Teletype Corporation
Chicago, Illinois, U.S.A.

TELETYPE INSTRUCTION MANUAL NO. 9
Issue 5
June 6, 1945

BARRY CHAPMAN - W4IBI
223 North 38 Street
Paducah, Kentucky

INSTRUCTION MANUAL FOR TELETYPE PERFORATOR SET

Contents

Printed in U.S.A.

PHOTO 411018 - 39

BARRY CHAPMAN - W4IBI
223 North 38 Street
Paducah, Kentucky

TELETYPE MODEL 14 PERFORATOR SET

Teletype Corporation
Chicago, Illinois, U.S.A.

Specification S-5379
Issue 1
May, 1942

GENERAL DESCRIPTION
TELETYPE MODEL 14
PERFORATOR SET

The Teletype perforator set consists of a Model 14 keyboard tape perforator complete with table, including electrical receptacles wired for convenient connection to the power source. A rectifier is mounted on the table shelf at alternating current stations to supply direct current for operation of the perforator.

The perforator keyboard may be arranged for use on ordinary message communication circuits or on weather report circuits; and is equipped with a repeat mechanism which provides means for rapidly spacing out tape perforated with any code combination on the keyboard by merely actuating the particular key lever and the repeat key. An end-of-line warning lamp lights when the number of characters perforated in a given line approaches the number which will print on a Teletype page printer.

REC-11 rectifiers are used on 110 volt 50 or 60 cycle power supplies and REC-19 rectifier on 110 volt 25 cycle installations.

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Teletype Corporation
Chicago, Illinois, U.S.A.

Specification S-5535
Issue 1, Page 1
December, 1945

INSTRUCTIONS FOR INSTALLING AND ADJUSTING THE 98157 SET OF TAPE STOP PUNCH PARTS ON MODEL 14 TAPE PERFORATOR

The 98157 set of parts provides mechanism for perforating the edge of the tape to permit actuation of the tape stop mechanism on a transmitter distributor, without ending the tape.

The 98157 set of parts consists of the following:

2	33-193	Screw
1	1164	Screw
2	2191	Lock Washer
1	2653	Spring
2	8330	Washer
1	76768	Thumb Nut
1	93118	Lock Washer
1	97935	Tape Stop Punch Block
1	97936	Punch
1	97937	Tape Guide Spring
4	97939	Shim

For part numbers referred to in the following text but not included in the above list, refer to the perforator parts bulletin.

INSTALLATION

Remove and discard the 2410 tape guide spring. Remove the chad chute and the punch block. Retain these parts as they are to be reinstalled on the machine after the base casting has been worked over.

Work over the base casting as shown on Figure 1 to add two 6-32 tapped holes and one 1/2" hole using a 97938 template for locating the holes. Care should be taken when adding these holes so that the parts in the immediate vicinity on the under side of the machine are not damaged.

Reinstall the punch block and chad chute previously removed.

Install the tape stop punch parts (furnished) as shown on Figure 2.

ADJUSTMENTS

(1) Adjust the height of the tape stop punch block by means of shims, so that the tape guide spring is depressed approximately 1/16" when a piece of tape is in place in both the tape stop punch block and the code punch block.

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(2) Position the tape stop punch block toward the front or rear, by means of its enlarged mounting holes, so that the rear wall of the slot in the tape stop punch block lines up with the center of the tape slot in the code punch block.

(3) Thread a piece of tape through both of the punch blocks and operate the BLANK keylever until the tape feeds normally. Then perform the following operations in the order indicated:

Manually operate the notching punch.
Operate the LETTERS keylever.
Operate the BLANK keylever four times.
Operate the LETTERS keylever twice.

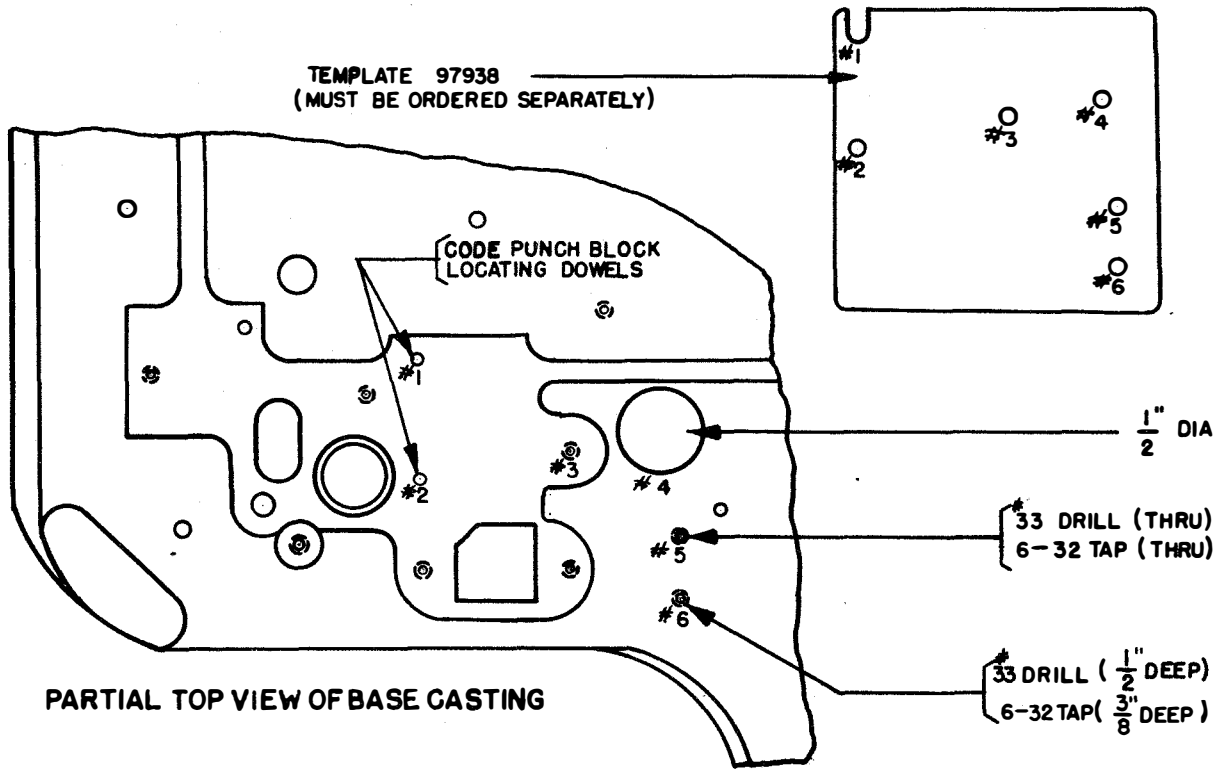
(a) Operate the BLANK keylever sufficiently to feed out the tape previously perforated and check it as follows:

(b) The center of the notch in the lower edge of the tape shall be between the centers of the two adjacent LETTERS combinations. Position the tape stop punch block to right or left on its enlarged mounting holes. Recheck adjustment (2).

(c) The notch in the lower edge of the tape shall be sufficiently wide to completely obliterate the fifth pulse code holes in the two adjacent LETTERS combinations. This requirement is controlled by the shims referred to in adjustment (1).

(4) Repeat the above check (paragraph 3) at least five times.

* * *



(A) PLACE THE TEMPLATE OVER THE CODE PUNCH BLOCK LOCATING DOWELS INDICATED AS NO.1 AND 2.

(B) MOUNT THE TEMPLATE USING ONE OF THE CODE PUNCH BLOCK MOUNTING SCREWS AND HOLE NO.3.

(C) DRILL HOLE NO. 4 USING DRILL NO.24 (.152). DRILL THRU CASTING.

(D) DRILL HOLES NO.5 AND 6 USING DRILL NO. 33 (.113). DRILL HOLE NO.5 THRU THE CASTING AND HOLE NO. 6 $\frac{1}{2}$" DEEP.

(E) REMOVE THE TEMPLATE AND ENLARGE HOLE NO.4 TO $\frac{1}{2}$" AND TAP HOLES NO.5 AND 6 USING A 6-32 TAP

FIGURE 1

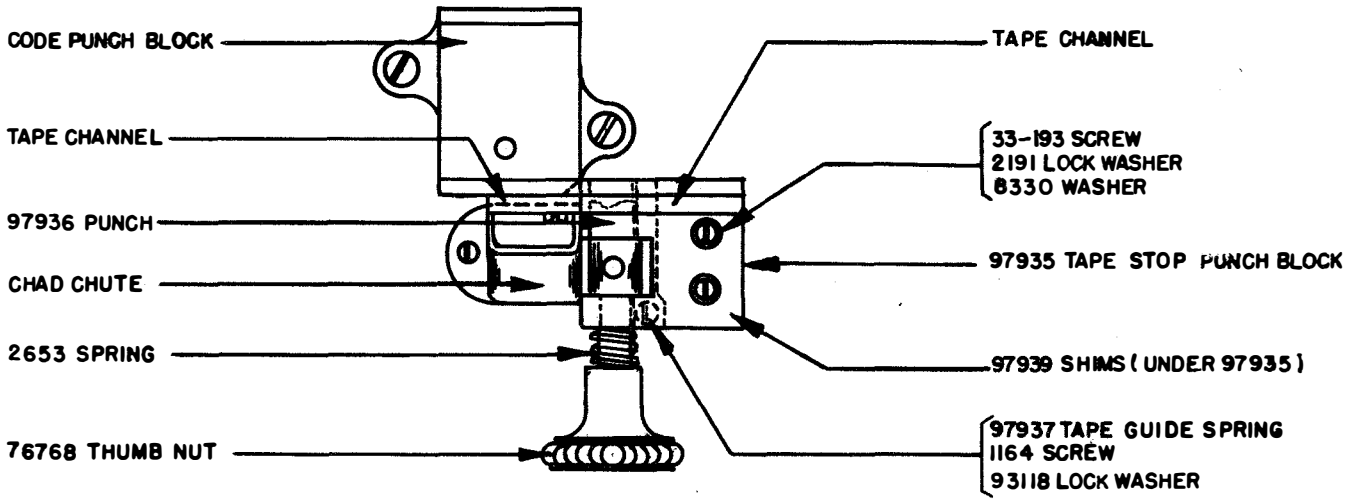


FIGURE 2

CHANGES IN BULLETIN 167, ISSUE 1, MARCH, 1941
ADJUSTMENTS OF TAPE PERFORATOR (FIVE-UNIT)

The changes outlined in this correction sheet apply only to perforators equipped with an adjustable end-of-line indicating mechanism, as indicated by the two asterisks preceding the title of the adjustment.

Page 5

Add the following adjustment after - **Release Rod Holding Pawl Spring Tension:

**Stop Screw Bracket Yield Spring Tension

Unhook the stop screw bracket yield spring from its bracket. Hook a 32-oz. scale in the spring eye and pull up vertically. It should require from 15 to 19 ozs. to extend the spring to 1-5/8 in. The end of the scale used to measure the length just mentioned should rest against the top of the formed section of the stop screw bracket. Rehook the spring.

Page 6

Substitute the following in place of - **Release Rod Holding Pawl Stop Screw Adjustment (Figure 9) :

**Release Rod Holding Pawl Stop Screw and Bracket Adjustment

There should be from .065" to .080" clearance between the engaging peak of the release rod holding pawl and the release rod when the pawl is held against its stop screw and the stop screw is held against its post.

To adjust, loosen the stop screw bracket mounting screws, loosen the stop screw lock nut, and adjust the screw to meet the foregoing requirement. Check to see that after the stop screw lock nut is tightened, a flat on the stop screw will bear against the stop post. Also, check to see that the spring washer assembled on the stop screw bracket mounting screw nearest the stop is around its bushing. This may be determined by moving the stop screw bracket after its mounting screws have been carefully tightened. The bracket should be free to move with an appreciable amount of friction.

Hold the stop screw bracket as far as it will go away from the stop post, position the contact screw bracket so that the contact screw is in alignment with the contact on the contact operating lever, and tighten the stop screw bracket mounting screws. Recheck the clearance between the engaging peak of the release rod holding pawl and the release rod.

Page 10

Substitute the following in place of - **Indicator Gear Stop Plate Adjustment (Figure 6):

**Indicator Gear Stop Plate Adjustment - See Note (A)

The adjustable plate on the indicator gear provides for varying the

starting position of the gear so that the lamp contact will be closed on the 64th to 70th character perforated. When it is desired to close the contacts on the 70th character, move the plate in a counterclockwise direction, and when it is desired to close the lamp contacts on the 64th character, move the plate in a clockwise direction.

Adjust as follows: With the idler pinion fully in mesh with the tape feed roll pinion, position the stop plate so that the 7th tooth, for 65 characters, or 12th tooth, for 70 characters, etc., on the indicator gear is fully in mesh with the idler pinion. With the stop screw bracket held against its stop post, and with the release rod holding pawl held against the stop screw, move the stop plate toward the release rod holding pawl so that there is from .010" to .025" clearance between the formed projection on the stop plate and the pawl.

With power on the perforator, fully depress and slowly release the carriage return key lever. Operate a key lever, other than the carriage return key lever, the desired number of times to see that the lamp lights on the proper character.

Note: If readjustment of the stop plate is necessary, remove power from the perforator.

After the correct position of the stop plate has been determined, carefully move the plate as far as it will go toward the center of the gear and securely tighten the adjustable plate clamping screws. Recheck this adjustment several times, with power on the perforator, normally operating the carriage return key lever.

Teletype Corporation
Chicago, Illinois, U.S.A.

EE-561
Issue 1
December, 1946

CHANGES IN BULLETIN 167, ISSUE 1
DESCRIPTION AND ADJUSTMENTS
TAPE PERFORATOR
(5 UNIT)

Page 11

PUNCH MAGNET YOKE CONTACT SPRING ADJUSTMENT (Figure 18)

Change the clearance requirement in Paragraph (b) to read .020" to .030" instead of .015" to .020."

REPEAT RELAY ADJUSTMENTS (Figure 19)

Change the clearance requirement in Paragraph (b) to read .015" to .018" instead of .012" to .015."

Change the spring tension requirement in Paragraph (c) to read "2-1/4 to 3 ozs." instead of "1-1/2 to 1-3/4 ozs."

Change the spring tension requirement in Paragraph (d) to read "1-3/4 to 2 ozs." instead of "1 to 1-1/2 ozs."

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Teletype Corporation
Chicago, Illinois, U.S.A.

EE-645
Issue 1
September, 1948

CHANGES IN BULLETINS 108, ISSUE 2, and 167, ISSUE 1 DESCRIPTION AND ADJUSTMENTS OF THE FIVE UNIT TAPE PERFORATOR

In order to prevent disengagement of the loops from the bell cranks during shipment, the 122-25 loop bearing (left) has been provided with a tapped hole and fitted with a 1035 adjusting screw and a 34-9 nut. This screw may be adjusted to hold the loops toward the right and prevent their disengagement from the bell cranks. The following adjustment applies to perforators so equipped:

BULLETIN 108, PAGE 5 - immediately preceding the LOOP SPRING TENSION (Figure 6)
BULLETIN 167, PAGE 4 - immediately preceding the LOOP SPRING ADJUSTMENT (Figure 7)

Add the following adjustment:

LOOP ADJUSTING SCREW ADJUSTMENT

There should be some clearance, not more than .015", between the outer surface of the power loop and the end of the adjusting screw at the bell crank end. To adjust, turn the adjusting screw to meet the requirement and position the lock nut.

NOTE

When making this adjustment a moderate force should be applied to the loops in the direction to make this clearance a maximum. Avoid bending or forcing the loops which may result in a false adjustment.

* * *

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Teletype Corporation
Chicago, Illinois, U.S.A.

EE-587
Issue 1
January, 1948

CHANGES AND ADDITIONS TO BULLETIN 108 (ISSUE 2) DESCRIPTION AND ADJUSTMENTS OF THE FIVE UNIT TAPE PERFORATOR AND BULLETIN 167 (ISSUE 1) DESCRIPTION AND ADJUSTMENTS TAPE PERFORATOR (FIVE UNIT)

PAGE 5, Bulletin 108
PAGE 5, Bulletin 167

LOOP STOP SHIMS ADJUSTMENT

Add the following to the first sentence in this adjustment:

"-------- except in the case of the power loop."

PAGE 9, Bulletin 108
PAGE 7, Bulletin 167

PUNCH MAGNET CONTACT SCREW ADJUSTMENT

Add the following additional requirement to this adjustment:

"When the LETTERS keylever is fully depressed, there should be at least .002" clearance between the power loop and the loop stop."

* * *

Teletype Corporation
Chicago, Illinois, U.S.A.

