

# Complete Kit Freightliner COE



All components displayed. (Complete kit #55 with radio kit VG400, battery charger VC600, 3 Speed transmission #165, aluminum headache rack #1002, 2nd differential #117, inner shaft #120 and sound system #189.)

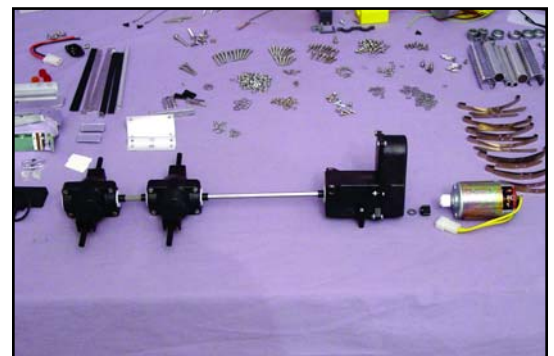
## Step 1

Standard Complete Kit driveline.



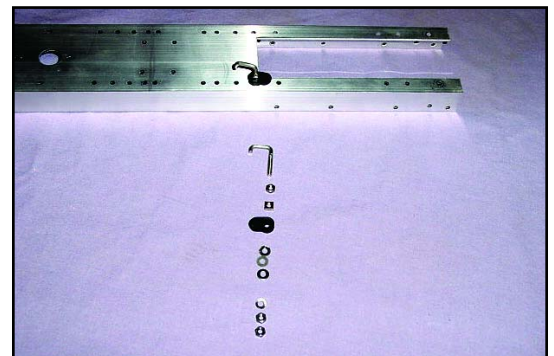
## Step 2

Upgrade driveline with 3 speed transmissions and 2nd differential.



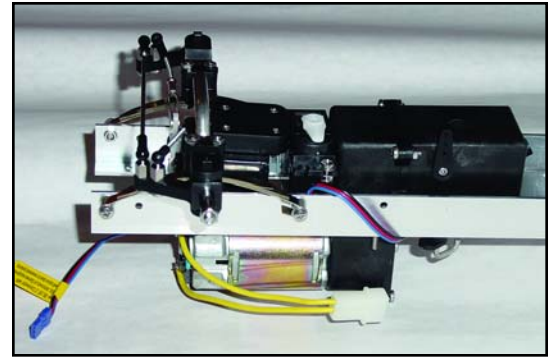
## Step 3

Cab tilt latch, use 3 spacer washers, one more than factory recommended.



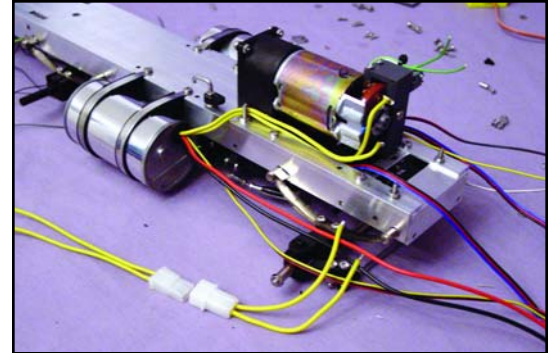
#### Step 4

Steering and shift servos installed



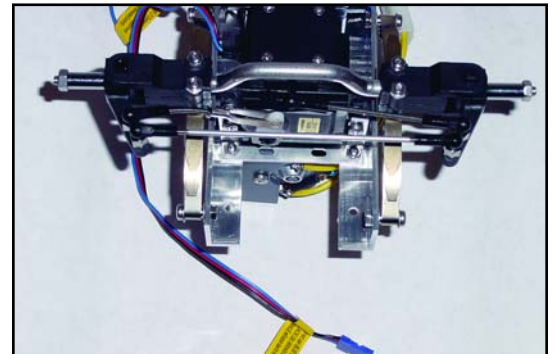
#### Step 5

Eliminate electrical plug from speed controller to motor. Be careful to maintain polarity. Cut one wire and solder to motor then the other one.



