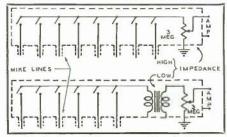
to the ventilator system which ran beneath the floor.

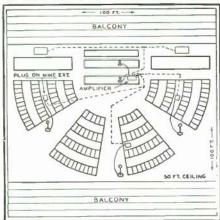
One microphone was placed on the speaker's desk, one on the reading clerk's desk and the other three, one to each division on the floor. The extension lines were run out to a central point in each of these divisions and provided with a plug-in connection.



Method used for connecting both hi and lo impedance microphones to amp.

The mike for each section was mounted on a floor stand and provided with a long cord allowing it to reach any desk in that section. These mikes were then moved by page boys to any Representative wishing to speak. This idea was used only as a trial. After the spring session the entire floor is to be wired. This will allow any number of mikes necessary to be used. This can still be done with the present equipment by using a switching system to pickup the mike or mikes that wish to be heard. A switchboard for each section will be necessary. Each of these three switchboards will then feed into the corresponding preamplifier tube. If two mikes used in same section they are paralleled connected.

The amplifier itself was placed beneath the reading clerk's desk. He could turn on any mike needed. Most of the activity of the Chamber's busi-



Seating arrangement of the House was surely conducive to feed-back, but amplifier design prevented it.

ness centered around his desk so he always knew what was going on and what was likely to take place out on the floor. Fortunately for us, and the Representatives, one of the clerk's assistants, a girl, had been an operator in a broadcasting station. She knew about gain, feedback, mike placement and many other things that made her (Switch to page 61, pleuse) The VIDEO REporter

### by SAMUEL KAUFMAN

HE RADIO CORPORATION OF AMERICA went to town in a big television way at the recent convention of the National Association of Broadcasters in Atlantic City. The best in video developments RCA had at its command in New York and Canden were rushed to the seaside resort so that station owners and broadcasting executives could see just how far television has really advanced. There, assembled, was the greatest single group of prospective television station owners. But even broadcasters who have realized huge profits in sound programs are cautiously eyeing this thing called television before deciding to plunk many thousands of dollars into it. Anyway, RCA

didn't miss a bet in putting its video achievements across. And all the stunts made a big hit with the crowd.

the crowd. The opening day of the convention called for a demonstration of the much - publicized mobile unit which was brought down the coast from New York. The television station - onwheels was en route to Camden for overhauling and the addi-tion of a second iconoscope camera. assortment of boardwalk and surf programs was picked up on sets installed in the Ambassador Ho-At times a camera on the hotel ter-race was left on unattended and persons peeking at the re-ceiver models indoors were able to view the familiar boardwalk scene.

All these stunts were highly interesting to the delegates but what really stole the show was the twoway television dem-

the show was the two-way television demonstration whereby a delegate on one floor of the hotel could hold a conversation with a delegate on another floor while viewing each other. The Video Reporter took part in one of the test conversations and felt that it was easier to get tanned by the studio lights than by the famous Atlantic City sunshine outside. Nine years or so before, your Video Reporter participated in a similar two-way sight-and-sound demonstration conducted by the Bell Telephone Laboratories in New York. RCA made no bones about not being the first to try the stunt. But the Canden lads did emphasize that their arrangement was the first experiment with two-way high-definition television, pointing out that the previous experiment was a mechanically-scanned job.

The RCA two-way test was accomplished by a crude layout of equipment. But it worked. And that's what counted. Two separate circuits were laid out over wires. The person facing the camera under the battery of lights merely had to glance down on the mirror lid of a receiver in front of him to see the person to whom he was talking. And the other one saw him in a like manner. The receivers had to be draped with a small

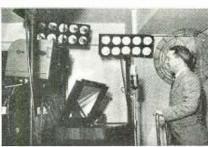
mask opening for viewing purposes, this being essential to keep out the excessive light needed for the pick-up portion of the arrangement. The video monitoring was accomplished by the new "Jeep" unit which nade its formal debut at the broadcasters' sessions. And the "Jeep" is a thing we'll tell you more about.

THE reason we are using quotes on the word "Jeep" is because that isn't the official name of the unit. It is more formally known as "television picture equipment." But the name "Jeep" seems to be sticking and, unless anyone owns commercial rights to it, that may easily become the unit's regu-

become the unit's regular cognomen.

