

# AMENDMENT RECORD

**No. TS200™-AR**

**for**  
**Technical Specification No. TS200™**



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Issued by: **Technical Standards Committee (Aerospace)**  
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**Registered No. 3916053 (USA)**

**SAE INDUSTRY TECHNOLOGIES CONSORTIA  
AEROSPACE STANDARDS AND PART QUALIFICATION PROGRAM  
FOREWORD**

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All references to Standards include reference to RS and TS publications.

Details of this and any further information can be obtained from the SAE ITC.


Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 33 Jan 2011	Whole document Pages 2 & 3  Pages 4 to 6  Page 8  Page 9  Page 17  Page 21  Page 25  Page 26  Page 27  Page 28  Page 29 Page 29 Page 29 Page 30 Page 35  Page 37  Page 39 Page 40 Page 42 Page 43  Page 44	Change of ADS Logo  Contents by Description – Page numbers amended to reflect new page 29 added Contents by Product Number – Page numbers amended to reflect new page 29 added Manufacturers Name Change – International Seal – FNGP added,was formerly International Seal Co. Inc. Manufacturers Name Change – Sigma Precision Components UK Ltd added was formerly B&D Patterns Ltd Bolt, Inconel 718, Blanc Aero Ind. Cold Forged now to 0.3750. TS24, Alcoa, Toulouse Operations, Hot Forged .3125 only added. SPS Technologies additional qualification for AS8632D added size .1900-32UNJF-3B Blanc Aero Industries, new qualification, AS27871 Nut Self-Locking Shank Flange Restrained. Alcoa, St Cosme, new qualifications for AS44862 and AS44863 added to table. Bristol Industries, new qualification, AS54471-5 Nut Self-Locking, Shank, Flange Restrained 0.250-28 UNJF, Added to Table, Alcoa, St Cosme, new qualifications for AS54471-5, AS54472-2 and AS54472-5 added to tables. Alcoa, St Cosme, new qualifications for AS63452, AS63454 and AS63456 added to tables. Bristol Industries, new qualifications, AS63467 Self-Locking Double Hex Nut, AS63573, AS63487 and AS63491 Nut Self Locking Shank,added to tables SPS Technologies, new qualification for AS63537, Nut Anchor added to table. New page 29 added. New table added for AS65111 Nut, Self Locking Flange Restrained SPS Technologies Ltd, new qualificatio for AS65111-2. Old page 29 re numbered to page 30, page 30 to end renumbered. Table for AS43003. Manufacturer Trellingberg Sealing Solutions – Compound Reference is 2129 was 2397/1 correction TSC Item AS63200-235 Table: Manufacturer - Amphenol Aerospace Deleted. Dunlop Aerospace Precision Rubber B916 moved to table ESC53 . Tables ESC10 and ESC30 Manufacture Pyle National deleted – factory closed. Amphenol Aerospace - (USA) added, Amphenol Limited - (UK) added. Manufacturers Identification Symbol – Paolo Astori added Manufacturers Address – Deleted B&D Patterns Ltd Manufacturers Address - Deleted Pyle National Manufactures Address – Added Sigma Precision Components UK Ltd, was formerly B&D Patterns Ltd Manufacturers Address - Trelleborg Sealing Solutions amended.	J Thacker A D S

 <p>SAE Aerospace Standards Europe 1 York Street London W1U 6PA, United Kingdom Registered No. 3916053 (USA)</p>	<p>Title</p> <p style="text-align: center;"><b>AMENDMENT RECORD for Technical Spec No. TS200™</b></p>	<p>Document No.</p> <p style="text-align: center;"><b>TS200™-AR</b></p>	
		<p>First Issue</p> <p style="text-align: center;">19-Jan-2011</p>	<p>Issue</p> <p style="text-align: center;">44</p>
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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 34 March 2011	Whole Document	Removal of all references to Datum Engineering and their qualified parts.	J Thacker A D S
TS200 Issue 35 May 2011	Page 2	Shank Flange Restrained (Waspaloy) AS63540 - AS63589 now Page 29 was Page 28	J Thacker A D S
	Page 6	AS63540 - AS63589 Nut, Self Locking Shank Flange Restrained (Waspaloy) Now Page 29 was Page 28.	
	Page 6	AS64366 - AS64374 Nut, S/L, Spline Drive - BS HR650 (AMS5737 or AMS5732) now Page 29 was Page 30†.	
	Page 20	Table Extended Washer Double Hexagon (AS20620 thru 20639) new columb added - Paolo Astori.	
	Page 20	Paolo Astori qualification AS20626 and AS20628 added to table.	
	Page 25	Table Nuts S/L Shank Flange Restrained (AS44750 thru 44753) Bristol Industries qualification AS44752 added to table.	
	Page 25	Table Nuts S/L Spline Drive, BS HR650 (AS44860 thru 44869) Bristol Industries qualification AS44861 and AS44863 added to table.	
	Page 25	Table Nuts S/L Plate (AS46720 thur 46722) reference to Fairchild/Simmonds deleted.	
	Page 25	Table Nuts S/L Plate (AS46725 thru 46727) now Alcoa / St Cosme was Fairchild/Simmonds.	
	Page 26	Table Nut S/L Shank Flanged Restrained (AS55200 thru 55203) Alcoa St Cosme QualificationAS55202-5 added to table.	
	Page 28	Table Shank Flange Restrained Waspaloy (AS63540 thru 63589) now Page 29 was Page 28.	
	Page 28	Table Shank Flange Restrained (AS63480 thru 63529) new Thread Size added .190 - 32 ( two lines).	
	Page 28	Bristol Industries qualification AS63482 and AS63483 added to table.	
	Page 29	Table Nut S/L Shank Flange Restrained Waspaloy (AS63540 thru 63589) added to page.	
	Page 29	Table Nut S/L Spline Drive - BS HR650 (AMS5737 - AMS5732) (AS64366 thru 64374) added to page.	
	Page 29	Bristol Industries qualification AS64367 added to Table	
	Page 39	Manufacturers Identification Symbols - Now Alcoa Fastening Systems Saint Cosme Operations was Farichild Fasteners (Simmonds)	
	Page 40	Alcoa Fastening Systems/Saint Cosme Operation - Telephone and Fax numbers added.	
	Page 41	Name and address of Fairchild Fasteners/Simmonds deleted.	

