

37 ELECTRICAL SERVICE UNITS

WIRING DIAGRAMS

1. GENERAL

- 1.001 This addendum is issued to add 8365WD, Analysis Chart for Model 37 Control Panel Arrangements, to the wiring diagrams in Section 574-322-400, Issue 1, November 1970. The arrow in the margin indicates the addition.
- 1.002 Insert attached page in accordance with filing instructions. Insert the wiring diagram in its proper numerical sequence.

Attached:  
Page 1 dated November 1970, revised  
Wiring Diagrams:  
8365WD dated June 1970, added

37 ELECTRICAL SERVICE UNITS

WIRING DIAGRAMS

1. GENERAL

1.01 This section is issued to provide the actual wiring diagrams for the 37 electrical service units. Notes included on the diagrams explain the symbols used or point out special conditions that should be observed.

1.02 The wiring diagram index gives a numerical summary of the actual wiring diagrams that pertain to the various electrical

service units. The wiring diagrams that pertain to the associated power supplies, and utility strips are also included in the index.

1.03 All schematic wiring diagrams and circuit descriptions that pertain to the electrical service units, and their associated circuit cards can be found in the appropriate BSTSEA (Bell System Teletypewriter Station Engineering Arrangements) plan.

2. WIRING DIAGRAM INDEX

UNIT	WIRING DIAGRAM	POWER SUPPLY	UTILITY STRIP	APPLICATION
803	8355WD	—	—	TAPE MODULE (R-T)
805	8353WD	8359WD	8361WD	KSR/ASR
806	8929WD	8359WD	8361WD	KSR/ASR
807	8353WD	8359WD	8361WD	KSR/ASR
809	8353WD	8359WD	8361WD	KSR/ASR
814	8796WD	8786WD	—	ROTR
815	8931WD	8786WD	—	RO
ALL	8365WD	—	—	CONTROL PANEL



# 8365WD

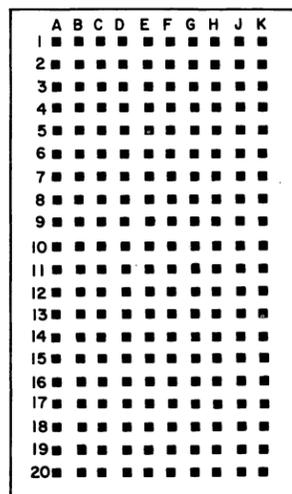
## REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-30-68	19568-R
2	1-15-69	96482
3	2-24-69	96867
4	5-15-69	99159

NOTE:  
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD WHICH IS A PART OF THIS DRAWING.