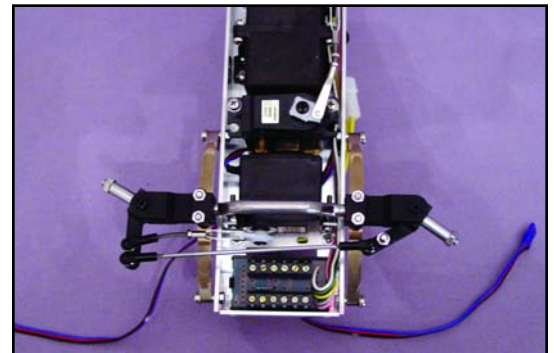
#### Step 6

Front view of steering servo and turn signal switch



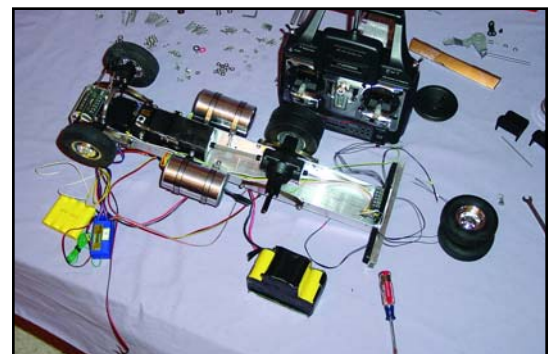
#### Step 7

Shift servo linkage MOST IMPORTANT adjusting shift linkage is critical that servo must not run in 1st or 3rd gear. Check this by putting a screwdriver on servo and your ear to handle. Hint, shortest connection on the servo arm, center hole on the transmission arm.



#### Step 8

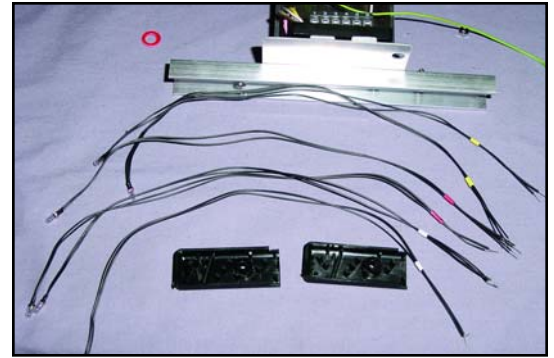
Temporary radio hook up for adjusting.





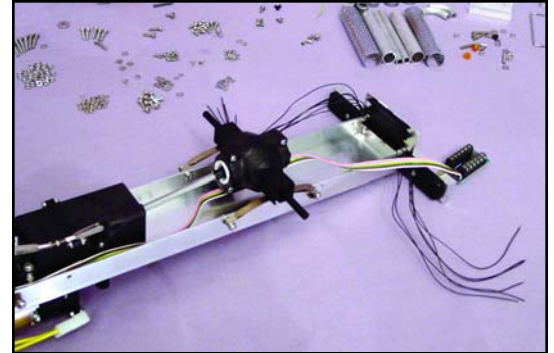
### Step 9

Rear bumper and taillights read to install.  
Note: Color code band on light bulb wires.  
Red – brake  
Yellow – turn  
White – tail



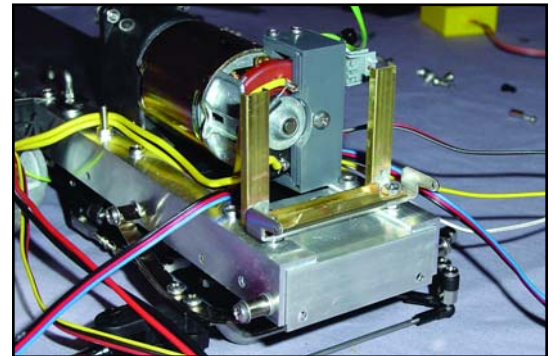
### Step 10

Install front differential then PC board, leave rear differential until last, this allows large fingers to get in and wire it.



