

# R.C. PRESS

## RC Construction Trucks

An introduction for beginners



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*This book primarily covers hobby-grade electric power R/C construction truck. Information presented is intended for beginners and intermediate users who want to maintain and operate their R/C construction trucks effectively for the purposes of enjoyment and/or elementary-level joy riding.*

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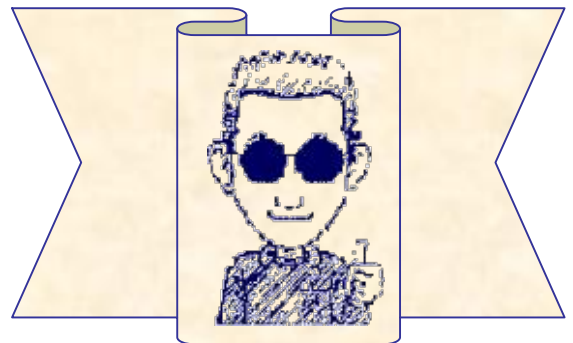
# Preface

R.C.PRESS is the premier information source for R/C technologies. It has the goal of putting all different kinds of R/C technologies on the global map by publishing e-books that bring to light the knowledge of R/C technology innovators.

Members of the R.C.PRESS editorial team are practicing engineers, technicians and racers who have been with R/C Modeling & Racing since the early days of Tamiya Frog and Kyusho Optima. Being geographically close to the origin of R/C products enables close contact with the major manufacturers, thus facilitating in-depth and accurate coverage of the hottest "toys of the trade".

Because we are part of the industry, we know what information is really needed, and we make sure our e-books tell what people really need to know. We do not mind to criticize things that don't work, and we will not hesitate to give you hacks and workarounds to difficult problems. Reading this e-book should be like having a R/C professional by your side, passing on useful hints whenever you get stuck.

*We need to thank our sponsors for their high quality truck kits and parts. Many thanks!*



This book deals with architectural knowledge that can be applied to most electric RC construction trucks. Our focus will be on the drive system.

We do assume that you have some experience with RC cars and the like so you know what the various technical terms mean.

# Architecture of a RC construction truck

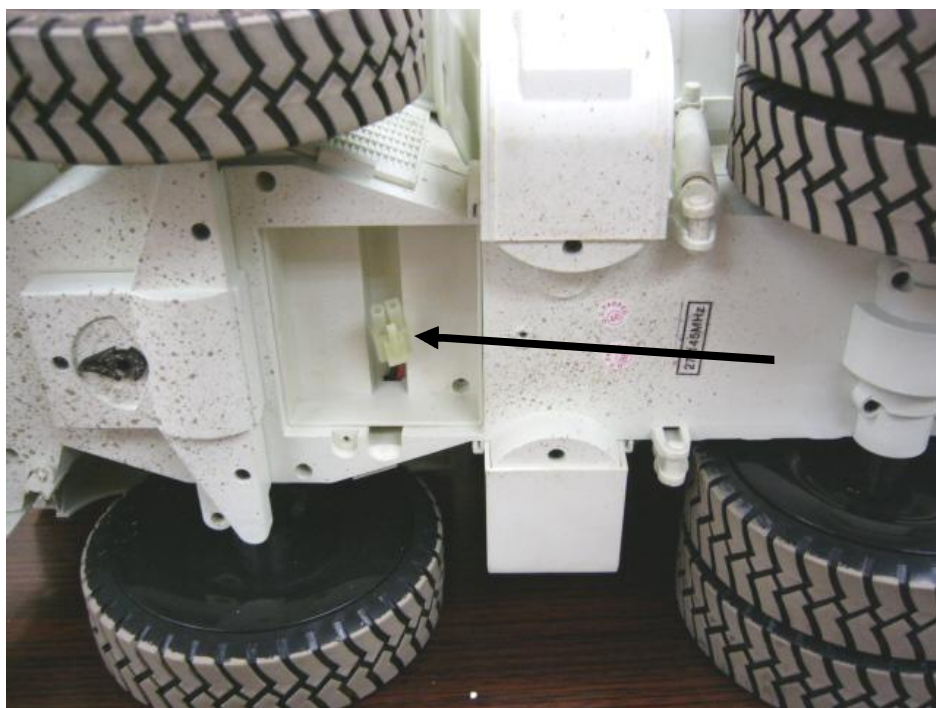
We use construction truck product from HobbyEngine for demonstration here.



