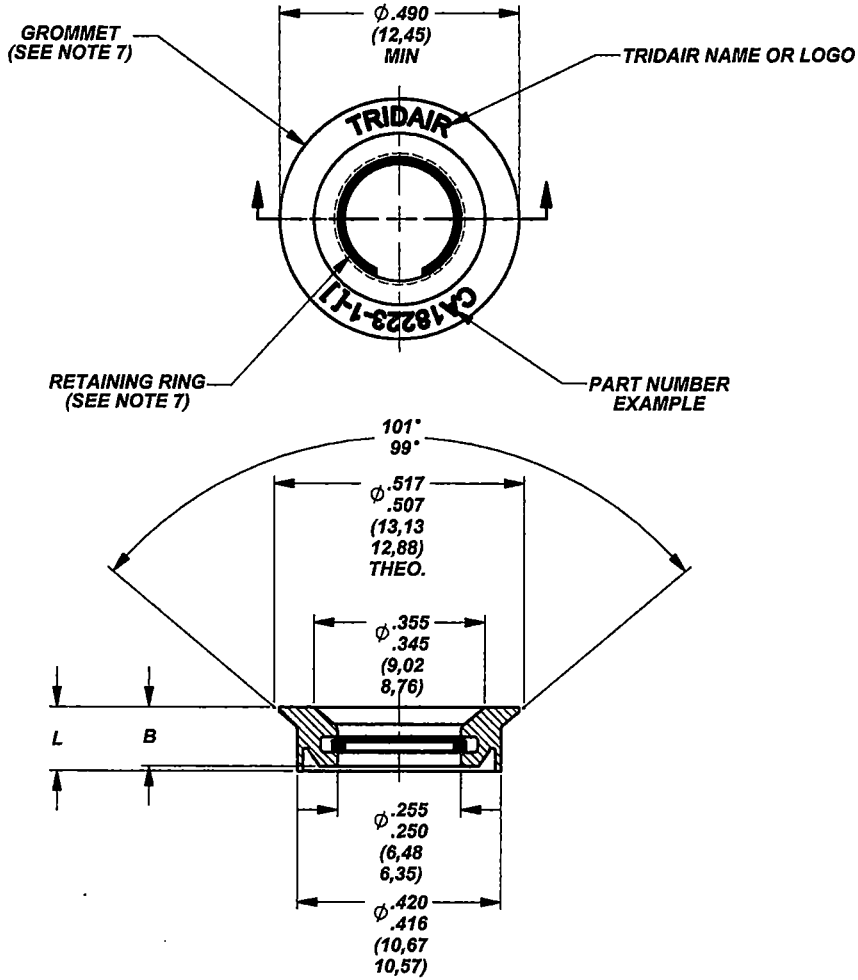


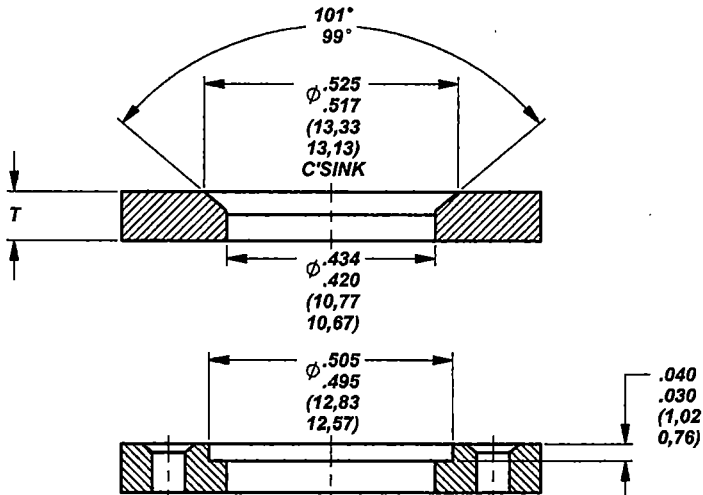


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PANEL PREPARATION



ORIGINAL DESIGN ACTIVITY: CAGE CODE 29372, TRIDAIR PRODUCTS

APPROVED DATE	5 SEP 90
REV. LETTER	M
DATE	18 MAY 20

CURRENT DESIGN ACTIVITY:	Howmet Fastening Systems (HFS)
	TORRANCE OPERATIONS

TITLE:	GROMMET ASSEMBLY STUD HOLD-OUT
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CURRENT DESIGN ACTIVITY:	CAGE CODE: 29372
	SALES DRAWING NO.
	CA18223-()

DAF NUMBER	119344
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TRIDAIR PRODUCTS
3000 W. LOMITA BLVD.
TORRANCE, CA. 90505

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES:	ANGLES DECIMALS	XX = ±3°
		XXX = ±.02
		XXXX = ±.010