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 36 Aug 2011	Page 1	Contents by Description; AS63450 – AS63459 now Page 28 was Page 27. AS63540 – AS63489 now page 29 was Page 28	J Thacker A D S
	Page 2	Contents By Description; AS63536 – AS63539 now Page 27 was Page 28. AS55200 – AS55203 now Page 27 was Page 26. Shank, Flange Restrained, AS63480 – AS63529 added at Page 29 AS63530 – AS63535 now Page ‡29 was Page ‡28.	
	Page 5	Contents by Product Number; AS55200 – AS55203 now Page 29 was Page 26	
	Page 6	Contents by Product Number; AS63450 – AS63459 now Page 28 was Page 27. AS63480 – AS63529 now Page 29 was Page 28. AS63530 – AS63535 now Page ‡29 was Page ‡28. AS63536 – AS63539 now Page 29 was Page 28	
	Page 9	TS21 - Material BS HR650 Lisi Aerospace FTB Hot Forged now .190 to .500 inclusive was .250 & .3750, Cold Forged now .190 & .250 was * TS22 - Material BS S519 Lisi Aerospace FTB Hot Forged now .190 to.500 inclusive was .190, .3125 & .4375, Cold Forged now .190 & .250 was * TS24 - Material (Inconel) DTD5638 Lisi Aerospace FTB Hot Forged now .190 to .500 inclusive was .250, .375 & .500, Cold Forged now .190 & .250 was *	
	Page 10	TS25 - Material (Waspaloy) DTD5639 Lisi Aerospace FTB Hot Forged now .190 to .500 was .375 and.500, Cold Forged now .190 & .250 was *	
	Page 11	Inserts Screw Thread AGS3600 Series Alcoa Fastening Melbourne Pty now * (ceased production of AGS3600 series)	
	Page 20	Table Extended Washer Double Hex Following qualified products added to Paolo Astori: AS20624, AS20625, AS20627, AS20629 and AS20630.	
	Page 21	Table Shank Flange Restrained: Following qualified product added to Blanc Aero Industries AS27852	
	Page 26	New Table added, Extended Washer, Double Hexagon (For use with Impedance Type Bolts) AS54381 thru AS54390. Qualified product AS54387 added to table for SPS Technologies, TJBrooks Div.	
Page 27	Table Shank Flanged Restrained (AS55200 thru AS55203) now Page27 was Page 26.		
Page 28	Table Shank Flanged Restrained Waspaloy (AS63420 thru AS63429) now Page28 was Page 27. Table Double Hexagon Extended Washer (AS63450 thru AS63459) now Page 28 was Page 27. Table Double Hexagon Extended Washer Deep Counterbored (AS63460 thru AS63469) following qualifications added. AS63462 for SPS Technologies and AS63464 for Bristol Industries.		


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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 36 Aug 2011 (cond)	Page 29	Table Shank Flange Restrained (AS63480 thru AS63529) now Page 29 was Page 28. New Thread Size added .3125 – 24, A D S Part No. AS63500. New qualification added AS63500 for Bristol Industries.	
	Page 29	Table Shank Flange Restrained (AS63536 – AS63535) now Page 29 was Page 28 Table Plate (AS63536 – AS63539) now Page 29 was Page 28	
	Page 29	Table Spline Drive BSHR650 (AS64366 - AS64374) qualification added AS64367 for SPS Technologies Limited.	
	Page 30	Table Reduced Hexagon Deep Counterbored Inch Series (AS64375 – AS64378) qualification added AS64376 for SPS Technologies Limited	
	Page 30	Table Stiffnuts Hexagon Thick (AGS2001) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Hexagon Thin (AGS2002) Satair Hardware UK Ltd all types and sizes now *	
	Page 31	Table Stiffnuts Double Anchor Thick (AGS2007) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Double Anchor Thin (AGS2008) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Double Anchor Countersunk (AGS2009) Satair Hardware UK Ltd all types and sizes now *	
	Page 32	Table Stiffnuts Clinch (AGS2011) Satair Hardware UK Ltd, Mild Steel now * was 6BA & 4BA. Table Stiffnuts Floating Anchor Thick (AGS2012) Satair Hardware UK Ltd Mild Steel, now * was 2BA. Table Stiffnuts Floating Anchor Thin (AGS2013) Satair Hardware UK Ltd Mild Steel, now * was 2BA	
	Page 33	Table Stiffnuts Floating Anchor Countersunk (AGS2014) Satair Hardware UK Ltd Mild Steel, now * was 2BA Table Stiffnuts Single Anchor Thick (AGS2018) Satair Hardware UK Ltd, Suffix 66 (All Metals) now * for all Suffix 66 Table Stiffnuts Single Anchor Thin (AGS2019) Satair Hardware UK Ltd, Suffix 66 (All Metals) now * for all Suffix 66	
	Page 34	Table Stiffnuts Clinch (AGS2020) Satair Hardware UK Ltd, Suffix 66 (All Metals) now * for all Suffix 66	
	Page 35	AS25361 & AS25371 Now No Manufacturer Qualified was Trelleborg Sealing Solutions	
Page 42	Lisi Aerospace (FTB) Tel +90 (232) 477 0 400 added, Fax +90 (232) 477 0 499 added		
Page 44	Trelleborg Sealing Solutions UK Ltd Tel: 01684 857 629 was 01684 852 065: Fax: 01684 857 639 was 01684 852 210		


