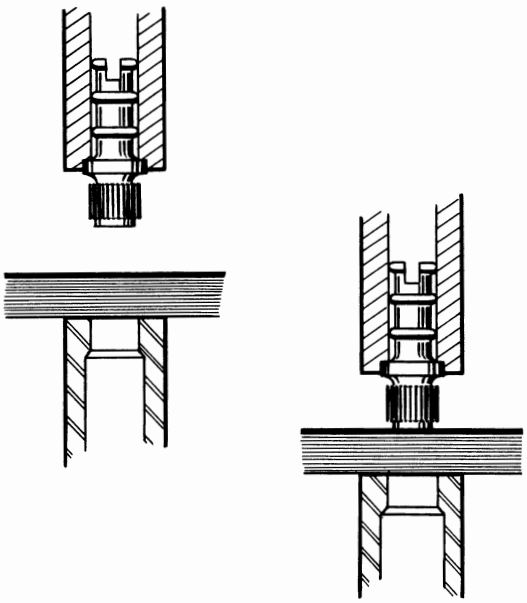
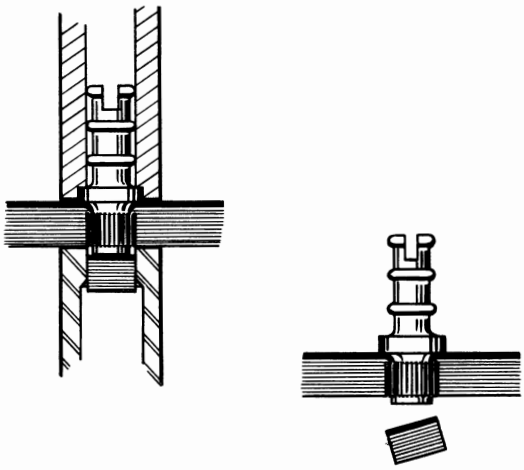
# PRESTINCERT ELECTRICAL/ELECTRONIC SECTION

***COMPONENTS PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***



The revolutionary Prestincert technique was developed for mounting threaded bushes, terminals, etc, on sheet material without having to make preparatory holes or do any subsequent locking. The component makes its own hole and is inserted and securely fixed all in one simple operation, and the saving in time alone quickly pays for the simple tools involved.



GOOD ELECTRICAL CONTACT:

A highly significant feature of the ''Prestincert'' technique in the electrical and electronic industries is the facility for attaching terminals to printed circuit boards both mechanically and electrically in one operation, without soldering. As the ''Prestincert'' component is pressed into the printed circuit board, an annular fillet on the underside of the head comes into contact with the copper cladding. This fillet causes the copper to flow over the edge of the aperture, at the same time cleaning it, and thus ensuring a good electrical contact.

PERFORMANCE UNDER EXTREMES OF ENVIRONMENT:

The electrical performance of these ''Prestincert'' components is of a very high order. The contact resistance to base has not been found to exceed 2 milli-ohms after the vigorous salt spray, electrical temperature and tropical tests laid down by R.C.S.C.

SUITABLE MATERIALS:

Prestincert Brass Bushes and Terminations are designed for use with good quality cold punching laminates (SRBP & SRBF) and low shear strength Aluminium and Aluminium Alloys.

*With some of the thicker materials shown, it is often necessary to open out the die by 10–15% of the material thickness. Our Technical Advisory Service will be pleased to assist where necessary.

GLASS FIBRE MATERIALS:

Some grades of glass laminate have been found suitable – generally they necessitate using a standard die which has been ''opened out'' by 10-15% of the sheet material thickness.

However, resulting from the wide range of glass laminate materials which are now readily available, it is possible that certain extremely hard or brittle laminates may not prove suitable. If in doubt – consult our Technical Advisory Service.

MULTI-INSERTION TOOLING:

Insertions can be carried out either as a series of single point operations, or on a simultaneous multi-insertion basis, according to the dictates of the job.

We shall be pleased to discuss multi-insertion tooling upon request.

SPECIAL PRESTINCERT COMPONENTS:

In addition to the standard items listed, a wide variety of Prestincert components are made to order.

We shall be pleased to consider the manufacture of special Prestincert Components.