1. COLOR CODE:  
BK-BLACK R-RED  
BR-BROWN S-SLATE  
BL-BLUE P-PURPLE  
G-GREEN Y-YELLOW  
O-ORANGE W-WHITE
2. N.O. - NORMALLY OPEN  
N.C. - NORMALLY CLOSED  
L - LAMP
3. ASSOCIATED CABLE ASSEMBLIES: 326571 B  
327807.
4. IN ARRANGEMENTS THAT USE 3 CABLES, A 327807 CABLE ASSEMBLY MUST BE ORDERED SEPERATELY.
5. IN ARRANGEMENTS WHERE 2 CABLES ARE SUPPLIED, BUT ONLY ONE SWITCH IS USED, SPARE CABLE TO BE TIED BACK INTO CABINET.
6. POWER CONNECTIONS FOR 327807 CABLES:
- | CABLE | WIRE COLOR | WIRING FIELD TERMINAL NO. |
|-------|------------|---------------------------|
| A     | BK         | C12                       |
|       | G          | A12                       |
| B     | BK         | C13                       |
|       | G          | A12                       |
| C     | BK         | C14                       |
|       | G          | A13                       |
7. PROGRAMMING:  
1. THE STANDARD ARRANGEMENTS ARE AS FOLLOWS.
- | TELETYPEWRITER SET | ARRANGEMENT |
|--------------------|-------------|
| RO                 | 2           |
| KSR                | 5           |
| ASR                | 10          |
2. TO CHANGE ARRANGEMENTS  
1. DETERMINE FUNCTION REQUIRED  
A. USING SHEETS 2,3,4,5 FIND LOCATION OF FUNCTION ON WIRING FIELD.  
B. ASSIGN POSITION TO FUNCTION SELECTED ON CONTROL PANEL.  
C. FROM SHEETS 2,3,4, DETERMINE COLOR CODE OF WIRES PER SELECTION IN B.  
D. CONNECT WIRES TO TERMINAL BOARD TBIII, IN ACCORDANCE WITH DATA OF A.
8. SEE SHEET 6 FOR R-T CONTROL PANEL ARRANGEMENTS. ARRANGEMENT NO. 1 IS THE STANDARD R-T ARRANGEMENT. TO CHANGE R-T ARRANGEMENTS FOLLOW THE PROCEDURE OUTLINED IN NOTE 7 SECTION 2, USING SHEET 6 FOR WIRING INFORMATION.
9. ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
10. POWER CONNECTIONS FOR 326571 CABLE:
- | WIRE COLOR | WIRING FIELD TERMINAL NO. |
|------------|---------------------------|
| G          | B12                       |
| G-BR       | B14                       |
| G-BL       | B14                       |
| BK         | C10                       |
11. \* TWO LETTER SUFFIX DENOTES ELECTRICAL SERVICE UNIT VARIATION.
12. ASSOCIATED (327807) CABLE ASSEMBLIES TO BE LABELLED NEAR CONNECTOR AS FOLLOWS:
- | CABLE LOCATION | PART NO. |
|----------------|----------|
| A              | 79267 RM |
| B              | 79268 RM |
| C              | 79269 RM |
13. WHEREVER TWO TERMINATIONS ARE INDICATED IN ONE SQUARE, CONNECT THEM WITH STRAP 327842. ATTACH THE CONTROL PANEL WIRE TO THE UPPER TERMINATION.
14. KEY TO CORNER SHADING:
- ASSEMBLE THE CONTROL PANEL LENS WITH A 330545 RED TAB.
  - ASSEMBLE THE CONTROL PANEL LENS WITH A 330547 GREEN TAB.

FIGURE 1  
326566  
WIRING FIELD  
(TBIII RO, KSR, ASR)  
(TBII2 R-T)



VIEWED FROM CARD SIDE OF SERVICE UNIT.

