

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J1802-1

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TEST COMPONENT SPECIFICATIONS

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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

PREPARED BY THE SAE TRUCK AND BUS FOUNDATION BRAKE SUBCOMMITTEE

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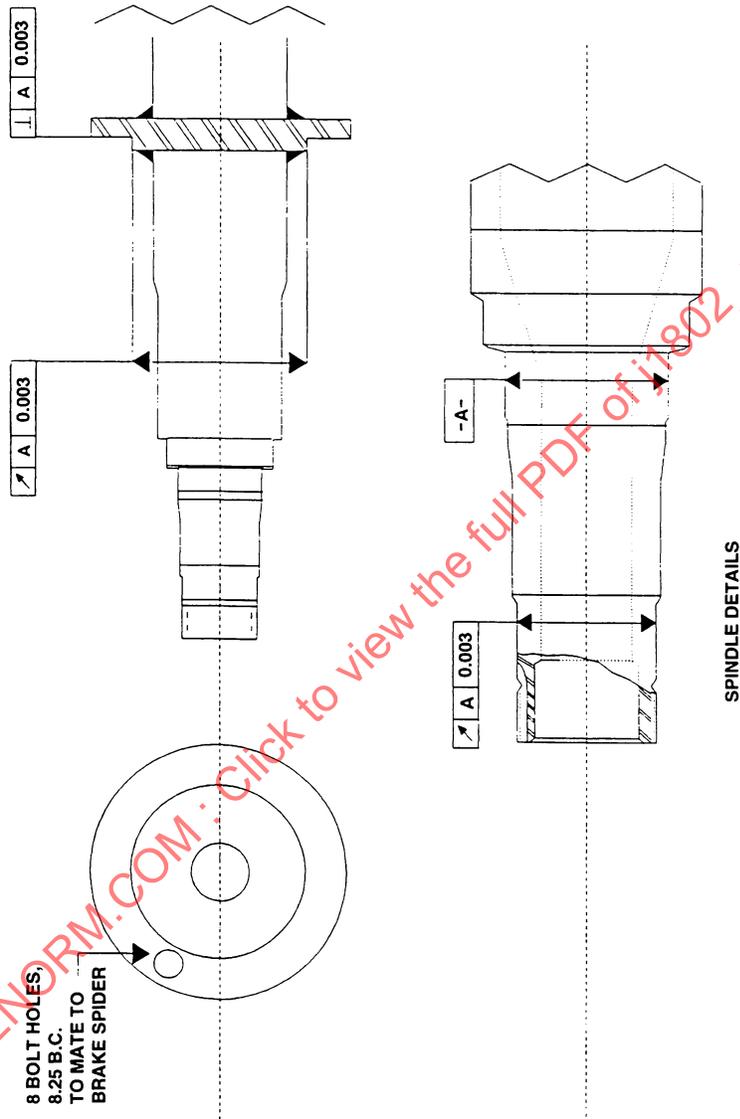
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APPENDIX A

BRAKE ASSEMBLY MOUNTING/DYNAMOMETER STUB AXLE FIXTURE

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



NOTES: ¹ REFERENCE: EATON AXLE 23000 SERIES OR ROCKWELL R SERIES
² AXLE BEAM END FIXTURE TO MATE TO TAIL STOCK. CONFIGURATION OPTIONAL

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— | Rockwell A-3211-H-996 |
| 4. Camshaft Bushings (See Figure C3) | RM— | Rockwell 1225-N-378 |
| 5. Brake Shoe (See Figure C4) | RM— | Rockwell A-3722-D-1959 |
| 6. Brake Shoe Roller (See Figure C4) | RM— | Rockwell 1199-U-3765 |
| 7. Anchor Pin (See Figure C5) | RM— | Rockwell 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— | Rockwell 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— | Rockwell 2258-R-590 |
| 13. Slack Adjuster (See Figure C12) | RM— | Bendix 278014 |
| 14. Anchor Pin Bushings (See Figure C3) | RM— | Rockwell 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.

