



August 1979
Supersedes RPD 3506A1
pages 1-4 dated March, 1979
Mailed to: E, C/2727/DB

Types MCA and MCB
Frames 602 to 620
230V
Totally Enclosed

DC Mill Motors

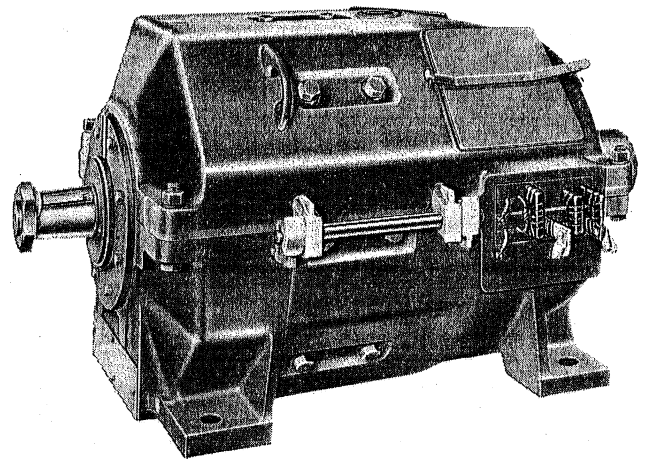
This publication lists those original and improved design type MC mill motors to which style numbers have been applied.

Data refers to motors with (MCB) and without (MCA) back axle brackets. Motor windings are listed as series, shunt or compound. The shunt wound machines vary for given ratings on stabilized shunt, adjustable speed and shunt no series.

Requests for data on other motors of this type should be referred to the Large Motor Division, Buffalo.

Ordering Information

- List the part and its respective style number.
- Show the complete nameplate reading.
- Indicate method of shipment desired.
- Send all orders or correspondence to nearest Westinghouse sales office.



