of DHA, Bankstown, NSW, Australia. This document may have local amendments making it differ from the United Kingdom-origin material. 'Recognise text' has been run on this document; it has been somewhat successful. Don't consider text searches conclusive, for example. The documents would have been used at Bankstown for Mosquito (Royal Australian Air Force), Vampire (RAAF and Royal Australian Navy) and Drover

De Havilland Aircraft Drawing Office Instructions, as copied from the library

(a civilian type) development and production, and for maintenance support of other DH types such as Sea Venom (RAN). Period of use would 1940s through to 1960s.

De Havilland Aircraft, Aircraft Technical Specifications, DH.100 Vampire,

De Havilland Aircraft, Aircraft Technical Specifications, DH.100 Vampire, DH.115 Vampire, DH.98 Mosquito, DHA3 Drover

De ' Havilland

Drawing Office

Instruction Sheets

ADS





THE DE HAVE LAND AIRCRAFT PTY. LTD.

DATE - 18 AUG 1943

PRINTING IT ARTHERT

Page Reserved For Contents with links.

DRAWING OFFICE INSTRUCTION SHEETS

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TECHNICAL LIBRARY

ENGINEERING DEPARTMENT

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DRAWN: J.K.W.

CHECKED: LAB.

138UE NO .:

AIRCRAFT DIVISION.

AUSTRALIAN DATA SHEETS.

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			1
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STANDARD WIRE GAUGES.

					-		
S.W.G.	/N.	S.W.G.	IN.	S.W.G.	/N.	S.W.G.	IN.
1-	.300	9	.144	17	.056	25	.020
2	.276	10	.128	18	.048	26	.018
3	-252	11	-116	19	.040	27	.0164
4	-232	12	104	20	.036	28	.0/48
5	-212	/3	-092	2/	-032	29	-0/36
6	192	14	-080	22	-028	30	-0124
- 7	./76	15	.072	23	.024		
8	.160	. 16	-064	24	.022		

FRACTIONS & DECIMAL EQUIVALENTS.

32 3 3 64	-015625 -03125 -046875		<u>/7</u> 32	35 64	-5/5625 -53/25 -546875
	-0625	9			- 5625
	- 078125	10	19	37 64	578/25
32 7 7 64	·09375 ·109375	-	32	39 64	· 59375 · 609375
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3 64	-1875	11/6		64	6875
	- 203/25	16		45 64	-703125
	- 21875		32		-71875
32 /5	- 234375		32	47 64	-734375
	- 25	3-			- 75
	- 265625		25	49 64	- 765625
	-28125		25 32		78/25
	- 296875	/3		51 64	-796875
5 64 21	3/25	13 _		53	8125
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and the second	-390625	8 .		57 64	890625
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75	- 4375	15 16			- 9375
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	- 46875		31-		-96875
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2	-500000	1-			1.000000
DATE 26.8.42. TITLE	STANDARD	WIRE	GAUG	E. A	DS. Nol.
	TONS& DECI			244	3. 1401.

FRACTIONS & DECIMAL EQUIVALENTS.

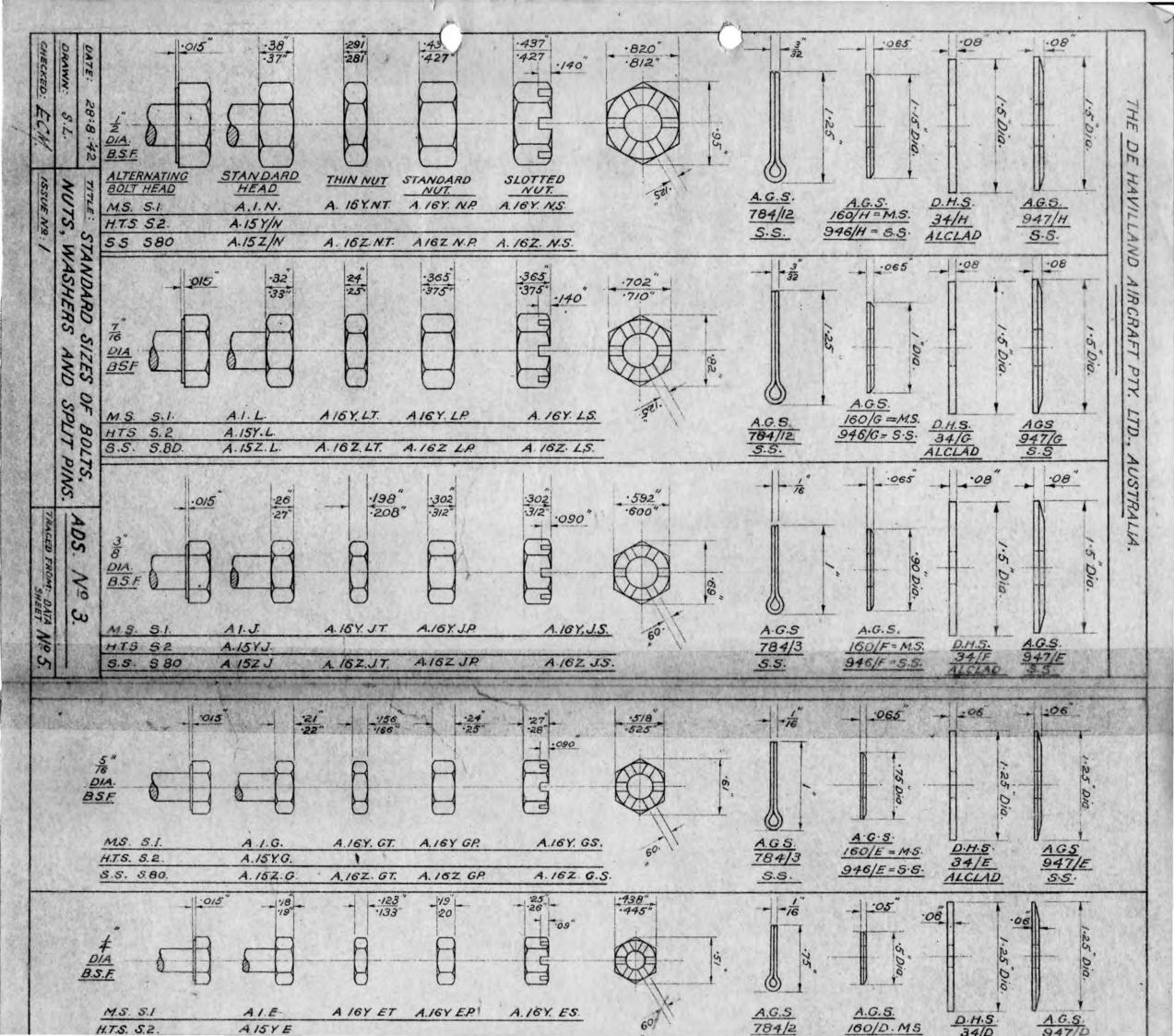
A.D.S. DATA SHEET No.2.

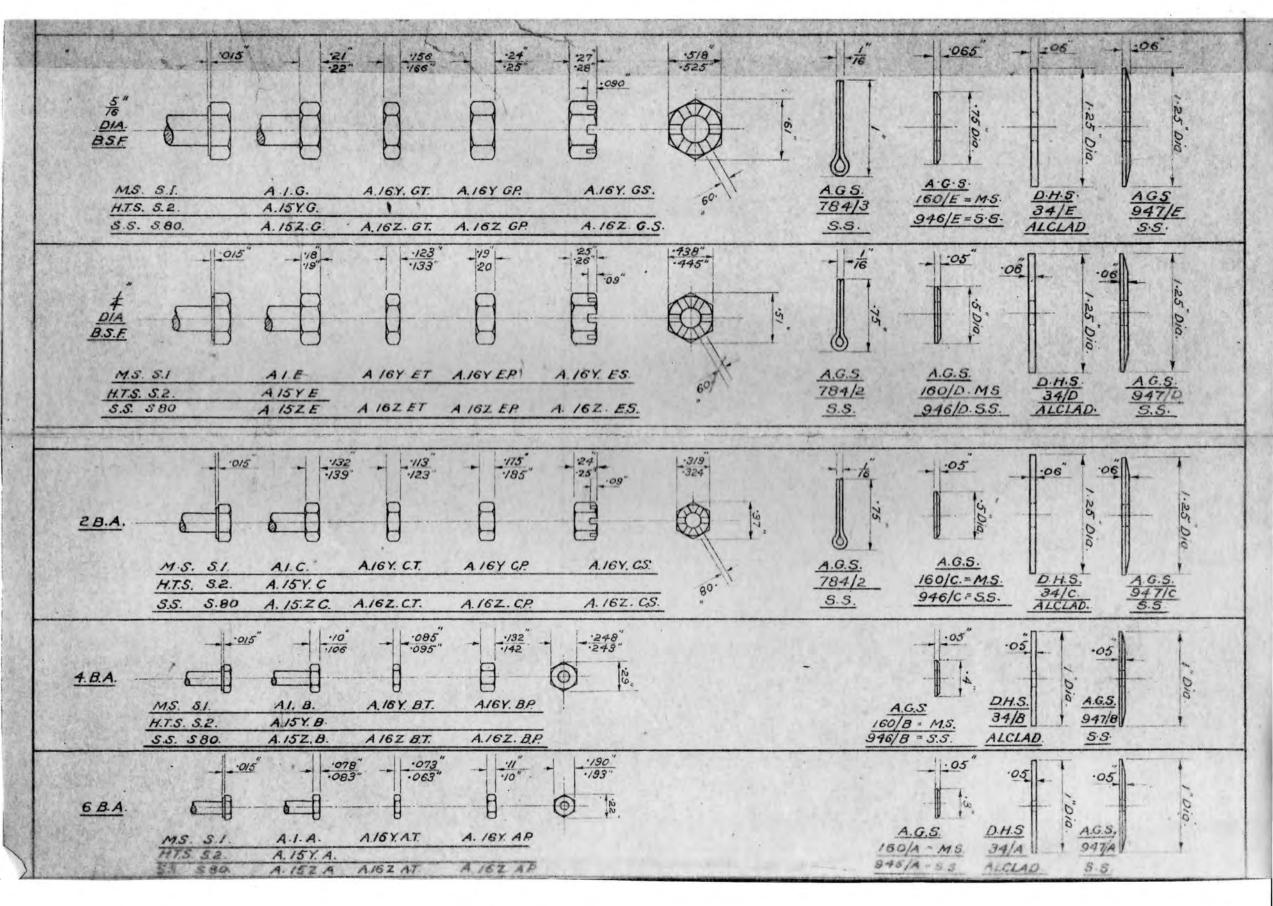
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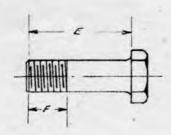
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ISSUE NO

7	HE DE H	AVILLAND	D AIRCR	AFT PTY.	LTD., AU.	STRALIA.	-
LETTER DRILLS	INCHES	NUMBER	INCHES	NUMBER	INCHES	NUMBER	INCHES
Z	4/3	1	228	27	144	53	0595
Y	.404	2	-221	28	1405	54	.055
X	397	3	-213	29	136	55	.052
W	386	4	-209	30	1285	56	0465
V	-377	5	2055	31	.120	57	.043
U	368	6	204	32	116	58	-042
Ť.	-358	7	201	33	-113	59	.041
5	-348	8	199	34	111	60	040
R	.339	9	.196	35	-110	61	039
Q	332	10	·1935	36	.1065	62	-038
P	323	11	191	37	104	63	.037
0	3/6	12	189	38	.1015	64	036
N	302	13	185	39	.0395	65	035
M	-295	14	182	40	.093	66	033
4	-290	15	180	41	096	67	-032
K	28/	16	.177	42	0935	68	031
1	277	17	-173	43	089	69	-02925
1	-272	18	1695	44	086	70	028
H	266	19	1/66	45	082	71	-026
G	26/	20	161	46	081	72	.025
F	-257	21	159	47	0785	73	024
E	250	22	157	48	-076	74 .	0225
0	246	23	154	49	.073	75	.021
C	.242	24	152	50	.070	76	.020
В	-238	25	·/495	51	.067	77	018
A	-234	26	./47	52	.0635	78	-016
						79	-0145
						80.	0135
DATE 25 &		D D	RILL S	IZES		ADS 2	2
CHECKED A		SSUE NO 1				TRACED A	ROM 7.







1	6BA			4BA			2BA		32	BSF		7	BSF.	t	
PART	E.ms.	FINS	PART	EIN	FINS.	PART	EINS	FINS	PART	EINS	FINS	PART	EINS	FINS	
A 4	.4	.35	84	.4	.35	C4	.4	35	D4	.4	.35	E4	.4	35	
AG	-6	.45	86	.6	.45	c6	-6	.50	26	.6	-55	£6	.6	55	
AB	.8	.45	88	.8	.45	CB	.8	-50	DB	.8	-55	EB	.8	55	
A10	1.0	.45	810	1.0	.45	010	1.0	.50	D10	1.0	.55	EIO	10	55	
A14	1.4	-65	814	1.9	.65	C14	1.4	.70	D/4	1.4	.75	E14	1.4	- 75	
A /8	/-8	.65	8/8	1.8	.65	C/8	1.8	.70	118	1.8	.75	E/8	1.8	.75	
A 22	2.2	.65	822	2.2	.65	C22	2.2	.70	D22	2.2	.75	E22	2.2	-75	
A 26	2.6	.65	826	2.6	65	026	2.6	.70	D26	2.6	-75	E26	2.6	.75	
A 30	3.0	65	B30	3.0	.65	C30	3.0	.70	230	3.0	. 75	E30	3.0	.75	
A35	3.5	.70	835	3.5	.70	C35	3.5	-80	135	3.5	.80	E35	3.5	80	
A40	4.0	.70	840	4.0	.70	C40	40	80	140	4.0	-80	E40	4.0	80	
A 45	4.5	.70	B45	4.5	.70	C45	4.5	.80	D95	45	-80	E45	4.5	.80	
A50	5.0	.70	850	50	-70	C50	5.0	.80	050	5.0	-80	E50	5.0	.80	
A 55	5.5	1.00	855	5.5	100	C55	5.5	1.00	255	5.5	100	E55	5.5	100	
A60	16.0	1.00	B60	6.0	100	C 60	6.0	1.00	D60	6.0	1.00	E60	60	1-00	
32	BSF		5.	5 BS.F			3" BSF			76 BSF			& BSF		
PART	Ems	FINS	PART	E. INS	FINS	PART	E INS.	FINS	PART	EINS	FINS	PART	EINS	FINS	
F 4	.4	:35	G 4	.4	.35							-4	1 10000		
F 6	. 6	-60	96	.6	.60	16	.6	-55					-		
FB	.8	-60	48	.8	.60	U 8	8	65	48	. 8	.70	NB	. 8	25	
F 10	1.0	.60	G 10	1.0	.60	J/0	1.0	65	110	1.0	.70	NIO	10	. 75	
F 14	1.4	.80	G14	1.4	.80	114	1.4	85	L14	14	90	N/4	14	100	
F18	1.8	.80	G/8	1.8	.80	J/8	1.8	85	L18	1.8	-90	N 18	18	100	
F22	2.2	.80	G22	2.2	.80	J22	2.2	85	L22	2.2	.90	N22	2.2	100	
F 26	2.6	.80	G26	2.6	.80	J26	2.6	85	L26	2.6	.90	N26	2.6	1.00	
F30	3.0	.80	G30	3.0	-80	130	3-0	.85	L30	3.0	-90	N30	30	100	
F 35	3.5	.30	G 35.	3.5	.90	J35	3.5	.95	435	3.5	1.05	N 35	3.5	1.10	
F40	4.0	.90	640	4.0	.90	140	40	.95	140	90	1.05	N40	4.0	110	
F45	4.5	90	G 45	4.5	.90	145	4.5	-95	445	4.5	1.05	N45	4.5	110	
F50	50	.90	G50	5.0	.90	150	50	.95	150	50	1.05	N 50	50	1.10	
F55	5 E	100	G 55	5.5	1.00	J 55	5.5	1.00	155	5.5	1.05	N 55	5.5	1.10	
F60	6.0	100	960	6.0	100	160	6.0	1.00	160	60	1.05	N 60	60	1.10	

MATERIAL :-

MILD STEEL TO SPECT SI.

MARKING -

ALL BOLTS OF 4 NORMAL SIZE & OVER
SHALL HAVE THE APPROPIATE PART NUMBER
APPLIED ON THE UPPER FACE OF THE HEAD

STANDARD FINISH -

ZINC OR CHOMIUM.

DATE 27-8 42	STANDARD BOLTS 4A1	ADS 4A.
DRAWN LAB.	STANDARD DOLTS. 4AT.	SHEET. I.
CHECKEB ECM.	ISSUE Nº	APC Dato Nº15

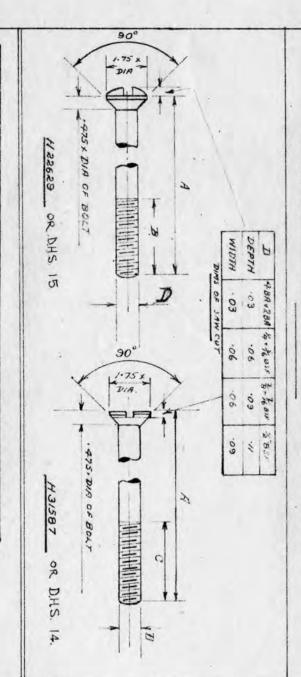
Drawings			No 1.	1550E NO 1.	CHECKED ECN
Jus	STANDARD BOLTS HEZERS & H31587	BOLTS	DTANDARD		BUY NAWNE
175 4		5	س و	71716	DATE 28.8 42

SIZE	- 4	7BA	7		ZBA	7	1	7 B	SF	3	& BS	F		BB.	SF		76 B	SF	12	BSA	-
MK.	'A'	B	'ċ	Ä	B	'c'	Ä	B	c	Ä	B	Ċ	Ä	B	c	Ä	B	'c	Ä	B	ć
B	.4	-28	-28	.4	-26	- 26	.4	.23	.23	4	-20	.20								1	
C	. 6	-48	.48	.6	.46	.46	.6	.43	.43	.6	.40	.40	-6	-37	-37						
D	.8	.50	.50	.8	.50	.50	.8	.55	.55	-8	-60	-60	-8	.57	.57	.8	-54	-54	.8	-52	-52
E	1.0	.50	.50	1.0	.50	-50	10	.55	.55	10	-60	.60	1.0	-65	-65	10	-70	-70	10	-72.	-72
G	1.4	.70	.70	1.4	-70	.70	1.4	-75	-75	1.4	-80	80	1.4	-85	-85	14	-90	.90	14	1.0	1.0
1	1.8	.70	.70	1.8	.70	.70	1.8	.75	-75	18	.80	-80	1.8	·B5	.85	1.8	-90	-90	18	1.0	1.0
K	2.2	.70	-70	2.2	.70	.70	2.2	-75	.75	2.2	.80	-80	2.2	.85	.85	2.2	.90	.90	2.2	1.0	1.0
M	2.6	-70	.70	2.6	.70	-70	2.6	-75	.75	2.6	.80	-80	2.6	.85	.85	2.6	.90	.90	2.6	1.0	1.0
0	3.0	.70	.70	3.0	.70	.70	3.0	.75	-75	3.0	.80	.80	3.0	-85	.85	3.0	-90	-90	3.0	1.0	1.0
P	1.1*	1.0	.90																		
9	3.5		-50	3.5	.80	.80	3.5	.80	-80	3.5	.90	.90	3.5	-95	.95	3.5	1.05	1.05	3.5	1.10	1-10
R							3.75	-80													
5			111	4.0	-80	.80	4.0	-80	-80	40	.90	.90	4.0	-95	.95	4.0	1.05	1.05	4.0	1.10	1-10
U				4.5	.80	-80	45	-80	.80	4.5	.90	-90	4.5	.95	.95	4.5	1.05	1.05	4.5	1.10	1-10
W				5.0	-80	.80	5.0	80	.80	5.0	-90	.90	5.0	-95	-95	5.0	1-05	1.05	5.0	1.10	1.10
×				5.5	1.0	1.0	5.5	1.0	1.0	5.5	1.0	1.0	5.5	1.0	1.0	5.5	1.05	105	5.5	1-10	1.10
Y				6.0	1.0	10	6.0	1.0	1.0	6.0	1.0	1.0	6.0	1.0	1.0	6.0	1.05	1.05	6.0	1.10	1.10
J							2-1	.65													

* 1.4" ON . N31587. CALL UP:-

H 22629C - 28A. H 31587 C - 28A

SHANKS & THREADS, CONFORM TO BRITISH ENGINEERING.
STANDARDS, ASSOCIATION DIMENSIONS & LIMITS FOR BOLTS
MADE TO SPECIFICATION AI BUT TO HAVE CSK HEADS OF
THE PROPORTION GIVEN.



THE

DE

HAVILLAND

PTK LTD.

AUSTRALIA.

SPECIFICATION A16.

TYPE	ORDINA	RY	THIN	/	SLOTTED	CASTLE
SIZE .	RT. HD. THREAD	LT. HD. THREAD	RT. HD. THREAD	LT. HD. THREAD	RT. HD. THREAD	RT. HD. THREAD.
6 BA	AP	APL	AT	ATL		
4 BA	BP	BPL	BT	BTL		
2 BA	CP	CPL	CT	CTL	C5	
32" B.S.F.	DP	OPL	DT	DTL	DS	DC
i" B.S.F.	EP	EPL	ET	ETL	ES	EC.
9" B.S.F.	FP	FPL	FT	FTL	FS	FC
5 B.S.F.	GP	GPL	GT	GTL	GS	GC
3" B.S.F.	JP	JPL	UT	JTL	JS	JC
7" B.S.F.	LP	LPL	17	LTL	LS	LC
B.S.F.	NP-	NPL	NT	NTL	NS	NC

MATERIAL.

- (1). MILD STEEL TO SPEC N S.I.
- (II). STAINLESS STEEL TO SPECY 580.

MARKINGS.

- (1). ALL NUTS OVER & NOMINAL SIZE SHALL

 HAVE THE APPROPRIATE PART NUMBER

 APPLIED TO ONE OF THE HEXAGONAL FACES.
- (2) NUTS MADE FROM STAINLESS STEEL SHALL IN ADDITION BE MARKED WITH THE LETTER "Z" PRECEDING THE PART NUMBER.

ANTI - CORROSION COATING.

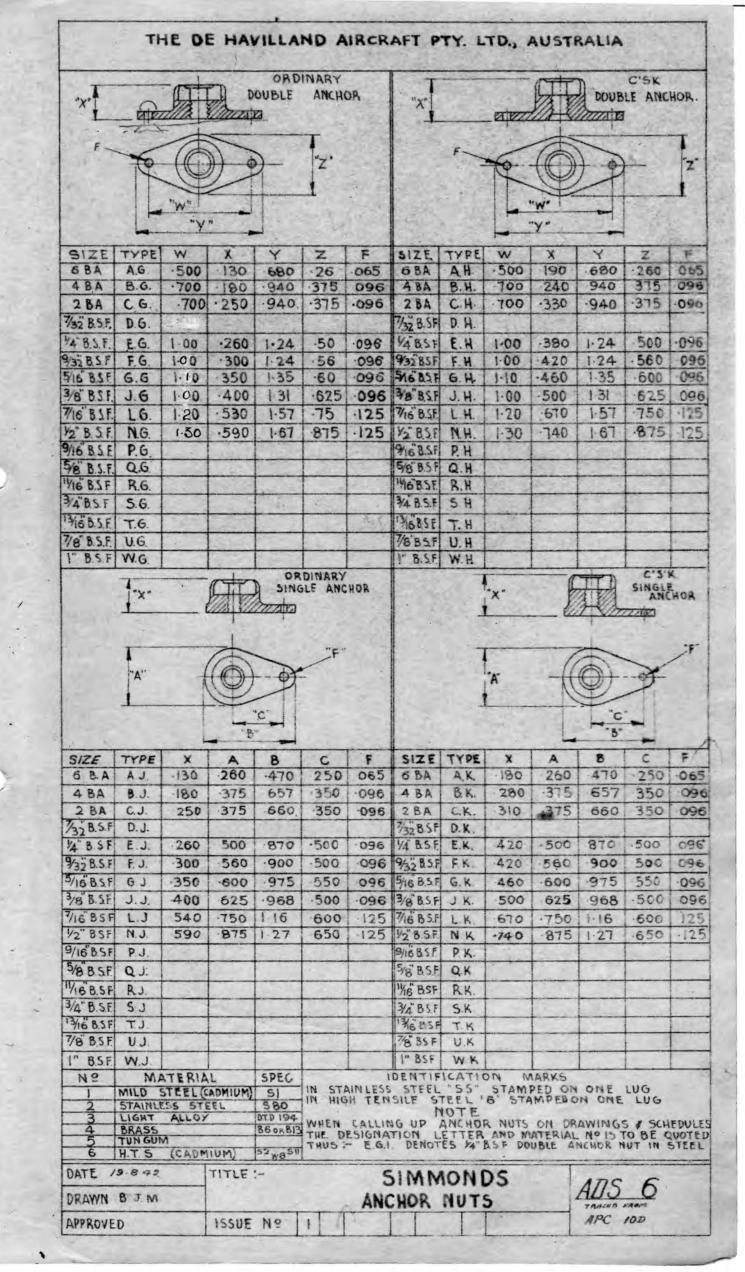
UNLESS OTHERWISE ORDERED, ALL FINISHED

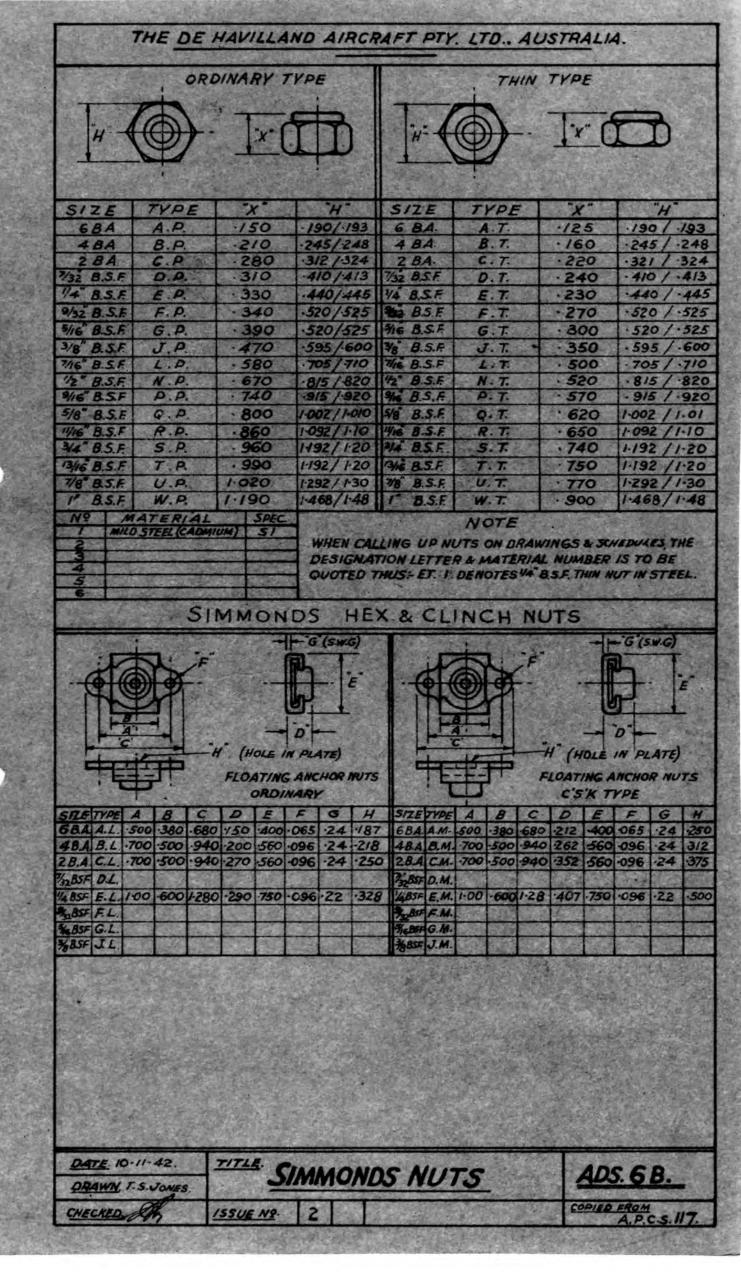
NUTS IN S.I. STEEL SHALL BE UNIFORMLY

COATED WITH ZINC OR CADMIUM BY AN

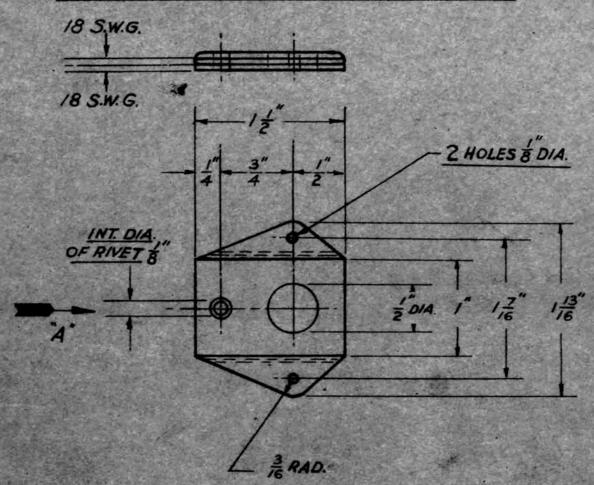
APPROVED PROCESS.

DATE 29 8 42	TITLE ST	TANDAL	RD NUTS	s. A.16.	ADS 5
DRAWN TSJ.		6BA 7	0 2 B.S	.F.	700.0.
CHECKED &	ISSUE No.	1			DATA SHEET NO 16.





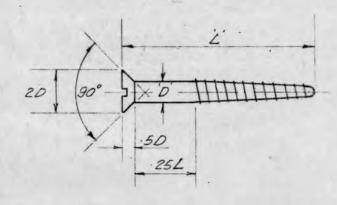
FIXING DIMENSIONS FOR SIMMONDS P&R TYPE COWLING CLIPS.





FROM SIMMONDS DRG: D.S.K. 138.