FIGURE 2  
327807  
CABLE ASSEMBLY

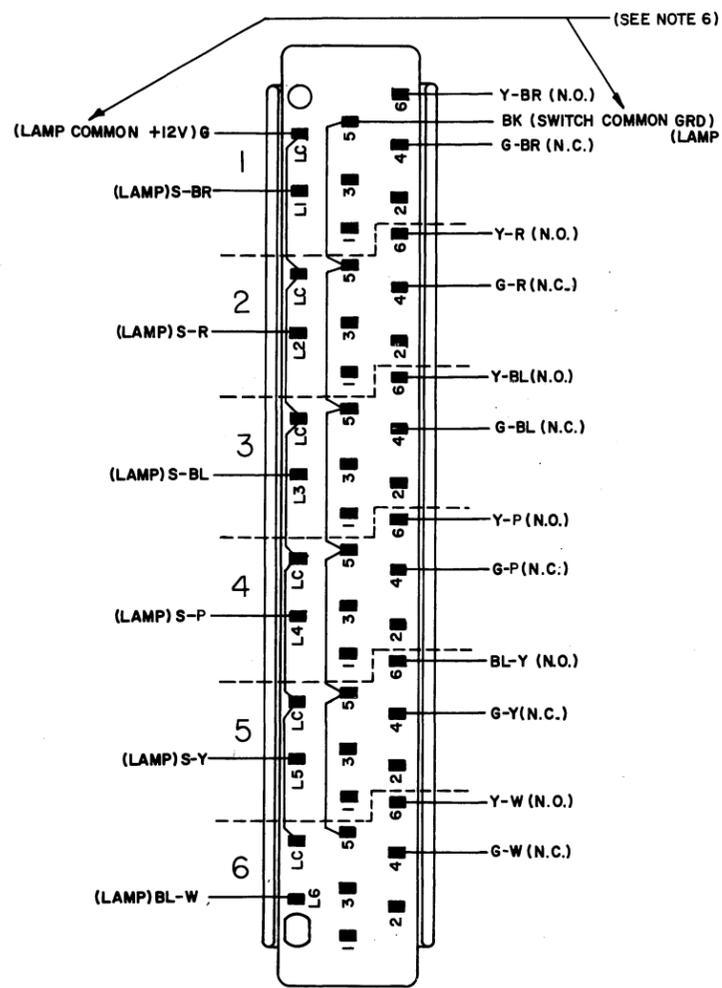


FIGURE 3  
326571  
CABLE ASSEMBLY  
(R-T ONLY)

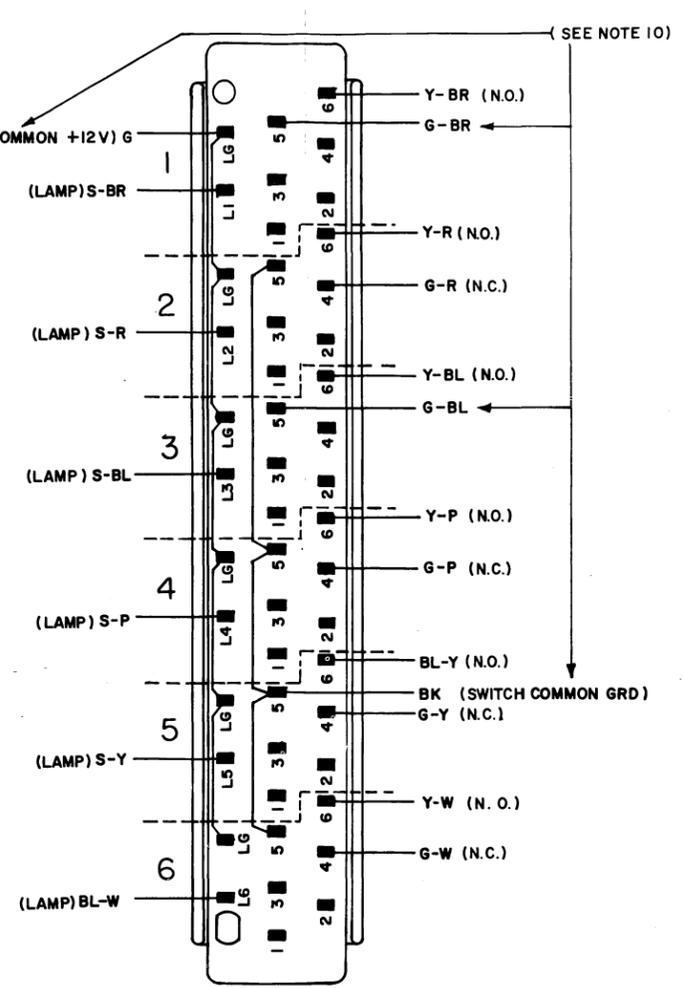


FIGURE 4  
(VIEWED FROM FRONT OF UNIT)

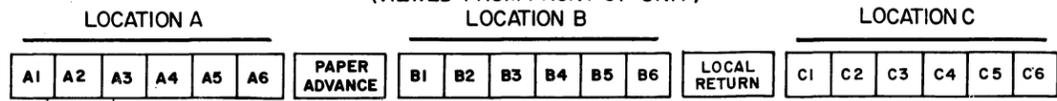
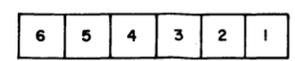


FIGURE 5  
(VIEWED FROM TOP OF R-T)



SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W/D

SHEET 1

ANALYSIS CHART FOR MODEL 37 CONTROL PANEL ARRANGEMENTS

APPROVALS

D AND R	E OF M
---------	--------

E-NUMBER

PROD. NO. 8365WD

DATE 4-18-68

P.D. FILE NO. G-A354AA

DRAWN RJP CHKD. [Signature]