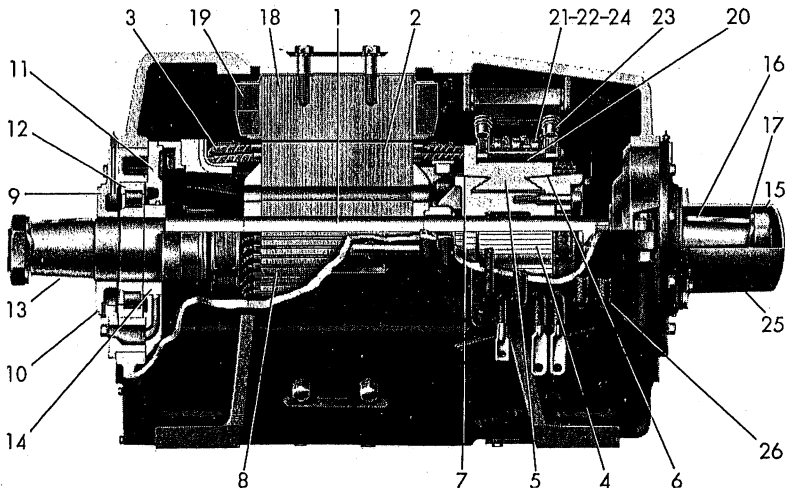
Frame Size	Rating at 75° C				Style Number of Motor				Style Number of Part			
	1 Hour		½ Hour						Field Coils		Brushes	
	Hp	Rpm	Hp	Rpm					Main Four Used	Commutating Four Used	Style Number	No. Used
Type MCA Series Wound												
602	7.5	800	10	650	1450 400	1655 600	296B750G02	333P560G01	333P550G01	345P704G01	4	
603	10	725	13.5	610	1450 402	1655 602	296B750G03	333P561G01	333P551G01	345P705G01	4	
604	15	650	19	560	1450 404	1655 604	296B750G04	333P562G01	333P552G01	345P711G01	4	
606	25	575	33	500	1450 406	1655 606	296B750G06	333P563G01	333P553G01	345P720G01	4	
608	35	525	45	460	1450 408	1655 608	296B750G08	333P564G01	333P554G01	345P725G01	4	
610	50	500	65	440	1450 410	1655 610	296B750G10	333P565G01	333P555G01	345P733G01	4	
612	75	475	100	420	1450 412	1655 612	296B750G12	333P566G01	333P556G01	345P728G01	8	
614	100	460	135	410	1450 414	1655 614	296B750G14	333P567G01	333P557G01	345P728G01	12	
616	150	450	200	400	1450 416	1655 616	296B750G16	333P568G01	333P558G01	345P717G01	24	
618	200	410	265	350	1450 418	1655 618	296B750G18	333P569G01	333P559G01	345P717G01	32	
620	275	370	...	...	....	....	296B750G20	337P598G01	337P595G01	345P717G01	48
Type MCA Compound Wound												
602	7.5	900	10	775	1450 401	1655 601	296B751G02	333P570G01	333P550G01	345P704G01	4	
603	10	800	13.5	700	1450 403	1655 603	296B751G03	333P571G01	333P551G01	345P705G01	4	
604	15	725	19	650	1450 405	1655 605	296B751G04	333P572G01	333P552G01	345P711G01	4	
606	25	650	33	625	....	1655 607	296B751G06	333P573G01	333P553G01	345P720G01	4
606	25	650	33	625	1450 407	....	.....	337P048G01	333P553G01	345P720G01	4
608	35	575	45	525	1450 409	1655 609	296B751G08	333P574G01	333P554G01	345P725G01	4	
610	50	550	65	500	1450 411	1655 611	296B751G10	333P575G01	333P555G01	345P733G01	4	
612	75	515	100	475	1450 413	1655 613	296B751G12	333P576G01	333P556G01	345P728G01	8	
614	100	485	135	440	1450 415	1655 615	296B751G14	333P577G01	333P557G01	345P728G01	12	
616	150	460	200	430	1450 417	1655 617	296B751G16	333P578G01	333P558G01	345P717G01	24	
618	200	420	265	375	1450 419	1655 619	296B751G18	333P579G01	333P559G01	345P717G01	32	
Type MCB Series Wound												
604	15	650	19	560	....	1655 624	296B770G04	333P562G01	333P552G01	345P711G01	4
606	25	575	33	500	....	1655 626	296B770G06	333P563G01	333P553G01	345P720G01	4
608	35	525	45	460	....	1655 628	296B770G08	333P564G01	333P554G01	345P725G01	4
610	50	500	65	440	....	1655 630	296B770G10	333P565G01	333P555G01	345P733G01	4
612	75	475	100	420	....	1655 632	296B770G12	333P566G01	333P556G01	345P728G01	8
614	100	460	135	410	....	1655 634	296B770G14	333P567G01	333P557G01	345P728G01	12
Type MCB Compound Wound Motors												
604	15	725	19	650	....	1655 625	296B771G04	333P572G01	333P552G01	345P711G01	4
606	25	650	33	625	....	1655 627	296B771G06	333P573G01	333P553G01	345P720G01	4
608	35	575	45	525	....	1655 629	296B771G08	333P574G01	333P554G01	345P725G01	4
610	50	550	65	500	....	1655 631	296B771G10	333P575G01	333P555G01	345P733G01	4
612	75	515	100	475	....	1655 633	296B771G12	333P576G01	333P556G01	345P728G01	8
614	100	485	135	440	....	1655 635	296B771G14	333P577G01	333P557G01	345P728G01	12

