

INSTRUCTION BOOKLET

SB-4035/UGQ

(FORMERLY TABET MODEL TC-350)

TC-350
GENERAL INFORMATION

1-1 PURPOSE AND BASIC PRINCIPLE

Teletypewriter Patch Panel TC-350 is designed to facilitate interconnection and transfer of teletypewriters and various types of terminal equipments. The unit will accommodate 24 teletypewriter channels.

1-2 FUNCTIONAL DESCRIPTION

Components of the patching panel are housed in an aluminum cabinet. All patching is accomplished from the front panel. The front panel is hinged at the bottom and secured at the top by captive screws. Front panel controls consist of the following:

- A. Line Current Adjusting Rheostats (24). Each rheostat, numbered 1 through 24 controls the line current in one circuit, 1 through 24.
- B. D.C. Milliampere Meter. Used in conjunction with the line current adjustment rheostats for setting line current in circuits.
- C. Meter Jack. To connect line current meter to any one of the 24 circuits.
- D. Jack Field. The jack field consists of 24 individual circuits for teletypewriter patching options. Each loop or circuit contains the following jacks:
 - 1. LPG. Looping Jacks. Normally closed contact phone jacks. Any teletypewriter patched to LPG jack with patch cords is connected in series in that particular channel. Two LPG jacks are provided in each channel.
 - 2. SET. Set jacks. The jacks labelled SET incorporate a double-throw-double-pole switch. By inserting a DUMMY PLUG into the SET jack, the teletypewriter originally in this channel is disconnected. By inserting a patch cord into the SET jack, the teletypewriter originally connected is removed from that circuit and can be patched to any other circuit by inserting the patch cord into the LPG jack of the desired circuit. Two set jacks are provided in each circuit.
 - 3. MISC. Miscellaneous jack. These jacks are normally closed contact phone jacks identical to the LPG jacks. The MISC jacks are not wired to any particular circuit. Teletypewriters not normally assigned to a converter or other terminal equipment are internally connected to the MISC jacks and are then available for patching to any circuit. One misc. jack are provided in each circuit.

1-3 POWER REQUIREMENTS

The TC-350 requires TWO 120 VDC to operate all 24 circuits. Circuits numbered 1 through 12 are connected to power supply number 1, circuits 13 through 24 are connected to power supply 2. Loops which require local line current are connected as shown in the schematic drawing, with Jumpers across "L" terminals. Loops which furnish their own line

current are connected by removing the Jumpers across "L" terminals and wiring across "R" terminals.

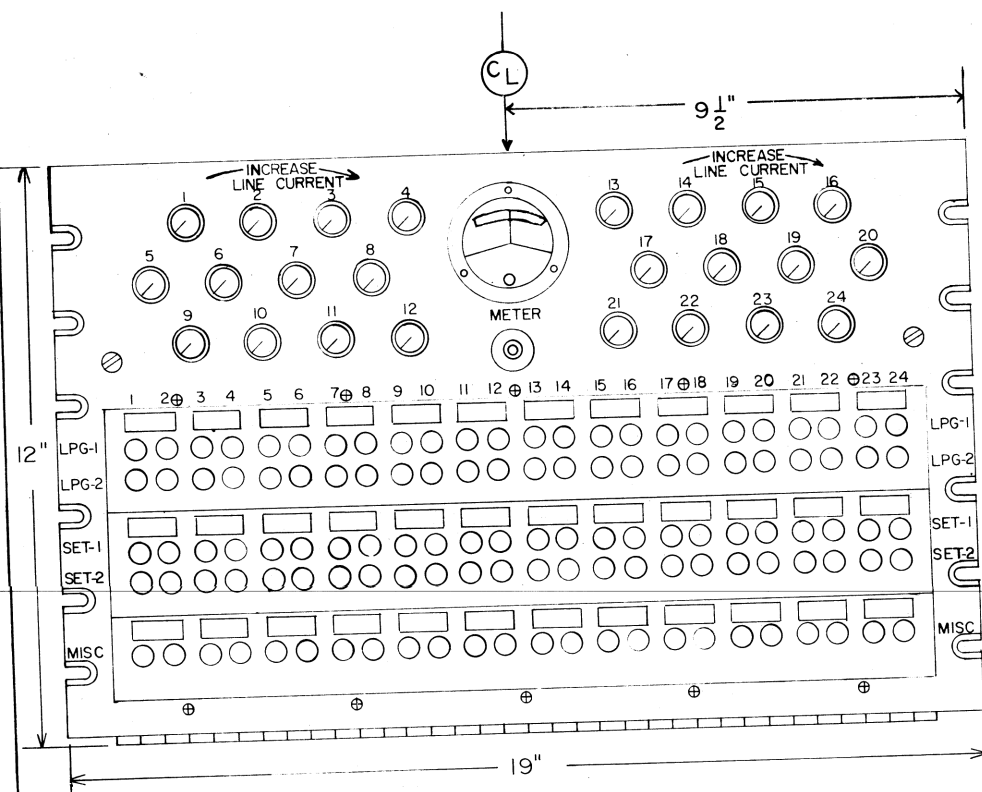
1-4 DRAWINGS ENCLOSED:

