460 PEZZI
71 MODELLI



The word MEKABRAL has no doubt been coined to emphasise the inclusion of motors in most of the sets, and the mechanical potential of the sets is demonstrated by the models shown alongside the 2131-3 Outfits in the Leaflet, with simple drives of various types, using Sprockets and Chain in the case of the two larger sets. Two motors are shown in the Leaflet, the A1000 which is the one in the 'carton' sets, and the A2000 which appears to be a similar motor but the drive is through an attached, self-assembly gearbox. Its casing is transparent plastic and it can be fitted with various combinations of yellow, plastic gears giving 6 different reductions of up to 2332.8:1. Both motors are shown powered by 2 AA batteries held in a translucent holder. Brian's #7 Set contains the A2000 type Motor and the Battery Holder, and some of the details given above come from a Leaflet in his Set which shows how the unit is put together. The A2000 Motor is rated at 1.5-6 volts and the output speed of the gearbox is given as 2.6 rpm with the highest possible reduction, although the voltage at which this is achieved is not stated.

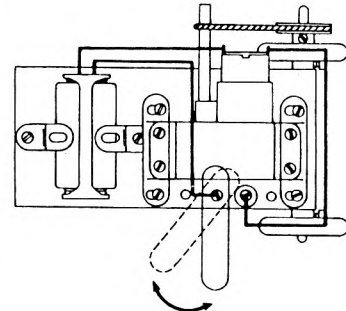
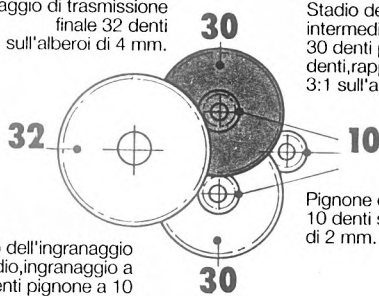
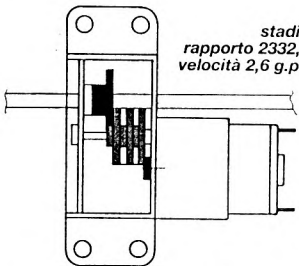
Ingranaggio di trasmissione finale 32 denti sull'alberi di 4 mm.

Stadio dell'ingranaggio intermedio, ingranaggio a 30 denti pignone a 10 denti, rapporto dello stadio 3:1 sull'albero di 2 mm.

stadio 6 rapporto 2332,8:1 velocità 2,6 g.p.m.

Stadio dell'ingranaggio intermedio, ingranaggio a 30 denti pignone a 10 denti, rapporto dello stadio 3:1 sull'albero di 2 mm.

Pignone di trasmissione a 10 denti sull'albero motore di 2 mm.



A range of small 'Kits' is continued but of those in 1991 only the 'jeepkit', 'elekit', and BIG FOOT are included; the additions, all attractive models although a good deal of plate bending is needed to build them, are as follows:

- Art.90063. TRACTOR. 4-wheel tractor fitted with shovel or fork lift.

- Art.90064. SANDY EXPLORER. A 3-wheel motorcycle with twin headlamps.
- Art.90065. LADY CAR. Morgan type open 2-seater.
- Art.90066. CROSS CAR. With rear wing, imitation rear engine, small front and large rear wheels.



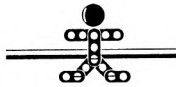
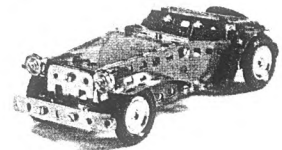
**Art. 90066
KIT CROSS CAR**



**Art. 90065
KIT LADY CAR**



**Art. 90064
KIT SANDY**



**Art. 90063
KIT TRACTOR**



Brian sent the following notes on his #7 Set. The wooden box is nicely made but it contains only two trays, not the four shown in the Brochure, and they are the rather flimsy, plastic recessed type, like the ones in CONSTRUCTION Sets. The Strips (7 sizes, $12\frac{1}{2}$ " down to $1\frac{1}{2}$ "), Angle Girders ($12\frac{1}{2}$ " and $5\frac{1}{2}$ "), and Brackets are nickel plated, and not too bright some of them. There are no gears, only two Mazak Sprockets, 2" and 1", with a short length of Chain. The 2" and 3" Pulleys are red with brass bosses; smaller Pulleys and the 4 small Flanged Wheels are of Mazak with integral bosses. Braced Girders are red and there are a pair of $5\frac{1}{2}$ " and a pair of $12\frac{1}{2}$ ". Metal Plates are painted powder blue with two $2\frac{1}{2}$ "x $2\frac{1}{2}$ ", one $5\frac{1}{2}$ "x $2\frac{1}{2}$ " and two $3\frac{1}{2}$ "x $2\frac{1}{2}$ " Flanged Plates, and two Flanged Sector Plates. Flexible Plates are plastic, some red and some yellow, and include two $12\frac{1}{2}$ "x $1\frac{1}{2}$ ". Other parts are a pair of $5\frac{1}{2}$ " Flat Girders, 4 Windmill Sails, Curved Strips and Trunnions, all in the powder blue; the one Semi-Circular Plate is green; 2 sets of small plastic Tyres, but none for the $2/3$ " Pulleys; two metal Bush Wheels with brass bosses, 5 brass Collars, a Swivel Bearing, but no Couplings; plastic Clips and a black plastic Propellor. There are no Driving Bands and no String. The Motor with Gearbox and Battery Holder are as already described. Compared with current MECCANO the Strips and A/Gs are thinner but the metal Plates are heavier gauge.

There are 3 manuals with the Set, the 2/3, 4/5/6, and #7, so denoted although it seems that these Set Nos are no longer used. Brian lent the #7 and it was rather disappointing, 16 models, most of them quite small, and only one or two that used anything like the full range of parts in the Set. On the whole they are quite attractive to look at, but none include any but the simplest mechanical movements, and none use the Motor, or the Sprockets, except as the base of a gun. There is one view of each model, no Parts List, and it's not in several cases clear how the model is to be made. There is a note in the back of the Manual, in Italian only whereas the other (brief) text is in 5 languages, that the models are only meant to show the way and give ideas, but this isn't I think altogether achieved. For example the Flanged Wheels are only used in a decorative way, as headlights for instance.

The contents of the #7 Set described above is clearly less than given in OSN 3/30, not only are there

now no Gears or Coupling, but the number and variety of other parts seem to be reduced. Some differences could be due to omissions when the Set was packed, but since no Set Contents is provided there is no way of knowing what should be in it. I note in passing that the first model in the #7 Manual, a Tractor, needs two Tyres for its 2" Pulley rear wheels, and neither Brian's Set, nor the OSN 3 #7, includes them. The Motor/gearbox is a plus of course in the new #7.

SUMMARY OF MANUAL. #Name: BRAL. #Details of maker: BRAL, Via P.Lomazzo,34, 20154 Milano. Italia. #Dates &/or Ref Nos: None. #Page size: 240x160mm deep. #No of pages: 20 inc covers, all unnumbered. #Language: Italian, French, Spanish, English, German. #Printing: Black line drawings, with some halftone shading, on art paper. Cover is red with varicoloured parts on light blue squares, and white lettering plus black BRAL. #Page Nos of Parts List & highest PN: None. #Page Nos of Set Contents & highest PN: None. #Sets covered: #7. #No of models for each set: 16. #Name, Model No, Page No of first & last model of each set: [Models have no nos or titles] Tractor, 3. Bulldozer, 18. #Other notes: Manual was in a 1992 Set, but shows outdated maker's name and address.



AMENDMENTS TO MCS: SETS: add "In 1992, Standard Sets #2021, 2130-3, 2241-3; plus 7 small Kits called jeepkit, elikit, BIG FOOT, TRACTOR, SANDY EXPLORER, LADY CAR, CROSS CAR."

MOTORS: Add: "Introduced 1992: A1000 3v Motor and A2000 3v Motor with Gearbox."

FOOTNOTE ON 1992 PARTS Since this piece was written Brian has received from a Dutch friend and passed on, a photocopy of an Illustrated Parts List later than the one mentioned in OSN 8. This includes all the parts in the MCS Pages X1.3/4g-h plus some others, obviously added after the list was first prepared; all of these are shown below. The Motor A1000 is not mentioned. Notice that although the List is nearly all in Italian the use of English (END) and Dutch? (GATS = holes) in the written additions. Perhaps last minute updates by Brian's friend.

<p>3166 2 GATS 3167 3 GATS 3168 37 GATS 3169 47 GATS</p>	<p>3047 Piastrina triang. PL</p>	<p>3185 A</p>
	<p>3049 Ruota Camion</p>	<p>Motorduttore A 2000</p>
<p>3162 2 GATS 3163 3 GATS 3164 5 GATS 3165 6 GATS</p>	<p>3050 Squadretta</p>	<p>3211 Caldaia 3211 A END</p>

SCIENTIFIC BOUNDOS - COMMENTS ON MCS. Under COMMENTS in the MCS entry it is said that the PNs and models are similar to those of MECCANO. This is true but there is an even closer resemblance to 1920s MÄRKLIN. The drawings of the models are identical line for line to those in a 1920 MÄRKLIN manual and the same is true of the parts: the only exception is #44 which was still the MECCANO shape in 1920, the next list to hand, for 1931, shows the revised pattern, exactly as in the S B List.

Was this then a case of a Dutch manufacturer copying MÄRKLIN, or was it simply MÄRKLIN using a second name for its product in Holland, and perhaps elsewhere. I would guess the latter but only because there are no Titles, Parts Lists or Instructions shown for the S B models, whereas there are in the MÄRKLIN manual, and this might mean that they are grouped together for all the models elsewhere in the manual, a method sometimes used for foreign language manuals, so that only the text part had to be altered for each country.

AMENDMENTS TO MCS (as necessary, depending on version)

COMMENTS: Replace by, 'The only information available is shown. The parts, their numbering, and the models are identical to 1920s MÄRKLIN.'

FORGEACIER There was an article on this 'DIY' system in INFOS JOUETS No 13 which adds a little to the MCS data. My thanks to Jean Estève for permission to use his material.

• The date the system was launched is given as 1932-33. An ad reproduced in the article shows an address from which a brochure could be obtained (à titre absolument gracieux), see below.