PRESTINCERT LIMITED
540 GREAT CAMBRIDGE ROAD
ENFIELD · MIDDLESEX · ENGLAND

# PRESTINCERT TURRET LUGS & SCREW BINDING POSTS

*PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED*

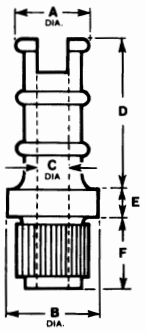
Suitable for most cold punching laminates (SRBP & SRBF), low shear strength Aluminium & Aluminium Alloys. Some of these components can be inserted using tools that suit the L1600 kits, but where marked Ø the insertion tools must be used with C7308 adaptor in conventional presses.

## TURRET LUGS

Material: Brass, B.S.249

Finish: Tin

* See Note regarding Suitable materials – page 13.



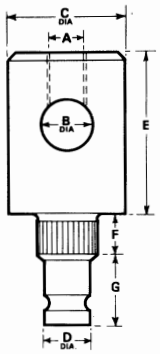

| Part No. | Material Thickness | Minimum Insertion Force | A | B | C | D | E | F | Insertion Tool |
|---|---|---|---|---|---|---|---|---|---|
| Y3511 | 1/16" (1,59mm) | ½ ton | 0.102" (2,6mm) | 0.156" (3,98mm) | 0.045" (1,15mm) | 0.213" (5,41mm) | 0.062" (1,59mm) | 0.062" (1,59mm) | Y11433/ Orange |
| L1539 | 1/16" (1,59mm) | ½ ton | 0.102" (2,6mm) | 0.156" (3,98mm) | 0.045" (1,15mm) | 0.213" (5,41mm) | 0.062" (1,59mm) | 0.100" (2,54mm) | Y11433/ Orange |
| | 3/32" * (2,38mm) | ½ ton | | | | | | | Y11433/ Orange |
| L1538 | 3/32" (2,38mm) | 1 ton | 0.102" (2,6mm) | 0.172" (4,38mm) | 0.045" (1,15mm) | 0.213" (5,41mm) | 0.062" (1,59mm) | 0.130" (3,30mm) | Ø T28800/ Orange/Green |
| | 1/8" * (3,18mm) | 1 ton | | | | | | | Ø T28800/ Orange/Green |
| L1537 | 1/8" (3,18mm) | 1 ton | 0.125" (3,18mm) | 0.187" (4,75mm) | 0.052" (1,33mm) | 0.282" (7,16mm) | 0.078" (1,98mm) | 0.155" (3,94mm) | Ø T27471/ Yellow/Green |
| Y12186 | 1/16" (1,59mm) | ½ ton | 0.125" (3,18mm) | 0.187" (4,75mm) | 0.067" (1,70mm) | 0.282" (7,17mm) | 0.078" (1,98mm) | 0.100" (2,54mm) | T27471/ Yellow/Green |
| | 3/32" * (2,38mm) | 1 ton | | | | | | | Ø T27471/ Yellow/Green |
| Y13813 | 1/16" (1,59mm) | ½ ton | 0.200" (5,1mm) | 0.250" (6,35mm) | 0.110" (2,8mm) | 0.312" (7,93mm) | 0.073" (1,85mm) | 0.130" (3,30mm) | T28629/ Orange/Black |
| | 3/32" * (2,38mm) | 1 ton | NOTE: Standard component Y13813 is NOT designed for use with copper clad material | | | | | | Ø T28629/ Orange/Black |

## SCREW BINDING POSTS for 1/16" (1,59mm) materials

Material: Brass, B.S.249

Finish: Silver

Suitable for insertion with tools that suit the L1600 kits – minimum insertion force ½ ton




| Part No. | A | B | C | D | E | F | G | Tool to suit L1600 Kits |
|---|---|---|---|---|---|---|---|---|
| Y10950 | 6BA | 0.120" (3,05mm) | 0.218" (5,55mm) | 0.093" (2,38mm) | 0.351" (8,92mm) | 0.100" (2,54mm) | 0.125" (3,18mm) | T25992/ Blue/Blue |
| Y20058 | M2,5 | 0.120" (3,05mm) | 0.218" (5,55mm) | 0.093" (2,38mm) | 0.351" (8,92mm) | 0.100" (2,54mm) | 0.125" (3,18mm) | T25992/ Blue/Blue |
| B1211 | 6BA | 0.090" (2,25mm) | 0.187" (4,75mm) | 0.083" (2,10mm) | 0.187" (4,75mm) | 0.080" (2,05mm) | 0.158" (4,00mm) | T26819/ Green/Green |
| B1212 | M2,5 | 0.090" (2,25mm) | 0.187" (4,75mm) | 0.083" (2,10mm) | 0.187" (4,75mm) | 0.080" (2,05mm) | 0.158" (4,00mm) | T26819/ Green/Green |

