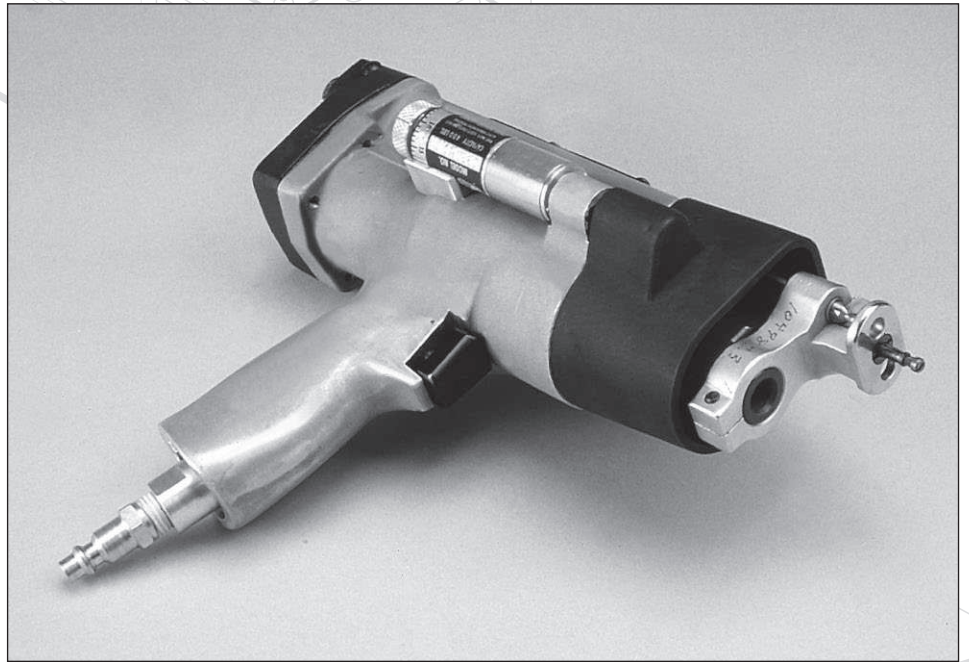


SPACEMATIC

**MAINTENANCE MANUAL
& OPERATOR'S GUIDE**



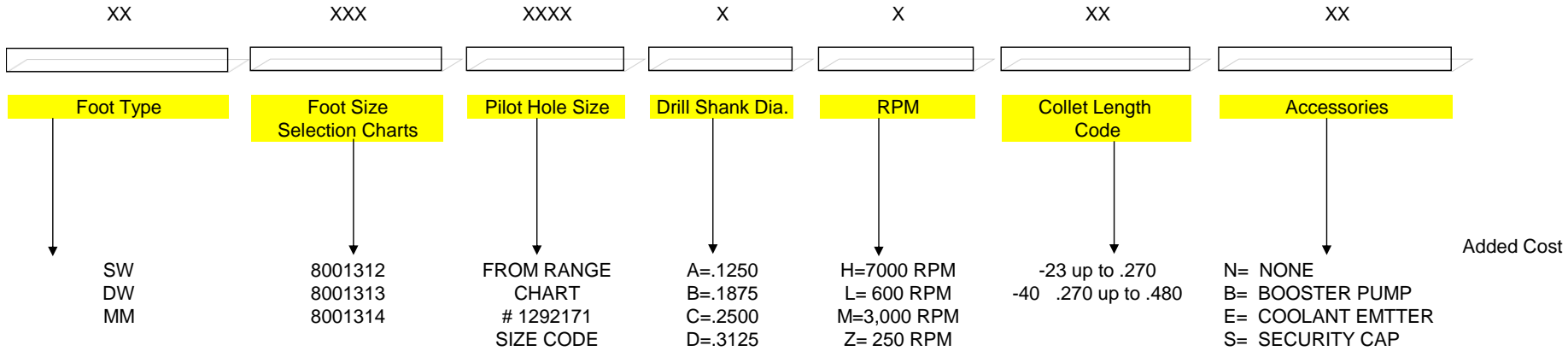
**NUTPLATE DRILLMOTOR
II & IIB**

HSTOOLING

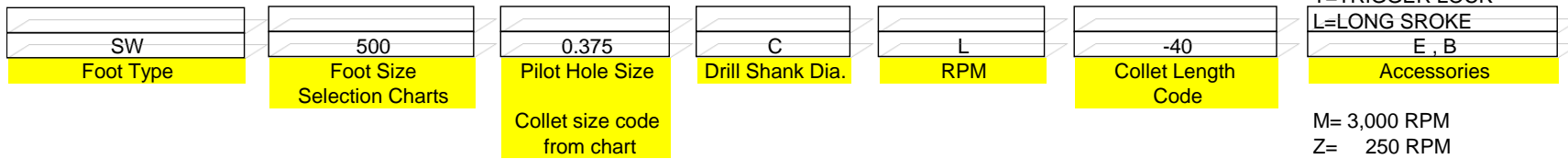
Date: _____

Spacematic NPDM II-B Selected Model Number

Qty: _____



Example: SW 500-375-C-L-40-EB



THIS IS A SW 500 TOOL WITH A PILOT HOLE SIZE OF .375
DRILL SHANK DIA. .250
600 RPM
.270 TO .480 MATERIAL THICKNESS
COOLANT EMITTER AND A BOOSTER PUMP

Narrow Spacing

- SW 203
- SW 218
- SW 234
- SW 250
- SW281
- MM 273
- MM 302







CUTTER SELECTION AND APPLICATION
CHART NO. 5412560 - FOR ULTRALITE™ NUTPLATE DRILLMOTOR II/IIB

DRILL DIA	MAX C'SINK AND CUTTER SHANK DIA.	CUTTER PART NUMBER/STOCK NUMBER (SEE NOTES BELOW)					
		MATERIAL THICKNESS AND TYPE					
		0 - .187		0 - .312		0 - .437	
		ALUMINUM	TITANIUM AND STEEL	ALUMINUM	TITANIUM AND STEEL	ALUMINUM	TITANIUM AND STEEL
.0670	.1250	1216193	1216211	1216223	7000421	NOT AVAILABLE	NOT AVAILABLE
		WD51-100-25	WD51M3-100-25	WD51-100-35	WD51M3-100-35	WD51-100-50	WD51M3-100-50
	.1875	1216399	1216405	1216417	7002521	7002523	7002524
		WDS51-100-25	WDS51M3-100-25	WDS51-100-35	WDS51M3-100-35	WDS51-100-50	WDS51M3-100-50
.0960	.1875	1216119	1216120	1204828	1204853	1216144	1216181
		WD40-100-25	WD40M3-100-25	WD40-100-35	WD40M3-100-35	WD40-100-50	WD40-M3-100-50
	.2500	1216284	1216296	1216132	1216314	1216168	7002530
		WDS40-100-25	WD40M3-100-25	WDS40-100-35	WDS40M3-100-35	WDS40-100-50	WDS40M3-100-50
.1285	.2500	1215966	1246367	1204816	1204841	1216028	1216041
		WD30-100-25	WD30M3-100-25	WD30-100-35	WDS30M3-100-35	WD30-100-50	WDS30M3-100-50
	.3125	1268132	1268144	1216004	1216247	1216016	1216260
		WDS30-100-25	WDS30M3-100-25	WDS30-100-35	WDS30M3-100-35	WDS30-100-50	WDS30M3-100-50
.1590	.3125	1246276	1246288	1215899	1246318	1215905	1246343
		WD21-100-25	WD21M3-100-25	WD21-100-35	WD21M3-100-35	WD21-100-50	WD21M3-100-50
	.3750	1246306	NOT AVAILABLE	1215917	NOT AVAILABLE	1246355	NOT AVAILABLE
		WDS21-100-25	WDS21M3-100-25	WDS21-100-35	WDS21M2-100-35	WDS21-100-50	WDS21M2-100-50

NOTES:

1. Part numbers and stock numbers were carried over from Winslow Mfg. Co. (WD meant Winslow Drill). M3 is a common symbol for steel with cobalt used for drilling steel. 100 is the countersink angle (degrees) and -25, -35 and -50 are flute lengths. The 7-digit stock no. is the ordering number.
2. Cutters are always ordered in matched pairs of equal length. When re-sharpened, the equal length should be maintained.
3. Cutters of equivalent diameters and length, but with a solid carbide drill portion for drilling composite materials are available on special order only.

