

TELETYPEWRITER LOOPS

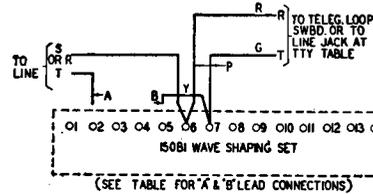
WAVE SHAPING – LOOP LENGTH LIMITS – NOISE INFLUENCE

1. GENERAL

1.01 This addendum shows termination plans for teletypewriter subscriber lines. The connection of wave shaping sets is given.

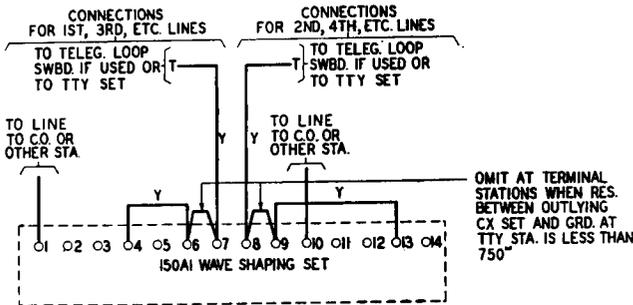
1.02 The following circuit labels are shown:

- Fig. 1 - 150A1 wave shaping set
- Fig. 2 - 150B1 and 150C1 wave shaping sets
- Fig. 3 - 150D1 and 150E1 wave shaping sets
- Fig. 4 - 150F1 wave shaping set

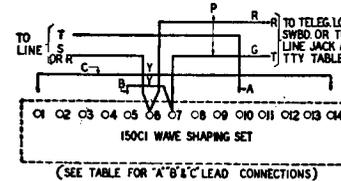


NOTE: PLANS LT104A, LT104B, ETC. ARE LISTED IN THE ORDER OF INCREASING INDUCTANCE FOR BOTH .020 & .060 AMP. LINES.

PLAN	'A' LEAD	'B' LEAD
LT104A	1	2&7
LT104B	2	3&7
LT104C	2	4&7
LT104D	2	5&7
LT104E	1	3&7
LT104F	1	4&7
LT104G	1	5&7



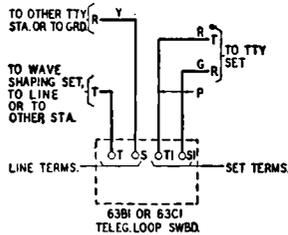
LT1.04 150B1 Wave Shaping Set-TTY Without Spark Killer in Base



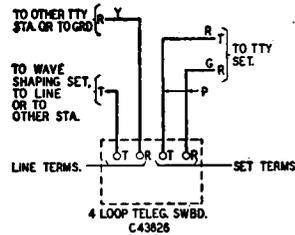
NOTE: PLANS LT105A, LT105B, ETC. ARE LISTED FOR EACH KIND OF LINE IN THE ORDER OF INCREASING INDUCTANCE

020 AMP.	060 AMP.	LINE	'A' LEAD	'B' LEAD	'C' LEAD
LT105A	LT105A	1	4&7	NOT USED	2
LT105B	—	10	3&7	2&12	—
LT105C	LT105C	1	5&7	NOT USED	—
—	LT105B	10	3&7	2&12	—
LT105D	LT105D	10	4&7	2&12	—
LT105E	LT105E	10	5&7	2&12	—
LT105F	LT105F	10	3&7	2&14	—
LT105G	LT105G	10	4&7	2&14	—
LT105H	LT105H	10	5&7	2&14	—
LT105J	LT105J	10	3&7	1&14	—
LT105K	LT105K	10	4&7	1&13	—
LT105L	LT105L	10	4&7	1&14	—
LT105M	LT105M	10	5&7	1&14	—

LT1.01 150A1 Wave Shaping Set-Type "A" Polar-entential Station-CX Oper Wire Line

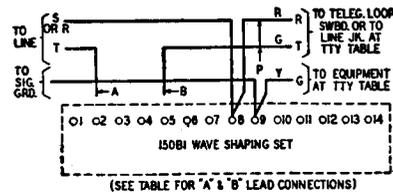


LT1.02 Line and Set Connections to 63B1 or 63C1 Teleg. Loop Swbd.-Polarential Station



LT1.03 Line and Set Connections to 4 Loop Teleg. Swbd.(C43826)-Polarential Station

