# MODEL ROCKETRY ENGINE REFERENCE CHART

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**Engine Reference Chart**
**Effective Jan. 1, 2019 - June 30, 2019**

**Single Stage:**

**First Launch Recommendation**

**Multi Stage:**

**First Stage Engine Recommendation**

**Second Stage Engine Recommendaton**

**Third Stage Engine Recommendaton**

| | | Mini Engines | | | | | | Standard Rocket Engines | | | | | | | | | | | | | | D12 Engines | | | | E12 Engines | | | | 29mm E & F Engines | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Item #* | *Description* | 1/4 A3-3T Item # 1502 | 1/2 A3-2T Item # 1503 | 1/2 A3-4T Item # 1504 | A3-4T Item # 1507 | A10-0T Item # 1510 | A10-3T Item # 1511 | 1/2A6-2 Item # 1593 | A8-3 Item # 1598 | A8-5 Item # 1598 | A8-0 Item # 1600 | B4-2 Item # 1601 | B4-4 Item # 1602 | B6-0 Item # 1608 | B6-2 Item # 1605 | B6-4 Item # 1606 | B6-6 Item # 1607 | C6-0 Item # 1616 | C6-3 Item # 1613 | C6-5 Item # 1614 | C6-7 Item # 1615 | D12-0 Item # 1565 | D12-3 Item # 1566 | D12-5 Item # 1567 | D12-7 Item # 1568 | E12-0 Item # 1691 | E12-4 Item # 1692 | E12-6 Item # 1693 | E12-8 Item # 1694 | E16-0 Item # 1695 | E16-4 Item # 1696 | E16-6 Item # 1697 | E16-8 Item # 1698 | F15-0 Item # 1650 | F15-4 Item # 1651 | F15-6 Item # 1652 | F15-8 Item #1653 | E30-4 Item #9770 |
| 651 | Der Red Max | | | | | | | | | | | • | • | | • | • | | | • | | | | | | | | | | | | | | | | | | | |
| 652 | Citation Patriot | | | | | | | | | | | • | | | | • | | | • | | | | | | | | | | | | | | | | | | | |
| 803 | Bandito | • | • | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 804 | Firehawk | • | • | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 806 | Firestreak SST | | • | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 810 | 220 Swift | • | • | • | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 865 | Mini Mean Machine | | | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1225 | Alpha® | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1256 | Alpha III® | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1260 | No. 2 Estes Sky Writer | | | | | | | | • | | | | • | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1261 | Baby Bertha | | | | | | | | • | | | | • | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1263 | Sky Twister | | | | | | | | | | | | | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| 1292 | Wizard | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1293 | Black Brant III (scale) | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1295 | Mean Machine | | | | | | | | | | | | | | | | | | | | | | • | • | | | • | • | | | | | | | | | | |
| 1329 | Multi-Roc | | | | | | | | | | | | | • | | • | • | • | | • | • | | | | | | | | | | | | | | | | | |
| 1330 | FreeFall | | | | | | | | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| 1345 | Mosquito | • | • | • | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1381 | Yankee | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1390 | Atomic Sky | | | | | | | | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1403 | Riptide | | | | | | | | | | | | • | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1413 | Wacky Wiggler | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1418 | Flip Flyer | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1424 | Silver Arrow | | | | | | | | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1427 | Alpha III® | | | | | | | | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1435 | Zombie | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 1436 | Javelin | | | | | | | | • | | | | • | | | • | | | | | | | | | | | | | | | | | | | | | | |