COLLET, MANDREL AND BUSHING SELECTION
CHART NO. 1292171- FOR ULTRALITE™ NUTPLATE DRILLMOTOR II

HOLE SIZE RANGE		COLLET		COLLET PART NO.	MANDREL PART NO.	2 BUSHING PART NO.	HOLE SIZE RANGE		COLLET		COLLET PART NO.	MANDREL PART NO.	2 BUSHING PART NO.
MIN.	MAX.	SIZE CODE	LENGTH CODE				MIN.	MAX.	SIZE CODE	LENGTH CODE			
.1160	.1200	.1160	-0230	1050072	1296097	1055343	.2440	.2500	.2448	-0230	1051763	1053929	1055628
			-0400	1050084	1296103	1055343			.2448	-0400	1051775	1053930	1055628
.1200	.1240	.1200	-0230	1050096	1296097	1055343	.2490	.2550	.2500	-0230	1051890	1053929	1055640
			-0400	1294076	1296103	1055343			.2500	-0400	1051908	1053930	1055640
.1230	.1280	.1230	-0230	1050102	1053036	1055343	.2540	.2600	.2552	-0230	1051962	1053929	1055665
			-0400	1050114	1053048	1055343			.2552	-0400	1051994	1053930	1055665
.1250	.1300	.1250	-0230	1050175	1053036	1055355	.2595	.2655	.2604	-0230	1052080	1054065	1055689
			-0400	1050187	1053048	1055355			.2604	-0400	1052184	1054077	1055689
.1300	.1350	.1300	-0230	1050254	1053036	1055367	.2645	.2705	.2656	-0230	1052172	1054065	1055690
			-0400	1291774	1053048	1055367			.2656	-0400	1052093	1054077	1055690
.1350	.1400	.1358	-0230	1050278	1053140	1055380	.2700	.2760	.2708	-0230	1208019	1054065	1055707
			-0400	1050290	1053152	1055380			.2708	-0400	1294118	1054077	1055707
.1400	.1450	.1406	-0230	1050357	1053140	1055392	.2750	.2810	.2760	-0230	1052263	1054132	1055719
			-0400	1050369	1053152	1055392			.2760	-0400	1294131	1054144	1055719
.1450	.1500	.1458	-0230	1050412	1053140	1055409	.2800	.2860	.2812	-0230	1052287	1054132	1055720
			-0400	1050424	1053152	1055409			.2812	-0400	1052299	1054144	1055720
.1500	.1580	.1510	-0230	1050460	1053243	1055410	.2855	.2915	.2864	-0230	1052366	1054132	1055732
			-0400	1050473	1053255	1055410			.2864	-0400	1052378	1054144	1055732
.1550	.1610	.1562	-0230	1050540	1053243	1055422	.2905	.2965	.2917	-0230	1207015	1054272	1055744
		.0400	1050552	1053255	1055422	1055422			.2917	-0400	1207416	1054284	1055744
.1605	.1665	.1614	-0230	1050630	1053243	1055434	.2960	.3020	.2969	-0230	1052406	1054272	1055756
			-0400	1050643	1053255	1055434			.2969	-0400	1207428	1054284	1055756
.1655	.1715	.1667	-0230	1050709	1053370	1055446	.3010	.3070	.3021	-0230	1052482	1054272	1055768
			-0400	1050710	1053383	1055446			.3021	-0400	1207441	1054284	1055768
.1710	.1770	.1719	-0230	1050783	1053370	1055458	.3065	.3125	.3073	-0230	1052500	1054363	1055780
			-0400	1050795	1053383	1055458			.3073	-0400	1052512	1054375	1055780
.1760	.1820	.1771	-0230	1050849	1053370	1055470	.3115	.3175	.3125	-0230	1052597	1054363	1055793
			-0400	1050850	1053383	1055470			.3125	-0400	1052603	1054375	1055793
.1815	.1875	.1823	-0230	1050886	1053462	1055483	.3165	.3225	.3177	-0230	1052688	1054363	1055810
			-0400	1050898	1053474	1055483			.3177	-0400	1052705	1054375	1055810
.1865	.1925	.1875	-0230	1050990	1053462	1055495	.3220	.3280	.3229	-0230	1296620	1054545	
			-0400	1051003	1053474	1055495			.3229	-0400	1296632	1189815	
.1915	.1975	.1927	-0230	1051130	1053462	1055513	.3270	.3330	.3281	-0230	1296644	1054545	
			-0400	1051143	1053474	1055513			.3281	-0400	1296656	1189815	
.1970	.2030	.1979	-0230	1051222	1053620	1055525	.3325	.3385	.3333	-0230	1296668	1054545	
			-0400	1051234	1053632	1055525			-	-0400	1296681	1189615	
.2020	.2080	.2031	-0230	1051301	1053620	1055537	.3375	.3435	.3386	-0230	1296693	1054612	
			-0400	1051313	1053632	1055537			.3386	-0400	1296711	1054624	
.2075	.2135	.2083	-0230	1051362	1053620	1055549	.3430	.3490	.3438	-0230	1264497	1054612	
			-0400	1294068	1053632	1055549			.3438	-0400	1194197	1054624	BUSHING
.2125	.2185	.2136	-0230	1051374	1053723	1055550	.3480	.3540	.3490	-0230	1296723	1054612	NOT
			-0400	1205316	1053735	1055550			.3490	-0400	1296735	1054624	REQ'D.
.2180	.2240	.2188	-0230	1051416	1053723	1055562	.3530	.3590	.3542	-0230	1296747	1207994	
			-0400	1051428	1053735	1055562			.3542	-0400	1296759	1289391	
.2230	.2290	.2240	-0230	1051490	1053723	1055574	.3585	.3645	.3594	-0230	1296760	1207994	
			-0400	1254091	1053735	1055574			.3594	-0400	1055999	1289391	
.2280	.2340	.2292	-0230	1051507	1053814	1055586	.3635	.3695	.3646	-0230	1296772	1207994	
			-0400	1051519	1053826	1055586			.3646	-0400	1296784	1289391	
.2335	.2395	.2344	-0230	1051659	1053814	1055604	.3690	.3750	.3698	-0230	1056062	1054843	
			-0400	1207396	1053826	1055604			.3698	-0400	1256713	1054855	
.2385	.2445	.2396	-0230	1051714	1053814	1055616	.3740	.3800	.3750	-0230	1056153	1054843	
			-0400	1294106	1053826	1055616			.3750	-0400	1256165	1054855	

Notes:

1. This chart should not be used unless it is referred to by Master Assembly Charts for nutplate drill motor.
2. Hole size .1160/.3800 that have a threaded collet bore in the foot assembly require a bushing per part no. indicated.
3. Collet sizes .1160 and .1200 are below minimum design standards and short life can be expected.

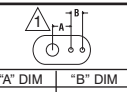
SPACEMATIC

ULTRALITE®

**MASTER ASSEMBLY - KNURLED KNOB
SINGLE WING NUTPLATE DRILLMOTOR II**

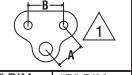
8001312 (1 OF 1)

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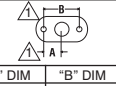
DRILL MOTOR MODEL NO.		PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.)		ITEM 2 FOOT ASSY. (TYPE OPTION)		ITEM 3 MAT. THK. COLLET GRIP RANGE	ITEM 3 COLLET CLAMP (LENGTH OPTION)	ITEM 4 MANDREL CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER CLAMP COLLET	ITEM 11 SPACER BLOCK		
"A" DIM	"B" DIM	MIN.	MAX.	DRILL DIA.	MAX C/SINK DIA. (SHANK DIA.)	STANDARD TYPE	COOLANT TYPE	COLLET LENGTH (CODE)	CLAMP (LENGTH OPTION)	CLAMP (LENGTH OPTION)										
.203	.219	SW203	.1094	.1130	.067 or .098	.1875	7002800	.02/.27 .27/.46	7002985	7002984	NOT REQ'D.	1012034	8000798	7000	8000801	8000803	7002801	8000811		
			.1160	.1200	.067 or .098	.1875	7002800	.02/.27 .27/.46	1050072 1050084	1296097 1296103										
			.1400	.1450	.067 or .098	.1875	7003094	.02/.27 .27/.46	1050357 1050369	1053140 1053152	NOT REQ'D.	1012034	8001247	600						
.218	.219	SW218	.1250	.1300	.067 or .098	.1875	7003072	.02/.27 .27/.46	1050175 1050187	1053036 1053048	NOT REQ'D.	1012034	8000798	7000	8000801	8000803	7002803	8000811		
			.1400	.1450	.067 or .098	.1875	7002802	.02/.27 .27/.46	1053057 1050369	1053140 1053152										
			.1605	.1665	.067 or .098	.1875	7003106	.02/.27 .27/.46	1050630 1050643	1053243 1053255										
			.1710	.1770	.067 or .098	.1875	7003067	.02/.27 .27/.46	1050783 1050795	1053370 1053383										
			.1915	.1975	.067 or .098	.1875		.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022	8001247	600						
			.2180	.2240	.067 or .098	.1875	7003034	.02/.27 .27/.46	1051416 1051428	1053723 1053735	NOT REQ'D.									
.234	.219	SW234	.1550	.1610	.067 or .098	.1875	7003108	.02/.27 .27/.46	1050540 1050552	1053243 1053255	NOT REQ'D.	1012022	8000798	7000	8000801	8000803	7002803	8000811		
			.1605	.1685	.067 or .098		7003073	.02/.27 .27/.46	1050630 1050642	1053243 1053255	NOT REQ'D.	1012022								
			.1665	.1715	.067 or .098		7002271	.02/.27 .27/.46	1050709 1050710	1053370 1053383	NOT REQ'D.	1012022								
			.1710	.1770	.067 or .098	.1875	7003088	.02/.27 .27/.46	1050783 1050795	1053370 1053383	NOT REQ'D.									
			.1915	.1975	.067 or .098	.1875	7002889	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022								
			.2180	.2240	.067 or .098	.1875	7003087	.02/.27 .27/.46	1051416 1051428	1053723 1053735	NOT REQ'D.	1012022							8001247	600
			.2490	.2550	.067 or .098	.1875	7002960	.02/.27 .27/.46	1051890 1051908	1053929 1053930	NOT REQ'D.	1012022								
.250	.219	SW250	.1865	.1925	.067 or .098	.1875	7002798	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022	8000798	7000	8000801	8000803	7002799	8000811		
			.1915	.1975	.067 or .098	.1875	7002929	.02/.27 .27/.46	1051130 1051143	1053462 1053474										
			.2180	.2240	.067 or .098	.1875	7002947	.02/.27 .27/.46	1051416 1051428	1053723 1053735									8001247	600
			.2800	.2860	.067 or .098	.1875	7003069	.02/.27 .27/.46	1052287 1052299	1054132 1054144										
.281	.219	SW281	.2490	.2550	.067 or .098	.1875	7002963	.02/.27 .27/.46	1051890 1051908	1053929 1053930	NOT REQ'D.	1012022	8000798	7000	8000801	8000803	7002964	8000811		
												8000459	600							
8.5 mm (.335 in)	8.0 mm (.315 in)	SW8.5 mm (.335 in)	.1160	.3800	.067 or .098	.1875	5427599	.02/.27 .27/.46	△	△	△	△	8000432	7000	8001309	8001305	1007713	8000542		
												8000459	600							
.344	.312	SW344	.1160	.3800	.067 or .098	.1875	1049136	.02/.27 .27/.46	5431049	△	△	△	△	8000432	7000	8001309	8001305	1007713	8000505	
			.1160	.3800	.098 or .1285	.2500	1263730	5431050	.02/.27 .27/.46					8000459	600					
9.5 mm (.374 in)	8.0 mm (.315 in)	SW9.5 mm (.374 in)	.1160	.3800	.067 or .098	.1875	5427605	.02/.27 .27/.46	5431062	△	△	△	△	8000432	7000	8001309	8001305	5427721	8000542	
												8000459	600							
11.0 mm (.433 in)	8.0 mm (.315 in)	SW11.0 mm (.433 in)	.1160	.3800	.067 or .098	.1875	7003075	.02/.27 .27/.46					8000432	7000	8001309	8001305	5427733	8000542		
			.1160	.3800	.098 or .1285	.2500	5427617	5431074	.02/.27 .27/.46	△	△	△	△	8000459					600	
.468	.312	SW468	.1160	.3800	.067 or .098	.1875	1224487	.02/.27 .27/.46	5431086	△	△	△	△	8000432	7000	8001309	8001305	5411622	8000505	
											8000459	600								
.500	.312	SW500	.1160	.3800	.067 or .098	.1875	1049148	.02/.27 .27/.46	5431098	△	△	△	△	8000432	7000	8001309	8001305	1007749	8000505	
			.1160	.3800	.098 or .1285	.2500	5411002	5431104	.02/.27 .27/.46											
			.4050	.4110	.067 or .098	.1875	7002928		.02/.27 .27/.46	1208032 1240390	1208068 1240377	NOT REQ'D.	1012022	8000459	600					
13.0 mm (.512 in)	8.0 mm (.315 in)	SW13.0 mm (.512 in)	.1160	.3800	.098 or .1285	.2500	5427629	.02/.27 .27/.46	5431116	△	△	△	△	8000432	7000	8001309	8001305	5427745	8000542	
																				8000459

