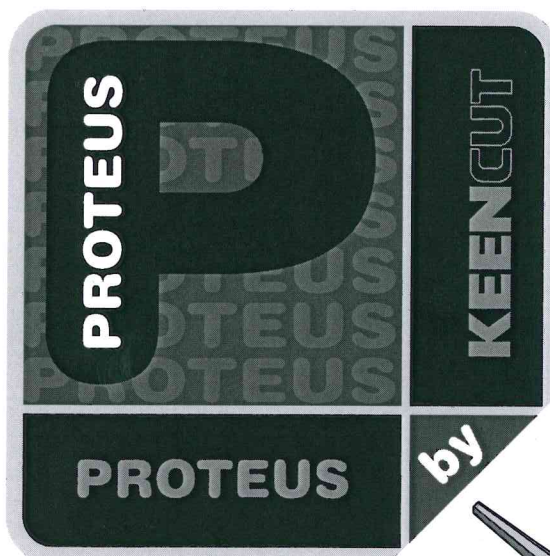
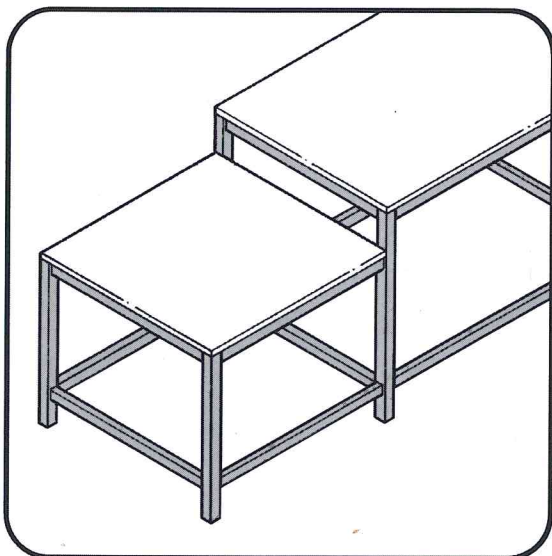
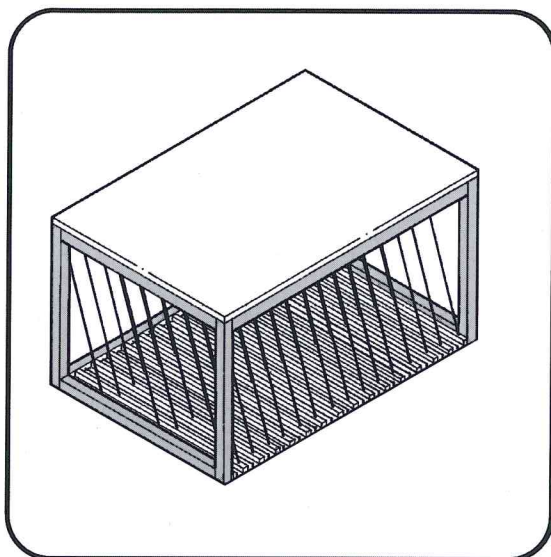
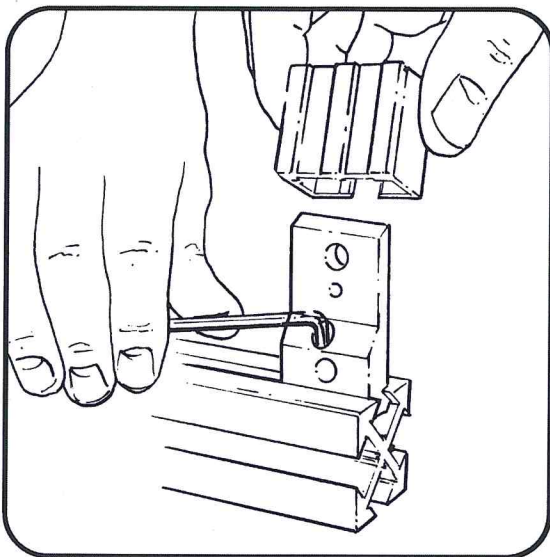
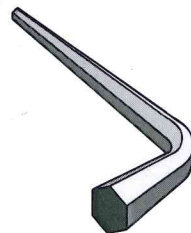




