**HOW TO ASSEMBLE THE CLOSE-UP FRAME**

YOU WILL NEED: A SMALL (JUNIOR) HACKSAW FOR CUTTING PLASTIC PIPE. SUPER-GLUE FOR STICKING JOINTS

6 METRES OF 21.5mm UPVC PLASTIC OVERFLOW PIPE. 4 ELBOWS TO FIT PIPE, AND 10 **T** PIECES TO FIT PIPE (ALL 21.5mms). TOTAL COST £25 approx.

1. CUT 9 LENGTHS OF THE PIPE TO 57cms LONG

 CUT 2 LENGTHS OF PIPE TO 9cms LONG.

 CUT 2 LENGTHS OF PIPE TO 22CMS LONG.

 CUT 2 LENGTHS OF PIPE 2 CMS LONG

 NO MORE CUTTING TO DO!

1. LOOK AT IMAGE2 1 & 2. THESE REPRESENT THE LEFT HAND SIDE AND RIGHT HAND SIDE OF THE FRAME. NOTE THAT THE TWO SIDES ARE **NOT** IDENTICAL. ONE IS A MIRROR IMAGE OF THE OTHER. MAKE THE LEFT HAND VERTICAL SUPPORT BY TAKING A 57cm PIECE OF PIPE AND FITTING AN ELBOW AT THE TOP AND A **T** PIECE AT THE BOTTOM. DO **NOT** STICK THESE JOINTS YET UNTIL BOTH SIDES ARE COMPLETE, AND THE FRAME CAN FINALLY BE ASSEMBLED USING THE THREE HORIZONTAL SPACERS.
2. TEMPORARILY INSERT A 57cms PIECE OF PIPE HORIZONTALLY INTO THE ELBOW AT THE TOP. TAKE ANOTHER ELBOW AND FIT IT OVER THE RIGHT HAND END OF THIS TOP 57cms PIPE, SO THAT IT POINTS DOWNWARDS (DO NOT STICK ANYTHING YET!)
3. INSERT A 9cms LONG PIECE OF PIPE INTO THE OTHER END OF THIS ELBOW, FACING DOWNWARDS, THEN FIT A **T** PIECE OVER THE END OF THIS SHORT PIPE SO THAT ONE OF THE T’S OPEN SOCKETS FACES OUTWARDS AT 90 DEGREES (SEE IMAGE 1). FIT 22cms LONG PIECE OF PIPE INTO THIS **T** SO THAT IT FACES DOWNWARDS. ON THE END OF THIS PIPE FIT ANOTHER **T**. A SECOND **T** IS JOINED NEXT TO THIS **T** BY MEANS OF ONE OF THE 2cms LONG PIECES OF PIPE. THE TWO **T**s SHOULD BE TOUCHING EACH OTHER (SEE IMAGE 1). THE EMPTY SOCKET OF THE BOTTOM **T** SHOULD FACE TO THE LEFT. INSERT A 57cms PIECE OF PIPE HORIZONTALLY BETWEEN THE **T** AT THE BOTTOM OF EACH UPRIGHT. THE YOU SHOULD NOW HAVE MADE THE LEFT HAND FRAME. ANY PROBLEMS, LOOK CLOSELY AT IMAGE 1.
4. LAY THE FRAME FLAT, MAKE SURE THAT THE THREE EMPTY SOCKETS ON THE THREE **T**s ARE POINTING UPWARDS, VERTICALLY FROM THE FLAT SURFACE (See Image 1). IF YOU ARE SURE THAT THE FRAME LAYS FLAT, AND THE THREE EMPTY **T** SOCKETS POINT UPWARDS, **CAREFULLY** PULL ONE JOINT APART, AND STICK WITH SUPERGLUE. THEN STICK EACH JOINT IN TURN, MAKING SURE YOU DON’T TWIST ANY JOINT, AND THE THREE EMPTY **T** SCOCKETS POINT UPWARDS AT 90 DEGREES FROM THE FLAT SURFACE. (I HAVE FITTED SHORT LEGS INTO THE BOTTOM **T** JOINTS, BUT THEY’RE NOT NEEDED.)
5. HAVING SUCCESSFULLY MADE THE LEFT HAND FRAME, MAKE THE RIGHT HAND FRAME THE SAME WAY,
6. **BUT NOTE, THIS RIGHT HAND FRAME IS NOT THE SAME AS THE LEFT HAND ONE, BUT A MIRROR IMAGE!!**
7. **USING THE THREE REMAINING 57CM LENGTHS OF PIPE SHOWN IN IMAGE 3, FIT INTO THE LEFT AND RIGHT HAND SIDES TO FORM THE FRAME AS SHOWN IN IMAGES 4 & 5. THE THREE CROSS MEMBERS MUST NOT BE STUCK, OTHERWISE THE FRAME WILL NOT DISMANTLE.**
8. **IMAGES 6,7 AND 8 SHOW CLOSE-UPS OF A T, AN ELBOW AND THE TYPE OF PIPING I USED. ALL ARE EASILY AVAILABLE FROM A PLUMBERS’ SUPPLIER, OR FROM EBAY ETC. IT MAY LOOK HORRENDOUSLY COMPLICATED. IT ISN’T – JUST DO ONE BIT AT A TIME, LOOK REGULARLY AT THE IMAGES AND INSTRUCTIONS, AND TAKE YOUR TIME.**
9. **A BACKGROUND CLOTH CAN BE HUNG FROM THE TOPMOST REAR CROSS MEMBER, AND CURVED DOWNWARDS TO MAKE A “COVE”. THIS GIVES A SMOOTH TRANSITION FROM HORIZONTAL TO VERTICAL ON THE BACKCLOTH, WITH NO JOINT.**

 **Geoff Leah 2022.**