SAE International™

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J1802-1

REV. APR2003

Issued 1996-10
Revised 2003-04

Superseding J1802-1 OCT1996

Test Component Specifications

TABLE OF CONTENTS

1. ***Scope—***This SAE Recommended Practice contains the reference information for SAE J1802.

2. ***References***

2.1 **Applicable Publication—**The following publication forms a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1802—Brake Block Effectiveness Rating

3. ***Notes***

3.1 **Marginal Indicia—**The change bar (l) located in the left margin is for the convenience of the user in locating areas where revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

PREPARED BY THE SAE TRUCK AND BUS FOUNDATION BRAKE SUBCOMMITTEE
OF THE SAE TRUCK AND BUS BRAKE COMMITTEE

TO PLACE A DOCUMENT ORDER:
Tel: 877-606-7323 (inside USA and Canada)
Tel: 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: custsvc@sae.org
SAE WEB ADDRESS: http://www.sae.org

APPENDIX A

BRAKE ASSEMBLY MOUNTING/DYNAMOMETER STUB AXLE FIXTURE

A.1 Brake Assembly Mounting/Dynamometer Stub Axle Fixture—See Figure A1.

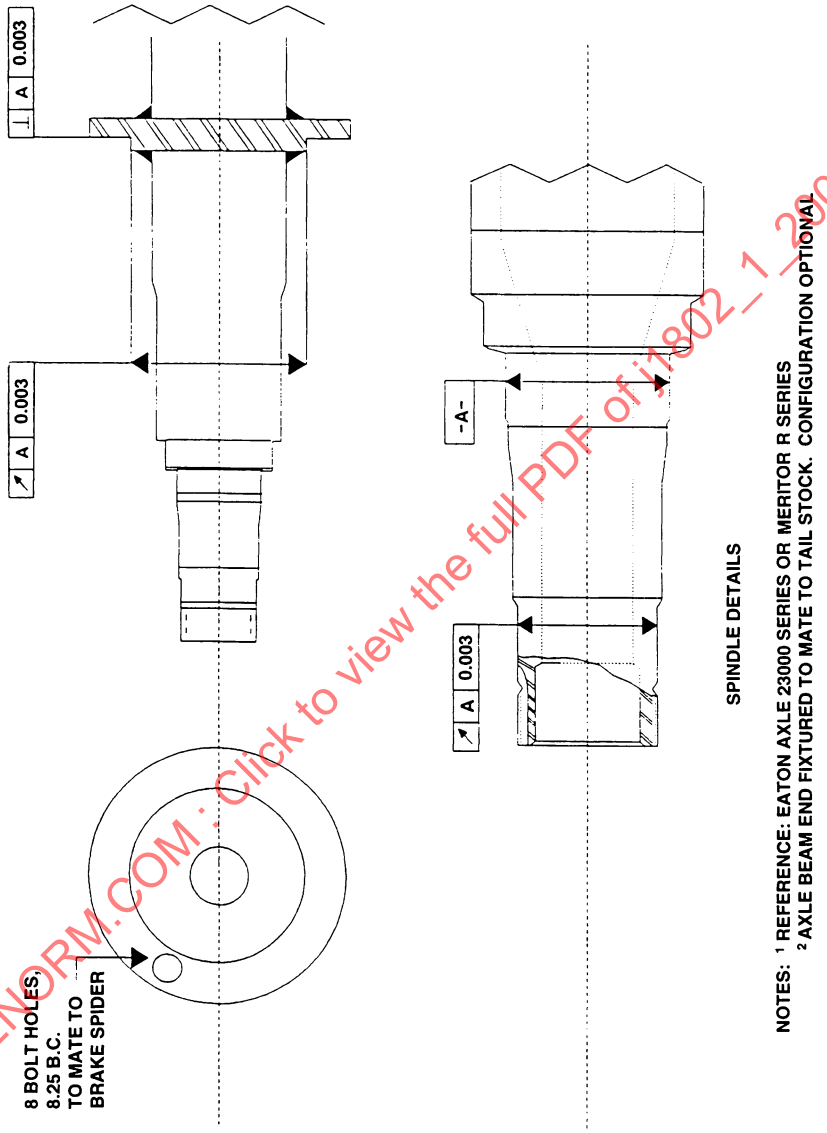


FIGURE A1—BRAKE ASSEMBLY MOUNTING/DYNAMOMETER STUB AXLE FIXTURE

APPENDIX B

COMPONENTS PART LIST

B.1 Components Part List—See Table B1.

