

We are VEX Robotics team 7983Z of Centennial High School of Bakersfield, California, and have decided to attempt the Electronics Online Challenge Sponsored by Texas Instruments. As a team, we decided to disassemble a 2011 New Bright truck, a small remote control vehicle, and it's controller. Inside the disassembled truck, we located two HKEI motors, one in the front for steering and the other located in the back for forwards or backwards movement. We also located two different circuit boards, one marked as a 2022BW(SMD) Rev.4 and the other marked as a1085 HKW (SMD) Rev.1, neither of which are Texas Instrument based circuit boards. The former circuit board is located as the receiving end of the truck being located inside the remote controlled vehicle, while the latter is located inside of the actual controller and is the transmitting end of the pair. These were the only electrical parts found within the construct. While this little experiment was enjoyable and fun, several of us feel as though we didn't do enough for this challenge. Some of us have made a plan next year to attempt to disassemble a larger and more complex electronic system.



(The 7983Z Team that worked on this project)



(Two angles of the object disassembled before disassembly could commence)





(All the pieces removed from the RC truck and controller)