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TS200 Issue 37 April 2012	Whole Document	ADS Brand change, changes to logo and ADS was A D S	John Thacker ADS
	Foreword	ADS Foreword updated to reflect the four sectors.	
	Page 2	Contents By Description – Shank Flange Restrained AS65113 Page 29 Added.	
	Page 6	Contents By Product Number – AS63480 – AS63529 Now Page29 was Page 28.	
	Page 8	Notes: Manufacturers Former Names –Note 3- Bollhoff Armstrong Limited formerly Armstrong Precision Components and Armstrong Fastening Systems. Note 9- Eaton Aerospace Limited formerly Perkin Elmer Fluid Sciences and EG & G Engineering products. Note 11 – Avingtrans plc formerly Sigma Precision Components UK Ltd and B&D Patterns Ltd.	
	Page 9	TS21 and TS24 Bristol Industries references deleted. TS21 Blanc Aero Industries – Hot and Cold Forged 0.1640 added TS24 Blanc Aero Industries – Hot and Cold Forged 0.375 added TS24 Alcoa fastening Systems Toulouse Ops. – Hot Forged 0.190 0.250 and 0.375 added.	
	Page 10	Bolts - TS25 Bristol Industries reference deleted. Gaskets – manufacturer –Perkin Elmer Fluid Sciences deleted.	
	Page 11	Inserts – Manufacturer now Bollhoff Armstrong Limited was Armstrong Precision Components.	
	Page 21	Shank Flange Restrained (AS27850 thru 27899) Blanc Aero Industries AS27864 and AS27870 added.	
	Page 24	Clip Assembly (AS41104 thru 41105) Alcoa Republic AS41104 added	
	Page 26	Shank Flanged Restrained (AS54471 thru 54473) Bristol Industries AS54471-18 added.	
	Page 28	Double Hexagon Extended Washer AS63450 thru 63459 Bristol Industries AS63453 added Double Hexagon Extended Washer Deep Counterbored (AS63460 thru 63469) Bristol Industries AS63465 added. Bi Hexagon Waspaloy (AS63470 thru 63475) Bristol Industries AS63471 added. Flange Restrained (AS63476 thru 63479) Bristol Industries AS63476 and AS63479 added.	
	Page 29	Shank Flange Restrained (AS63480 thru 63529) Bristol Industries AS63492 added. New Table added Shank Flange Restrained 0.3750-24UNJF-3B, BS.A346 (ISO3161) with 3g, 5g and15g Additional Mass. SPS Technologies Ltd, TJ Brooks Div AS65113-3, AS65113-5 and AS6113-15 added.	


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TS200 Issue 37 April 2012 (cont)	Page 37	Spline Drive BS HR650 (AMS5737 or AMS5732) (AS64366 thru 64374) SPS Technologies Ltd, TJ Brooks Div AS64367 added.  HIGH TREMERATURE ELECTRICAL CONNECTORS ESC10 – Complete Assemblies. Hi-Rel Connectors Inc. Was Class KE All Sizes, Class SE All Sizes and Class YE All Sizes. Now Class KE *, Class SE *, and Class YE *.	
TS200 Issue 38 Aug 2012	Page 1 Contents by Description  Page 2 Contents by Description Cont'd  Page 5 Contents by Product Number  Page 6 Contents by Product Number Cont'd  Page 8 Notes  Page 9 Bolts TS24 Material (Inconel)  Page 15 Hexagon Flange Type (AS8623A Thru 8623J)  Page 21 Nuts Self Locking Extended Washer Double Hexagon Shank Flange Restrained	Nuts Self Locking Double Hexagon Extended Washer AS63450-AS63459 now Page 28 was Page 27 Shank Flange Restrained (Waspaloy) AS63540-AS63489 now page 29 was page 28.  Nuts Self Locking (Continued) Plate AS63536-AS63539 now Page 29 was Page 28 Reduced Hexagon Deep Counterbored Inch Series AS64375-AS64378 now Page 30 was Page 29 Shank Flange Restrained AS55200-AS55203 now Page 27 was Page 26 Shank Flange Restrained (Waspaloy) AS63420-AS63429 now Page 28 was Page 27 Union Metric Thread AS63280-AS63289 now Page 27 was Page 28  AS55200-AS55203 Nut Self Locking now Page 27 was Page 26  AS63420-AS63429 Nut Self Locking Shank Flange now Page 28 was Page 27 AS63530-AS63535 Nut Self Locking Shank Flange now Page 29 was Page 28 AS63536-AS63539 Nut Plate Self Locking now Page 29 was Page 28  Manufacturers Former Name – 9 Eaton Aerospace deleted, add B/E Aerospace Consumables Management 11 Limited formerly Satair Hardware UK Ltd.  Add – Morton Manufacturing qualification Cold Forged - .190, .250 & .3125  Alcoa/Fullerton and Microdot UK – AS86023A amended to read AS8623A  AS27820 thru AS27829 Paolo Astori added to Manufacture and Parts Qualified Table Paolo Astori qualification for AS27822 added to table. Bristol Industries qualification for AS27825 added to table.  AS27850 thru AS27889 Blanc Aero Industries qualification for AS27883 added to table.	John Thacker ADS