TABLE B1—COMPONENTS PART LIST(1)

Component	SAE P/N(2)	Reference
1. Brake Drum (See Figure C1)	RM—	Gunite 3656
2. Hub (See Figure C2)	RM—	Gunite HR-6540
3. Spider (See Figure C3)	RM—	Meritor A-3211-H-996
4. Camshaft Bushings (See Figure C3)	RM—	Meritor 1225-N-378
5. Brake Shoe (See Figure C4)	RM—	Meritor A-3722-D-1959
6. Brake Shoe Roller (See Figure C4)	RM—	Meritor 1199-U-3765
7. Anchor Pin (See Figure C5)	RM—	Meritor 1259-R-252
8. Lining Blocks		
—Cam (See Figure C6)	RM—	FMSI 4515E
—Anchor (See Figure C7)	RM—	FMSI 4515E
9. Bracket Assembly (See Figure C3)	RM—	Meritor A7-3299-R-1552
10. Camshaft (See Figures C8 and C9)	RM—	Eaton 70306
11. Air Chamber (See Figure C10)	RM—	Bendix 108492 (Rotochamber)
12. Return Spring (See Figure C11)	RM—	Meritor 2258-R-590
13. Slack Adjuster (See Figure C12)	RM—	Bendix 278014
14. Anchor Pin Bushings (See Figure C3)	RM—	Meritor 1225-B-496 (Spider) 1225-F-266 (Shoe) 1225-N-352 (Shoe)

1. The above material is available directly from SAE and is to be used exclusively for SAE J1802 testing.
2. Reference P/Ns are for reference only and cannot be used for SAE J1802 testing: RM—R/Ns are similar to the reference P/Ns, but are distinctly different due to unique specifications and dimensions.

APPENDIX C

COMPONENT SKETCHES

C.1 Component Sketches—See Figures C1 through C12.