Disassembly of the construction truck starts from the bottom. First you remove the battery compartment cover and take out the battery, then you remove the screws and open up the construction truck.

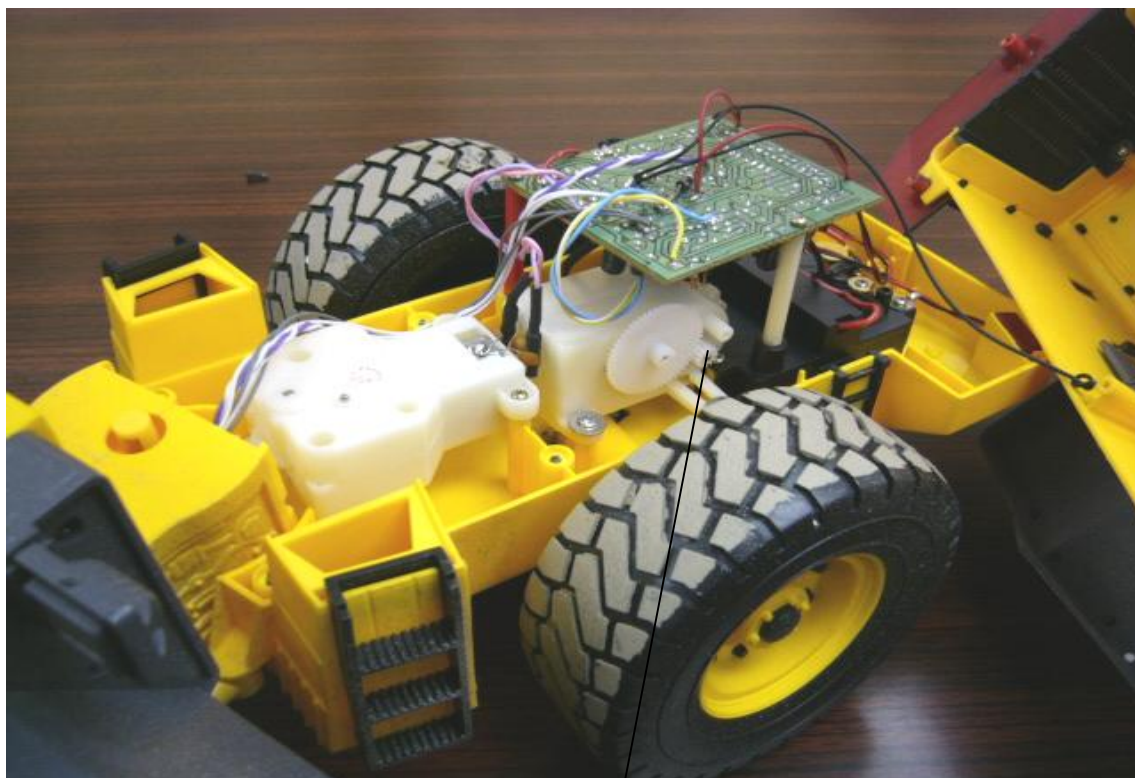


The truck runs on a small AA pack with large Tamiya connector. Due to space constraint, increasing voltage through adding extra cells would be impossible.