DATE 10-11-42.		ADS. 6C.
DRAWN TS. JOHES.	SIMMONDS CLIPS.	ADS. 6 C.
CHECKED A.	ISSUE Nº 2	A.P.C.S. 117.



SCREW No.	SCREW DIAM.	DRILL SIZE IN METAL PLATE
1	.072'	. 64 DIA.
2	085"	32 DIA
3.	.098"	64 DIA.
4	.111."	É DIA.
5	.124"	Nº 29 DRILL (1360)
6	137"	Nº 27 DRILL (1440)
7	./50"	32 014
8	.164"	54 DIA
9	./77"	TÉ DIA.
10	.190*	64 DIA.
12	216*	Nº 1 DRILL (2280)

SCREW N°	SCREW	DRILL SIZE IN METAL PLATE
14	-242*	2º DIA
16	-268	32 DIA.
18	-294	TÉ DIA
20	-32/	Q' DRILL (332)
22	347	EL DIA
24	373	ES DIA
26	400	Z' ORILL (.413)
28	426	TE DIA
30	454	\$5° DIA

SEE THE FOLLOWING AGS. NOS FOR LENGTH PART NOS

		THE RESIDENCE OF THE PARTY OF T	AND THE RESIDENCE OF THE PARTY
A.G.S.	250	Bross C'sk	
A.G.5	251	M'Steel C'si	CAD. PLATE
1.55	893	S. Steel C's'k	
465	252	Bross round	head
AG5.	253	M'Steel "	*
A G.5	894	S'Steel .	
-			

DATE 20 .8.42	WOODSCREWS	100 7
DRAWN BPM	WOODSCREWS	ADS 7
APPROVED	ISSUE No. 1	TRACED FROM

uko,

NOTES.

RIVETS TO THIS A.G.S. SHEET ARE MADE OF ANY OF THE MATERIALS LISTED BELOW.

THE RIVETS ARE TO BE CALLED FOR ON SCHEDULES BY THE A.G.S. Number, THE LETTER INDICATING THE MATERIAL AND A NUMBER WHICH WILL SHOW THE DIAMETER, LENGTH AND TYPE OF HEAD AS GIVEN ON SHEETS 1&2. THUS A.G.S. 500-H-49 INDICATES A MILD STEEL SNAP HEAD RIVET 1/8 DIA. × 7/8" LONG.

A LIST IS ALSO GIVEN OF FEATURES BY WHICH THE MATERIAL OF THE RIVET MAY BE INDENTIFIED ON VISUAL EXAMINATION.

THE SULPHURIC ACID ANODISING PROCESS IS NOT TO BE APPLIED TO LIGHT ALLOY RIVETS. [B.C.D&E] THE ANODIC FILM FOR THESE RIVETS MUST BE DYED THE APPROPRIATE COLOUR MENTIONED IN THE TABLE.

SPEC. FOR MILD

THE MATERIAL SHALL BE MILD STEEL, LIMITED TO SULPHUR

.05% [MAXIMUM] & PHOSPHORUS .05% [MAXIMUM]. THE WIRE IN THE

ANNEALED STATE SHALL GIVE 20/32 TONS PER SQUARE INCH TENSILE

& 24/30% ELONGATION ON 8 DIAMETERS. EACH RIVET SHALL BE CAPABLE OF

BEING BENT THROUGH AN ANGLE OF 45° OVER A RADIUS EQUAL TO

THE DIAMETER OF THE RIVET WITHOUT BREAKING.

LETTER	MATERIAL	MIN ULT. TENSILE STRENGTH, TONS PERD	SPECIFICATION [LATEST ISSUE]	PROTECTIVE TREATMENT.	INDENTIFICATION
Α.	ALUMINIUM.	7	B.5.L-36	ANODIC.	PLAIN FILM.
	(ALIMINIUM ALLOY.	17	D.T.D. 327	1	
B.	{			ANODIC.	VIOLET FILM.
	5% MAGNESIUM ALUMINIUM	16	D.T.D. 303	J	
	ALLOV.				
C.	7% MAGNESIUM ALUMINIUM	20	D.T.D. 198	ANODIC.	RED FILM.
	ALLOY.		D.T.D. 182		
. D.	ALUMINIUM ALLOY, [DURALUMIN.]	25	B.S.L. 37	ANODIC.	BLACK FILM.
Ε	7%MAGNESIUM ALUMINIUM.	27	D.T.D. 404	ANODIC.	GREEN FILM.
	ALLOY. HARD DRAWN.				
F.	STEEL. [NON-CORRODING.]	30	D.T.D. 161.	NONE.	MAGNETIC
					QUALITY.
→ H.	MILD STEEL	20	* AS ABOVE	CADMIUM COATED	MAGNETIC
			4		QUALITY.
J.	45% NICKEL ALLOY.	35	D.T.D. 268	CADMIUM COATED	NON MAGNETIC.
			D.T.D. 237		
	HIGH NICKEL COPPER ALLOY.	28	D.T.D. 204		
K.	K			NONE.	NATURAL
	ALUMINIUM NICKEL SILICON BRASS.	28	D.T.D. 367)	COLOUR.
L.	COPPER.	14		HONE.	NATURAL COLOUR

DRAWN T. S.J.

TITLE

RIVETS[SOLID]

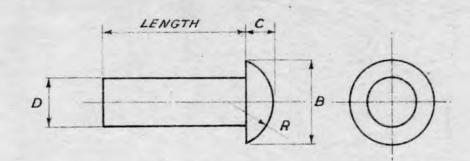
ADS Nº8A

CHECKED

ISSUE NO

A.G.S. Nº 500





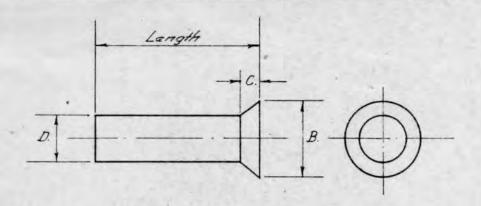
SNAP HEAD RIVETS

DIA. D	16	32	\$	<u>5</u> 32	3/6	32	4	32	5/6	32	3
DEPTH C	.04"	.06	.08"	.09"	-//"	·/3"	.15"	-17"	./9"	.21"	·23 ["]
DIA OF B	-//"	.16"	.22"	.27"	.33"	.38"		·49 ["]	:55	.60"	-66
APPROX: RADIUS R OF HEAD	.06"	.09"	.12"	.15"	-18"	.21"	.24"	.26"	.29"	.32"	·35°
LENGTH	,		P	PART	NU	MBE	RS.				
3"	1	21	41	61							
1" 4	2	22	42	62	82						
5" 76 3" 8	3	23	43	63	83	103	123				
3/8	4	24	4.4	64	84	104	124	144	164		
7"	5	25	45	65	85	105	125	145	165	185	205
	6	26	46	66	86	106	126	146	166	186	206
5"	7	27	47	67	87	107	127	147	167	187	207
5" 34 "	8	28	48	68	88	108	128	148	168	188	208
A	9	29	49	69	89	109	129	149	169	189	209
1"	10	30	50	70	90	110	130	150	170	190	210
14"		31	51	71	91	111	131	151	171	191	211
12"		32	52	72	92	112	132	152	172	192	2/2
13"		33	53		93		133	153	173	193	2/3
17"					94						
2"					95		135			195	215
24"											
22"						**					217
23"											
3"											219
											-

RIVETS A.G.S. 500D (ALL SIZES) SHALL BE QUENCHED FROM A TEMPERATURE OF 4.90° ± 10°C, IN COLD WATER IMMEDIATELY BEFORE USE.

OTHER NOTES ARE GIVEN ON SHEET 3.

DATE: 22.8.42		ADS. 8/8
DRAWN: S.L.	RIVETS (SOLID.)	ADO. O/D
CHECKED: ECN.	ISSUE Nº.	COPIED FROM. 405 Nº 500



C'SUNK HEAD RIVETS

DIA D.	16	32"	8	32"	36	32	4"	32"	5/6	32"	Soles
DEPTH OF HEAD C	025	.037"	050"	062"	075	.087	.10"	-112"	125"	137"	.150
DIA OF HEAD B	10"	.15*	20"	25	30"	35*	40".	45	.50*	55"	60"
LENGTH				P	PART	NUME	BERS				
3"	301	321	341								
4"	302	322	342	362	382						
5"	303	323	343	363	383	403	423				
318	304	324	344	364	384	404	424	444	464		
16	305	325	345	365	385	405	425	445	465	485	505
Ž	306	326	346	366	386	406	426	446	466	486	506
38	307	327	347	367	387	407	427	447	467	487	507
3	308	328	348	368	388	408	428	448	468	488	508
7	309	329	349	369	389	409	429	449	463	489	509
1"	310	330	350	370	390	410	430	450	470	490	510
14				371	391	411	431	451	471	491	511
12"						4/2	432	452	472	492	5/2
13"							433	453	473.	493	5/3
z'										495	5/5
	1										
										E 191	
										-	
							1				

Rivets A.G.S. 5000 (All sizes) shall be guenched from a Temperature of 490°±10°C in cold water immediately before use.

Other notes are given on Sheet 3

For 120° Cak Rivets See D.H.S. 9.

DATE 24 8 42	TITLE BUSTE (COLUMN)	ADS 8C		
DRAWN BPM	RIVETS (SOLID)	ADO OC		
APPROVED	ISSUE Nº I	COPIED FROM		

HKO M

TAPER 1 IN 48 = 10-114 INCLUDED ANGLE LENGTH 1.04"

TAPER PINS.

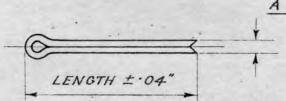
DIAMETER

MILD STEEL. S.21 - A.G. S.167. STAINLESS. S.80 - A.G.S.859

			D.	IAMETER		3711		
LENGTH	16"	3"	8"	32"	3"	4"	5"	
			PART	NUMBE	ERS			
. 2"	1	11	21	31	41	51	6/	
3"	2	12	22	32	42	52	62	
1"	3	13	23	33	43	53	63	
14"	4	14	24	34	44	54	64	
12"	5	15	25	35	45	55	65	
13"	6	16	26	36	46	56	66	
2"	7	17	27	37	47	57	67	
21"	8	18	28	38	48	58	68	
3"	9	19	29	39	4.9	59	69	
4"	10	20	30	40	.50 .	60	7.0	

SPLIT PINS.

"A" DIA. --005"



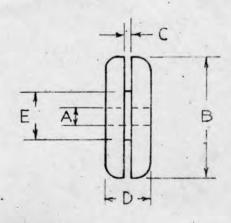
STEEL, COMM 4 A.G.S. 166. STEEL, D.T.D. 268. A.G.S. 784. A.G.S. 166. STAINLESS

			DI	AMETER	"A "	4412			
LENGTH	3" 64	16	5" 64	32"	7" 64	8"	5" 32	3"	4"
1"	18	1		9					
3"	28	2		10		18	26		
/"	38	3 *	34	11	IIA	19	27	35	43
14"		4		12 +		20 ₪	28	36	44
12"		5	5A	13	13 A	21 Ø	29	37	45
2"		6		14		22	30	38	46
2½" 3"				,		23	31	39	47
3"								40	48
DIA. HOLE DRILL.		.07" Nº50.		·/04" Nº 37		136° Nº 29	4		

NOTE :-

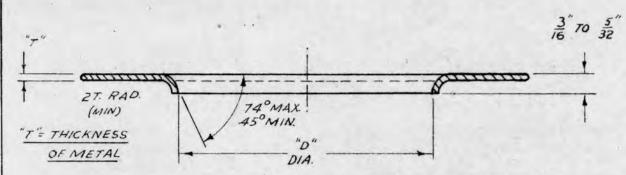
* FOR NUTS 28 A TO \$ 8.S.F. Q FOR NUTS \$ 8.S.F. + FOR NUTS \$ 8.S.F. TO \$ 8.S.F. Q FOR NUTS \$ 8.S.F.

DATE - 20 8 42	TITLE:-	STANDARD TA	ADS 10.
CKECKED:-	ISSUE Nº /		THAGED FHOM. APC - DATA SHE !!



REFERENCE	BORE	OVERALL B"	GAP C	THICKNESS	DRILL SIZE
CBA $\frac{3}{16}$	A 3 16	14	M.M.	7 16 7 16 7 16	
CBA 1/4		14	M.M.	7 16	7 8
CBA $\frac{3}{8}$	3 8	14	MM		7 8 7 8 7 8
CBA 1/2	1.	14	Імм.	· <u>7</u> 16	7 8
СВС	<u>5</u> 16	<u>11</u> 16	3 16	7 16	<u>17</u> 32
CBD	4.	5 8 7 8	3	716	
CBE	3 8		16	<u>5</u> 16	<u>5</u> 8
CBE	716	1 <u>3</u> 16	3 16	3 8	
CBG	11/16	1 8	16	5 6 3 8 9 32 3 16	
СВН	<u>5</u> 16	1 1/8 17 32	16	3 16	
СВІ	5 16	11/16	16	<u>5</u>	15 32
CBJ	3 8 3 16	3 <u> </u> 32	<u>5</u> 32	17 32 3 16	23 32 9 32
СВК		7 16	16	3 16	9 32
CBL	9 32	9 16	32	1/4	32
СВМ	1 7 32	. 17/32	16	- 1 4 . 3 . 16	32
CBN	<u>7</u> 32	9 16	16	5 16	
FORD REF C 166	9 32		32	32	-

DATE 25-10-40	TITLE		And NOTE
DRAWN WHW	CONINIOIIV	BUSHES	AUS IN-11
APPROVED	ISSUE NO III		TRACIOTAGE

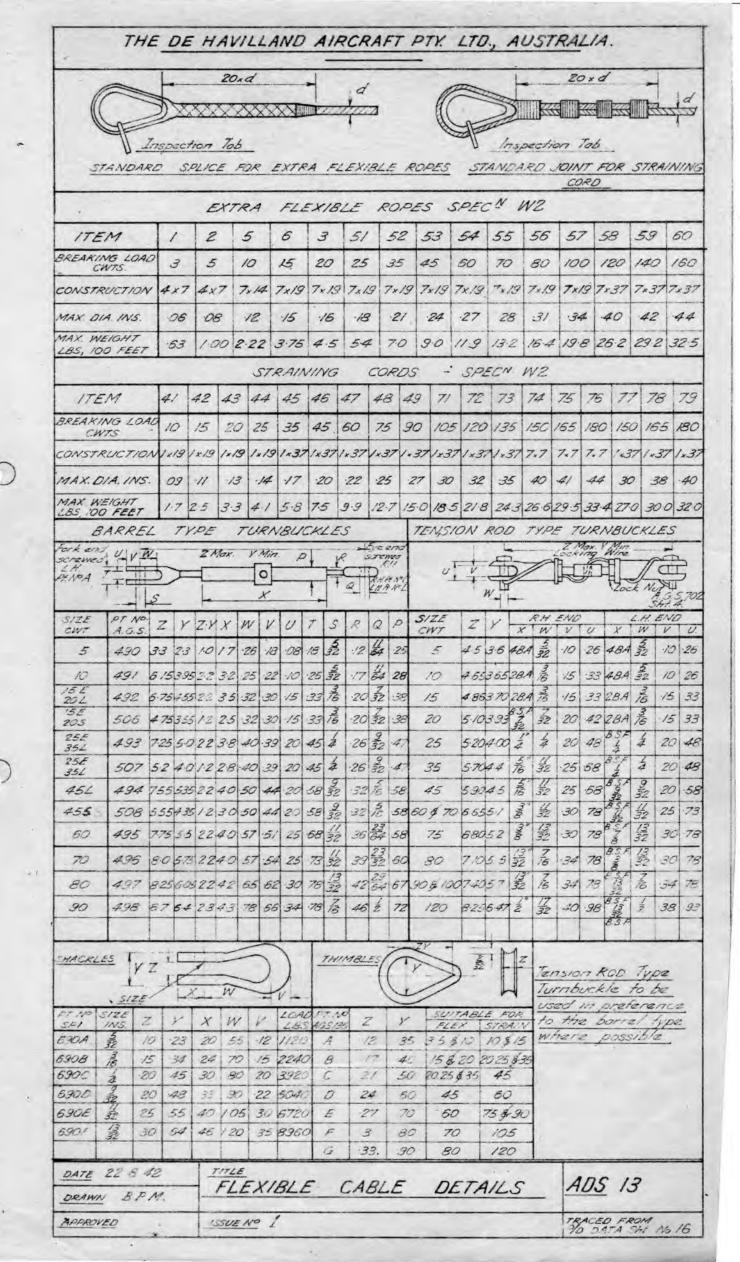


SIZE "D"	DIA OF HOLE	SIZE "D"	BLANK	SIZE "D"	BLANK
10"	9 - 775	23"	2.525"	12"	1.275"
8"	7.775	12" -	11 - 775"	14"	1.025"
6"	5.775	28"	1 . 900"	1"	0.775"
5"	4.775	22"	2.275"	7"	6 . 775"
4"	3.775	24"	2.025"	9"	8 .775"
32"	3.275	2"	1.775"		
3"	2 . 775	13"	1.525"		

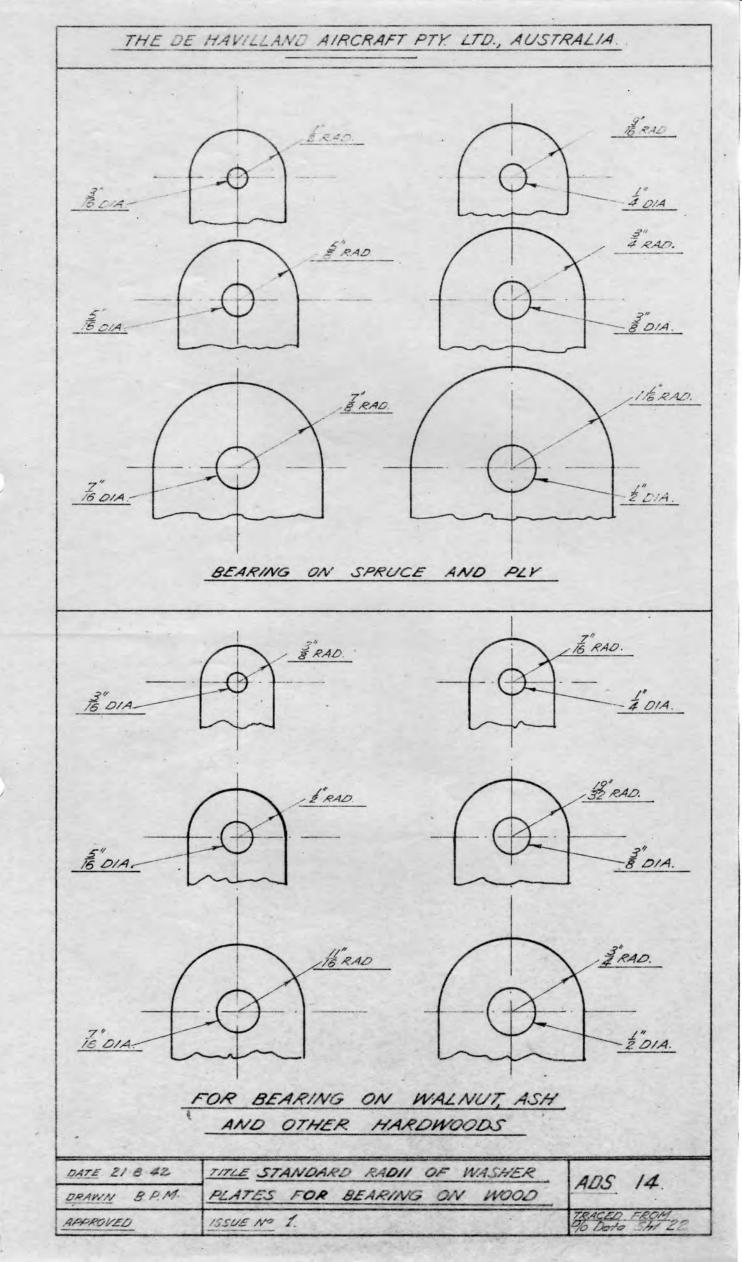


DIE DIA.	"B" DIA.	"A"DIA.	PUNCH DIA.	DEPTH D	DIE DIA.	"B" DIA.	"A" DIA.	PUNCH DIA.	DEPTH'D"
1.5"	0.58"	1.14"	1.3"	0.15"	3.8"	2.36	3.51	3.60	0.22"
1.7"	0.71"	1.27"	1.5"	0.15"	4.5"	2.61"	3 · 78"	3.90"	0.225"
2.0"	0.86"	1.54"	1.7"	0.20"	4.5"	2.86"	4.00"	4.50"	0.23"
2.3"	0.98	1.72"	1.9"	0.18"	5.5"	3.11"	4.45"	4.70"	0.24"
2.2"	1.11"	1.89"	2.0"	0.18"	6.1"	3.63"	4.90"	5.00"	0.25"
2.5"	1.21."	2.11"	2.3"	0.17"	6.6"	4.14"	5.28"	5.80"	0.25"
2.5"	1.34"	2.16"	2.4"	0.17"	7.5"	4.64"	5.81"	6.20"	0.24"
2.7"	1.46"	2.32"	2.5"	0.17"	8.0"	5.14"	6.34"	6.80"	0.26"
2.7"	1.60	2.40"	2.5"	0.20	8.6"	5.66	6.67	7.20"	0.27"
3.0"	1.72"	2.58"	2.8"	0.18"	9.0"	6.15"	7.30"	7.80"	0.26"
3.0"	1.77"	2.67"	2.9"	0.20"	9.6"	6.67"	7.90"	8.30"	0.28"
3.2"	1.85"	2.75"	3.0"	0.18"	10.3"	7.15"	8.21"	8.80	0.29"
3.2"	1.89"	2.83"	3.0"	0.20"	11.1"	7.64"	8.70	9.30"	0.27"
3.5"	2.11"	3.19"	3.3"	0.22"	11.0"	8.13"	9.30"	9.80"	0.26

DATE. 27.8.42.	TITLE.	STANDARD	ADS. No 12.
DRAWN. T.S.J.		FLANGED HOLES	
CHECKED. E.C.M.	ISSUE NO	1	DATA SHEET NO.12.



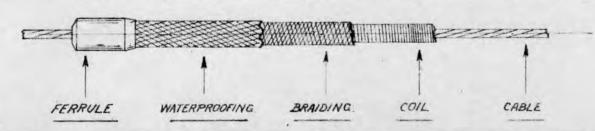
AKON!



CEKOM!

"BOWDENITE" CONDUITS AND CORRESPONDING CABLES

CONDUITS B52, BI&B2 WERE FOMERLY KNOWN AS Nos. 52, 11, \$12 RESPECTIVELY



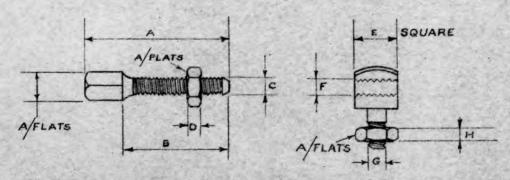
007	TER CONDUIT DIMENSION				5		CABL	E DIMENSIONS				
SIZE	OF FEI	RRULE	NOMINA O/ALL	CONDUIT		INL BORE	TYP	E.	NOM		o of	NOMINAL
	INS	M/M	INS	m/m	INA	M/M	NON FRAY	LIVE	INS	m/m.	Nº SIR	STRAIN-LE
B626	-/25	3.17	.095	2.42	.045	1.14	P7/62.	7/62	.020	-508	7	45
B62	-/7/	4.34	.141	3.58	-045	1.14	P7/62	7/62	.020	-508	7	45
852	-/79	4.54	./56	3.96	-071	1.80	P7/62	7/62	.020	-508	7	45
B52	-/79	4.54	-156	3.96	-071	1-80	P7/51	7/51	-036	.915	7	/80
852	-/79	4.54	-156	3.96	-071	1.80	P19/52A	19/52A	.095	1-14	19	325
BIH	-2/8	5.53	-195	5.07	.093	2.38	19/1	19/1	.062	1.58	19	500
BIH	.218	5.53	./95	5.07	-093	2:38	P19/2	19/2	-075	1.91	19	750
BI	-2/8	5.53	-/88	4.77	-100	2.54	P19/52A	1952A	.095	1.14	19	325
B/	.2/8	5.53	-/88	4.77	-100	2.54	P19/1	19/1	.062	1.58	19	500
B/	-218	5.53	-188	4.77	.100	2.54	P19/2	19/2	.075	1.91	19	750
BRH	-243	6.18	2/2	5.38	-109	2.77	P19/2A	19/2A	.087	2.20	19	1,000
B2	-243	6.18	-2/2	5.38	-125	3-/8	P19/2A	19/24	-087	2.20	19	1,000
B2	-243	6-18	-212	5.38	-/25	3./8	P19/2B	19/28	105	2.61	19	1,400
B2	-243	6.78	-212	5.38	.125	3-/6	P49/31	-	-111	2.86	4.9	1,000
ВЗН	-265	6-75	-237	6.02	-/36	3.45	P49/3L		-111	2.86	49	1,000
E3H	-265	6.75	-237	6.02	-/36	3.45	P36/3		-111	2.86	36	1,400
<i>B</i> 3	-265	6.75	-237	6.02	.154	3.92	P36/4		-126	3.20	36	1,800
<i>B</i> 3	-265	6.75	-237	6.02	.154	3-92	P49/4L		-/26	3.20	49	1,625

"Non-fray" cables do not untwist when cut and require no previous soldering.

Live Lay cables must be soldered before cutting

FOR ALL SIZES ABOVE B3 USE BOWDENEX

DATE 19-8-42	TITLE	ROWNENITE	ADC 15
DRAWN LIB.		DUNDLIVITL	ADS 13
CHECKED ECM.	ISSUE !	1	BOWDEN" AT



PART NO.	CONDUIT	FLATS	A	В	c	D	E	F	G	н	MATL	FINISH
PNII59A	B625	-250	1.062	-750	2BA						BRASS	MICKEL
PNII60		-250			2BA	-125					BRASS	
PNII6I							-250	28A	%6x24		STEEL	
PN551		-338							16x24	-156	STEEL	
PNII59	B62 B52	.250	1.062	.750	2BA						BRASS	
PNII60		-250	WILE ST		28A	-125				30	BRASS	
PNII61				DEUE.	15.50	150	-250	28A	3/6x24		STEEL	"
PN551		.338							3/6x24	-156	STEEL	"
PN484	BI BIH	-312	1-500	1-125	4x26						BRASS	"
PN23		375			4×26	125					BRASS	
PN999							.375	14x26	4x26		STEEL	R
PN 995		-448				10 cm			4x26	-218	STEEL	"
PN476	B2 B2H	.338	1.500	1-125	4×26					Ed K	BRASS	
PN23		-375			1/4×26	125					BRASS	"
PN999							-375	1/4 x 26	1/4x26		STEEL	
PN 995		.448						120	1/4×26	-218	STEEL	"
PN43862	вз взн	-448	1.875	1.437	5/6x22			-37			STEEL	"
PN3223		-525		Trans.	76xee	-218			5/6×22	-218	STEEL	
PN6433		18.18	2.3	6.43			-437	%6 x22	5/6x22		STEEL	"
PN4386	B2 B2H	.448	1-875	1.437	5/6 x22	Par	65 33	1	07.03	E.C.	STEEL	

ALL SCREW THREADS ARE TO B.E.S.A. STANDARDS

DADER BY PART NUMBERS

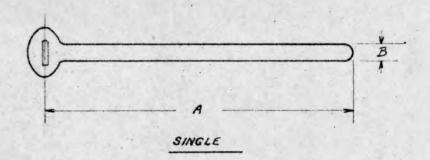
DATE 22-8-42	TITLE	BOWDEN'	
DRAWN J. K.W.	PLAIN	ADJUSTING STOPS & T'BARRELS	ADS 10
CHECKED ECM.	ISSUE		"BONDEN" A3

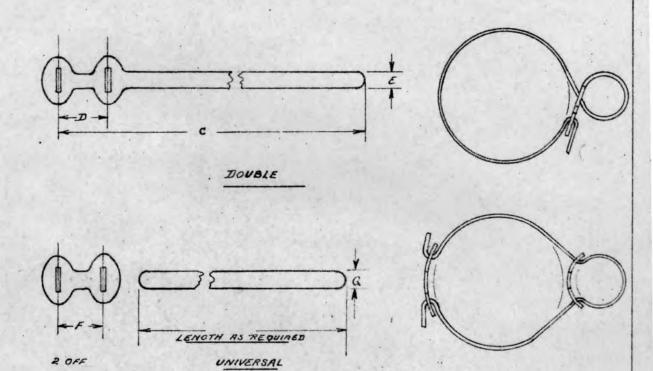
THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA. PLAIN-TYPE 9 SPHERICAL TRUNION- TYPE 12. TUBULAR FOR B C D E F G H MAT'L STOCK FINISH PN/985A .125 BRASS MACHINE 62 -156 PN 5546 62 . 125 - 11

