

LIBERTY'S GEARS MOUNTAIN MOTOR/EZ RATIO CHART

Gear Sets Must Remain in Vertical Columns

Main-Cluster	22e20	24e22	21e20	21e21	20e21	24e26	23e25	22e24	21e23	20e22	19e21	Main-Cluster
36e15	2.1818	2.2000	2.2858	2.4000	2.5200	2.5992	2.6088	2.6182	2.6285	2.6400	2.6527	36e15
38e16	2.1591	2.1771	2.2620	2.3750	2.4938	2.5721	2.5816	2.5909	2.6011	2.6125	2.6251	38e16
35e15	2.1212	2.1389	2.2223	2.3333	2.4500	2.5270	2.5363	2.5454	2.5555	2.5667	2.5790	35e15
37e16	2.1027	2.1203	2.2029	2.3130	2.4287	2.5050	2.5142	2.5233	2.5332	2.5443	2.5566	37e16
39e17	2.0855	2.1028	2.1848	2.2940	2.4087	2.4844	2.4936	2.5025	2.5124	2.5234	2.5356	39e17
34e15	2.0606	2.0778	2.1588	2.2667	2.3800	2.4548	2.4639	2.4727	2.4825	2.4933	2.5053	34e15
36e16	2.0455	2.0625	2.1429	2.2500	2.3625	2.4368	2.4458	2.4545	2.4642	2.4750	2.4869	36e16
38e17	2.0321	2.0490	2.1289	2.2353	2.3471	2.4208	2.4298	2.4385	2.4481	2.4588	2.4707	38e17
33e15	2.0000	2.0167	2.0953	2.2000	2.3100	2.3826	2.3914	2.4000	2.4094	2.4200	2.4317	33e15
39e18	1.9697	1.9861	2.0635	2.1667	2.2750	2.3465	2.3552	2.3636	2.3729	2.3833	2.3948	39e18
32e15	1.9394	1.9556	2.0318	2.1333	2.2400	2.3104	2.3189	2.3273	2.3364	2.3467	2.3580	32e15
38e18	1.9192	1.9352	2.0106	2.1111	2.2167	2.2863	2.2948	2.3030	2.3121	2.3222	2.3334	38e18
31e15	1.8788	1.8944	1.9683	2.0667	2.1700	2.2382	2.2465	2.2545	2.2634	2.2733	2.2843	31e15
37e18	1.8687	1.8843	1.9577	2.0556	2.1583	2.2262	2.2344	2.2424	2.2512	2.2611	2.2720	37e18
30e15	1.8182	1.8333	1.9048	2.0000	2.1000	2.1660	2.1740	2.1818	2.1904	2.2000	2.2106	30e15
37e19	1.7703	1.7851	1.8547	1.9474	2.0447	2.1090	2.1168	2.1244	2.1328	2.1421	2.1524	37e19
29e15	1.7576	1.7722	1.8413	1.9333	2.0300	2.0938	2.1015	2.1091	2.1174	2.1267	2.1369	29e15
36e19	1.7225	1.7368	1.8045	1.8947	1.9895	2.0520	2.0596	2.0670	2.0751	2.0842	2.0943	36e19
30e16	1.7045	1.7188	1.7858	1.8750	1.9688	2.0306	2.0381	2.0454	2.0535	2.0625	2.0724	30e16
28e15	1.6970	1.7111	1.7778	1.8667	1.9600	2.0216	2.0291	2.0363	2.0444	2.0533	2.0632	28e15
29e16	1.6477	1.6615	1.7262	1.8125	1.9031	1.9629	1.9702	1.9773	1.9851	1.9938	2.0034	29e16
27e15	1.6364	1.6500	1.7143	1.8000	1.8900	1.9494	1.9566	1.9636	1.9714	1.9800	1.9895	27e15
28e16	1.5909	1.6042	1.6667	1.7500	1.8375	1.8953	1.9023	1.9091	1.9166	1.9250	1.9343	28e16
26e15	1.5758	1.5889	1.6508	1.7333	1.8200	1.8772	1.8841	1.8909	1.8983	1.9067	1.9159	26e15
29e17	1.5508	1.5637	1.6247	1.7059	1.7912	1.8475	1.8543	1.8609	1.8683	1.8765	1.8855	29e17