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Assembly instructions

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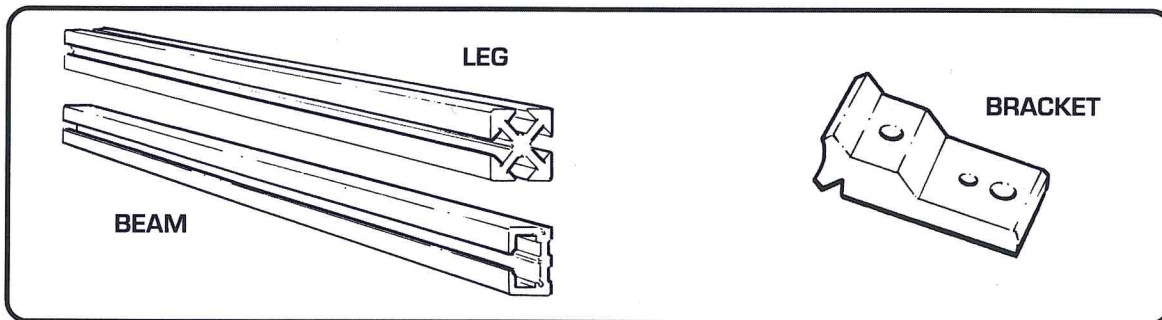
1-800-523-4855

www.fosterkeencut.com

General Guidelines

Please read these notes before starting to assemble your proteus units

THE BASIC COMPONENTS OF THE PROTEUS SYSTEM consist of two aluminium extrusions (the **leg** and **beam** extrusions) which are connected together with **joining brackets** to construct various forms of work benches, tables, storage units, etc. Plastic trim is then fitted to the finished construction to enhance its good looks.



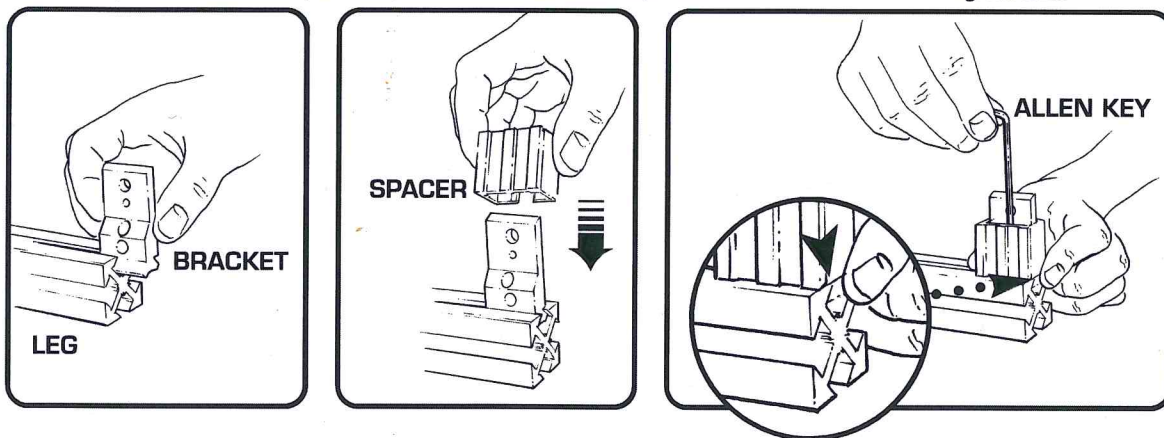
THE ORDER OF ASSEMBLY IS IMPORTANT for all constructions:

- Fasten the joining brackets to the **leg** extrusions
- Construct the **end frames**
- Join the **end frames** and **beam** extrusions to complete the cube
- Fix the trim and worktop

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POSITIONING THE JOINING BRACKETS ON THE LEG is done in one of two ways :

- 1 With each kit is included a small section of the **beam** extrusion which acts as a **spacer**. When placed over the **joining bracket** during assembly it enables you to precisely predict the final position of the **beam** on the **leg** when the assembly is complete. This method is particularly useful when a **beam** is required to be flush with the end of a **leg** extrusion.