Frame Size	Rating at 75°				Style Number															
	1 Hour		½ Hour		Motor		Main Field Coil		Motor		Main Field Coil		Motor		Main Field Coil		Commutating Field Coil		Brushes	
	Hp	Rpm	Hp	Rpm	Motor	Main Field Coil	Motor	Main Field Coil	Motor	Main Field Coil	Motor	Main Field Coil	Commutating Field Coil	Brushes Style Number	No. Used					
Type MCA Stabilized Shunt Wound																				
602	7.5	900	10	875	1655	640	333P099G01	1748	640	333P580G01	296B753G02	385P611G01	333P550G01	345P704G01	4					
603	10	800	13	775	1655	643	333P052G01	1748	642	333P581G01	296B753G03	385P607G01	333P551G01	345P705G01	4					
604	15	725	19	700	1655	644	361P187G01	1748	644	333P582G01	296B753G04	385P610G01	333P552G01	345P711G01	4					
606	25	650	33	635	1655	646	333P583G01	1748	646	333P583G01	296B753G06	385P614G01	333P553G01	345P720G01	4					
608	35	575	45	560	1655	648	333P584G01	1748	648	333P584G01	296B753G08	385P617G01	333P554G01	345P725G01	4					
610	50	550	65	535	1655	650	337P050G01	1748	650	333P585G01	296B753G10	385P619G01	333P555G01	345P733G01	4					
612	75	515	100	500	1655	652	333P591G01	1748	652	333P586G01	296B753G12	385P623G01	333P556G01	345P728G01	8					
614	100	485	135	470	1655	654	333P587G01	1748	654	333P587G01	296B753G14	385P625G01	333P557G01	345P728G01	12					
616	150	460	200	450	1655	656	333P588G01	1748	656	333P588G01	296B753G16	385P627G01	333P558G01	345P717G01	24					
618	200	420	265	410	1655	658	333P589G01	1748	658	333P589G01	296B753G18	385P629G01	333P559G01	345P717G01	32					
620	275	390	360	360	1655	660	369P924G01	1748	660	337P080G01	296B754G20	374P111G01	337P595G01	345P717G01	48					

Type MCA Stabilized Shunt Wound - Adjustable Speed																				
602	7.5	900/1800	...	...	1655	641	337P099G01	1820	641	333P580G01	296B754G02	385P611G01	333P550G01	345P751G01	4			
603	10	800/1200	...	...	1655	643	337P052G01	1748	642	333P581G01	296B754G03	385P607G01	333P551G01	345P752G01	4			
604	15	725/1800	...	...	1655	645	369P187G01	1748	644	333P582G01	296B754G04	385P610G01	333P552G01	345P753G01	4			
606	25	650/1950	...	...	1655	647	369P141G01	1748	646	333P583G01	296B754G06	385P614G01	333P553G01	439A873G01	4			
608	35	575/1725	...	...	1748	291	369P931G01	1820	649	333P584G01	296B754G08	385P617G01	333P554G01	439A873G02	4			
610	50	550/1650	...	...	1655	651	337P050G01	1748	650	333P585G01	296B754G10	385P619G01	333P555G01	422A003G07	4			
612	75	515/1300	...	...	1655	653	333P591G01	1748	652	333P586G01	296B754G12	385P623G01	333P556G01	422A003G05	8			
614	100	485/1200	...	...	1655	655	337P053G01	1748	654	333P587G01	296B754G14	385P625G01	333P557G01	422A003G05	12			
616	150	460/1150	...	...	1655	657	333P598G01	1748	656	333P588G01	296B754G16	385P627G01	333P558G01	439A872G08	24			
618	200	420/1050	...	...	1655	659	337P088G01	1748	658	333P589G01	296B754G18	385P629G01	333P559G01	439A872G08	32			
620	275	390/970	...	...	1655	660	369P924G01	1748	660	337P080G01	296B754G20	374P111G01	337P595G01	439A872G08	48			