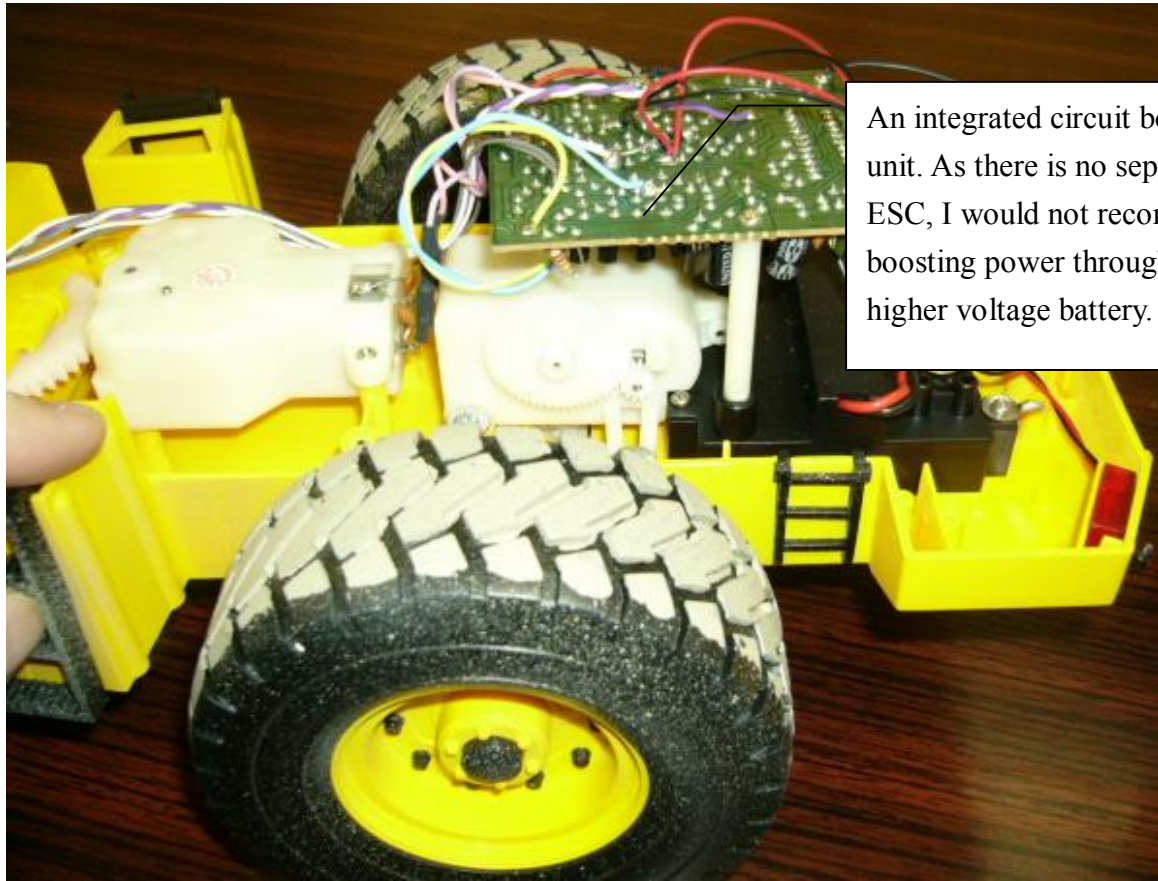
All construction trucks share similar architecture for disassembly. Everything starts from the bottom where the battery compartment resides. You always start by removing the battery pack.