PRESTINCERT LIMITED
540 GREAT CAMBRIDGE ROAD
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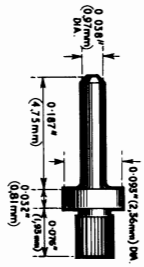
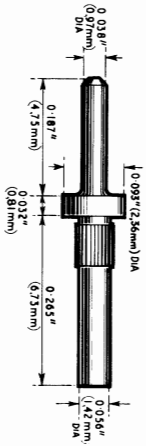
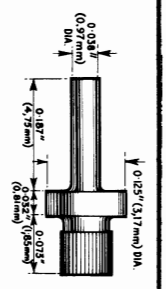
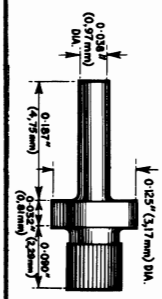
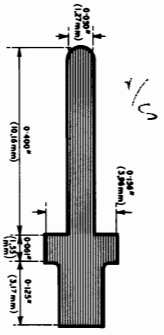
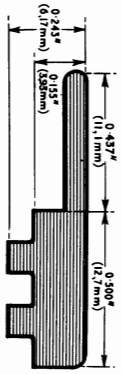
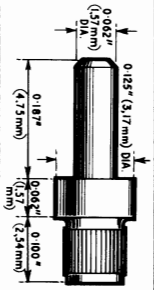
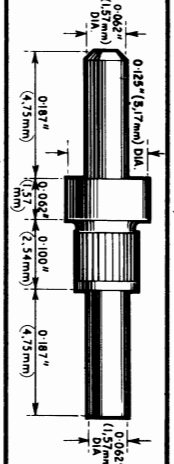
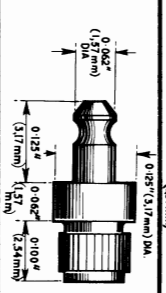
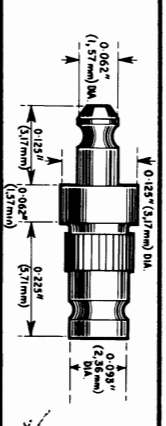
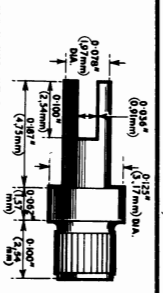
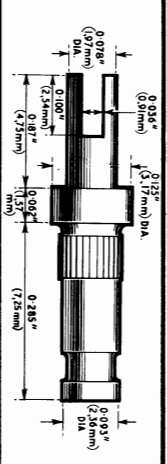
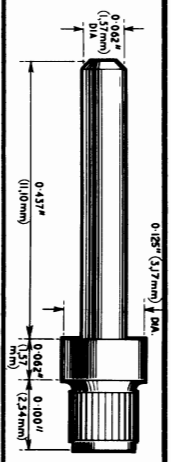
# PRESTINCERT BRASS TERMINALS & WIRE WRAPS

***PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***

Suitable for most cold punching laminates (SRBP & SRBF), low shear strength Aluminium and Aluminium Alloys. Minimum Insertion Force: ½ ton.

All components shown on this page can be inserted using tools that fit the L1600 kits or C7308 adaptor. Material: Brass B.S.249 Finish: Tin. * See Note regarding suitable materials – page 13

| | B1229 | Y11689 | L1598 | Y11985 | L1669 Pressing | L1670 Pressing |
|---|---|---|---|---|---|---|
| Description | Mini-terminal | Double Ended Mini-terminal | Mini-terminal | Mini-terminal | Stand off Wire Wrap Terminal | Wire Wrap Edge Connector |
| Material Thickness | 1/16" (1,59mm) | 1/32" (1,0mm) | 1/16" (1,59mm) | 1/16" (1,59mm) | 1/16" (1,59mm) | 1/16" (1,59mm) |
| Tool to suit L1600 Kit or C7308 Adaptor | T28103/ WHITE/ WHITE Not recommended for glass fibre materials. | T28103/ WHITE/ WHITE Not recommended for glass fibre materials. | Y11433/ WHITE/ | Y11433/ WHITE/ | T24735/BLUE Not recommended for glass fibre materials. Spill size: .050" x .036" (1,27 x 0,91mm) | T26494 Not recommended for glass fibre materials. Spill size: .062" x .032" (1,57 x 0,81mm) |
| |  |  |  |  |  |  |