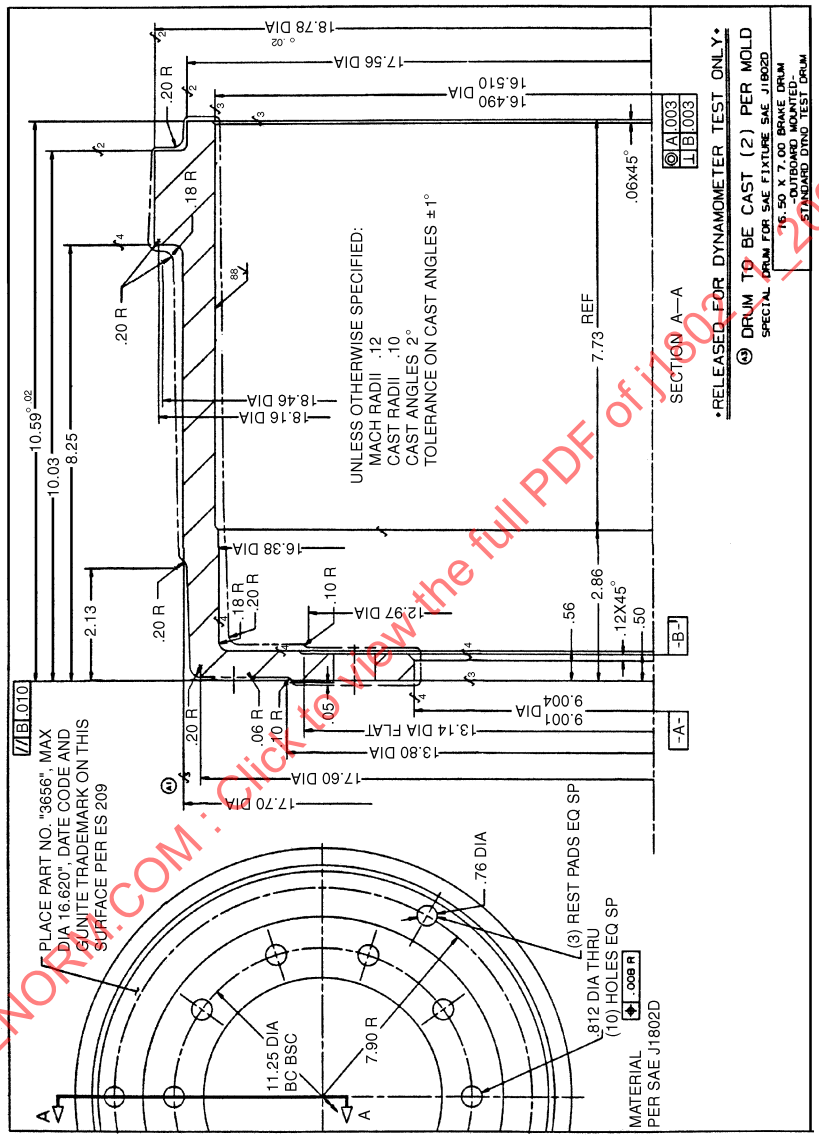


FIGURE C1—BRAKE DRUM

