These three controls are accessible from outside the tone-ringer and give the end-user control over basic functions. The pitch control varies the pitch of the tone-ringer's signal.

The ON/OFF slide switch is used to activate or silence the tone ringer. Slide the switch down to the bottom position to activate the tone-ringer or up to the top position to prevent the tone-ringer from operating.

The volume control is used to set the loudness of the tone ringer's speaker (either internal or external). Turning the control clockwise (towards the right) increases the volume of the speaker. Turning the control anti-clockwise (towards the left) decreases the speaker's volume.

Volume control
ON/OFF slide switch
Pitch control

J5 — Jumper J5 (Hytel) is not used.

J4 A / B — Jumper J4 is used to select either "normal" or "reduced tinkle" operation. The default setting is "normal" with the link bridging the bottom two pins (position B). If "reduced tinkle" operation is required the link must be moved so that it bridges the top two pins (position A). The "normal" position is used for the majority of installations.

J3 — Jumper J3 (Speaker) is used to connect the internal Speaker that is mounted in the front-cover of the tone-ringer to the PCB. Check that the speaker wires are plugged into this link-block before replacing the cover on to tone-ringer.

J2 Direct — Jumper J2 (Direct) is used only if the tone-ringer is operated by a DC source (instead of the normal AC ring voltage). The default setting is for an AC ring supply (link open). If a DC source is used, the two pins on jumper J2 must be bridged.

J1 A INT / B EXT — Speaker — Jumper J1 (Speaker) is used to select either internal or external speaker operation. The default setting is for the internal speaker with the link bridging the top two pins (position A). If an external speaker is used, the link must be moved so that it bridges the bottom two pins (position B).
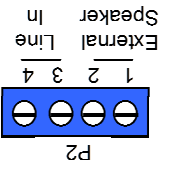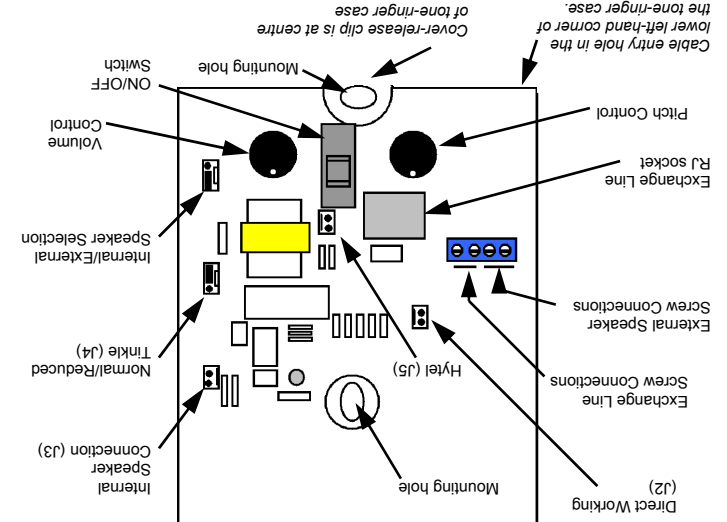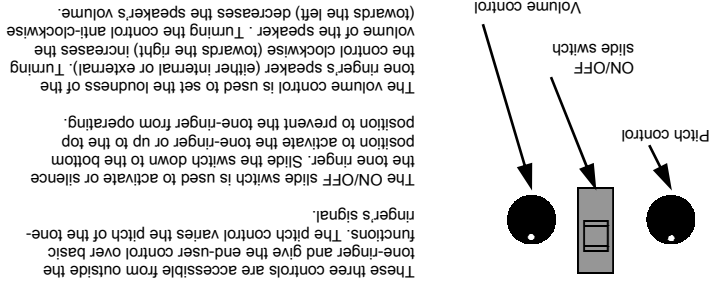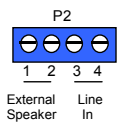

The tone-ringer can also be connected to the telephone line by using a 6 position U.S. modular plug. The connection to the telephone line is wired to pins 3 & 4 (the centre two contacts) of the RJ plug. The RJ plug is then simply inserted into the RJ "Line In" socket on the tone-ringer PCB.

The right-hand pair can be used to connect the ringer to the telephone line. The tone-ringer is wired in parallel across the exchange line (or analog telephone socket).

The left hand pair are used to connect an optional external horn speaker (Cat # K3505). The Internal/External speaker selection jumper (J1) must be moved to "EXT" (position B) if an external speaker is used.

Four screw terminals are provided on terminal block P2.

P2
| 1 | 2 | 3 | 4 |
| External Speaker | | Line In | |

PCB LAYOUT

Labels: Volume, ON/OFF Switch, Mounting hole, Cover-release clip is at centre of tone-ringer case, Pitch Control, Exchange Line RJ socket, Internal/External Speaker Selection, External Speaker Screw Connections, Exchange Line Screw Connections, Hytel (J5), Hytel (J5), Internal Speaker Connection (J3), Normal/Reduced Tinkle (J4), Direct Working (J2), Mounting hole, Cable entry hole in the lower left-hand corner of the tone-ringer case.

INSTALLATION INSTRUCTIONS

1. Remove the front cover by inserting a small flat-bladed screwdriver into the latch-release slot as shown opposite. Lift the front panel off (bottom edge first) and unplug the internal speaker wires from jumper J3.

2. Using the two mounting holes in the tone-ringer case, screw the tone-ringer case to a vertical surface using suitable hardware. The two mounting hole centres are 84mm vertically apart.

3. The tone-ringer is wired in parallel across an exchange line or on analog telephone by:

   (a) Using the "LINE IN" screw terminals (screws 3 and 4 on the right-hand side) on the blue-coloured screw-terminal block. Strip the conductor ends and insert them into connectors 3 & 4 and tighten the two screws.

   P2
   | 1 | 2 | 3 | 4 |
   | External Speaker | | Line In | |

   or

   (b) Using the RJ socket on the tone-ringer PCB. This 6P2C socket uses the two centre contacts (3 & 4) for the exchange line connection. Use a standard 6P modular line cord to connect the tone ringer to the exchange line or analog telephone.
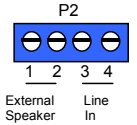
   RJ socket

4. Refit the Internal Speaker connector to jumper J3. Insert the two clips on the top of the cover into the slots at the top of the case. After depressing the catch at the bottom centre of the cover, push the cover firmly onto the case.

5. Slide the switch to the "ON" position and adjust the Pitch and Volume controls.

Two steps are involved to connect an external speaker to the tone-ringer.

(1) Strip the conductor ends, insert them into connectors 1 & 2 (EXTERNAL SPEAKER) on the left-hand side of the blue-coloured screw-terminal block and tighten the two screws.

P2
| 1 | 2 | 3 | 4 |
| External Speaker | | Line In | |

(2) Move the link on jumper J1 to the "EXT" position (the lower two pins).

J1 A / B INT / EXT — Speaker

Extension Tone Ringer K3507
Installation Instructions