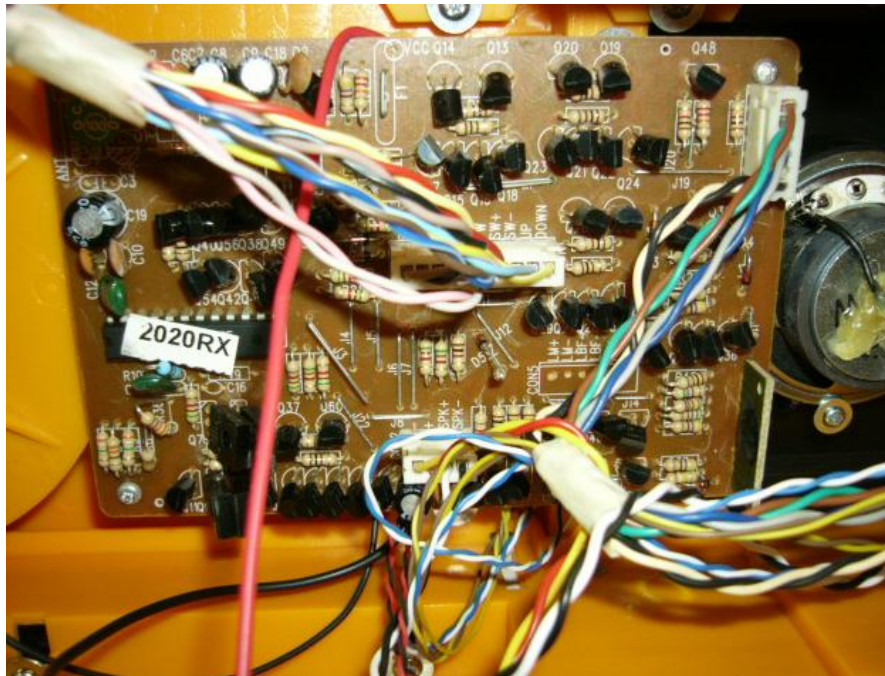
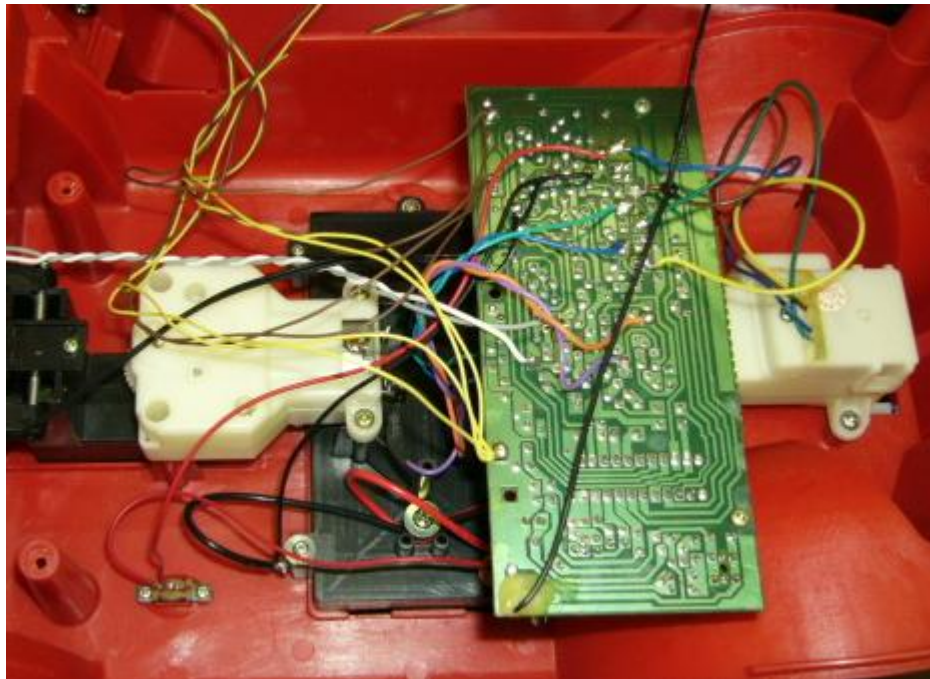
You need to be very gentle when opening up the construction truck as there are MANY wires connecting both the upper part and the lower part of the chassis.

