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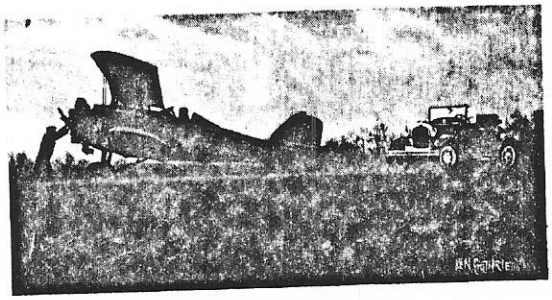

MAY MEETING: THURSDAY, MAY 14, 1981 AT HAROLD BUCK'S HANGAR 5-G, COLUMBUS METRO AIRPORT, 7:30 P.M. PROGRAM: CHRIS HEINTZ, AERONAUTICAL ENGINEER AND DESIGNER OF ZENAIR LINE OF HOMEBUILT AIRCRAFT WILL PRESENT FORUM ON ZENITH 250 BUILT BY BILL MILLER OF GAINESVILLE. IN THE EVENT OF BAD WEATHER, PREVENTING ARRIVAL OF THE PLANE, OUR MEETING WILL BE HELD AT FIRST FEDERAL SAVINGS & LOAN, BEALLWOOD CONNECTOR.

PREZ SEZ: I ANNOUNCED AT FEBRUARY MEETING A PLAN TO CHARTER A BUS TO OSHKOSH '81. SO FAR, 9 OF YOU HAVE PUT UP A $25 REFUNDABLE SEAT DEPOSIT, INCLUDING 3 COUPLES. ON APRIL 18, AFTER SEEING JERE ROSSER AND TWEETY BIRD TAKE OFF FROM HIS STIMULATING EXPOSITION WITH US, I WENT TO GREYHOUND AND GOT IT IN WRITING. WITH A $100 REFUNDABLE DEPOSIT I HAVE RESERVED A 43-SEAT BUS FOR AUGUST 1 - 8, AND HAVE FROZEN THE COST. THE GOAL IS TO GET 43 PEOPLE TO SHARE THAT COST SO OUR FARE WILL BE $86.40 ROUNDTRIP, WHICH IS LESS THAN HALF THE TICKET-WINDOW FARE ON SCHEDULED BUSES. AN INFO LETTER INVITING PARTICIPATION WILL SOON BE SENT TO ALL FAAers, THEN TO 35 AREA CHAPTERS (PASSENGERS MAY BOARD FROM HERE TO NASHVILLE). THE LETTER WAS INTERRUPTED BY MY RECENT 5-WEEK MOTOR TRIP TO SEATTLE VIA N. DAKOTA, RESULTING FROM A FAMILY BIRTH AND DEATH. A NOTICE ABOUT THE CHARTER HAS ALREADY APPEARED IN THE APRIL ISSUE OF EAA HQS. CHAPTER BULLETIN. WILL YOU HELP US PUBLICIZE THIS IF YOU GET A CHANCE?.....LATER THIS MONTH I'LL BE SCHEDULING A BUSINESS MEETING OF CHAPTER OFFICERS AND APPOINTEES TO INITIATE AND FORMULATE SOME CHANGES AND IMPROVEMENTS. MEANWHILE, WILL YOU PLEASE HELP BY TELLING ONE OF US WHAT IT IS THAT YOU WOULD LIKE TO SEE DONE OR CHANGED, AND HOW? WE'RE NOT OUT OF IDEAS, BUT WE WELCOME YOURS AND HERE'S YOUR CHANCE TO DO SOME CONSTRUCTIVE CRITICISM. THANKS, COMRADES.

CONGRATULATIONS TO VERNON PRATER. HE IS NOT ALWAYS AN EASY MAN TO REACH, BUT RUMOR HAS IT THAT HIS FLIGHT MEDICAL CERTIFICATE HAS BEEN REINSTATED, AT LEAST FOR A 6-MONTH TRIAL PERIOD. VERNON HAD TRIED UNSUCCESSFULLY SEVERAL TIMES TO GET THIS ACTION FROM THE FAA MEDICAL HIERARCHY. TOWARD THE LAST, HE AND HIS LAWYER HAD SCHEDULED A HEARING BEFORE THE NTSB (THE FINAL AUTHORITY SHORT OF SUPREME COURT), BUT THE FAA HAD SAID, "LET US KNOW BEFORE YOU GO BEFORE NTSB." APPARENTLY HE DID...AND FAA DID...WHAT HE WANTED. OBJECT LESSON: PERSISTENCE SOMETIMES PAYS OFF IN THESE MATTERS.

