

Figure 4-7. Blade Dimensions, Model 1A170

Table 4-9. BLADE DIMENSIONS, 1A170
(NEW BLADES)

| Station (Fig. 4-7) | Width (inches) | | Thickness (inches) | | Edge Alignment (inches) | | Face Alignment (inches) | |
|-----------------------|-------------------|-------|-----------------------|-------|----------------------------|-------|----------------------------|-------|
| | Min | Max | Min | Max | Min | Max | Min | Max |
| 5 | 5.353 | 5.447 | 2.367 | 2.417 | 2.469 | 2.531 | 1.179 | 1.241 |
| 9 | 5.435 | 5.529 | 1.170 | 1.220 | 2.419 | 2.481 | 0.493 | 0.555 |
| 12 | 5.558 | 5.652 | 0.870 | 0.920 | 2.474 | 2.536 | 0.341 | 0.403 |
| 15 | 5.592 | 5.686 | 0.753 | 0.803 | 2.489 | 2.551 | 0.293 | 0.355 |
| 18 | 5.582 | 5.676 | 0.655 | 0.705 | 2.485 | 2.547 | 0.252 | 0.314 |
| 24 | 5.363 | 5.457 | 0.490 | 0.540 | 2.387 | 2.449 | 0.183 | 0.245 |
| 30 | 4.659 | 4.722 | 0.352 | 0.402 | 2.065 | 2.127 | 0.126 | 0.188 |
| 33 | 4.079 | 4.142 | 0.280 | 0.330 | 1.806 | 1.868 | 0.096 | 0.158 |
| 36 | 3.419 | 3.482 | 0.207 | 0.257 | 1.511 | 1.573 | 0.066 | 0.128 |

Table 4-10. SECTION ANGLES, 1A170
(NEW BLADES)

| Station (Fig. 4-7) | Section Angle (degrees) at Specified Pitch (inches) | | | | | | | | | | | | | | | | | |
|-----------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 15 | 22.4 | 22.7 | 22.8 | 23.0 | 23.1 | 23.1 | 23.1 | 23.1 | 23.4 | 23.7 | 24.0 | 24.3 | 24.6 | 24.9 | 25.1 | 25.3 | 25.5 | 25.7 |
| 18 | 19.3 | 19.6 | 19.9 | 20.2 | 20.4 | 20.7 | 21.0 | 21.3 | 21.6 | 21.9 | 22.2 | 22.5 | 22.8 | 23.1 | 23.4 | 23.7 | 24.0 | 24.3 |
| 24 | 15.9 | 16.2 | 16.5 | 16.8 | 17.0 | 17.3 | 17.6 | 17.9 | 18.2 | 18.5 | 18.8 | 19.1 | 19.4 | 19.7 | 20.0 | 20.3 | 20.6 | 20.9 |
| 30 | 13.0 | 13.3 | 13.6 | 13.9 | 14.1 | 14.4 | 14.7 | 15.0 | 15.3 | 15.6 | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 | 18.0 |
| 33 | 11.7 | 12.0 | 12.3 | 12.6 | 12.8 | 13.1 | 13.4 | 13.7 | 14.0 | 14.3 | 14.6 | 14.9 | 15.2 | 15.5 | 15.8 | 16.1 | 16.4 | 16.7 |
| 36 | 10.6 | 10.9 | 11.2 | 11.5 | 11.7 | 12.0 | 12.3 | 12.6 | 12.9 | 13.2 | 13.5 | 13.8 | 14.1 | 14.4 | 14.7 | 15.0 | 15.3 | 15.6 |

NOTE: Angle tolerances are ± 0.25 degrees for stations 15, 18, and ± 0.20 degrees for stations 24, 30, 33, 36. Like stations on both blades are not to vary more than 0.20 degrees from each other.

