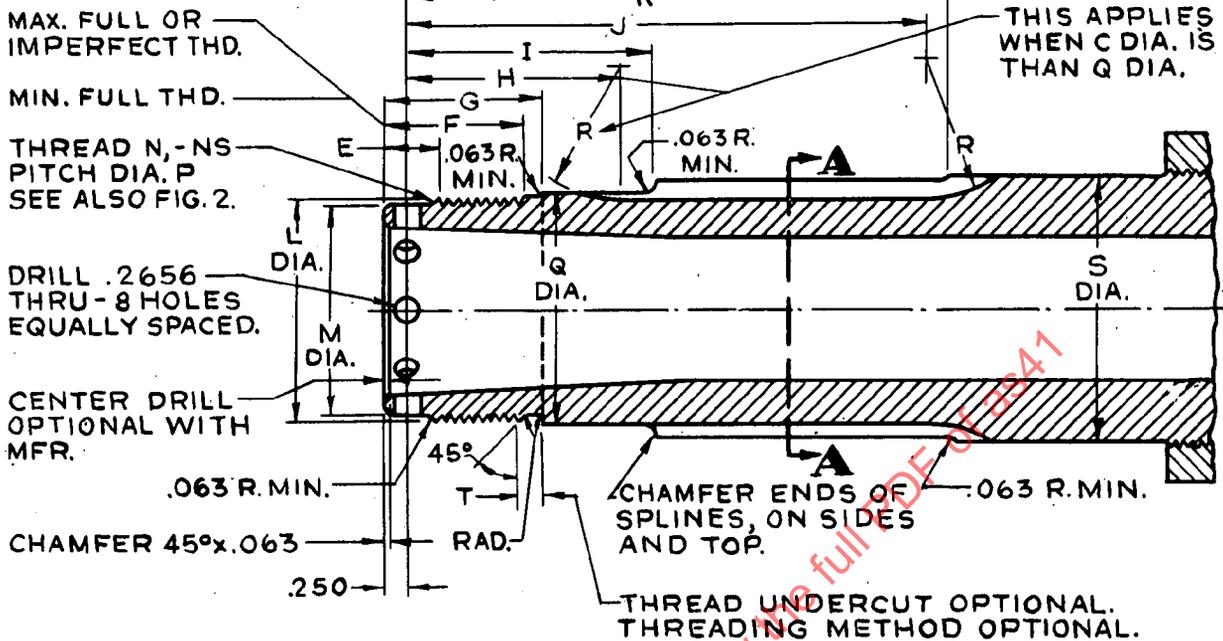
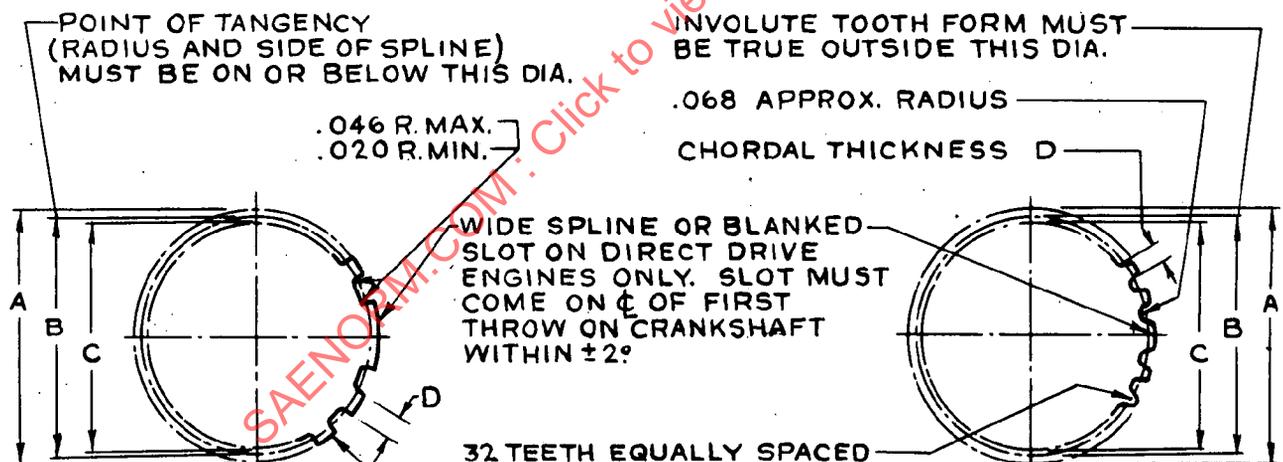