JIM CANNINGTON UNDERWENT A HASTILY-SCHEDULED APPENDECTOMY FRIDAY, THE 1st, AT DOCTORS HOSPITAL--AND NONE TOO SOON FOR IT WAS ABOUT TO BURST (THE APPENDIX THAT IS). ON THE FOLLOWING MONDAY MORNING HE WAS LOOKING GOOD BUT WAS ON THE HORNS OF DILEMMA. HE DIDN'T KNOW WHETHER TO STIFLE THE COUGH FROM HIS WEEK-OLD COLD, OR DO IT AND SUFFER IN THE INCISION AREA. HE EXPRESSED AN INTEREST IN DISPOSING OF HIS THORPE T-18 PROJECT AND ACQUIRING A POLLIWAGON KIT. ANYBODY INTERESTED? IT'S ONE OF THE T-18's FROM THE LOCKHEED-MARIETTA GROUP WHO STARTED A MASS PRODUCTION EFFORT SOME YEARS AGO.

IT APPEARS THAT WE WILL HAVE A REGULAR MEETING IN JUNE AT FIRST FEDERAL S&L, WHITESVILLE ROAD.

Be kind. Remember everyone you meet is fighting a hard battle.

T. H. THOMPSON

Drilling Metal. A lubricant is usually required when drilling metal to prevent overheating the bit. While a simple shot of light oil is usually all that is necessary for a quick job on thin material, deep drilling calls for the lubricant best suited to the material. The following list will assure the best results:

Material	Lubricant
Hard, tough steels	Turpentine or kerosene
Softer steels	Lard oil or similar oil
Aluminum, other soft alloys	Kerosene
Brass	Dry or paraffin oil
Die castings	Dry or kerosene
Cast iron	Dry (no lubricant)

Whatever material is being drilled, the drill-bit diameter, the material and speed should be matched as closely as possible, according to the following chart:

Drill Diam.	R.P.M. and Material							
	Soft Metals	Plastics Hard Rubber	Annealed Cast Iron	Mild Steel	Malleable Iron	Hard Cast Iron	Tool or Hard Steel	Steel Alloy
1/16	18320	12217	8554	6111	5500	4889	3667	2445
3/32	12212	8142	5702	4071	3666	3528	2442	1649
1/8	9160	6112	4278	3056	2750	2445	1833	1222
5/32	7328	4888	3420	2444	2198	1954	1465	977
3/16	6106	4075	2852	2037	1833	1630	1222	815
7/32	5234	3490	2444	1745	1575	1396	1047	698
1/4	4575	3055	2139	1527	1375	1222	917	611
9/32	4071	2712	1900	1356	1222	1084	814	542
5/16	3660	2445	1711	1222	1100	978	733	489
11/32	3330	2220	1554	1110	1000	888	666	444
3/8	3050	2037	1426	1018	917	815	611	407
13/32	2818	1878	1316	939	846	752	563	376
7/16	2614	1746	1222	873	786	698	524	349
15/32	2442	1628	1140	814	732	652	488	326
1/2	2287	1528	1070	764	688	611	458	306
9/16	2035	1357	950	678	611	543	407	271
5/8	1830	1222	856	611	550	489	367	244
11/16	1665	1110	777	555	500	444	333	222
3/4	1525	1018	713	509	458	407	306	204

The figures given are for high-speed drill bits. For carbon bits use half the speed. As all the speeds listed are not necessarily obtainable on all drill presses use the speed nearest to the one given. The speeds are based on the number of feet per minute that the perimeter of the bit is traveling. To figure the r.p.m. for any size bit, here are the recommended speeds in feet per minute of the materials listed: Soft metals, 300 f.p.m.; plastics and hard rubber, 200 f.p.m.; annealed cast iron, 140 f.p.m.; mild steel, 100 f.p.m.; malleable iron, 90 f.p.m.; hard cast iron, 80 f.p.m.; tool or hard steel, 60 f.p.m.; alloy steel or cast steel, 40 f.p.m.

DECIMAL EQUIVALENTS OF PARTS OF AN INCH

1/64	.015625	17/64	.265625	33/64	.515625	49/64	.765625
1/32	.03125	9/32	.28125	17/32	.53125	25/32	.78125
3/64	.046875	19/64	.296875	35/64	.546875	51/64	.796875
1/16	.0625	5/16	.3125	9/16	.5625	13/16	.8125
5/64	.078125	21/64	.328125	37/64	.578125	53/64	.828125
3/32	.09375	11/32	.34375	19/32	.59375	27/32	.84375
7/64	.109375	23/64	.359375	39/64	.609375	55/64	.859375
1/8	.125	3/8	.375	5/8	.625	7/8	.875
9/64	.140625	25/64	.390625	41/64	.640625	57/64	.890625
5/32	.15625	13/32	.40625	21/32	.65625	29/32	.90675
11/64	.171875	27/64	.421875	43/64	.671875	59/64	.921875
3/16	.1875	7/16	.4375	11/16	.6875	15/16	.9375
13/64	.203125	29/64	.453125	45/64	.703125	61/64	.953125
7/32	.21875	15/32	.46875	23/32	.71875	31/32	.96875
15/64	.234375	31/64	.484375	47/64	.734375	63/64	.984375
1/4	.25	1/2	.5	3/4	.75	1.	1.

