TO INFORM YOU

PRODUCT SUPPORT BULLETIN # 383

http://documents.milwaukeetool.com/TIY383%20-%20Grease.pdf

TO: AUTHORIZED *Portable Electric Tool* SERVICE STATIONS
factory SERVICE CENTERS
SALES COMPANIES

DATE: JULY, 2002

TOOL(S) \ PRODUCT(S) AFFECTED

SUBJECT: GREASE STANDARDS CHART — GCS-5

Attached is an updated grease standard chart GSC-5, which lists the **Type** and **Weight** *(in ounces)* of grease for the gear case and mechanisms of all Milwaukee products. A brief description of Milwaukee grease proprieties, categorizing them by their type & typical application is shown on page 1.

GREASE — grease is a critical factor in keeping Milwaukee products operating at peak efficiency. Every tool requires the correct lubrication to protect its moving parts. Specific types of applications require grease with specific features. The specification of the proper grease depends upon composition and performance, to prevent wear, to reduce friction, to aid in distributing loads and to prevent corrosion.

Grease places a thin film of lubricant between two moving parts and separates moving surfaces that are under extreme pressure. This permits the parts to travel on the film and move smoothly past each other. The wrong grease will cause early wear out of critical parts and reduce the useful life of gears, bearings and mechanisms.

This bulletin superseded & replaces PRODUCT SUPPORT BULLETIN #359

This bulletin is for informational purposes. PLEASE PLACE IN SERVICE PARTS LIST MANUAL **'INDEX'** AREA.

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GREASE STANDARD CHART *GSC-5*

LUBRICATION - GREASE – Proper Selection and Use of Milwaukee Grease

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Grease places a thin film of lubricant between two moving parts and separates moving surfaces that are under extreme pressure. This permits the parts to travel on the film and move smoothly past each other. The wrong grease will cause early wear out of critical parts and reduce the useful life of gears, bearings and mechanisms.

The following is a brief description of Milwaukee Grease properties that categorize these lubricants by type and typical application.

TYPE	APPLICATION
A	all-purpose lubrication used in areas of non-critical sliding contact applications.
B	thick bearing type lubricant used in areas of non-critical sliding contact applications.
C	Obsolete - Replaced By Type G
D	Obsolete - Replaced By Type G
E	all-purpose lubricant with special additives that help support lubrication in medium loading and moderate to high torque conditions. Contains extreme pressure oils to minimize metal-to-metal contact, preventing scoring of parts.
F	Obsolete - Replaced By Type S2
G	special purpose lubricant, with special oil and solid additives that help support in areas of severe loading in high torque. G-Grease can be used in applications where E-Grease may not be enough to support the load & torque conditions.
H	Obsolete - Replaced By Type S2
J	polyurea base lubricant that is very stable in shear type applications. Note: polyurea base is not compatible with other grease bases and should not be mixed.
K	Obsolete - Replaced By Type S2
L	special Teflon additive grease that helps supports the lubricant in areas of critical sliding contact. Contains extreme pressure oils to minimize metal-to-metal contact, preventing scoring of parts. A good all-purpose gear lube.
M	Obsolete - Replaced By Type S2
N	Obsolete - Replaced By Type S2
O	Obsolete - Replaced By Type Y
P	general-purpose lubricant used in areas of non-critical contact applications.
Q	semi-fluid lubricant used in certain Hammer applications.
R	Obsolete - Replaced By Type Y
S	Obsolete - Replaced By Type S2
S2	aluminum complex base lubricant with eflon specific oils added for supporting areas of critical sliding contact and a copper corrosion inhibiter added. Helps minimize metal-to-metal contact and prevent scoring of parts.
T	special Teflon additive helps support the lubricant in areas of critical sliding contact, and Molydisulfide additive for greater wear properties.
U	anti-seize compound containing graphite and moly-disulfide. This lubricant is used in severe loading conditions.
W	Obsolete - Replaced By Type S2
Y	lithium 12 type base lubricant good in supporting areas of severe loading in high torque.
Z	aluminum complex base lubricant helps support the lubricant in areas of critical sliding contact, and Molydisulfide additive for greater wear properties.
Worm Drive OIL	90 weight heavy-duty gear oil with special anti-wear and tackiness additives