REFERENCE **A**N STANDARD



THIS APPLIES ONLY
WHEN C DIA. IS LESS
THAN Q DIA.



* SECTION **AA**
STRAIGHT SPLINES.

16 SPLINES
EQUALLY SPACED.

* SECTION **AA**
INVOLUTE SPLINES

* ROTATION: - EITHER DIRECTION.

SHAFT SPLINE DATA:
NO. TEETH 32 - D.P. 7/16
PRESSURE ANGLE 30°
PITCH DIA. 4.5714 (THEO)

NOTE: DIAS. A, Q AND S MUST BE CONCENTRIC
WITH EACH OTHER WITHIN .0003 FULL
INDICATOR READING FOR PURPOSES
OF GAGING. INSPECT PRIOR TO SPLINING.

SEE FIG. 2, 3, 4, 5 AND 6 FOR
OTHER APPLICABLE DIMENSIONS.
SEE TABLE I FOR FIG. 1.

FIG. 1

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS $\pm .010$.

REFERENCE **AN** STANDARD

| LET | TOLER. | NO. 10 | NO. 20 | NO. 30 | NO. 40 | NO. 50 |
|-----|------------------|---------------|---------------|---------------|---------------|---------------|
| A | +0.000 -0.002 | 1.992 | 2.367 | 2.617 | 3.117 | 3.804 |
| B | MAX. | 1.781 | 2.156 | 2.406 | 2.875 | 3.554 |
| C | MIN. | 1.689 | 2.064 | 2.314 | 2.783 | 3.462 |
| D | ±0.0008 | 0.1940 | 0.2310 | 0.2570 | 0.3040 | 0.3750 |
| E | | 0.438 | 0.563 | 0.563 | 0.563 | 0.500 |
| F | +0.070 -0.000 | 1.100 | 1.410 | 1.410 | 1.410 | 1.680 |
| G | | 1.188 | 1.500 | 1.500 | 1.500 | 1.780 |
| H | | = | = | = | 2.125 | 2.375 |
| I | | 1.688 | 2.375 | 2.375 | 2.438 | 2.688 |
| J | ±0.030 | 4.500 | 5.250 | 5.625 | 5.250 | 6.000 |
| K | ±0.015 | 5.000 | 5.781 | 6.156 | 5.781 | 6.500 |
| L | +0.000 -0.004 | 1.682 | 2.057 | 2.307 | 2.807 | 3.432 |
| M | | 1.563 | 1.938 | 2.188 | 2.688 | 3.313 |
| N | = | 1.6875 -12 | 2.0625 -12 | 2.3125 -12 | 2.8125 -12 | 3.4375 -12 |
| P | +0.000 -0.003 | 1.631 | 2.006 | 2.256 | 2.756 | 3.381 |
| Q | +0.000 -0.002 | 1.687 | 2.062 | 2.312 | 2.812 | 3.500 |
| R | MAX. | 1.500 | 1.500 | 1.500 | 1.500 | 1.500 |
| S | +0.000 -0.002 | 2.000 | 2.375 | 2.625 | 3.125 | 3.812 |
| T | ±0.030 | 0.170 | 0.170 | 0.170 | 0.170 | 0.170 |