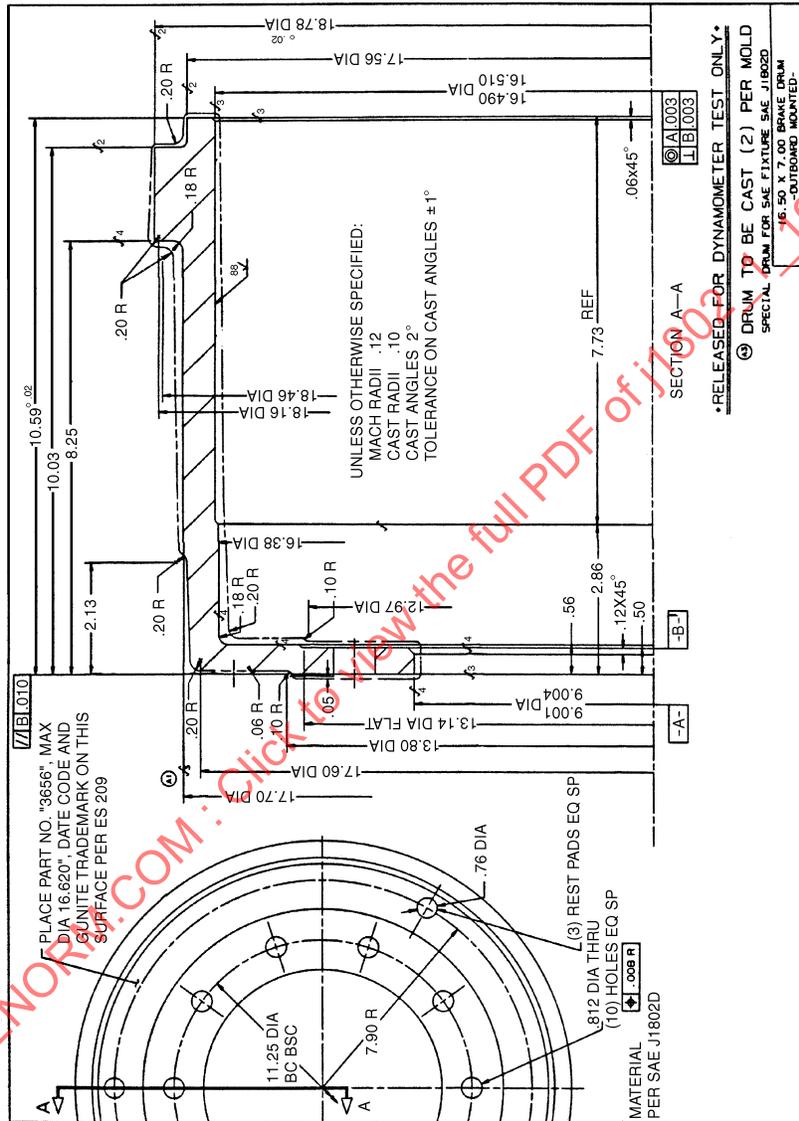


FIGURE C1—BRAKE DRUM