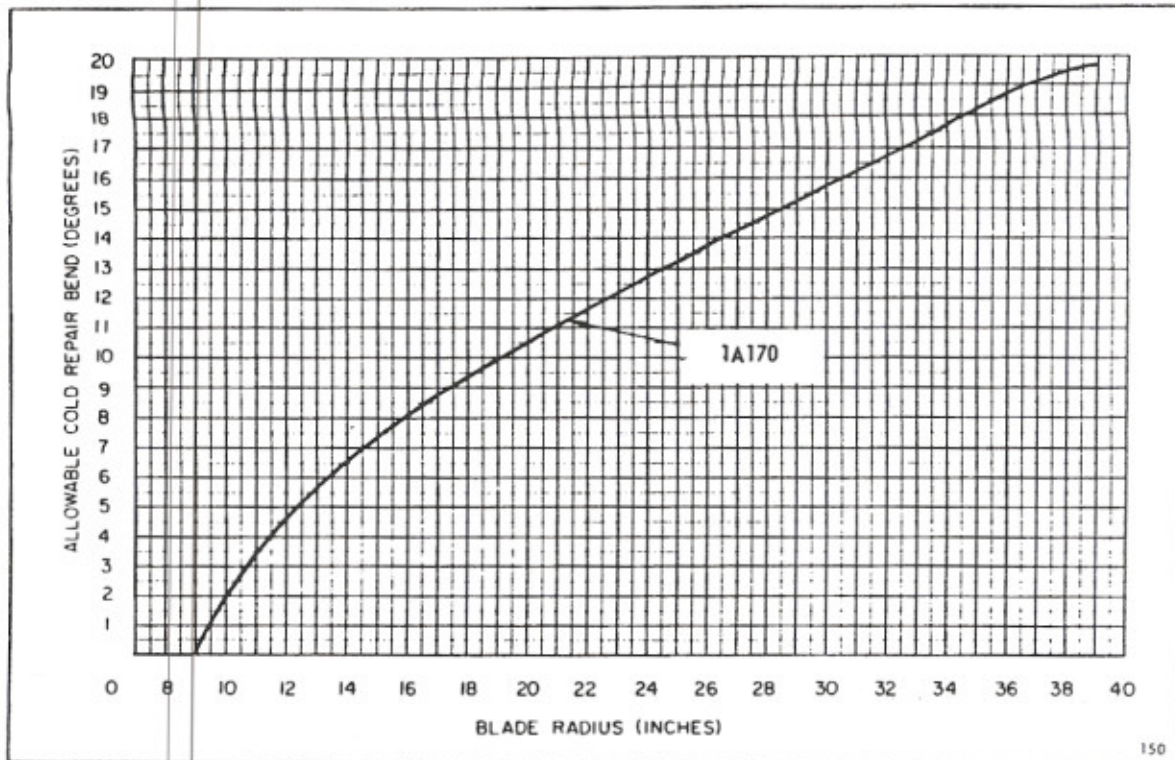


Figure 4-8. Maximum Allowable Bend for Cold Repair, 1A170

Table 4-11. MINIMUM PERMISSIBLE BLADE WIDTH & THICKNESS, 1A170 (FOR REPAIR)

| Station (Fig. 4-7) | Width (Inches) at Propeller Diameter | | | | |
|-----------------------|--------------------------------------|-------|-------|-------|-------|
| | 71 | 73 | 74 | 76 | 78 |
| 5 | 5.245 | 5.245 | 5.245 | 5.245 | 5.245 |
| 9 | 5.315 | 5.315 | 5.315 | 5.315 | 5.315 |
| 12 | 5.425 | 5.425 | 5.425 | 5.425 | 5.430 |
| 15 | 5.450 | 5.445 | 5.450 | 5.450 | 5.455 |
| 18 | 5.425 | 5.425 | 5.430 | 5.430 | 5.435 |
| 24 | 5.150 | 5.160 | 5.165 | 5.175 | 5.180 |
| 30 | 4.255 | 4.305 | 4.330 | 4.370 | 4.395 |
| 33 | 3.530 | 3.590 | 3.620 | 3.670 | 3.725 |
| 36 | --- | --- | --- | 2.940 | 2.980 |

| Thickness (Inches) at Propeller Diameter | | | | | |
|--|-------|-------|-------|-------|-------|
| 5 | 2.320 | 2.320 | 2.320 | 2.320 | 2.320 |
| 9 | 1.145 | 1.145 | 1.145 | 1.145 | 1.145 |
| 12 | 0.850 | 0.850 | 0.850 | 0.850 | 0.850 |
| 15 | 0.735 | 0.735 | 0.735 | 0.735 | 0.735 |
| 18 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 |
| 24 | 0.470 | 0.470 | 0.470 | 0.475 | 0.475 |
| 30 | 0.320 | 0.325 | 0.325 | 0.330 | 0.330 |
| 33 | 0.240 | 0.245 | 0.250 | 0.250 | 0.255 |
| 36 | --- | --- | --- | 0.180 | 0.180 |