ENG. M JR APPD. [Signature]

TELETYPE CORPORATION

# 8365WD



8365WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-30-68	19568-R
2	1-15-69	96482
3	2-24-69	96867
4	5-15-69	99159
5	4-14-70	94
6	10-7-70	874

NOTE:  
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

WIRING FIELD CONNECTIONS FOR YESU 807  
(SEE FIGURES 1&2)

SEE SHEET 1 FOR NOTES.  
\*REFER TO NOTE 15

NOTE 12

CABLE LOCATION  
POSITION NO.  
FUNCTION (SEE NOTE 2)  
WIRE COLOR  
WIRING ARRANGEMENT  
APPROPRIATE MARKINGS NO.  
(SEE SHEET 5)  
REMARKS

REMARKS	CABLE LOCATION POSITION NO. FUNCTION (SEE NOTE 2) WIRE COLOR WIRING ARRANGEMENT APPROPRIATE MARKINGS NO. (SEE SHEET 5) REMARKS	A																		B																		C																								
		A1			A2			A3			A4			A5			A6			B1			B2			B3			B4			B5			B6			C1			C2			C3			C4			C5			C6									
		N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L													
		Y-BR	G-BR	S-BR	Y-R	G-R	S-R	Y-BL	G-BL	S-BL	Y-P	G-P	S-P	BL-Y	G-Y	S-Y	Y-W	G-W	BL-W	Y-BR	G-BR	S-BR	Y-R	G-R	S-R	Y-BL	G-BL	S-BL	Y-P	G-P	S-P	BL-Y	G-Y	S-Y	Y-W	G-W	BL-W	Y-BR	G-BR	S-BR	Y-R	G-R	S-R	Y-BL	G-BL	S-BL	Y-P	G-P	S-P	BL-Y	G-Y	S-Y	Y-W	G-W	BL-W							
	6,7	AA	K9	K10	K8	E9	F9	D9	E10	F10	D10	E8	F8	D8	H8	J8	G8																																													
SEE NOTE 4	8,9	AB	C8	C9	-	E11	F11	D11	-	-	-	E13	-	-	-	-	-	K12	K13	K11	K9	K10	K8	E9	F9	D9	E10	F10	D10	E8	F8	D8	H8	J8	G8																											
SEE NOTE 13	5,10,15	AC	K12	K13	K11	H8	J8	G8	E8	F8	D8	E10	F10	D10	E9	F9	D9	K9	K10	K8																																										
	11	AD	H11	J11	G11	J14	K14	H14	-	-	-	-	-	-	D11	-	-	F13	K9	K10	K8	E9	F9	D9	E10	F10	D10	E8	F8	D8	H8	J8	G8	-	-	*	D14	-	-	H13	-	G13	C8	C9	C10	H12	J12	G12	G12	-	-	D12	-	-	K4							
	18	AH	F13	-	-	-	-	-	D11	-	-	F11	J10	-	C8	-	-	-	K12	K13	K11	K9	K10	K8	E9	F9	D9	E10	F10	D10	E8	F8	D8	H8	J8	G8	-	-	-	C9	H12	J12	G12	H13	-	G13	-	-	*	-	-	D12	-	-	K4							
	19	AJ	F13	-	-	-	-	-	D11	-	-	F11	J10	-	C8	-	-	-	-	-	-	K9	K10	K8	E9	F9	D9	E10	F10	D10	E8	F8	D8	H8	J8	G8	-	-	-	C9	H12	J12	G12	H13	-	G13	-	-	*	-	-	D12	-	-	K4							
	20	AE	F13	-	-	-	-	-	D11	-	-	F11	J10	-	C8	-	-	H8	J8	G8																																										

WDP

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.  
SHEET 3

ANALYSIS  
CHART  
FOR  
MODEL 37  
CONTROL  
PANEL  
ARRANGEMENTS

APPROVALS  
D AND R: *HJK*  
E OF M: *[Signature]*

E-NUMBER  
PROD. NO. 8365WD  
DATE 4/18/68  
P.D. FILE NO. G-A354AA  
DRAWN REG CHKD *[Signature]*  
ENG. MJR APPD *[Signature]*

TELETYPE CORPORATION  
8365WD

8365WD

NOTE  
REVISION INFORMATION MUST ALSO BE  
REFLECTED ON THE ISSUE CONTROL REC-  
ORD WHICH IS A PART OF THIS DRAWING.