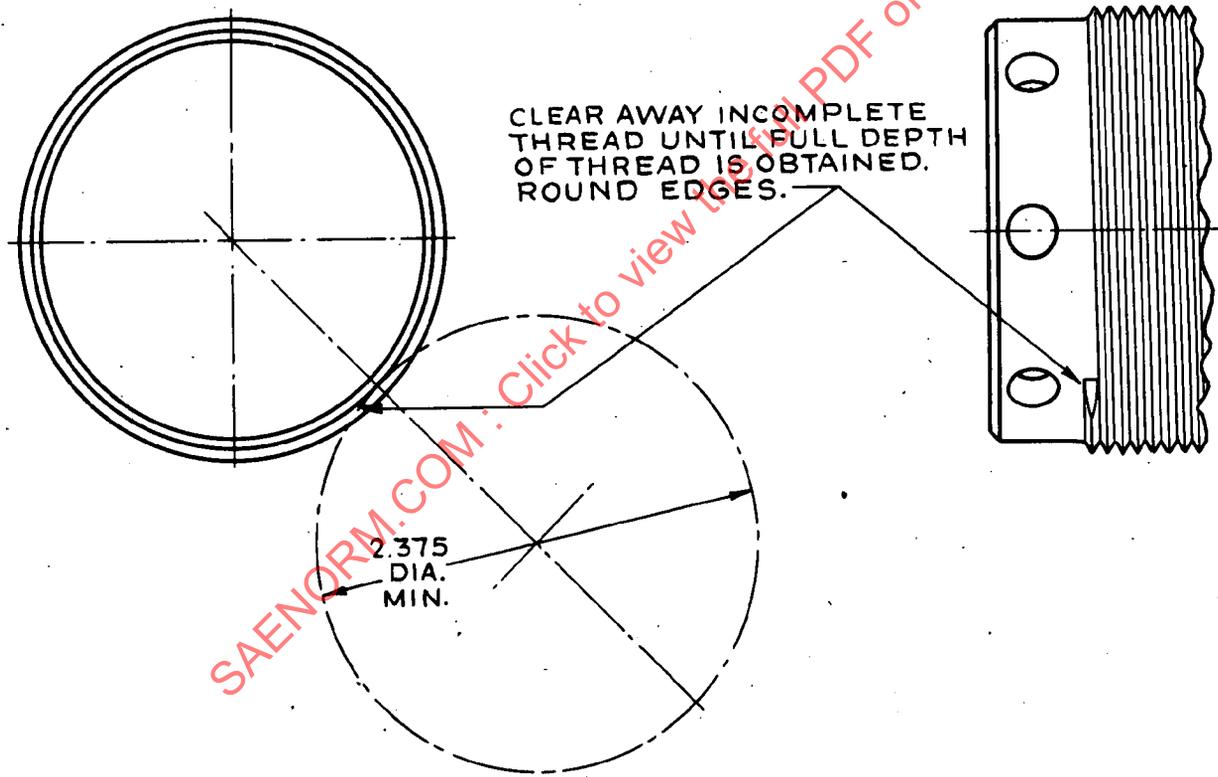
| *TOLER. | *NO. 60 |
|--------------------|-------------|
| +0.000 -0.005 | 4.680 |
| MAX. | 4.436 |
| MIN. | 4.3114 |
| +0.0000 -0.0030 | 0.2233 |
| | 0.563 |
| +0.100 -0.000 | 1.870 |
| | 2.000 |
| | = |
| | 3.063 |
| ±0.030 | 6.687 |
| ±0.015 | 7.062 |
| +0.000 -0.004 | 4.245 |
| | 4.063 |
| = | 4.250 -8 |
| +0.000 -0.005 | 4.1668 |
| +0.000 -0.002 | 4.296 |
| MAX. | 2.000 |
| +0.000 -0.002 | 4.687 |
| ±0.030 | 0.250 |