716EE
Issue 1
December, 1950

CHANGES IN ADJUSTMENT BULLETINS

164, Issue 1 - Tape Perforator, Page 5
147, Issue 2 - Nontyping Reperforator, Page 11
148, Issue 2 - Perforator Transmitter, Page 16
165, Issue 3 - Typing Reperforator, Page 2-14
166, Issue 2 - Perforator Transmitter, Page 18
171, Issue 2 - Typing Reperforator, Page 14
178, Issue 1 - Reperforator Transmitter Distributor, Page 25
193, Issue 1 - Reperforator Transmitter Distributor, Page 22
203, Issue 1 - Reperforator Transmitter Distributor, Page 2-15
167, Issue 1 - Tape Perforator, Page 6

Bulletins 178, 193, and 203 - PREPUNCH TAPE TENSION LEVER STUD ADJUSTMENT
Bulletins 147, 148, 165, 166, and 171 - TAPE TENSION LEVER STUD ADJUSTMENT

Change these adjustments to read as follows:

The tape tension lever stud should be centrally located with respect to the feed roll pins. This requirement should be measured as follows:

(a) Take up the feed roll end play towards the star wheel and the tension lever end play towards its adjusting nut. The edge of the lever slot may touch the feed roll pins on the side of the pins nearest the ratchet but there must be clearance on the other side.

(b) Take up the feed roll end play away from the star wheel and the tension lever end play away from the tension adjusting nut. The edge of the lever slot may touch the feed roll pins on the side farthest away from the ratchet but there must be clearance on the other side.

To adjust, add or remove shims between the shoulder on the tape tension lever stud and its mounting bracket.

Bulletins 164 and 167 - TAPE TENSION LEVER STUD ADJUSTMENT

Insert the above adjustment immediately before the TAPE TENSION LEVER SPRING TENSION ADJUSTMENT.

* * *

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CHANGES IN LUBRICATION SPECIFICATIONS WHICH APPLY TO ALL TELETYPE APPARATUS

The following lubricants have been standardized for use on all types of Teletype apparatus. These lubricants supersede those referred to in preceding Teletype specifications. The lubricants can be ordered from Teletype as follows:

88970	1QT. of KS-7470 Oil
88971	1 Gal. of KS-7470 Oil
88973	1 Lb. of KS-7471 Grease
*88975	KS-8319 Grease Gun
97116	4-oz. Tube of KS-7471 Grease

The above grease is recommended instead of oil for lubricating motors equipped with ball bearing. The 88975 grease gun should be used for injecting grease into the bearings of Teletype ball bearing motors. The gun may be used also for applying grease to other parts of the apparatus and no other grease container need be carried. If this grease gun is not available, the oil listed in the foregoing should be substituted for lubricating ball bearing motors.

* Instructions for Filling the Grease Gun

1. Unscrew the lubricant tube from the cap casting of the grease gun.

2. Insert fresh lubricant through the open end of the tube with the fingers. Apply gradually to eliminate air pockets.

3. Tamp the lubricant down solidly in the tube by pounding the closed end solidly against the palm of the hand. Continue to add lubricant until the tube is completely filled and the metal follower rests against the perforated tube cover.

4. Fill the cap casting with lubricant flush to the bottom side of the tube threads.

5. Screw the lubricant tube into the cap casting part way only. Then insert a pencil or rod through the perforated tube cover and exert pressure against the metal follower so as to expel any entrapped air past the tube threads. When lubricant begins to ooze through the threads, tighten the lubricant tube securely in the cap casting.

6. Operate the handle back and forth for several strokes or until lubricant is pumped from the nozzle. The gun is then ready for use. If the lubricant does not flow from the nozzle in a solid stream, it is an indication that all air has not been expelled from the lubricant tube. Invert the gun and pound the cap casting end against the palm of the hand to jar the lubricant into the pump cylinder.

* Instructions for Lubricating Motor Ball Bearings

The motor bearings are packed with grease before the motor leaves the factory and under ordinary operating conditions need no additional lubrication for

approximately two months. At the regular lubricating intervals one or two strokes of the plunger of the gun should apply sufficient grease to each bearing. To lubricate, press the nozzle of the gun against the ball oiler and force the grease into the hole by pushing on the plunger of the gun. Care should be taken that the bearings are not overloaded. Overloading will result in the grease oozing out of the end castings and being forced into the motor or being thrown on other parts of the mechanism. After lubricating, the motor should be run for a few minutes and then any excess grease that has been forced out of the ends of the castings should be wiped off. Each time that the gun is used for lubricating a motor bearing, the plunger should first be depressed slightly to make sure that grease will be delivered.

Teletype Corporation
Chicago, Illinois, U.S.A.

CHANGES IN TELETYPE PART AND ASSEMBLY NUMBERS

In order to facilitate the use of automatic business machines in the conduct of its business, Teletype Corporation finds it necessary to eliminate all of its present part and assembly numbers containing dashes and/or letter prefixes. Such numbers have been replaced by others having 3 to 6 digits which may have a one-letter or a two-letter suffix.

The prefixes used with magnet, packing material, raw material such as wire in bulk, Teletype literature and wiring diagram numbers have been changed to suffixes, and in the case of bulletins and instruction manuals a suffix has been added to identify the items without reference to descriptions as shown in the following illustrations:

Old Designation	New Designation	Description
M121	121M	Magnet
PK10718	10718PK	Carton
RM31571	31571RM	Wire
121	121B	Bulletin
EE121	121EE	Correction Sheet
121	121MA	Instruction Manual
WD2186	2186WD	Wiring Diagram
S5037	5037S	Specification
S5333A	5333SA	Specification
S5333B	5333SB	Specification

All Teletype parts bulletins and price lists will eventually be changed to show the new as well as the old numbers for the convenience of Teletype Corporation customers.

*When an item is ordered under an old number, the new number will be substituted for the old one and the old number will be shown immediately after the description of the items on all shipping papers and invoices.

Attached are two conversion lists of the active numbers involved; one with the old numbers and descriptions arranged numberically and the other with the new numbers arranged numerically. It is to be noted that some of the new numbers have already been used in Teletype parts catalogs.

**Many numbers containing dashes cover parts considered obsolete and are not included in the attached lists. Occasionally one of these parts is reinstated, in which case the part will be shipped under the new number with the dash number shown immediately after the description. It is not intended to add such numbers to the correction sheet lists unless the part is to be commonly used.

*Indicates change
**Indicates addition

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OLD TO NEW NUMBER CONVERSION LIST

Old No.	New No.	Description
4-8	74879	Stud
23-8	125105	Terminal
33-1	1157	Screw
33-2	125108	Screw
33-3	1158	Screw
33-4	1263	Screw
33-5	1159	Screw
33-6	1160	Screw
33-7	1161	Screw
33-8	125109	Screw
33-9	125110	Screw
33-10	1162	Screw
33-11	1163	Screw
33-12	125111	Screw
33-13	5740	Screw
33-14	1164	Screw
33-15	125112	Screw
33-16	1165	Screw
33-17	1166	Screw
33-18	125113	Screw
33-21	112620	Screw
33-22	125114	Screw
33-29	125116	Screw
33-32	125117	Screw
33-35	1168	Screw
33-37	1169	Screw
33-38	125119	Screw
33-39	1222	Screw
33-41	125120	Screw
33-43	125122	Screw
33-49	1170	Screw
33-50	125124	Screw
33-53	1171	Screw
33-54	1172	Screw
33-57	125126	Screw
33-58	125127	Screw
33-63	125130	Screw
33-64	1173	Screw
33-65	125131	Screw
33-69	1223	Screw
33-70	125132	Screw
33-85	125138	Screw
33-86	125139	Screw
33-89	125141	Screw
33-98	125142	Screw
33-101	125143	Screw
33-110	110434	Screw
33-111	49054	Screw
33-114	125146	Screw
33-130	125149	Screw
33-132	125001	Screw
33-153	125154	Screw
33-156	1162	Screw
33-157	1174	Screw
33-158	125155	Screw
33-163	125157	Screw
33-168	125159	Screw
33-170	112621	Screw
33-179	125002	Screw
33-180	125162	Screw
33-185	125163	Screw
33-193	125164	Screw
33-194	125165	Screw
33-195	1176	Screw
33-197	125167	Screw
33-198	125168	Screw
33-206	125003	Screw
33-207	125170	Screw
33-208	125171	Screw
33-213	125176	Screw
33-224	125178	Screw
33-225	125179	Screw
33-227	125180	Screw
33-234	1177	Screw
33-238	1179	Screw
33-240	86850	Screw
33-252	125189	Screw
33-253	125190	Screw
33-254	125191	Screw
33-255	125192	Screw
33-257	125193	Screw
33-270	87636	Screw
33-271	125195	Screw
33-276	125197	Screw
33-278	125199	Screw
33-280	125005	Screw
33-282	125200	Screw
33-283	125201	Screw
33-296	125205	Screw
33-333	125006	Screw
33-334	112622	Screw
33-335	112623	Screw
33-336	125206	Screw
33-337	112624	Screw
33-341	125209	Screw
33-344	125211	Screw
33-346	125212	Screw
33-348	125213	Screw
33-350	125215	Screw
33-360	1181	Screw
33-362	125217	Screw
34-1	125218	Nut
34-2	3595	Nut
34-4	112626	Nut
34-5	5475	Nut
34-6	3597	Nut
34-7	70073	Nut
34-8	3598	Nut
34-9	3599	Nut
34-10	125220	Nut
34-11	112627	Nut
*34-12	55257	Nut
34-13	125221	Nut
34-14	5815	Nut
34-16	125222	Nut
34-19	125223	Nut
34-24	125224	Nut
34-25	3600	Nut
34-27	125225	Nut
34-28	3602	Nut
34-29	3603	Nut
34-39	125227	Nut
34-41	125228	Nut
34-48	125229	Nut
34-50	3604	Nut
*34-51	1036	Nut
34-55	3606	Nut
34-56	110435	Nut
34-58	125231	Nut
34-59	125009	Nut
34-61	125233	Nut
34-64	112628	Nut
34-66	125235	Nut
35-1	112629	Spring
35-2	112630	Spring
35-8	112631	Spring
35-13	125236	Spring
35-24	125239	Spring
35-27	125241	Spring
35-28	125242	Spring
35-33	112632	Spring
35-34	125243	Spring
35-40	125244	Spring
35-42	110436	Spring
35-47	125246	Spring
35-52	4702	Spring
35-53	125248	Spring
35-54	112633	Spring
35-58	3608	Spring
35-68	125250	Spring
35-69	125251	Spring
35-70	110437	Spring
35-71	125252	Spring
35-72	125253	Spring
35-78	125254	Spring
35-80	125255	Spring
35-85	125257	Spring
35-86	4703	Spring
35-87	4708	Spring
35-88	110438	Spring
35-89	112634	Spring
35-99	125258	Spring
35-116	125262	Spring
35-126	3610	Spring
35-132	125267	Spring
35-133	125268	Spring
35-134	4705	Spring
35-137	112635	Spring
*35-140	112636	Spring
36-24	125272	Pin
36-28	125273	Pin
36-39	125276	Pin
36-45	125277	Pin
36-51	125278	Pin
36-56	3614	Pin
36-73	125280	Pin
36-80	125281	Pin
36-110	125288	Pin
36-114	125290	Pin
36-120	125269	Pin
*36-131	125092	Dowel
36-132	125292	Pin
36-137	3614	Pin
36-147	125296	Pin
36-150	125297	Pin
36-153	110440	Pin
36-164	125300	Pin
43-10	125306	Stop
*43-12	71047	Washer
46-3	125307	Washer
61-7	3618	Insulator
61-10	125314	Screw
61-24	125010	Washer
61-25	125317	Insulator
100-74	5816	Washer
100-75	3620	Washer
100-80	125328	Bushing
100-84	125330	Screw
100-85	3621	Terminal
100-96	110441	Shim
100-108	3624	Washer
100-112	125339	Terminal
100-120	125341	Bushing
103-27	125011	Washer
112-7	125373	Screw
122-5	125379	Post
122-11	125380	Chute
122-12	125381	Stud
122-18	125382	Cable
S-122-19	125383	Bracket
S-122-20	125384	Bracket
S-122-21	125385	Bracket

*Indicates change

Old No.	New No.	Description
S-122-22	125386	Bracket
S-122-23	125387	Bracket
S-122-24	125388	Bracket
122-25	125389	Bracket
122-26	125390	Washer
122-27	125391	Shaft
122-28	125392	Stop
122-29	125393	Pin
122-35	125394	Plate
122-36	125395	Pin
S-122-37	125396	Guide
S-122-38	125397	Bar
S-122-39	3625	Shaft
S-122-40	125398	Bracket
122-42	125400	Gear
122-43	125401	Gear
122-46	125402	Post
122-48	125012	Socket
122-49	125403	Fitting
122-50	125404	Lamp
122-51	125405	Bell Crank
122-52	125406	Bell Crank
122-53	125407	Bell Crank
122-54	125408	Bell Crank
122-55	125409	Bell Crank
122-56	125410	Bushing
122-57	125411	Bushing
122-58	125412	Stud
122-60	125413	Ratchet
122-61	125414	Post
122-62	125415	Pin
122-63	125416	Post
122-65	125417	Stud
122-67	125418	Post
122-68	3626	Foot
S-122-69	125419	Stop
122-84	125421	Pin
122-86	125422	Pin
122-88	125423	Solenoid Assem.
122-89	125424	Bracket
122-94	125425	Terminal Brd.
122-95	125426	Insulator
122-97	125427	Bushing
122-100	125428	Plate
122-101	125429	Head
122-102	125430	Post
122-106	125431	Bracket Assem.
122-107	125433	Bracket
122-108	125434	Bushing
122-113	9575	Screw
122-116	125438	Lever Assem.
122-117	125439	Lever
122-118	125440	Terminal
122-119	125441	Contact Assem.
122-121	125443	Contact
122-124	125444	Spring
122-126	125445	Insulator
122-127	125446	Stud
122-128	125447	Bracket Assem.
122-129	125448	Bracket
S-122-130	125449	Lever Assem.
122-133	125450	Post
S-122-134	125451	Bell Crank
122-135	125452	Washer
S-122-136	125453	Bracket
122-137	125454	Gear Assem.
122-140	125456	Stud
122-143	125457	Connector
122-146	125458	Bearing
122-147	125459	Bushing
122-194	125463	Disk
122-195	125464	Disk
122-196	125465	Bezel
S-122-234	3627	Bar
122-242	125467	Lever Assem.
122-244	125468	Post
122-245	125469	Pawl
122-246	125470	Post
122-247	125471	Disk Assem.
122-249	125472	Stud
122-259	125479	Disk
122-275	125481	Bracket
122-276	125013	Plate
122-350	125487	Tape Reel
122-357	125488	Spacer
122-359	125490	Ratchet
122-364	125492	Bracket
122-365	125493	Punch Pin
122-366	125494	Punch Pin
122-369	125495	Guide Plate
122-374	125499	Punch Bar
122-375	125500	Punch Bar
122-376	125501	Punch Bar
122-377	125502	Punch Bar
122-378	125503	Punch Bar
122-380	125504	Lever
122-381	125505	Contact
122-382	125506	Bail
122-383	125507	Key Lever
122-384	112640	Die Block
122-386	125508	Bail Assem.
122-389	125511	Pawl Assem.
122-390	125512	Contact Assem.
122-396	125514	Hammer Assem.
122-431	125548	Paper Keytop
122-432	125549	Paper Keytop
122-433	125550	Paper Keytop
122-434	125551	Paper Keytop
122-435	125552	Paper Keytop
122-438	125555	Head
122-451	125560	Lever Assem.
122-452	125561	Lever Assem.
122-453	125562	Cable Assem.
122-454	125563	Cable
122-459	125565	Paper Keytop
122-460	125566	Paper Keytop
122-461	125567	Paper Keytop
122-462	125568	Paper Keytop
122-463	125569	Paper Keytop
122-464	125570	Paper Keytop
122-465	125571	Paper Keytop
122-466	125572	Paper Keytop
122-467	125573	Paper Keytop
122-468	125574	Paper Keytop
122-469	125575	Paper Keytop
122-470	125576	Paper Keytop
122-471	125577	Paper Keytop
122-472	125578	Paper Keytop
122-473	125579	Paper Keytop
122-474	125580	Paper Keytop
122-475	125581	Paper Keytop
122-476	125582	Paper Keytop
122-477	125583	Paper Keytop
122-478	125584	Paper Keytop
122-479	125585	Paper Keytop
122-480	125586	Paper Keytop
122-481	125587	Paper Keytop
122-482	125588	Paper Keytop
122-483	125589	Paper Keytop
122-484	125590	Paper Keytop
122-511	125594	Guide Assem.
122-528	125596	Key Lever Assem.
122-529	125597	Key Lever Assem.
122-530	125598	Key Lever Assem.
122-531	125599	Key Lever Assem.
122-532	125600	Key Lever Assem.
122-533	125601	Key Lever Assem.
122-534	125602	Key Lever Assem.
122-535	125603	Key Lever Assem.
122-536	125604	Key Lever Assem.
122-537	125605	Key Lever Assem.
122-538	125606	Key Lever Assem.
122-539	125607	Key Lever Assem.
122-540	125608	Key Lever Assem.
122-541	125609	Key Lever Assem.
122-542	125610	Key Lever Assem.
122-543	125611	Key Lever Assem.
122-544	125612	Key Lever Assem.
122-545	125613	Key Lever Assem.
122-546	125614	Key Lever Assem.
122-547	125615	Key Lever Assem.
122-548	125616	Key Lever Assem.
122-549	125617	Key Lever Assem.
122-550	125618	Key Lever Assem.
122-551	125619	Key Lever Assem.
122-552	125620	Key Lever Assem.
122-553	125621	Key Lever Assem.
122-554	125622	Key Lever Assem.
122-555	125623	Key Lever Assem.
122-556	125624	Key Lever Assem.
122-557	125198	Key Lever Assem.
122-558	125625	Key Lever Assem.
122-559	125626	Key Lever Assem.
122-567	125631	Hammer Assem.
122-571	125633	Guide Plate
122-575	111019	Block
122-576	125636	Plate Assem.
122-577	125637	Ratchet Assem.
122-580	125638	Paper Keytop
122-581	125639	Paper Keytop
122-582	125640	Paper Keytop
122-586	125642	Bracket Assem.
122-589	125643	Washer
122-592	125645	Guide
122-593	125646	Plate
122-594	125647	Plate
122-596	125648	Key Lever
122-597	125649	Key Lever
122-598	125650	Key Lever
122-599	125651	Key Lever
122-600	125652	Key Lever
122-601	125653	Key Lever
122-602	125654	Key Lever
122-603	125655	Key Lever
122-604	125656	Key Lever
122-605	125657	Key Lever
122-606	125658	Key Lever
122-607	125659	Key Lever
122-608	125660	Key Lever
122-609	125661	Key Lever
122-610	125662	Key Lever
122-611	125663	Key Lever
122-612	125664	Key Lever
122-613	125665	Key Lever
122-614	125666	Key Lever
122-615	125667	Key Lever
122-616	125668	Key Lever
122-617	125669	Key Lever
122-618	125670	Key Lever
122-619	125671	Key Lever