Outline drawing	350-1001-01
Schematic	350-1001-02
External wiring	350-1001-03

TC-350
PARTS LIST

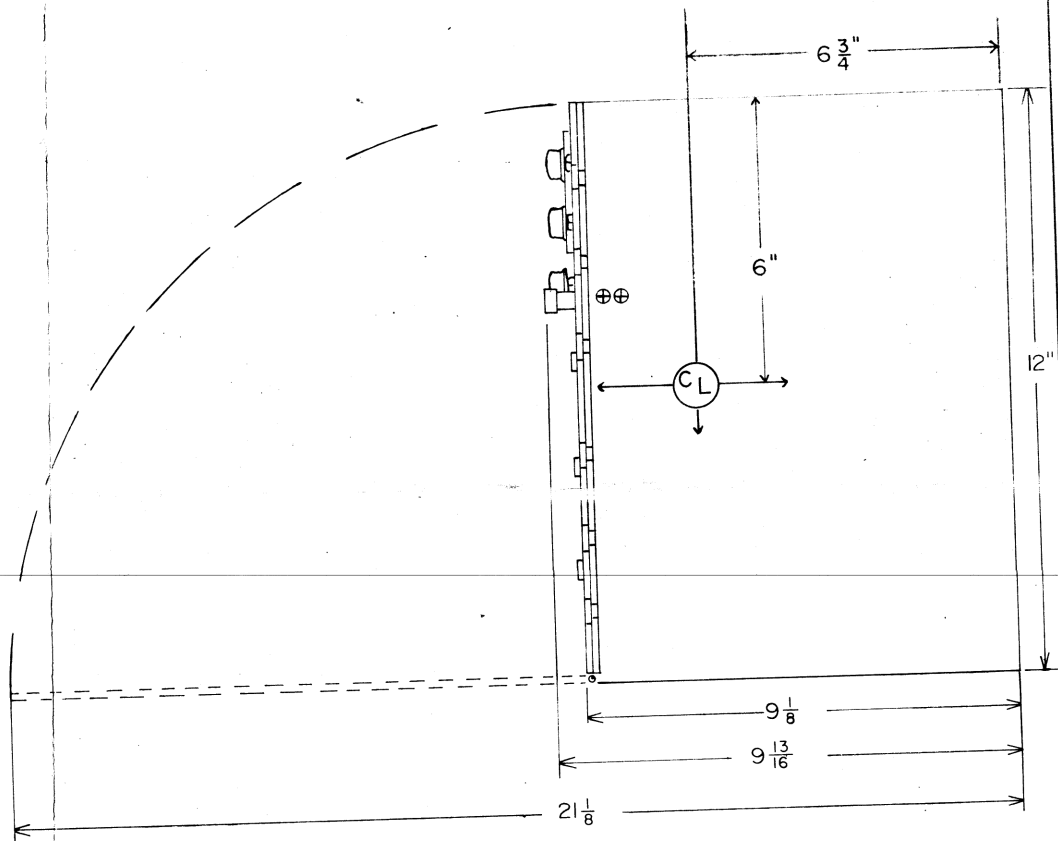
PART NO.	QTY.	DESCRIPTION	TABET PART NO.
J-1 thru J-48 & J-97 thru J-121	73	Jacks, Switchcraft CMT-332C(JJ-016)	350-1001-26
J-49 thru J-96	48	Jacks, Switchcraft CMT-336E(JJ-019)	350-1001-27
-	2	Jack Mounting Strip (Trimm 96-22-00 MODIFIED)	350-1001-28
-	1	Jack Mounting Strip (Trimm 96-21-00 MODIFIED)	350-1001-29
-	3	Designation Strips for Jack Mounting Strips (Trimm P/N JP-30 C)	350-1001-30
R-1 thru R-24	24	Resistor, 1000 ohm, 25 watt (Dale P/N RH-25)	350-1001-31
R-101 thru R-124	24	Rheostat, 1500 ohm, 12 1/2 watt (OHMITE P/N 0120, Model E, Type E-1500-F1)	350-1001-32
-	24	Knobs for R-101 thru R-124 (OHMITE Type 5151)	350-1001-33
M-1	1	METER 1-0-1 ma. Scale 100-0-100, 2 1/2" round, 26 OHMS, 3% (Phaotron Inst. & Elec. P/N 621-15483)	350-1001-34

