

MOBILE RADIO STATION SEE PAGE 658

AUGUST

1944

25

CANADA 30

SCHOMBURG

RADIO-ELECTRONICS IN ALL ITS PHASES

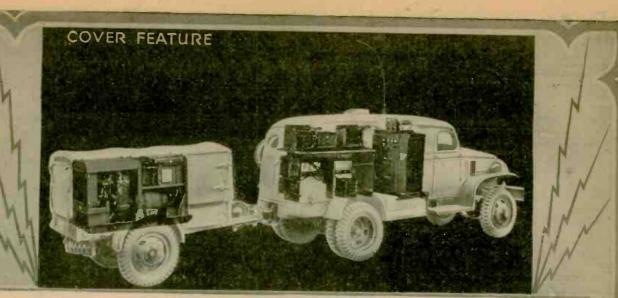


Photo courtesy Tho Hallicrafters

MOBILE RADIO STAT

"Mack Truck Portable" is a term which has come down to us from the earliest attempts to build radios THE "Mack Truck Portable" is a term which has come down to us from the earliest attempts to build radios that could be carried. Some of these were so bulky and heavy that the idea of a truck to carry them suggested itself automatically. It remained for the present global war to make such a "portable" a reality. And reality it is, in the Signal Corps mobile radio station, SCR-299, illustrated on our cover this month. The SCR-299 is normally carried in a 1½-ton army truck, and also appears in other conveyances, such as the use on the sands of Africa and may yet turn up on a propeller-driven sled for use in a Northern winter. In a word, the SCR-299 is the ultimate in mobility and power. The transmitter is the Hallicrafters HT-4, modified to meet the exact-ing specifications necessitated by its work as a mobile radio.

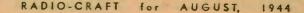


ing specifications necessitated by its work as a mobile radio. It is a 450-watt voice and C.W. set, which had been thoroughly tested and proved as an amateur rig before be-ing drafted into the service of the country. It is powered —as are the receivers and an electric heater also in-stalled in the truck—by a 117-volt Onan generator in a trailer behind the truck. The equipment includes two stanequipment includes two stan-(Continued on page 701)

Signal Corps Photos The five illustrations show several views of the Army's SCR-299 in various types of conveyances. Phantom above is a good view of the power plant.







MOBILE RADIO STATION

(Continued from page 658)

dard receivers, the Signal Corps BC-312 and BC-342, and a speech amplifier.

Two field telephones with a mile of wire are also included, so the truck can become part of a liason network with wire and radio communication, using only its own apparatus. The truck provides space for accessories not easily carried with more compact rigs, so we find a complete set of tools and spare parts and a Signal Corps frequency meter as permanent equipment.

The range of the 450-watt transmitter is said to be over 100 miles in daylight, using either voice or code, and travelling at full speed. A special type of antenna transformer was required to match the output of the transmitter to the 15-foot whip antenna used in the truck, and range is, of course, somewhat reduced by this limited radiation system. Where the set can be used in a permanent or semi-permanent position, a more suitable aerial is erected, and the range is greatly extended.