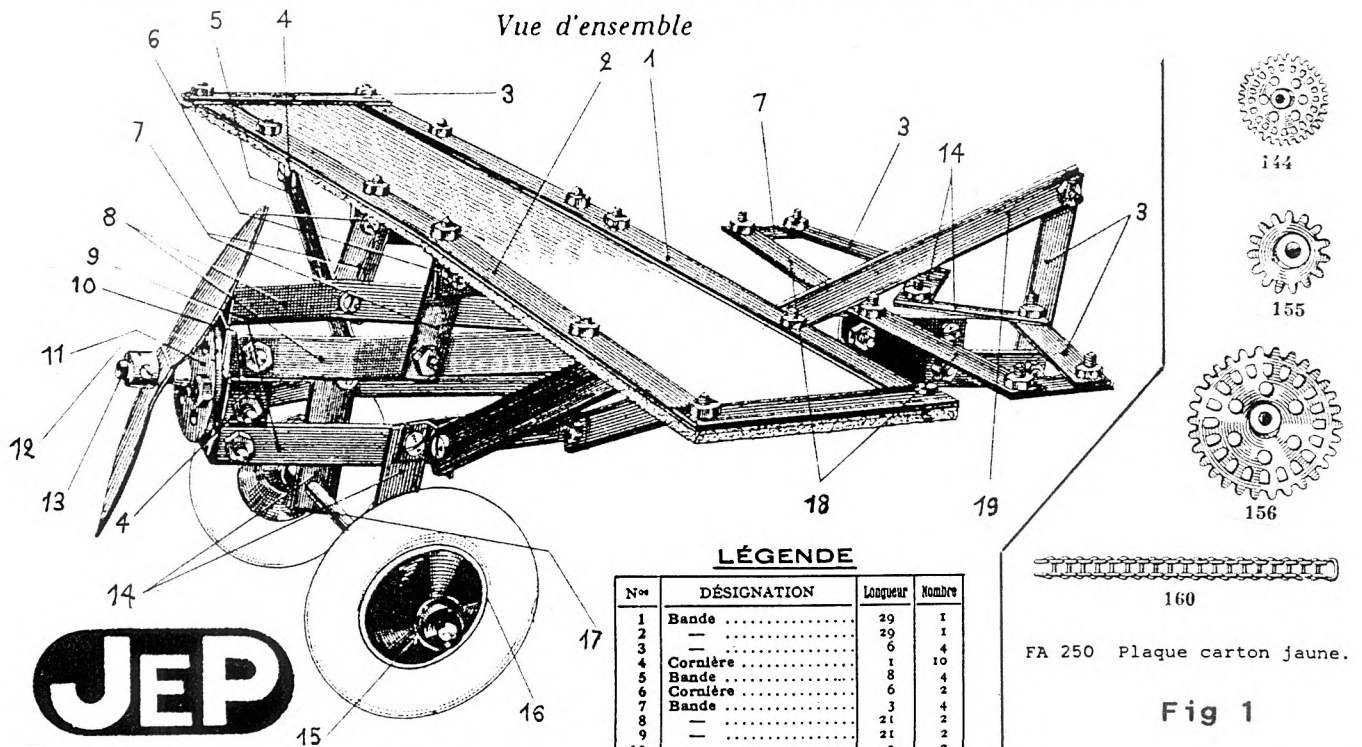
• The Illustrated Parts shown, similar to those on p3/4a of MCS, include 2 Sprocket Wheels and Chain, and the 46 tooth Gear, #144, is slightly different to the MCS one. Also #FA 250, Yellow Card Plate (Plaque carton jaune), is listed though not illustrated. (It is described as 'Name plate' on p3 of MCS). These parts are shown in Fig 1.

• The Tools are listed with their PNs, and as well, spares for them, with illustrations, see Fig 2. The Aeroplane below is also from Infos.

• And a couple of points about the MCS p3. The Parts 1-17 in the first column are probably those needed to make a model, cf the LÉGENDE below. It is clear from INFOS that the parts shown underneath, FA 120-124, are the basic materials and the translation into English has gone a little wonky; in order, each is a Pack containing: 6 Strips, 4 Angle Girders, 3 Axle Rods, 25 Nuts and Bolts, 100 Eyelets. The French names for these are at the top of p3/4a.

AMENDMENTS TO MCS (as necessary, depending on version)

PERIOD: 1932 - ? MANUFACTURER: add address: 39, Boulevard Beaumarchais, Paris.



LÉGENDE

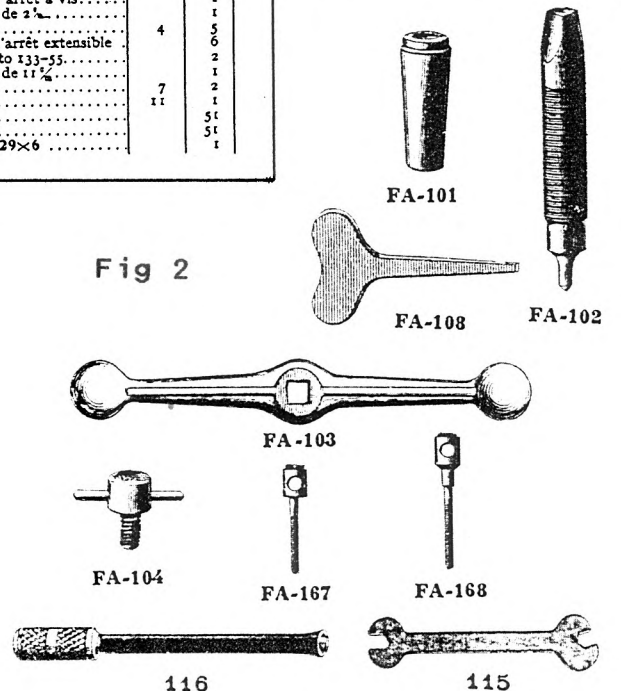
N°	DÉSIGNATION	Longueur	Nombre
1	Bande	29	1
2	—	29	4
3	—	6	10
4	Cornière	8	4
5	Bande	6	2
6	Cornière	3	4
7	Bande	21	2
8	—	21	2
9	—	3	2
10	—	1	1
11	Roue barillet	1	1
12	Bague d'arrêt à vis	1	1
13	Tringle de 2 1/2	1	1
14	Bande	4	5
15	Bague d'arrêt extensible	6	6
16	Roue auto 133-55	2	2
17	Tringle de 1 1/2	1	1
18	Bande	7	2
19	—	11	1
	Vis		51
	Ecrous		51
	Carton 29x6		1

MACHINES SEULES

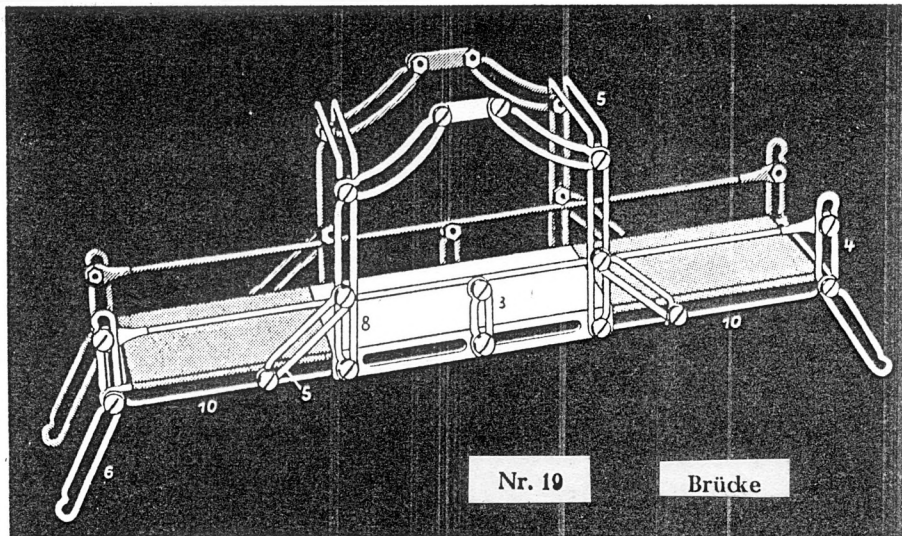
- FA 100 Poinçonneuse, Perceuse.
- FA 110 Cisaile complète avec support.
- FA 113 Plieuse-cintreuse.
- FA 114 Petite cintreuse à main.
- FA 119 Machine à poser et enlever les oeillets. avec 100 oeillets.

PIECES DETACHEES DE MACHINES

- FA 101 Pour perceuse: Matrice de rechange en acier.
- FA 102 Vis-poinçon de rechange.
- FA 103 Balancier de rechange.
- FA 104 Vis de fixation sur le socle.
- FA 107 Bâti seul.
- FA 167 Pour riveteuse: Vis à sertir seule.
- FA 168 Vis à cisailier seule.
- FA 105 Règle gabarit.
- FA 116 Clé à tube.
- FA 115 Clé plate.
- FA 108 Alésoir en acier trempé.



STABA. This is about the STABA with the unique Strips made of an 'outline' of wire, see the model (x.5) below; these are the 'fluted building sticks' mentioned in the Australian ad in MCS. It's called STABA (1) in MCS/FB and STABA (2) in /NZ. The FB version shows excellent illustrations of all the parts and also the contents of Sets 00 to 4. Recently Harry Fell showed me a manual for Set 1 and some parts which had come with the manual. They appear to be earlier than those in MCS/FB because the Flanged Plate, #90, has no perforations in the top surface. The PNs too are different, and only the 35 parts needed for Set 1 are listed. The contents of Set 1 in MCS are basically the same as in Harry's manual but there are a few extra parts and more Nuts and Bolts; and the Pulleys 22/40K and 24, and the Fixing Fish, #68, are new parts not listed in the earlier manual.