| | L1673* | L1674 | L1533* | L1534* | B1214* | Y3317* | Y3976* |
|---|---|---|---|---|---|---|---|
| Description | Terminal | Double Ended Terminal | Terminal | Double Ended Terminal | Slotted Terminal | Slotted Double Ended Terminal | Terminal |
| Material Thickness | 1/16" – 3/32" (1,59-2,38mm) | 1/16" (1,59mm) | 1/16" – 3/32" (1,59-2,38mm) | 1/16" – 3/32" (1,59-2,38mm) | 1/16" – 3/32" (1,59-2,38mm) | 1/16" – 3/32" (1,59-2,38mm) | 1/16" – 3/32" (1,59-2,38mm) |
| Tool to suit L1600 Kit or C7308 Adaptor | Y11433/ BLACK | Y11433/ BLACK Not recommended for glass fibre materials. | Y11433/ BLACK Joint Service No: 5940-99-953-3325 | Y11433/ BLACK Not recommended for glass fibre materials. Joint Service No: 5940-99-104-6339 | T26666/ Yellow/Yellow | T26666/ Yellow/Yellow Not recommended for glass fibre materials. | T26858/ Black/Black |
| |  |  |  |  |  |  |  |

PRESTINCERT LIMITED
540 GREAT CAMBRIDGE ROAD
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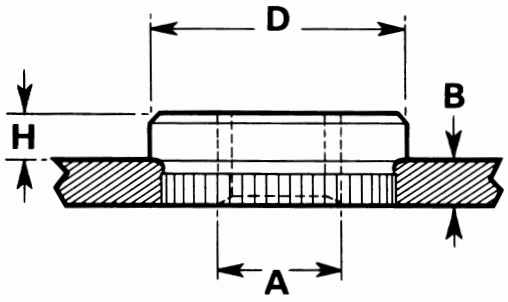
# PRESTINCERT BRASS BUSHES

***PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***

Suitable for most cold punching laminates (SRBP & SRBF), low shear strength Aluminium & Aluminium Alloys. Metric & Unified Bushes have coding ring on external diameter.
All components shown on this page can be inserted using tools that fit the L1600 kits or C7308 adaptor. Material: Brass B.S. 249 Finish: Tin Standard class of Threads where applicable: 2B




| | PART No. | Thread Size A | Sheet Thickness B | Height H | Diameter D | Kit Insertion Tool |
|---|---|---|---|---|---|---|
| BA THREADS | L1540 | 6BA | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.250" (6,35mm) | Y11433/ Red |
| | L1541 (Joint Service No. 5340-99-110-3789) | 4BA | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.312" (7,94mm) | Y11433/ Green |
| | L1542 | 2BA | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.375" (9,53mm) | Y11433/ Yellow |

| | PART No. | Thread Size A | Sheet Thickness B | Height H | Diameter D | Kit Insertion Tool |
|---|---|---|---|---|---|---|
| BA THREADS | L1535 | 6BA | 3/32" (2,38mm) | 0.062" (1,59mm) | 0.250" (6,35mm) | Y11433/ Red |
| | Y.3718 | 4BA | 3/32" (2,38mm) | 0.062" (1,59mm) | 0.312" (7,94mm) | Y11433/ Green |

| | PART No. | Thread Size A | Sheet Thickness B | Height H | Diameter D | Kit Insertion Tool |
|---|---|---|---|---|---|---|
| METRIC ISO & DIN THREADS | Y.11435 | M2,5 | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.236" (6,0mm) | Y11438/ Red/Black |
| | Y.12036 | M2,6 | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.236" (6.0mm) | Y11438/ Red Black |
| | Y.11436 | M3 | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.256" (6,5mm) | Y11438/ Green/Black |
| | Y.11437 | M4 | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.335" (8,5mm) | Y11438/ Yellow/Black |

| | PART No. | Thread Size A | Sheet Thickness B | Height H | Diameter D | Kit Insertion Tool |
|---|---|---|---|---|---|---|
| UNIFIED THREADS | Y.3514 | 4-40 UNC | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.250" (6,35mm) | Y11433/ Red |
| | Y.20045 | 6-32 UNC | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.312" (7,94mm) | Y11433/ Green/Blue |
| | Y.12446 | 10-32 UNF | 1/16" (1,59mm) | 0.062" (1,59mm) | 0.375" (9,53mm) | Y11433/ Yellow/Blue |