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<p>TS200 Issue 38 Aug 2012 (contd)</p>	<p>Page 24 Nuts Self Locking Shank Flange Restrained</p> <p>Page 27 Nuts Self Locking Shank Flanged Restrained Wasaloy</p> <p>Page 28 Nuts Self Locking Double Hexagon Extended Washer</p> <p>Double Hexagon Extened Washer Deep</p> <p>Bi Hexagon Waspaloy</p> <p>Page 29 Nute Self Locking Shank Flange Restrained</p> <p>Page 30 Self Locking Nuts Stiffnuts Hexagon Thick</p> <p>Stiffnuts Hexagon Thin</p>	<p>AS44708 thru AS44714 Blanc Aero Industries qualification for AS44714 added to table</p> <p>AS62300 thru AS62349 Bristol Industries qualification for AS62302 added to table.</p> <p>AS63450 thru 64359. Bristol Industries new qualifications added to table for AS63452 and AS63456. SPS Technologies qualification added to table for AS63455</p> <p>AS63460 thru 63469 Bristol Industries new qualification added to table for AS63462.</p> <p>AS63470 thru 63475 – Thread Size .500 – 20 added to table. ADS Part No AS63475 added Bristol Industries new qualification added to table for AS63475.</p> <p>0.2500-28UNJF-3B, BS.A346 (ISO3161) with 2g, 5g 15g Add. Mass Alcoa/St Cosme added to table. Alcoa/St Cosme qualification for AS65111-2 added.</p> <p>AGS2001 Suffix 66 (All Metals) Alluminium Alloy (3) – Arnold Wragg qualification for 5/16 BSF added Brass or Bronze (4) – Arnold Wragg qualification for 2BA added</p> <p>Suffix 77 (Non Metallic Friction Element) Corrosion Resistant Steel (2) – Arnold Wragg qualification for 5/16 BSF added. Alluminium Alloy (3) – Arnold Wragg qualification fot 2BA and 5/16 BSF added.</p> <p>AGS2002 Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for 6 BA and 7/16 BSF added. Corrosion Resistant Steel (2) Arnold Wragg qualification for 4BA and 6BA added. Alluminium Alloy (3) – Arnold Wragg qualification for 5/16BSF added Brass or Bronze (4) – Arnold Wragg qualification for 4BA added.</p>	

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TS200 Issue 38 Aug2012 (contd)	Page 31 Nuts Self Locking Nuts Cont'd Stiffnuts Double Anchor Thick	<p>AGS2007 Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for 7/16BSF added Corrosion Resistant Steel (2) – Arnold Wragg qualification for 4BA and 5/16BSF added. Alluminium Alloy (3) – Arnold Wragg qualification for 4BA added.</p> <p>Suffix 77 (Non Metallic Friction Element) Mild Steel (1) – Arnold Wragg qualification for 4BA added. Corrosion Resistant Steel (2) – Arnold Wragg qualification for 5/16BSF added.</p>	
	Stiffnuts Double Anchor Thin	<p>AGS2008 Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for 2BA added. Corrosion Resistant Steel (2) – Arnold Wragg qualification for 2BA and 1/4BSF added.</p>	
	Stiffnuts Double Anchor Countersunk	<p>AGS2009 Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for 2BA and 3/8BSF added.</p>	
	Page 32 Nuts Self locking Cont'd Stiffnuts Floating Anchor Thick	<p>AGS2012 Suffix 66 (All Metals) Mild Steel (11) – Arnold Wragg qualification for 1/4BSF added. Alluminium Alloy (33) Attachment Plate Mild Steel amended to read Alluminium Alloy (31) Attachment Plate Mild Steel Alluminium Alloy (32) Attachemnt Plate Nut and Base Plate Non Corrodible Steel added. Arnold Wragg Qualification for 2BA, 4BA and 1/4BSF added.</p>	
	Stiffnuts Floating Anchor Thin	<p>AGS2013 Suffix 66 (All Metals) Alluminium Alloy (33) Attchment Plate/Nut and Base Plate amended to read Alluminium Alloy (32) Attachment Plate/Nut and Baseplate Non Corrodible Steel – Arnold Wragg qualification for 2BA, 4BA and 1/4BSF added.</p>	
	Page 32 Nuts Self Locking Cont'd Stiffnuts Single Anchor	<p>AGS2018 Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for 4BA added.</p>	
	Page 34 Nuts Self Locking Cont'd Stiffnuts Clinch	<p>AGS2020 Manufacturer and Parts Qualified – Arnold Wragg added Suffix 66 (All Metals) Mild Steel (1) – Arnold Wragg qualification for ¼ BSF added</p> <p>Suffix 77 (Non Metallic Friction Element) Mild Steel (1) – Arnold Wragg qualification for 1/4BSF added.</p>	
	Stiffnuts with Translucent Cap	<p>AGS2021 Suffix 77 (Non Metallic Friction Element) Mild Steel (1) – Arnold Wragg qualification for 2BA added.</p>	

