



Fitting & commissioning instructions

1 Planning a loop system.

The majority of problems with AFILS (audio frequency induction loop systems) occur when the installation has not been properly thought through, taking a little time at the beginning can save no end of time later.

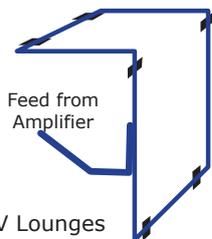
Ideally the loop amplifier should be placed as close to the area to be covered as possible, with the shortest run on the microphone cables. This may involve placing the amplifier on the vanity panel of a desk, or fixing it to the underside of the board room table, and then running an extended mains feed which will cause few problems with the installation.

It is always wise to consider who is using the system, for instance; if you are covering an interview room, you only need to provide for the interviewer and client, so a loop around the desk may be a better solution rather than providing a loop around the perimeter of the room, it will also reduce over spill and increase privacy.

2 Installing the loop.

Desks & Counters

The Telecoil supplied with counter kits (part ETTC) is ideal for quick installation to bank counters and ticket offices and should be placed as close to the customer as possible. The telecoil produces a field about 1.2m in diameter allowing them to be placed on alternate serving positions in densely populated bank halls. For best performance the loop should be bent into an inverted L as shown below and secured using the 'P' clips provided.



Small rooms & TV Lounges

The ET20 amplifier is rated at 20m² coverage for a square room (4.4m a side) where the loop cable is fitted at ceiling (2.4m) or skirting board level. If the room is rectangular the unit will cover 50m² (10m by 5m) with the cable at ceiling or floor level. If the floor contains a lot of steel (computer decking) or aluminium or the cable is placed at a higher level than 2.4m then the coverage will be reduced (approximately 20% per additional metre in height).

The loop consists of insulated cable between 0.2mm (supplied with ET20L and ET20TV kits) and 1.0mm CSA

The cable should be securely clipped at either skirting level (taking adequate care for

protection when going past doorways) or at ceiling level (2.4m). Good practice is to twist the loop feeder cable together between the start and end of the loop and the amplifier. Current Thinking provide the telecoils with twisted feeder cables, and feeder cable is available in 5m and 10m lengths.

If there is any doubt as to the construction of the building, it is always best to lay a temporary loop in the approximate position the final loop will occupy, this will determine the operation of the loop. Many new buildings contain aluminium in lost screed flooring, loops placed on the floor near this aluminium will fail to operate satisfactorily.

3 Audio Sources.

All the ET20 kits come with microphone(s) or a Scart connector. Microphones should be placed near to the source of the sound for the loop. No one microphone will fit all uses, Current Thinking provide a variety of microphones, however in certain conditions specialist microphones will be required and these are available from third parties who should provide guidance on their usage.

The microphone inputs on the ET20 are compatible will all computer multimedia microphones providing a wealth of choice.

In general the tie clip microphone will give good coverage placed on the mullion of a counter or on the side of a television or monitor. The desk microphone is particularly suited to desks, board room tables and counters.

The audio cables must be run separately from the loop cable, under no circumstances should the cables be tied together for any distance, this will cause magnetic feedback and the unit will not perform correctly.

4 Connecting the system.

Once the loop cable or Telecoil is installed the ends should be bared and placed into the orange loop connector on the top of the amplifier. The cable grip is opened using a small flat blade driver as shown. Conventionally the loop start is connected to + and the end to -.

place driver here to insert cable



The microphones and other audio sources simply plug into the 3.5mm jack sockets on the top of the amplifier. Power is provided from a plug top AC adaptor.

**DO NOT USE WITH ANY ADAPTOR
OTHER THAN THAT SUPPLIED**

5 Commissioning.

Before applying power to the unit ensure the drive control (middle of the panel) is fully anti clockwise.



Apply power, the green power LED should illuminate.

Using a field strength meter or loop listening device slowly turn the drive control clockwise with someone speaking near the microphone positions (alternatively a small radio or pink noise source giving 65dBA output can be used) or with the source of audio operating if using the scart connector (ETSL) or the 100V line interface (ETHV), the desired field strength is 0dB (100mAM⁻¹) at the center of the room, or at head height in front of a counter using the telecoil.

As speech is being picked up the current LED should blink on the front of the unit, if it does not blink, and field strength is not achieved, switch off and check the wiring and loop continuity.

The Loop Present sticker should now be applied in a prominent position on the counter, or on the door leading into the room to inform hearing aid users that an AFILS system is present and they can operate the T switch on their hearing aid for clear reception.

It is good practice to provide a site with a loop listening device so the responsible person can periodically test the installation and log operation in a booklet.

Your ET20 should now be fully operational



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