SHEET	1 OF 3
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S41119



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TABLE 1

DASH NUMBER	INCH DIMENSIONS					
	L		B		T	
-1	.098	.112	.090	.100	.065	.075
-2	.103	.117	.095	.105	.075	.085
-3	.113	.127	.105	.115	.085	.095
-4	.123	.137	.115	.125	.095	.105
-5	.133	.147	.125	.135	.105	.115
-6	.143	.157	.135	.145	.115	.125
-7	.148	.162	.135	.145	.120	.130
-7A	.153	.167	.145	.155	.125	.135
-8	.163	.177	.155	.165	.135	.145
-9	.173	.187	.165	.175	.145	.155
-10	.183	.197	.175	.185	.155	.165
-11	.193	.207	.185	.195	.165	.175
-12	.203	.217	.195	.205	.175	.185
-13	.213	.227	.205	.215	.185	.195
-14	.223	.237	.215	.225	.195	.205
-15	.233	.247	.225	.235	.205	.215
-16	.243	.257	.235	.245	.215	.225

TABLE 2

DASH NUMBER	METRIC DIMENSIONS (Millimeters; x,xx)					
	L		B		T	
-1	2,49	2,84	2,290	2,540	1,650	1,910
-2	2,62	2,97	2,413	2,667	1,905	2,159
-3	2,87	3,23	2,667	2,291	2,159	2,413
-4	3,12	3,48	2,921	3,175	2,413	2,667
-5	3,38	3,73	3,175	3,429	2,667	2,921
-6	3,63	3,99	3,429	3,683	2,921	3,175
-7	3,76	4,11	3,429	3,683	3,048	3,302
-7A	3,89	4,24	3,683	3,937	3,175	3,429
-8	4,14	4,50	3,937	4,191	3,429	3,683
-9	4,39	4,75	4,191	4,445	3,683	3,937
-10	4,65	5,00	4,445	4,699	3,937	4,191
-11	4,90	5,26	4,699	4,953	4,191	4,445
-12	5,16	5,51	4,953	5,207	4,445	4,699
-13	5,41	5,77	5,207	5,461	4,699	4,953
-14	5,66	6,02	5,461	5,715	4,953	5,207
-15	5,92	6,27	5,715	5,969	5,207	5,461
-16	6,17	6,53	5,969	6,223	5,461	5,715

NOTES; UNLESS OTHERWISE SPECIFIED:

1. MATERIAL:
 - 1.1 GROMMET: 300 SERIES CRES PER AMS5640, ASTM-A-581/ASTM-A-582.
 - 1.2 RETAINING RING: 17-7PH CRES PER AMS5673/AMS5678.
 2. HEAT TREAT:
 - 2.1 GROMMET: NONE.
 - 2.2 RETAINING RING: Rc 43 MINIMUM PER AMS-H-6875, AMS2759.
 3. FINISH: PASSIVATED PER AMS2700.
 4. USE WITH CA18231-()HS OR EQUIVALENT STUDS NUTS AS SHOWN TO PROVIDE FLUSH. RETRACTION REQUIRED FOR REMOVAL OF NOSE CONES, RADOMES, LEADING EDGE, ETC.
 5. CONSULT HOWMET ENGINEERING DEPARTMENT FOR AVAILABILITY OF OPTIONAL MATERIALS, FINISHES AND SIZES.
 6. DIMENSIONS: $\frac{\text{INCHES}}{\text{MILLIMETERS}}$
- <7> COMPONENTS MAY BE ORDERED SEPARATELY BY PART NUMBER:
- 7.1 GROMMET: PART NUMBER CA18223G-().
 - 7.2 RETAINING RING: PART NUMBER CA18185SP.