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TS200 Issue 38 Aug 2012 (cont)	<p>Page 35 Rings Sealing Toroidal AS43003 &amp; AS43013</p> <p>Page 37 Clamp Cushions Electrical</p> <p>Page 39 Manufacturers Identification Symbols</p> <p>Page 42 Manufacturers Addresses (cont)</p>	<p>(DTD5613 Grade 80) Manufacturer – Silvertown UK Ltd – deleted Compound Reference – 01.079 – deleted.</p> <p>AS63200-235 Manufactured to meet the requirements of ADS Technical Specification No. 147 Manufacturer – Amphanol Aerospace - deleted</p> <p>Morton Manufacturing and their symbol added</p> <p>Morton Manufacturing address details added Perkin Elmer Fluid Sciences details deleted</p>	
TS200 Issue 39 Apr 2013	<p>Page 9 BOLTS AS Bolts all configurations</p> <p>Page 10 BOLTS cont</p> <p>Page 11 INSERTS Screw thread screw locking</p> <p>Page 15 Nuts Self Locking Hexagon Flange Type</p> <p>Page 21 Nuts Self Locking Shank Flange Type</p> <p>Page 25 Nuts Self Locking Plate</p> <p>Page 27 Nuts Self Locking Shank Flange</p>	<p>TS21 Material: BS HR650 Manufacture – Alcoa Fastening Systems – Toulouse Ops added Qualified to Supply these Diameters – Hot Forged – Alcoa Fastenings Toulouse Ops - .190 added</p> <p>TS137 Material DTD5638 or EN2952/EN3219 Manufacture – Lisi Canada – added, Qualified to Supply these Diameters – Hot Forged – Lisi Canada - .250, .3125, .3750, .4375</p> <p>Helical coil AGS3700 Series Manufacturer – Alcoa Fastening now Victoria was Melbourne Qualified diameters now .190 to .375 inclusive was .190 to .500 Manufacturer – Bollhoff Verbindungsrechnik GmbH - deleted</p> <p>AS8623A thru 8623J Manufacturers and Parts Qualified – Paolo Astori added Paolo Astori qualification for AS8623E added.</p> <p>AS27850 thru 27899 Alcoa Fullerton Ops – qualification for AS27877 added</p> <p>AS46725 thru 46727 SPS Santa Ana – AS46725 and AS46726 qualifications deleted typo error.</p> <p>AS62300 thru 62349 SPS Technologies TJBrooks Div, new qualification AS62338 added to table.</p>	John Thacker ADS

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 39 Apr 2013 (cont)	Restrained Wasaloy	AS63470 thru 63475 Manufacturers and Parts Qualified – Lisi Aerospace Blanc Aero Ind added. Lisi Aerospace AS63472 and AS63475 qualifications added to table.	
	Page 28 Nuts Self Locking Bi-Hexagon Wasaloy	AS63536 thru 63539 Maunfacturers and Parts Qualified – Bristol Industries added Bristol Industries AS63537 qualification added to table.	
	Page 29 Nuts Self Locking Plate	AS63540 thru 63589 Manufacturers and Parts Qualified – Lisi Aerospace Blanc Aero Ind Lisi Aero Industries – AS63560 qualification added to table.	
	Shank Flange Restrained Waspaloy	AS64366 thru 64374 Manufacturers and Parts Qualified – Lisi Aerospace Blanc Aero Ind added. Lisi Aerospace AS64367 qualification added to table.	
	Spline Drive BS HR560	AS64375 thru 64378 Manufacturers and Parts Qualified – Lisi Aerospace Blanc Aero Ind added. Lisi Aerospace AS64376 qualification added to table	
	Page 30 Nuts Self Locking Reduced Hexagon Deep Centerbored	Dunlop Aerospace Precision Rubber deleted C of Q lapsed. Parker Hannifin Canada deleted C of Q lapsed Parker Hannifin GmbH, Germany C of Q lapsed	
	Page 35 Rings Sealing Toroidal AS12800 & AS12801	AS43003 & AS43013 Dunlop Aerospace Precision Rubber deleted C of Q lapsed. Parker Hannifin Canada deleted C of Q lapsed Parker Hannifin GmbH, Germany C of Q lapsed	
	AS43014	Dunlop Aerospace Precision Rubber deleted C of Q lapsed. Paerker Hannifin GmbH, Germany C of Q lapsed	
	Page 40 Manufacturers Addresses	Alcoa Fasteneing Systems Melbourne now Tel No.3 8545 3381 Fax 3 8545 3391, PO Box 144, Mount Waverly, 3149, Victoria.	
	Page 42 Manufacturers Addresses	Lisi Canada Added	
	Page 8 Manufacturers Former Names	Added – 1. Alcoa Fastening Sysytems Leicester Uk was formerly Linread Northbridge eas formerly Northbridge Fasteners Deleted 7. Linread-Northbridge. Manufacturers Former Names renumbered.	