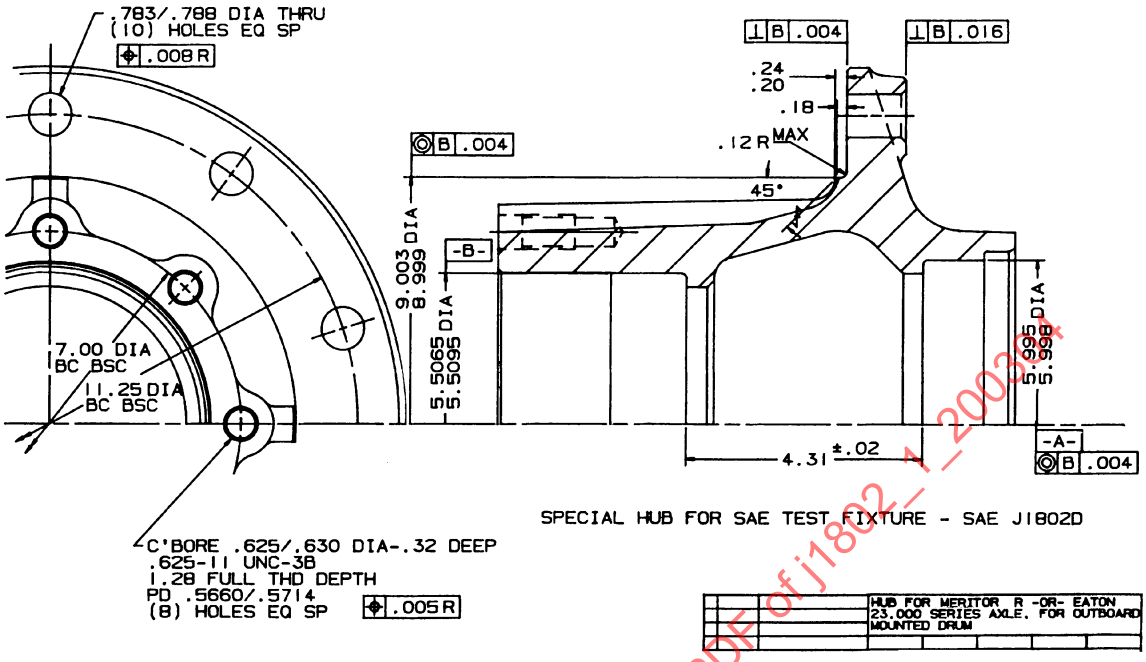
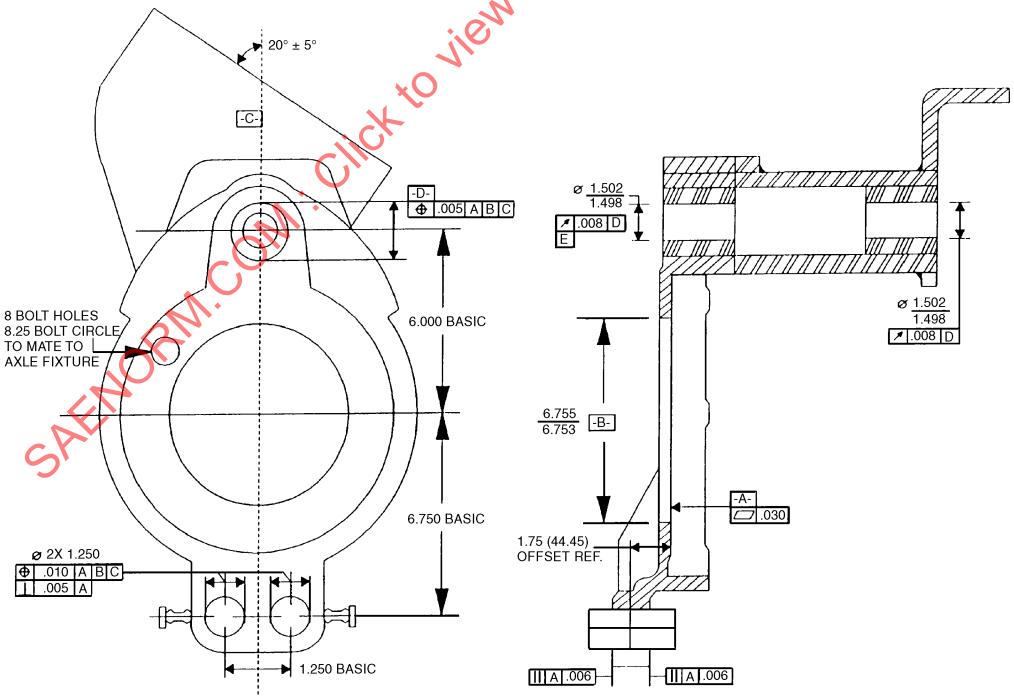