DRILL MOTOR MODEL NO.		PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.)		ITEM 2 FOOT ASSY. (TYPE OPTION)		MAT. THK. (COLLET GRIP RANGE, COLLET LENGTH CODE)	ITEM 3 COLLET, CLAMP (LENGTH OPTION)	ITEM 4 MANDREL, CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER, CLAMP COLLET	ITEM 11 SPACER BLOCK								
"A" DIM	"B" DIM	MIN.	MAX.	DRILL DIA.	MAX C-SINK DIA (SHANK)	STANDARD TYPE	COOLANT TYPE																			
.258	.219	MM258	.1655 .1715	.067 or .098	.1875	7003058		.02/.27 .27/.46	1050709 1050710	1053370 1053383	NOT REQ'D.	1012022	8000798	7000	8000801	8000803	7003059	8000811								
.273	.219	MM273	.1865 .1925	.067 or .098	.1875	7002890		.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022	8000798	7000	8000801	8000803	7002544	8000811								
			.1915 .1975	.067 or .098	.1875	7002543		.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022														
			.2180 .2240	.067 or .098	.1875	7002804		.00/.22 .27/.46	7002806 1332338	7002805 1053735	NOT REQ'D.	1012022														
			.2490 .2550	.067 or .098	.1875	7002907		.02/.27 .27/.46	1332600 1332399	1054132 1053930	NOT REQ'D.	1012022														
			.2800 .2860	.067 or .098	.1875	7003071		.02/.27 .27/.46	1052080 1052093	1054065 1054077	NOT REQ'D.	1012022														
.302	.219	MM302	.2595 .2655	.067 or .098	.1875	7002808		.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022	8000498	7000	8000801	8000803 MODIFIED	7002809	8000811								
			.1865 .1925			7002946		.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022														
			.1400 .1450			7003068		.02/.27 .27/.46	1050357 1050369	1053140 1053152	NOT REQ'D.	1012022														
			.2490 .2550			7003033		.02/.27 .27/.46	1051890 1051906	1053929 1053930	NOT REQ'D.	1012022														
.383	.269	MM383	.1160 .3800	.098 or .1285	.2500	7003121		.02/.27	4	4	4	5	8000798	7000	8000801	8002808 8002812	7003122	8003135								
.203	.287	MM203	.1605 .1665	.067 or .098	.1875	7003060		.02/.27	1050630	1053243	N/R	1012022	8000798	7000	8000801	8000803	7003061	8002637								
.218	.308	MM218	.1406	.067 or .098	.1875	7003076		.02/.27	1050357	1053140	NOT REQ'D.	1012034	8000798	7000	8000801	8007285	7003077	8002772								
.375	.300	MM375											8000432	7000	8001309	8001305	7002489	8000551								
			.1160 .3800	.098 or .1285	.2500	7002485		.02/.27 .27/.46	4	4	4	5	8000459	600	8001309	8001305 MODIFIED	7002490	8000551								
.463	.300	MM463											8000432	7000	8001309	8001305	7002490	8000551								
			.1160 .3800	.098 or .1285	.2500	7002486		.02/.27 .27/.46	4	4	4	5	8000459	600	8001309	8001305	7002490	8000551								
.234	.331	MM234	.1400 .1450	.067 or .098	.1875	5415044	5431128	.02/.27 .27/.46	1050357 1050369	1053140 1053152	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	1007828	8000543								
			.1500 .1560	.067 or .098	.1875	5440889	5440890	.02/.27 .27/.46	1050460 1050473	1053243 1053255	NOT REQ'D.	1012034														
			.1655 .1715	.067 or .098	.1875	5411634	5431141	.02/.27 .27/.46	1050709 1050710	1053370 1053832	NOT REQ'D.	1012022														
			.1710 .1770	.067 or .098	.1875	5423764	5431153	.02/.27 .27/.46	1050783 1050795	1053370 1053383	NOT REQ'D.	1012022														
			.1760 .1820	.067 or .098	.1875	5002643	5431165	.02/.27 .27/.46	1050849 1050850	1053370 1053383	NOT REQ'D.	1012022														
			.1865 .1925	.067 or .098	.1875	5440944	5440958	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022														
			.1915 .1975	.067 or .098	.1875	5411646	5431177	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022														
			.2180 .2240	.067 or .098	.1875	5003349	5431189	.02/.27 .27/.46	1238875 1332338	1053723 1053735	NOT REQ'D.	1012022														
6.0mm (.236 in.)	8.48mm (.334 in.)	MM6.0mm (.236 in.)	.1160 .1200	.067 or .098	.1875	5427630	5431190	.02/.27 .27/.46	1050072 1050084	1296097 1296103	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	1007828	8000544								
			.1200 .1240	.067 or .098	.1875	5427630	5431190	.02/.27 .27/.46	1050096 1294076	1296097 1296103	NOT REQ'D.	1012034	8000459	600	8001309	8001305	1007828	8000544								
			.1230 .1280	.067 or .098	.1875	5427630	5431190	.02/.27 .27/.46	1050102 1050114	1053036 1053048	NOT REQ'D.	1012034	8000459	600	8001309	8001305	1007828	8000544								
.250	.354	MM250	.1550 .1610	.067 or .098	.1875	7002561		.02/.27 .27/.46	1050540 1050552	1053243 1053255	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	1007750	8000545								
			.1605 .1665	.067 or .098	.1875	5437817	5437829	.02/.27 .27/.46	1050630 1050643	1053243 1053255	NOT REQ'D.	1012034														
			.1865 .1925	.067 or .098	.1875	5002655	5431207	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022														
			.1915 .1975	.067 or .098	.1875	1049173	5431219	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022														
			.2180 .2240	.067 or .098	.1875	7002516		.02/.27 .27/.46	1238875 1332338	1053723 1053735	NOT REQ'D.	1012022														
			.2335 .2395	.067 or .098	.1875	5414696	5431220	.02/.27 .27/.46	1051659 1207398	1053814 1053826	NOT REQ'D.	1012022														
			.2490 .2550	.067 or .098	.1875	1203034	5431232	.02/.27 .27/.46	1232381 1332399	1053929 1053930	NOT REQ'D.	1012022														
.281	.398	MM281	.1865 .1925	.067 or .098	.1875	5443945	5446739	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022	8000432	7000	8001309	8001305	5001535	8000546								
			.2490 .2550	.067 or .098	.1875	5001444	5431244	.02/.27 .27/.46	1051890 1051908	1053929 1053930	NOT REQ'D.	1012022	8000459	600	8001309	8001305	7002490	8000558								
			.2700 .2760	.067 or .098	.1875	7003092		.02/.27	1208019	1054065	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	7002490	8000558								
.482	.400	MM482	.1160 .3800	.098 or .1285	.2500	7002492		.02/.27 .27/.46	4	4	4	5	8000459	600	8001309	8001303	5427757	8000547								
8.50mm (.335 in.)	12.02mm (.473 in.)	MM8.5mm (.335 in.)	.1160 .3800	.067 or .098	.1875	5426742	5431256	.02/.27 .27/.46	4	4	4	5	8000432	7000	8001309	8001303	5427757	8000547								
													8000459	600	8001309	8001303	5427757	8000547								