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TS200 Issue 39 Apr 2013 (cont)	Page 9 AS Bolts Manufacturer	All TS's - Alcoa Fastening Systems Leicester, UK added was Linread-Northbridge.	
TS200 Issue 40 May 2014	TS21 – Material: BS HR659  TS23 - Material BS HR601  Page 10 AS Bolts Manufacturer  TS145 Material FV535  Page 11 INSERTS :  Wire Thread AS6733  AS6734  AS8455  AS8456  Page 20 Nuts Self Locking Extended Washer Double Hexagon  Page 21 Nuts Self Locking Shank Flange Restrained	Manufacturer – Lisi Aerospace FTB – Hot Forged now .164 to .500 Inclusive was .190 to .500 inclusive.  Manufacturer – Lisi Aerospace FTB – Hot Forged .190 & .250 added Cold Forged .190 & .250 added.  TS25 & TS145 – Alcoa Fastening Systems Leicester, UK added was Linread-Northbridge  Manufacturer – Lisi Aerospace FTB – Cold Forged added .190 & .250  Manufacturer Emhart Teknologies, Qualified to supply these diameters All available sizes- deleted in toto. Qualification not Required added  Now Wire Thread Inserts UNC Unplated was Screw Thread Screw Locking Helical Coil CRES unplated UNF Manufacturer and Parts qualified Emhart Teknologies AS6734 Bolt Thread Size deleted in toto. Qualification not Required added  Now Wire Thread Inserts UNF Cad Plated was Screw Thread Screw Locking Helical Coil CRES Cadmium plated UNC Manufacturer and Parts qualified Emhart Teknologies AS8455 Bolt Thread Size deleted in toto. Qualification not Required added  Now Wire Thread Inserts UNC Cad Plated was Screw Thread Screw Locking Helical Coil CRES Cadmium plated UNC Manufacturer and Parts qualified Emhart Teknologies AS8456 Bolt Thread Size deleted in toto. Qualification not Required added  AS20620 thru AS20639 Blanc Aero Industries AS20627 qualification added to table  AS27850 thru AS27899 Blanc Aero Industries qualification AS27892 added to table, SPS Technologies TJ Brooks AS27892 qualification deleted, correcting error.	John Thacker ADS


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TS200 Issue 40 May 2014 (cont)	Page 29 Nuts Self Locking Shank Flange Restrained	AS63480 thru AS63529 Blanc Aero Industries added Blanc Aero qualification for AS63520 added.to table.	
	Plate	AS63536 thur 63539 Thread Size .1900-32 added, ADS Part No. AS63536 added SPS Technologies Santa Ana AS63536 qualification added to table.	
	Shank Flange Restrained 0.2500-28 UNJF	With 2g, 5g, 12g and 18g additional mass. SPS Technologies Ltd qualification for AS65111-5 added to table.	
	Page 30 Stiffnuts, Hexagon Thick (AGS2001)	B.A.S Aerospace Ltd qualifications deleted.	
	Hexagon Thin (AGS2002)	B.A.S Aerospace Ltd qualifications deleted.	
	Countersunk (AGS2003)	B.A.S Aerospace Ltd qualifications deleted.	
	Page 31 Double Anchor Thick (AGS2007)	B.A.S Aerospace Ltd qualification deleted	
	Double Anchor Thin (AGS2008)	B.A.S Aerospace Ltd qualification deleted	
	Page 32 Floating Anchor Thick (AGS2012)	B.A.S Aerospace Ltd qualification deleted.	
	Page 34 Stiffnuts Transluscent Cap (AGS2021)	B.A.S Components Ltd qualification deleted	
	Double Anchor Transluscent Cap (AGS2023)	B.A.S Components Ltd qualification deleted.	
	Page 36 Safety Cables and Ferrules	Bergen Cable Technologies qualifications deleted.	


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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 40 May 2014 (cont)	<p>Socket Wrench Db Hexagon Flank Drive</p> <p>Page 37 Clamp Cushions (Electrical Harness and Pipe)</p> <p>Page 40 Manufacturers' Addresses</p> <p>Page 42 Manufacturers' Addresses Contd</p>	<p>Snap-on Tools qualifications deleted.</p> <p>AS63200-235 manufactured to meet requirements of ADS Technical Standard No. 170 Manufacturer – TA Kirkhill deleted, qualification deleted.</p> <p>Added Alcoa Fastening Systems Leicester, UK.</p> <p>Deleted Linread-Northbridge in toto.</p>	
TS200 Issue 41 July 2014	<p>Whole Document</p> <p>Page 9 <u>BOLTS</u> TS21 – Material: BS HR650</p> <p>TS24 – Material: (Inconel) DTD5638</p> <p>Page 10 <u>BOLTS</u> (Cont.) TS25 – Material: (Waspaloy) DTD5639</p> <p><u>SCREWS</u> AS65000 Sprial Drive 100 CSK</p> <p>AS65010 Sprial Drive 100 CSK Full Head</p> <p>Page 20 NUTS Self Locking Extended Washer Double Hexagon</p>	<p>References to Valley Todeco, Fairchild/Sth Bay, Rosan &amp; Microdot UK deleted – refer to Alcoa Fastening Systems, Torrance Operation for qualified products.</p> <p>Alcoa Fastening Systems – Toulouse Ops - .190 cold forged – was .190 Hot Forged</p> <p>Alcoa Fastening Systems Toulouse Ops - .3125 delete correcting error.</p> <p>M.S. Aerospace Inc - .190" &amp; .250" Hot Forged All lngth full thread and .190" &amp; .250" Cold Forged All lngth full thread added. (New qualification)</p> <p>Now No Manufacturer Qualified – was SPS Technologies Ltd All Sizes</p> <p>Now No Manufacturer Qualified – was SPS Technologies Ltd All Sizes</p> <p>AS20620 thru AS20639 Blanc Aero Industries AS20625 Added ESNA – AS20624 to AS20628 &amp; AS20631 deleted in toto Minenba Co Ltd - AS20624 to AS20626 inc deleted in tyoto..</p>	John Thacker ADS

