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AS8538™

FEDERAL SUPPLY CLASS
5305

RATIONALE

THE STANDARD SETS FORTH THE DIMENSIONS AND GAGING SYSTEM FOR THE TORX® PARALOBE® DRIVE SYSTEM AND IS SUPPLEMENTAL TO FASTENER STANDARDS DEVELOPED THAT INCORPORATE THIS DRIVE FEATURE.

AS8538 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

A REAFFIRMED STATUS IS GIVEN TO TECHNICAL REPORTS THAT HAVE BEEN REVIEWED BY THE TECHNICAL COMMITTEE AND DEEMED TO BE CURRENT WITH NO NEED FOR IMMEDIATE REVISION. NO CHANGES HAVE BEEN MADE TO THIS DOCUMENT AS A RESULT OF THIS REVIEW.

SCOPE

THIS STANDARD SPECIFIES BASIC DIMENSIONS, CHARACTERISTICS, AND ENGINEERING REQUIREMENTS FOR TORX® PARALOBE® RECESSES.

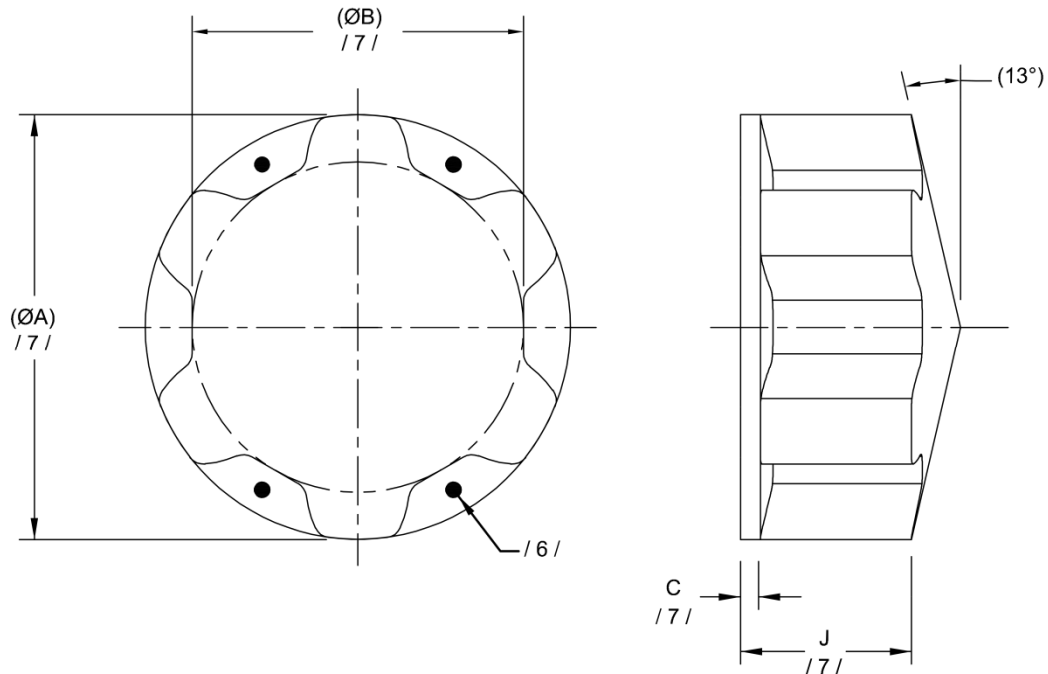
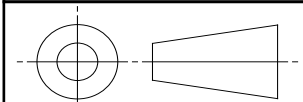


FIGURE 1 - BASIC RECESS CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS8538/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

RECESS, INTERNAL, TORX® PARALOBE® DRIVE,
DIMENSIONS OF RECESS AND GAGE

AS8538™
SHEET 1 OF 7

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TABLE 1 - BASIC RECESS CONFIGURATION DIMENSIONS

AS8538 DASH NO.	DRIVE SIZE DESCRIPTOR	(ØA) RECESS DIAMETER	(ØB) RECESS INSCRIBED DIAMETER
001	1SI	.037	.027
002	2SI	.042	.030
003	3SI	.050	.036
004	4SI	.057	.042
005	5SI	.062	.046
006	6SI	.074	.057
007	7SI	.087	.067
008	8SI	.100	.077
009	9SI	.108	.083
010	10SI	.118	.090
015	15SI	.140	.108
020	20SI	.165	.128
025	25SI	.189	.145
027	27SI	.212	.165
030	30SI	.235	.182
040	40SI	.282	.219
045	45SI	.331	.261
050	50SI	.374	.290
055	55SI	.474	.378
060	60SI	.561	.439
070	70SI	.656	.518
080	80SI	.741	.577
090	90SI	.843	.665
100	100SI	.935	.738
110	110SI	1.010	.774