WIRING FIELD CONNECTIONS FOR YESU 809  
(SEE FIGURES 1&2)

SEE SHEET 1 FOR NOTES.  
\* REFER TO NOTE 15

NOTE 12

CABLE LOCATION  
POSITION NO.  
FUNCTION (SEE NOTE 2)  
WIRE COLOR  
WIRING ARRANGEMENT  
APPROPRIATE MARKINGS NO.  
(SEE SHEET 5)

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-30-68	19568-R
2	2-24-69	96867
3	5-15-69	99159
4	6-19-69	99306
5	4-14-70	94
6	10-7-70	874

REMARKS.

1	AA
2	AB
12	AC
13	AD
21	AE

A						B						C												
A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6							
N.C.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L	N.O.	N.C.	L							
Y-BR	G-BR	S-BR	Y-R	G-R	S-R	Y-BL	G-BL	S-BL	Y-P	G-P	S-P	BL-W	Y-BR	G-BR	S-BR	Y-R	G-R	S-R						
						C8	C9	-	E13	*	H12	J12	G12	H13	-	G13	-	D12	-	D13				
						C8	C9	-	H8	J8	G8	E13	-	-	-	*	H13	-	D12	-	D13			
						H8	J8	G8	-	-	F13	D14	-	-	H13	-	G13	H12	J12	G12	-	D12		
						C8	C9	-	E13	-	H8	J8	G8	-	-	*	H13	-	D12	-	D13			
						H8	J8	G8	-	-	F11	H12	J12	G12	-	-	C9	H13	-	D12	G13	C8	-	-

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 4

ANALYSIS  
CHART  
FOR  
MODEL 37  
CONTROL  
PANEL  
ARRANGEMENTS

APPROVALS

D AND R	E OF M
---------	--------

E-NUMBER

PROD. NO. 8365WD

DATE 4/18/68

P.D. FILE NO. G-A354AA

DRAWN REG CHKD. *[Signature]*

ENG. MJR APPD. *[Signature]*

TELETYPE CORPORATION

8365WD

SEE SHEET 1 FOR NOTES.  
\* REFER TO NOTE 15

CONTROL PANEL MARKINGS  
FOR YESU 805,06,07,09  
(SEE FIGURE 4)

NOTE:  
REVISION INFORMATION MUST ALSO BE  
REFLECTED ON THE ISSUE CONTROL REC-  
ORD, WHICH IS A PART OF THIS DRAWING.

8365WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-30-68	19568-R
2	1-15-69	96482
3	5-15-69	99159
4	6-19-69	99306
5	2-4-70	99993
6	3-25-70	173
7	4-14-70	94
8	10-7-70	874

NOTE II

POSITION NO.