ORIGINAL DESIGN ACTIVITY: CAGE CODE 29372, TRIDAIR PRODUCTS

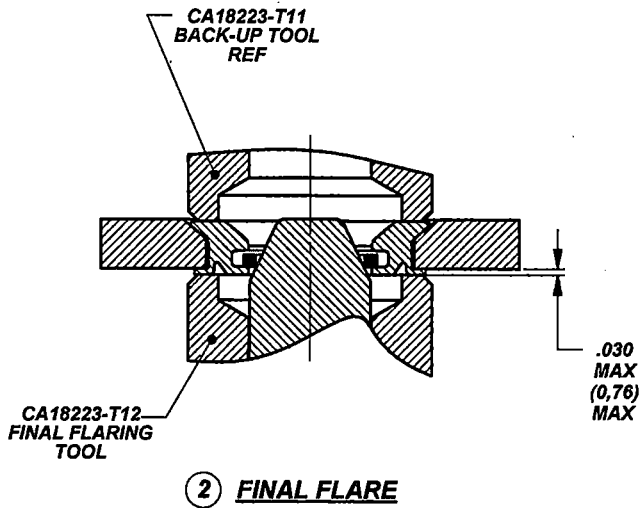
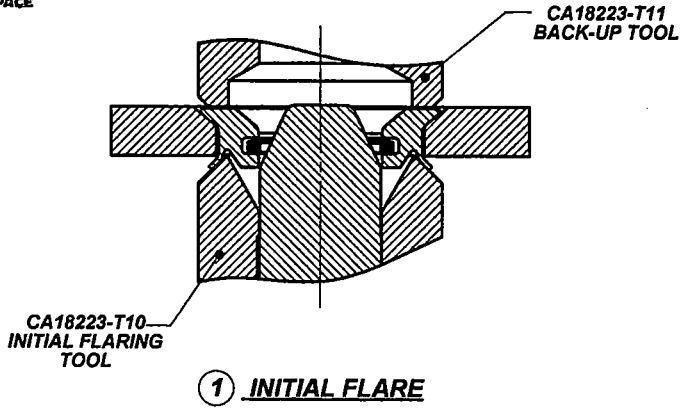
APPROVED DATE 5 SEP 90	CURRENT DESIGN ACTIVITY: Howmet Fastening Systems (HFS)	TITLE: GROMMET ASSEMBLY STUD HOLD-OUT	CURRENT DESIGN ACTIVITY: CAGE CODE: 29372
	REV. LETTER DATE M 18 MAY 20		SALES DRAWING NO.
DAF NUMBER 119344	TRIDAIR PRODUCTS 3000 W. LOMITA BLVD. TORRANCE, CA. 90505	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES:	CA18223-()
S4119	ANGLES = 13° DECIMALS .XX = ±.02 XXX = ±.010		SHEET 2 OF 3



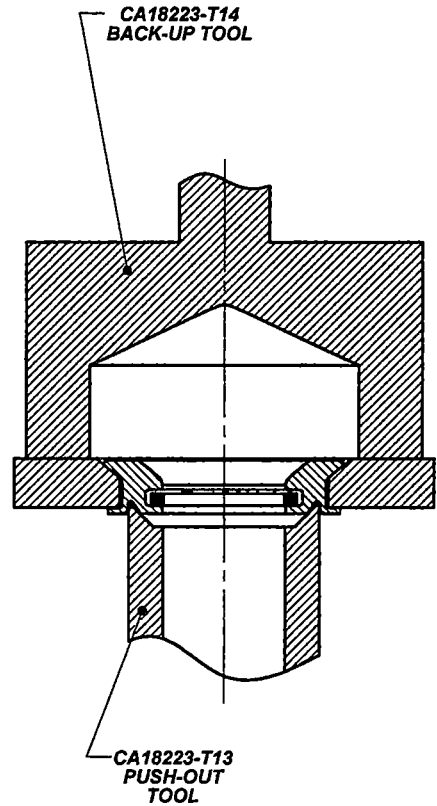
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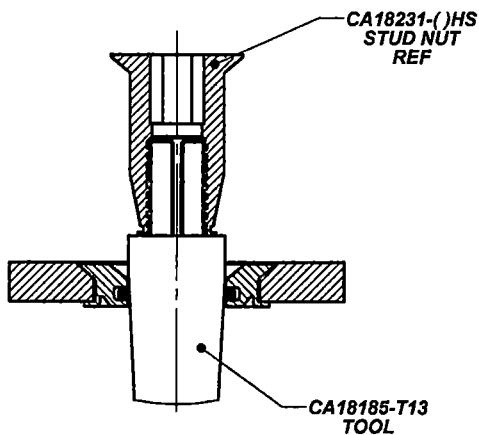
GROMMET INSTALLATION



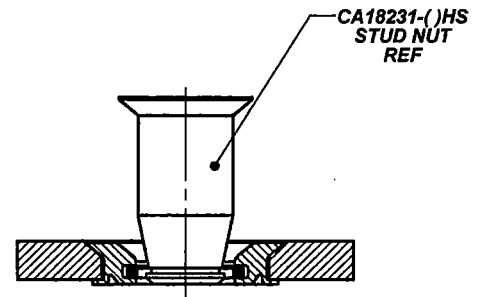
GROMMET REMOVAL



STUD INSTALLATION



STUD IN HOLD-OUT POSITION



ORIGINAL DESIGN ACTIVITY: CAGE CODE 29372, TRIDAIR PRODUCTS

APPROVED DATE

5 SEP 90

REV. LETTER DATE

M 18 MAY 20

DAF NUMBER

119344

CURRENT DESIGN ACTIVITY:

Howmet Fastening
Systems (HFS)

TORRANCE OPERATIONS

TRIDAIR PRODUCTS
3000 W. LOMITA BLVD.
TORRANCE, CA. 90505

TITLE:

**GROMMET ASSEMBLY
STUD HOLD-OUT**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES & ASME Y14.5M TOLERANCES:

ANGLES = ±3°
DECIMALS .XX = ±.02
XXX = ±.010

CURRENT DESIGN ACTIVITY:

CAGE CODE: 29372

SALES DRAWING NO.

CA18223-()

SHEET 3 OF 3

S41119