27e16	1.5341	1.5469	1.6072	1.6875	1.7719	1.8276	1.8343	1.8409	1.8482	1.8563	1.8652	27e16
28e17	1.4973	1.5098	1.5687	1.6471	1.7294	1.7838	1.7904	1.7968	1.8039	1.8118	1.8205	28e17
26e16	1.4773	1.4896	1.5477	1.6250	1.7063	1.7599	1.7664	1.7727	1.7797	1.7875	1.7961	26e16
27e17	1.4439	1.4559	1.5126	1.5882	1.6676	1.7201	1.7264	1.7326	1.7394	1.7471	1.7555	27e17
25e16	1.4205	1.4323	1.4881	1.5625	1.6406	1.6922	1.6984	1.7045	1.7113	1.7188	1.7270	25e16
28e18	1.4141	1.4259	1.4815	1.5556	1.6333	1.6847	1.6909	1.6970	1.7036	1.7111	1.7194	28e18
26e17	1.3904	1.4020	1.4566	1.5294	1.6059	1.6564	1.6625	1.6684	1.6750	1.6824	1.6905	26e17
27e18	1.3636	1.3750	1.4286	1.5000	1.5750	1.6245	1.6305	1.6364	1.6428	1.6500	1.6580	27e18
25e17	1.3369	1.3480	1.4006	1.4706	1.5441	1.5926	1.5985	1.6043	1.6106	1.6176	1.6254	25e17
26e18	1.3131	1.3241	1.3757	1.4444	1.5167	1.5643	1.5701	1.5757	1.5820	1.5889	1.5965	26e18
27e19	1.2919	1.3026	1.3534	1.4211	1.4921	1.5390	1.5447	1.5502	1.5563	1.5632	1.5707	27e19
24e17	1.2834	1.2941	1.3446	1.4118	1.4824	1.5289	1.5346	1.5401	1.5462	1.5529	1.5604	24e17
25e18	1.2626	1.2731	1.3228	1.3889	1.4583	1.5042	1.5097	1.5151	1.5211	1.5278	1.5351	25e18
26e19	1.2440	1.2544	1.3033	1.3684	1.4368	1.4820	1.4875	1.4928	1.4987	1.5053	1.5125	26e19
23e17	1.2299	1.2402	1.2885	1.3529	1.4206	1.4652	1.4706	1.4759	1.4817	1.4882	1.4954	23e17
24e18	1.2121	1.2222	1.2699	1.3333	1.4000	1.4440	1.4493	1.4545	1.4603	1.4667	1.4737	24e18
25e19	1.1962	1.2061	1.2532	1.3158	1.3816	1.4250	1.4303	1.4354	1.4411	1.4474	1.4543	25e19
26e20	1.1818	1.1917	1.2381	1.3000	1.3650	1.4079	1.4131	1.4182	1.4238	1.4300	1.4369	26e20
23e18	1.1616	1.1713	1.2170	1.2778	1.3417	1.3838	1.3889	1.3939	1.3994	1.4056	1.4123	23e18
24e19	1.1483	1.1579	1.2030	1.2632	1.3263	1.3680	1.3731	1.3780	1.3834	1.3895	1.3962	24e19
25e20	1.1364	1.1458	1.1905	1.2500	1.3125	1.3538	1.3588	1.3636	1.3690	1.3750	1.3816	25e20
22e18	1.1111	1.1204	1.1640	1.2222	1.2833	1.3237	1.3286	1.3333	1.3386	1.3444	1.3509	22e18
23e19	1.1005	1.1096	1.1529	1.2105	1.2711	1.3110	1.3158	1.3206	1.3258	1.3316	1.3380	23e19
24e20	1.0909	1.1000	1.1429	1.2000	1.2600	1.2996	1.3044	1.3091	1.3142	1.3200	1.3264	24e20
25e21	1.0823	1.0913	1.1338	1.1905	1.2500	1.2893	1.2940	1.2987	1.3038	1.3095	1.3158	25e21
22e19	1.0526	1.0614	1.1028	1.1579	1.2158	1.2540	1.2586	1.2631	1.2681	1.2737	1.2798	22e19