Old No.	New No.	Description
122-620	125672	Key Lever
122-621	125673	Key Lever
122-622	125674	Key Lever
122-623	125675	Key Lever
122-624	125676	Key Lever
122-625	125677	Key Lever
122-626	125678	Key Lever
122-697	125683	Bushing
122-698	125684	Lever Assem.
122-699	125685	Stud
122-700	125686	Lever Assem.
122-702	125687	Bushing
122-703	125688	Bracket Assem.
122-704	125689	Paper Keytop
122-705	125690	Paper Keytop
122-706	125691	Paper Keytop
122-707	125692	Paper Keytop
122-708	125693	Paper Keytop
122-709	125694	Paper Keytop
122-710	125695	Paper Keytop
123-7	3628	Bushing
123-8	71444	Bushing
123-36	3630	Bushing
123-37	125696	Post
123-164	3633	Bushing
123-165	3634	Bushing
123-166	3635	Washer
123-167	3636	Washer
123-244	125015	Washer
123-308	125703	Terminal
125-9	3638	Condenser
125-176	125716	Switch Box
125-197	125097	Nipple
125-198	125098	Nut
125-208	125719	Nipple
125-209	125720	Nut
125-237	125723	Fuse
125-238	125724	Fuse
126-123	125016	Grommet
138-22	110442	Screw Driver
138-23	125752	Wrench
138-25	125754	Wrench
138-26	125755	Wrench
138-27	125756	Wrench
138-28	125757	Wrench
138-30	125758	File
138-33	125760	Wrench
138-34	125761	Wrench
138-36	125763	Wrench
138-43	126242	Gauge
138-44	126243	Gauge
138-55	110443	Scale
138-58	110444	Scale
138-100	88993	Burnisher
138-125	126245	Gauge
138-126	126246	Gauge
138-127	125775	Wrench
138-128	125776	Wrench
138-129	125777	Wrench
138-137	110445	Tool
138-139	125783	Stone
200-20	3639	Washer
200-153	3640	Washer
200-214	125789	Shim
200-1032	3646	Washer
200-1134	125793	Pin
200-1139	3647	Insulator
200-1177	126251	Insulator
200-1348	125802	Washer
200-2212	3649	Washer
300-106	125814	Guide
300-107	125815	Contact Assem.
300-108	125816	Mounting Bar
300-109	125817	Mounting Bar
300-110	125818	Insulator
300-113	125820	Disk
300-121	125828	Shaft
300-128	125829	Lever
300-137	125833	Lever Guide
300-152	125844	Adj. Lever
300-170	125848	Cont. Lever
300-171	125849	Cont. Lever
300-172	125850	Cont. Lever
300-173	125851	Cont. Lever
300-174	125852	Cont. Lever
300-178	125855	Terminal
300-179	125856	Terminal Block
300-181	125858	Feed Pawl
300-201	125860	End Bracket
300-301	5556	Top Plate
300-302	125861	Feed Wheel
*300-303	125862	Bearing
300-312	125867	Bracket
300-314	125868	Detent Assem.
300-319	125871	Bracket
300-320	125872	Shaft
300-322	125873	Latch
300-400	125874	End Bracket
300-506	4707	Washer
300-510	125882	Terminal
400-3	125903	Brush
400-218	125914	Terminal
500-205	125935	Spring
700-55	125947	Screw
700-59	125948	Screw
700-71	3650	Washer
W-1238	126234	Pin
*55083-1	126096	"T" Bar
*55083-2	126097	"T" Bar
*55083-3	126098	"T" Bar
*55083-4	126099	"T" Bar
*55083-5	126100	"T" Bar
*55083-6	126101	"T" Bar
*55083-7	126102	"T" Bar
*55083-8	126103	"T" Bar
*55083-9	126104	"T" Bar
*55083-10	126105	"T" Bar
*55083-11	126106	"T" Bar
*55083-12	126107	"T" Bar
*55083-13	126108	"T" Bar
*55083-14	126109	"T" Bar
*55083-15	126110	"T" Bar
*55083-16	126111	"T" Bar
*55083-17	126112	"T" Bar
*55083-18	126113	"T" Bar
*55083-20	126114	"T" Bar
*55083-21	126115	"T" Bar
55084-A2	126156	Bar
55084-A4	126157	Bar
55084-A6	126158	Bar
55084-A8	126159	Bar
55084-A10	126160	Bar
55084-A12	126161	Bar
55084-A14	126162	Bar
55084-A16	126163	Bar
55084-A18	126164	Bar
55084-A20	126165	Bar
55084-B1	126166	Bar
55084-B3	126167	Bar
55084-B5	126168	Bar
55084-B7	126169	Bar
55084-B9	126170	Bar
55084-B11	126171	Bar
55084-B13	126172	Bar
55084-B15	126173	Bar
55084-B17	126174	Bar

*Indicates change

NEW TO OLD NUMBER CONVERSION LIST

New No.	Old No.
*1036	34-51
1157	33-1
1158	33-3
1159	33-5
1160	33-6
1161	33-7
1162	(33-10
	(33-156
1163	33-11
1164	33-14
1165	33-16
1166	33-17
1168	33-35
1169	33-37
1170	33-49
1171	33-53
1172	33-54
1173	33-64
1174	33-157
1176	33-195
1177	33-234
1179	33-238
1181	33-360
1222	33-39
1223	33-69
1263	33-4
3595	34-2
3597	34-6
3598	34-8
3599	34-9
3600	34-25
3602	34-28
3603	34-29
3604	34-50
3606	34-55
3608	35-58
3610	35-126
3614	(36-56
	(36-137
3618	61-7
3620	100-75
3621	100-85
3624	100-108
3625	S-122-39
3626	122-68
3627	S-122-234
3628	123-7
3630	123-36
3633	123-164
3634	123-165
3635	123-166
3636	123-167
3638	125-9
3639	200-20
3640	200-153
3646	200-1032
3647	200-1139
3649	200-2212
3650	700-71
4702	35-52
4703	35-86
4705	35-134
4707	300-506
4708	35-87
5475	34-5
5556	300-301
5740	33-13
5815	34-14
5816	100-74
9575	122-113
49054	33-111
*55257	34-12
70073	34-7
*71047	43-12
71444	123-8
74879	4-8
86850	33-240
87636	33-270
88993	138-100
110434	33-110
110435	34-56
110436	35-42
110437	35-70
110438	35-88
110440	36-153
110441	100-96
110442	138-22
110443	138-55
110444	138-58
110445	138-137
111019	122-575
112620	33-21
112621	33-170
112622	33-334
112623	33-335
112624	33-337
112626	34-4
112627	34-11
112628	34-64
112629	35-1
112630	35-2
112631	35-8
112632	35-33
112633	35-54
112634	35-89
112635	35-137
*112636	35-140
112640	122-384
125001	33-132
125002	33-179
125003	33-206
125005	33-280
125006	33-333
125009	34-59
125010	61-24
125011	103-27
125012	122-48
125013	122-276
125015	123-244
125016	126-123
*125092	36-131
125097	125-197
125098	125-198
125105	23-8
125108	33-2
125109	33-8
125110	33-9
125111	33-12
125112	33-15
125113	33-18
125114	33-22
125116	33-29
125117	33-32
125119	33-38
125120	33-41
125122	33-43
125124	33-50
125126	33-57
125127	33-58
125130	33-63
125131	33-65
125132	33-70
125138	33-85
125139	33-86
125141	33-89
125142	33-98
125143	33-101
125146	33-114
125149	33-130
125154	33-153
125155	33-158
125157	33-163
125159	33-168
125162	33-180
125163	33-185
125164	33-193
125165	33-194
125167	33-197
125168	33-198
125170	33-207
125171	33-208
125176	33-213
125178	33-224
125179	33-225
125180	33-227
125189	33-252
125190	33-253
125191	33-254
125192	33-255
125193	33-257
125195	33-271
125197	33-276
125198	122-557
125199	33-278
125200	33-282
125201	33-283
125205	33-296
125206	33-336
125209	33-341
125211	33-344
125212	33-346
125213	33-348
125215	33-350
125217	33-362
125218	34-1
125220	34-10
125221	34-13
125222	34-16
125223	34-19
125224	34-24
125225	34-27
125227	34-39
125228	34-41
125229	34-48
125231	34-58
125233	34-61
125235	34-66
125236	35-13
125239	35-24
125241	35-27
125242	35-28
125243	35-34
125244	35-40
125246	35-47
125248	35-53
125250	35-68
125251	35-69
125252	35-71
125253	35-72
125254	35-78
125255	35-80
125257	35-85
125258	35-99
125262	35-116
125267	35-132
125268	35-133
125269	36-120
125272	36-24
125273	36-28
125276	36-39
125277	36-45
125278	36-51
125280	36-73
125281	36-80
125288	36-110
125290	36-114
125292	36-132
125296	36-147
125297	36-150
125300	36-164
125306	43-10
125307	46-3
125314	61-10
125317	61-25
125328	100-80
125330	100-84
125339	100-112
125341	100-120
125373	112-7
125379	122-5
125380	122-11
125381	122-12
125382	122-18
125383	S-122-19
125384	S-122-20
125385	S-122-21
125386	S-122-22
125387	S-122-23
125388	S-122-24
125389	122-25
125390	122-26
125391	122-27
125392	122-28
125393	122-29
125394	122-35
125395	122-36
125396	S-122-37
125397	S-122-38
125398	S-122-40
125400	122-42
125401	122-43
125402	122-46
125403	122-49
125404	122-50
125405	122-51
125406	122-52
125407	122-53
125408	122-54
125409	122-55
125410	122-56
125411	122-57
125412	122-58
125413	122-60
125414	122-61
125415	122-62
125416	122-63
125417	122-65
125418	122-67
125419	S-122-69
125421	122-84
125422	122-86
125423	122-88

*Indicates change

New No.	Old No.
125424	122-89
125425	122-94
125426	122-95
125427	122-97
125428	122-100
125429	122-101
125430	122-102
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125433	122-107
125434	122-108
125438	122-116
125439	122-117
125440	122-118
125441	122-119
125443	122-121
125444	122-124
125445	122-126
125446	122-127
125447	122-128
125448	122-129
125449	S-122-130
125450	122-133
125451	S-122-134
125452	122-135
125453	S-122-136
125454	122-137
125456	122-140
125457	122-143
125458	122-146
125459	122-147
125463	122-194
125464	122-195
125465	122-196
125467	122-242
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125471	122-247
125472	122-249
125479	122-259
125481	122-275
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125724	125-238
125752	138-23
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125763	138-36
125775	138-127
125776	138-128
125777	138-129
125783	138-139
125789	200-214
125793	200-1134
125802	200-1348
125814	300-106
125815	300-107
125816	300-108
125817	300-109
125818	300-110
125820	300-113
125828	300-121
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125833	300-137
125844	300-152
125848	300-170
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125850	300-172
125851	300-173
125852	300-174
125855	300-178
125856	300-179
125858	300-181
125860	300-201
125861	300-302
125862	300-303
125867	300-312
125868	300-314
125871	300-319
125872	300-320
125873	300-322
125874	300-400
125882	300-510
125903	400-3
125914	400-218
125935	500-205
125947	700-55
125948	700-59
126096	55083-1
126097	55083-2
126098	55083-3
126099	55083-4
126100	55083-5
126101	55083-6
126102	55083-7
126103	55083-8
126104	55083-9
126105	55083-10
126106	55083-11
126107	55083-12
126108	55083-13
126109	55083-14
126110	55083-15
126111	55083-16
126112	55083-17
126113	55083-18
126114	55083-20
126115	55083-21
126156	55084-A2
126157	55084-A4
126158	55084-A6
126159	55084-A8
126160	55084-A10
126161	55084-A12
126162	55084-A14
126163	55084-A16
126164	55084-A18
126165	55084-A20
126166	55084-B1
126167	55084-B3
126168	55084-B5
126169	55084-B7
126170	55084-B9
126171	55084-B11
126172	55084-B13
126173	55084-B15
126174	55084-B17
126234	W-1238
126242	138-43
126243	138-44
126245	138-125
126246	138-126
126251	200-1177

TELETYPE CORPORATION
CHICAGO, ILLINOIS. U.S.A.

EE-525
ISSUE 1
JANUARY, 1946

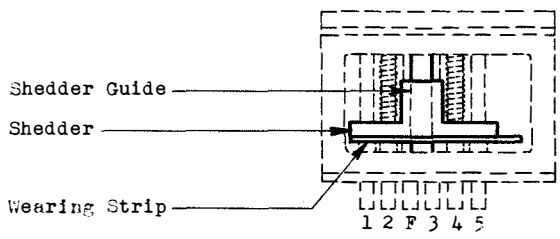
CHANGES AND ADDITIONS TO PARTS BULLETINS

1001	Issue 1	1067	Issue 2	1090	Issue 2
1012	Issue 2	1080	Issue 1	1093	Issue 1
1038	Issue 2	1082	Issue 2	1100	Issue 2
1052	Issue 1	1088	Issue 2	1117	Issue 2
1064	Issue 2	1089	Issue 1		

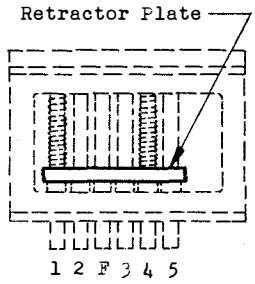
The punch block assemblies shown in the above bulletins have been redesigned and assigned new assembly numbers. Old style punch block assemblies are no longer furnished. On orders for old style blocks, new style assemblies which are fully interchangeable with the old style will be furnished.

The sketches below illustrate the difference between the old and new style assemblies, and it should be noted that the shedder and wearing strip are replaced by a retractor plate, and the shedder guides are not used. The shedder and wearing strip are no longer being furnished. When it is desired to replace a shedder or wearing strip, a retractor plate should be ordered instead.

The chart below may be used to determine the new style punch block assembly number which replaces an old style, and which retractor plate must be ordered to replace the old style shedder, and/or wearing strip.