		DRILLMOTOR MODEL NO.	PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.) MAX C'SINK DIA. DRILL DIA. SHANK DIA.		ITEM 2 FOOT ASSY. (TYPE OPTION) STANDARD TYPE COOLANT TYPE		MAT. THK. COLLET GRIP RANGE, COLLET LENGTH (CODE)	ITEM 3 COLLET, CLAMP (LENGTH OPTION)	ITEM 4 MANDREL, CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER, CLAMP COLLET	ITEM 11 SPACER BLOCK
"A" DIM	"B" DIM		MIN.	MAX.															
.344	.486	MM344	.1160	.3800	.067 or .098	.1875	1049185	5431268	.02/.27 .27/.46	△4	△4	△4	△5	8000432	7000	8001309	8001303	1007725	8000548
.414	.486	MM414	.1160	.3800	.067 or .098	.1875	7003079		.02/.27 .27/.46	△4	△4	△4	△5	8000932 8000459	7000 600	8001309	8001303	7003080	8002774
11.0mm (.433 in)	15.56mm (.612 in)	MM11.0mm (.433 in)												8000432	7000	8001309	8001303	1007774	8000552
			.1160	.3800	.098 or .1285	.2500	5427654	5431323	.02/.27 .27/.46	△4	△4	△4	△5	8000459	600				
.437	.618	MM437	.1160	.3800	.067 or .098	.1875	5002667	5431335	.02/.27 .27/.46	△4	△4	△4	△5	8000432	7000	8001309	8001303	1007774	8000553
														8000459	600				
.468	.662	MM468	.1710	.1770	.067 or .098	.1875	5438354	5438366	.02/.27 .27/.46	1050783	1053370	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	5438378	8000554
			.2180	.2240	.067 or .098	.1875	7003110		.02/.27 .27/.46	1050795	1053383			8000459	600				
										1051416	1053723								
.480	.688	MM480	.1160	.3820	.067 or .098	.1875	7003111		.02/.27 .27/.46	1051428	1053735			8000432 8000459	7000 600	8001309	8001303	7003080	8000482
.500	.706	MM500	.1160	.3800	.067 or .098	.1875	1049215	5431347	.02/.27 .27/.46	△4	△4	△4	△5	8000432	7000	8001309	8001303	1007737	8000555
			.1160	.3800	.098 or .1285	.2500	1049227	5431359	.02/.27 .27/.46	△4	△4	△4	△5						
			.3845	.3905		.2500	7003031												
			.3895	.3955	.067 or .098	.1875	5002679	5431360	.02/.27 .27/.46	1207477	1054946	NOT REQ'D.	1012022	8000459	600				
			.3895	.3955	.098 or .1285	.2500	5001523	5431372	.02/.27 .27/.46	1207477	1054946	NOT REQ'D.	1012022						
			.4365	.4420	.098 or .1285	.2500	7003032		.02/.27 .27/.46	1052937	1055082			8000432	7000				
			.3790	.3850	.098 or .1285	.2500	7003070		.02/.27 .27/.46	1294349	1296115		8000459	600	8001309	8001303	7003080	8000482	
									.02/.27 .27/.46	1250498	1254843		8000432	7000					
									.02/.27 .27/.46	1294222	1054855		8000459	600					
.515	.707	MM515	.1160	.3800	.067 or .098	.1875	7003081		.02/.27 .27/.46	△4	△4	△4	△5	8000432 8000459	7000 600	8001309	8001303	7003082	8002775
.596	.707	MM596	.1160	.3800	.067 or .098	.1875	7003089		.02/.27 .27/.46	△4	△4	△4	△5	8000432 8000459	7000 600	8001309	8001303	7003090	8002775
13.0mm (.512 in)	18.38mm (.724 in)	MM13.0mm (.512 in)	.1160	.3800	.098 or .1285	.2500	5427666	5431384	.02/.27 .27/.46	△4	△4	△4	△5	8000432	7000	8001309	8001303	5427769	8000556
														8000459	600				
.625	.884	MM625												8000433	7000	8001310	8001303	1007804	8000557
			.4990	.5050	.1285 or .1590	.3125	1049239	5431396	.02/.27 .27/.46	1052950	1187764	NOT REQ'D.	1012022	8000460	600				
										1052962	1055197								
16.0mm (.630 in)	22.63mm (.891 in)	MM16.0mm (.630 in)	.4105	.4165	.098 or .1285	.2500	5427678	5431402	.02/.27 .27/.46	1208044	1208068	NOT REQ'D.	1012022	8000433	7000	8001310	8001303	1007804	8000559
										1294271	1240377			8000460	600				
.562	.793	MM562	.1160	.3800	.098 or .1285	.2500	7003049		.02/.27 .27/.46	△4	△4	△4	△5	8000433	7000	8001310	8001303	7003051	8002566
			.3895	.3955	.098 or .1285	.2500	7003050		.02/.27 .27/.46	1207477	1054946	NR	1012022	8000460	600				
									.02/.27 .27/.46	1207489	1054958	NR	1012022						
.562	.793	MM562	.1160	.3800	.067 or .098	.1875	7003054		.02/.27 .27/.46	△4	△4	△4	△5	8000433	7000				
			.3845	.3905	.067 or .098	.1875	7003055		.02/.27 .27/.46	1052913	1054946	NOT REQ'D.	1012022	8000460	600				
										1052925	1054958								

**MASTER ASSEMBLY - KNURLED KNOB
DOUBLE WING NUTPLATE DRILLMOTOR II-B 8001314 (1 OF 6)**

A DIM		B DIM		DRILL MOTOR MODEL NO.	PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.)		ITEM 2 FOOT ASSY. (TYPE OPTION)		MAT THK COLLET GRIP RANGE	ITEM 3 COLLET CLAMP (LENGTH OPTION)	ITEM 4 MANDREL CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER CLAMP COLLET	ITEM 11 SPACER BLOCK
MIN.	MAX.	MIN.	MAX.	DRILL DIA.	MAX CS/SINK DIA	SINK DIA	STANDARD TYPE	COOLANT TYPE													
.172	.343	DW343	.1350	.1400	.0670	.1250	5435808	5435821	.02/.27	1050278	1053140	NOT REQ'D.	1012034	8000432	7000	8001309	8001307	1007762	8000506		
							1049240	5431414	.00/.22	1050357	1053140	NOT REQ'D.	1012034								
							5440920	5440932	.02/.27	1050460	1053243	NOT REQ'D.	1012034								
							5002680	5431426	.02/.27	1190994	1053243	NOT REQ'D.	1012034								
							7002574		.02/.27	1332284	1053462	NOT REQ'D.	1012022								
									.27/.46	1223902	1053474										
.188	.375	DW375	.1550	.1610	.0670	.1250	5002692	5431438	.02/.27	1050540	1053243	NOT REQ'D.	1012034	8000432	7000	8001309	8001307	1007701	8000560		
									.27/.46	1050552	1053255										
.203	.406	DW406	.1160	.1200	.067 or .098	.1875	5001250	5431451	.02/.27	1050072	1296097	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	1007762	8000561		
							5001250	5431451	.02/.27	1050096	1296097	NOT REQ'D.	1012034								
							5001250	5431451	.02/.27	1050102	1053036	NOT REQ'D.	1012034								
							5002709	5431463	.02/.27	1050114	1053048										
							1265684	5431475	.02/.27	1050175	1053036	NOT REQ'D.	1012034								
							5440907	5440919	.02/.27	1050187	1053048	NOT REQ'D.	1012034								
							5437830	5437842	.02/.27	1050540	1053243	NOT REQ'D.	1012034								
							5002710	5431487	.02/.27	1050552	1053255	NOT REQ'D.	1012034								
							1049252	5431499	.02/.27	1190994	1053243	NOT REQ'D.	1012034								
							5002722	5431505	.02/.27	1332235	1053255	NOT REQ'D.	1012034								
									.27/.46	1332247	1053370	NOT REQ'D.	1012022								
									.27/.46	1332259	1053383	NOT REQ'D.	1012022								
.218	.437	DW437	.1160	.1200	.067 or .098	.1875	7003074		.02/.27	1050072	1296097	NOT REQ'D.	1012034	8000432	7000	8001309	8001305	1007701	8000562		
									.27/.46	1050084	1296103										
							7000528		.02/.27	1050175	1053035	NOT REQ'D.	1012034								
							5438640	5438652	.02/.27	1050187	1053048	NOT REQ'D.	1012034								
							5441237	5441249	.02/.27	1050254	1053036	NOT REQ'D.	1012034								
							1049264	5431517	.02/.27	1291774	1053048										
									.27/.46	1050278	1053148	NOT REQ'D.	1012034								
									.27/.46	1090290	1053152	NOT REQ'D.	1012034								
									.02/.27	1050357	1053140	NOT REQ'D.	1012034								
									.27/.46	1050369	1053152	NOT REQ'D.	1012034								
									.02/.27	1050412	1053140	NOT REQ'D.	1012034								
									.27/.46	1050424	1053152	NOT REQ'D.	1012034								
									.02/.27	1050540	1053243	NOT REQ'D.	1012034								
									.27/.46	1050552	1053255	NOT REQ'D.	1012034								
									.02/.27	1050630	1053243	NOT REQ'D.	1012034								
									.27/.46	1050643	1053255	NOT REQ'D.	1012034								
									.02/.27	1050709	1053370	NOT REQ'D.	1012022								
									.27/.46	1050710	1053383	NOT REQ'D.	1012022								
									.02/.27	1050783	1053370	NOT REQ'D.	1012022								
									.27/.46	1050795	1053383	NOT REQ'D.	1012022								
		.02/.27	1332284	1053462	NOT REQ'D.	1012022															
		.27/.46	1223902	1053474																	
		.02/.27	1206485	1053462	NOT REQ'D.	1012022															
		.27/.46	1206497	1053474																	
		.02/.27	1332296	1053620	NOT REQ'D.	1012022															
		.27/.46	1332302	1053632	NOT REQ'D.	1012022															
		.02/.27	1332508	1053723	NOT REQ'D.	1012022															
		.27/.46	1223914	1053735	NOT REQ'D.	1012022															
		.02/.27	1332521	1053723	NOT REQ'D.	1012022															
		.27/.46	1332533	1053735	NOT REQ'D.	1012022															
.225	.450	DW450	.1400	.1450	.067 or .098	.1875	5002771	5431608	.02/.27	1050357	1053140	NOT REQ'D.	1012034	8000432	7000	8001309	8001303	1007701	8000563		
							5002783	5431621	.02/.27	1050369	1053152	NOT REQ'D.	1012022								
.234	.468	DW468	.1250	.1300	.067 or .098	.1875	7002807		.02/.27	1050175	1053036	NOT REQ'D.	1012034	8000432	7000	8001309	8001303	1007762	8000564		
							5441754	5441766	.02/.27	1050348	1053355										
							1049330	5431633	.02/.27	1050278	1053140	NOT REQ'D.	1012034								
									.27/.46	1050290	1053152	NOT REQ'D.	1012034								
									.02/.27	1050357	1053140	NOT REQ'D.	1012034								
									.27/.46	1050369	1053152	NOT REQ'D.	1012034								
									.02/.27	1050412	1053140	NOT REQ'D.	1012034								
									.27/.46	1050424	1053152	NOT REQ'D.	1012034								
									.02/.27	1050540	1053243	NOT REQ'D.	1012034								
									.27/.46	1050552	1053255	NOT REQ'D.	1012034								
									.02/.27	1050630	1053243	NOT REQ'D.	1012034								
									.27/.46	1050643	1053255	NOT REQ'D.	1012034								
									.02/.27	1050709	1053370	NOT REQ'D.	1012022								
									.27/.46	1050710	1053383	NOT REQ'D.	1012022								
									.02/.27	1332247	1053370	NOT REQ'D.	1012034								
									.27/.46	1332259	1053383	NOT REQ'D.	1012034								
									.02/.27	1050783	1053370	NOT REQ'D.	1012022								
									.27/.46	1050795	1053383	NOT REQ'D.	1012022								
		.02/.27	1050990	1053462	NOT REQ'D.	1012022															
		.27/.46	1051003	1053474																	
		.02/.27	1332284	1053462	NOT REQ'D.	1012022															
		.27/.46	1223902	1053474																	
		.02/.27	1051130	1053462	NOT REQ'D.	1012022															
		.27/.46	1051143	1053474	NOT REQ'D.	1012022															
		.02/.27	1051222	1053620	NOT REQ'D.	1012022															
		.27/.46	1051234	1053632	NOT REQ'D.	1012022															

