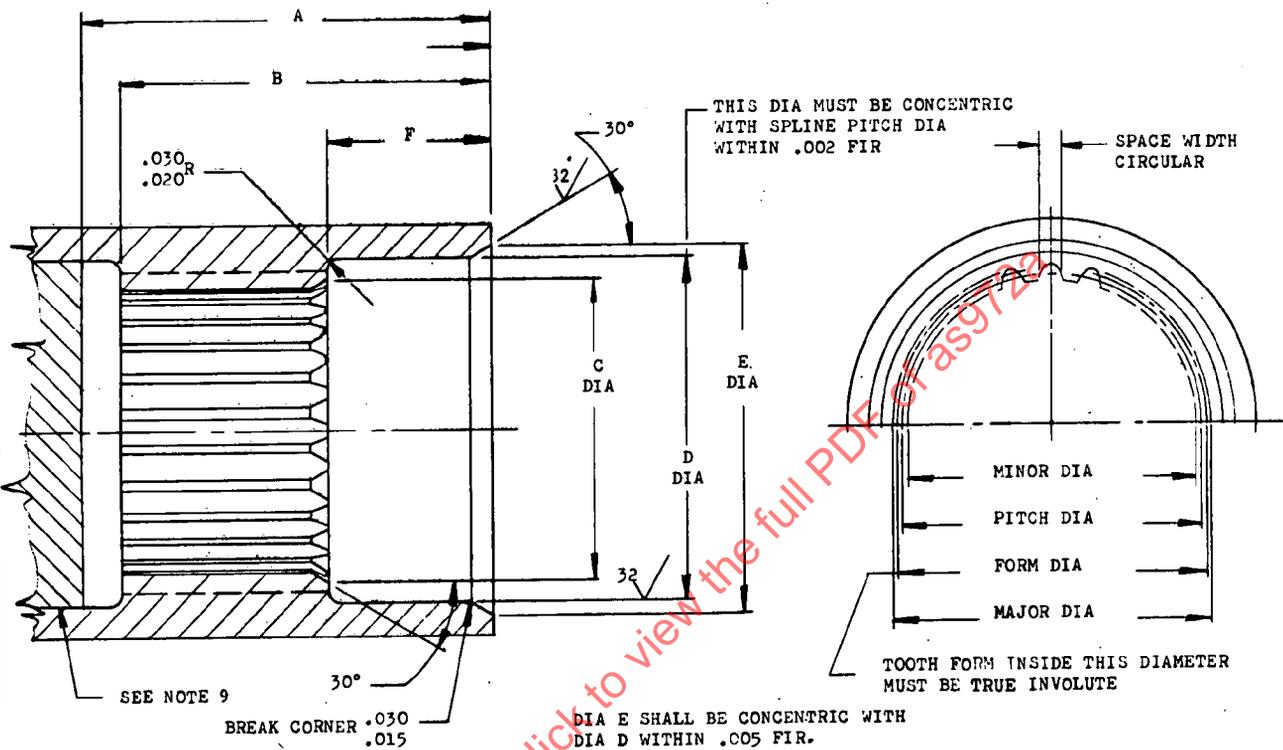![SAE logo - LAND SEA AIR SPACE]