OLD STYLE PUNCH BLOCK
(Spring on punches 2 & 4)



NEW STYLE PUNCH BLOCK
(Spring on punches 1 & 4)

Old Style Assembly Number	Apparatus Used On	Type of Punch Block			Shedder	Wearing Strip	New Style Assembly Number	Retractor Plate
		Number of Code Punch Holes	Type of Feed Hole	Grinding on Punches				
122-384	Perf. & nontyp. Reperf. (5 mag.)	5	Advanced	Cup Ground	122-367	122-368	112640	110902
122-575	Perf. & nontyp. Reperf. (5 mag.)	5	Straight	Cup Ground	122-367	122-574	111019	110901
77987	Perforator	6	Straight	Cup Ground	75121	77986	112642	110903
81510	Perforator	6	Advanced	Cup Ground	75121	75120	112643	110904
81792	Perf. Trans.	5	Straight	Cup Ground	75121	77986	111020	110901
85356	Nontyp. Reperf.	6	Advanced	V Notch	75121	75120	112645	110904
86113	Nontyp. Reperf.	5	Straight	V Notch	75121	77986	111021	110901
89504	Perf. Trans.	5	Straight	Cup Ground	75121	77986	111022	110901
91114	Perf. Trans.	5	Advanced	Cup Ground	75121	75120	112646	110902
94904	Perforator	7	Advanced	Cup Ground	94948	94950	112647	110905
95451	Typ. Reperf.	5	Straight	Cup Ground	122-367	122-574	111023	110901
97472	Nontyp. Reperf.	5	Advanced	V Notch	75121	75120	112648	110902
102790	Typ. Reperf.	5	Straight	Cup Ground	122-367	122-574	111024	110901
104573	Typ. Reperf.	5	Advanced	Cup Ground	122-367	122-368	112649	110902

PRINTED IN U.S.A.

CHANGES AND ADDITIONS TO BULLETIN NO. 1093, ISSUE 1
PARTS - PERFORATOR

Page 1

The 33-14 screw used to mount the 122-380 tape tension lever should read "33-114 screw."

Page 3

The plunger rod illustrated between the two M-25 magnet coils may be ordered as "75789 plunger rod" and is a part of the 122-88 punch magnet bracket (assem.)

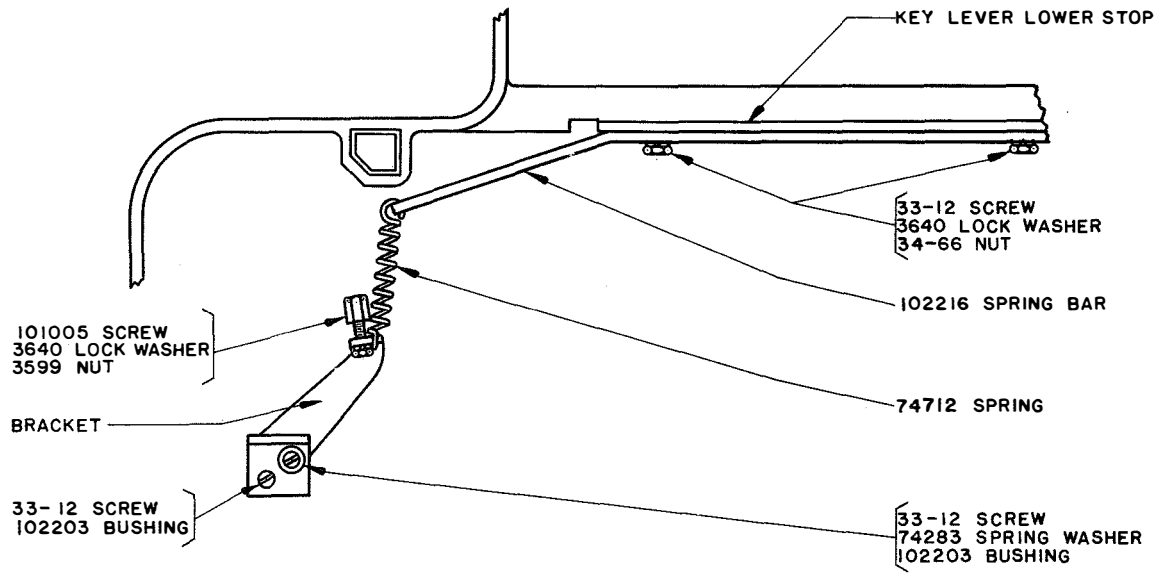
Page 6

The 35-86 spring for the 7103 pawl has been replaced by a 35-70 spring.

The 3598 nut used with the 101005 screw on the 99829 bracket should read "3599 nut."

The 103-102 screw-contact and 34-13 nut are not included in the 122-128 lamp contact bracket (assem.) as indicated by the bracket.

The design of the end-of-line indicating mechanism has been changed to provide a slight yield in the mounting of the 99829 bracket. The following figure shows the new parts introduced by this change:



Page 7

To improve operating margins, a 103965 relay support has been added. This support is mounted on top of the 99961 relay bracket and requires the use of the 1161 mounting screws instead of the 1176 screws formerly used to mount the 99961 relay bracket.

The 72570 strap used to mount the 101089 condenser has been replaced by a 104284 strap.

Page 9

The 103-102 screw-contact and 34-13 nut are not included in the 122-128 lamp contact bracket (assem.) as indicated by the bracket.

Printed in U.S.A.

NO.	NOTES

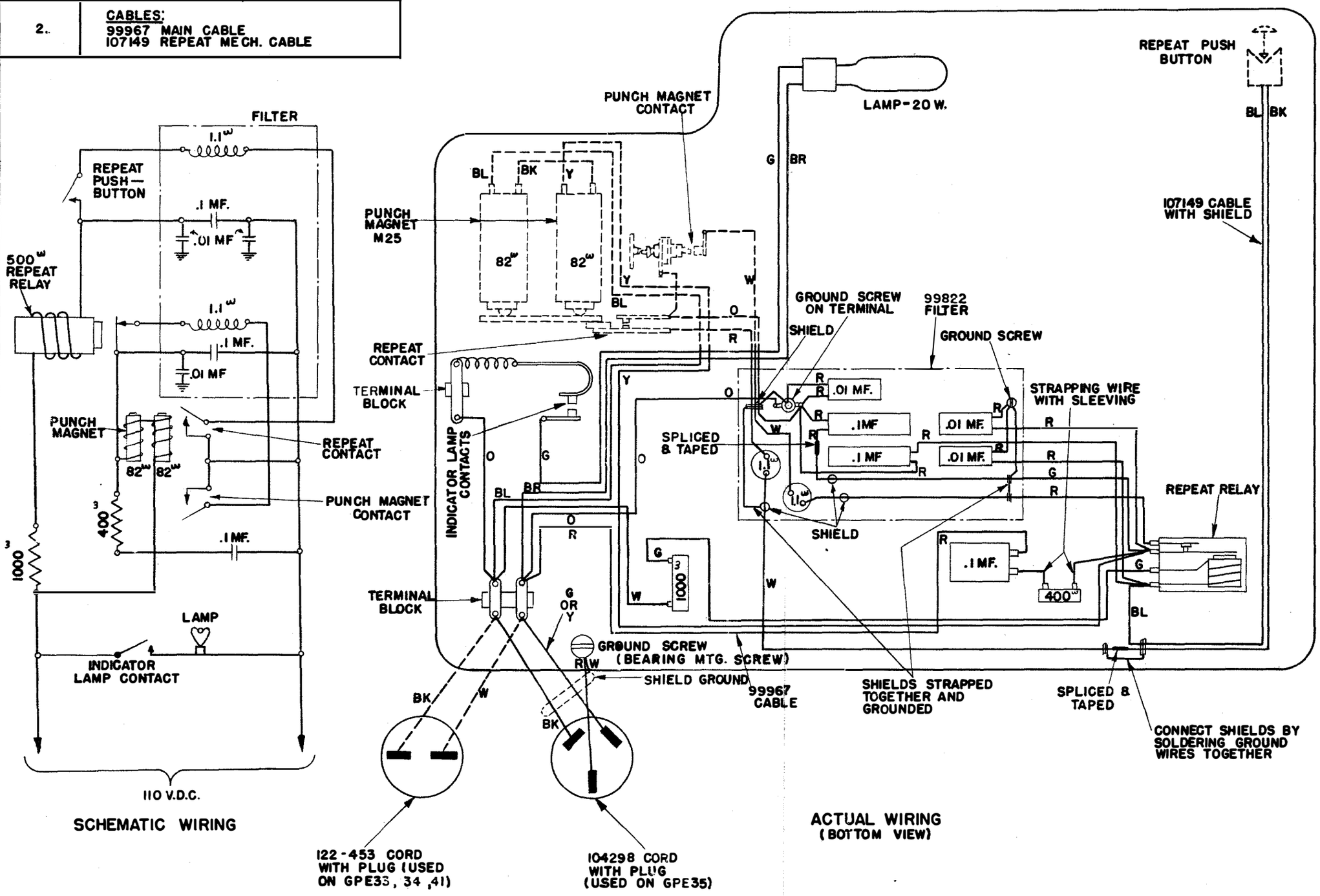
WIRE COLOR CODE

CODE	SOLID COLOR OR TRACER IN WHITE WIRE	CODE	SOLID COLOR OR TRACER IN WHITE WIRE
BL	— BLUE	O	— ORANGE
BK	— BLACK	P	— PURPLE - RED & BLUE TRACER
R	— RED	BR	— BROWN
Y	— YELLOW	W	— WHITE
G	— GREEN		

1.

2.. CABLES:
99967 MAIN CABLE
107149 REPEAT MECH. CABLE

REVISIONS		
(F)	REDRAWN. 3-30-44	33850
(G)	7-7-44	35007
(H)	6-21-46	40419
(I)	7-7-47	42530
(J)	8-1-47	42606
(K)	1-16-48	43703
L	3-16-50	49231



FILE: G-28 AAA

WD-1987-L
9-25-43

WIRING DIAGRAM

MODEL 14 PERFORATOR WITH RADIO FILTER

GPE33,34,35,39,41

DRAWN V.R.E.
ENG'R'D BW
APPROVED

TELETYPE CORPORATION

LUBRICATION SUPPLIES AND DIRECTIONS FOR USE

The following lubricants have been standardized for use on all types of Teletype apparatus:

88970	1 Qt. of KS-7470 Oil
88971	1 Gal. of KS-7470 Oil
88973	1 Lb. of KS-7471 Grease
88975	KS-8319 Grease Gun
97116	4-oz. Tube of KS-7471 Grease

The above grease is recommended instead of oil for lubricating motors equipped with ball bearings. The 88975 grease gun should be used for injecting grease into the bearings of Teletype ball bearing motors. The gun may be used also for applying grease to other parts of the apparatus and no other grease container need be carried. If this grease gun is not available, the oil listed in the foregoing should be substituted for lubricating ball bearing motors.

Instructions for Filling the Grease Gun

1. Unscrew the lubricant tube from the cap casting of the grease gun.

2. Insert fresh lubricant through the open end of the tube with the fingers. Apply gradually to eliminate air pockets.

3. Tamp the lubricant down solidly in the tube by pounding the closed end solidly against the palm of the hand. Continue to add lubricant until the tube is completely filled and the metal follower rests against the perforated tube cover.

4. Fill the cap casting with lubricant flush to the bottom side of the tube threads.

5. Screw the lubricant tube into the cap casting part way only. Then insert a pencil or rod through the perforated tube cover and exert pressure against the metal follower so as to expel any entrapped air past the tube threads. When lubricant begins to ooze through the threads, tighten the lubricant tube securely in the cap casting.

6. Operate the handle back and forth for several strokes or until lubricant is pumped from the nozzle. The gun is then ready for use. If the lubricant does not flow from the nozzle in a solid stream, it is an indication that all air has not been expelled from the lubricant tube. Invert the gun and pound the cap casting end against the palm of the hand to jar the lubricant into the pump cylinder.

Instructions for Lubricating Motor Ball Bearings

The motor bearings are packed with grease before the motor leaves the factory and under ordinary operating conditions need no additional lubrication for approximately two months. At the regular lubricating intervals one or two strokes of the plunger of the gun should apply sufficient grease to each bearing. To lubricate, press the nozzle of the gun against the ball oiler and force the grease into the hole by pushing on the plunger of the gun. Care should be taken that the bearings are not overloaded. Overloading will result in the grease oozing out of the end castings and being forced into the motor or being thrown on other parts of the mechanism. After lubricating, the motor should be run for a few minutes and then any excess grease that has been forced out of the ends of the castings should be wiped off. Each time that the gun is used for lubricating a motor bearing, the plunger should first be depressed slightly to make sure that grease will be delivered.

CHANGES AND ADDITIONS
BULLETIN NO. 1077 (ISSUE 3)
PARTS - TABLE

This correction sheet covers parts ordering information for the Model 15 or 26 send-receiving printer metal table (XRT-115) having all the electrical service parts housed in a metal container on the underside of the table.

Also covered herein is parts ordering information for the 19 type set metal table (XRT-116) designed for use with multi-voltage, multi-frequency rectifiers.

Pages 1 and 2

XRT-115 is a metal table (black wrinkle), without the "Lord Mounting" features, designed to mount either a Model 15 or 26 send-receiving printer. This table is similar to the one illustrated on pages 1 and 2, but differs in that all the electrical service parts shown on the underside of the table are mounted in a metal container. This container, and all the parts mounted therein, are shown in the 105014 electrical service (Assem.) shown on page 3 of this correction sheet.

The XRT-115 table consists of one table, one 105014 electrical service (Assem.), one 91863 pad and four 91095 feet. For wiring data, see wiring diagram W.D.-2146.

Pages 11 and 12

XRT-116 is a metal table (black wrinkle) without the "Lord Mounting" features, designed to mount a 19 type set. This table is similar to the one illustrated on pages 11 and 12, plus the additional parts listed below:

	(95005	Resistor (2500 ohms)		2
	(92271	Screw	)	2
A	(76099	Washer (Steel)	)	2
	(75750	Washer (Bakelite)	) For 95005	10
	(2191	Lock Washer	)	2
	(105855	Terminal Strip		2
B	(200-148	Spacer	)	4
	(73235	Screw	) For 105855	4
	(105205	Plug Mounting Bracket		1
	(33-4	Screw	)	4
	(7002	Washer	) For 105205	4
	(2191	Lock Washer	)	4
C	(105206	Plug - 4 Prong		1
	(1176	Screw	)	2
	(2191	Lock Washer	) For 105206	2
	(105391	Knife Switch - 4 P.D.T.		1

C	(80757	Screw	)	2
	(2669	Lock Washer	) For 105391	2
	(34-58	Nut	)	2
	(106067	Connector (with terminals)		2
	(103287	Fusetron (1.25 amp.)		1
D	(103288	Fusetron (1.40 amp.)		1
	(105387	Cable		1
	(105392	Cable		1
	(105393	Cable		1

(A) Parts in Group A are mounted behind the "line jack" mounting panel.

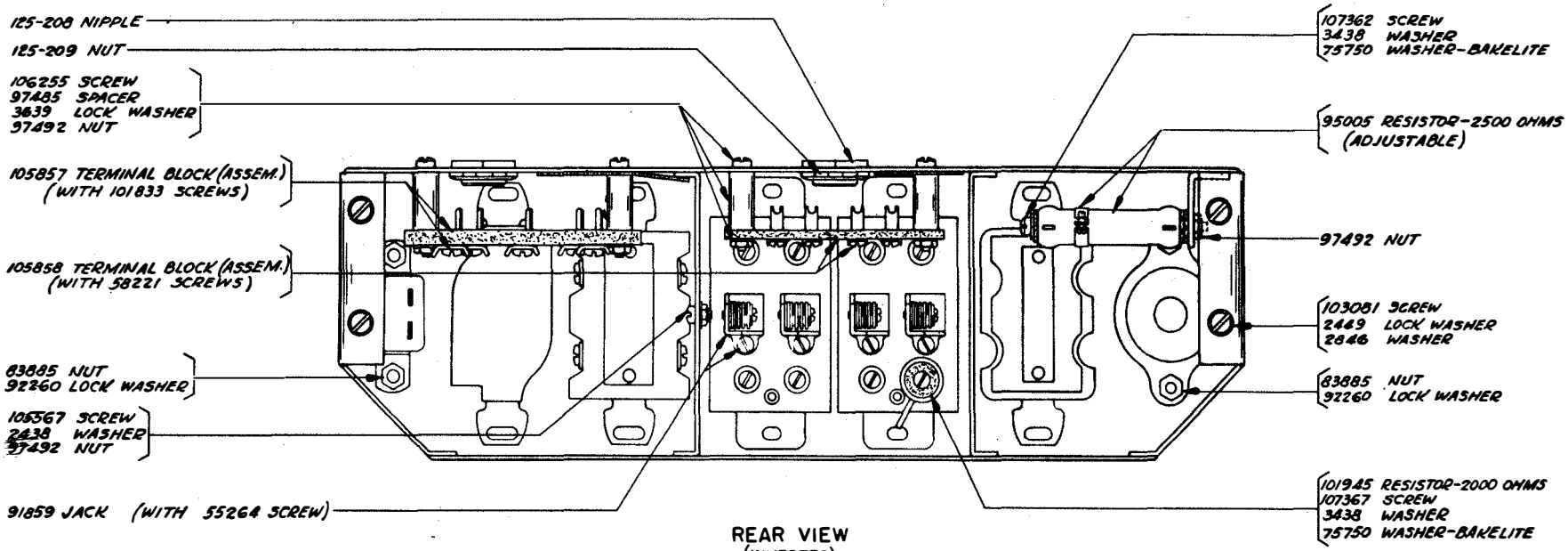
(B) Parts in Group B are mounted on top of the three short terminal blocks.

