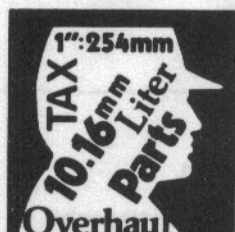


# Mechanic's Data



## General Conversion Table

Multiply By	To Convert	To	
<b>LENGTH</b>			
2.54	Inches	Centimeters	.3937
25.4	Inches	Millimeters	.03937
30.48	Feet	Centimeters	.0328
.304	Feet	Meters	3.28
.914	Yards	Meters	1.094
1.609	Miles	Kilometers	.621
<b>VOLUME</b>			
.473	Pints	Liters	2.11
.946	Quarts	Liters	1.06
3.785	Gallons	Liters	.264
.016	Cubic inches	Liters	61.02
16.39	Cubic inches	Cubic cms.	.061
28.3	Cubic feet	Liters	.0353
<b>MASS (Weight)</b>			
28.35	Ounces	Grams	.035
.4536	Pounds	Kilograms	2.20
—	To obtain	From	Multiply by

Multiply By	To Convert	To	
<b>AREA</b>			
.645	Square inches	Square cms.	.155
.836	Square yds.	Square meters	1.196
<b>FORCE</b>			
4.448	Pounds	Newtons	.225
.138	Ft./lbs.	Kilogram/meters	7.23
1.36	Ft./lbs.	Newton-meters	.737
.112	In./lbs.	Newton-meters	8.844
<b>PRESSURE</b>			
.068	Psi	Atmospheres	14.7
6.89	Psi	Kilopascals	.145
<b>OTHER</b>			
1.104	Horsepower (DIN)	Horsepower (SAE)	.9861
.746	Horsepower (SAE)	Kilowatts (KW)	1.34
1.60	Mph	Km/h	.625
.425	Mpg	Km/1	2.35
—	To obtain	From	Multiply by

## Tap Drill Sizes

National Coarse or U.S.S.		
Screw & Tap Size	Threads Per Inch	Use Drill Number
No. 5	.40	.39
No. 6	.32	.36
No. 8	.32	.29
No. 10	.24	.25
No. 12	.24	.17
1/4	.20	8
5/16	.18	F
3/8	.16	5/16
7/16	.14	U
1/2	.13	27/64
9/16	.12	31/64
5/8	.11	17/32
3/4	.10	21/32
7/8	.9	49/64

National Coarse or U.S.S.		
Screw & Tap Size	Threads Per Inch	Use Drill Number
1	8	7/8
1 1/8	7	63/64
1 1/4	7	17/64
1 1/2	6	111/32
National Fine or S.A.E.		
Screw & Tap Size	Threads Per Inch	Use Drill Number
No. 5	.44	.37
No. 6	.40	.33
No. 8	.36	.29
No. 10	.32	.21

National Fine or S.A.E.		
Screw & Tap Size	Threads Per Inch	Use Drill Number
No. 12	.28	.15
1/4	.28	3
5/16	.24	1
3/8	.24	Q
7/16	.20	W
1/2	.20	29/64
9/16	.18	33/64
5/8	.18	37/64
3/4	.16	11/16
7/8	.14	13/16
1 1/8	.12	13/64
1 1/4	.12	111/64
1 1/2	.12	127/64

