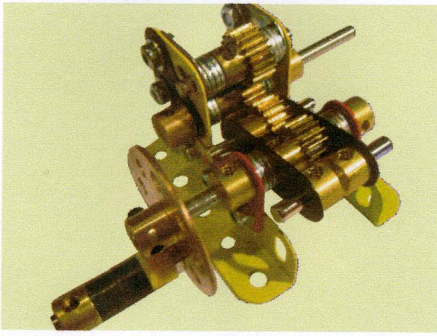


The "One Way Drive"

Output rotation independent of input

A Design by Tony Darrah.



This device if built carefully is a particularly smooth running little mechanism, quite easily adapted to fit in large or small models. Turning the handle Clockwise or anticlockwise (input Shaft), the output will only rotate in one direction.

Unit One:-

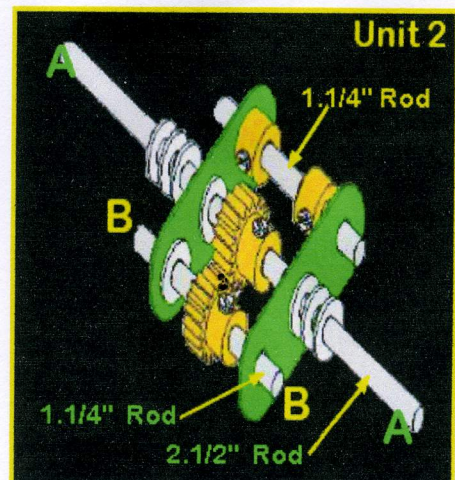
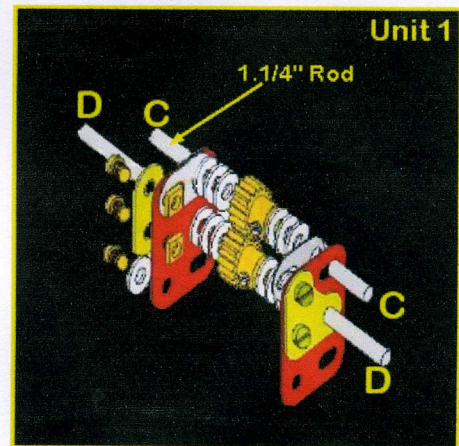
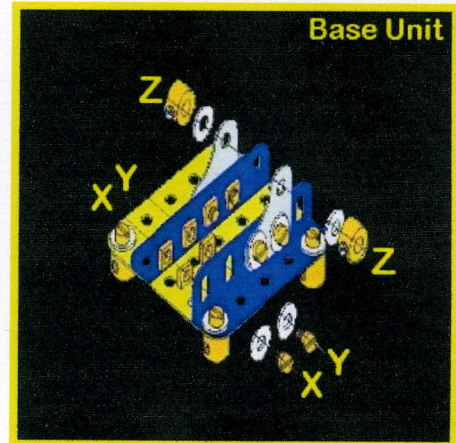
The whole unit fits inside the angle girders on the **Base unit** in the holes 'y-y' and 'x-x'. The two Fish plates(10) labelled 'M' should be adjusted so that the small hole, to journal the rod 'C- C', is as far to the right as possible in the elongated holes of the flat girder (103h). The output shaft 'D-D' is journalled in the holes of the corner brackets (133a).

Unit Two:-

Rod 'A-A' is the input shaft - journalled in the two corner brackets (133a) fixed to the Base unit, in the position 'Z-Z'. The rod 'B-B' is 1.1/4" long - as is the rod at the opposite end of the unit. The length helps to prevent the unit rotating too far.

The pinion on the shaft 'C-C' needs to mesh with the pinion on shaft 'B-B' when the shaft 'B-B' rotates upwards, It is essential that the pinion on shaft 'C-C' on a circumference of rotation of shaft 'B-B', thus the need for the shifted position of the Fishplates.

(Please note you might have to elongate the Fishplate slots slightly by filing so the gears mesh perfectly) .



Qty	Part No	
2	6a	
2	9d	
2	10	
2	16a	
3	18c	
1	24	
4	26	
18	a37b	
14	37c	
22	38	
28	38s	
3	38a	
7	59	
4	64	Optional
12	69a	
1	72	Optional
2	103h	
1	115	
4	133a	