MARKINGS NO.	ASSOC. YESU NO.	WRING ARR'G'T	SET TYPE	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
1	809/--	AA	RO							INTRPT *	OUT OF SERVICE	ERROR	PAPER ALARM	PTR EOL							
2	809/--	AB	RO							INTRPT	OFF LINE	HERE IS *	ALARM	PTR EOL							
3	805/--	AA	KSR							INTRPT	HERE IS	OFF LINE	OUT OF SERVICE	ALARM	PTR EOL						
4	805/--	AB	KSR	INTRPT	PROCEED		HERE IS		OFF LINE								OUT OF SERVICE	ERROR *	PAPER ALARM	PTR EOL	
5	805/-- 807/--	AC AC	KSR		OFF LINE											INTRPT	PROCEED	HERE IS *	ALARM	PTR EOL	
7	807/--	AA	ASR	PUNCH ON	PUNCH LOCAL	READER LOCAL	PRINTER LOCAL	KBD LOCAL								INTRPT	HERE IS	PROCEED *	KBD EOL	PAPER ALARM	PTR EOL
9	807/--	AB	ASR	INTRPT	PROCEED		HERE IS		READER AUTO	PUNCH ON	PUNCH LOCAL	READER LOCAL	PRINTER LOCAL	KBD LOCAL *			OUT OF SERVICE	ERROR *	KBD EOL	PAPER ALARM	PTR EOL
10	807/--	AC	ASR	READER AUTO	KBD LOCAL	PRINTER LOCAL	READER LOCAL	PUNCH LOCAL	PUNCH ON							INTRPT	PROCEED	HERE IS *	KBD EOL	ALARM	PTR EOL
11	807/--	AD	ASR	SINGLE BID	REPEAT BID			SEND	RECEIVE	PUNCH ON	PUNCH LOCAL	READER LOCAL	PRINTER LOCAL	KBD LOCAL		BUZZER OFF	ERROR	SEND ALARM	OUT OF SERVICE	PAPER OUT	EOL
12	809/--	AC	RO							OFF LINE	RECEIVE	BUZZER OFF	ERROR	OUT OF SERVICE	PAPER OUT						
13	809/--	AD	RO							INTRPT		OFF LINE *	ALARM	EOL							
14	805/--	AD	KSR							INTRPT	PROCEED	OFF LINE *	ALARM	EOL							
15	807/--	AC	ASR		KBD LOCAL	PRINTER LOCAL	READER LOCAL	PUNCH LOCAL	PUNCH ON							INTRPT	PROCEED	* KBD EOL	ALARM	PTR EOL	
16	806/--	AF	ASR	PAPER ALARM				OFF LINE	PUNCH ON							ON LINE	UNATT				EOL
17	806/--	AG	ASR	PAPER ALARM		AUX RCVR		OFF LINE	PUNCH ON							ON LINE	UNATT		REC'V ON PUNCH		EOL
18	807/--	AH	ASR	ORIG	SEND	RECEIVE	CLEAR	INTRPT		READER AUTO	PUNCH ON	PUNCH LOCAL	READER LOCAL	PRINTER LOCAL	KBD LOCAL	CARRIER FAIL	OUT OF SERVICE	ERROR *	PAPER ALARM	EOL	
19	807/--	AJ	ASR	ORIG	SEND	RECEIVE	CLEAR	INTRPT			PUNCH ON	PUNCH LOCAL	READER LOCAL	PRINTER LOCAL	KBD LOCAL	CARRIER FAIL	OUT OF SERVICE	ERROR *	PAPER ALARM	EOL	
20	805/-- 807/--	AE	KSR	ORIG	SEND	RECEIVE	CLEAR	INTRPT	OFF LINE							CARRIER FAIL	OUT OF SERVICE	ERROR *	PAPER ALARM	EOL	
21	809/--	AE	RO							OFF LINE	RECEIVE	OUT OF SERVICE	CARRIER FAIL	ALARM	INTRPT.						

WDP

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 5

ANALYSIS CHART FOR MODEL 37 CONTROL PANEL ARRANGEMENTS

APPROVALS

D AND R *HJK* E OF M *[Signature]*

E-NUMBER  
PROD. NO. 8365WD

DATE 4/18/68  
P.D. FILE NO. G-A354AA  
DRAWN REG CHKD. *[Signature]*  
ENGD. MJR APPD. *[Signature]*

TELETYPE CORPORATION

8365WD

SEE SHEET 1 FOR NOTES.