24e21	1.0390	1.0476	1.0885	1.1429	1.2000	1.2377	1.2423	1.2467	1.2517	1.2571	1.2632	24e21
22e20	1.0000	1.0083	1.0476	1.1000	1.1550	1.1913	1.1957	1.2000	1.2047	1.2100	1.2158	22e20
24e22	0.9917	1.0000	1.0390	1.0909	1.1455	1.1815	1.1858	1.1901	1.1948	1.2000	1.2058	24e22
29e27**	0.9764	0.9846	1.0229	1.0741	1.1278	1.1632	1.1675	1.1717	1.1763	1.1815	1.1872	29e27**
22e21	0.9524	0.9603	0.9978	1.0476	1.1000	1.1346	1.1388	1.1428	1.1474	1.1524	1.1579	22e21
28e27**	0.9428	0.9506	0.9877	1.0370	1.0889	1.1231	1.1273	1.1313	1.1358	1.1407	1.1462	28e27**
22e22	0.9091	0.9167	0.9524	1.0000	1.0500	1.0830	1.0870	1.0909	1.0952	1.1000	1.1053	22e22
22e23	0.8696	0.8768	0.9110	0.9565	1.0043	1.0359	1.0397	1.0435	1.0476	1.0522	1.0572	22e23
20e21	0.8658	0.8730	0.9070	0.9524	1.0000	1.0314	1.0352	1.0390	1.0430	1.0476	1.0527	20e21
20e22	0.8264	0.8333	0.8658	0.9091	0.9545	0.9845	0.9882	0.9917	0.9956	1.0000	1.0048	20e22
20e23	0.7905	0.7971	0.8282	0.8696	0.9130	0.9417	0.9452	0.9486	0.9523	0.9565	0.9611	20e23

****NOT RECOMMENDED**

LIBERTY'S GEARS MOUNTAIN MOTOR/EZ RATIO CHART

Gear Sets Must Remain in Vertical Columns

Main-Cluster	23e26	22e25	21e24	20e23	19e22	23e27	22e26	21e25	20e24	19e23	18e22	20e25	Main-Cluster
36e15	2.7130	2.7274	2.7430	2.7600	2.7790	2.8174	2.8363	2.8572	2.8800	2.9052	2.9333	3.0000	36e15
38e16	2.6847	2.6990	2.7144	2.7313	2.7500	2.7880	2.8068	2.8274	2.8500	2.8749	2.9027	2.9688	38e16
35e15	2.6376	2.6516	2.6668	2.6833	2.7018	2.7391	2.7575	2.7778	2.8000	2.8245	2.8518	2.9167	35e15
37e16	2.6146	2.6285	2.6435	2.6600	2.6782	2.7152	2.7335	2.7536	2.7756	2.7999	2.8269	2.8913	37e16
39e17	2.5931	2.6069	2.6218	2.6381	2.6562	2.6929	2.7110	2.7310	2.7528	2.7769	2.8037	2.8675	39e17
34e15	2.5622	2.5758	2.5906	2.6067	2.6246	2.6608	2.6787	2.6985	2.7200	2.7438	2.7703	2.8333	34e15
36e16	2.5434	2.5569	2.5715	2.5875	2.6053	2.6413	2.6591	2.6786	2.7000	2.7236	2.7500	2.8125	36e16
38e17	2.5268	2.5402	2.5547	2.5706	2.5882	2.6240	2.6417	2.6611	2.6824	2.7058	2.7320	2.7941	38e17
33e15	2.4869	2.5001	2.5144	2.5300	2.5474	2.5826	2.6000	2.6191	2.6400	2.6631	2.6888	2.7500	33e15
39e18	2.4492	2.4622	2.4763	2.4917	2.5088	2.5435	2.5606	2.5794	2.6000	2.6228	2.6481	2.7083	39e18
32e15	2.4115	2.4243	2.4382	2.4533	2.4702	2.5043	2.5212	2.5397	2.5600	2.5824	2.6074	2.6667	32e15
38e18	2.3864	2.3991	2.4128	2.4278	2.4445	2.4782	2.4949	2.5133	2.5333	2.5555	2.5802	2.6389	38e18
31e15	2.3362	2.3486	2.3620	2.3767	2.3930	2.4261	2.4424	2.4604	2.4800	2.5017	2.5259	2.5833	31e15