PART NO.	QTY.	DESCRIPTION	TABET PART NO.
-	1	Meter Resistor Mounting Board	350-1001-35
-	1	Resistor, 10 ohm, 1% (D.F. Associates P/N 10R00F)	350-1001-36
-	1	Resistor, 970 ohm, 1% (D.F. Associates P/N 970 ROF)	350-1001-37
TB-1 thru TB-20	20	Terminal Board (kulka 26 TB 12)	350-1001-38
TB-21	1	Terminal Board (kulka 26 TB 6)	350-1001-39
-	246	Connectors (kulka Type 99)	350-1001-40
-	492	Terminal Nuts (3/16" Nut Drive or Straight Slot)	350-1001-41
-	2	Eye Bolts 3/16 X 1 1/2" (National MFG. P/N 2160)	350-1001-42
-	1	Safety chain	350-1001-43
-	2	Thumb Screws	350-1001-44
-	2	Thumb Screw Retainers with Mtg. Hardware	350-1001-45

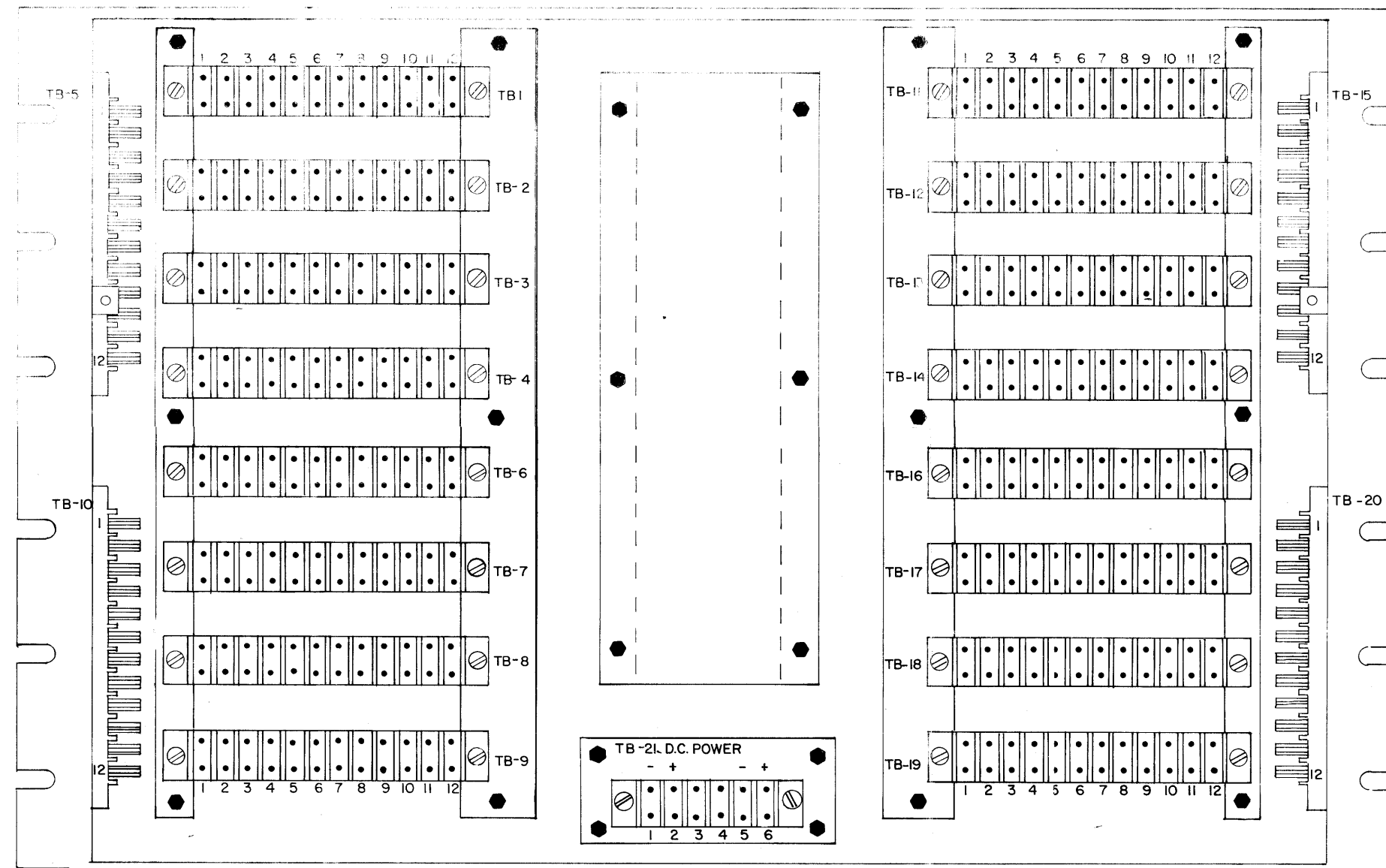


WEIGHT: 35 lbs.
 WIDTH: 19"
 HEIGHT: 12"
 DEPTH: 9 ¹³/₁₆"

NOTE: RED FRONT PANEL INDICATES SECURE SYSTEMS ONLY



CONTRACT NO.		TABET MANUFACTURING Co., Inc. NORFOLK, VIRGINIA		
DRAWN		END		
TRACED				
APPR'D		<i>Ernest M. Dent</i>		
DATE		JULY 18, 1978		
SIZE	CODE IDENT NO.	DRAWING NO.		REV.
C	88829	350-1001-01		A
SCALE NONE		SHEET 1 OF 1		