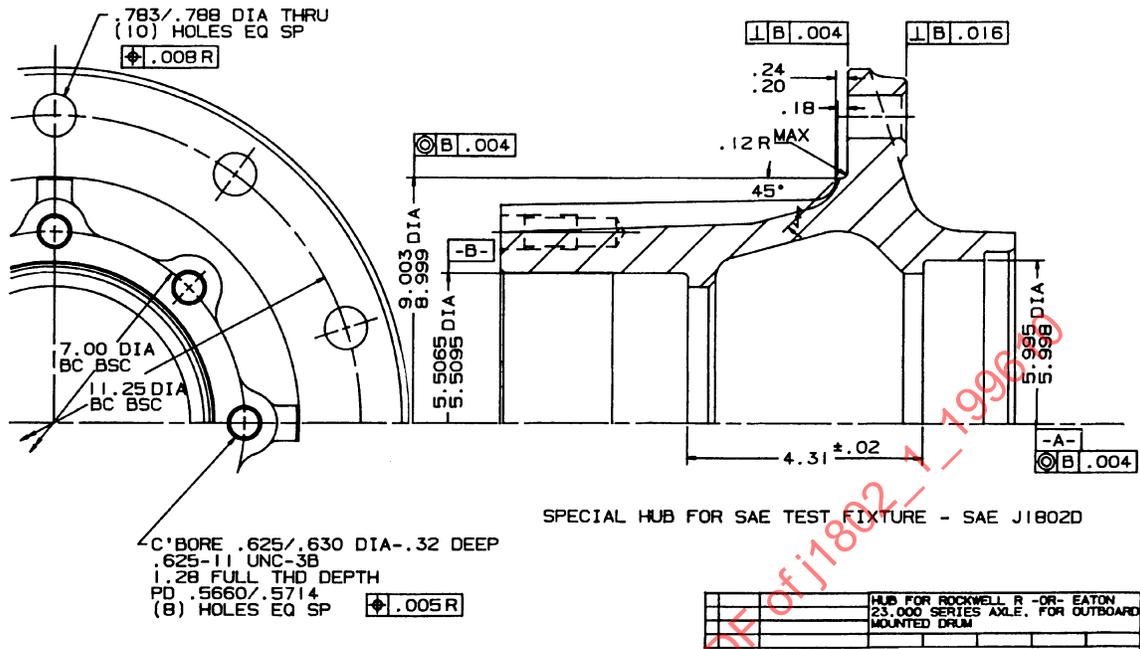
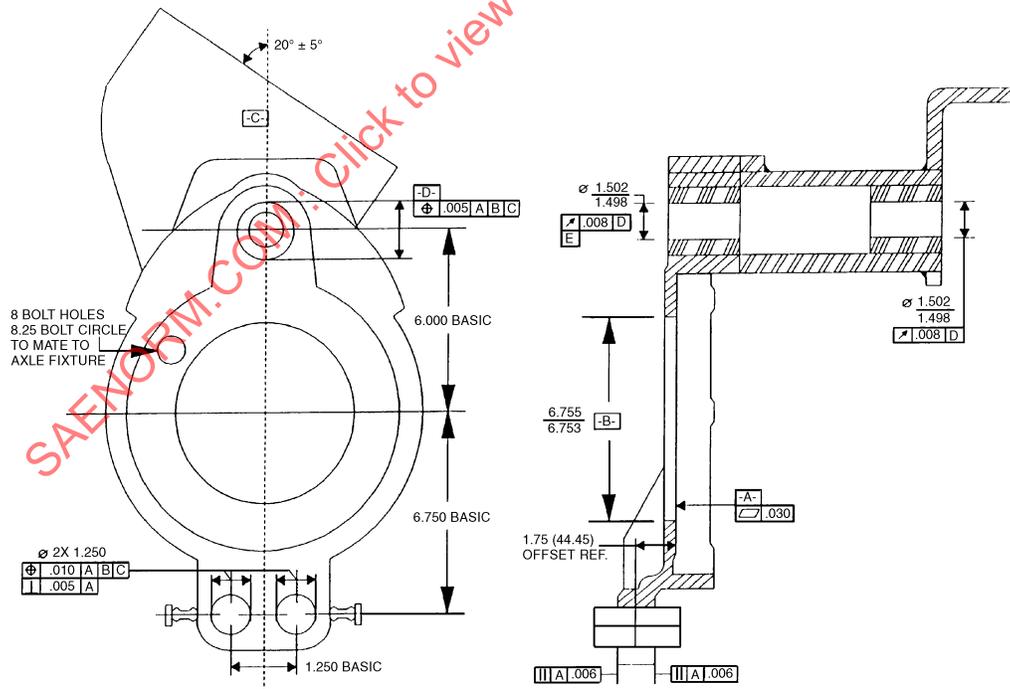