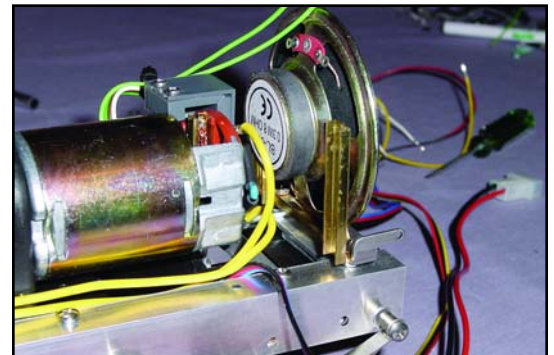
### Step 11

Speaker mount, scratch build or can be obtained in COE Enhancement Kit.



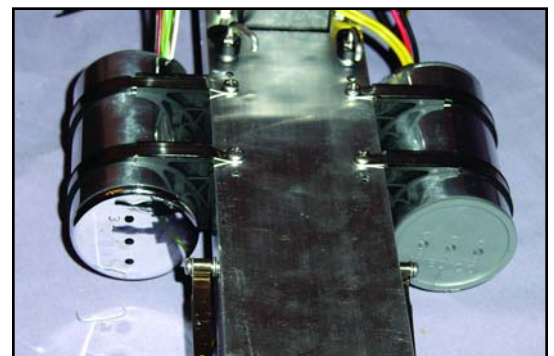
### Step 12

Speaker held in place with silicone.



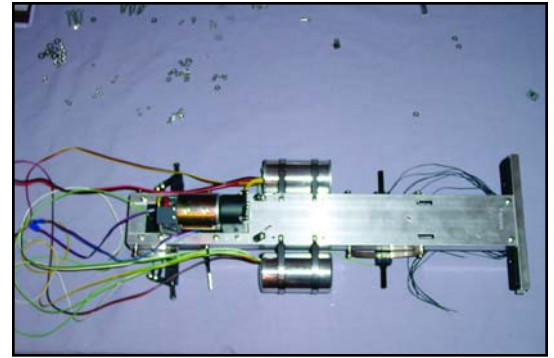
### Step 13

Fuel tanks installed, sound system passenger side, speed controller driver's side. Shown installed with tank mounts from COE Enhancement Kit.



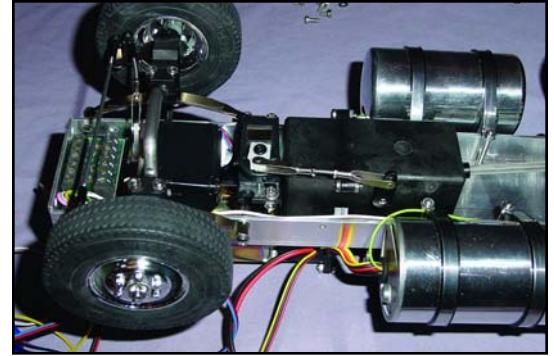
### Step 14

Top view of chassis.



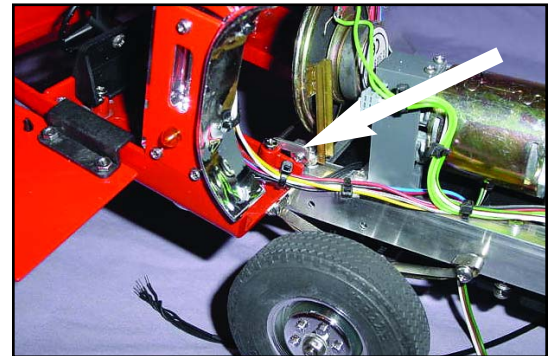
### Step 15

Bottom view of chassis.



### Step 16

Cab tilt stop (arrow) screw supplied with COE Enhancement Kit.