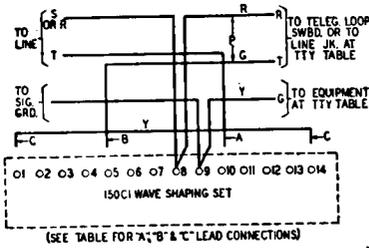
LT1.05 150C1 Wave Shaping Set-TTY Without Spark Killer in Base



PLAN	'A' LEAD	'B' LEAD
LT1.06A	1	2
LT1.06B	2	3
LT1.06C	2	4
LT1.06D	2	5
LT1.06E	1	3
LT1.06F	1	4
LT1.06G	1	5

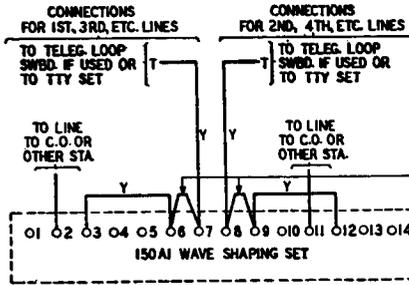
NOTE: PLANS LT106A, LT106B ETC. ARE LISTED IN THE ORDER OF INCREASING INDUCTANCE FOR BOTH .020 & .060 AMP. LINES.

LT1.06 150B1 Wave Shaping Set-TTY With Spark Killer in Base



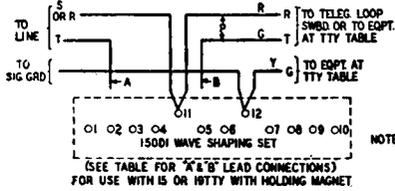
.020AMP LINE	.020AMP LINE	'A' LEAD	'B' LEAD	'C' LEAD
LT1.07A	LT1.07A	1	4	NOT USED
LT1.07B	---	10	3	2 & 12
LT1.07C	LT1.07C	1	5	NOT USED
---	LT1.07B	10	3	2 & 12
LT1.07D	LT1.07D	10	4	2 & 12
LT1.07E	LT1.07E	10	5	2 & 12
LT1.07F	LT1.07F	10	3	2 & 14
LT1.07G	LT1.07G	10	4	2 & 14
LT1.07H	LT1.07H	10	5	2 & 14
LT1.07J	LT1.07J	10	3	1 & 14
LT1.07K	LT1.07K	10	4	1 & 13
LT1.07L	LT1.07L	10	4	1 & 14
LT1.07M	LT1.07M	10	5	1 & 14

NOTE: PLANS LT1.07A, LT1.07B, ETC. ARE LISTED FOR EACH KIND OF LINE IN THE ORDER OF INCREASING INDUCTANCE.



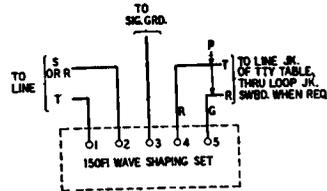
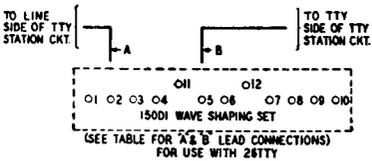
LT1.07 150C1 Wave Shaping Set-TTY With Spark Killer in Base

LT1.10 150A1 Wave Shaping Set-Type "A" Polarential Station-SX or SX-PH Cable Lines



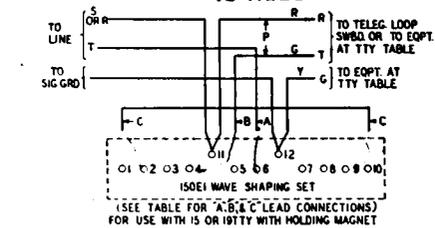
PLAN	'A' LEAD	'B' LEAD
LT1.08A	1	2
LT1.08B	2	3
LT1.08C	2	4
LT1.08D	2	5
LT1.08E	1	3
LT1.08F	1	4
LT1.08G	1	5

NOTE: PLANS LT1.08A, LT1.08B, ETC. ARE LISTED IN THE ORDER OF INCREASING INDUCTANCE FOR BOTH .020 & .060 AMP. LINES.