AEROSPACE STANDARD

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AS 972 A

Issued 10-31-67
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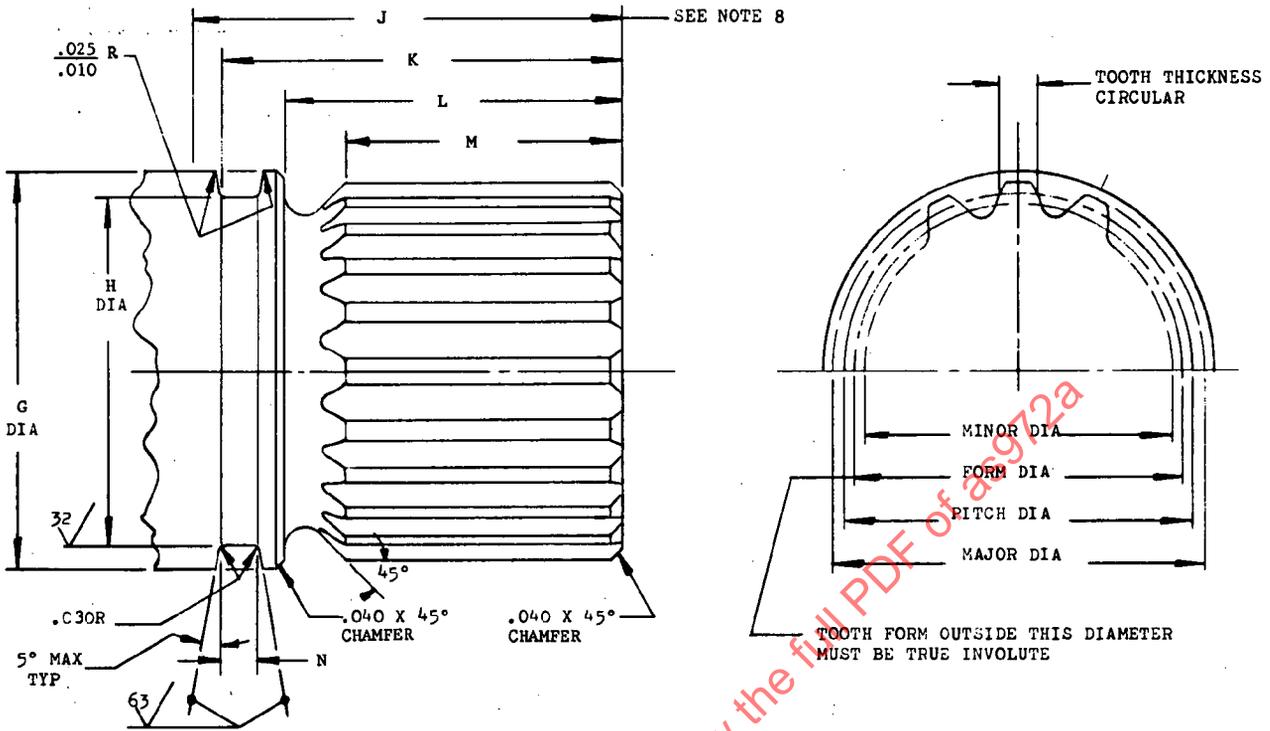
SPLINE DETAILS, ACCESSORY DRIVES AND FLANGES

THIS DIA MUST BE CONCENTRIC WITH SPLINE PITCH DIA WITHIN .002 FIR

SPACE WIDTH CIRCULAR

MINOR DIA
PITCH DIA
FORM DIA
MAJOR DIA

TOOTH FORM INSIDE THIS DIAMETER MUST BE TRUE INVOLUTE

SEE NOTE 9

BREAK CORNER .030/.015

DIA E SHALL BE CONCENTRIC WITH DIA D WITHIN .005 FIR.

SPLINE DESIGN DATA (INTERNAL)

PITCH DIA (REF)	NO. TEETH	DIAM'L PITCH	MAJOR DIA	FORM DIA MIN	MINOR DIA	SPACE WIDTH CIRCULAR MAX ACTUAL	MIN EFFECTIVE
0.4583	11	24/48	0.5423/0.5333	0.5074	0.4217/0.4167	0.0678	0.0654
0.6000	12	20/40	0.7000/0.6900	0.6578	0.5550/0.5500	0.0811	0.0785
0.8000	16	20/40	0.9000/0.8900	0.8582	0.7550/0.7500	0.0812	0.0785
1.2000	24	20/40	1.3000/1.2900	1.2592	1.1550/1.1500	0.0814	0.0785
1.6250	26	16/32	1.7485/1.7375	1.6975	1.5675/1.5625	0.1011	0.0982
2.0000	32	16/32	2.1235/2.1125	2.0732	1.9425/1.9375	0.1012	0.0982

DRIVE SHAFT DESIGN DATA

PITCH DIA (REF)	A MIN	B MIN	C DIA	D DIA	E DIA	F
0.4583	1.310	1.230	0.498/0.458	0.615/0.613	0.688/0.668	0.630/0.620
0.6000	1.450	1.370	0.640/0.600	0.750/0.748	0.823/0.803	0.630/0.620
0.8000	1.630	1.550	0.840/0.800	1.000/0.998	1.084/1.064	0.670/0.660
1.2000	1.890	1.810	1.240/1.200	1.375/1.373	1.459/1.439	0.670/0.660
1.6250	2.160	2.080	1.665/1.625	1.813/1.811	1.897/1.877	0.670/0.660
2.0000	2.390	2.310	2.040/2.000	2.188/2.186	2.272/2.252	0.670/0.660