Grease Consistency Rating

NLGI*Consistency		Milwaukee Grease Type	Consistency Rating	Milwaukee Grease Type	Consistency Rating
Number	Appearance	A	2	Q	Semi-fluid
0	very soft	B	3-1/2	R	0
1	soft	E	2	S2	1-1/2
2	medium	G	1	T	2
3	medium hard	J	2	U	3
4	hard	K	1-1/2	Y	1
5	very hard	L	2	Z	1
6	block type	O	0		
		P	2		

*** National Lubricating Grease Institute**

Consistency of grease is roughly equivalent to viscosity in oil. The consistency of grease is important because grease must reach the parts to be lubricated at all times. Too heavy of grease will "channel" - stay in a fixed ridge or hollow and will not provide proper lubricating action; in turn, results in failure of the parts.

Milwaukee Grease is available in the following amounts and containers:

TYPE	MISC TUBES	1/2 LB	1 LB	7-1/2 LB	35 LB
A		49-08-0500	49-08-0800		49-08-3600
B		49-08-0600	49-08-0900	49-08-2000	
E			49-08-4122		49-08-3952
G			49-08-4140		49-08-4145
J			49-08-4220	49-08-2010	
L		49-08-4170	49-08-4175	49-08-4180	
P	1-1/2oz 49-08-4250				
Q	1-1/2oz 49-08-4255				
S2	7oz 49-08-5265		49-08-5267		
T			49-08-4290		
U	2oz 49-08-0150				
Y	6oz 49-08-5270				
Z			49-08-7650		

The following is the Grease TYPE and WHERE USED for Milwaukee *portable electric power tools*.

CATALOG	SERIAL NO	TYPE	WEIGHT	WHERE USED
0100	72	E	1/2	
0100-20	058	Y	1/4	
0101	376	E	1/2	
0101-20	064	Y	1/4	
0102	402	E	1/2	
0102-1	428-1001	E	1/2	
0102-1	428-189500	E	1-1/4	
0104-1	573-1001	E	1-1/4	
0104-1	573-17000	E	1-1/2	
0106-1	575	E	1-1/2	
0120	90	E	1-1/4	
0121	377	E	1-1/4	
0122	403	E	1-1/4	
0122-1	429	E	1-1/4	
0124-1	603-1001	E	1-1/4	
0124-1	603-5000	E	1-1/2	
0135	614	E	1-1/4	
0140	91	E	1-1/4	
0141	479	E	1-1/4	
0141-1	708	E	1-1/4	
0160	92	E	1-1/4	
0161	480	E	1-1/4	
0180	93	E	1-1/4	
0181	393	E	1-1/4	
0190	304	E	1-1/4	
0191	394	E	1-1/4	
0200	89	E	1-1/4	
0200-20	065	Y	5/8	
0201-20	067	Y	5/8	
0202-20	069	Y	5/8	
0210-1	588	A	1/3	
0212-1		A	1/3	
0214-1		A	1/3	
0216-1		S	1/10	
0218-1		S	1/10	
0220	88	E	1-1/4	
0221	378	E	1-1/4	
0222	404	E	1-1/4	
0222-1	430	E	1-1/4	
0224-1	574-1001	E	1-1/4	
0224-1	574-51000	E	1-1/2	
0225	316	E	1-1/4	
0225-1	796	E	1-1/2	
0227-1	831	E	1-1/8	
0228-1	689	E	1-1/2	
0229-1	820	E	1-1/2	
0230-1	732	E	1-1/2	
0232-1	832	E	1-1/2	
0234-1	532-1001	E	1-1/4	
0234-1, -75	532-100500, 987	E	1-1/2	
0235	615	E	1-1/4	
0235-1, -20	755, 978	E	1-1/2	
0238-1	723	E	1-1/2	
0239-1	756	E	1-1/2	
0244-1	664	E	1-1/2	
0270	80	E	1-1/4	
0290	81	E	1-1/4	
0300-20	070	Y	5/8	
0301-20	071	Y	5/8	
0302-20	084	Y	5/8	
0310	82	E	1-1/4	
0330	83	E	1-1/4	
0350	79	E	1-1/4	
0370	78	E	1-1/4	
0375-1	611	E	1/3	
0379-1	761	E	1/3	
0380-1	807	E	1/3	
0381-1		E	1/10	
0384-1	833	E	1/10	
0386-1	809	E	1/10	
0391-1	764	E	1/10	
0394-1	765	E	1/10	
0396-1	783	E	1/10	
0398-1	778	E	1/10	
0401-1	784	E	1/10	
0420	223	A	1-1/4	
0420-1	851	A	1/2	
0435-1	848	E	1/2	
0440	224	A	1-1/4	
0445-1	849	E	1/2	
0455-20	911	E	1/10	EA CARRIER
0456-20	912	E	1/10	EA CARRIER
0478-1	864	E	1/10	EA CARRIER
0480	226	A	1-1/4	
0500	222	A	1-1/4	
0501-02	900	E	1/10	EA CARRIER
0502-02	901	E	1/10	EA CARRIER
0511-21	943	E	1/10	EA CARRIER
0512-21	944	E	1/10	EA CARRIER
0513-21	945	E	1/10	EA CARRIER
0514-20	998	E	1/10	EA CARRIER
0516-20	999	E	1/10	EA CARRIER
0520	221	A	1-1/4	
0521-20	951	E	1/10	EA CARRIER
0522-20	952	E	1/10	EA CARRIER