Bauteile:

2 STABA-BAU-Stäbe	3 cm
4 STABA-BAU-Stäbe	4 cm
4 STABA-BAU-Stäbe	5 cm
4 STABA-BAU-Stäbe	6 cm

4 STABA-BAU-Stäbe	8 cm
4 STABA-BAU-Stäbe	10 cm
4 STABA-Bogen-Elemente	5 cm
4 STABA-Doppel-Winkel	5 cm
2 Große Laschen	
1 Grundplatte	

4 Verbindungshülsen	
24 Normalschrauben	
8 Kurze Schrauben	
32 Muttern	
2 STABA-BASTEL-Stäbe	
2 Metall-Folien	

A few notes on the parts using the MCS Part Numbers:

- The short Strips 1/20 and 1/30 are made from .074" dia wire; all others use a rectangular section, typically .083 deep x .068" wide. Both sides have serrations, about ½mm apart, normal to the length, as shown in MCS. The exception is the Curved Strip, #6/50, which contrary to the illustration in MCS is smooth, and is shown thus in the No 1 manual. The Strips are 8-9mm wide and the ends of the wire are butt jointed and welded together. The lengths quoted in the Parts List are overall.
- The only use shown for the long length of the rectangular wire, #9, is as hand rails for the Bridge and the ends simply push into the Connecting Pieces, #59.
- The hole spacing varies from part to part, the 3 holes in the flanges of the Flanged Plate are 45mm apart; those in the Links 65/21, 65/30, called Fishes in the MCS List, are about 12 and 21½mm respectively; and in the 35mm dia Bush Wheel, #20, they are 12.5mm from the centre hole. The shorter Link, and the Angle Bracket formed from it, is 7.5mm wide; the longer ones are 8.2mm.
- The Rods 15/60, 15/80 have about 8mm of thread at each end, and in between the diameter is 3.48mm.
- All threads are M4 and the Collar and the Bush Wheel, the only bossed part, are single tapped. Their bores are 4.06mm. Holes in the various parts are either 4.1 or 4.3mm.
- All parts are nickel plated except the Flanged Plate, which is painted red, and the following that have a black metallic finish: Brackets 11/11,16; 13/15; 65/21,30; Long Bar 9; Bush Wheel 20 (brass boss); Washers 58. The 'Stops' 60 and the Tyres 130/2221 are of black rubber. The Tyres are about 28mm dia when fitted to their 21mm Pulleys, #22/21.
- The hexagonal Nuts measure 7.1mm A/F; as in MCS the various lengths of Bolts have different heads, those in the parts seen are Round, 6.8mm dia for the short 6mm length; 8.1mm Domed Cheese for those 10mm long; and 7.0mm flat Cheese for 20mm.
- Many of the models in the manual show Metal Foil (Metall-Folien) used as a covering material, cut to size from the sheets supplied in the outfit, and with the ends bent round the Strips to hold it in place. None was with these parts but in the manual the Foil is said to be coloured and can be bent by hand, so it could be anodised aluminium.

SUMMARY OF MANUAL. #Name: STABA. #Details of maker: STABA G.m.b.H, GELSENKIRCHEN. #Dates &/or Ref Nos: Wichelhoven-Druck, IserhoIn (on p20). #Page size: 206x146mm deep. #No of pages: 20 plus covers (pp1,20 unnumbered). #Language: German. #Printing: Blue on cream. Models are line drawings, cream on blue background. Covers light green. FC has black printing except STABA and I in red. #Page Nos of Parts List & highest PN: 5-7,35. #Page Nos of Set Contents & highest PN: 5,35. #Sets covered: #1. #No of models for each set: 20. #Name, Model No, Page No of first & last model of each set: Tisch,1,3; Lastwagen,20,18. #Other notes: None.



AMENDMENTS TO MCS (as necessary, depending on version). HOLE DIAMETER: 4.1 and 4.3mm. HOLE SPACING: Varies. PARTS: 83. COLOUR: Nickel plated Strips, red Flanged Plate, small parts black metallic. NUTS: 195 in Set 4. MANUFACTURER: STABA G.m.b.H., GELSENKIRCHEN. Germany.

AMENDMENTS TO INDEX IN OSN 6: dST: 4.1*.

MORE STABA. This is about the STABA that is called STABA (1) in MCS/NZ and (2) in /FB. The NZ Data Sheet mentions that STABA Sets A, B and C date back to the 1920s, made by Gebr. Ehrlich, and gives for the 1960s, Sets A, B, C, F, G, H, O, R1, R2, and R3, made by Otto Honseljau; Frank Beadle lists Sets A and B for the 1950s and also mentions the earlier phase, calling it STABA (3), with 4 sets, one of which was B, made by Ehrlich in the same factory that was used in the later period, in Erfurt [East Germany]. In fact one of the models he shows for the Ehrlich phase is marked Set C. No information is given in either edition of MCS on the parts or set contents.

Recently 4 STABA manuals came my way and these allow some of the gaps to be filled. Their covers all have the same format and colouring and their printers' reference nos end in /67 or -66, so they may be from the 1960s. They are for Sets A, B, C, and F; all but the A use the circular STABA logo shown in MCS on the inside pages, but on the covers, and throughout A, a different, perhaps more modern, chevron type motif is used (right). The name on the back cover of all the manuals, in large letters, presumably that of the manufacturer, is KARL TEUTEBERG KG - 59 EISENACH, so it will be assumed that these manuals belong to a STABA phase later than any mentioned in MCS, and that the A manual with the 'chevrons' throughout, and with a Ref No ending in /67, is the last of the 4.



There may not have been many changes in the Sets, or at least not in Sets A-C, down the years. The 2 models shown in MCS/FB made from Ehrlich Sets B and C are still shown in my B and C manuals, and Set B is much the same size - it is said in the /FB p7 to contain 492 parts and the Karl T one contains 437. Reverting to the manuals, none of the models for the sets are particularly modern looking and all could have graced an up to date prewar manual, but one of the covers shows a helicopter of for sure, postwar design.

In the back of each manual there is a list of sets as follows:

- Staba A. Basic set. Staba B and C. Add on sets.
- Staba F. Vehicle set. [F stands for Fahrzeugbaukasten].
- In two of the manuals: Staba G. Gear set [Getriebekasten, perhaps Gearbox set] with electric motor. Staba G1. Flanschgetriebe [Flanged Gearbox?] with 4,5v electric motor and reversing switch. Staba G2. Flanschgetriebe with 4,5v electric motor for Fernsteuerung [remote control?]. In the other two, including the A: Staba I. Small Gear[box] set with 4,5v electric motor. Staba K. Large Gear[box] set with 4,5v electric motor.
- Staba Liliput. For the small beginner.
- Staba R1. 4 Auto wheels fitted with rubber tyres. Staba R2. 2 Tractor wheels fitted with rubber tyres. Staba R3. Wheel set for various large tyres [Räderbaukasten für verschiedene Reifengrößen]. [R3 is not in the manuals that list I and K].
- Staba V. 'Covering' Plates set. [In the I/K manuals: Coloured PVC Covering Plates and Strips]. [V for Verkleidungsplattenkasten].

So those are the sets, now for some details of Sets A,B,C and F from their manuals. The illustrated parts list/set contents will be included in Extra MCS Sheets, listed overleaf. Set A has only 32 N&B but includes 28 Strips from 3 to 20 holes long, 17 Brackets/DAS, a 5x11 hole Flanged Plate, 6 30mm Pulleys, and 2 60mm Discs. The Pulleys have 2 holes in them and can be bolted to the Discs to provide a hub; they can also be bolted together to allow 2 Axles to be joined. All the PNs have the prefix A, up to A23; in Set B there are 13 new parts which continue the numbering but start with B, so the last is B36. Set B includes more A parts as well as the B variety; the latter include 4 each of 11 and 20 hole A/Gs, 2 Flanged Sector Plates, 8 each of 2 sizes of Half Pulley (TRIX like), 12 42mm Discs, and 4 different lengths of Screwed Rod. There are also 130 Bolts and 170 Nuts, the extra Nuts because the Screwed Rods are used extensively in the models as Axles with Pulleys etc bolted on to them; the Set A models use normal Axles. Discs can be bolted to the larger Half Pulleys to form Flanged wheels, again like TRIX, and many of the Basic Constructions at the front of the manual look very TRIX like, including gears made from Bolts around the periphery of the Discs. Another use for one of these 'toothed' discs is as a ratchet wheel, I don't remember that in the TRIX manual. It would be interesting to know if STABA came before TRIX or vice-versa. The Set B models are mostly quite attractive but generally quite simple, although the Racing Car shown in MCS/FB does have proper steering.

Set C has extra A and B parts including 80/50 N/B, and 10 new ones with the prefix C, all but one of which (Spring Cord) are akin to Trix. There are 3 'plate' Gears, up to 36mm dia, and similar size ones fitted with bosses. The smallest is composed of 3 of the plates held together by the boss, and the middle size has 2 layers, (cf some of the small ERECTOR gears). There is a TRIX style Worm, Rods with Screwed Ends, and a Screw Coupling. The 8 models in the manual are of medium size and the use of gears in most of them allows a degree of mechanical complexity. None are motorised and although one or two would be improved if fitted with some plating, they seem to me generally good of their type.

[Cont >]

Set F is a complete set in its own right and includes nearly all the prefix A and B parts; plus a few of C, not Gears, but Rods with Screwed Ends and the Coupling; and Parts F1 to F5, Formed Strips for mudguards and front bumper, a formed Seat, a small Windshield for the racing cars, and a pair of parallel jaw Pliers. And for wheels, 4xR1, Autorad, and 2xR2 Traktorrads; R1 is a fat rubber ring on a 30mm Pulley, and R2, a fat ring on a much larger Pulley, its size isn't given but it might be say, 75mm. There are 160/125 N/B and 66 Strips in the set, with 12 models in the manual including the Motorcycle and Sidecar shown in MCS. One or two light commercial vehicles are included but most of the models are similar in essence to the one shown opposite, with the shape suggested by suitable curved strips. That is why pliers are supplied, to help bend the Strips into the sometimes tortuous curves needed. The shapes needed for each model are drawn out, full scale in the back of the manual. The only models more or less fully 'clothed' are a nice Tractor and a Luggage Truck; and there's a late 1950s looking car on the front cover. Steering gear is provided where appropriate, the front and back wheels of the Luggage Truck are linked to move in opposite directions, and leaf springs are modelled on one or two models, but no other mechanical detail is included.

Now a few comments on the parts:

- The Strips and Brackets are shown with fully rounded ends; A/Gs and the Flanged Plates have square corners. There are elongated holes in the sides of the DAS and Flanged Plates.
- The hole spacing isn't stated and scaling from some of the drawings gave 11.5, 12.1, 12.5 and 12.7mm, take your pick. By the same method the hole diameter was between 3½ and 4mm.
- Many of the circular parts have 2 diametrically opposite holes near the centre hole/boss.
- Hex Nuts are shown and the Bolts have cheeseheads, sometimes with a slight taper.
- The Gear teeth look normal, not the TRIX type. As shown the 3 gears have 14, 27, 41 teeth, which gives a DP of about 30, or Mod .84. The gears are shown meshing at right angles but there are no slots for meshing in the face of the largest Gear, as in the 40t TRIX Wheel, which has of course a much larger diameter. The two smaller Gears without boss are shown with one hole in their face, about halfway out from the centre hole.
- No motor is mentioned in any of the manuals but one can just be seen in the Helicopter on the front of the B manual. It will be reproduced as an Extra MCS Sheet.