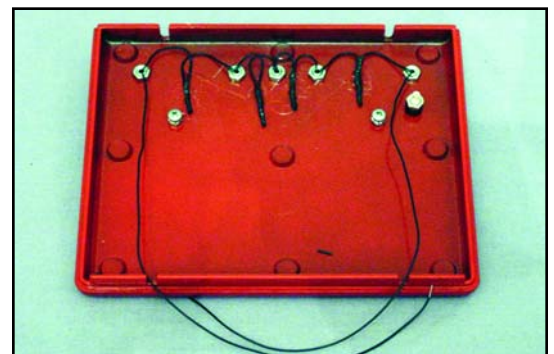
### Step 17

Cab parts. All blind holes need thread cutting bolts pre-installed with oil then removed and cleaned, before assemble.



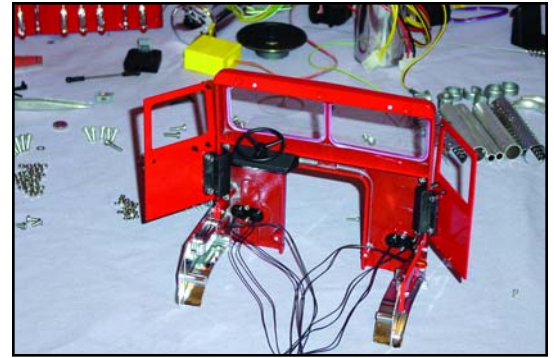
### Step 18

Cab roof with lights, horns and antenna mount installed. We cut and solder wires together and use shrink tubing for insulation then glue to roof (different from instructions).



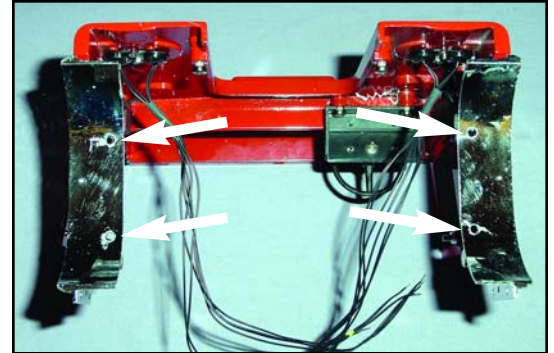
**Step 19**

Cab front half assembled and wired.



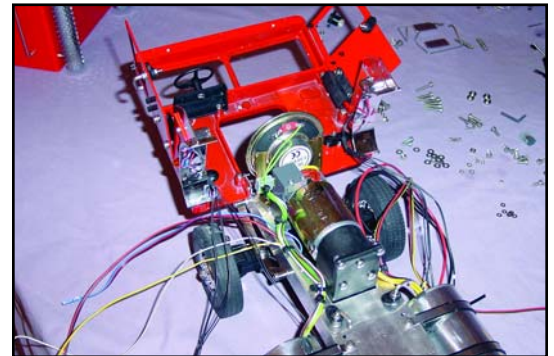
**Step 20**

Bottom view of cab front showing holes drilled for ty wraps to hold wiring (see arrows).



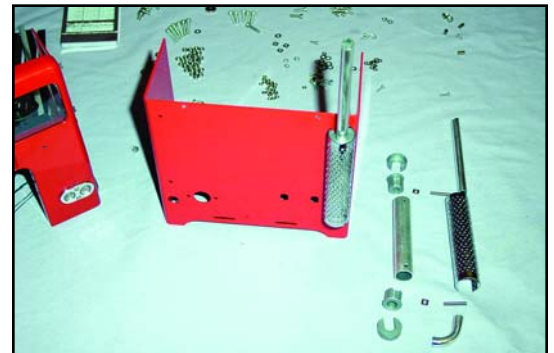
**Step 21**

Front half of cab on chassis.



**Step 22**

Assemble exhaust system leaving stacks loose enough to remove for shipping or storage.