CATALOG	SERIAL NO	TYPE	WEIGHT	WHERE USED
0523-20	979	E	1/10	EA CARRIER
0524-20	980	E	1/10	EA CARRIER
0562-1	432	E	1-1/4	
0564-1	789	S	1/10	
0565-1	467	E	1-1/4	
0566-1	496	E	1-1/4	
0567-1	542	E	1-1/4	
0600	9	A	1-1/2	
0620	11	A	1-1/2	
0800	10	A	3-1/4	
0801	485	A	3-1/4	
0805	484	A	3-1/4	
0850	12	A	3-1/4	
0870	13	A	3-1/4	
0871	486	A	3-1/4	
0875	487	A	3-1/4	
0890	50	A	3-1/4	
0950-1	419	A	3-1/4	
1000	17	A	3-1/4	
1000-1	126	A	3-1/4	
1001	490	A	3-1/4	
1001-1	491	A	3-1/4	
1006-1	596	A	3-1/4	
1007-1	628	A	3-1/4	
1100	14	A	3-1/4	
1100-1	133	A	3-1/4	
1101	492	A	3-1/4	
1101-1	493	A	3-1/4	
1105-1	458	A	3-1/4	
1106-1	482	A	3-1/4	
1107-1	629	A	3-1/4	
1108-20, -21	937	A	3-3/4	
1109-20	972	A	3-3/4	
1120	306	A	3-1/4	
1120-1	324	A	3-1/4	
1130-1	618	A	3-1/4	
1200	54	A	3-1/4	
1201	494	A	3-1/4	
1201-1	495	A	3-1/4	
1250-1	459	A	3-1/4	
1251-1	481	A	3-1/4	
1300	231	A	3-1/4	
1320	232	A	3-1/4	
1340	233	A	3-1/4	
1360	234	A	3-1/4	
1380	235	A	3-1/4	
1400	236	A	3-1/4	
1420	237	A	3-1/4	
1530	339	A	5-1/2	
1600	108	A	5-1/2	
1600-1	109	A	5-1/2	
1610-1	700	A	5-1/2	
1620	341	A	5-1/2	
1620-1	343	A	5-1/2	
1630-1	718	A	5-1/2	
1650	117	A	5-1/2	
1650-1	142	A	5-1/2	
1660-1	719	A	5-1/2	
1662-3	720	A	5-1/2	
1663-20	931	A	5-1/2	
1665-1	586	A	5-1/2	
1670-1	472	E	4	
1675-1	413	E	3-1/2	
1678-20	930	E	3-1/2	
1679-1	915	E	3-1/2	
1680-20	407	S2	13	
1700	62	E	5	
1700-1	131	E	5	
1704-1	565	E	5	
1750	63	E	7-3/4	
1750-1	130	E	7-3/4	
1754-1	566	E	7-3/4	
1850	66	E	7-3/4	
1850-1	128	E	7-3/4	
1854	593	E	7-3/4	
1854-1	567	E	7-3/4	
1855-20	932	J	7-3/4	
1870	125	E	7-3/4	
2000	68	E	7-3/4	
2200	106	E	7-3/4	
2200-1	129	E	7-3/4	
2300	145	E	7-3/4	
2400	163	E	7-3/4	
2400-1	171	E	7-3/4	
2404-1	568	E	7-3/4	
2405-20	933	J	7-3/4	
2500	167	E	7-3/4	
2500-1	172	E	7-3/4	
2600	168	E	7-3/4	
2600-1	173	E	7-3/4	
2700	169	E	7-3/4	
2700-1	174	E	7-3/4	
2800-1	175	E	7-3/4	
2870		A	1/2	
2871		A	1/2	
2890		A	1/2	
3780	198	A	5-1/2	
3820	162	A	9-1/4	
3880	158	A	9-1/4	
3940	161	A	9-1/4	
4004	841	J	18	
4005	865	J	18	
4020	160	A	9-1/4	
4025	344	E	18	
4029	560	E	18	
4030	345	E	18	
4034	558	E	18	
4035	346	E	18	
4039	559	E	18	
4079	738	J	18	
4090	739	J	18	
4092-20	946	J	20	
4094	740	J	18	
4095	741	J	18	
4096	798	E	21	
4097-20	947	J	20	
4099	742	J	18	
4240	751	J	5	GEARCASE
		U	1/6	FEEDCOLLAR
		G	1/6	O-RINGS
4245	782	J	4	GEARCASE
		U	1/6	FEEDCOLLAR
		G	1/6	O-RINGS
4250-1	298	A	3-1/4	
4252-1	501	A	3-1/4	
4253-1	587	A	3-1/4	
4260-1	299	A	9-1/2	
4262-1	502	J	9-1/2	
4265-1	597	A	5	
4270-1	300	A	9-1/2	
4270-20	373	Y	3-3/4	
4280-1	301	A	9-1/2	
4282-1	503	A	9-1/2	
4290-1	347	E	12	
4292-1	504	J	17	
4295-1	348	E	12	
4297-1	505	J	17	
5191	441			
5192	669	G	1/2	
5194	803	G	1/2	
5195	525	G	1/2	
5196	675	G	1/2	
5200	74	G	3-1/4	
5210	526	G	3/4	
5211	676	G	3/4	

