

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

TELEPHONE TEST SET TS-716/U
NORMS AND TESTING PROCEDURES

Headquarters, Department of the Army, Washington, D.C.
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WARNING**DANGEROUS VOLTAGES EXIST IN THIS EQUIPMENT**

Be careful when working on the
 115/230-volt-ac line connections
 and TEL LINE terminals L1 and L2.
 Up to 100 volts dc may be on the
 TEL LINE terminals.

DO NOT TAKE CHANCES!

	Paragraph	Page
Introduction.....	1	2
Scope	2	2
Equipment listing	3	2
Preliminary control settings	4	3
Starting procedure	5	3
Stopping procedure	6	3
Dynamic microphones test	7	3
Carbon microphones test	8	4
Earphones, receiver, and headset test.....	9	4
Headset-microphone combination test.....	10	5
Handsets test	11	6
Telephones tests	12	6
Dials test	13	9
Ringers test	14	9
Generators test.....	15	10
Insulation resistance test.....	16	10
Continuity test.....	17	10

LIST OF TABLES

1.	Index of equipments	2
2.	Norms for dynamic microphone	4
3.	Norms for carbon microphones	4
4.	Norms for earphones and headsets	5
5.	Norms for headset-microphone	5
6.	Norms for handsets	6
7.	Norms for telephone efficiency end-electrical test.....	8
8.	Norms for telephone efficiency receive-all electrical test	8
9.	Norms for telephone efficiency send-acoustical test.....	9
10.	Norms for telephone efficiency receive-electrical input, acoustical readout.....	9

1. Introduction. Telephone Test Set TS-716/U provides a "go-no-go" capability of determining the suitability for field use of various electroacoustic transducers and telephone devices. The TS-716/U provides the capability of performing the following tests:

- Transmit and receive efficiency of complete telephone sets.
- Speed and percent break of telephone dials.
- Line level and click suppression of varistor operation.
- Ringer operation.
- Telephone hand-generator output.
- Frequency response and sensitivity of earphones and microphones, including carbon types.
- Continuity check of circuit wiring.

2. Scope. a. This bulletin contains testing procedures and norms (limits of acceptability) applicable when using Telephone Test Set TS-716/U to evaluate sound transducers. The equipments for which testing procedures and norms are included are listed in paragraph 3. See TM 11-662512 for technical characteristics, operation, and operator and organizational preventive and corrective maintenance of the TS-716/U. Before performing any tests, perform the starting procedure (para 5) to determine that the TS-716/U is operating properly.

b. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding Officer, U. S. Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N.J. 07703.

3. Equipment Listing. Table 1 lists the equipment for which testing procedures are included in this bulletin and references the paragraphs containing the testing procedures and the tables containing the norms for each equipment.

Table 1. Index of Equipments

Nomenclature		Test procedure (para)	Norm (table)
Alpha-numerical	Noun		
G-42/PT	Generator	15	
GN-38B	Generator, Hand Ringing.....	15	
H-16()/U	Headset, Electrical	9	4
H-33()/PT ^a	Handset	11	6
H-43/U	Headset, Electrical	9	4
H-60/PT ^a	Handset	11	6
H-63/U ^a	Headset-Microphone	10	5
H-65/U	Headset, Electrical	9	4
H-90()/U ^a	Handset	11	6
H-91()/U ^a	Headset-Microphone	10	5
H-94/U ^a	Handset	11	6
H-101A/U ^b	Headset-Microphone	10	5
H-113/U	Headset, Electrical	9	4
H-138/U ^b	Handset	11	6
H-140/U	Headset, Electrical	9	4
H-144/W ^a	Headset-Microphone	10	5
H-157A/AIC ^b	Headset-Microphone	10	5
H-158/AIC	Headset, Electrical	9	4
H-161/GR ^a	Headset-Microphone	10	5
H-165/U ^b	Handset	11	6
H-182/PT ^a	Headset-Microphone	10	5
H-183/U	Headset, Electrical	9	4
H-189/GR ^b	Handset	11	6
H-207/U ^b	Handset	11	6
H-216/U	Headset, Electrical	9	4
H-227/U	Headset, Electrical	9	4
H-250/U ^b	Handset	11	6
H-251/U	Headset, Electrical	9	4
H-269/G	Earphone, Dynamic	9	4
H-294/U ^b	Handset	11	6
HS16A	Headset, Electrical	9	4
M-29B/U	Microphone, Carbon	8	3
M-30/U	Microphone, Dynamic	7	2
M-35/U	Microphone, Carbon	9	3
M-43()/U	Microphone, Dynamic	7	2
M-51 /UR	Microphone, Carbon	8	3
M-52/U	Microphone, Carbon	8	3
M80C/GR	Microphone, Dynamic	7	2
MH87/AIC	Microphone, Dynamic	7	2
M-105U	Microphone, Dynamic	7	2

See footnote at end of table.