

TOOLS AND SUPPLIES REQUIRED :

Soldering iron, solder, glue, plastic spacer, wire cutter, razor knife, tweezers, masking tape, cloth rags, methyl ethyl ketone (MEK), and, if possible, audio oscillator and amplifier.

PREPARATION :

- 1.-Using razor knife, remove old cone-coil assembly and clean with MEK all surfaces where suspension and surround will mount of old parts and glue.
- 2.-Check air gap for proper size and alignment.
- 3.-Check frame for tightness to magnet, cracks or warp.
- 4.-Unsolder the old voice coil leads from terminals.
- 5.-Inspect new cone-surround assembly for shipping damage, and remove suspension (spider) from the cone (this item is provided unglued).

INSTALLATION :

- 1.-Fold a piece of masking tape lengthwise around a piece of cardboard (70 mm x 25 mm x 1 mm), with adhesive side exposed and insert it in the air gap and rotate. Repeat this until tape remains clean when withdrawn. Check gap with magnifying light. Clean top plate and magnet of any debris.
- 2.-Using the tube of glue supplied, apply a bead of glue on frame surfaces where suspension and surround will mount.
- 3.-Insert the plastic spacer into the new voice coil assembly, allowing overhang 10-12 mm below bottom of voice coil. Apply bead of glue on cone neck and introduce the spider over the voice coil in the proper position (take the old one for reference). Slide spacer tube over pole piece and down into gap, making sure tinsel leads on assembly are aligned to terminals on frame. Carefully guide voice coil assembly down spacer onto frame and into proper position.
- 4.-Take a small rag dipped in MEK and use it to press down on spider where it joins to frame. Work back and forth to even out spider and secure bond to frame. Repeat for surround, working out bumps.
- 5.-Lay a bead of glue on gasket area. Wait for 5 minutes and place gasket segments on frame in proper position.
- 6.-Rotate down the device and allow glue 24 hours to dry.
- 7.-Use tweezers to guide tinsel leads through solder lugs. Allow enough slack for full cone excursion, but do not allow leads to touch (short). Solder leads to terminals and trim excess.
- 8.-To coat surround use the water base plasticiser supplied and apply on it. Allow 2-3 hours for dry.
- 9.-To install dust cap, first remove plastic spacer and, if there is a dust cap, apply a bead of glue around outer diameter. Install on proper position on the cone. Be careful, too much glue may drop down inside of voice coil. If there is a solid dust cap, center it on the cone and apply a bead of glue in the junction of cone and dome and allow to dry.
- 10.-After adhesive is thoroughly dry, sound speaker with audio oscillator and amplifier at moderate power.