(C) Parts in Group C are mounted between the two long terminal blocks and the three lower receptacles.

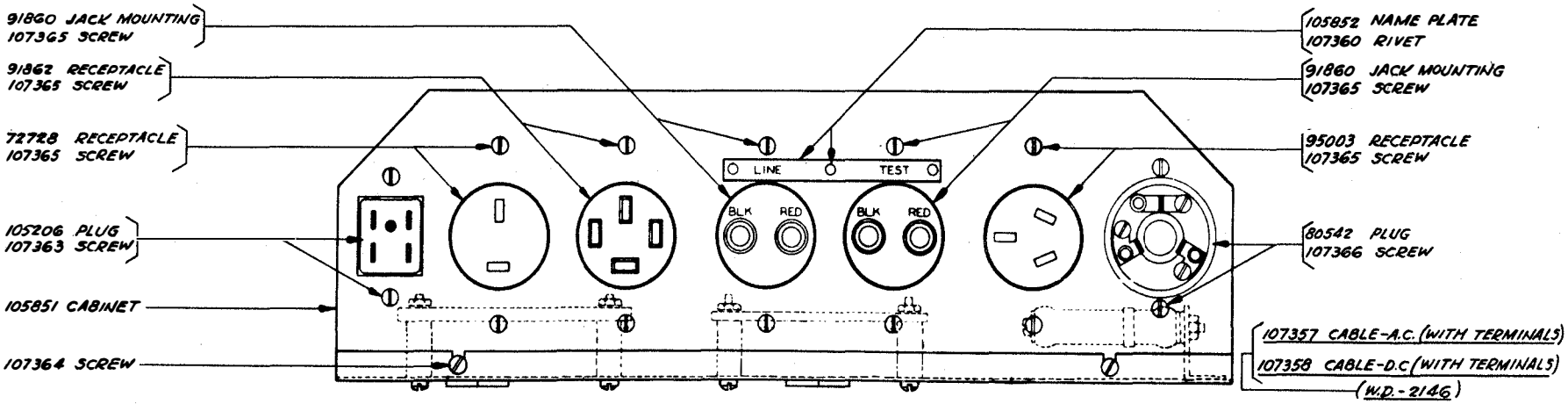
(D) For location of parts in Group D refer to wiring diagrams W.D.-2161 and W.D.-2162.

Page 13

Two guards have been added under the 77625 slip connection guard of the 84103 mounting plate (Assem.). These two guards may be ordered as 105187 Guard - left and 105188 guard - right.



REAR VIEW
(INVERTED)

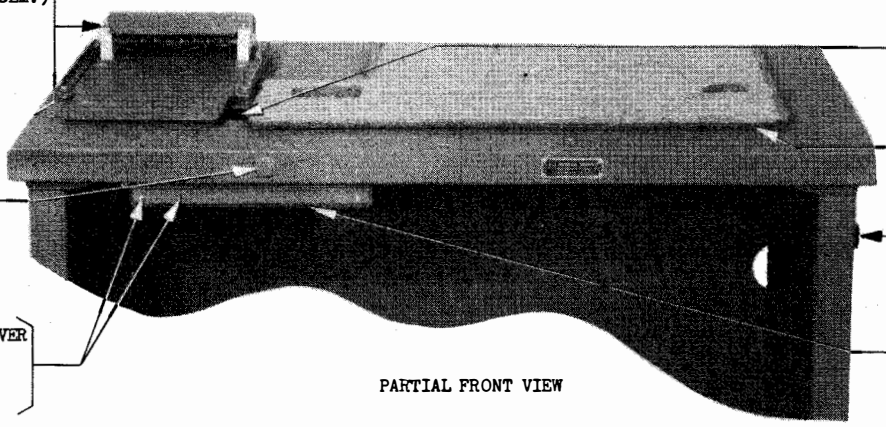


FRONT VIEW

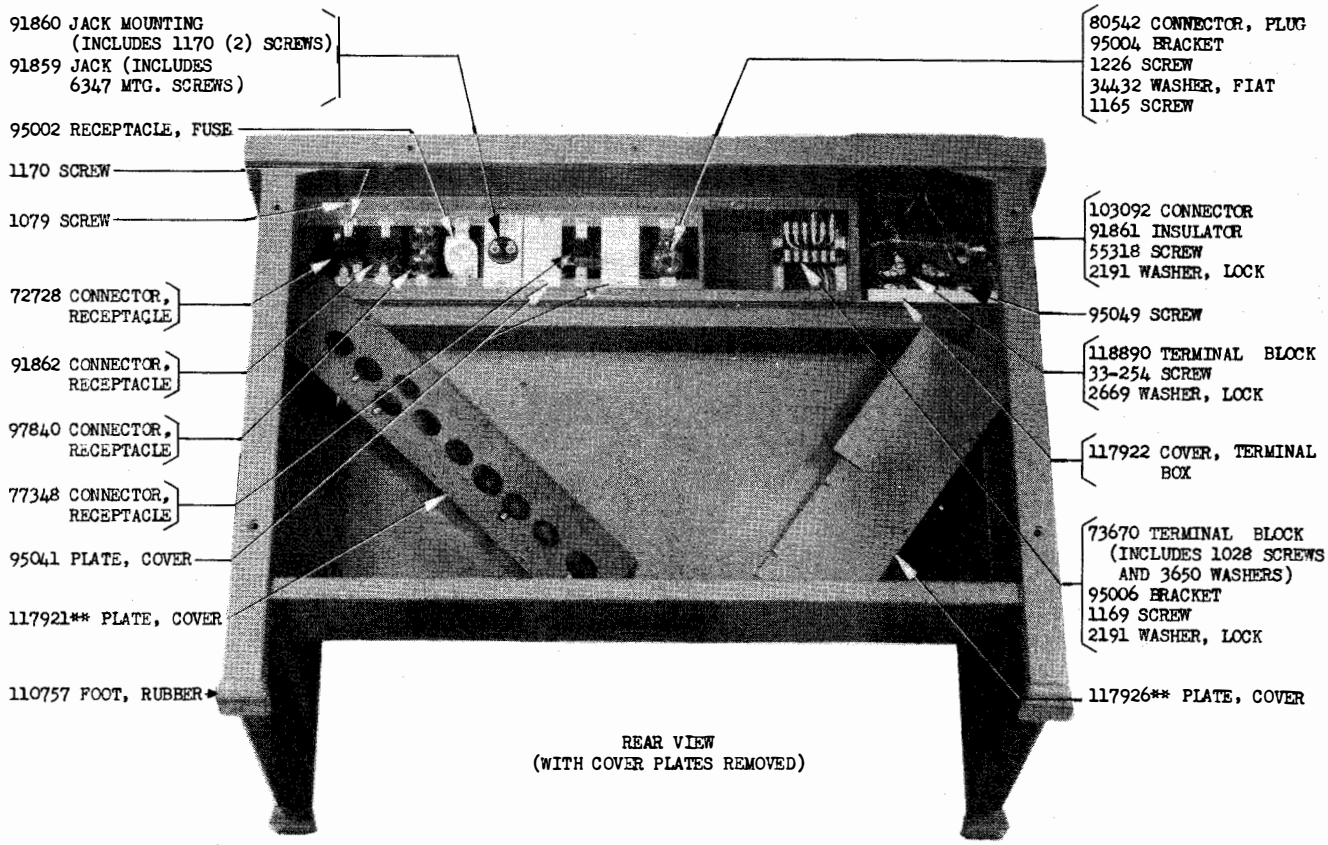
105014 ELECTRICAL SERVICE (ASSEM.)-BLACK WRINKLE
(PART OF XRT115 TABLE)

CHANGES AND ADDITIONS
TO BULLETIN NO. 1077 (ISSUE 3)

PARTS ORDERING INFORMATION FOR
MODEL 19 TABLES XRT205** AND XRT206**



PARTIAL FRONT VIEW

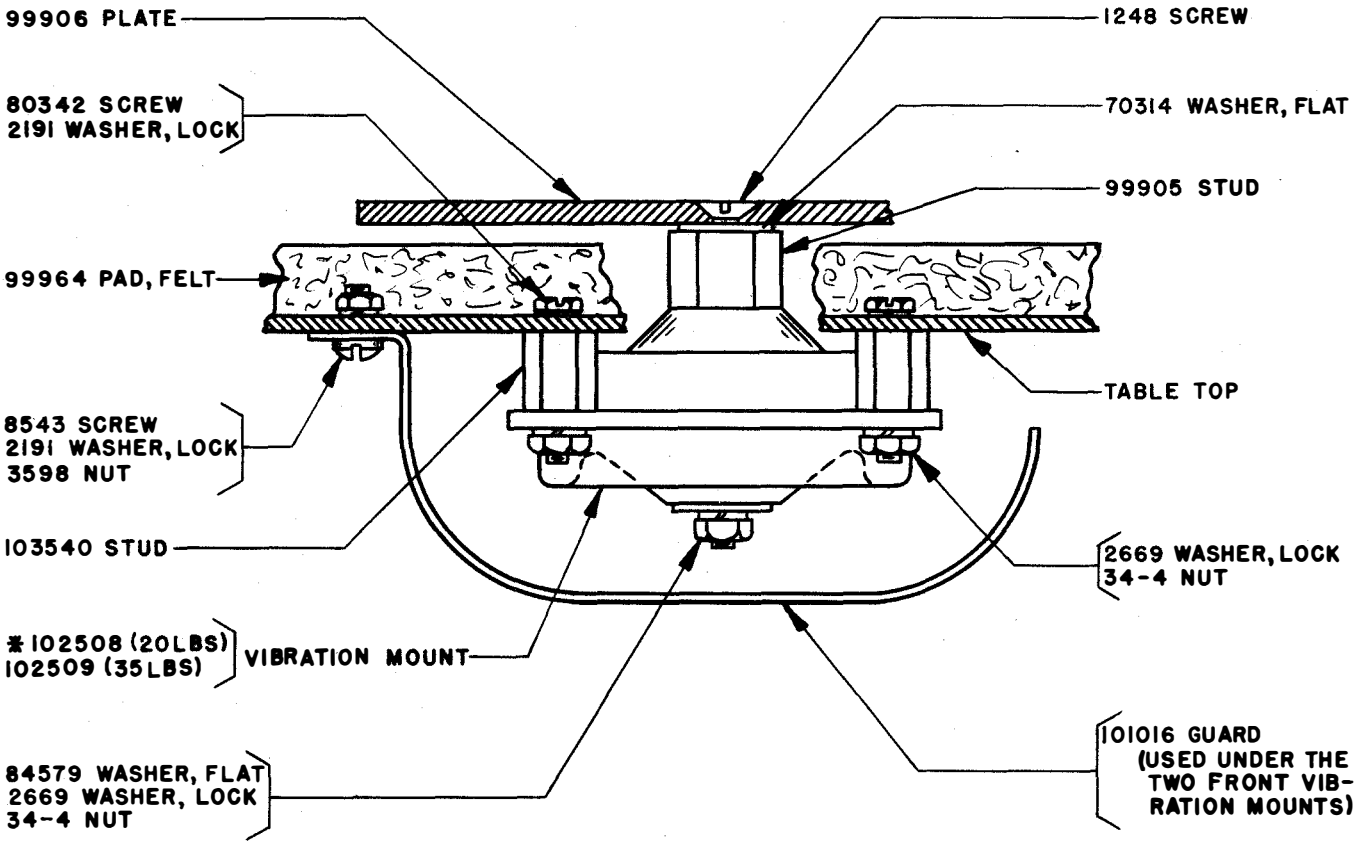


REAR VIEW
(WITH COVER PLATES REMOVED)

NOTE: THE DOUBLE ASTERISK (**) DESIGNATES A TWO-LETTER SUFFIX WHICH INDICATES THE TEXTURE AND COLOR OF THE PAINT FINISH. THE FOLLOWING FOUR STANDARD WRINKLE FINISHES ARE NOW AVAILABLE:

AA - BLACK
AB - GRAY GREEN
AC - LIGHT BROWN
AD - DARK BROWN

CUSHION MOUNTING PARTS FOR MODEL 19 TABLE



VIBRATION MOUNT AS VIEWED
FROM RIGHT SIDE OF TABLE

THE XRT205 METAL TABLE WHEN EQUIPPED WITH THE 117082 SET OF PARTS (SHOWN ABOVE) CONVERTS IT TO AN XRT206.

* THE 102508 (20 LBS.) VIBRATION MOUNT IS TO BE PLACED AT THE LEFT REAR SIDE AS VIEWED FROM FRONT OF TABLE.

Teletype Corporation
Chicago, Illinois, U.S.A.

CHANGES AND ADDITIONS
BULLETIN 1077 (ISSUE 3) PARTS - TABLES

This correction sheet covers parts ordering information for the XT201** Table with the 97414** Shelf. XT201** Table supersedes the XT39 Table.

On page 3 of this correction sheet, the 115932** Distributor Mounting Plate Assembly (Six Unit) supersedes the 84103 Mounting Plate Assembly (Five Unit) shown on page 13 of the bulletin.

Note:

The double asterisk (**) designates a two-letter suffix which denotes the paint finish. The following finishes are now available on the finished parts listed in this correction sheet:

AA - Black Wrinkle	AC - Light Brown Wrinkle
AB - Gray Green Wrinkle	AD - Dark Brown Wrinkle