CATALOG	SERIAL NO	TYPE	WEIGHT	WHERE USED
5220	75	G	3-1/4	
5223	584	G	3/4	
5243	663	G	1-1/2	
5260	599	G	3-1/4	
5263	690	G	1-1/4	
5265	448			
5300	342	A	4	GEARCASE
		E	1/3	CAM BALLS
5303-20	893	P	1-1/2	GEARCASE
		Q	3/4	SPINDLE
5308-21	926	S	5	
5309-21	927	S	5	
5310	518	A	4	GEARCASE
		E	1/3	CAM BALLS
5311	844	S	5	
5313-02	885	S	5	
5314-20	874	S2	7	
5315-21		S2	7	
5316	845	S	5	
5318-20	886	S2	7	
5319-20	863	S2	7	
5320-02	894	P	¾	GEARS
		Q	3/8	SPINDLE
5321-21		S2	7	
5324-02	895	P	1-1/2	
5325	551	A	4	GEARCASE
		E	1/3	CAM BALLS
5330	477-1001	S	2-1/2	
5330	477-3000	E	2-1/2	GEARCASE
		S	2-1/2	BARREL
5332	623	E	2-1/2	GEARCASE
		S	2-1/2	BARREL
5334	881	S	6	
5335	804	M	15	
5336-22	216	S	6	
5338	805	S	12-1/2	GC & BARREL
5341	776	S	5	
5343	687	S	5	
5345-21	188	S	6	
5346-21	187	S	6	
5347	688	S	5	
5350	389	A	2-1/2	GEARCASE
		U	1/6	MECHANISM
5351	488	A	2-1/2	GEARCASE
		U	1/6	MECHANISM
5352	779	S	5	
5359-20	409	P	1-1/2	GEARCASE
		Q	3/4	SPINDLE
5360-20	409	P	1-1/2	GEARCASE
		Q	3/4	SPINDLE
5360	38	A	1-1/2	GEARCASE
		B	1/6	MECHANISM
5361	489	A	1-1/2	GEARCASE
		B	1/2	MECHANISM
5361-20	973	S	3-2/3	
5362-1	707	S	1-1/4	
5364-20	860	S	3	
5368-1, -21	793, 259	S2	3-2/3	
5370-1	672	E	2	
5371-21	408	E	2	
5372	667	E	2	
5372-1	714	E	2	
5374	666	E	2	
5374-1	715	E	2	
5376-1	819	E	2	
5378-02	897	E	1/2	
5380-02	898	E	1/2	
5383-21	183	P	1-5/8	
		Q	5/8	
5388	609	E	3-1/4	GEARCASE
		U	1/6	RATCHETS