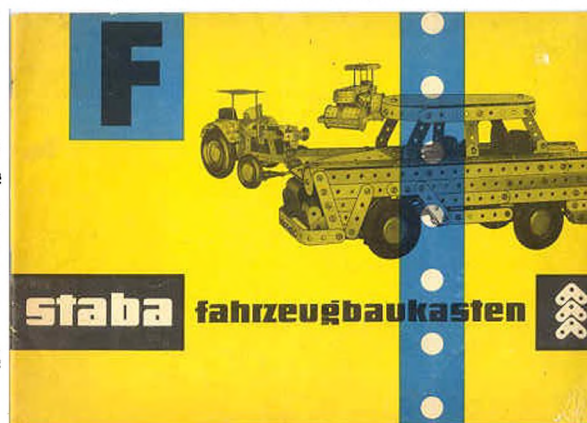
SUMMARY OF MANUAL. #Name: Staba. #Details of maker: KARL TEUTEBERG KG - 59 EISENACH. #Dates &/or Ref Nos: Rc 684/67 V 3/15 - 550. #Page size: 147x210mm wide. #No of pages: 32 plus covers. #Language: German. #Printing: Black line drawings. Cover yellow with blue band; black print except white Staba on black. #Page Nos of Parts List/Set Contents & highest PN: 3-5,A23. #Sets covered: A. #No of models: 30. #Name, Model No, Page No of first & last model: Sackkarre,1,7; Leuchtturm,30,31. [Only changes from above are recorded below]

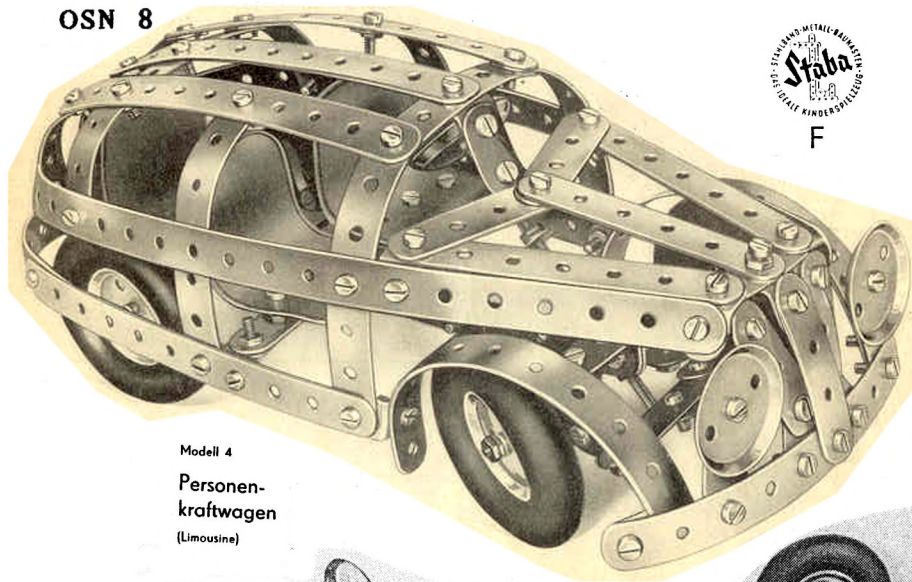
SUMMARY OF MANUAL. #Dates &/or Ref Nos: V 15/17 Ro 402/67. #No of pages: 56 plus covers. #Page Nos of Parts List/Set Contents & highest PN: 8-10,B36. #Sets covered: B. #No of models: 22. #Name, Model No, Page No of first & last model: Roller,31,11; Turmdrehkran,52,53.

SUMMARY OF MANUAL. #Dates &/or Ref Nos: V15-3 Rc 210-66. #No of pages: 48 plus covers [1-32 numbered]. #Printing: As above but also photos of models. #Page Nos of Parts List/Set Contents & highest PN: 1-2,C44. #Sets covered: C. #No of models: 10. #Name, Model No, Page No of first & last model: Riesenrad,53,3; Gattersäge,62,30.

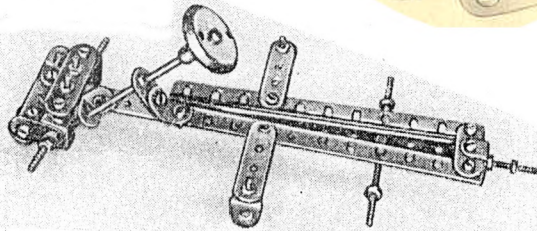
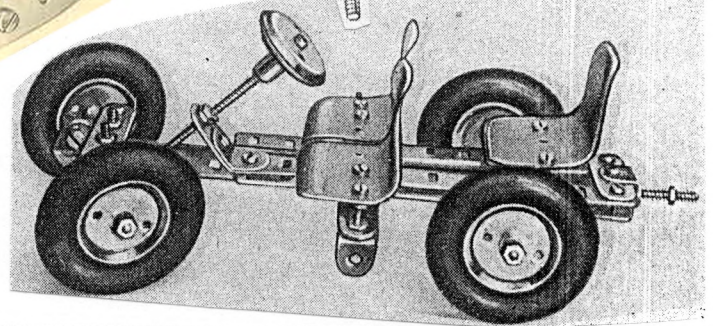
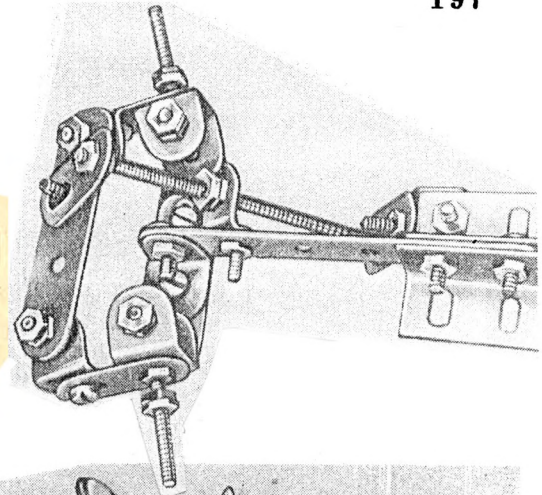
SUMMARY OF MANUAL. #Dates &/or Ref Nos: V-14-7 67. #Page size: 210x298mm wide. #No of pages: 44 plus covers. #Printing: As above but all illustrations are photos. #Page Nos of Parts List/Set Contents & highest PN: 4-6,F5. #Sets covered: F. #No of models: 12. #Name, Model No, Page No of first & last model: Motorrad,1,7; Großer Rennwagen,12,34.

EXTRA PAGES FOR MCS: STABA (2): X1.1,2a,3/4-b,5-a,6. [4 Sheets]. NB. STABA (1) for MCS/NZ.

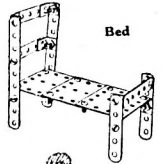




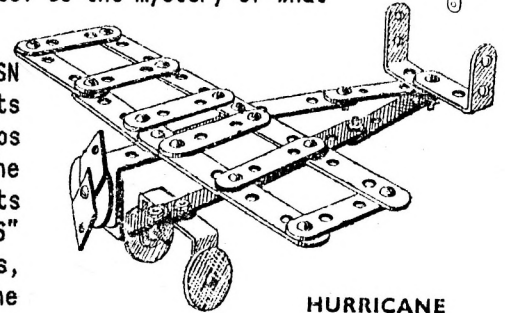
Modell 4
Personen-
kraftwagen
(Limousine)



MYSTERY PART No 1. Remember that ERECTOR 5x4 hole Plate [OSN 3/47], Brian Johnson kindly sent photocopies of what I take to be a leaflet about it - the cover, with reference Form M973 on it, mentions no specific set, just 'Make Your Own Toys With ERECTOR'; inside are 'A Few Models Made With One Erector Set', and others that need 2 or 3 Sets. I've chosen one [right] that needs 3 of the Plates. So the mystery of what the Set was called remains, if indeed it ever had a name.



MYSTERY PARTS NO 18. Those Strips with 3/8" spaced holes (OSN 7/156) have been identified from a manual and some LYNX parts with it, as being almost certainly LYNX. All the short Strips shown in the manual models (as in the one opposite), are the type with no centre hole, although in the illustrated Parts List (see below), normal pitch is shown. As can be seen the 6" Strip is also shown with 1/2" spacing but the 12" has 32 holes, that is exactly 3/8" pitch. Both the 6" and 12" Strips with the manual have the 3/8" spacing but the holes in 2" Strips are equispaced, 1/2" apart. Also the 3/8" pitch holes are 3.5mm dia but those at 1/2" are the normal, larger LYNX size. So it looks as if all LYNX Strips may well have originally had the shorter spacing/hole dia, with a gradual change to the later standard. No date is shown in the manual but it's probably soon after WW2, with models of a Sherman Tank and a Dakota (UK name for DC3/C47). Actually whoever put the manual together didn't have much idea about aircraft, the Dakota is shown as a biplane with 4-bladed propellers, it looks more like a Vickers Vimy, and that Hurricane has twin fins and a shoulder wing. There was also a LYNX competition entry form with the manual, closing date Jan 1948.

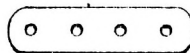


HURRICANE
(Model No. 7)

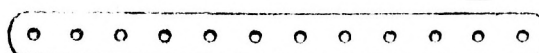
- 20 2 in. Strips 4 1/2 in. Bolts
- 6 Brackets 19 1/4 in. ...
- 2 Diamonds 24 Nuts
- 3 Washers

Prize-winning model, constructed with No. 2 Outfit, by Master T. Fynes, Belfast

"LYNX" PARTS

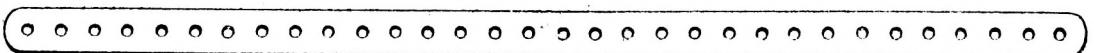


2 in. STRIP No. 21



6 in. STRIP No. 22

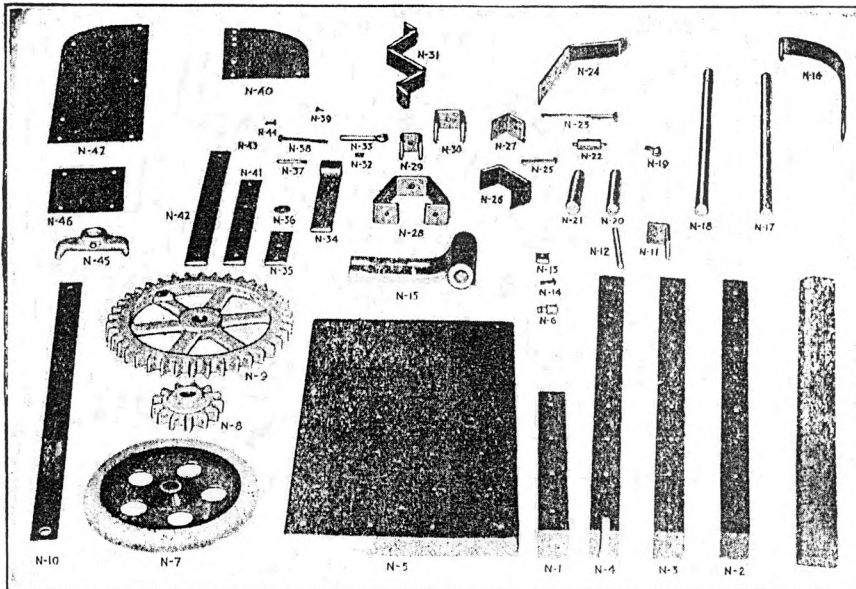
12 in. STRIP No. 23



AN EARLYISH STOKYS No.1 SET. This Set, more or less complete, included a 0-2 Manual with an earlier cover than one bought about 1972. The Set Contents are the same in the two but the early one does not show such a wide range of parts in the Illustrated Parts section, no large diameter or helical gears for example. The Chimney, #108, (see OSN 3/31) is there though. On the box lid is a label saying 'New, increased contents' so this set was certainly not one of the earliest outfits. Many of the models in the manual are different to those in the later one. The most interesting difference is in the parts, compared to some dating from, again, about 1972. The web of the Strips is .021", much thinner than the .036" of the later parts; many of the Brackets are unfinished aluminium, not anodised; and the (green) Flexible Plates are made of fibre (like the 1934 MECCANO ones), instead of plastic.