Type MCA Shunt No Series Wound																				
602	7.5	900	...	...	1655	660	369P924G01	1748	680	337P080G01	296B752G02	385P631G01	333P550G01	345P751G01	4			
603	10	800	...	...	1655	663	369P927G01	1748	682	337P081G01	296B752G03	385P608G01	333P551G01	345P752G01	4			
604	15	725	...	...	1655	665	369P928G01	1748	684	337P082G01	296B752G04	385P612G01	333P552G01	345P753G01	4			
606	25	650	...	...	1655	666	369P926G01	1748	686	337P083G01	296B752G06	385P615G01	333P553G01	439A873G01	4			
608	35	575	...	...	1655	668	369P929G01	1748	688	337P084G01	296B752G08	385P618G01	333P554G01	439A873G02	4			
610	50	550	...	...	1655	670	337P047G01	1748	690	337P085G01	296B752G10	385P620G01	333P555G01	422A003G07	4			
612	75	515	...	...	1655	672	368P251G01	1748	692	337P086G01	296B752G12	385P624G01	333P556G01	422A003G05	8			
614	100	485	...	...	1655	674	333P611G01	1748	694	337P087G01	296B752G14	385P626G01	333P557G01	422A003G05	12			
616	150	460	...	...	1655	676	337P051G01	1748	696	337P088G01	296B752G16	385P628G01	333P558G01	439A872G08	24			
618	200	420	...	...	1655	678	337P167G01	1748	698	337P089G01	296B752G18	385P629G01	333P559G01	439A872G08	32			
620	275	390	...	...	1655	680	369P924G01	1748	680	337P080G01	296B752G20	369P251G01	337P595G01	439A872G08	48			

Type MCA Compound Wound Motors - Screw Down																				
602	7.5	900	...	...	1655	663	369P927G01	1748	682	337P081G01	296B755G02	385P633G01	333P550G01	345P751G01	4			
603	10	800	...	...	1655	665	369P928G01	1748	684	337P082G01	296B755G03	385P609G01	333P551G01	345P752G01	4			
604	15	725	...	...	1655	667	369P925G01	1748	686	337P083G01	296B755G04	385P613G01	333P552G01	345P753G01	4			
606	25	650	...	...	1655	669	369P930G01	1748	688	337P084G01	296B755G06	385P616G01	333P553G01	439A873G01	4			
608	35	575	...	...	1655	671	333P596G01	1820	671	337P075G01	296B755G08	385P634G01	333P554G01	439A873G02	4			
610	50	550	...	...	1655	673	369P106G01	1820	673	337P076G01	296B755G10	385P621G01	333P555G01	422A003G07	4			
612	75	515	...	...	1655	675	369P106G01	1820	675	337P076G01	296B755G12	385P605G01	333P556G01	422A003G05	8			
614	100	485	...	...	1655	677	369P106G01	1820	677	337P076G01	296B755G14	385P632G01	333P557G01	422A003G05	12			
616	150	460	...	...	1655	679	369P106G01	1820	679	337P076G01	296B755G16	385P632G01	333P558G01	439A872G08	24			





