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CAN MOTOR SPECIFICATIONS & TERMS

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The following is a round up of technical specifications for the most popular can motor and "limited spec" strap motor types. The specs are extracted from USRA rules and practice and serve as a guideline for most can and restricted motor classes raced worldwide.

As a rule the specs define "Box Stock" motors for standard classes. Many classes raced around the world can vary in overall specification in regard to magnet size / type, can length, endbell configuration, brush hardware and bearings.

In many standard classes ballraces are not allowed and one may only use the standard "Oilite" bearings as supplied by the manufacturer. Racers are advised to check "local rules" in regard to any legal modifications for a specific class.

Thanks also go to Robert Root of RJR who helped advise on the data.

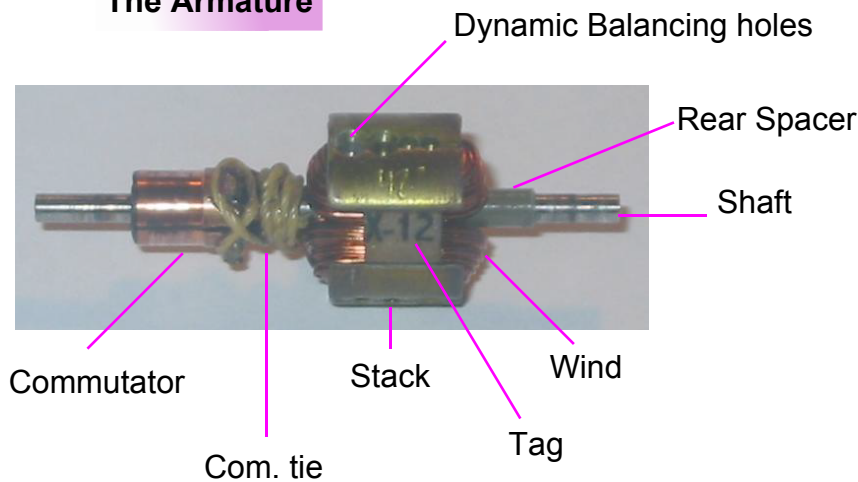
| Motor Type | No. of Winds | Wire Gauge | Min. Stack Length | Min. Stack Diameter | Magnet Length | Balanced Yes / No |
|---|--------------|------------|-------------------|---------------------|---------------|-------------------|
| D CAN MOTORS | | | | | | |
| 16D | 70 | 30AWG | 0.600" | 0.513" | 0.670" | no |
| S16D | 60 | 28AWG | 0.600" | 0.520 | 0.670" | yes |
| S16D Outlaw | 60 | 28AWG | 0.490" | 0.520 | 0.670" | yes |
| C CAN MOTORS | | | | | | |
| Hornet / S. Wasp | 60 | 30AWG | 0.350" | 0.513" | 0.500* | yes |
| Contender | 60 | 30AWG | 0.440" | 0.513" | 0.500" | Yes / no |
| Super 16C | 55 | 28AWG | 0.490" | 0.513" | 0.500" | yes |
| G12 | 50 | 29AWG | 0.350" | 0.513" | 0.500* | yes |
| Outlaw G12 | 50 | 29AWG | 0.350" | 0.500" | 0.500* | yes |
| Cobalt G12 (strap) | 50 | 29AWG | 0.350" | | | yes |
| G15 | 50 | 29AWG | 0.440" | 0.513" | 0.500* | yes |
| G20 | 37 | 27AWG | 0.440" | 0.513" | 0.500* | yes |
| G27 (strap motor) | 38 | 27AWG | 0.440" | | | yes |
| *C-can Magnet dimensions may be + or - 1-%. Min. Thickness 0.150, Min. Height 0.550 | | | | | | |
| 30AWG = 0.0099 - 0.0101" dia. 29AWG = 0.0112" - 0.0114" dia. | | | | | | |
| 28AWG = 0.0125" - 0.0127" dia. 27AWG = 0.0141-0.0143" dia. | | | | | | |