MASTER ASSEMBLY		KNURLED KNOB DOUBLE WING NUTPLATE DRILLMOTOR II-B										8001314 (2 OF 6)																		
		DRILL MOTOR MODEL NO.	PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.)		ITEM 2 FOOT ASSY. (TYPE OPTION)		ITEM 3 MAT. THK. (COLLET GRIP RANGE)	ITEM 4 COLLET, CLAMP (LENGTH OPTION)	ITEM 5 MANDREL, CLAMP (LENGTH OPTION)	ITEM 6 BUSHING COLLET	ITEM 7 SPRING COLLET	ITEM 8 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 9 GEARS AND GEAR CAP GROUP	ITEM 10 (2 REQ'D.) SPINDLE GROUP	ITEM 11 FINGER, CLAMP COLLET	ITEM 12 SPACER BLOCK											
"A" DIM	"B" DIM	1	MIN.	MAX.	DRILL DIA.	MAX CSK DIA. SHANK DIA.	STANDARD TYPE	COOLANT TYPE																						
.234	.468	DW468	6	.2020	.2080	.067 or .098	.1875	5442382	5442400	.02/.27 .27/.46	1051301 1051313	1053620 1053632	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007762	8000564										
				.2075	.2135	.067 or .098	.1875	5002801	5431736	.00/.22 .27/.46	1051362 1294088	1053620 1053632	NOT REQ'D.	1012022																
				.2125	.2185	.067 or .098	.1875	1198907	5431748	.02/.27 .27/.46	1332314 1332326	1053723 1053735	NOT REQ'D.	1012022																
				.2180	.2240	.067 or .098	.1875	1232812	5431761	.02/.27 .27/.46	1238875 1332338	1053723 1053735	NOT REQ'D.	1012022																
				.2230	.2290	.067 or .098	.1875	5002813	5431773	.02/.27 .27/.46	1332351 1332363	1053723 1053735	NOT REQ'D.	1012022																
				.2335	.2395	.067 or .098	.1875	1049409	5431785	.02/.27 .27/.46	1332545 1332557	1053814 1053826	NOT REQ'D.	1012022																
				.2490	.2550	.067 or .098	.1875	5002825	5431797	.02/.27 .27/.46	1198671 1332569	1053929 1053930	NOT REQ'D.	1012022																
.236	12 mm .472 in.	DW12mm (.472 in)	6	.1915	.1975	.067 or .098	.1875	5438883	5438895	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000565										
				.1550	.1610		.1875	7003064		.02/.27 .27/.46					8000459	600														
.250	.500	DW500	6	.1250	.1300	.067 or .098	.1875	1234614	5431803	.02/.27 .27/.46	1050175 1050187	1053036 1053048	NOT REQ'D.	1012034	8000432	7000														
				.1400	.1450	.067 or .098	.1875	1194975	5431815	.02/.27 .27/.46	1050357 1050369	1053140 1053152	NOT REQ'D.	1012034																
				.1550	.1610	.067 or .098	.1875	1049422	5431827	.02/.27 .27/.46	1050540 1050552	1053243 1053255	NOT REQ'D.	1012034																
				.1605	.1665	.067 or .098	.1875	5443076	5446727	.02/.27 .27/.46	1050630 1050643	1053243 1053255	NOT REQ'D.	1012034																
				.1655	.1715	.067 or .098	.1875	1207234	5431839	.02/.27 .27/.46	1050709 1050710	1053370 1053383	NOT REQ'D.	1012022																
				.1710	.1770	.067 or .098	.1875	7003109		.02/.27 .27/.46	1050783 1050795	1053370 1053383	NOT REQ'D.	1012034																
				.1760	.1820	.067 or .098	.1875	7003078		.02/.27 .27/.46	1050849 1050850	1053370 1050383	NOT REQ'D.	1012034																
				.1815	.1875	.067 or .098	.1875	1285105	5431840	.02/.27 .27/.46	1050886 1050898	1053462 1053474	NOT REQ'D.	1012022																
				.1865	.1925	.067 or .098	.1875	1049446	5431852	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D.	1012022																
				6	.1865	.1925	.067 or .098	.2500	1049458	5431864	.02/.27 .27/.46	1332284 1223902	1053462 1053474	NOT REQ'D.							1012034									
				.1915	.1975	.067 or .098	.1875	1049470	5431876	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D.	1012022																
				6	.1915	.1975	.067 or .098	.2500	1234444	5431888	.02/.27 .27/.46	1206485 1206497	1053462 1053474	NOT REQ'D.							1012022									
				.1970	.2030	.067 or .098	.1875	1049495	5431906	.02/.27 .27/.46	1051220 1051234	1053620 1053632	NOT REQ'D.	1012022																
				.2020	.2080	.067 or .098	.1875	5001808	5431918	.02/.27 .27/.46	1051301 1051313	1053620 1053632	NOT REQ'D.	1012022																
				.2075	.2135	.067 or .098	.1875	1219066	5431931	.02/.27 .27/.46	1051362 1294088	1053620 1053632	NOT REQ'D.	1012022																
				.2125	.2185	.067 or .098	.1875	1049513	5431943	.02/.27 .27/.46	1051374 1205316	1053723 1053735	NOT REQ'D.	1012022																
				.2180	.2240	.067 or .098	.1875	1049537	5431955	.02/.27 .27/.46	1051416 1051428	1053723 1053735	NOT REQ'D.	1012022																
				7	.2180	.2240	.067 or .098	.2500	5002837	5431967	.02/.27 .27/.46	1332508 1223914	1053723 1053735	NOT REQ'D.							1012022									
				.2230	.2290	.067 or .098	.1875	5002849	5431979	.02/.27 .27/.46	1051490 1254091	1053723 1053735	NOT REQ'D.	1012022																
				.2280	.2340	.067 or .098	.1875	1259817	5431980	.02/.27 .27/.46	1051507 1051519	1053814 1053826	NOT REQ'D.	1012022																
				.2335	.2395	.067 or .098	.1875	1205407	5431992	.02/.27 .27/.46	1051659 1207398	1053814 1053826	NOT REQ'D.	1012022																
				.2385	.2445	.067 or .098	.1875	5441079	5441080	.02/.27 .27/.46	1051714 1294106	1053814 1053826	NOT REQ'D.	1012022																
				6	.2440	.2500	.067 or .098	.1875	1218645	5432005	.02/.27 .27/.46	1216703 1332387	1053929 1053930	NOT REQ'D.							1012022									
				6	.2490	.2550	.067 or .098	.1875	1049549	5432017	.02/.27 .27/.46	1232381 1332399	1053929 1053930	NOT REQ'D.							1012022									
				6	.2540	.2600	.067 or .098	.1875	1284939	5432029	.02/.27 .27/.46	1332405 1332417	1053929 1053930	NOT REQ'D.							1012022									
				7	.2595	.2655	.067 or .098	.1875	5007926	5432030	.02/.27 .27/.46	5411658 5411671	1054065 1054077	NOT REQ'D.							1012022									
				7	.2645	.2705	.067 or .098	.1875	1049562	5432042	.02/.27 .27/.46	1191007 1332570	1054065 1054077	NOT REQ'D.							1012022									
				7	.2700	.2760	.067 or .098	.1875	1285117	5432024	.02/.27 .27/.46	1332582 1332594	1054065 1054077	NOT REQ'D.							1012022									
				7	.2800	.2860	.067 or .098	.1875	1005650	5432066	.02/.27 .27/.46	1332600 1332612	1054132 1054144	NOT REQ'D.							1012022									
				.260	.520	DW520	6	.2490	.2550	.067 or .098	.1875	7003101		.02/.27 .27/.46							1232381 1332399	1053929 1053930	NOT REQ'D.	1012022	8000432	7000				8002851
								.1915	.1975	.067 or .098	.1875	7002949		.02/.27 .27/.46							1051130 1051143	1053462 1053474	NOT REQ'D.	1012022	8000459	600				
				.262	.525	DW525	6	.2180	.2240	.067 or .098	.1875	7002948		.02/.27 .27/.46							1051416 1051428	1053723 1053735	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000566
.2335	.2395	.067 or .098	.1875					7003102		.02/.27 .27/.46	1051659 1207396	1053814 1053826	NOT REQ'D.	1012022	8000459	600														
.2490	.2550	.067 or .098	.1875					5419372	5432078	.02/.27 .27/.46	1232381 1332399	1053929 1053930	NOT REQ'D.	1012022																