NOUVEAU JOUET à ROUES GILBERT.

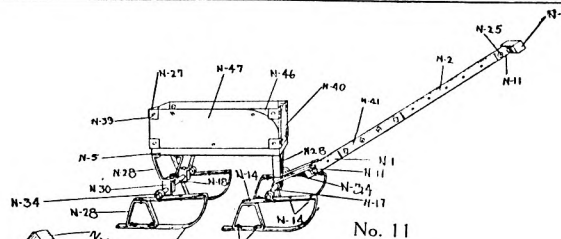
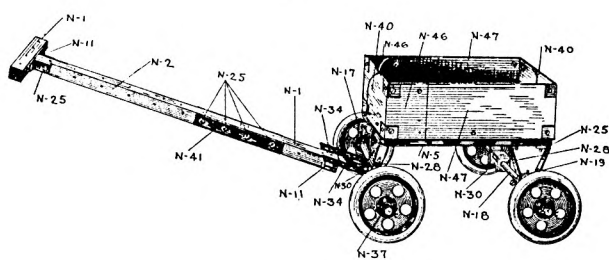
Gaston Marette sent a photocopy of the manual for this set; I had never seen it before and basically it consists of wooden members and base plate, with metal fittings bolted to them to hold them together, and to carry the Wheels, Sled Runners, etc. There are also some metal panels. The illustrated Parts opposite are blurry but may give some idea of the 48 different parts in the set. For the MCS Sheet this is blown up to 4 times the area and may be clearer, but many of the parts are shown most clearly in the illustrations of the models. There is no positive indication of their size except the length of the Bolts, and judging from those, Parts N-1 to N-4 are about 1" square, and the longest of them about 16". Then the basic hole spacing would be 2". The Wheels, said in the text to be made of steel, with presumably rubber tyres, would be 5" or so in diameter, and Model #15, a 3-Wheel Scooter (see MCS Sheets) would be something less than 30" overall. It must have been tempting for a youngster to try scooting on it for real, but whether such use was intended isn't clear from the manual although some emphasis is laid on the need to lubricate the bearings. The Axles appear quite substantial but the overhang of the Scooter's rear axle outside the central bearing, looks as if it might cause problems.



The manual is all in French and the Canadian address of The A.C.GILBERT-MENZIES CO. is given as well as the Gilbert New Haven one. Gaston remarked that the translation from the original American was not very good, and there are quite a few spelling errors - for instance, Nouveau is spelt Noveau at the top of each page. Also ERECTOR appears as EREKTOR in a plug for the standard sets, was that a mistake, or was it a variant used elsewhere? I'd also like to know the English name of the set, can anyone help? Gibert's New Wheeled Toy doesn't sound very snappy. There are 13 models in the manual including 2 and 3 wheel Scooters, 2 and 4 wheel Carts, variants of these fitted with Skis, and a Hand Lever Driven Cart. The only model without wheels is a Snow Shovel. There is no indication of the date of the set except Copyright 1919 on the front of the manual.

Page 8

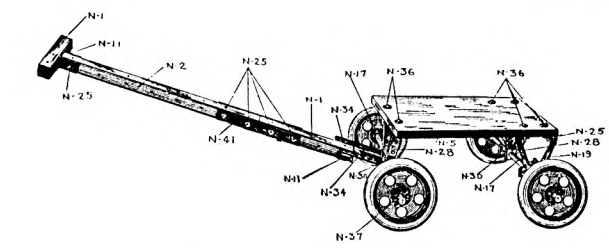
Wagons No. 9.



No. 11

Voiture—Traineau. Remarquer que la Voiture—Traineau est batié tout comme la Voiture excepté que les Coulants au lieu des Roues sont placés sur les essieux. Voir No. 2, 1ère. page.

Scale: x.7



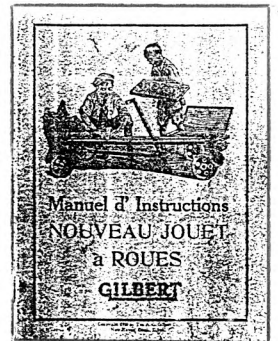
Voitures à surface aplatie No. 10.

Now a few notes on the parts using names I have coined: • A Wheel when loose on the Axle is located by Split Pins on either side of it; it may be driven by a Driver N-45, which is fastened to the Axle

by a Grub Screw and engages in one of the 5 large holes in the Wheel's face. The Ski Runner N-16, bolts to the Formed Bearing Bracket N-34, which fits onto the Axle instead of a Wheel. • There are 2 sizes of N&B, the standard ERECTOR 8-32 for most purposes but also 14-20x3/4" Bolts (.242" dia), with square Nuts, to hold some of the metal brackets together. The Grub Screw in N-45 also has this larger thread. • The 2 Gear Wheels appear from the Illustrated Parts to have 13 and 39 teeth, and the larger one has a diameter of some 6". They are used in only one model, the Geared Hand Lever Cart (entitled Expédiateur Engrené but Expédiateur isn't in my dictionary). This model has several points of interest and is included in the new MCS Sheets. • The wooden part shown bottom right of the Ill. Parts has no PN and doesn't seem to be used in any of the models. • The metal parts are probably quite substantial, most of the Strips and Brackets are about 1" wide and look up to 1/8" thick in the illustrations.

FOOTNOTE. Gaston wrote again to say that he has now seen one of these sets in the Toy Museum at Mechlin (Belgium). A model from the set is displayed made up and the remaining parts are in the original wooden box. The basic hole spacing is, as surmised above, 2". In addition he sent a p/c of a page from a book called The Wonderful World of Toys, Games and Dolls, kindly supplied by Mr Marc Wellens of the Museum. This shows the Set on a page from a 1919 Sears Roebuck catalogue under the name GILBERT NEW WHEEL TOY. Since this was no doubt the original name I shall use it as the MCS title. Also Peter McCall has showed me a 1923 GILBERT YEAR BOOK which includes this Set, along with two other smaller Outfits. Full details of these items will be included in the Extra MCS Pages.

SUMMARY OF MANUAL. #Name: NOUVEAU JOUET à ROUES GILBERT. #Details of maker: THE A.C.GILBERT COMPANY, NEW HAVEN, CONN., E.U.d'A. AU CANADA: THE A.C.GILBERT-MENZIES CO., LIMITED, TORONTO, ONT. #Dates &/or Ref Nos: Copyright 1919 on front cover. #Page size: 134x177mm deep. #No of pages: 16 plus covers. #Language: French. #Printing: Line drawings of models. #Page Nos of Parts List & highest PN: 15-16, N 48 (Order No. 2642). #Page Nos of Set Contents & highest PN: None. #Sets covered: One Set only. #No of models: 13. #Name, Model No, Page No of first & last model: Glisseur à Trois Roues, 15, 3. Pelle à Neige, 5, 14. [models are not shown in order of Model Nos; there is no #6, and #15 is also labelled #8]. #Other notes: Details taken from photocopy.



EXTRA PAGES FOR MCS: GILBERT NEW WHEEL TOY: X1.1,2,3,4,5-a,7-a. [4 Sheets]

AMENDMENTS TO INDEX IN OSN 6: NAME: GILBERT NEW WHEEL TOY. TYPE: NM. CY: CA. THREAD: 8-32, 14-20. SPCE: 50.8x. dST: DAXL: . Also on p123 add NOUVEAU JOUET à ROUES GILBERT as Alternative French Name.

QUERIES.

14. Malcolm Hanson answered the query about ALCON. He has a Set and the parts are round plastic Strips, thinner than a matchstick, which push into aluminium Couplings of various types, to produce 3-dimensional frameworks.

15. The essence of MOBILLO is simplicity, only 3 elements, Rods, Wheels and U Clips; and only 8 different parts altogether, 5 lengths of Rod, the Clip and 2 Wheels. But why 2 Wheels? One is 30mm in diameter and the other is 33mm, not a big difference, and from the material in MCS the diameter appears to be the only difference between them. No question of one with boss and one without; it is possible that only one of them has a pulley groove but then the one without might be thought a luxury in this austere system. So why 2 Wheels?

16. I have a LYNX manual, large format about 15"x8", which has the contents of sets on the inside front cover. Unfortunately half of it is missing and if anyone has it intact please let me know. The smaller LYNX manuals sometimes have a Reference No on the front cover or on the page on which the parts are illustrated. I have ML.1A, MB 4, M.B.6 AND M.B.6A, and I'd be pleased to hear of any others.

SMALL ADS.

WANTED. MÄRKLIN ELEX parts - Roger Baker, The Walnuts, Ashbury, Nr Swindon. SN6 8LN. (0793) 710358.

FOR SALE. TRIX manuals, UK editions including the large format Book of Engineering. Some TRIX cartons with set packets included, and motor carton. Also a few parts in average condition. SAE for details please - Brian Rowe, 23 Courtenay Park, Newton Abbot. Devon. TQ12 2HB. (0626) 52188.

TECNIC WORM. Harry Mariën sent me a photo of a rather smart Chassis he has build using parts from his TECNIC No.9 Set, and the steering mechanism includes a Worm. Seeing it I was reminded that Harry had shown it to me some long time ago and whereas the illustration in MCS shows a conventional worm with a boss at one end, the actual part has tapped bosses at each end.

TRANC MADERA. Another wood and metal system with large parts, this time from Spain; José Bernal Moreno sent a photocopy of the manual for the #1 Set, the only one known. TRANC is the name of the manufacturer in Barcelona, and MADERA means 'wood'. No precise dates are known but it was around in the 1940s, a Registration Form in the back of the manual allows the date to be put in, with 194 printed at the end, and space for the final digit to be inserted.