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TS200 Issue 41 (cont)	<p>Page 21 NUTS Self Locking (Cont'd) Extended Washer Double Hexagon</p> <p>Shank Flange Restrained</p> <p>Page 22 Six Point Captive Washer</p> <p>Six Point Self Aligning</p> <p>Page 24 Shaft</p> <p>Shank, Flange Restrained</p> <p>Page 27 Shank Flanged Restrained</p> <p>Shank Flanged Restrained Wasaloy</p> <p>Page 28 Double Hexagon Extended Washer Deep Counterbored</p> <p>Shank Flange Restrained</p> <p>Page 29 Shank Flange Restrained</p> <p>Shank Flange Restrained Waspaloy</p> <p>Spline Drive – BS HR650 (AMS5753 or AMS5732)</p>	<p>AS27820 thru AS27829 ESNA – AS27822 Thru AS27825 deleted intoto. Minenba Co Ltd – AS27822 thru AS27824 deleted in toto</p> <p>AS27850 thru AS27899 ESNA – AS27852 Thru AS27892 deleted in toto SPS Technologies T.J.Brooks Div. – AS27878, AS27880 &amp; AS27889 deleted.</p> <p>AS28000A thru AS28000J Alcoa/ Fullerton AS28000J added</p> <p>AS28001D thru AS28001J Alcoa/Fullerton AS28001E &amp; AS28001G added.</p> <p>AS42400 thru AS42458 SPS Technologies T.J.Brooks Div AS42454 deleted</p> <p>AS44708 thru AS44714 SPS Technologies T.J.Brooks Div AS44713 deleted</p> <p>AS55200 thru AS55203 Bristol Industries AS55200-1 thru AS55202-8 added</p> <p>AS62300 thru AS62349 Bristol Industries AS62312 deleted SPS Technologies T.J.Brooks AS62342 added</p> <p>AS63460 thru AS63469 SPS Technologies Ltd AS63467 added.</p> <p>AS63476 thru AS63479 SPS Technologies , Santa Ana, AS63477 added</p> <p>AS63480 thru AS63529 SPS Technologies, Santa Ana, AS63487 added</p> <p>AS63540 thru AS63589 Blanc Aero Industries AS63573 deleted. SPS Tehnologies Ltd AS63547 added.</p> <p>AS64366 thru AS64374 SPS Technologies T.J.Brooks Div AS64367 deleted SPS Technologies Ltd AS64367 deleted.</p>	

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TS200 Issue 41 (cont)	Page 30 Stiffnuts Hexagon Thick Suffix 66	AGS2001 Philidas Ltd deleted – ceased trading.	
	Stiffnuts Hexagon Thin Suffix 66	AGS2002 Philidas Ltd deleted – ceased trading.	
	Page 31 Stiffnuts Double Anchor Thick Suffix 66	AGS2007 Philidas Ltd deleted – ceased trading.	
	Stiffnuts Double Anchor Thin Suffix 66	AGS2008 Philidas Ltd deleted – ceased trading.	
	Page 32 Stiffnuts Clinch Suffix 66	AGS2011 Philidas Ltd deleted – ceased trading.	
	Page 35 PINS Quick Release (Push & Pull Type) Imperial	AS64363 Carr Lane Mfg. Co deteted No Manufacturer Qualified to produce these parts- added	
	Pins Quick Release (Push & Pull Type) With Handle Imperial	AS64364 Carr Lane Mfg. Co deteted No Manufacturer Qualified to produce these parts- added	
	Page 36 RINGS SEALING TOROIDAL	AS43003 & AS43013 Now (DTD5613 Grade 80, EN2798 & AMS7276) was (DTD5613 Grade 80)	
	Page 37 HIGH TEMPERATUR ELECTRICAL CONNECTORS ESC Series ESC53	Bushes (Manufactured to the requirements of SBAC Technical Specification No.377) Dunlop Aerospace precision Rubber - B916 – All Sizes deleted RE Components Ltd – B916 – All Sizes - deleted	
	Page 43 MANUFACTUR ER'S ADDRESSES (cont)	M.S. Aerospace Inc details added.	