CIRCUIT NO.	LOOP JACK	SET JACK NO. 1	SET JACK NO. 2	MISC. JACK	LBR POWER
1	TB1/1,2	TB2/1,2	TB3/1,2	TB4/1,2	TB5/1,2
2	TB1/3,4	TB2/3,4	TB3/3,4	TB4/3,4	TB5/3,4
3	TB1/5,6	TB2/5,6	TB3/5,6	TB4/5,6	TB5/5,6
4	TB1/7,8	TB2/7,8	TB3/7,8	TB4/7,8	TB5/7,8
5	TB1/9,10	TB2/9,10	TB3/9,10	TB4/9,10	TB5/9,10
6	TB1/11,12	TB2/11,12	TB3/11,12	TB4/11,12	TB5/11,12
7	TB6/1,2	TB7/1,2	TB8/1,2	TB9/1,2	TB10/1,2
8	TB6/3,4	TB7/3,4	TB8/3,4	TB9/3,4	TB10/3,4
9	TB6/5,6	TB7/5,6	TB8/5,6	TB9/5,6	TB10/5,6
10	TB6/7,8	TB7/7,8	TB8/7,8	TB9/7,8	TB10/7,8
11	TB6/9,10	TB7/9,10	TB8/9,10	TB9/9,10	TB10/9,10
12	TB6/11,12	TB7/11,12	TB8/11,12	TB9/11,12	TB10/11,12
13	TB11/1,2	TB12/1,2	TB13/1,2	TB14/1,2	TB15/1,2
14	TB11/3,4	TB12/3,4	TB13/3,4	TB14/3,4	TB15/3,4
15	TB11/5,6	TB12/5,6	TB13/5,6	TB14/5,6	TB15/5,6
16	TB11/7,8	TB12/7,8	TB13/7,8	TB14/7,8	TB15/7,8
17	TB11/9,10	TB12/9,10	TB13/9,10	TB14/9,10	TB15/9,10
18	TB11/11,12	TB12/11,12	TB13/11,12	TB14/11,12	TB15/11,12
19	TB16/1,2	TB17/1,2	TB18/1,2	TB19/1,2	TB20/1,2
20	TB16/3,4	TB17/3,4	TB18/3,4	TB19/3,4	TB20/3,4
21	TB16/5,6	TB17/5,6	TB18/5,6	TB19/5,6	TB20/5,6
22	TB16/7,8	TB17/7,8	TB18/7,8	TB19/7,8	TB20/7,8
23	TB16/9,10	TB17/9,10	TB18/9,10	TB19/9,10	TB20/9,10
24	TB16/11,12	TB17/11,12	TB18/11,12	TB19/11,12	TB20/11,12

LOCAL D.C. POWER NO.1 = TB-21/1,2.
LOCAL D.C. POWER NO.2 = TB-21/5,6.

NOTE:

ODD NUMBER TERMINALS= Negative circuit.
EVEN NUMBER TERMINALS= Positive circuit.
LOOP JACK = TB-1, TB-6, TB-11 & TB-16.
SET JACK NO. 1=TB-2, TB-7, TB-12 & TB-17.
SET JACK NO. 2= TB-3, TB-8, TB-13 & TB-18.
MISC. JACK= TB-4, TB-9, TB-14 & TB-19.
LOCAL AND REMOTE POWER=TB-5, TB-10, TB-15 & TB-20.

ALL TERMINAL MARKINGS (1-12 on TB-1 thru TB-20 & 1-6 on TB-21)
ARE LOCATED ON MOLDED TERMINAL BOARD.
LOCAL D.C. POWER No.1 OPERATES CIRCUITS 1 thru 12.
LOCAL D.C. POWER No.2 OPERATES CIRCUITS 13 thru 24.