37e18	2.3236	2.3359	2.3493	2.3639	2.3801	2.4130	2.4293	2.4471	2.4667	2.4883	2.5123	2.5694	37e18
30e15	2.2608	2.2728	2.2858	2.3000	2.3158	2.3478	2.3636	2.3810	2.4000	2.4210	2.4444	2.5000	30e15
37e19	2.2013	2.2130	2.2256	2.2395	2.2549	2.2860	2.3014	2.3183	2.3368	2.3573	2.3801	2.4342	37e19
29e15	2.1854	2.1970	2.2096	2.2233	2.2386	2.2695	2.2848	2.3016	2.3200	2.3403	2.3629	2.4167	29e15
36e19	2.1418	2.1532	2.1655	2.1789	2.1939	2.2242	2.2392	2.2557	2.2737	2.2936	2.3157	2.3684	36e19
30e16	2.1195	2.1308	2.1429	2.1563	2.1711	2.2011	2.2159	2.2322	2.2500	2.2697	2.2916	2.3438	30e16
28e15	2.1101	2.1213	2.1334	2.1467	2.1614	2.1913	2.2060	2.2223	2.2400	2.2596	2.2814	2.3333	28e15
29e16	2.0489	2.0597	2.0715	2.0844	2.0987	2.1277	2.1420	2.1578	2.1750	2.1940	2.2152	2.2656	29e16
27e15	2.0347	2.0455	2.0572	2.0700	2.0842	2.1130	2.1272	2.1429	2.1600	2.1789	2.2000	2.2500	27e15
28e16	1.9782	1.9887	2.0001	2.0125	2.0263	2.0543	2.0682	2.0834	2.1000	2.1184	2.1389	2.1875	28e16
26e15	1.9594	1.9698	1.9810	1.9933	2.0070	2.0348	2.0485	2.0635	2.0800	2.0982	2.1185	2.1667	26e15
29e17	1.9283	1.9386	1.9497	1.9618	1.9752	2.0025	2.0160	2.0309	2.0471	2.0650	2.0849	2.1324	29e17
27e16	1.9076	1.9177	1.9286	1.9406	1.9540	1.9810	1.9943	2.0090	2.0250	2.0427	2.0625	2.1094	27e16
28e17	1.8618	1.8717	1.8824	1.8941	1.9071	1.9335	1.9465	1.9608	1.9765	1.9938	2.0130	2.0588	28e17
26e16	1.8369	1.8467	1.8572	1.8688	1.8816	1.9076	1.9204	1.9346	1.9500	1.9671	1.9861	2.0313	26e16
27e17	1.7953	1.8049	1.8152	1.8265	1.8390	1.8644	1.8770	1.8908	1.9059	1.9226	1.9411	1.9853	27e17
25e16	1.7663	1.7756	1.7858	1.7969	1.8092	1.8342	1.8466	1.8602	1.8750	1.8914	1.9097	1.9531	25e16
28e18	1.7584	1.7677	1.7778	1.7889	1.8012	1.8261	1.8384	1.8519	1.8667	1.8830	1.9012	1.9444	28e18
26e17	1.7288	1.7380	1.7480	1.7588	1.7709	1.7954	1.8075	1.8208	1.8353	1.8514	1.8692	1.9118	26e17
27e18	1.6956	1.7046	1.7144	1.7250	1.7369	1.7609	1.7727	1.7858	1.8000	1.8158	1.8333	1.8750	27e18
25e17	1.6624	1.6712	1.6807	1.6912	1.7028	1.7263	1.7379	1.7507	1.7647	1.7801	1.7974	1.8382	25e17
26e18	1.6328	1.6415	1.6509	1.6611	1.6725	1.6956	1.7070	1.7196	1.7333	1.7485	1.7654	1.8056	26e18
27e19	1.6064	1.6149	1.6241	1.6342	1.6454	1.6682	1.6794	1.6918	1.7053	1.7202	1.7368	1.7763	27e19
24e17	1.5959	1.6043	1.6135	1.6235	1.6347	1.6573	1.6684	1.6807	1.6941	1.7089	1.7255	1.7647	24e17