**MASTER ASSEMBLY - KNURLED KNOB
DOUBLE WING NUTPLATE DRILLMOTOR II-B 8001314 (3 OF 6)**



"A" DIM	"B" DIM	DRILL MOTOR MODEL NO.	PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D)		ITEM 2 FOOT ASSY. (TYPE OPTION)		ITEM 3 MAT THK (COLLET GRIP RANGE)	ITEM 4 COLLET CLAMP (LENGTH OPTION)	ITEM 5 MANOREL. CLAMP (LENGTH OPTION)	ITEM 6 BUSHING COLLET	ITEM 7 SPRING COLLET	ITEM 8 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 9 GEARS AND GEAR CAP GROUP	ITEM 10 (2 REQ'D) SPINDLE GROUP	ITEM 11 FINGER, CLAMP COLLET	ITEM 12 SPACER BLOCK			
			MIN.	MAX.	DRILL DIA.	MAX C-SINK DIA (SHANK DIA)	STANDARD TYPE	COOLANT TYPE														
.275	14mm (.551 in)	DW14mm (.551 in)	.1915	.1975	.067 or .098	.1875	5441730	5441742	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D	1012022									
			.1970	.2030	.067 or .098	.1875	7003062		.02/.27 .27/.46	1051222 1051234	1053620 1053632	NOT REQ'D										
			.2125	.2185	.067 or .098	.1875	7002021		.02/.27 .27/.46	1051374 1205316	1053723 1053735	NOT REQ'D	1012022	8000432	7000							
			.2180	.2240	.067 or .098	.1875	7002981		.02/.27 .27/.46	1051416 1051428	1053723 1053735	NOT REQ'D										
			.2280	.2340	.067 or .098	.1875	5440579	5440580	.02/.27 .27/.46	1051507 1051519	1053814 1053826	NOT REQ'D					8001309	8001303	1007701	8000567		
			.2335	.2395	.067 or .098	.1875	7003052		.02/.27 .27/.46	1051659 1207396	1053814 1053826	NOT REQ'D										
			.2490	.2550	.067 or .098	.1875	5435493	5435638	.02/.27 .27/.46	1232381 1332399	1053929 1053930	NOT REQ'D	1012022	8000459	600							
			.2540	.2600	.067 or .098	.1875	7003053		.02/.27 .27/.46	1051982 1051994	1053929 1053930	NOT REQ'D										
			.2020	.2080	.067 or .098	.1875	5437969	5437970	.02/.27 .27/.46	1051301 1051313	1053620 1053632	NOT REQ'D										
			.281	.562	DW562	.1550	.1610	.067 or .098	.1875	1049586	5432091	.02/.27 .27/.46	1050540 1050552	1053243 1053255	NOT REQ'D	1012034	8000432	7000				
.1655	.1715	.067 or .098				.1875	5002850	5432108	.02/.27 .27/.46	1050709 1050710	1053370 1053383	NOT REQ'D	1012022	8000459	600							
.1865	.1925	.067 or .098				.1875	1049598	5432121	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D										
.1865	.1925	.098 or .1285				.2500	1196923	5432133	.00/.22 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D										
.1915	.1975	.067 or .098				.1875	1217070	5432145	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D										
.1915	.1975	.098 or .1285				.2500	1049616	5432157	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D										
.2075	.2135	.067 or .098				.1875	1232496	5422169	.02/.27 .27/.46	1051362 1294088	1053620 1053632	NOT REQ'D	1012022	8000432	7000							
.2180	.2240	.067 or .098				.1875	1196911	5432170	.02/.27 .27/.46	1051416 1051428	1053723 1053735	NOT REQ'D										
.2230	.2290	.067 or .098				.1875	5002862	5432182	.02/.27 .27/.46	1051490 1254091	1053723 1053735	NOT REQ'D										
.2280	.2340	.067 or .098				.1875	5436783	5436795	.02/.27 .27/.46	1051507 1051519	1053814 1053826	NOT REQ'D										
.2385	.2445	.067 or .098				.1875	7002562		.02/.27 .27/.46	1051714 1294106	1053814 1053826	NOT REQ'D										
.2440	.2500	.067 or .098				.1875	7003104		.02/.27 .27/.46	1051763 1051775	1053929 1053930	NOT REQ'D										
.2490	.2550	.098 or .1285				.1875	1049640	5432194	.02/.27 .27/.46	1051890 1051908	1053929 1053930	NOT REQ'D					8001309	8001303	1007701	8000483		
.2490	.2550	.067 or .098				.2500	1049653	5432200	.02/.27 .27/.46	1232381 1332399	1053929 1053930	NOT REQ'D										
.2540	.2600	.067 or .098				.1875	1049665	5432212	.02/.27 .27/.46	1051982 1051994	1053929 1053930	NOT REQ'D										
.2595	.2655	.067 or .098				.1875	5423090	5432224	.02/.27 .27/.46	1052080 1052093	1054065 1054077	NOT REQ'D										
.2645	.2705	.067 or .098				.1875	5442370	5442394	.02/.27 .27/.46	1052172 1052184	1054065 1054077	NOT REQ'D										
.2700	.2760	.067 or .098				.1875	1232502	5432236	.02/.27 .27/.46	1208019 1294118	1054065 1054077	NOT REQ'D	1012022	8000459	600							
.2750	.2810	.067 or .098				.1875	7002168		.02/.27 .27/.46	1052263 1294131	1054132 1054144	NOT REQ'D										
.2800	.2860	.067 or .098				.1875	1049690	5432248	.02/.27 .27/.46	1052287 1052299	1054132 1054144	NOT REQ'D										
.2800	.2860	.098 or .1285				.2500	5002874	5432261	.02/.27 .27/.46	1332600 1332612	1054132 1054144	NOT REQ'D										
.2855	.2915	.067 or .098				.1875	5002886	5432273	.02/.27 .27/.46	1052366 1052378	1054132 1054144	NOT REQ'D										
.2905	.2965	.067 or .098				.1875	7003028		.02/.27 .27/.46	1207015 1207416	1054272 1054289	NOT REQ'D										
.2960	.3020	.067 or .098				.1875	1243676	5432285	.02/.27 .27/.46	1052408 1207428	1054272 1054284	NOT REQ'D										
.3010	.3070	.067 or .098				.1875	1049707	5432297	.02/.27 .27/.46	1052482 1207441	1054272 1054284	NOT REQ'D										
.3065	.3125	.067 or .098				.1875	1256634	5432303	.02/.27 .27/.46	5003155 5003167	1054363 1054375	NOT REQ'D										
.3115	.3175	.067 or .098				.1875	5414684	5432315	.02/.27 .27/.46	1332429 1332430	1054363 1054375	NOT REQ'D										
.3430	.3490	.067 or .098				.1875	7003119		.02/.27 .27/.46	7003120 1054612	1054612	NOT REQ'D										
.284	.568	DW568				.1915	.1975	.067 or .098	.1875	7002355		.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D	1012022	8000432	7000	8001309	8001303	1007701	8000568
						.2490	.2550	.067 or .098	.1875	7003056		.02/.27 .27/.46	1051890 1051908	1053929 1053930	NOT REQ'D		8000459	600				
.295	.590	DW590	.1605	.1665	.067 or .098	.1875	7002609		.02/.27 .27/.46	1050630 1050643	1053243 1053255	NOT REQ'D										
			.1665	.1715	.067 or .098	.1875	7003093		.02/.27 .27/.46	1050709 1050710	1053370 1053383	NOT REQ'D										
			.1710	.1770	.067 or .098	.1875	1233699	5432327	.02/.27 .27/.46	1050783 1050795	1053370 1053383	NOT REQ'D	1012022	8000432	7000	8001309	8001303	1007701	8000569			
			.1865	.1925	.067 or .098	.1875	1207374	5432339	.02/.27 .27/.46	1050990 1051003	1053462 1053474	NOT REQ'D										
			.1915	.1975	.067 or .098	.1875	1209553	5432340	.02/.27 .27/.46	1051130 1051143	1053462 1053474	NOT REQ'D										
.1970	.2030	.067 or .098	.1875	1049732	5432352	.02/.27 .27/.46	1051222 1051234	1053620 1053632	NOT REQ'D													

SPACEMATIC *ULTRALITE*[®]
NUTPLATE DRILLMOTOR II

MASTER ASSEMBLY - KNURLED KNOB
DOUBLE WING NUTPLATE DRILLMOTOR II-B 8001314 (4 OF 6)

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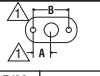





