Ref. No.	Description of Part	No. Used	Style Number of Part					
			Frame 602	Frame 603	Frame 604	Frame 606	Frame 608	Frame 610
1	Armature with shaft, brgs. and hsgs.	1	63A2566G04	63A2572G04	63A2539G04	63A2573G04	63A2574G04	2728D99G06
2	Core complete	1	55B4796G01	55B4794G01	55B4797G01	35A1205G01	35A1202G01	26B1667G01
3	Armature coil	()	2225C30G02(29)	2225C31G02(29)	2225C32G02(27)	2225C33G02(37)	2225C34G02(31)	8935D65G02(47)
4	Commutator (slotted)	1	63A2566G02	63A2572G02	63A2539G02	63A2573G02	63A2574G02	2728D99G04
5	Commutator segments (assembled) ..	1	15D3441G01	15D4946G01	15D5091G01	17D8004G02	17D7157G02	50D3026G02
6	Front mica V ring	1	11D0017H01	11D0017H01	11D0018H02	416A298H02	26D3471H01	15D3371H01
7	Rear mica V ring	1	11D0017H02	11D0017H02	11D0018H02	416A298H01	26D3471H03	15D3372H01
8	Wedges	()	21A7295H15(29)	25A2132H15(29)	21A7440H15(27)	50A3035H15(74)	23A9999H24(62)	50B3119H20(94)
9	Bearing housing with brg. and cap ...	2	16B7447G01	17B2652G01	17B2798G02	50B3085G01	17B2775G01	50C3076G01
10	Bearing housing	2	16B7449H01	17B2650H01	17B2797H01	50B3078H04	17B2787H02	50C3075H01
11	Bearing cap	2	16B7448H01	17B2647H01	17B2796H01	50B3088H01	17B2786H01	50C3074H01
12	Roller bearing	2	4109D38G14	4109D38G38	4109D38G23	4109D38G30	4109D38G38	4109D39G04
13	Shaft with punching key	1	07C2220G01	17B2636G01	07C2438G01	50C3028G01	07C5001G01	50C3126G01
⊗	Punching key	1	87D0693H50	87D0693H58	87D0693H61	87D0694H79	87D0695H04	87D0703H69
14	Shaft collar	2	15D3474H01	17D8061H01	15D5093H01	50D3037H01	15D5099H01	15D3487H01
15	Shaft nut	2	31D4161H05	31D4161H06	31D4161H06	31D4161H07	31D4161H09	31D4161H10
16	Pinion key	2	21D2428H01	21D2428H02	21D2428H02	21D2428H03	21D2428H04	21D2428H04
17	Locking plate	2	15D8037H01	15D8037H02	15D8037H02	15D8037H03	15D8037H04	15D8037H05
⊗	Fan ⊗	1	17B2572G01	17B2649G01	17B2795G01	50B3090G01	18B5282G01	50B3075G01
⊗	Main pole	4	17B2587G01	17B2624G01	07C2426G01	50C3081G01	17B2821G01	50B3071G01
18	Commutating pole	4	07C2168H01	07C2262H01	15D5030H01	50C3048G01	2164C94G01	50C3069G01
19	Field coil	4	⊗	⊗	⊗	⊗	⊗	⊗
⊗	Brush	⊗	⊗	⊗	⊗	⊗	⊗	⊗
20	Brushholder	2	17B2562G01	16B7262G01	18B5822G01	50B3076G01	17B2806G01	50B3089G01
21	Right hand pressure finger	2	18C0194G03	18C0194G03	18C0194G01	18C0194G01	18C0194G01	18C9351G01
22	Left hand pressure finger	2	18C0194G04	18C0194G04	18C0194G02	18C0194G02	18C0194G02	18C9351G02
23	Stud and insulation	4	314B519G02	314B519G02	314B519G03	314B519G03	314B519G03	314B519G04
24	Spring							
25	Shaft guard	1	34C0594H01	424C257G09	424C257G09	18B0692H01	18B0692H01	21B0190H01
⊗	Commutator cover	1	428C377G01	428C379G01	428C379G01	428C379G01	430C515G01	430C515G01
⊗	Latch for commutator cover	1	34C0573G01	268310G01	268310G01	268310G01	268310G01	268310G01
26	Insulating bushing		⊗	⊗	⊗	⊗	⊗	⊗