FIGURE C2—HUB



NOTES: [1]SPIDER REFERENCE CASTING MERITOR P/N A-3211-H-996 OR EQUIVALENT
[2] BRACKET ASSEMBLY REFERENCE MERITOR P/N A7-3299-R-1552 OR EQUIVALENT

FIGURE C3—HUB

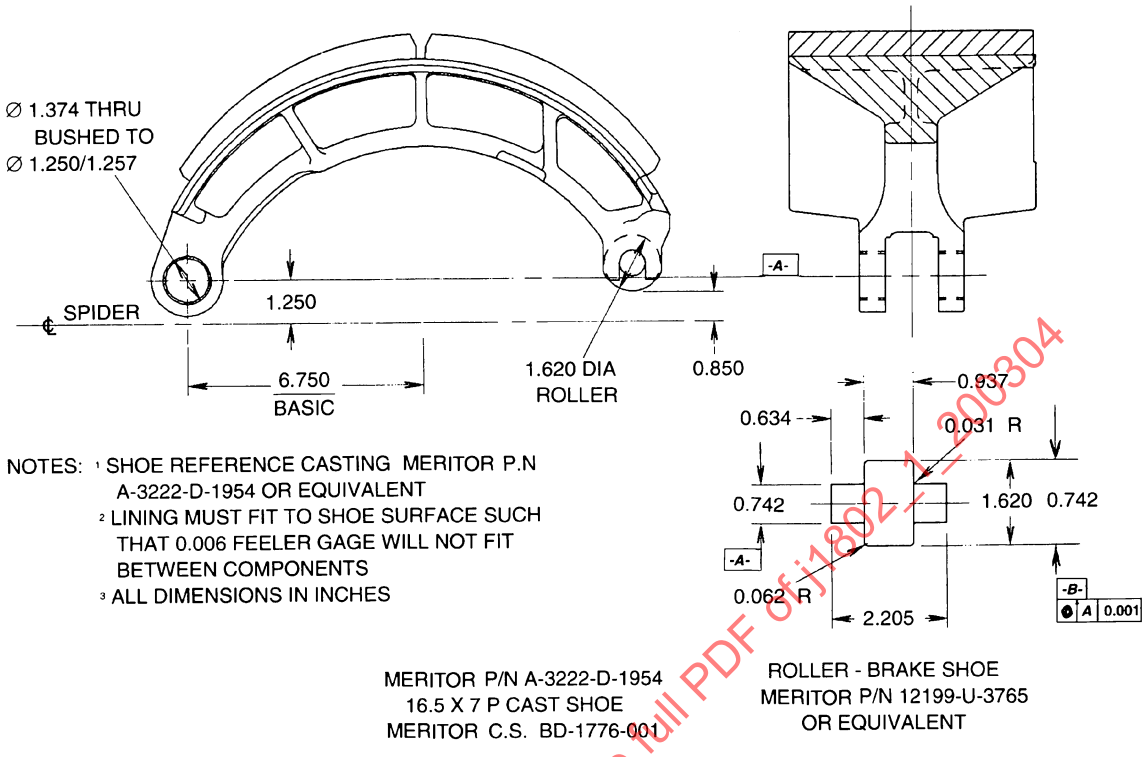


FIGURE C4—BRAKE SHOE AND ROLLER