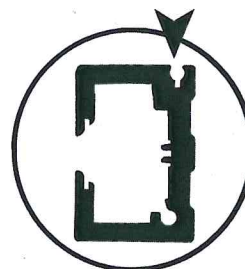


- 2 Use a measuring tape or make a spacer from stiff card or wood to space the **joining bracket** a given distance from another **joining bracket** or the end of the **leg**.

THE 5mm ALLEN KEY (HEXAGON WRENCH) in your assembly kit has a ball end on the longer leg which enables the key to be rotated at an oblique angle to the screw it is tightening. This feature allows the key to be rotated fully when used in a confined area. Many ratchet screw driver tool sets contain 5mm Allen key bits which can be very useful when assembling the Proteus.

WHEN FITTING GLASS OR OTHER SMOOTH MATERIALS such as a smooth MDF work top for example, without using screws or other fixings we offer a **white silicon rubber cord** to provide the grip necessary to avoid easy displacement, the cord fits into the slot in one of the narrow sides of the **beam**.

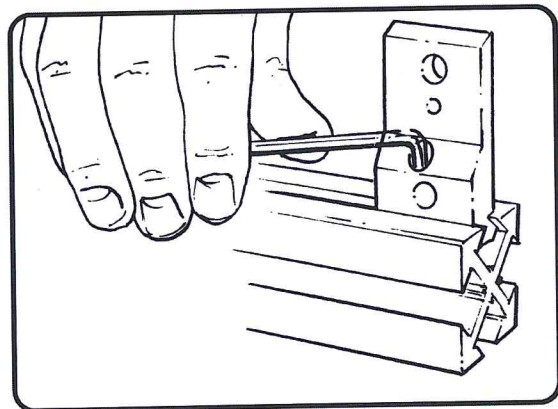
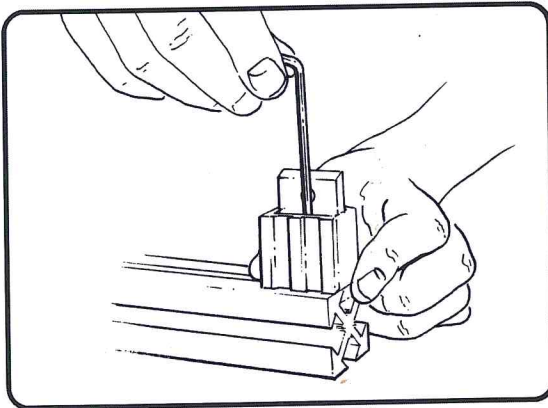
When assembling a bench or table ensure that the slot is uppermost.



SPECIAL ASSEMBLY NOTES AND PRECAUTIONS

Both the **beam** and **leg** sections feature special webs which are intended to collapse locally under pressure from the conical end of the **grub screw**. The result is a permanent and secure position for each **grub screw** which is designed to prevent collapse of a structure under load in the event of one or more **grub screws** working loose over a period of time.

It is essential that the **grub screws** are clamped up tight. Use the ball end of the Allen key to initially tighten the **grub screw**, then when you are satisfied that the components are located in the correct position, always fully tighten the **grub screws** with the short leg of the Allen key in the screw head using additional leverage of the long leg (*possibly another 1 1/2 turns or so*).



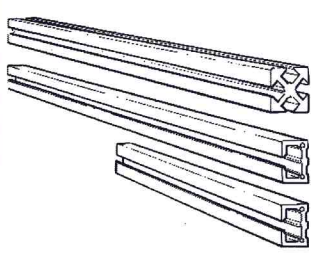
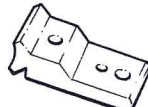
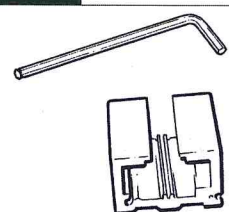
For the reasons described above it is important to locate each component carefully before tightening fully because a small adjustment (*less than 5mm or 3/16"*) will be difficult afterwards. Large realignments will present no problem.

