



PRESTINCERT ELECTRONIC

PRESTINCERT components are specifically designed to punch their own fixing hole in a pre-determined position, providing a secure mechanical and low contact resistance circuit board assembly in one press stroke.

The standard range of Prestincerts for electro-mechanical applications includes brass and stainless steel threaded bushes and stand-off spacers, screw wire wrap and solder terminations, all of which are suitable for punching SRBP, SRBF and glass laminates, low shear strength aluminium and aluminium alloy panels.

GOOD ELECTRICAL CONTACT

A significant feature of the Prestincert technique 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 makes contact with the copper cladding, causing copper to flow over the edge of the aperture, cleaning it and ensuring a good electrical contact.

PERFORMANCE UNDER ENVIRONMENTAL EXTREMES

The contact resistance of the Prestincert components has not been found to exceed 2 milli-Ohms after standard vigorous salt spray, electrical temperature and tropical testing.

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 to 15 per cent of the sheet material thickness - but the wide range of glass laminate materials now available means certain extremely hard or brittle laminate may not prove suitable. If in doubt, consult our Technical Advisory Service.

MULTI-INSERTION TOOLING

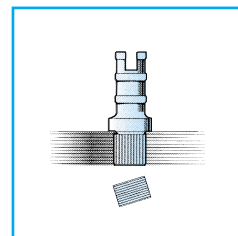
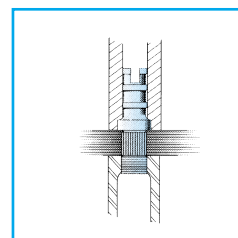
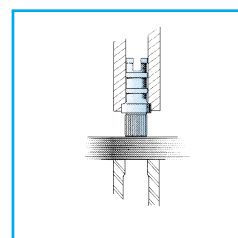
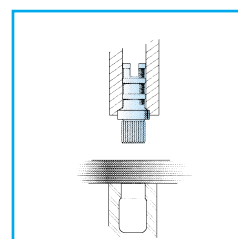
Insertions can be carried out either as a series of single point operations or on a simultaneous multi-insertion basis, according to the dictates of the job. We shall be pleased to discuss multi-insertion tooling upon request.

SPECIAL PRESTINCERT COMPONENTS

In addition to the standard items listed, we shall be pleased to consider the manufacture of special Prestincert components upon request.

PLUS POINTS

- Fast and easy push fit - no pre-drilled hole needed
- Simple tooling and kit press available
- Supplied plated from stock
- Good electrical contact



IN ADDITION TO THE ITEMS DETAILED, A WIDE VARIETY OF PRESTINCERT COMPONENTS ARE/CAN BE CUSTOM MADE TO ORDER.

PRESTINCERT - Turret Lugs

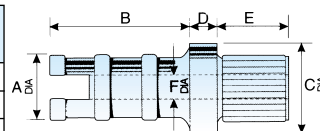
PUNCHED DIRECTLY INTO SHEET MATERIALS - NO FIXING HOLES REQUIRED

Suitable for most cold punching laminates (SRBP and SRBF), low shear strength aluminium and aluminium alloys.

Material: Brass Finish: Tin

A	B	C	D	E	F	Material thickness		Part number	Insertion tools
						Min	Max		
2.6	5.4	4.0	1.6	2.5	1.1	2.4	2.4	L1539	Y11433/Orange
2.6	5.4	4.4	1.6	3.3	1.1	3.2*	None*	L1538	T28800/Orange/Green
3.2	7.2	4.8	2.0	3.9	1.3	3.2*	None*	L1537	T27471/Yellow/Green
3.2	7.2	4.8	2.0	2.5	1.7	2.4	1.6*	Y12186	T27471/Yellow/Green

* Not suitable for L1600 kit press - use C7308



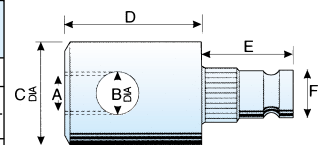
PRESTINCERT - Screw Binding Posts

PUNCHED DIRECTLY INTO SHEET MATERIALS - NO FIXING HOLES REQUIRED

Suitable for most cold punching laminates (SRBP and SRBF), low shear strength aluminium and aluminium alloys.