PRESTINCERT LIMITED
540 GREAT CAMBRIDGE ROAD
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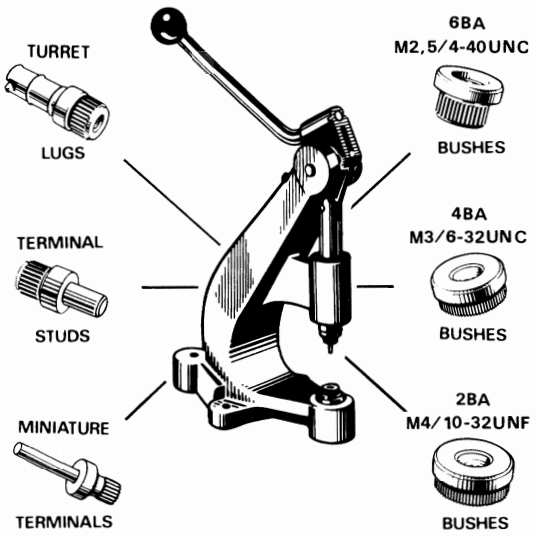
# PRESTINCERT L1600 KITS

***COMPONENTS PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***

Suitable for most cold punching laminates (SRBP & SRBF), low shear strength Aluminium & Aluminium Alloys. Alternatively the tools indicated can be used with C7308 adaptor in conventional presses.

**MAXIMUM PRESS CAPACITY ½ TON**




COMPRISING

a ½-ton press and quantities of six different components most commonly needed, the L1600 kit is ideal for use in the laboratory, the model shop, for work bench test applications and small type production runs.

The kit tools are made from silver steel, and are colour coded for quick reference. The Press has a throat dimension of 3½ inches.

| KIT No. | BUSH THREADS |
|---|---|
| L1600 | BRITISH |
| L1600/M | METRIC ISO |
| L1600/D | METRIC DIN |
| L1600/U | UNIFIED |

Terminals and Tools supplied in all L1600 kits.

| No. | Item | Kit Tool and Colour Code |
|---|---|---|
| L1673 | Terminal | Y11433/Black |
| L1598 | Mini-Terminal | Y11433/White |
| L1539 | Turret Lug | Y11433/Orange |

Threaded Bushes & Tools supplied in L1600

| No. | Thread | Kit Tool & Colour Code |
|---|---|---|
| L1540 | 6BA | Y11433/ Red |
| L1541 | 4BA | Y11433/ Green |
| L1542 | 2BA | Y11433/ Yellow |

Threaded Bushes & Tools supplied in L1600/M

| No. | Thread | Kit Tool & Colour Code |
|---|---|---|
| Y11435 | M2,5 | Y11438/ Red/Black |
| Y11436 | M3 | Y11438/ Green/Black |
| Y11437 | M4 | Y11438/ Yellow/Black |

Threaded Bushes & Tools supplied in L1600/D

| No. | Thread | Kit Tool & Colour Code |
|---|---|---|
| Y12036 | M2,6 | Y11438/ Red/Black |
| Y11436 | M3 | Y11438/ Green/Black |
| Y11437 | M4 | Y11438/ Yellow/Black |

Threaded Bushes & Tools supplied in L1600/U

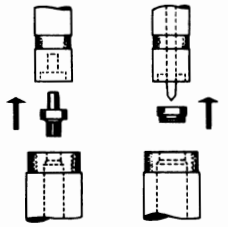
| No. | Thread | Kit Tool & Colour Code |
|---|---|---|
| Y3514 | 4-40 UNC | Y11433/ Red |
| Y20045 | 6-32 UNC | Y11433/ Green/Blue |
| Y12446 | 10-32 UNF | Y11433/ Yellow/Blue |

## FEATURES

''Snap-in'' interchangeable tools, released by quarter turn.