NOTE: P DIMENSION MAXIMUM LIMIT GIVES MAX. FULL OR IMPERFECT THREAD.
MINIMUM LIMIT GIVES MIN. FULL THREAD.
F DIMENSION DOES NOT APPLY WHEN UNDERCUT IS USED
*INDICATES INVOLUTE SPLINED SHAFT

TABLE I FOR FIG. I

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ± .010

REFERENCE AN STANDARD

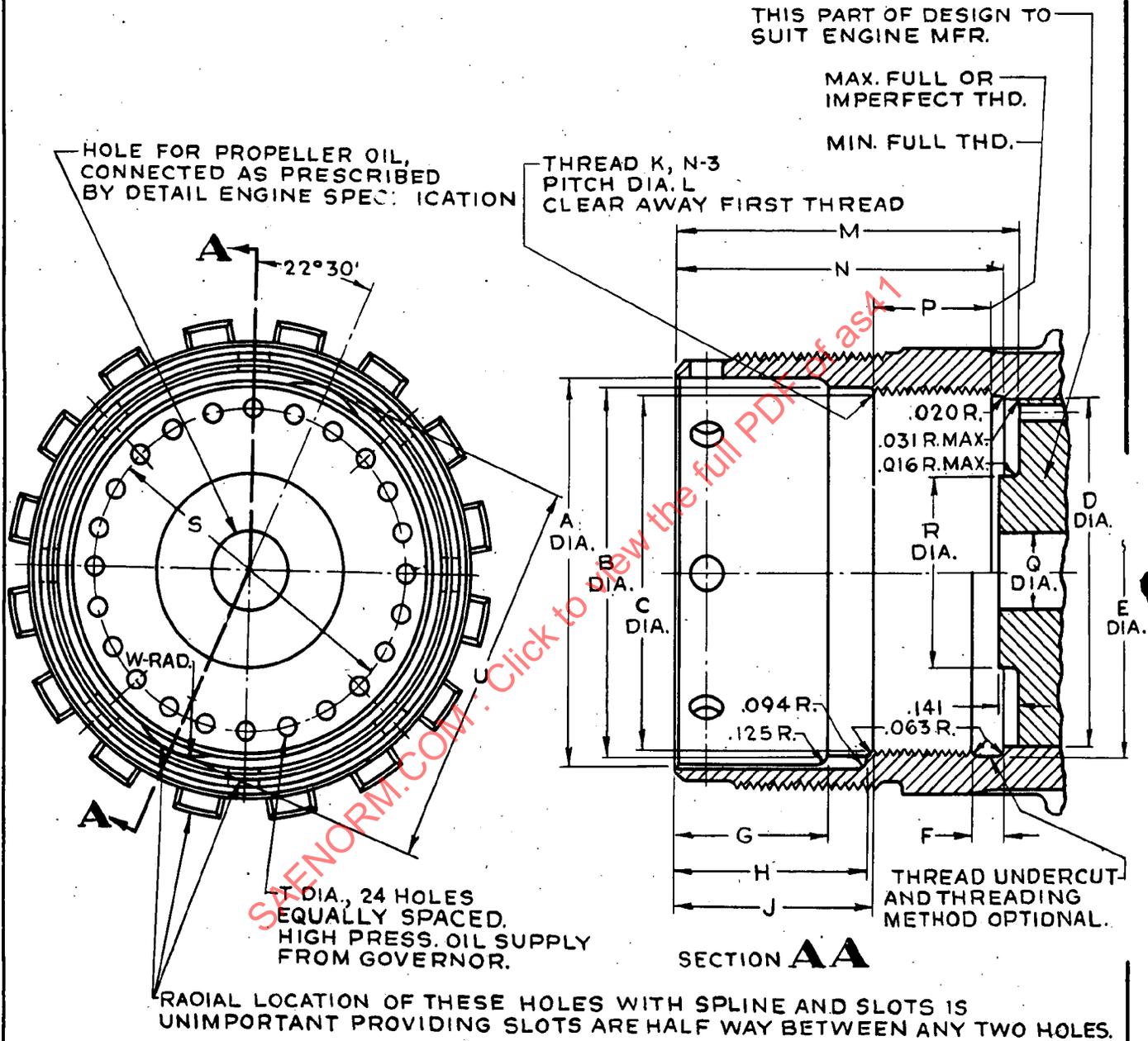


REMOVAL OF LEAD END OF THREAD
FOR SHAFT NOS. 10, 20, 30, 40, 50 AND 60.
METHOD OF REMOVAL OPTIONAL.

