

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS172236 THRU
AS172270

FEDERAL SUPPLY CLASS
5310

NOTICE

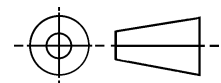
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS172236 THRU MS172270B, NOTICE 1 AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS172236 THRU MS172270B, NOTICE 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of as172236

THIRD ANGLE PROJECTION



ISSUED 2000-08

PREPARED BY SAE COMMITTEE E-25

PROCUREMENT SPECIFICATION: NONE

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

NUT, SPANNER, BEARING RETAINING,
AERONAUTICAL (ASG)

AS172236 THRU
AS172270
SHEET 1 OF 4

NUT, SPANNER, BEARING RETAINING,
AERONAUTICAL (ASG)

1. MATERIAL: STEEL AMS 6381 OR 6382.
2. HARDNESS: 26-32 HRC. HARDEN (OIL QUENCH) AND TEMPER.
3. MAGNETIC PARTICLE INSPECTION PER AMS 2640 AND AS 3071.
4. SURFACE TEXTURE: ANSI B46.1-1962. UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES (3.2 MICROMETERS).
5. DIMENSIONING AND TOLERANCING: ANSI Y14.5-1966, ϕ = DIAMETER.
6. BREAK SHARP EDGES .003-.015 (0.08-0.38) UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONS IN INCHES (MILLIMETERS). METRIC CONVERSIONS IN PARENTHESIS ARE INTERNATIONAL SYSTEM (SI).
8. THREADS IN ACCORDANCE WITH MIL-S-7742 ARE ACCEPTABLE UNTIL 30 AUGUST 1976.
9. DO NOT USE UNASSIGNED PART NUMBERS.

AS AND AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC., PUBLICATIONS.

THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE SAE AEROSPACE PROPULSION DIVISION

PART NO.	NOMINAL BEARING BORE DIAMETER		THREAD DESIGNATION	MINOR DIAMETER				PITCH DIAMETER				MAJOR DIA.		A		B	
	INCH	mm		INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MS172236	.3937	10	.391-32 UNJS-3B	.3906-3649	9.100-9.268	.3707-.3723	9.416-9.481	.381	9.84	.704-.724	17.69-18.38	.173-.193	4.40-4.90				
MS172237	.4724	12	.468-32 UNJS-3B	.4386-.4429	11.141-11.249	.4497-.4513	11.405-11.463	.456	11.69	.828-.848	20.94-21.63	.208-.228	5.31-5.81				
MS172238	.5906	15	.586-32 UNJS-3B	.5506-.5549	14.113-14.221	.5657-.5677	14.365-14.444	.580	14.86	.923-.943	23.45-23.95	.208-.228	5.31-5.81				
MS172239	.6893	17	.684-32 UNJS-3B	.6336-.6366	16.094-16.169	.6437-.6467	16.350-16.426	.664	16.87	1.047-1.067	26.60-27.10	.208-.228	5.31-5.81				
MS172240	.7814	20	.781-32 UNJS-3B	.7506-.7540	19.066-19.151	.7607-.7641	19.322-19.408	.781	19.84	1.173-1.193	29.90-30.40	.240-.260	6.10-6.60				
MS172241	.9843	25	.985-32 UNJS-3B	.9386-.9420	23.841-23.926	.9497-.9521	24.097-24.163	.969	24.62	1.360-1.380	34.55-35.05	.240-.260	6.10-6.60				
MS172242	1.1811	30	1.173-18 UNJS-3B	1.1185-1.1230	29.424-29.524	1.1385-1.1409	29.676-29.788	1.173	29.80	1.673-1.693	42.50-43.00	.271-.291	6.89-7.39				
MS172243	1.3780	35	1.376-18 UNJS-3B	1.3219-1.3260	33.577-33.680	1.3385-1.3439	34.034-34.135	1.376	34.96	1.891-1.911	48.04-48.53	.271-.291	6.89-7.39				
MS172244	1.5748	40	1.563-18 UNJS-3B	1.5069-1.5134	38.277-38.440	1.5289-1.5314	38.784-38.897	1.563	39.70	2.079-2.099	52.81-53.31	.271-.291	6.89-7.39				
MS172245	1.7717	45	1.767-18 UNJS-3B	1.7129-1.7174	43.506-43.621	1.7305-1.7354	43.965-44.079	1.767	44.89	2.297-2.317	58.35-58.85	.302-.322	7.69-8.17				
MS172246	1.9695	50	1.967-18 UNJS-3B	1.9129-1.9174	48.568-48.701	1.9305-1.9354	48.945-49.159	1.967	49.97	2.486-2.506	63.12-63.62	.302-.322	7.69-8.17				
MS172247	2.1654	55	2.157-18 UNJS-3B	2.1029-2.1080	53.414-53.543	2.1209-2.1260	53.871-54.000	2.157	54.79	2.735-2.755	69.47-69.97	.302-.322	7.69-8.17				
MS172248	2.3622	60	2.350-18 UNJS-3B	2.3059-2.3110	58.570-58.699	2.3239-2.3290	59.027-59.156	2.360	59.95	2.923-2.943	74.25-74.75	.334-.354	8.49-8.99				
MS172249	2.5591	65	2.548-18 UNJS-3B	2.4939-2.4990	63.346-63.474	2.5119-2.5170	63.803-63.931	2.548	64.72	3.110-3.130	79.00-79.50	.334-.354	8.49-8.99				
MS172250	2.7559	70	2.751-18 UNJS-3B	2.6989-2.7020	68.502-68.631	2.7149-2.7200	68.959-69.088	2.751	69.88	3.329-3.349	84.56-85.04	.334-.354	8.49-8.99				
MS172251	2.9528	75	2.933-12 UNJS-3B	2.8519-2.8572	72.436-72.563	2.8699-2.8843	73.124-73.281	2.933	74.50	3.673-3.693	93.30-93.80	.365-.385	9.29-9.77				
MS172252	3.1496	80	3.137-12 UNJS-3B	3.0588-3.0617	77.618-77.767	3.0829-3.0888	78.306-78.465	3.137	79.69	3.891-3.911	98.84-99.33	.365-.385	9.29-9.77				
MS172253	3.3465	85	3.340-12 UNJS-3B	3.2588-3.2662	82.774-82.956	3.2859-3.2935	83.462-83.649	3.340	84.84	4.110-4.130	104.40-104.90	.395-.415	10.06-10.56				
MS172254	3.5433	90	3.527-12 UNJS-3B	3.4458-3.4522	87.524-87.711	3.4729-3.4803	88.012-88.289	3.527	89.59	4.297-4.317	109.15-109.65	.395-.415	10.06-10.56				
MS172255	3.7402	95	3.725-12 UNJS-3B	3.6488-3.6542	92.550-92.687	3.6759-3.6833	93.045-93.255	3.720	94.75	4.516-4.536	114.71-115.21	.395-.415	10.06-10.56				
MS172256	3.9370	100	3.918-12 UNJS-3B	3.8369-3.8442	97.455-97.657	3.8639-3.8713	98.143-98.331	3.918	99.52	4.704-4.724	119.49-119.98	.395-.415	10.06-10.56				
MS172257	4.1339	105	4.122-12 UNJS-3B	4.0408-4.0491	102.722-102.847	4.0679-4.0762	103.325-103.535	4.122	104.70	4.891-4.911	124.28-124.73	.395-.415	10.06-10.56				
MS172258	4.3307	110	4.325-12 UNJS-3B	4.2436-4.2521	107.793-108.003	4.2709-4.2792	108.369-108.591	4.325	109.66	5.110-5.130	129.60-130.30	.395-.415	10.06-10.56				