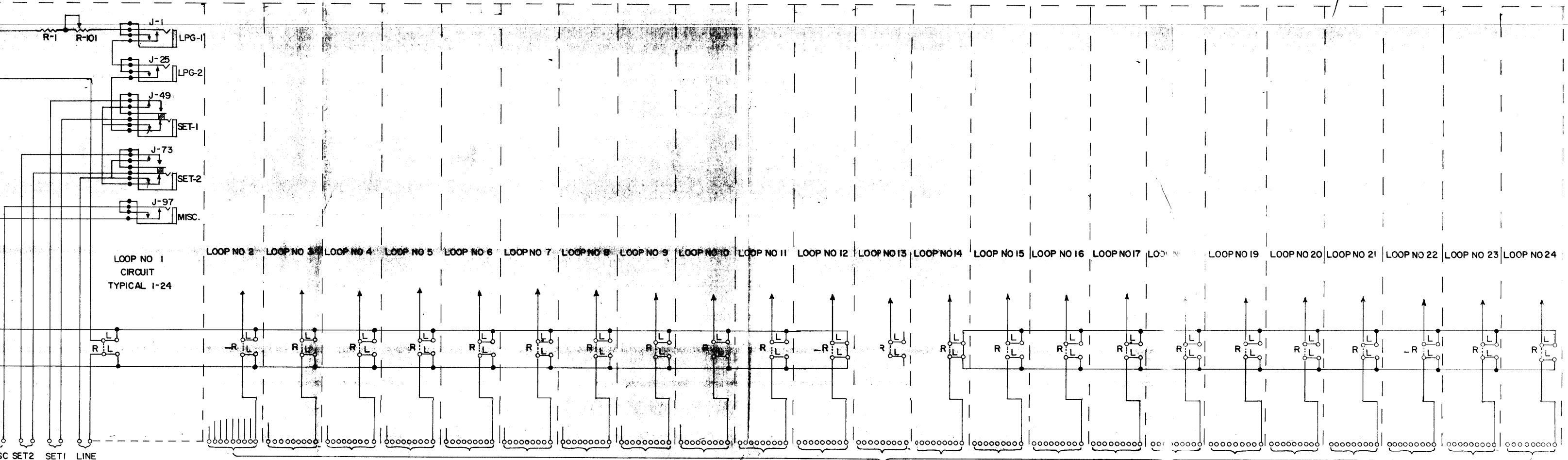
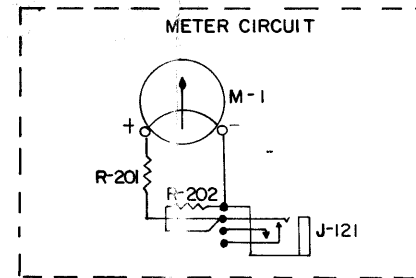
NOTE:

1. LOOPS WHICH REQUIRE LOCAL LINE CURRENT ARE SUPPLIED BY CONNECTING THE REMOVABLE STRAPS ACROSS THE LOOP TERMINALS AS SHOWN.
2. LOOPS WHICH SUPPLY THEIR OWN LINE CURRENT ARE CONNECTED BY REMOVING LOOP STRAPS AND CONNECTING ACROSS REMOTE TERMINALS AS SHOWN IN DOTTED LINES.
3. UNIT IS SUPPLIED WITH 12 TERMINALS STRAPPED AS SHOWN.

CAUTION:

IN THE EVENT AN EXTERNAL D.C. POWER WILL BE CONNECTED TO THE REMOTE TERMINALS. THE LOOPING STRAPS MUST BE REMOVED IN ORDER TO OPERATE BOTH LOCAL AND REMOTE D.C. POWER PROPERLY.

CONTRACT NO.		TABET MANUFACTURING CO., INC. NORFOLK, VIRGINIA			
DRAWN	END	EXTERNAL WIRING DIAGRAM			
TRACED		TC - 350			
APP'D	<i>Ernest Dent</i>	MILITARY SB-4035/UGQ			
DATE	JULY 19, 1978	SIZE D	CODE IDENT NO. 88829	DRAWING NO. 350-1001-03	REV. A
SCALE 1/2"=1'		SHEET		OF	



SAME AS LOOP NO 1

INSTALLATION NOTES:

1. Loop which require local line current are supplied by connecting the removable straps across the loop terminals as shown.
2. Loops which supply their own line current are connected by removing loop straps and connecting across remote terminals as shown in dotted lines.
3. Unit is supplied with loop terminals strapped as shown.

4. In the event an external D.C. power will be connected to the remote terminals.

The looping straps must be removed in order to operate both local and remote D.C. power properly.

CONTRACT NO.		TABET MANUFACTURING Co., Inc. NORFOLK, VIRGINIA
DRAWN	E. DENT	
TRACED		TC - 350