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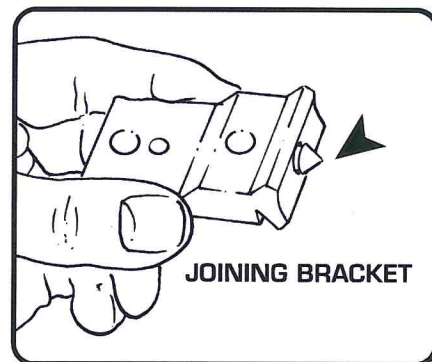
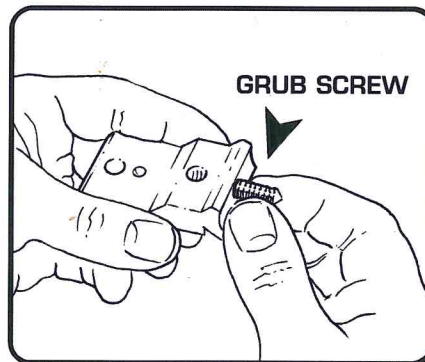
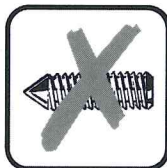
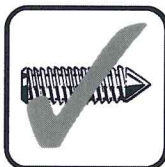
Workbench or Table

SECTION 1

Part quantities may vary, based on the size of the bench.

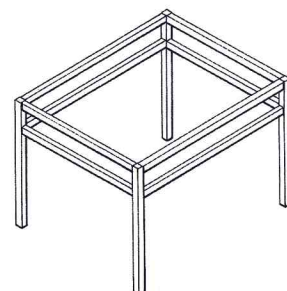
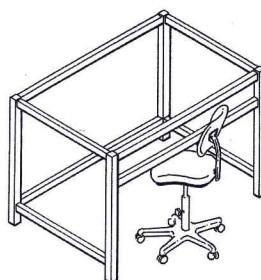
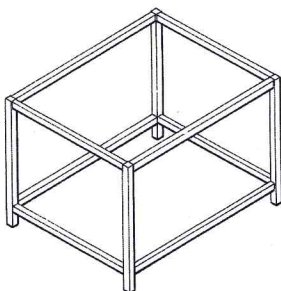
ITEM		ITEM	
	Leg		Grub Screw
	Long Beam		Joining Bracket
	Short Beam		Screw
TOOLS		ITEM	
	Allen Key		Work Top Clip
	Spacer	Note: The Short/Long beams may be similar in size, and may be "reversed" in some instructions.	

- Put a **grub screw** backwards into each of the **joining brackets** - do not place **grub screws** in the other holes at this stage.



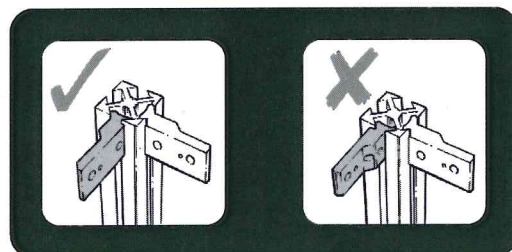
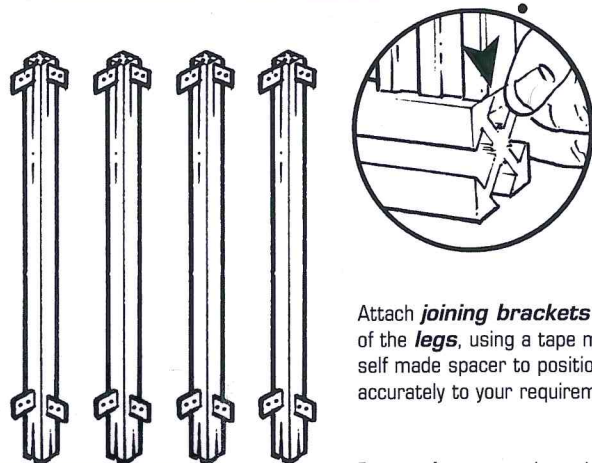
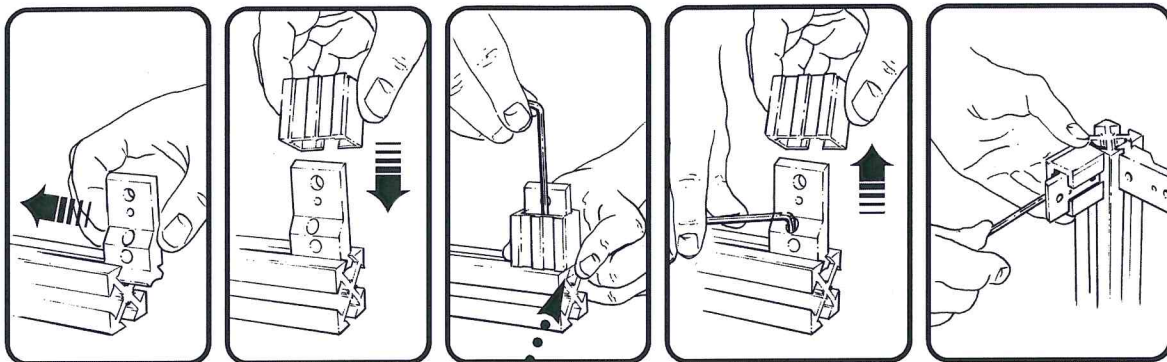
- Attach the **joining brackets** to the **legs**.