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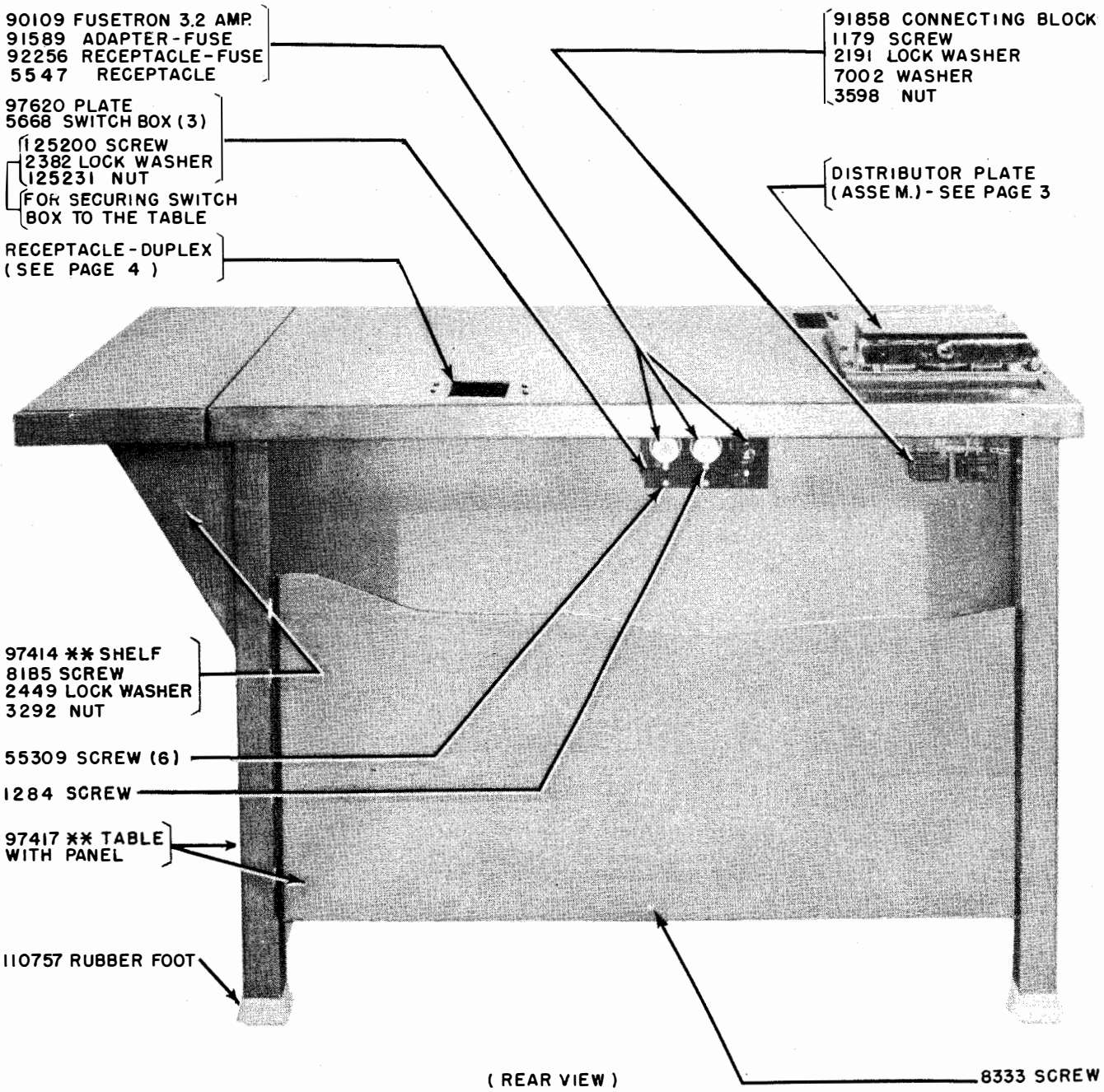
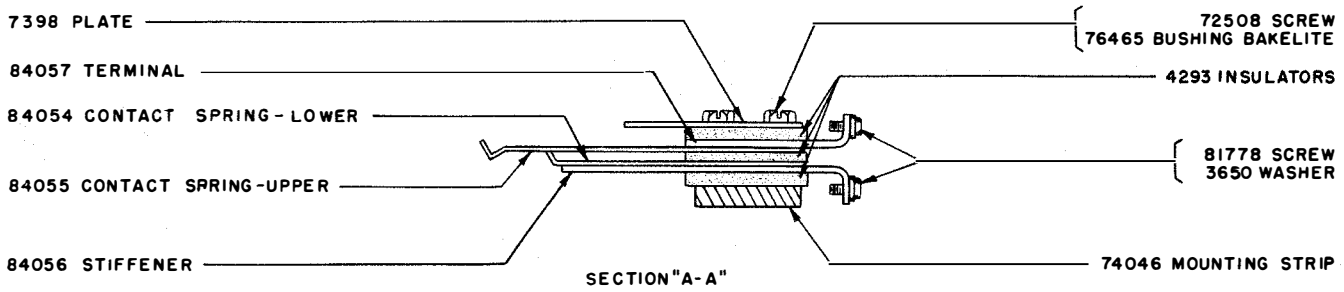
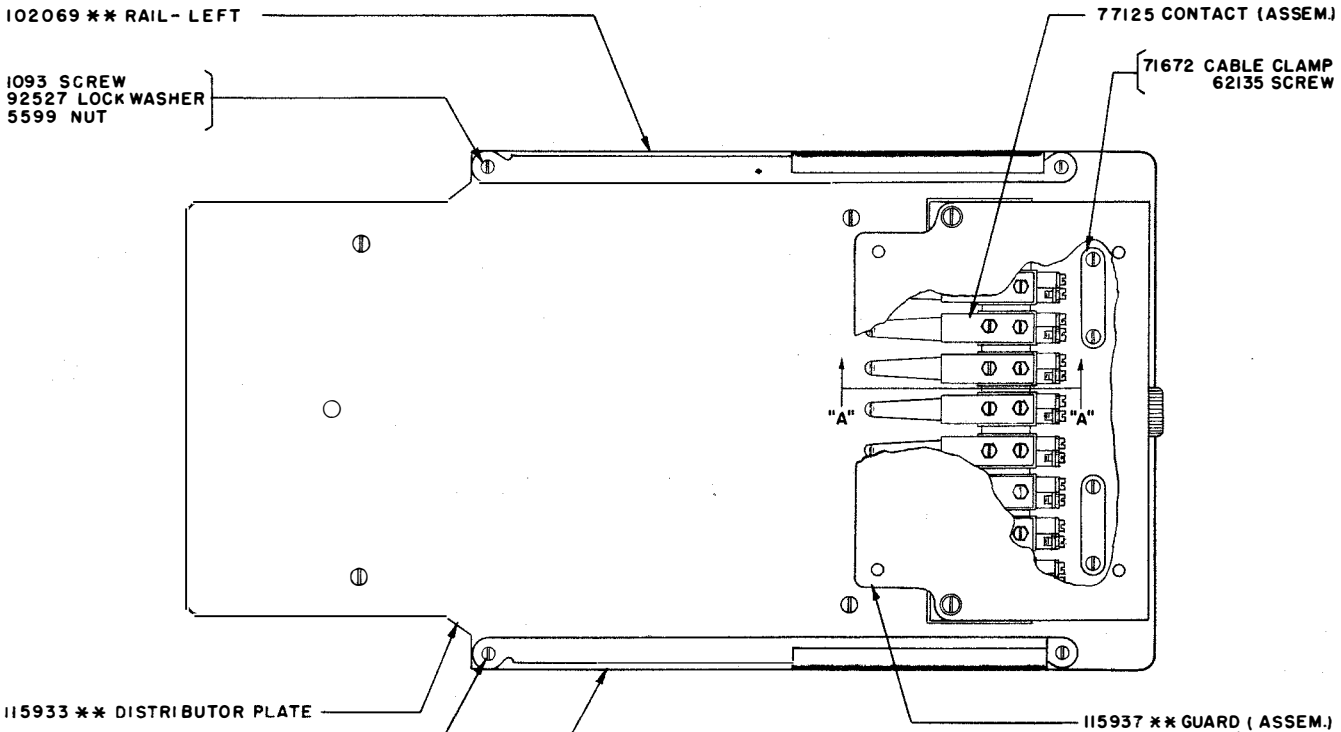


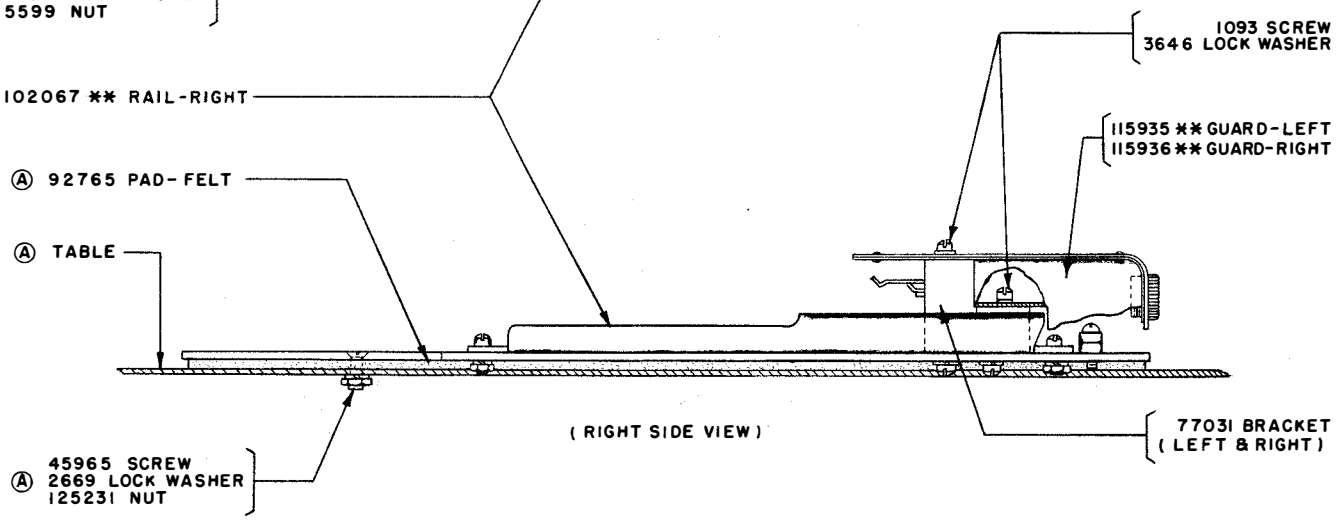
(REAR VIEW)

XT201 ** TABLE
(EXCLUDES 97414 ** SHELF & MOUNTING PARTS)



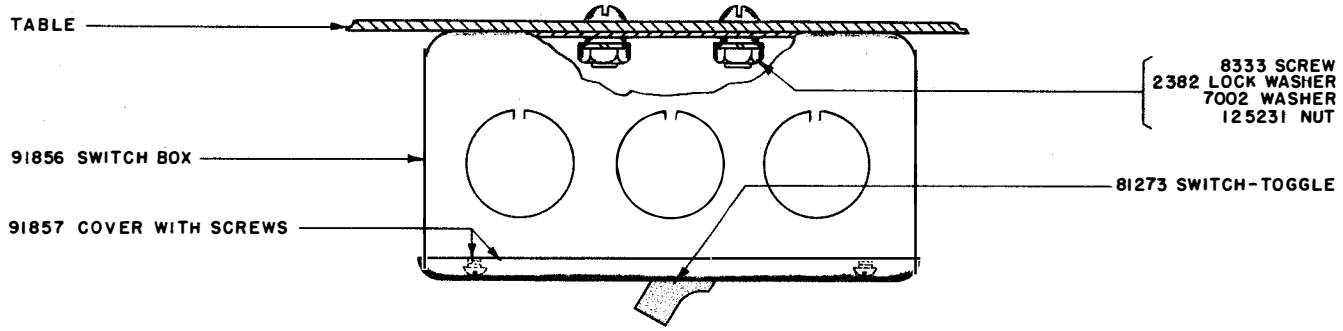
77125 CONTACT (ASSEM.)

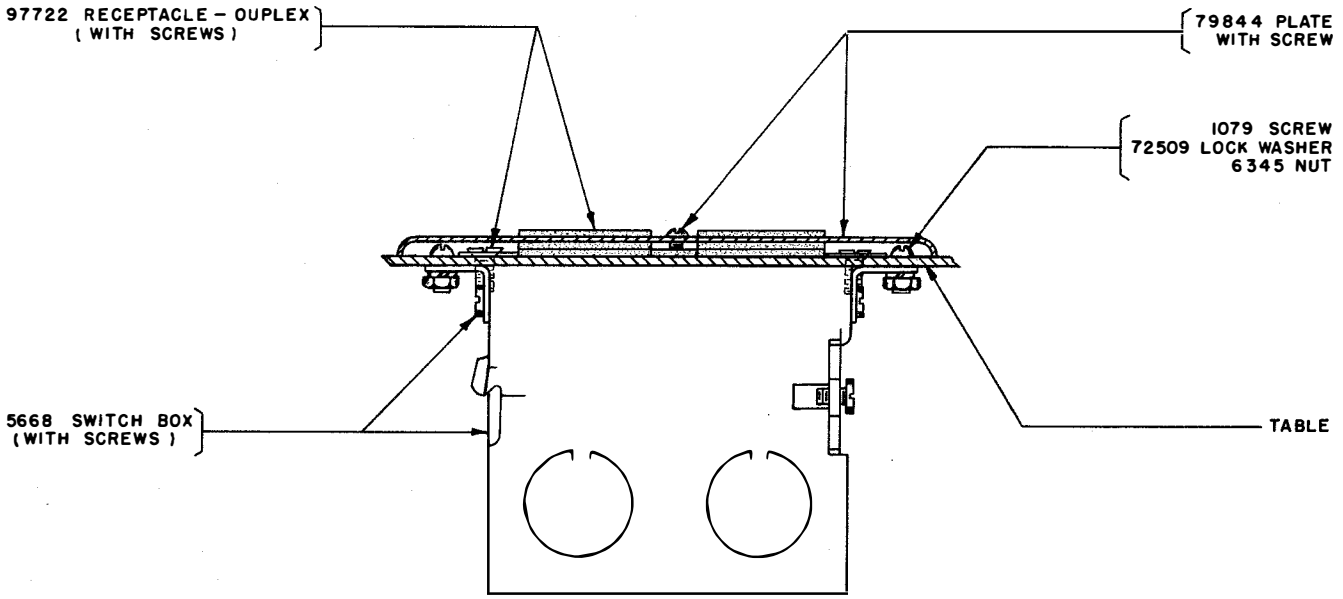


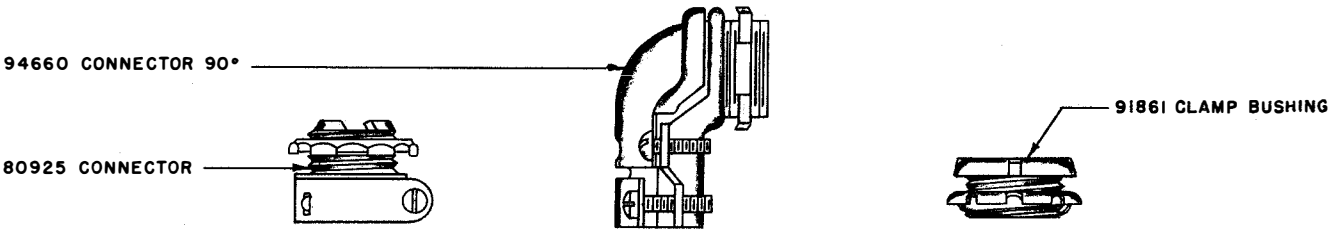


(**) SEE NOTE ON PAGE 1

115932 ** DISTRIBUTOR MOUNTING PLATE (ASSEM.)
EXCLUDES PARTS MARKED Ⓐ

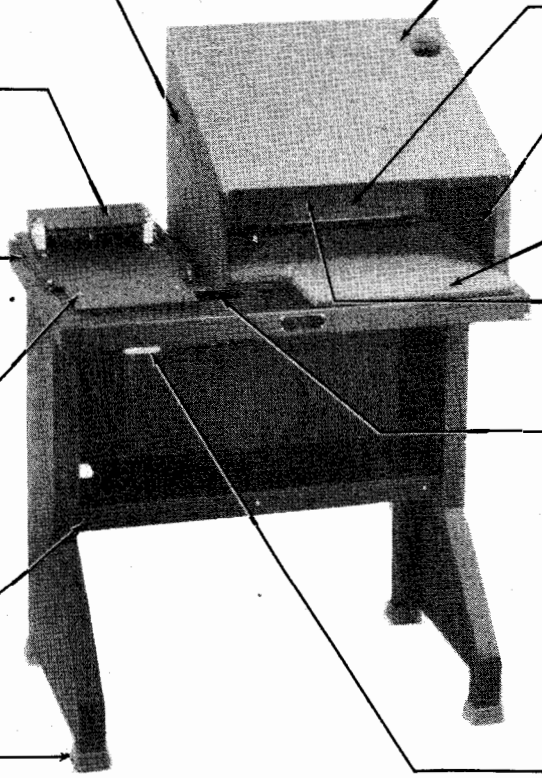






ELECTRICAL FEATURES

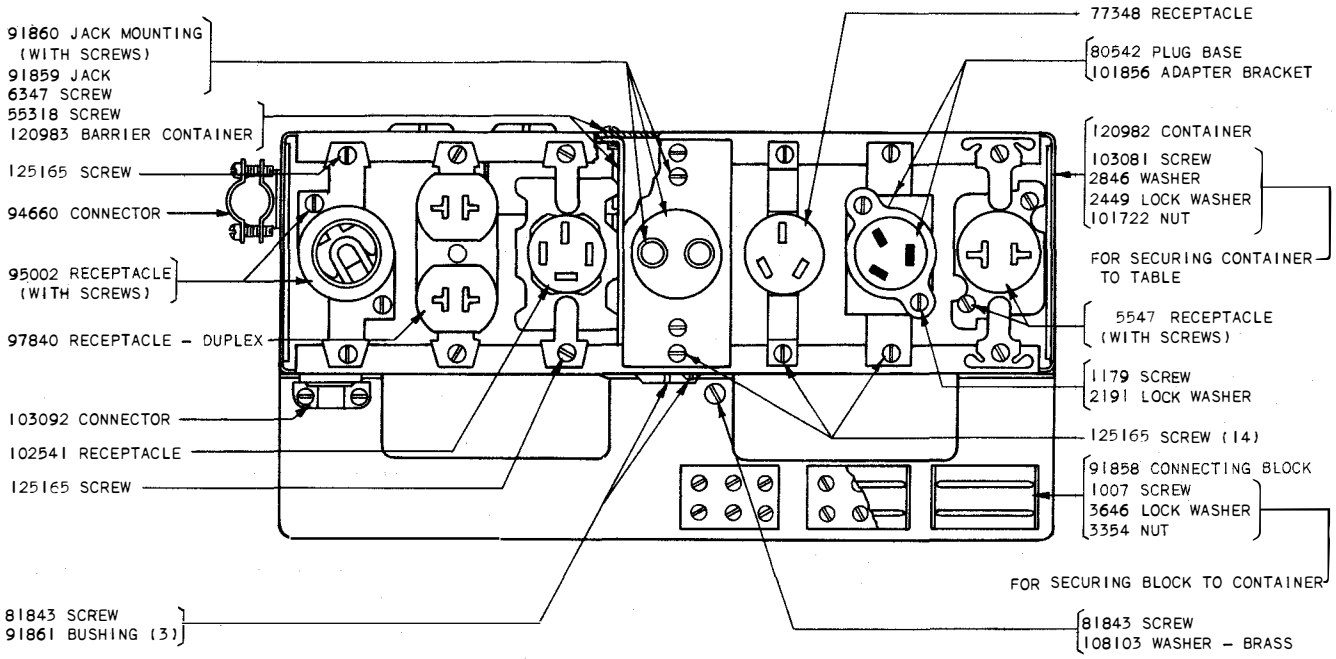
CHANGES AND ADDITIONS
TO PARTS BULLETIN B-1077, ISSUE 3
TO PROVIDE PARTS ORDERING INFORMATION
FOR XT202** TABLE