DRILL MOTOR MODEL NO.		PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.) DRILL DIA.		ITEM 2 FOOT ASSY. (TYPE OPTION) STANDARD TYPE COOLANT TYPE		MAT. THK. (COLLET GRIP RANGE)	ITEM 3 COLLET CLAMP (LENGTH OPTION)	ITEM 4 MANDREL CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER CLAMP COLLET	ITEM 11 SPACER BLOCK	
"A" DIM	"B" DIM	MIN.	MAX.	DRILL DIA.	CSINK DIA. MAX SHANK DIA.														
.295	.590	DW590	.2020	.2080	.067 or .098	.1875	5437945	5437957	.02/.27	1051301	1053620	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000569
			.2125	.2185	.067 or .098	.1875	7003103		.27/.46	1051313	1053632								
			.2180	.2240	.067 or .098	.1875	1049744	5432364	.02/.27	1051374	1053723								
			.2440	.2500	.067 or .098	.1875	5436801	5436813	.27/.46	1205316	1053735								
			.2490	.2550	.067 or .098	.1875	1239247	5432376	.02/.27	1051416	1053723								
			.2540	.2600	.098 or .1285	.2500	1049719	5432388	.27/.46	1051428	1053735								
			.2800	.2860	.067 or .098	.1875	1258163	5432406	.02/.27	1051763	1053929								
.300	.600	DW600	.1865	.1925	.067 or .098	.1875	7002541		.27/.46	1051775	1053930	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000570
			.2180	.2240	.067 or .098	.1875	7002724		.02/.27	1050990	1053462								
.313	.625	DW625	.1160	.3800	.067 or .098	.1875	5412778	5432418	.27/.46	1051003	1053474	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000571
			.3115	.3175	.098 or .1285	.2500	5002898	5432431	.02/.27	1051416	1053723								
8mm (.314in)	16mm (.629in)	DW16mm (.629in)	.1160	.3800	.067 or .098	.1875	5454827		.27/.46	1051428	1053735	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000572
			.1550	.1610	.098 or .1285	.2500	7003023		.02/.27	1332429	1054363								
			.1605	.1665	.098 or .1285	.2500	7003035		.27/.46	1332430	1054375								
			.1970	.2030	.098 or .1285	.2500	7003024		.02/.27	1050540	1053243								
			.2020	.2080	.098 or .1285	.2500	7003036		.27/.46	1053255	1055422								
			.2335	.2395	.098 or .1285	.2500	5435584	5435626	.02/.27	1050630	1053243								
.328	.656	DW656	.1160	.3800	.067 or .098	.1875	5002904	5432443	.27/.46	1050643	1053255	N/R	1012034	8000432	7000	8001309	8001303	1007701	8000573
									.02/.27	1051222	1053620								
8.55mm (.335 in)	17mm (.669 in)	DW17mm (.669 in)	.1160	.3800	.067 or .098	.1875	5427691	5432455	.27/.46	1051234	1053632	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000574
									.02/.27	1051301	1053620								
.344	.688	DW688	.1160	.3800	.067 or .098	.1875	1049810	5432467	.27/.46	1051313	1053632	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000482
			.1160	.3800	.098 or .1285	.2500	1049823	5432479	.02/.27	1051890	1053929								
			.2450	.2550	.1285 or .1590	.3125	5002916	5432480	.27/.46	1051908	1053930								
.3543	.7087	DW18mm	.1160	.3800	.067 or .098	.1875	7003083		.27/.46	1051908	1053930	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000655
			.1160	.3800	.098 or .1285	.2500	8001654		.02/.27	1294325	1055082								
.359	.718	DW718	.1160	.3800	.067 or .098	.1875	1049860	5432492	.27/.46	1294337	1296115	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000575
			.1160	.3800	.098 or .1285	.2500	1208901	5432509	.02/.27	1052597	1054363								
			.3115	.3175	.1285 or .1590	.3125	5415949	5432510	.27/.46	1052603	1054375								
9.5mm (.374 in)	19mm (.748 in)	DW19mm (.748 in)	.1160	.3800	.067 or .098	.1875	5412043	5432522	.27/.46	1294337	1296115	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000576
			.4315	.4375	.098 or .1285	.2500	7003037		.02/.27	1294337	1296115								
.375	.750	DW750	.1160	.3800	.067 or .098	.1875	1049872	5432534	.27/.46	1294337	1296115	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000577
			.1160	.3800	.098 or .1285	.2500	5002928	5432546	.02/.27	1250498	1054843								
			.3790	.3850	.067 or .098	.1875	7000442		.27/.46	1294222	1054855								
			.3845	.3905	.067 or .098	.1875	7000443		.02/.27	1052913	1054946								
			.4365	.4425	.067 or .098	.1875	5002941	5432558	.27/.46	1052925	1054958								
			.4365	.4425	.098 or .1285	.2500	1197563	5432571	.02/.27	1052937	1055082								
			.4680	.4740	.067 or .098	.1875	1186991	5432583	.27/.46	1332442	1055082								
			.4990	.5050	.067 or .098	.1875	5002953	5432595	.02/.27	1332454	1296115								
.376	.752	DW752	.1160	.3600	.067 or .098	.1875	7003096		.27/.46	1187351	1187375	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8002822
									.02/.27	1294441	1296127								
.391	.781	DW781	.1160	.3800	.067 or .098	.1875	7003018		.27/.46	1187764	1187764	NOT REQ'D.	1012022	8000432	7000	8001309	8001303	1007701	8000578
			.1160	.3800	.098 or .1285	.2500	1260479	5432601	.02/.27	1332478	1055197								

**MASTER ASSEMBLY - KNURLED KNOB
DOUBLE WING NUTPLATE DRILLMOTOR II-B 8001314 (5 OF 6)**



DRILL MOTOR MODEL NO.		PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D)		ITEM 2 FOOT ASSY. (TYPE OPTION)		ITEM 3 MAT THK. (COLLET GRIP RANGE)	ITEM 3 COLLET CLAMP (LENGTH OPTION)	ITEM 4 MANDREL CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D) SPINDLE GROUP	ITEM 10 FINGER CLAMP COLLET	ITEM 11 SPACER BLOCK			
"A" DIM	"B" DIM	MIN.	MAX.	DRILL DIA.	MAX CSINK DIA. / SHANK DIA.	STANDARD TYPE	COOLANT TYPE	COLLET LENGTH (CODE)	CLAMP LENGTH (OPTION)	CLAMP LENGTH (OPTION)											
10mm (.394in)	20mm (.787 in)	DW20mm (.787 in)						.02/.27					8000432	7000	8001309	8001303	1007701	8000579			
			.1160	.3800	.098 or .1285	.2500	7002499		.27/.46	△4	△4	△4	△5	8000459					600		
.431	.861	DW861	.1160	.3800	.067 or .098	.1875	5415950	5432613	.02/.27				8000433	7000	8001310	8001303	1007701	8000580			
									.27/.46	△4	△4	△4	△5	8000460					600		
11mm (.433 in)	22mm (.868 in)	DW22mm (.866 in)	.1160	.3800	.067 or .098	.1875	1049884	5432625	.02/.27				8000433	7000	8001310	8001303	1007701	8000581			
			.1160	.3800	.098 or .1285	.2500	7000130		.27/.46	△4	△4	△4	△5	8000433					7000		
			.1160	.3800	.1285 or .1590	.3125	5426066	5432637	.02/.27					8000460					600		
.438	.875	DW875	.1160	.3800	.067 or .098	.1875	1049896	5432649	.02/.27					8000433	7000	8001310	8001303	1007701	8000582		
			.1160	.3800	.098 or .1285	.2500	5002965	5432650	.02/.27					8000433	7000						
			.1160	.3800	.1285 or .1590	.3125	7003091		.02/.27					8000460	600						
			.3790	.3855	.067 or .098	.1875	7000475		.02/.27	1250498	1054843				8000433					7000	
			.3790	.3805	.098 or .1285	.2500	7002218		.02/.27	1250498	1054843	NOT REQ'D.	1012022		8000460					600	
			.3845	.3905	.067 or .098	.1875	1240328	5432662	.02/.27	1052913	1054946	NOT REQ'D.	1012022								
			.3895	.3955	.067 or .098	.1875	1218657	5432674	.02/.27	1207477	1054946	NOT REQ'D.	1012022								
			.4000	.4060	.067 or .098	.1875	5002977	5432686	.02/.27	1294246	1208068	NOT REQ'D.	1012022								
			.4000	.4060	.098 or .1285	.2500	5002989	5432698	.02/.27	1294246	1208068	NOT REQ'D.	1012022	8000460	600						
			.4050	.4110	.067 or .098	.1875	5002990	5432704	.02/.27	1208032	1208068	NOT REQ'D.	1012022								
			.4050	.4110	.098 or .1285	.2500	7002515		.02/.27	1208032	1208068	NOT REQ'D.	1012022								
			.4365	.4425	.067 or .098	.1875	5003003	5432716	.02/.27	1052937	1055082	NOT REQ'D.	1012022								
			.4990	.5050	.067 or .098	.1875	5003015	5432728	.02/.27	1052950	1187764	NOT REQ'D.	1012022								
			.450	.900	DW900	.1160	.3800	.067 or .098	.1875	5422978	5422741	.02/.27								8000433	7000
									.27/.46	△4	△4	△4	△5	8000460	600						
.4528	.9055	DW23mm	.1160	.3800	.067 or .098	.1875	7003084		.02/.27				8000433	7000	8001310	8001303	1007701	8000585			
									.27/.46	△4	△4	△4	△4	8000460					600		
.492 (12.5mm)	.984 (25mm)	DW25mm	.1160	.3800	.067 or .098	.1875	7003086		.02/.27				8000433	7000	8001310	8001303	1007701	7003039			
			.5510	.5570	.098 or .1285	.2500	7003038		.02/.27	1294751	1246206	NOT REQ'D	1012022	8000460					600		
.500	1.000	DW1000	.1160	.3800	.067 or .098	.1875	1049914	5432753	.02/.27						8001310	8001303	1007701	8000584			
			.1160	.3800	.098 or .1285	.2500	1049926	5432765	.02/.27												
			.1160	.3800	.1285 or .1590	.3125	1049938	5432777	.02/.27												
			.3845	.3905	.098 or .1285	.2500	5442874	5442886	.02/.27	1052913	1054946	NOT REQ'D.	1012022	8000433					7000		
			.3895	.3955	.1285 or .1590	.3125	5003027	5432789	.02/.27	1207477	1054946	NOT REQ'D.	1012022	8000460					600		
			.4000	.4060	.098 or .1285	.2500	5003039	5432790	.02/.27	1207489	1054958	NOT REQ'D.	1012022								
			.4050	.4110	.098 or .1285	.2500	1293667	5432807	.02/.27	1294246	1208068	NOT REQ'D.	1012022								
			.4315	.4375	.067 or .098	.1875	7003017		.02/.27	1208032	1208068	NOT REQ'D.	1012022								
			.4365	.4425	.067 or .098	.1875	1049975	5432819	.02/.27	1240390	1240377	NOT REQ'D.	1012022	8000433					7000		
									.27/.46	1294325	1055082	NOT REQ'D	1012022	8000460					600		
.500	1.000	DW1000	.4365	.4425	.098 or .1285	.2500	5003040	5432820	.02/.27						8001310	8001303	1007701	8000584			
			.4520	.4580	.067 or .098	.1875	1239065	5432832	.00/.22												
			.4520	.4580	.098 or .1285	.2500	1331267	5432844	.02/.27	1294337	1241345	NOT REQ'D.	1012022								
			.4680	.4740	.067 or .098	.1875	7002457		.02/.27	1241333	1241345	NOT REQ'D.	1012022								
			.4990	.5050	.098 or .1285	.2500	5003052	5432856	.02/.27	1052949	1055100	NOT REQ'D.	1012022								
			.5460	.5520	.098 or .1285	.2500	5003064	5432868	.02/.27	1187351	1187375	NOT REQ'D.	1012022								
			.5615	.5675	.098 or .1285	.2500	5003076	5432881	.02/.27	1294441	1296127	NOT REQ'D.	1012022								
			.5930	.5990	.067 or .098	.1875	5003088	5432893	.02/.27	1052950	1187764	NOT REQ'D.	1012022								
			.624	.6300	.098 or .1285	.2500	1005789	5432911	.02/.27	1052962	1055197	NOT REQ'D.	1012022								
									.27/.46	1294726	1296206	NOT REQ'D.	1012022	8000433					7000		