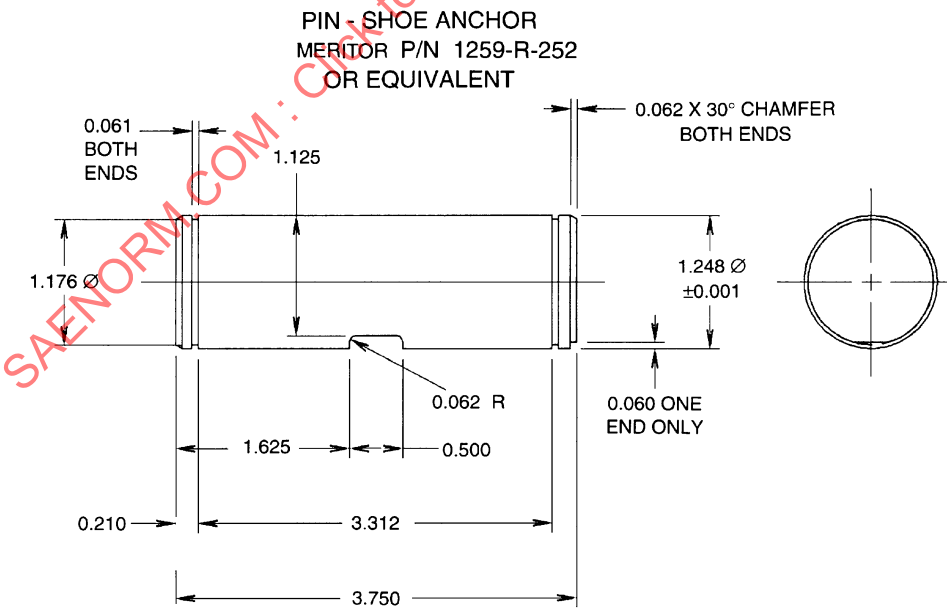


FIGURE C5—ANCHOR PIN

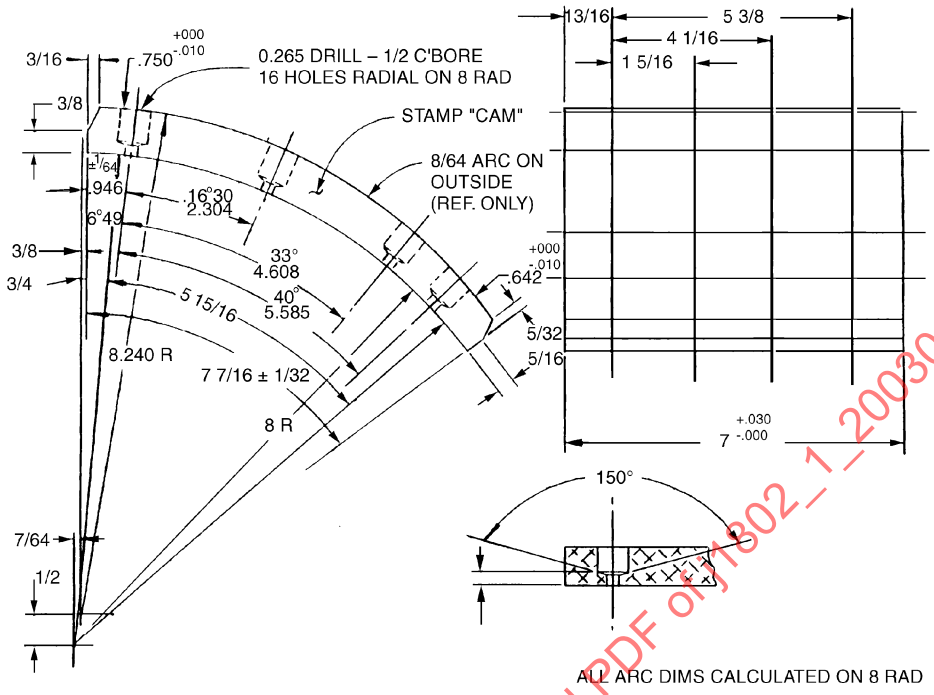


FIGURE C6—BRAKE BLOCK (CAM) FMSI NO. 4515E

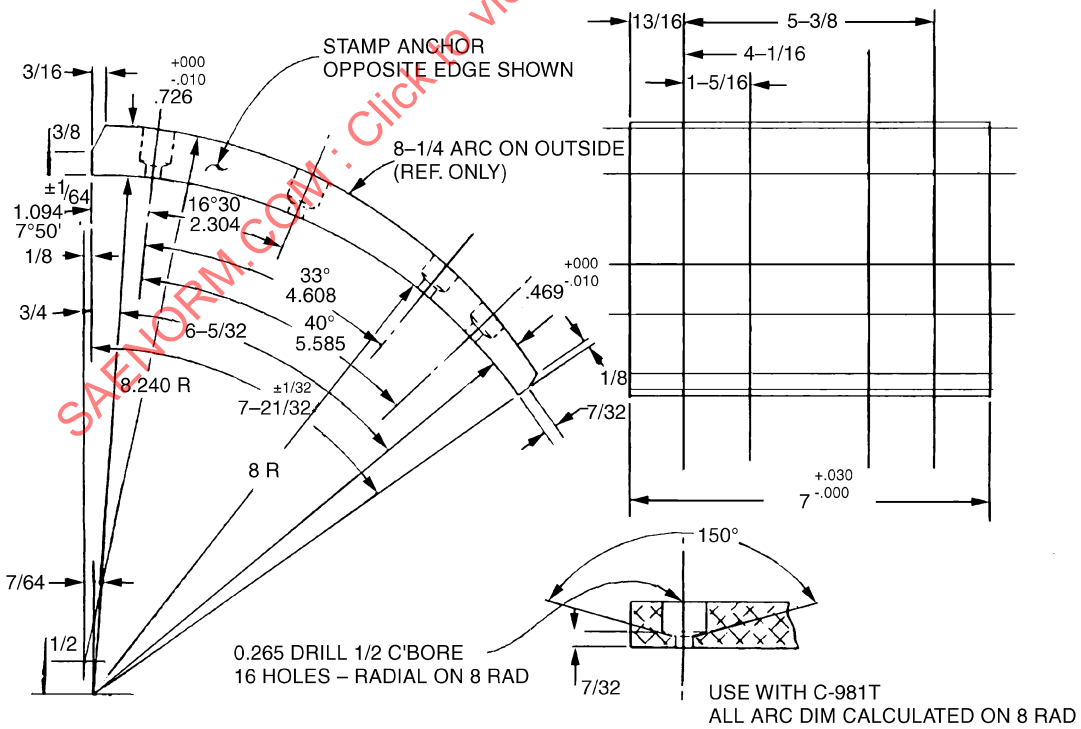
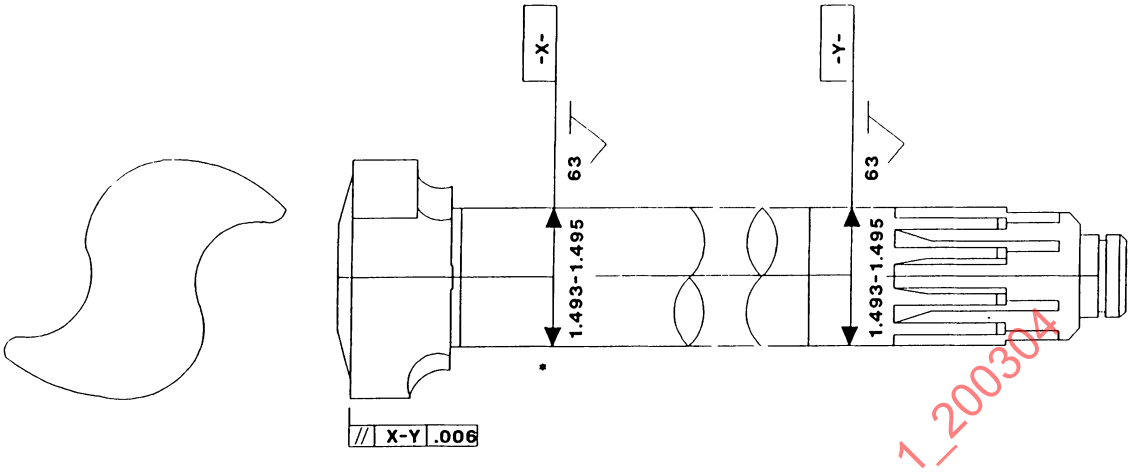