5390	422	A	1-1/2	GEARCASE
		U	1/6	RATCHETS
5391-1	828	S	1-2/3	
5392	456	A	1-1/2	GEARCASE
		U	1/6	RATCHETS
5392-1	665	S	1-1/2	GEARCASE
		U	1/6	RATCHETS
5398	556	E	3-1/4	GEARCASE
		U	1/6	RATCHETS
5400	107	E	1/2	
5410	447	A	1-1/2	
5450	100	E	5-3/4	
5455	657	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5456	813	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5460	785	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5530	140	E	5-3/4	
5535	677	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5536	814	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5540	802	G	1-1/4	GEARCAVITY
		B	1-1/2	CASECAVITY
5590	47	E	5-3/4	
5595	660	G	3	GEARCAVITY
		B	2-1/2	CASECAVITY
5900	475	E	1/4	
5910	476	E	1/4	
5920	648-1001	E	1/4	
5920	648-4525	J	1	
5925	658-1001	E	1/4	
5925	658-5650	J	1	
5930	659-1001	E	1/4	
5931	766	J	1	
5935	701	E	1/4	
5936	767	J	1	
6020	49	E	6	
6020-02	904	E	1/10	GEARCASE
6024	652	G	3	GEARCAVITY
		B	3	CASECAVITY
6025-02	905	E	1/10	GEARCASE
6030-20	902	S	1/10	GEARS
6032	531	E	5-3/4	
6035-20	903	S	1/10	GEARS
6036	569	E	5-3/4	
6052	649	G	3	GEARCAVITY
		B	3	CASECAVITY
6054	650	G	3	GEARCAVITY
		B	3	CASECAVITY
6056	651	G	3	GEARCAVITY
		B	3	CASECAVITY
6058	610	G	3	GEARCAVITY
		B	3	CASECAVITY
6060	48	E	6	
6064	653	G	3	
6065	752	G	2	
6066	753	G	1-1/2	
6067	816	G	2	
6068	817	G	2	
6070	818	G	2	
6072	703	G	2	
6075	733	G	1-1/2	
6076	861	G	1-1/2	
6078	834	G	1-1/2	
6080-20	988	Y	1/1/4	
6081-20	989	Y	1/1/4	
6082	535	E	6	
6082-20	990	Y	1-1/4	
6084	536	E	6	
6085	461	E	6	