Drill Sizes In Decimal Equivalents

Inch	Dec- imal	Wire	mm	Inch	Dec- imal	Wire	mm	Inch	Dec- imal	Wire & Letter	mm	Inch	Dec- imal	Let- ter	mm	Inch	Dec- imal	mm
1/64	.0156		.39		.0730	49			.1614		4.1		.2717		6.9		.4331	11.0
	.0157		.4		.0748	1.9			.1654		4.2		.2720	I		7/16	.4375	11.11
	.0160	78			.0760	48			.1660	19			.2756		7.0		.4528	11.5
	.0165		.42		.0768	1.95			.1673	4.25			.2770	J		29/64	.4531	11.51
	.0173		.44	5/64	.0781	1.98			.1693	4.3			.2795		7.1	15/32	.4688	11.90
	.0177		.45		.0785	47			.1695	18			.2810	K			.4724	12.0
	.0180	77			.0787	2.0	11/64	.1719	4.36	9/32	.2812	7.14	31/64	.4844	12.30			
	.0181		.46		.0807	2.05		.1730	17		.2835	7.2		.4921	12.5			
	.0189		.48		.0810	46		.1732	4.4		.2854	7.25	1/2	.5000	12.70			
	.0197		.5		.0820	45		.1770	16		.2874	7.3		.5118	13.0			
.0200	76			.0827	2.1		.1772	4.5		.2900	L		.5156	13.09	33/64			
.0210	75			.0846	2.15		.1800	15		.2913		7.4	.5312	13.49	17/32			
.0217		.55		.0860	44		.1811	4.6		.2950	M		.5315	13.5				
.0225	74			.0866	2.2		.1820	14		.2953		7.5	.5469	13.89	35/64			
.0236		.6		.0886	2.25		.1850	13		.2969	19/64	7.54	.5512	14.0				
.0240	73			.0890	43		.1850	4.7		.2992		7.6	.5625	14.28	9/16			
.0250	72			.0906	2.3		.1870	4.75		.3020	N		.5709	14.5				
.0256		.65		.0925	2.35		.1875	4.76	3/16	.3031		7.7	.5781	14.88	37/64			
.0260	71			.0935	42		.1890	4.8		.3051		7.75	.5906	15.0				
.0276		.7	3/32	.0938	2.38		.1890	12		.3071		7.8	.5938	15.08	19/32			
.0280	70			.0945	2.4		.1910	11		.3110		7.9	.6094	15.47	39/64			
.0292	69			.0960	41		.1929	4.9	5/16	.3125	7.93		.6102	15.5				
.0295		.75		.0965	2.45		.1935	10		.3150		8.0	.6250	15.87	5/8			
.0310	68			.0980	40		.1960	9		.3160	O		.6299	16.0				
1/32	.0312		.79		.0981	2.5		.1969	5.0	.3189		8.1	.6406	16.27	41/64			
.0315		.8		.0995	39		.1990	8		.3228		8.2	.6496	16.5				
.0320	67			.1015	38		.2008	5.1		.3230	P		.6562	16.66	21/32			
.0330	66			.1024	2.6		.2010	7		.3248		8.25	.6693	17.0				
.0335		.85		.1040	37		.2031	5.16	13/64	.3268		8.3	.6719	17.06	43/64			
.0350	65			.1063	2.7		.2040	6		.3281	21/64	8.33	.6875	17.46	11/16			
.0354		.9		.1065	36		.2047	5.2		.3307		8.4	.6890	17.5				
.0360	64			.1083	2.75		.2055	5		.3320		8.4	.7031	17.85	45/64			
.0370	63			.1094	2.77		.2067	5.25		.3346		8.5	.7087	18.0				
.0374		.95		.1100	35		.2087	5.3		.3366		8.6	.7188	18.25	23/32			
.0380	62			.1102	2.8		.2090	4		.3390	R		.7283	18.5				
.0390	61			.1110	34		.2126	5.4		.3425		8.7	.7344	18.65	47/64			
.0394		1.0		.1130	33		.2130	3		.3438		8.73	.7480	19.0				
.0400	60			.1142	2.9		.2165	5.5		.3445	11/32	8.75	.7500	19.05	3/4			
.0410	59			.1160	32		.2188	5.55	7/32	.3465		8.8	.7656	19.44	49/64			
.0413		1.05		.1181	3.0		.2205	5.6		.3480	S		.7677	19.5				
.0420	58			.1200	31		.2210	2		.3504		8.9	.7812	19.84	25/32			
.0430	57			.1220	3.1		.2244	5.7		.3543		9.0	.7874	20.0				
.0433		1.1	1/8	.1250	3.17		.2264	5.75		.3580	T		.7969	20.24	51/64			
.0453		1.15		.1260	3.2		.2280	1		.3583		9.1	.8071	20.5				
.0465	56			.1280	3.25		.2283	5.8		.3594	23/64	9.12	.8125	20.63	13/16			
.0469		1.19		.1285	30		.2323	5.9		.3622		9.2	.8268	21.0				
.0472		1.2		.1299	3.3		.2340	A		.3642		9.25	.8281	21.03	53/64			
.0492		1.25		.1339	3.4		.2344	5.95	15/64	.3661		9.3	.8438	21.43	27/32			
.0512		1.3		.1360	29		.2362	6.0		.3680	U		.8465	21.5				
.0520	55			.1378	3.5		.2380	B		.3701		9.4	.8594	21.82	55/64			
.0531		1.35		.1405	28		.2402	6.1		.3740		9.5	.8661	22.0				
.0550	54			.1406	3.57	9/64	.2420	C		.3750	3/8	9.52	.8750	22.22	7/8			
.0551		1.4		.1417	3.6		.2441	6.2		.3770	V		.8858	22.5				
.0571		1.45		.1440	27		.2460	D		.3780		9.6	.8906	22.62	57/64			
.0591		1.5		.1457	3.7		.2461	6.25		.3819		9.7	.9055	23.0				
.0595	53			.1470	26		.2480	6.3		.3839		9.75	.9062	23.01	29/32			
.0610		1.55		.1476	3.75	1/4	.2500	E	6.35	.3858		9.8	.9219	23.41	59/64			
.0625		1.59		.1495	25		.2520	6.		.3860	W		.9252	23.5				
.0630		1.6		.1496	3.8		.2559	6.5		.3898		9.9	.9375	23.81	15/16			
.0635	52			.1520	24		.2570	F		.3906	25/64	9.92	.9449	24.0				
.0650		1.65		.1535	3.9		.2598	6.6		.3937		10.0	.9531	24.2	61/64			
.0669		1.7		.1540	23		.2610	G		.3970		10.1	.9646	24.5				
.0670	51			.1562	3.96	5/32	.2638	6.7		.4040	Y		.9688	24.6	31/64			
.0689		1.75		.1570	22		.2656	6.74	17/64	.4062		10.31	.9843	25.0				
.0700		1.8		.1575	4.0		.2657	6.75		.4130	Z		.9844	25.0	63/64			
.0709		1.8		.1590	21		.2660	H		.4134		10.5	.9844	25.0	1	1.0000	25.4	
.0728		1.85		.1610	20		.2677	6.8		.4219	27/64	10.71						