Tools and Component Containers Colour Coded.

Adjustable stop – to suit material thickness.



Component loading – (KNURL DOWNWARDS)

PRESTINCERT LIMITED
540 GREAT CAMBRIDGE ROAD
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# PRESTINCERT COMPONENT— TOOLING REFERENCE

***COMPONENTS PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***

L1600 Kits are designed to accept a maximum ½ ton loading – for loads in excess of this use C7308 adaptor in conventional press.

## COMPONENT REFERENCE

| Component Number | Tool Number |
|---|---|
| B1211 | T26819/GREEN/GREEN |
| B1212 | T26819/GREEN/GREEN |
| B1214* | T26666/YELLOW/YELLOW |
| B1229 | T28103/WHITE/WHITE |
| L1533* | Y11433/BLACK |
| L1534* | Y11433/BLACK |
| L1535 | Y11433/RED |
| L1537 | T27471/YELLOW/GREEN |
| L1538* | T28800/ORANGE/GREEN |
| L1539* | Y11433/ORANGE |
| L1540 | Y11433/RED |
| L1541 | Y11433/GREEN |
| L1542 | Y11433/YELLOW |
| L1598 | Y11433/WHITE |
| L1669 | T24735/BLUE |
| L1670 | T26494 |
| L1671 | T24918/GREY or C7354 |
| L1673* | Y11433/BLACK |
| L1674 | Y11433/BLACK |

| Component Number | Tool Number |
|---|---|
| Y3317 * | T26666/YELLOW/YELLOW |
| Y3511 | Y11433/ORANGE |
| Y3514 | Y11433/RED |
| Y3718 | Y11433/GREEN |
| Y3976* | T26858/BLACK/BLACK |
| Y10950 | T25992/BLUE/BLUE |
| Y11435 | Y11438/RED/BLACK |
| Y11436 | Y11438/GREEN/BLACK |
| Y11437 | Y11438/YELLOW/BLACK |
| Y11689 | T28103/WHITE/WHITE |
| Y11985 | Y11433/WHITE |
| Y12036 | Y11438/RED/BLACK |
| Y12186* | T27471/YELLOW/GREEN |
| Y12446 | Y11433/YELLOW/BLUE |
| Y13813* | T28629/ORANGE/BLACK |
| Y20045 | Y11433/GREEN/BLUE |
| Y20058 | T25992/BLUE/BLUE |

* See Note regarding suitable materials – page 13

## TOOL REFERENCE

| Colour Code | Tool Number | Suitable for |
|---|---|---|
| BLACK | Y11433/BLACK | L1533, L1534, L1673, L1674 |
| BLACK/BLACK | T26858/BLACK/BLACK | Y3976 |
| BLUE | T24735/BLUE | L1669 |
| BLUE/BLUE | T25992/BLUE/BLUE | Y10950, Y20058 |
| GREEN | Y11433/GREEN | L1541, Y3718 |
| GREEN/BLACK | Y11438/GREEN/BLACK | Y11436 |
| GREEN/BLUE | Y11433/GREEN/BLUE | Y20045 |
| GREEN/GREEN | T26819/GREEN/GREEN | B1211, B1212 |
| GREY | T24918/GREY | L1671 into L1672 |
| ORANGE | Y11433/ORANGE | L1539, Y3511 |
| ORANGE/BLACK | T28629/ORANGE/BLACK | Y13813 |
| ORANGE/GREEN | T28800/ORANGE/GREEN | L1538 |
| RED | Y11433/RED | L1535, L1540, Y3514 |
| RED/BLACK | Y11438/RED/BLACK | Y11435, Y12036 |
| WHITE | Y11433/WHITE | L1598, Y11985 |
| WHITE/WHITE | T28103/WHITE/WHITE | B1229, Y11689 |
| YELLOW | Y11433/YELLOW | L1542 |
| YELLOW/BLACK | Y11438/YELLOW/BLACK | Y11437 |
| YELLOW/BLUE | Y11433/YELLOW/BLUE | Y12446 |
| YELLOW/GREEN | T27471/YELLOW/GREEN | L1537, Y12186 |
| YELLOW/YELLOW | T26666/YELLOW/YELLOW | B1214, Y3317 |
| – | T26494 | L1670 |
| – | C7354 | L1671 into Y13750 |