The manual does not mention any sets other than the #1, and all the 30 different parts shown (right) are needed for that set. The basic parts are wood Strips

up to 18 holes long, 62 in all, 8 wooden Plates in 2 sizes, and made of metal, Wheels, Axles, and Angle Brackets. Also 114 metal N&B, 2 types of special wooden parts with an oversize hole to provide bearings for the Axles, and a metal Steering Pivot Unit for Scooters and the like.

A few dimensions are given in the manual, the Axles are 8mm diameter, the hole spacing is about 35mm, so the longest Strip is over 2ft long, and the Wheels scale at a little over 6". The 19 models in the manual show much more variety than those in the GILBERT Set. There are relatively simple, albeit quite large, models of a Chair, a Table, Steps, a Swing, and so on; then models that are almost as big as the real thing, a Scooter over 30" high, a Trike, a Horse on Wheels; and finally an Invalid Chair, a Sports Car 110cm long, a Monoplane, and a large Tip Wagon.

CONTENIDO DE LA CAJA MADERA N.º 1					
PIEZAS		Cantidad	PIEZAS		Cantidad
N.º 1		1	1401 - 2		1401 - 2
101 - 6		107	1402 - 2		1402 - 2
102 - 6		100	1500 - 1		1501 - 1
103 - 6		110	1501 - 2		1501 - 2
104 - 4		114	1600 - 35		1600 - 35
105 - 6		118	1700 - 2		1700 - 2
107 - 18		501	2000 - 4		2000 - 4
100 - 2		502	A		A
110 - 8		502 - 4	B		B
115 - 2		1001 - 42	1002 - 52		1001 - 100
118 - 4		A	1003 - 20		1108 - 8
1103		B	1103 - 20		1201 - 8
1108		1100 - 100	1201 - 8		1300 - 6
1201		1108 - 8	1300 - 6		
1300		1201 - 8			
		1300 - 6			

SURTIDO DE PIEZAS DE RECAMBIO

MODELO N.º 13

Piezas que lo componen			
Piezas	Núm.	Piezas	Núm.
4	118	4	1500
8	110	8	1200
9	107	8	1108
6	105	4	1300
6	103	2	1401
2	102	4	5000
6	101	4	1001
2	501	71	1002
22	1600		1003

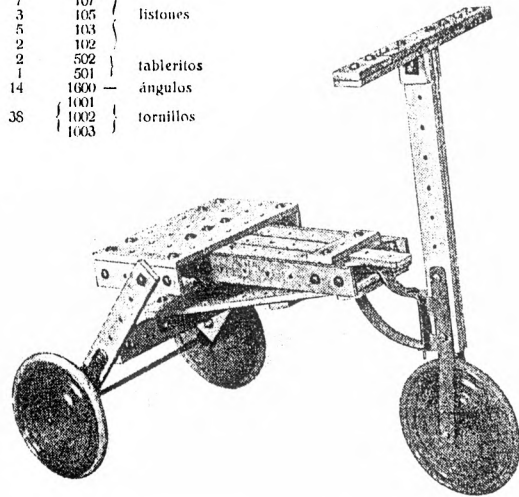
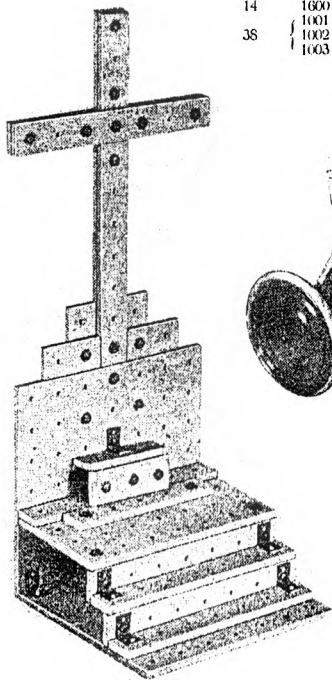
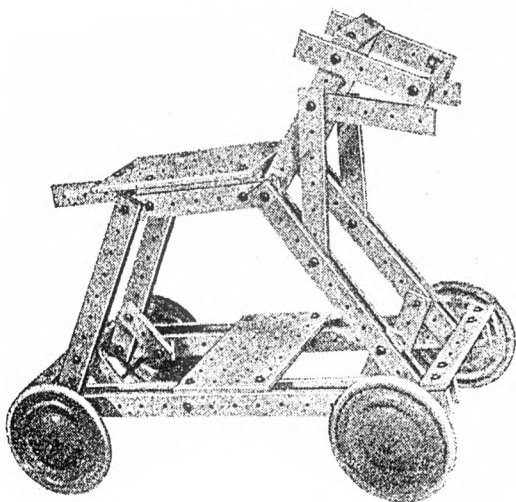
cojinetes }
tubos }
arandelas }
pasadores }
ejes }
ruedas }
tornillos }
Arandelas n.º 1106, las necesarias

NOTA - Suplementar las diferencias de los gruesos de maderas con piezas n.º 101 o bien 102.

MODELO N.º 1

Piezas que lo componen			
Piezas	Núm.	Piezas	Núm.
1	118	1	118
7	107	7	107
3	105	3	105
5	103	5	103
2	102	2	102
2	502	2	502
1	501	1	501
14	1600	14	1600
38	1001	38	1001
	1002		1002
	1003		1003

listones }
tableritos }
ángulos }
tornillos }



MODELO N.º 9

Piezas que lo componen			
Piezas	Núm.	Piezas	Núm.
8	110	1	1401
5	107	1	1400
2	104	1	1000
4	103	3	5000
2	102	4	1201
2	101	8	1108
1	501	2	1501
16	1600	4	1300
1	1401	4	1001
1	1400	52	1002
1	1000	1	1003
3	5000		
4	1201		
8	1108		
2	1501		
4	1300		
	1001		
	1002		
	1003		

listones }
tablero }
ángulos }
ejes }
ruedas }
tubos }
arandelas }
cojinetes }
pasadores }
tornillos }

Arandelas n.º 1106, las necesarias
NOTA - Montar las ruedas ultimamente.



SUMMARY OF MANUAL. #Name: TRANC MADERA. #Details of maker: Juguetes TRANC, Provenza, 173, BARCELONA. #Dates &/or Ref Nos: 194X (date on registration form, X to be filled in. #Page size: 250x193mm ddep. #No of pages: 20 inc covers, all unnumbered. #Language: Spanish. #Printing: Photos of models. #Page Nos of Parts List/Set Contents & highest PN: 4,10000. #Sets covered: #1. #No of models: 19. #Name, Model No, Page No of first & last model: [no names so suitable English ones given] Cross,1,6; Monoplane,19,16. #Other notes: Details from photocopy.

EXTRA PAGES FOR MCS: TRANC MADERA: X1.1,2,4/6,5. [2 Sheets]

AMENDMENTS TO INDEX IN OSN 6: NAME: TRANC MADERA. TYPE: MP. CY: SP. THREAD: SPCE: 35a. dST: DAXL: 8.0.

TECC 1992-93. The Sets 1-5 introduced in late 1991 were described in OSN 6/114. Now Gaston Marette and Brian Rowe have sent some details of a new #6 Set. The box lid shows a Low Loader (some 60cm long) carrying a Mobile Crane, with a Bulldozer in the foreground. The Set is made by MERKUR and contains enough parts (in standard colours) to make all three models at the same time. So it's quite large with about 400 N&B, over 110 Strips, 12 A/G, 14 Tyres, 6 Gears including a Worm and a Bevel, etc. Some 440 parts in all excluding N&B and Washers. The lorry has steering but otherwise the models look fairly simple mechanically, several of those gears are used as ratchet wheels I suspect. Gaston added that he doubted whether the gears would stand continuous running. There is no motor but there are 2 Universals, but I don't know what they're used for.

Apart from the 3 on the cover, the manual contains 10 other models including several small ones and, to quote Gaston, " a good F1 Racing Car, a good Farm Tractor and a very good Dump Truck." The set weighs 5.6kg, twice the weight of the #5, and costs 99 Guilders/1980 Belgian Francs, something over £30. A new MCS Sheet has been prepared which includes a view of the 3 main models, the Set Contents, and details of the parts not in the #5 Set. There are well over 20 of the latter but all are standard MERKUR parts, though not all of them are in MCS as yet. They are included in the largest of the current MERKUR sets, the #340, of which more in the next Issue.

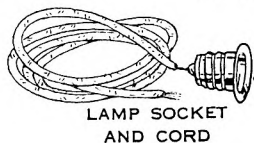
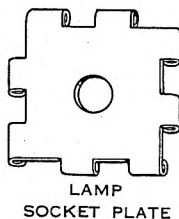
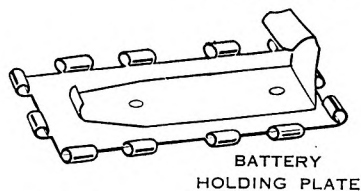
As well as the #6 the TECC No.5 Set is still available but it is not known whether the Sets 1-4, made up from (East) German CONSTRUCTION parts are continued.

EXTRA PAGES FOR MCS: TECC: X2.2a/5a,3a/4b/6,7a. [2 Sheets]

AMENDMENTS TO MCS, Page 1: NAME: Replace #5 by #5-6. SETS: Replace #5 by #5,6. PARTS: Replace 86 by 112. PERIOD: Replace 1992 by 1993. COMMENTS: Add: Set 6 was introduced for Xmas 1992, details are given on pp 2a/5a and 3a/4b/6a. MATERIAL SUPPLIED BY: Add: Gaston Marette, Brian Rowe.

STANLITE PARTS. Ed Barclay has sent a page which probably came from a STANLO manual. On one side is HOW TO BUILD WITH STANLO, identical to p7 in MCS; on the other are some of the parts shown on the MCS p4 but they have been rearranged to make room for the lighting parts shown below (x.7). The Price List alongside is similar to the one in MCS plus the STANLITE parts of course, but there is no mention of the Hub Pulley or Tire. The NOTE is not in the MCS version either and I wonder if it is simply to avoid the customer ending up with parts that don't match, or whether there were slight variations in the design of some of the parts and the different versions were different colours. The Wheel or Wiring Clip is not in the Price List but it is in one for the Motor Unit, p7b of MCS/FB.

STANLITE PARTS



PRICE LIST OF SEPARATE PARTS

1. Send money order or stamps to STANLO, New Britain, Conn., U. S. A.
2. Add 10c. for postage on all orders amounting to less than 35c.
3. Prices
(All plates in bundles of 8)
Plates Nos. 1-2-3-7-8-11-13.....35c. per bundle
" " 15-17-20-21.....30c. " "
" " 5-6-10-12-22-23
25-26-27.....25c. " "

NOTE: It is necessary that you specify color which must be the color of the same piece in your set.