Ref. No.	Description of Part	No. Used	Style Number of Part				
			Frame 612	Frame 614	Frame 616	Frame 618	Frame 620
1	Armature with shaft, brgs. and hsgs.	1	63A2575G04	551D975G04	63A2576G04	63A2577G04	549D717G04
2	Core complete	1	35A1199G01	26B1670G01	35A1341G01	35A1342G01	59B9118G02
3	Armature coil	()	8935D66G02(37)	8935D67G02(37)	8935D68G02(46)	8935D69G02(50)	2746D69G02(50)
4	Commutator (slotted)	1	63A2575G02	551D975G02	63A2576G02	63A2577G02	549D717G02
5	Commutator segments (assembled) ..	1	15D3243G01	14D9732G02	50D3052G01	369P192G01	59C1507G01
6	Front mica V ring	1	21A7189H14	14D9779H01	50A3029H17	15D3307H01	57D8103H01
7	Rear mica V ring	1	21A7189H14	14D9779H02	50A3029H18	15D3307H02	57D8103H02
⊗	Cross connector (comm.)	()			50B3114G01(46)	50B3123G01(50)	58B9100G01(50)
8	Wedges	()	21A7189H24(74)	18B6159H18(74)	50A3029H16(92)	50A3047H29(100)	549D717H30(100)
9	Bearing housing with brg. and cap ...	2	16B7185G01	50C3070G01	50B3041G01	16B7141G01	58B7598G01
10	Bearing housing	2	16B7188H01	16B5612H01	50B3040H01	16B7129H01	58B7584H01
11	Bearing cap	2	16B7187H01	16B5685H01	50B3039H01	16B7131H01	58B7578H01
12	Roller bearing	2	4109D39G07	4109D39G12	4109D39G21	4109D39G24	333P169G01
13	Shaft with punching key	1	267C353G03	50C3071G01	50C3080G01	06C6364G01	59C1476G01
⊗	Punching key	1	087D703H77	29D0379H61	15D8039H24	15D8039H26	52D9048H88
14	Shaft collar	2	15D3239H01	14D9759H01	50D3016H01	15D3293H01	57D8072H01
15	Shaft nut	2	31D4161H04	31D4161H13	31D4161H14	196A062H09	31D4161H20
16	Pinion key	2	21D2428H05	21D2428H06	21D2428H07	21D2428H08	21D2428H12
17	Locking plate	2	15D8037H06	15D8037H07	15D8037H08	15D8037H09	52D9066H10
⊗	Fan ⊗	1	16B7186G01	23A9813G01	23A9955G01	16B7123G01	.....
⊗	Main pole	4	06C6589G01	16B4249G01	50B3024G01	50B3118G01	59B7454G01
18	Commutating pole	4	06C6599G01	16C9309G01	50B3023G01	50B3121G01	56B7455G01
19	Field coil	4	⊗	⊗	⊗	⊗	⊗
⊗	Brush	⊗	⊗	⊗	⊗	⊗	⊗
20	Brushholder	()	16B7184G01(4)	16B4280G01(4)	424C401G01(4)	424C402G01(4)	⊗
21	Right hand (or short) pressure finger ..	()	18C0194G01(4)	18C0194G01(8)	297B229H02(12)	297B229H02(16)	297B229H02(24)
22	Left hand (or long) pressure finger	()	18C0194G02(4)	18C0194G02(4)	297B229H01(12)	297B229H01(16)	297B229H01(24)
23	Stud and insulation	8	314B519G04	314B519G04	314B519G04	314B519G04	314B519G04
24	Spring	()			26D9392H01(24)	26D9392H01(32)	26D9392H01(48)
⊗	Latch mechanism	2	26D3462H01	26D3836H01	.....	.....	.....
25	Shaft guard	1	21B0190H01	09C0782H01	06B8488H01	06B8491H01	06B8491H01
⊗	Commutator cover (upper)	2	29B5539G01	29B5506G01	29B5533G01	29B5531G01	29B5531G01
⊗	Commutator cover (lower) front	()	309B610G01(2)	309B610G01(2)	309B617G01(4)	309B616G02(2)	195A876G01(4)
⊗	Commutator cover (lower) rear	()		218A020G01(2)	.....	309B616G01(2)	.....
⊗	Commutator cover ⊗		16B7322G02 rh	16B7318G02 rh	07C2053G01	16B7216G01 rh	.....
⊗	Latch for commutator cover ⊗	2	16B7322G01 lh	16B7318G01 lh	08B0374G01	16B7216G02 lh	.....
26	Insulating bushing		⊗	⊗	⊗	⊗	⊗

Parts indented are included in the part under which they are indented.

⊗ Not illustrated.

⊗ See table on page 1 or 2.

⊗ For replacement only on 1450400 style series motors.

⊗ Four of style number 1225 729 (right hand) and four of style number 1225 730 (left hand).

⊗ See table on page 4.

⊗ Number in parenthesis indicates number used.