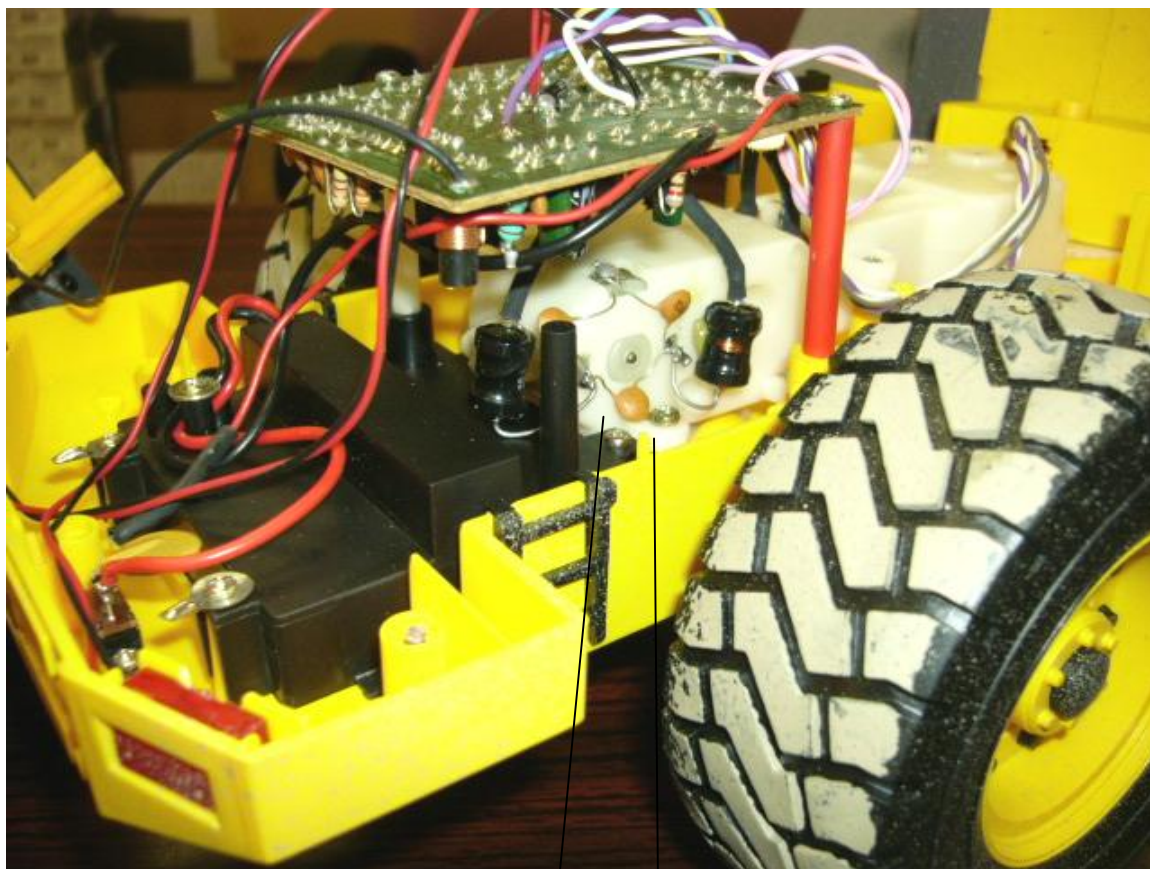




An integrated circuit board unit. As there is no separate ESC, I would not recommend boosting power through using higher voltage battery.

The RC system is slightly different from those you find in RC cars. There are no separate Rx / ESC units. Instead everything is integrated into a circuit board piece.