Pulleys and wheels.....5c. each
Lamp socket plates (Stanlite).....5c. "
Lamp socket brackets (Stanlite) 2 for 15c.
Lamp sockets with cord (Stanlite)....15c. "
Battery holding plate (Stanlite).....20c. "
Wire rods—bundle of 110 assorted
per bundle 25c.
Stanlo Instruction Books.....10c. "

ITEMS FROM LETTERS.

1. From Roger Baker: "I recently bought a K.W. MASTERBUILDER No.2 Set which was said to be complete, and I was disappointed to find that some parts were missing compared to the Contents List. On then checking I was surprised to find that there were enough parts to make each of the models shown in the manual, and when the parts were packed into the box there seemed no 'spare' holes. It turned out that other, presumably later, No.2 manuals showed contents which corresponded to my set, so there is little doubt that my manual was in error. Does anyone have an illustration showing how this set was originally laid out in its box?"

While writing can I mention the use of rubbers [erasers] for the cleaning and 'light' restoration of parts. I try to do as much of this work as possible dry to avoid using metal polish, which I find smelly, dirty and difficult to remove from inside holes. Ordinary soft pencil rubbers are good for cleaning commutators and similar copper contacts; coarser ink rubbers can be used for polishing harder plated metals. For stubborn stains the carborundum rubbers used for cleaning model railway track are excellent as they will polish nickel for instance, without taking off the plating. A bonus is that as well as removing surface rust they will polish the steel a little giving an acceptable appearance without destroying authenticity. Be careful however the coarser type can scratch the surface somewhat."

And from a later letter: "I recently bought a small clockwork motor - there were no identification marks on it but from its colours (similar to current MÄRKLIN red and green) and the small illustration in MCS, I am sure it is a No.650 MÄRKLIN MARBI. As can be seen in MCS it is slightly larger than a Magic Motor and appears more akin to a scaled down MECCANO No.1. The side plates though are the same distance apart as a No.2, even though it's non-reversing, and it's quite a powerful motor."

Two points on the TRIX article in OSN 7. I have a 2nd Edition TRICY TRIX manual dated July 1955 on the inside front cover, which seems otherwise much the same as the one described. I also own a boxed No.2161 motor with Instruction Leaflet also numbered 2161; it is similar to the 2060 in OSN 7 except that the armature is shrouded. It's in a gold colour with green field coil poles." [This confirms the layout of the 2161 given in OSN 4/52.]

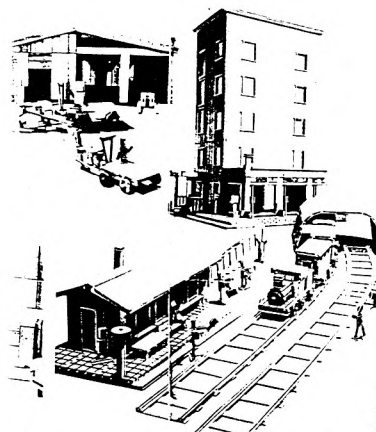
2. Ed Barclay noted that the PRIMUS Gear Wheel he owns has 59 teeth, an unusual (prime) number, but useful to give a $29\frac{1}{2}:1$ ratio for moon phases of clocks. Also that the teeth are cut like those used in clocks. [W.Butcher & Sons who made PRIMUS were camera makers but didn't make clocks so far as is known. Of 4 Gears to hand, 3 have 56 teeth and one, which came with some CHASSIS parts has 59. Its o/d is the same as the others.]

3. From Peter Kessler: "According to David Grey of Capetown JEP is no longer on the market, a pity, the Army set was just that much better than the Liverpool or French versions."

4. Valerie Young wrote that at one time LYNX Sets were made near her at Woburn Sands and the Instruction Leaflet for a 1A Set she owns bears the legend: 'Sole Manufacturers, The Bay Manufacturing Company, Station Road, Woburn Sands, Nr. Bletchley, Bucks, England. Also of Morecombe, Lancs., and Glasgow.' Valerie also sent some details of a CONSTRUCTO set (called PLEASURE BEACH in MCS), which I hope to include in the next Issue, and mentioned that she once saw an electrical set of the same brand, and it contained a coil among the other parts.

5. From Thomas Keel via Peter Kessler, photocopies of a Swiss TECTO brochure, from the 1940s perhaps, showing Sets A to F, and about 50 wooden parts with tongue and groove joints. Attractive looking models but as space is short just the much reduced illustration right; if you would like more details please ask.

6. Don Redmond sent a correction to his Sector Plate Classification in OSN 8/158. Under B.3(a) Premier is misspelt, and under Aluminium '6x5' needs to be inserted between 'A.2(a)' and 'holes'. And speaking of some STRUCTOMODE parts found in a mixed lot he says: "Pairs of 5.5 and 12.5in. characteristic Braced Girders were what enabled me to recognise it; other recognition features are the large radius strip ends, and for DAS, the end (bent tip) holes are very close to the ends of the strip. Also included were green painted aluminium plates 8.5x 4.375in., with edges raised 1/8in., and two slots 1/2in. long at one end with two little bent tabs at the other. These it is said, are bridge deck panels although no such part in shown in MCS."



7. Derek Moore recalls Matchbox Sets being sold by Woolworths in 1938 when he was 12. His recollection is of the parts being held together by 'wheels' pushed on dowels of about 1/8" dia. The overall size of the box was a probably a little larger all round than a normal, small matchbox. He also remembers

seeing similar sets on sale in Edgware in the 1950s, "but alas, in view of my present interests, I did not buy one." Derek also sent a fine sketch of a solid wood Aeroplane Kit sold by Woolworths at about the same time. The various parts, fuselage, wings, struts, etc, pushed into one another; the wing span was perhaps 8 or 9". I can send a p/c of it to anyone interested.

8. From Dennis Higginson: (a) There are at least 3 varieties of PRIMUS Buffers. The head of the type illustrated in MCS is a disc of constant thickness, the second sort is similar but the outer face of the disc is distinctly conical. The third sort is in two pieces with the head, a $\frac{1}{4}$ " shank and a 1" threaded tail as one part, with a pressed body screwing onto it. The conical outer face of the head is slightly rounded but with a flat in the centre. (b) During the mid 80s the ERECTOR range from the Ideal Toy Co Ltd of Woodley, Berks consisted of the 200, 375, 500 and 725 Outfits plus some sets to make single models. Dennis has 3 of the latter to make an Alien Terrain Patrol, a Bi-Tread Defence Tank, and a Mega-Claw Excavator; he wonders whether there were any more in the series.

MORE THREADS. Following the piece in OSN 7/168, Dennis Higginson sent some data which came from an unnamed technical publication of probably the 1940s. Much of it confirms what was in OSN 7 but there are also the following:

- For the 3/32" US Form, 48tpi is given as well as the 56 and 60 already noted.
- No mention is made of ANC or ANF threads but details of an A.S.M.E. series are given. This uses a similar notation to ANC/F and as well as all the combinations of diameter and tpi given for those series there are: 4-32, 5-36, 6-36, 7-30, 7-32, 7-36, 8-30, 8-40, 9-24, 9-30, 9-32, 10-28, 10-30, 12-32. All the diameters correspond exactly to the ANC/F ones and those for the 7 and 9 sizes are .151" and .177" respectively. The A.S.M.E. dia for #14 is .242" and no doubt the ANC/F dimension (not given in OSN 7) is the same.

Also Gaston Murette sent details (below) from an old technical manual, of an obsolete series of Belgian threads which are unusual in that the diameter is given in mm and the pitch as tpi; the Angle is not mentioned.

Thread No.	16	17	18	19	20	21	22	23	24
Diameter, mm	2.4	2.7	3.0	3.5	4.0	4.6	5.2	5.9	6.6
tpi	48	40	40	32	26	26	24	20	20

EXTRA MCS SHEETS. The Sheets listed below are available at 15p per Sheet plus postage.

HAO WANG: X1.1,2,3/4/6,5. [2 Sheets]	STABA(2): X1.1/2a,3/4-b,5-a,6. [4 Sheets]
KITANO: X1.1,2,3/4/6,5. [2 Sheet]	TECC: X2.2a/5a,3a/4b/6a,7a. [2 Sheets]
MASTERBUILDER: X1.1,2a,3/4a,5a,6. [3 Sheets]	TRANC MADERA: X1.1,2,4/6,5. [2 Sheets]
MODELIT: X1.1. [1 Sheet]	WALTHER'S INGENIEUR: X1.1,2,3/4/6,5. [2 Sheets]
GILBERT NEW WHEEL TOY: X1.1,2,3,4,5-a,7-a. [4 Sheets]	

ACCOUNTS. Dear Subscriber,

Your remittance of _____ received with thanks.

Your credit balance after deduction for this Issue and _____

is _____. Please renew your subscription if you wish to receive the next Issue.

SUBSCRIPTION RATES. For 1993 (OSN 8 and 9), including postage, at Printed Paper Rate where appropriate: UK £5; airmail to Europe and surface mail anywhere, £6; airmail outside Europe, £7. Dollar rates for those sending through Ed Barclay (see below): \$16 (\$14 US).

BACK NUMBERS. For the zones above: OSN 1: £0.90/£1.20/£1.40; OSN 2,3: £2/£2.40/£2.60 each; OSN 4-7: £3.10/£3.60/£4 each.

ADVERTISEMENTS. 10 lines free each Issue for each subscriber, above that prorata to £5.50 per side. Insertion guaranteed if ads reach Ed by end January/July.

PAYMENT. Please make cheques etc payable to P.A.Knowles. Remittances in other than Pounds Sterling will be cashed locally and the resulting Sterling credited.

- North Americans can pay at the dollar rate (see above) by remitting to Ed Barclay, 2681 Third Avenue East, Owen Sound, Ontario, N4K 2M5, Canada.

- Overseas subscribers can pay by VISA, ACCESS or MASTER cards: send Card No, Expiry Date and Name and Address of Card Holder. Debits appear under the name 'SIMPLY COMPUTERS'.

- Overseas subscribers need not send sums of less than £5 for Back Numbers, ads, purchases from the Editor, etc, until it is time for subscription renewal.

CONTRIBUTIONS. If possible please type these, single spaced, on one side of the page only, within a width of $6\frac{1}{2}$ " (165mm). If available please use letter spacing of 15cpi.

Nr. 701. Dampfmaschinen-Anlage

In 3. Stabli-Stipendium-Wettbewerb 1930 erhielt Heinz Claus (13 Jahre), Dresden für sein Modell Zwillings-Dampfmaschine einen Geldpreis von RM 150.—.