The unit resembles the firm's 12-inch screen television receiver in outward appearance. This is especially emphasized in the use of a mirror in the use of a mirror lid for monitoring purposes. The "Jeep" accommodates a single iconoscope camera and produces a television picture for demonstration purposes or for tele-vision receiver serv-icing. It can demonstrate television theory in areas where no video signals are on the air. Thus, it can be employed at fairs, schools and other locations for promo-tional or educational purposes. Also, it is invaluable for testing and adjusting television receivers, partic-ularly at times when no sight - and - sound program is on the air. Also, it is understood that the "Jeep" can be employed for television program pick-ups, the chief draw-back in this usage be-ing the limitation to a



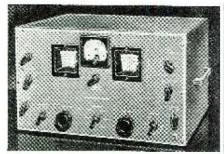


RCA recently accomplished two-way television-telephone conversation. During the conversation one can see the person to whom one speaks.

single camera.

THERE'S considerable grumbling among television set and equipment makers over the public's slow response to television in terms of receiver sales. And it's no easy task to find the reason. But there are several good bints.

Publicity for television has been quite satisfactory since the launching of the regular schedule last spring. Newspapers in the New York area gave the new art considerable space at a time when dailies in other parts of the country were sharply reducing editorial lineage devoted to radio. But there's a bit of a question over how long television can linger without paying its board. It seemed that television showed every sign of developing with boom-like swiftness. But the actual commercial pace is slow and, unless public interest warrants good-sized advertising appropriations, it is doubtful whether newspapers in television service areas will continue playing up the new art. It would be different if substantial numbers of receivers were sold; television, under (More Video Reporter on page 52)



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## Video Reporter

(Continued from page 37)

such conditions, would be a public service topic for newspapers, much in the same manner as sound radio is today.

And, to many newspaper publishers, television is an unknown quantity that may turn out to be either a boom or a boomerang.

out to be either a boom or a hoomerang. They are reluctant to give a helping hand to an industry that may turn out to be strongly competitive as an advertising medium.

At any rate, television manufacturers must admit that they've been getting splendid newspaper breaks. The slowness of set sales can't be blamed on poor publicity. There may have been negative points in some television stories but in virtually every instance it was fact rather than opinion. Such mentioned points as limited service areas, expensive installation costs, high set prices, and limited program schedules certainly didn't boost sales. But the industry, in all fairness, cannot blame the news writers for mentioning them.

THE AMERICAN TELEVISION COR-PORATION is featuring lens arrange-ments on its new models to slightly magnify

ments on its new models to slightly magnify images on small-size cathode-ray tubes. The use of a lens in front of a 5-inch tube gives an illusion of viewing a 9-inch picture. Actually, the picture isn't quite as large as that produced by a 9-inch tube, a company representative declared, but the diameter of the lens framed on the face of the cabinct does give the impression that the picture is larger than the actual magnified size.

We learned at our visit to the firm's New York laboratory that list prices of all receivers include installation. This is a decided merchandising asset inasmuch as some installation estimates are as high as \$50 and some dealers were reported to have refused making sales unless customers agreed to this surcharge. Many installations are complicated and are easily worth that fee. But, in a great many of instances, the job is so simple that buyers can't understand the service fee.

It is important at this stage of the new arter.

ice fee.

It is important at this stage of the new art It is important at this stage of the new art to make certain that every sale is a satisfactory one. Every set sold today, if satisfactory, will sell many additional sets in the near future. To most people television is still a novelty and the purchasing of a video unit for a private home indicates that it will be seen by relatives and friends of the buyer and of whom are notential huyers them. f whom are potential buyers them-Hence it is to the maker's advantage -all of from many angles to ascertain that every unit sold will function efficiently.

-30-

#### Leakage Tester (Continued from page 24)

Plate Filter Condensers: In most receivers, one or more amplifying tubes have a filter in the plate circuit, consisting of a resistor in series with the load, the junction by-passed to ground. Such condensers may be checked by removing the tube, and measuring the d.c. voltage across the filter resistor. Any voltage appearing is due to leakage through the condenser to ground.

Many other tests are possible, and may be developed as the operator becomes more familiar with the instrument's use. Fuller information on the subject may be obtained from other sources, among them an excellent exposition by George Connor, in Sylvania News.

The labor of assembly may be greatly simplified if the following procedure is observed. The power supply should be constructed first, and the 6E5 connected to it. The potentiometers should be installed on the panel

## For the Beginner



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