R-T  
WIRING FIELD CONNECTIONS  
(YESU 803)  
(SEE FIGURES 1&3)

POSITION NO.  
FUNCTION (SEE NOTE 2)  
WIRE COLOR  
WIRING ARRANGEMENT  
APPROPRIATE MARKINGS NO.  
(SEE R-T MARKINGS CHART)  
REMARKS

6			5			4			3			2			1				
N.O.	N.C.	L.	N.O.	N.C.	L.	N.O.	N.C.	L.	N.O.	N.C.	L.	N.O.	N.C.	L.	N.O.	N.C.	L.		
Y-W	G-W	BL-W	BL-Y	G-Y	S-Y	Y-P	G-P	S-P	Y-BL	S-BL	Y-R	G-R	S-R	Y-BR	S-BR				
1	AA	E9	F9	D9	E10	F10	D10		E14	F14	D14	E13		D13	E12	F12	D12	E11	D11
2	AB	E9	F9	D9	E10	F10	D10		E14	F14	D14	E13		D13	E12	F12	D12	E11	D11

SEE NOTE 10

R-T  
CONTROL PANEL MARKINGS  
(YESU 803)  
(SEE FIGURE 5)

NOTE:  
REVISION INFORMATION MUST ALSO BE  
REFLECTED ON THE ISSUE CONTROL REC-  
ORD. WHICH IS A PART OF THIS DRAWING.

NOTE 11			POSITION NO.					
MARKINGS NO.	ASSOC. YESU NO.	WIRING ARRGT	6	5	4	3	2	1
1	803/--	AA	TAPE ALARM	READER STEP				PUNCH BACK SPACE
2	803/--	AB	TAPE ALARM	READER STEP	READER ON			PUNCH BACK SPACE

8365WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-30-68	19568-R
2	1-15-69	96482
3	3-24-70	173
4	6-12-70*	567

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 6

ANALYSIS CHART FOR MODEL 37 CONTROL PANEL ARRANGEMENTS

APPROVALS

D AND R	E OF M
---------	--------

E-NUMBER

PROD. NO. 8365WD

DATE 4-18-68

P.D. FILE NO. G-A354AA

DRAWN REG CHKD

ENGD. M.J.R. APPD.

TELETYPE CORPORATION

8365WD

8365 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	4-15-70	94

NO. NOTES

15. TO IMPLEMENT THE PRINTED GRAPHICS EXTENSION LAMP INDICATION THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED:

(A) DETERMINE THE CONTROL PANEL MARKINGS AND WIRING ARRANGEMENT PRESENTLY IN THE SET FROM SHEET 5 OF 8365 WD. THE ASTERISK SHOWN INDICATES THE PREFERRED LOCATION OF THE SHIFT-OUT LAMP INDICATOR.

(B) WITH THE LOCATION DETERMINED THE APPROPRIATE CABLE NUMBER AND WIRE COLOR CAN BE FOUND ON SHEETS 2,3 AND 4 OF 8365WD. CONNECT THIS WIRE TO TB111-E18. IN SOME CONTROL PANEL ARRANGEMENTS IT MAY BE NECESSARY TO COMBINE THE "KBD EOL" LAMP AND "PTR EOL" LAMP THIS SHOULD BE DONE IN THE FOLLOWING MANNER:

- 1 DISCONNECT BL-W WIRE OF CABLE C FROM TB111-D13.
- 2 DISCONNECT S-P WIRE OF CABLE C FROM TB111-K4; TIE TO TB111-E18.
3. CONNECT BL-W WIRE OF CABLE C TO TB111-K4.
- 4 CHANGE IDENTIFICATION LABEL FROM "PTR EOL" TO "KBD.EOL"

(C) USING THE STRAP PROVIDED (327842), CONNECT TB111-F17 TO TB111-F18

(D) COMPLETE THE PROCEDURE BY INSTALLING THE IDENTIFICATION LABEL IN THE APPROPRIATE LAMP POSITION

(E) TO REMOVE THIS MODIFICATION KIT, REVERSE THE STEPS ABOVE

SHEET 1A

WDP

ANALYSIS CHART FOR MODEL 37 CONTROL PANEL ARRANGEMENTS.

APPROVALS

D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
-------------------------------	------------------------------

E-NUMBER

PROD. NO. 8365 WD.

DATE 1-19-70

P.D. FILE NO. G-A354AA

DRAWN W/PB	CHKD.
ENGD. M.J.R	APPD.

TELETYPE CORPORATION

8365 WD