At this stage you need to decide the format of your bench/table. Here are a few ideas :



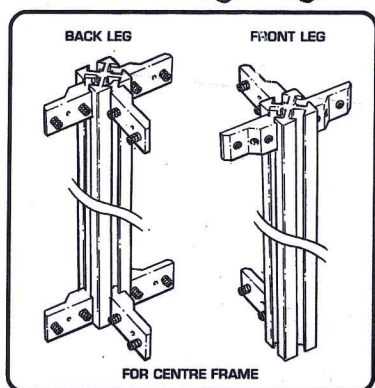
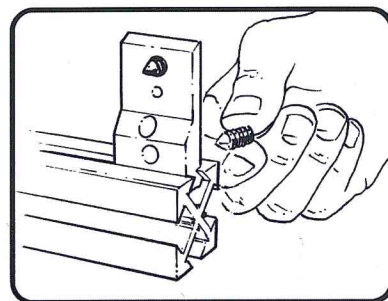
We will assume for the purposes of these instructions, that the style on the left is required.

Using the **spacer**, fit two **brackets** to the top of each **leg** ensuring the brackets are fitted the correct way round - with the flat faces towards each other.



Attach **joining brackets** to the bottom of the **legs**, using a tape measure, or self made spacer to position them accurately to your requirements.

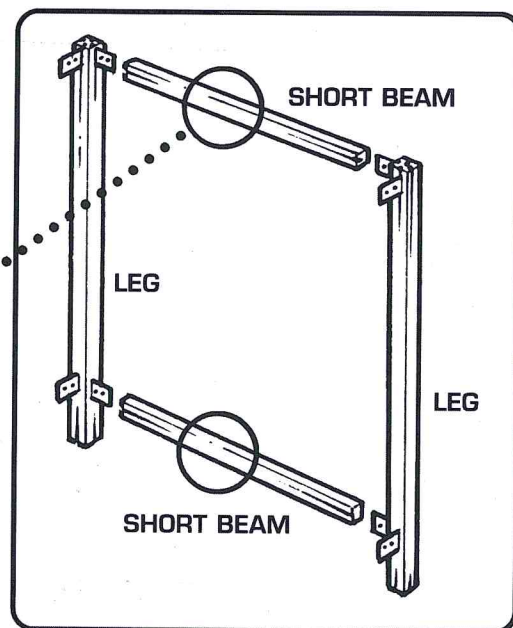
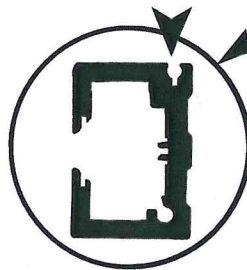
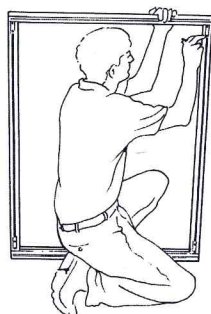
Put **grub screws** in each of the two large holes in every **bracket**, only screw them in by 2 or 3 turns.



