



**Tools Required:**

- Precision Screwdrivers
- Soldering Iron
- Solder Sucker
- Wire Stripper
- Laser Cutter or Drill Press for front faces
- Hot melt glue gun
- Disc Sander or Hand Sander
- Bandsaw to cut Styrene and MDF
- Vacuum Former
- Wood Adhesive

**Materials Required:**

- 500mm Square - 5mm MDF
- 2x3100mm square – 2mm Styrene
- 300mm square – 2mm Styrene
- Hot Melt Glue
- Hard Plastic Adhesive
- Extruded Acrylic Hinge
- 16 Neodymium Magnets
- 110x70x30 mm Wooden block for Mould
- ICF – S22 Sony Portable Radio

Component #	Component	Quantity	Material	Manufacture
1	Outer Shell	2	2mm Styrene	Vacuum Form
2	Speaker	1		From Radio
3	Mounting Face	2	5mm MDF	Laser Cut
4	Front Face	2	2mm Styrene	Laser Cut
5	Magnets	16	Neodymium	Bought Separately
6	Dials	2	2mm Styrene	Laser Cut
7	Tuning Bracket	1	5mm MDF	5mm MDF
8	Volume Bracket	1	5mm MDF	5mm MDF
9	Control Screws	2	Plated Steel	Machine Turned
10	Tuner	1		From Radio
11	Volume/Power Switch	1		From Radio
12	Hinge	1	Acrylic	Plastic Extrusion
13	Circuit Board	1		From Radio
14	Battery Pack	1	Polythene	Injection Mould