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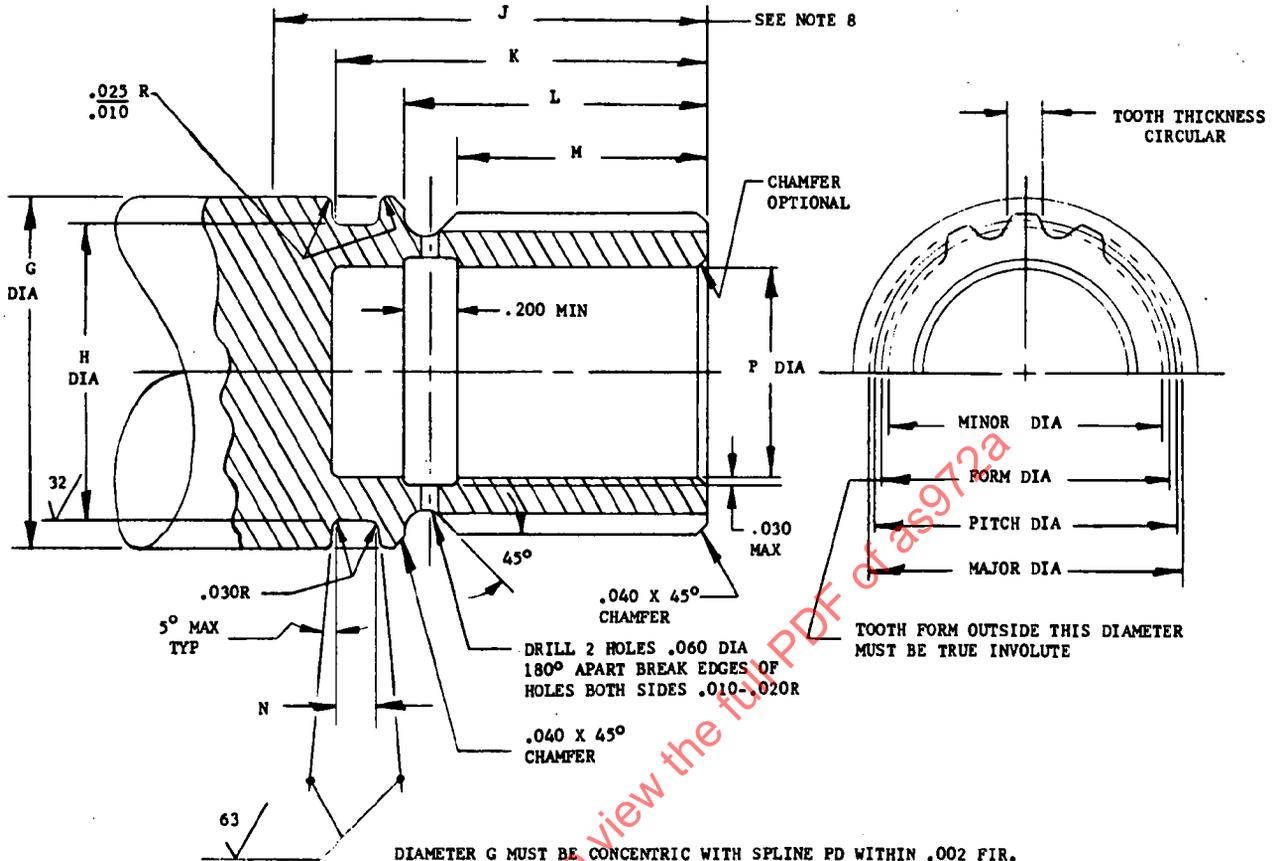
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DIAMETER G MUST BE CONCENTRIC WITH SPLINE PD WITHIN .002 FIR.
DIAMETER H MUST BE CONCENTRIC WITH DIAMETER G WITHIN .002 FIR.