3 Make the end frames

Fit two **short beams** between two **leg** assemblies ensuring the small groove in the **beam** is uppermost. Pulling the two **legs** together - closing any gaps between the end of the **beam** and the **legs** - tighten all the **grub screws** using the long end of the allen key first then the short end to lock them.

Repeat for the second frame.

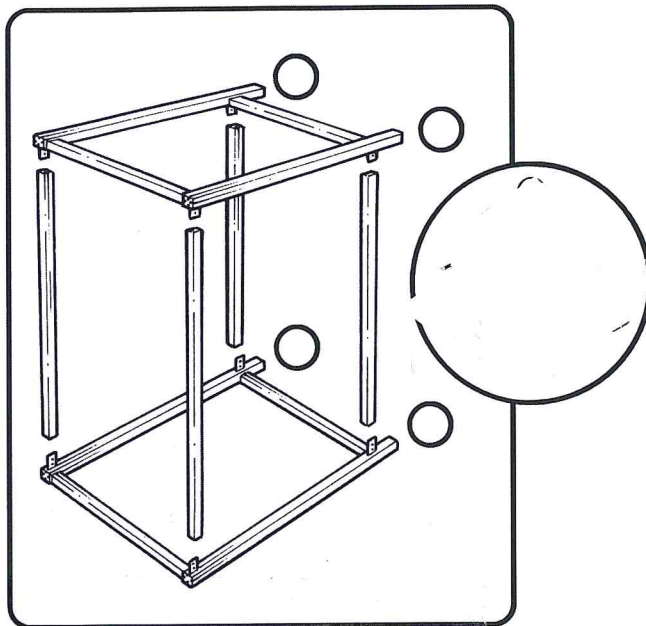
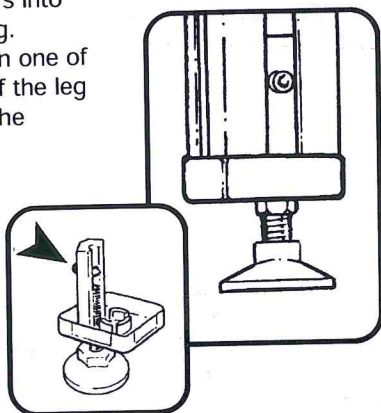


4 Join the end frames

Place one **end frame** on the floor with the **brackets** pointing upwards, position a **long beam** over each **bracket**, ensuring the small groove in the **beam** is uppermost. Place the other **end frame** over the beams and tighten the **grub screws** ensuring there are no gaps between the **beam** end and the **legs**.

Fix the height adjusters into the bottom of each leg. Position the adjuster in one of the internal grooves of the leg (ie. the same groove the brackets are fitted).

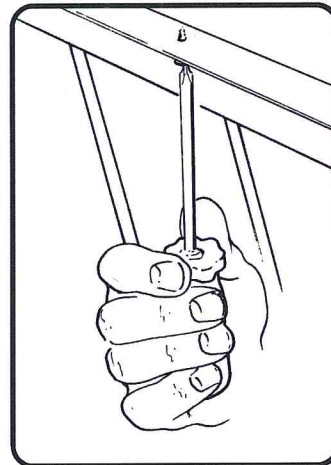
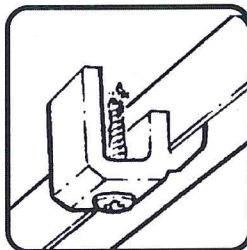
Position the bottom of the aluminium bracket level with the bottom of the leg and tighten the grub screw fully.



Fitting the Worktop

It is advisable to fit one piece worktops cut from 18mm (3/4") MDF. When deciding on the size of your worktop make allowances for any overhangs you require.

The worktop **clips** are hooked into the slot on the inside of the **beam** and screwed into the underside of the worktop. Position one **clip** near to each corner of the top and space any others accordingly.



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