XT202** TABLE

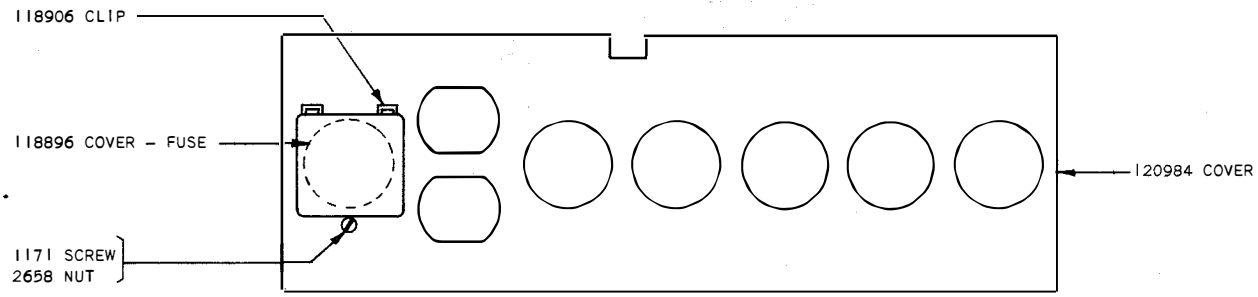
NOTE: THE DOUBLE ASTERISK (**) DESIGNATES A TWO-LETTER SUFFIX WHICH DENOTES THE PAINT FINISH. THE FOLLOWING FINISHES ARE NOW AVAILABLE ON THE FINISHED PARTS LISTED ABOVE:

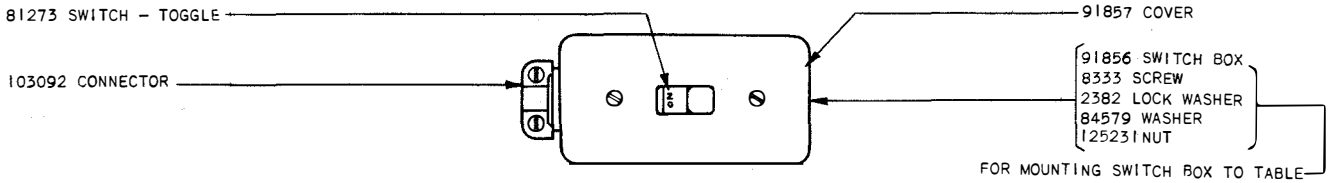
AA - BLACK WRINKLE
AB - GRAY GREEN WRINKLE
AC - LIGHT BROWN WRINKLE
AD - DARK BROWN WRINKLE



TOP VIEW COVER REMOVED

120985 CABLE (ASSEM.)
120986 CABLE (ASSEM.)
(SEE 2613WD.)





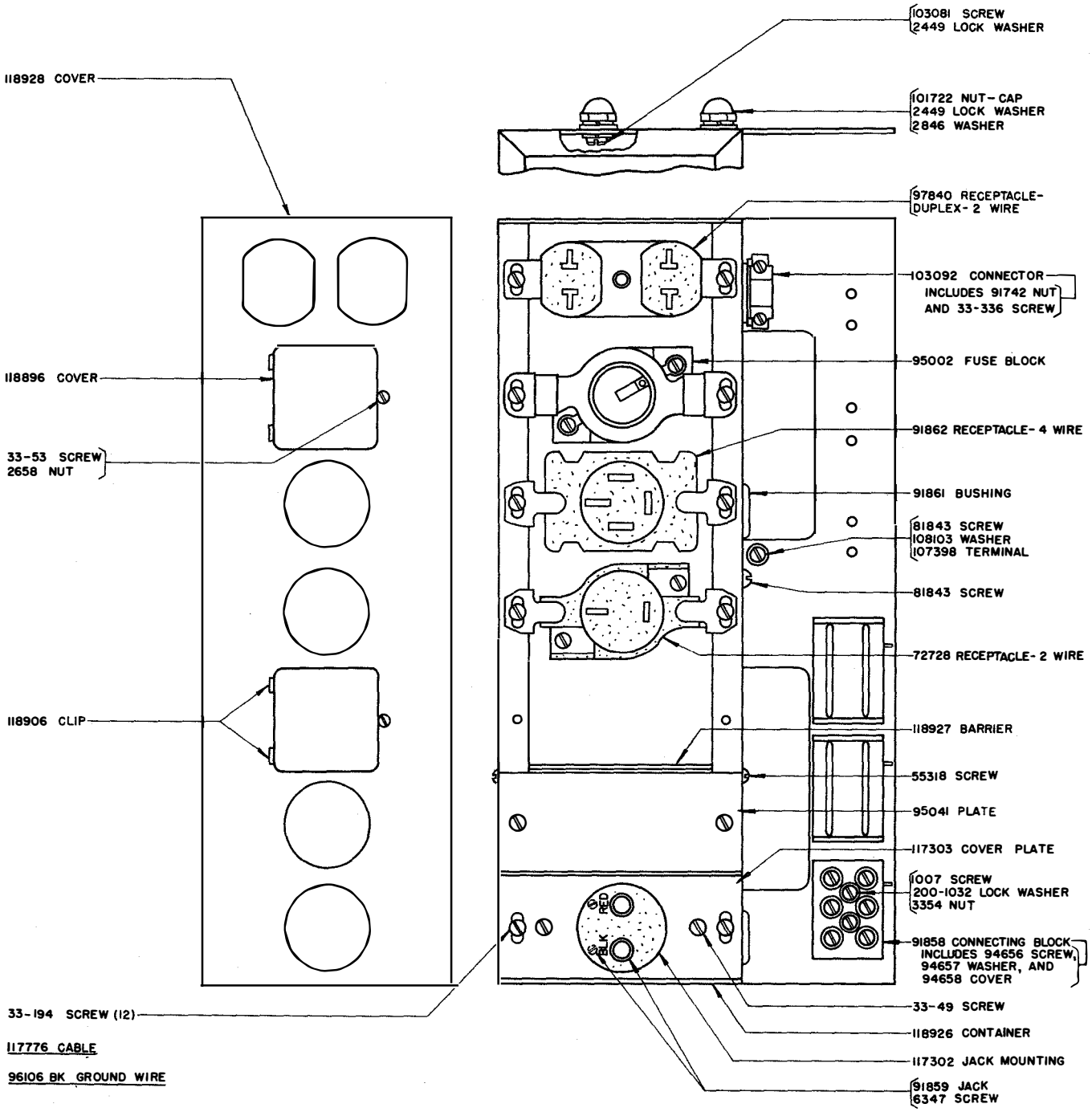
120981 ELECTRICAL SERVICE ASSEMBLY

TELETYPE CORPORATION
CHICAGO, ILLINOIS, U.S.A.

EE-655
ISSUE 1
NOVEMBER, 1948

CHANGES AND ADDITIONS TO BULLETIN NO. 1077 (ISSUE 3) PARTS-TABLES

PARTS ORDERING INFORMATION FOR THE 117852 ELECTRICAL SERVICE UNIT



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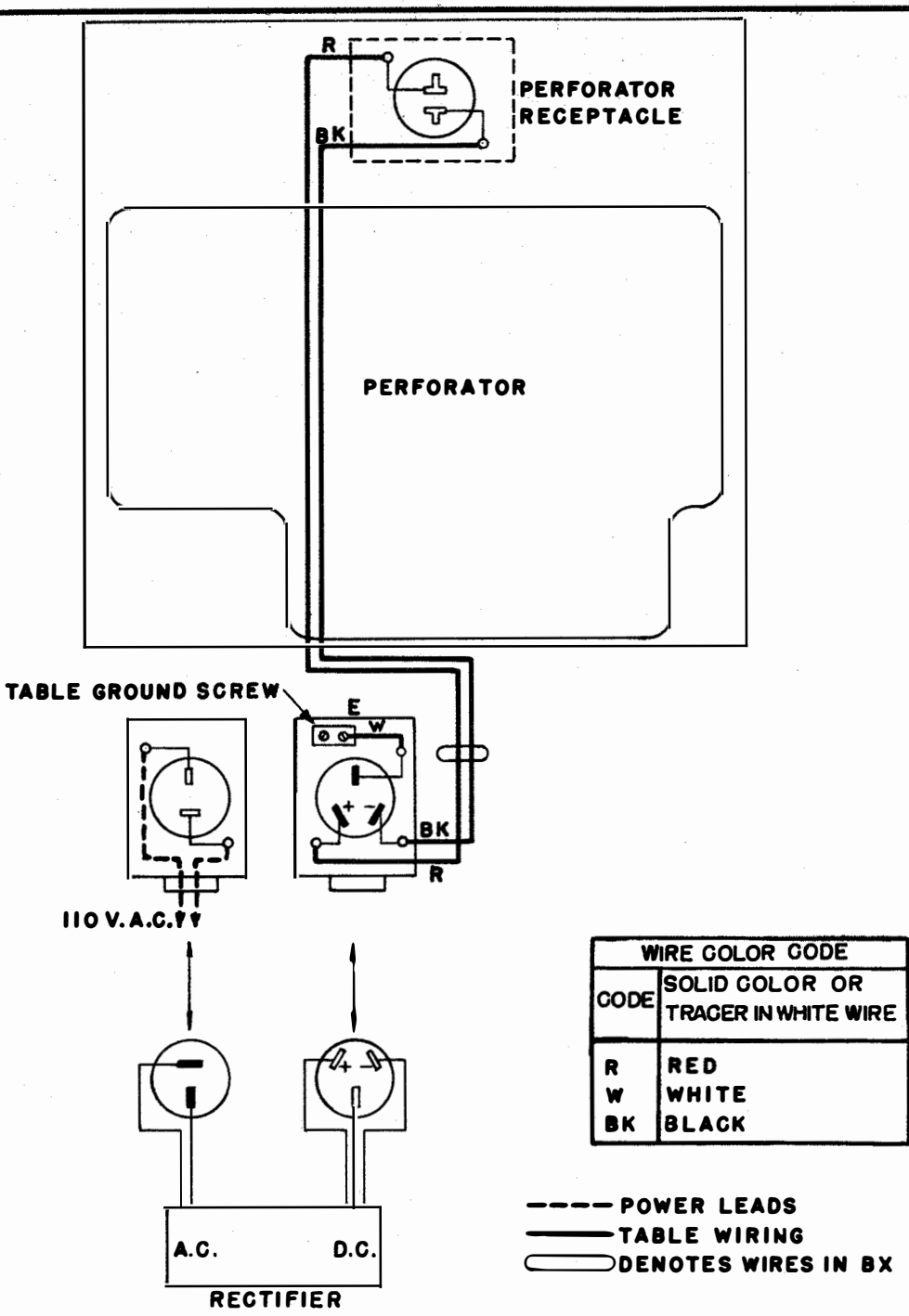


WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
R	RED
W	WHITE
BK	BLACK

---- POWER LEADS

——— TABLE WIRING

⬭ DENOTES WIRES IN BX

TABLE CONNECTIONS FOR VARIOUS POWER SUPPLIES		
ARRGT	POWER SUPPLY FOR PERFORATOR	POWER CONNECTIONS SEE NOTE C
1	RECTIFIER ON TABLE	CONNECT AS SHOWN
2	110 V. D.C. POWER SUPPLY EXTERNAL TO TABLE (EITHER + OR − GROUNDED)	DISCONNECT R & BK WIRES FROM RECEPTACLE E. SPLICE & TAPE R & BK WIRES TO + & − 110 V. D.C.

NOTES–

A – RECEPTACLES AND PLUGS SHOWN FROM SLOT AND PRONG FACES.

B – ALL WIRES #18 C.C. DELTABESTON.

C – POWER WIRING MAY BE BROUGHT INTO OUTLET BOXES THRU BUSHINGS AS SHOWN, OR IN CONDUIT TO KNOCKOUTS. HOLES ARE PROVIDED IN REAR PANEL FOR ACCESS TO REAR KNOCKOUTS.

REVISIONS

TELETYPE CORPORATION

WD-2051
4-24-41

WIRING DIAGRAM TABLE FOR PERFORATOR PET-2

DRAWN Rue
TRACED
CHECKED
ENG'R'D Q.P.N.
APPROVED FR LWB

Teletype Corporation
Chicago, Illinois U.S.A.

Specification S-5267
Issue 7, Page 1
April, 1945

DESCRIPTION, ADJUSTMENTS AND PARTS CATALOG OF THE TELETYPE REC11 RECTIFIER

DESCRIPTION

The REC11 rectifier is designed to deliver continuously 0.6 ampere at 120 volts D.C. from 105 to 125 volt 50-60 cycle A.C. single phase power supply. The direct current from this rectifier is suitable for operation of Teletype perforator punch magnets but is NOT suitable for use in the signaling or local relay and selector magnet circuits of Teletype apparatus.

This rectifier consists of an insulated type input transformer with variable secondary taps, a full wave selenium rectifying element, a power factor correction condenser, a filter consisting of a choke and a condenser, and a bleeder resistor. All parts are secured to a metal base which has feet for shelf mounting. The rectifier is furnished complete with cover, cords, and plugs for making A.C. and D.C. connections.

The metal cover which is fastened to the base by means of screws has a black wrinkle finish.

The approximate dimensions of the rectifier are 11-7/8" long, 8-1/2" deep, and 8" high.

RATING

Input: 105 to 125 volts, 50 to 60 cycles A.C., single phase.
Output: 0.6 ampere at 120 volts D.C.
No load D.C. voltage when new: Not over 145 volts.
A.C. component in D.C. output voltage not more than 6 volts R.M.S. at .6 ampere load.

ADJUSTMENTS

The secondary of the transformer is provided with taps so that the output voltage of the rectifier can be adjusted to suit requirements and to compensate for voltage drop resulting from aging of the rectifying assembly. These taps are equipped with leads which connect to eight terminals on a panel. Three terminals provide coarse voltage adjustment and are labeled L, M, and H. Five terminals provide fine voltage adjustment and are labeled 1, 2, 3, 4, and 5. Connections to these terminals are made by means of pin plugs or spade terminals attached to flexible leads. The plugs or terminals are connected, at the factory, to terminals M and either 1, 2, or 3 to deliver .6 ampere at 120 volts D.C.

The method normally employed in checking the D.C. output of this rectifier is to disconnect all apparatus from the D.C. side and connect a 60 watt lamp in series with a suitable ammeter across the output. For correct adjustment of the output, the flexible leads should be connected to those taps which will cause the ammeter to register a current flow which is nearest but not less than 0.5 ampere. This adjustment should be checked when the rectifier is installed and periodically thereafter. The amount of aging

will be somewhat greater during the first few months of use. After this, the rectifier should operate for long periods without the necessity of readjustment.