PN 935 51 PN 2104 51 PN 1437 52 A PN 1408 52 A PN 1408 52 A PN 2367 52 A PN 3341 A 52 A PN 1399 13/1 PN 1399 13/1 PN 1588 19/1 PN 1919 19/1 PN 2334 19/1 PN 2334 19/1 PN 2768 19/1 PN 3341 19/1 PN 3341 19/1 PN 3341 19/1 PN 1369 19/1 PN 1368 19/2 PN 148 19/2 PN 2778 19/2	-250 -375 -375 -375	·/56	-/56 -/48	-250 -156 -250 -3/2 -248 -375	·250 ·250 ·250 ·/67 ·281 ·375	-375	-/25 -/25	-171		11 11 11 11 11 11 11 11 11 11 11 11 11
PN 1437 52A PN 1408 52A PN 2367 52A PN 3341 A 52A PN 84 19/1 PN 1399 19/1 PN 1588 19/1 PN 1919 19/1 PN 2334 19/1 PN 2334 19/1 PN 2768 19/1 PN 2768 19/1 PN 3529 19/1 PN 372 19/1 PN 3741 19/1 PN 3741 19/1 PN 1368 19/2 PN 148 19/2	· 375	-250	-756	·156	-250 -250 -/67 -281 -375	-375	-/25		11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11
PN 1408 52A PN 2367 52A PN 3341 A 52A PN 84 19/1 PN 1399 13/1 PN 1588 19/1 PN 1919 13/1 PN 2334 19/1 PN 2334 19/1 PN 2788 19/1 PN 2788 19/1 PN 3341 19/1 PN 3341 19/1 PN 1369 19/1 PN 1368 19/2 PN 148 19/2	· 375	-250	-756	·250 ·3/2 ·248	-250 -/87 -281 -375	-375	2/8		· · · · · · · · · · · · · · · · · · ·	17 17 18 19 17 19 19 19
PN 2367 52A PN 3341 A 52A PN 84 19/1 PN 1399 13/1 PN 1588 19/1 PN 1919 19/1 PN 2334 19/1 PN 2384 19/1 PN 2788 19/1 PN 3529 19/1 PN 3788 19/1 PN 3841 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-3/2	-2/8	-/48	·250 ·3/2 ·248	-250 -/87 -281 -375	-375	2/8		11 11 11 11 11 11	17 17 17 17 11 11
PN 3341 A 52A PN 84 19/1 PN 1399 13/1 PN 1588 19/1 PN 1919 19/1 PN 2334 19/1 PN 2768 19/1 PN 3529 19/1 PN 3341 19/1 PN 3341 19/1 PN 1368 19/2 PN 148 19/2	-3/2	-2/8	-/48	-250 -3/2 -248	·/87 ·28/ ·375	-375	2/8		11 11 11 11 11 11	
PN 84 19/1 PN 1399 13/1 PN 1388 19/1 PN 1319 13/1 PN 2334 19/1 PN 2334 19/1 PN 2788 19/1 PN 3341 19/1 PN 3341 19/1 PN 1368 19/2 PN 148 13/2	-3/2	-2/8	-/48	-3/2	·/87 ·28/ ·375	-	1		11 17 11 11	17 17 17 17 17 17
PN 1399 13/1 PN 1588 19/1 PN 1588 19/1 PN 1919 19/1 PN 2334 19/1 PN 3529 19/1 PN 2788 19/1 PN 3341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-3/2	-2/8	-/48	-3/2	·/87 ·28/ ·375	-	1		11 11 11 11	11 11 11 11 11 11
PN 1588 19/1 PN 19/9 19/1 PN 2334 19/1 PN 3529 19/1 PN 2788 19/1 PN 932 19/1 PN 3341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-375			-3/2	·/87 ·28/ ·375	-	1		'' '' '' '' ''	16 17 11 11 19 17
PN 1919 19/1 PN 2334 19/1 PN 3529 19/1 PN 2788 19/1 PN 932 19/1 PN 9341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-			-3/2	·/87 ·28/ ·375	-	1		'' ''	17 14 16 17
PN 2334 19/1 PN 3529 19/1 PN 2768 19/1 PN 932 19/1 PN 3341 19/1 PN 1969 19/1 PN 1366 19/2 PN 148 19/2	-			-248	-281	-	1		,, ,,	11 11 11
PN 3529 19/1 PN 2788 19/1 PN 932 19/1 PN 3341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-				.375	-	1		11	"
PN 2788 19/1 PN 932 19/1 PN 3341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-			-375		-	1		• •	"
PN 932. 19/1 PN 3341 19/1 PN 1969 19/1 PN 1368 19/2. PN 148 19/2	-	-250				-	1		HE HE TO	"
PN 3341 19/1 PN 1969 19/1 PN 1388 19/2 PN 148 13/2	-	-250				-125	-125		и	
PN 1969 19/1 PN 1388 19/2 PN 148 19/2	-	-250								
PN 1388 19/2. PN 148 19/2	-	-250					1	./87	U	•6
PN 148 19/2	-	-250	1				1334	-250	- 11	
	.012	The second second	-156						"	u
PN 2778 19/2	.3/2	-2/8	1/48			3 23	4	1	• • •	11
				-375	- 375				.,	1 . 11
PN 3558 19/2				.375	-250				.,	11
PN 2422 19/2				-248	-201				- "	u i
PN 533 19/2						-375	.2/8			· · ·
PN 2419 19/2.						.3/2	./87			M
PN 993 19/2								-250	41	4
PN 1997 19/2'A	-375	.250	-156						.,	*1
PN 2779 19/2A				-375	.375					41
PN 2401 19/2A				-296	-281				*1	9
PN 993/1 19/2A.			169			0 / 5.	(A) 3/2	-250	41	ti.
PN 1300 36/3	-625	-3/2	./87						u	4
PN 2780 36/3				-375	-375					ч
PN 2524 36/3						-250	-250		u .	ij
PN 2536 34/3		3,130			3	-312	-/87	74.3	.,	4
PN1436 36/4.	-625	-375	.250				565.55		11	u

ORDER BY PART Nº

DATE 26-8-42	TITLE BOWDEN'	ATIS 17
DRAWN LAB	NIPPLES FOR SOLDERING	ADS 11
CHECKED ECM	155UE Nº 1.	BOWDER - AGTAT.

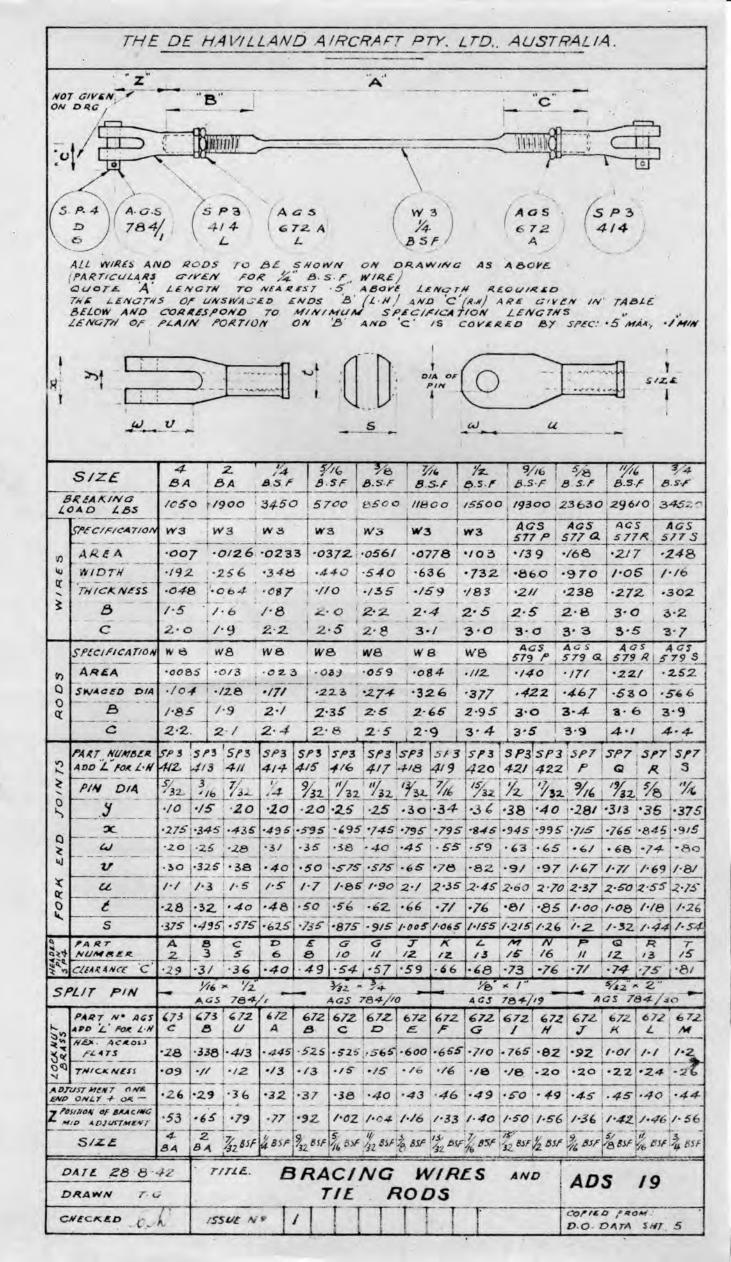




NUMBER	A	8	C	D	E	F	G	MATL	FINISH .
2963	5 32"	154"			100			ALUM	SELF OR ANODISE
2606	5%	150						BRASS	SELF
3360	8%	14						"	"
3326			33	12"	15.			ALUM"	SELF OR ANODISE
448			6%	2"	15 "				
449			6 16	1/2"	15"			BRASS	SELF
640			1			12"	14"		*

SUPPLIED IN SELF FINISH UNLESS OTHERWISE SPECIFIED

DATE 26-8 42	BOWDEN'	ADS 18
DRAWN LAB.	PLIABLE FRAME OR WIRING CLIPS	7100 70
CHECKED ECM.	ISSUE Nº 1.	BOWDEN C3

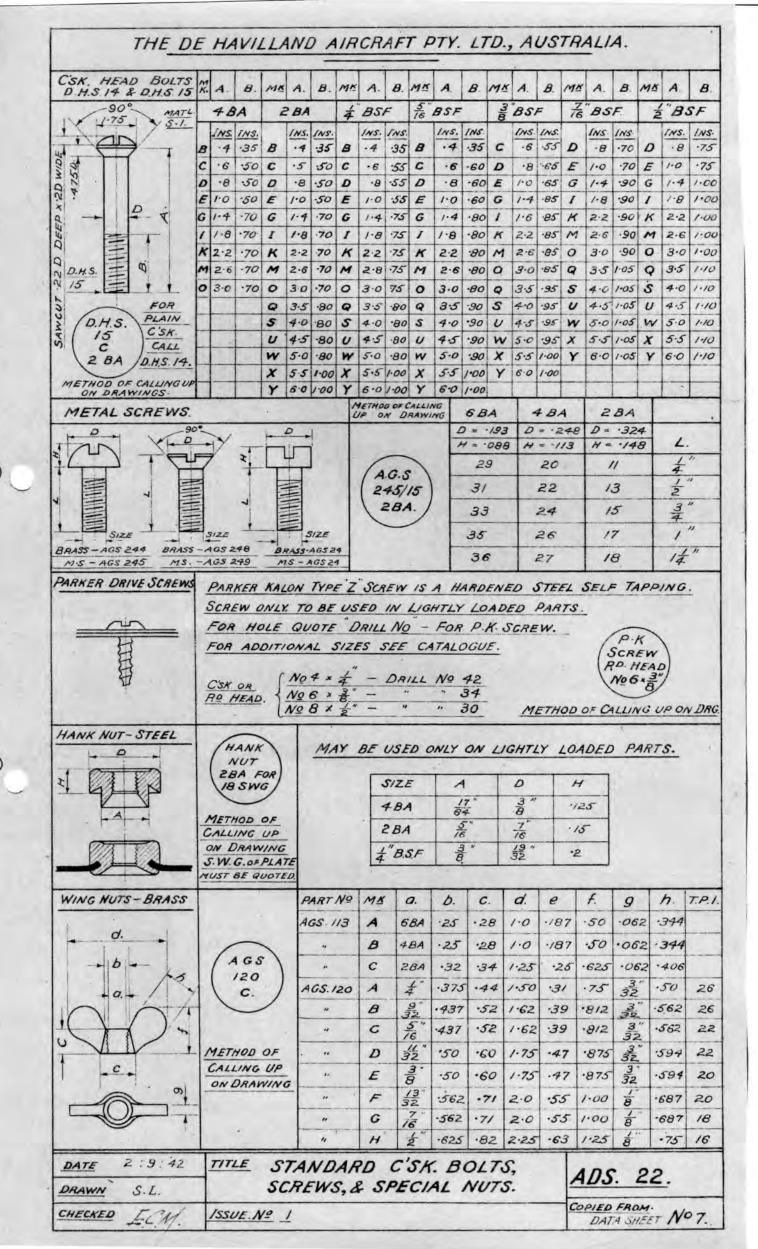


-10	AREA	AREA	For de	ouble si	SINGLE	SHEA	Riolies	given)	Z	ENSIO	v
0/4	ON	BOTTOM	ON FUL	LL DIA	METER	AT BOT	TOM OF	THREAL	AT BOT	TOM OF	THREAL
4BA 2BA 14 56 90 76 12 96 50 116 90 90 116 90 116 90 116 90 116 90 116 90 116 90 116 90 116 9	DIAME	OF THREAD		52 \$ 580 34 Ton/d			52 \$ 580 34 Ton/a*	13.5 Tonfor	51 & 561 35 Ton/D*		
68A	0095	0057	500	700	280	320	440	170	450	700	320
4BA	.0159	0096	900	1200	480	540	740	290	750	1100	530
28A	0269	.0170	1500	2000	800	950	1300	500	1320	2000	950
4"	0491	-03/6	2700	3700	1500	1.800	2400	900	2400	3800	1770
5"	0767	-0503	4300	5800	2300	2800	3800	1500	3900	6200	2800
	1105	0760	6200	8400	3.300	4.300	5800	2300	5900	9300	4200
	1503	1054	8400	11500	4500	5900	8000	3200	8200	13000	5900
2"	1964	1385	11000	15.000	5900	7800	10.500	4200	10.800	17000	7700
	2485	1828	13900	19.000	7500	10.200	14000	5500	14.200	22000	10200
5	3068	2235	17200	23.400	9300	12500	17.000	6700	17400	27500	12500
115	3712	2790	20800	28.300	11200	15600	21000	8400	21.800	34200	15600
3"	4418	-3250	24700	33.700	13300	18200	25000	9800	25.300	40000	18200
13"	5185	39/3	29000	39500	15600	21900	30.000	11900	30.500	48000	22000
7"	-60/3	4520	33700	45000	18200	25.300	34000	13700	35,200	55500	25000
1.	7854	-5975	43900	60.000	23800	33400	45000	18100	46.500	73500	33000
唐	9940	7580	55500	75.500	30000	42500	57000	22900	59.000	93200	42000
18	9940	7580	43900 55500 ARING	75.500		42500	57000 101E - H	22900 Ingunes		93200 right of	heav

		84.7		SWB	OF PLA	ATE =	FULL	DIAME	TER		SUN			
MATERIAL	DIA.	24	22	20	18	17	16	14	12	10	8			
	4BA	280	300	450	610	650	900	900	900	900	900			
	2BA	370	460	590	720	930	1060	1320	1500	1500	1500			
	4"	490	630	810	1080	1260	1440	1800	2340	2700	2700			
BOLTS	16	610	780	1010	1350	1570	1800	2250	2920	3600	3870			
	3"	730	940	1210	1620	1890	2160	2700	3500	4300	5400			
M.S. PLATE	16	860	1100	1410	1900	2200	2520	3/50	4100	5000	6300			
S3 BEARING	2"	980	1260	1620	2160	2520	2880	3600	4700	5700	7200			
STRESS	\$"	1230	1570	2020	2700	3/50	3600	4500	5800	7200	9000			
40 TONS/IN	3"	1470	1890	2430	3240	3.780	4300	5400	7000	8600	10800			
	8	1630	2200	2830	3780	4400	5000	6300	8200	10200	12600			
	. 1"	1980	2500	3260	4300	5000	5700	7200	9300	11500	14400			
	4BA	210	270	350	460	550	630	790	900	900	900			
	28A	250	350	450	610	700	820	1030	1340	1500	1500			
51	4"	380	480	680	830	970	1110	1390	1800	2170	2700			
BOLTS	5"	470	600	770	1030	1220	1390	1730	2250	2740	346			
DURAL L3	3"	570	720	930	1240	1450	1670	2070	2700	3280	4150			
OR 125	70	660	850	1090	1450	1700	1950	2440	3160	3830	4850			
BEARING	2"	750	970	1240	1660	1940	2230	2780	3600	4350	5550			
STRESS	5"	950	1210	1550	2070	2430	2780	3470	4500	5500	6950			
31 TONS/INE	3"	1140	1450	1860	2500	2900	3340	4150	5400	6500	830			
	8	1300	1710	2/80	2900	3300	3900	4860	6300	7650	960			
	1"	1520	1950	2480	3300	3800	4450	5500	7150	8700	11100			
DATE 25 8 DRAWN B.P.		STRENGTH OF BOLTS								ADS 20				
CHECKED 6.	W.	ISSUE /	vo 1						COPIEL	Shit.	16 9			

	B. 5	F.		WHIT	574	NDA	IRD.	BR	ITISI	4 AS.	SOCIA	TION.	WH	ERE	STAN	DARI	HEX-
SIZE	T.PI.	CORE	CORE DIA.	DIA.	T.P.I.	CORE	CORE DIA.	No	7	PITCH	1 5000	CORE DIA	WHIT.	B.A.	CORNERS	_	ATS
7 32		AC. S.A.		1.16	60	MARCH	04/2	0	-	-	.0279	.189		6BA	-223	-	193
14	26	.03/6	2007	3/32	48		-0670	1	2087	0354	.0216	166		4 3 A	-286		-246
9/32	26	-0423	-232	1/8	40	-0068	-0930	2	1850	.0319	0169	147		38A	.325		28
5/16	22	-0508	.2543	5/32	32	-0099	//62	3	1614	-0287	0127	-127		2BA	.374		1.324
11/32	22	.0638	.2851	3,16	24	0141	.1362	4	1417	-0260	0097	-111		1BA	421		36
3/8	20	.076	-3/10	7,32	24	0215	.1653	5	1260	0232	-0075	.098		07/32	.478		4/3
13/32	20	.092	.338	1/4	20	.0272	.186	6	1/02	-0209	-0057	.085		14	.515		-44
7/16	18	1054	3664	5/16	18	0456	2414	7	0984	·0189	.0045	.076	1/4	932/16	610		.52
15/32	18	124	397	3/8	16	-068	2950	8	-0866	0169	0034	066		3/8	-690	li.	60
1/2	16	1385	-42	7/16	14	094	.346	9	.0748	0154	.0025	.056	3/8	7/16	-850	1	.710
9/16	16	1828	.4825	1/2	12	-121	.3933	10	0669	-0138	.0019	-050	- 44 -	1/2	.950	18	.820
5/8	14	-2235	-5335	9/16	12	1632	4558						1/2	9/16	1.06	1	-920
1/16	14	.279	-5960	5/8	11	.204	5086						5/8	5/8	1-17	2	1.01
3/4	/2	.325	-6433	11/16	11	.304	-57//	_						1/16	1.27	Z	1.100
13/16	12	.39/3	.7058	3/4	10	304	.6219				S.P			343/6	1.39	3	1.20
7/8	11	4520	-7586	13/16	10		6844	SIZE	DIA.	T.P./.	AREA	DIA.	3/4	7/8	1.51	2	1.30
5/16	11	.5295	.821	7/8	9	422	7327	1/8	-383	28	-0892	.337		15/16	1.61	3	1.39
1	10	597/	87/9	15/16	9		.7952	1/4	.518	19	1597	.45/	7/8	1	1.71	5	1.48
1,16	10		.9344	1	8	555	and the second second	3/8	-656	19	-2722	- 589	1	1//8	1.95	RIE	1.670
118	9	-7585	9827	1/16	.8		.9024	1/2	.825	14	4231	.734	118	11/4	2.15	10	1.86
13/16	9		1.045	11/8	7	-6369	9420	58	.902	14	-5162	.811	11/4	13/8	2.38	7	2.05
1/4	9	-9637	1.108	13/16	7		1.0045	-	1.041	14	.7083	.950	13/8	1/2	2.57	41	2.22
15/16	9		1.1702	1/4	7	8942	1.0670	7/8	1.189	14	.9464	1.098	11/2	15/8	2.80	0	2.41
13/8	8	1.1593	1.215	15/16	7		1.1295	1	1.309	11	1.117	1.193	15/8	13/4	2.98	3	2.58
17/16	8		1.2774	13/8	6	1-0597	ACCOMPANIES OF	11/4	-	11	1.848	1.534	13/4	2	3.185	4	276
1/2	8	1-4100	/3399	17/16	6		1.2241	-	1.885	11	2.4775		2		3.64	w	3.15
19/16	8		1.4024	11/2	6	1-3001	1.2866	13/4	2.//6	11		2.000			3.86	7	3.34
15/8	8	1.6854	1.4649	19/16	6		1.3491	2	2.347	11		2.231	2/4		4.1	0	3.55
11/16	8		1.5274	15/8	5	14718	13689		The state of the state of	11	4.79	2.47/	23/8		4.34		3.75
13/4	7	1.9285		1"/16	5			-	2.960	11	and the same of	2.844	Contract Contract		4.5		3.89
113/16			1.6295	13/4	5		14939					3.094			5.22		4:53
178			1.6920				1.5564	-	-			3.344				-	
115/16			1.7545									3.584					-
2			1.8170				1.6529					3.834					-
2/8	-		1.9420				1.7154					4.084					_
21/4	-	-	2.0366	-	the same of the sa		1.8404	-	-	-		4 334					_
23/8			2-1616			2.9249	1.9298			_		4.834					
2/2	6		22866		4		2.0548					5.334					_
258	6		2-4116			3.7318	2.1798		5.950	//		5-834					_
23/4			2.5366		4		2.3048		6.450	11	31.47	6.334					
27/8	6		2.6616								-						-
3			27439				2.509/			بيا			_				
31/8	5	-	28689				2.634										
31/4			2.9939 3.1189		3//2		2.759										
33/8		-	3.7189		3/4	0.400	2.98/0										
31/2		-	3.3404			7.5760			100								
33/4			3.4654		3/4	-	3.2310	1									
		-	3.5904		3	+	3.3231	-									
378				A STATE OF THE PARTY OF THE PAR	-	0.0752	3.4481	4			×						
4/4	4/2	-	3.7/54		3	100272	3.5731										
	4		4.18	4/4			38046	4									
4/2		-	-	Committee that the country	Section 1985	-	_	4									
43/4			4:43				4.1546	4									
	4		4.68	43/4	23/	16 187	42843										
51/4	_	-	4.88	5			4,5343	-4									
5/2					25/8		4.762/										
	31/2						5.0121	-									-
6	31/2	-	5.634	-			52377										
				6	215	K3-652	5.4877	1									

DATE 28-8-42.	TITLE.	STAN	ADS. 21.		
DRAWN T.S.J.	50	REW			
CHECKED & W.	ISSUE No.	12		DATA SHEET No. 8	



EXPLANATORY NOTES IN CONNECTION WITH USE OF STRESSES QUOTED IN DATA SHEETS

(1) TENSION

Tensile stresses on sheets 1B - 1F can be used directly without any qualifications. Two values are given, one for civil and one for service aircraft in order that the proof factor is automatically complied with

(2) COMPRESSION

The .1% proof stress is to be used as the allowable compressive stress when a member is subjected to a compressive load and when struteffect is absent. Strut curves given in the data sheets should be used in design of struts, using the .2% proof stress as the basic compressive stress.

(3) BENDING

(a) Pure Bending

In pure bending the allowable stress is to be taken as half way between .1% proof and the tensile stress.

(b) Bending Combined with tensile end load

When stresses arise from bending accompanied by tensile end load, the permissable stresses to be used are as follows:-

When resultant stress is tensile, the tensile stress given

is to be used.

When the resultant stress is compressive, the intermediate stress quoted in 3a above is to be used.

(c) Bending combined with compressive end load

The allowable stress in a member when bending is accompanied with compressive end load neglecting strut effect may be determined approximately as follows:-

$$f = \frac{fb}{fb + fc} \left(\frac{ft - fp}{2} \right) + fp$$

where

f = Allowable Stress.

fb = Stress due to bending.

fc = Stress due to compressive end load.

ft = Allowable tensile stress) As given in

fp = .1% proof) data sheets.

(4) SHEAR

The allowable shear stresses given in the data sheets apply only to solid sections in direct shear and to solid sections subjected to torsion.

Tubes in Torsion

The allowable sheer stress in a tube when subjected to torsion depends upon its diameter/thickness, and date sheets No. 33a and 33b must be used to determine the permissible shear stress.

(5) BEARING

The bearing values given in the data sheets can only be realised under ideal conditions i.e., when no vibration is present and when load is unidirectional.

On members subjected to shock load, or to vibratory forces, or to reversal of load such as occur on Undercarriages, Tail Wheels, Engine Mountings, and parts of Control Systems, ONE HALF of the bearing stresses quoted should be taken as the permissible bearing stress.

(6) STABILITY OF BUILT UP PLATE MEMBERS

Structural members (such as ribs, fuselage frames etc.,) are often made up of flanged plate and the permissible stress developed in bending and direct compression depends entirely upon the stability of the flanges, i.e.,

DATE 25-8-42 DRAWN LAB. CHECKED ECM TITLE

ISSUE Nº 1

STRESSES

ADS. 23A

Do Dala Sheet 14

EXPLANATORY NOTES IN CONNECTION WITH USE OF STRESSES QUOTED IN DATA SHEETS.

(2)

its ability to resistlocal buckling. As a general rule, a section would be stable and unlikely to secondary failure if the width of flange divided by the thickness of material equals 5 and in this case the .1% proof can be used as the allowable bending or compressive stress. Where the flange width/thickness exceeds 5, the allowable stress will be reduced. No difinite law can be laid down at the moment giving relationship between allowable stress and flange width and the Stress Office should be consulted in this matter.

The De Havilland Aircraft Co. Ltd., Hatfield, Herts.

DATA SHEET. NO. 1A.

DATE 25-8-43	TITLE CONTRACTOR	ADS 23.B.
DRAWN LAB	STRESSES	ADS 23.B.
CHECKED ECM	ISSUENº 1	DO DATA Sheet . IA

10	1	GR		Na Utraliji	化水油等的水位为后在水油等的形成长少 为产品的时间是		MAX PE	RMISSIE	LE STRI	SSES-TO		E	N
DRAWN	DATE	0.20	SPEC.N	MATERIAL.	REMARKS.		TENS		1%	Surro			
ED	P	1919	3		SERVICE AIRCRAFT	CIVIL AIRCRAFT	PROOF.	SHEER.	DEARING	LBSIN.	LB3/IN		
	Non	5.3.	M.S.	LOW TENSILE WELDING STEEL FOR GENERAL USE.	AS RECEIVED.	22	26.4	16.5	18.5	45	29.5	11.5	
	- 1/10	5.	741.0.		AT WELD AFTER HEAT TREATMENT.	20	20	16	14	40	29.5	11.5	
	42 nne.	STAIN	DTD.	MANGANESE	ALL DRAWING SHOULD STATE: DTD. 124 A. ANNEALED ANNEALED CONDIT NORMALISING AFTER WELDING OR BENDING IS NOT REQUIRED. (AS PURCHASED & RECEIVED FOR VERY SPECIAL DESIGN REASONS A FINISHED PART IS			30	25	21.	45	28	11.5
37		LESS .	1244.	STEEL.	REQUIRED TO BE BROUGHT TO THE "HARDENED & TEMPERED" CONDITION, THE FOLLOWING NOTE MUST BE ADDED TO DRG:- "HARDENED & TEMPERED TO THE REQUIREMENTS OF SECTION III. OF SPEC DTD. 124 A." (DONOT ELECTRICALLY) SPOT WELD	HARDENED & TEMPERED (FOR SPECIAL JOBS ONLY) BEFORE WELD.	42	42	40	29.5	67	28	11.5
1	JOE S	571	5.88.	H.T.S.	FOR HIGHLY STRESSED PARTS-UNSUITABLE FOR WELDING	- PREVIOUSLY DTD. 54A.	86.5	86.5	65	50	100	29	11.5
T	S.	13	5.84	LOW CARBON STEEL	SUITABLE FOR EXHAUST BOXES, PIPES & BRACKET	S-WELDABLE.						29	11.5
-	1155	S.	DHA. 28.	M.S.	ALTERNATIVE TO S3. TO BE USED FOR LIGHTLY STRESSED PIPE CLIPS, BRACKETS FOR ENGINE INSTALLATION	ALTERNATIVE TO S.3. TO BE USED FOR LIGHTLY STRESSED DETAILS SUCH AS PIPE CLIPS, BRACKETS FOR ENGINE INSTALLATION DETAILS ETS				12	25	29	11.5
14	AN	STAINL	DTD.	M.S.	USE GENERALLY FOR LOW STRESSED WELDED PARTS IF STAINLESS PROPERTIES. NO HEAT TREATMENT REQUIR	RED AFTER WELDING.	20	24	15	17	36	30	12
0	m	TWI	DTD. 166A.	H.T.5.	GOOD STAINLESS PROPERTIES CAN BE WELDED WITHOUT TREATMENT BUT REDUCES TO DTD. 171 AT WELD (USE UP STO	CK OF DTD. 60-UNWELDABLE).	52	52	40	36	75	25.4	10.
1.	5	STE	5.85.	M.S.	MEDIUM STAINLESS PROPERTIES - PREVIOUSLY DTD. 23.B C. HEAT TREATMENT NECESSARY AFTER WELDING-NOT TO BE USED IN CO	AN BE WELDED TO S. 6/-	21.3	25.6	16	18	45	30	12
SIK	. 1		DTD. 46A.	H.T.S.	STAINLESS ALTERNATIVE TO S.88-MEDIUM STAINLESS PROWELDING - NOT TO BE USED IN CONTACT WITH DTD.166,	PERTIES - UNSUITABLE FOR	86.5	86:5	65	50	100	29	11.5
4.3	SSE	S. ALL	L.3.	DURALUMIN.	AFTER NORMALISING AND AGE HARDENING.		20	24	15	14.5	32	10.5	3.9
	30	VIM	DTD. 270.	DURAL (G)	AS RECEIVED.	UNITED BY	23.3	28	17.5	16.5	36	10.5	3.9
	-1	HOW	L.16.	ALUMINIUM.	HALF HARD (FOR HARD SEE SPEC L.4.)	A THE RESIDENCE	7	7	6.5	4.5	11	9.6	3.6
	_	ALL	DTD. 2/3	MANGANESE ALUMINIUM.	FOR FAIRINGS ETCWELDABLE.	AND AND ADDRESS	11	11	8	7.5	14	9.6	3.6
1	6	SAOT	DTD. 390.	ALCLAD.	NO ANODIC TREATMENT NECESSARY.		20	24	15	14.5	32	10	3.9
	405.	MIS	DTD.	MAGNESIUM ALLOY.	"ELEKTRON "SUITABLE FOR WELDING.		9.3	11	7	7	.16-5	6	2.2
	N	CELL	DTD. 120A.	MAGNESIUM ALLOY.	"ELEKTRON "UNSUITABLE FOR WELDING.	The state of	9.3	11	7	7	16.5	6	2.2
1	4	ANE	B.S. 265.	BRASS.	HALF HARD FOR GENERAL USE (SUPERSEDES B.16.) COLD ROLLED SHEET AND STRIP		14.6	17.5	11	12	26		
	15	NEOUS	B.S. 899.	COPPER.	HALF HARD. (SUPERSEDES B.I.S.)		10	12	7.5	8	18		