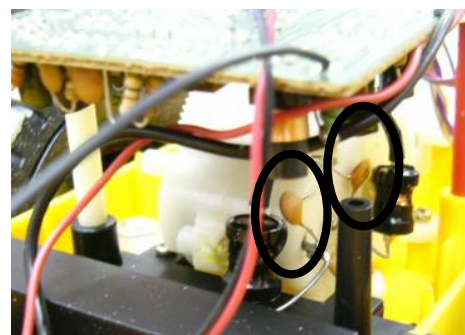


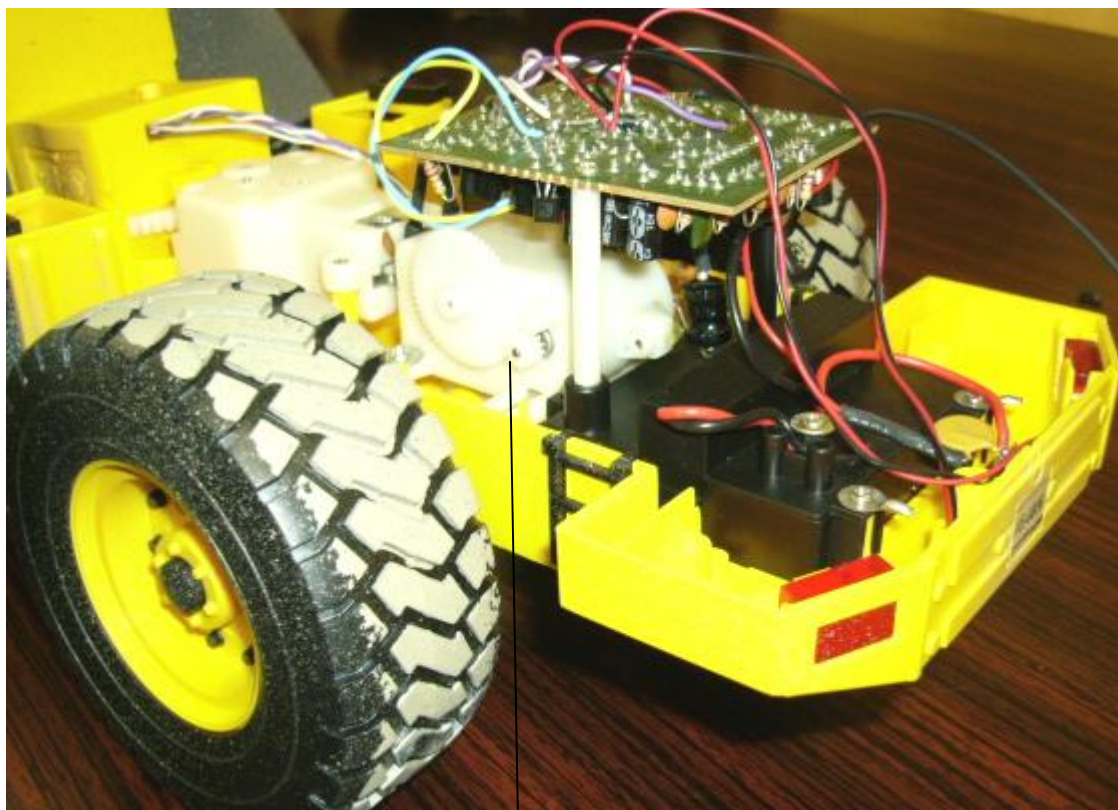


The motor compartment makes it difficult to upgrade the motor to a bigger one.

*The motor is not a high power motor so as long as you do not over run it then heat should not pose any threat.*

The capacitors are for reducing electronic interference so make sure they are properly attached to the motor can.



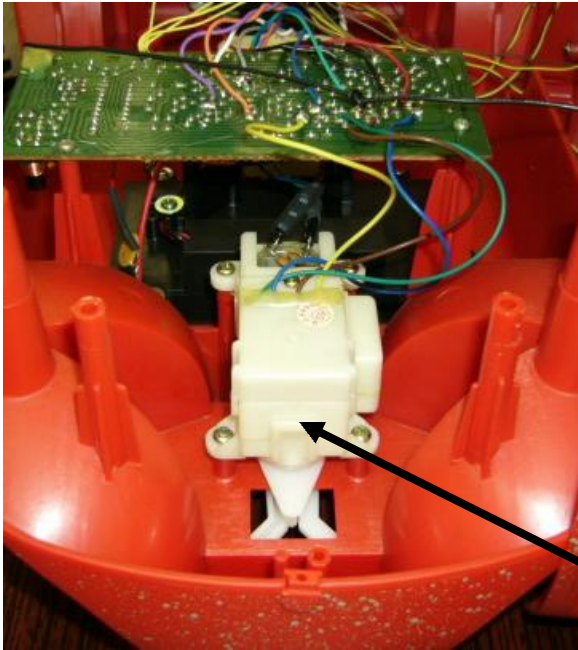


You should lube the pinion gear and the spur gear with grease.



The servo unit is for controlling and rotating the front end such that steering is possible. This part can get damaged (gear or motor breakage) if rotation is forcefully stopped.

You may want to lube the gears with grease for smoother rotation.



The servo unit found on all RC trucks are highly similar if not totally identical.



The steering linkage rod.

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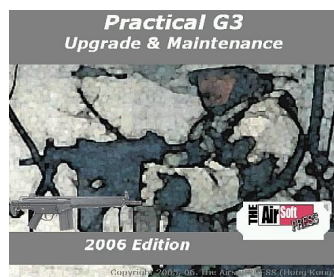
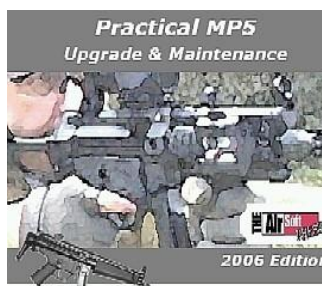
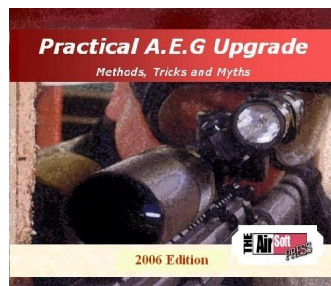
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