**Step 23**

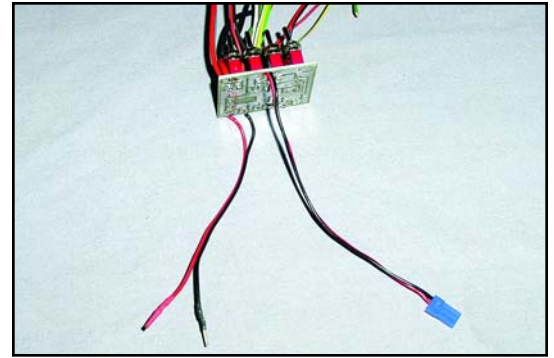
Sleeper buildup.





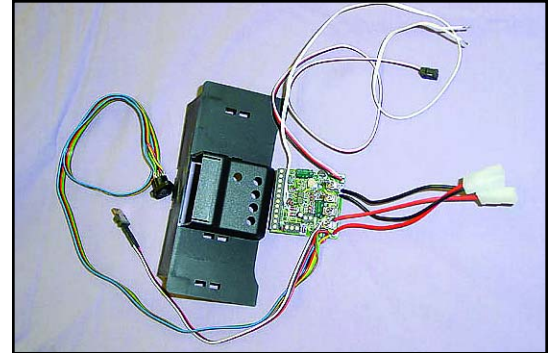
### Step 24

Main PC board with radio power supply leads soldered in place. power supply leads obtained by cutting from the "Receiver Switch/Power Supply Wire " supplied with radio kit.



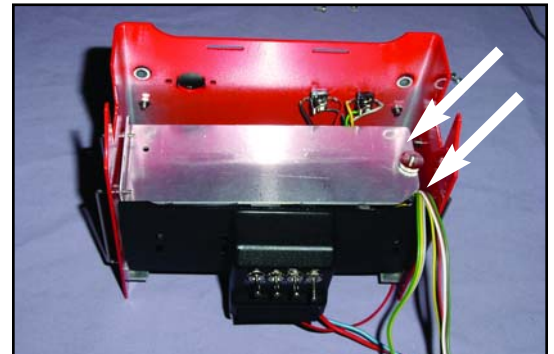
### Step 25

Plastic panel and main PC board.



### Step 26

Bottom view with battery tray installed, Note: crab rails, long on driver's side, cut off on passenger's side. (Arrows)



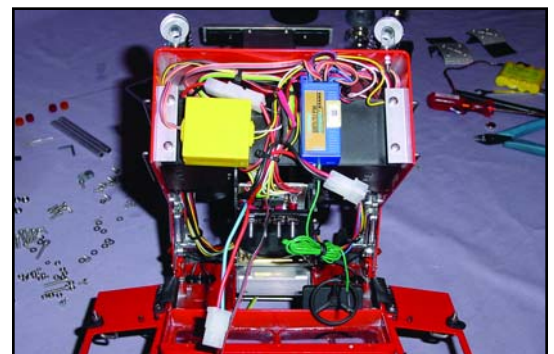
### Step 27

We have found that this is the easy way to finish wire the truck. Position sleeper half on front half of cab as shown and drill through the indicated hole (arrow) through the plastic and install the temporary bolt.



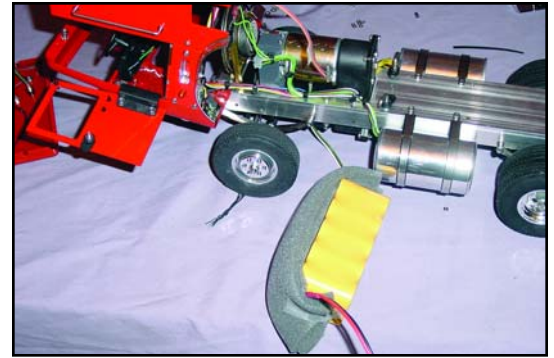
### Step 28

Install radio (blue) and dual E switch (yellow) and the rest of the wiring. NEATNESS COUNTS, WIRES MUST BE RUN IN AN ORGANIZED MANNER.