AMERICAN STANDARD AND METRIC TAP DRILL SIZES

Tap Size	Std.	Drill Size	Dec. Equiv.	Nearest Fractional Drill Size	Tap Size	Std.	Fractional Drill Size	Dec. Equiv.
4 x 40	NC	No. 43	.0890	3/32	7/16 x 20	NF	25/64	.3906
6 x 32	NC	No. 36	.1065	7/64	7/16 x 14	NC	3/8	.3750
8 x 32	NC	No. 29	.1360	9/64	1/2 x 13	NC	27/64	.4219
10 x 32	NF	No. 21	.1590	5/32	1/2 x 20	NF	29/64	.4531
10 x 24	NC	No. 25	.1495	5/32	9/16 x 12	NC	31/64	.4844
12 x 24	NC	No. 16	.1770	11/64	9/16 x 18	NF	33/64	.5156
1/4 x 20	NC	No. 7	.2010	13/64	5/8 x 11	NC	17/32	.5312
1/4 x 28	NF	No. 3	.2130	7/32	5/8 x 18	NF	37/64	.5781
5/16 x 18	NC	17/64	.2656	17/64	11/16 x 11	NC	19/32	.5937
5/16 x 24	NF	17/64	.2656	17/64	11/16 x 16	NF	5/8	.6250
3/8 x 24	NF	21/64	.3281	21/64	3/4 x 10	NC	21/32	.6562
3/8 x 16	NC	5/16	.3125	5/16	3/4 x 16	NF	11/16	.6875
1/8 Pipe		5/16	.3125	5/16	1/4 Pipe		7/16	.437

Tap Size	Drill Size	Dec. Equiv.	Nearest Fraction	Tap Size	Drill Size	Dec. Equiv.	Nearest Fraction
3mm x .50mm	No. 39	.0995	3/32	8mm x 1.25mm	17/64	.265	17/64
3mm x .60mm	3/32	.0937	3/32	9mm x 1.00mm	5/16	.3125	5/16
4mm x .70mm	No. 30	.1285	1/8	9mm x 1.25mm	5/16	.3125	5/16
4mm x .75mm	1/8	.125	1/8	10mm x 1.25mm	11/32	.3437	11/32
5mm x .80mm	No. 19	.166	11/64	10mm x 1.50mm	"R"	.339	11/32
5mm x .90mm	No. 20	.161	5/32	11mm x 1.50mm	3/8	.375	3/8
6mm x 1.00mm	No. 9	.196	13/64	12mm x 1.50mm	13/32	.406	13/32
7mm x 1.00mm	15/64	.234	15/64	12mm x 1.75mm	13/32	.406	13/32
8mm x 1.00mm	"J"	.277	9/32	1/8-28BSP	21/64	.3281	21/64

DECIMAL EQUIVALENTS OF LETTER SIZE DRILLS

Letter	Size of Drill in Inches	Letter	Size of Drill in Inches	Letter	Size of Drill in Inches
A	0.234	H	0.266	O	0.316	U	0.368
B	0.238	I	0.272	P	0.323	V	0.377
C	0.242	J	0.277	Q	0.332	W	0.386
D	0.246	K	0.281	R	0.339	X	0.397
E	0.250	L	0.290	S	0.348	Y	0.404
F	0.257	M	0.295	T	0.358	Z	0.413
G	0.261	N	0.302				

DECIMAL EQUIVALENTS OF NUMBER SIZE DRILLS

No.	Size of Drill in Inches	No.	Size of Drill in Inches	No.	Size of Drill in Inches	No.	Size of Drill in Inches
1	.2280	21	.1590	41	.0960	61	.0390
2	.2210	22	.1570	42	.0935	62	.0380
3	.2130	23	.1540	43	.0890	63	.0370
4	.2090	24	.1520	44	.0860	64	.0360
5	.2055	25	.1490	45	.0820	65	.0350
6	.2040	26	.1470	46	.0810	66	.0330
7	.2010	27	.1440	47	.0785	67	.0320
8	.1990	28	.1405	48	.0760	68	.0310
9	.1960	29	.1360	49	.0730	69	.0292
10	.1935	30	.1285	50	.0700	70	.0280
11	.1910	31	.1200	51	.0670	71	.0260
12	.1890	32	.1160	52	.0635	72	.0250
13	.1850	33	.1130	53	.0595	73	.0240
14	.1820	34	.1110	54	.0550	74	.0225
15	.1800	35	.1100	55	.0520	75	.0210
16	.1770	36	.1065	56	.0465	76	.0200
17	.1730	37	.1040	57	.0430	77	.0180
18	.1695	38	.1015	58	.0420	78	.0160
19	.1660	39	.0995	59	.0410	79	.0145
20	.1610	40	.0980	60	.0400	80	.0135