FIG. 2

REFERENCE **AN** STANDARD

Page 4 of 8 pages



SEE TABLE 2 FOR FIG. 3.

FIG. 3

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ±.010.

REFERENCE **AN** STANDARD

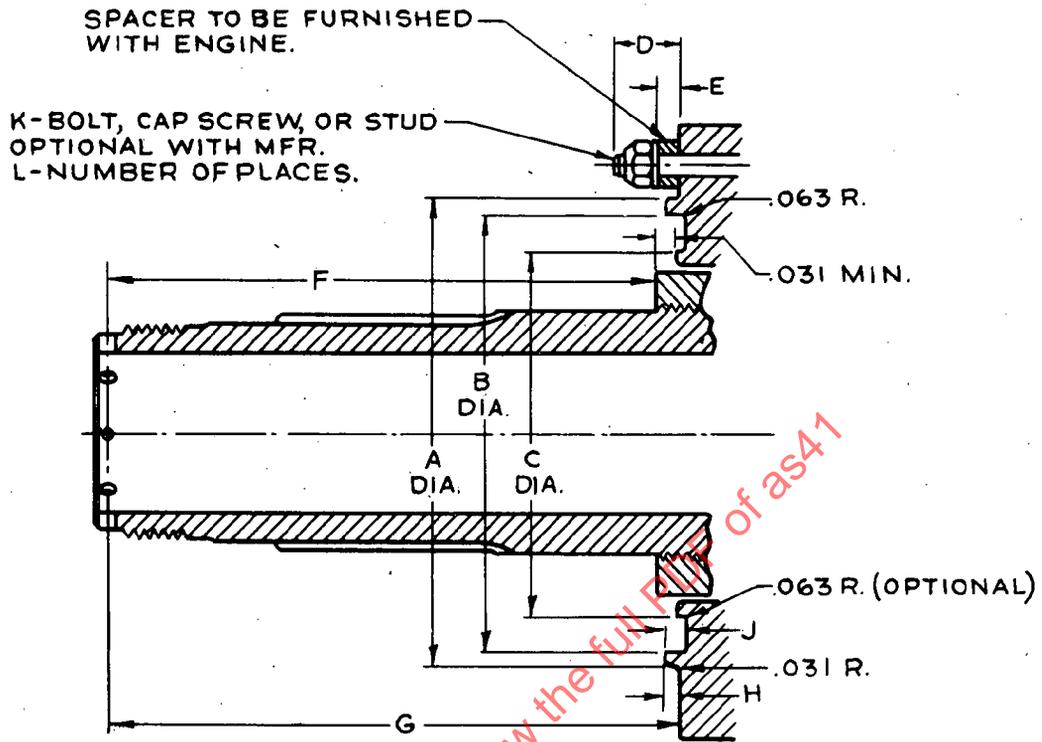
| LET | TOLER. | NO. 10 | NO. 20 | NO. 30 | NO. 40 | NO. 50 | NO. 60 |
|-----|------------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A | | = | 1.625 | 1.875 | 2.375 | 3.063 | 3.625 |
| B | +0.010 -0.000 | = | 1.516 | 1.766 | 2.266 | 2.891 | 3.516 |
| C | +0.005 -0.000 | = | 1.435 | 1.685 | 2.185 | 2.810 | 3.413 |
| D | +0.005 -0.000 | = | 1.430 | 1.680 | 2.180 | 2.805 | 3.408 |
| E | +0.010 -0.000 | = | 1.516 | 1.766 | 2.266 | 2.891 | 3.516 |
| F | | = | 0.125 | 0.156 | 0.156 | 0.250 | 0.250 |
| G | | = | 0.500 | 0.563 | 0.563 | 1.219 | 1.219 |
| H | | = | 0.656 | 0.781 | 0.781 | 1.531 | 1.344 |
| J | | = | 0.688 | 0.813 | 0.813 | 1.563 | 1.375 |
| K | = | = | 1.500 -16 | 1.750 -16 | 2.250 -16 | 2.875 -16 | 3.500 -12 |
| L | | = | 1.4594 | 1.7094 | 2.2094 | 2.8344 | 3.4459 |
| | TOLER. | = | +0.0040 -0.0000 | +0.0041 -0.0000 | +0.0044 -0.0000 | +0.0046 -0.0000 | +0.0053 -0.0000 |
| M | ±0.015 | = | 1.500 | 1.656 | 1.656 | 2.719 | 2.500 |
| N | | = | 1.375 | 1.531 | 1.531 | 2.594 | 2.375 |
| P | +0.100 -0.000 | = | | 0.600 | 0.600 | 0.920 | 0.900 |
| Q | MIN. | = | 0.375 | 0.438 | 0.547 | 0.594 | 0.594 |
| R | +0.000 -0.002 | = | 0.609 | 0.734 | 1.047 | 1.483 | 1.859 |
| S | | = | 1.100 | 1.350 | 1.800 | 2.400 | 2.920 |
| T | | = | 0.082 | 0.082 | 0.125 | 0.1405 | 0.1405 |
| U | | = | 1.688 | 1.938 | 2.438 | 3.063 | 3.688 |
| W | | = | 0.375 | 0.375 | 0.500 | 0.500 | 0.500 |