Material: Brass Finish: Silver

A	B	C	D	E	F	Material thickness		Part number	Insertion tools
						Min	Max		
6BA	3.0	5.5	8.9	5.7	2.4	1.6	1.6	Y10950	T25992/Blue/Blue
6BA	2.2	4.8	4.8	6.0	2.1	1.6	1.6	B1211	T26819/Green/Green
M2.5	3.0	5.5	8.9	5.7	2.4	1.6	1.6	Y20058	T25992/Blue/Blue
M2.5	2.2	4.8	4.8	6.0	2.1	1.6	1.6	B1212	T86819/Green/Green



PRESTINCERT - Solder Terminals and Wire Wraps

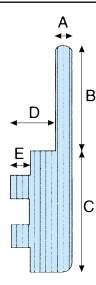
DIMENSIONAL DATA

M = Maximum board thickness

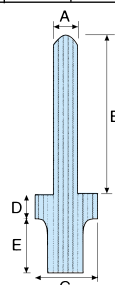
Note - For applications requiring a higher insertion force, insertion tools must be used with C7308 adaptor in conventional presses.

A	B	C	D	E	F	G	M	Part number	Insertion tools
1.57x0.81	11.1	12.7	2.4	2.2	-	-	1.6	L1670	T26494
1.27x0.91	10.2	4.0	1.6	3.2	-	-	1.6	L1669	T24735/Blue
0.97	4.8	2.4	0.8	1.9	-	-	1.6	B1229	T28103/White/White
0.97	4.8	3.2	0.8	1.9	-	-	1.6	L1598	Y11433/White
0.97	4.8	3.2	0.8	2.3	-	-	1.6	Y11985	Y11433/White
1.57	4.8	3.2	1.6	2.5	-	-	2.4	L1673	Y11433/Black

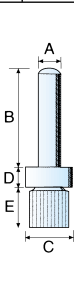
* Not suitable for glass boards



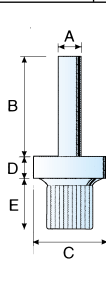
*L1670



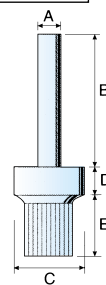
*L1669



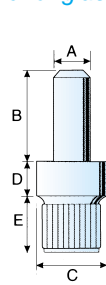
*B1229



L1598



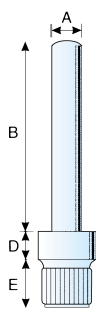
Y11985



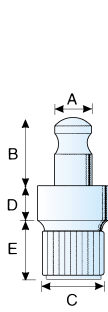
L1673

A	B	C	D	E	F	G	M	Part number	Insertion tools
1.57	11.1	3.2	1.6	2.5	-	-	2.4	Y3976	T26858/Black/Black
1.57	3.2	3.2	1.6	2.5	-	-	2.4	L1533	Y11433/Black
1.97	4.8	3.2	1.6	2.5	-	0.9	2.4	B1214	T26666/Yellow/Yellow
0.97	4.8	2.4	0.8	6.7	1.4	-	1.0	Y11689	T28103/White/White
1.57	4.8	3.2	1.6	7.3	1.6	-	1.6	L1674	Y11433/Black
1.57	3.2	3.2	1.6	5.7	2.4	-	2.4	L1534	Y11433/Black
1.97	4.8	3.2	1.6	7.3	2.4	0.9	2.4	Y3317	T26666/Yellow/Yellow

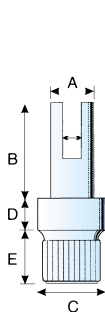
* Not suitable for glass boards



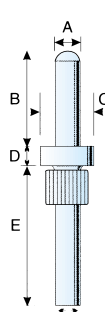
*Y3976



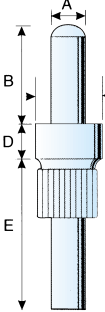
*L1533



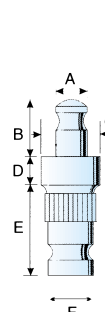
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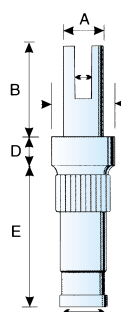
Y11689