SPLINE DESIGN DATA (EXTERNAL)

PITCH DIA (REF)	NO. TEETH	DIAMETRAL PITCH	MAJOR DIA	FORM DIA MAX	MINOR DIA	TOOTH THICKNESS CIRCULAR	
						MIN ACTUAL	MAX EFFECTIVE
0.4583	11	24/48	0.5000 0.4950	0.4093	0.3689 0.3599	0.0580	0.0604
0.6000	12	20/40	0.6500 0.6450	0.5422	0.4932 0.4832	0.0705	0.0731
0.8000	16	20/40	0.8500 0.8450	0.7418	0.6926 0.6826	0.0700	0.0727
1.2000	24	20/40	1.2500 1.2450	1.1408	1.0912 1.0812	0.0690	0.0719
1.6250	26	16/32	1.6875 1.6825	1.5525	1.4898 1.4788	0.0879	0.0908
2.0000	32	16/32	2.0625 2.0575	1.9268	1.8636 1.8526	0.0871	0.0901

DRIVE SHAFT DESIGN DATA

PITCH DIA (REF)	G DIA	H DIA	J MIN	K	L	M MIN	N	"O" RING SEE NOTE 7
0.4583	0.595 0.593	0.450 0.448	1.290	0.932 0.924	0.685 0.675	0.480	0.155 0.145	111
0.6000	0.730 0.728	0.585 0.583	1.430	1.073 1.069	0.825 0.815	0.605	0.155 0.145	113
0.8000	0.980 0.978	0.772 0.770	1.610	1.252 1.248	0.965 0.955	0.745	0.193 0.183	210
1.2000	1.355 1.353	1.147 1.145	1.870	1.512 1.508	1.225 1.215	1.005	0.193 0.183	216
1.6250	1.793 1.791	1.585 1.583	2.140	1.782 1.778	1.495 1.485	1.255	0.193 0.183	222
2.0000	2.168 2.166	1.960 1.958	2.370	2.012 2.008	1.725 1.715	1.485	0.193 0.183	225

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.025 R
.010

G DIA

H DIA

32

.030R

5° MAX TYP

N

63

J — SEE NOTE 8

K

L

M

CHAMFER OPTIONAL

.200 MIN

P DIA

.030 MAX

45°

.040 X 45° CHAMFER

DRILL 2 HOLES .060 DIA 180° APART BREAK EDGES OF HOLES BOTH SIDES .010-.020R

.040 X 45° CHAMFER

TOOTH THICKNESS CIRCULAR

MINOR DIA

FORM DIA

PITCH DIA

MAJOR DIA

TOOTH FORM OUTSIDE THIS DIAMETER MUST BE TRUE INVOLUTE

DIAMETER G MUST BE CONCENTRIC WITH SPLINE PD WITHIN .002 FIR.

DIAMETER H MUST BE CONCENTRIC WITH DIAMETER G WITHIN .002 FIR.

SPLINE DESIGN DATA (EXTERNAL)

PITCH DIA (REF)	NO. TEETH	DIAMETRAL PITCH	MAJOR DIA	FORM DIA MAX	MINOR DIA	TOOTH THICKNESS CIRCULAR	
						MIN ACTUAL	MAX EFFECTIVE
0.4583	11	24/48	0.5000 0.4950	0.4093	0.3689 0.3599	0.0580	0.0604
0.6000	12	20/40	0.6500 0.6450	0.5422	0.4932 0.4832	0.0705	0.0731
0.8000	16	20/40	0.8500 0.8450	0.7418	0.6926 0.6826	0.0700	0.0727
1.2000	24	20/40	1.2500 1.2450	1.1408	1.0912 1.0812	0.0690	0.0719
1.6250	26	16/32	1.6875 1.6825	1.5525	1.4898 1.4788	0.0879	0.0908
2.0000	32	16/32	2.0625 2.0575	1.9268	1.8636 1.8526	0.0871	0.0901

DRIVE SHAFT DESIGN DATA

PITCH DIA (REF)	G DIA	H DIA	J MIN	K	L	M MIN	N	P DIA MIN	"O" RING SEE NOTE 7
0.4583	0.595 0.593	0.450 0.448	1.290	0.932 0.924	0.685 0.675	0.480	0.155 0.145	.129	111
0.6000	0.730 0.728	0.585 0.583	1.430	1.073 1.069	0.825 0.815	0.605	0.155 0.145	.226	113
0.8000	0.980 0.978	0.772 0.770	1.610	1.252 1.248	0.965 0.955	0.745	0.193 0.183	.312	210
1.2000	1.355 1.353	1.147 1.145	1.870	1.512 1.508	1.225 1.215	1.005	0.193 0.183	.312	216
1.6250	1.793 1.791	1.585 1.583	2.140	1.782 1.778	1.495 1.485	1.255	0.193 0.183	.312	222
2.0000	2.168 2.166	1.960 1.958	2.370	2.012 2.008	1.725 1.715	1.485	0.193 0.183	.312	225