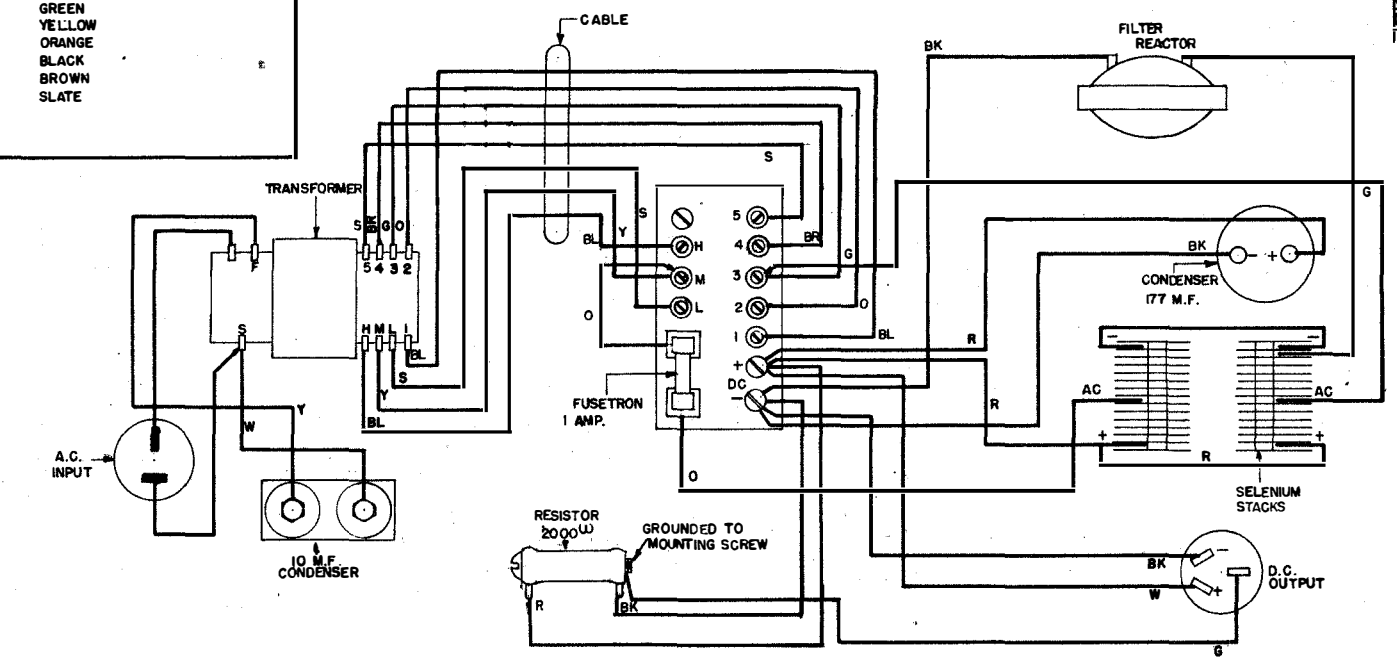
If at any time it is necessary to use the maximum regulating taps to obtain the proper output current, the rectifier should be withdrawn from service and repaired.

Wiring diagram W.D. 2050 which forms a part of this specification shows the actual and schematic wiring of this rectifier. An assembly drawing is also furnished showing names and teletype part numbers of the component parts of the rectifier.

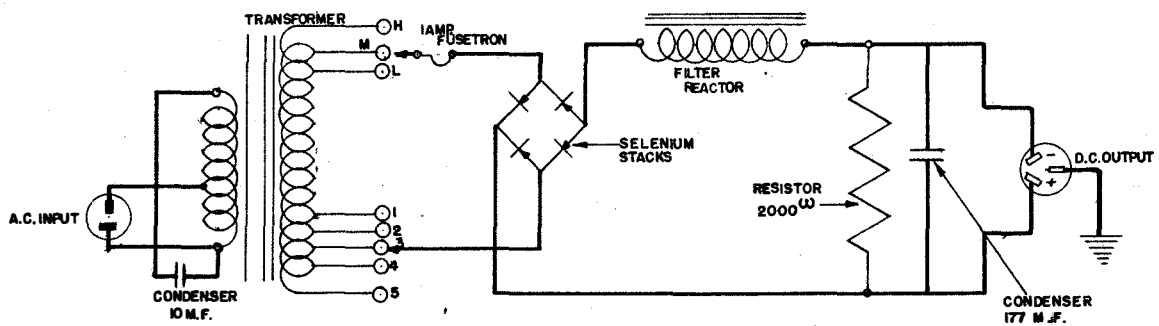
* * *

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
R	RED
W	WHITE
BL	BLUE
G	GREEN
Y	YELLOW
O	ORANGE
BK	BLACK
BR	BROWN
S	SLATE

REVISIONS
(A) SPADE TERMINALS SHOWN 11-8-43 32642
(B) 2-15-44 33447
(C) 8-30-44 35430
(D) 10-20-44 35863
(E) 4-12-45 37540



ACTUAL



SCHEMATIC

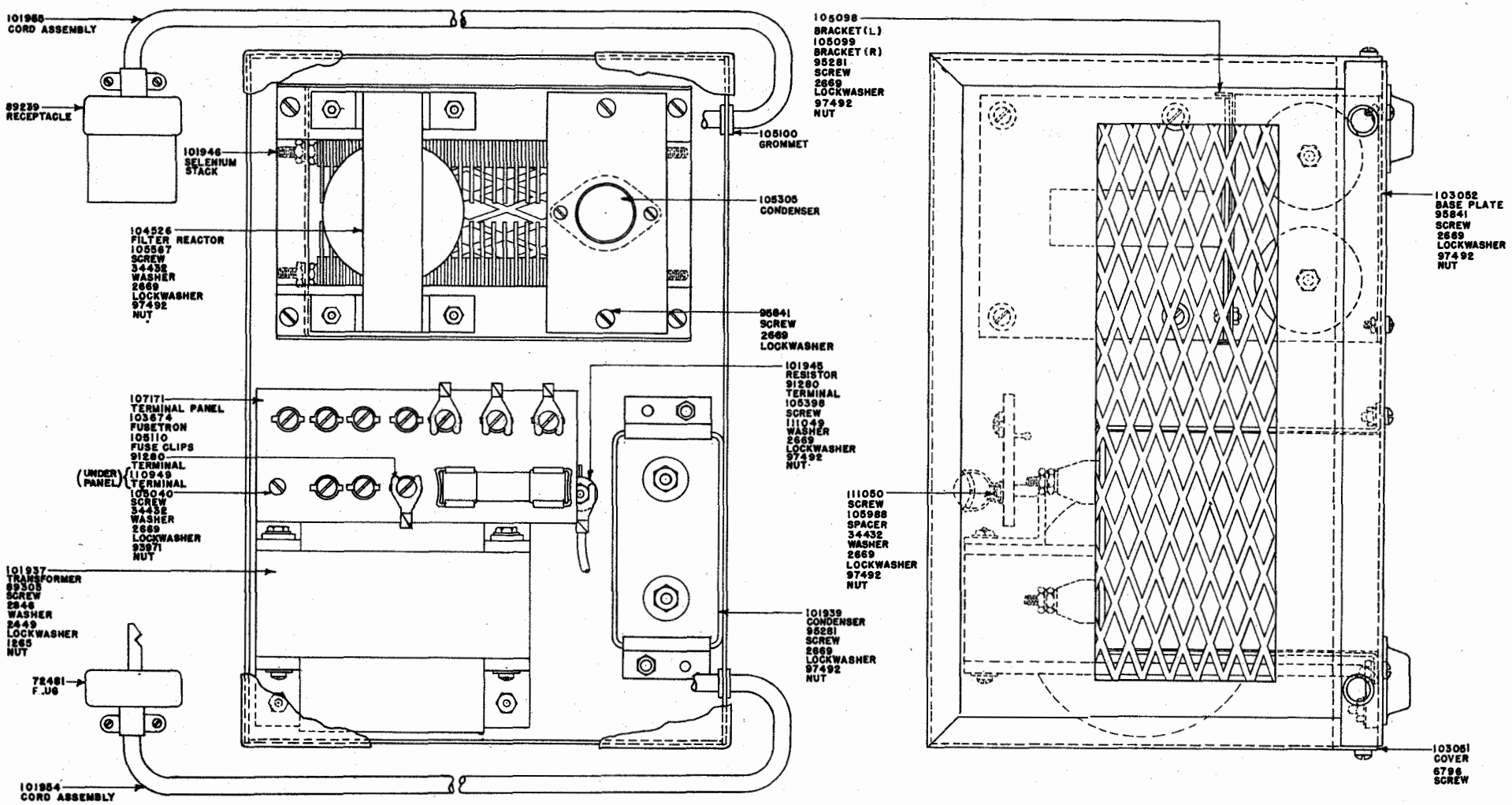
WD 2050 E
10-16-41

WIRING DIAGRAM
REC11 & REC19
RECTIFIERS

DRAWN A.G.C.	APPROVED
ENG'RD B.W.	

FILE. 19-33AAA

TELETYPE CORPORATION


101955
CORD ASSEMBLY
89239
RECEPTACLE
101946
SELENIUM
STACK
104526
FILTER REACTOR
105567
SCREW
34432
WASHER
2669
LOCKWASHER
97492
NUT
107171
TERMINAL PANEL
103674
FUSETRON
105110
FUSE CLIPS
91280
TERMINAL
(UNDER PANEL) 110949
TERMINAL
105040
SCREW
34432
WASHER
2669
LOCKWASHER
93971
NUT
101937
TRANSFORMER
89305
SCREW
2846
WASHER
2449
LOCKWASHER
1265
NUT
72481
FUSE
101954
CORD ASSEMBLY
105100
GROMMET
105305
CONDENSER
95841
SCREW
2669
LOCKWASHER
101945
RESISTOR
91280
TERMINAL
105398
SCREW
111049
WASHER
2669
LOCKWASHER
97492
NUT
101939
CONDENSER
95281
SCREW
2669
LOCKWASHER
97492
NUT
105098
BRACKET (L)
105099
BRACKET (R)
95281
SCREW
2669
LOCKWASHER
97492
NUT
111050
SCREW
105988
SPACER
34432
WASHER
2669
LOCKWASHER
97492
NUT
103052
BASE PLATE
95841
SCREW
2669
LOCKWASHER
97492
NUT
103051
COVER
6796
SCREW

Teletype Corporation
Chicago, Illinois, U.S.A.

DESCRIPTION, ADJUSTMENTS, AND ORDERING INFORMATION TELETYPE MODEL REC19 RECTIFIER

DESCRIPTION

The model REC19 rectifier is designed to deliver continously .6 ampere at 120 volts D.C. when operated on a 105 to 125 volt 25 cycle A.C. single phase power supply. The direct current output of this rectifier is satisfactory for the operation of Teletype perforator punch magnets but it is NOT suitable for use in the signaling, local relay, or selector magnet circuits of Teletype apparatus.

The rectifier consists essentially of a transformer, a full wave rectifying assembly utilizing selenium coated discs, a condenser for correcting the power factor, a filter consisting of a choke and a condenser, and a bleeder resistor. These parts are mounted on a metal base which is provided with feet. The rectifier is furnished complete with cover, cords, plug, and receptacle for making A.C. and D.C. connections.

The metal cover, which is fastened to the base by means of screws, is finished in black wrinkle enamel.

The approximate dimensions of the rectifier are as follows: length, 11-7/8"; depth 8-1/2"; height 8".

RATING

Input: 105 to 125 volts, 25 cycles A.C., single phase.
Output: 0.6 ampere at 120 volts D.C.
No load D.C. voltage when new: Not over 145 volts.
A.C. component in D.C. output voltage not more than 6 volts R.M.S. at .6 ampere load.

ADJUSTMENTS

The secondary of the transformer is provided with taps so that the output voltage of the rectifier can be adjusted to suit requirements and to compensate for voltage drop resulting from aging of the rectifying assembly. These taps are equipped with leads which connect to eight terminals on a panel. Three terminals provided coarse voltage adjustment and are labeled L, M, and H. Five terminals provide fine voltage adjustment and are labeled 1, 2, 3, 4, and 5. Connections to these terminals are made by means of pin plugs or spade terminals attached to flexible leads. The plugs or terminals are connected, at the factory, to terminals M and either 1, 2, or 3 to deliver .6 ampere at 120 volts D.C.

The method normally employed in checking the D.C. output of this rectifier is to disconnect all apparatus from the D.C. side and to connect a 60 watt lamp in series with a suitable ammeter across the output. For correct adjustment of the output, the flexible leads should be connected to those taps which will cause the ammeter to register a current flow which is nearest but not less than 0.5 ampere. This adjustment should be checked when

the rectifier is installed and periodically thereafter. The amount of aging will be somewhat greater during the first few months of use. After this, the rectifier should operate for long periods without the necessity of readjustment.

If at any time it is necessary to use the maximum regulating taps to obtain the proper output current, the rectifier should be withdrawn from service and repaired.

Wiring diagram W.D. 2050 which forms a part of this specification shows the actual and schematic wiring of this rectifier. An assembly drawing is also furnished showing names and Teletype part numbers of the component parts of the rectifier.

* * *

WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
R	RED
W	WHITE
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REVISIONS
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(B) 2-15-44 33447
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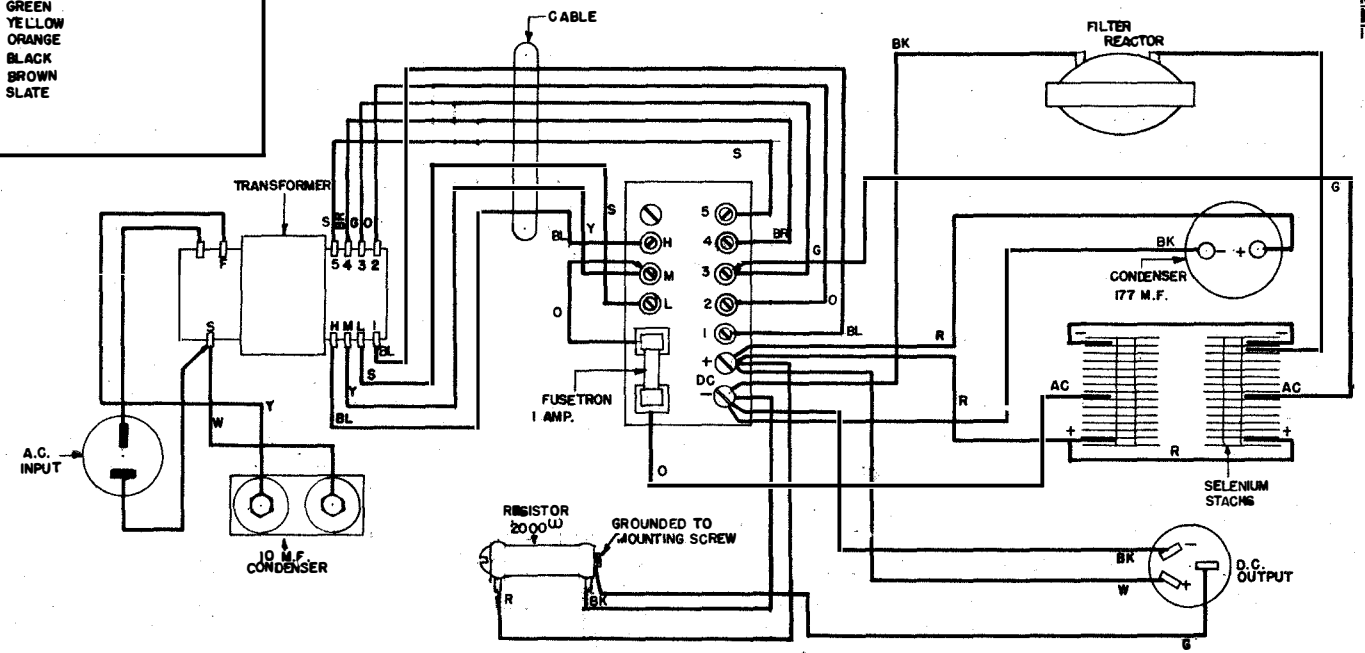
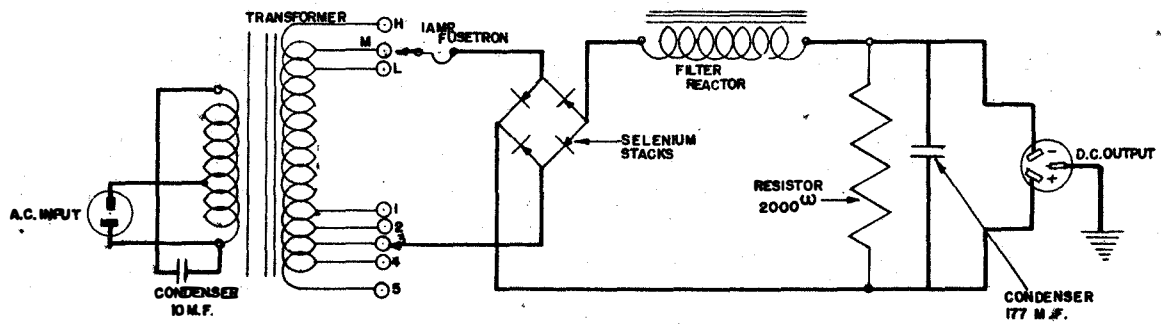
(E) 4-12-45 37540



ACTUAL



SCHEMATIC

WD-2050 E
10-16-41

WIRING DIAGRAM
RECII & RECI9
RECTIFIERS

DRAWN A.G.C.	APPROVED
ENG'RD B.W.	

FILE. 19-33AAA

TELETYPE CORPORATION

BARRY CHAPMAN - W4IBI
223 North 38 Street
Paducah, Kentucky