FIGURE C2—HUB



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

FIGURE C3—HUB

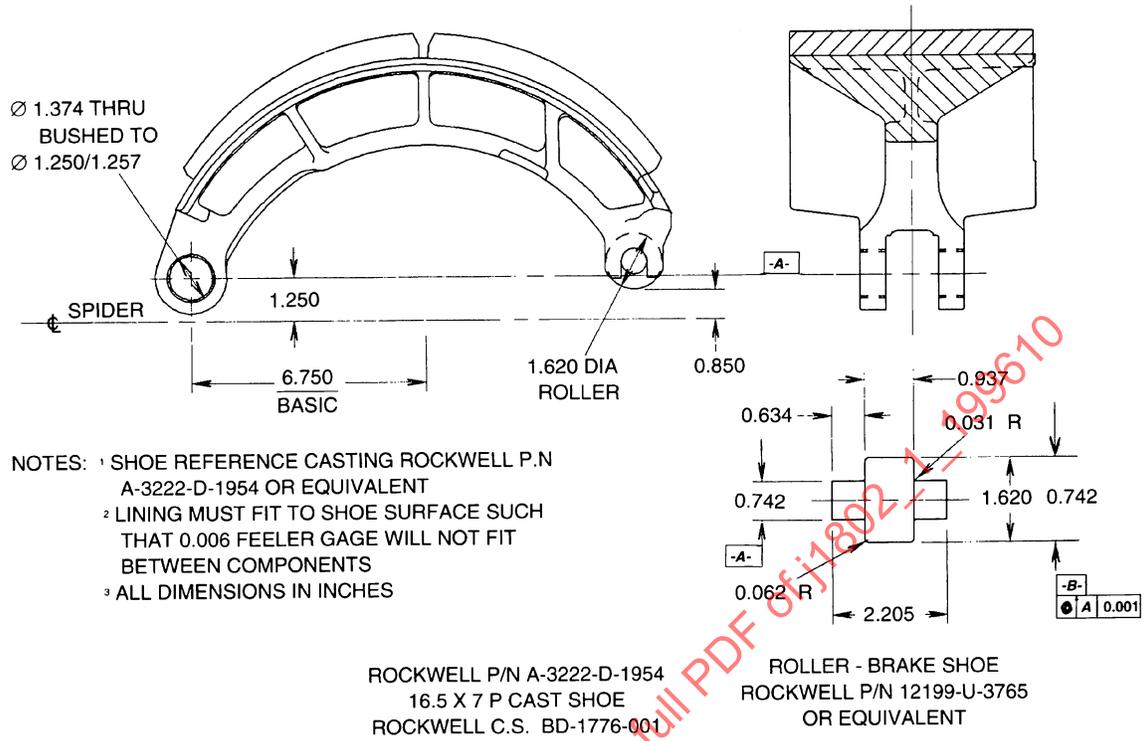


FIGURE C4—BRAKE SHOE AND ROLLER

PIN - SHOE ANCHOR
 ROCKWELL P/N 1259-R-252
 OR EQUIVALENT