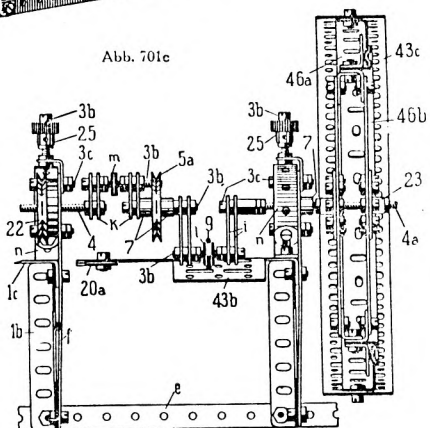
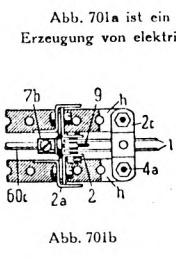
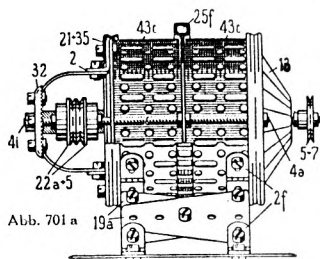
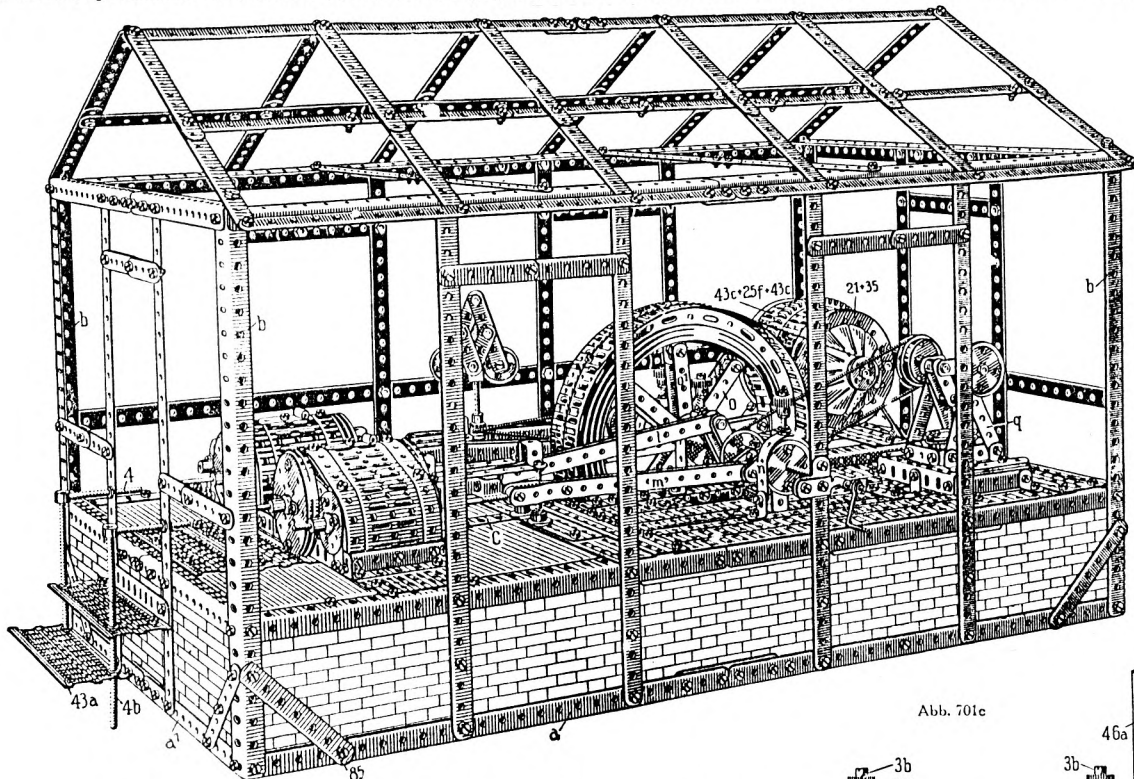


Abb. 701a ist ein Schnitt durch die Dynamomaschine, die zur Erzeugung von elektrischer Kraft dient.

Abb. 701b zeigt die Aufsicht auf einen Kreuzkopf. Die oberen Gleitschienen h sind abgebrochen, damit der Kreuzkopf in der Zeichnung nicht verdeckt ist.

Abb. 701c halbe Kurbelwelle mit Schwungrad, die andere Hälfte der Kurbelwelle ist wie die gezeichnete.

Abb. 701d Schnitt durch die Wasserpumpe.

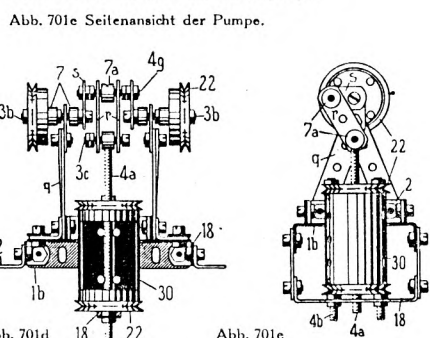
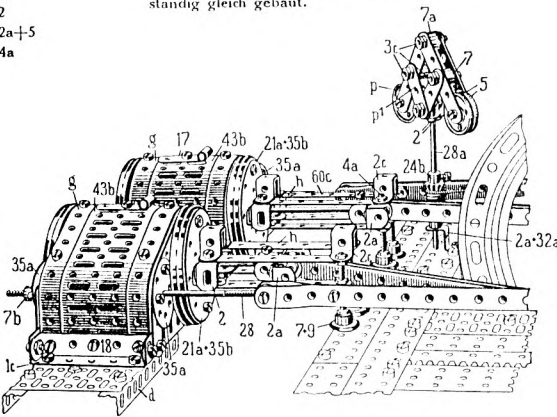


Abb. 701e Seitenansicht der Pumpe.

Abb. 701f Ansicht der beiden Dampfzylinder und des Regulators. Die Zylinder sind vollständig gleich gebaut.



Teile zum Modell Nr. 701 Seite 194:

- Maschinenhaus:**
- 4 Fundamentrahmen a W.E. 50 L. lg. (25+25)
 - 4 Querrahmen a' " 30 " (15+15)
 - 4 Eckstiele b " 25 " "
 - 2 Grundschwellen c " 50 " (25+25)
 - 2 " d " 10 " "
 - 2 Querschwellen e Fl. 30 " (15+25)
 - 4 Lagerbänder f " 11 " "
 - 4 Lagerstützen Nr. 1b
 - 2 Treppenstufen " 43a
 - 2 Treppenstützen " 4b
 - 2 Geländerstützen " 4
- Der Boden des Maschinenhauses läßt sich mit Stabilteilen ausfüllen. Er kann aber auch ganz aus Pappe angefertigt werden, so daß nur die Grundschwellen und Lagerstützen aus Stabilteilen bestehen.
- 2 Dampfzylinder (Abb. 701f Seite 195):**
- 1 Kolbenstange Nr. 60c
 - 1 Schieberstange " 28
 - 2 Zylinderdeckel " 21a+35b
 - 2 Schieberlager " 35a
 - 2 Stopfbüchsen " 7b

- 1 Zylindermantel Nr. 43b
 - 2 Mantelisen g Fl. 15 L. lg.
 - 4 Gleitschienen h " 7 " "
 - 1 Kreuzkopf (Abb. 701b) Nr. 2+2a+7b
 - 2 Gleitschienenstützen " 4a
- Kurbelwelle (Abb. 701c):**
Die Welle ist zusammengesetzt aus Nr. 4+3b+3b+3b+3c+4a+3c+3b+3b+3b+4b
- 4 Kurbelarme i 2 Fl. 3 L. lg.
 - 4 " k 2 " 2 " "
 - 2 Pleuelstangen l 2 " 15 " "
 - 2 Schieberstangen m 2 " 15 " "
 - 4 Lagerbügel n " 9 " "
 - 1 Lager Nr. 17a
 - 4 Lager " 22
 - 4 Öler " 3b+25
 - 2 Antriebsräder " 5a
- Schwungrad (Abb. 701c):**
- 1 Nabe Nr. 23
 - 1 Radkranz " 43c+46a+46b
 - 6 Speichen o 2 Fl. 5 L. lg.
 - 1 Doppelspeiche o' 2 " 11 " "

- Regulator (Abb. 701f Seite 195):**
- 1 Regulatorspindel Nr. 28a
 - 2 Lager " 2a
 - 2 Gewichte " 5
 - 2 Regulatorarme p 2 Fl. 5 L. lg.
 - 2 " p' 2 " 3 " "
- Pumpe (Abb. 701d und e):**
- 1 Sockel Nr. 1b
 - 4 Stützen q Fl. 5 L. lg.
 - 2 Kurbelarme r " 3 " "
 - 2 " s " 2 " "
 - 1 Zylinder 2 Nr. 22+30
 - 2 Zylinderbolzen " 4b
 - 1 Kolbenstange " 4a
 - 1 Kurbelwelle " 3b+4g+3b
 - 2 Räder " 22
- Dynamo (Abb. 701a):**
- 4 Füße Nr. 2f
 - 2 Stützplatten 2 " 19a
 - 2 Dynamodeckel " 21+35
 - 1 Mantel " 43c+25f+43c
 - 1 Welle " 4i
 - 1 Lager " 32
 - 1 Kollektor 2 " 22a+5
 - 2 Spannbolzen " 4a

Beschreibung zum Modell Nr. 701 Dampfmaschinen-Anlage auf S. 194:

Diese Dampfmaschinen-Anlage besteht aus einem Maschinenhaus, zwei liegenden Dampfzylindern, einem Schwungrad und vierfach gekröpfter Kurbelwelle, einem Regulator, einer Pumpe und einer Dynamo. Beim Bau des Modells gehe man folgendermaßen vor:
Die verschiedenen Teile der Anlage werden zuerst einzeln zusammengebaut. Dabei ist zu beachten, daß die beiden Dampfzylinder auf 4 Grundschwellen d. W. E. 10 L. lg. und 2 Grundplatten Nr. 1c liegen. Über den Zusammenbau der Zylinder selbst gibt die Abb. 701f gute Aufklärung. Für die Ausfüllung der Maschinenhausseiten verwendet man am besten eine Ziegelsteinpappe und für den Bodenbelag der Halle eine einfarbige Pappe. Diese Pappen gehören nicht zum Inhalt des Baukastens, sind aber als Stabil-Einzelteile überall zu haben. Siehe Seite 8 des Vorlageheftes 49—52 unter Nr. 48a—d. Selbstverständlich können auch andere Pappen für das Modell verwendet werden.