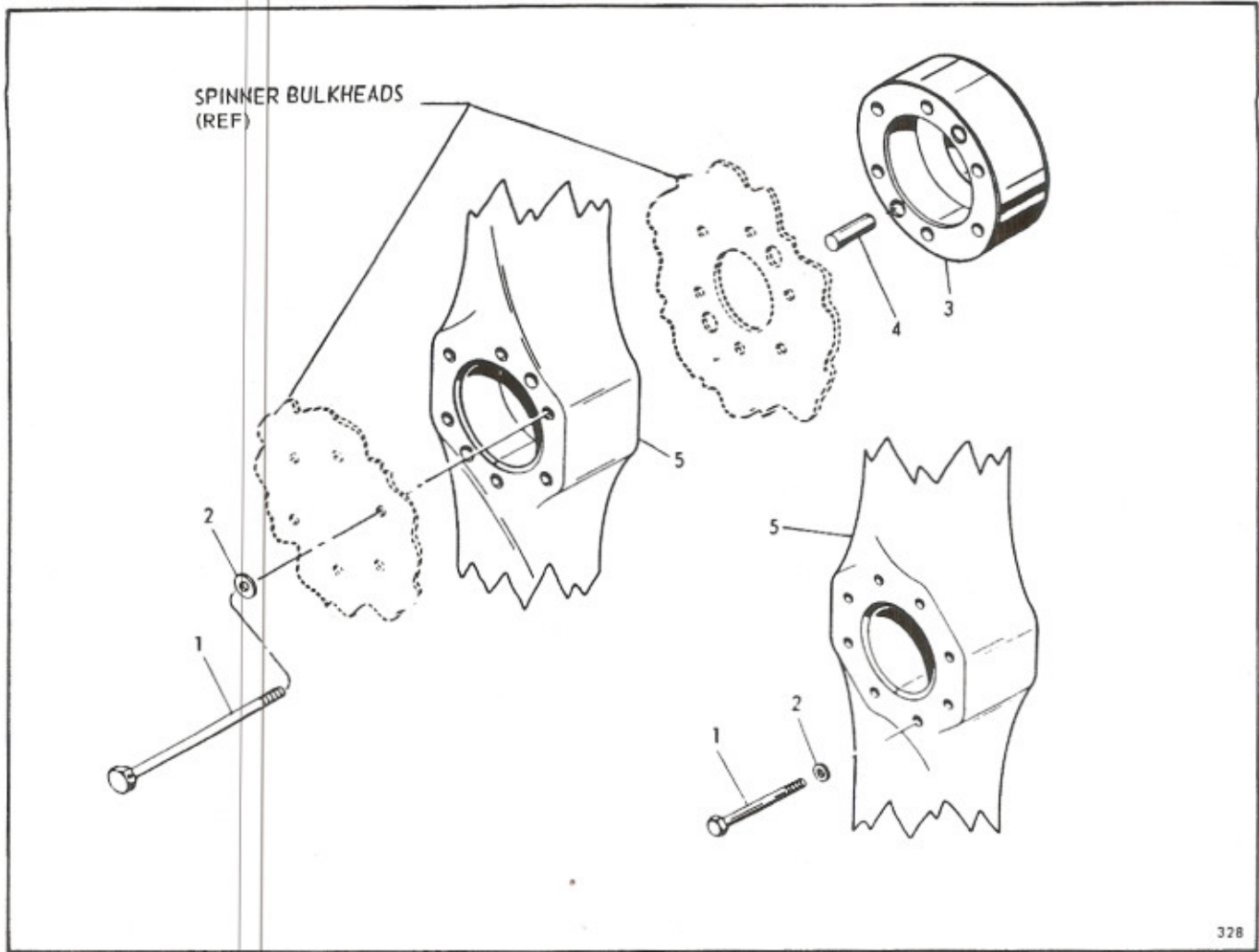


Figure 4-9. Propeller Assemblies, 1A170

| INDEX | PART NO. | DESCRIPTION | QTY | 1A170/CFA | 1A170/DF | 1A170/DM | 1A170/EFA | 1A170/GM | 1A170/L | 1A170/LL | | | |
|-------|---|--|---------|-----------|----------|----------|-----------|----------|---------|----------|--|--|--|
| 1 | *A-2513-10 A-2513-19 A-2513-33 A-2513-39 | Bolt (AP) Bolt (AP) Bolt (AP) Bolt (AP) | | | 8 | 8 | | 6 | 8 | 8 | | | |
| 2 | *A-1638-13 | Washer (AP) | | | 8 | 8 | 6 | 6 | 8 | 8 | | | |
| 3 | A-1638-2 B-4020 B-3637 | Washer (AP) Spacer Spacer | 1 1 | 6 ● | | | 6 ● | | | | | | |
| 4 | A-2973-6 †A-2973-2 | Pin, Dowel Pin, Dowel (Optional) | 2 AR | ● ● | | | ● ● | | | | | | |
| 5 | No Number | Propeller Assy | 1 | ● | ● | ● | ● | ● | ● | ● | | | |

*For Maule M-4, use bolt A-2513-23 and washer A-1638-14.
†May be used for oversize replacement for A-2973-6.