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TS200 Issue 42 May 2015	<p>General</p> <p>Page 10 TS25 - Material (Waspaloy) DTD5639</p> <p>Page 28 NUTS SELF LOCKING Contd Double Hexagon Extended Washer</p> <p>Page 35 PINS QUICK RELEASE (PUSH &amp; PULL TYPE PIP PIN) IMPERIAL</p> <p>PINS QUICK RELEASE (PUSH &amp; PULL TYPE PIP PIN WITH HANDLE) IMPERIAL</p> <p>Page 37 HIGH TEMP ELECTRICAL CONNECTORS</p> <p>Page 43 MANUFACTURER'S ADDRESSES (cont)</p>	<p>Format updated to reflect change of organisation name from SBAC and ADS to SAE ITC. Refer to Foreward for more details. Revision issue of this Amendment Record (previously 9), now synchronises with that of the Technical Specification it is recording in line with SAE ITC (Aerospace) policy i.e. its issue is now 42. (Note: -AR issues 10 to 41 not used).</p> <p>LISI Aerospace (FTB) Hot Forged - Now .190, .250, .3125, .375 &amp; .500 was .190 to .500 inclusive - corrects error.</p> <p>AS63450 thru AS63459 Manufacturer Added - Paolo Astori Parts Qualified added – AS63451 to AS63456 inclusive</p> <p>Now <u>There are no manufacturers currently qualified to produce these parts</u> WAS Carr Lane Mfg Co AS64363-4 to -7 inc</p> <p>Now <u>There are no manufacturers currently qualified to produce these parts</u> WAS Carr Lane Mfg Co AS64364-4 to -8 inc</p> <p><u>ESC10 Complete Assemblies – Manufacturer</u> Amphenol Aerospace (USA) deleted qualification not renewed. Sonitronies, S.A. de C.V. DPTO A.E. Petsche was A.E. Petsche name change due to move of manufacturing sites from USA to Mexico.</p> <p><u>ESC53 – Bushes (Manufactured to the requirements of SAE ITC Technical Specification No.377)</u> Amphenol Interconnect India Pvt Ltd - STD-303 Iss 1 – All Sizes added.</p> <p>Souriau VADs Sonitronies S.A. de C.V. DPTO A.E. Petsche Co. Inc, Boulevard Luis Donald Colosio 1179, Nogales, Sonora 84020, Mexico WAS A.E. Petsche Co, Arlington, Texas, USA</p> <p>Kapco Global, 30 Woolmer Way, Bordon, Hampshire, GU35 9QE, UNITED KINGDOM WAS Avilec International, Avilec House, Petersfield, Hampshire, GU32 3LJ</p>	John Thacker SAE ITC

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TS200 Issue 43 April 2016	General	General formatting to rectify administration errors	Trevor Jackson SAE ITC
	Page 11	Bollhoff Armstrong diameter range amended to bring in line with the Qualification Certificate Now reads: 6-32(.138) Except 1D, No10-32(.190), .250, .3125, .375 & .500	
	Page 17	SPS Technologies part range increased to add AS8623E	
	Page 25	NAFCO added manufacturers list. New part, AS44750 added.	
	Page 27	NAFCO added manufacturers list. New part, AS62302 added.	
	Page 28	NAFCO added manufacturers list. New parts, AS63451, AS63452 AS63462, AS63471 and AS63472 added.  Bristol Industries AS63473 added.	
	Page 29	NAFCO added manufacturers list. New parts, AS63560 & AS63581 added.	
	Page 32	Arnold Wragg updated to add "& 4BA"	
	Page 38	Amphenol Interconnect India Pvt Ltd, All sizes added.	
Page 39	NAFCO manufacturers symbol added		
Page 42	Manufacturers addresses updated to add NAFCO details.		
TS200 Issue 44 Jan 2017	General	General formatting to rectify administration errors and replace ADS & A D S with SAE ITC in the main body of the document. Not Foreword.	Trevor Jackson SAE ITC
	Page 24 NUTS, SELF LOCKING Bi-Hexagon	NAFCO added to manufacturers list. New part, AS42910 added.	
	Page 25 NUTS, SELF LOCKING Shank, Flange Restrained	NAFCO part range increased to add AS44751.	
	Page 25 NUTS, SELF LOCKING Nut Plate	SPS Technologies removed from manufacturers list.  Paolo Astori added to manufacturers list, AS46725 & AS46726 added.	
Page 27 NUTS, SELF LOCKING Shank, Flanged Restrained	SPS Technologies part range increased to add AS62339 & AS62340.		


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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
	Page 28 NUTS, SELF LOCKING Double Hexagon, Extended Washer	NAFCO part range increased to add AS63453 & AS63454.	
	NUTS, SELF LOCKING Bi Hexagon	NAFCO part range increased to add AS63475	
	NUTS, SELF LOCKING Flange restrained	NAFCO added to manufacturers list, AS63476, AS63477 & AS63479 added.	
	Page 29 NUTS, SELF LOCKING Shank, Flange Restrained	NAFCO added to manufacturers list, AS63482, AS63487, AS63491 & 92 added.	
	Page 29 NUTS, SELF LOCKING Shank, Flange Restrained	Asterisk added to Alcoa/St Cosme part number AS65111-2  Following note added to bottom of page.  * Parts manufactured after April 2015 are not qualified.	
	Page 37 CLAMP CUSHIONS	ESPA Cushion Material Reference T30C added (Technical Specification No. 147).  Adel Wiggins part range increased to add AS65200 – 235 (Technical Specification No. 170).	
	Page 37 HIGH TEMPERATUR E ELECTRICAL CONNECTORS (ESC SERIES)	Amphenol India added to manufacturers list, All Sizes added to ESC51 & ESC52	
	Page 38 HIGH TEMPERATUR E ELECTRICAL CONNECTORS (ESC SERIES)	Amphenol India added to manufacturers list to ESC65, ESC66 & ESC67 , All Sizes added.	
	Page 42 MANUF'S ADDRESSES	Morton Manufacturing address updated	
		<i>start next issue here</i>	

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