## CONSTRUCTION



By Richard Giovanoni

## This Icc Gocart Brings Home Economy Of Organization Rather Than Mileage

This past Christmas, when I added a primtr to my TRS-B0 Coler Computer, the became obvious that I would have to consolidate my work area. Too hen, Two of my some were home from college it's attantion of my some were home from college it's attanrationable to their presence. Necessity, then, was the mother of my prototype portable computer center, les Gouert.

Now my total operation is contained within a foursquare-foce area. It's on wheels and I can retreat to any leftover space in the house. The computer, printer, recorder, tapes, notebooks and magazines have all been stacked and shelved in a converted stereo cabinet. (The chean kind that so for about \$200 on sule.) The overall



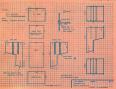
Since this was my prototype, a good deal of the comtruction was distanted by what to dds and ends 1 had on hand. This included the strene cabinet which no longer was in use. As it turned out, the system has worked so well that I haven't even taken the time to finish it up properly. The printine brauty of its rough hewn plywood remains intact for all to endmire.

## Construction

Building the Gocart was done in two stages, the base and the equipment-holding upper section.

It all started with the basic stereo cabinet; it set the size, and because it was available, meant the project could be completed sconer. Five major modifications were needed to fill my requirements.

- Metal reinforcing angles were added to all four corners on the back of the cabinet to make the unit more solid.
- 2) I added the casters along the bottom, using eight of them mounted on pieces of scrap one inch board. I figured eight of them were needed to distribute the load and provide stability.
- 3) The second sliding shelf was in stalled four inches down from the top. In my case this is a piece of half inch plywood, 20 x 15 inches. Strips of half-inch quarter round molding make up the rails as shown in Detail A on page 10 the plans.
- 4) A 1½ inch hole was cut in the middle of the back panel about two inches down from the top so the recorder cord and cable could be brought out to the power outlet and commere.



5) To provide support for the TV, an end support, 12 inches wide was added to the left side between the upper and lower shelves. By incerting the extra shell as shown, I picked up a place for my notebooks and other miscellaneous stuff that I tend to accumulate.

tion of the equipment bay shown in the plans on page 1.

trigured out now to stack up the rest of the equipment so that I could get at, and see everything in the most efficient manner for me. I'm right handed, over six feet, and a lossy typist, all of which influenced my set up and some of the vertical dimensions.

Page 1 of the plans shows the layout of the pieces that make up the equipment bay. They were all cut out of hall inch plywood. After the rails for the sliding shelves have been put on with giue and brads the sides can be assembled to the base. I used glue and four penny finish mails. By slipping in the shelves at this time the proper

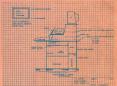
TV shell is harmered home. At this point the unit is solid as a rock. The printer shell is installed last. All those 134 inch holes are for getting the cables and ceech routed to the proper place and still keeping them out of the way.

The completed bay was lined up on top of the base and clamped in place while 1 drilled 16 inch holes at each end down through the top shell of the base. Quarter-inch bolts and wing make everything secure and allow for easy removal

The casel holds papers or magazines when trying programs. The location is a must fee me. As a hum and pock, two-fingered typical I have to have the copy as close to the keyboard as possible. That's one of the main reasons for my "in-line" arrangement of the cajutient. This setup also makes it easier to check the text To attach the ease! I used an old bracket that I found in my lunk box. I benit it to about a 60 degree angle and then beited it to the front edge of the printer shelf. The casel was then attached with another bolt to the other leg of the bracket. I found that it was best for me to adjust the location of the casel so that the lower edge just resis on the top of the compater case.

The easel is a piece of leftover peghoard. I glued halfinch flat molding strips along the top and sides. A piece of one inch inside corner modding serves as a lip that forms the paper rest.

A short extension cord with three outlets is attached to the back of the cabient near the computer can. Printer, computer and recorder power cords, fed through those 1% inch holes along the sides, all plug in hêre. It is close to wy left hand is substant 1 can unplug the computer easily an the end of a session. The excess length of the cables and cords are coiled and secured with unpluse here is and life



ct against the screen

My daughter, Mary, at the controls. The overall arrangement is shown with the BW portable I use most of the time. The recorder shell is in the stored mailtion. out of the way on the base of the equipment bay under the printer and paper shelves.

As an example of routing, the cable from the RF modulator feeds down through the hold in the right side of the TV sheet, our the top hole in the right side, back in through the bottom hole and then to the computer part, with the excess colled up. This path keeps if out of the way of the primer and the paper feed.

I added the optional storage shelf above the paper tray because the space was there to use. When the printer is in use I slide this shelf back out of the way.

It I had to do it over, I would make the printer shell a couple inches deprer (as shown by the dotted lines on the plan) to give me a little more clearance for my DMP 100 printer. Obviously, this particular shelf has to be sized to whatever printer you may have. Next time 1 would use ball-type casters: It would be much caster when moving over carpeted areas. I am still trying to figure out how to ad a built-in light.

I'm really happy with the setup and hope that it contains some ideas useful to others.