CATALOG	SERIAL NO	TYPE	WEIGHT	WHERE USED
6086	537	E	6	
6086-20	991	Y	1-1/4	
6088	530	E	6	
6088-20	994	Y	1-1/4	
6089	606	E	6	
6089-20	992	Y	1-1/4	
6090	668	G	3	CAVITY
		B	3	CASECAVITY
6095	699	G	2	
6096	717	G	2	
6098	721	G	2	
6101	878	O	1/4	
6102	538	E	6	
6104	539	E	6	
6105	879	O	1/4	
6106	654	G	3	GEARCAVITY
		B	3	CASECAVITY
6108	655	G	3	GEARCAVITY
		B	3	CASECAVITY
6110	153	E	6	
6115	671	G	3	GEARCAVITY
		B	3	CASECAVITY
6120	154	E	6	
6126	788	O	1/4	
6140	762	O	1/4	
6141	763	O	1/4	
6145	627	O	1/4	
6146	684	O	1/4	
6148	856	O	3/4	
6149-02	919	O	3/4	
6150	595	E	6	
6151	868	O	3/4	
6152-02	920	O	3/4	
6153-20	906	O	3/4	
6154-20	907	O	3/4	
6155-20	949	O	3/4	
6156-20	950	O	3/4	
6165	582	E	2	
6170	594	E	2	
6175	821	E	1	
6176-20	968	E	1	
6184-01	929	O	1-7/8	
6200 / 6201	151	A	3/4	
6205 / 6206	478	A	3/4	
6210 / 6211	571	A	3/4	
6215	746	O	1/2	
6223	822	G	3	
6225	457	G	3	
6227	674	G	3	
6230	678	G	3	
6236	769	G	3	
6245	685	G	1-1/2	
6246	750	G	1-1/2	
6250	281	A	1/2	
6252	553	A	1/2	
6255	696	G	1-1/2	
6256	749	G	1-1/2	
6266-6	857	L	3/4	
6267-20	910	L	3/4	
6276	890	L	3/4	
6280	334	A	1/2	
6282	554	A	1/2	
6291	308	A	1	
6293	309	A	1	
6295	310	A	1	
6297	332	A	1	
6305		A	1/2	
6310-20	057	Y	1/8	
6320	176	A	1	
6320-20	383	Y	1/8	
6331	349	A	1	
6340	177	A	2-1/4	
6360	177	A	2-1/4	
6365	546-1001	Y	1/2	
6365	546-470501	Y	3/4	
6367	632-1001	Y	1/2	
6367	632-18900	Y	3/4	
6369	780	Y	3/4	
6373	626	WD OIL	1-1/2	
6375-20	961	Y	3/4	
6376-20	964	Y	3/4	
6377	620	WD OIL	1-1/2	
6378	621	WD OIL	1-1/2	
6380	178	A	2-1/4	
6387	679	WD OIL	1-1/2	
6388	680	WD OIL	1-1/2	
6390-20	983	Y	3/8	
6391-20	189	Y	3/8	
6394-20	984	Y	3/8	
6400	178	A	2-1/4	
6405	552-1001	Y	1/2	
6405	552-71600	Y	3/4	
6407	633-1001	Y	1/2	
6407	633-7100	Y	3/4	
6409	829	Y	3/4	
6410	771	Y	1/2	
6411	795	Y	1/2	
6460	607	E	1/2	
6465	772	Y	1/2	
6466	772	Y	1/2	
6486-20	401		1/3	
6490	799	Y	1/2	GEARCASE
		L	1/2	TABLE
6494	840	Y	1/2	GEARCASE
		L	1/2	TABLE
6496	882	Y	1/2	GEARCASE
		L	1/2	TABLE
6500	73	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6505	335	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6506	541	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6507	631	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6508	748	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6509, -21	808, 962	B	2-1/2	GEARCASE
		A	1/2	BRGPLATE
6510	284	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6511	460	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6512	483	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6514-20	372	L	1	
6515-20	971	L	3/4	DIA CAVITY
		L	2-3/4	GEARCASE
6516-02, -21	918	L	3/4	DIA CAVITY
		L	2-3/4	GEARCASE
6517, -20	858, 917	L	2-3/4	GEARCASE
		L	3/4	DIA CAVITY
6518, -75	859, 985	L	2-3/4	GEARCASE
		L	3/4	DIA CAVITY
6519-21	899	L	2-3/4	GEARCASE
		L	3/4	DIA CAVITY
6521-21, -50	981, 326	T	3-1/2	
6527, -21	774, 963	L	3-1/2	
6528	775	L	3-1/2	
6535	305	B	2-3/4	GEARCASE
		A	1/2	BRGPLATE
6535-6	748	B	2-1/2	GEARCASE
		A	1/2	BRGPLATE
6537, -22, -75	884, 916, 986	L	3-1/2	