111	G	CLI			MAX.	PERMISSI	BLE STR	ESSES-TO	NS/IN2	E.	N.
RAWN	11	SPEC.	MATERIAL.	REMARKS.	SERVI	NSION.	·1% PROOF	SHEER.	BEARING	×10-6 185/18	×10-0
VI.	NON	5.1.	M. S.	ABOVE 31/2"DIA. USE S.G. FORGED BAR. UNSUITABLE FOR WELDING	35	35	27	25	53	28.5	11.5
5 4	574	5.2.	H.T.S.	ABOVE 21/2" DIA. USE S.II. FORGED BAR UNSUITABLE FOR WELDING.	55	55	45.5	34	80	28.5	11.5
	TE 1.8.42. TITLE PERMISSIBLE B	5.14.	M.S.	CARBON CASE HARDENING STEEL.	32	32	24	23	52	29	11.5
154	ESS S	5.2/.	M.S.	FOR GENERAL USE ON LOW STRESSED WELDED PARTS. AS RECEIVED FOR FORGING EQUIVALENT SEE B.S. 5005/201. AT WELD.	23	25	17.5	18	35	30	11.5
13	TEE	DTD. 126A.	M.S.	MEDIUM TENSILE STEEL SUITABLE FOR WELDING.	40	40	31	28	60	28	11.5
LE PERM STRES	5.67.	CASE HARDENING STEEL	SUITABLE FOR PARTS SUBJECT TO EXCESSIVE WEAR-THRUST WASHERS I	TC. 40	40	30	28	60	28	11.5	
	STA	DTD. 176A.	M.5.	USE GENERALLY FOR LOW STRESSED WELDED PARTS IF REQUIRING GOOD STAIN. PROPERTIES. NO HEAT TREATMENT REQUIRED AFTER WELDING NON-MAGNETI		24	15	17	36	28	11.5
BB	INLE	5.6%	M.S.	STAINLESS ALTERNATE TO S.IA.I. BOLTS ETS CAN BE WELDED TO 5.85. HEAT TREATM NECESSARY AFTER WELDING, NOT TO BE USED IN CONTACT WITH DTD. 166. 171.08 176.	MENT 37	32	20	23	52	29	11-5
MISS!	55 57	5.80.	H.T.S.	MEDIUM STAINLESS PROPERTIES, NOT SUITABLE FOR WELDING FOR MATING PARTS USE S.2. WHERE POSSIBLE MAGNETIC.		55	45	34	80	28	11.5
	EET?	5.81.	NICKEL CHROME	FOR H.T. PINS, CRANKSHAFTS, NOT FOR GENERAL USE MAY BE USED	65		55	40	80	28	11.5
	-		STEEL. DURALUMIN.	UNDER SPECIAL CIRCUMSTANCES FOR VERY HIGHLY STRESSED PARTS. UP TO 3"DIA. ALSO EXTRUDED SECTIONS EXTRUSIONS BELOW \$/8" THICKN			14	13.5	30	10.5	3.9
IL		L.1.		(SEE DTD. 423 A. BELOW.) " ABOVE 3/8"THICKN	ESS 20		15	14.5	32	10.5	3.9
	A	L.39.	DURALUMIN.	BETWEEN 3"DIA. & 6"DIA.	16	19	12	11.5	30	10.5	3.9
-	12	L.40.	ALLOV.	FORMERLY "HIDUMINIUM" (SEE DTD. 423 A. BELOW.) BAR & EXTRUDED SECTIONS BELOW 3/8" THI		26	20	16	36	10.5	3.9
Q	2	OTO		BARS FOR MACHINING NOT EXCEEDING 3"DIA, FORGINGS, AND EXTRUSIONS ABOVE 3/8" THICKNESS	30	30	26				-
Y	13	364A	ALLOV.	" BELOW 3/g" "	28	28	24	17	38	10.5	3.9
7	15	30+A.		UP TO 1"DIA.				14	20	100	-
D	2	DTD.	ALUMINIUM	M. G.7" RESISTS CORROSION. BETWEEN 1"& 3" DIA.	16	19	15	14	27	10.2	
	444	194.	ALLOY.	OVER 3" DIA.	13.3	-	10	10	24	10.2	
403	OVS.	DTD 423A.	ALUMINIUM ALLOY.	USE WHEREVER POSSIBLE AS BAR, EXTRUDED SECTIONS OR FORGING IN PLACE OF L.I. AND L.40. NOTE - BARS OR FORGINGS MUST NOT EXCEED 3" DIA. ON MINOR SECTIONAL DIMENSIONS.		22	17	13	29	10:5	3.9
2		L.34.	ALUMINIUM.	FOR WELDING PURPOSES.	5	5					
5	Misc	8.5. 249	BRASS.	FOR GENERAL USE (SUPERSEDES B.13.)	14.6	17.5	//	10	26	14	5.6
1	ELLAN	B.11.	BRASS.	TO BE USED ONLY WHEN SOLDERING AND BRAZING IS REQUIRED.	14.6	17.5	11	/3	26	14	5.6
	EOUS	DTD.	PHOSPHOR BRONZE.	POOR DELIVERY - USE B.S. 249 WHERE POSSIBLE.	20	24	15	17	28	17	6.8

ININ	G					MAX.P	ERMISSI	BLE .	STRE.	SSES-To	NS/IN.2	E:	N.	
DRAW	2002	SPEC.	MATERIAL.	REMARKS.		TEN. SERVICE AIRCRAFT	SION.	PR(0,	SHEAR	BEARING.	×10-6	×10-	
NON-STAINLESS STEELS STAINLESS STEELS ALUMINIUM AL E 3.8.42. TITLE PERMISSIBLE TUBES. STRESSES:- TUBES.	7.7.	M.5.	USE UP STOCK (T.35 & T.45 FOR FUTURE US	E.)	35	35		30	25	54	28	11.5		
413	NON	T35.	MANGANESE	OVAL TUBES AND ROUND TUBES BELOW 1/2" DIA.	AS RECEIVED.	35	35	30	30	25	54	A 28 A 27-A T 28-8 T 28-8 T 28-8 T 28-8 T 29	11.5	
1:0	57	/ 33.	STEEL.		AT WELD.	30	30	-	25	2/	45		11.5	
151	1 3	7.45	MANGANESE.	ROUND TUBES 1/2"DIA. AND OVER.	AS RECEIVED.	45	45	40	40	30	67	28.8	11.5	
7/72		1.43.	STEEL.		AT WELD.	30	30	-	25	2/	45	28.8	11.5	
	110	7.50	MANGANESE STEEL	CIRCULAR AND NON-CIRCULAR TUBES NOT SUIT	TABLE FOR WELDING.	50	50.	445	45	35	75	28.5	11.5	
IN		7.2.	CHROME NICKEL STEEL.	"AXLE TUBE" HARDENED & TEMPERED.		85	85	68	78	50	100	29	11.5	
RE	133	7.26.	M. S.	FOR EXHAUST PIPES AND LOW STRESSED P	ARTS, WELDABLE.	15	18	11		11	30	30	11.5	
SCO	5	DTD. 347.	MANGANESE MOLYBDENUM STEEL	SUITABLE FOR WELDING.	BEFORE WELDING.	50	50		45	33	75	29	11.5	
ES		DTD. 347	MANGANESE MOLYBDENUM STEEL	SUITABLE FOR WELDING.	AFTER WELDING.	45	45		40	30	67	29	11:	
TE	S:-	S DTD M.S.			GOOD WELDING AND STAINLESS PROPERTIES. NO SUBSE	QUENT HEAT TREATMENT	18.6	22.4	14	16	18	35	27	10:
1	WLESS S	DTD. 211.	M. S.	GOOD STAINLESS PROPERTIES WHEN WELDED REDU NO HEAT TREATMENT NECESSARY. SLIGHTLY	CES TO DTD. 207.	50	50	37	45	35	75	25.5	10:	
UB	TEELS.													
M	AL	T.4	DURALUMIN		AS RECEIVED	24	26	18	19	15.5	34	10.5	3.5	
S	IM	1.4	DONALOWIN		HEAT TREATED.	20	24	15	17	15	33	10.5	3.5	
	NICI	T.9.	ALUMINIUM.			8	8	7		5	/3	9.6	3.6	
	- AL	DTD. 220.	ALLOV.	PREVIOUSLY "HIDUMINIUM."		27	27	22		16	39	10	3.9	
403	TOKS.	DTD. 310.	ALLOY.	FOR FUEL, OIL AND HYDRAULIC LINES.		10	10							
100	Misc	T. 7.	COPPER	ANNEALED.		14	14	10.5		10	23 .	18	6.9	
PERMISSIBLE TUBES. ADSMO. 2	B 5 8 8 5.	BRASS.	HARD DRAWN SEAMLESS-FOR GENERAL PURP	OSES (SUPERSEDES T.8.)	23.4	-	17.6		15	34		6		
S	NEO	B\$886.	BRASS.	ANNEALED " - " "	# (")	16.8	18	12.5		10	24.5	15	6	

THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA.

211	110					MAX. F	ERMISS	IBLE ST.	RESSES	TONS/IN.	E.	N.
HECKED.	DATE 4.9.32 TITLE FORGI	ATE	SPECN	MATERIAL.	REMARKS.	TENS		1%	CHEAD	READING	×10-6	×10-6
E 113	7 .					SERVICE AIRCRAFT	AIRCRAFT.	PROOF	SHEAK	BEARING.	LBS/IN	LBS/IN
100	٧ ,		5.6.	M. 5.	ALTERNATIVE TO S.I. (CANNOT BE WELDED.)	27	32	20	22:	50	28.5	11.5
7 5	1 6	الن	5.11.	H.T.S.	ALTERNATIVE TO S.2. HEAT TREAT AFTER ROUGH MACHINING.	55	55	43	34	80	28	11.5
3 ;	1 1	٦	5.61.	M.S. STAINLESS.	SEE BAR.	27	32	20	23	52	29	11.5
1			5.80.	H.T.S. STAINLESS.	SEE BAR.	55	55	45	34	80	28	11.5
-	_	-	L.1.	DURALUMIN.	SEE BAR.	20	24	15	16	32	10.5	3.9
155	PERMOS	4	L.40	ALUMINIUM ALLOY.	SEE BAR.	27	27	2/	16	36	10.5	3.9
ISSUE	5 1	21		ALUMINIUM ALLOY.	SEE BAR.	30	30	26	18	40	30	3.9
	ORGINGS	B.S. 5005/201.	M.S.	FORGING EQUIVALENT OF S.21. BAR. (CAN BE WELDED.)	23	25	17.5	18	35		11.5	
		00		ALUM-COPPER ALLOY (HEAT TREATED TWICE)	CLASSI SAND OR DIE CASTINGS FOR MORE IMPORTANT STRESSED PARTS ONLY. GOOD MACHINING PROPERTIES AND SUITABLE FOR THREADED PARTS. TO BE RADIOLOGICALLY EXAMINED. ALSO ANDDICALLY TREATED.	18	18	14	12:5	2.5	8	3.2
- I C. S	CASTINGS, RI	200	DTD. 300	ALLOY. (HEAT TREATED)	CLASS I SAND OR DIE CASTINGS FOR STRESSED PARTS, MORE RESISTANT TO SHOCK LOADS THAN DTD. 304. OR DTD. 298. GOOD CORROSION PROPERTIES. TO BE RADIOLOGICALLY EXAMINED. DO NOT ANODISE.	146	16	11	10.5	22		-
-		IBLE S	DTD.298	ALUM-COPPERALLOY. (HEAT TREATED.)	CLASS I SAND OR DIE CASTINGS FOR MOST GENERAL USE TO BE RADIOLOGICALLY EXAMINED, ALSO ANODICALLY TREATED.	14	14	11	9.5	20		
0			L.5.	ALUM-ZINC-COPPER ALLOY. (NON-HEAT TREATED)	FOR NON-STRESSED PARTS SUCH AS PETROL PIPE ELBOWS, TANK FITTINGS ETC. BETTER THAN 1.33. FOR THREADED PARTS. NO RADIOLOGICAL EXAMINATION. DO NOT ANODISE.	4.7	5.6	3.5	4	8		
1 4			L.33.	ALUM-SILICON-ALLOY (NON-HEAT TREATED)	USES AS FOR SPEC, L.S. BUT NOT SUITED FOR THREADED PARTS. NO RADIOLOGICAL EXAMINATION. DO NOT ANODISE.	4.7	5.6	3.5	4	8		
1010	1575		200	DTD 289.	MAGNESIUM ALLOY (HEAT TREATED)	KNOWN AS "ELEKTRON A.B." AND "MAGNUMINIUM"ALLOY. USE IN PREFERENCE TO ALUM: ALLOY CASTINGS SPECS, L.S. AND L.33. FOR LIGHTLY STRESSED AND UNSTRESSED PARTS WHEREVER POSSIBLE, RADIOLOGICAL EXAMINATION REQUIRED FOR IMPORTANT CASTINGS ONLY, DO NOT ANODISE. CHROMATE TREATMENT REQUIRED.	6	7.2	4.5	5	10	6.5
1	57	2	DTD. 594.	MAGNESIUM ALLOY. (NON-HEAT TREATED)	"ELEKTRON" SAND CASTINGS, COST LESS THAN DTD. 289. SUITABLE FOR LARGE QUANTITIES OF LOW STRESSED PARTS. DO NOT ANODISE. CHROMATE TREATMENT REQUIRED.	5.3	6.5	4	5	9	6	2.5
1	J.		85.383,	BRONZE.	GUN METAL. (SUPERSEDES B.2.)	9.3	11-2	7	15	17	12.5	5
10			8.8.	PHOSPHOR BRONZE.	FOR BEARINGS ETC. SAND CASTINGS.	10	10	7.5	8	15		
190	7		5.2%	M.S.	FOR RIVETING NON-STAINLESS STEEL PLATE.	25	2.5		18	35		
EO	0		-	M.S. STAINLESS.		35	35	***************************************	25	52		
50	5		Annual Control	ALUMINIUM ALLOY.	NO HEAT TREATMENT REQUIRED.	17	17		10	22	-	
FROM	2		4.37	DURALUMIN.	HEAT TREATMENT REQUIRED.	25	25		15	32		
	7		1.36.	ALUMINIUM.		7	7		5	12		
-			T. 26.	M.S.	FOR TUBULAR RIVETS.	15	18		11	30	-	-
,		1		DURALUMIN.	FOR TUBULAR RIVETS.	20	-		-	33		
			T.4.	DURALUMIN.	FOR TUBULAR RIVETS.	20	24		15	33		

		THE
		THE DE HAVILLAND AIRCRAFT PTY, LTD, AUSTRALIA.
-		AIRCRAFT
	-	PTY LTD. AU
	-	STRALIA.

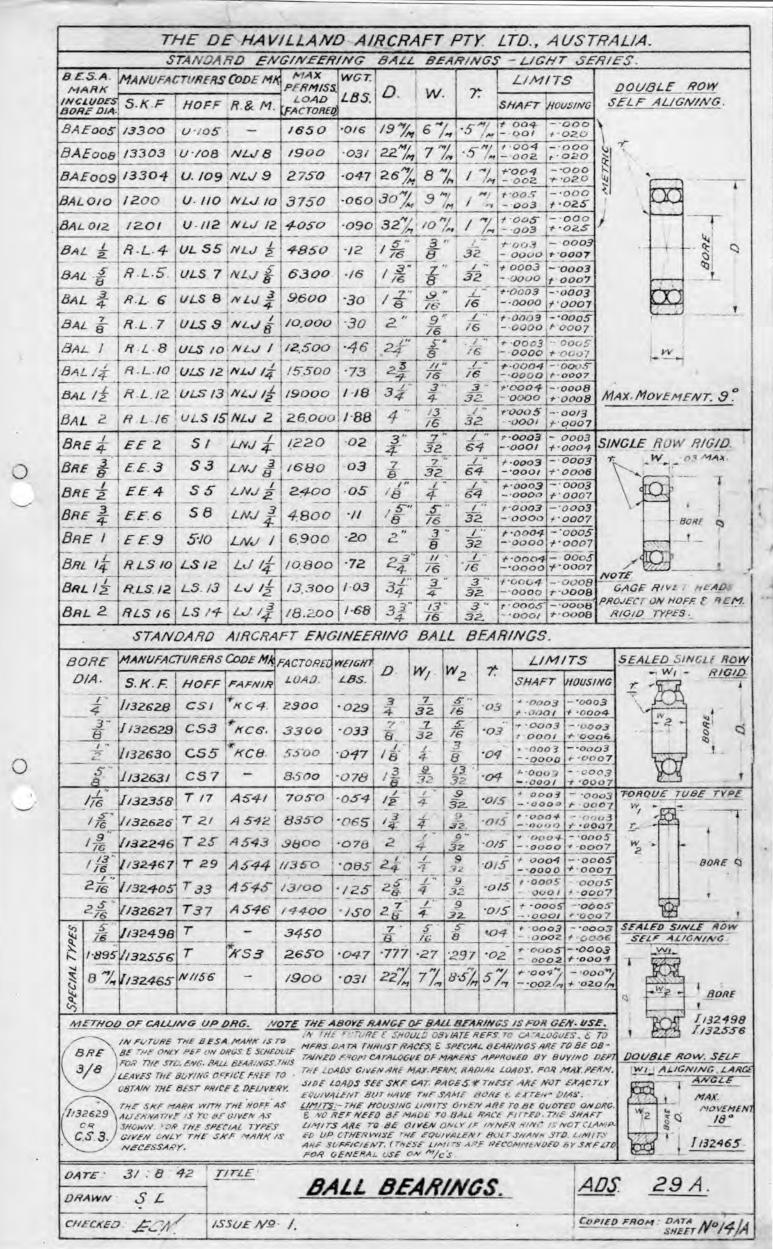
CHECKED.	DATE		MATER	IAL.	SPECIFI- CATION.	TENSION. END GRAIN.	COMPRESSION. END GRAIN.	CRUSHING. ACROSSGRAIN.	SHEAR. ALONG GRAIN.	MOD OF RUPTURE	E/18	WEIGHT.	REMARKS.
. 4	= 4		(9	GRADEA.	D.T.D. 36B.	10,000	5,000	600	900	8,000	1.5	27 LB.	USE ONLY FOR SPAR FLANGES, WING STRINGERS TAIL PLANE SPARS ETC. AND SPRUCE PARTS BEING STRESSED UP TO FULL SPEC. STRENGTH.
CA	12.		SPRUCE	GRADE B.	"	8,000	4,000	600	800	7,000	1.2	"	GENERAL USE, e.g. BULKHEAD RING & STIFFENERS, SPAR PACKING BLOCKS, LONGERONS IN BALSA FUSELAGE
1		l	GRADE C.	"			-	-		-	-	SHOULD ONLY BE USED FOR MINOR ITEMS SUCH AS PACKING BLOCKS FOR MOUNTING EQUIPMENT ETC.	
ISSUE NO.	2 7		MAHOG	ANY.	V. 7		6,250		860	10,000	1.5	33 LB.	
2 5	3 1		ASH.	70	V.4	12,700	5,800		1,500	10,500	1.5	38 LB.	
0.	WOOD PE	,	WALNE	UT.	V. 5		7,000	19.21	1,000	11,500	1.5	39 18.	
7	PERMIS		BALS	A.			529			1,420		7ro15LB.	APPROX.VALUE ONLY.
ij	1551		BIRCH	7 -	V. 3	10,000					1.54	44 LB.	WITH OUTER GRAINS PARALLEL TO LOAD.
8			11		11	4,000						"	WITH OUTER GRAINS 45° TO LOAD.
	C ST		,,		u	6,500						"	WITH OUTER GRAINS 90° TO LOAD
15/	RE				u		.15%		1,800			"	WITH OUTER GRAINS PARALLEL TO LONG AXIS OF MEMBER.
3	STRESSES		"		"			5 (25)	2,100		771-3	4	WITH OUTER GRAINS AT 45° TO LONG AXIS OF MEMBER.
011	N/SE		PORT OFF		M.4017							35 LB.	CONSTRUCTION OF PLY TO CONFORM TO SPEC. 4V3. WITH THE EXCEPTION OF PART I PARAGRAPH I

1. SPRUCE TO SPRUCE. THE PERMISSIBLE SHEAR STRESS IN SPRUCE TO SPRUCE GLUED JOINTS DEPENDS UPON THE ANGLE BETWEEN THE GRAINS OF THE PIECES. AVERAGE VALUE FOR GRAIN ANGLES OF 0° 45° & 90° ARE 800, 375 & 250, LB'IN.2 RESPECTIVELY 2. PLY TO SPRUCE. TEST INDICATE THAT THE PERMISSIBLE STRESS IS LESS DEPENDANT UPON RELATIVE GRAIN ANGLES OF CONTACT SURFACES THAN IN SPRUCE TO SPRUCE JOINTS, AVERAGE VALUES FOR GRAIN ANGLES OF 0,45° & 90° ARE 800, 650 & 800 LB/IN. RESPECTIVELY.

3. SPARS - PLY WEBS & SPRUCE FLANGES. IN BEAMS THE PERMISSIBLE SHEAR STRESS ON GLUED AREA BETWEEN WEB AND FLANGE SHOULD NOT EXCEED 250 LB/IN.2 (N.A.C.A. REPORT 344.)

PERMISSIBLE TORSIONAL SHEAR STRESS IN SPRUCE.

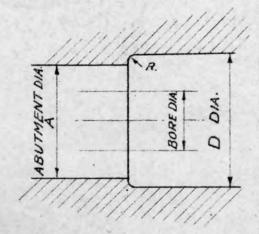
THE PERMISSIBLE SHEAR STRESS IN TORSION IS APPROXIMATELY 1,000/L.B. IN. (N.A.C.A. REPORT 354.)



THE DE HAVILLAND AIRCRAFT PTY. LTD , AUSTRALIA.

STANDARD ABUTMENTS FOR BALL BEARINGS.

BORE DIA.	D	R.	A.
4"	3"	.03"	5"
3"	7"	-03"	3"
1/2	18"	.04"	15"
5" 8	13"	.04"	13"
5"	7"	.04"	3"
	-777"	.02"	5"
8 M/M	221/1	·5M/M	3"



DATE 31:8 DRAWN S.L.	HOUSING ABUTMENTS.	ADS 29 B.
CHECKED EC		COPIED FROM: 14/A

THE DE HAVILLAND AIRCRAFT PTY, LTD., AUSTRALIA.

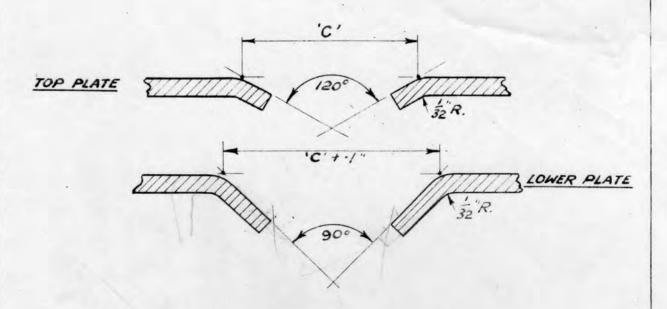
	NO.	SHEET NO.	ISSUE NO.	DESCRIPTION.
DHS.	1		5	BONDING FLEXIBLES.
DHS.	2	1	5	BONDING FLEXIBLES.
DHS.	3	1	6	BONDING TERMINAL
DHS.		1	14	SPECIAL BOLTS VA" B.S.F.
DHS.		2	2	SPECIAL BOLTS 1/4 B.S.F.
DHS.	5		8	SPECIAL BOLTS 5/16 B.S.F
DHS.	6		6	SPECIAL BOLTS 3/8 B.S.F.
DHS.	7		1	SPECIAL BOLTS 7/16 B.S.F.
DHS.	8	-	4	SPECIAL BOLTS 1/2" B.S.F.
DHS	9		3	120° COUNTERSUNK RIVET.
DHS	10		3	BRAZIER HEAD RIVETS.
DHS.	11	1	1	INSPECTION STAMP PLATE
DHS.	12		6	SPECIAL BOLT 2B.A.
DHS.	13)	1	IDENTIFICATION TAB.
DHS.	14	1	4	BOLTS WITH C.S.K. HEADS.
DHS.	15		2	BOLTS WITH RAISED C.S.K. HEADS.
DHS.		1	3	TERMINAL.
DHS		1 .	2	ASSY; OF SPRING CATCH ON JUNCTION BOXES.
DHS.		2	3	DETAILS OF SPRING CLIP FOR JUNCTION BOXES.
DHS.		1	4	DRAIN WASHER.
		,		
			-	27
				Same and Comments
OHS.		2	5	PIPE CLIPS (SINGLE).
OHS.	29	1	1	PIPE CLIPS (DOUBLE)
DHS.	29	2	3	PIPE CLIPS (DOUBLE).
	30	1	2	P PIPE CLIPS.
	1000000			P. PIPE CLIPS.
DHS.		2	4	
DHS.	30	2	3	TUBULAR CLIPS
DHS. DHS.	30	1	1	TUBULAR CLIPS.
DHS. DHS. DHS.	30 31 31	2 / 2 /	3	TUBULAR CLIPS.
DHS. DHS. DHS. DHS.	30 31 31 32	1	3 2 /	TUBULAR CLIPS. ANGLE WASHERS.
DHS. DHS. DHS. DHS. DHS.	30 31 31 32 33	1	3 2 /	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS.
DHS. DHS. DHS. DHS. DHS.	30 31 31 32 33 34	2 / /	3 2 /	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS.
DHS. DHS. DHS. DHS. DHS. DHS.	30 31 31 32 33 34 35	1	3 2 / / 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES.
OHS. OHS. OHS. OHS. OHS. OHS.	30 31 31 32 33 34 35 36	2 / /	3 2 / / 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS.
OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 31 32 33 34 35 36 37	2 / /	3 2 1 1 3 4 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38	/ 2 / / / / /	3 2 / / 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38 38	2 / /	3 2 1 1 3 4 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39	/ 2 / / / / /	3 2 1 1 3 4 1 4 1 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 1 1 3 4 1 4 1 1 2	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38 38 39	1 1 1 1 1 2 1 2 1 2 2	3 2 1 1 3 4 1 4 1 1 2 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38 38 39	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 1 1 3 4 1 4 1 1 2	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39 41 41 42	1 1 1 1 1 2 1 2 1 2 2	3 2 1 1 3 4 1 4 1 1 2 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 39 41 42 44	1 1 1 1 1 2 1 2 1 2 2	3 4 1 4 1 1 2 1 1	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39 41 42 44 46	1 1 1 1 1 2 1 2 1 2 2	3 4 1 4 1 1 2 1 1 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS. PLUG ENDS (SCREWED).
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39 41 42 44 46 47	1 1 1 1 1 2 1 1 2 1	3 4 1 4 1 1 2 1 1 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS. PLUG ENDS (SCREWED). BALL RACE HOUSING ADJUSTABLE CONTROL RODS.
DHS. DHS. DHS. DHS. DHS. DHS. DHS. DHS.	30 31 32 33 34 35 36 37 38 38 39 41 42 44 46 47 48	1 1 1 1 1 2 1 1 2 1	3 4 1 4 1 1 2 1 1 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS. PLUG ENDS (SCREWED). BALL RACE HOUSING ADJUSTABLE CONTROL RODS. BONDING FLEXIBLES HEAVY TYPE.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38 39 41 42 44 46 47 48 49	1 1 1 1 1 2 1 1 2 1	3 4 1 4 1 1 2 1 1 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS. PLUG ENDS (SCREWED). BALL RACE HOUSING ADJUSTABLE CONTROL RODS. BONDING FLEXIBLES HEAVY TYPE. BONDING FLEXIBLES HEAVY TYPE.
OHS. OHS. OHS. OHS. OHS. OHS. OHS. OHS.	30 31 32 33 34 35 36 37 38 38 39 41 42 44 46 47 48 49 50	1 1 1 1 1 2 1 1 2 1	3 4 1 4 1 1 2 1 1 3	TUBULAR CLIPS. ANGLE WASHERS. SHRINKAGE WASHERS. STANDARD WASHERS. STANDARD BLANK SIZES. RUBBER COUPLINGS. UNION PIPE END. SPECIAL PINS. SPECIAL PINS. WASHER: ALTERNATIVE TO A.G.S. 946. FORK END EYEBOLTS. FORK END EYEBOLTS. FORK END EYEBOLTS. PLUG ENDS (SCREWED). BALL RACE HOUSING ADJUSTABLE CONTROL RODS. BONDING FLEXIBLES HEAVY TYPE. BONDING FLEXIBLES HEAVY TYPE. BONDING FLEXIBLES HEAVY TYPE.