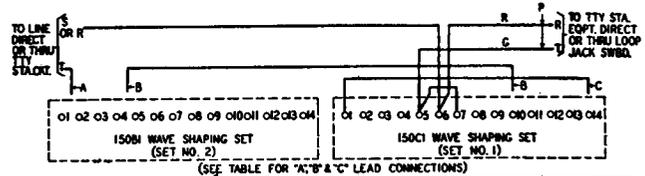
LT1.08 150D1 Wave Shaping Set-TTY With Spark Killer

LT1.11 150F1 Wave Shaping Set



.020AMP LINE	.060AMP LINE	'A' LEAD	'B' LEAD	'C' LEAD
LT1.08A	LT1.08A	1	4	NOT USED
LT1.08B	---	6	3	2 & 8
LT1.08C	LT1.08C	1	5	NOT USED
---	LT1.08B	6	3	2 & 8
LT1.08D	LT1.08D	6	4	2 & 8
LT1.08E	LT1.08E	6	5	2 & 8
LT1.08F	LT1.08F	6	3	2 & 10
LT1.08G	LT1.08G	6	4	2 & 10
LT1.08H	LT1.08H	6	5	2 & 10
LT1.08J	LT1.08J	6	3	1 & 10
LT1.08K	LT1.08K	6	4	1 & 9
LT1.08L	LT1.08L	6	4	1 & 10
LT1.08M	LT1.08M	6	5	1 & 10

NOTE: PLANS LT1.08A, LT1.08B, ETC. ARE LISTED FOR EACH KIND OF LINE IN THE ORDER OF INCREASING INDUCTANCE.

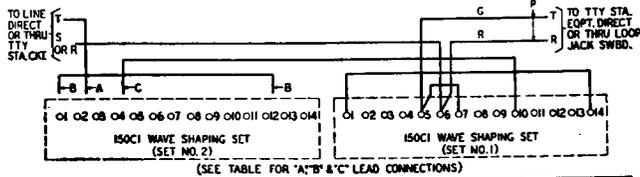


PLAN	'A' LEAD	'B' LEAD	'C' LEAD
LT1.12A	10	---	---
LT1.12B	10	---	---
LT1.12C	---	1	10
LT1.12D	---	2	10
LT1.12E	---	2	10
LT1.12F	---	2	10
LT1.12G	---	1	10
LT1.12H	---	1	10
LT1.12J	---	1	10

NOTE: PLANS LT1.12A, LT1.12B, ETC. ARE LISTED IN THE ORDER OF INCREASING INDUCTANCE FOR BOTH .020 & .060 AMP. LINES.

LT1.09 150E1 Wave Shaping Set-TTY With Spark Killer in Base

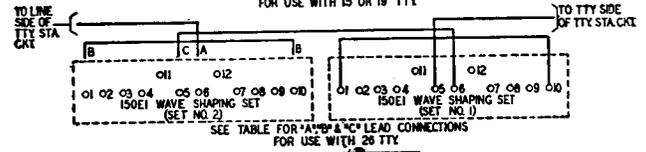
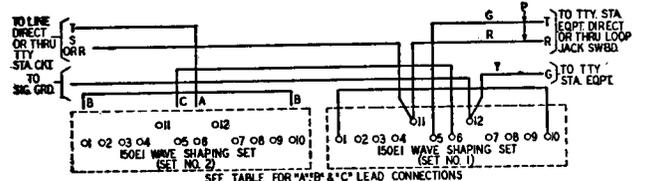
LT1.12 150B1 and 150C1 Wave Shaping Sets-TTY Without Spark Killer in Base



PLAN	'A' LEAD SET NO.1	'B' LEAD SET NO.2	'C' LEAD SET NO.2
LT1.13A	1	—	4
LT1.13B	1	—	5
LT1.13C	10	1 & 11	5
LT1.13D	11	1 & 12	5
LT1.13E	11	1 & 13	5
LT1.13F	11	1 & 14	5
LT1.13G	10	1 & 12	5
LT1.13H	10	1 & 13	5
LT1.13J	10	1 & 14	5

NOTE:
PLANS LT1.13A, LT1.13B, ETC. ARE LISTED
IN THE ORDER OF INCREASING INDUCTANCE
FOR BOTH .020 & .060 AMP. LINES.