NOTE: P DIMENSION MAXIMUM LIMIT GIVES MAX. FULL OR IMPERFECT THREAD.
MINIMUM LIMIT GIVES MIN. FULL THREAD.
P DIMENSION DOES NOT APPLY WHEN UNDERCUT IS USED

TABLE 2 FOR FIG. 3

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ±.010

REFERENCE **AN** STANDARD



| LET. | TOLER. | NO. 10 | NO. 20 | NO. 30 | NO. 40 | NO. 50 | NO. 60 |
|------|--------|--------|--------|--------|---------|--------|---------|
| A | ±0.001 | | 4.998 | 4.998 | 6.248 | 7.248 | 7.748 |
| B | MIN. | | 4.750 | 4.750 | 5.875 | 6.813 | 7.313 |
| C | MAX. | | 4.250 | 4.250 | 4.750 | 6.000 | 6.313 |
| * D | MAX. | | 0.938 | 0.938 | 1.000 | 1.000 | 1.094 |
| E | | | 0.313 | 0.313 | 0.375 | 0.375 | 0.375 |
| F | ±0.015 | 6.375 | 7.875 | 8.243 | 7.906 | 8.562 | 10.500 |
| G | ±0.030 | | 8.218 | 8.218 | 8.078 | 8.968 | 11.125 |
| H | | | 0.188 | 0.188 | 0.188 | 0.250 | 0.250 |
| J | MIN. | | 0.250 | 0.250 | 0.125 | 0.344 | 0.219 |
| K | = | | 0.375 | 0.375 | 0.375 | 0.375 | 0.4375 |
| L | = | | 6 | 7 | 6 OR 12 | 10 | 8 OR 16 |

FOR OTHER APPLICABLE DIMENSIONS SEE FIG. 5 AND 6.
 * MIN. TO BE MAX. SUMMATION OF PARTS AND STUD CHAMFER USED.
 TOLERANCE FOR LOCATION OF K ±.005.
 ENGINE NOSE COVER AND SHAFT PROJECTION DIMENSIONS

FIG. 4

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ±.010.