

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TM 11-5820-295-35

DEPARTMENT OF THE AIR FORCE TECHNICAL ORDER

TO 31R2-2GRC19-42

**FIELD AND DEPOT
MAINTENANCE MANUAL
RADIO SET ANIGRC-19**

This copy is a reprint which includes
current pages from Changes 1 and
2.

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

16 SEPTEMBER 1960

TECHNICAL Manual
No. 11-5820-295-35

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TECHNICAL ORDER
No. 31R2-2GRC19-42
RADIO SET AN/GRC-19

Washington 25,D. C., 16 September 1960

RADIO SET AN/GRC-19

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*This manual, together with TIM 11-5820-295-10, 3 June 1960, and TM 11-5820-295-20, 3 June 1960, supersedes TM 11-274, 27 April 1954, including C1, 11 January 1956; C2, 27 July 1956; C3, 7 February 1957; and C4, 17 May 1957.

CHAPTER 1

INTRODUCTION

1. Scope

a. This manual covers field and depot maintenance for Radio Set AN/GRC-19. It includes instructions appropriate to third, fourth, and fifth echelons for installing, troubleshooting, testing, and replacing of the equipment. It also lists tools, materials, and test equipment for third, fourth, and fifth echelon installation and maintenance. Detailed functions of the equipment are covered in the system theory section.

b. The complete technical manual for this equipment includes: TM 11-5820295-10, TM 11-5820295-10P, TM 11-5820-29.5-20, TM 115820-29520P, and TM 11-5820-2935P.

c. Forward comments concerning this manual to the Commanding Officer, U. S. Army Signal Materiel Support Agency, ATTN: SIGMS-PA-2d, Fort Monmouth, N. J.

Note. For applicable forms and records, see paragraph 2, TM 11-5820-29510.

2. Internal Differences in Models

Internal differences are listed in the chart below.

Item	Transmitter T-195/GRC-19	Transmitter T-195A/GRC-19
1,000-voltdc source	Dynamotor D602	Transistorized, high-voltage power supply A1200
Pa servoamplifier chopper G201	Vibrator type	Transistorized
Antenna network servoamplifier chopper G901	Vibrator type	Transistorized
V401 and V403	Type 12AT7	Type 12AT7WA
CR201 and CR202	Type 1N67A	Type 1N691
R912	270 ohms	470 ohms
R928	270 ohms	470 ohms
R930	1,800 ohms	Jumper wire
Autotune relays K608 and K610	Unsealed	Hermetically sealed