DATE 11-9-42 TITLE DHS. INDEX. ADS. 30A

CHECKED. ISSUE No. / TRACED FROM

PART NO.	SHEET NO.	ISSUENO.	DESCRIPTION.	
DHS. 53	1	2	SMALL PULLEYS AND BOBBINS.	
DHS. 54		1	CABLE INSPECTION TABS.	
DHS. 55	1	2	GASKETS.	
DHS. 58	1		PIPE COLLAR.	
DHS. 62		1	STAINLESS STEEL TANK BOLTS.	
DHS. 63		1	STAINLESS STEEL TANK BOLTS.	Live The Section
DHS. 64	1	3	CLIP.	
DHS. 66	. 1		SHIM WASHERS FOR WOODWORK.	
DHS. 67	1	1	BRASS SLOTTED NUTS.	
DH5. 68	1	1	SHIM.	
DHS. 69	1,		SHIM.	
DHS. 70			SPECIAL WASHER.	
DHS. 71		4	ATTACHMENT FERRULE FOR PLY-BALS	A CONSTRUCTIO
DHS. 73		2	BANJO FITTING.	
DHS. 74		2	BANJO PILLAR BOLT.	
DHS. 75	1	3	ADAPTOR FOUR WAY TYPE.	
DHS. 75	2	2	ARRANGEMENT OF MULTI-WAY METAL	COUPLINGS.
DHS. 76			(LIGHT ALLOY.)	
UHS. 76		3	ADAPTOR PIPE (RANGE OF SIZES) TO	FITTING (74 8.3.)
DHS 77		1	PIPE COLLAR FOR METAL COUPLINGS	
DHS. 78		2 2	OUTER SLEEVE FOR METAL COUPLIN	GS.
DH5.91-92		,	GROUND STEEL PINS.	, to
			Oncomo Greezerina.	
DHS. 95-6-7	1	4	SPECIAL CUP WASHERS FOR 4 B.S., 1/4 B.S.F. AND 5/16" B.S.F. C'SK HEA	
DHS. 98	1	1	ATTACHMENT FERRULE FOR PLY-E	BALSA
DHS. 99	, ,	. ,	WASHER: ALTERNATIVE TO A.G.S. 9	47.
DHS. 101	1	4	PIPE TO PIPE CONNECTOR.	
DHS. 101	2	1	ARRANGEMENT OF METAL COUL	PLINGS.
		(T.	(LIGHT ALLOY.)	
DHS. 101	3	1	ARRANGEMENT OF METAL COUPLING (LIGHT ALLOY.)	S.
DHS. 102	-1	2	ADAPTOR PIPE TO FITTING.	
DHS. 103	1		ATTACHMENT FERRULE FOR PLY-BAL	SA CONSTRUCTIO
DATE. II- 9	- T	TITLE.		ADS.301

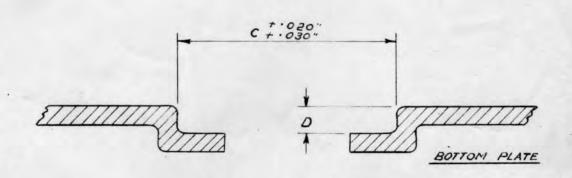
THE DE HAVILLAND AIRCRAFT PTY. LTD. AUSTRALIA. AIRCRAFT DIVISION



HOLE BEFORE DIMPLING

TOP PLATE TO LOWER PLATE 13

TYPE OF FASTENER 'F'
SPRING Nº S6-400, S6-425, 1375
DIMENSION 'C' .84"



HOLE BEFORE	TYPE OF FASTENER	C	D	SPRING PART NO
5	A	9	.033"	\$5-200,100,55 225
13" 32	В	16"	.040	S6 - 250, S6 · 275, 200

THESE PARTICULARS RELATE TO OLD SYSTEM OF PART NUMBERING.

DATE: 10-3-43	DIMPLES FOR DZUS FASTENERS	ADS 32 4
DRAWN :- MS.		1100 02 11
CHECKED 1.	ISSUE Nº X & 3	

THE DE HAVILLAND. AIRCRAFT PTY. LTD. AUSTRALIA

TYPES A&B

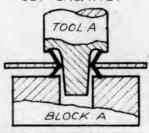
WITH GROMMET OPERATION I DRILL COWL

TYPE A DRILL 3 INSERT GROMMET



FOR TYPE A - GROMMET #375 FOR TYPE B - GROMMET # 500

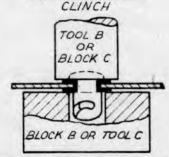
OPERATION 2 SET GROMMET



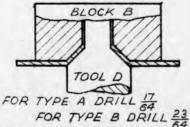
OPERATION 3



OPERATION 4



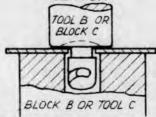
WITHOUT GROMMET OPERATION I. DRILL & DIMPLE



OPERATION 2 INSERT FASTENER



OPERATION 3 CLINCH

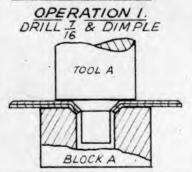


DIMPLING COWL SUPPORT

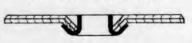


FOR TYPE A DRILL 5 FOR TYPE B DRILL 13 FOR TYPE F DRILL TO FOR TYPE FA DRILL TE FOR TYPES A & B USE -BLOCK D & TOOL D FOR TYPES F & FA USE -BLOCK B & TOOL B

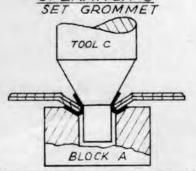
TYPES F & FA



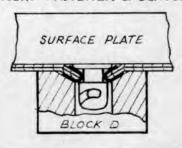
OPERATION 2 INSERT GROMMET





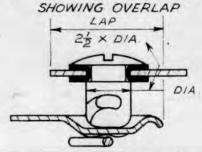


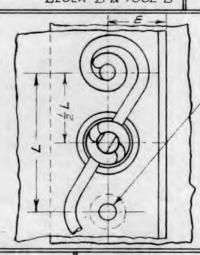
OPERATION 4 INSERT FASTENER & CLINCH



STANDARD SPRING INSTALLATION

TYPICAL VIEW FROM INSIDE





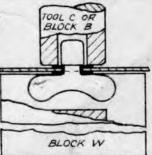
DRILL #30 B C'SINK ADXIIO FOR R.H.RIVET

FOR TYPE A-E=3 MIN. FOR TYPES B, F, FA - E = MIN.

WING TYPES AW & BW

OPERATION 4 CLINCH

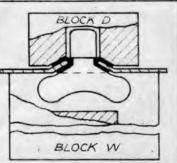
OTHER. OPERATIONS SAME AS FOR



WING TYPES FW & FAW

OPERATION 4 INSERT FASTENER & CLINCH

OTHER OPERATIONS SAME AS FOR TYPES F & FA



Date 26 10 42.

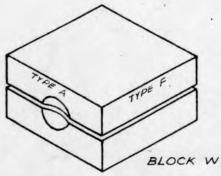
MH Drawn Checked Ctu

Issue No.

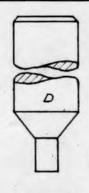
DZUS FASTENERS-INSTALLATION & INSTRUCTIONS

A.D.S. 32 B

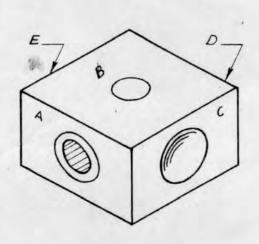
USE BLOCK W FOR ALL WING



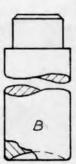
SELECT SIDE OF BLOCK MARKED WITH LETTER CORRESPONDING TO THE TYPE OF FASTENER USED



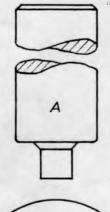
TOOLS & BLOCKS FOR

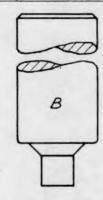


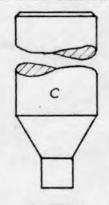


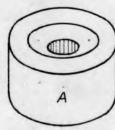


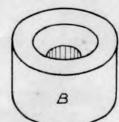
TOOLS & BLOCKS FOR INSTALLING TYPES F & FA

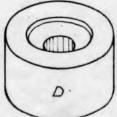












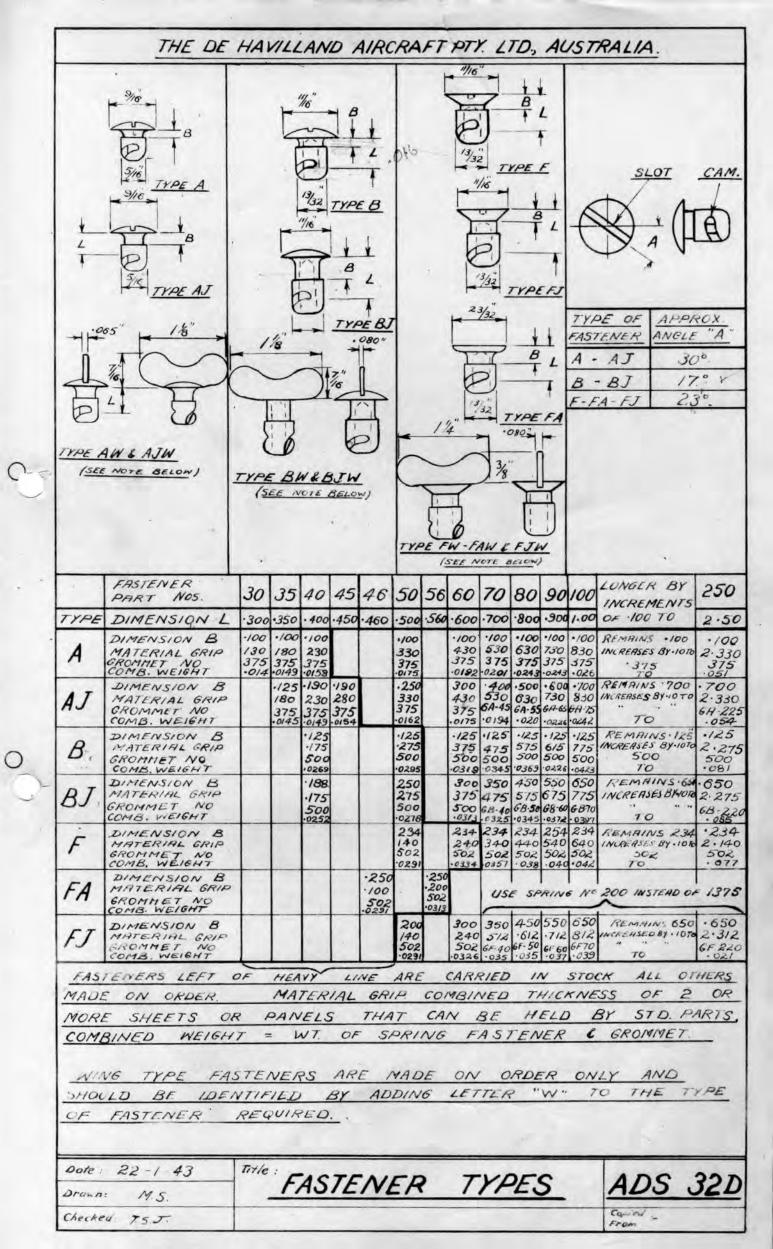
THESE TOOLS ARE CASE HARDENED-

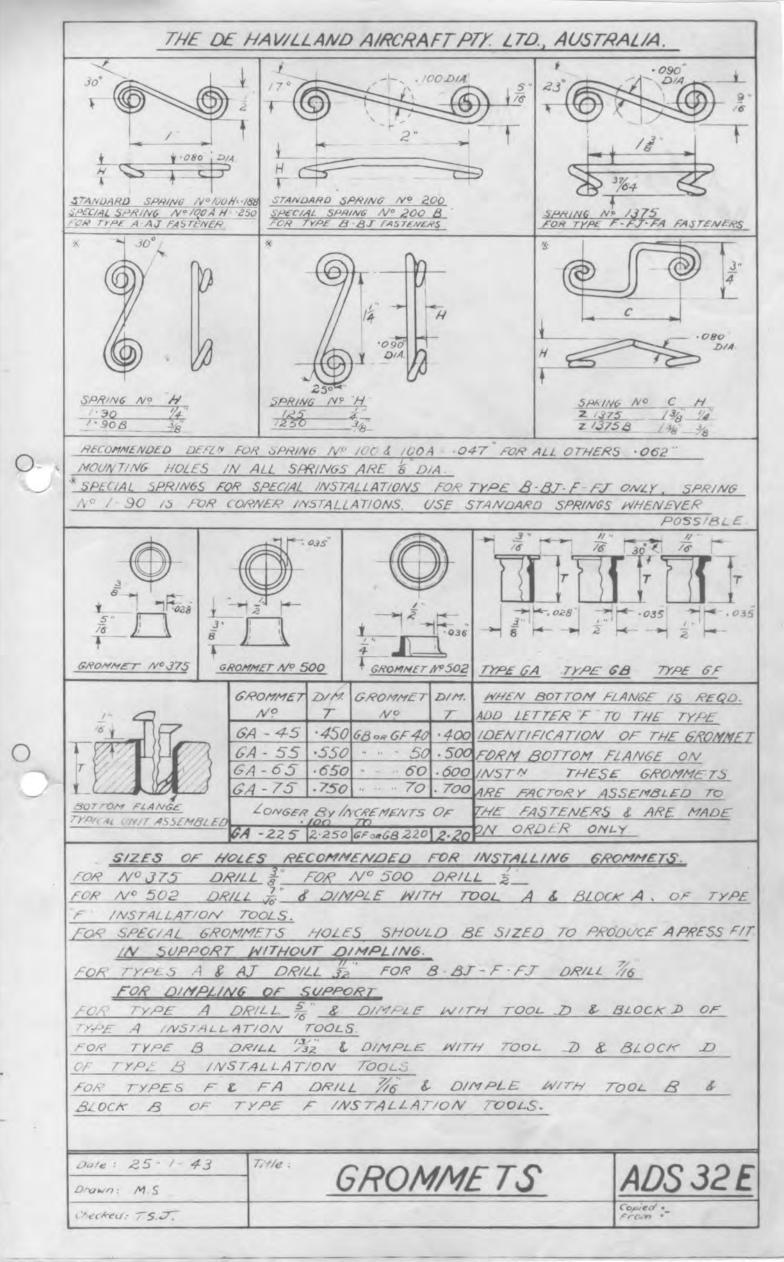
Date 26 · 10 · 42

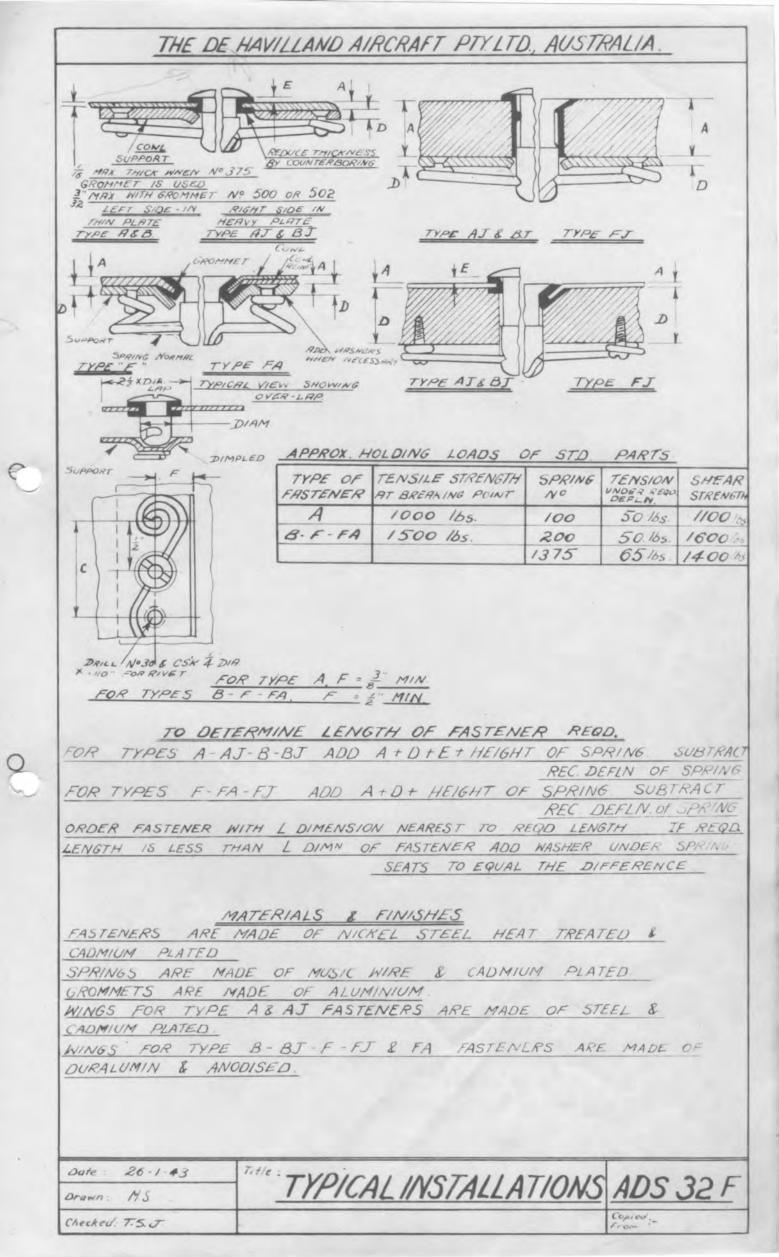
Checked Pau Issue

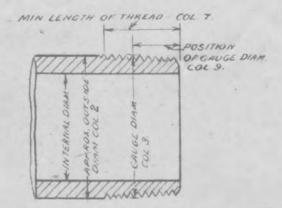
DZUS FASTENERS-INSTALLATION & INSTRUCTIONS

2 Issue No A.D.S. 32 C







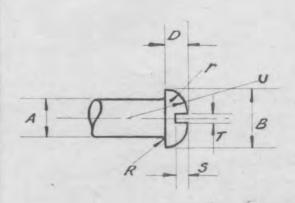


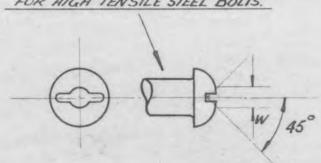
1	2	3	4	5	6	7.	8	9.	10	11
NOMINAL	APPROX	GAGE	DEPTH	CORE DIAM MEASURED AT SAME DISTANCE FROM END	NUMBER	L	OF THREAD.			PIPE END
BORE OF	BLACK	DIAMETER	OF INTERES	OF PIPE AS THE GAUGE DIAM	PERINCH	END MIN	MIN.	STANDARD	MAX	MIN
8	13	0.383	0.0230	0.337	28	38	3 4	5 32	0-18	0/3
4	17 32	0.518	0.0335	0.451	19	76	8.	3 16	0.22	0.16
3.8	11	0 656	0 0335	0.589	19	2	1	4	0 29	0.21
2	27	0.825	0 0455	0.734	14	5 8	14	4	0.29	0.21
5	16	0.902	0.0455	0.811	14	58	14	4	0 29	0.21
34	116	1.041	0.0455	0.950	14	34	12	3) 8	0.44	0-31
7 8	132	1.189	0.0455	1.098	14	34	12	3,8	0.44	0.31
/	132	1.309	0.0580	1-193	11	8	13	38	0 44	0.31
14	126	1.650	0.0580	1.534	11	1	2	2"	0.58	0.42
12	129	1.882	0 0580	1.766	11.	1	2	1/2	0.58	0.42

DATE 11 - 1 - 43.	TITLE	40000	
TRACED E MASON	BRITISH STO. PIPE THREADS.	ADS. 33	
CHECKED CAS	ISSUE Nº	COPIED FROM MACHINIST'S HANDBURK	

THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA.

DETAILS OF IDENTIFICATION C'S'K FOR HIGH TENSILE STEEL BOLTS.





-	THICKNESS		WER SLOT	RADIUS	RADIUS	CORNER	OF IDENT
OF OF HEAD	MICKNESS	DEPTH	WIOTH	MAX.	DOME	RADIUS	CSK FORHT
B	0	5	T	R	0	-	W
194"	.077"	.046	-034"	-02	193"	.072"	.07"
·252" ·242"	·099" ·093	:060"	.030"	.02"	248	.092	-09
3/9"	130	.078"	-040"	.02"	324	.120"	-11
		18				1	
	B -194 -184 -252 -242 -319	OF THICKNESS HEAD B O 194 184 -072 -252 -099 -242 -093	OF HEAD THICKNESS B D 194 077" 184 072 046 252 099" 242 093 060	OF HEAD THICKNESS DEPTH WIDTH B D 5 T .094 .077" .046" .024" .184" .072" .046" .034" .252" .099" .060" .030" .242" .093 .060" .040"	SCREWORNER SLOT	SCREWIDANER SLOT	SCREWORNER SLOT

L ROUND HEAD BOLTS AS SHOWN ABOVE ARE TO BE USED ONLY
WHERE THE BOLT IS IN SUCH APOSITION THAT THE SCREWDRIVER
SLOT WILL BE ACCESSIBLE WITHOUT REMOVAL OF ADJACENT PARTS
WHEN USING A SCREDRIVER OF APPROPATE DIMENSIONS I.E. NO
SPECIAL TOOL WILL BE REQUIRED TO HOLD THE HEAD AND THE MEXAGON
HEAD IS NOT ESSENTIAL FOR LOCKING PURPOSES.

2. HIGH TENSILE BOLTS HAVE A DIMPLE IN THE SLOT AS SHOWN.

IN ALL OTHER RESPECTS THE REQUIREMENTS OF D.T.D. SPECIFICATIONS

398 FOR LOW TENSILE COLD HEADED STEEL BOLTS, 401 FOR HIGH TENSILE

COLD HEADED STEEL BOLTS \$523 FOR LIGHT ALLOY COLD HEADED BOLTS

APPLY. TESTS HAVE SHOWN THE STRENGTH OF A ROUND HEAD TO THE

DIMENSIONS SHOWN IS AT LEAST EQUAL TO THE STRENGTH OF THE BOLT

IN TENSION.

	n-R.Poynter.
Date-	15-5-44

(COLD HEADED BOLTS.

ADS. 34A.

From Data Stat. 6A.

THE DE HAVILLAND AIRCRAFT PTY.LTD. AUSTRALIA

3. BOLTS SHOULD BE CALLED UP BY QUOTING THE CORRESPOND
ING B.S.S. PART NUMBER WITH THE ADDITION OF THE

LETTER "R", e.g. 4 BA LOW TENSILE COLD HEADED BOLTS

WITH ROUND HEAD & LENGTH OF PLAIN SHANK 0.5", WILL

BE PART Nº 6 AI/5 B.R.

Date: 15-1-43

Drawn: H.S.

Checked: An Title: ROUND HEADED BOLTS CONTO ADS. 34 B

Checked: An Copied DATASHT. 68

THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA.

FITTING OF RIVETS, TAPER PINS, & BOLTS WITH DRILL SIZES

	RI	VETS	TAPER			
DIAMETER	STANDARD	NOMINAL	STANDARD	NOMINAL		
16"	Nº 51	067"	Nº 53	0595"		
32"	Nº 40	-098"	Nº 43	089"		
1"	Nº 30	.1285"	Nº 31	.120*		
<u>5</u> " 32	No 21	-159"	Nº 23	1540"		
3"	Nº 12	./89"	Nº 13	1850"		

SIZES OF DRILLS FOR HOLES TO SUIT AI AND AGS. BOLTS & SP4 PINS

	2	TABLE 1	TABLE //			
DIAMETER	STANDARD	NOMINAL	STANDARD	NOMINAL		
6BA	Nº 33	1130"	Nº31	-120"		
48A	Nº 27	1440"	Nº 25	.1495		
284	. Nº 13	1850"	Nº11	1910"		
32 B.S.F.	Nº2	-221"	Noi	-228"		
4 BS.F.	E	250"	G	261		
9" 32 B.S.F.	K	28/"	M	295		
16 B.S.F.	0	3/6"	P	323"		
3" B.S.F.	V	377"	25" DIAM	3906*		

NOTES

- 1. Drill sizes in Table II are to be used wherever practicable.

 Drill sizes in Table I are for bolts or pins for which Fit "A" or

 Fit B" holes are not warranted, but for which closer tolerances
 than called for in Table II are required.
- 2 Al and A.G.S. Bolts connot be threaded down.
- 3 Bolts have a radius under head. All plates or fittings must be countersunk where necessary to accommodate this 02" at 45° for B.A sizes \$ 03' at 45° for B.S.F sizes (up to 1")
- 4. All H.T.S Bolts must be fitted with H.T.S. Nuts as standard

DATE 26.8.42	TITLE	100 25
DRAWN B.P.M.	FITTING OF BOLTS PINS & RIVETS	AUS 35
CHECKED B.W.	ISSUE NO 1	COPIED FROM DOTO SHI NO. 6

AVOMENALAL		_4	BOLT ,	HOLES			OLES KLE P		TC.
SIZE	DIMENSION	GOOD FIT	GOOD FIT CLEAR G					IN HOL	E
*			ORILL N	SIZE	CLEARNESS • 1000		DRILL N	SIZE	CLEARNE × 1000
6 <i>BA</i>	110	-	31	120	10	-	-	-	-
484	.142	-	24	152	10		-	-	-
32	15625	-	-	-	-	Nominal 1001	20	-161	43
28A	-185	+ 004	10	./93	8.	-		-	-
3"	.1875	Nominal Nominal	-	-	-		9	196	82
32	-21875		1	228	104	Reom Nominal	1	-228	104
4"	.25		G	261	11	+ 002	. G	261	11
9" 32	-28125		64	above			M	295	133
5"	3/25			nomino				above mino/	
32"	34375						//	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
3" 10 2"	-					Ream			
Over t		Ream Nominal + 005 + 001				Norminal +003 +001			

DATE 31.8.42	TITLE HOLES	105 37
DRAWN BPM	(AIRCRAFT DIVISION AUSTRALIAN CODE)	ADS ST
CHECKED INS	ISSUE Nº 1	COPIED FROM

A TABLE OF

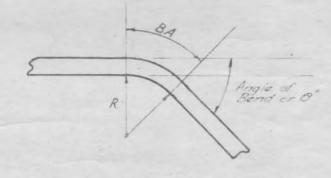
INCH AND MILLIMETRE EQUIVALENTS.

INC	HES.	M/M.	IN	CHES.	мм.	IN	CHES.	M/M.	IN	CHES.	M/M.	INC	HES.	м/м-	INCHES.	M/
	-01	254	1364	-203125	5-1594	13/22	-40625	10.3187	39	-609375	15-4781		-807087	20.5	1-19110	30
1 54	-015625	-3969		-2/	5.334	0.00		10-414			15-494			20:574		3
	-019685	.5		-216536	5.5		4/3386	10-5		-610237	15.5	13	8/25	20-6375	1.57480	4
	-02	-508		21875				10.668			15.748	1.00		20.828		4
	-03	-762	34				421875	10.7156			15.8750			21		5
1 2	-03/25	-7937			5.842	9		10.922	-	629922		100000		21.0344		50
12	-039370	1	15 64		5.9531		433071	11			16:002	-		21-082	100000	-5
	-04	1.016	0.7	23622/		Marie I	10000000			-64	16 256		84	2/336	23622/	6
3 4	-046875	1-1906		24	6.096	200		11-176	41	-640625	1627/9	27	-84375	2/-43/2	255906	6
	-05	1-270	1	-25	6.350		.45				16:5					7
	-059055		7	255906							16:510		-85	21-590		100
		1.524		1			100000000000000000000000000000000000000			11000	16.6687			2/828/		76
6			17	265625		10000		11.684			16764	-		21-844		1
0	.07	1.778	04	-27		1000					17			200		
54		1.9844		.275591		7		11.938			17.018			22.098		
4	-078740	2000		1055 A 10 19	7.1/2				200		17-0656			22-2250	2000000	
		2.032		28/25				12.192	64	1000	/7-272	0		22-352	100000	
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3		2.286									17:4625				4	
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7		2.540	-		7-620	-		12-700			17.780			22:860		127
7		2.7781	5								17.8594				5-11811	
	. //	2.794			7.9375	100	-511811		1	-708662		-		23-0167		14
		3		314961					Branch Co.		18.034					
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8	125	3.1750	64	-328/25							/8 288	- ·				
		3.302									18.5		925198	23.5	6-69292	17
	137795			-334646	8.5		-53/496	13.5	1	.73	18-542					17.7
			100								18-6531					
9	140625	3.57/9	32	34375	8.7312	64	-546875	13.8906		-74	18:796		.94	23-876	7-48032	15
	15	3.8/0		1	8-890			13.970			19			24	7.87402	24
5	15625	3.9687								.75	19.050		.95	24-/30	8	203
	-157480	4	64	359375	9-1281		.56	14:224		-76	19304	64	953/25	24-2094	826772	2/
	./6	4.064		.36	9.144	9	-5625	14-2875	49 64	-765625	19.4469		-96	24:384	8-66/42	22
	-/7	4.3/8		-37	9-398	-	-57	14.478		-767717	19-5		964568	24.5	9	228
11	-17/875	4.3656		374016						.77	19.558	3/	96875	24-6062	9-05513	23
99	177165		310	375	9:5250	37	-578/25	14.6844		-78	19.812			24.638		
	1023	4.572			9.652						19-8437					
36	1875	4.7625				1			1		20					254
				390625			1							1		
	19685/		64	39370/							20:2406			25-146		
		5.080			10-160	1		15.240	1		20:320			25.40		
				-	E /N	_							_			

GAUGE	THICKNESS	MIN RADIUS	ALLOWANCE FOR 90°	FRACTION TO BE MULTIPLIED BY DEGREES
No	INCHES	INCHES	INCHES	INS/DEGREES OF BEND
6	192	38	748	00831
8.	160	25	518	00576
10	128	.20 -	415	00461
12	104	.16	-333	00370
14	-08	.12	-251	00279
16	064	.08	-176	-00196
-17	.056	06	-139	.00154
18	.048	05	116	00129
20	. 035	.04	-090	-00100
22	-028	03	-0691	000768
24	-022	.03	0644	000714
26	018	-02	0456	000506
28	.015	-02	0432	000480

This chart utilises "Mean Radius"

Bend Allowance 11 (2R-7)0
360



DATE 1 9 42 .	TITLE TABLE OF	ADS 39
DRAWN BPM	GAUGES & BENDING RADII	AUS 33
CHECKED ECN	ISSUE Nº 1	SOPIED FROM

In aircraft design it is often necessary to specify the exact method of applying wood because of its anisotropic nature and physical properties. If not applied properly, in time, wood may cause a considerable amount of trouble because of expansion and contraction caused by changes in the humidity of the air.

Fig. 1, on accompanying sketch, shows a cross section of a log on which are denoted three characteristic "directions" - longitudinal L, radial R and tangent T. These three "directions" have different strength properties as well as different shrinkages, due to moisture changes. When we assume for the direction L the skrinkage = 1 we shall obtain for R an approximate shrinkage of 50 and for T an approximate shrinkage of 90 (for Sitka spruce).

Fig. 2 shows a block of wood which has been cut from log Fig. 1-A and on it is shown the main idea of technically describing the direction of the grain. The end grain is marked with a slightly curved double arrow. This double arrow denotes the tangential direction of the grain. The longitudinal direction L is marked with a straight arrow.

Fig. 3 shows the same block in projection with the same markings. When it is necessary to indicate the exact direction of the grain it is possible to note the angle between the tangential direction and the edge of the block as illustrated. It is also possible to give tolerances for the angle i.e. $\propto 30^{\circ}$ f 5°. This method is especially useful when describing the grain on glued blocks consisting of several layers, such as shown in Fig. 4.

