CONNECT 2 RIGS IN YOUR CAR
AND GET BETTER AUDIO, TOO.

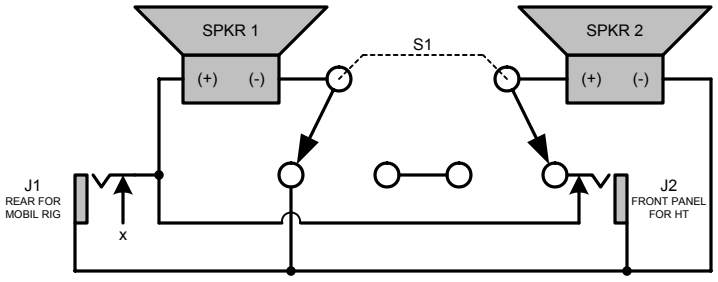

Fig. 1

PARTS LIST

J1 & J2 = 1/8" closed circuit jack.
S1 = DPDT switch, any style.
SPKR 1 & SPKR 2 = Speakers, any size or style, preferably matching.

S1 SHOWN IN POS'N. 1

POS'N. 1 = J1 - Parallel or if 2nd rig is used,
J1/J2 Separate connection

POS'N. 2 = J1 - Series connection
J2 - No connection

By DICK OBER K1VRA

Although I usually have only 1 rig in the car, sometimes I want to use a hand-held, too. But the speaker in my hand-held units are almost never adequate in the noisy environment of an automobile. Some years ago, I purchased a pair of 3" wide-range speakers that were a perfect fit in some un-used speaker mounts in the dash of my Olds 98. I connected them to my VHF rig, and I liked the way these speakers sounded so much that when I got rid of the car I kept them. Another way to handle the problem is to use a "cassette adapter" and use the car's sound system for the HT. I couldn't do this because my present car only has an AM / FM radio - no cassette player! Many newer vehicles have CD players, so that's not an option, either.

My present vehicle has an un-used 4" x 10" speaker opening in the center of the dash. Sometimes this size speaker can be difficult to find, so I removed the steel filler plate, drilled two 3" holes in it and mounted both of my 3" wide-range speakers side-by side. Next, I wired them to 2 jacks and a switch so I could use them with 1 or 2 rigs, depending on my needs at the moment. The 2 speakers do not have to be close to one another; just make use of any available openings. In my Olds, they were on opposite ends of the dash.

Perfectly fitting speakers for any car are available from a number of manufacturers and, by using existing, unused speaker openings (most cars have several), you avoid adding extra clutter in your car (XYLs like this) while gaining impressive sound from your rig.

Another feature I wanted was to be able to re-configure the speakers so that, when used with only 1 rig, they could be connected either in parallel or in series. Why? Because not all rigs work best with the same speaker impedance, and sometimes you get a slightly different "sound" from 2 speakers connected in series than when the same 2 speakers are connected in parallel. So I added a switch to change the connection.

In Figure 1, when S1 is set for parallel connection, J1 feeds both speakers in parallel or, when you connect a 2nd rig to J2, the speakers will automatically operate independently, with 1 speaker connected to each rig. When S1 is set for the series connection, J2 is disabled. (NOTE: The 'commons' of each rig will be connected together - it's up to you to determine if this is OK with your rigs. This shouldn't be any problem with a hand-held.)

For best results observe speaker polarity or the sound will cancel when used with a single radio.