25e18	1.5700	1.5783	1.5874	1.5972	1.6082	1.6304	1.6414	1.6535	1.6667	1.6813	1.6975	1.7361	25e18
26e19	1.5469	1.5551	1.5640	1.5737	1.5845	1.6064	1.6172	1.6291	1.6421	1.6565	1.6725	1.7105	26e19
23e17	1.5294	1.5375	1.5463	1.5559	1.5666	1.5882	1.5989	1.6107	1.6235	1.6377	1.6536	1.6912	23e17
24e18	1.5072	1.5152	1.5239	1.5333	1.5439	1.5652	1.5757	1.5873	1.6000	1.6140	1.6296	1.6667	24e18
25e19	1.4874	1.4953	1.5038	1.5132	1.5236	1.5446	1.5550	1.5664	1.5789	1.5928	1.6082	1.6447	25e19
26e20	1.4695	1.4773	1.4858	1.4950	1.5053	1.5261	1.5363	1.5477	1.5600	1.5737	1.5889	1.6250	26e20
23e18	1.4444	1.4521	1.4604	1.4694	1.4795	1.5000	1.5101	1.5212	1.5333	1.5468	1.5617	1.5972	23e18
24e19	1.4279	1.4355	1.4437	1.4526	1.4626	1.4828	1.4928	1.5038	1.5158	1.5291	1.5438	1.5789	24e19
25e20	1.4130	1.4205	1.4286	1.4375	1.4474	1.4674	1.4773	1.4881	1.5000	1.5131	1.5278	1.5625	25e20
22e18	1.3816	1.3889	1.3969	1.4056	1.4152	1.4348	1.4444	1.4551	1.4667	1.4795	1.4938	1.5278	22e18
23e19	1.3684	1.3756	1.3835	1.3921	1.4017	1.4210	1.4306	1.4411	1.4526	1.4653	1.4795	1.5132	23e19
24e20	1.3565	1.3637	1.3715	1.3800	1.3895	1.4087	1.4182	1.4286	1.4400	1.4526	1.4666	1.5000	24e20
25e21	1.3457	1.3529	1.3606	1.3690	1.3785	1.3975	1.4069	1.4173	1.4286	1.4411	1.4550	1.4881	25e21
22e19	1.3089	1.3158	1.3234	1.3316	1.3407	1.3593	1.3684	1.3785	1.3895	1.4016	1.4152	1.4474	22e19
24e21	1.2919	1.2987	1.3062	1.3143	1.3233	1.3416	1.3506	1.3606	1.3714	1.3834	1.3968	1.4286	24e21
22e20	1.2434	1.2500	1.2572	1.2650	1.2737	1.2913	1.3000	1.3096	1.3200	1.3316	1.3444	1.3750	22e20
24e22	1.2332	1.2397	1.2468	1.2545	1.2632	1.2806	1.2892	1.2987	1.3091	1.3205	1.3333	1.3636	24e22
29e27**	1.2141	1.2206	1.2276	1.2352	1.2437	1.2609	1.2693	1.2787	1.2889	1.3002	1.3127	1.3426	29e27**
22e21	1.1842	1.1905	1.1973	1.2048	1.2130	1.2298	1.2381	1.2472	1.2571	1.2681	1.2804	1.3095	22e21
28e27**	1.1723	1.1785	1.1852	1.1926	1.2008	1.2174	1.2256	1.2346	1.2444	1.2553	1.2675	1.2963	28e27**
22e22	1.1304	1.1364	1.1429	1.1500	1.1579	1.1739	1.1818	1.1905	1.2000	1.2105	1.2222	1.2500	22e22
22e23	1.0813	1.0870	1.0932	1.1000	1.1076	1.1229	1.1304	1.1387	1.1478	1.1579	1.1691	1.1957	22e23
20e21	1.0766	1.0823	1.0885	1.0952	1.1028	1.1180	1.1255	1.1338	1.1429	1.1529	1.1640	1.1905	20e21
20e22	1.0276	1.0331	1.0390	1.0455	1.0526	1.0672	1.0744	1.0823	1.0909	1.1005	1.1111	1.1364	20e22
20e23	0.9830	0.9882	0.9938	1.0000	1.0069	1.0208	1.0277	1.0352	1.0435	1.0526	1.0628	1.0870	20e23

**NOT RECOMMENDED