AEROSPACE STANDARD

RECESS, INTERNAL, TORX® PARALOBE® DRIVE,
DIMENSIONS OF RECESS AND GAGE

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SHEET 2 OF 7



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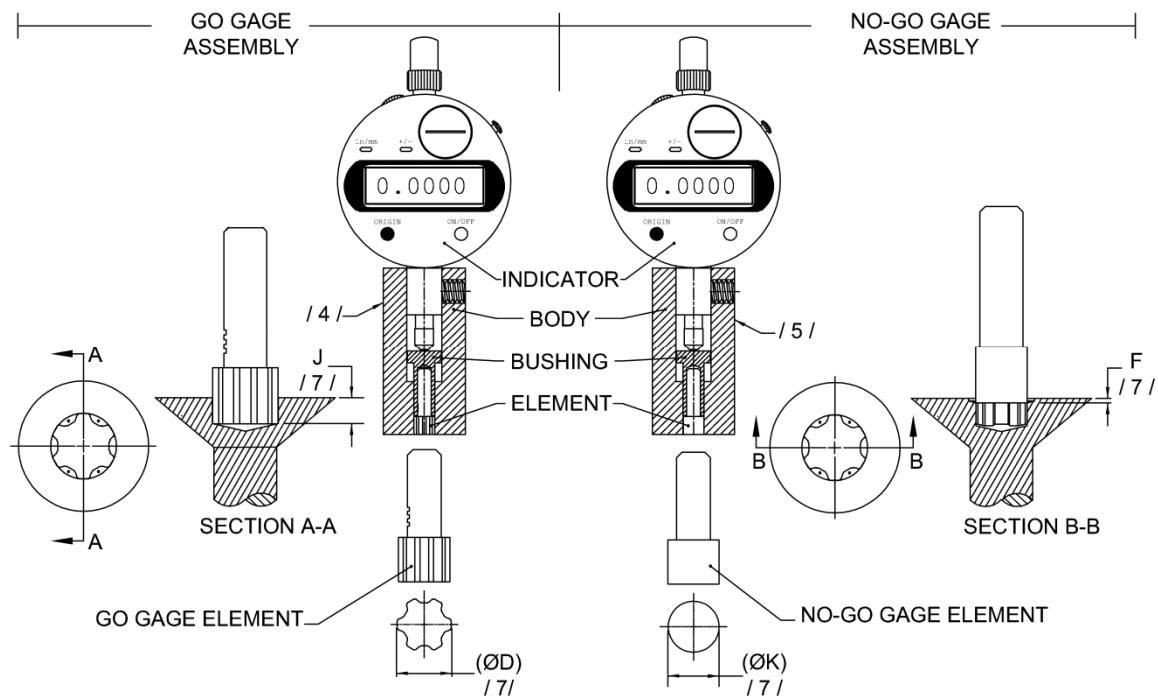


FIGURE 2 - GO AND NO-GO RECESS DEPTH GAGES, PENETRATION-TYPE GAGE ASSEMBLY

1. RECESS INSPECTION
- 1.1 PENETRATION-TYPE GAGE

USING THE APPROPRIATE SIZE GAGE, SEE TABLE 2, CHECK THE ZERO ADJUSTMENT AGAINST A KNOWN FLAT SURFACE. INSERT THE GAGE ELEMENT INTO THE RECESS AND FIRMLY PUSH THE TOP OF THE RECESS AGAINST THE BOTTOM OF THE GAGE BODY. MEASURE AND RECORD THE GAGE DEPTH. THE READING SHALL BE WITHIN ACCEPTABLE LIMITS PER APPLICATION FASTENER STANDARD.

	AEROSPACE STANDARD		AS8538™	
	RECESS, INTERNAL, TORX® PARALOB® DRIVE, DIMENSIONS OF RECESS AND GAGE		SHEET 5 OF 7	