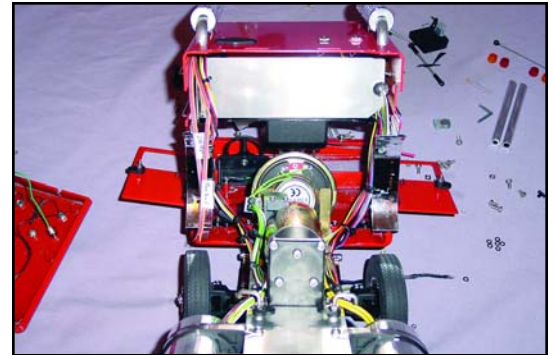
### Step 29

Install battery with padding.



### Step 30

Battery installed with base plate.



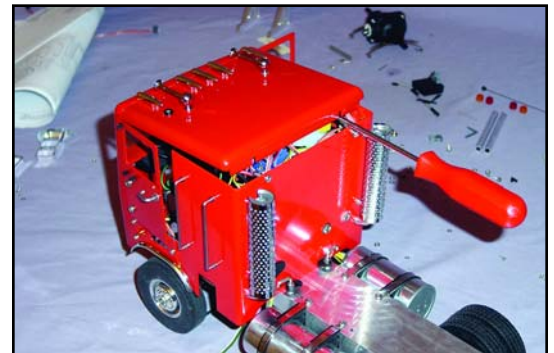
### Step 31

Installing roof, remove sleeper half from temporary installed position. Hook up all roof wiring.



### Step 32

Pre-start bolts with star washers. Install top over bolts and use a long reach screwdriver to reach the screws. Rear roof mount screws pre-started in holes with star washers, lower roof into position by pulling out on the screws with your fingernail or something and turning with the screwdriver. The star washer will grab the nut and you may blind tighten the bolt.



### Step 33

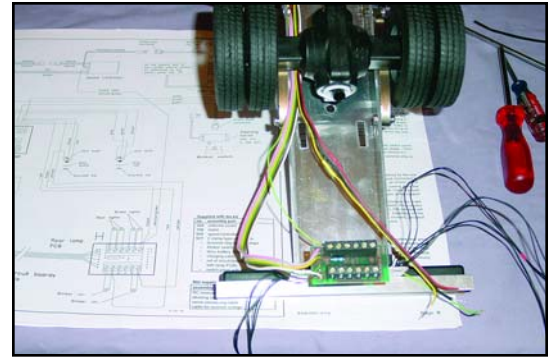
Install step and secure bottom of cab with bolts.





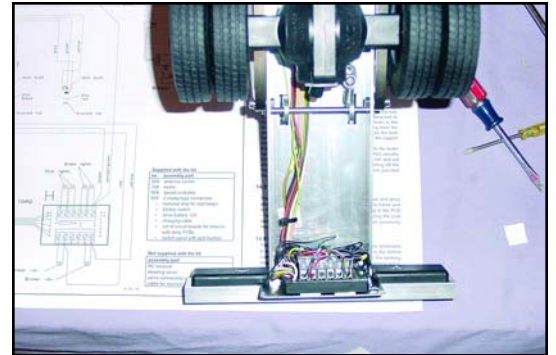
**Step 34**

Finish wiring all lights at rear PC board.



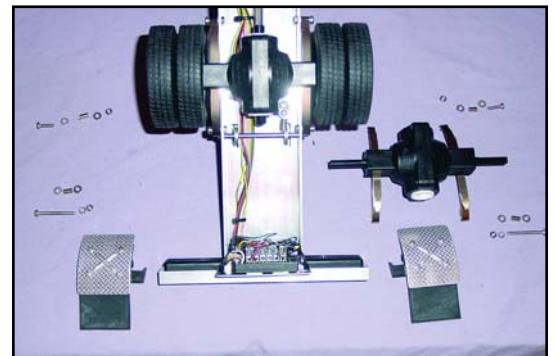
**Step 35**

Finished view of rear wiring system.



**Step 36**

2nd differential and mud guard to be installed.



**Step 37**

Finished view of truck and trailer.