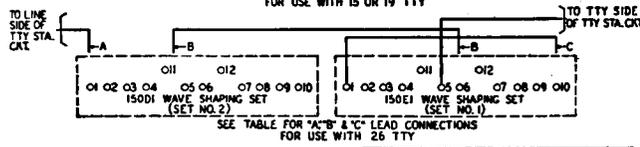
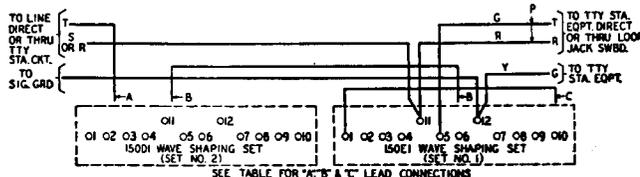
LT1.13 Two 150C1 Wave Shaping Sets in Series-TTY Without Spark Killer in Base



LT PLAN	'A' LEAD SET NO.1	'B' LEAD SET NO.2	'C' LEAD SET NO.2	'D' LEAD SET NO.2
LT1.15A	1	—	4	—
LT1.15B	1	—	5	—
LT1.15C	6	1 & 7	5	—
LT1.15D	7	1 & 8	5	—
LT1.15E	7	1 & 9	5	—
LT1.15F	7	1 & 10	5	—
LT1.15G	6	1 & 8	5	—
LT1.15H	6	1 & 9	5	—
LT1.15J	6	1 & 10	5	—

LT1.15 Two 150E1 Wave Shaping Sets - TTY With Spark Killer in Base

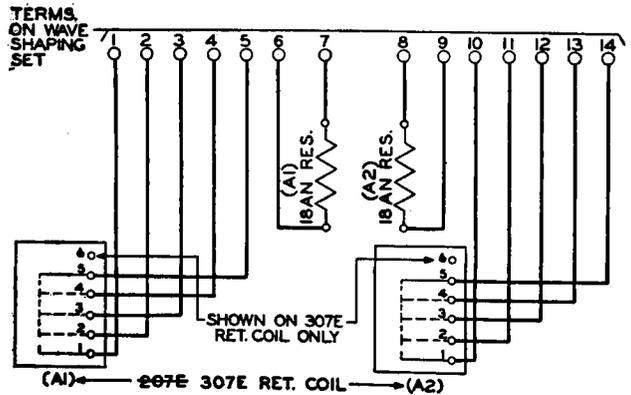
- NOTES:
1. WIRES NOT OTHERWISE SPECIFIED ARE BLACK 22 TYPE 'C'!
 2. LEADS FROM APPARATUS ARE RUN AT RIGHT ANGLES FROM THE APPARATUS TERMINAL TO THE PLANE OF THE CONN. BLK. AND THEN TO THEIR RESPECTIVE CONN. BLK. TERMINALS IN AS SHORT A MANNER AS POSSIBLE.



PLAN	'A' LEAD SET NO.1	'B' LEAD SET NO.1	'C' LEAD SET NO.1	'D' LEAD SET NO.1
LT1.14A	6	—	—	1 & 9
LT1.14B	6	—	—	1 & 10
LT1.14C	—	1	6	2 1 & 10
LT1.14D	—	2	6	3 1 & 10
LT1.14E	—	2	6	4 1 & 10
LT1.14F	—	2	6	5 1 & 10
LT1.14G	—	1	6	3 1 & 10
LT1.14H	—	1	6	4 1 & 10
LT1.14J	—	1	6	5 1 & 10

NOTE:
PLANS LT1.14A, LT1.14B, ETC. ARE LISTED
IN THE ORDER OF INCREASING INDUCTANCE
FOR BOTH .020 & .060 AMP. LINES.

LT1.14 150D1 and 150E1 Wave Shaping Sets - TTY With Spark Killer in Base



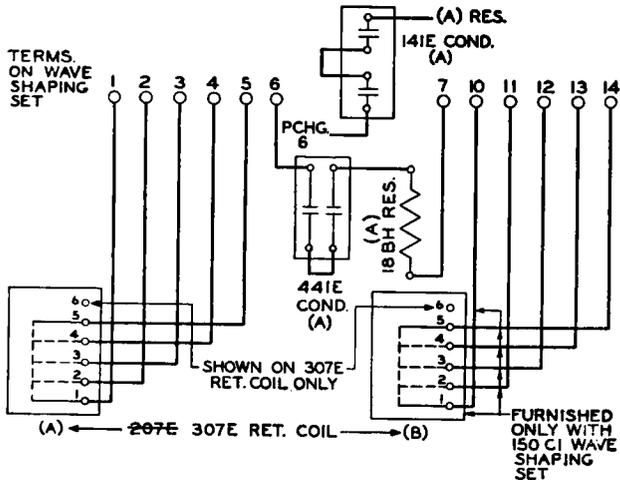
FOR REFERENCE SEE:
SD-70071-01 POLARENTIAL TELETYPEWRITER
STATION CKT.