MOTOR CAN DIMENSIONS (inches)

| | length | width | height |
|-------|--------|--------|--------|
| C Can | 0.925" | 0.835" | 0.560" |
| D Can | 0.950" | 0.875" | 0.600 |

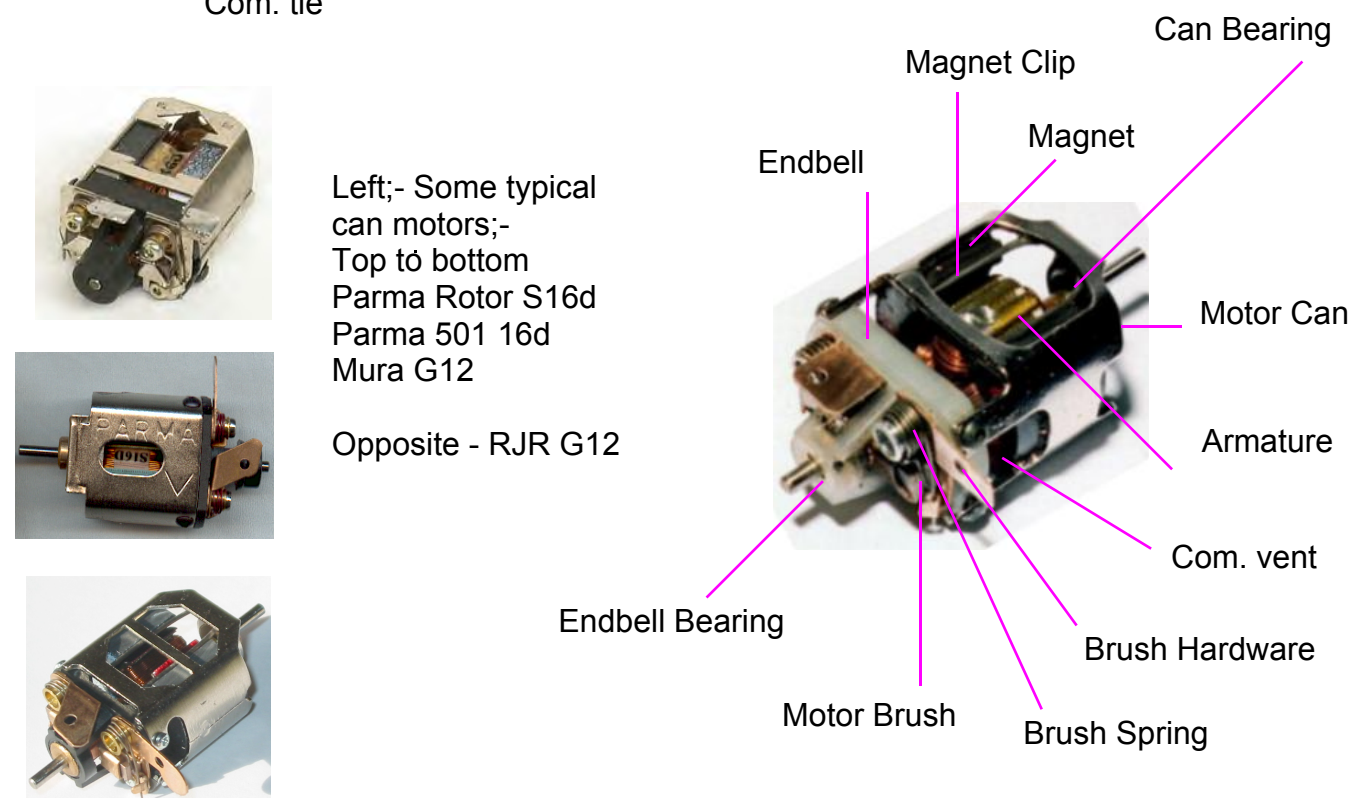
GENERAL MOTOR TERMS

The Armature



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The Motor



Left;- Some typical can motors;-
Top to bottom
Parma Rotor S16d
Parma 501 16d
Mura G12

Opposite - RJR G12