CATALOG	SERIAL NO	TYPE	WEIGHT	WHERE USED
6539-1	729	A	1/4	
6540	41	A	1-1/4	
6540-1	127	A	1-1/4	
6541-1	338	A	1-1/4	
6542-1	433	A	1-1/4	
6543-1	469	A	1-1/4	
6545	317	A	1-1/4	
6546-1		A	1/4	
6550-20		E	1/10	GEARS
6560	136	A	1-1/4	
6560-1	137	A	1-1/4	
6561-1	333	A	1-1/4	
6571-1	426	A	1-1/4	
6580	97	A	1-1/4	
6580-1	124	A	1-1/4	
6580-20	098	L	1/8	CLUTCH
		Y	5/8	GEARS
6581-1	382	A	1-1/4	
6581-20	200	L	1/8	CLUTCH
		Y	5/8	GEARS
6582-1	434	A	1-1/4	
6583-1	470	A	1-1/4	
6584-1	497	A	1-1/4	
6600	138	A	1-1/4	
6600-1	139	A	1-1/4	
6611-1	424	A	1-1/4	
6620	34	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6620-1	135	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6627-1	612	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6640	27	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6640-1	123	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6657-1	613	A	3-1/4	GEARCASE
		A	1/2	MECHANISM
6700-20	959	E	7/8	
6701-20	938	E	7/8	
6702-20	105	Y	5/8	
6703-20	118	Y	3/8	
6704-20	958	E	1/5	
6705-20	939	E	1/5	
6706-20	119	E	1/5	
6707-20	120	E	1/5	
6708-20	132	E	1/5	
6726-1	602	E	1-1/4	
6740-1	337	A	1-1/4	
6740-20	143	Y	5/8	
6741-1	380	A	1-1/4	
6742-20	146	Y	3/8	
6743-20	159	Y	3/8	
6744-1	533	E	1-1/4	
6745-1	370	A	1-1/4	
6746-1	381	A	1-1/4	
6747-1	453	E	1-1/4	
6748-1	578	E	1-1/4	
6749-1	694	E	1-1/4	
6750-1	464-1001	E	1-1/4	
6750-1	464-110000	E	1/8	
6751-1	468	E	1-1/4	
6753-1	704	E	1/8	
6754-1	572-1001	E	1-1/4	
6754-1	572-25000	E	1-1/2	
6755-1	792	E	3/16	
6756-1	579	E	1-1/4	
6757-1	824	E	1/4	
6758-1	823	E	1/4	
6759-20	921	E	1-1/2	
6760-1	830	E	1-1/2	
6781-1	399	E	1-1/4	
6783-1	471-1001	E	1-1/4	
6783-1	471-51500	E	1-1/2	
		F	1/6	CLUTCH FACE
6790-1	374	A	1-1/4	
6790-20	179	Y	5/8	
6791-1	379	A	1-1/4	
6791-20	180	Y	5/8	
6792-1	580	E	1-1/4	
6792-20	181	Y	5/8	
6793-1	695	E	1-1/2	
6794-1	547	E	1-1/2	
6795-1	391	E	1-1/2	
6796-1	392	E	1-1/2	
6798-1	450	E	1-1/2	
6799-20	922	E	1-1/2	
6800	220	E	1/2	
6805	709	G	3/4	
6810	444	A	1/4	
6815	710	G	3/4	
6820	445	A	1-1/2	
6830	446	A	1-1/2	
6850	550	E	1-1/4	
6851	758	E	1-1/4	
6855	711	G	3/4	
6860	673	E	1-1/4	
6880	630	G	3/4	
6890	734	G	3/4	
8600	440	A	1-1/4	
9000	320	A	1	
9010	315	A	1	
9050	385	A	1	
9051	466	A	1	
9052	549	A	1	
9055-1	852	A	1-1/8	
9056-1	853	A	1-1/8	
9057-1	854	A	1-1/8	
9058-1	855	A	1-1/8	
9060	463	A	1-1/2	
9065	656-1001	A	1	
9065	656-37000	E	1	GEARCASE
		U	1/6	IMPACT BALL
9066	754	E	1	GEARCASE
		U	1/6	IMPACT BALL
9070	462	A	1-1/2	
9070-20	229	Z	1-1/8	
9071-20	230	Z	1-1/8	
9072-20	238	Z	1-1/8	
9075-20	239	Z	1-1/8	
9079-20	241	Z	5/8	
9080	540	A	1-1/2	
9081-20	397	L	1/4	
9082-20	398	L	1/4	
9083-20	400	L	1/4	
				07/2002