*L1674



L1534



*Y3317

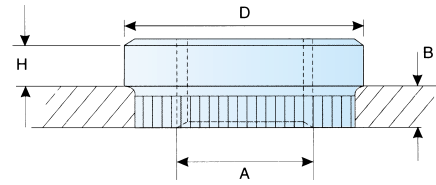
PRESTINCERT - Bushes Threaded

DIMENSIONAL DATA FOR THREADED BUSHES

PUNCHED DIRECTLY INTO SHEET MATERIALS - NO FIXING HOLES REQUIRED

Suitable for most cold punching laminates (SRBP and SRBF), low shear strength aluminium and aluminium alloys. Metric and Unified Bushes have coding ring on external diameter.

All components shown here can be inserted using tools that fit the L1600 kits or C7308 adaptor.



BRASS BUSHES - Tin Plated

A	B	D	H	Part number	Insertion tools
6 BA	2.4	6.35 (0.25")	1.6	L1535	Y11433/Red
6 BA	1.6	6.35 (0.25")	1.6	L1540	Y11433/Red
4 BA	1.6	7.94 (0.312")	1.6	L1541	Y11433/Green
2 BA	1.6	9.53 (0.375")	1.6	L1542	Y11433/Yellow
M 2.5 ISO	1.6	6.0	1.6	Y11435	Y11438/Red/Black
M 2.6 DIN	1.6	6.0	1.6	Y12036	Y1 1438/Red/Black
M 3 ISO	1.6	6.5	1.6	Y11436	Y11438/Green/Black
M 4 ISO	1.6	8.5	1.6	Y11437	Y11438/Yellow/Black
4-40 UNC	1.6	6.35 (0.25")	1.6	Y3514	Y1 1433/Red
6-32 UNC	1.6	7.94 (0.312")	1.6	Y20045	Y11433/Green/Blue
10-32 UNF	1.6	9.53 (0.375")	1.6	Y12446	Y11433/Yellow/Blue

STAINLESS STEEL BUSHES

A	B	D	H	Part number	Insertion tools
M 2.5	1.6	5.30	1.6	B1974	C9857
M 3	1.6	6.35	1.6	B1975	C9850
M 4	1.6	7.94	1.6	B1976	C9858
M 2.5	2.0	5.30	1.6	B1977	C9857
M 3	2.0	6.35	1.6	B1978	C9850
M 4	2.0	7.94	1.6	B1979	C9858

STEEL BUSHES - Tin Plated

A	B	D	H	Part no.	Insertion tools
M 3	2.0	6.50	1.6	B1829	Y11438/Green/Black
M 4	2.0	8.50	1.6	B2074	Y11438/Yellow/Black

PRESTINCERT - Spacers

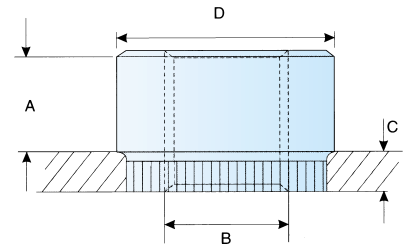
DIMENSIONAL DATA FOR SPACERS

PUNCHED DIRECTLY INTO SHEET MATERIALS - NO FIXING HOLES REQUIRED

Suitable for most cold punching laminates (SRBP and SRBF), low shear strength aluminium and aluminium alloys.

BRASS SPACERS - Threaded

A	B	C	D	Direct Electrical Contact	Part number	Insertion tools
1.0	M 2.5	1.6	6.0	Yes	B1969	C9841
1.0	M 3	1.6	6.5	Yes	B1970	C9834
1.0	M 4	1.6	6.5	Yes	B1972	C9840
3.0	M 3	1.6	6.5	No	B2106	C9997
4.0	M 2.5	1.6	6.0	No	B2096	C9989
5.0	M 2.5	1.6	6.5	No	B2089	C9979
5.0	M 3	1.6	6.5	No	B1535	C8949
6.4	M 3	1.6	6.5	No	B2160	C10060
10.0	M 3	1.6	6.5	No	B1536	C8950
14.0	M 3	1.6	6.5	No	B1809	C9627