Specifying the grain direction in laminations or in solid blocks is important in wooden aircraft because fittings are usually attached to them. In such blocks it is essential to direct the grain of the wood in the direction of the applied force and it is necessary to take care that shrinkage of blocks inside stationary fittings be as small as possible. In other cases, after a certain time, a large clearance may appear between fittings and wooden parts which could be very dangerous.

Fig. 4 shows a block consisting of three layers with different grain directions.

Fig: 5 is same block in projection on which are marked all required directions of the grain for each layer. In designating veneers of layers, each layer is numbered, No. 1 always being the face. These layers are usually at cross grain to each other at an angle to suit the needs of the designer. This angle to be indicated on the drawing as described for Fig. 3.

DATE 1-8-42.	TITLE WOOD IN AIRCRAFT DESIGN.	ADS 40 A
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Spec for Douglas Fir At 15% Thorstone Contest End Grain Conpression = 7000 ll /in2 Hodula of Rupture = 1,900,000 lh/in2 Density at 15% = 32 lbs/en. ft. Jeod = 5 Straight of Grain Solid = 1 m 15 Samueled = 1 4 12 I merean or decrease of values for 12 decreases wirens of misture content between thinits of 10-20% moisture content.

End Grain Confinession = 300 lh fin ?.

Youngs Module = 40,000 lh fin?

Modules of Ruphi = 400 lh/2?

THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA.

GENERAL INSTRUCTIONS ON DRAWING OFFICE PRACTICE.

Size of Sheets:- A 7" X 9"

B 14" X 9"

C 19" X 14"

D 29" X 19"

E 39" X 14"

F 39" X 26"

H 52" X 29"

These dims.are border lines and except in the case of "A" size the Title Block to go in bottom R.H. corner - where the longest side is the bottom.

Scale: - Where two or more different scales are used on one drawing these should be noted on the appropriate views.

Lines - Projections: - (See AIS NO. 4/c.

Dimensions:-

Decimals of inches, up to 100, are used throughout, except for nominal sizes of stock quoted in material list, where fractions or millimeters may be used if applicable.

Even numbers to two places of decimals are used wherever possible so that the dimension may be bisected without requiring an additional decimal place.

Dimensions which are not drawn to seele must be underlined. Drawings which are badly out of scale or distorted should be corrected or redrawn.

Overall dimensions from a datum are preferred to a series of dimensions which must be added to locate a point.

Dimensions should not be duplicated on various views or on a single view, except where they will add to the clarity of the drawing, and no more should be given than those required to produce the part.

All dimensions should read from the bottom of the drawing and their accompanying dimension line should be placed outside the figure.

Dimensions indicating the radius or diameter of a circle should be followed by R, RAD or DIA.

Dimension lines should be fine, full lines (broken where the dimensions are inserted) so as to contrast with the heavier outline of the part and should be placed outside the figure wherever possible.

Part Name: - The basic noun describing the part is placed first, followed with brief description, i.e: -

Panel - Instrument. Bracket - Instrument Panel.

DATE 1-9-42	GENERAL INSTRUCTIONS.	ADS. 41A
DRAWN	DENERAL MISTROCTIONS.	1120. 717
CHECKED WY	ISSUE NO !	COPIED FROM

GENERAL INSTRUCTIONS ON DRAWING OFFICE PRACTICE. (2)

Calling up: - Each part must be called up once only. For clarity the balooning of the same part on another view or drawing is permitted provided it is marked "Ref. only". Parts may be grouped for single balooning provided the quantity is clearly marked "No. Off", Likewise two identical parts may be called up separately with the same proviso.

Handing: - Left Hand is always drawn first and the drawing noted to the effect, with the note, "RH - Opp Hand" - and the RH Part No. added, i.e:-

H 43276 LH Drawn H 43277 RH Opp Hand.

In the quentity space the No. Off will be so many LH and so many RH, i.e:-

2 - LH 2 - PH

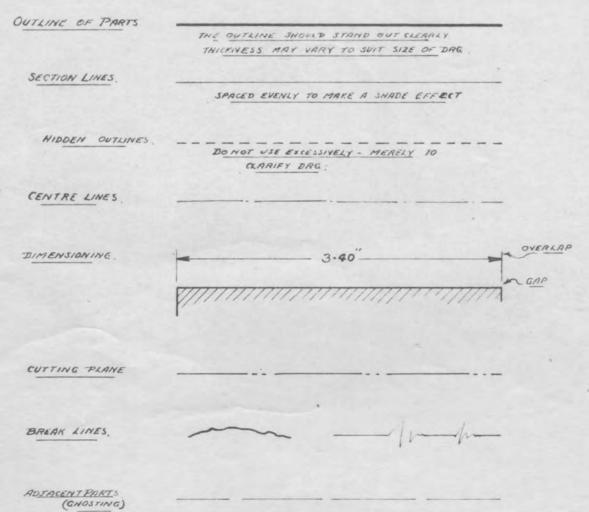
Alterations: - After a drawing or alteration has been approved, any further alterations must raise the Issue of the drawing, whether Experimental or Production Issue.

On going into Production Issue, the number follows on as e.g:-

Exp. Issue X 2 Prod. Issue 3.

DATE 1-9-42	TITLE GENERAL LICE	1775 118
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THE DE HAVILLAND AIRCRAFT PTY. LTD., AUSTRALIA.

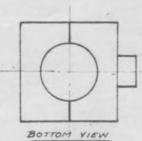


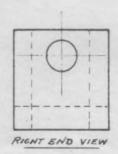
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BELOW TO BE USED ALWAYS.

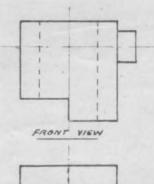
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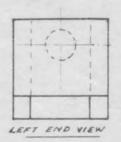
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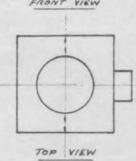
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DATE 1-9-42.

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LINES & PROJECTIONS

ADS 41.C.

DRAWN

ISSUE Nº

TITLE

COMED FROM.

THE DE MAVILLAND AIRCRAFT PTY. LTD., AUSTRAL TABLE TABL MATERIAL SPECN. STO. Nº 0.6D Langth 5" 4.36 A.S. 155 ALUMINIUM DIA. "D" L37 DURALUMIN A.S. 156 PART LENGTH A.S. 157 MAGNESIUM ALLOY D.T.D. 303 202 20/32 TONS 203 303 403 45% NICKEL ALLOY TO 237 or DTD 268 A.S.458 204 304 404 504 D.T.D. 204A SNAP HEAD RIVETS 205 305 405 505 0.70.367 A.S.458 TUNGUM 506 306 406 205 COPPER A.S.459 DIAMETER 'D' 207 307 402 507 DEPTH OF HEAD 09 -19 23 208 308 408 508 DIA OF HEAD 55 44 66 509 209 309 409 APPRAD OF HEADR 310 410 510 210 0.40 Length 411 511 311 3/2 412 A5.158 DURALUMIN L.37 2 313 AS 159 MAGNESIUM ALLOY DTD 303 0 2/4 314 414 514 2-250 515 215 3/5 415 216 416 3/6 516 18 3/8 418 518 MUSHROOM HEAD RIVETS 14 320 420 520 DIAMETER"D 322 422 522 050 063 038 15 35 374 424 524 210 DIA OF HEAD 14" 42" 49" 22" 270 35" 39" 44" 55" 66" APP RAD OF HEAD'R A.S. 160 ALUMINIUM 136 4 A.S.161 DURALUMIN 137 2 A.S 162 MAGNESIUM ALLOY DTD 303 TABLE A.S. 460 20/32 TONS MILD STEEL 0 90° 1.750 DIA.D" 45 % NICKEL ALLOY A.S.461 DT.D. 268 PART ENGTH A5462 MONEL METAL D.T.D. 204A 2 202 A 5.466 TUNGUM D.T.D. 367. 90° CSK HEAD RIVETS 203 303 A.S.467 COPPER 4 204 304 404 DIAMETER "D' 305 205 405 505 DEPTH OF HEAD 094 070 .082 206 306 406 506 22" 27 38' 44' 55" 66 DIA. OF HEAD 207 307 407 507 208 308 408 508 Length ALUMINIUM A.S. 163 1 36 4 309 409 209 509 A.S.164 DURALUMIN 137 2 310 410 510 210 D.T.D. 303 A.S. 165 MAGNESIUM ALLOY 311 411 120° 200 0 A.S.463 MILO STEEL 20/32 TONS 412 5/2 312 AS.464 45% NICKEL ALLOY D.T.D. 268 3 313 413 5/3 AS.465 MONEL METAL D.T.D. 204A 314 214 114 514 A.S.468 TUNGUM D.T.D. 367 120 CSK HEAD RIVETS 515 215 315 415 316 416 5/6 DIAMETER'D' 18 3/8 418 518 DEPTH OF HEAD OIS' 027 036 045 054 063 072 090 108 14 420 520 320 313 375 438 500 .625 322 422 522 16 424 524 324 0.250 Length The last two figures in the tables denote A.S. 469 COPPER 4 of the rivets in it in figure or figures des FLAT HEAD RIVETS Method of 15 15 DIAMETER D' calling up on

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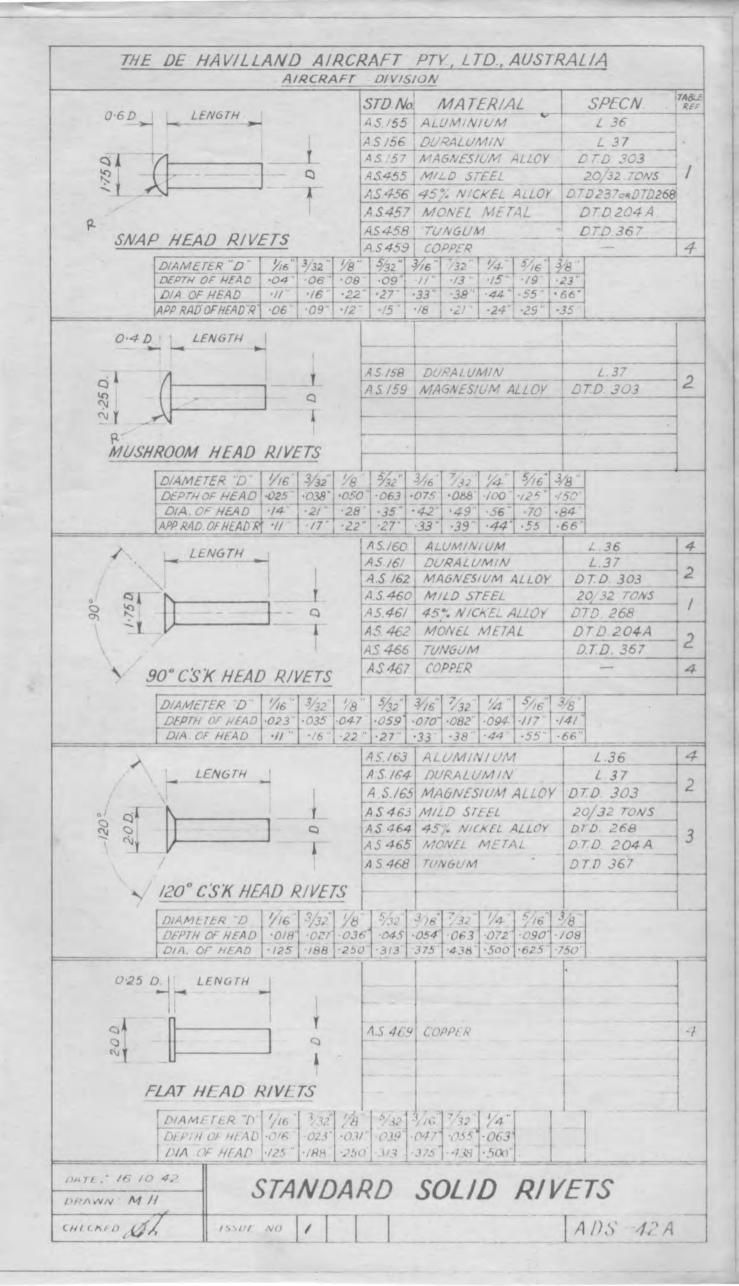
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	209 210 211 212 213 214 215 216 202 203 204 205 206	209 309 210 310 211 311 212 312 213 313 214 314 215 315 216 316 318 320 322 324 7 1/16 3/32 202 203 204 304 205 305 206 306	209 309 409 210 310 410 211 311 411 212 312 412 213 313 413 214 314 414 215 315 415 216 316 416 318 418 320 420 322 422 324 424 TAE 1/16 3/32 18 PAR: 202 203 303 204 304 404 205 305 405 206 306 406	209 309 409 509 210 310 410 510 211 311 411 511 212 312 412 512 213 313 413 513 214 314 414 514 215 315 415 515 216 316 416 516 318 418 518 320 420 520 322 422 522 324 424 524 TABLE 1/16 3/32 1/8 5/32 PART NO 202 203 303 204 304 404 205 305 405 505 206 306 406 506	209 309 409 509 609 210 310 410 510 610 211 311 411 511 611 212 312 412 512 612 213 313 413 513 613 214 314 414 514 614 215 315 415 515 615 216 316 416 516 616 318 418 518 618 320 420 520 620 322 422 522 622 324 424 524 624 TABLE N 1/16 3/32 18 5/32 3/16 PART NUMB 202 203 303 204 304 404 205 305 405 505 206 306 406 506 606	209 309 409 509 609 709 210 310 410 510 610 710 211 311 411 511 611 711 212 312 412 512 612 712 213 313 413 513 613 713 214 314 414 514 614 714 215 315 415 515 615 715 216 316 416 516 616 716 318 418 518 618 718 320 420 520 620 720 322 422 522 622 722 324 424 524 624 724 728 TABLE Nº 3 716 3/32 1/8 5/32 3/16 7/32 PART NUMBERS 202 203 303 204 304 404	209 309 409 509 609 709 809 210 310 410 510 610 710 810 211 311 411 511 611 711 811 212 312 412 512 612 712 812 213 313 413 513 613 713 813 214 314 414 514 614 714 814 215 315 415 515 615 715 815 216 316 416 516 616 716 816 318 418 518 618 718 818 320 420 520 620 720 820 322 422 522 622 722 822 324 424 524 624 724 824 728 828 832 TABLE Nº 3 1/16 3/32 1/8 5/32 3/16 732 1/4 PART NUMBERS 202 203 303 204 304 404 205 305 405 505 206 306 406 506 606	209 309 409 509 609 709 809 1009 210 310 410 510 610 710 810 1010 211 311 411 511 611 711 811 1011 212 312 412 512 612 712 812 1012 213 313 413 513 613 713 813 1013 214 314 414 514 614 714 814 1014 215 315 415 515 615 715 815 1015 216 316 416 516 616 716 816 1016 318 418 518 618 718 818 1018 320 420 520 620 720 820 1020 322 422 522 622 722 822 1022 324 424 524 624 724 824 1024 728 828 1028 **TABLE Nº 3** **	210 310 410 510 610 710 810 1010 1210 211 311 411 511 611 711 811 1011 1211 212 312 412 512 612 712 812 1012 1212 213 313 413 513 613 713 813 1013 1213 214 314 414 514 614 714 814 1014 1214 215 315 415 515 615 715 815 1015 1215 216 316 416 516 616 716 816 1016 1216 318 418 518 618 718 818 1018 1218 320 420 520 620 720 820 1020 1220 322 422 522 622 722 822 1022 1222 324 424 524 624 724 824 1024 1224 728 828 1028 1228 832 1032 1232 TABLE Nº 3 V16 3/32 18 5/32 3/16 732 14 5/16 3/8 PART NUMBERS 202 203 303 204 304 404 205 305 405 505 206 306 406 506 606	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008	208 308 408 508 608 708 808 1008

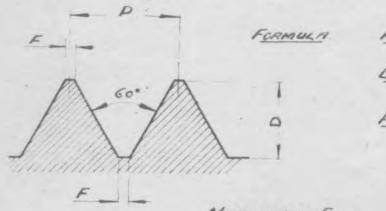
CHECKED WIS.

15501 NO

ADS 42B

THE DE HAVILLAND AIRCRAFT PTY. LTD. AUSTRALIA.

BASIC THREAD DIMENSIONS - AMERICAN NATIONAL FORM



P: PITCH: NO. OF THREAT-

D : DEPTH = PXO-64952

F . FLAT . 8

NATIONAL FINE

NATIONAL FINE CLASS 3 FIT

SCREWS

		MAJO	R DIAM	ETER	Piro	CN DIAM	ETER	Minos
SIZE	THREADS PER INCH		TOLERANCE	MINIMUM	BASIC MAXIMUM	TOLERANCE	Minneus	DIA
6	40	0.1380	0.0048	0.1332	0.1218	0.0017	0.1201	0.1073
8	36	0.1640	0.0050	0.1590	0.1460	0.0018	0 1442	0.1299
10	32	01900	0.0054	0.1846	0.1697	0.0019	0.1678	0.1517
12	28	0.2/60	0.0062	0.2098	0.1928	0 0022	0.1906	0.1722
1/4	28	0.2500	0.0062	0.2438	0.2268	0.0022	0.2246	0.2062
5/16	24	0.3125	0.0066	0.3059	0.2854	0.0024	0.2830	0.2614
3/8"	24	0.3750	0.0066	0.3684	03479	0.0024	0.3455	0.3239
7/16	20	0.4375	0.0072	0 4303	0.4050	0.0026	0.4024	0.3762
1/2"	20	0.5000	0.0072	0.4928	0.4675	0.0026	0.4649	0-4387
9/16	18	0.5625	0.0082	0.5543	0.5264	0.0030	0.5234	0.4943
5/8	18	0.6250	0.0082	0.6168	0.5889	0.0030	0.5859	0.5568
3/4	16	0.7500	0.0090	0.7410	0.7094	0.0032	0.7062	0.6733

NATIONAL FINE - CLASS 3 FIT.

CHECKED WH

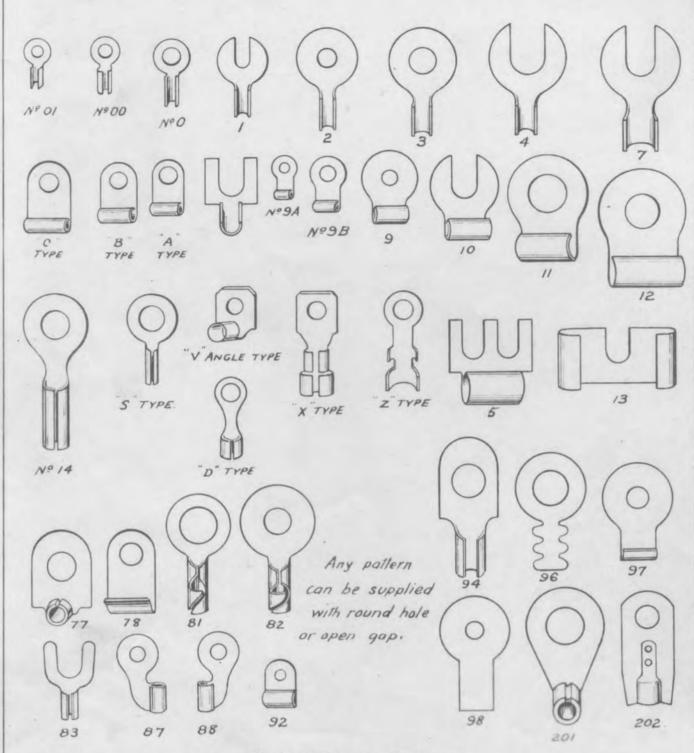
1354E NO

NUTS

CODICE FROM SHI IS

		MASOR	Pin	N DIAN	BETER	MINOS	DIAM	ETER
SIZE	THREAUS PER INCH		MINEMUN		MAXIMON	AUNIMON	TOL.	MAXIMA
6	40	0.1380	0.1218	0 0017	0.1235	0.1109	0.0070	01179
8	36	the second secon	0.1460			the Section of the last		
10	32	0-1900	0.1697	00019	01716	0.1562	0.0062	0.1624
12	28	0.2160	0.1928	0 0022	0.1950	0.1773	0.0062	0-1835
1/4	28		0.2268			-		-
5/16	24	0.3/25	0.2854	0.0024	0.2878	0.2674	0.0065	0.2739
3/8	24	0 3750	0.3479	0.0024	03503	0.3299	0.0065	0.3364
7/16"	20	0 4375	0.4050	0.0026	0.4076	03834	0.0072	08306
1/2"	20		0.4675	to the second second	4			+
9/16	18	0 5625	0.5264	0.0030	0.5239	0.5029	0.0076	0.5100
5/8	18	0 6250	0.5889	0.0030	0.5919	0.5649	0.0076	0.5725
3/4"	16	0.2500	0.7094	0.0032	0.7126	0.6823	0.0080	0.6903

THE DE HAVILLAND AIRCRAFT PTY. LTD. AUSTRALIA.



Illustrations are exact size.

SIZE OF . BOLT HOLE	3-76	3/6	1 50	or 3	3/6	3/6	376	1/4	14	30 Pub	1 4	y !	376	3/6	1 8	5	5	14	3/6		7	
TERMINAL	D		5		V	X	Z	77	78	81	82	83	87	88	92	94	96	97	98	20	702	202
DIAS OF FLEX	16	16	16	8	8	3	2	3	4	9	5 32	32	32	8	32	3	4	8	5 32	32	1	
SIZE OF BOLT HOLE	1"	5"	3	3.	4	1	5	5-16	4	5/6	4	32	3/6	3/6	4	5	5	4	4	3 16	of fee	
NUMBER	01	00	0	1	5	3	3	4	5	7	. 8	94	98	9	10	11	12	13	14	A	B	C

Date :	26	2	43
n-m			

Checked

Title:

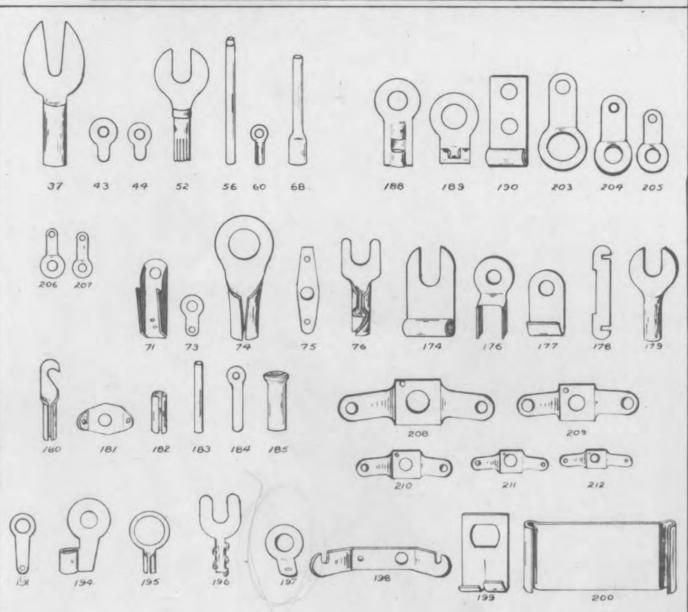
TINNED COPPER TERMINALS

AUS 44A

Issue Nº 1

river !

THE DE HAVILLAND AIRCFAFT PTYLTO, AUSTRALIA.

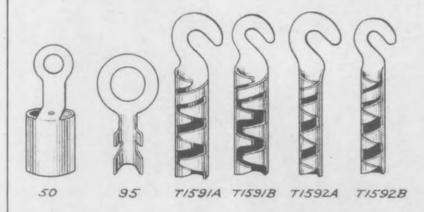


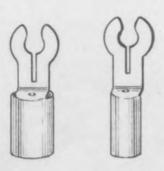
Terminal Nº	37	37A	43	44	52	56	60	68	71	73	74	75	76	174	176	177	178	179	180	181	182	/83	184
Size of Boli Hole	3	76	8	18	3,6	-	32	-	6	18	4	8	76	4	36	3		3/6	8"	18	-	-	16
UM of Flex	30	3,6	-	-	32	16	16	16	-	-	3°	-	32	84	4.59.	-	-	18	16	16	32	16	-

Terminol Nº	185	188	/89	190	191	194	195	196	197	/96	/99	200	203	204	205	206	207	208	209	210	211	211
Size of Bolt Hole	-	76	治.	76	18"	36	36	32	76.	18	5,6"	-	4"	3/6	32	18	32	4	36	32	18	3
Dia of Fres	5	32	32	32	-	6	16	8"	36	18	32 : 32	18	5'	18	32	16"	32	32	32	32	16	3

Dole: 25 2 93	TITLE TAG TERMINALS	ADS 44B.
Drawn & A Badman		AUS 44D.
Checked Hartconiery	Issue 1	Copied Ross. From - COURT NEY CO

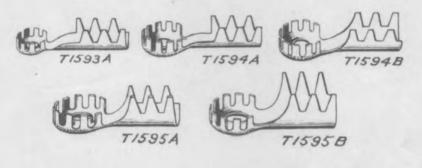
THE DE HAVILLAND AIRCRAFT PTY LTD. AUSTRALIA.

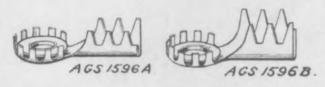




HIGH TENSION

LOW TENSION To suit 3 or 5 % Bolt To suit 3 or 5 % Bolt. " 5 or 8 / Flex. . . 3 or 5 / Flex





TEMINAL NO	50	95	T1591A	T1591B	T1592A	T/5928	T1593A	T/594A	7/5948	T/595A	T/595B	AGS/596A	AGS 15968
SIZE OF BOLT HOLE	3"	378	3"	5"	3"	5"	<u>/"</u>	5"	5 ° 32	3"	3.	4"	4
DIAS. OF FLEX	12 1/2	3" 16	5"	5.	3"	3"	5	5° 32	7"	7 "	5 16	3"	5"

Date: 26:2.43	Title	100 110
Drawn: S.L.	WIRE END BRASS TERMINALS	ADS. 44C.
Checked ork.	Issue Nº 1.	Gopied : Ross Courtney From. Colotogue

THE DE HAVILLAND AIRCRAFT PTY. LTD. AUSTRALIA



Nº WE 511 With double gap



Nº WE. 5/2 With Lip.



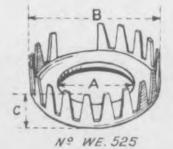
Nº WE. 5/5



Nº WE. 5/6













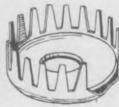












NºS WE 509

WE 507

503 500

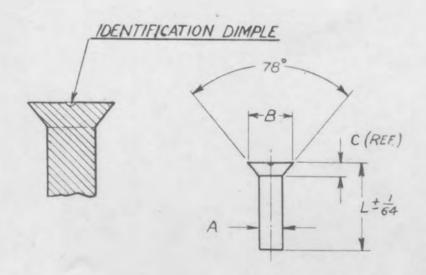
531

WE. 520

IN BRASS, COMPLETE WITH LOOSE WASHER

Part Nº	A Water	B Outside Dia	C Depth	Part Nº	A	B	C
	Clearing Hole				Clearing Hole	Outside Dia.	Depth
WE 490	5 B.A 8	32"	9"	WE. 521	8	1-3" 16 1-13"	9"
WE 491	4 B A	8 MM OR 16"	32"	WE 522	2"	32	32
WE 500	8"	32"	5 " 32	WE 523	5 "	1-3	32 "
WE 501	4 B.A.	32"	5 " 32	WE 524	5 "	1=5"	2"
WE.502	4 M/M	32"	<u>5</u> "	WE.525	3 "	1-5"	2"
WE. 503	35 OR 4 B.A.	13" 32	3 "	WE 526	5 "	32"	19 "
WE.504	64 OR 3 B.A.	32 "	76	WE 527	3"	1-25 "	32 5"
WE 505	3 OR 2 B. A.	13 " 32	3 "	WE. 528	1"	1-25 32	8
WE 506	0 B.A	13 32	3" 16" 316"	WE 529	\$ "	1-25"	25 " 32
WE 507	3" OR 2B.A.	2"	3 "	WE 530	5 " OR 4 BA.	76"	32"
WE 508	3" OR 2 B.A.	5 1	3/6	WE 53/	5 OR 4 B.A	2"	4"
WE 509	4" OR O B.A.	3 "	3 "	WE.532	3 " OR 2 B.A.	2"	4"
WE.510	1 B.A.	\$ "	3 "	WE. 533	32 OR 18A	2"	4"
WE.511	& with double gap.	5."	3 16	WE. 534	4" OR O B.A.	2"	4"
WE 512	3" with lip	\$ "	76	WE 535	3 OR 2 B.A.	19 ° 32	3 "
WE 5/3	\$ with lip	5 "	3"	WE 536	4" OR O BA	1/6 "	76
WE.514	5" hole	5 "	3"	WE . 537	3" OR 2 8.A	16"	5"
WE.515	5"	13 "	32"	WE. 538	5"	3 "	13 "
WE. 5/6	3"	13 " 16	32"	WE 539	4"	3 "	32"
WE 517	7/6	13 "	9 "	WE 540	38"	3 "	13 " 32 "
WE. 518	2"	7/8	5"	WE. 541	7 "	3"	32 "
WE.519	2"	1-3 "	9"	WE 542	5 "	29"	2"
WE. 520	3 "	1-3 "	9 "	WE. 543	3 "	29 " 32	2"

Date: 25-2-43.	Title	100 110	
Drawn: M.H.	ROSS COURTNEY TERMINALS	AUS 44U.	
Checked: All	Issue No. 1	Copied ROSS COURTNEY From & CO LTD.	



DASH Nº	NOMINAL DIA.	A	В	c
-2	16	·066 ·059	.123	.031
- 3	3 32	.098	·180 ·160	.047
-4	8	· /30 · /2/	· 236 · 213	.062
-5	<u>5</u> 32	·161 ·152	·292 ·272	.078
-6	3/6	· /93 · /82	·350 ·330	.094
-7	$\frac{7}{32}$.225	· 406 · 386	.109
-8	4	.258	462	.125

CODE: DIA. TO BE CALLED UP IN 32 NDS & LENGTH IN 16 THS

THUS B 183-4-6 IS C'SK HEAD ALUM ALLOY RIVET

- 8 DIA 8 LONG

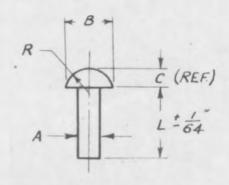
U.S. ARMY A.C. STANDARD AN 425 AD CONFORMS TO

THE REQUIREMENTS OF THIS STANDARD

RIVETS ARE TO BE MANUFACTURED TO SPEC.