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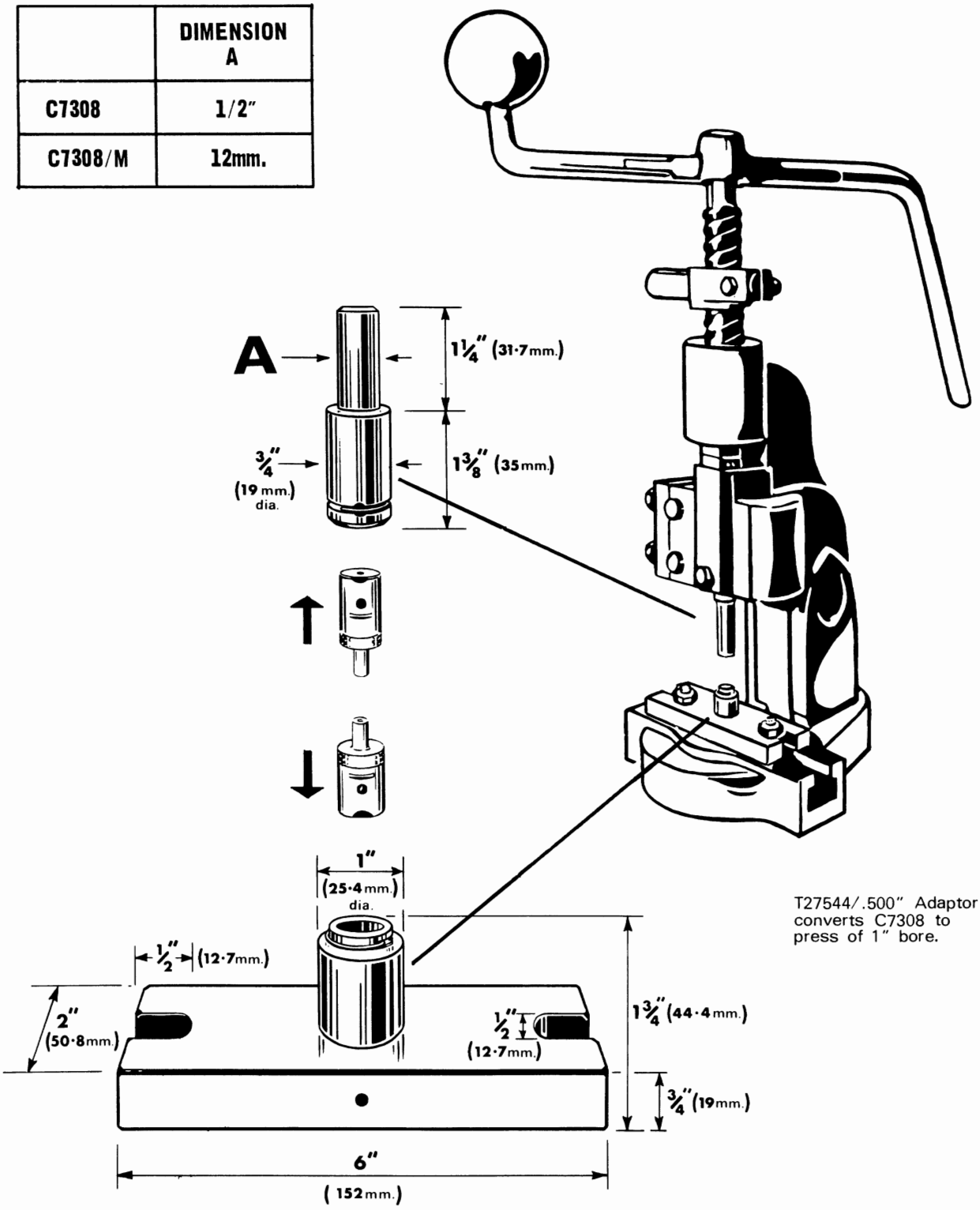
# PRESTINCERT ADAPTOR FOR KIT TOOLS

***COMPONENTS PUNCHED DIRECTLY INTO SHEET MATERIALS — NO FIXING HOLES REQUIRED***

**C7308** adaptor converts all Kit Tools and Supplementary Tools to conventional presses.

| | DIMENSION A |
|---|---|
| C7308 | 1/2" |
| C7308/M | 12mm. |




T27544/.500" Adaptor converts C7308 to press of 1" bore.