SPACEMATIC *ULTRALITE*[®] **MASTER ASSEMBLY - KNURLED KNOB**
NUTPLATE DRILLMOTOR II **DOUBLE WING NUTPLATE DRILLMOTOR II-B 8001314 (6 OF 6)** **8**

		DRILL MOTOR MODEL NO.	PILOT HOLE SIZE RANGE		ITEM 1 CUTTER (2 REQ'D.)		ITEM 2 FOOT ASSY. (TYPE OPTION) COOLANT TYPE		ITEM 3 MAT THK. (COLLET GRIP RANGE)	ITEM 3 COLLET CLAMP (LENGTH OPTION)	ITEM 4 MANDREL CLAMP (LENGTH OPTION)	ITEM 5 BUSHING COLLET	ITEM 6 SPRING COLLET	ITEM 7 BASIC HOUSING ASSY. (RPM OPTION)	RPM	ITEM 8 GEARS AND GEAR CAP GROUP	ITEM 9 (2 REQ'D.) SPINDLE GROUP	ITEM 10 FINGER CLAMP COLLET	ITEM 11 SPACER BLOCK
"A" DIM	"B" DIM		MIN.	MAX.	DRILL DIA.	MAX CSINK DIA. SPANK DIA.	STANDARD TYPE	COOLANT TYPE	COLLET GRIP RANGE	COLLET LENGTH	MANDREL CLAMP LENGTH	BUSHING COLLET	SPRING COLLET	BASIC HOUSING ASSY. (RPM OPTION)	RPM	GEARS AND GEAR CAP GROUP	(2 REQ'D.) SPINDLE GROUP	FINGER CLAMP COLLET	SPACER BLOCK
.500	1.000	DW1000 	.6550	.6610	.067 or .098	.1875	5003106	5432923	.02/.27 .27/.46	1295160 1295172	1296334 1296346	NOT REQ'D.	1012022	8000460	600	8001310	8001303	1007701	8000584
			.6865	.6925	.098 or .1285	.2500	5003118	5432935	.02/.27 .27/.46	1332491 1056475	1055240 1296383	NOT REQ'D.	1012022						
			.7020	.7080	.067 or .098	.1875	1187004	5432947	.02/.27 .27/.46	1187383 1295342	1187387 1296395	NOT REQ'D.	1012022						
.562	1.125	DW1125	.1160	.3800	.067 or .098	.1875	1049999	5432960	.02/.27 .27/.46					8000813	7000	8001310	8001305	1007701	8000816
			.1160	.3800	.098 or .1285	.2500	1050010	5432972	.02/.27 .27/.46										
			.1160	.3800	.1285 or .1590	.3125	5442230	5442412	.02/.27 .27/.46										
			.4365	.4425	.067 or .098	.1875	5434002	5434014	.02/.27 .27/.46	1052937 1294349	1055082 1296115	NOT REQ'D.	1012022						
			.4365	.4425	.098 or .1285	.2500	1200720	5432984	.02/.27 .27/.46	1052937 1294349	1055082 1296115	NOT REQ'D.	1012022						
			.4520	.4580	.067 or .098	.1875	7003107		.02/.27 .27/.46	1241333 1052949	1241345 1055100	NOT REQ'D.	1012022						
			.4520	.4580	.098 or .1285	.2500	1204889	5432996	.02/.27 .27/.46	1241333 1052949	1241345 1055100	NOT REQ'D.	1012022						
			.4680	.4740	.067 or .098	.1875	5447422		.02/.27 .27/.46	1187351 1294441	1187375 1296127	NOT REQ'D.	1012022						
			.4730	.4790	.098 or .1285	.2500	7002215		.02/.27 .27/.46	1294453 1294465	1187375 1296127	NOT REQ'D.	1012022						
			.4990	.5050	.067 or .098	.1875	1219406	5433009	.02/.27 .27/.46	1052950 1052962	1187764 1055197	NOT REQ'D.	1012022						
			.4990	.5050	.098 or .1285	.2500	5005280	5433010	.02/.27 .27/.46	1052950 1052962	1187764 1055197	NOT REQ'D.	1012022						
			.5460	.5320	.067 or .098	.1875	7003105		.02/.27 .27/.46	1294226 1294738	1296206 1296218	NOT REQ'D.	1012022						
			.5560	.5625	.067 or .098	.1875	7002250		.02/.27 .27/.46	1294775 1294787	1296231 1187338	NOT REQ'D.	1012022						
			.5615	.5675	.067 or .098	.1875	7002440		.02/.27 .27/.46	1189505 1294799	1296231 1187338	NOT REQ'D.	1012022						
			.5665	.5725	.067 or .098	.1875	7003095		.02/.27 .27/.46	1294805 1294817	1296231 1187338	NOT REQ'D.	1012022						
.7490	.7550	.067 or .098	.1875	5411579	5433022	.02/.27 .27/.46	1295536 1053000	1296449 1055252	NOT REQ'D.	1012022									
.562	1.125	DW1125 special pilot (.05 pilot hole offset)	.4680	.4740	.067 or .098	.1875	7002942		.02/.27 .27/.46	1187351 1294441	1187375 1296127	NOT REQ'D.	1012022	8000813	7000	8001310	8001305	7002943	8000816
									.02/.27 .27/.46										
.512	1.024	DW26mm (1.024 in)	.1160	.3800	.067 or .098	.1875	7002562		.02/.27 .27/.46					8000813	7000	8001310	8001305	1007701	8001536
			.1160	.3800	.1285 or .1590	.3125	5426315		.02/.27 .27/.46										

Mickey Mouse Nutplate Drillmotors—Charts 8001313 and 8000430

- △₆ Drillmotors indicated only, use “Special Straight Type” collet series no. 1282981.
- △₁ The Mickey Mouse (“MM”) model no. designates the “pilot hole to both drill holes spacing” (“A” Dim.) in decimal, inches, or millimeters.
- △₂ Cutter part numbers, for all Drillmotors, are determined from “Cutter Selection Chart” no. 5412360.
- △₃ Coolant type foot assy. only required when installing coolant systems.
- △₄ Collet, mandrel, and bushing part numbers, for the Drillmotors indicated only, are determined from the uncolored areas of “Collet, Mandrel, and Bushing Selection Chart” no. 1292171.
- △₅ Collet spring part numbers for Drillmotors indicated only
 - For pilot hole sizes .1160 to .1835, use spring no. 1012034
 - For pilot hole sizes .1655 to .3800, use spring no. 1012022

Single Wing Nutplate Drillmotors—Charts 8001312 and 8000429

- △₁ The Single Wing (“SW”) model no. designates the “pilot hole to nearest drill hole spacing” (“A” dim.) in decimal, inches, or millimeter.
- △₂ Cutter part numbers, for all Drillmotors, are determined from “Cutter Selection Chart” no. 5412560.
- △₃ Coolant type foot assy. only required when installing coolant systems.
- △₄ Collet, mandrel, and bushing part numbers, for the Drillmotors indicated only, are determined from the uncolored areas of “Collet, Mandrel, and Bushing Selection Chart” no. 1292171.
- △₅ Collet spring part numbers for Drillmotors indicated only
 - For pilot hole sizes .1160 to .1835, use spring no. 1012034
 - For pilot hole sizes .1655 to .3800, use spring no. 1012022

Double Wing Nutplate Drillmotors—Charts 8001314 and 8000431

- △₁ The Double Wing (“DW”) model no. designates the “drill hole to drill hole spacing” (“B” dim.) in decimal or millimeter.
- △₂ Cutter part numbers, for all Drillmotors, are determined from “Cutter Selection Chart” no. 5412560.
- △₃ Coolant type foot assy. only required when installing coolant systems.
- △₄ Collet, mandrel, and bushing part numbers, for the Drillmotors indicated only, are determined from the uncolored areas of “Collet, Mandrel, and Bushing Selection Chart” no. 1292171.
- △₅ Collet spring part numbers for Drillmotors indicated only
 - For pilot hole sizes .1160 to .1835, use spring no. 1012034
 - For pilot hole sizes .1655 to .3800, use spring no. 1012022
- △₆ Drillmotors indicated only, use “Special Straight Type” collet series no. 1282981.
- △₇ Drillmotors indicated only, use “Special Long Type” collet series no. 1282993.
- △₈ Collets to be modified according to drawing no. 11704 (Spacematic).