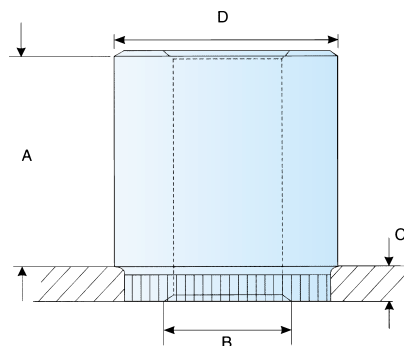
THREADED HOLE

BRASS SPACERS - Plain hole

A	B	C	D	Direct Electrical Contact	Part number	Insertion tools
3.5	3.4	1.6	6.5	No	B1871	C9749
5.0	3.4	1.6	6.5	No	B1352T	C7568
5.5	3.4	1.6	6.5	No	B2143	C7568
6.0	4.2	1.6	7.9	No	B2121	C10014
10.0	3.4	1.6	6.5	No	B1357	C7653

STAINLESS SPACERS - Threaded

A	B	C	D	Direct Electrical Contact	Part number	Insertion tools
1.0	M 2.5	1.6	6.0	Yes	B2077	C9841
1.0	M 3	1.6	6.3	Yes	B2078	C9880
3.5	M 4	1.6	7.9	No	B2154	C10052
4.0	M 3	1.6	6.3	No	B2059	C9853
4.0	M 3	2.0	6.3	No	B2060	C9853
4.0	M 3	2.4	6.3	No	B2061	C9853
8.0	M 3	1.6	6.3	No	B2153	C10051



PLAIN HOLE

STAINLESS SPACERS - Plain hole

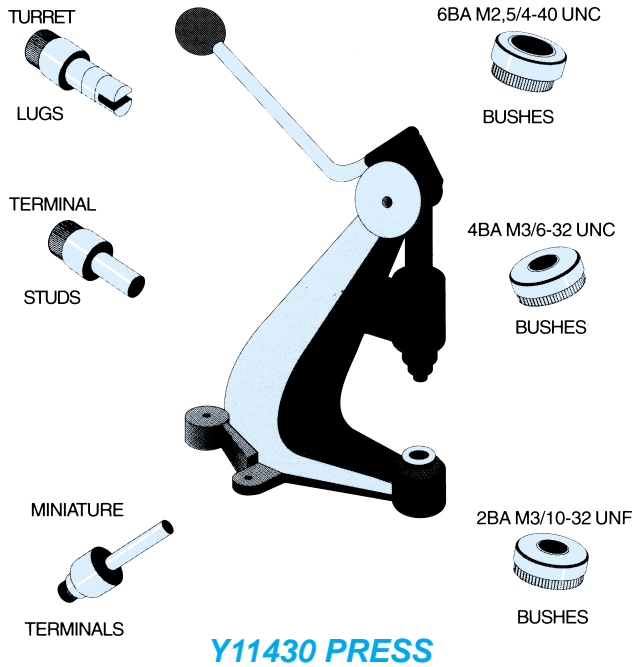
A	B	C	D	Direct Electrical Contact	Part number	Insertion tools
3.2	2.6	1.6	6.0	No	B2130	C10026
4.0	3.4	1.6	6.3	Yes	B2068	C9856
6.5	2.7	1.6	6.0	No	B2056	C9852
6.5	2.7	2.0	6.0	No	B2057	C9852
6-5	2.7	2.4	6.0	No	B2058	C9852

All dimensions in millimetres

PRESTINCERT - Tooling - L1600 Kits

COMPONENTS PUNCHED DIRECTLY INTO SHEET MATERIALS - NO FIXING HOLES REQUIRED

Suitable for most cold punching laminates (SRBP and SRBF), low shear strength aluminium and aluminium alloys.



Y11430 PRESS

Comprising Y11430 ½ ton press - together with quantities of six different components most commonly needed, the L1600 kit is ideal 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.

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

Terminals and Tools supplied in all L 1600 kits

No.	Thread	Kit Tool & Colour Code
L1673	Terminal	Y11433/Black
L1598	Mini-Terminal	Y11433/White
L1539	Turret Lug	Y11433/Orange

PRESTINCERT - Adaptor for Kit Tools

C7308 ADAPTORS ENABLE SNAP-IN TOOLS TO BE USED IN CONVENTIONAL PRESSES

Part No.	Dimension A
C7308	1"
C7308/M	12mm