WIRING OF CIRCUITS
Circuit Label
150A1 Wave Shaping Set

Fig. 1

NOTES:

1. WIRES NOT OTHERWISE SPECIFIED ARE BLACK 22 TYPE "C"
2. LEADS FROM APPARATUS ARE RUN AT RIGHT ANGLES FROM THE APPARATUS TERMINAL TO THE PLANE OF THE CONN. BLK. AND THEN TO THEIR RESPECTIVE CONN. BLK. TERMINALS IN AS SHORT A MANNER AS POSSIBLE.



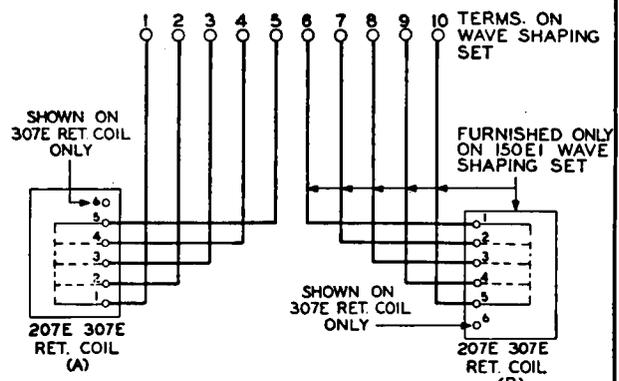
FOR REFERENCE SEE:
SD-70082-01 WAVE SHAPING SET CIRCUIT FOR
TELETYPEWRITER SERVICE.

WIRING OF CIRCUITS
Circuit Label
150B1 and 150C1 Wave Shaping Sets

Fig. 2

NOTES:

1. WIRES NOT OTHERWISE SPECIFIED ARE BLACK 22 TYPE "C"
2. ALL LEADS FROM COILS TO TERMINALS ARE RUN DIRECT AND ARE THE SAME LENGTH WITH THE UNSKINNED PORTION OF THE LEAD MEASURING 3"



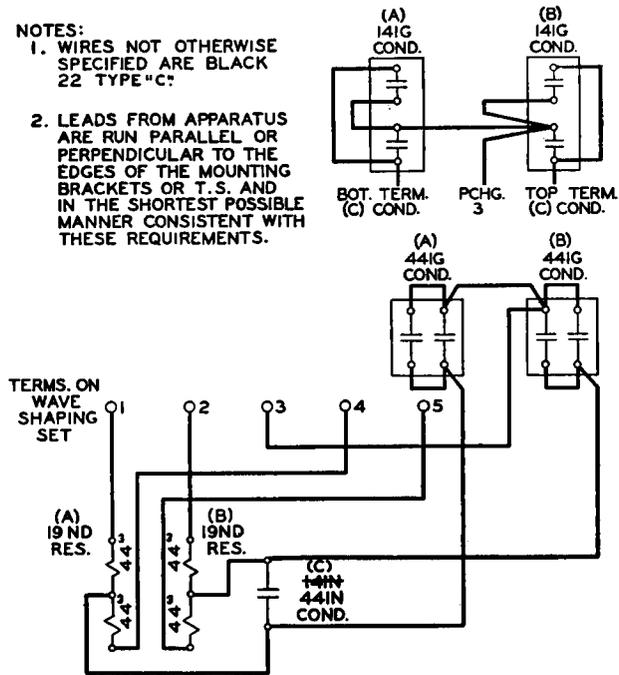
FOR REFERENCE SEE:
SD-70082-01 WAVE SHAPING SET CIRCUIT FOR
TELETYPEWRITER SERVICE.

WIRING OF CIRCUITS
CIRCUIT LABEL
150DI & 150EI WAVE SHAPING SETS

Fig. 3

NOTES:

1. WIRES NOT OTHERWISE SPECIFIED ARE BLACK 22 TYPE "C".
2. LEADS FROM APPARATUS ARE RUN PARALLEL OR PERPENDICULAR TO THE EDGES OF THE MOUNTING BRACKETS OR T.S. AND IN THE SHORTEST POSSIBLE MANNER CONSISTENT WITH THESE REQUIREMENTS.



FOR REFERENCE SEE:
SD-70082-01, WAVE SHAPING SET CIRCUIT FOR
TELETYPEWRITER SERVICE.

WIRING OF CIRCUITS
Circuit Label
150F1 Wave Shaping Set

Fig. 4