FIGURE C7—BRAKE BLOCK (ANCHOR) FMSI NO. 4515E



NOTES: [1] REFERENCE EATON P/N 70306 OR EQUIVALENT
[2] ALL DIMENSIONS IN INCHES

FIGURE C8—CAMSHAFT

⊖ CAMSHAFT ROTATION		DIM A WITH .625R FOLLOWER
LOBE ONE	LOBE TWO	
0	180	1.186
5	185	1.228
10	190	1.270
15	195	1.313
20	200	1.355
25	205	1.399
30	210	1.442
35	215	1.485
40	220	1.529
45	225	1.573
50	230	1.617
55	235	1.661
60	240	1.705
65	245	1.749
70	250	1.793
75	255	1.838
80	260	1.882
85	265	1.927
90	270	1.972
95	275	2.016
100	280	2.061
105	285	2.106
110	290	2.151
115	295	2.196
120	300	2.241
125	305	2.286
130	310	2.331
135	315	2.376
140	320	2.421
145	325	2.467
150	330	2.512

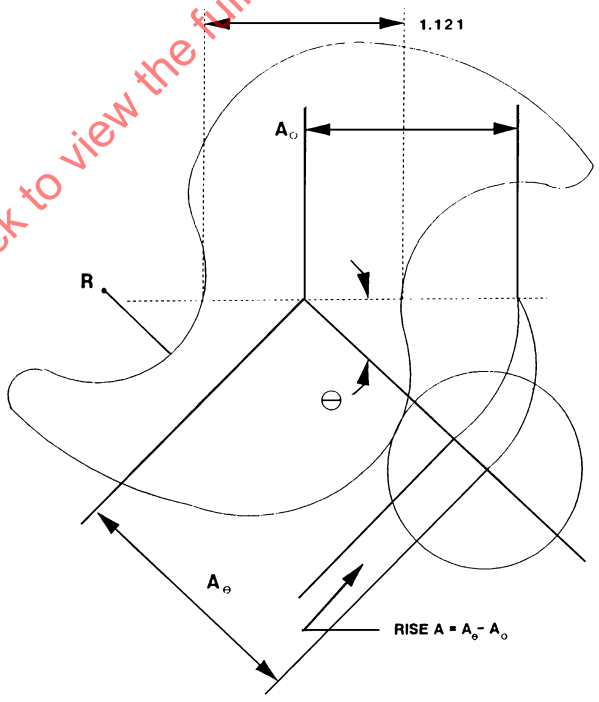


FIGURE C9—CAM PROFILE