CA-216

DATE: 25-2-43	TITLE RIVET B-183	ADS. 47.
DRAWN: MS	ALUM. ALLOY C'SK HEAD	AUJ. TI.
CHECKED:	ISSUE NO 1	FROM . C. A.C. SHT.



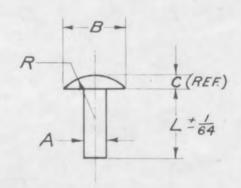
DASH	NOM/NAL SIZE	Α	В	C	R
-2	1/6	.066	·/37 ·//3	.047	.065
- 3	3/32	·098 ·091	.205	.070	-098
-4	8	·130 ·121	·275 ·225	.094	-130
-5	5 32	·161 ·152	· 343 · 281	-117	.163
-6	3/6	·/93 ·/82	·4/2 •338	.140	.195
-7	$\frac{7}{32}$	·225 ·214	·480 ·394	.164	.228
-8	4	·258 ·244	·550 ·450	•/88	-260

CODE: DIA. TO BE CALLED UP IN \$\frac{1}{32}\frac{\text{NOS}}{8} LENGTHS IN \$\frac{1}{6}\frac{\text{THS}}{16}\$

THUS B-187-4-6 IS ROUND HEAD ALUM RIVET

\$\frac{1}{8} DIA. \frac{3}{8} LONG.

DATE: 25.2.43	TITLE: RIVET B-187	10018
DRAWN: M.S.	ALUM. ROUND HEAD	ADS 48.
CHECKED: and.	155UE NO 1	FROM : C.A.C. SHEET

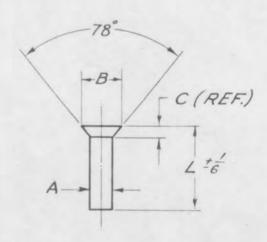


DASH	NOMINAL DIA.	A	В	C	D
-2	1/16	·066 ·059	·171 ·155	.031	.//3
-3	3/32	.098	·258 ·234	.047	-170
-4	1/8	·130 ·121	·343 ·3//	.062	.226
-5	5/32	.161	·430 ·390	.078	.282
-6	3/16	·193 ·182	·5/4 ·468	.094	340
-7	7/32	·225 ·214	·60/ ·54/	-109	.396
-8	1/4	.258	·687 ·623	.125	.454

CODE: DIA. TO BE CALLED UP IN \$\frac{1}{32}\frac{Nos}{2}\& LENGTH IN \$\frac{1}{16}\frac{\tau h}{2}\frac{\tau h}{2}\frac{Nos}{2}\& LENGTH IN \$\frac{1}{16}\frac{\tau h}{2}\frac{\tau h}{2}\frac

MATERIAL : ALUMINIUM.

Date: 27 2 43	Title	RIVET. B-188	10010
Drown: SL		ALUM. BRAZIER HEAD.	ADS 49.
Checked Of	Issue N	19.1.	Copied :- C.A C. Shee



DASH Nº	NOMINAL DIA.	A	В	C
-2	1/16	·066 ·059	124	.031
-3	3/32	.098	·187 ·167	.047
-4	1/8	·130 ·121	·248 ·228	.062
-5	5/32	·/6/ ·/52	·3/0 ·290	.078
-6	3/16	·/93 ·/82	·374 ·354	.094
-7'	7/32	·225 ·214	·435 ·415	109
-8	1/4	·258 ·244	·497 ·477	125

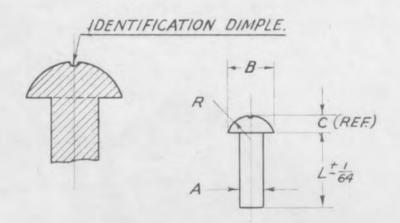
CODE: DIA. TO BE CALLED UP IN \$\frac{1}{32}^{\text{NOS}} & LENGTHS IN \$\frac{1}{16}^{\text{THS}}\$

THUS B 189-4-6 IS C'SK HEAD ALUM. RIVET.

\$\frac{1}{8} \text{DIA.} \frac{3}{8} \text{LONG.}

MATERIAL: ALUMINIUM.

Date: 28 2-43	Title:	RIVET.	B-189	100 50
Drawn: SA		ALUM. C'S	K. HEAD	ADS 50.
Checked: Ih.	Issue Nº 1.		,	· Copied:- C.A.C. She



DASH Nº	NOMINAL	A	В	С	R
-2	1/16	·066 ·059	·/37 ·//3	.047	.065
-3	3/32	·098 ·091	·205 ·/69	.070	.098
-4	1/8	·130 ·121	·275 ·225	.094	./30
-5	5/32	·161 ·152	·343 ·281	.//7	./63
-6	3/16	·/93 ·/82	·4/2 ·338	.140	195
-7	7/32	.225	·480 ·394	.164	.228
-8	1/4	·258 ·244	·550 ·450	.188	.260

CODE: DIA TO BE CALLED UP IN \$\frac{1}{32}^{NOS} & LENGTH IN \$\frac{1}{16}^{TMS}\$.

THUS: \$B \ 181-4-6 \ IS ALUM. ALLOY ROUND HEAD

RIVET \$\frac{1}{8} DIA \$\frac{3}{8} LONG.\$

U.S. ARMY AC STANDARD AN - 430-AD CONFORMS

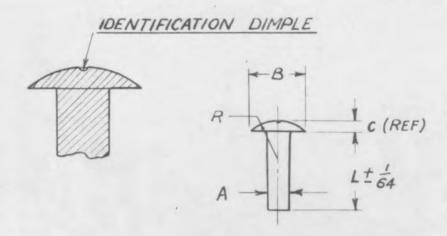
TO THE REQUIREMENTS OF THIS STANDARD.

RIVETS ARE TO BE MANUFACTURED TO SPEC.

CA 216.

MATERIAL : ALUM. ALLOY. SPEC. CA. 216.

Date: 23 - 2 - 43	Title: RIVET B-181	100 51
Drawn: S.L.	ALUM. ALLOY ROUND HEAD.	A.D.S. 51.
Checked: OR	Issue Nº 1.	Copied - C.A.C. Sheet.



DASH No.	NOMINAL SIZE	A	В	C	R
-2	1/6	·066 ·059	·164 ·148	.031	.113
- 3	3 32	·098 ·091	·245 ·225	.047	.170
-4	8	·130 ·121	·322 ·302	.062	-226
-5	<u>5</u> 32	·161 ·152	·407 ·375	.078	•282
-6	3/6	·193 ·182	·484 ·452	.094	.340
-7	7 3 2	·225 ·214	·572 ·522	.109	.396
-8	4	·258 ·244	·650 ·600	.125	.454

CODE: DIA. TO BE CALLED UP IN 12 NOS LENGTH IN 16 THS

THUS B 182-4-6 IS BRAZIER HEAD ALUM ALLOY

RIVET 8 DIA. 8 LONG.

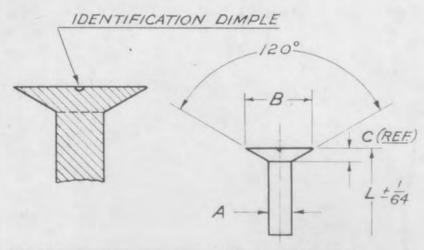
U.S. ARMY AC STANDARD AN- 455-AD CONFORMS

TO THE REQUIREMENTS OF THIS STANDARD

RIVETS ARE TO BE MANUFACTURED TO SPEC.

CA- 216.

DATE: 25.2.43	TITLE: RIVET - B-182	ADS 52
DRAWN : MS	ALUM ALLOY BRAZIER BAR	ND.S. 52.
CHECKED. DW.	ISSUE NO. 1	FROM C.A.C. SHT.



DASH Nº	NOMINAL DIA.	A	B ± .005	C
-2	1/6	·066 ·059	.125	.018
-3	3/32	.098	./87	.027
-4	1/8	130	.25	036
-5	5/32	·161 ·152	.3/2	.045
-6	3/16	193	.375	.054
-7	7/32	·225 ·214	.437	.063
-8	1/4	·258 ·244	.50	.072

CODE:

DIA. TO BE CALLED UP IN \$\frac{1}{32}\cdot \text{LENGTH IN } \frac{1}{16}\cdot \text{THS}}{\text{THUS B191-4-6 15 120° C'SK HEAD ALUM ALLOY.}}

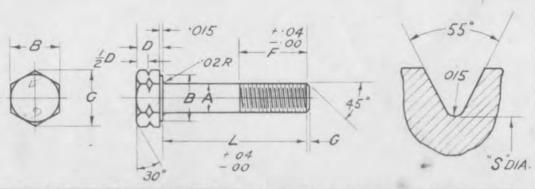
RIVET \$\frac{1}{8}\text{DIA.} \frac{3}{8}\text{LONG.}

MATERIAL:

ALUM. ALLOY.

TO BE MANUFACTURED TO SPEC. CA.-216

Date: 25 - 2 - 43	Title: RIVET. B 191.	A DC 57		
Drown: S.L.	ALUM. ALLOY 120° C'SK. HEAD.	A.D.S. 53		
Checked: Of	Issue Nº 1.	Capied - C.A.C. Sheet		



CODE SIZE A.		A.	TOLERANCE ON DIA: OF SHANK	WIDTH ACROSS FLATS		ACROSS THICKNESS		CHAM	The second second	DIA.	*F	TENSILE STRENGH LBS.	
				MIN	MAX	APPROX	MIN.	MAX.	MIN.	MAX.			
-B	48A	142	+ .0000	.245	.248	290	100	106	.020	.030	.25	.30	1180
-C	28A	185	+.00	.321	.324	.37	132	139	.030	.040	.328	40	2080
-E	\$BSF	25	- 0035	.440	445	-51	-18	19	.030	.040	45	.50	3,900
-G	5 8.S.F	-3/25	- 0035	.520	.525	.61	.21	22	.030	.040	.53	.55	6250
-J	3BSF	375	+ .00	.595	.600	.69	.26	.27	.030	.040	.61	.60	9350
-7	76BSF	4375	0040	.705	.710	.82	.32	.33	.040	.050	.72	.70	13000
-N	&BSF	.5	+ .00	-815	.820	.95	.37	.38	040	.050	.83	.80	17050
-P	9BSF	-5625	+:00	915	.920	.106	.43	.44	.040	.050	.94	.90	22500
-Q	5 BSF	.625	+.00	1.002	1.010	1.17	-48	.49	.050	.060	1.03	1.00	27,500
-5	3 8SF	.75	+ .00	1.192	1.200	1.39	.59	.60	.065	.075	1.23	1.20	40,000
-0	7. BSF	.875	+ . 00	1.292	1.300	1.50	.65	.66	065	.075	1.33	1.40	55,600
W	1BSF	1.0	0080	1.468	1.480	1.71	.76	.77	.065	.075	1.53	1.50	73,500

ON BOLTS HAVING A SHANK LENGTH OF . 5 AND LESS THE THREAD LENGTH F

IS NOT GREATER THAN 0.15"

LENGTH MAY VARY BY to (OR 0.1)

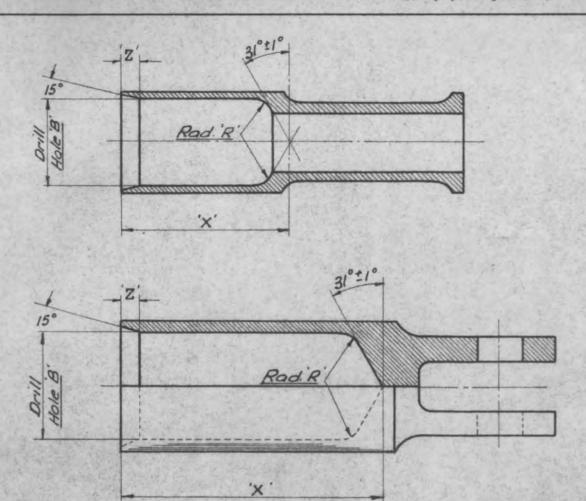
CODE: B201 - C16- = 2BA BOLT x 1.6 INS. LONG.

8-201- J32 = 3 B.S.F. x 3.2 LONG.

FINISH: CADMIUM PLATE FS-10

MATERIAL : H.S. STEEL . SPEC. CA 107-4.

54.
1



DRILL HOLE B'-	RADIUS 'R'
1/4 dia	.05"
5/6 .	,,
3/8"	.08"
7/6 "	,
1/4 dia 5/6 " 7/6 " 9/6 " 5/8 " 1/16 " 1/3" 1/4 " 1/4 " 1/5 " 1/6 " 1/8 "	-10"
9/6 "	
58 .	"
11/16 "	.15"
3,4 "	4.
13,6 "	"
15/16 to 13/16 "	-20"
15/16 to 13/16 "	.25"
2 dia upwards	-38"

NOTE

Depth of holes governed by dimension X' and chamfered by dimension Z'.

REDRAWN LS	STAND	10067	
CHECKED HMOM	HOLES	FOR PLUG ENDS	ADS.57.
DATE 14.7.43	ISSUE	1	

Break	MAXIMUM MAN-BREA THICKNESS DRELS BREA RIVETED Metal Nicke			EM (B			BRE	IUM All					Mil	d Stee	SH(P
Pivets Head Head - Domi		Dome TNC/D	Csk.	Dome	CSK.		Dome TAC/D		Dome TAPID	Csk	Capped Cup TAS		CUP Dome TMC/D		PO. Don TMP.
		7 "d									77.0		72		-
"			umere				-		-		-	-			-
.03"	300	3/4	214	3/3	2.0	-	-		-		-	-	-	-	1
.05	165.	200	314	-	3/3		-			-					
.07	failing	320	320	3/9	3/9	-	-	1.0	-	-	-		-		
.09"	load		320	-	3/3										-
		1" di	amen	er											
.03"	420	414		413		220	415	-	414	-	414				
.05	165.	417	414	4/6	4/3	165	418	-	417	-	417	300	4/4	240	4
.06"	failing	_	-	-	-	failing	-	415		414	_	1bs	-	Ibs	-
-07	load	420	417	4/9	416	load.	421	418	420	4/7	420	failing	417	Shear	4
.09	77	-	420	_	4/9	11	-	_	-		_	load	-	load	-
.10	11	423	-	422	-	11	424	421	423	420	423	//	420	11	4
.12"	11	925	423	424	422	11		-	_	_	_	11	_	11	-
•13 "	"	-	-	_	-	"	-	424	_	423	_	"	423	100	4
.14	11	-	425	-	424	"	-	_	-	-	-	11	_	0	-
-15"	"	-	_	-		"	-	-	_	-	-	n	425	11	40
./7"	"	430	-	429	-	11:	430	-	429	-	429	11	-		-
-19 "	"	-	430	-	429	11	-	_	-		_	11	-		-
.20	11					11	-	430	-	429		11	430		4
		5" di													
		32 0	amet	er											
-03"	560	516	-	515	-										
. 05"	165.	-	5/6	-	5/5							360	516	320	51
. 06"	failing	520	-	519	-	3/0	5/9	-	518	-	5/8	165	-	165	-
- 08"	load		520	-	519	165	-	-	-	-	-	failing	519	Shear	5
.10"	20	-	- 1	-	-	failing	-	5/9	-	518	-	load	-	load	-
. 11"	. "	-	-	-	-	load	524	-	523	-	523	**	522	+1	52
.12	n	.525	-	524	-	11	-	-	-	-	_	11	-	9/	-
. 14	.44	-	525	-	524	77	-	-	-	-	-	4	525	11	52
-15"	to the	528	-	527		ii	-	524	-	523	-	**	-	11	-
17 "	h	-	-	-	-	w	530	-	529	_	-	14	528	77	52
.18"		531	528	530	527	. II	-	-	-	-	-		531	0	53
-21"	16	-	531	-	530	"	-	530	-	529		NO	TES		
-23"	"	538	-	537	-	- 6.	538	-	537	-	COL				
- 1	11	-	538	-	537	n	-	-	-	-		A Indi			
.27"						11	-	538	77	537		"M" "	Mild	Steel	
		3"	ame	ter			·2"d	iamet	er.						
				-	-							"0 -			
-07	100		-	-	-			-	-	_		K			Hera
-	1	-	622	624			-	-	7	-	-				47
-					-	-		622	-	02/					
-		628	623	627	624		-	-		-	SA	em and	PITA	or Pull	
1	-	-	-	-	-	-			629	-					
		1		630	-		-	-	-					-	
-	-	-		-	-			626	-	625	4=	8 5=3	5 6	3 8=	4"
.18	"	634	63/			"		-	-	-	The	e length	s are g	iven in	
	-	-		-	-				-	029					71.0
and the same of	-	-			-	-	036				100				
-						-	041	-							
.23"	"		-			-	-		54 V						
.24"	11	-	637	-	636			-	-	-					
.25	37	-	-	-	620	.0.	-	036		635					
.26	- 11	-	640	-	039		-	-		-		*			
.28	11		-			750	-	641	0.10	640					
.33				-		530	000	650	049	540					
· 20			77.1	FIE -	24.5		0.5						-		-
·38"			4 / 1 /	total . A	111	1 U D	V 1 (2)	13/11/	- 16	-					
	2.H		-	1410	20 00	a P	CNOT				0 /	1.0.5	5. 5	8	
			57	ANDA	RD 512	ES, STR	ENGTH				2	1.D.S		8	
在我的我们 有有不可以 有人的 有人的	15" 17" 18" 23" 25" 27" 07" 10" 13" 14" 15" 16" 18" 20" 24" 25" 26" 28" 33"	15" " 17" " 18" " 21" " 23" " 25" " 27" " 07" 940 10" 165. 12" failing 13" 10ad 14" " 15" " 16" " 18" " 20" " 21" " 23" " 24" " 25" " 24" " 25" " 33" " 38" "	15" " 528 17" " - 18" " 531 21" " - 23" " 538 25" " - 27" " 3"/6 d 07" 940 622 10" 165. 625 12" failing - 13" 10ad 628 14" " - 15" " 631 16" " - 20" " - 21" " 637 23" " 640 24" " - 25" " - 26" " - 28" " - 28" " -	15" " 528 — 17" " — — 18" " 531 528 21" " — 531 23" " 538 — 25" " — 538 27" " 3" diame. 27" " 3" diame. 27" " 3" diame. 27" " 3" diame. 27" " 625 622 12" farling — — 13" load 628 625 14" " — — 628 18" " 634 631 19" " — — — 20" " — — — 21" " 637 634 23" " 640 — 24" " — 637 25" " — 640 28" " — 640 28" " — 640	15" " 528 — 527 17" " 18" " 531 528 530 21" " - 538 — 537 23" " 538 — 537 25" " - 538 — 27" " " 3" diameter. 07" 940 622 — 621 10" 165. 625 622 624 12" failing — 13" load 628 625 627 14" " 15" " 631 — 630 16" " - 628 — 18" " 634 631 633 19" " 20" " 21" " 637 634 636 23" " 640 — 639 24" " - 640 — 28" " - 640 —	15"	15" " 528 - 527 - " 17" " " 18" " 531 528 530 527 " 21" " - 531 - 530 " 23" " 538 - 537 - " 25" " - 538 - 537 " 27" " " " 3" diameter. 07" 940 622 - 621 - 450 10" 165 625 622 624 621 165 12" failing failing 13" load 628 625 627 624 load 14" " " 15" " 631 - 630 - " 16" " - 628 - 627 " 18" " 634 631 633 630 " 19" " 400 21" " 637 634 636 633 " 23" " 640 - 639 - 380 24" " - 637 - 636 " 25" " " 26" " - 640 - 639 " 28" " - 640 - 639 " 350 38" " 350	15" " 528 - 527 - " - 530 18" " 531 528 530 527 " - 21" " - 531 - 530 1 - 23" " 538 - 537 - " 538 25" " - 27" " 1 - 23	15" " 528 - 527 - " - 530 - 18" " 531 528 530 527 " 530 23" " 538 - 537 - " 538 - 537 27" " - 538 - 537 " -	15"	15"	15"	15"	15"	15"

CODE FOR DIAMETER

 $K - \frac{1}{8}^{"}$ $L - \frac{5}{32}^{"}$ $X - \frac{3}{16}^{"}$ $Z - \frac{1}{4}^{"}$

CODE FOR HEAD

C - Countersunk S - Snap Head

CODE FOR LENGTH

By numbers, each of which denotes the length under head in sixteenths of an inch.

CODE FOR MATERIAL

D - Dural (L37)
M - MG5 (DTD303)
NA-16ST (DTD327)
S- Steel

EXAMPLE - TK3CD

T	K	3	C	D
Taper Bore	# Dia.	3"Long	Countersunk	Dural

Similarly the Code used for Sealing Pins, is, for example:
K3PD = Pins for TK3CD or TK3SD Rivets.

CODE FOR DURAL RIVETS

Countersunk Head	Snap Head	Rivet length under Head	Thickness able to join	S.W.G. Combinations able to join.
TK } 2CD	TK 25D	\$" (·125")	from •025 to •056	from 30 + 30 to 22 + 22
TK 3CD	TK 3SD	3" (-188")	from -044 to -108	from 24 + 24 to 20 + 20 + 20
${TK \choose TL} 4CD$	$TK \atop TL$ 4SD	4 ["] (·250")	from •108 to •172	from 20 + 20 + 20 to 18 + 18 + 18 + 22
${TK \atop TL}$ $5CD$	TK 5SD	5" (-3/3")	from -172 to -240	from 16 + 16 + 18 to 14 + 14 + 14

Rivets in other sizes & for special purposes can be supplied on request.

DRAWN M.H.	TITLE TABLE OF SIZES & CODING OF	4 - 0 - 0
CHECKED M.E.	"CHOBERT" RIVETS. NEW TYPE TAPER BORE. (Ratented)	A.D.S. 59
DATE 17-8-43	ISSUE. 1	Copied from "Chobert" Catalogue.

1		n.am.					- 1	-			11					0055	-
		PART A.	Vº PREF		MATE				FICAT	YON	STE	EL N	UTS.		A 16Y		X
			5 Y 15 Z		GH TEN		STEEL S		OR D.7	0.153				1	A 162	2	57
		A./	+ .0	4"	1//1/2/200	OILE	_	D.,	00	7	UEVACON	-	+	F		-	0
		"D"	- O		"F"	"G"		B"		7	HEXAGON	30		3	2	30	1XA
			R"					4	-		SIZES	1	7	1 7	7		A
		1				My	1	1		120	FOR ALL	1	1	1	1		1
		1				45	0	1	0		NUTS	1	4	1	1		1
		9/3	5°			17	5/11	2 "	1	1 2.0	ARE	_	7	1	1		7
		30-11-	B.A.	4 B.A	B.A	B.S.F.	5/16 B.S.F.	3/8" B.S.F.	7/16 B.S.F	8.S.F.		1 %	0	3	0	-	30
	TOLERANCE	AI		+0003"			+0003	5"	+	004"	SAME AS	3	0				
	DIAMETER	110	*/90"	.245	-:0	905"	.520"	-595"	.705	0005" 8/5°	FOR	PLAIN	NUTS	THIN	NUTS	SLO	TTEL
		B	193"	.248"	·324"	·445"	·525	·600"	-710	-820	BOLTS.	PART N	- 1	PART N		PT Nº	7
		D	.063" .068"	.080.	106"	./4"	17"	·2/" ·22"	·26" ·27"	·29" ·30"	001	R.H. L.	-100	AT AT	-, -063	1	
		F	.3"	.35"	-4"	*45"	.5_	.6.	.65"	-7"	6.B.A	BP BF	1 .110	-	. 085		
		G	-020	1020		.03	0		.0	40" 50"	48A		175		11/2"	00	-240"
		PLAIN		02"	PA	RT I	VUMB	7			28A	EP EP	, -190	ET ET	1/23	CS	·250"
		LENGTH	140	18	10	1E	16				14 B.S.F.		-240	7 07 0	1/55	ES	·260°
		*3"	3A	38	30	2 E	2G 3G	2J 3J	34		% B.S.F.		-250	01 01	198	GS JS	·280
		-4"	4 A	48	40	4E	46	40	44		1/8 B.S.F.	The second second	-312	01 01	POOL		·312"
		.6"	5A 6A	5B 6B	5.C	5 E	5G 6G	5J	5L 6L	5N	/16 B.S.F.	-	-427	41 41	-28/	2	·375
		.7"	7.A	78	7C	7E	76	70	74	7N	2 B.S.F.	NP NA	-437		7 .29/	NS	437
		9"	9A	98	90	8E 9E	96	8J 9J	94	8 N						-14	"p"
		1-0"	10A	108	100	IOE	106	103	101	10 N				1	13		0
		1.1"	11A 12A	118	110	11 E	11G 12G	115	117	11 N	T	П	A.	-			/
		1.3"	13 A	138	130	13E	136	133	134	13 N			1	1			1
		1.5	14A 15A	14B 15B	14 C	19E	14 G	150	14L 15L	14 N	10		1	1	0		
*		1.6	16 A	16 B	16 C	16 E	16 G	161.	16L	16 N			1	1			1
		1.8	18A	188	18 C	18E	18 G	185	18L	18N		"B"					1
		2.0	19A 20A	198.	19 C	19 E	19 G 20 G	195	196	19 N 20 N			-				
		5.1	2/A	2/8	2/0	2/E	2/6	211	217	2/1/			ATERI				M
		2.3	22A 23A	22B 23B	230	22E	23E	237	237	23 N	-	MILO ST.		S.21 L-S.80 OR	270. 5	TAINLE	ESS ST
		2.4	244	248	240	24E	24G	241	244	24N			0200	WASHER		VASH	10000
		2.6	25 A	258 268	25 C	25 E	25G 26G	25J 26J	254	25N	BOLT	PART		A B			UMBI
		2.7	27A	27B 28B	27C 28C	27E 28E	27 G 28 G	27 J 28 J	27 4	27N 28N	SIZE	MILD S	TAINLESS	+ 02 + 005		D 57	TEEL
		5.9		298	290	29 E	. 29G	29J	294	29 N	6-B.A.	A.G.S. 1	4.G.S.	12 .05	3 16	5.5 A	.G.S. 47/A
		3.0		30B 31B	30C	30 E	30G	301	30L	30N	4.8.A.		4.G.S. 946/8	15 05	4" A.C	1/8 9	G.S.
		3.2		328	32C	32E	326	321	324	32N	2.B.A	A.G.S. 1	100	19 05	5" A.C	2.5. A	G.5
		3.3		33 B 34 B	33C 34C	33 E 34 E	33 G 34 G	33J 34J	33L 34L	33N 34N	1/4" B.S.F.	A.G.S.	400	26 -05	. A.C	3.S. A	47/D
		3.5		358	35C	35E	35 G	351	354	35N	5/6 B.S.F.	A.C.S. 1	4.G.S. 946/E	-32 .065	7 A.C	.S. A.	C.S.
		3.6		36B 37B	36 C	36E 37E	36 G	36J	364	36N 37N	3/8 B.S.F.	A.G.S	100	38 -065	.0° A.C	2.5. A.	G.S. 47/F
		3.8		38B 39B	38 C	38E 39E	38G 39G	38J 39J	384	38N 39N	7/6B.S.F.	A.G.S. ,	ACC	44 .065		.S. A.	GS. 97/G
		4.0		408	40C	40E	40 G	400	401	40N	1/2 B.S.F.	A.G.S.	A.G.S. 946/H	-57 -065	1.15 A.G	S. A.	GS. 47/H
		4-1		428	41C 42C	41E 42E	41 G 42 G	410	41L 42L	41N 42N		1/60/11	070/11		1/0	70.10	-
		4.3		438	43C	43E	43G	430	434	43N	METHO	D OF	(A.I.	VA-16	Y.VA.	G.S.	A.G.
		4.4		448	44C 45C	44E 45E	44G 45G	44U 45U	44L 45L	44N 45N			25.6	E.S	160	0/0/	162
		4.6	1	46B	46C	46 E	46G	461	46L	46N	CALLING		~				_
		4.7	100	47B 48B	47C	47E 48E	47 G 48 G	470	47L 48L	47N 48N	ON DRA	1 1	MS. BO		_	SHER	SPRII
		4.9		49 B	49 C	49 E	498	490	49L	49N			4 8.5.	F. NUT			WASH
		5.0		508	50C	50E	508	50 J	50L	50 N		Hird	.4.	HEXA	AGON	1 H	EAD
1	-	5.2		52B 53B	52C 53C	52E 53E	52 B 53 B	52J	52L 53L	52N 53N	CHEC	- Alice	-				
	1	5.4		338	330	54 E	338	330	54L	54N	DATI	E 2/12	2/43	THE DE	E HAI	ILL	AND
						100							-	1			

MATERIAL SPECI MILD STEEL ED NUTS CASTLE N PT Nº K .08 -09 ·190° -09 -09 .09 EC *240" *250 *302" *312" *365" *375 *427" *437" .09 GC .09 -09 ·09 JC .09 .14 125 LC 14" -125 NC -14"



9

SPR

SINGLE

FOR ST

FOR COUNTE

FOR SIZES

SPECIFICATIO

L - 5.21 DTD. STEEL-5.80 OR 146. L.38 (LARGE TYPE)

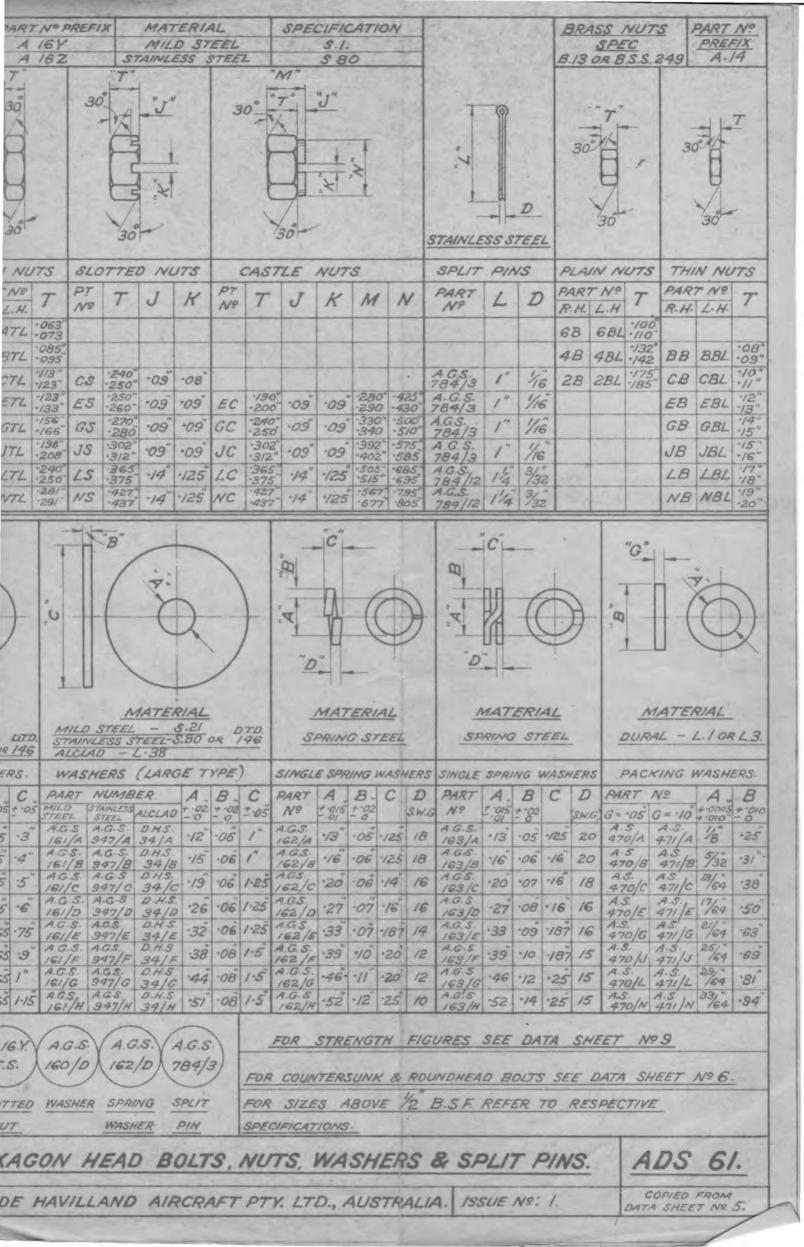
BOLT	PART Nº		A B (C	PART	PART NUMBER		A.	B .	C	PART	ı
IZE	MILD	STAINLESS	+ 02	+.005	+ .05	STEEL	STAINLESS STEEL	ALCLAD	+.02	20.4	±.05	No	7
B.A.	A.G.S. 160/A	A.G.S. 946/A	.12"	.05	.3"	A.G.S 161/A	A.G.S. 947/A	D.H.S.	.12"	.06	1"	A.G.S. 162/A	
1. B.A.	A.G.S. 160/8	AGS 946/8	.15	.05	.4"	A.G.S. 161/B	A.G.S. 947/B	D.H.S. 34/8	.15	-06	1"	A.G.S. 162/8	
B.A	A.G.S. 160/C	A.G.S. 946/C	19	.05	5		A.G.S 947/C	34/c	19	.06	1.25	162/C	
"B.S.F.	A.G.S. 160/D	A.G.S. 946/0	.26	-05	.6	A.G.S. 161/D	A.G.S 947/D	D.H.S. 34/D	.26	.06	1.25	A.G.S. 162/0	-
B.S.F.	A.C.S. 160/E	A.G.S. 946/E	-32	065	.75	A.G.S. 161/E	4.C.S. 947/E	D.H.S. 34/E	.32	.06	1.25	162/E	-
B.S.F.	A.G.S. 160/F	4.G.S. 946/F	38	-065	.9"	A.G.S. 161/F	A.G.S. 947/F	D.H.S 34/F		-08	-	A.G.S. 162 /F	ı
BSF	160/G	A.G.S 996/G	44	-065	1"	A.G.S. 161/G	A.G.S. 997/G	0.H.S 34/6	44	.08	1.5	A.G.S. 162/G	
B.S.F.	A.G.S. 160/H	A.G.S. 946/H	.51	.065	1.15	A.G.S/H	AGS. 947/H	D.H.S. 39/H	:51	.08	1.5	A.G.S 162/H	-

A.G.S. 784/3

ING SPLIT PIN

D BOLTS, NUTS, W

AIRCRAFT PTY. LTD.