Countershaft Sleeve Bearings for MCB Motors Only

Countershaft bearings are not included in the motor style number, and must be ordered by specifying the bore or the countershaft journal diameter and the motor on which they are to be used. Indicate whether oil or grease lubricated is required.

Motor Frame Size	Standard Countershaft Journal Diameter In Inches	Style Number of Part and Number Used				Oil Ring®
		Bore		Bore		
		Grease Lubricated		Oil Lubricated		
		Style Number®	In Inches	Style Number®	In Inches	Two Used
602	2.7570	942 392	2.765	942 393	2.763	316 198
603	3.1507	790 463	3.161	...	.....	.....
604	3.5445	790 462	3.554	790 453	3.555	1367 608
606	3.9383	790 461	3.949	790 452	3.946	1316 658
608	4.3320	1750 562	4.344	790 451	4.340	1436 790
610	4.7260	1750 563	4.738	790 450	4.734	1436 790
612	5.1197	790 458	5.134	790 449	5.129	1440 448
614	5.9072	790 457	5.921	790 448	5.916	1528 043
616	6.6950	968 445	6.711	...	.....	.....
618	7.4822	1396 883	7.508	...	.....	.....

® Used only with oil-lubricated countershaft bearings.
© Style number does not include grease or oil fittings.

Insulating Bushings®

Frame Number	Style Number of Bushing					
	Series Wound	Cable Hole Size (Inches)	Stabilized Shunt or Compound Wound	Cable Hole Size (Inches)	Shunt Wound	Cable Hole Size (Inches)
602	115 953(8)	7/16	115 953(12)	7/16	115 953(12)	7/16
602	448A518H02(8)	1/4	448A518H02(8)	1/4	448A518H02(4)	1/4
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
603	115 953(8)	7/16	115 953(12)	7/16	115 953(8)	7/16
603	448A518H02(8)	1/4	448A518H02(8)	1/4	448A518H02(4)	1/4
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
604, 606	1288 544(8)	1/2	1288 544(12)	1/2	1288 544(8)	1/2
604,	.....	...	1288 544(8)	1/2	1288 544(4)	1/2
606	.....	...	115 953(4)	7/16	115 953(4)	7/16
604	448A518H03(8)	11/32	448A518H03(8)	11/32	448A518H03(4)	11/32
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
606	448A518H04(8)	13/32	448A518H04(8)	13/32	448A518H04(4)	13/32
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
608	783 989(8)	23/32	166 983(4)	3/8	166 983(4)	3/8
	.....	...	783 989(8)	23/32	783 989(8)	23/32
608	448A518H05(8)	1/2	448A518H05(8)	1/2	448A518H05(4)	1/2
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
610	783 989(8)	23/32	166 983(4)	3/8	166 983(4)	3/8
	.....	...	783 989(8)	23/32	783 989(4)	23/32
610	29 085(8)	9/16	29 085(8)	9/16	29 085(4)	9/16
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
612	9 589(7)	27/32	9 589(7)	27/32	9 589(3)	27/32
	783 989(4)	23/32	166 983(4)	3/8	166 983(4)	3/8
	.....	...	783 989(4)	23/32	783 989(4)	23/32
612	783 989(7)	23/32	783 989(7)	23/32	783 989(3)	23/32
	448A518H05(4)	1/2	448A518H05(4)	1/2	448A518H05(4)	1/2
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16
614	711 495(7)	15/16	166 983(4)	3/8	166 983(4)	3/8
	783 989(4)	23/32	711 495(7)	15/16	711 495(3)	15/16
	.....	...	783 989(4)	23/32	783 989(4)	23/32
614	167 138(7)	49/64	167 138(7)	49/64	167 138(3)	49/64
	29 085(4)	9/16	29 085(4)	9/16	29 085(4)	9/16
	.....	...	448A518H01(4)	3/16	448A518H01(4)	3/16

() Number in parenthesis indicates number used.
® Customer should determine cable hole size of bushing and order by style number and quantity used.