

# KTP Passenger Vehicle Induction Loop Fitting Instructions

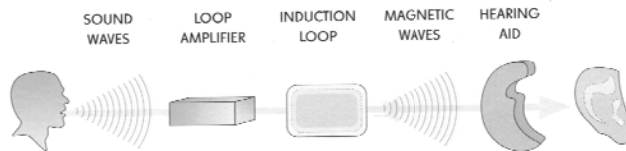
## Overview

Most hearing aids in the UK have three control positions: (M) for microphone, (T) for telecoil and (O) for Off.

The normal position is (M) where the internal microphone collects sounds. When the (T) position is selected, the internal microphone is disconnected and the telecoil receives magnetic waves from an induction loop system and converts the waves back to sound.

Induction Loop Systems generally provide improved amplitude and clarity of sound by using better microphones and electronics than are fitted in most hearing aids.

The KTP PVIL also uses advanced noise cancelling circuitry to filter out low frequency background noise thus enhancing speech clarity for the hearing aid user.



## Benefits

The KTP PVIL will provide the hearing aid wearer with a better clarity of sound with reduced background noise, so they will have a greater chance of understanding what is being said. This also reduces the embarrassment of having to shout, the delay of having to repeat words and the risk of misunderstandings therefore making conversations more relaxed and friendly.

## Installation

The KTP PVIL system comprises of:

1. The loop box 270 x 270 x 26.5mm containing the electronics, induction loop antenna, power socket, audio line in and microphone socket.
2. Power Supply cable and plug and Phono plug and cable for audio line in.
3. Microphone – a small 70(L) x 44(W) x 27mm(H) special microphone box attached to 2.5 metres of miniature screened cable terminating in a 3.5mm jack plug.

The magnetic waves are transmitted approximately 1.5 metres radius in all directions from the centre of the loop box and can pass through glass, wood, fibreglass and non ferrous metals allowing the loop box to be fitted either horizontally or vertically above the vehicle roof panel, behind a seat, drivers cab door or any other convenient location.

To secure the loop box in the chosen location: There are 8 plastic rivets securing the loop box base to the loop box, 4 in the four corners of the box and 4 in the centre of box lip. Two of the centre rivets can be removed by inserting a small flat screwdriver blade between the loop box two halves close to the rivet to be removed and twist the screwdriver, the two rivet halves will pop apart leaving a hole where you can screw or bolt fix the loop box in the required position.

### **Microphone:**

The microphone should be positioned near to the driver and can be fitted either using adhesive double sided pads or screw fixing. Peeling back the TEar label on the front of the microphone, there is 1 screw beneath which will allow the front section of the microphone enclosure to be removed - the rear section can then be drilled and screw fixed in the required position. The double sided pad method is recommended as it helps insulate the microphone from excessive vibration produced by the vehicle. The microphone jack plug should then be connected to the jack plug socket on the loop box. If the loop box is positioned further away from the driver (near a designated seating area for the hard of hearing) then a suitable (readily available) extension lead should be used.

### **Audio Line In:**

An audio line level input is available at the loop box for the connection of automatic announcement systems or on board entertainment. The input is rated at 1 volt peak to peak so loudspeaker outputs should not be connected without using a suitable loudspeaker to line level adapter.

### **Power supply:**

The KTP PVIL is a **12 volt DC** fully insulated system so can be fitted to positive or negative ground vehicles. It is recommended that the system is powered via the vehicle accessory circuit so that the system only operates when the vehicle is in use. The power lead supplied may need to be extended and it should be noted that the power plug is **centre positive (+)** When installing the system in vehicles with a 24v DC power system, a suitable (readily available) regulator **MUST** be used to reduce the voltage down to 12 volts. Current consumption of the PVIL is 300mA maximum.

To confirm that the system is working, the RED power LED should be illuminated and the GREEN LED should flash when sound is received via the microphone and/or line input equipment.

**PLEASE NOTE: DAMAGE CAUSED BY OVER VOLTAGE IS NOT COVERED UNDER WARRANTY**

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