IN CALLING UP POLYVINIL TUBÉ THE INSIDE DIA. IS GIVEN IN MILLIMETERS AND THE LENGTH REQUIRED IN INCHES.

INSIDE	F DIA.	WALL	No UN	ICEL8	Nº DU	ICELS
M/M	INCHES		4 _{AMP}	7AMP	4AMP	7AMP
1	039	*015"	_			
1/2	.059	"	_	_	_	_
2	-079	" "	-	-	-	
2/2	-098	"	-	-		
3	-118	.018"	_		-	_
3/2	1/38	"	-	-		-
4	.157	.020"	1	1	-	
5	.197	"	1	1	1	1
6	.236	.025"	2	1	1	1
7	.276	11	3	2	1	. /
8	-315	"	* 4	3*	2	1
9	.354	.030"	* 5	3	2	2
10	.394	11	5	4	3	2
12	.472	"	12	9	*6	5
14	.551	"	*/3	10*	6	6*
16	.630	'035"			.8	8*
17	.669	"				
18	.709	"				
20	.787	.040"	-			
22	.866	"				
3						
		1				
	1		1			
		-				
		1	-		-	-

* CABLES FAIRLY TIGHT FIT.

DATE	6-12-43		100 63
DRAWN S.L.		NYLEX POLYVINIL TUB	ING. ADS. 62
CHECKED		ISSUE Nº 1.	COPIED FROM

COMPARISON TABLE

BRITISH, AMERICAN & CONTINENTAL STANDARD SCREW THREADS.

GENERAL NOTES:

These thread comparison tables of British, American and Continental standard screw threads are based on diameter and threads per inch. The tables are thus intended for use when the diameter and threads per inch are known and it is desired to find the standard thread system (if any) to which the thread conforms. For details of the individual thread systems see the separate Design Sheets covering same.

The threads shown under the British Standard Whitworth column below in are the old Whitworth standard with the exception of 3/16" and 1/8" size (now included in the new British Standards). The particulars of these non-standard sizes are given because many of these small sizes are still in use.

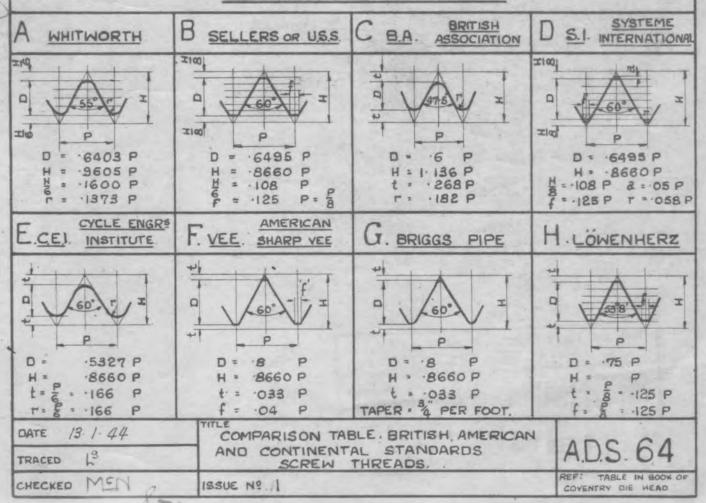
The columns covering U.S.S., S.A.R., and A.S.M.E. are the old standards of American threads, which are still used to some extent. The new American standards, American National Course (N.C.), American National Fine (N.F.), American National Extra Fine (N.E.F.), are American National Pitch Series.

The designating size numbers by which A.S.M.E, N.C., N.F., N.E.F. and B.A. threads are usually specified are given in two separate columns.

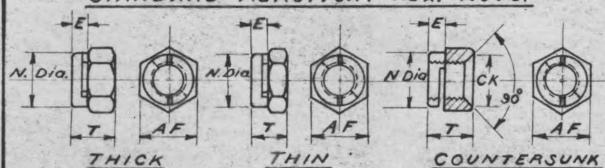
The diameters given for B.S.P. taper threads are gauge diameter for Class 1. Diameters given for B.S.P. Parallel Engineering threads are outside diameters for Class 2.

Form details of all the standard thread systems included in these tables are shown below:-

THREAD FORMS



STANDARD "AEROTIGHT" HEX. NUTS.



SIZE	BASIC	PAR	7 NO.	T	F	N	AF	CK
0/22	THICK	THEN	c/5x	1			2'-3	- in
	A.A.		A.C	.160	.055	180	-193"	.152
6 B.A		A.B		.123"	.055	.180	-193"	
	BA		B.C	208	.071	-235	-248	-196
4 B.A	11 9	88		161	-071	235	.248	
201	CA		CC	.272"	-092"	.3/1"	.324	-257
2 B.A		CB	- 10	210	.092	.311"	.324	
å B.S.F	EA		E.C	.310	115	.430	-445	352
40.3.5		EB		243"	-115"	430	-445	
S'B.S.F	GA		G.C	381"	.136"	.510"	.525	416
76 D.J.F	1	GB	10-0	-297	-136"	-510	-525	
1"B.S.F	JA		JC	-457	.150"	.585"	·600°	476
80.0.5		JB		.353	-150"	-585	.600	
76 B.S.F	LA		LC	-537	167	-695	.710	.564
		48		.412"	-167	·695°	.710	
±B.S.F	NA		NC	And in concession of the latest and the			.820"	
2 0.0.		NB		473	.187"	805	.820	

MATERIAL DESIGNATION NUMBERS "Aerotight Nuts can be supplied in the following materials, each material having a Part No. as indicated.

PART No.	MATERIALS	SPECIFICATION
1.	Mild Steel	Nuts 3.5.1 Cadmium Plated Plates 5,84 Cadmium Plated
2	Stainless	Nuts S.80 1 Groove in all Sizes
2.		Plotes S.85 or Monel D.T.D. 10 B All Sizes morked "Z"
7	Light	Nuts 5.L.1 Anodised
3.	Alloy	Plates 5.1.3 or D.T. D.292 Anodised
4	Brass	Nuts 3.8.6 or 3.8.13

To Call Up on Drawing: Aerotight Refers to 6 B.A. Thick

Drawn: ARth.	"AE	1 0 C 704						
Date: 24.5.44	NUTS & ANCHOR PLATES						A.D.S. 70	
Checked: MEN	Issue No.	1			2 10	II	Copied From Folds	

THE DE HAVILLAND AIRCRAFT PTY. LTO. AUSTRALIA DOUBLE ANCHOR PLATES FOR "AFROTIGHT" HEX. NUTS Dia. FDia. B THICK THIN BASIC PART NO. SIZE W B U 1 H THICK THIN .50" .68" .262" 198" .065 .028 A.D. 6BA .50" AE .161" .065 .028 68 -262" .317" .246" .70" .096" .94 80 .028" 4BA .70" BE -317" ./99" .94" .096 .028 CD .393" -3/0" .70" .94" .096 .028 2BA .248" 94" .393" CE 70" .028 .096 1.00" 028" ED 516" 348" .24 .096 1BSA .516" EE 1-24 .281" 1.00 .096 .028" .427" GD .612" 1.10" .096 .036 1.35 5 BSF .343" 1.10" .036 GE 1.35" .612" .096" 35" -687" 1.10" .503" JD .096 .036 BSF 1.10" .687" JE .036 1.35" .096 .399" 802" 1.60" .583" .036 1.25 128 TEB SF 1.25" .802" .128" 1-60" 458" LE .036 .75" .912" 1.40" .036 ND 128" .665" BSF -912" .519" NE 1.75 1.40 .128 .036 AEROTIGHT HEX. NUTS SINGLE ANCHOR PLATES FOR B -H- THIN F Dig. F Dig. W-THICK . BASIC PART NO. SIZE B F U H 4 W THICK THIN 198' 340 .262 -25 .065 .028 6BA .161" AG .340 .028 262' .25 .065 246 .028 BF 470 317 .35" .096" 4BA 317" 35 BG 028 470 199 096 CF .393 310" .028" 470 .35 096 2BA CG .35" 470 .393 .248 096 .028 EF .516 .348 .50" .028 .620 .096 4 B.S.F. EG 620 .516 .281 .096" .028 .50 GF 675 -612 .427 .55" -096 .036 B.S.F. 675 .55" .096' .036 GG 612" 343" .503" .55" 675 687 096 .036" B.S.F. .399" JG 687" .55" .036 096" 675 To Call Up on Drawing: See A.D.S. 70 A Drawn: Sill AEROTIGHT A.D.S.708 TS ANCHOR

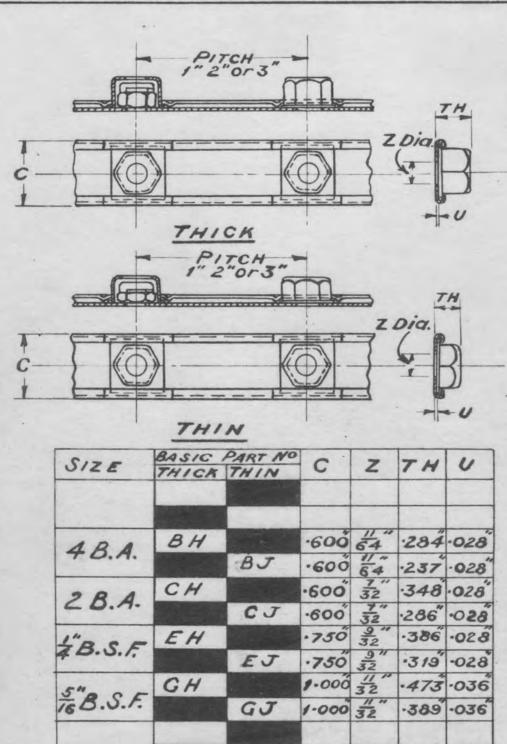
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Date: 29.5-44

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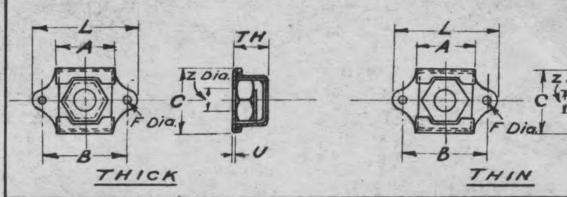
FLOATING STRIP WITH "AEROTIGHT" HEX. NUTS & HOUSING



To Call Up on Drawing: See A.D.S. 704.

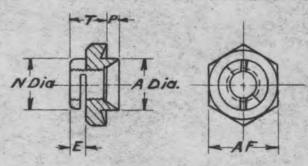
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FLOATING ANCHORS WITH "AEROTIGHT" HEX. NUTS & HOUSINGS



SIZE	BASIC	PART NO	-	7	TH	11	1	R	F	,
THICK	THICK	THIN	-		, ,,		7	0		-
			400	100	34			1	115.17	
4 B.A	BK		·600	64"	-284"	.028"	.520"	.700	-096	.940
407		BL	.600"	64"	-237"	.028	.520"	-700"	.096"	940
201	CK		.600	32"	.348"	-028"	.520"	.700"	.096	-940
2 B.A		CL	·600°	32"	286"	.028	.520"	.700"	-096"	.940
L'B.S.F	EK		.750	32"	.386"	.028"	.680"	1.000	.096	1-240
40,0,1	10.77	EL	·750°	32"	.319"	.028"	·680°	1.000	-096"	1-240
5"B.S.F	GK.		1.000	32"	.473"	.036"	.805"	1.100"	.096"	1.350
76 B.S.F		GL	1-000	32"	.389"	·036"	.805"	1.100	.096"	1.350
1						10.00				C Criscol
			1			25 - 6	100 370			

"AEROTIGHT" HEX. CLINCH NUTS (HANK PATT)



SIZE	BASIC PART NO.	AF	A	P	N	E	7
6 B.A							
4 B.A	BM	324	-266	.080	-235	-071	-211
2 B.A	CM	413	312	-090	-311	.092	-259
#B.S.F	EM	525	-375	105	430	115	.311"
5 B.S.F	GM	-600	-500	130	510	-136	372
a"B.S.F.	JM.	.710	625	-155	-585	.150	.406
4 (F)						2 10	

To Call Up on Drawing: See A. D.S. 704.

Drawn: ACH.	"AE	RO	TIGI	4T"			4 0 0700
Date: 31.5.44	NUTS	9 A	NCH	OR	PLI	ATES	A.D.S.70°
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DE HAVILLAND AIRCRAFT PTY, LTD.

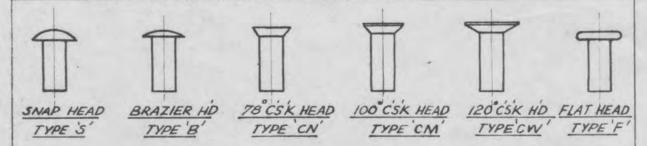
AUSTRALIA

SHEET No. ..

REE. No.

COMPLED

DATE



Rivets to Specification (E) D2528-1943 are to be used for all future design and can be used as alternatives where approved on present production. All rivets on future drawings and additional rivets on present drawings, are to be to this specification. For approved alternatives see E.O.I.890

The PT. No. to be called upon present drawings is to consist of

- (a) The material code No. denoting the material from which the rivet is made, thus:-
 - 1. ALUMINIUM SPEC. L.36 ((E) D.632) IDENTIFIED BY BLACK FILM.
 - 2. ALUMINIUM ALLOY (DURAL) DTD. 327 ((E) D.634) IDENTIFIED BY DIMPLE IN HEAD.
 - 3. STEEL. IDENTIFIED BY MAGNETIC QUALITY AND CADMIUM OR SINILAR COATING.
 - 4. COPPER. IDENTIFIED BY NATURAL COLOUR.
- (b) The Type Letter denoting the type of rivet head, thus:-

B. BRAZIER HEAD.

S - SNAP HEAD.

CN - 78° COUNTERSUNK HEAD. (NOTE: THIS IS FOR PRESENT PRODUCTION ONLY AND IS NOT TO BE USED FOR FUTURE DESIGN)

CM - 100° COUNTERSUNK HEAD.

CW - 120° COUNTERSUNK HEAD.

F - FLAT HEAD.

(c) The size code number denoting the diameter in thirty seconds of an inch and length in sixteenth of an inch, thus:- (SET OUT ON PAGE 2)

CHECKED & RIVETS TO SPEC" (E) D2528-1943 ADS. 7/ SHT/

	DE HAVILLAND AIRCRAFT PTY. LTD.	SHEET NO OF
	AUSTRALIA	Ref. No.
		COMPHED
·		DATE

LENGTH.				DIAME!	TER.	- IN.			
-IN	1/16	3/32					1/4	5/16	3/8
1/8	2-2		Sand To						
3/16	2-3	3-3	4-3						
1/4	2-4	3-4	4-4	5-4	6-4				
5/16	2-5	3-5	4-5	5-5	6-5				
3/8	2-6	3-6	4-6	5-6	6-6	7-6	8-6		
7/16	2-7	3-7	4-7	5-7	6-7	7-7	8-7		
1/2	2-8	3-8	4-8	5-8	6-8	7-8	8-8	10-8	- Julian
9/16	2-9	3-9	4-9	5-9	6-9	7-9	8-9	10-9	12-9
5/8	2-10	3-10	4-10	5-10	6-10	7-10	8-10	10-10	12-10
11/16	2-11	3-11	4-11	5-11	6-11	7-11	8-11	10-11	12-11
3/4	2-12	3-12	4-12	5-12	6-12	7-12	8-12	10-12	12-12
13/16	2-13	3-13	4-13	5-13	6-13	7-13	8-13	10-13	12-1
7/8	2-14	3-14	4-14	5-14	6-14	7-14	8-14	10-14	12-14
15/16	2-15	3-15	4-15	5-15	6-15	7-15	8-15	10-15	12-15
1	2-16	3-16	4-16	5-16	6-16	7-16	8-16	10-16	12-16
11		3-18	4-18	5-18	6-18	7-18	8-18	10-18	12-18
14		3-20	4-20	5-20	6-20	7-20	8-20	10-20	12-2
18		3-22	4-22	5-22	6-22	7-22	8-22	10-22	12-22
11/2		3-24	4-24	5-24	6-24	7-24	8-24	10-24	12-24
14		94-			-	7-28	8-28	10-28	12-28
2							8-32	10-32	12-32

EXAMPLE OF PART NOS:

1 - 8 - 4 - 8 - Snap Head Alum. } (dia.) by 2 (length)

Sizes for which there are no numbers listed on table shall be denoted by their actual fractional dimensions e.g.,

 $2-F-\frac{1}{8}$ " x 17/32 - Flat Head Alum. Alloy $\frac{1}{8}$ " (dia) by 17/32" (length)

JA: VA

DRAWN P.MEA.	DIVETS -	CDECNIE	ומו פכיבתו	2 10071 2
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DATE 28-6-44	ISSUE	1		

& TOLERANCE

MEDIUM

+ .005

1.7911

.000

1 NOTE :- ALL B.S.P. PARALLEL THREADS TO BE TRUNCATED UNLESS FULL THREADFORM IS CALLED FOR ON COMPONENT DRG FOR TAPER PIPE THREADS SEE A.D.S. 73 Sht. 5 MALE (BOLT OR EXTERNAL THREAD) FEMALE (NUT OR INTERNAL THREAD) 8 MINOR DIAMETER MAJOR DIAMETER NOMINAL TRUNCATED WHITWORTH THREADFORMS MAJOR DIAMETER EFFECTIVE MINOR MAJOR EFFECTIVE TRUNCATED TRUNCATED DIAMETER DIAMETER FULL THREADFORM DIAMETER DIAMETER DIAMETER DIAMETER TOLERANCE DIAMETER TOLERANCE & TOLERANCE (MIN.) & TOLERANCE & TOLERANCE & TOLERANCE PARALLEL 1 " 0.3777 0.3473 28 0.5102 0.4654 19 1940 3" 0-6034 0.6482 19 1/2 0.8144 0.7536 14 + .000 5" 84 14 0.8914 0.8306 SPEC THREADS .005 3" TABLE SPEC. TABLE 1.0304 0.9696 14 TABLE 7" TOLERANCE 1-1176 14 1.1784 B.S.1. B.S.1. 11 1.2956 1.2181 14" 1.5591 1.6366

1.8686

12"

73

11

FOR PARALLEL PIPE THREADS SEE A.D.S. 73 Sht. 4

B.S.P. TAPER

m P.A 235/5 1881

B.S.P. TAPER THREADS TO BE TO DIMENSIONS & TOLERANCES CALLED FOR IN B.S. SPEC. 21-1938

BRIGGS

AMERICAN STANDARD TAPER PIPE THREAD FORMERLY KNOWN AS U.S. NATIONAL TAPER PIPE THREAD

UNLESS OTHERWISE SPECIFIED ON

COMPONENT DRAWING, TO BE TO

DIMENSIONS CALLED FOR IN "SCREW

THREAD STANDARDS FOR THE FEDERAL

SERVICES 1942* AND TO BE GAUGED

IN ACCORDANCE WITH SAME TO ±

ONE TURN.

* THIS SUPERSEDES "HANDBOOK H. 25 & "REPORT OF THE AMERICAN NATIONAL SCREW THREAD COMMISSION 1933."

B.A. THREADS TO BE TO DIMENSIONS &
TOLERANCES CALLED FOR IN B.S. SPEC: 93-1919

OPTIONAL

FULL ADVANTAGE MAY BE

TAKEN OF THE EASEMENT

PROVIDED BY B.S. WAR

EMERGENCY REVISION CF(ME)

6521, DATED AUG. 1940

Traced: - F.E.S.	TITLE:- B.A. THREADS	A.D.S.73 6	
Date 13-12-44	TRUNCATED WHITWORTH THREADFORMS	A.D.3.73 6	
Checked MSN	ISSUENO /	FROM P.A. 235/6 ISSUE 2	

TRUNCATION

UNLESS OTHERWISE SPECIFIED ON COMPONENT DRAWING, ALL
SCREW THREADS OF WHITWORTH THREADFORM AND BASTARD
PITCH TO BE TRUNCATED. FORMULA FOR OBTAINING BASIC
TRUNCATED DIAMETERS IS GIVEN ON SHEET Nº I OF THIS
DRAWING (A.D.S. 73.)

TOLERANCE ON EFFECTIVE DIAMETER

FULL AND TRUNCATED THREADFORMS

SEE B.S. SPEC: 84-1940 TOLERANCE: "MEDIUM FIT "TABLE 24 A.

TOLERANCE ON MAJOR & MINOR DIAMETERS

TOLERANCE ON MAJOR DIAMETER FULL THREADFORM	SEE B.S.SPEC: 84-1940 TOLERANCE: MEDIUM FIT	B.S.SPEC'S DO NOT GIVE TOLERANCES ON MAJOR DIAMETER FOR FEMALE THREADS. SEE B.S.SPECTOR 1940 PAGE II, LINES II-
TOLERANCE ON TRUNCATED MAJOR DIAMETER MALE THREAD ONLY	+ 0.000" - 0.005"	
TOLERANCE ON MINOR DIAMETER FULL THREADFORM.		C: 84 - 1940 "MEDIUM FIT"
TOLERANCE ON TRUNCATED MINOR DIAMETER FEMALE THREAD ONLY		+ 0.005"

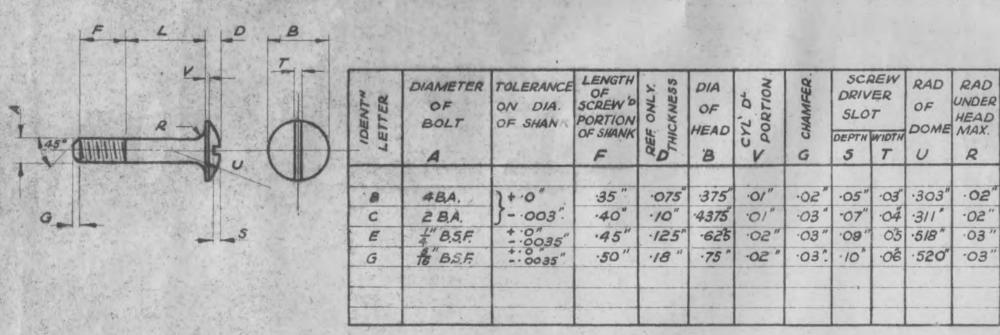
Troced: - F.E.S.	TITLES	WHITWORTH THREADFORMS
Dote: - 13-12-44		BASTARD PITCHES
1.00 A		

Checked:

A.D.S.73 7

COPIED PA.235/7 ISSUE 2

DATE -45 TIT AD S 74



THE PLAIN LENGTH 'L' INCREASES IN 10" INCREMENTS FROM 10" TO MAX! LENGTHS AS TABULATED, AN ADDITIONAL SHORT BOLT WITH PLAIN LENGTH 'L'= 05", IS AVAILABLE. THE IDENTIFICATION LENGTH OF

THIS BOLT IS & (NOT .OS") E.G. ASI885- &- E BOLTS ARE CALLED UP AS FOLLOWS

05	10	-5	-3	.4	.5	.6	7	-8	9
10	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9
40	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
5.0	5.1	5.2	5.3	5.48	2000	17 - 11		1	1

BASIC DRAWING PLAN LENGTH IDENTIFICATION LETTER
IN TENTHS OF INCHES.

\$ NOT FOR 4BA OR 2BA.

MAT. L.	MSB	51
FINISH	CADMIUM	H
10000		

To bearing

A.S.T. 153

16	CHAMFER	1 32 x 45°		7	
164	7 1				F
D.	IA.A DIA. 8	3			
		-	DIA.		
	164	164	164	16 CHAMFER 32 X 45° 32 32 32 32 32 32 32 32 32 32 32 32 32	DIA'A DIA'S

1066	- 0 34		MATERI	AL - Sele	20	Ha. & G	KL,		a take		
REF.	HDLE S	IZE .			B"	LENGT			HEAD-64	WIDTH CHAM-	RADIUS
	FROM .	.170	2/8	3747-:	000	SHORT	MED.	rome.		C	41/64
- /-	All Control			.4372	n n			1.3/32		1/32	41/04
2	.171	-233	9/16	-	3.				1.1/16	1/32	23,02-1
3	234	6295	1/2	.4997	21	19/35	27/32	1.3/32	1:1/16	1/16	23/82
4	.296	:358	5/8	.6247	41.	19/32	31/32	1.7/32	1.5/16	1/16	53/64
5	-359	.420	11/16	.6872	n	19/32	31/32	1.7/32	1.5/16	1/16	53/64
6	.421	.483		.7497	п				The state of the s	1/16	55/64
7	.484	. 545	7/8	8747	ir			1.7/32	18. 8.202	1/16	61/64
8	.546	.608	15/16	.9372	19			1.7/32	10000	1/16	61/64
9	.609	.620	T	.9997	11	1	100000000000000000000000000000000000000		1.11/16	1/16	63/64
10	6671	.733	1.1/8	1.1246	11	23/32	31/32	1.7/32	1.7/8	1/16	1.5/64
11.	•734	6795	1.3/16	1.1871	12	23/32	34/32	1.7/32	17/8	1/16	1.5/64
12	.796	.858	1.01/4	1.2496	п	23/32	31/38	7/12	2	1/36	2.754
13	.859	.920	1.5/16	1.3121	11			1.7/32		1756	1.9/64
14	.921	.983	1.3/8	1.3746	6.5	The same of the same of	1		2.1/8	1/16	1,13/64
15	-9B4	1.045	1.7/16	1.4371	11	23/32	31/32	1.7/38	2.1/8	1/16	1.23/64
16	1.046	1.108	1.1/2	1.4996	\$7	23/32	31/3	1.7/3	2 2.174	1/16	1.17/64
-	2.109	1.170	1.9/16	1.5621	21	23/3		The second second	2.1/4	400	1:12/64
18	1-171	1.23	1.5/8	1.6246	i er	23/32	31/3	21.7/3	2 2.3/8	11/16	1.21/64
19	1335	1.29	1.11/10	1.6871	H	23/32	31/3	21.7/3	2 2.3/8	1/16	1.21/64
Line	4 75	20000	ATTO	Name & Assessed	A		A what	of the	Pall and	na Env	waant on b

A Standard Sliv Bush Assembly consists of the following four parts 1 Liver Bush, 1 Slip Bush (For Drilling) 1 Slip Bush (For Beasing