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# PRESTINCERT STEEL EARTH PINS & PTFE INSULATING BUSHES

*PUNCHED DIRECTLY INTO SHEET METAL — NO FIXING HOLES REQUIRED*

## STEEL EARTH PIN

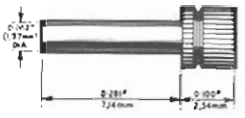
TYPE: Y3684

Suitable for:
20, 18 & 16SWG (1mm–1,59mm) steel,
18,16SWG (1,25mm–1,59mm) aluminium

Material: STEEL EN.1.A, B.S.970

Finish: Tin

Insertion Tool: T26733



## STEEL EARTH PIN

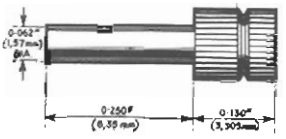
TYPE: Y12917

Suitable for:
14, 12 & 10SWG (2mm–3,25mm) aluminium

Material: STEEL EN.1.A., B.S.970

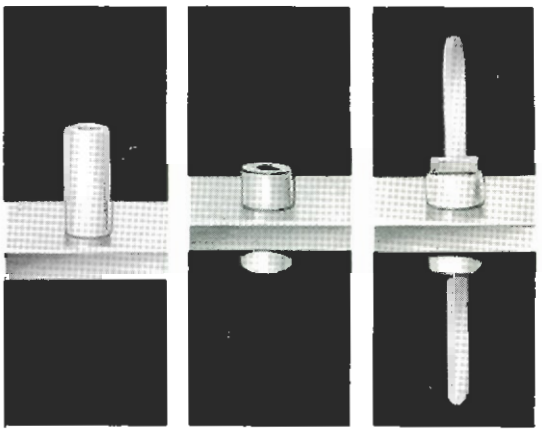
Finish: Tin

Insertion Tool: T26733



## PTFE INSULATING BUSHES

suitable for insertion into most grades of aluminium



When taking electrical leads through a chassis, these Prestincert insulating bushes effect considerable economies in time and labour over conventional methods since they form their own holes and are securely mounted in a single operation. The bushes accept wires of up to 0,032" (0,8mm) diameter or, alternatively, terminal post L1671 for wrapped wire or soldered connections is available.

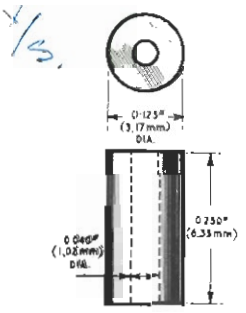
Made of P.T.F.E. these bushes have excellent electrical properties. Their insulation resistance exceeds 2 x $10^6$ megohms, and the breakdown voltage is greater than 2 kV. They will withstand the full rigours of environmental conditions anywhere, and are unlikely to be damaged in normal soldering processes.

Conventional presses can be used for insertion, either hand operated or fully automatic.

TYPE: L1672

Material Thickness:
1/16" (1,59mm)

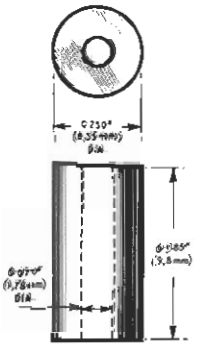
Insertion Tool:
T24686



TYPE: Y13750

Material Thickness:
3/16" (5mm)

Insertion Tool:
C7329



### LEAD THROUGH TERMINAL POST No.L1671

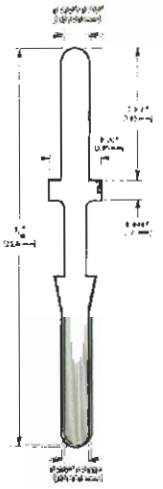
This component is designed for insertion into P.T.F.E. Bushes L1672 & Y13750 to give an insulated, non-rotating, lead-through terminal.

Material: HARD BRASS, B.S.265
Finish: Tin

Insertion Tool for inserting L1671 into L1672:
**T24918/GREY**

Insertion Tool for inserting L1671 into Y13750:
**C7354**

The insertion tool fits directly into the small hand press supplied in the L1600 Prestincert Tool Kit, and by means of adaptor C7308 will also fit most standard bench presses.



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