| 1437 | Flicker | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1438 | Sky Twister | | | | | | | | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| 1441 | Journey | | | | | | | | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1446 | Whirlybird | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| 1469 | Tandem-X (2 Rockets) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Amazon Rocket | | | | | | | | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| | Crossfire ISX Rocket | | | | | | | | | | | • | • | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| 1475 | Solar Scouts (2 Rockets) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Farside Rocket | | | | | | | | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| | Sky Dart Rocket | | • | • | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1478 | Flash | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 1491 | Taser | | | | | | | | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1499 | Rascal & HiJinks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rascal Rocket | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| | HiJinks Rocket | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 1921 | Mercury Redstone | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| 1946 | Boosted Bertha* | | | | | | | | • | | | | • | • | • | • | | • | | • | | | | | | | | | | | | | | | | | | |
| 1948 | Big Bertha® | | | | | | | | | | | • | • | | • | • | | | | • | | | | | | | | | | | | | | | | | | |
| 1949 | Viking | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1951 | Executioner | | | | | | | | | | | | | | | | | | | | | | • | • | | | • | • | | | | | | | | | |
| 1954 | Red Flare | | | | | | | | | | | | | | | | | | | | | | | • | | | • | • | | | | | | | | | |
| 1955 | Top Shot | | | | | | | | | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | |
| 1958 | Alpha® VI Estes 60th Anniversary | | | | | | | • | • | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 1969 | Saturn V (1/100 scale) | | | | | | | | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | • |
| 2008 | Generic E2X | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 2056 | U.S. Army Patriot M-104 | | | | | | | | | | | | • | | | • | • | | | • | | | | | | | | | | | | | | | | | | |
| 2092 | Mongoose (2 stage) | | | | | | | | • | • | | • | • | • | | • | • | • | | • | • | | | | | | | | | | | | | | | | | |
| 2123 | Eggscaliber | | | | | | | | | | | • | | | • | • | | | • | • | | | | | | | • | | | | | | | | | | |
| 2160 | Saturn V (1/200 scale)* | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | | |
| 2162 | Big Daddy | | | | | | | | • | | | | | | | | | | | | | | • | • | | | • | • | | | | | | | | | |
| 2169 | Dragonite | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 2178 | Hi-Flier® | | | | | | | • | • | • | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 2183 | Shuttle Xpress | | | | | | | | | | | • | • | | • | • | | | • | • | | | | | | | | | | | | | | | | | | |
| 2416 | Flip Flyer | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 2433 | Zinger | | | • | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2435 | 3 Bandits | | | • | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2437 | Savage (2 stage) | | | | | | | | | • | | • | | | • | • | • | | | • | • | • | | | | | | | | | | | | | | | | |
| 2440 | Magician | | | | | | | | | | | | | | | | | | | | | | | • | | | | • | | | | | | | | | |
| 2442 | Mini Fat Boy | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2446 | Mini Honest John | | • | | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2448 | Mini Comanche 3 (3 stage) | • | • | | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2452 | Athena (2) | | | | | | | | • | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | |
| 2466 | Show Stopper | | | | | | | | | | | | | | | | | | | | | | | • | • | | | | | | | | | | | | |
| 2468 | Sky Cruiser | | | | | | | | | | | | • | | | • | | | | | | | | | | | | | | | | | | | | | |
| 2481 | Power Patrol | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 2482 | Solaris | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 2483 | Phantom Blue | | | | | | | | • | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 2491 | Drifter | | | | | | | | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |

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| 2492 | Spirit | | | | | | | | | | | • | | | • | • yellow | | | • | • | | | | | | | | | | | | | | | | | | |
| 2495 | Chiller | | | | | | | | | | | • | | | • | • yellow | | | • | • | | | | | | | | | | | | | | | | | | |
| 2497 | Nova | | | | | | | | | | | | | | • | • yellow | | | • | • | | | | | | | | | | | | | | | | | | |
| 2603 | Sundancer | | | | | | | | • yellow | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 3031 | Star Trooper | • | | • yellow | • | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3226 | Hi-Flier XL | | | | | | | | | | | | | | | | | | | | | | | • yellow | • | | | • | • | | | | | | | | | |
| 3227 | Loadstar II (2 stage) | | | | | | | | | • yellow | | | • yellow | • yellow | | • | • | • | | • | • | | | | | | | | | | | | | | | | | |
| 3228 | V2 (semi-scale) | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | • | | | | | | | | | | |
| 3232 | Centuri | | | | | | | | | | | | • yellow | | | • | | | | | | | | | | | | | | | | | | | | | | |
| 3233 | Blenders | | | | | • yellow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7000 | Bull Pup 12D | | | | | | | | • yellow | | | | • | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 7217 | Hyper Bat (2 stage) | | | | | | | | | • orange | • blue | | | • blue | | • yellow | • orange | • blue | | • orange | • orange | | | | | | | | | | | | | | | | | |
| 7220 | Crossfire ISX | | | | | | | | • yellow | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 7222 | Black Star Voyager | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | |
| 7225 | Extreme 12 (2 stage) | | | | | | | | | | | | | | | | | | | | | • blue | • | • yellow | • | • blue | | • orange | • orange | | | | | | | | | |
| 7227 | Little Joe II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • yellow |
| 7228 | Cobra | | | | | | | | | | | • yellow | | | • | | | | • | • | | | | | | | | | | | | | | | | | | |
| 7230 | Conquest | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | |
| 7279 | Double Ringer | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | | |
| 7232 | Scorpion | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7233 | Lynx | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7234 | Crossbow SST | | | | | | | | | • yellow | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 7235 | Odyssey | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | | | | | | | | | | | |
| 7236 | Estes SLV | | | | | | | | | | | | | | | | | | | | | | • yellow | • | | | • | | | | | | | | | | | |
| 7237 | Goblin | | | | | | | | | | | | | | | | | | | | | | | • yellow | • | | | | | | | | | | | | | |
| 7238 | Sequoia | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7239 | Sky Warrior | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | |
| 7240 | Honest John (scale) | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | |
| 7241 | Qunistar | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | | | |
| 7242 | Super Neon | | | | | | | | • yellow | | | | • | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 7243 | Black Brant III (scale) | | | | | | | | yellow | | | | | | | | | | | | | | | • yellow | • | | | | | | | | | | | | | |
| 7244 | Indicator | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7245 | Comanche-3 | | | | | | | | | | | | • orange | • orange | | • purple | • purple | • orange | | • purple | • purple | • blue | | | | | | | | | | | | | | | | |
| 7246 | Estes Shuttle | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | |
| 7247 | Nike Smoke | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | |
| 7248 | Super Nova | | | | | | | | | • yellow | | | | • blue | | | • orange | • blue | | | • orange | | | | | | | | | | | | | | | | | |
| 7249 | Expedition | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | • | | | | | | | | | | | |
| 7250 | Twin Factor (2 stage) | • orange | • orange | • orange | • yellow | • blue | • orange | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7253 | Explorer Aquarius | | | | | | | | | | | | | | | | | | | | | | • yellow | • | | | • | • | | | | | | | | | | |
| 7254 | Nike Apache | | | | | | | | • yellow | | | | • | | | • | | | | • | • | | | | | | | | | | | | | | | | | |
| 7255 | Little Joe I | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | | |
| 7256 | Puma | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7257 | Airborne Surveillance Missile | | | | • yellow | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7258 | Space Twister | | | | | | | | • yellow | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | |
| 7259 | Nike-X | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | |
| 7260 | Protostar | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | |
| 7261 | Air Walker | | | | | | | | | | | | • | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | |
| 7262 | Starship Nova | | | | | | | | | | | • yellow | | | • | | | | • | • | | | | | | | | | | | | | | | | | | |
| 7263 | Hex-3 | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | | | |
| 7264 | Astron Explorer | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | |
| 7265 | Space Crater (egg launcher) | | | | | | | | | | | | | | | • yellow | | | • | • | | | | | | | | | | | | | | | | | | |
| 7266 | Red Nova | | | | | | | | | | | | | | | | | | | | | | | • yellow | • | | | | | | | | | | | | | |
| 7271 | SA-2061 Sasha* | | | | | | | | | | | | | | | | | | | | | • blue | | • orange | • orange | • blue | | • orange | • orange | | | | | | | | | |
| 7272 | Mini "A" Heli | | | | | | • yellow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7275 | Sterling Silver (2 stage) | | | | | | | | | • yellow | • blue | | | • blue | | | • orange | • blue | | | • orange | | | | | | | | | | | | | | | | | |
| 7276 | Checkmate (2 stage) | | | | • yellow | • blue | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7277 | Galaxy Glow | | | | | | | | • yellow | | | | • | | | • | • | | | • | • | | | | | | | | | | | | | | | | | |
| 7279 | Double Ringer | | | | | | | | | | | | | | • yellow | | | | • | | | | | | | | | | | | | | | | | | | |
| 9706 | Ascender | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | | | • yellow | • | |
| 9707 | Majestic (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | | | • yellow | • | |
| 9710 | Prowler Launch Set (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | • | | | • yellow | • | |
| 9716 | Star Orbiter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | | • | |
| 9719 | Super Big Bertha (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | • yellow | | | | | • | | |