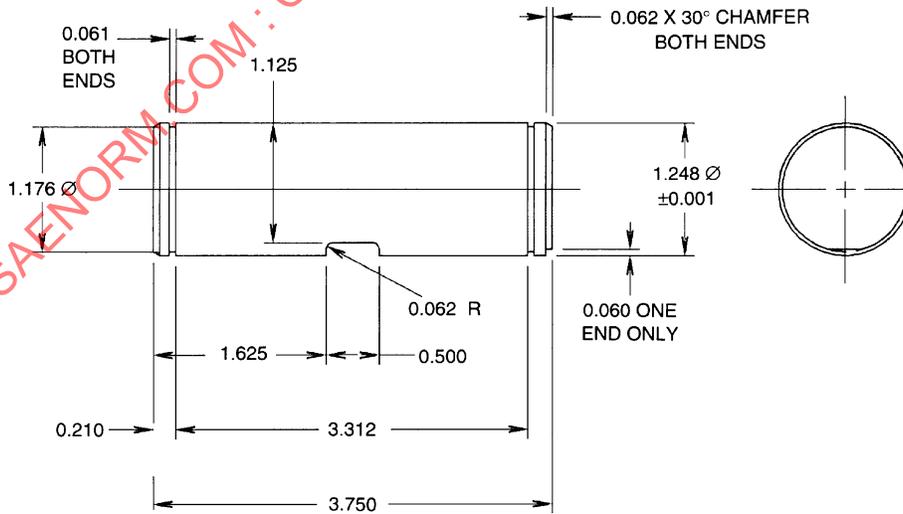
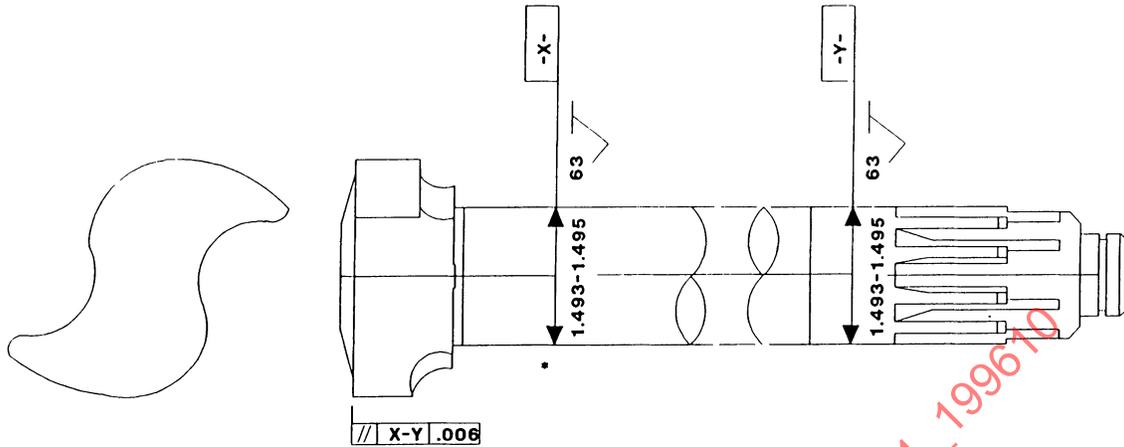


FIGURE C5—ANCHOR PIN



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 |

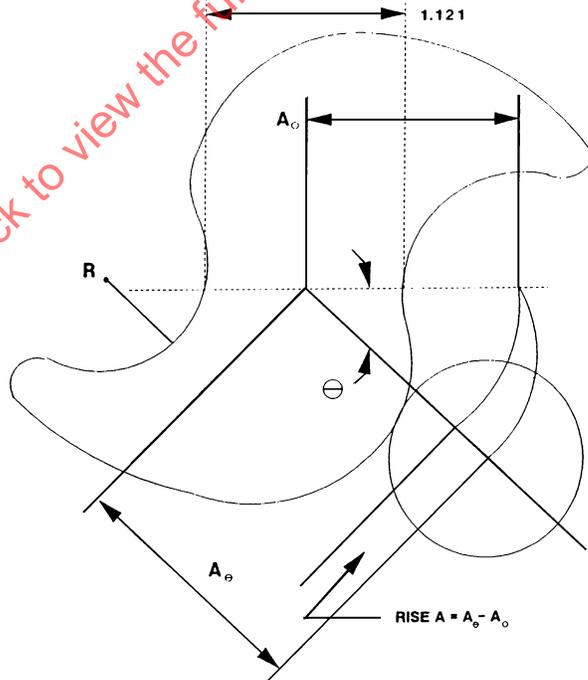


FIGURE C9—CAM PROFILE